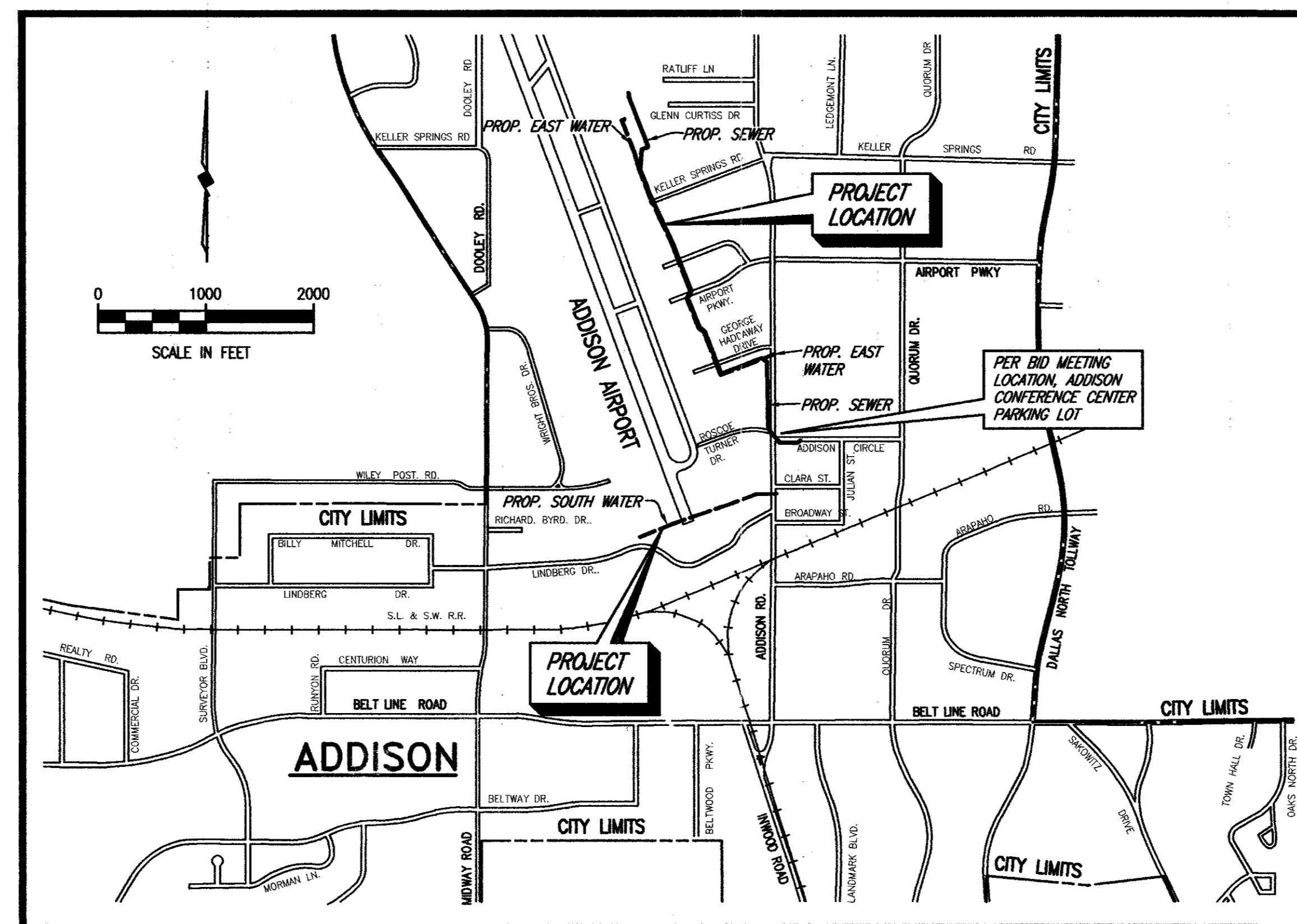


# TOWN OF ADDISON, TEXAS

## CONSTRUCTION PLANS FOR

# ADDISON AIRPORT

# SANITARY SEWER & WATER MAIN REPLACEMENT



**LOCATION MAP**

PREPARED BY

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

SEPTEMBER, 1997

REVISED TO CONFORM  
TO CONSTRUCTION RECORDS  
BY J.W.B. DATE 12/07/98

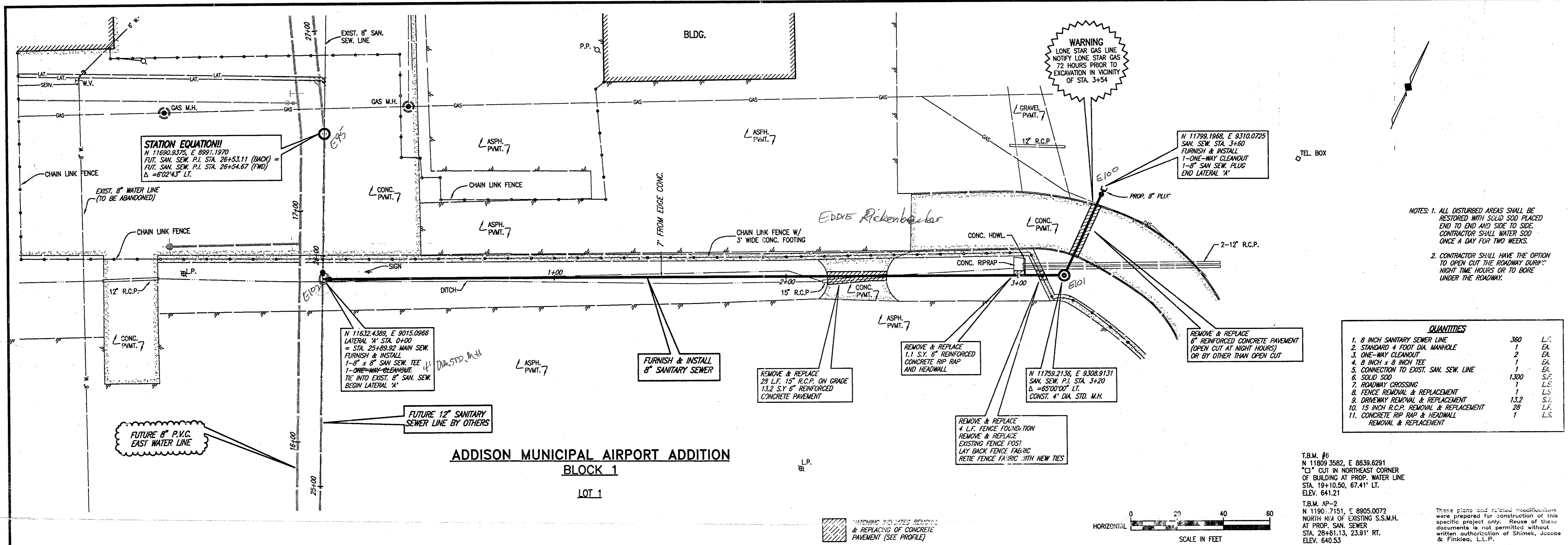
### SHEET INDEX

SHEET NO.	SHEET DESCRIPTION
-	<b>GENERAL</b>
1	COVER SHEET AND LOCATION MAP
1	GENERAL NOTES & HORIZONTAL CONTROL
2	<b>PROPOSED SANITARY SEWER</b>
2	PLAN - PROFILE STA. 0+06.52 TO STA. 4+00
3	PLAN - PROFILE STA. 4+00 TO STA. 9+50
4	PLAN - PROFILE STA. 9+50 TO STA. 14+00
5	PLAN - PROFILE STA. 14+00 TO STA. 19+00
6	PLAN - PROFILE STA. 19+00 TO STA. 25+00
7	PLAN - PROFILE STA. 25+00 TO STA. 30+00
8	PLAN - PROFILE STA. 30+00 TO STA. 35+00
9	PLAN - PROFILE STA. 35+00 TO STA. 39+75
10	PLAN - PROFILE STA. 39+75 TO STA. 42+83.52
11	PROFILE - LAT. SS2 STA. 0+00 TO STA. 3+28.56
12	<b>PROPOSED EAST AIRPORT WATER LINE</b>
12	PLAN - PROFILE STA. 0+07.86 TO STA. 4+50
13	PLAN - PROFILE STA. 4+50 TO STA. 9+50
14	PLAN - PROFILE STA. 9+50 TO STA. 14+50
15	PLAN - PROFILE STA. 14+50 TO STA. 19+50
16	PLAN - PROFILE STA. 19+50 TO STA. 25+00
17	PLAN - PROFILE STA. 25+00 TO STA. 29+00
18	PLAN - PROFILE STA. 29+00 TO STA. 31+25.75
19	<b>PROPOSED SOUTH AIRPORT WATER LINE</b>
19	PLAN - PROFILE STA. 0+00 TO STA. 5+00
20	PLAN - PROFILE STA. 5+00 TO STA. 10+00
21	PLAN - PROFILE STA. 10+00 TO STA. 13+41.57
22 - 25	<b>MISCELLANEOUS</b> STANDARD DETAILS

THESE DOCUMENTS ARE FOR  
BIDDING, CONSTRUCTION,  
AND PERMIT PURPOSES.  
*John W. Birkhoff*  
DATE: 9/3/97



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.



- NOTES:
1. ALL DISTURBED AREAS SHALL BE RESTORED WITH SOLID SOD PLACED END TO END AND SIDE TO SIDE. CONTRACTOR SHALL WATER SOD ONCE A DAY FOR TWO WEEKS.
  2. CONTRACTOR SHALL HAVE THE OPTION TO OPEN CUT THE ROADWAY DURING NIGHT TIME HOURS OR TO BORE UNDER THE ROADWAY.

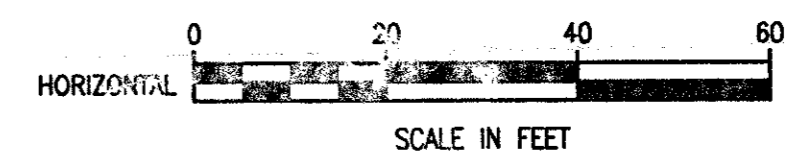
QUANTITIES		
1. 8 INCH SANITARY SEWER LINE	360	L.F.
2. STANDARD 4 FOOT DIA. MANHOLE	1	EA.
3. ONE-WAY CLEANOUT	2	EA.
4. 8 INCH x 8 INCH TEE	1	EA.
5. CONNECTION TO EXIST. SAN. SEW. LINE	1	EA.
6. SOLID SOD	1,300	S.F.
7. ROADWAY CROSSING	1	L.S.
8. FENCE REMOVAL & REPLACEMENT	1	L.S.
9. DRIVEWAY REMOVAL & REPLACEMENT	13.2	S.F.
10. 15 INCH R.C.P. REMOVAL & REPLACEMENT	28	L.F.
11. CONCRETE RIP RAP & HEADWALL REMOVAL & REPLACEMENT	1	L.S.

**ADDISON MUNICIPAL AIRPORT ADDITION  
BLOCK 1**

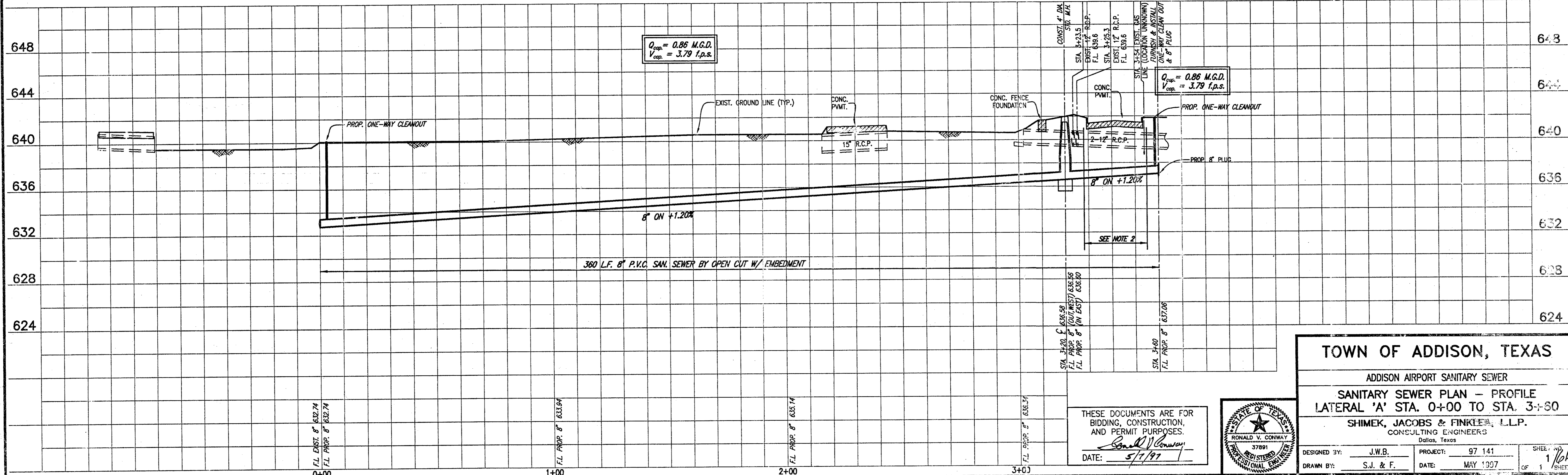
LOT 1

T.B.M. #6  
N 11809.3582, E 8839.6291  
"C" CUT IN NORTHEAST CORNER OF BUILDING AT PROP. WATER LINE STA. 19+10.50, 67.41' LT. ELEV. 641.21

T.B.M. AP-2  
N 1190.7151, E 8905.0072  
NORTH R.I. OF EXISTING S.S.M.H. AT PROP. SAN. SEWER STA. 28+81.13, 23.91' RT. ELEV. 640.53



MATCHING INDICATES REMOVAL & REPLACING OF CONCRETE PAVEMENT (SEE PROFILE)



**TOWN OF ADDISON, TEXAS**

ADDISON AIRPORT SANITARY SEWER

SANITARY SEWER PLAN - PROFILE

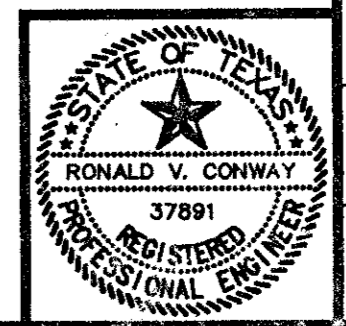
LATERAL 'A' STA. 0+00 TO STA. 3+80

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

DESIGNED BY: J.W.B. PROJECT: 97 141 SHEET: 1/10A  
DRAWN BY: S.J. & F. DATE: MAY 1997 OF 1 SHEETS

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

DATE: 5/7/97



CHANGE ORDER NO. 1 5/2/97

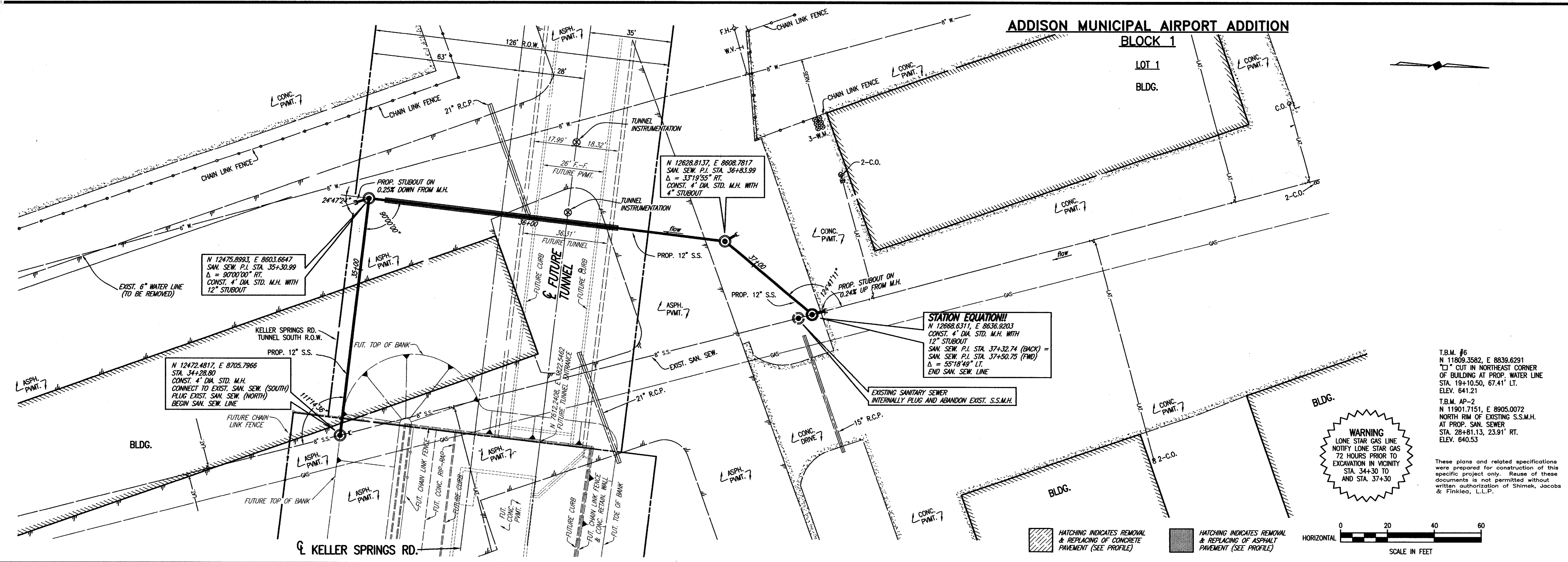


**ADDISON MUNICIPAL AIRPORT ADDITION**

**BLOCK 1**

LOT 1

BLDG.



N 12475.8993, E 8603.6647  
STA. 34+28.80  
Δ = 90°00'00" RT.  
CONST. 4" DIA. STD. M.H. WITH  
12" STUBOUT

N 12472.4817, E 8705.7966  
STA. 34+28.80  
CONST. 4" DIA. STD. M.H.  
CONNECT TO EXIST. SAN. SEW. (SOUTH)  
PLUG EXIST. SAN. SEW. (NORTH)  
BEGIN SAN. SEW. LINE

N 12628.8137, E 8608.7817  
SAN. SEW. P.I. STA. 36+83.99  
Δ = 33°19'55" RT.  
CONST. 4" DIA. STD. M.H. WITH  
4" STUBOUT

**STATION EQUATION!!**  
N 12668.6311, E 8636.9203  
CONST. 4" DIA. STD. M.H. WITH  
12" STUBOUT  
SAN. SEW. P.I. STA. 37+32.74 (BACK) =  
SAN. SEW. P.I. STA. 37+50.75 (FWD)  
Δ = 55°18'49" LT.  
END SAN. SEW. LINE

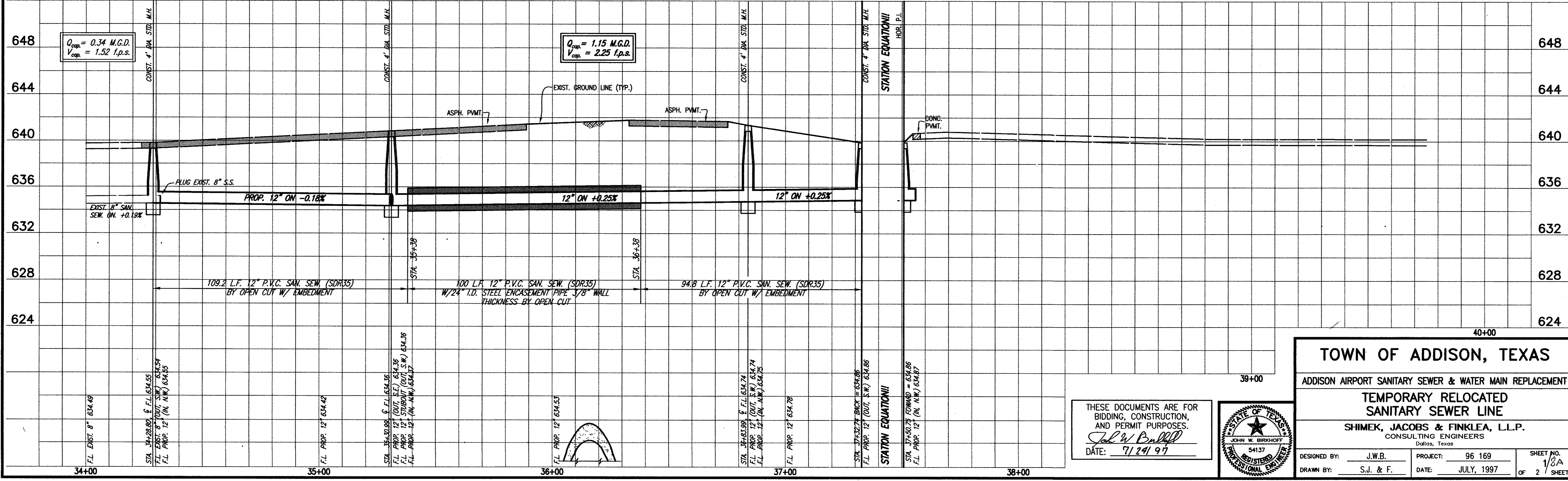
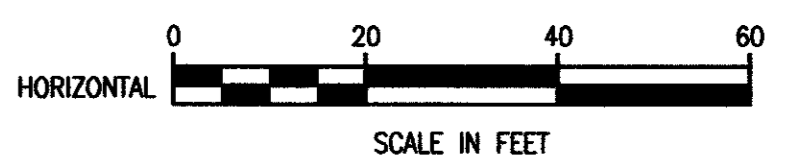
**WARNING**  
LONE STAR GAS LINE  
NOTIFY LONE STAR GAS  
72 HOURS PRIOR TO  
EXCAVATION IN VICINITY  
STA. 34+30 TO  
AND STA. 37+30

T.B.M. #6  
N 11809.3582, E 8839.6291  
"C" CUT IN NORTHEAST CORNER  
OF BUILDING AT PROP. WATER LINE  
STA. 19+10.50, 67.41' LT.  
ELEV. 641.21  
T.B.M. AP-2  
N 11901.7151, E 8905.0072  
NORTH RIM OF EXISTING S.S.M.H.  
AT PROP. SAN. SEWER  
STA. 28+81.13, 23.91' RT.  
ELEV. 640.53

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.

