

MARSH LAULIE

Addison!

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Town of Addison 16801 Westgrove Dr. P.O. Box 9010, Addison, Texas 75001-9010

DATE -

6/20/01

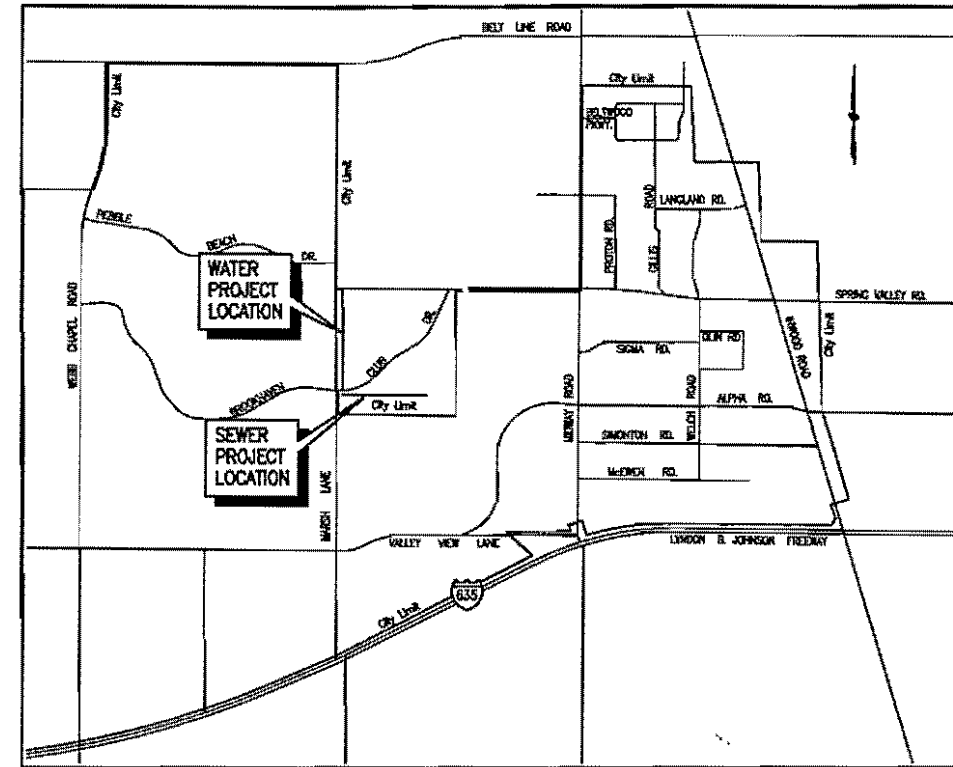
THESE ARE THE LATEST
PLANS FOR THIS PROJECT.

THE SEWER HAS BEEN
RE-DESIGNED. YOUR REVIEW
IS APPRECIATED. THANKS!

Steve C.

Addison!

CONSTRUCTION PLANS FOR MARSH LANE WATER LINE & BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE



LOCATION MAP

SHEET INDEX

SHEET DESCRIPTION	SHEET NO.
MARSH LANE WATER LINE STA. 0+00 TO 5+00	1
MARSH LANE WATER LINE STA. 5+00 TO 10+00	2
MARSH LANE WATER LINE STA. 10+00 TO 15+00	3
MARSH LANE WATER LINE STA. 15+00 TO 20+00	4
MARSH LANE WATER LINE STA. 20+00 TO 23+70.59/ ADDISON ROAD STORM SEWER IMPROVEMENTS	5
BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE STA. 0+00 TO 5+00	6
BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE STA. 5+00 TO 10+00	7
BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE STA. 10+00 TO 13+79.76	8
AREA ENLARGEMENTS AND NOTES	9
BROOKHAVEN CLUB DR. EXIST. SANITARY SEWER LINER STA. 0+00 TO 5+00	10
BROOKHAVEN CLUB DR. EXIST. SANITARY SEWER LINER STA. 5+00 TO 10+00	11
BROOKHAVEN CLUB DR. EXIST. SANITARY SEWER LINER STA. 10+00 TO 12+10.43	12
ACCESS AND STORAGE AREA	13
ACCESS AND STORAGE AREA	14
GENERAL NOTES & DETAILS	15
DETAILS	16
DETAILS	17

PRELIMINARY

FOR INTERIM REVIEW

NOT FOR CONSTRUCTION
NOT FOR BIDDING
NOT FOR PERMIT PURPOSES

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.

DATE: _____

CITY COUNCIL

R. SCOTT WHEELER, MAYOR
DIANE MALLORY, MAYOR PRO TEM
FRANK R. KLEIN GLYNDA TURNER
BOB BARRETT FREDRIC SILVER
CATHY WAYS

CITY MANAGER

RON WHITEHEAD

CITY ENGINEER/
DIRECTOR OF PUBLIC WORKS

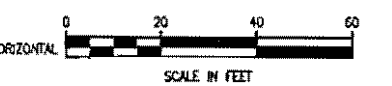
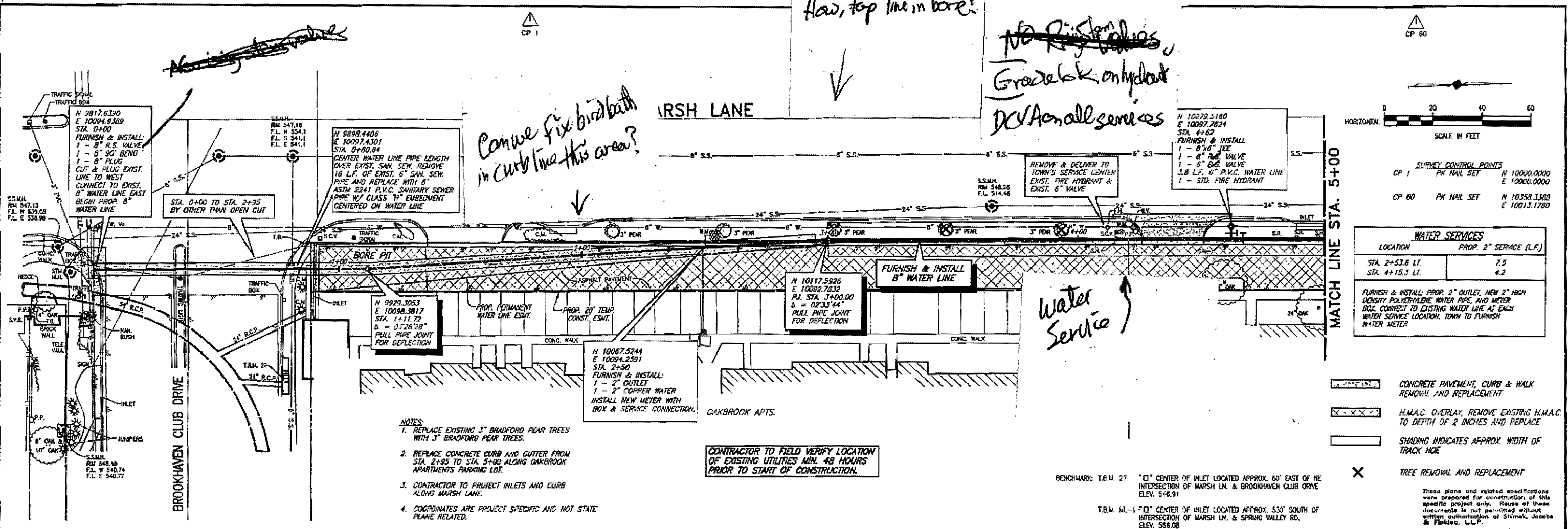
MICHAEL MURPHY, P.E.

CITY SECRETARY

CARMEN MORAN

BIRKHOFF, HENDRICKS & CONWAY, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas

JUNE, 2001



SURVEY CONTROL POINTS

CP 1	PK NAIL SET	N 10000.0000	E 10000.0000
CP 60	PK NAIL SET	N 10058.1369	E 10013.1780

WATER SERVICES

LOCATION	PROP. 2" SERVICE (L.F.)
STA. 2+53.6 LT.	7.5
STA. 4+15.3 LT.	4.2

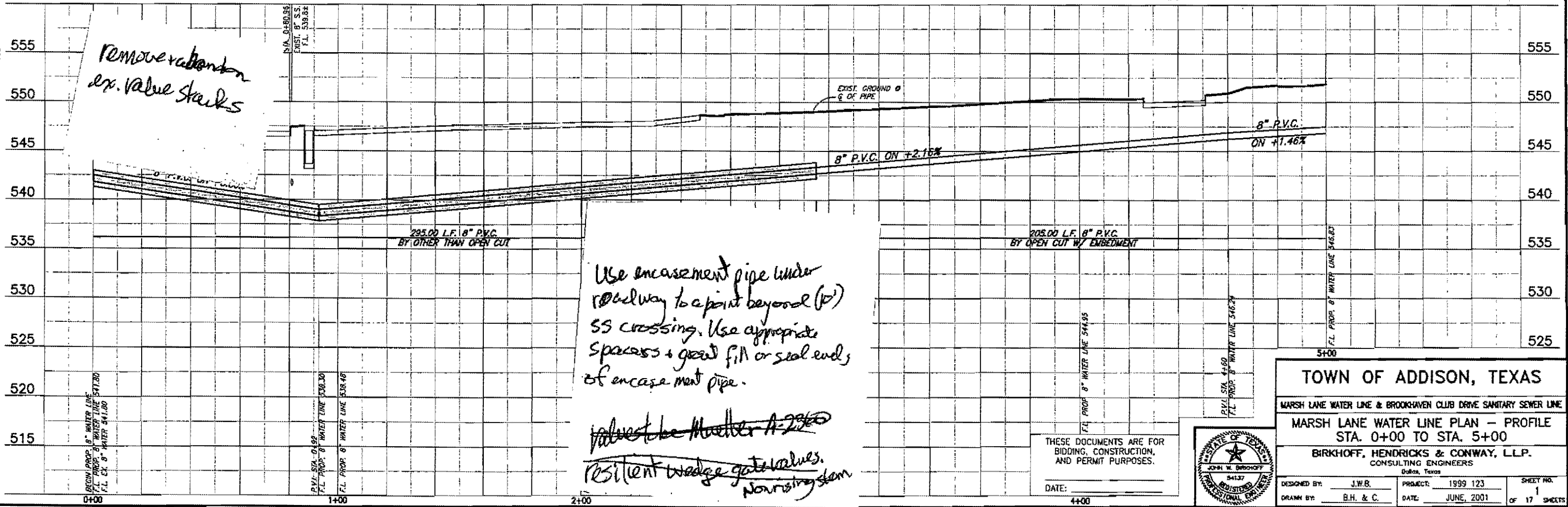
FURNISH & INSTALL: PROP. 2" OUTLET, NEW 2" HIGH DENSITY POLYETHYLENE WATER PIPE AND METER BOX. CONNECT TO EXISTING WATER LINE AT EACH WATER SERVICE LOCATION. TOWN TO FURNISH WATER METER.

- CONCRETE PAVEMENT, CURB & WALK REMOVAL AND REPLACEMENT
- H.M.A.C. OVERLAY, REMOVE EXISTING H.M.A.C. TO DEPTH OF 2 INCHES AND REPLACE
- SHADING INDICATES APPROX. WIDTH OF TRACK HOLE
- TREE REMOVAL AND REPLACEMENT

- NOTES**
- REPLACE EXISTING 3" BRADFORD PEAR TREES WITH 3" BRADFORD PEAR TREES.
 - REPLACE CONCRETE CURB AND GUTTER FROM STA. 2+95 TO STA. 5+00 ALONG OAKBROOK APARTMENTS PARKING LOT.
 - CONTRACTOR TO PROTECT INLETS AND CURB ALONG MARSH LANE.
 - COORDINATES ARE PROJECT SPECIFIC AND NOT STATE PLANE RELATED.

CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING UTILITIES MIN. 48 HOURS PRIOR TO START OF CONSTRUCTION.

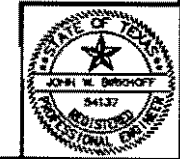
BENCHMARK: T.B.M. 27 "C" CENTER OF INLET LOCATED APPROX. 60' EAST OF NE INTERSECTION OF MARSH LN. & BROOKHAVEN CLUB DRIVE ELEV. 546.91
 T.B.M. WL-1 "C" CENTER OF INLET LOCATED APPROX. 530' SOUTH OF INTERSECTION OF MARSH LN. & SPRING VALLEY RD. ELEV. 566.08



Use encasement pipe under roadway to a point beyond (P) SS crossing. Use appropriate spacers & gravel fill or seal ends of encasement pipe.

valves to be Mueller A-2200 resilient wedge gate valves, non-rising stem

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.
 DATE: _____



TOWN OF ADDISON, TEXAS

MARSH LANE WATER LINE & BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE
 MARSH LANE WATER LINE PLAN - PROFILE
 STA. 0+00 TO STA. 5+00

BIRKHOFF, HENDRICKS & CONWAY, LLP.
 CONSULTING ENGINEERS
 Dallas, Texas

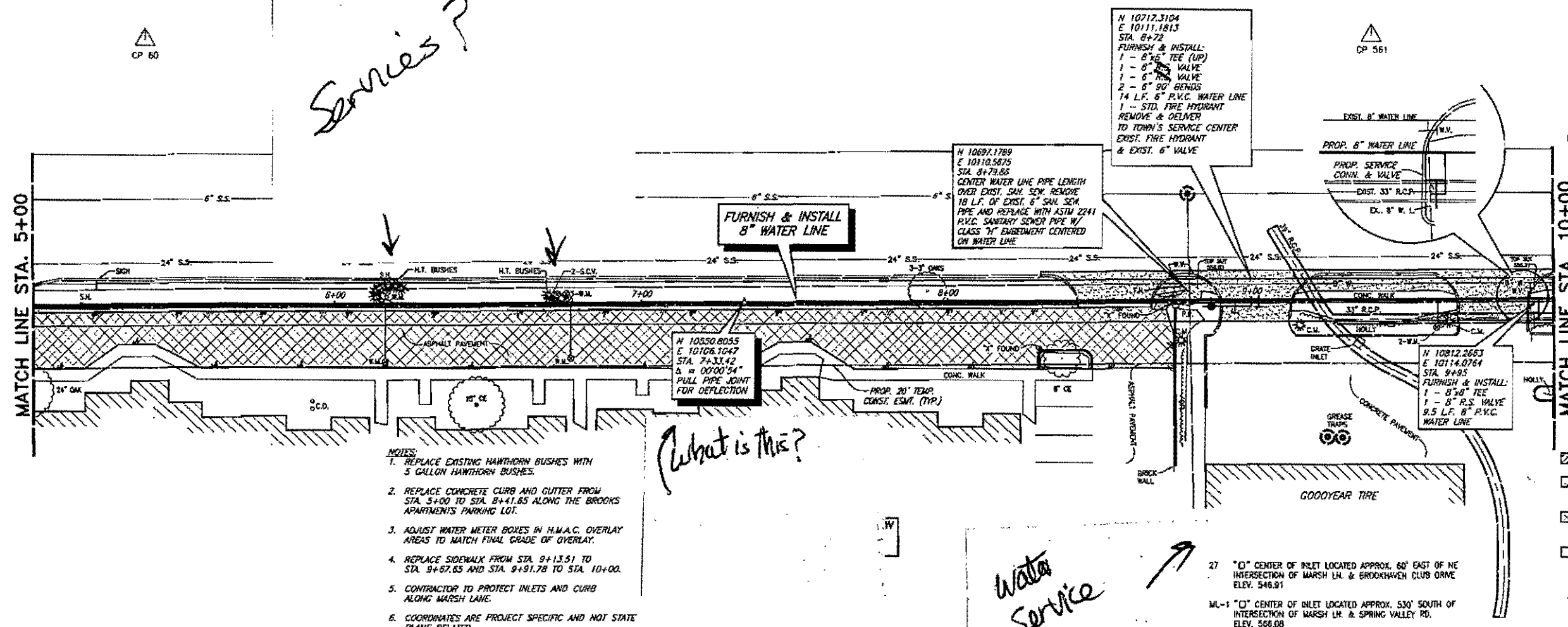
DESIGNED BY: J.W.B. PROJECT: 1999 123 SHEET NO. 1
 DRAWN BY: B.H. & C. DATE: JUNE, 2001 OF 17 SHEETS

REVISED 06/12/2010 A.C. 99123-01.DWG SCALE: 1"=70' BLOCKS: PRECISE

Services?

MATCH LINE STA. 5+00

MATCH LINE STA. 10+00



N 10712.3104
E 10111.1813
STA. 8+72
FURNISH & INSTALL:
1 - 8" TEE (UP)
1 - 8" VALVE
1 - 8" VALVE
2 - 8" 90° BENDS
14 L.F. 8" P.V.C. WATER LINE
1 - STD. FIRE HYDRANT
REMOVE & DELIVER
TO TOWN'S SERVICE CENTER
EXIST. FIRE HYDRANT
& EXIST. 6" VALVE

N 10697.1789
E 10110.5875
STA. 8+79.85
CENTER WATER LINE PIPE LENGTH
OVER EXIST. SAN. SEW. REMOVE
18 L.F. OF EXIST. 6" SAN. SEW.
PIPE AND REPLACE WITH ASTM 2241
P.V.C. SANITARY SEWER PIPE W/
CLASS "H" EMBEDEDMENT CENTERED
ON WATER LINE

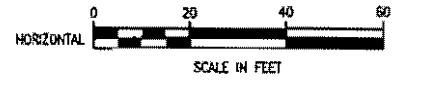
N 10550.8055
E 10106.1047
STA. 7+33.12
Δ = 0°00'54"
PULL PIPE JOINT
FOR DEFLECTION

N 10812.2653
E 10114.0764
STA. 9+95
FURNISH & INSTALL:
1 - 8" TEE
1 - 8" R.S. VALVE
9.5 L.F. 8" P.V.C.
WATER LINE

- NOTES:
1. REPLACE EXISTING HAWTHORN BUSHES WITH 5 GALLON HAWTHORN BUSHES.
 2. REPLACE CONCRETE CURB AND GUTTER FROM STA. 5+00 TO STA. 8+41.85 ALONG THE BROOKS APARTMENTS PARKING LOT.
 3. ADJUST WATER METER BOXES IN H.M.A.C. OVERLAY AREAS TO MATCH FINAL GRADE OF OVERLAY.
 4. REPLACE SIDEWALK FROM STA. 9+13.51 TO STA. 9+67.65 AND STA. 9+91.78 TO STA. 10+00.
 5. CONTRACTOR TO PROTECT INLETS AND CURB ALONG MARSH LANE.
 6. COORDINATES ARE PROJECT SPECIFIC AND NOT STATE PLANE RELATED.

What is this?

Water Service



SURVEY CONTROL POINTS

CP 60	PK NAIL SET	N 10358.3388	E 10013.1780
CP 561	PK NAIL SET	N 10759.8079	E 10025.8270

WATER SERVICES

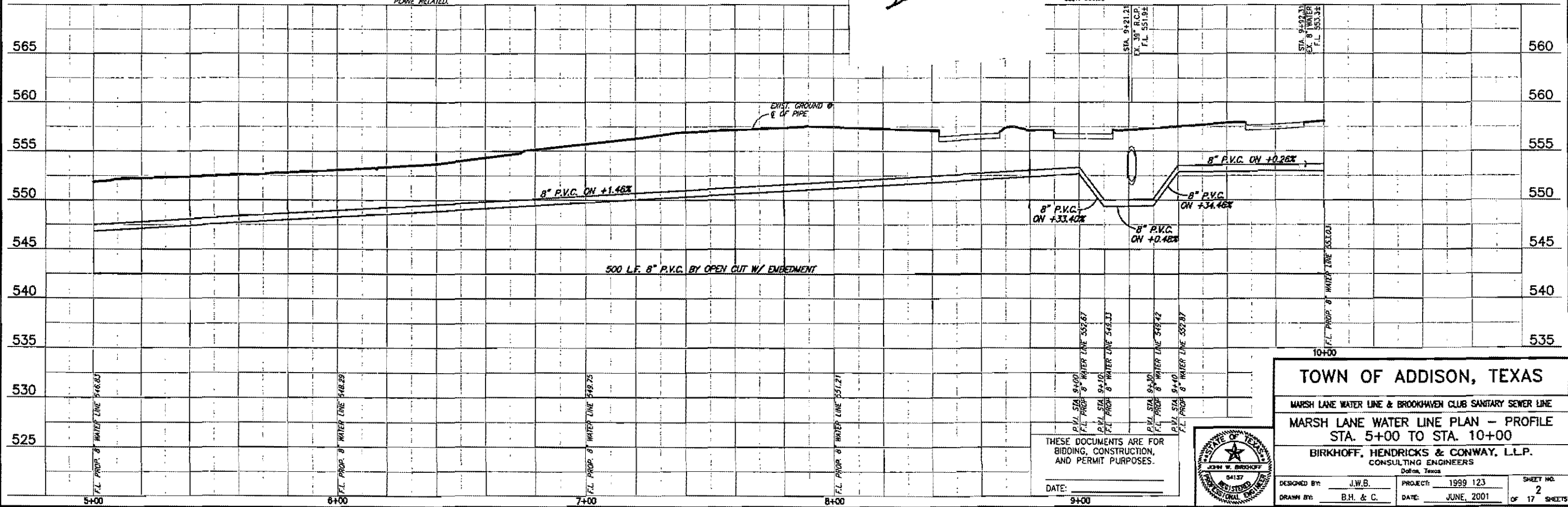
LOCATION	PROP. 2" SERVICE (L.F.)
STA. 6+14.7 LT.	5.3
STA. 6+16.5 RT.	18.1
STA. 6+76 RT.	2.2
STA. 6+77.4 LT.	17.1
STA. 9+61.4 RT.	8.4

FURNISH & INSTALL: PROP. 2" OUTLET, NEW 2" HIGH DENSITY POLYETHYLENE WATER PIPE AND METER BOX. CONNECT TO EXISTING WATER LINE AT EACH WATER SERVICE LOCATION TOWN TO FURNISH WATER METER.

- H.M.A.C. REMOVAL AND REPLACEMENT
- CONCRETE PAVEMENT, CURB & WALK REMOVAL AND REPLACEMENT
- H.M.A.C. OVERLAY, REMOVE EXISTING H.M.A.C. TO DEPTH OF 2 INCHES AND REPLACE
- SHADING INDICATES APPROX. WIDTH OF TRACK HOE

27 "O" CENTER OF INLET LOCATED APPROX. 60' EAST OF NE INTERSECTION OF MARSH LN. & BROOKHAVEN CLUB ORME ELEV. 546.91

ML-1 "O" CENTER OF INLET LOCATED APPROX. 530' SOUTH OF INTERSECTION OF MARSH LN. & SPRING VALLEY RD. ELEV. 566.08



TOWN OF ADDISON, TEXAS

MARSH LANE WATER LINE & BROOKHAVEN CLUB SANITARY SEWER LINE

MARSH LANE WATER LINE PLAN - PROFILE

STA. 5+00 TO STA. 10+00

BIRKHOFF, HENDRICKS & CONWAY, L.L.P.

CONSULTING ENGINEERS

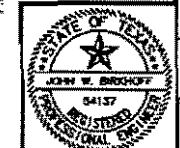
DESIGNED BY: J.W.B. PROJECT: 1999 123 SHEET NO. 2

DRAWN BY: B.H. & C. DATE: JUNE, 2001 OF 17 SHEETS

REVISION 06/12/01 J.C. 99123-02.0196 BLOCKS: PROFF 1/20 SCALE: 1"=20'

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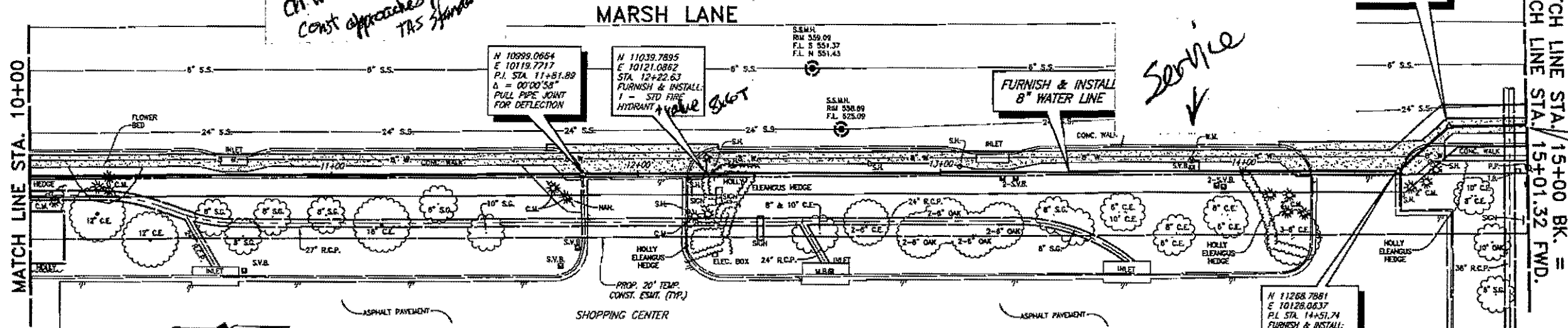
DATE: 9-4-00



ADA/TAS
ramps at all
drives w/sidewalks
const approaches per
TAS standards

Move hydrant
further from
drive radius

Service
↓



STATION EQUATION
N 11312.1886, E 10114.597
MATCH LINE STA. 15+00 BK. =
MATCH LINE STA. 15+01.32 FWD.

WATER SERVICES	
LOCATION	PROP. 2" SERVICE (L.F.)
STA. 13+83.4 LT.	5.1

FURNISH & INSTALL: PROP. 2" OUTLET, NEW 2" HIGH DENSITY POLYETHYLENE WATER PIPE, AND METER BOX. CONNECT TO EXISTING WATER LINE AT EACH WATER SERVICE LOCATION. TOWN OF ADDISON TO FURNISH WATER METER.



- NOTES:**
- CONTRACTOR SHALL RECONSTRUCT AND REPLACE FLOWER BEDS WITH LIKE PLANTS AND FLOWERS AS DIRECTED BY TOWN OF ADDISON. FLOWER BEDS SHALL COMPOSED OF 6" INCHES OF IMPORTED TOP SOIL FOR BEDDING PLANTS.
 - CONTRACTOR SHALL PROTECT INLETS AND CURB ALONG MARSH LANE.
 - REPLACE 5' SIDEWALK FROM STA. 10+00 TO STA. 11+81.25, STA. 12.16.78 TO STA. 14+22.25 AND STA. 14+51.74 TO STA. 14+68.77, 3.84' RT.
 - COORDINATES ARE PROJECT SPECIFIC AND NOT STATE PLANE RELATED.

CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING UTILITIES MIN. 48 HOURS PRIOR TO START OF CONSTRUCTION.

BENCHMARK: T.B.M. 27 "O" CENTER OF INLET LOCATED APPROX. 60' EAST OF NE INTERSECTION OF MARSH LN. & BROOKHAVEN CLUB DRIVE ELEV. 546.91
T.B.M. ML-1 "O" CENTER OF INLET LOCATED APPROX. 530' SOUTH OF INTERSECTION OF MARSH LN. & SPRING VALLEY RD. ELEV. 566.08

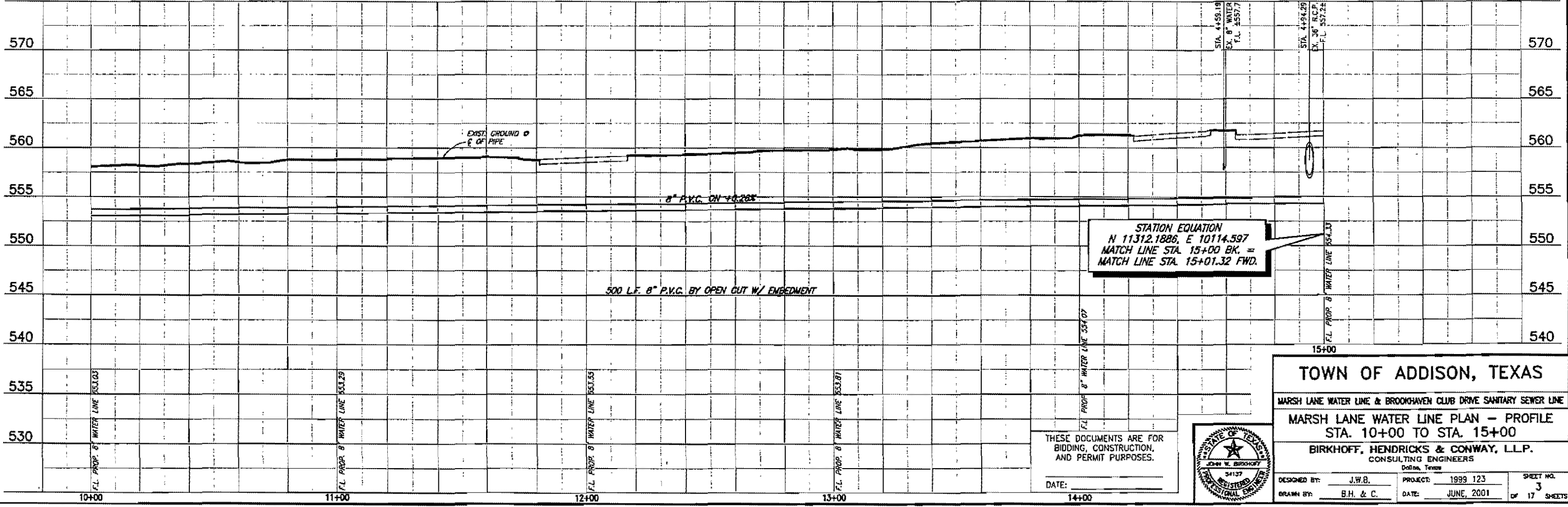
CONCRETE PAVEMENT, CURB & WALK REMOVAL AND REPLACEMENT
SHADING INDICATES APPROX. WIDTH OF TRACK HOE

These plans and related specifications were prepared for construction of this specific project only. Reuse of these documents is not permitted without written authorization of Shirkov, Jacobs & Finkeo, L.L.P.

SURVEY CONTROL POINTS

CP 829	PK NAIL SET	N 11207.0265	E 10038.2337
CP 830	PK NAIL SET	N 10940.2447	E 10179.0812

REVISED 06/12/01 J.C. 99123-03.DWG SCALE: 1"=20' BLOCKS: 1/4"=10'



STATION EQUATION
N 11312.1886, E 10114.597
MATCH LINE STA. 15+00 BK. =
MATCH LINE STA. 15+01.32 FWD.



TOWN OF ADDISON, TEXAS

MARSH LANE WATER LINE & BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE

MARSH LANE WATER LINE PLAN - PROFILE
STA. 10+00 TO STA. 15+00

BIRKHOFF, HENDRICKS & CONWAY, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas

DESIGNED BY: J.W.B.	PROJECT: 1999 123	SHEET NO. 3
DRAWN BY: B.H. & C.	DATE: JUNE, 2001	OF 17 SHEETS

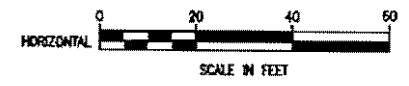
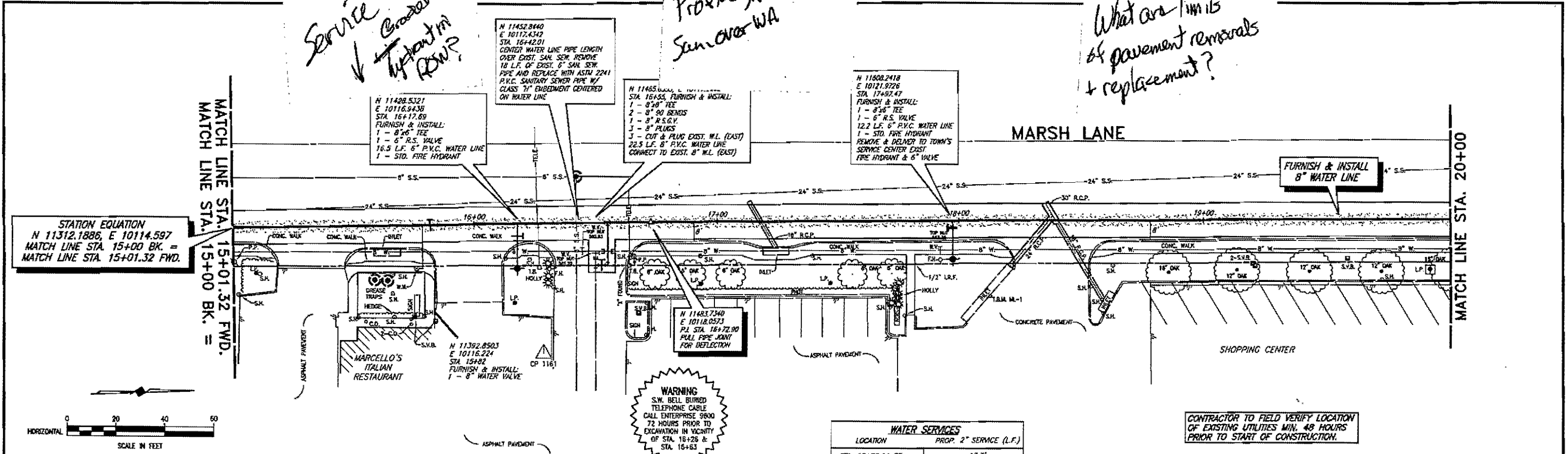
THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.

DATE: _____

Service
↓
Ground
by hand in
R.S.W?

Profile show
San over WA

What are limits
of pavement removals
& replacement?



SURVEY CONTROL POINTS

CP 1161	PK NAIL SET	N 11437.5911	E 10170.6581
CP 1162	PK NAIL SET	N 11676.7098	E 10054.0723

CONCRETE PAVEMENT, CURB & WALK
REMOVAL AND REPLACEMENT

SHADING INDICATES APPROX. WIDTH OF
TRACK HOE

- NOTES:**
- CONTRACTOR TO PROTECT INLETS ALONG MARSH LANE.
 - COORDINATES ARE PROJECT SPECIFIC AND NOT STATE PLANE RELATED.

WATER SERVICES

LOCATION	PROP. 2" SERVICE (L.F.)
STA. 15+76.14 RT.	17.7'

FURNISH & INSTALL: PROP. 2" OUTLET, NEW 2" HIGH DENSITY POLYETHYLENE WATER PIPE AND WATER BOX. CONNECT TO EXISTING WATER LINE AT EACH WATER SERVICE LOCATION. TOWN TO FURNISH WATER METER.

CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING UTILITIES MIN. 48 HOURS PRIOR TO START OF CONSTRUCTION.

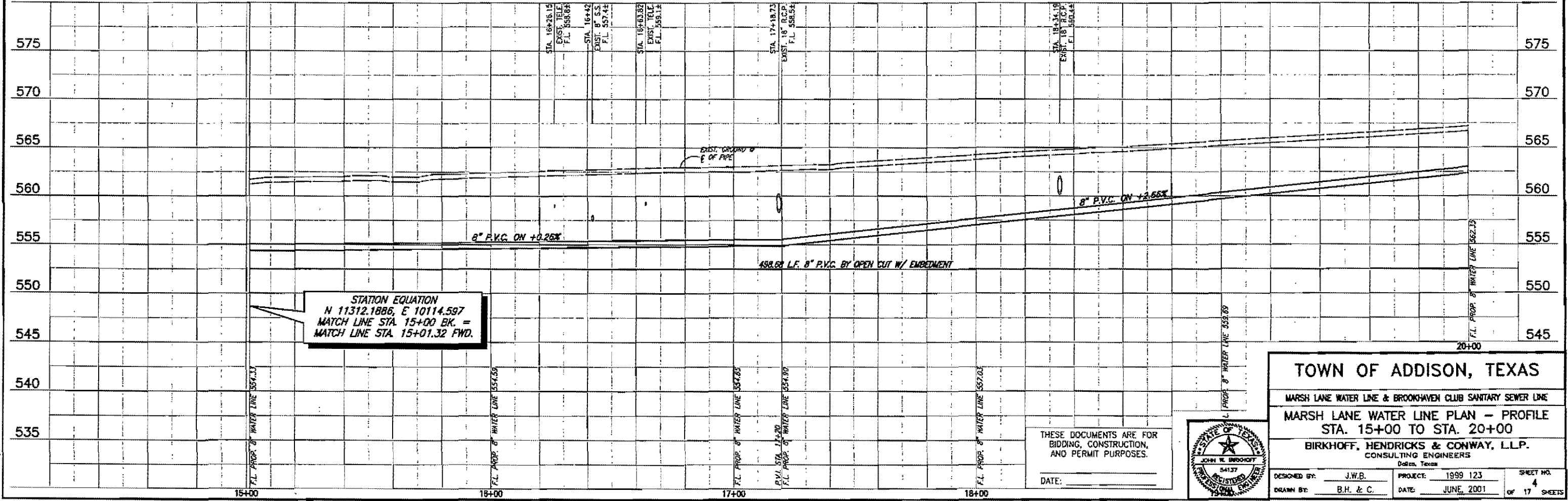
BENCHMARK: T.B.M. 27

T.B.M. M-1

*□ CENTER OF INLET LOCATED APPROX. 60' EAST OF NE INTERSECTION OF MARSH LN. & BROOKHAVEN CLUB DRIVE ELEV. 546.91

*□ CENTER OF INLET LOCATED APPROX. 530' SOUTH OF INTERSECTION OF MARSH LN. & SPRING VALLEY RD. ELEV. 566.08

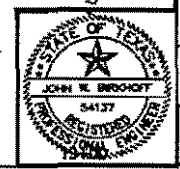
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STATION EQUATION
N 11312.1886, E 10114.597
MATCH LINE STA. 15+00 BK. =
MATCH LINE STA. 15+01.32 FWD.

THESE DOCUMENTS ARE FOR
BIDDING, CONSTRUCTION,
AND PERMIT PURPOSES.

DATE: _____



TOWN OF ADDISON, TEXAS

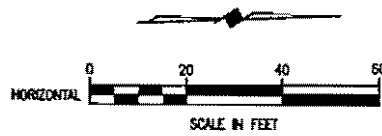
MARSH LANE WATER LINE & BROOKHAVEN CLUB SANITARY SEWER LINE

MARSH LANE WATER LINE PLAN - PROFILE
STA. 15+00 TO STA. 20+00

BIRKHOFF, HENDRICKS & CONWAY, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas

DESIGNED BY: J.W.B.	PROJECT: 1999 123	SHEET NO. 4
DRAWN BY: B.H. & C.	DATE: JUNE, 2001	OF 17 SHEETS

REvised 06/12/01 J.C. 99123-DALONG SCALE: 1"=20' BLOCKS: PROF W



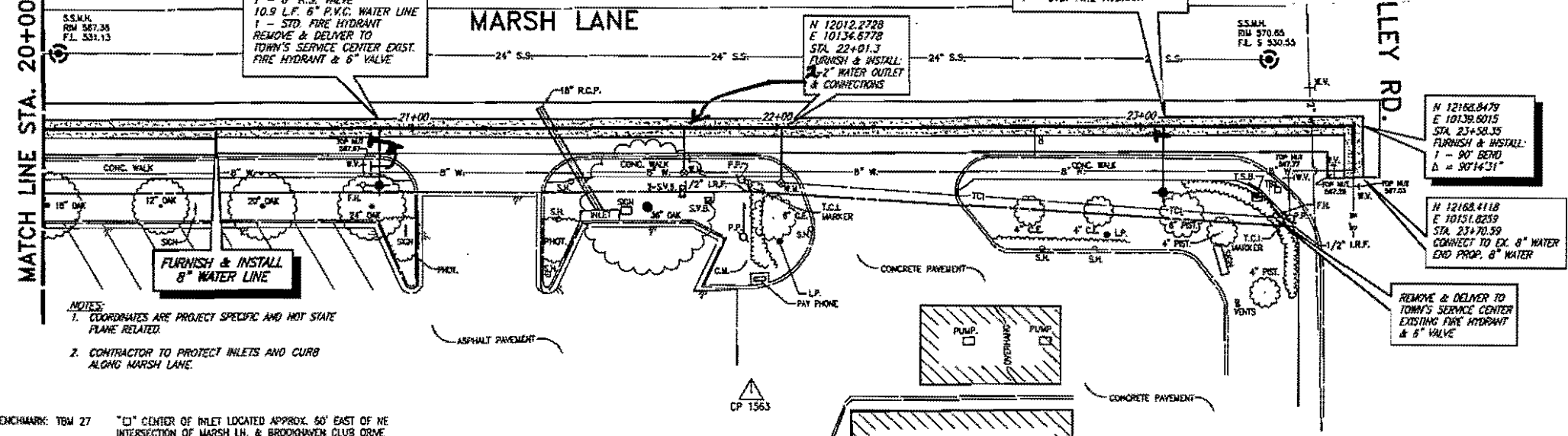
WATER SERVICES	
LOCATION	PROP. 2" SERVICE (L.F.)
STA. 21+75.2 RT.	11.4
STA. 22+01.7 RT.	14.3

FURNISH & INSTALL: PROP. 2" OUTLET, NEW 2" HIGH DENSITY POLYETHYLENE WATER PIPE, AND METER BOX. CONNECT TO EXISTING WATER LINE AT EACH WATER SERVICE LOCATION. TOWN TO FURNISH WATER METER.

SURVEY CONTROL POINTS
 CP 1478 PK NAIL SET N 12044.06 E 10065.34
 CP 1563 PK NAIL SET N 12001.67 E 10206.81

Cut & plug exist. remove valve stack abandon in place

MATCH LINE STA. 20+00

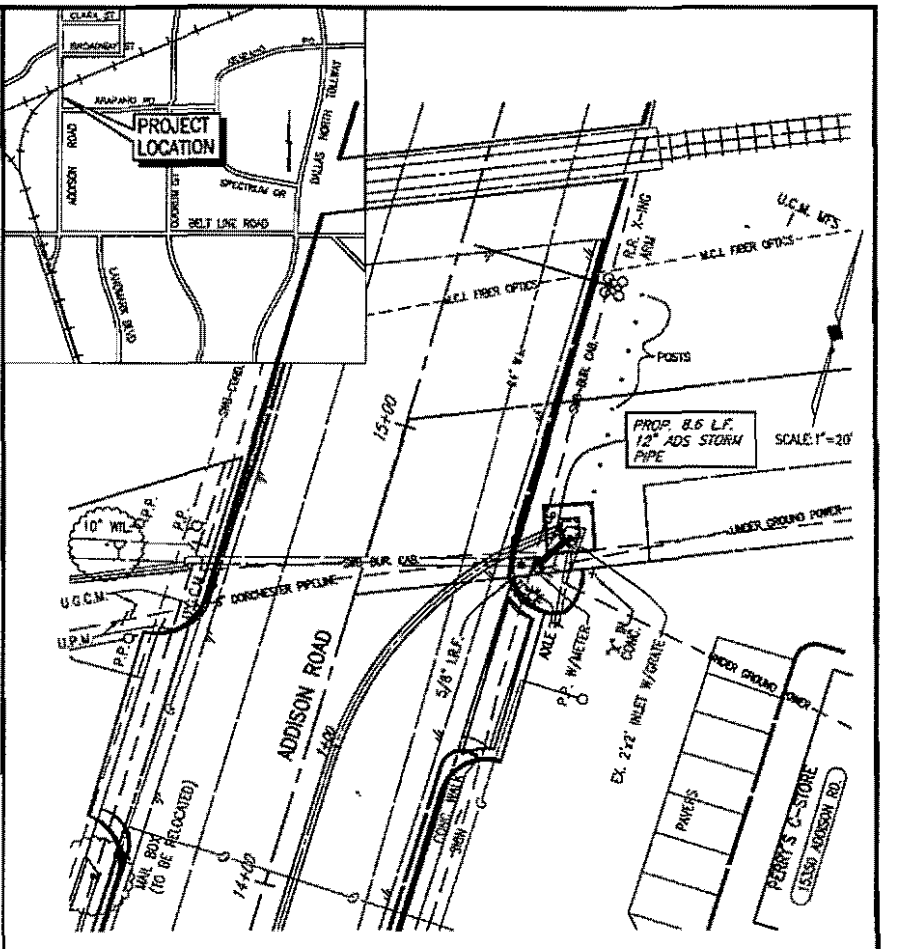


NOTES:
 1. COORDINATES ARE PROJECT SPECIFIC AND NOT STATE PLANE RELATED.
 2. CONTRACTOR TO PROTECT INLETS AND CURB ALONG MARSH LANE.

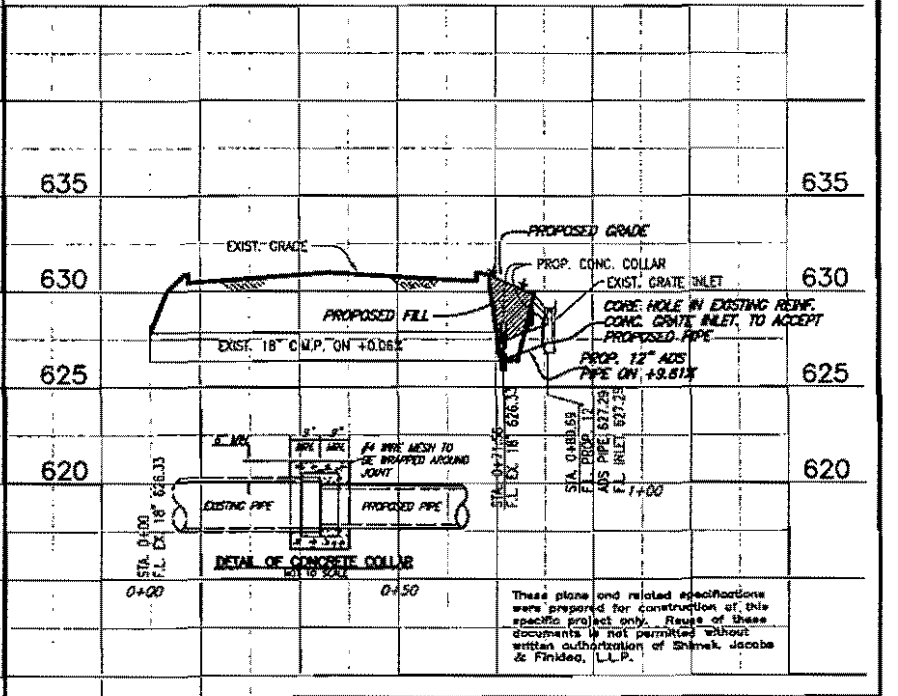
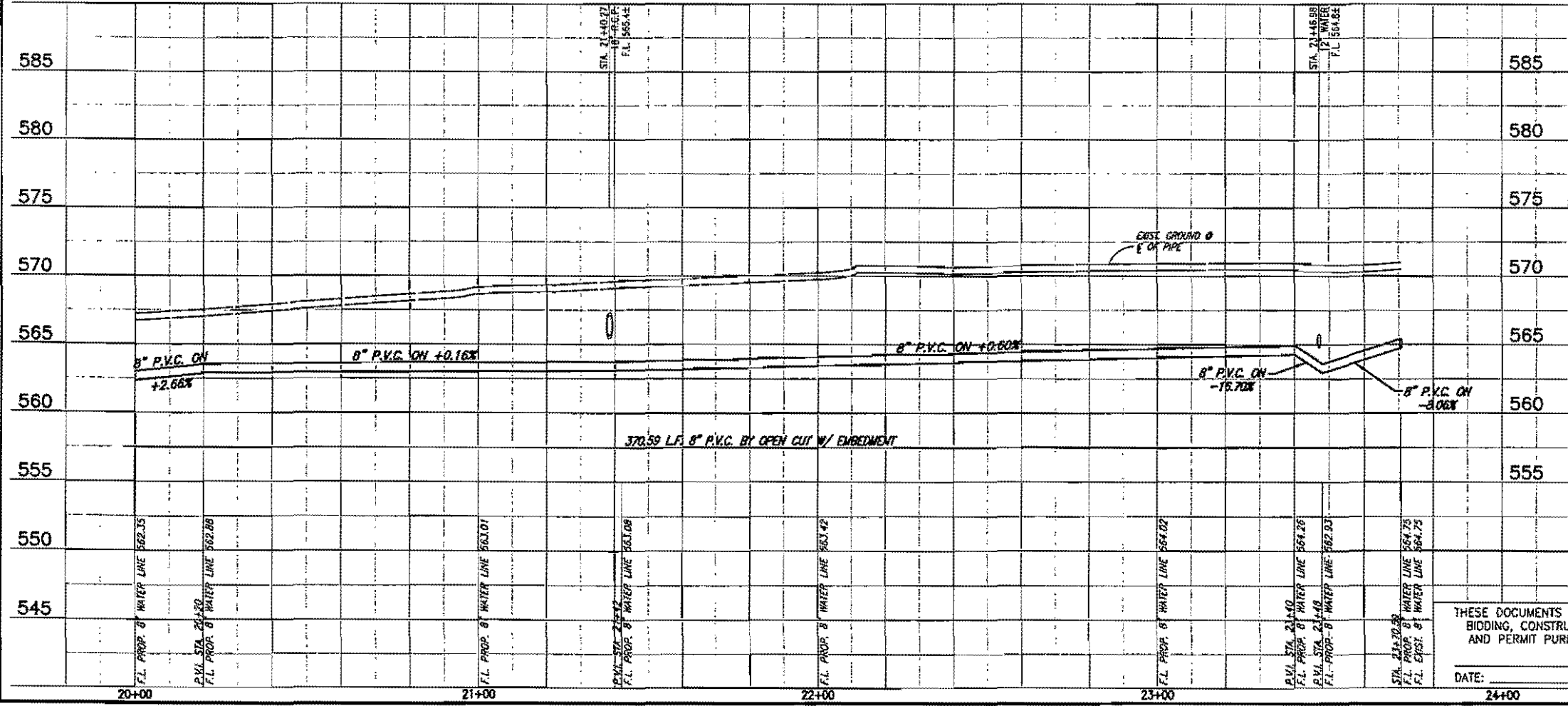
BENCHMARK: TBM 27 "C" CENTER OF INLET LOCATED APPROX. 50' EAST OF NE INTERSECTION OF MARSH LN. & BROOKHAVEN CLUB DRIVE ELEV. 546.91
 TBM WL-1 "C" CENTER OF INLET LOCATED APPROX. 530' SOUTH OF INTERSECTION OF MARSH LN. & SPRING VALLEY RD. ELEV. 566.08

CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING UTILITIES MIN. 48 HOURS PRIOR TO START OF CONSTRUCTION.

CONCRETE PAVEMENT, CURB & WALK REMOVAL AND REPLACEMENT
 SHADING INDICATES APPROX. WIDTH OF TRACK HOE



ADDISON RD. IMPROVEMENTS
 PROP. 12" ADS STORM SEWER



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TOWN OF ADDISON, TEXAS

MARSH LANE WATER LINE & BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE
MARSH LANE WATER LINE PLAN - PROFILE
 STA. 20+00 TO STA. 23+70.59

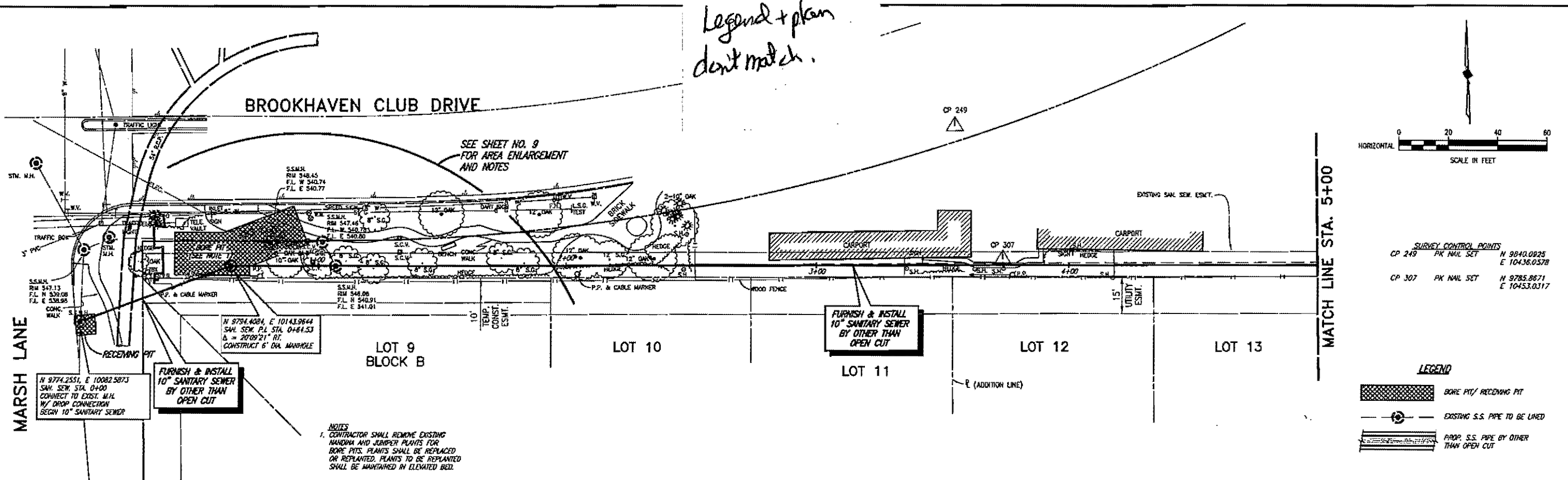
BIRKHOFF, HENDRICKS & CONWAY, L.L.P.
 CONSULTING ENGINEERS
 Dallas, Texas

DESIGNED BY: J.W.B.	PROJECT: 1999 123	SHEET NO. 5
DRAWN BY: B.H. & C.	DATE: JUNE, 2001	OF 17 SHEETS

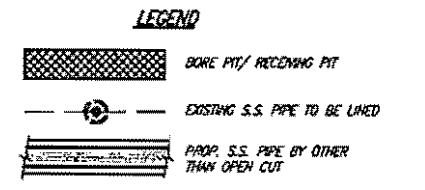
THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.
 DATE: _____

REVISED 08/12/01 J.C. 99123-05.DWG SCALE: 1"=20' BLOCKS/PROFILES

Legend + plan
don't match.



SURVEY CONTROL POINTS
 CP 249 PK NAIL SET N 9840.0825
 E 10436.0378
 CP 307 PK NAIL SET N 9785.8671
 E 10453.0317

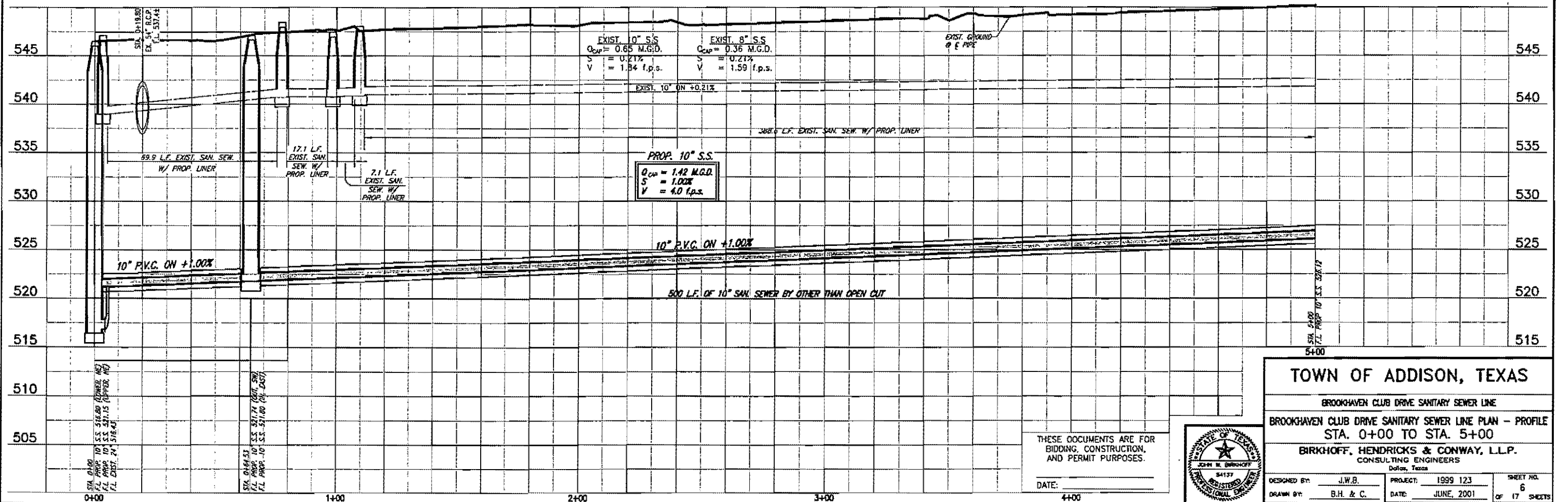


NOTES
 1. CONTRACTOR SHALL REMOVE EXISTING MANHOLE AND SEWER PLANTS FOR BORE PITS. PLANTS SHALL BE REPLACED OR REPLANTED. PLANTS TO BE REPLANTED SHALL BE MAINTAINED IN ELEVATED BED.

WOODED CREEK ESTATES

BENCHMARK: TBM 27 "C" CENTER OF INLET LOCATED APPROX. 60' EAST OF NE INTERSECTION OF MARSH LN. & BROOKHAVEN CLUB DRIVE ELEV. 546.91

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REVISION 06/12/01 J.C. 99123-06.DWG
 SCALE: 1"=20'
 BLOCKS PROPOSED

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.
 DATE: _____



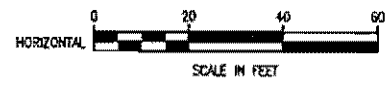
TOWN OF ADDISON, TEXAS

BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE
 BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE PLAN - PROFILE
 STA. 0+00 TO STA. 5+00
 BIRKHOFF, HENDRICKS & CONWAY, L.L.P.
 CONSULTING ENGINEERS
 Dallas, Texas

DESIGNED BY: J.W.B.	PROJECT: 1999 123	SHEET NO. 6
DRAWN BY: B.H. & C.	DATE: JUNE, 2001	OF 17 SHEETS

MATCH LINE STA. 5+00

MATCH LINE STA. 10+00

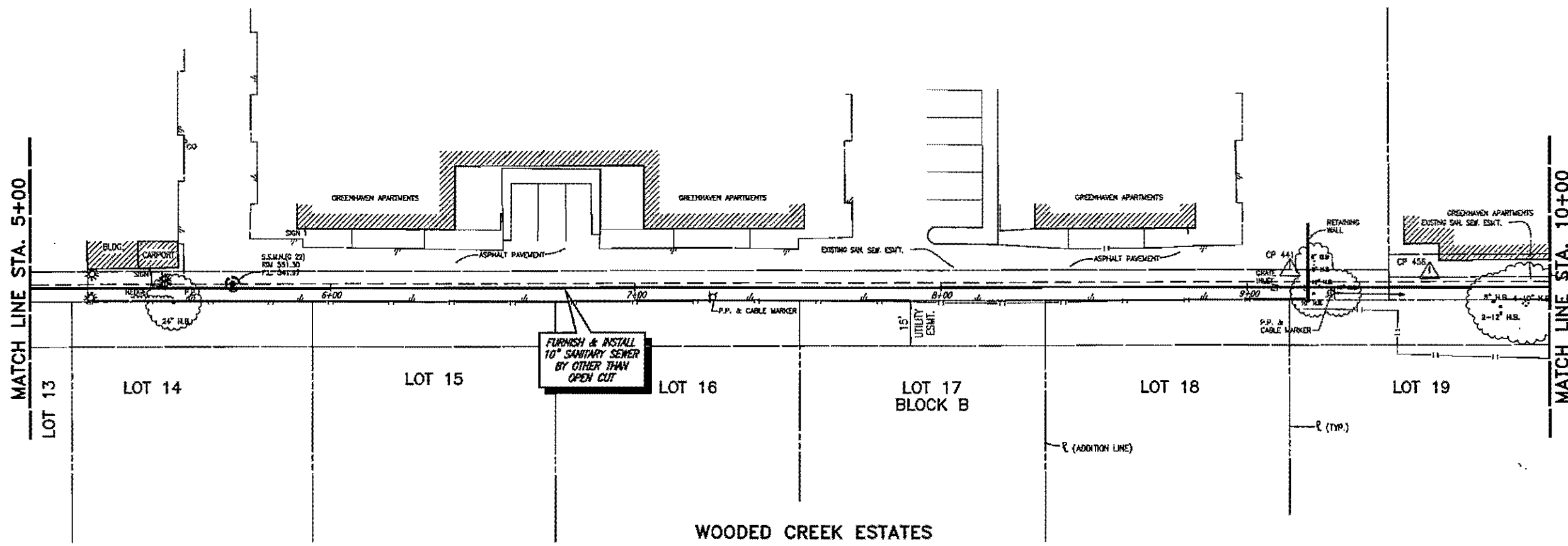


SURVEY CONTROL POINTS

CP 441	604 NAIL	N 9770.2518
		E 10993.1554
CP 456	PK NAIL SET	N 9767.7210
		E 11039.1426

LEGEND

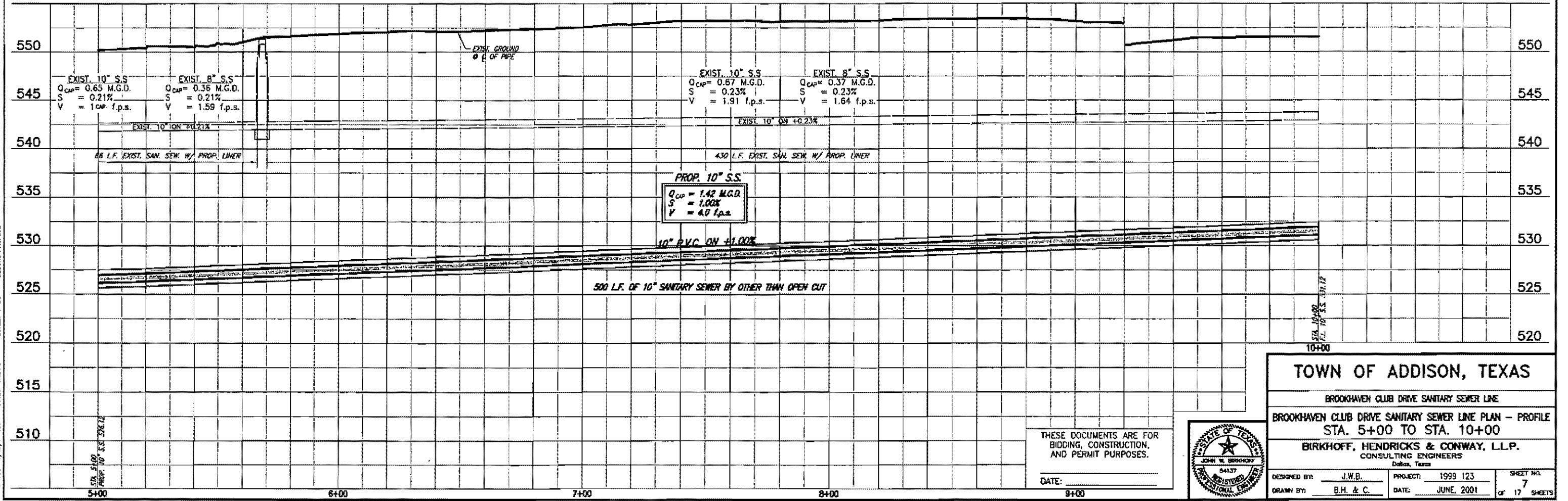
- BORE PIT/ RECEIVING PIT
- EXISTING S.S. PIPE TO BE LINED
- PROP. S.S. PIPE BY OTHER THAN OPEN CUT



WOODED CREEK ESTATES

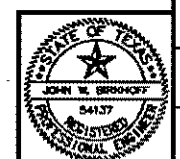
BENCHMARK: TBM 27
 "C" CENTER OF INLET LOCATED APPROX. 60' EAST OF THE INTERSECTION OF MARSH LN. & BROOKHAVEN CLUB DRIVE. ELEV. 546.91

These plans and related specifications were prepared for construction of this specific project only. Reuse of these documents is not permitted without written authorization of Birkhoff, Hendricks, & Conway, L.L.P.



REVISED 06/12/01 J.C. 99123-07.DWG SCALE: 1"=20' BLOCKS PROFESS

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.
 DATE: _____



TOWN OF ADDISON, TEXAS

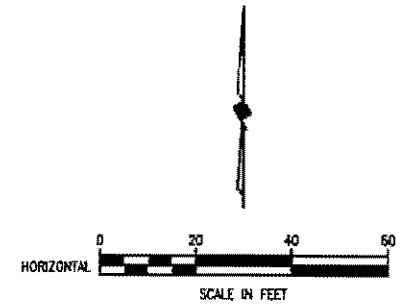
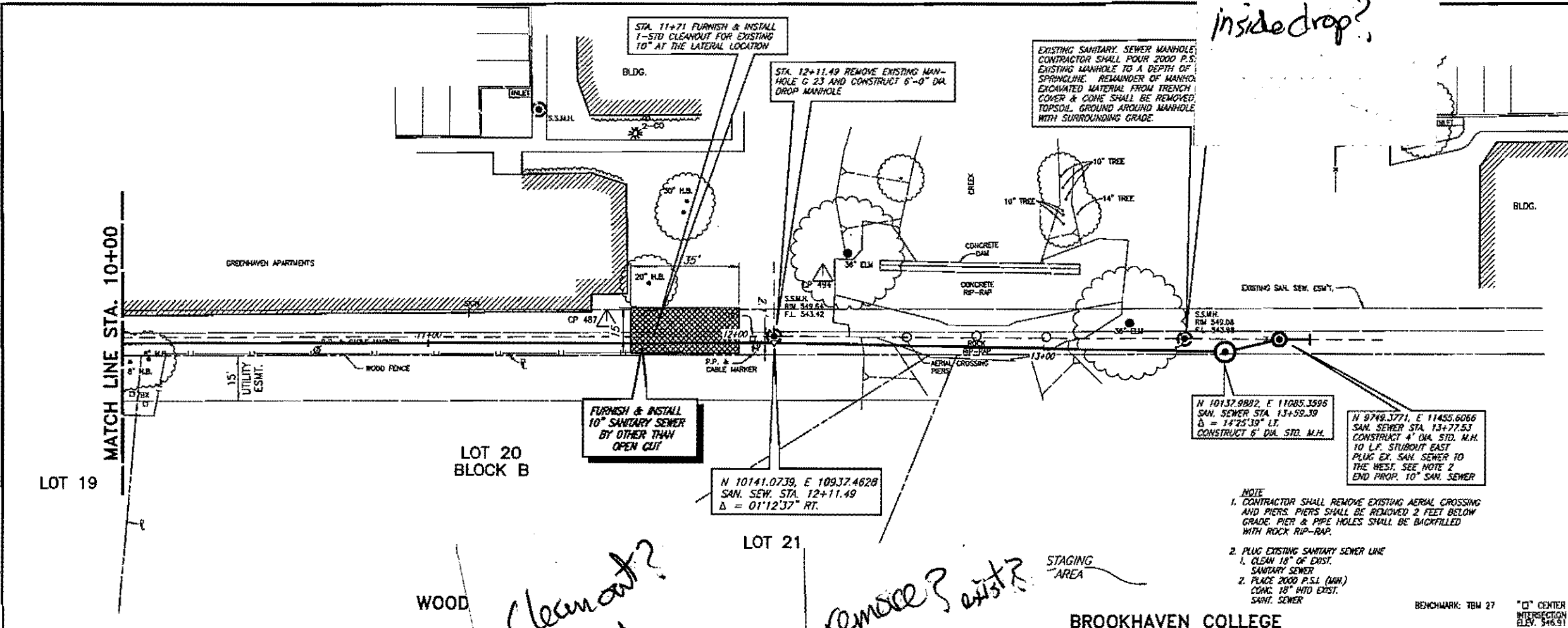
BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE

BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE PLAN - PROFILE
 STA. 5+00 TO STA. 10+00

BIRKHOFF, HENDRICKS & CONWAY, L.L.P.
 CONSULTING ENGINEERS
 Dallas, Texas

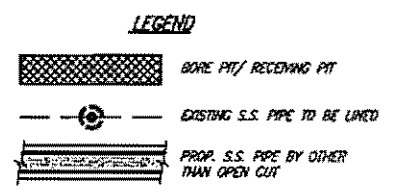
DESIGNED BY: J.W.B.	PROJECT: 1999 123	SHEET NO. 7
DRAWN BY: B.H. & C.	DATE: JUNE, 2001	OF 17 SHEETS

inside drop?