HATCHING INDICATES REMOVAL & REPLACING OF CONCRETE PAVEMENT (SEE PROFILE)

HATCHING INDICATES REMOVAL & REPLACING OF ASPHALT PAVEMENT (SEE PROFILE)



**TOWN OF ADDISON, TEXAS**

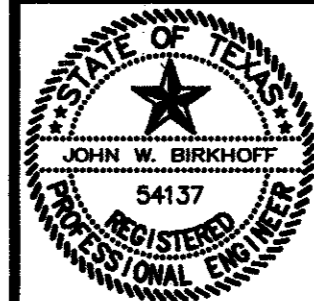
ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT

**TEMPORARY RELOCATED  
SANITARY SEWER LINE**

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

DESIGNED BY: J.W.B. PROJECT: 96 169 SHEET NO. 1/8A  
DRAWN BY: S.J. & F. DATE: JULY, 1997 OF 2 SHEETS

THESE DOCUMENTS ARE FOR  
BIDDING, CONSTRUCTION,  
AND PERMIT PURPOSES.  
*Shimek, Jacobs & Finklea*  
DATE: 7/24/97



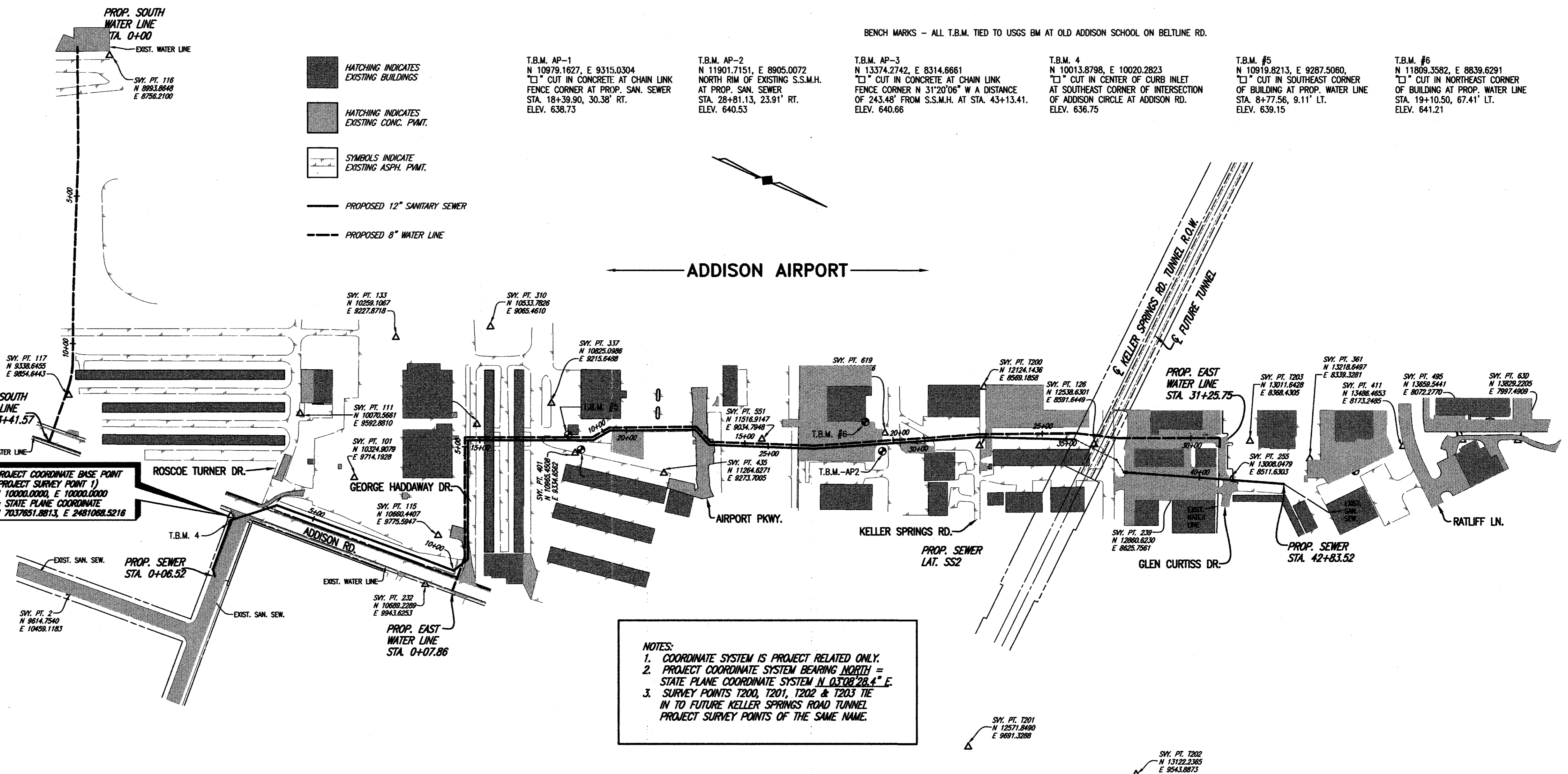


**GENERAL NOTES**

(NOTES APPLY TO ALL SHEETS)

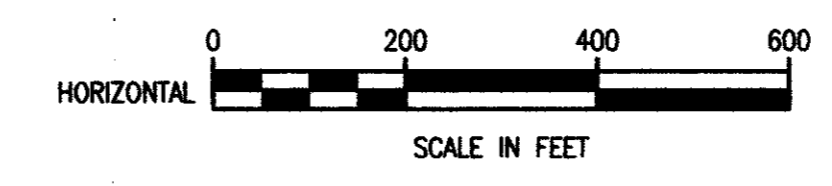
- REASONABLE EFFORT HAS BEEN MADE TO SHOW THE LOCATION OF ALL KNOWN UNDERGROUND UTILITIES AND SERVICE LINES. HOWEVER, THE OWNER ASSUMES NO RESPONSIBILITY FOR FAILURE TO SHOW ANY OR ALL EXISTING SUBSURFACE OR SURFACE UTILITIES OR UTILITY LINES, OR TO SHOW THEM IN THEIR EXACT LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, SERVICE LINES, OR THE LIKE, 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 WYES, STACKS AND PIPE SERVICE CONNECTIONS SHALL BE P.V.C. (SDR-35).
- ALL CONCRETE PAVEMENT (ROADWAYS, CURB & GUTTERS, DRIVES, 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.
- ALL MANHOLE/PIPE CONNECTIONS SHALL INCLUDE A COUPLING WITH O-RING RUBBER GASKET, KOR-N-SEAL, A-LOK OR APPROVED EQUAL.
- 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. ALL COST SHALL BORNE 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/ TAXIWAYS, 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.
- 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 WATER VALVES SHALL BE RESILIENT SEATED WEDGE GATE VALVES.
- EXISTING FIRE HYDRANTS, VALVES AND VALVE STACKS CALLED OUT IN PLANS TO BE REMOVED SHALL BE DISPOSED OF BY THE CONTRACTOR.
- ALL FENCES WHICH ARE REMOVED FOR THE COMMENCEMENT OF CONSTRUCTION SHALL BE REPLACED OR RECONSTRUCTED. ALL POSTS SHALL BE SET IN CONCRETE AND ALL TIES SHALL BE NEW. ALL CONCRETE MOW STRIPS SHALL BE RECONSTRUCTED W/ #3 DEFORMED BARS.
- CONTRACTOR SHALL ABANDON EXISTING SEWER MANHOLES AS SHOWN IN THE PLANS. PAY ITEM FOR ABANDONING AN EXISTING MANHOLE SHALL INCLUDE PLACING 2000 P.S.I. CONCRETE (N.C.T.C.O.G. CLASS "B") 12 INCHES ABOVE THE SPRING LINE OF THE HIGHEST PIPE, AND BACKFILLING AND COMPACTING THE MANHOLE IN 6 INCH LIFTS WITH EXCAVATED OR IMPORTED MATERIAL. REMOVE RING, COVER AND CONE. BACKFILL TOP 12 INCHES UNDER PAVEMENT STRUCTURE WITH SAND. IN OPEN AREAS, BACKFILL TOP 12 INCHES WITH IMPORTED TOPSOIL AND SOLID SOD.
- ALL EXISTING SEWER LINES WHICH ARE TO BE PLUGGED SHALL BE PLUGGED WITH A MINIMUM OF 18 INCHES OF 2000 P.S.I. GROUT (N.C.T.C.O.G. CLASS "B"). THE 18 INCHES OF SEWER LINE TO BE PLUGGED SHALL BE WIRE BRUSHED CLEANED PRIOR TO PLACEMENT OF GROUT.
- 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 VALRICO, FLORIDA (813-681-6024). 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 SOD PLACED END TO END. CONTRACTOR SHALL WATER SOD 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 NOZZLES. MARKERS SHALL BE FROM HYDRA-SHIELD MANUFACTURING 1-800-676-0911 OR EQUAL. THE COLOR SHALL BE RED.
- FINAL LOCATION OF WATER METER AND DOUBLE CHECK VALVE ASSEMBLY 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).
- ALL PAVEMENT REMOVAL AND REPLACEMENT IS SHOWN IN THE PROFILE. SEE SHEET 21 FOR PAVEMENT DETAILS.

**SPECIAL NOTE TO CONTRACTOR:**  
 ALL PROPOSED MANHOLES SHALL INCLUDE INTERNAL MANHOLE CHIMNEY SEAL AS MANUFACTURED BY CRETEX SPECIALTY PRODUCTS (OF WAUKESHA, WI) OR APPROVED EQUAL. THEY SHALL ALSO INCLUDE A RAINTOPPER AS MANUFACTURED BY SOUTHWESTERN PACKING & SEALS (OF SHREVEPORT, LA) OR APPROVED EQUAL.



**NOTES:**  
 1. COORDINATE SYSTEM IS PROJECT RELATED ONLY.  
 2. PROJECT COORDINATE SYSTEM BEARING NORTH = STATE PLANE COORDINATE SYSTEM AL 0308'28.4" E.  
 3. SURVEY POINTS T200, T201, T202 & T203 TIE IN TO FUTURE KELLER SPRINGS ROAD TUNNEL. PROJECT SURVEY POINTS OF THE SAME NAME.

**HORIZONTAL CONTROL PLAN**



**SUMMARY OF ABBREVIATIONS AND DEFINITIONS**

GENERAL TOPOGRAPHY & HORIZONTAL/ VERTICAL CONTROL				TREES & BUSHES	
ABBREVIATION	DEFINITION	ABBREVIATION	DEFINITION	ABBREVIATION	DEFINITION
B.C.	BACK OF CURB	P.C.	POINT OF CURVATURE	B.D.	BOS D'ARC TREE
E	CENTERLINE	P.I.	POINT OF INTERSECTION	B.T.	BLACK THORN TREE
C.M.A.P.	CORRUGATED METAL ARCH PIPE	E	PROPERTY LINE	C.B.	CHINABERRY TREE
C.M.P.	CORRUGATED METAL PIPE	P.P.	POWER POLE	CDR.	CEDAR TREE
C.I.	CAST IRON	P.R.C.	POINT OF REVERSE CURVATURE	C.E.	CEDAR ELM TREE
C.O.	CLEANOUT	P.T.	POINT OF TANGENCY	C.M.	CRAPE MYRTLE TREE
CONN.	CONNECTION	P.V.C.	PLASTIC PIPE	C.P.	CHINESE PISTACHIO TREE
CULV.	CULVERT	P.V.I.	POINT OF VERTICAL INTERSECTION	C.W.	COTTONWOOD TREE
D.I.P.	DUCTILE IRON PIPE	R.C.	RADIUS	CYP.	CYPRESS TREE
EL.	ELEVATION	R.C.	REINFORCED CONCRETE	H.B.	HACKBERRY TREE
ELEC.	BURIED ELECTRICAL POWER LINE	R.C.P.	REINFORCED CONCRETE PIPE	HICK.	HICKORY TREE
ENC.	ENCASEMENT	R.O.W.	RIGHT OF WAY	H.T.	HAWTHORN TREE
E.P.	EDGE OF PAVEMENT	SAN. SEW. OR S.S.	SANITARY SEWER	LG.	LIGUSTRUM BUSH
ESMT.	EASEMENT	S.H.	LAWN SPRINKLER HEAD	L.O.	LIVE OAK TREE
F.-F.	FACE TO FACE	S.S.	SANITARY SEWER	LOC.	LOCUST TREE
F.H.	FIRE HYDRANT	S.S.M.H.	SANITARY SEWER MANHOLE	MAG.	MAGNOLIA TREE
F.M.	FLOW LINE	ST. SEW.	STORM SEWER	MAP.	MAPLE TREE
F.L.	FLOW LINE	S.V.B.	LAWN SPRINKLER VALVE BOX	MSQ.	MESQUITE TREE
G.L.M.	GAS LINE MARKER	T.B.	TELEPHONE CABLE BOX	MIM.	MIMOSA TREE
G.M.	GAS METER	T.C.	TOP OF CURB	MUL.	MULBERRY TREE
G.V.	GAS VALVE	TEL.	BURIED TELEPHONE CABLE	NAN.	NANDENA BUSH
GUT.	GUTTER	T.M.H.	TELEPHONE CABLE MANHOLE	PEC.	PECAN TREE
HOWL.	HEADWALL	T.O.F.	TO FACE (OF CURB)	PER.	PERSIMMON TREE
I.P.F. OR I.R.F.	IRON PIN (ROD) FOUND	T.V.	BURIED TELEVISION CABLE	PHOT.	RED TIPPED PHOTINIA BUSH
LL.	LANDSCAPING LIGHT	U.G.C.M.	UNDERGROUND CABLE MARKER	R.B.	REDBUD TREE
L.P.	LIGHT POLE	U.P.M.	UNDERGROUND PIPELINE MARKER	R.O.	RED OAK TREE
L.S.	SANITARY SEWAGE LIFT STATION	V.C.	VERTICAL CURVE	S.G.	SWEET GUM TREE
L.S.T.	LANDSCAPING TIMBERS	W. OR W.L.	WATER LINE	SYC.	SYCAMORE TREE
M.B.	MAILBOX	W.M.	WATER METER	WIL.	WILLOW TREE
M.H.	MANHOLE	W.V.	WATER VALVE		

REVISED TO CONFORM TO CONSTRUCTION RECORDS BY J.W.B. DATE 12/07/98

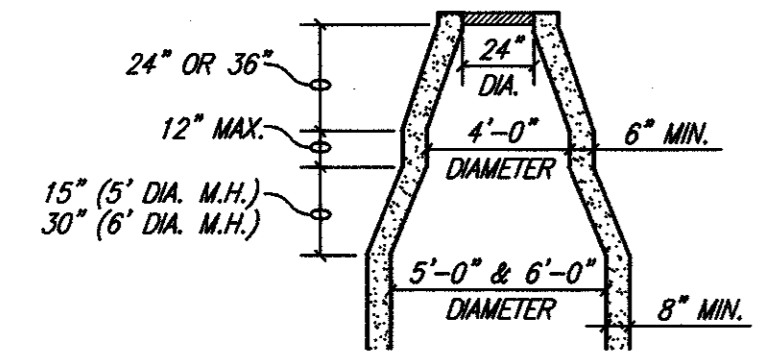
THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.  
 DATE: 9/5/97



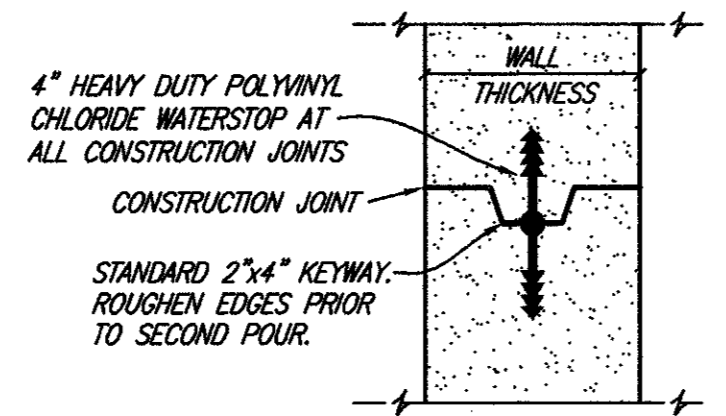
**TOWN OF ADDISON, TEXAS**  
 ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT  
**GENERAL NOTES & HORIZONTAL CONTROL**  
 SHIMEK, JACOBS & FINKLEA, L.L.P.  
 CONSULTING ENGINEERS  
 Dallas, Texas

DESIGNED BY: S.J. & F. PROJECT: 96 169 SHEET NO. 1  
 DRAWN BY: S.J. & F. DATE: FEBRUARY 1997 OF 24 SHEETS

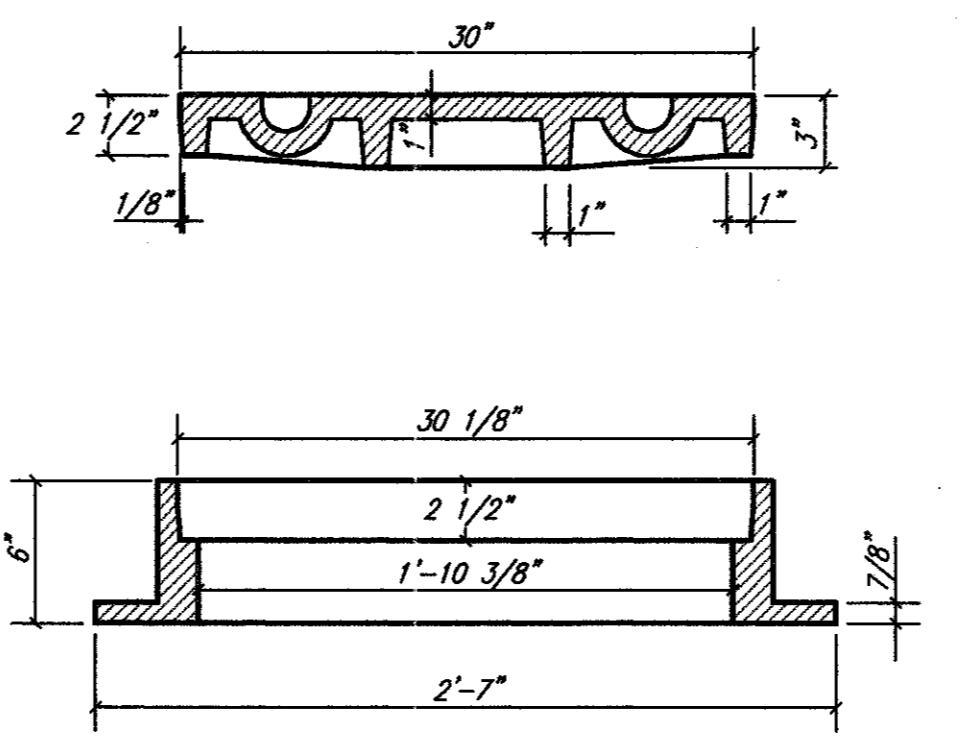
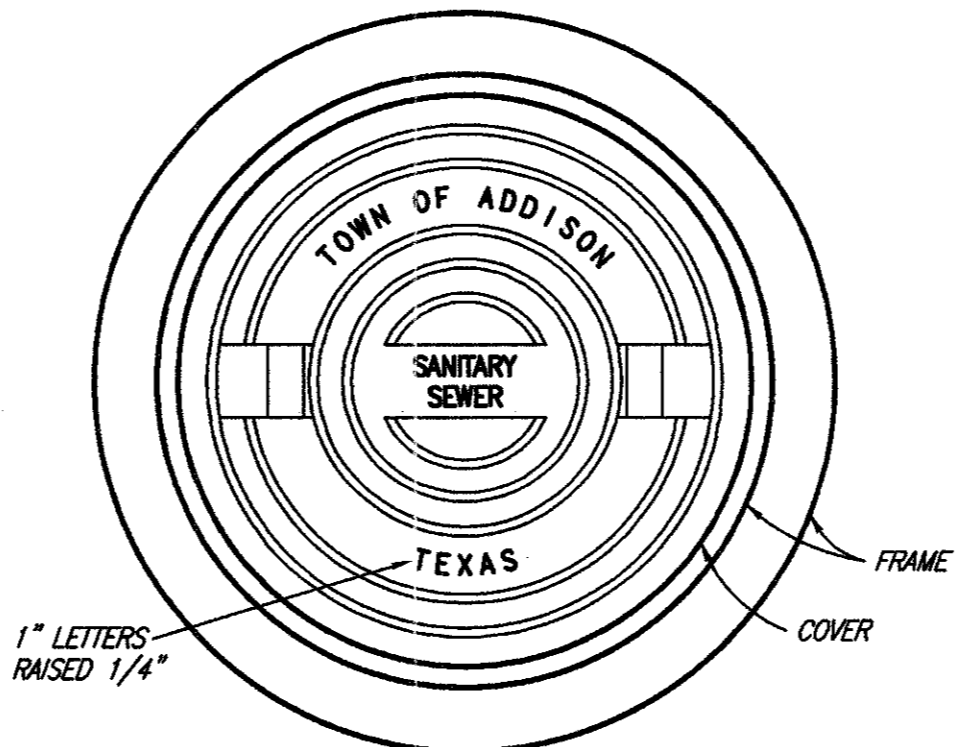