SURVEY CONTROL POINTS

CP 487	60d NAIL	N 9775.8912	E 11306.7473
CP 484	60d NAIL	N 9763.5044	E 11236.2683

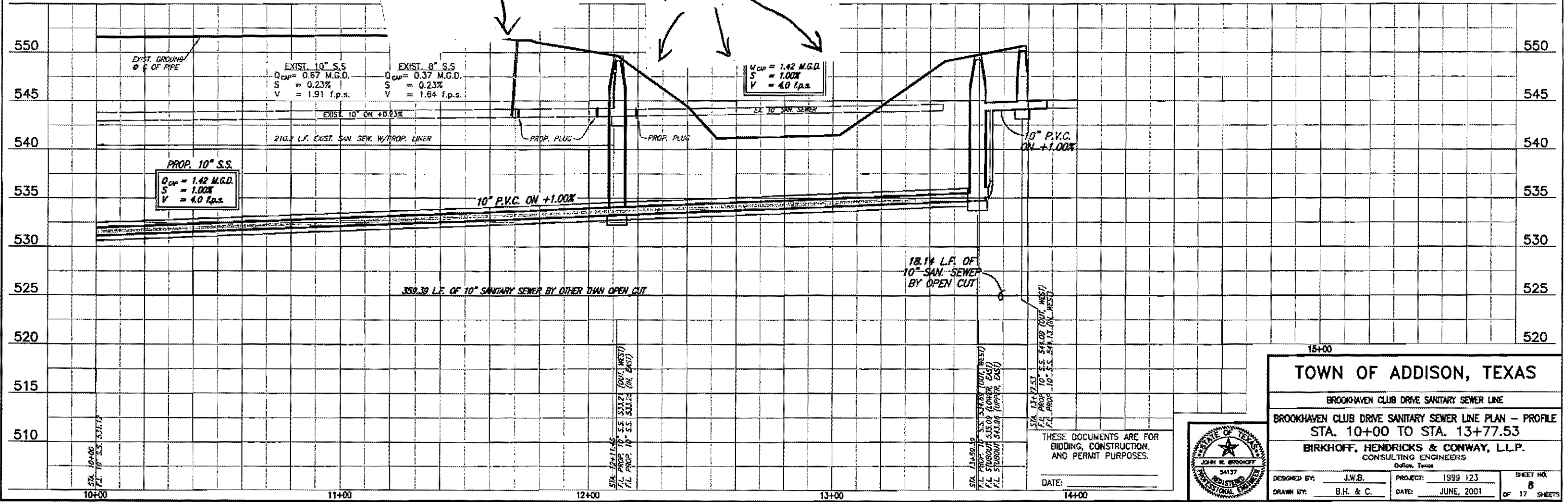


- NOTE**
- CONTRACTOR SHALL REMOVE EXISTING AERIAL CROSSING AND PIERS. PIERS SHALL BE REMOVED 2 FEET BELOW GRADE. PIER & PIPE HOLES SHALL BE BACKFILLED WITH ROCK RIP-RAP.
 - PLUG EXISTING SANITARY SEWER LINE
 - CLEAN 18" OF DIST. SANITARY SEWER
 - PLACE 2000 P.S.I. (MIN) CONC. 18" R/O EXIST. SANIT. SEWER

BENCHMARK: TBM 27
 "C" CENTER OF INLET LOCATED APPROX. 60' EAST OF NE INTERSECTION OF MARSH LN. & BROOKHAVEN CLUB DRIVE ELEV. 546.91

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cleanout?
remove? exist?



15+00

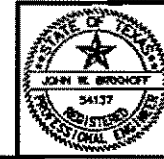
TOWN OF ADDISON, TEXAS

BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE

BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE PLAN - PROFILE
 STA. 10+00 TO STA. 13+77.53

BIRKHOFF, HENDRICKS & CONWAY, L.L.P.
 CONSULTING ENGINEERS
 Dallas, Texas

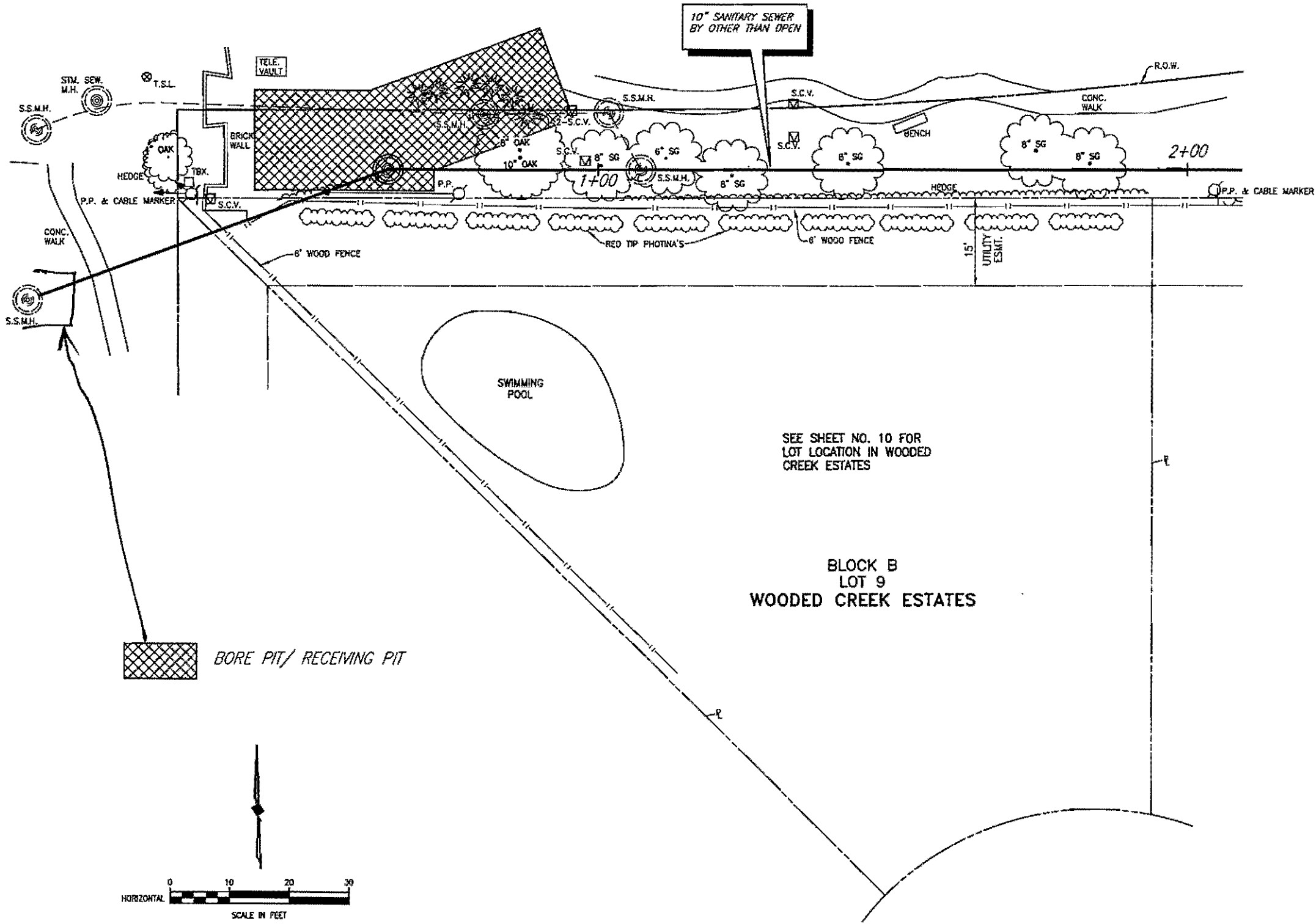
DESIGNED BY: J.W.B.	PROJECT: 1999 123	SHEET NO. 8
DRAWN BY: B.H. & C.	DATE: JUNE, 2001	OF 17 SHEETS



THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.

DATE: _____

REVISION 06/17/01 J.C. 99123-BROOKING ELWOODS PROFESSIONAL ENGINEER SCALE: 1"=40'



SEE SHEET NO. 10 FOR LOT LOCATION IN WOODED CREEK ESTATES

BLOCK B
LOT 9
WOODED CREEK ESTATES

BORE PIT/ RECEIVING PIT

NOTES:

1. PRIOR TO CONSTRUCTION CONTRACTOR SHALL ARRANGE AND PAY FOR UNDER WATER SERVICES (817-447-7321) TO COMPLETE AN UNDER WATER VIDEO OF THE SWIMMING POOL AT BLOCK B, LOT 9, WOODED CREEK ESTATES. ALSO CONTRACTOR COMPLETE A VIDEO OF THE POOL DECK, YARD AND BRICK WALLS OF HOUSE LOCATED AT BLOCK B, LOT 9, WOODED CREEK ESTATES. SUCH VIDEO SHALL BE VHS FORMAT IN COLOR AND BE NARRATED. ORIGINAL VIDEOS SHALL BE PROVIDED TO THE TOWN OF ADDISON.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO SWIMMING POOL, POOL DECK, HOUSE STRUCTURE, ETC. ON BLOCK B, LOT 9, WOODED CREEK ESTATES CAUSED BY CONSTRUCTION ACTIVITIES.
3. DURING EXCAVATION OF BORE PIT EXISTING WOOD FENCE MAY BE REQUIRED TO BE REMOVED TO SWING BACK HOE. CONTRACTOR SHALL ERECT TEMPORARY CHAIN LINK FENCE WITH TARPS DURING CONSTRUCTION.
4. IMMEDIATELY AFTER CONSTRUCTION OF SANITARY SEWER LINE ENTIRE NORTH WOOD FENCE ALONG BLOCK B, LOT 9, WOODED CREEK ESTATES SHALL BE REMOVED AND REPLACED WITH 8 FOOT RED CEDAR FENCE WITH HOT DIPPED GALVANIZED POSTS AND HARDWARE. FENCE PICKETS SHALL HAVE AN OVERLAP PICKET OF EQUAL WIDTH AT ALL VERTICAL JOINTS. FINISHED SIDE TOWARDS BROOKHAVEN CLUB DRIVE.
5. RED TIP PHOTINIA'S ALONG NORTH PROPERTY LINE SHALL BE REMOVED AND REPLACED WITH _____ PLANTING SHALL BE COMPLETED BY A LANDSCAPE COMPANY LICENSED IN THE STATE OF TEXAS.

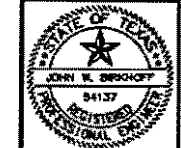
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TOWN OF ADDISON, TEXAS

BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE

BLOCK B, LOT 9, WOODED CREEK ESTATES
AREA ENLARGEMENTS AND NOTES

BIRKHOFF, HENDRICKS & CONWAY, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas

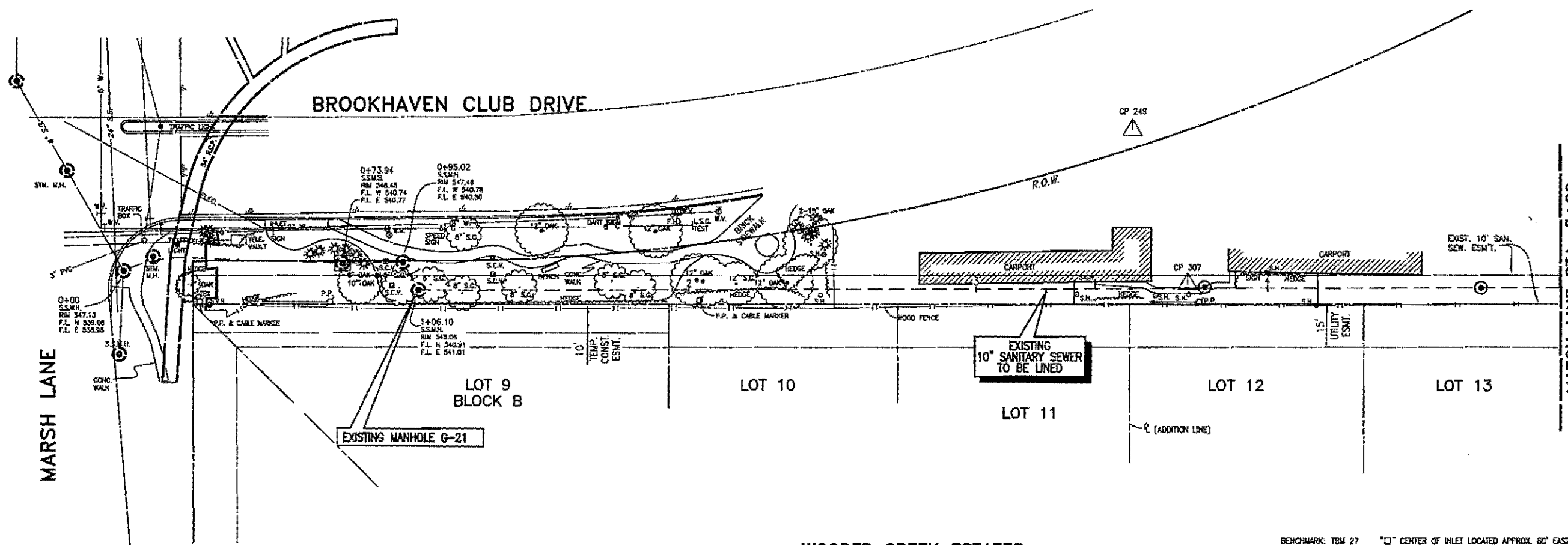
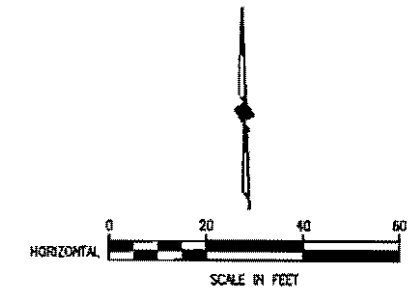


THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.

DATE: _____

DESIGNED BY: J.W.B.	PROJECT: 1999 123	SHEET NO. 9
DRAWN BY: B.H. & C.	DATE: JUNE, 2001	OF 17 SHEETS

06/12/01 J.C. 59123-08.DWG SCALE: 1"=10'



- LEGEND**
- ⊙ — EXISTING S.S. PIPE TO BE LINED
 - ⊙ — APPROXIMATE LOCATION OF LATERAL
- SURVEY CONTROL POINTS**
- | | | |
|--------|-------------|--------------|
| CP 249 | PK NAIL SET | N 9840.0925 |
| | | E 10436.0578 |
| CP 307 | PK NAIL SET | N 9785.0671 |
| | | E 10453.0317 |

WOODED CREEK ESTATES

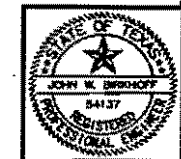
BENCHMARK: TBM 27 "C" CENTER OF INLET LOCATED APPROX. 60' EAST OF NE INTERSECTION OF MARSH LN. & BROOKHAVEN CLUB DRIVE ELEV. 546.91

APPROXIMATE LENGTH TO LATERAL LINES FROM MH G-21 TO MH G-22
87.7 FEET
181.2 FEET

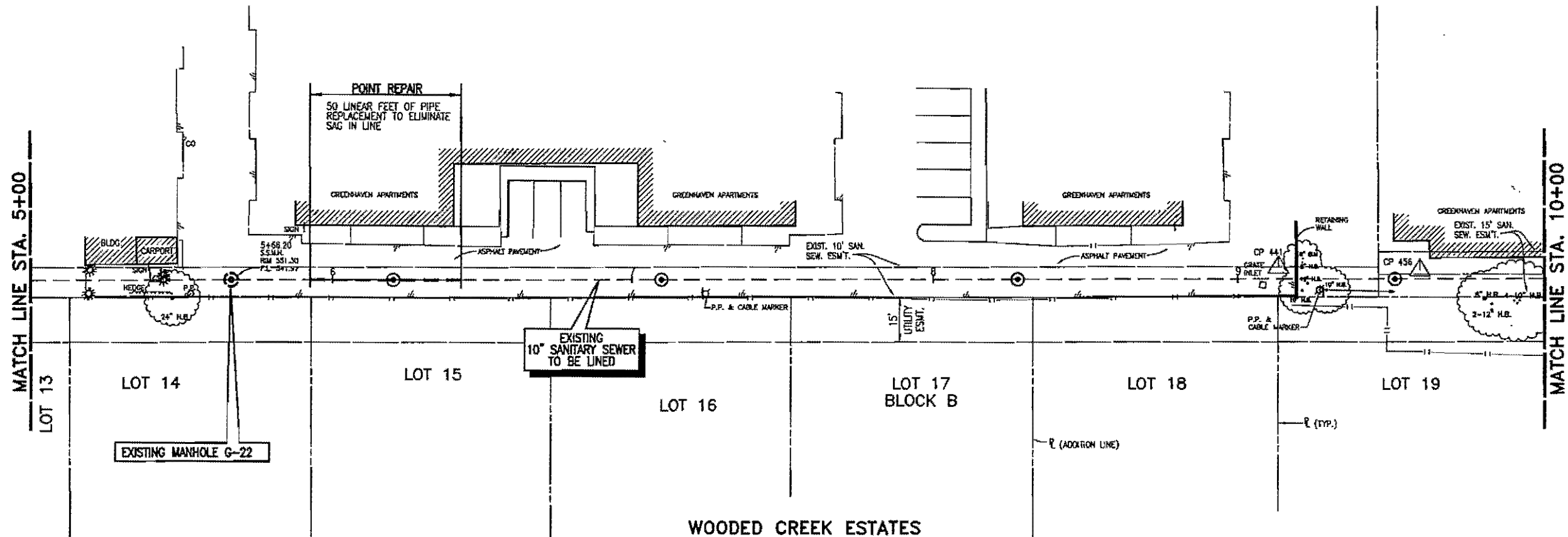
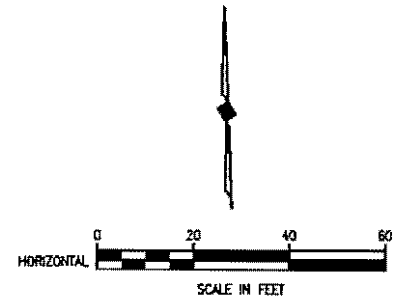
These plans and related specifications were prepared for construction of this specific project only. Review of these documents is not permitted without written authorization of Birkhoff, Hendricks, & Conway, L.L.P.

TOWN OF ADDISON, TEXAS		
BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE		
BROOKHAVEN CLUB DRIVE EXISTING SANITARY SEWER LINER PLAN STA. 0+00 TO STA. 5+00		
BIRKHOFF, HENDRICKS & CONWAY, L.L.P. CONSULTING ENGINEERS Dallas, Texas		
DESIGNED BY: J.W.B.	PROJECT: 1999 123	SHEET NO. 10
DRAWN BY: B.H. & C.	DATE: JUNE, 2001	OF 17 SHEETS

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DATE: _____



REVISED 08/12/01 LC 89123-08-ADDW SCALE: 1"=20' BLOCKS PROFESSIONAL ENGINEER



LEGEND

—●— EXISTING S.S. PIPE TO BE LINED

○ APPROXIMATE LOCATION OF LATERAL

SURVEY CONTROL POINTS

CP 441 603 NAIL N 9770.2518
E 10993.1554

CP 456 PK NAIL SET N 9767.7210
E 11039.1426

EXISTING
10" SANITARY SEWER
TO BE LINED

EXISTING MANHOLE G-22

APPROXIMATE LENGTH TO LATERAL LINES FROM MH G-22 TO MH G-23	
58.2 FEET	
143.7 FEET	
262.0 FEET	
365.2 FEET	

BENCHMARK: TBM 27 "O" CENTER OF INLET LOCATED APPROX. 60' EAST OF NE INTERSECTION OF MARSH LN. & BROOKHAVEN CLUB DRIVE ELEV. 546.91

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TOWN OF ADDISON, TEXAS

BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE

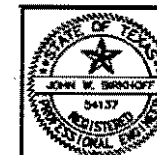
BROOKHAVEN CLUB DRIVE EXISTING SANITARY SEWER LINER PLAN
STA. 5+00 TO STA. 10+00

BIRKHOFF, HENDRICKS & CONWAY, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas

DESIGNED BY: J.W.B.	PROJECT: 1999 123	SHEET NO. 11
DRAWN BY: B.H. & C.	DATE: JUNE, 2001	OF 17 SHEETS

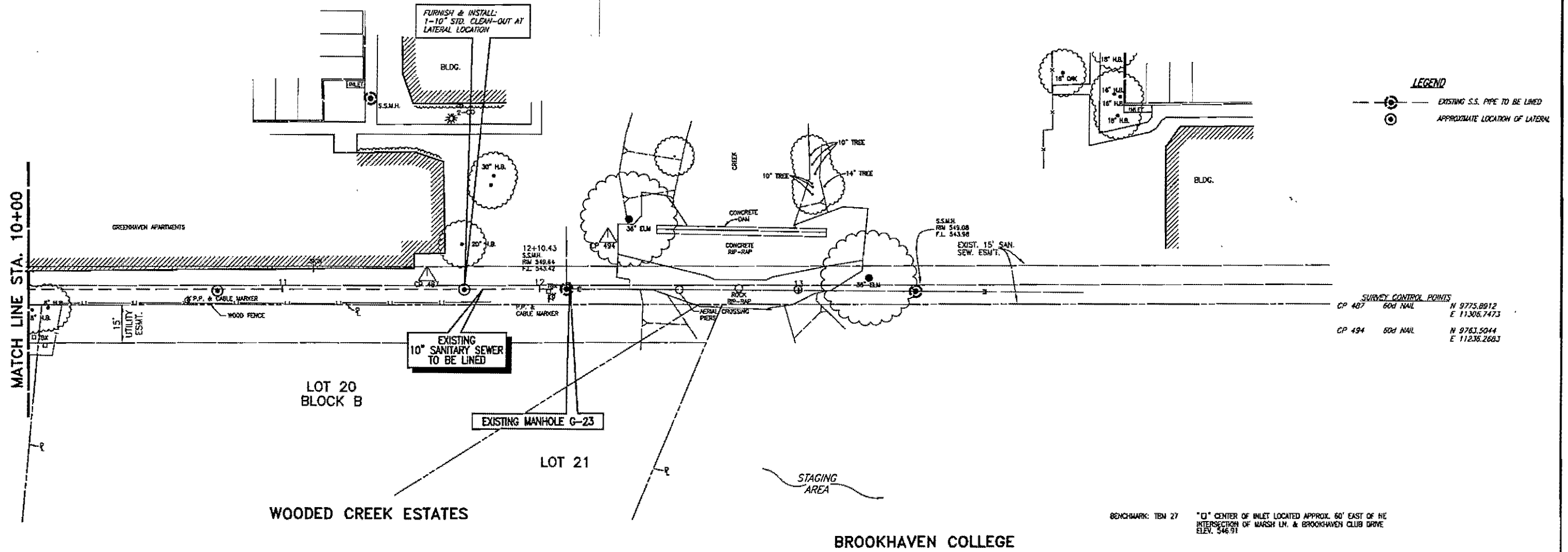
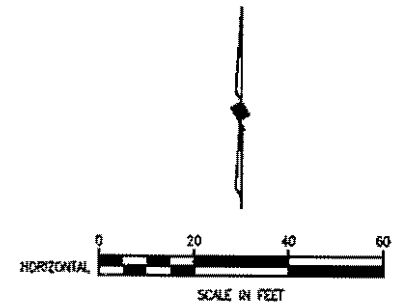
THESE DOCUMENTS ARE FOR
BIDDING, CONSTRUCTION,
AND PERMIT PURPOSES.

DATE: _____



REVISED 06/15/01 A.C. 99123-97-A.DWG SCALE: 1"=20' BLOCKS:

Isn't the section between
MH + CP. being removed?



APPROXIMATE LENGTH TO LATERAL LINES FROM MH G-22 TO MH G-23
38.0 FEET
135.0 FEET
241.0 FEET

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TOWN OF ADDISON, TEXAS

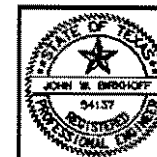
BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE

BROOKHAVEN CLUB DRIVE EXISTING SANITARY SEWER LINER PLAN
STA. 10+00 TO STA. 12+10.43

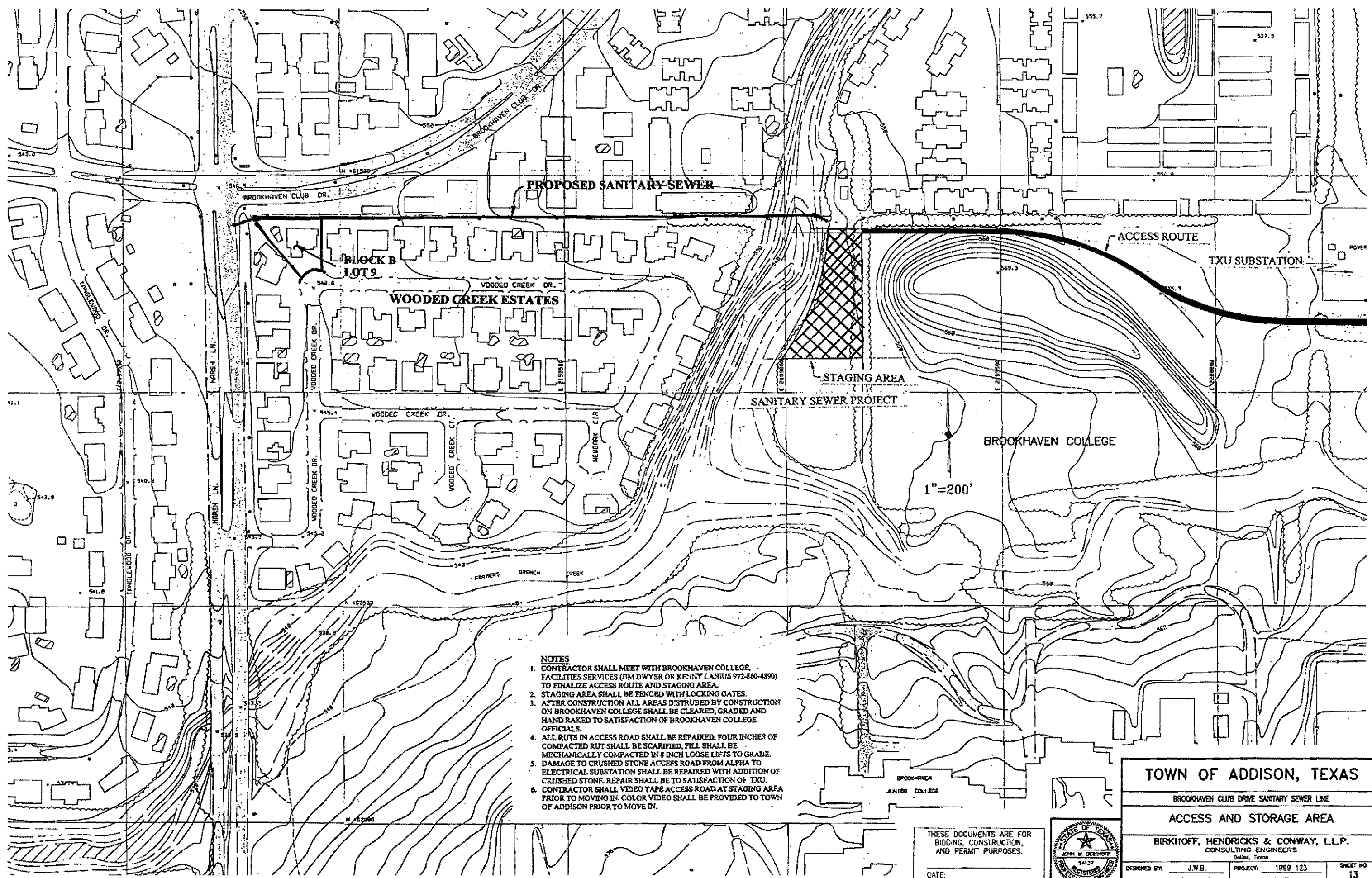
BIRKHOFF, HENDRICKS & CONWAY, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas

DESIGNED BY: J.W.B.	PROJECT: 1999 123	SHEET NO. 12
DRAWN BY: B.H. & C.	DATE: JUNE, 2001	OF 17 SHEETS

THESE DOCUMENTS ARE FOR
BIDDING, CONSTRUCTION,
AND PERMIT PURPOSES.
DATE: _____



06/12/01 J.C. 9913-17-AC-AJWG SCALE: 1"=20' BLOCKS:



PROPOSED SANITARY SEWER

BLOCK B LOT 9

WOODED CREEK ESTATES

STAGING AREA

SANITARY SEWER PROJECT

BROOKHAVEN COLLEGE

TXU SUBSTATION

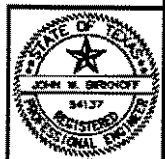
1"=200'

NOTES

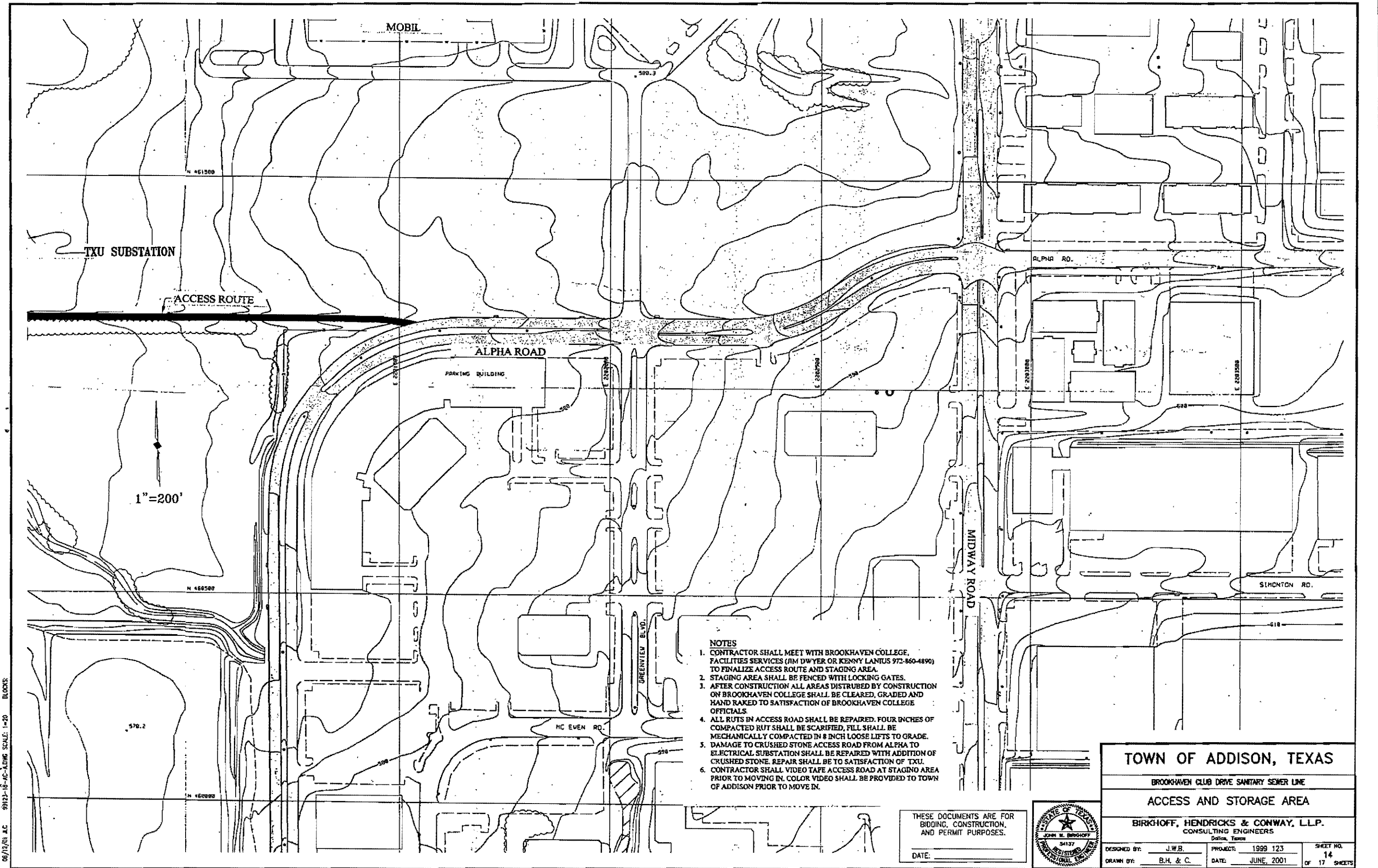
1. CONTRACTOR SHALL MEET WITH BROOKHAVEN COLLEGE, FACILITIES SERVICES (JIM DWYER OR KENNY LANIUS 972-360-4890) TO FINALIZE ACCESS ROUTE AND STAGING AREA.
2. STAGING AREA SHALL BE FENCED WITH LOCKING GATES.
3. AFTER CONSTRUCTION ALL AREAS DISTRIBUTED BY CONSTRUCTION ON BROOKHAVEN COLLEGE SHALL BE CLEARED, GRADED AND HAND RAKED TO SATISFACTION OF BROOKHAVEN COLLEGE OFFICIALS.
4. ALL RUTS IN ACCESS ROAD SHALL BE REPAIRED. FOUR INCHES OF COMPACTED RUT SHALL BE SCARIFIED, FILL SHALL BE MECHANICALLY COMPACTED IN 4 INCH LOOSE LIFTS TO GRADE.
5. DAMAGE TO CRUSHED STONE ACCESS ROAD FROM ALPHA TO ELECTRICAL SUBSTATION SHALL BE REPAIRED WITH ADDITION OF CRUSHED STONE. REPAIR SHALL BE TO SATISFACTION OF TXU.
6. CONTRACTOR SHALL VIDEO TAPE ACCESS ROAD AT STAGING AREA PRIOR TO MOVING IN. COLOR VIDEO SHALL BE PROVIDED TO TOWN OF ADDISON PRIOR TO MOVE IN.

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.

DATE: _____



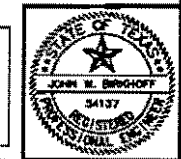
TOWN OF ADDISON, TEXAS			
BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE			
ACCESS AND STORAGE AREA			
BIRKHOFF, HENDRICKS & CONWAY, L.L.P. CONSULTING ENGINEERS Dallas, Texas			
DESIGNED BY:	J.W.B.	PROJECT:	1999 123
DRAWN BY:	B.H. & C.	DATE:	JUNE, 2001
			SHEET NO. 13 OF 17 SHEETS



06/12/01 J.C. 99123-16-AC-ADMG SCALE: 1"=20' BLOCKS

- NOTES**
1. CONTRACTOR SHALL MEET WITH BROOKHAVEN COLLEGE, FACILITIES SERVICES (JIM DWYER OR KENNY LANTUS 972-860-4890) TO FINALIZE ACCESS ROUTE AND STAGING AREA.
 2. STAGING AREA SHALL BE FENCED WITH LOCKING GATES.
 3. AFTER CONSTRUCTION ALL AREAS DISTURBED BY CONSTRUCTION ON BROOKHAVEN COLLEGE SHALL BE CLEARED, GRADED AND HAND RAKED TO SATISFACTION OF BROOKHAVEN COLLEGE OFFICIALS.
 4. ALL RUTS IN ACCESS ROAD SHALL BE REPAIRED. FOUR INCHES OF COMPACTED RUT SHALL BE SCARIFIED, FILL SHALL BE MECHANICALLY COMPACTED IN 8 INCH LOOSE LIFTS TO GRADE.
 5. DAMAGE TO CRUSHED STONE ACCESS ROAD FROM ALPHA TO ELECTRICAL SUBSTATION SHALL BE REPAIRED WITH ADDITION OF CRUSHED STONE. REPAIR SHALL BE TO SATISFACTION OF TXU.
 6. CONTRACTOR SHALL VIDEO TAPE ACCESS ROAD AT STAGNO AREA PRIOR TO MOVING IN. COLOR VIDEO SHALL BE PROVIDED TO TOWN OF ADDISON PRIOR TO MOVE IN.

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.
DATE: _____



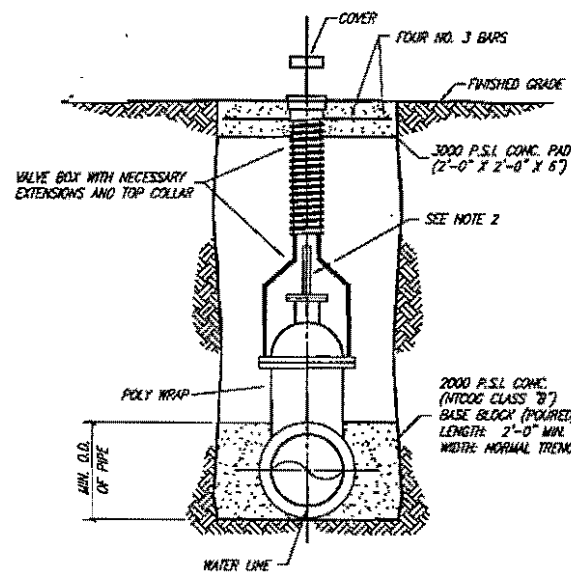
TOWN OF ADDISON, TEXAS		
BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE		
ACCESS AND STORAGE AREA		
BIRKHOFF, HENDRICKS & CONWAY, L.L.P. CONSULTING ENGINEERS Dallas, Texas		
DESIGNED BY: J.W.B.	PROJECT: 1999 123	SHEET NO. 14
DRAWN BY: B.H. & C.	DATE: JUNE, 2001	OF 17 SHEETS

GENERAL NOTES

(NOTES APPLY TO ALL SHEETS)

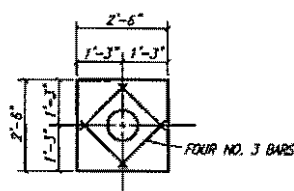
- REASONABLE EFFORT HAS BEEN MADE TO SHOW THE LOCATION OF ALL KNOWN UNDERGROUND UTILITIES AND SERVICE LINES. HOWEVER, THE OWNER ASSUMES NO RESPONSIBILITY FOR FAILURE TO SHOW ANY OR ALL EXISTING SUBSURFACE OR SURFACE UTILITIES OR UTILITY LINES, OR TO SHOW THEM IN THEIR EXACT LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, SERVICE LINES OR THE LINE, WHICH ARE CROSSED OR EXPOSED BY THE CONSTRUCTION OPERATION.
- CONTRACTOR SHALL NOTIFY UTILITY COMPANIES 72 HOURS PRIOR TO CONSTRUCTION
 - T.U. ELECTRIC
 - GENERAL TELEPHONE (G.T.E.)
 - LONG STAR GAS
 - CABLE TELEPHONE
 - T.C.I. CABLE TV
- ALL PAVEMENT SHALL BE SAWCUT FOR TRENCHES. SAWCUTS SHALL BE FULL DEPTH.
- ALL CONCRETE PAVEMENT (ROADWAYS, CURB & GUTTERS, DRIVES, AND SIDEWALKS, ETC.) SHALL HAVE FULL DEPTH SAWCUT, 1/8" INCH LONG NO. 4 DOWELS SHALL BE DRILLED INTO EXISTING PAVEMENT. CONTRACTOR SHALL UTILIZE A DRILLING RIG TO DRILL HOLES FOR DOWEL BARS. CONTRACTOR SHALL UTILIZE PROPER BITS AND PRESSURE, AS NOT TO DAMAGE EXISTING CONCRETE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGED PAVEMENT AND REPAIR AT HIS OWN COST.
- THE CONTRACTOR SHALL PROTECT ALL UNDERGROUND SPRINKLER SYSTEMS. ALL DAMAGES CAUSED BY CONSTRUCTION SHALL BE REPAIRED BY AN IRRIGATOR LICENSED IN THE STATE OF TEXAS. IRRIGATION REPAIR SHALL OCCUR WITHIN 48 HOURS OF DAMAGE OR AS PIPE LAYING TRAIN PASSES AFFECTED AREA. ALL COST SHALL BORNE BY THE CONTRACTOR.
- CONTRACTOR SHALL HAVE UTILITY COMPANIES SUPPORT AND PROTECT OR RELOCATE THEIR UTILITY POLES, CUY WIRES OR CABLE AND/OR LIGHT POLES IN WORK AREA. COST SHALL BE SUBSIDIARY TO THE CONTRACT.
- ALL ROADWAYS/ DRIVEWAYS, ETC. SHALL REMAIN OPEN DURING CONSTRUCTION. AT LEAST ONE WAY TRAFFIC (USING A FLAGMAN OR OTHER MEANS) SHALL BE AVAILABLE DURING WORKING HOURS. AFTER HOURS, TWO WAY TRAFFIC MUST BE MAINTAINED.
- THE CONTRACTOR SHALL REPLACE ALL SHRUBS, PLANTS, TREES, ETC. THAT ARE REMOVED FOR THE COMMENCEMENT OF CONSTRUCTION AT HIS EXPENSE. NEW SHRUBS, PLANTS, TREES, ETC. SHALL BE EQUAL TO OR BETTER THAN EXISTING ONES OR MEET THE NEEDS OF THE PROPERTY OWNER.
- THE CONTRACTOR SHALL RESTORE ALL EXISTING LANDSCAPING AND VEGETATION ALONG THE CONSTRUCTION ROUTE TO ITS ORIGINAL CONDITION AFTER COMPLETION OF CONSTRUCTION.
- ALL WATER VALVES SHALL BE RESILIENT SEATED WEDGE GATE VALVES.
- EXISTING FIRE HYDRANTS, VALVES AND VALVE STACKS CALLED OUT IN PLANS TO BE REMOVED AND DELIVERED TO TOWN'S SERVICE CENTER BY THE CONTRACTOR.
- ALL CHANGES OF DIRECTION OF THE PROPOSED WATER LINE SHALL BE MARKED ON THE SURFACE. PAVEMENT SHALL BE MARKED WITH PERMANENT MARKERS MANUFACTURED BY D.A.S. MANUFACTURING, INC. OF VALDIA, FLORIDA (813-881-8024). THE MARKER SHALL BE BLUE WITH THE WORD "WATER" AND AN ARROW(S) FOR THE DIRECTION(S) OF THE LINE.
- ALL WATER SERVICES SHALL INCLUDE AN U.S.C. APPROVED DOUBLE CHECK VALVE ASSEMBLY UPSTREAM OF METER. EACH SHALL BE SET IN ITS OWN VALVE OR METER BOX.
- ALL GRASS DISTURBED ALONG PROJECT SHALL BE REPLACED WITH SOLID SOO PLACED END TO END. CONTRACTOR SHALL WATER SOO TWICE A DAY FOR A PERIOD OF SIX WEEKS. WATERING SHALL BE ACCOMPLISHED BY USE OF A WATER TRUCK.
- ALL EXISTING AND NEW FIRE HYDRANTS NOT ACTIVE SHALL HAVE OUT OF SERVICE MARKERS PLACED ON TWO SIDES. MARKERS SHALL BE FROM HYDRA-SHIELD MANUFACTURING 1-800-676-0911 OR EQUAL. THE COLOR SHALL BE RED.
- FINAL LOCATION OF WATER METER SHALL BE DETERMINED IN THE FIELD BY THE TOWN OF ADDISON.
- ALL PAVEMENT CUTS SHALL BE COMPLETED UTILIZING FULL DEPTH SAW CUT. PROPOSED CONCRETE PAVEMENT SHALL BE DOWELED INTO EXIST. CONCRETE PAVEMENT (SEE LONGITUDINAL BUTT JOINT DETAIL).
- CONTRACTOR SHALL MAINTAIN A MINIMUM OF ONE DRIVE WAY OPEN TO ALL RESIDENTS AND BUSINESSES DURING CONSTRUCTION. DRIVEWAYS THAT ARE CLOSED FOR CONSTRUCTION SHALL BE DONE BETWEEN THE HOURS OF 9 AM AND 4 PM. ALL DRIVEWAYS CLOSED FOR CONSTRUCTION SHALL BE OPENED BY PLACEMENT OF STEEL PLATES OR BACKFILLED WITH ALL WEATHER SURFACE IMMEDIATELY AFTER WATER LINE IS CONSTRUCTED.
- MARSH LAKE NORTHBOUND SHALL BE OPEN TO TRAFFIC AT ALL TIMES WITHIN THE COZINE THE CONTRACTOR MAY CLOSE DOWN MARSH LAKE TO ONE LANE OF TRAFFIC FROM 3 PM AT ALL OTHER TIMES A MINIMUM OF TWO LANES OF TRAFFIC SHALL BE MAINTAINED. CONTRACTOR SHALL SUBMIT BARRICADE AND PHASING PLAN FOR TOWN'S REVIEW AND A MINIMUM OF 10 DAYS PRIOR TO ROAD CLOSURES. (SEE SPECIFICATIONS)
- CONTRACTOR SHALL PLACE 2 INCH HMA OVERLAY ON APARTMENT COMPLEX PARKING AREAS OUTSIDE OF DESIGNATED AREAS DAMAGED BY CONSTRUCTION SHALL BE REPLACE AT CONTRACTOR'S EXPENSE.
- COORDINATES ARE PROJECT SPECIFIC AND NOT STATE PLANE RELATED.
- ALL WIRES, STACKS AND PIPE SERVICE CONNECTIONS SHALL BE P.V.C. (SDR-35).
- ALL MANHOLE/PIPE CONNECTIONS SHALL INCLUDE A COUPLING WITH O-RING RUBBER GASKET, KOR-N-SEAL, A-LOK OR APPROVED EQUAL.
- PRIOR TO CONSTRUCTION OF MAIN SEWER LINES, THE CONTRACTOR SHALL LOCATE AND UNCOVER ALL SERVICE LINES AND VERIFY THAT EACH CAN BE CONNECTED TO THE PROPOSED MAIN LINE.
- PRECAST MANHOLES ARE NOT ACCEPTABLE. ALL MANHOLES SHALL BE CAST IN PLACE.
- ALL PROPOSED MANHOLES SHALL INCLUDE INTERNAL MANHOLE CHIMNEY SEAL AS SEAL AS MANUFACTURED BY CHETEX SPECIALTY PRODUCTS (OF MANASSA, VA) OR APPROVED EQUAL. THEY SHALL ALSO INCLUDE A BANISTERSTOPPER AS MANUFACTURED BY SOUTHWESTERN PACKING & SEALS (OF SHREVEPORT, LA) OR APPROVED EQUAL.
- HMA OVERLAY SHALL BE A MINIMUM 1 1/2" COMPACTED IN PLACE AND ALLOW FOR POSITIVE DRAINAGE. EXISTING SURFACE SHALL RECEIVE A TACK COAT PRIOR TO OVERLAY.
- EXISTING WATER LINE SHALL REMAIN IN SERVICE UNTIL PROPOSED MAIN IS ACCEPTED BY TOWN OF ADDISON.

epoxy set dowels



VALVE SETTING & BOX

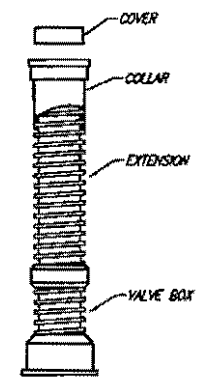
NO SCALE



VALVE BOX PAD PLAN

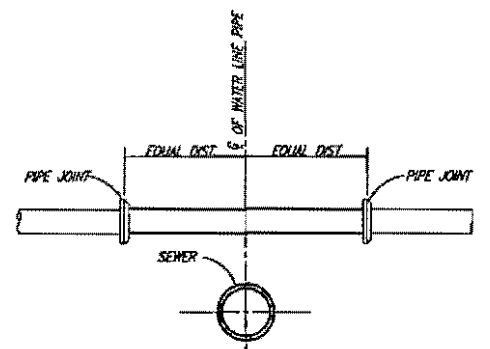
NO SCALE

- WATER VALVE NOTES:**
- 1" TO 1 1/2" GATE VALVE SHALL BE RESILIENT SEATED WEDGE GATE VALVES ACCORDANCE WITH ANNA STANDARD C-509.
 - A PERMANENTLY ATTACHED VALVE EXTENSION STEM SHALL BE REQUIRED FOR ANY VALVE WHOSE OPERATING NUT IS LOCATED IN EXCESS OF 4 FEET BELOW THE TOP OF VALVE BOX. THIS EXTENSION SHALL BE OF SUFFICIENT LENGTH TO INSURE THAT ITS TOP IS WITHIN 4" OF THE VALVE BOX COVER.
 - VALVE SHALL BE WRAPPED IN POLY WRAP.



VALVE BOX WITH EXTENSION

NO SCALE



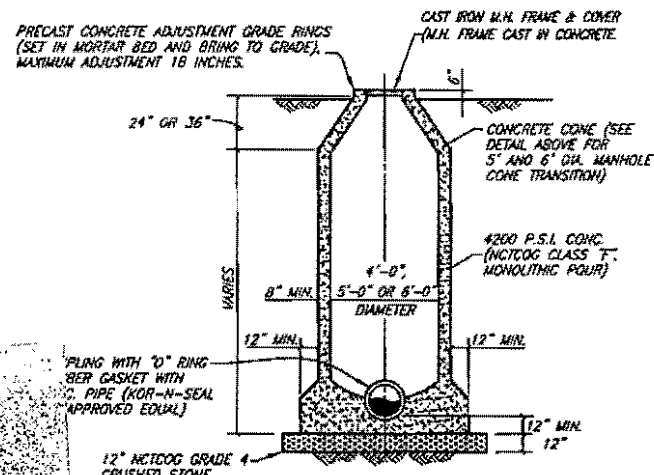
TYPICAL WATER/SEWER CROSSING

NO SCALE

WATER LINE PHASING

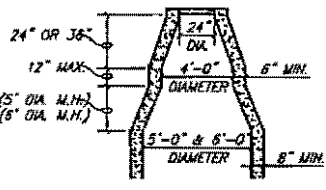
(NOTES APPLY TO ALL SHEETS)

- CONTRACTOR SHALL CONSTRUCT WATER LINE FROM STATION 0+00 TO STATION 15+17.
- CONTRACTOR SHALL TEST LINE AND HAVE ACCEPTED BY TOWN OF ADDISON.
- CONTRACTOR SHALL MAKE SERVICE CONNECTIONS.
- CONTRACTOR SHALL CONSTRUCT WATER LINE FROM 15+17 TO END OF PROJECT.
- CONTRACTOR SHALL TEST WATER LINE STARTING FROM 15+17 TO END OF LINE AND HAVE ACCEPTED BY TOWN OF ADDISON.
- CONTRACTOR SHALL MAKE REMAINING SERVICE CONNECTIONS.



STANDARD MANHOLE ELEVATION

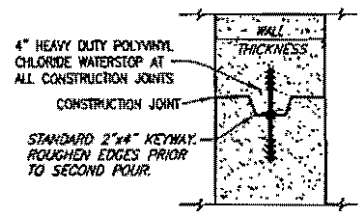
4', 5' & 6' DIAMETER MANHOLES



CONE TRANSITION

5' & 6' DIAMETER MANHOLES ONLY

MANHOLE CONE NOTE:
FOR MANHOLES WITH DIAMETER LARGER THAN 48" LD, A PRE-CAST FLAT TOP MANHOLE COVER AS PER A.S.T.M. C478 CAN BE INSTALLED.



MANHOLE CONSTRUCTION JOINT

KEYWAY WITH WATERSTOP

Do we want flexible fittings?

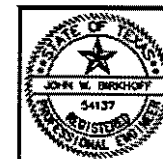
Sewer
WATER MANHOLE (CAST IN PLACE)

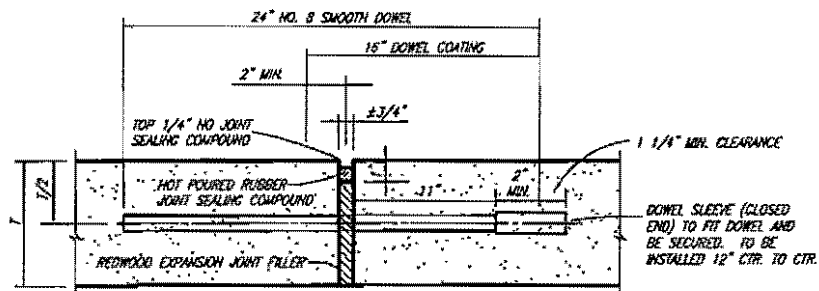
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TOWN OF ADDISON, TEXAS			
MARSH LAKE WATER LINE & BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE			
GENERAL NOTES & DETAILS			
SHIMEK, JACOBS & FINKLEA, L.L.P. CONSULTING ENGINEERS Dallas, Texas			
DESIGNED BY:	J.W.B.	PROJECT:	1999 123
DRAWN BY:	S.J. & F.	DATE:	FEBRUARY, 2000
		SHEET NO.	15
		OF 17 SHEETS	

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.

DATE: _____



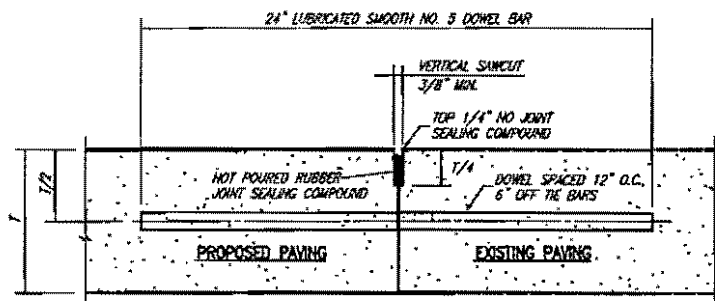


TRANSVERSE EXPANSION JOINT NOTES:

1. DOWELS AND REINFORCING BARS SHALL BE SUPPORTED BY AN APPROVED DEVICE.
2. TRANSVERSE EXPANSION JOINTS SHALL BE SPACED AT 400 FT. MAXIMUM AND AT ALL INTERSECTIONS.

TRANSVERSE EXPANSION JOINT

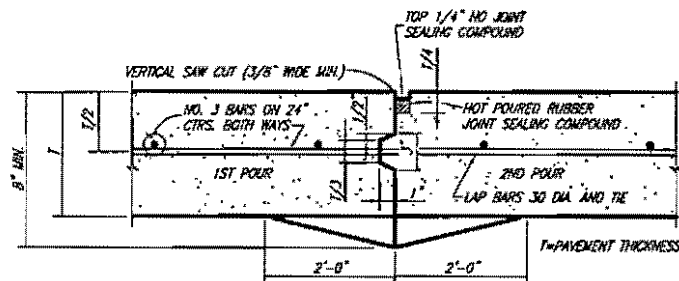
NO SCALE



NOTE: DOWEL BARS SHALL BE DRILLED INTO PAVEMENT HORIZONTALLY BY USE OF A MECHANICAL DRILLING BY HAND IS NOT ACCEPTABLE. PUSHING DOWEL BARS INTO GREEN CONCRETE IS NOT ACCEPTABLE.

CONNECTION TO EXISTING PAVEMENT

NOT TO SCALE

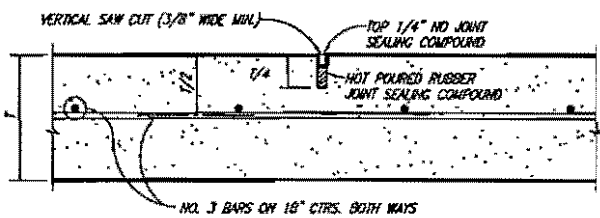


CONSTRUCTION JOINT NOTES:

1. CONTRACTOR SHALL PROTECT KEYWAY PRIOR TO SECOND POUR. IF LONGITUDINAL KEYWAY IS DAMAGED, CONTRACTOR SHALL REPAIR WITH THE USE OF LONGITUDINAL BUTT JOINT (DRILL DOWELS INTO FIRST POUR).
2. THICKENED EDGES ARE REQUIRED FOR FUTURE WIDENING ONLY.

CONSTRUCTION JOINT

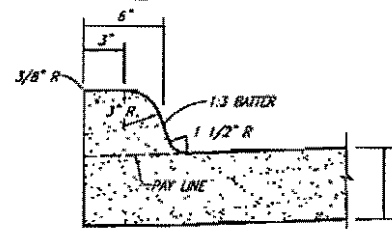
NO SCALE



TRANSVERSE JOINTS SPACED 15 FT. C-C (MAX.)
LONGITUDINAL JOINTS SPACED 20 FT. C-C (MAX.)

SAWED DUMMY JOINT

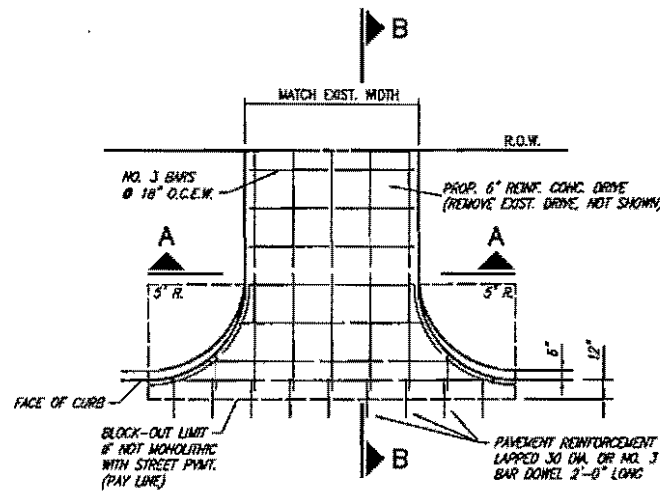
NO SCALE



INTEGRAL CURB

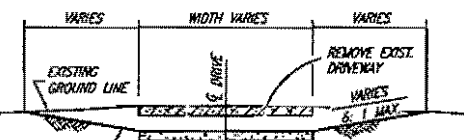
NO SCALE

rebar?

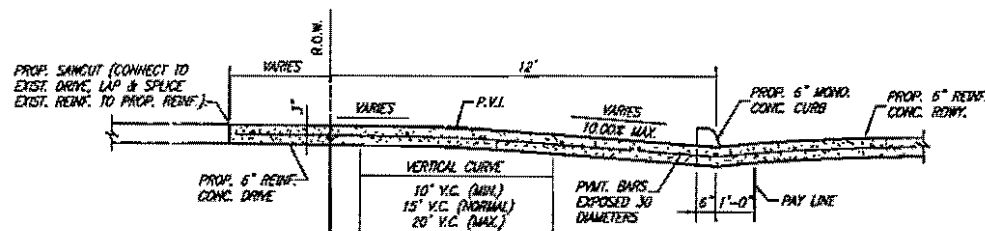


DRIVEWAY RETURN TO STREET

NOTE: FINISHED GRADING WITHIN THE R.O.W. SHALL BE BLOCK SODDED TO RESTORE THE LANDSCAPING TO ITS PRE-CONSTRUCTION APPEARANCE OR BETTER.



SECTION A-A

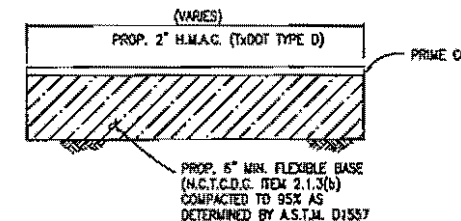


SECTION B-B

DRIVEWAY RETURN SECTIONS

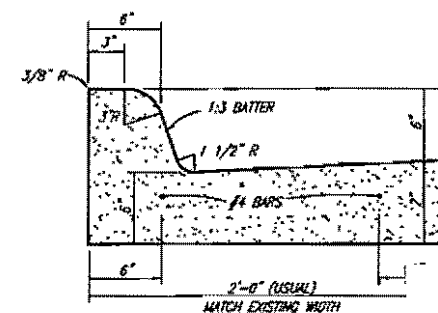
Do we want to do thickened edge sidewalk with no exp. mat. + dowel pinned to curb?

- GENERAL PAVING NOTES**
1. CONTRACTOR SHALL SAWCUT ALL PAVEMENT. DURING REMOVAL OF CONCRETE, CONTRACTOR SHALL EXPOSE ALL REINFORCING STEEL.
 2. SAW CUT SHALL BE FULL DEPTH OF CONCRETE OR ASPHALT PAVEMENT.
 3. DURING RECONSTRUCTION, NEW REINFORCING STEEL SHALL BE TIED TO EXISTING STEEL. IF NO EXISTING STEEL IN PAVEMENT, CONTRACTOR SHALL CONSTRUCT LONGITUDINAL BUTT JOINTS UTILIZING NO. 8 SMOOTH BARS.
 4. CONCRETE SHALL BE 10" REINFORCED, 4000 P.S.I. STRENGTH AT 28 DAYS.



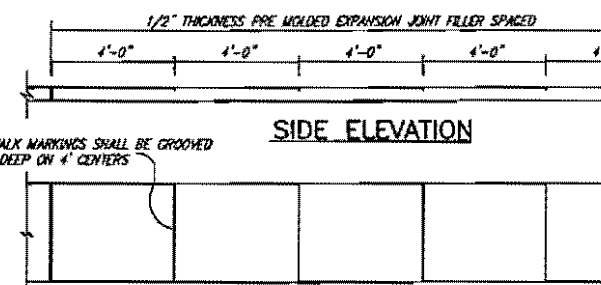
ASPHALT PAVEMENT REPAIR OUTSIDE PIPE REPAIR

NOT TO SCALE



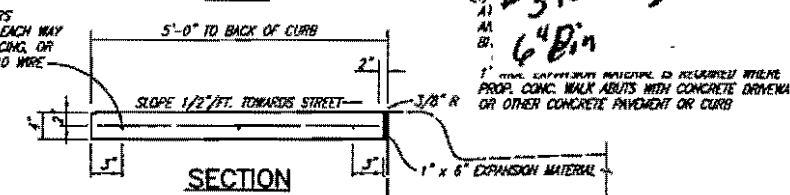
CONCRETE CURB AND G

NO SCALE



SIDE ELEVATION

PLAN



CONCRETE SIDEWALK

NO SCALE

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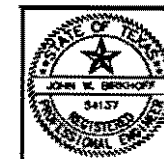
TOWN OF ADDISON, TEXAS
BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE

DETAILS

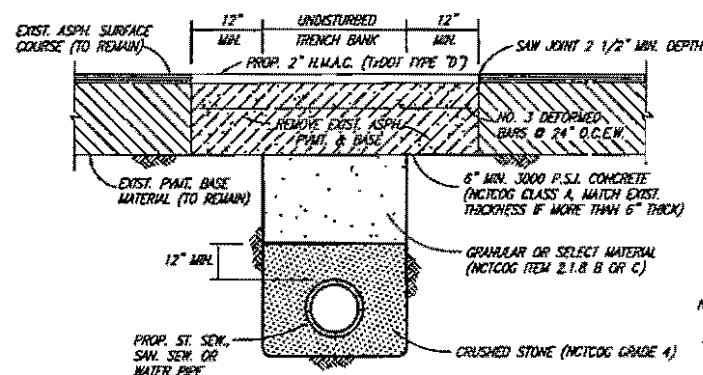
BIRKHOFF, HENDRICKS & CONWAY, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas

DESIGNED BY: J.W.B. PROJECT: 1999 123 SHEET NO. 16
DRAWN BY: B.H. & C. DATE: JUNE, 2001 OF 17 SHEETS

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.
DATE: _____

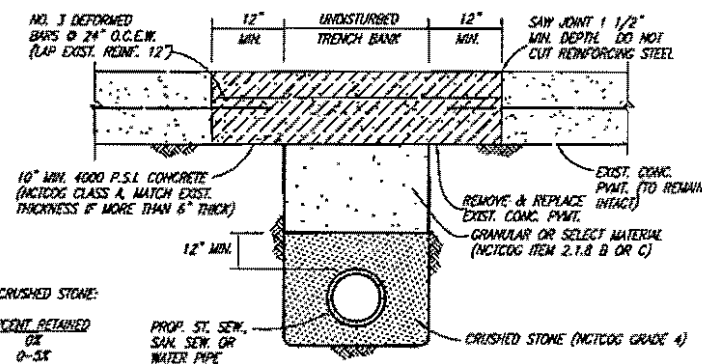


06/12/01 J.C. 99123-15-ADDNG BLDGS-ASH-REPAIR-BUTT-CONST-CURB-OUTSIDE-PIPE-REPAIR-11-MK000000



ASPHALT PAVEMENT REPAIR

NO SCALE

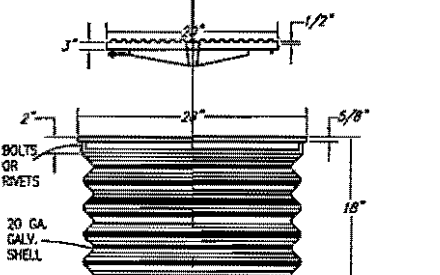
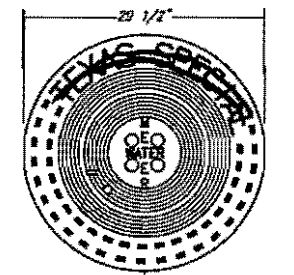


CONCRETE PAVEMENT REPAIR

NO SCALE

NCTCOG GRADE 4 CRUSHED STONE:

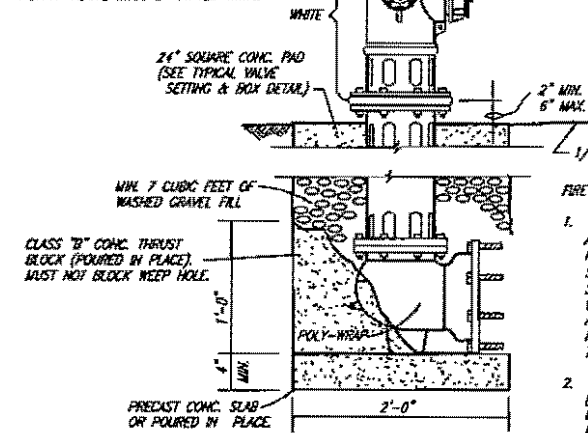
SI-EVE SIZE	PERCENT RETAINED
1 1/2"	0-5%
1"	40-75%
NO. 4	90-100%
NO. 8	95-100%



METER BOX RING & COVER
METER BOX DETAILS

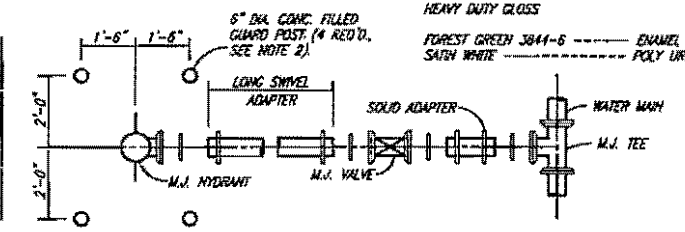
NO SCALE

BRACKET TO FLANGE FOREST GREEN, NOZZLE CAPS WHITE COLOR CODE FOR MAIN SIZE ACCORDING TO ADDISON STANDARDS. REMAINDER OF HYDRANT ABOVE GROUND PAINTED WHITE.