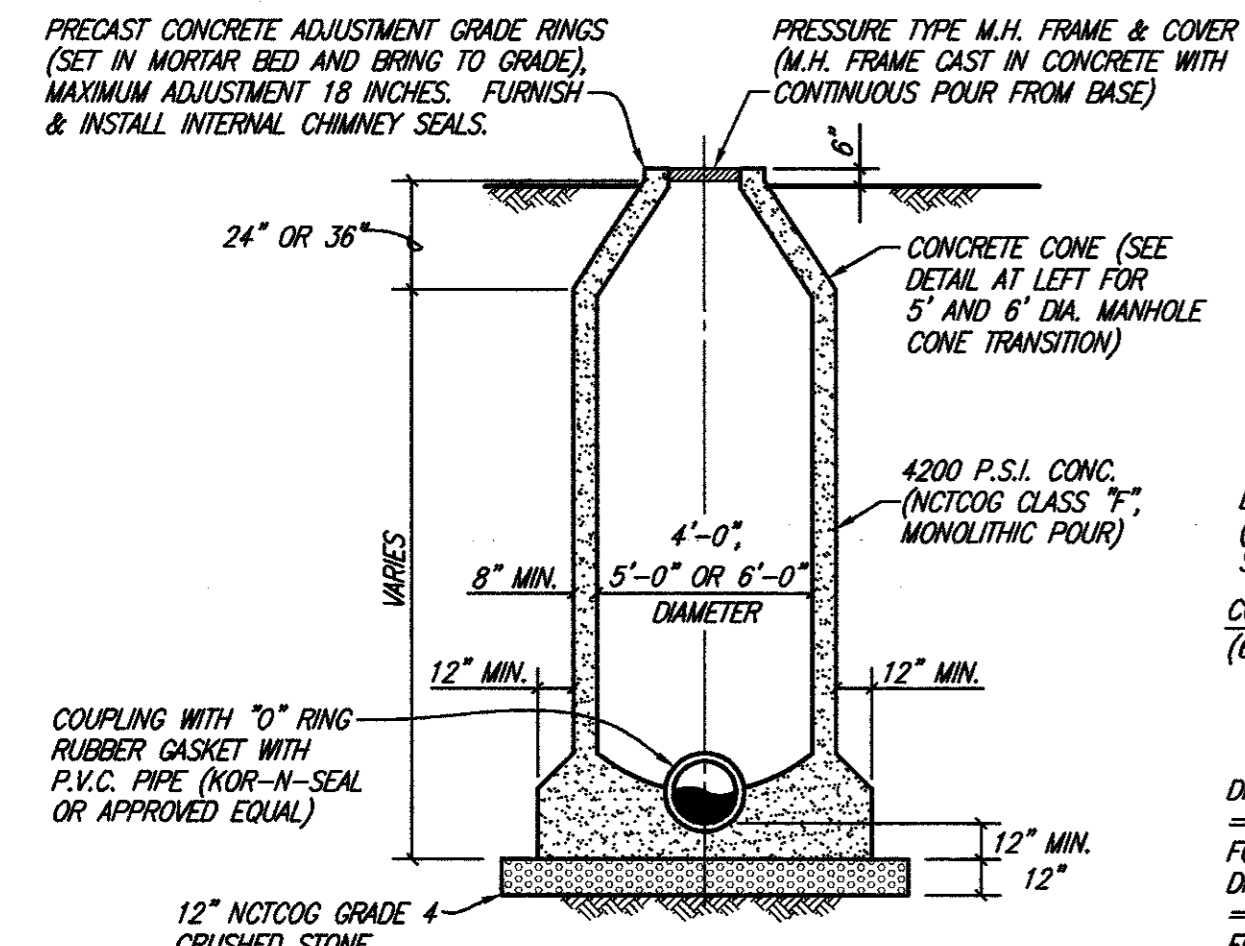
**CONE TRANSITION**  
5' & 6' DIAMETER MANHOLES ONLY



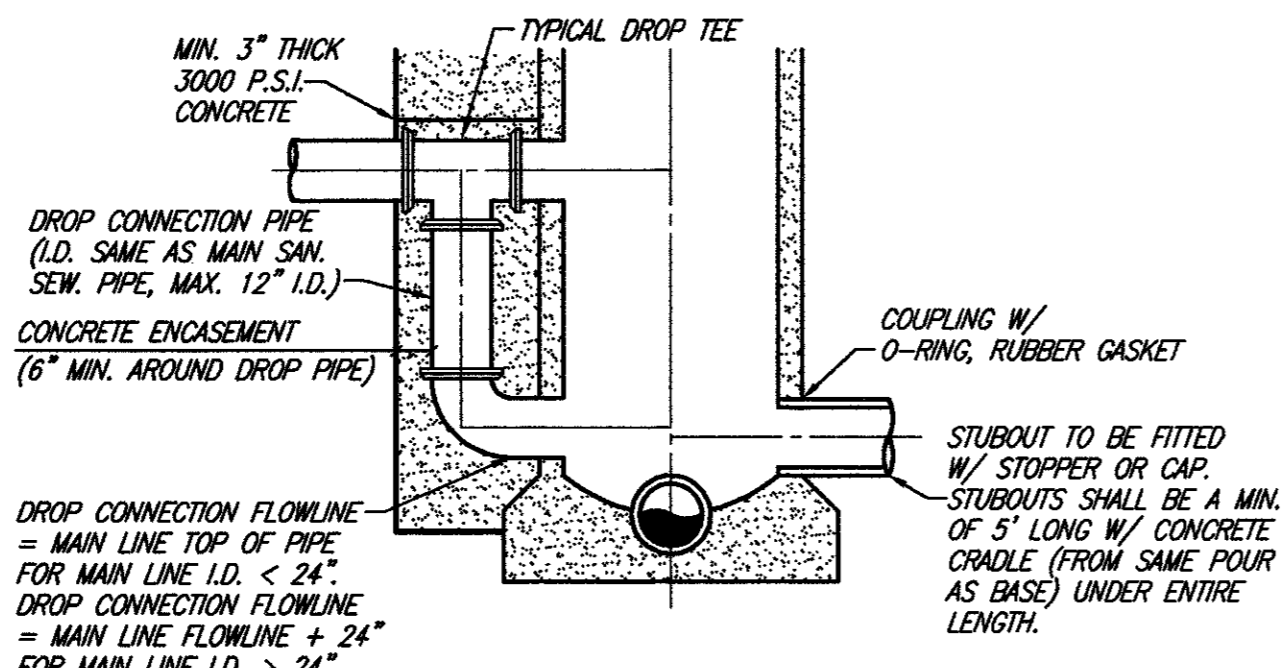
**MANHOLE CONSTRUCTION JOINT**  
KEYWAY WITH WATERSTOP



**MANHOLE RING AND COVER**  
NO SCALE



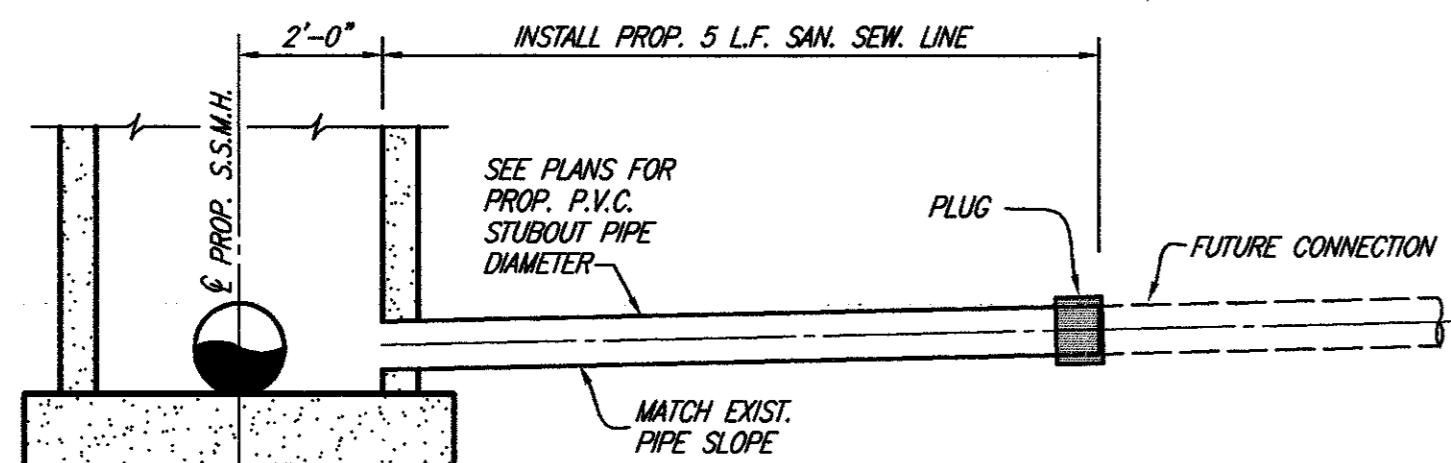
**STANDARD MANHOLE ELEVATION**  
4', 5' & 6' DIAMETER MANHOLES



**DROP MANHOLE ELEVATION**  
4', 5' & 6' DIAMETER MANHOLES

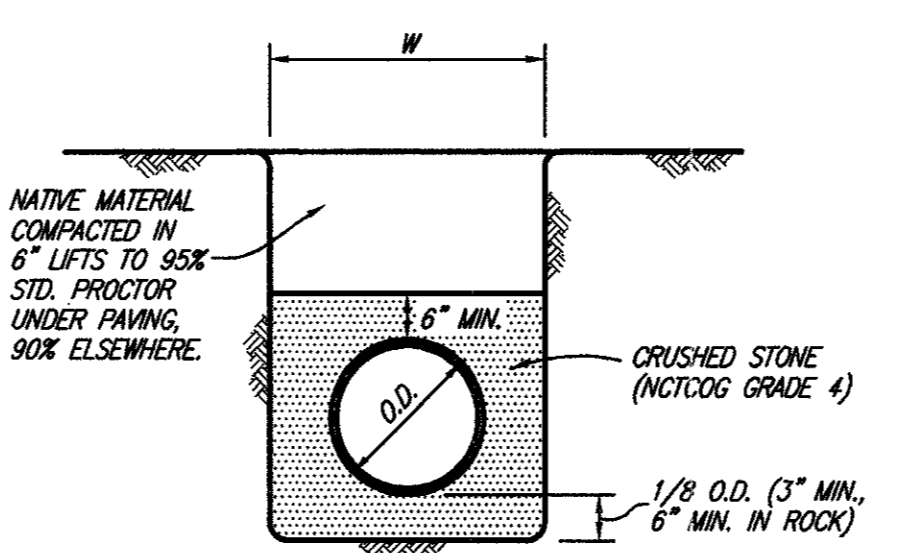
**SANITARY SEWER MANHOLE (CAST IN PLACE)**

PRECAST MANHOLES NOT ACCEPTABLE IN ADDISON. MANHOLES SHALL BE PLUMB TO WITHIN 1 INCH FOR EVERY 5 FEET OF VERTICAL DEPTH.  
NO SCALE



**STUBOUT & PLUG FOR FUTURE CONNECTIONS**  
NO SCALE

NOTE:  
MATCH SOFFITS UPSTREAM OF MANHOLE  
MATCH FLOWLINES DOWNSTREAM OF MANHOLE



**CLASS H EMBEDMENT**

P.V.C. PIPE ONLY  
STD. P.V.C. SEWER

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.

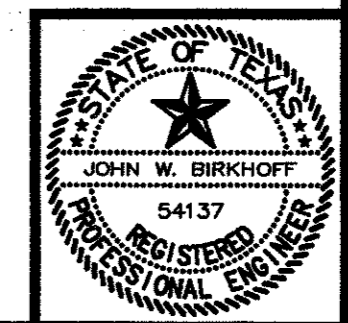
**TOWN OF ADDISON, TEXAS**

ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT

**STANDARD DETAILS**

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

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.  
DATE: 7/24/97



DESIGNED BY: S.J. & F.	PROJECT: 96 169	SHEET NO. 2
DRAWN BY: S.J. & F.	DATE: JULY 1997	OF 2 SHEETS



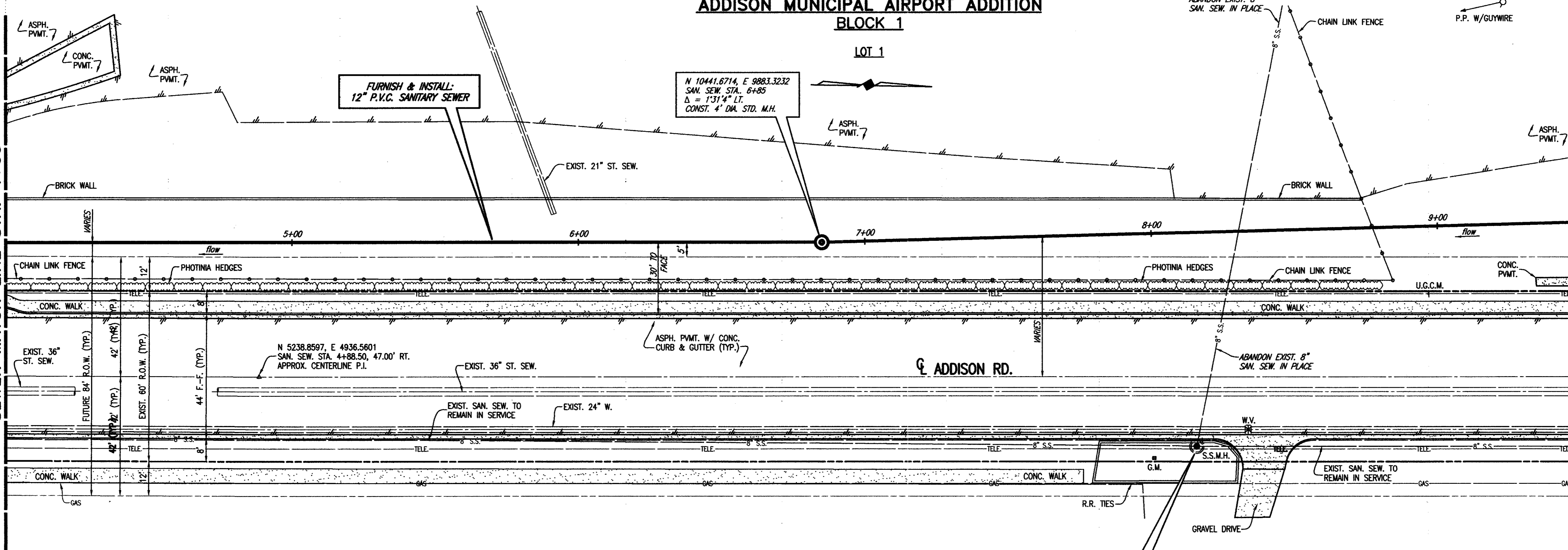




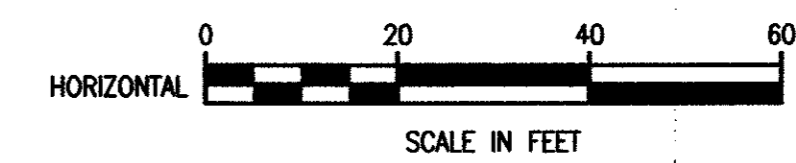
**ADDISON MUNICIPAL AIRPORT ADDITION  
BLOCK 1**

N 10157.3587, E 9903.1047  
SEWER MATCH LINE STA. 4+00

SEWER MATCH LINE STA. 9+48  
N 10705.5486, E 9857.9785

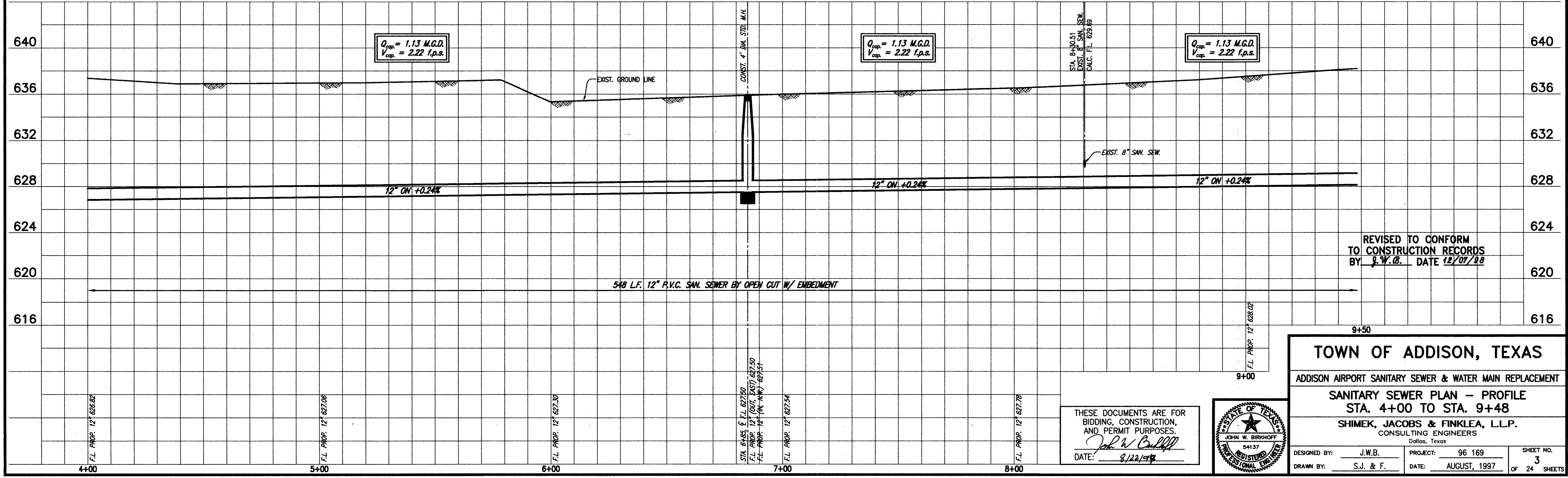


- HATCHING INDICATES PIPE JOINT CENTERED ON SANITARY SEWER LINE (SEE PROFILE)
- HATCHING INDICATES REMOVAL & REPLACING OF CONCRETE PAVEMENT (SEE PROFILE)
- HATCHING INDICATES REMOVAL & REPLACING OF ASPHALT PAVEMENT (SEE PROFILE)
- HATCHING INDICATES WATER LINE BY OTHER THAN OPEN CUT (SEE PROFILE)



T.B.M. 4  
N 10013.8798, E 10020.2823  
"I" CUT IN CENTER OF CURB INLET  
AT SOUTHEAST CORNER OF INTERSECTION  
OF ADDISON CIRCLE AT ADDISON RD.  
ELEV. 636.75

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.

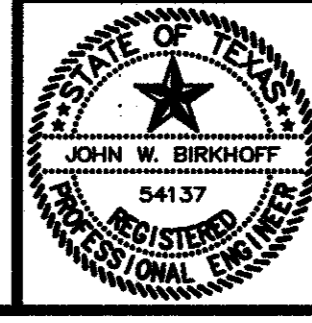


REVISED TO CONFORM TO CONSTRUCTION RECORDS BY J.V.B. DATE 12/07/88

**TOWN OF ADDISON, TEXAS**  
ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT  
**SANITARY SEWER PLAN - PROFILE**  
STA. 4+00 TO STA. 9+48  
SHIMEK, JACOBS & FINKLEA, L.L.P.  
CONSULTING ENGINEERS  
Dallas, Texas

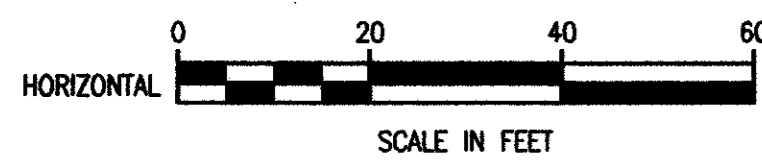
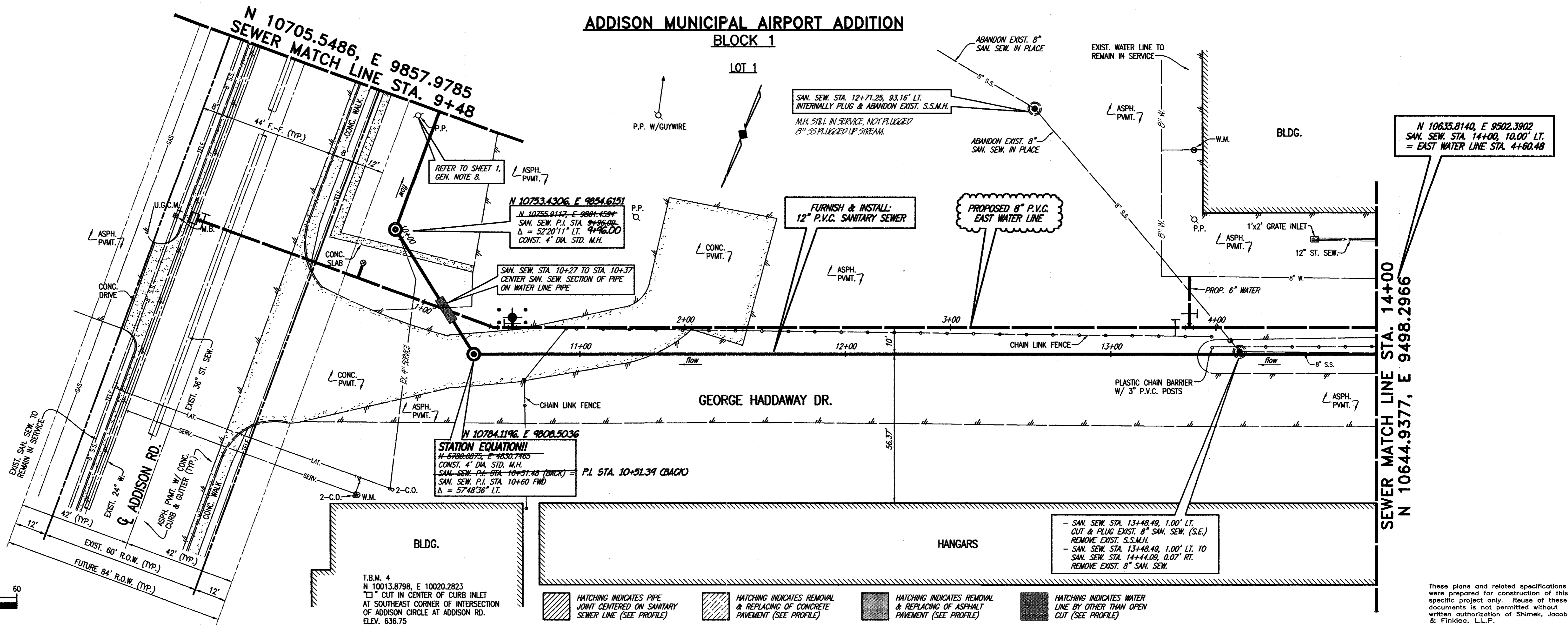
DESIGNED BY: J.W.B. PROJECT: 96 169 SHEET NO. 3  
DRAWN BY: S.J. & F. DATE: AUGUST, 1997 OF 24 SHEETS

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.  
*John W. Birkhoff*  
DATE: 8/22/97



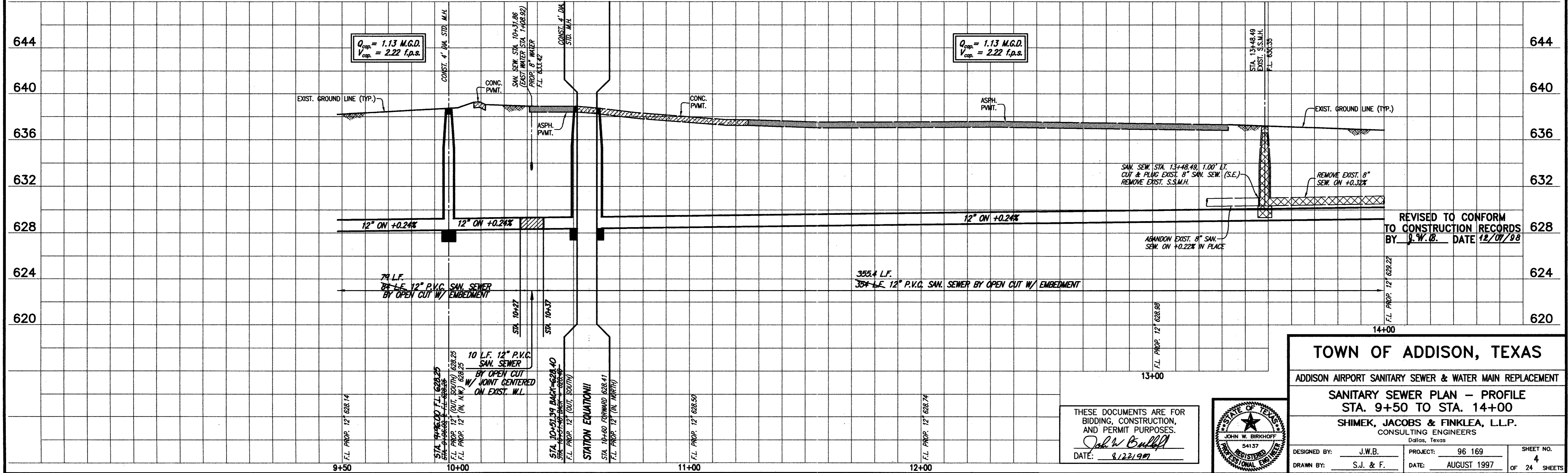


**ADDISON MUNICIPAL AIRPORT ADDITION  
BLOCK 1**



- HATCHING INDICATES PIPE JOINT CENTERED ON SANITARY SEWER LINE (SEE PROFILE)
- HATCHING INDICATES REMOVAL & REPLACING OF CONCRETE PAVEMENT (SEE PROFILE)
- HATCHING INDICATES REMOVAL & REPLACING OF ASPHALT PAVEMENT (SEE PROFILE)
- HATCHING INDICATES WATER LINE BY OTHER THAN OPEN CUT (SEE PROFILE)

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.