- IN GENERAL ALL FIRE HYDRANTS SHALL CONFORM TO ANNA STANDARDS SPECIFICATIONS FOR FIRE HYDRANTS FOR ORDINARY WATER WORKS SERVICE FOR WATER AND SANITARY SEWER IMPROVEMENTS. FIRE HYDRANTS SHALL HAVE A 5-1/4" MINIMUM VALVE OPENING AND WITH A BARREL APPROXIMATELY 7" INSIDE DIAMETER. ALL HYDRANTS SHALL BE EQUIPPED WITH A BREAKAWAY FLANGE. ALL HYDRANTS SHALL BE APPROVED BY THE TOWN OF ADDISON.
 - GUARD POSTS SHALL BE 8' L.F. OF 6" DIA. STEEL PIPE (3" ABOVE & BELOW GROUND LEVEL). POST SHALL BE ENCASED IN 16" DIA. CONCR. PIER TO A DEPTH OF 12" BELOW POST BOTTOM. REINFC. CONCR. PIER WITH 2 NO. 8 BARS (12" LONG) THRU POST INTO PIER. POST ABOVE GROUND LEVEL SHALL BE PAINTED ALUMINUM WITH 2-2 INCH BANDS OF RED AND WHITE REFLECTIVE TAPE.
 - ACCEPTABLE FIRE HYDRANTS IN ADDISON ARE MUELLER, CLOW, AND WATERGOS.
 - FIRE HYDRANT PAINT: ULTRA-GARD. MUST NOT BE HEAVY DUTY GLOSS.
- FOREST GREEN 3844-6 ----- ENAMEL
SAVEN WHITE ----- POLY URETHANE

We want Mueller

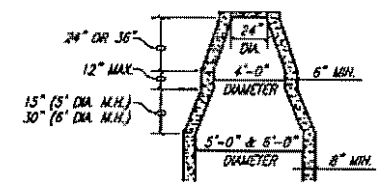


TYPICAL FIRE HYDRANT INSTALLATION

NO SCALE

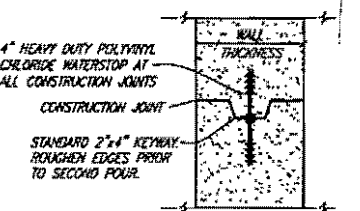
inside drop?

Grade lot



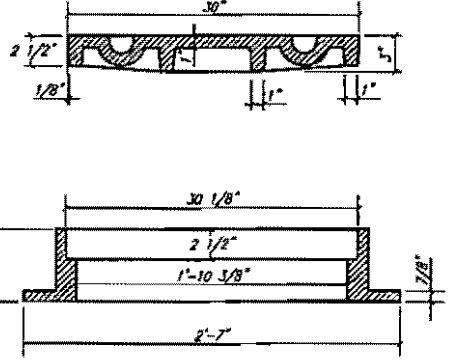
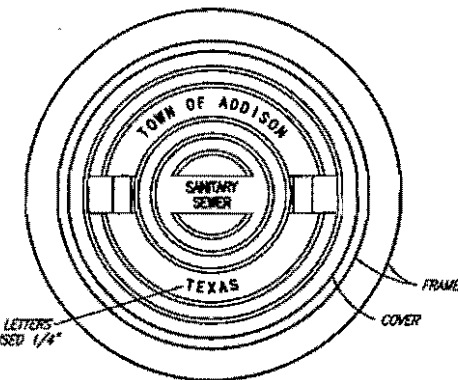
CONE TRANSITION

5' & 6' DIAMETER MANHOLES ONLY



MANHOLE CONSTRUCTION JOINT

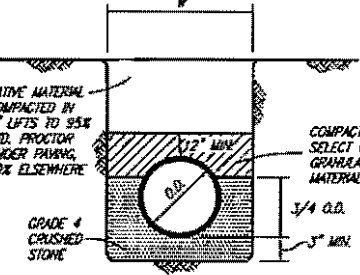
KEYWAY WITH WATERSTOP



MANHOLE RING AND COVER

NO SCALE

NOTE: ASSEMBLY SHALL BE BASS & HAYS MODEL 400-24 (W/ PEEK SLOTS) OR EQUAL (TOTAL WEIGHT 397 LBS.)

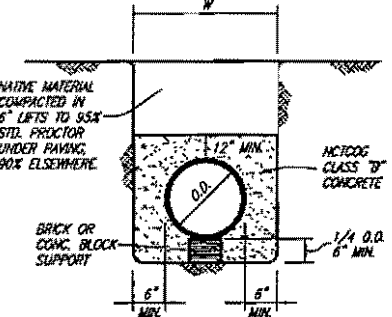


CLASS B-1 EMBEDMENT

P.V.C. PIPE ONLY
STD. P.V.C. WATER

EMBEDMENT NOTES:

- DEPTH OF TRENCH BELOW PIPE:
 - 3" MIN. FOR 27" PIPE & SMALLER
 - 4" MIN. FOR 30" TO 60" PIPE
 - 6" MIN. FOR 66" PIPE & LARGER
- MAXIMUM TRENCH WIDTH (W) SHALL BE 24" PLUS O.D. FOR PIPE ≤ 36" I.D. AND 36" PLUS O.D. FOR PIPE > 36" I.D.



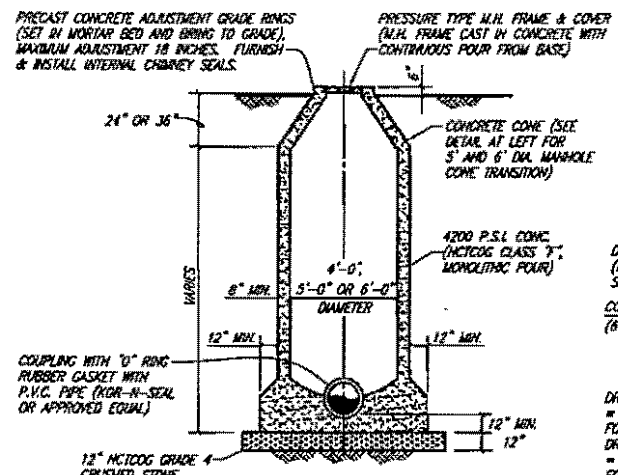
CLASS G EMBEDMENT

CONCRETE ENCASUREMENT

NCTCOG GRADE 4 CRUSHED STONE:

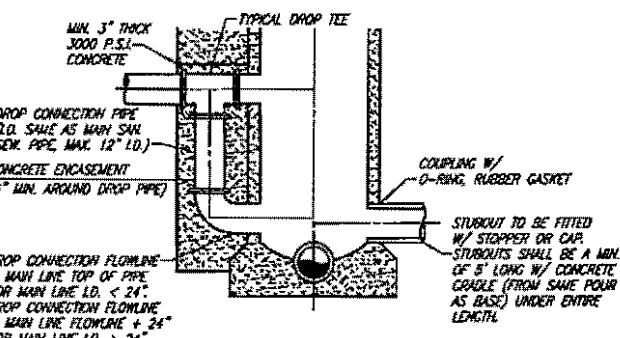
SI-EVE SIZE	PERCENT RETAINED
1 1/2"	0-5%
1"	40-75%
NO. 4	90-100%
NO. 8	95-100%

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STANDARD MANHOLE ELEVATION

4', 5' & 6' DIAMETER MANHOLES



DROP MANHOLE ELEVATION

4', 5' & 6' DIAMETER MANHOLES

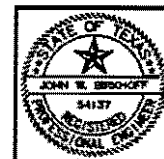
SANITARY SEWER MANHOLE (CAST IN PLACE)

PRECAST MANHOLES NOT ACCEPTABLE IN ADDISON. MANHOLES SHALL BE PLUMB TO WITHIN 1 INCH FOR EVERY 5 FEET OF VERTICAL DEPTH.

NO SCALE

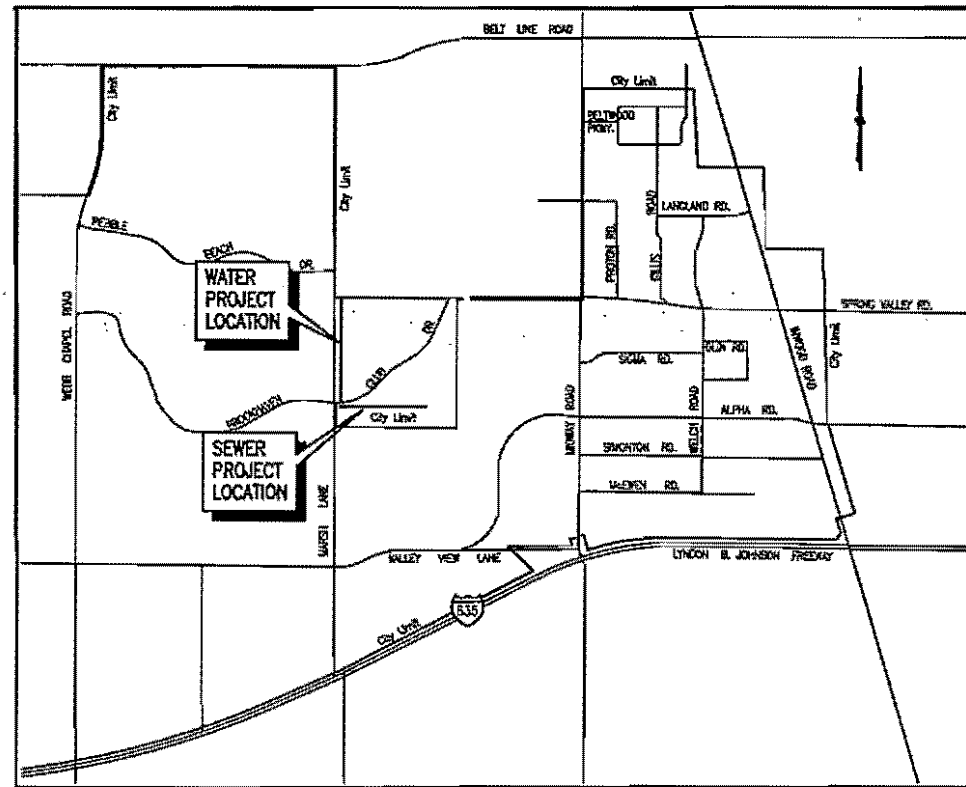
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DATE: _____



TOWN OF ADDISON, TEXAS		
BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE		
DETAILS		
BIRKHOFF, HENDRICKS & CONWAY, L.L.P. CONSULTING ENGINEERS Dallas, Texas		
DESIGNED BY: J.W.B.	PROJECT: 1999 123	SHEET NO. 17
DRAWN BY: B.H. & C.	DATE: JUNE, 2001	OF 17 SHEETS

Addison!



LOCATION MAP

SHEET INDEX

SHEET DESCRIPTION	SHEET NO.
MARSH LANE WATER LINE STA. 0+00 TO 5+00	1
MARSH LANE WATER LINE STA. 5+00 TO 10+00	2
MARSH LANE WATER LINE STA. 10+00 TO 15+00	3
MARSH LANE WATER LINE STA. 15+00 TO 20+00	4
MARSH LANE WATER LINE STA. 20+00 TO 23+70.59/ ADDISON ROAD STORM SEWER IMPROVEMENTS	5
BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE STA. 0+00 TO 5+00	6
BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE STA. 5+00 TO 10+00	7
BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE STA. 10+00 TO 13+79.76	8
AREA ENLARGEMENTS AND NOTES	9
ACCESS AND STORAGE AREA	10
ACCESS AND STORAGE AREA	11
VALVE ACTUATOR REPLACEMENT (LOCATION MAP)	12
VALVE ACTUATOR REPLACEMENT (PHOTOS)	13
GENERAL NOTES & DETAILS	14
DETAILS	15
DETAILS	16

PRELIMINARY
FOR INTERIM REVIEW
NOT FOR CONSTRUCTION PURPOSES
NOT FOR BIDDING PURPOSES
NOT FOR PERMIT PURPOSES



THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.
DATE: _____

CONSTRUCTION PLANS FOR
**MARSH LANE WATER LINE
& BROOKHAVEN CLUB DRIVE
SANITARY SEWER LINE**

Reviewed 11/15/00

JOHN - PLEASE SUBMIT FULL-SIZE PLANS ON NEXT SUBMITTAL. IT IS TOO HARD TO EVALUATE MAIN LINE ALIGNMENTS & EASEMENT LOCATIONS ON THIS HALF-SCALE!

CITY COUNCIL
R. SCOTT WHEELER, MAYOR
FRANK R. KLEIN, MAYOR PRO TEM
DIANE MALLORY GLYNDA TURNER
BOB BARRETT FREDRIC SILVER
CATHY WAYS

CITY MANAGER
RON WHITEHEAD

**CITY ENGINEER/
DIRECTOR OF PUBLIC WORKS**
MICHAEL MURPHY, P.E.

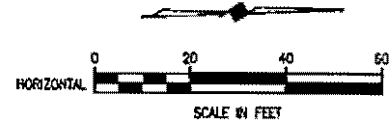
CITY SECRETARY
CARMEN MORAN

SHIMEK, JACOBS & FINKLEA, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas

~~FEBRUARY 2000~~
DECEMBER, 2000



MARSH LANE



SURVEY CONTROL POINTS

CP 1	PK NAIL SET	N 10000.0000	E 10000.0000
CP 60	PK NAIL SET	N 10358.3388	E 10013.1780

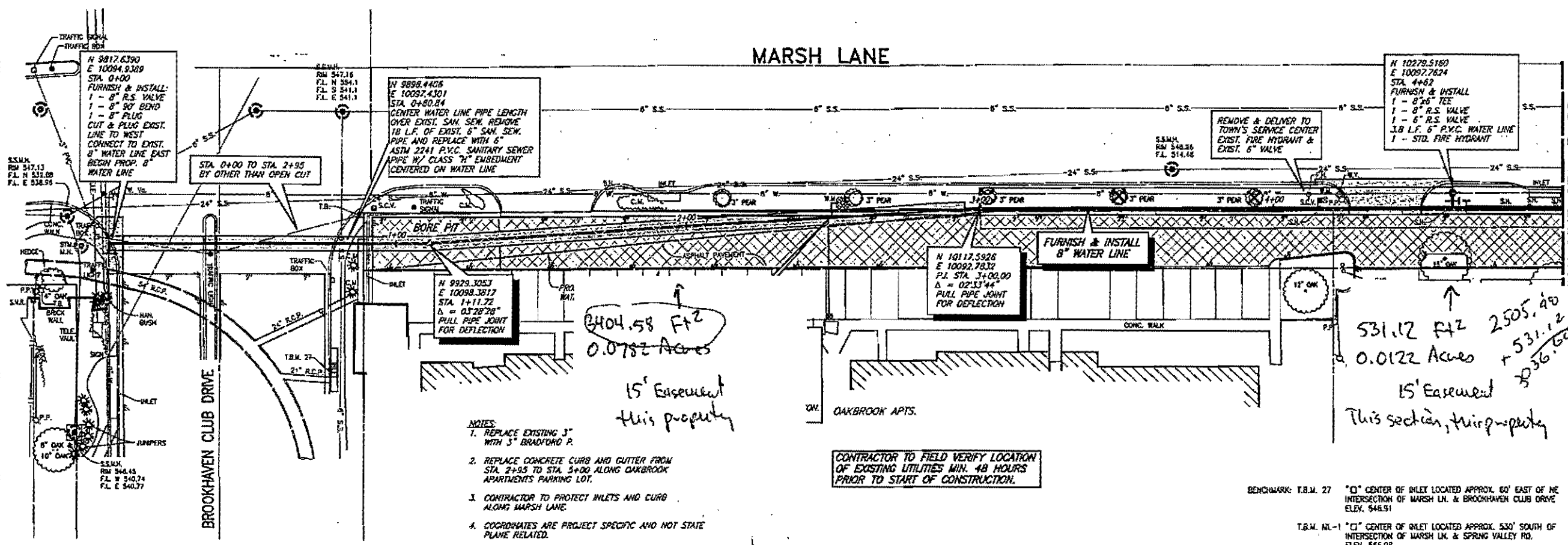
WATER SERVICES

LOCATION	PROP. 2" SERVICE (L.F.)
STA. 2+53.8 LT.	7.5
STA. 4+15.3 LT.	4.2

FURNISH & INSTALL: PROP. 2" OUTLET, NEW 2" HIGH DENSITY POLYETHYLENE WATER PIPE, AND METER BOX. CONNECT TO EXISTING WATER LINE AT EACH WATER SERVICE LOCATION. TOWN TO FURNISH WATER METER.

- CONCRETE PAVEMENT, CURB & WALK REMOVAL AND REPLACEMENT
- H.M.A.C. OVERLAY, REMOVE EXISTING H.M.A.C. TO DEPTH OF 2 INCHES AND REPLACE
- SHADING INDICATES APPROX. WIDTH OF TRACK HOE
- TREE REMOVAL AND REPLACEMENT

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- NOTES:**
- REPLACE EXISTING 3" WITH 3" BRADFORD P.
 - REPLACE CONCRETE CURB AND CUTTER FROM STA. 2+95 TO STA. 5+00 ALONG OAKBROOK APARTMENTS PARKING LOT.
 - CONTRACTOR TO PROTECT INLETS AND CURB ALONG MARSH LANE.
 - COORDINATES ARE PROJECT SPECIFIC AND NOT STATE PLANE RELATED.

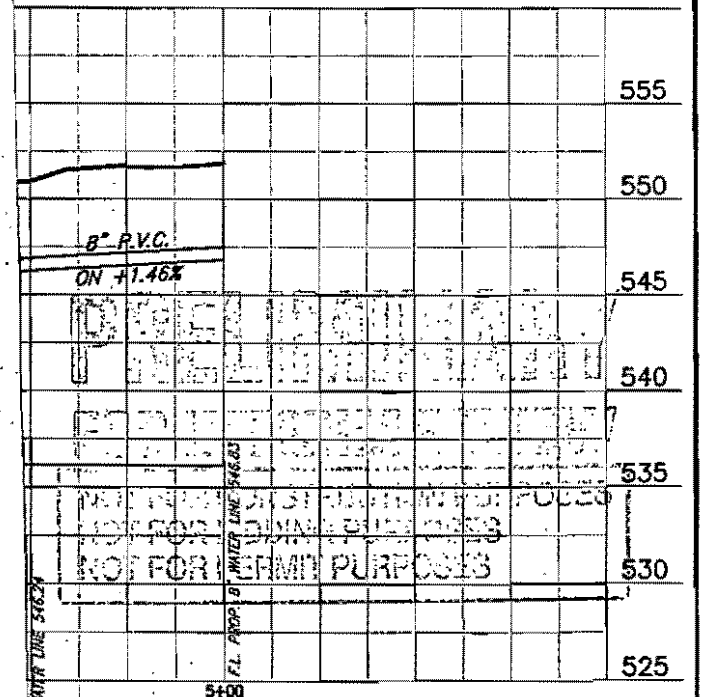
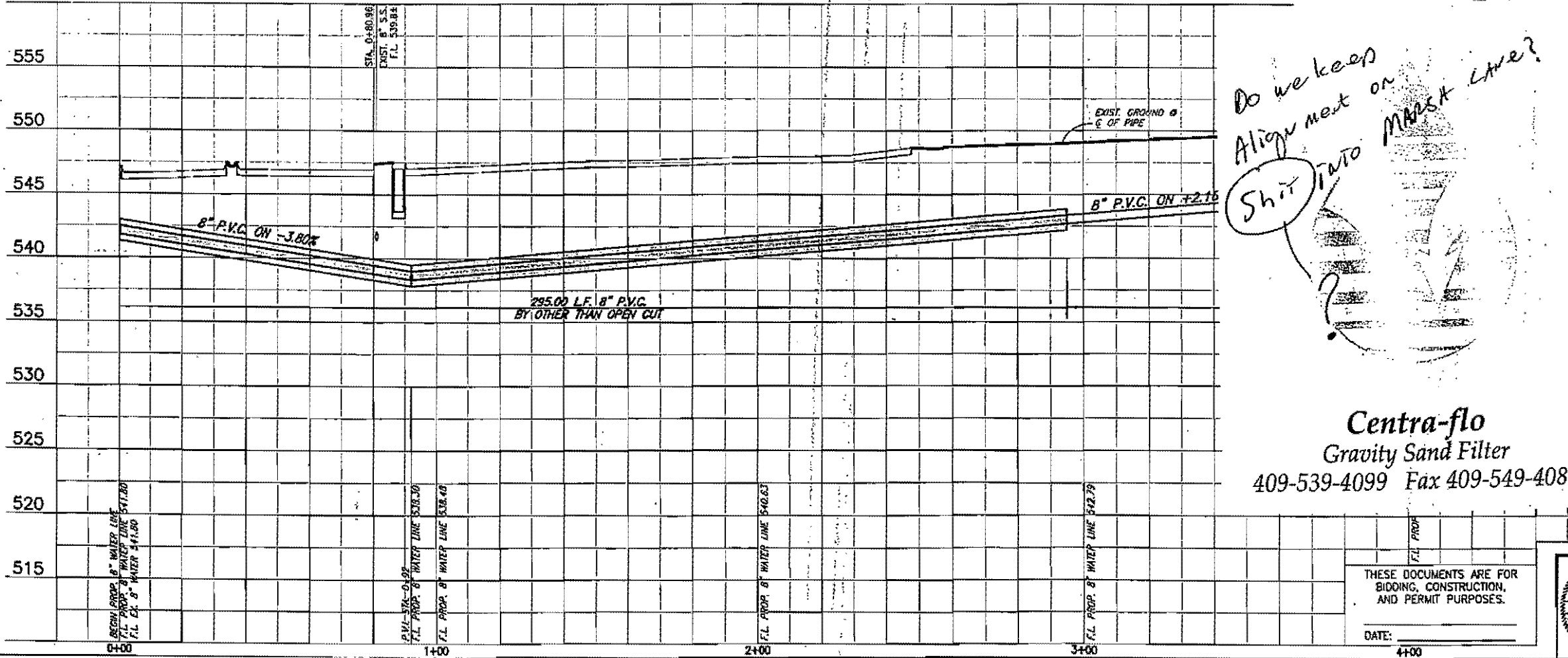
CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING UTILITIES MIN. 48 HOURS PRIOR TO START OF CONSTRUCTION.

BENCHMARK T.B.M. 27 "O" CENTER OF INLET LOCATED APPROX. 60' EAST OF THE INTERSECTION OF MARSH LN. & BROOKHAVEN CLUB DRIVE ELEV. 546.91

T.B.M. NL-1 "O" CENTER OF INLET LOCATED APPROX. 530' SOUTH OF INTERSECTION OF MARSH LN. & SPRING VALLEY RD. ELEV. 565.08

3404.58 Ft²
0.0782 Acres
15' Easement
this property

531.12 Ft²
0.0122 Acres
15' Easement
This section, this property



Centra-flo
Gravity Sand Filter
409-539-4099 Fax 409-549-4089

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.

DATE: _____



TOWN OF ADDISON, TEXAS

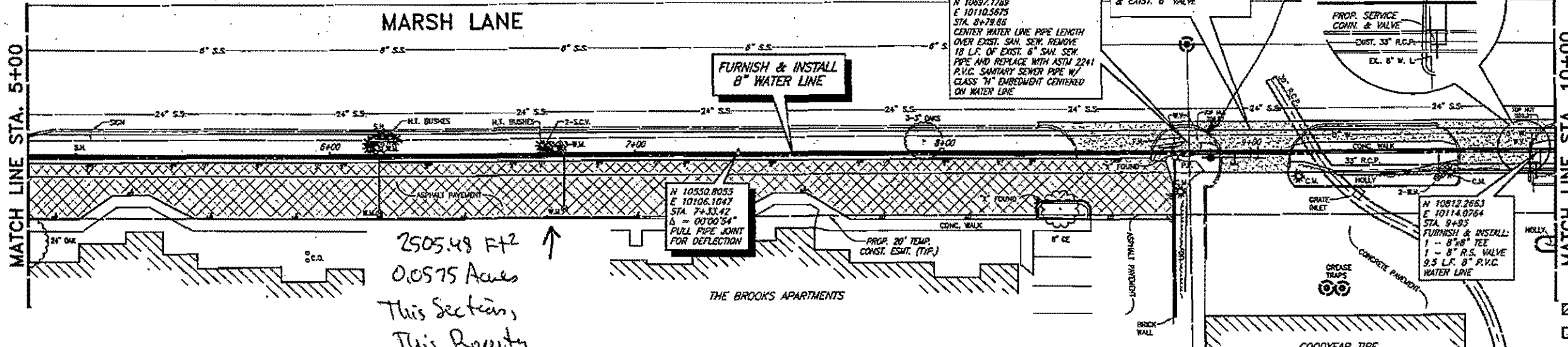
MARSH LANE WATER LINE & BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE

MARSH LANE WATER LINE PLAN - PROFILE
STA. 0+00 TO STA. 5+00

SHIMEK, JACOBS & FINKLEA, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas

DESIGNED BY: J.W.B. PROJECT: 1999 123 SHEET NO. 1
DRAWN BY: S.J. & F. DATE: FEBRUARY, 2000 OF 16 SHEETS

REvised 05/20/00 GUD 99123-01.01WG SCALE: 1"=20' BLOCKS: PROGRAM



2505.48 FT²
0.0575 Acres
This Section,
This Property

CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING UTILITIES MIN. 48 HOURS PRIOR TO START OF CONSTRUCTION.

1. REPLACE SIDEWALK FROM STA. 9+13.51 TO STA. 9+87.65 AND STA. 9+91.78 TO STA. 10+00.
2. CONTRACTOR TO PROTECT INLETS AND CURB ALONG MARSH LANE.
3. COORDINATES ARE PROJECT SPECIFIC AND NOT STATE PLANE RELATED.

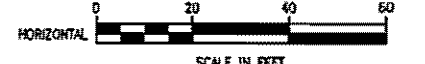
N 10717.3104
E 10111.1813
STA. 8+72
FURNISH & INSTALL:
1 - 8"x6" TEE (UP)
1 - 8" R.S. VALVE
1 - 6" R.S. VALVE
2 - 6" 90° BENDS
14 L.F. 6" P.V.C. WATER LINE
1 - STD. FIRE HYDRANT
REMOVE & DELIVER TO TOWN'S SERVICE CENTER
EXIST. FIRE HYDRANT & EXIST. 6" VALVE

N 10697.1789
E 10110.5675
STA. 8+78.86
CENTER WATER LINE PIPE LENGTH OVER EXIST. SAN. SEW. REMOVE 18 L.F. OF EXIST. 6" SAN. SEW. PIPE AND REPLACE WITH ASTM 2241 P.V.C. SANITARY SEWER PIPE W/ CLASS "M" BEDDING CENTERED ON WATER LINE

N 10350.8055
E 10106.1047
STA. 7+33.42
Δ = 00°00'54"
PULL PIPE JOINT FOR DEFLECTION

N 10812.2663
E 10114.0764
STA. 9+95
FURNISH & INSTALL:
1 - 8"x8" TEE
1 - 8" R.S. VALVE
9.5 L.F. 8" P.V.C. WATER LINE

WHAT DO WE DO WITH THE EXIST. BRICK WALL?



SURVEY CONTROL POINTS

CP 60	PK NAIL SET	N 10358.1388 E 10013.1780
CP 561	PK NAIL SET	N 10758.9079 E 10023.8270

WATER SERVICES

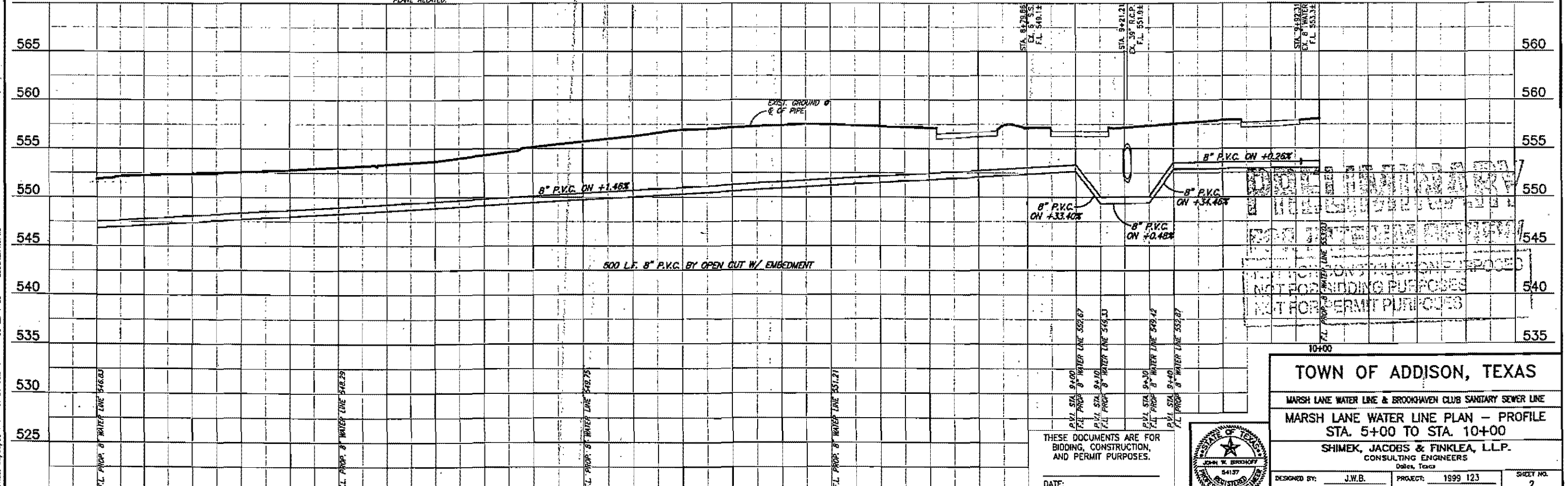
LOCATION	PROP. 2" SERVICE (L.F.)
STA. 6+16.7 LT.	5.3
STA. 6+16.5 RT.	18.1
STA. 6+76 RT.	2.2
STA. 6+77.4 LT.	17.1
STA. 9+81.4 RT.	8.4

FURNISH & INSTALL: PROP. 2" OUTLET, NEW 2" HIGH DENSITY POLYETHYLENE WATER PIPE, AND METER BOX. CONNECT TO EXISTING WATER LINE AT EACH WATER SERVICE LOCATION. TOWN TO FURNISH WATER METER.

- H.M.A.C. REMOVAL AND REPLACEMENT
- CONCRETE PAVEMENT, CURB & WALK REMOVAL AND REPLACEMENT
- H.M.A.C. OVERLAY, REMOVE EXISTING H.M.A.C. TO DEPTH OF 2 INCHES AND REPLACE
- SHADING INDICATES APPROX. WIDTH OF TRACK HOE

These plans and related specifications were prepared for construction of this specific project only. Reuse of these documents is not permitted without written authorization of Shimek, Jacobs & Finklea, L.L.P.

BENCHMARK: T.B.M. 27 "C" CENTER OF INLET LOCATED APPROX. 60' EAST OF THE INTERSECTION OF MARSH LN. & BROOKHAVEN CLUB DRIVE ELEV. 546.91
T.B.M. M-1 "C" CENTER OF INLET LOCATED APPROX. 830' SOUTH OF INTERSECTION OF MARSH LN. & SPRING VALLEY RD. ELEV. 566.08



NOT FOR BIDDING PURPOSES
NOT FOR PERMIT PURPOSES

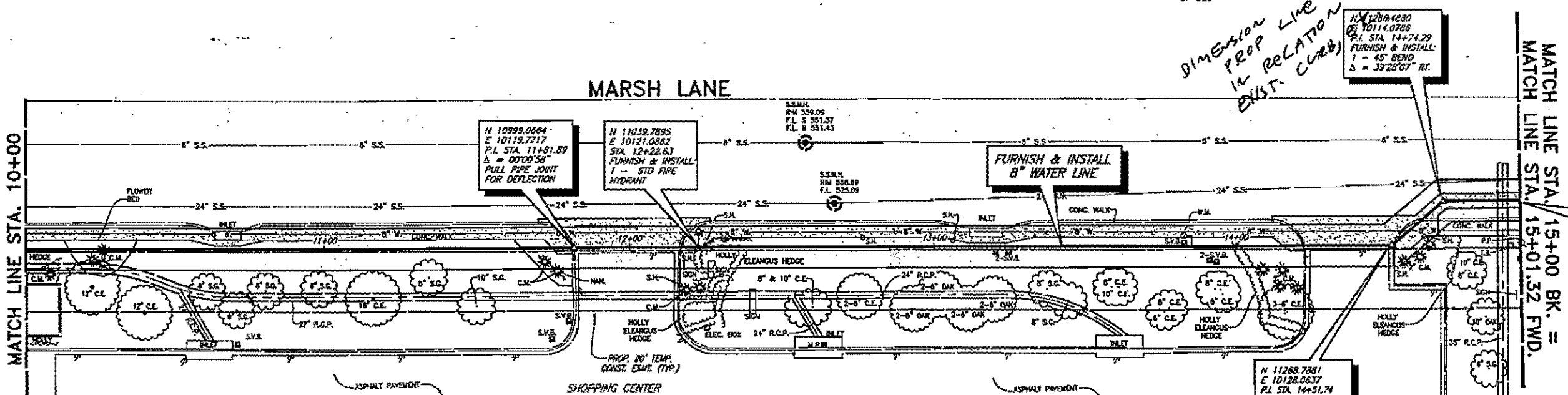
TOWN OF ADDISON, TEXAS
MARSH LANE WATER LINE & BROOKHAVEN CLUB SANITARY SEWER LINE
MARSH LANE WATER LINE PLAN - PROFILE
STA. 5+00 TO STA. 10+00
SHIMEK, JACOBS & FINKLEA, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.



DESIGNED BY: J.W.B.	PROJECT: 1999 123	SHEET NO. 2
DRAWN BY: C.L.F.	DATE: FEBRUARY 2000	

REVISION 06/20/00 CAD 99123-02.DWG SCALE: 1"=20' BLOCKS:PROFW



STATION EQUATION
 N 11312.1886, E 10114.597
 MATCH LINE STA. 15+00 BK. =
 MATCH LINE STA. 15+01.32 FWD.

WATER SERVICES	
LOCATION	PROP. 2" SERVICE (L.F.)
STA. 13+85.4 LT.	5.1

FURNISH & INSTALL: PROP. 2" OUTLET, NEW 2" HIGH DENSITY POLYETHYLENE WATER PIPE, AND METER BOX. CONNECT TO EXISTING WATER LINE AT EACH WATER SERVICE LOCATION, TOWN OF ADDISON TO FURNISH WATER METER.

CONCRETE PAVEMENT, CURB & WALK REMOVAL AND REPLACEMENT
 SHADING INDICATES APPROX. WIDTH OF TRACK HOE

These plans and related specifications were prepared for construction of this specific project only. Reuse of these documents is not permitted without written authorization of Shimek, Jacobs & Finklea, LLP.

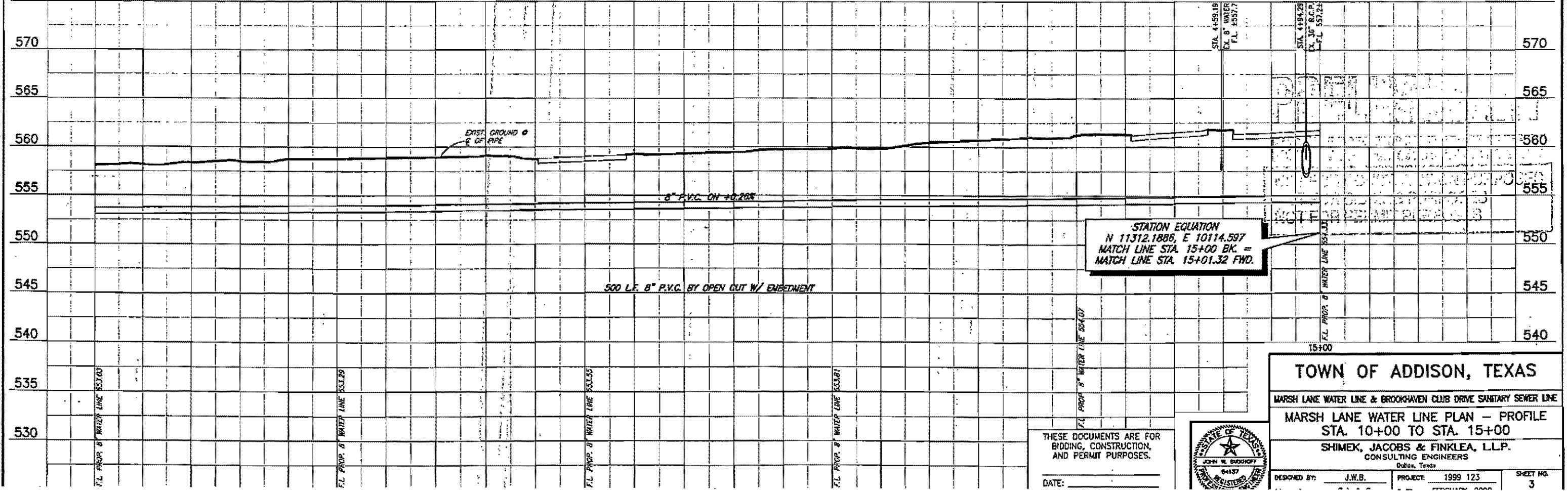


SURVEY CONTROL POINTS
 CP 829 PK NAIL SET N 11207.0265 E 10038.2337
 CP 830 PK NAIL SET N 10940.2447 E 10179.0812

- NOTES:**
- CONTRACTOR SHALL RECONSTRUCT AND REPLACE FLOWER BEDS WITH LIKE PLANTS AND FLOWERS AS DIRECTED BY TOWN OF ADDISON. FLOWER BEDS SHALL COMPOSED OF 8 INCHES OF IMPORTED TOP SOIL FOR BEDDING PLANTS.
 - CONTRACTOR SHALL PROTECT INLETS AND CURB ALONG MARSH LANE.
 - REPLACE 5' SIDEWALK FROM STA. 10+00 TO STA. 11+81.25, STA. 12.18.78 TO STA. 14+22.26 AND STA. 14+51.74 TO STA. 14+68.77, 3.84' RT.
 - COORDINATES ARE PROJECT SPECIFIC AND NOT STATE PLANE RELATED.

CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING UTILITIES MIN. 48 HOURS PRIOR TO START OF CONSTRUCTION.

BENCHMARK: T.B.M. 27 "O" CENTER OF INLET LOCATED APPROX. 60' EAST OF NE INTERSECTION OF MARSH LN. & BROOKHAVEN CLUB DRIVE ELEV. 546.91
 T.B.M. ML-1 "O" CENTER OF INLET LOCATED APPROX. 330' SOUTH OF INTERSECTION OF MARSH LN. & SPRING VALLEY RD. ELEV. 566.08

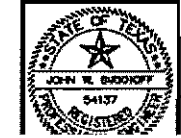


STATION EQUATION
 N 11312.1886, E 10114.597
 MATCH LINE STA. 15+00 BK. =
 MATCH LINE STA. 15+01.32 FWD.

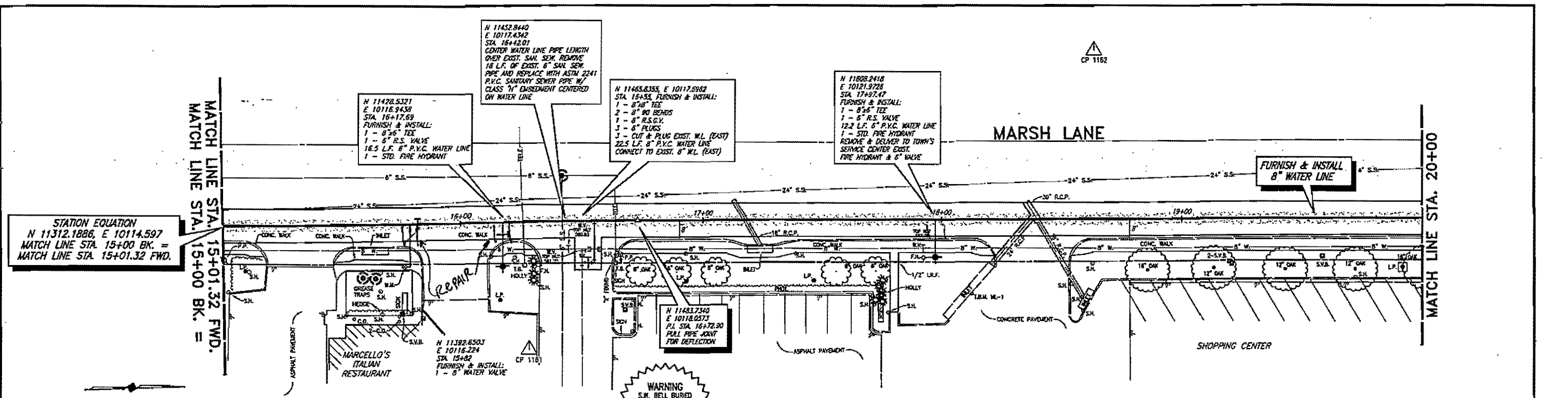
TOWN OF ADDISON, TEXAS
 MARSH LANE WATER LINE & BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE
MARSH LANE WATER LINE PLAN - PROFILE
 STA. 10+00 TO STA. 15+00
SHIMEK, JACOBS & FINKLEA, LLP.
 CONSULTING ENGINEERS
 Dallas, Texas

DESIGNED BY: J.W.B. PROJECT: 1999 123 SHEET NO. 3

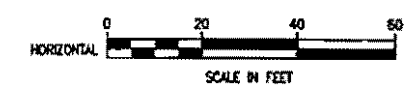
THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.
 DATE: _____



E:\2005\07\01\00 GAO 99123-04.DWG SCALE: 1"=20' BLOODS:PROJ.DWG



STATION EQUATION
 N 11312.1886, E 10114.597
 MATCH LINE STA. 15+00 BK. =
 MATCH LINE STA. 15+01.32 FWD.



SURVEY CONTROL POINTS
 CP 1161 PK NAIL SET N 11437.5911 E 10170.6581
 CP 1162 PK NAIL SET N 11676.7088 E 10054.0723

CONCRETE PAVEMENT, CURB & WALK
 REMOVAL AND REPLACEMENT
 SHADING INDICATES APPROX. WIDTH OF
 TRACK HOE

- NOTES:**
 1. CONTRACTOR TO PROTECT INLETS ALONG MARSH LANE
 2. COORDINATES ARE PROJECT SPECIFIC AND NOT STATE
 PLANE RELATED.

WARNING
 S.W. BELL BURIED
 TELEPHONE CABLE
 CALL ENTERPRISE 9800
 72 HOURS PRIOR TO
 EXCAVATION IN VICINITY
 OF STA. 16+26 &
 STA. 16+63

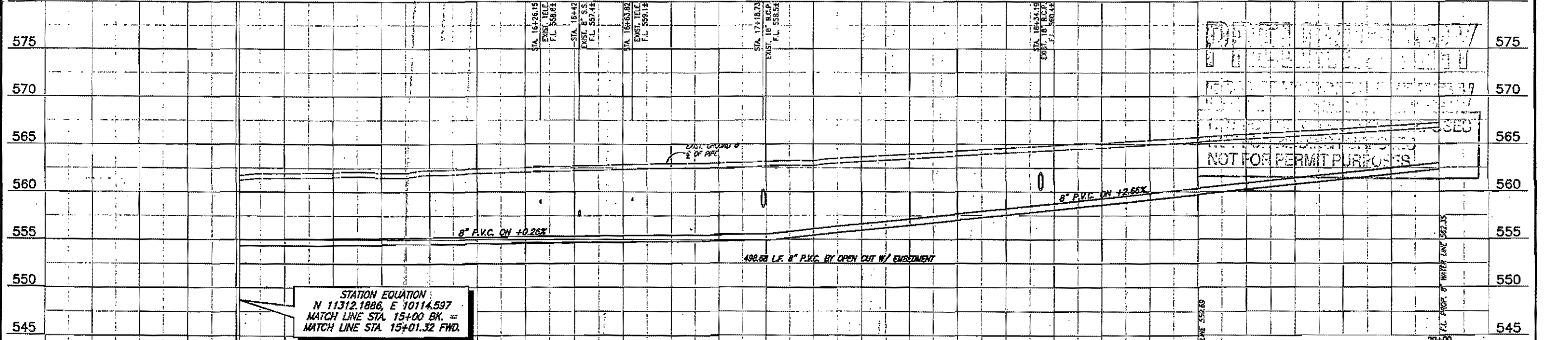
WATER SERVICES	
LOCATION	PROP. 2" SERVICE (L.F.)
STA. 15+76.14 RT.	17.7'

FURNISH & INSTALL PROP. 2" OUTLET, ASW 2" HIGH DENSITY POLYETHYLENE WATER PIPE AND METER BOX. CONNECT TO EXISTING WATER LINE AT EACH WATER SERVICE LOCATION. TOWN TO FURNISH WATER METER.

CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING UTILITIES MIN. 48 HOURS PRIOR TO START OF CONSTRUCTION.

BENCHMARK: T.B.M. 27 "D" CENTER OF INLET LOCATED APPROX. 60' EAST OF NE INTERSECTION OF MARSH LN. & BROOKHAVEN CLUB DRIVE ELEV. 546.9'
 T.B.M. M-1 "D" CENTER OF INLET LOCATED APPROX. 530' SOUTH OF INTERSECTION OF MARSH LN. & SPRING VALLEY RD. ELEV. 556.08

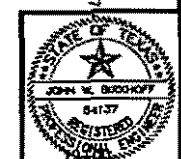
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STATION EQUATION
 N 11312.1886, E 10114.597
 MATCH LINE STA. 15+00 BK. =
 MATCH LINE STA. 15+01.32 FWD.

NOT FOR PERMIT PURPOSES

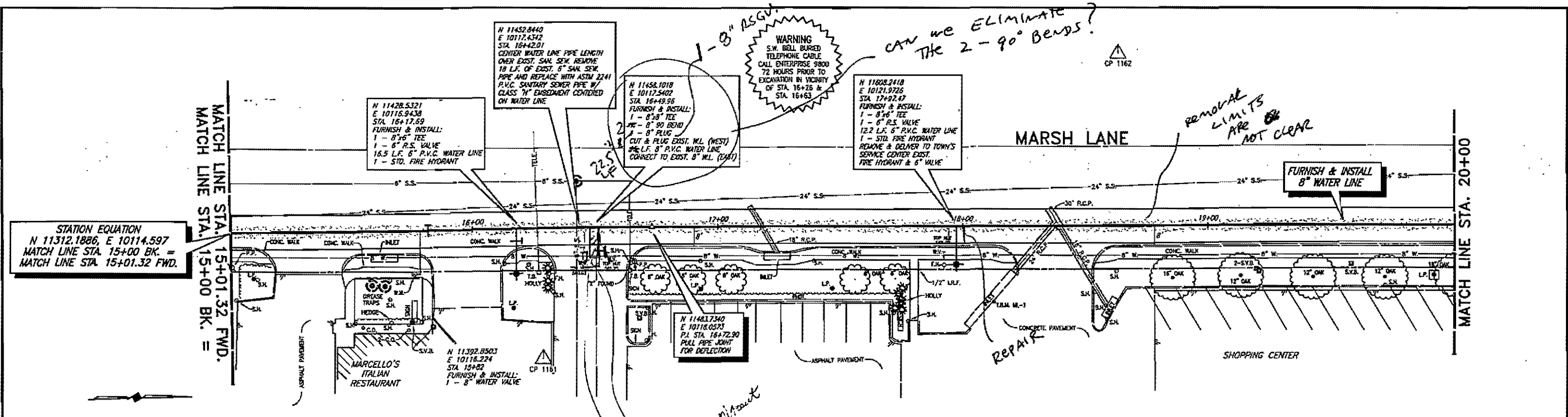
TOWN OF ADDISON, TEXAS
 MARSH LANE WATER LINE & BROOKHAVEN CLUB SANITARY SEWER LINE
 MARSH LANE WATER LINE PLAN - PROFILE
 STA. 15+00 TO STA. 20+00
 SHIMEK, JACOBS & FINKLEA, L.L.P.
 CONSULTING ENGINEERS
 Dallas, Texas



THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.
 DATE: _____

DESIGNED BY: J.W.B. PROJECT: 1999 123 SHEET NO. 4
 DRAWN BY: S.J. & F. DATE: FEBRUARY, 2000 OF 16 SHEETS

REVISION 07/17/00 C.D. 99123-04.DWG SCALE: 1"=20' BLOCKS:PROVW



SURVEY CONTROL POINTS

CP 1161	PK N&L SET	N 11437.5911	E 10170.6581
CP 1162	PK N&L SET	N 11676.7098	E 10054.0723

CONCRETE PAVEMENT, CURB & WALK
REMOVAL AND REPLACEMENT

SHADING INDICATES APPROX. WIDTH OF
TRACK HOE

- NOTES:**
- CONTRACTOR TO PROTECT INLETS ALONG MARSH LANE.
 - COORDINATES ARE PROJECT SPECIFIC AND NOT STATE PLANE RELATED.

WATER SERVICES

LOCATION	PROP. 2" SERVICE (L.F.)
STA. 15+76.14 RT.	17.7'

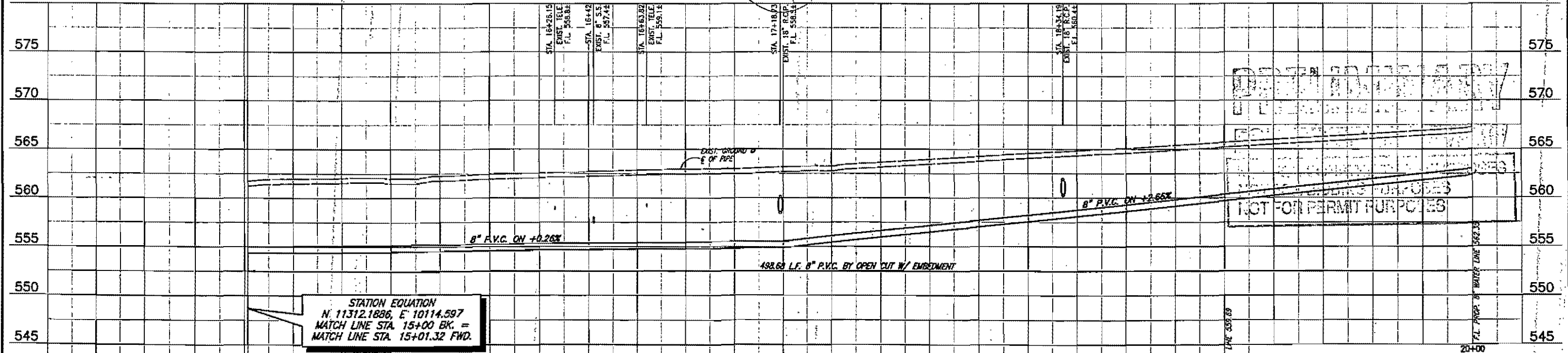
FURNISH & INSTALL: PROP. 2" OUTLET, NEW 2" HIGH DENSITY POLYETHYLENE WATER PIPE AND METER BOX. CONNECT TO EXISTING WATER LINE AT EACH WATER SERVICE LOCATION. TOWN TO FURNISH WATER METER.

CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING UTILITIES MIN. 48 HOURS PRIOR TO START OF CONSTRUCTION.

BENCHMARK: T.B.M. 27 "O" CENTER OF INLET LOCATED APPROX. 60' EAST OF NE INTERSECTION OF MARSH LN. & BROOKHAVEN CLUB DRIVE ELEV. 546.91

T.B.M. WL-1 "O" CENTER OF INLET LOCATED APPROX. 530' SOUTH OF INTERSECTION OF MARSH LN. & SPRING VALLEY RD. ELEV. 566.08

These plans and related specifications were prepared for construction of this specific project only. Release of these documents is not permitted without written authorization of Shimek, Jacobs & Finklea, L.L.P.



STATION EQUATION
N 11312.1886, E 10114.597
MATCH LINE STA. 15+00 BK. =
MATCH LINE STA. 15+01.32 FWD.

NOT FOR PERMIT PURPOSES

TOWN OF ADDISON, TEXAS

MARSH LANE WATER LINE & BROOKHAVEN CLUB SANITARY SEWER LINE

MARSH LANE WATER LINE PLAN - PROFILE
STA. 15+00 TO STA. 20+00

SHIMEK, JACOBS & FINKLEA, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas

DESIGNED BY: J.W.B. PROJECT: 1999 123 SHEET NO. 4
DRAWN BY: S.J. & F. DATE: FEBRUARY, 2000

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.

DATE: _____



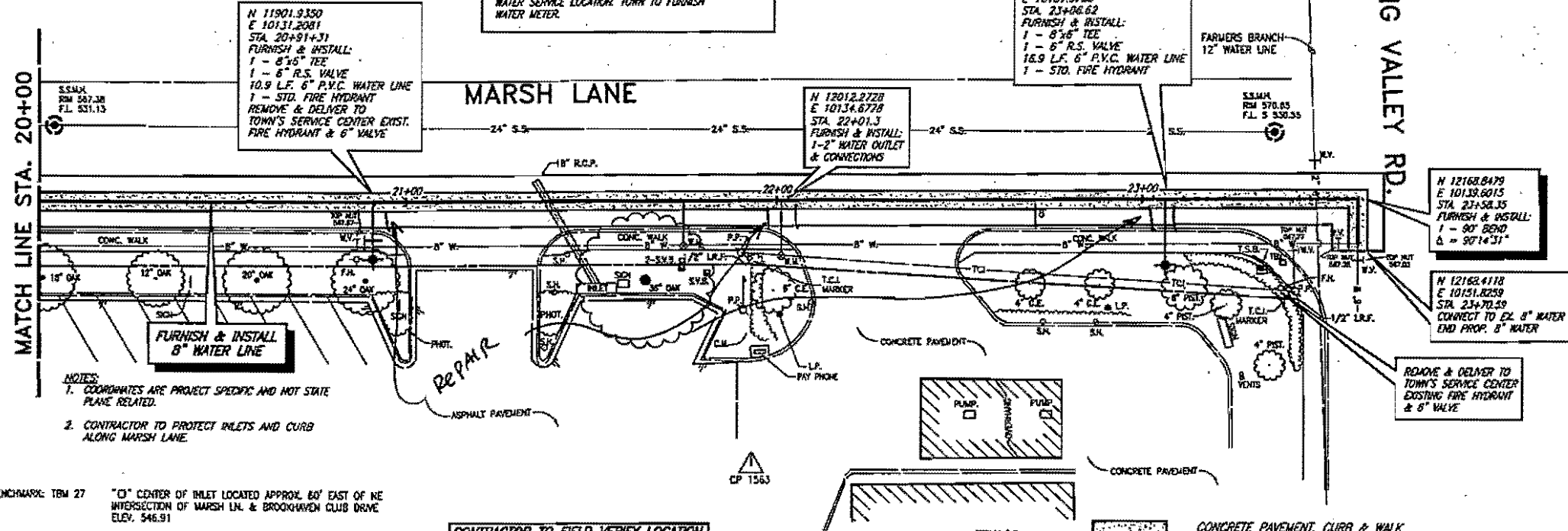
REVISED 07/03/00 G40 59123-06.DWG SCALE: 1"=20' BLOCKS:PROFW



WATER SERVICES	
LOCATION	PROP. 2" SERVICE (L.F.)
STA. 21+75.2 RT.	11.4
STA. 22+01.7 RT.	14.3

FURNISH & INSTALL: PROP. 2" OUTLET, NEW 2" HIGH DENSITY POLYETHYLENE WATER PIPE, AND METER BOX. CONNECT TO EXISTING WATER LINE AT EACH WATER SERVICE LOCATION. TURN TO FURNISH WATER METER.

SURVEY CONTROL POINTS
 CP 1478 PK NAIL SET N 12044.0623 E 10066.3496
 CP 1563 PK NAIL SET N 12001.6704 E 10206.8181



- NOTES:**
- COORDINATES ARE PROJECT SPECIFIC AND NOT STATE PLANE RELATED.
 - CONTRACTOR TO PROTECT INLETS AND CURB ALONG MARSH LANE.

BENCHMARK: TBM 27 "O" CENTER OF INLET LOCATED APPROX. 60' EAST OF NE INTERSECTION OF MARSH LN. & BROOKHAVEN CLUB DRIVE ELEV. 546.91

TBM M-1 "O" CENTER OF INLET LOCATED APPROX. 530' SOUTH OF INTERSECTION OF MARSH LN. & SPRING VALLEY RD. ELEV. 556.08

CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING UTILITIES MIN. 48 HOURS PRIOR TO START OF CONSTRUCTION.

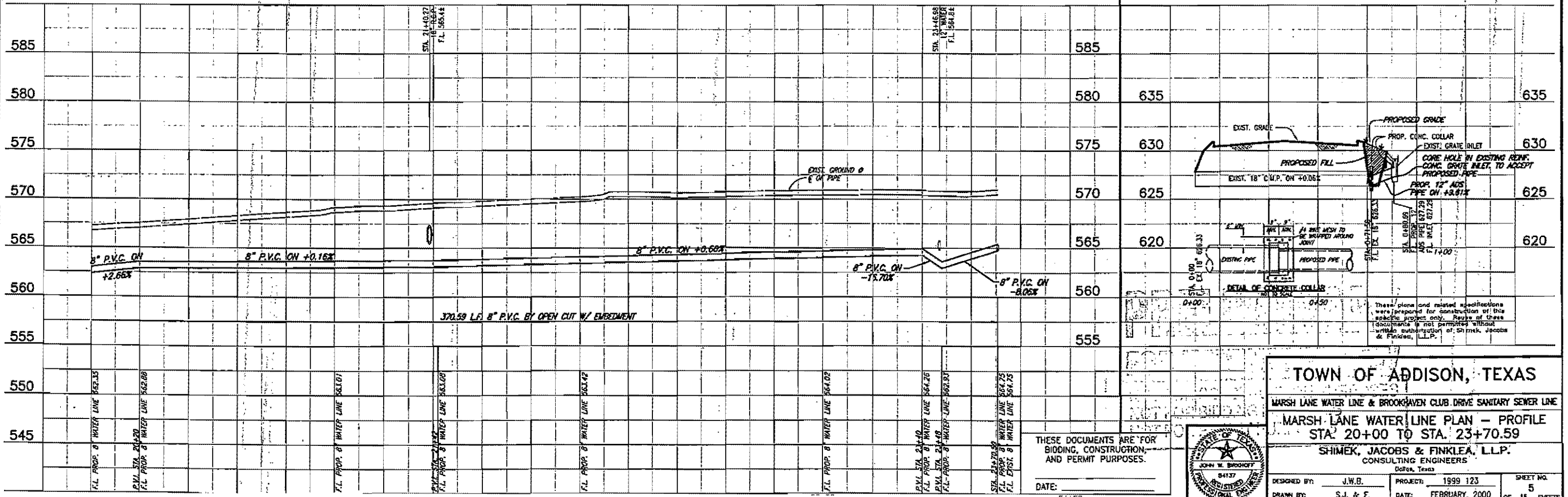
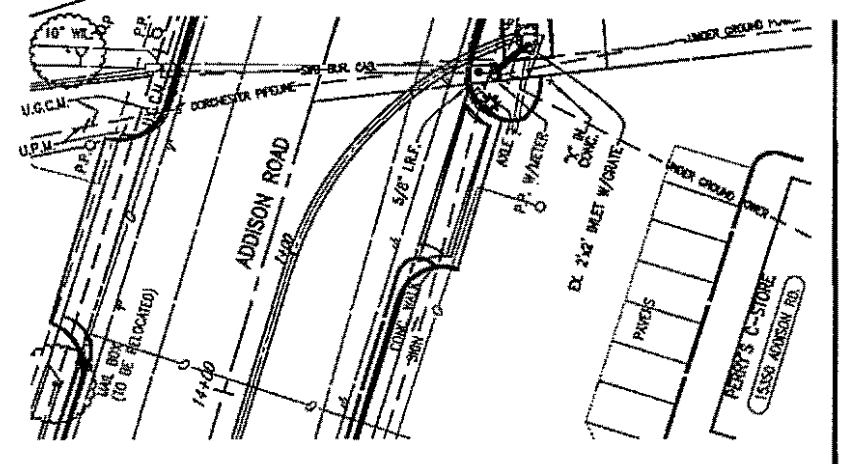
CONCRETE PAVEMENT, CURB & WALK REMOVAL AND REPLACEMENT

SHADING INDICATES APPROX. WIDTH OF TRACK HOE

409-539-4099 Fax 409-549-4089

Centra-flo
 Gravity Sand Filter

THIS IS A
 SIM P.IECE
 ON PROJECT



THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.



TOWN OF ADDISON, TEXAS

MARSH LANE WATER LINE & BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE

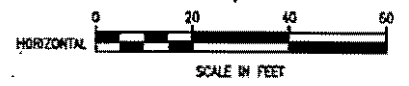
MARSH LANE WATER LINE PLAN - PROFILE
 STA. 20+00 TO STA. 23+70.59

SHIMEX, JACOBS & FINKLER, LLP.
 CONSULTING ENGINEERS
 Dallas, Texas

DESIGNED BY: J.W.B. PROJECT: 1999 123 SHEET NO. 5
 DRAWN BY: S.J. & F. DATE: FEBRUARY, 2000 OF 15 SHEETS

BROOKHAVEN CLUB DRIVE

SEE SHEET NO. 9
FOR AREA ENLARGEMENT
AND NOTES



SURVEY CONTROL POINTS

CP 249	PK MAIL SET	N 9840.0925	E 10436.0578
CP 307	PK MAIL SET	N 9765.8671	E 10453.0317

N 8801.2314, E 10085.0893
PLUG EXISTING SANITARY
SEWER TO THE EAST SEE
NOTE 2

N 9794.0638, E 10141.5151
SAN. SEW. P.I. STA. D+62.17
D. = 20'06"28" RT.
CONSTRUCT 6" DIA. DROP MANHOLE

N 9774.2551, E 10082.5873
SAN. SEW. STA. 0+00
CONNECT TO EXIST. MAIL
W/ DROP CONNECTION
BEGIN 10" SANITARY SEWER

FURNISH & INSTALL
10" SANITARY SEWER
BY OTHER THAN
OPEN CUT

CALL AT
PROTECT
CONCRETE
PAVEMENT +
CURB B - OR
CALL AT AREA
OF PAVEMENT +
REMOVE &
REPLACEMENT

- NOTES
- CONTRACTOR SHALL REMOVE EXISTING MAIL AND JUMPER PLANTS FOR BORE PTS. PLANTS SHALL BE REPLACED OR REPLANTED PLANTS TO BE REPLANTED SHALL BE MAINTAINED IN ELEVATED BED.
 - PLUG EXISTING SANITARY SEWER LINE
 - CLEAN 18" OF EXIST. SANITARY SEWER
 - PLACE 2000 P.S.I. (MIN.) CONC. 18" INTO EXIST. SAN. SEWER

EXISTING SANITARY SEWER MANHOLE TO BE ABANDONED
CONTRACTOR SHALL POUR 2000 P.S.I. CONCRETE IN BOTTOM OF
EXISTING MANHOLE TO A DEPTH OF 18 INCHES ABOVE EXISTING
SPRINGLINE. REMAINDER OF MANHOLE SHALL BE BACKFILL WITH
EXCAVATED MATERIAL FROM TRENCH IN 8 INCH LIFTS. MANHOLE
COVER & CONE SHALL BE REMOVED AND BACKFILLED WITH
TOPSOIL. GROUND AROUND MANHOLE SHALL BE GRADED LEVEL
WITH SURROUNDING GRADE.

FURNISH & INSTALL
10" SANITARY SEWER
BY OTHER THAN
OPEN CUT

PROTECT
CARPORT

PROTECT
CARPORT

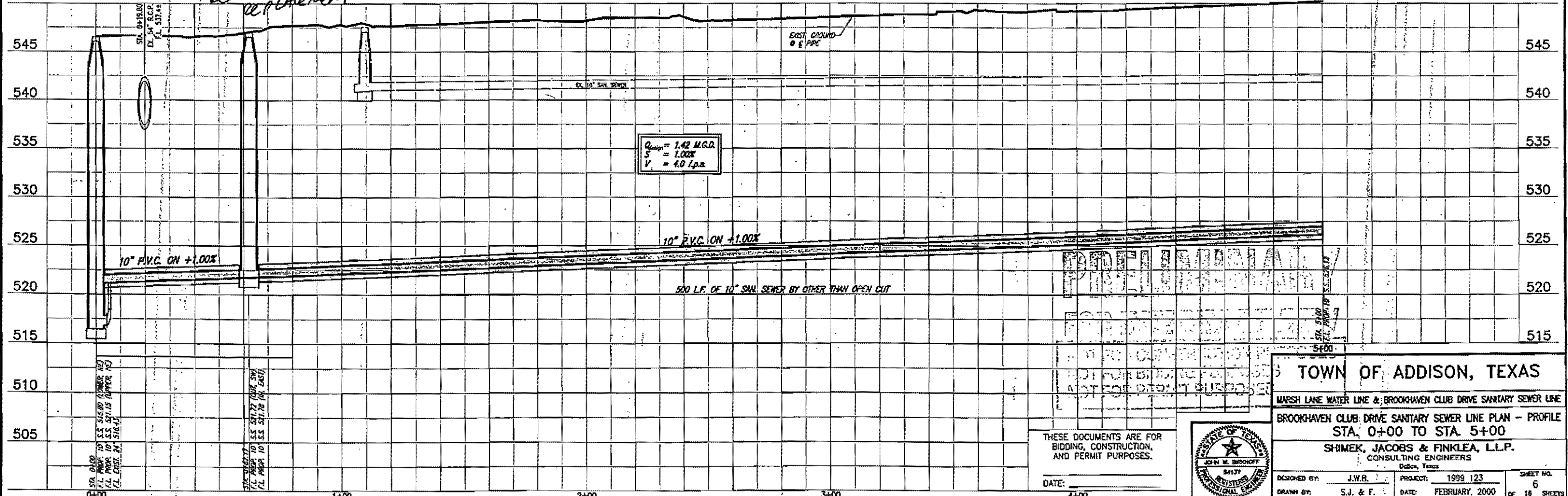
MATCH LINE STA. 5+00

SHOW
&
PERMANENT
TEMP. CONSTR.
ELEMENTS!

WOODED CREEK ESTATES

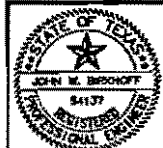
BENCHMARK: TBM 27 "CI" CENTER OF BILET LOCATED APPROX. 60' EAST OF NE INTERSECTION OF MARSH LN. & BROOKHAVEN CLUB DRIVE ELEV. 546.91

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THESE DOCUMENTS ARE FOR
BIDDING, CONSTRUCTION,
AND PERMIT PURPOSES.