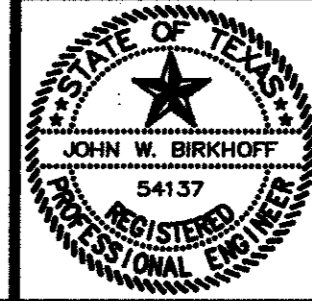


REVISED TO CONFORM TO CONSTRUCTION RECORDS BY J.W.B. DATE 12/07/98

**TOWN OF ADDISON, TEXAS**  
 ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT  
**SANITARY SEWER PLAN - PROFILE**  
 STA. 9+50 TO STA. 14+00  
**SHIMEK, JACOBS & FINKLEA, L.L.P.**  
 CONSULTING ENGINEERS  
 Dallas, Texas

DESIGNED BY: J.W.B. PROJECT: 96 169 SHEET NO. 4  
 DRAWN BY: S.J. & F. DATE: AUGUST 1997 OF 24 SHEETS

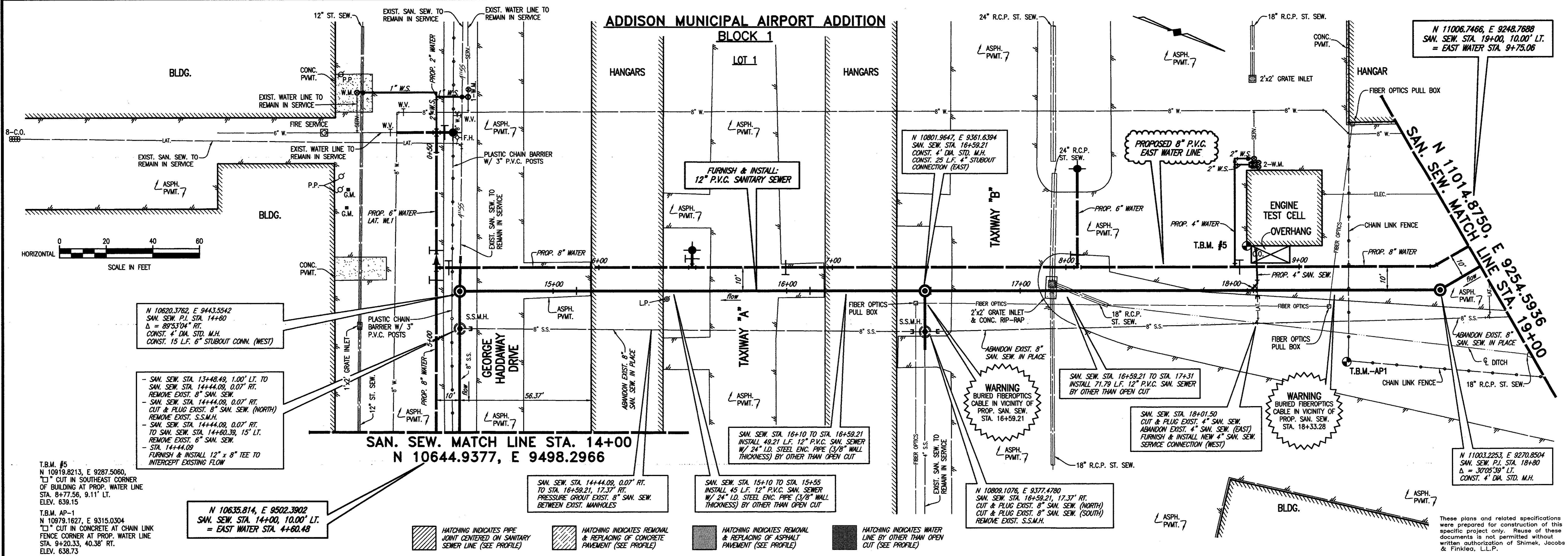
THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.  
 DATE: 8/22/97





**ADDISON MUNICIPAL AIRPORT ADDITION**

**BLOCK 1**



N 10620.3762, E 9443.5542  
SAN. SEW. P.I. STA. 14+60  
Δ = 89°33'04" RT.  
CONST. 4" DIA. STD. M.H.  
CONST. 15' L.F. 6" STUBOUT CONN. (WEST)

SAN. SEW. STA. 13+48.49, 1.00' LT. TO  
SAN. SEW. STA. 14+44.09, 0.07' RT.  
REMOVE EXIST. 8" SAN. SEW.  
SAN. SEW. STA. 14+44.09, 0.07' RT.  
CUT & PLUG EXIST. 8" SAN. SEW. (NORTH)  
REMOVE EXIST. S.S.M.H.  
SAN. SEW. STA. 14+44.09, 0.07' RT.  
TO SAN. SEW. STA. 14+60.39, 15' LT.  
REMOVE EXIST. 6" SAN. SEW.  
STA. 14+44.09  
FURNISH & INSTALL 12" x 8" TEE TO  
INTERCEPT EXISTING FLOW

T.B.M. #5  
N 10919.8213, E 9287.5060,  
CUT IN SOUTHEAST CORNER  
OF BUILDING AT PROP. WATER LINE  
STA. 8+77.56, 9.11' LT.  
ELEV. 638.15

T.B.M. AP-1  
N 10979.1627, E 9315.0304  
CUT IN CONCRETE AT CHAIN LINK  
FENCE CORNER AT PROP. WATER LINE  
STA. 9+20.33, 40.38' RT.  
ELEV. 638.73

N 10635.814, E 9502.3902  
SAN. SEW. STA. 14+00, 10.00' LT.  
= EAST WATER STA. 4+60.48

SAN. SEW. MATCH LINE STA. 14+00  
N 10644.9377, E 9498.2966

SAN. SEW. STA. 14+44.09, 0.07' RT.  
TO STA. 16+59.21, 17.37' RT.  
PRESSURE GROUT EXIST. 8" SAN. SEW.  
BETWEEN EXIST. MANHOLES

SAN. SEW. STA. 15+10 TO STA. 15+55  
INSTALL 45 L.F. 12" P.V.C. SAN. SEWER  
W/ 24" I.D. STEEL ENC. PIPE (3/8" WALL  
THICKNESS) BY OTHER THAN OPEN CUT

WARNING  
BURIED FIBEROPTICS  
CABLE IN VICINITY OF  
PROP. SAN. SEW.  
STA. 16+59.21

N 10809.1076, E 9377.4780  
SAN. SEW. STA. 16+59.21, 17.37' RT.  
CUT & PLUG EXIST. 8" SAN. SEW. (NORTH)  
CUT & PLUG EXIST. 8" SAN. SEW. (SOUTH)  
REMOVE EXIST. S.S.M.H.

SAN. SEW. STA. 16+59.21 TO STA. 17+31  
INSTALL 71.79 L.F. 12" P.V.C. SAN. SEWER  
BY OTHER THAN OPEN CUT

SAN. SEW. STA. 18+01.50  
CUT & PLUG EXIST. 4" SAN. SEW.  
ABANDON EXIST. 4" SAN. SEW. (EAST)  
FURNISH & INSTALL NEW 4" SAN. SEW.  
SERVICE CONNECTION (WEST)

WARNING  
BURIED FIBEROPTICS  
CABLE IN VICINITY OF  
PROP. SAN. SEW.  
STA. 18+33.28

N 11003.2253, E 9270.8504  
SAN. SEW. P.I. STA. 18+80  
Δ = 30°05'39" LT.  
CONST. 4" DIA. STD. M.H.

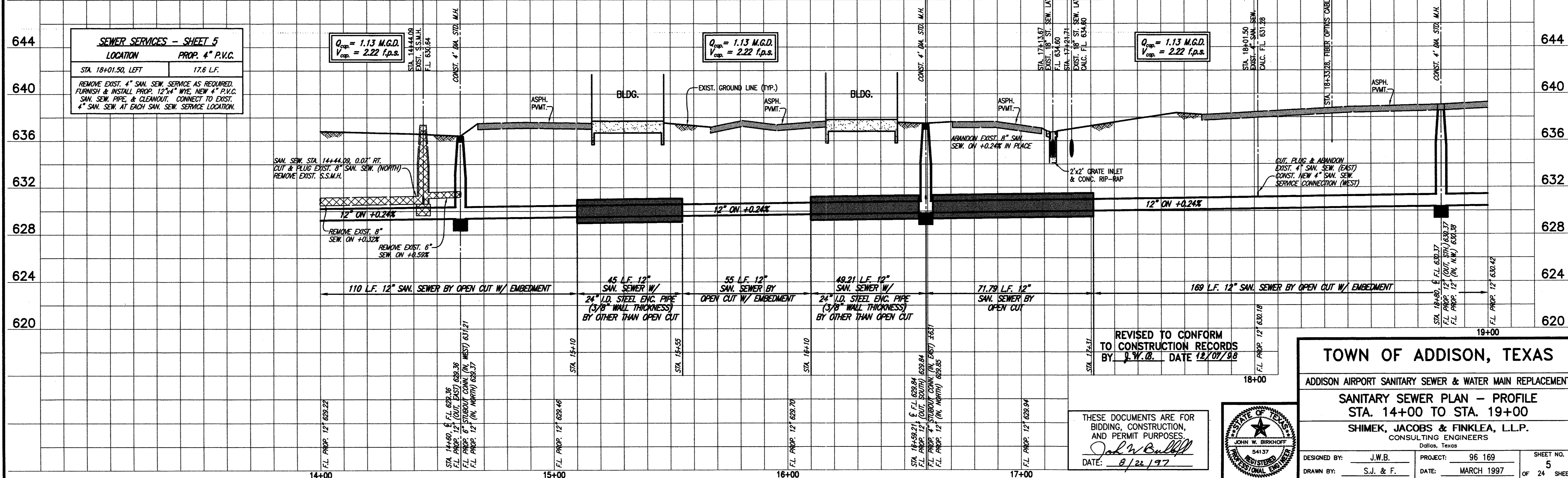
HATCHING INDICATES PIPE  
JOINT CENTERED ON SANITARY  
SEWER LINE (SEE PROFILE)

HATCHING INDICATES REMOVAL  
& REPLACING OF CONCRETE  
PAVEMENT (SEE PROFILE)

HATCHING INDICATES REMOVAL  
& REPLACING OF ASPHALT  
PAVEMENT (SEE PROFILE)

HATCHING INDICATES WATER  
LINE BY OTHER THAN OPEN  
CUT (SEE PROFILE)

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.



**TOWN OF ADDISON, TEXAS**

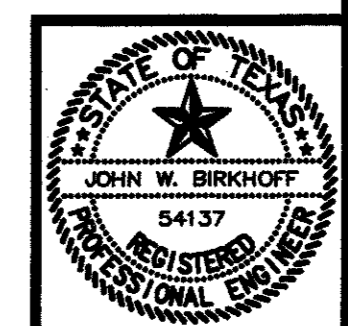
ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT

**SANITARY SEWER PLAN - PROFILE**  
STA. 14+00 TO STA. 19+00

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

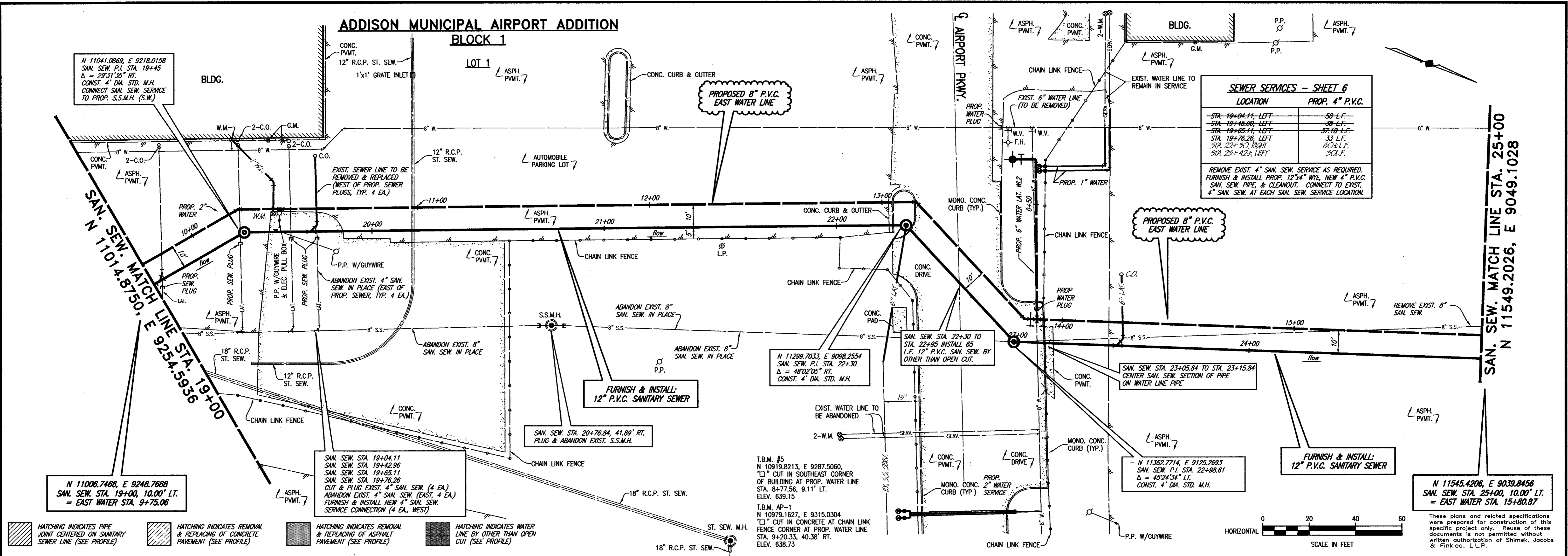
DESIGNED BY: J.W.B. PROJECT: 96 169 SHEET NO. 5  
DRAWN BY: S.J. & F. DATE: MARCH 1997 OF 24 SHEETS

THESE DOCUMENTS ARE FOR  
BIDDING, CONSTRUCTION,  
AND PERMIT PURPOSES.  
*John W. Bullard*  
DATE: 8/22/97





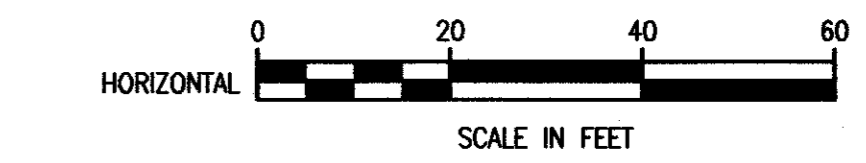
**ADDISON MUNICIPAL AIRPORT ADDITION  
BLOCK 1**



**SEWER SERVICES - SHEET 6**

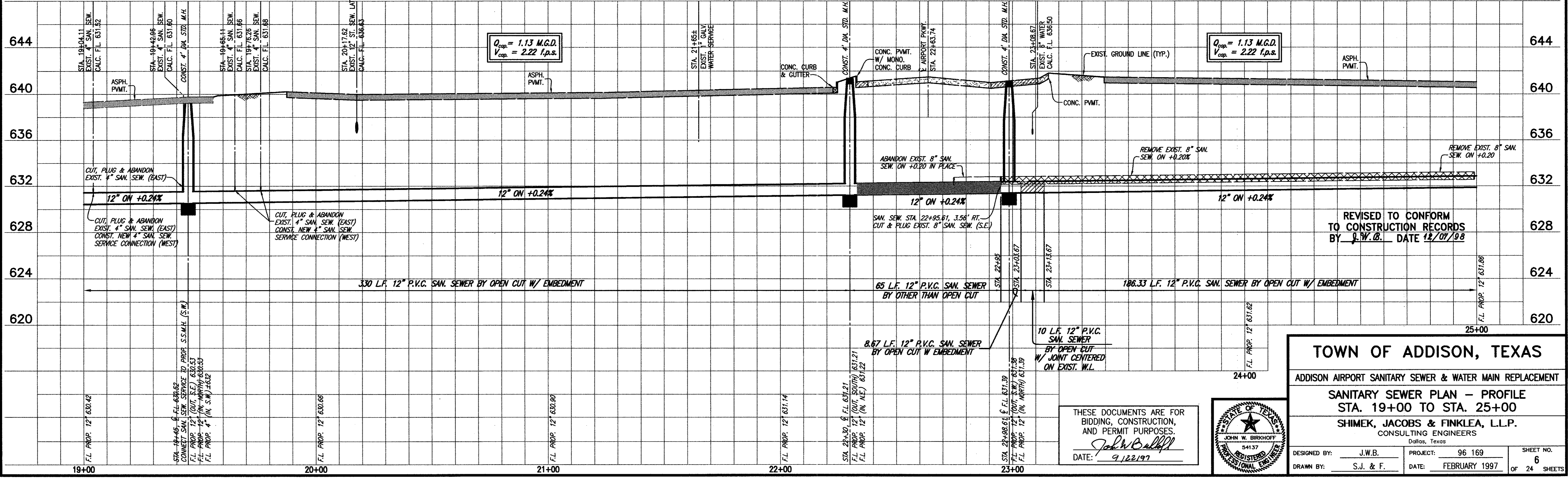
LOCATION	PROP. 4" P.V.C.
STA. 19+04.11, LEFT	58 L.F.
STA. 19+45.00, LEFT	39 L.F.
STA. 19+65.11, LEFT	37.18 L.F.
STA. 19+76.26, LEFT	33 L.F.
STA. 22+50, RIGHT	60 L.F.
STA. 23+42.8, LEFT	30 L.F.

REMOVE EXIST. 4" SAN. SEW. SERVICE AS REQUIRED. FURNISH & INSTALL PROP. 12"x4" WYE, NEW 4" P.V.C. SAN. SEW. PIPE, & CLEANOUT, CONNECT TO EXIST. 4" SAN. SEW. AT EACH SAN. SEW. SERVICE LOCATION.



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.

- HATCHING INDICATES PIPE JOINT CENTERED ON SANITARY SEWER LINE (SEE PROFILE)
- HATCHING INDICATES REMOVAL & REPLACING OF CONCRETE PAVEMENT (SEE PROFILE)
- HATCHING INDICATES REMOVAL & REPLACING OF ASPHALT PAVEMENT (SEE PROFILE)
- HATCHING INDICATES WATER LINE BY OTHER THAN OPEN CUT (SEE PROFILE)



**TOWN OF ADDISON, TEXAS**

ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT

**SANITARY SEWER PLAN - PROFILE**  
STA. 19+00 TO STA. 25+00

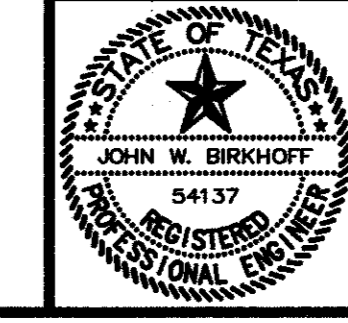
**SHIMEK, JACOBS & FINKLEA, L.L.P.**  
CONSULTING ENGINEERS  
Dallas, Texas

DESIGNED BY: J.W.B. PROJECT: 96 169 SHEET NO. 6  
DRAWN BY: S.J. & F. DATE: FEBRUARY 1997 OF 24 SHEETS

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

*John Bullard*

DATE: 9/22/97





**ADDISON MUNICIPAL AIRPORT ADDITION  
BLOCK 1**

LOT 1  
BLDG.