DATE: 4+00



TOWN OF ADDISON, TEXAS

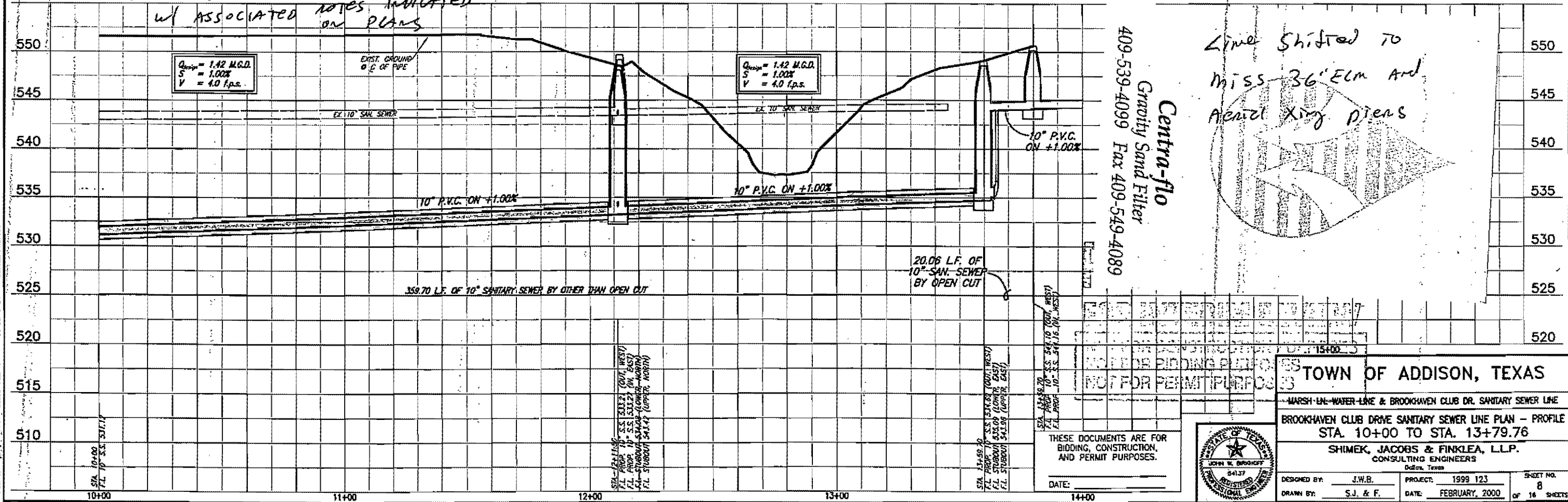
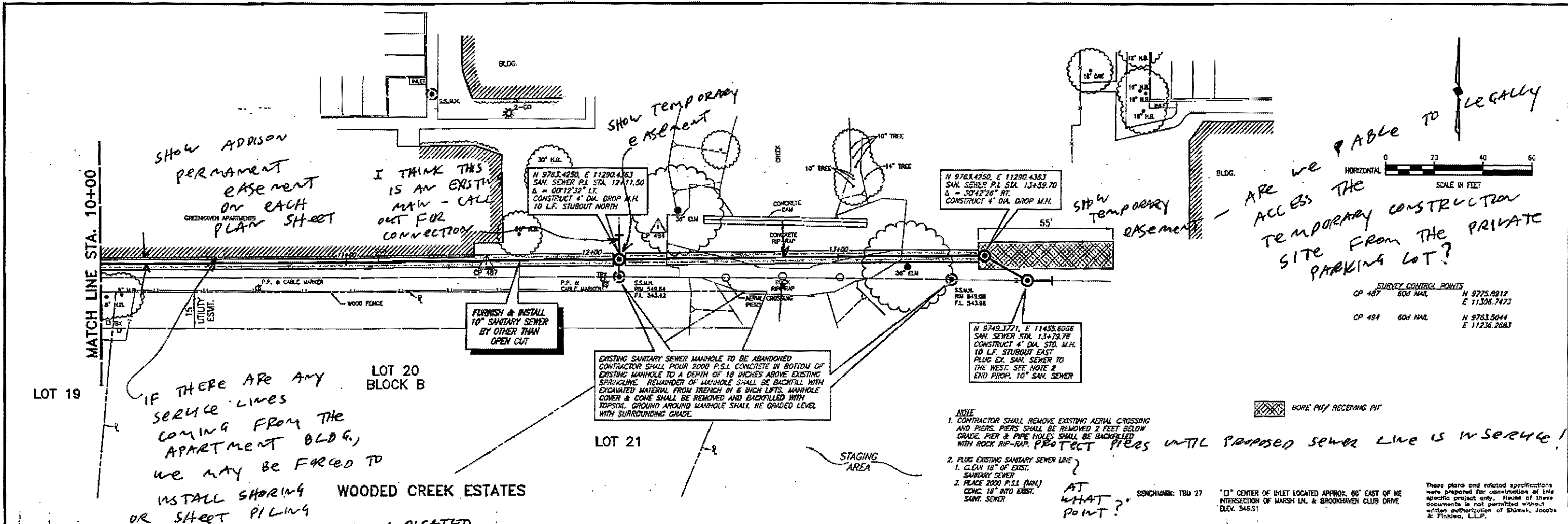
MARSH LANE WATER LINE & BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE

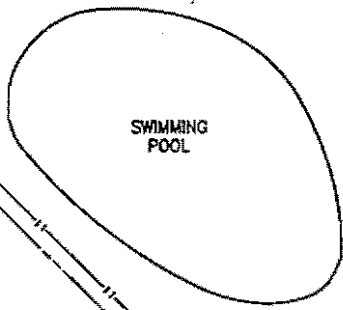
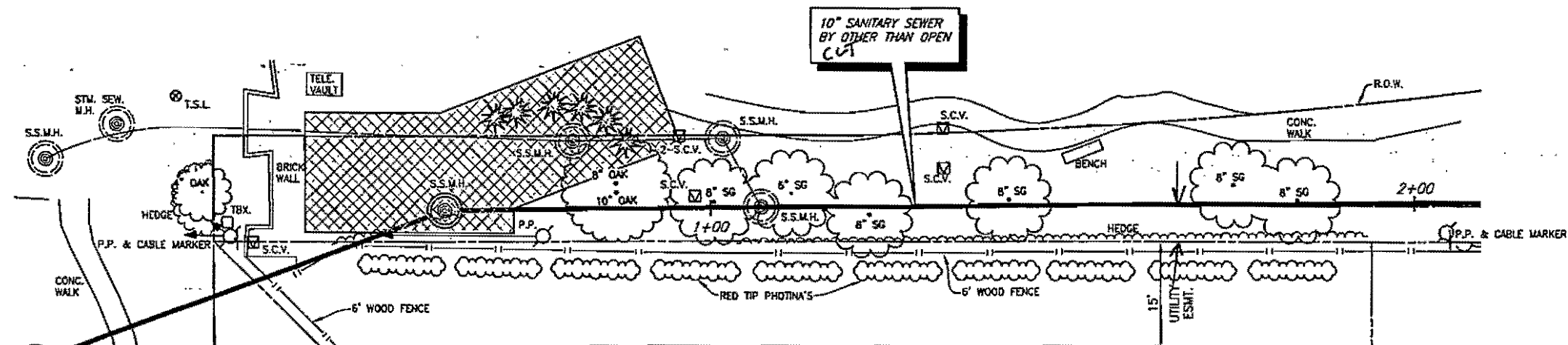
BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE PLAN - PROFILE
STA. 0+00 TO STA. 5+00

SHIMEK, JACOBS & FINKLEA, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas

DESIGNED BY: J.W.B. PROJECT: 1999 123 SHEET NO. 6
DRAWN BY: S.J. & F. DATE: FEBRUARY, 2000 OF 15 SHEETS


REVISION 07/02/00 CAD 99171-06-DWG SCALE: 1"=20' BLOCKS PROJECT

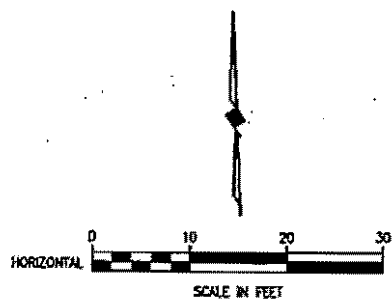




SEE SHEET NO. 10 FOR LOT LOCATION IN WOODED CREEK ESTATES

BLOCK B
LOT 9
WOODED CREEK ESTATES

 BORE PIT/ RECEIVING PIT

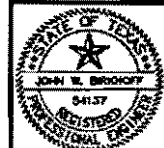


NOTES:

1. PRIOR TO CONSTRUCTION CONTRACTOR SHALL ARRANGE AND PAY FOR UNDER WATER SERVICES (817-447-7321) TO COMPLETE AN UNDER WATER VIDEO OF THE SWIMMING POOL AT BLOCK B, LOT 9, WOODED CREEK ESTATES. ALSO CONTRACTOR COMPLETE A VIDEO OF THE POOL DECK, YARD AND BRICK WALLS OF HOUSE LOCATED AT BLOCK B, LOT 9, WOODED CREEK ESTATES. SUCH VIDEO SHALL BE VHS FORMAT IN COLOR AND BE NARRATED. ORIGINAL VIDEOS SHALL BE PROVIDED TO THE TOWN OF ADDISON.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO SWIMMING POOL, POOL DECK, HOUSE STRUCTURE, ETC. ON BLOCK B, LOT 9, WOODED CREEK ESTATES CAUSED BY CONSTRUCTION ACTIVITIES.
3. DURING EXCAVATION OF BORE PIT EXISTING WOOD FENCE MAY BE REQUIRED TO BE REMOVED TO SWING BACK HOE. CONTRACTOR SHALL ERECT TEMPORARY CHAIN LINK FENCE WITH TARPS DURING CONSTRUCTION.
4. IMMEDIATELY AFTER CONSTRUCTION OF SANITARY SEWER LINE ENTIRE NORTH WOOD FENCE ALONG BLOCK B, LOT 9, WOODED CREEK ESTATES SHALL BE REMOVED AND REPLACED WITH 8 FOOT RED CEDAR FENCE WITH HOT DIPPED GALVANIZED POSTS AND HARDWARE. FENCE PICKETS SHALL HAVE AN OVERLAP PICKET OF EQUAL WIDTH AT ALL VERTICAL JOINTS. FINISHED SIDE TOWARDS BROOKHAVEN CLUB DRIVE.
5. RED TIP PHOTINIA'S ALONG NORTH PROPERTY LINE SHALL BE REMOVED AND REPLACED WITH _____ PLANTING SHALL BE COMPLETED BY A LANDSCAPE COMPANY LICENSED IN THE STATE OF TEXAS.

PRELIMINARY
FOR INFORMATION PURPOSES
NOT FOR BIDDING PURPOSES
NOT FOR PERMIT PURPOSES

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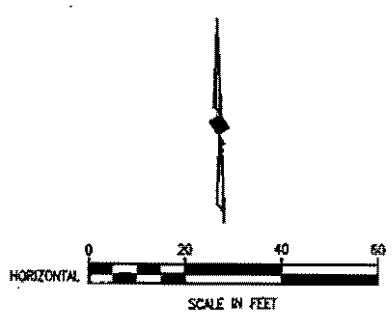
THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.

DATE: _____

TOWN OF ADDISON, TEXAS		
MARSH LANE WATER LINE & BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE		
BLOCK B, LOT 9, WOODED CREEK ESTATES		
AREA ENLARGEMENTS AND NOTES		
SHIMEK, JACOBS & FINKLEA, L.L.P. CONSULTING ENGINEERS Dallas, Texas		
DESIGNED BY: J.W.B.	PROJECT: 1999 123	SHEET NO. 9
DRAWN BY: S.J. & F.	DATE: FEBRUARY, 2000	OF 15 SHEETS

P/P IS PROBABLY DANGER, MUST BE ADDRESSED ON THE PLAN!

DOE TO DEPTH OF BORE PIT, WE WILL HAVE TO SHOW A LARGE ASPHALT REPAIR AREA & PAVEMENT ASSOCIATED CONSTRUCTION EASEMENT! WHAT ABOUT LEGAL ACCESS TO THE BASEMENT SITE?



SURVEY CONTROL POINTS

CP 441	604 NAIL	N 9770.2518	E 10993.1554
CP 456	PX NAIL SET	N 9767.7210	E 11039.1426

MATCH LINE STA. 5+00

MATCH LINE STA. 10+00

EXISTING SANITARY SEWER MANHOLE TO BE ABANDONED. CONTRACTOR SHALL POUR 2000 P.S.I. CONCRETE IN BOTTOM OF EXISTING MANHOLE TO A DEPTH OF 18 INCHES ABOVE EXISTING SPRINGLINE. REMAINDER OF MANHOLE SHALL BE BACKFILL WITH EXCAVATED MATERIAL FROM TRENCH IN 6 INCH LIFTS. MANHOLE COVER & CONE SHALL BE REMOVED AND BACKFILLED WITH TOPSOIL. GROUND AROUND MANHOLE SHALL BE GRADED LEVEL WITH SURROUNDING GRADE.

DOES THE EXIST. EASEMENT ACTUALLY GO THROUGH THE BLDG. OR ADJACENT TO IT?

FURNISH & INSTALL 10" SANITARY SEWER BY OTHER THAN OPEN CUT

TIE DOWN PROPOSED LOT 18 LIVE IN RELATION TO EXIST. EASEMENT AND/OR OTHER PHYSICAL STRUCTURE!

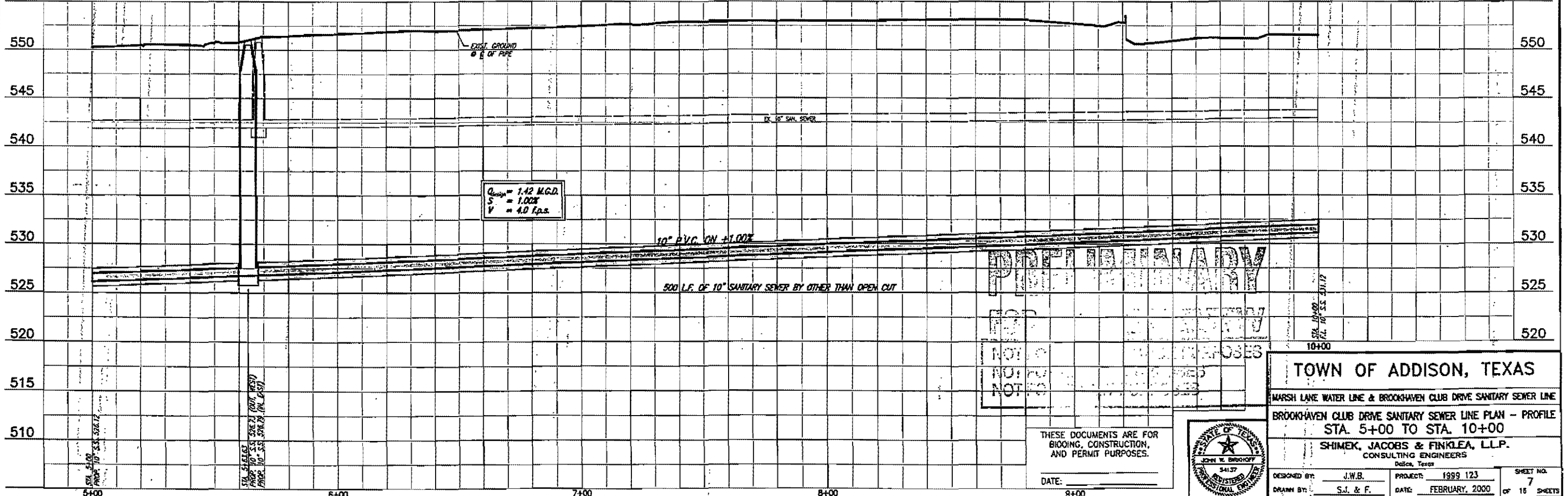
WOODED CREEK ESTATES

BORE PIT/ RECEIVING PIT

BENCHMARK: TBM 27

"CI" CENTER OF WILET LOCATED APPROX. 60' EAST OF NE INTERSECTION OF MARSH LN. & BROOKHAVEN CLUB DRIVE ELEV. 546.91

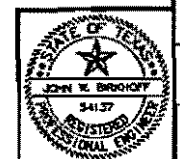
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REVISED 07/03/00 GUD 89103-02.DWG SCALE: 1"=20' BLOCKS PROGRESS

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.

DATE: _____



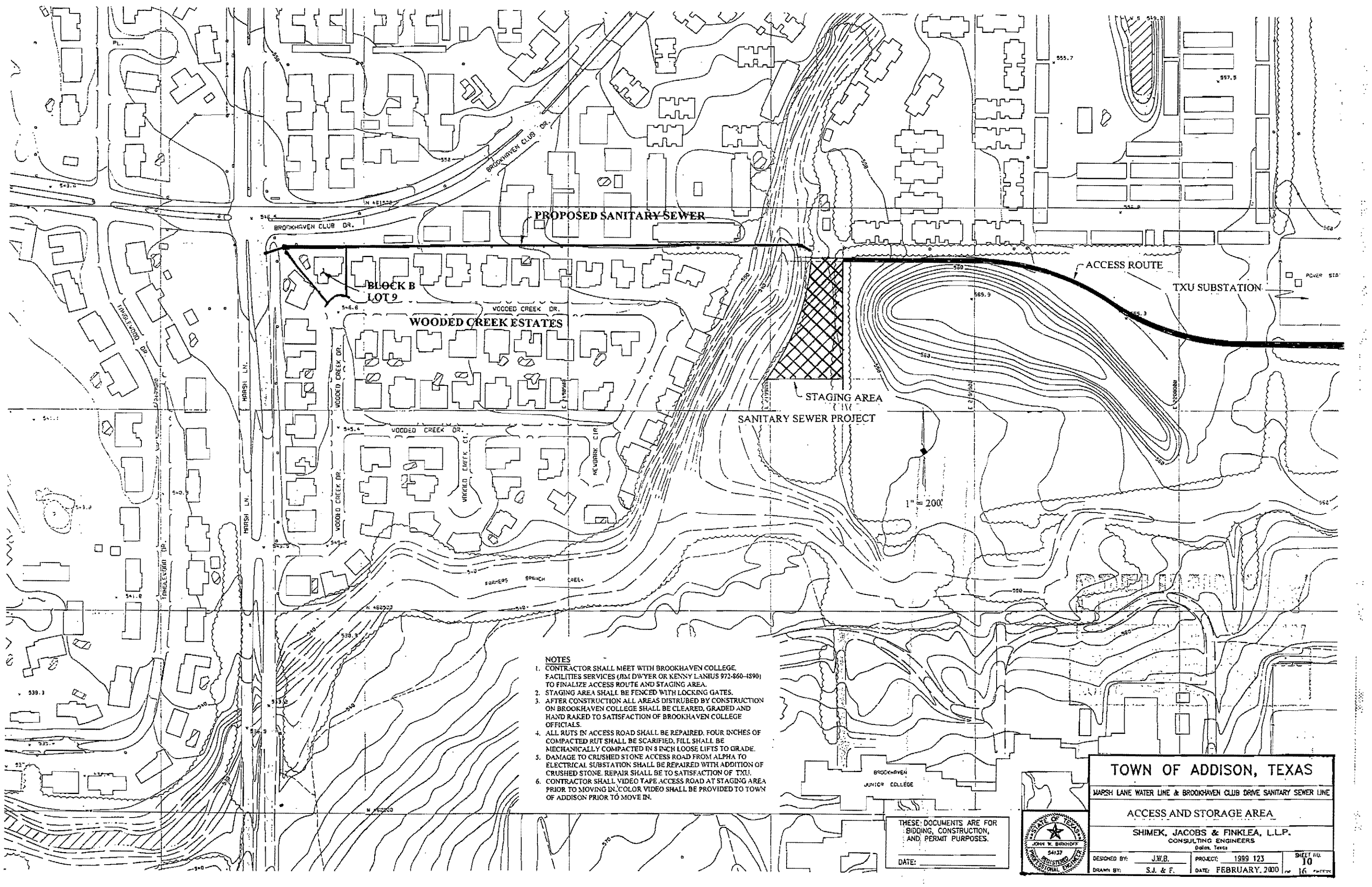
TOWN OF ADDISON, TEXAS

MARSH LANE WATER LINE & BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE

BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE PLAN - PROFILE STA. 5+00 TO STA. 10+00

SHIMEK, JACOBS & FINKLEA, L.L.P. CONSULTING ENGINEERS Dallas, Texas

DESIGNED BY: J.W.B.	PROJECT: 1999 123	SHEET NO. 7
DRAWN BY: S.J. & F.	DATE: FEBRUARY, 2000	OF 18 SHEETS



PROPOSED SANITARY SEWER

**BLOCK B
LOT 9**

WOODED CREEK ESTATES

**STAGING AREA
SANITARY SEWER PROJECT**

ACCESS ROUTE

TXU SUBSTATION

1" = 200'

NOTES

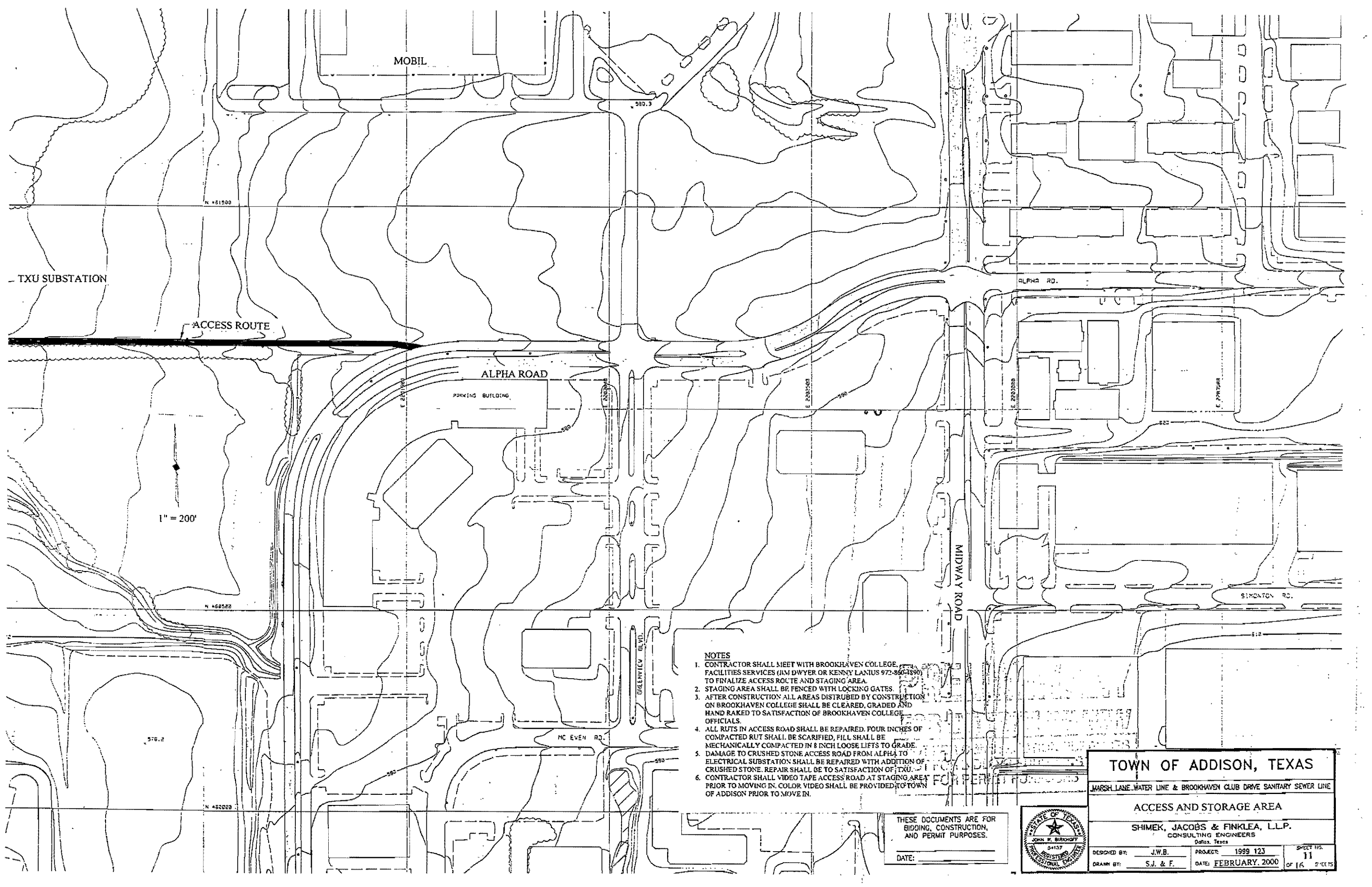
1. CONTRACTOR SHALL MEET WITH BROOKHAVEN COLLEGE, FACILITIES SERVICES (JIM DWYER OR KENNY LANIUS 972-860-4390) TO FINALIZE ACCESS ROUTE AND STAGING AREA.
2. STAGING AREA SHALL BE FENCED WITH LOCKING GATES.
3. AFTER CONSTRUCTION ALL AREAS DISTURBED BY CONSTRUCTION ON BROOKHAVEN COLLEGE SHALL BE CLEARED, GRADED AND HAND RAKED TO SATISFACTION OF BROOKHAVEN COLLEGE OFFICIALS.
4. ALL RUTS IN ACCESS ROAD SHALL BE REPAIRED. FOUR INCHES OF COMPACTED RUT SHALL BE SCARIFIED. FILL SHALL BE MECHANICALLY COMPACTED IN 8 INCH LOOSE LIFTS TO GRADE.
5. DAMAGE TO CRUSHED STONE ACCESS ROAD FROM ALPHA TO ELECTRICAL SUBSTATION SHALL BE REPAIRED WITH ADDITION OF CRUSHED STONE. REPAIR SHALL BE TO SATISFACTION OF TXU.
6. CONTRACTOR SHALL VIDEO TAPE ACCESS ROAD AT STAGING AREA PRIOR TO MOVING IN. COLOR VIDEO SHALL BE PROVIDED TO TOWN OF ADDISON PRIOR TO MOVE IN.

THESE DOCUMENTS ARE FOR
BIDDING, CONSTRUCTION,
AND PERMIT PURPOSES.

DATE: _____



TOWN OF ADDISON, TEXAS			
MARSH LANE WATER LINE & BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE			
ACCESS AND STORAGE AREA			
SHIMEK, JACOBS & FINKLEA, L.L.P. CONSULTING ENGINEERS Dallas, Texas			
DESIGNED BY: J.W.B.	PROJECT: 1999 123	SHEET NO. 10	
DRAWN BY: S.J. & F.	DATE: FEBRUARY, 2000	OF 16 SHEETS	

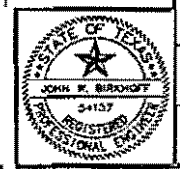


1" = 200'

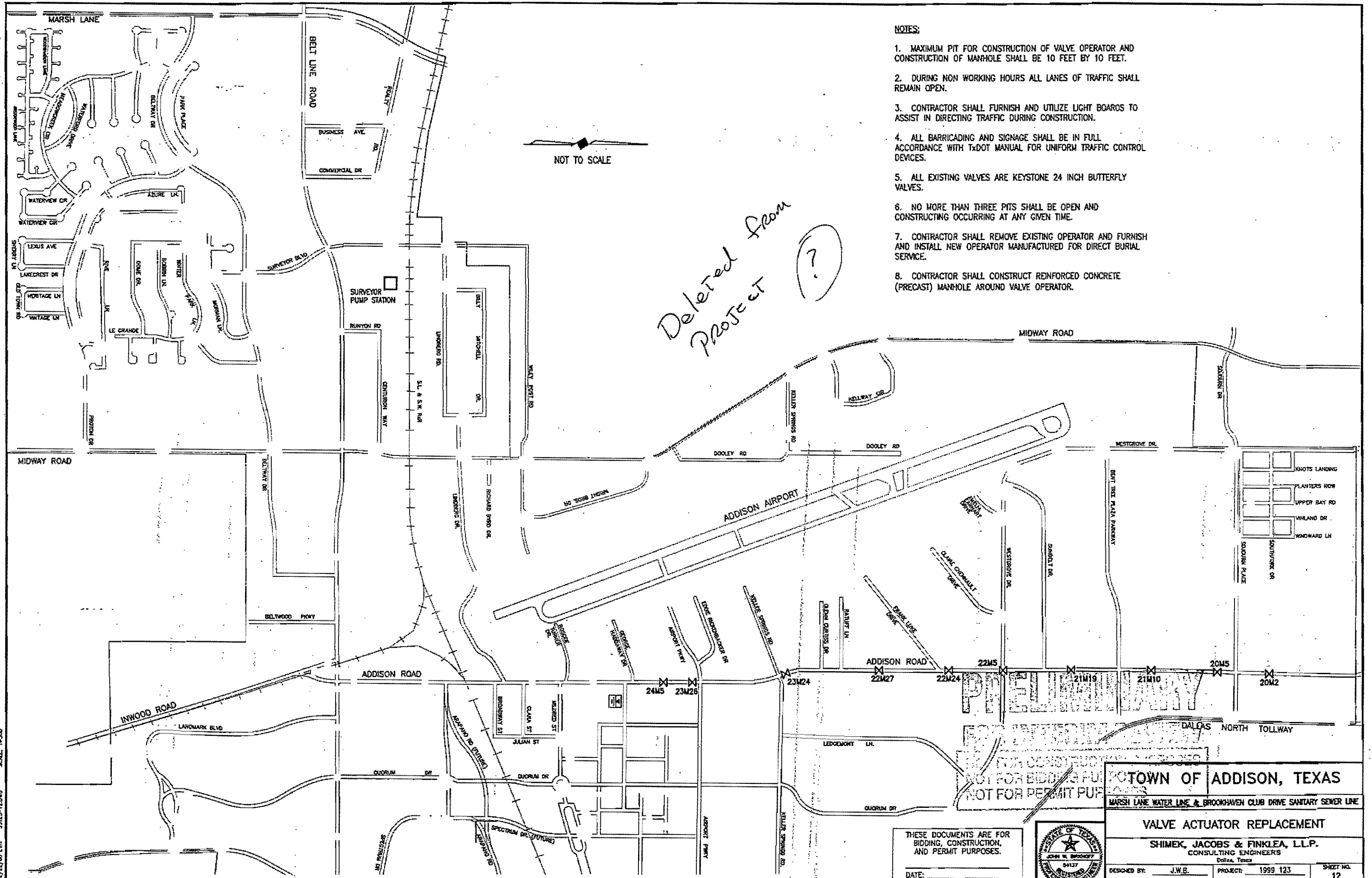
NOTES

1. CONTRACTOR SHALL MEET WITH BROOKHAVEN COLLEGE, FACILITIES SERVICES (JIM DWYER OR KENNY LANIUS 972-866-3890) TO FINALIZE ACCESS ROUTE AND STAGING AREA.
2. STAGING AREA SHALL BE FENCED WITH LOCKING GATES.
3. AFTER CONSTRUCTION ALL AREAS DISTURBED BY CONSTRUCTION ON BROOKHAVEN COLLEGE SHALL BE CLEARED, GRADED AND HAND RAKED TO SATISFACTION OF BROOKHAVEN COLLEGE OFFICIALS.
4. ALL RUTS IN ACCESS ROAD SHALL BE REPAIRED. FOUR INCHES OF COMPACTED RUT SHALL BE SCARIFIED, FILL SHALL BE MECHANICALLY COMPACTED IN 8 INCH LOOSE LIFTS TO GRADE.
5. DAMAGE TO CRUSHED STONE ACCESS ROAD FROM ALPHA TO ELECTRICAL SUBSTATION SHALL BE REPAIRED WITH ADDITION OF CRUSHED STONE. REPAIR SHALL BE TO SATISFACTION OF TXU.
6. CONTRACTOR SHALL VIDEO TAPE ACCESS ROAD AT STAGING AREA PRIOR TO MOVING IN. COLOR VIDEO SHALL BE PROVIDED TO TOWN OF ADDISON PRIOR TO MOVE IN.

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.
DATE: _____



TOWN OF ADDISON, TEXAS		
MARSH LANE WATER LINE & BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE		
ACCESS AND STORAGE AREA		
SHIMEK, JACOBS & FINKLEA, L.L.P. CONSULTING ENGINEERS Dallas, Texas		
DESIGNED BY: J.W.B.	PROJECT: 1999 123	SHEET NO. 11
DRAWN BY: S.J. & F.	DATE: FEBRUARY, 2000	OF 16 SHEETS



NOTES:

1. MAXIMUM PIT FOR CONSTRUCTION OF VALVE OPERATOR AND CONSTRUCTION OF MANHOLE SHALL BE 10 FEET BY 10 FEET.
2. DURING NON WORKING HOURS ALL LANES OF TRAFFIC SHALL REMAIN OPEN.
3. CONTRACTOR SHALL FURNISH AND UTILIZE LIGHT BOARDS TO ASSIST IN DIRECTING TRAFFIC DURING CONSTRUCTION.
4. ALL BARRICADING AND SIGNAGE SHALL BE IN FULL ACCORDANCE WITH TxDOT MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES.
5. ALL EXISTING VALVES ARE KEYSTONE 24 INCH BUTTERFLY VALVES.
6. NO MORE THAN THREE PITS SHALL BE OPEN AND CONSTRUCTING OCCURRING AT ANY GIVEN TIME.
7. CONTRACTOR SHALL REMOVE EXISTING OPERATOR AND FURNISH AND INSTALL NEW OPERATOR MANUFACTURED FOR DIRECT BURIAL SERVICE.
8. CONTRACTOR SHALL CONSTRUCT REINFORCED CONCRETE (PRECAST) MANHOLE AROUND VALVE OPERATOR.

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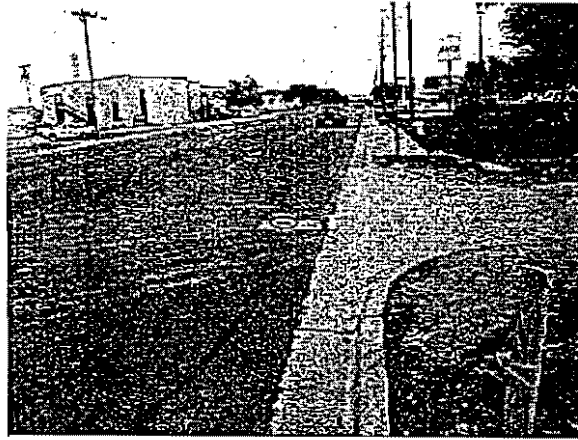
POTOMTOWN OF ADDISON, TEXAS
 MARSH LANE WATER LINE & BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.
 DATE: _____

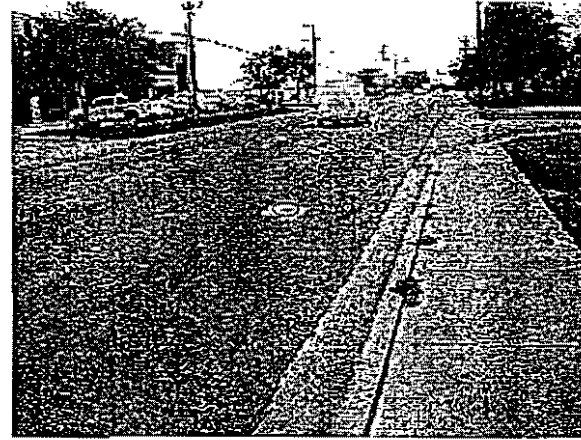


VALVE ACTUATOR REPLACEMENT		
SHIMEK, JACOBS & FINKLEA, L.L.P. CONSULTING ENGINEERS Dallas, Texas		
DESIGNED BY: J.W.E.	PROJECT: 1999 123	SHEET NO. 12
DRAWN BY: S.J. & F.	DATE: FEBRUARY, 2000	OF 18 SHEETS

02/22/00 EWH 59123-12.DWG SCALE: 1/4"=1'-0"



VALVE 24M5
ADDISON RD. (NB)



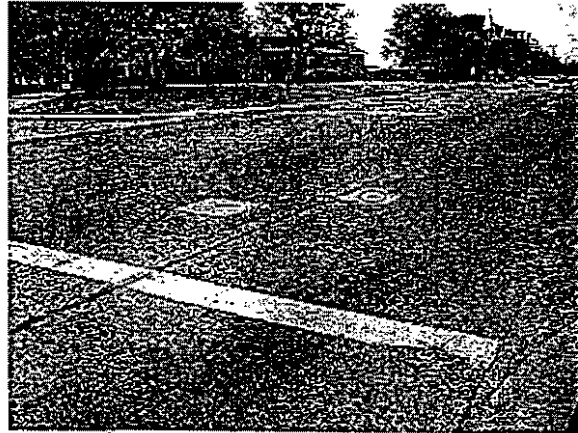
VALVE 22M7
ADDISON RD. (NB)



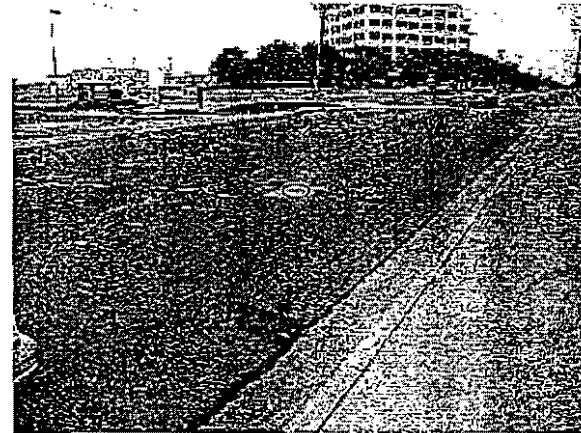
VALVE 21M19
ADDISON RD. (NB)



VALVE 20M2
ADDISON RD. (NB)



VALVE 23M26
ADDISON RD. (NB) @
AIRPORT PKWY INTERSECTION

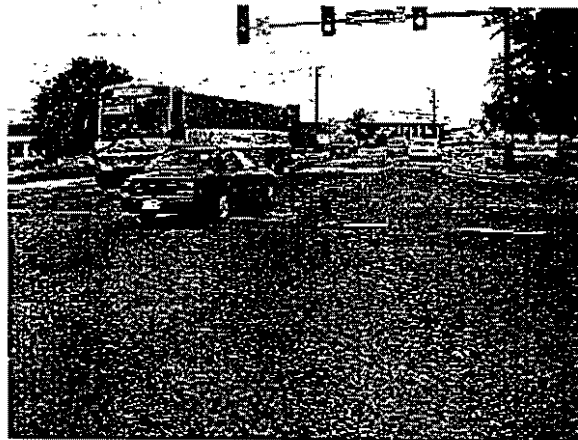


VALVE 22M24
ADDISON RD. (NB)



VALVE 21M10
ADDISON RD. (NB)

Deleted from Project



VALVE 23M24
ADDISON RD. (NB) @
KELLER SPRINGS INTERSECTION



VALVE 22M5
ADDISON RD. (NB) @
WESTGROVE INTERSECTION



VALVE 20M5
ADDISON RD. (NB)

PRELIMINARY
FOR REVIEW ONLY
NOT FOR BIDDING PURPOSES
NOT FOR PERMIT PURPOSES

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TOWN OF ADDISON, TEXAS		
MARSH LAKE WATER LINE & BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE		
VALVE ACTUATOR REPLACEMENT		
SHIMEK, JACOBS & FINKLEA, L.L.P. CONSULTING ENGINEERS Dallas, Texas		
DESIGNED BY: J.W.B.	PROJECT: 1999 123	SHEET NO. 13
DRAWN BY: S.J. & F.	DATE: FEBRUARY, 2000	OF 16 SHEETS

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.

DATE: _____

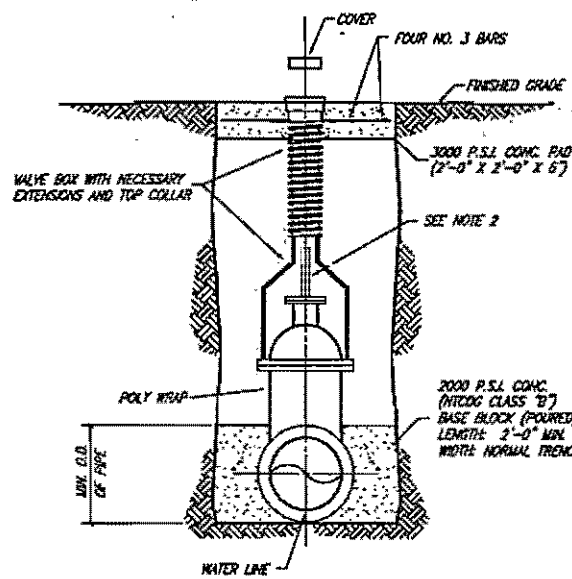


02/22/00 EWI 99123-08.DWG SCALE: 1"=1'

GENERAL NOTES

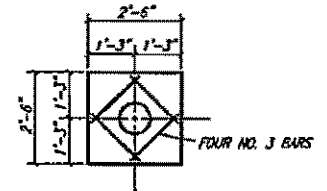
(NOTES APPLY TO ALL SHEETS)

- REASONABLE EFFORT HAS BEEN MADE TO SHOW THE LOCATION OF ALL KNOWN UNDERGROUND UTILITIES AND SERVICE LINES. HOWEVER, THE OWNER ASSUMES NO RESPONSIBILITY FOR FAILURE TO SHOW ANY OR ALL EXISTING SUBSURFACE OR SURFACE UTILITIES OR UTILITY LINES, OR TO SHOW THEM IN THEIR EXACT LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, SERVICE LINES OR THE LINE, WHICH ARE CROSSED OR EXPOSED BY THE CONSTRUCTION OPERATION.
- CONTRACTOR SHALL NOTIFY UTILITY COMPANIES 72 HOURS PRIOR TO CONSTRUCTION
 - T.U. ELECTRIC
 - GENERAL TELEPHONE (G.T.E.)
 - LOOSE STAR GAS
 - CABLE TELEPHONE
 - T.C.L. CABLE TV
- ALL PAVEMENT SHALL BE SAWCUT FOR TRENCHES. SAWCUTS SHALL BE FULL DEPTH.
- ALL CONCRETE PAVEMENT (ROADWAYS, CURB & GUTTERS, DRIVEWAYS, AND SIDEWALKS, ETC.) SHALL HAVE BE FULL DEPTH SAWCUT. 18 INCH LONG NO. 4 DOWELS SHALL BE DRILLED INTO EXISTING PAVEMENT. CONTRACTOR SHALL UTILIZE A DRILLING RIG TO DRILL HOLES FOR DOWEL BARS. CONTRACTOR SHALL UTILIZE PROPER BITS AND PRESSURE, AS NOT TO DAMAGE EXISTING CONCRETE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGED PAVEMENT AND REPAIR AT HIS OWN COST.
- THE CONTRACTOR SHALL PROTECT ALL UNDERGROUND SPRINKLER SYSTEMS. ALL DAMAGES CAUSED BY CONSTRUCTION SHALL BE REPAIRED BY A BIRMINGHAM LICENSED IN THE STATE OF TEXAS. REPAIR SHALL OCCUR WITHIN 48 HOURS OF DAMAGE OR AS PIPE LAYING TRAIN PASSES AFFECTED AREA. ALL COST SHALL BEAR BY THE CONTRACTOR.
- CONTRACTOR SHALL HAVE UTILITY COMPANIES SUPPORT AND PROTECT OR RELOCATE THEIR UTILITY POLES, GUY WIRES OR CABLE AND/OR LIGHT POLES IN WORK AREA. COST SHALL BE SUBSIDIARY TO THE CONTRACT.
- ALL ROADWAYS/ DRIVEWAYS, ETC. SHALL REMAIN OPEN DURING CONSTRUCTION. AT LEAST ONE WAY TRAFFIC (USING A FLAGMAN OR OTHER MEANS) SHALL BE AVAILABLE DURING WORKING HOURS. AFTER HOURS, TWO WAY TRAFFIC MUST BE MAINTAINED.
- THE CONTRACTOR SHALL REPLACE ALL SHRUBS, PLANTS, TREES, ETC. THAT ARE REMOVED FOR THE CONVENIENCE OF CONSTRUCTION AT HIS EXPENSE. NEW SHRUBS, PLANTS, TREES, ETC. SHALL BE EQUAL TO OR BETTER THAN EXISTING ONES OR MEET THE NEEDS OF THE PROPERTY OWNER.
- THE CONTRACTOR SHALL RESTORE ALL EXISTING LANDSCAPING AND VEGETATION ALONG THE CONSTRUCTION ROUTE TO ITS ORIGINAL CONDITION AFTER COMPLETION OF CONSTRUCTION.
- ALL WATER VALVES SHALL BE RESILIENT SEATED WEDGE GATE VALVES.
- EXISTING FIRE HYDRANTS, VALVES AND VALVE STACKS CALLED OUT IN PLANS TO BE REMOVED AND DELIVERED TO TOWN'S SERVICE CENTER BY THE CONTRACTOR.
- ALL CHANGES OF DIRECTION OF THE PROPOSED WATER LINE SHALL BE MARKED ON THE SURFACE. PAVEMENT SHALL BE MARKED WITH PERMANENT MARKERS MANUFACTURED BY D.A.S. MANUFACTURING, INC. OF VALDOSTA, GEORGIA (813-881-8024). THE MARKER SHALL BE BLUE WITH THE WORD "WATER" AND AN ARROW(S) FOR THE DIRECTION(S) OF THE LINE.
- ALL WATER SERVICES SHALL INCLUDE AN U.S.C. APPROVED DOUBLE CHECK VALVE ASSEMBLY UPSTREAM OF METER. EACH SHALL BE SET IN ITS OWN VALVE OR METER BOX.
- ALL GRASS DISTURBED ALONG PROJECT SHALL BE REPLACED WITH SOLID SO2 PLACED END TO END. CONTRACTOR SHALL WATER SO2 THREE A DAY FOR A PERIOD OF SIX WEEKS. WATERING SHALL BE ACCOMPLISHED BY USE OF A WATER TRUCK.
- ALL EXISTING AND NEW FIRE HYDRANTS NOT ACTIVE SHALL HAVE OUT OF SERVICE MARKERS PLACED ON TWO NOZZLES. MARKERS SHALL BE FROM HYDRA-SHIELD MANUFACTURING 1-800-876-0911 OR EQUAL. THE COLOR SHALL BE RED.
- FINAL LOCATION OF WATER METER SHALL BE DETERMINED IN THE FIELD BY THE TOWN OF ADDISON.
- ALL PAVEMENT CUTS SHALL BE COMPLETED UTILIZING FULL DEPTH SAW CUT. PROPOSED CONCRETE PAVEMENT SHALL BE DOWELED INTO EXIST. CONCRETE PAVEMENT (SEE LONGITUDINAL BUTT JOINT DETAIL).
- CONTRACTOR SHALL MAINTAIN A MINIMUM OF ONE DRIVE WAY OPEN TO ALL RESIDENTS AND BUSINESSES DURING CONSTRUCTION. DRIVEWAYS THAT ARE CLOSED FOR CONSTRUCTION SHALL BE DONE BETWEEN THE HOURS OF 9 AM AND 4 PM. ALL DRIVEWAYS CLOSED FOR CONSTRUCTION SHALL BE OPENED BY PLACEMENT OF STEEL PLATES OR BACKFILLED WITH ALL WEATHER SURFACE IMMEDIATELY AFTER WATER LINE IS CONSTRUCTED.
- MARSH LAKE NORTHBOUND SHALL BE OPEN TO TRAFFIC AT ALL TIMES. WITHIN THE CONSTRUCTION ZONE THE CONTRACTOR MAY CLOSE DOWN MARSH LAKE TO ONE LANE OF TRAFFIC FROM 7 AM TO 3 PM AT ALL OTHER TIMES A MINIMUM OF TWO LANES OF TRAFFIC SHALL BE MAINTAINED. CONTRACTOR SHALL SUBMIT BARRICADE AND PHASING PLAN FOR TOWN'S REVIEW AND APPROVAL A MINIMUM OF 10 DAYS PRIOR TO ROAD CLOSURES. (SEE SPECIFICATIONS)
- CONTRACTOR SHALL PLACE 2 INCH HANG OVERLAY ON APARTMENT COMPLEX PARKING LOT AS SHOWN. AREAS OUTSIDE OF DESIGNATED AREAS DAMAGED BY CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AT CONTRACTOR'S EXPENSE.
- COORDINATES ARE PROJECT SPECIFIC AND NOT STATE PLANE RELATED.
- ALL WYES, STACKS AND PIPE SERVICE CONNECTIONS SHALL BE P.V.C. (SDR-35).
- ALL MANHOLE/PIPE CONNECTIONS SHALL INCLUDE A COUPLING WITH O-RING RUBBER GASKET, NON-N-SEAL, A-LOK OR APPROVED EQUAL.
- PRIOR TO CONSTRUCTION OF MAIN SEWER LINES, THE CONTRACTOR SHALL LOCATE AND BROADCAST ALL SERVICE LINES AND VERIFY THAT EACH CAN BE CONNECTED TO THE PROPOSED MAIN LINE.
- PRECAST MANHOLES ARE NOT ACCEPTABLE. ALL MANHOLES SHALL BE CAST IN PLACE.
- ALL PROPOSED MANHOLES SHALL INCLUDE INTERNAL MANHOLE CHIMNEY SEAL AS SEAL AS MANUFACTURED BY CRETEX SPECIALTY PRODUCTS (OF WAUKESHA, WI) OR APPROVED EQUAL. THEY SHALL ALSO INCLUDE A RAINSTOPPER AS MANUFACTURED BY SOUTHWESTERN PACKING & SEALS (OF SHREVEPORT, LA) OR APPROVED EQUAL.
- HANG OVERLAY SHALL BE A MINIMUM 1 1/2" COMPACTED IN PLACE AND ALLOW FOR POSITIVE DRAINAGE. EXISTING SURFACE SHALL RECEIVE A TACK COAT PRIOR TO OVERLAY.
- EXISTING WATER LINE SHALL REMAIN IN SERVICE UNTIL PROPOSED MAIN IS ACCEPTED BY TOWN OF ADDISON.



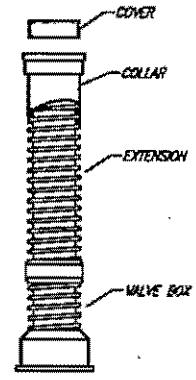
VALVE SETTING & BOX

NO SCALE



VALVE BOX PAD PLAN

NO SCALE

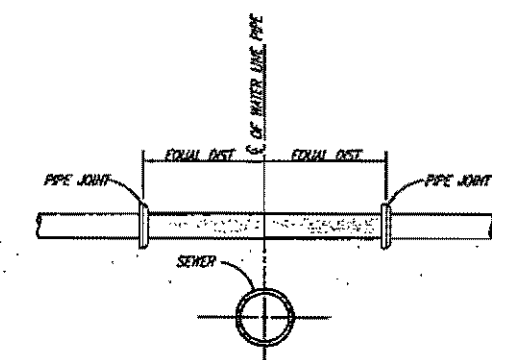


VALVE BOX WITH EXTENSION

NO SCALE

WATER VALVE NOTES:

- 4" TO 12" GATE VALVE SHALL BE RESILIENT SEATED WEDGE GATE VALVES ACCORDANCE WITH ANNA STANDARD C-309.
- A PERMANENTLY ATTACHED VALVE EXTENSION STEM SHALL BE REQUIRED FOR ANY VALVE WHOSE OPERATING NUT IS LOCATED IN EXCESS OF 4 FEET BELOW THE TOP OF VALVE BOX. THIS EXTENSION SHALL BE OF SUFFICIENT LENGTH TO INSURE THAT ITS TOP IS WITHIN 4" OF THE VALVE BOX COVER.
- VALVE SHALL BE WRAPPED IN POLY WRAP.



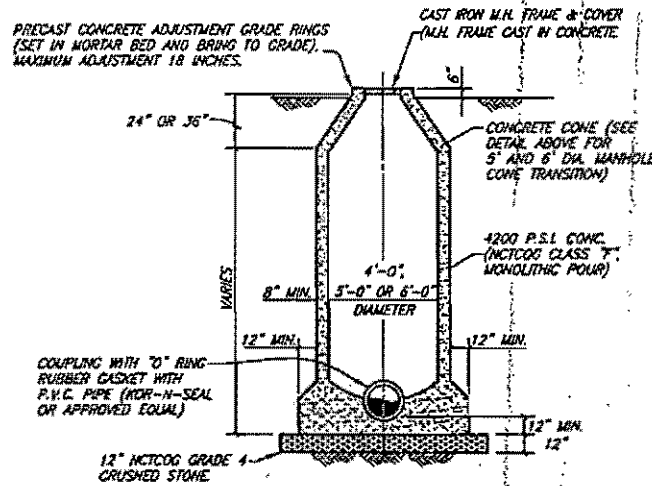
TYPICAL WATER/SEWER CROSSING

NO SCALE

WATER LINE PHASING

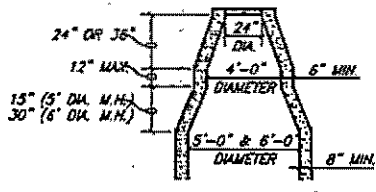
(NOTES APPLY TO ALL SHEETS)

- CONTRACTOR SHALL CONSTRUCT WATER LINE FROM STATION 0+00 TO STATION 16+17.
- CONTRACTOR SHALL TEST LINE AND HAVE ACCEPTED BY TOWN OF ADDISON.
- CONTRACTOR SHALL MAKE SERVICE CONNECTIONS.
- CONTRACTOR SHALL CONSTRUCT WATER LINE FROM 16+17 TO END OF PROJECT.
- CONTRACTOR SHALL TEST WATER LINE STARTING FROM 16+17 TO END OF LINE AND HAVE ACCEPTED BY TOWN OF ADDISON.
- CONTRACTOR SHALL MAKE REMAINING SERVICE CONNECTIONS.



STANDARD MANHOLE ELEVATION

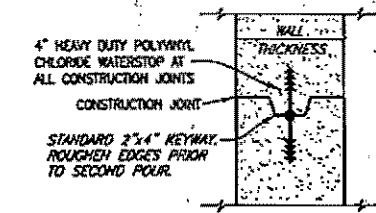
4', 5' & 6' DIAMETER MANHOLES



CONE TRANSITION

5' & 6' DIAMETER MANHOLES ONLY

MANHOLE CONE NOTE:
FOR MANHOLES WITH DIAMETER LARGER THAN 48" I.D., A PRE-CAST FLAT TOP MANHOLE COVER AS PER A.S.T.M. C478 CAN BE INSTALLED.



MANHOLE CONSTRUCTION JOINT
KEYWAY WITH WATERSTOP

WATER MANHOLE (CAST IN PLACE)

PHASING
SANITARY SEWER LINE SHALL BE CONSTRUCTED PRIOR TO WATERLINE. SANITARY SEWER SHALL BE COMPLETED BY APRIL 15, 2000.

PRELIMINARY
FOR APPROVAL ONLY
NOT FOR CONSTRUCTION PURPOSES
NOT FOR BIDDING PURPOSES
NOT FOR PERMIT PURPOSES

TOWN OF ADDISON, TEXAS

MARSH LAKE WATER LINE & BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE

GENERAL NOTES & DETAILS

SHIMEK, JACOBS & FINKLEA, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas

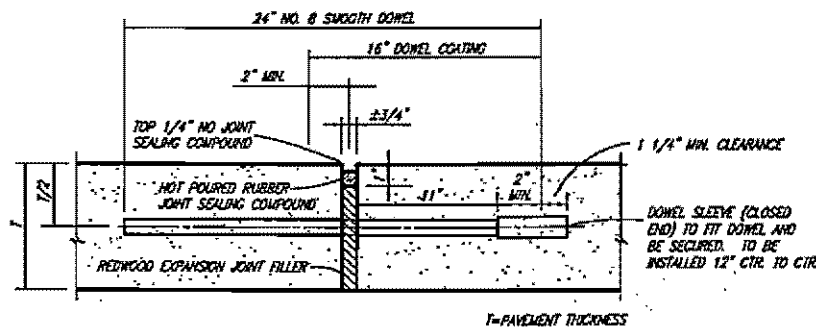


DESIGNED BY: J.W.B. PROJECT: 1999 123
DRAWN BY: S.J. & F. DATE: FEBRUARY, 2000
SHEET NO. 14 OF 16 SHEETS

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.

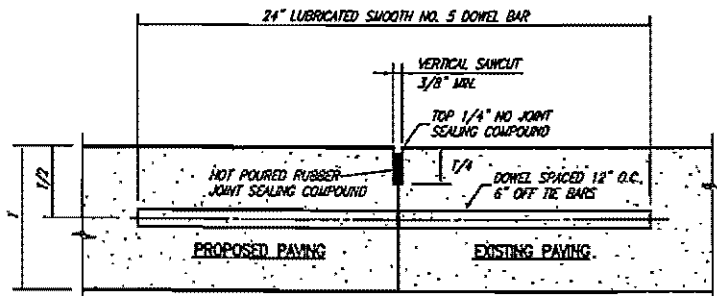
DATE: _____

06/10/00 ACS 99123-14.DWG DECK'S: JHREEL-27, RC-55K, VARDY, MANHOLE



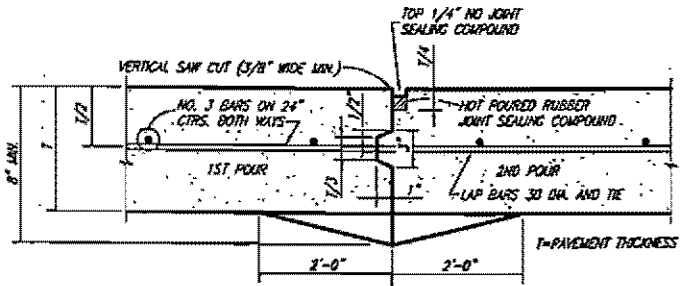
- TRANSVERSE EXPANSION JOINT NOTES:**
1. DOWELS AND REINFORCING BARS SHALL BE SUPPORTED BY AN APPROVED DEVICE.
 2. TRANSVERSE EXPANSION JOINTS SHALL BE SPACED AT 400 FT. MAXIMUM AND AT ALL INTERSECTIONS.

TRANSVERSE EXPANSION JOINT
NO SCALE



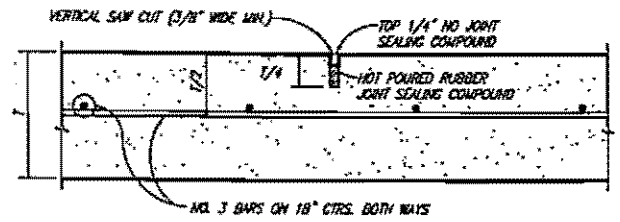
NOTE: DOWEL BARS SHALL BE DRILLED INTO PAVEMENT HORIZONTALLY BY USE OF A MECHANICAL DR. DRILLING BY HAND IS NOT ACCEPTABLE. PUSHING DOWEL BARS INTO GREEN CONCRETE IS NOT ACCEPTABLE.

CONNECTION TO EXISTING PAVEMENT
NOT TO SCALE



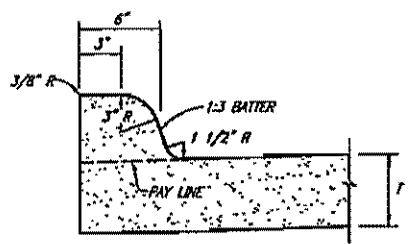
- CONSTRUCTION JOINT NOTES:**
1. CONTRACTOR SHALL PROTECT KEYWAY PRIOR TO SECOND POUR. IF LONGITUDINAL KEYWAY IS DAMAGED, CONTRACTOR SHALL REPAIR WITH THE USE OF LONGITUDINAL BUTT JOINT (DRILL DOWELS INTO FIRST POUR).
 2. THICKENED EDGES ARE REQUIRED FOR FUTURE MOODING ONLY.

CONSTRUCTION JOINT
NO SCALE

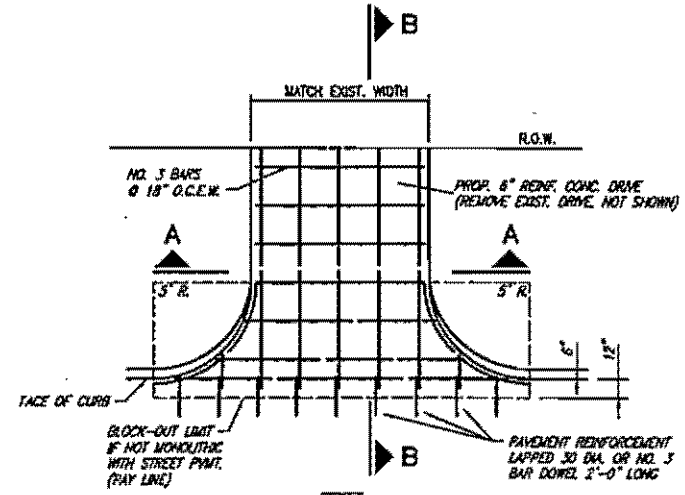


TRANSVERSE JOINTS SPACED 15 FT. C-C (MAX.)
LONGITUDINAL JOINTS SPACED 20 FT. C-C (MAX.)

SAWED DUMMY JOINT
NO SCALE

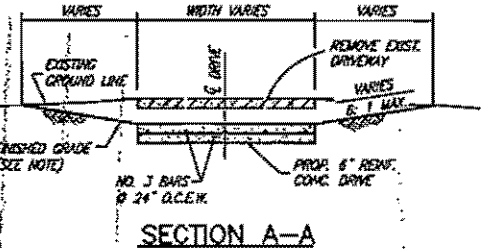


INTEGRAL CURB
NO SCALE

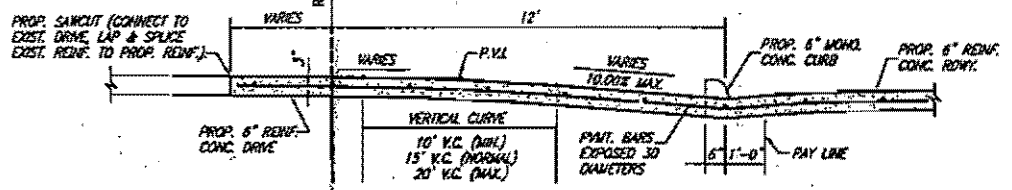


DRIVEWAY RETURN TO STREET

NOTE: FINISHED GRADING WITHIN THE R.O.W. SHALL BE BLOCK SLOTTED TO RESTORE THE LANDSCAPING TO ITS PRE-CONSTRUCTION APPEARANCE OR BETTER.



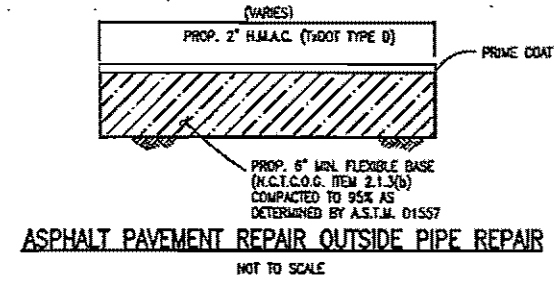
SECTION A-A



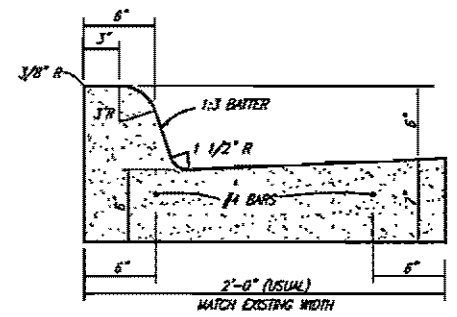
SECTION B-B

DRIVEWAY RETURN SECTIONS

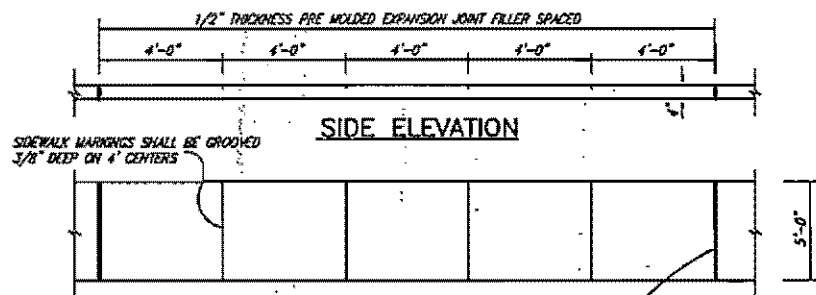
- GENERAL PAVING NOTES**
1. CONTRACTOR SHALL SAWCUT ALL PAVEMENT, DURING REMOVAL OF CONCRETE, CONTRACTOR SHALL EXPOSE ALL REINFORCING STEEL.
 2. SAW CUT SHALL BE FULL DEPTH OF CONCRETE OR ASPHALT PAVEMENT.
 3. DURING RECONSTRUCTION, NEW REINFORCING STEEL SHALL BE TIED TO EXISTING STEEL. IF NO EXISTING STEEL IN PAVEMENT, CONTRACTOR SHALL CONSTRUCT LONGITUDINAL BUTT JOINTS UTILIZING NO. 4 SMOOTH BARS.
 4. CONCRETE SHALL BE 10" REINFORCED, 4000 P.S.I. STRENGTH AT 28 DAYS.



ASPHALT PAVEMENT REPAIR OUTSIDE PIPE REPAIR
NOT TO SCALE

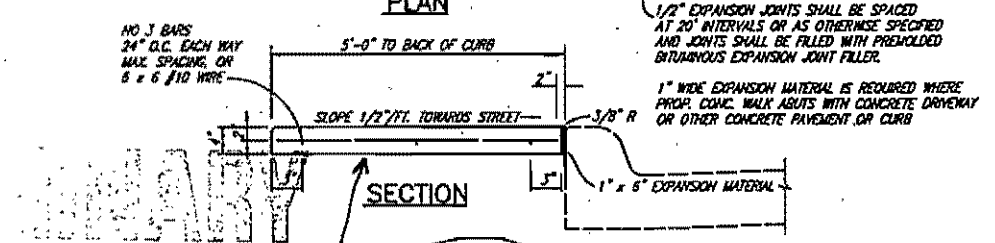


CONCRETE CURB AND GUTTER
NO SCALE



SIDE ELEVATION

PLAN



SECTION

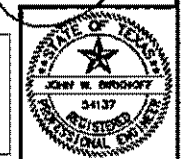
CONCRETE SIDEWALK

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PRELIMINARY
FOR PERMITS
NOT FOR CONSTRUCTION
NOT FOR BIDDING

SAND?

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.
DATE: _____



TOWN OF ADDISON, TEXAS
MARSH LAKE WATER LINE & BROOKHAVEN CLUB DRIVE SANITARY SEWER LINE

DETAILS

SHIMEK, JACOBS & FINKLEA, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas

DESIGNED BY: J.W.B. PROJECT: 1999 123 SHEET NO. 15
DRAWN BY: S.J. & F. DATE: FEBRUARY, 2000 OF 16 SHEETS

05/03/00 ACS 20123-15.DWG BLOOM'S ASH-REPAIR/UTILITY CONSULT/CURB-CUT DRIVE/CONCRETE/EXP/PLAN/CURB