N 11549.2026, E 9049.1028  
SAN. SEW. MATCH LINE STA. 25+00

N 11995.0850, E 8827.6513  
SAN. SEW. MATCH LINE STA. 30+00

WARNING  
LONE STAR GAS LINE  
NOTIFY LONE STAR GAS  
72 HOURS PRIOR TO  
EXCAVATION IN VICINITY  
OF STA. 26+85.81

**STATION EQUATION!!**  
N 11690.9375, E 8991.1970  
CONST. 4" DIA. STD. M.H.  
SAN. SEW. P.I. STA. 26+53.11 (BACK) =  
SAN. SEW. P.I. STA. 26+54.67 (FWD) =  
Δ = 6'02" 43" LT.

N 11990.3491, E 8818.8439  
SAN. SEW. STA. 30+00, 10.00' LT.  
= EAST WATER STA. 20+79.75

**SEWER SERVICES - SHEET 7**

LOCATION	PROP. 4" P.V.C.
STA. 26+78.31 LEFT	20 L.F.
STA. 26+78.81, LEFT	20 L.F.
STA. 27+02.4 RIGHT	10± L.F.

REMOVE EXIST. 4" SAN. SEW. SERVICE AS REQUIRED.  
FURNISH & INSTALL PROP. 12" 4" WYE & NEW 4" P.V.C.  
SAN. SEW. PIPE. CONNECT TO EXIST.  
4" SAN. SEW. AT EACH SAN. SEW. SERVICE LOCATION.

N 11545.4206, E 9039.8456  
SAN. SEW. STA. 25+00, 10.00' LT.  
= EAST WATER STA. 15+80.87

SAN. SEW. STA. 26+75.73  
SAN. SEW. STA. 26+77.36  
CUT & PLUG EXIST. 4" SAN. SEW. (2 EA.)  
ABANDON EXIST. 4" SAN. SEW. (EAST, 2 EA.)

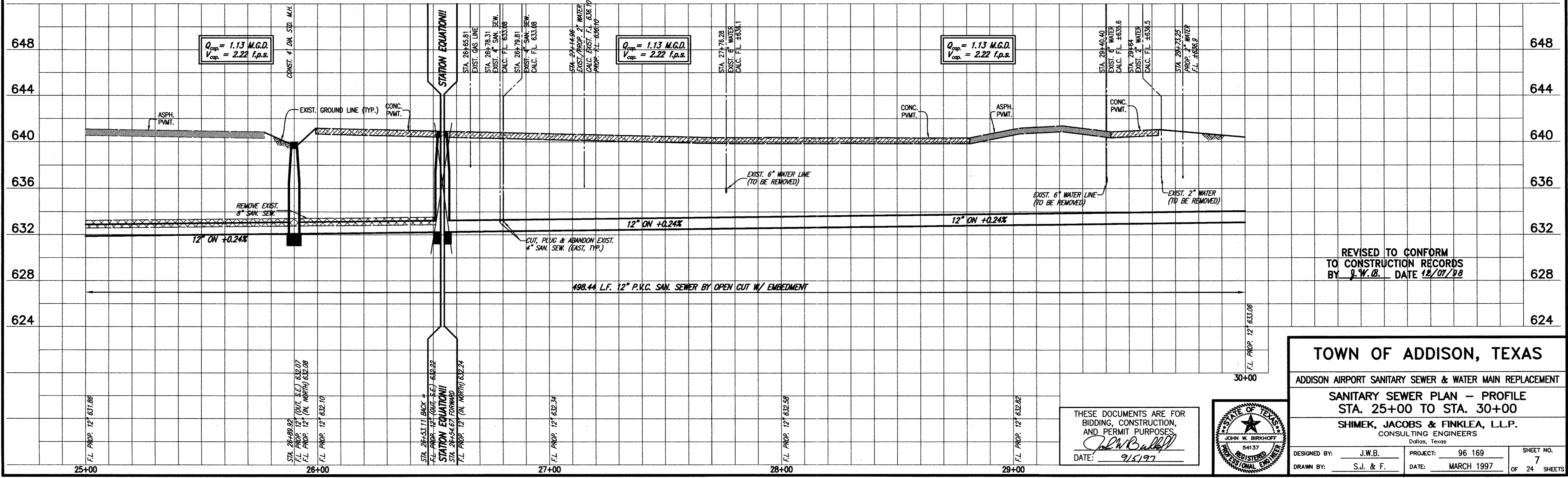
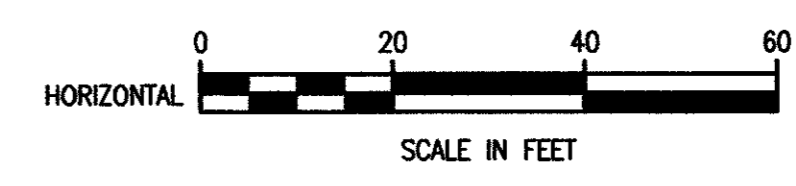
FURNISH & INSTALL:  
12" P.V.C. SANITARY SEWER

T.B.M. #6  
N 11809.3582, E 8839.6291  
"X" CUT IN NORTHEAST CORNER  
OF BUILDING AT PROP. WATER LINE  
STA. 19+10.50, 67.41' LT.  
ELEV. 641.21

T.B.M. AP-2  
N 11901.7151, E 8905.0072  
NORTH RM OF EXISTING S.S.M.H.  
AT PROP. SAN. SEWER  
STA. 28+81.13, 23.91' RT.  
ELEV. 640.53

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.

- HATCHING INDICATES PIPE JOINT CENTERED ON SANITARY SEWER LINE (SEE PROFILE)
- HATCHING INDICATES REMOVAL & REPLACING OF CONCRETE PAVEMENT (SEE PROFILE)
- HATCHING INDICATES REMOVAL & REPLACING OF ASPHALT PAVEMENT (SEE PROFILE)
- HATCHING INDICATES WATER LINE BY OTHER THAN OPEN CUT (SEE PROFILE)



REVISED TO CONFORM  
TO CONSTRUCTION RECORDS  
BY J.W.B. DATE 12/07/98

**TOWN OF ADDISON, TEXAS**

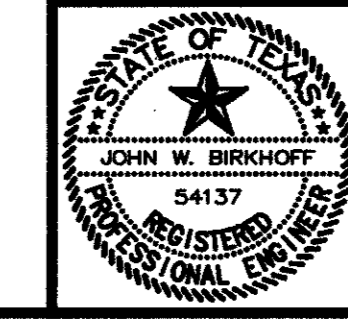
ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT

**SANITARY SEWER PLAN - PROFILE**  
STA. 25+00 TO STA. 30+00

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

DESIGNED BY: J.W.B. PROJECT: 96 169 SHEET NO. 7  
DRAWN BY: S.J. & F. DATE: MARCH 1997 OF 24 SHEETS

THESE DOCUMENTS ARE FOR  
BIDDING, CONSTRUCTION,  
AND PERMIT PURPOSES  
DATE: 9/5/97





**ADDISON MUNICIPAL AIRPORT ADDITION  
BLOCK 1**

LOT 1

**SEWER SERVICES - SHEET 8**

LOCATION	PROP. 4" P.V.C.
* STA. 30+10.27, LEFT	20 L.F.
* STA. 31+32.82, LEFT	20 L.F.
* STA. 32+62.25, RIGHT	100 L.F.
* STA. 32+62.25, LEFT	100 L.F.
* STA. 34+36.06, LEFT	82 L.F.
* STA. 30+69.25, LEFT	80 L.F.

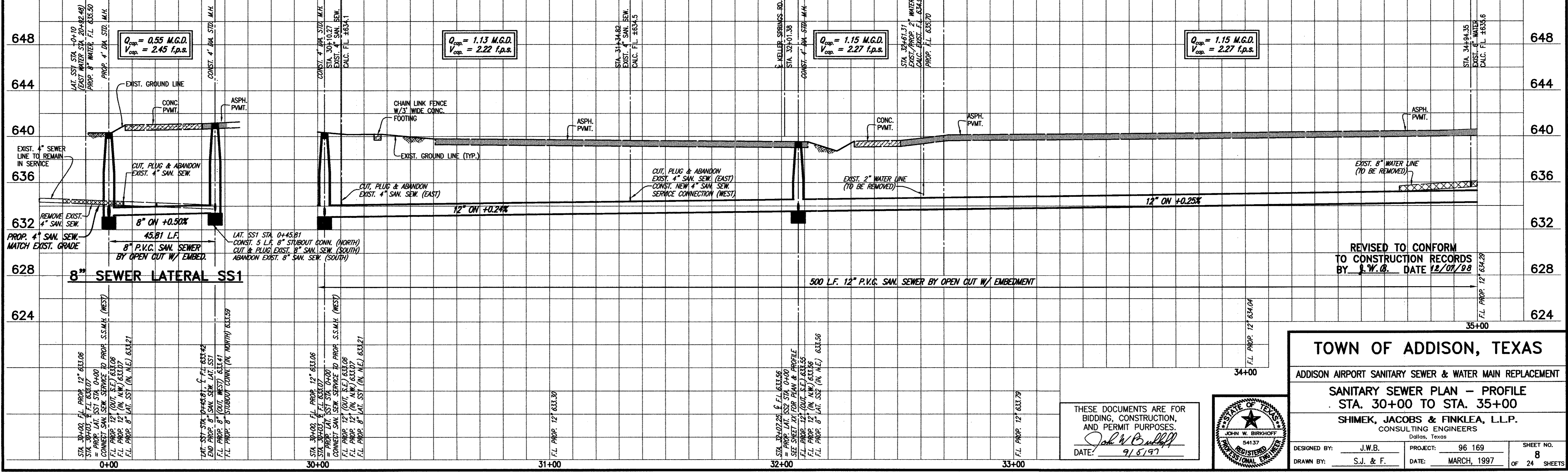
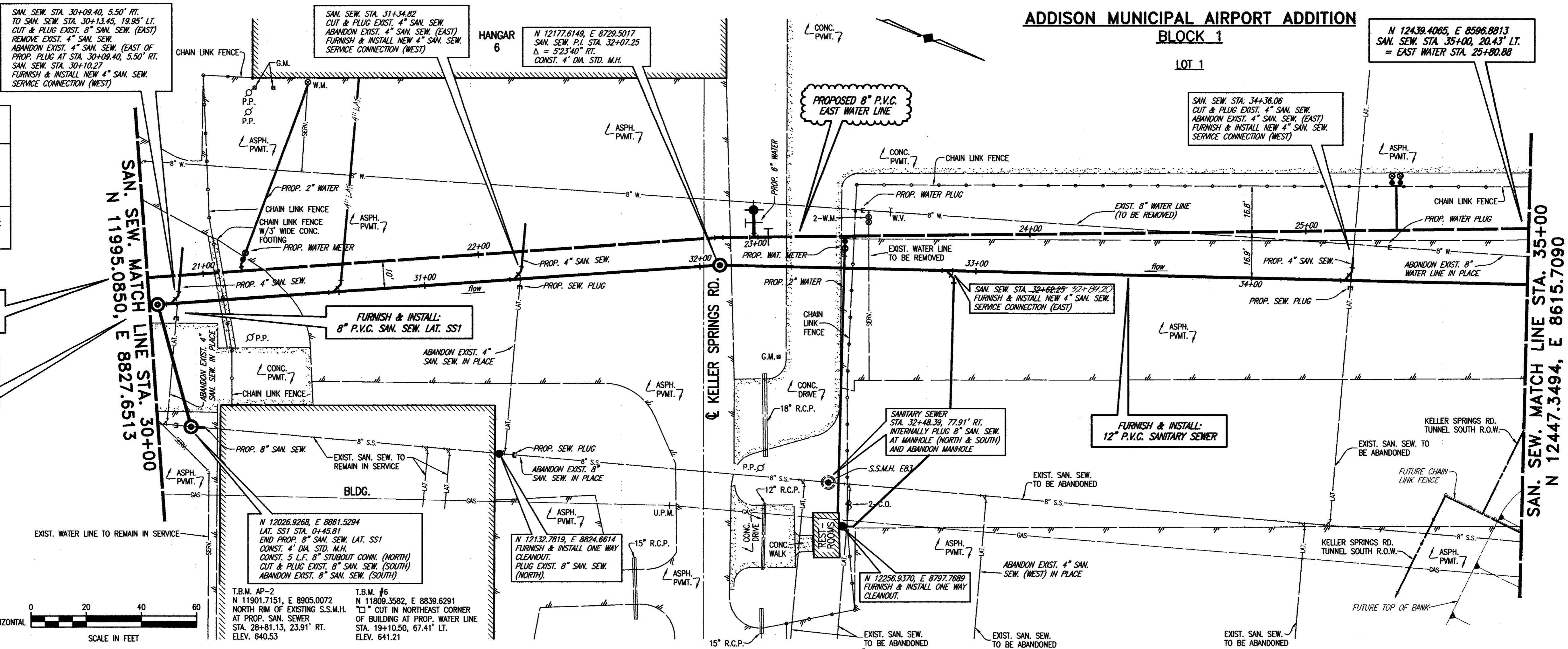
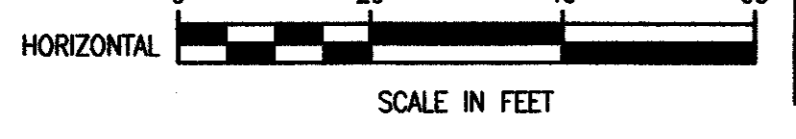
REMOVE EXIST. 4" SAN. SEW. SERVICE AS REQUIRED. FURNISH & INSTALL PROP. 12"x4" WYE, NEW 4" P.V.C. SAN. SEW. PIPE, & CLEANOUT. CONNECT TO EXIST. 4" SAN. SEW. AT EACH SAN. SEW. SERVICE LOCATION.  
\* WITHOUT CLEANOUT

N 11990.3491, E 8818.8439  
SAN. SEW. STA. 30+00, 10.00' LT.  
= EAST WATER STA. 20+79.75

N 11997.7273, E 8826.2305  
SAN. SEW. STA. 30+43  
PROP. LAT. SSI. STA. 0+00  
BEGIN PROP. 8" SAN. SEW. LAT. SSI  
CONST. 4" DIA. STD. M.H.

- HATCHING INDICATES PIPE JOINT CENTERED ON SANITARY SEWER LINE (SEE PROFILE)
- HATCHING INDICATES WATER LINE BY OTHER THAN OPEN CUT (SEE PROFILE)
- HATCHING INDICATES REMOVAL & REPLACING OF ASPHALT PAVEMENT (SEE PROFILE)
- HATCHING INDICATES REMOVAL & REPLACING OF CONCRETE PAVEMENT (SEE PROFILE)

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.



REVISED TO CONFORM TO CONSTRUCTION RECORDS BY J.W.B. DATE 12/01/98

**TOWN OF ADDISON, TEXAS**

ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT

**SANITARY SEWER PLAN - PROFILE**  
STA. 30+00 TO STA. 35+00

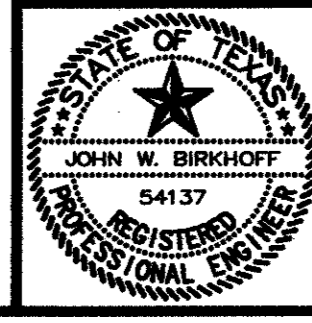
SHIMEK, JACOBS & FINKLEA, L.L.P.  
CONSULTING ENGINEERS  
Dallas, Texas

DESIGNED BY: J.W.B. PROJECT: 96 169 SHEET NO. 8  
DRAWN BY: S.J. & F. DATE: MARCH, 1997 OF 24 SHEETS

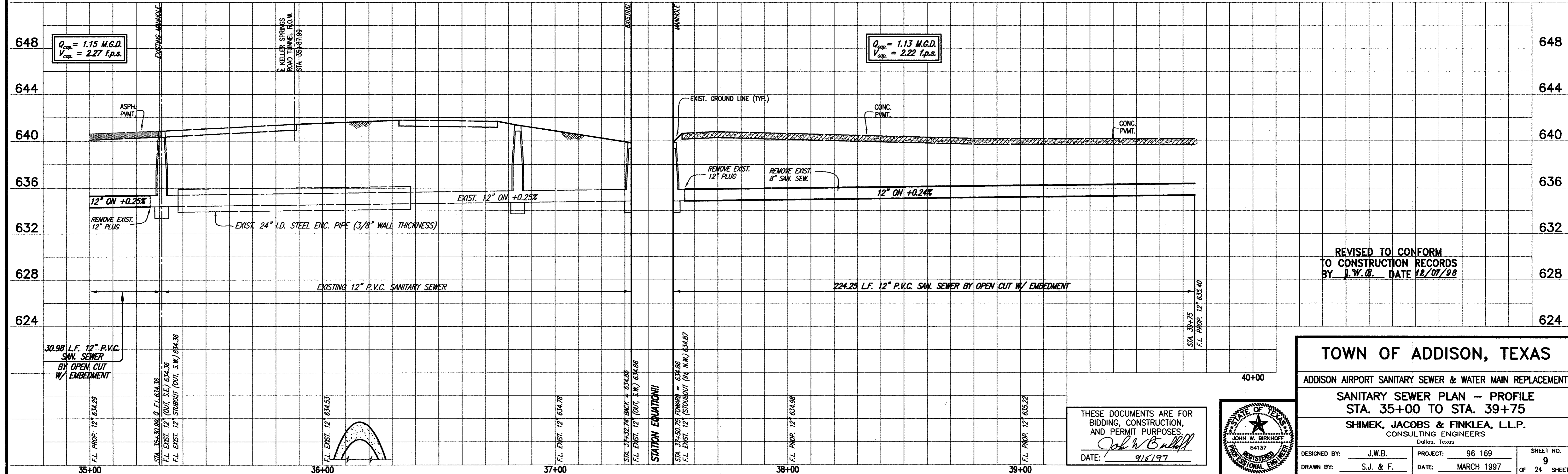
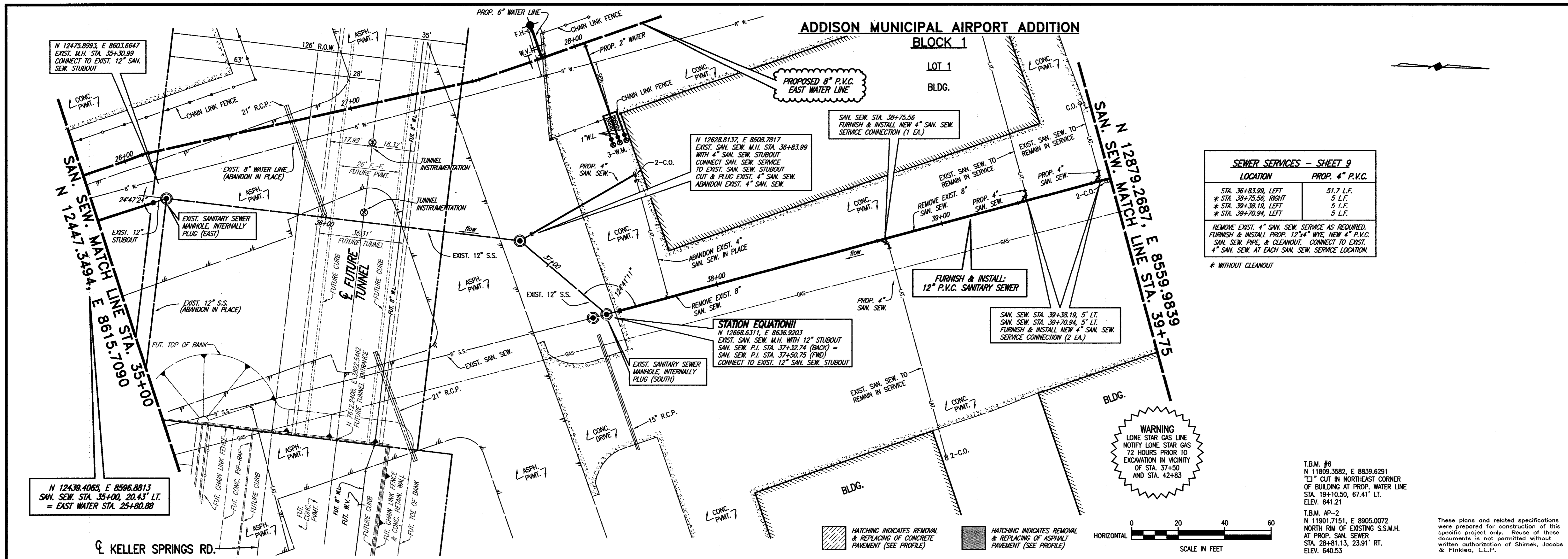
THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.

*John W. Bullifant*

DATE: 9/5/97







**TOWN OF ADDISON, TEXAS**

ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT

**SANITARY SEWER PLAN - PROFILE**  
STA. 35+00 TO STA. 39+75

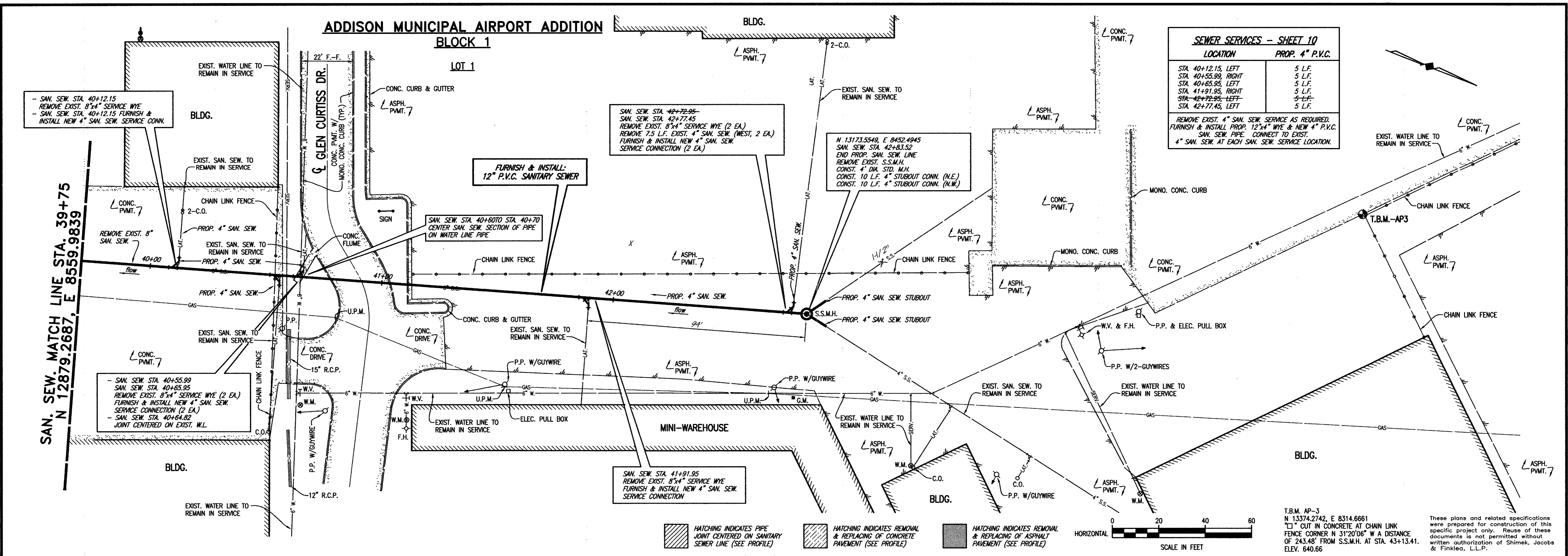
**SHIMEK, JACOBS & FINKLEA, L.L.P.**  
CONSULTING ENGINEERS  
Dallas, Texas

DESIGNED BY: J.W.B. PROJECT: 96 169 SHEET NO. 9  
 DRAWN BY: S.J. & F. DATE: MARCH 1997 OF 24 SHEETS

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.  
*John W. Birkhoff*  
 DATE: 9/5/97

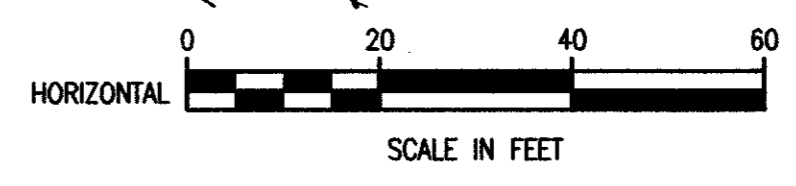


**ADDISON MUNICIPAL AIRPORT ADDITION  
BLOCK 1**



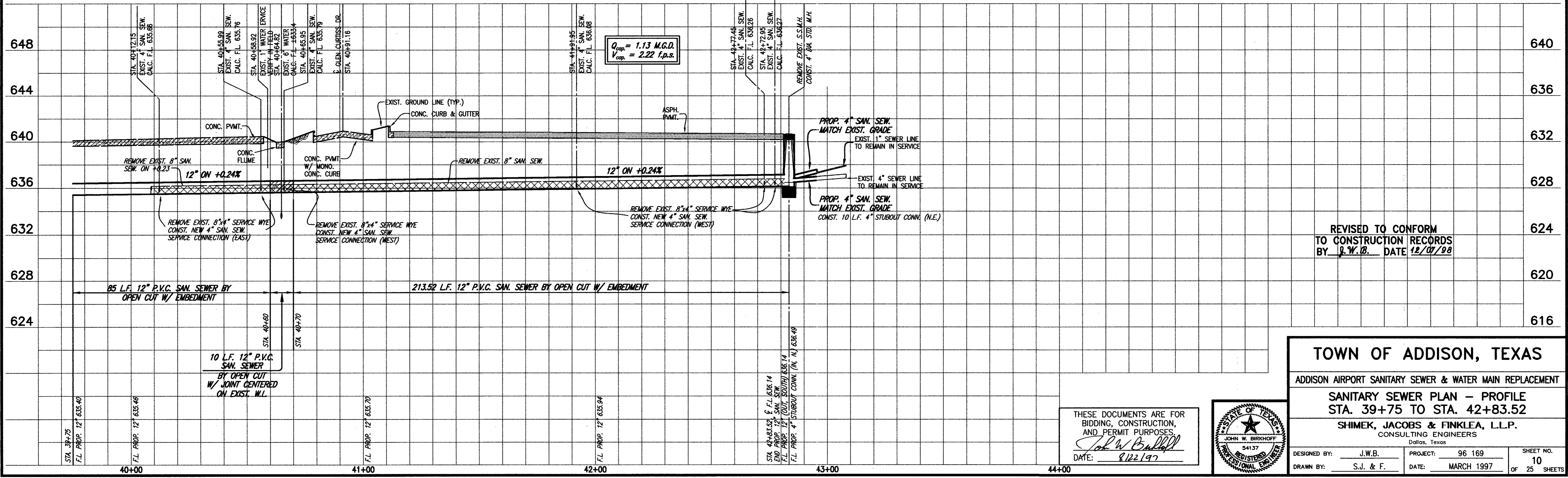
SAN. SEW. MATCH LINE STA. 39+75  
N 12879.2687, E 8559.9839

HATCHING INDICATES PIPE JOINT CENTERED ON SANITARY SEWER LINE (SEE PROFILE)  
HATCHING INDICATES REMOVAL & REPLACING OF CONCRETE PAVEMENT (SEE PROFILE)  
HATCHING INDICATES REMOVAL & REPLACING OF ASPHALT PAVEMENT (SEE PROFILE)

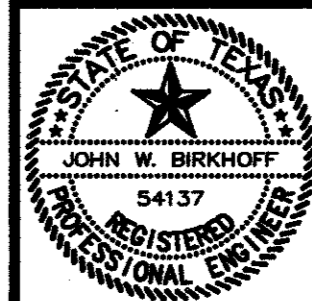


T.B.M. AP-3  
N 13374.2742, E 8314.6661  
"1" CUT IN CONCRETE AT CHAIN LINK FENCE CORNER N 31°20'06" W A DISTANCE OF 243.48' FROM S.S.M.H. AT STA. 43+13.41. ELEV. 640.66

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.



THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.  
DATE: 8/22/97



**TOWN OF ADDISON, TEXAS**

ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT

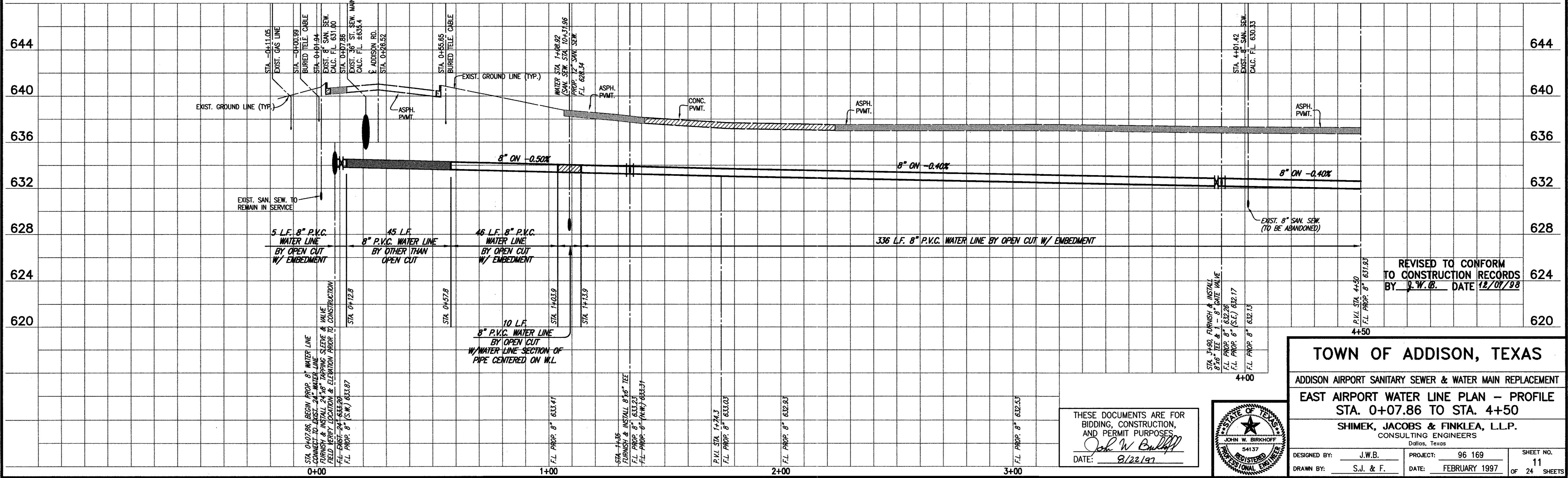
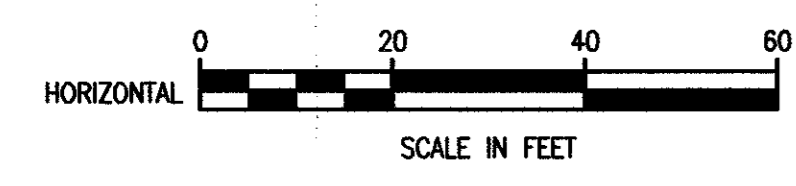
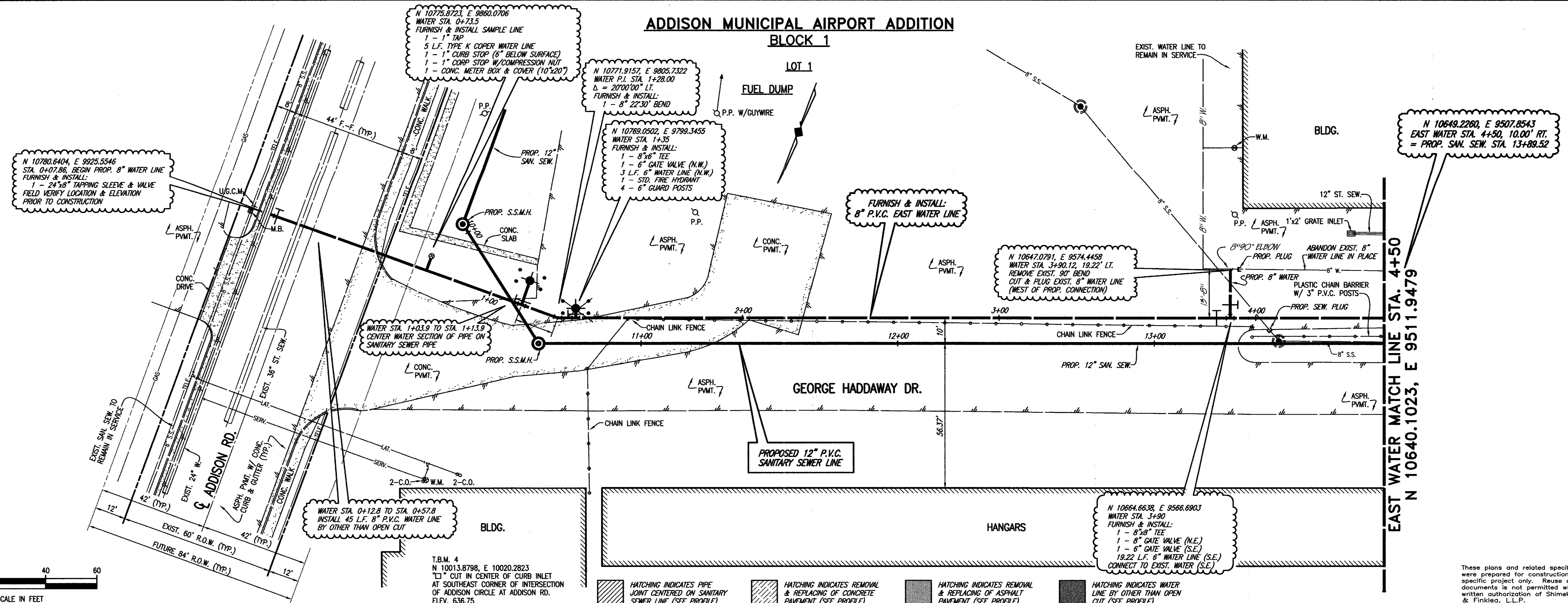
**SANITARY SEWER PLAN - PROFILE**  
STA. 39+75 TO STA. 42+83.52

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

DESIGNED BY: J.W.B. PROJECT: 96 169 SHEET NO. 10  
DRAWN BY: S.J. & F. DATE: MARCH 1997 OF 25 SHEETS



**ADDISON MUNICIPAL AIRPORT ADDITION  
BLOCK 1**



**TOWN OF ADDISON, TEXAS**  
**ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT**  
**EAST AIRPORT WATER LINE PLAN - PROFILE**  
**STA. 0+07.86 TO STA. 4+50**  
**SHIMEK, JACOBS & FINKLEA, L.L.P.**  
**CONSULTING ENGINEERS**  
 Dallas, Texas

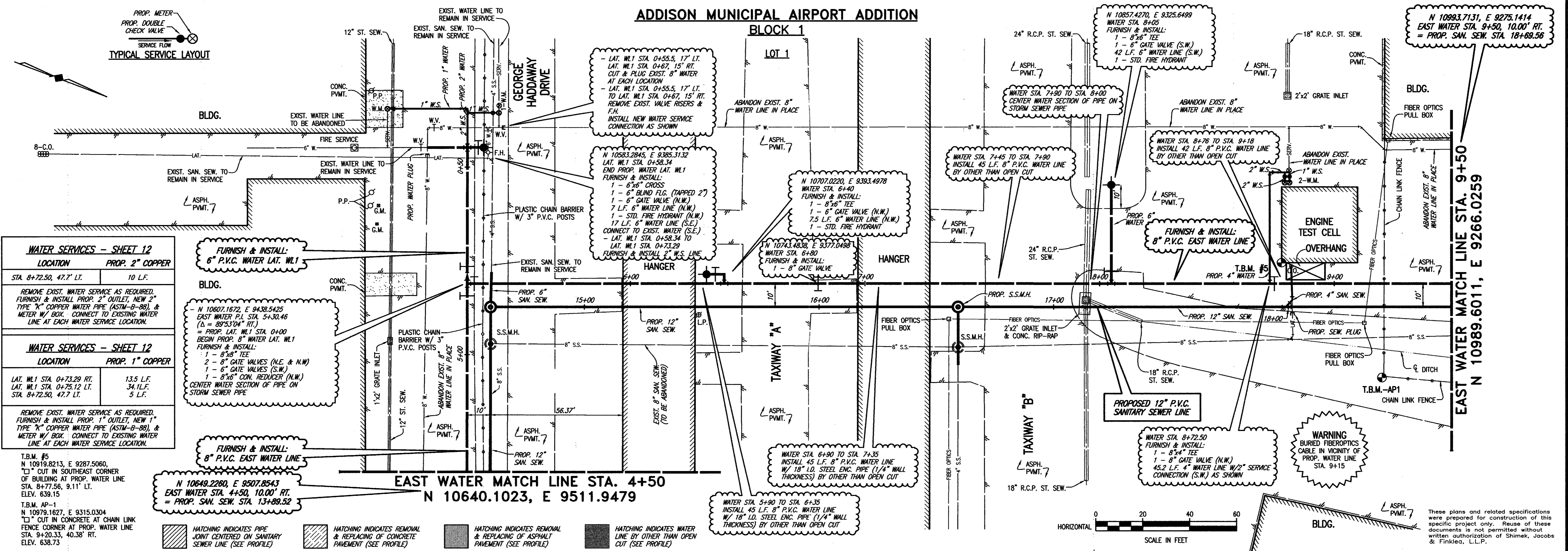
DESIGNED BY: J.W.B. PROJECT: 96 169 SHEET NO. 11  
 DRAWN BY: S.J. & F. DATE: FEBRUARY 1997 OF 24 SHEETS

REGISTERED PROFESSIONAL ENGINEER  
 JOHN W. BIRKHOFF  
 54137



ADDISON MUNICIPAL AIRPORT ADDITION

BLOCK 1



**WATER SERVICES - SHEET 12**

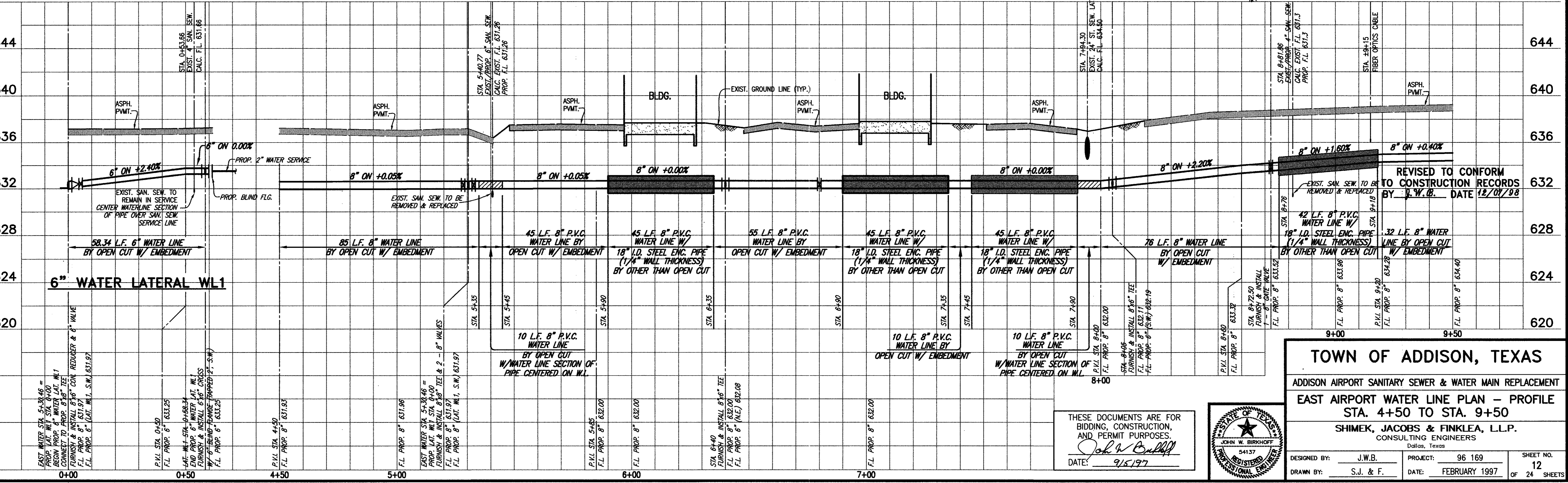
LOCATION	PROP. 2" COPPER
STA. 8+72.50, 47.7' LT.	10 L.F.
REMOVE EXIST. WATER SERVICE AS REQUIRED. FURNISH & INSTALL PROP. 2" OUTLET, NEW 2" TYPE 'K' COPPER WATER PIPE (ASTM-B-88), & METER W/ BOX. CONNECT TO EXISTING WATER LINE AT EACH WATER SERVICE LOCATION.	

**WATER SERVICES - SHEET 12**

LOCATION	PROP. 1" COPPER
LAT. W.L. STA. 0+73.29 RT.	13.5 L.F.
LAT. W.L. STA. 0+75.12 LT.	34 L.F.
STA. 8+72.50, 47.7' LT.	5 L.F.
REMOVE EXIST. WATER SERVICE AS REQUIRED. FURNISH & INSTALL PROP. 1" OUTLET, NEW 1" TYPE 'K' COPPER WATER PIPE (ASTM-B-88), & METER W/ BOX. CONNECT TO EXISTING WATER LINE AT EACH WATER SERVICE LOCATION.	

- HATCHING INDICATES PIPE JOINT CENTERED ON SANITARY SEWER LINE (SEE PROFILE)
- HATCHING INDICATES REMOVAL & REPLACING OF CONCRETE PAVEMENT (SEE PROFILE)
- HATCHING INDICATES REMOVAL & REPLACING OF ASPHALT PAVEMENT (SEE PROFILE)
- HATCHING INDICATES WATER LINE BY OTHER THAN OPEN CUT (SEE PROFILE)



**TOWN OF ADDISON, TEXAS**

ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT

**EAST AIRPORT WATER LINE PLAN - PROFILE**

STA. 4+50 TO STA. 9+50

SHIMEK, JACOBS & FINKLEA, L.L.P.

CONSULTING ENGINEERS

Dallas, Texas

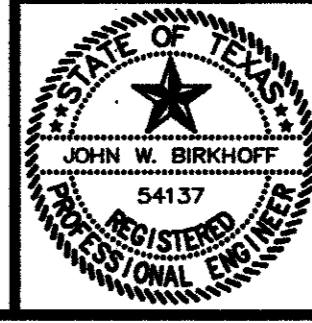
DESIGNED BY: J.W.B. PROJECT: 96 169 SHEET NO. 12

DRAWN BY: S.J. & F. DATE: FEBRUARY 1997 OF 24 SHEETS

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

*John W. Bullard*

DATE: 9/5/97

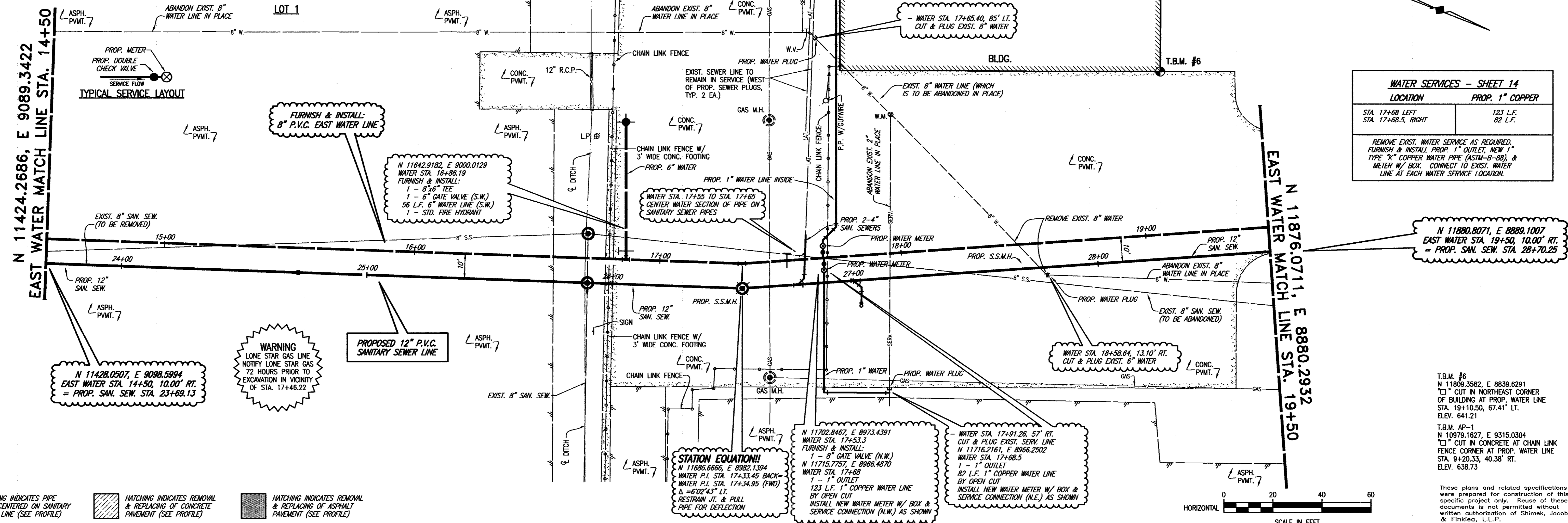








**ADDISON MUNICIPAL AIRPORT ADDITION  
BLOCK 1**



**WATER SERVICES - SHEET 14**

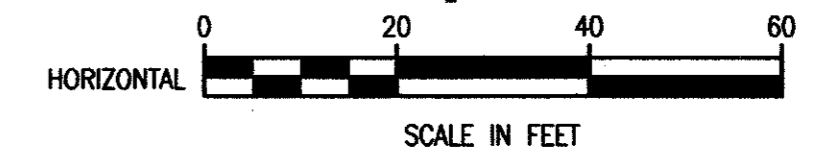
LOCATION	PROP. 1" COPPER
STA. 17+68 LEFT STA. 17+68.5, RIGHT	123 L.F. 82 L.F.

REMOVE EXIST. WATER SERVICE AS REQUIRED.  
FURNISH & INSTALL PROP. 1" OUTLET, NEW 1" TYPE "K" COPPER WATER PIPE (ASTM-B-88) & METER W/ BOX. CONNECT TO EXIST. WATER LINE AT EACH WATER SERVICE LOCATION.

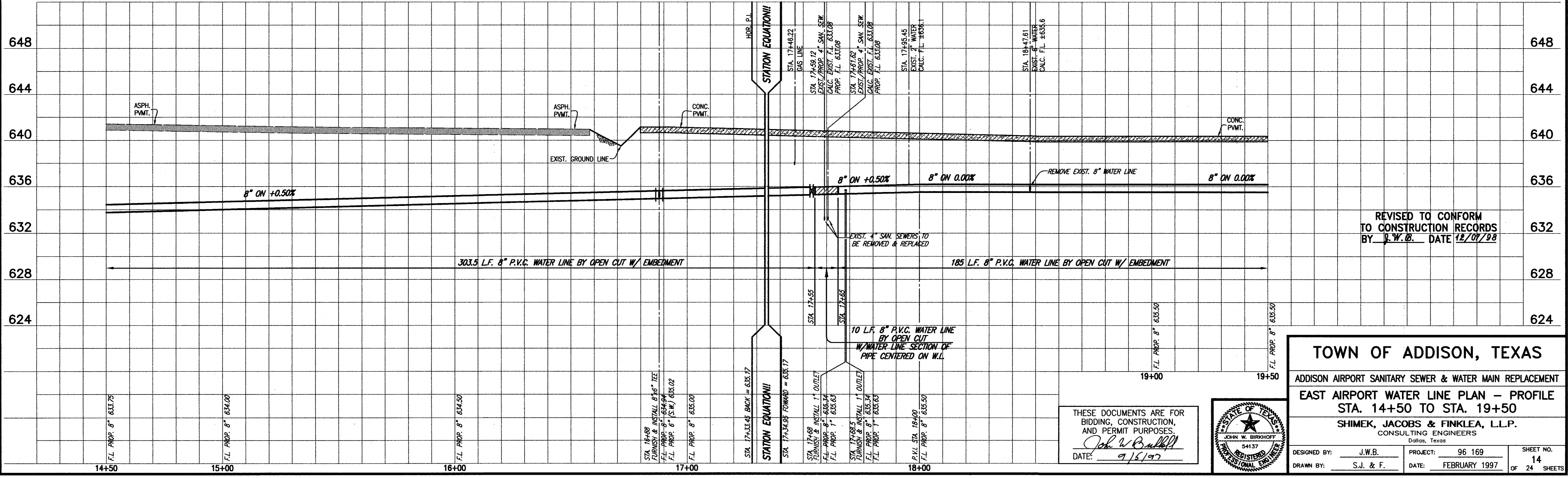
N 11880.8071, E 8880.1007  
EAST WATER STA. 19+50, 10.00' RT.  
= PROP. SAN. SEW. STA. 28+70.25

T.B.M. #6  
N 11809.3582, E 8839.6291  
" " CUT IN NORTHEAST CORNER OF BUILDING AT PROP. WATER LINE STA. 19+10.50, 67.41' LT. ELEV. 641.21  
T.B.M. AP-1  
N 10979.1627, E 9315.0304  
" " CUT IN CONCRETE AT CHAIN LINK FENCE CORNER AT PROP. WATER LINE STA. 9+20.33, 40.38' RT. ELEV. 638.73

HATCHING INDICATES PIPE JOINT CENTERED ON SANITARY SEWER LINE (SEE PROFILE)  
HATCHING INDICATES REMOVAL & REPLACING OF CONCRETE PAVEMENT (SEE PROFILE)  
HATCHING INDICATES REMOVAL & REPLACING OF ASPHALT PAVEMENT (SEE PROFILE)



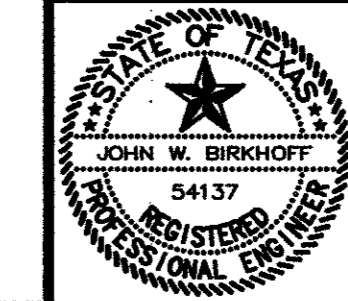
These plans and related specifications were prepared for construction of this specific project only. Reuse of these documents is not permitted without written authorization of Shimek, Jacobs & Finklea, L.L.P.



REVISED TO CONFORM TO CONSTRUCTION RECORDS BY J.W.B. DATE 12/07/98

**TOWN OF ADDISON, TEXAS**  
ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT  
EAST AIRPORT WATER LINE PLAN - PROFILE  
STA. 14+50 TO STA. 19+50  
SHIMEK, JACOBS & FINKLEA, L.L.P.  
CONSULTING ENGINEERS  
Dallas, Texas

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.  
DATE: 9/15/97



DESIGNED BY: J.W.B. PROJECT: 96 169 SHEET NO. 14  
DRAWN BY: S.J. & F. DATE: FEBRUARY 1997 OF 24 SHEETS

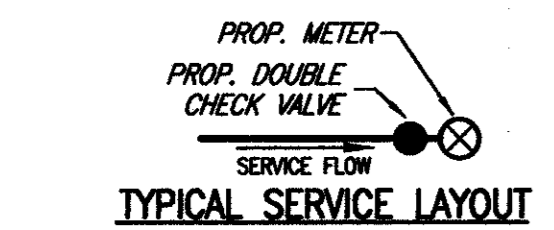


**ADDISON MUNICIPAL AIRPORT ADDITION  
BLOCK 1**

**WATER SERVICES - SHEET 15**

LOCATION	PROP. 1" COPPER
STA. 20+53, RIGHT (NO METER OR CHECK VALVE REQUIRED)	21 L.F.
STA. 21+14, LEFT	70 L.F.
STA. 23+33, RIGHT	100 L.F.

REMOVE EXIST. WATER SERVICE AS REQUIRED. FURNISH & INSTALL PROP. 1" OUTLET, NEW 1" TYPE "X" COPPER WATER PIPE (ASTM-B-88), & METER W/ BOX. CONNECT TO EXIST. WATER



WATER STA. 20+17.84, 12' RT. TO WATER STA. 20+54.79, 20' LT. CUT & PLUG EXIST. 8" WATER AT EACH LOCATION

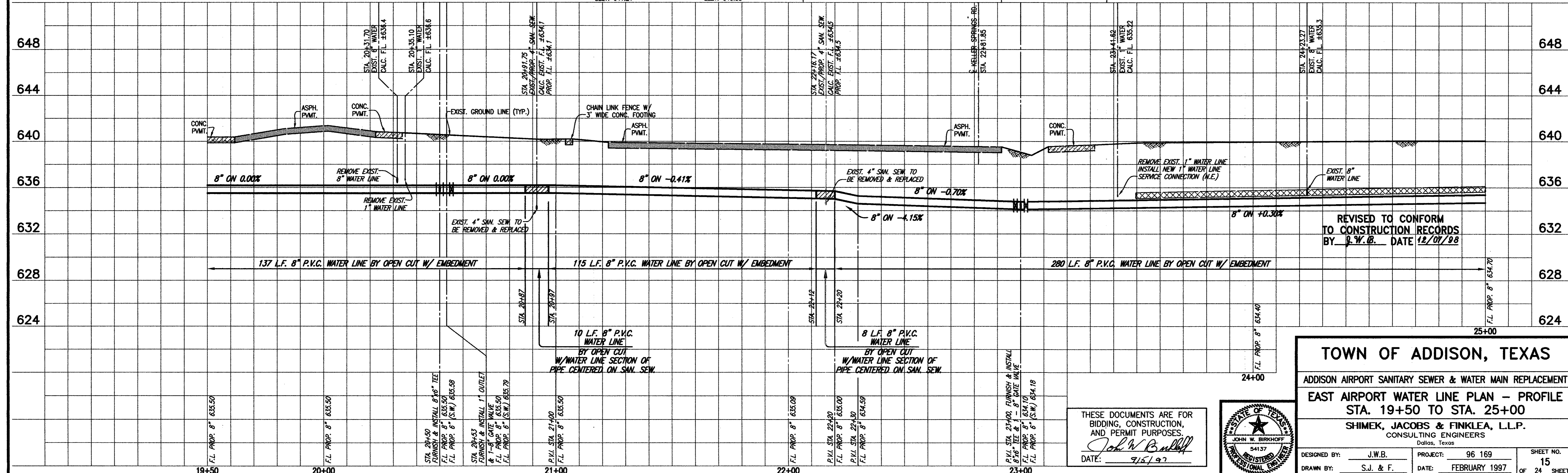
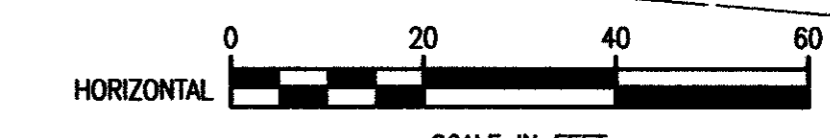
WATER STA. 20+17.84, 12' RT. TO WATER STA. 20+54.79, 20' LT. REMOVE EXIST. WATER VALVE (1 EA.), F.H. & EXIST. 6" WATER LINES & ±19.5 L.F. EXIST. 2" WATER (N.E.)

EAST WATER MATCH LINE STA. 19+50  
N 11876.0711, E 8880.2932

EAST WATER MATCH LINE STA. 25+00  
N 12366.0537, E 8630.9515

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.

- HATCHING INDICATES PIPE JOINT CENTERED ON SANITARY SEWER LINE (SEE PROFILE)
- HATCHING INDICATES REMOVAL & REPLACING OF CONCRETE PAVEMENT (SEE PROFILE)
- HATCHING INDICATES REMOVAL & REPLACING OF ASPHALT PAVEMENT (SEE PROFILE)



**TOWN OF ADDISON, TEXAS**

ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT

**EAST AIRPORT WATER LINE PLAN - PROFILE**  
STA. 19+50 TO STA. 25+00

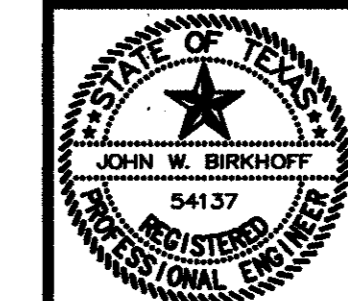
SHIMEK, JACOBS & FINKLEA, L.L.P.  
CONSULTING ENGINEERS  
Dallas, Texas

DESIGNED BY: J.W.B. PROJECT: 96 169 SHEET NO. 15  
DRAWN BY: S.J. & F. DATE: FEBRUARY 1997 OF 24 SHEETS

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

*John W. Burdick*

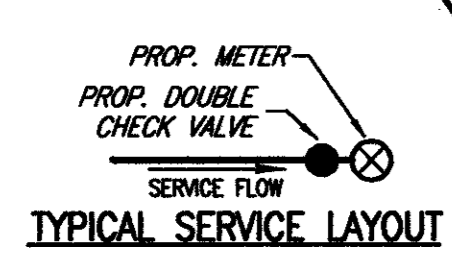
DATE: 2/5/97





**ADDISON MUNICIPAL AIRPORT ADDITION  
BLOCK 1**

N 12373.4536, E 8646.8834  
EAST WATER STA. 25+00, 17.57' RT.  
= PROP. SAN. SEW. STA. 34+19.80

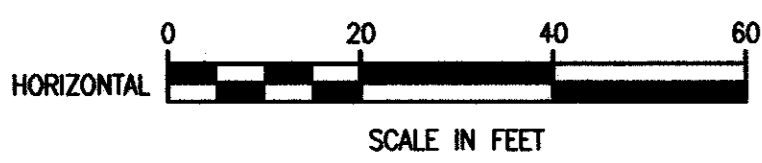


**STATION EQUATION!!**  
- N 12465.2326, E 8594.8859  
- WATER P.I. STA. 26+09.35 BACK =  
- WATER P.I. STA. 26+09.49 (FWD)  
Δ = 722.39' RT.  
FURNISH & INSTALL:  
1 - 8" 11 1/4" BEND  
RESTRAIN J.T. & PULL PIPE FOR DEFLECTION  
- WATER STA. 26+09.49 TO STA. 27+55  
145.51 L.F. 8" P.V.C. WATER LINE W/  
18" I.D. STEEL ENC. PIPE BY OPEN CUT

FURNISH & INSTALL:  
8" P.V.C. EAST WATER LINE

WATER STA. 27+82.60, 2.5' RT.  
CUT & PLUG EXIST. 6" WATER LINE  
WATER STA. 27+82.00, 2.5' RT.  
TO WATER STA. 27+83.62, 12.98' LT.  
REMOVE EXIST. WATER VALVE RISER (1 EA.)  
F.H. & EXIST. 6" WATER LINE (S.W.)  
- N 12631.3343, E 8528.7056  
- WATER STA. 27+85  
FURNISH & INSTALL:  
1 - 8" Tee  
1 - 8" GATE VALVE (S.E.)  
1 - 6" GATE VALVE (S.W.)  
15 L.F. 6" WATER LINE (S.W.)  
1 - STD. FIRE HYDRANT

- HATCHING INDICATES PIPE JOINT CENTERED ON SANITARY SEWER LINE (SEE PROFILE)
- HATCHING INDICATES REMOVAL & REPLACING OF ASPHALT PAVEMENT (SEE PROFILE)
- HATCHING INDICATES REMOVAL & REPLACING OF CONCRETE PAVEMENT (SEE PROFILE)



N 12366.0537, E 8630.9515  
EAST WATER MATCH LINE STA. 25+00

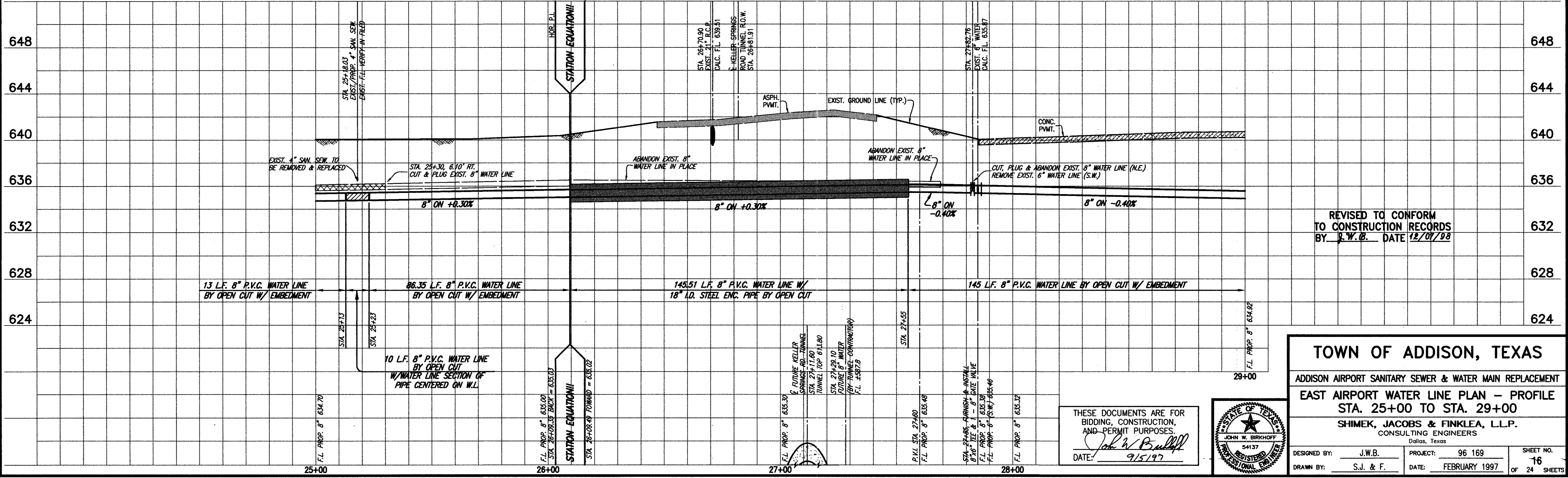
EAST WATER MATCH LINE STA. 29+00  
N 12736.1591, E 8481.4177

WATER SERVICES - SHEET 16	
LOCATION	PROP. 1" COPPER
STA. 25+33, 16.21' LT.	3 L.F.
STA. 25+33, 16.21' LT.	3 L.F.
STA. 28+07.42, 32.65' RT.	13.3 L.F.
STA. 28+04.42, 32.65' RT.	13.3 L.F.
STA. 28+07.42, 32.65' RT.	13.3 L.F.

REMOVE EXIST. WATER SERVICE AS REQUIRED. FURNISH & INSTALL PROP. 1" OUTLET, NEW 1" TYPE "K" COPPER WATER PIPE (ASTM-B-88), & METER W/ BOX. CONNECT TO EXIST. WATER LINE AT EACH WATER SERVICE LOCATION.

T.B.M. #6  
N 11809.3582, E 8839.6291  
"C" CUT IN NORTHEAST CORNER OF BUILDING AT PROP. WATER LINE STA. 19+10.50, 67.41' LT. ELEV. 641.21  
T.B.M. AP-2  
N 11901.7151, E 8905.0072  
NORTH RIM OF EXISTING S.S.M.H. AT PROP. WATER LINE STA. 19+60.88, 33.91' RT. ELEV. 640.53

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.





**ADDISON MUNICIPAL AIRPORT ADDITION  
BLOCK 1**

LOT 1  
BLDG.

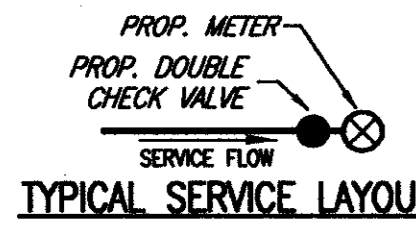
WATER STA. 29+81.80, 2.50' RT.  
CUT & PLUG EXIST. 6" WATER LINE  
TO WATER STA. 29+81.80, 2.50' RT.  
REMOVE EXIST. 6" WATER LINE  
- N 12811.8173, E 8447.2881  
WATER STA. 29+83  
FURNISH & INSTALL:  
1 - 8" GATE VALVE (N.W.)  
16.44 L.F. 6" WATER LINE (S.E.)  
- N 12805.0577, E 8432.3034  
WATER STA. 29+83, 16.44' LT.  
CONNECT PROP. 6" WATER LINE  
TO EXIST. 6" WATER VALVE

N 12914.8220, E 8400.8226  
WATER P.I. STA. 30+96  
Δ = 90°00'00" RT.  
FURNISH & INSTALL:  
1 - 8" 90° BEND

N 12927.0039, E 8427.9082  
STA. 31+25.75, END PROP. 8" WATER LINE  
FURNISH & INSTALL:  
1 - 8"x8" TEE  
1 - 8"x6" REDUCER  
REMOVE EXIST. 6"x6" TEE  
CONNECT PROP. TEE TO EXIST.  
6" WATER LINES (N.E. & N.W.)  
CUT & PLUG EXIST. 6" WATER (S.E.)

WATER STA. 30+23.68  
CUT & PLUG & REMOVE  
EXIST. 6" WATER LINE (2 EA.)  
INSTALL NEW WATER SERVICE  
CONNECTION (N.E.) AS SHOWN

PROPOSED 12" P.V.C.  
SANITARY SEWER LINE  
(SEE SHEET 10)

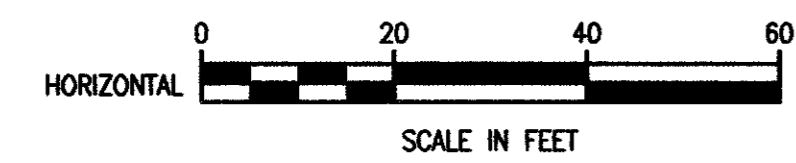


T.B.M. #6  
N 11809.3582, E 8839.6291  
" " CUT IN NORTHEAST CORNER  
OF BUILDING AT PROP. WATER LINE  
STA. 19+10.50, 67.41' LT.  
ELEV. 641.21  
T.B.M. AP-2  
N 11901.7151, E 8905.0072  
NORTH RM. OF EXISTING S.S.M.H.  
AT PROP. WATER LINE  
STA. 19+60.88, 33.91' RT.  
ELEV. 640.53

- HATCHING INDICATES PIPE JOINT CENTERED ON SANITARY SEWER LINE (SEE PROFILE)
- HATCHING INDICATES REMOVAL & REPLACING OF ASPHALT PAVEMENT (SEE PROFILE)
- HATCHING INDICATES REMOVAL & REPLACING OF CONCRETE PAVEMENT (SEE PROFILE)

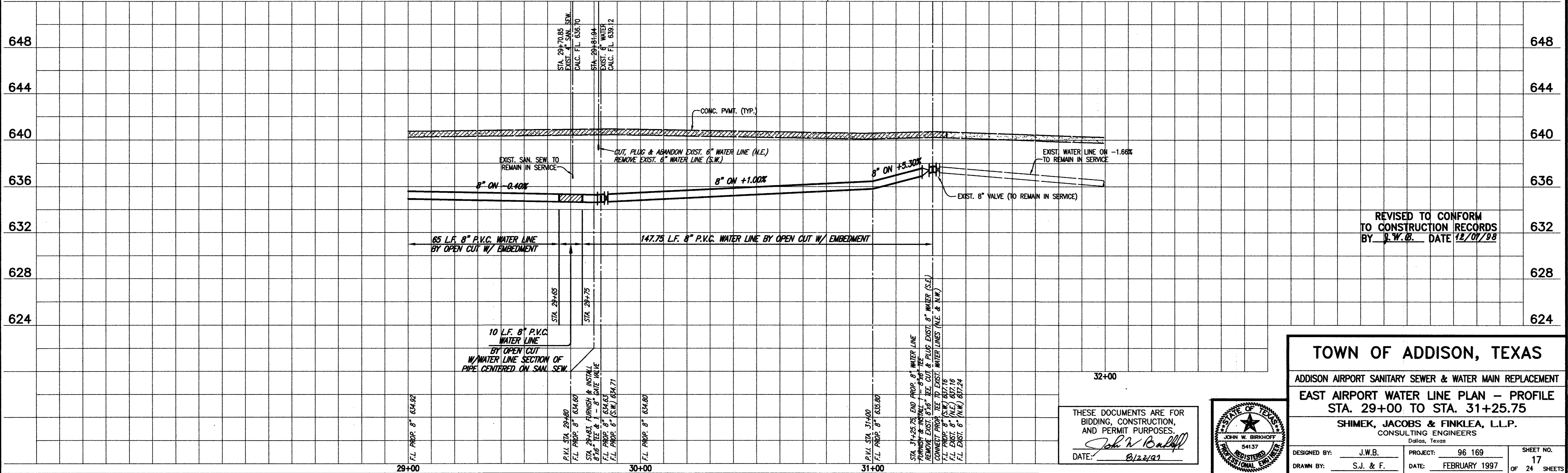
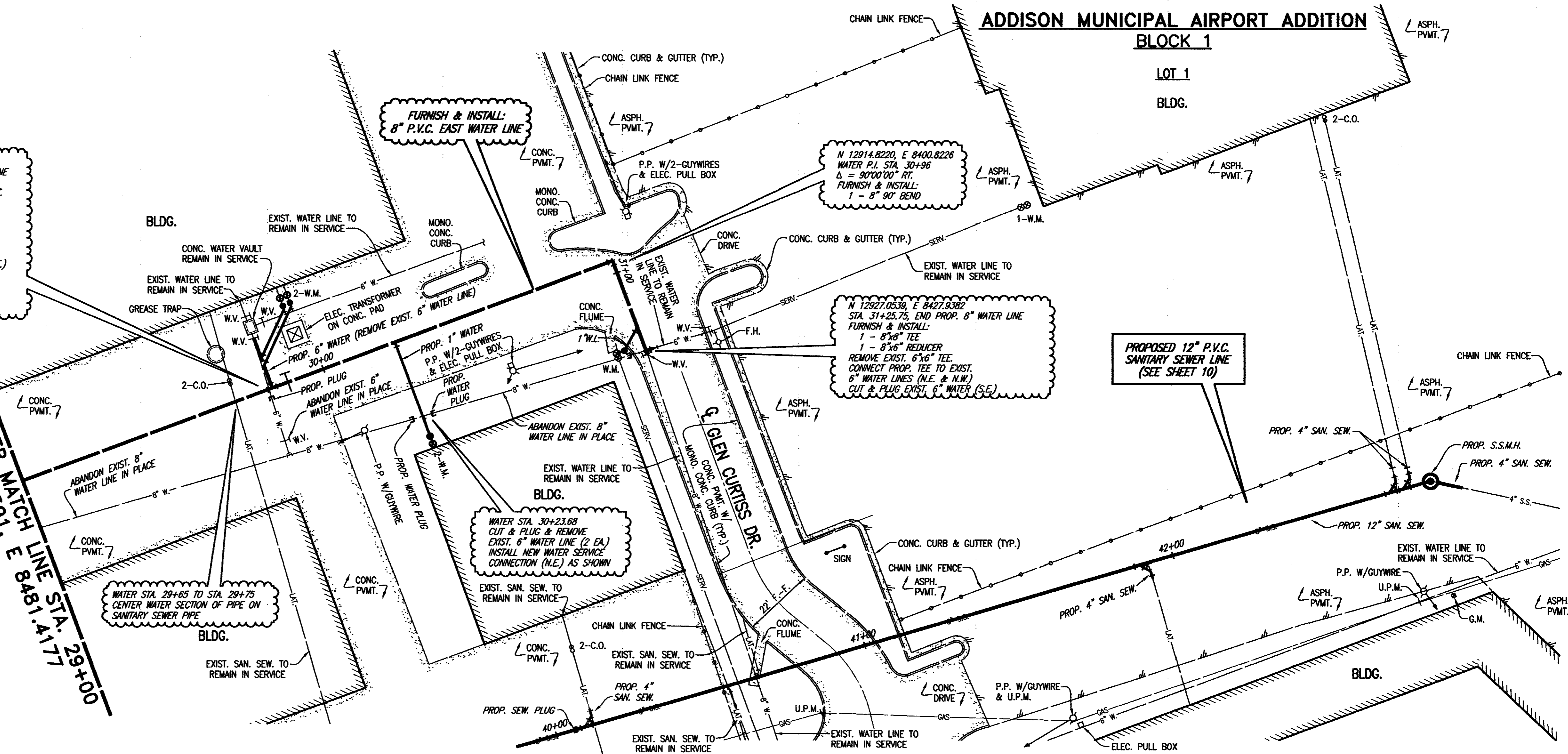
WATER SERVICES - SHEET 17	
LOCATION	PROP. 1" COPPER
STA. 29+95.04, LEFT	17 L.F.
STA. 29+97.43, LEFT	21 L.F.
STA. 30+23.68, RIGHT	34 L.F.
STA. 31+23.36, RIGHT	-19 L.F.

REMOVE EXIST. WATER SERVICE AS REQUIRED. FURNISH & INSTALL PROP. 1" OUTLET, NEW 1" TYPE "K" COPPER WATER PIPE (ASTM-B-88) & METER W/ BOX. CONNECT TO EXIST. WATER LINE AT EACH WATER SERVICE LOCATION.



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.

EAST WATER MATCH LINE STA. 1736.1591, E 8481.1717  
STA. 29+00

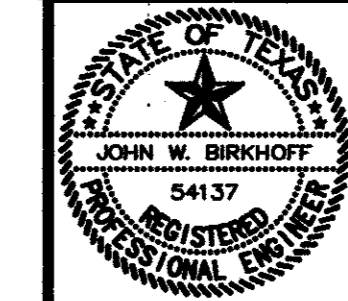


REVISED TO CONFORM TO CONSTRUCTION RECORDS BY J.W.B. DATE 12/07/98

**TOWN OF ADDISON, TEXAS**  
ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT  
EAST AIRPORT WATER LINE PLAN - PROFILE  
STA. 29+00 TO STA. 31+25.75  
SHIMEK, JACOBS & FINKLEA, L.L.P.  
CONSULTING ENGINEERS  
Dallas, Texas

DESIGNED BY: J.W.B. PROJECT: 96 169 SHEET NO. 17  
DRAWN BY: S.J. & F. DATE: FEBRUARY 1997 OF 24 SHEETS

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.  
John W. Balluff  
DATE: 2/24/97









ADDISON MUNICIPAL AIRPORT ADDITION  
BLOCK 1

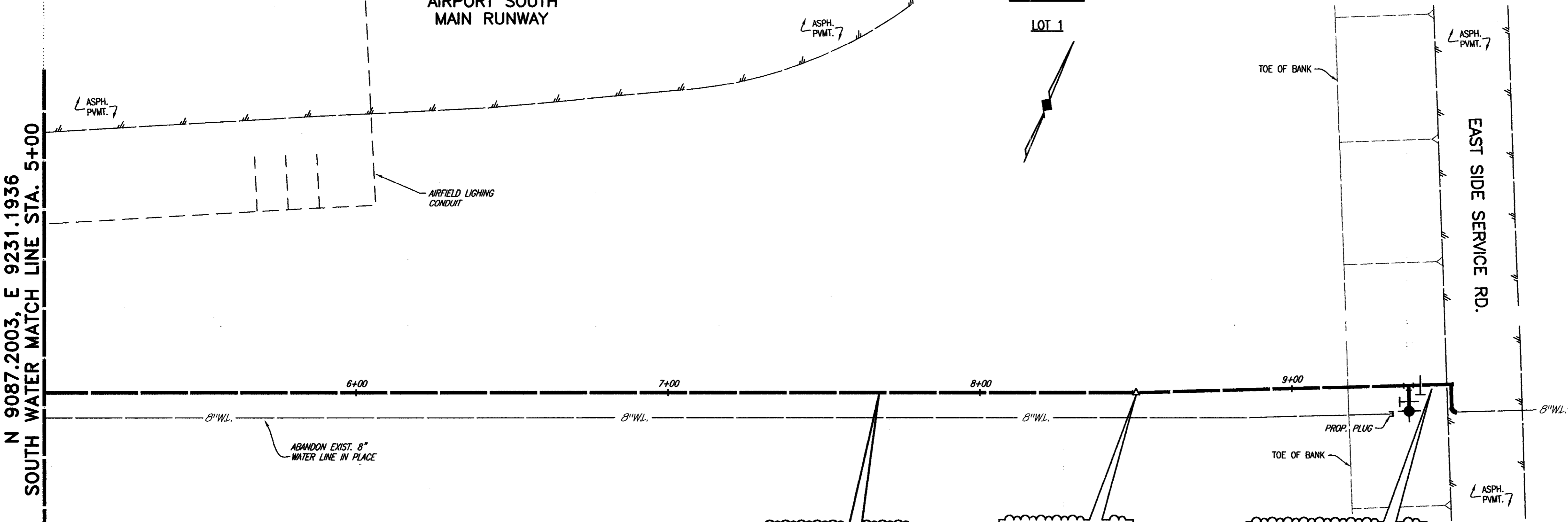
N 9087.2003, E 9231.1936  
SOUTH WATER MATCH LINE STA. 5+00

SOUTH WATER MATCH LINE STA. 10+00  
N 9280.6311, E 9692.2194

AIRPORT SOUTH  
MAIN RUNWAY

LOT 1

EAST SIDE SERVICE RD.



FURNISH & INSTALL:  
8" P.V.C. SOUTH WATER LINE

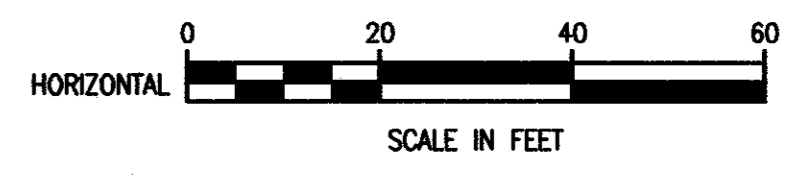
N 9219.9445, E 9555.0439  
WATER P.I. STA. 8+50  
Δ = 1'34"34" LT.  
RESTRAIN JT. & PULL  
PIPE FOR DEFLECTION

- WATER STA. 9+42, 9.81' LT.  
WATER STA. 9+48, 9.81' LT.  
CUT & PLUG EXIST. 8" WATER  
AT EACH LOCATION  
- WATER STA. 9+42, 9.81' LT.  
TO WATER STA. 9+48, 9.81' LT.  
REMOVE 6 L.F. EXIST. 8" WATER LINE  
N 9258.3753, E 9641.9217  
WATER STA. 9+45  
FURNISH & INSTALL:  
1 - 8" GATE VALVE (S.E.)  
1 - 8" GATE VALVE (N.W.)  
20 L.F. 6" WATER LINE (N.W.)  
1 - STD. FIRE HYDRANT

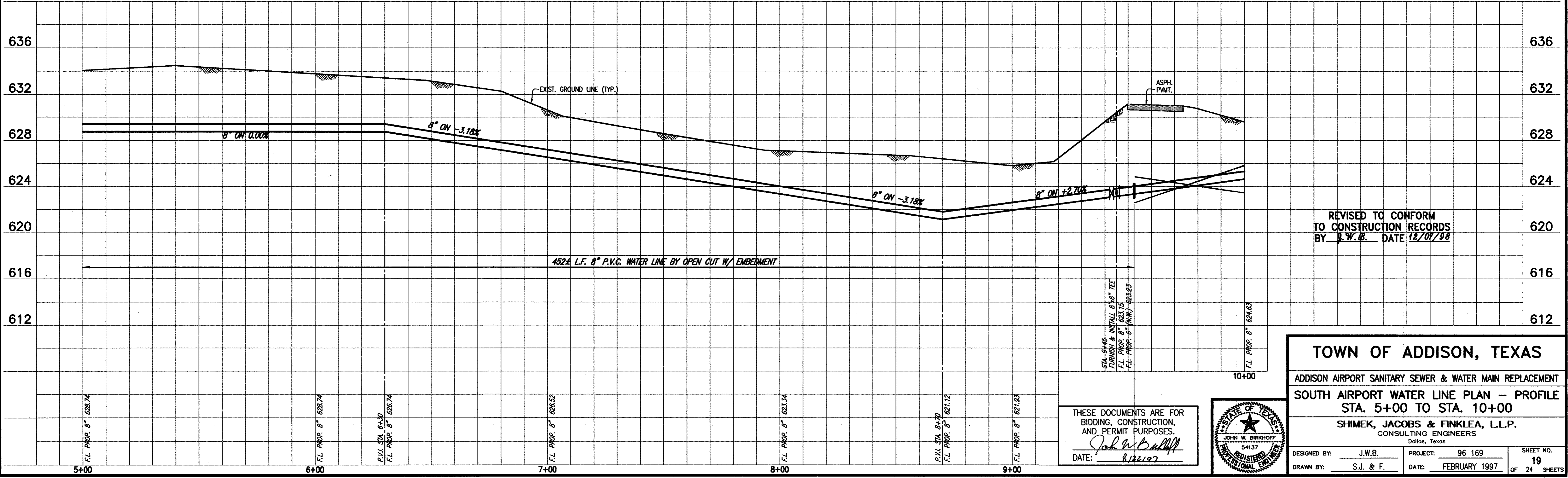
T.B.M. 4  
N 10013.8798, E 10020.2823  
" " CUT IN CENTER OF CURB INLET  
AT SOUTHEAST CORNER OF INTERSECTION  
OF ADDISON RD.  
ELEV. 636.75

HATCHING INDICATES REMOVAL  
& REPLACING OF CONCRETE  
PAVEMENT (SEE PROFILE)

HATCHING INDICATES REMOVAL  
& REPLACING OF ASPHALT  
PAVEMENT (SEE PROFILE)



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.



REVISED TO CONFORM  
TO CONSTRUCTION RECORDS  
BY J.W.B. DATE 12/07/98

452± L.F. 8" P.V.C. WATER LINE BY OPEN CUT W/ EMBEDMENT

STA. 9+45  
FURNISH & INSTALL 8" TEE  
F.L. PROP. 8" 623.75  
F.L. PROP. 8" (N.W.) 623.23

F.L. PROP. 8" 624.63

F.L. PROP. 8" 626.74

F.L. PROP. 8" 626.74

P.V.L. STA. 6+30  
F.L. PROP. 8" 626.74

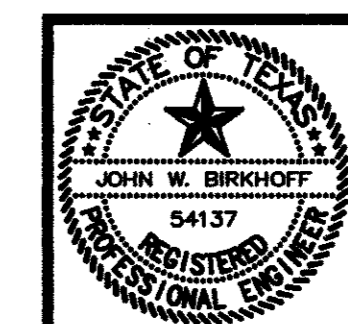
F.L. PROP. 8" 626.52

F.L. PROP. 8" 623.34

P.V.L. STA. 8+70  
F.L. PROP. 8" 621.12

F.L. PROP. 8" 621.93

THESE DOCUMENTS ARE FOR  
BIDDING, CONSTRUCTION,  
AND PERMIT PURPOSES.  
*John W. Bullif*  
DATE: 8/22/97



**TOWN OF ADDISON, TEXAS**

ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT

**SOUTH AIRPORT WATER 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: 96 169 SHEET NO. 19  
DRAWN BY: S.J. & F. DATE: FEBRUARY 1997 OF 24 SHEETS



**ADDISON MUNICIPAL AIRPORT ADDITION**

**BLOCK 1**

SOUTH WATER MATCH LINE STA. 10+00  
N 9280.6311, E 9692.2194

LOT 1

TAXIWAY

BLDG.

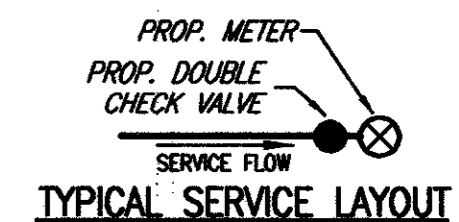
TAXIWAY

WATER STA. 12+93.09, 5.10' LT. TO WATER STA. 12+99.01, 5.10' LT. CUT & PLUG (2 EA.) & REMOVE 6 L.F. EXIST. 8" WATER LINE  
WATER STA. 12+95.02 & STA. 12+97.08 INSTALL NEW WATER SERVICE CONNECTIONS (2 EA., SOUTH) AS SHOWN

WATER STA. 13+01.5 TO STA. 13+36.5 INSTALL 35 L.F. 8" P.V.C. WATER LINE BY OTHER THAN OPEN CUT

N 9342.8798, E 10024.9848 STA. 13+41.57, END PROP. 8" WATER LINE FURNISH & INSTALL: 1 - 24" TAPPING SLEEVE & VALVE FIELD VERIFY LOCATION & ELEVATION PRIOR TO CONSTRUCTION

FURNISH & INSTALL: 8" P.V.C. SOUTH WATER LINE



WATER SERVICES - SHEET 20	
LOCATION	PROP. 2" COPPER
STA. 10+85, RIGHT	-15 L.F.-

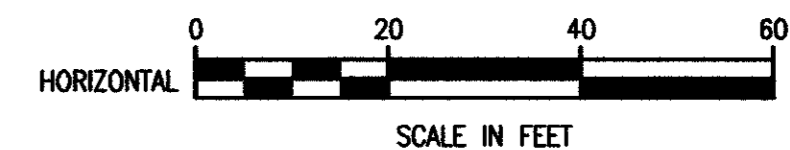
REMOVE EXIST. WATER SERVICE AS REQUIRED, FURNISH & INSTALL PROP. 2" OUTLET, NEW 2" TYPE "K" COPPER WATER PIPE (ASTM-B-88), & METER W/ BOX, CONNECT TO EXIST. WATER LINE AT EACH WATER SERVICE LOCATION.

WATER SERVICES - SHEET 20	
LOCATION	PROP. 1" COPPER
STA. 12+85.02, RIGHT	-7.9 L.F.-
STA. 12+97.08, RIGHT	-7.9 L.F.-

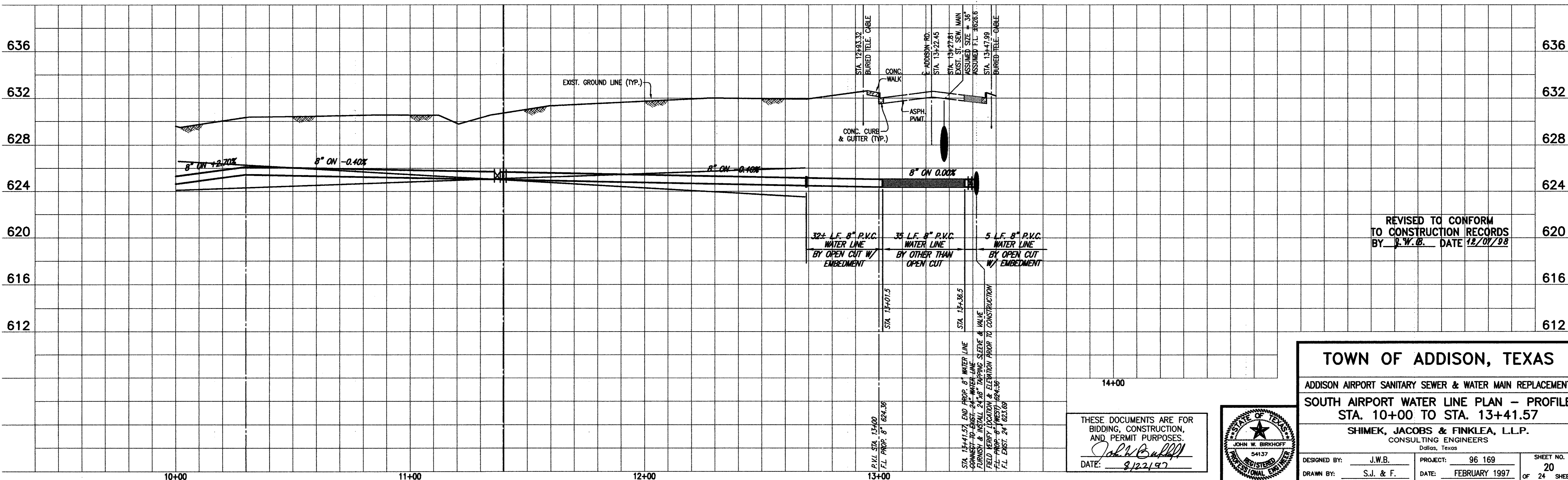
REMOVE EXIST. WATER SERVICE AS REQUIRED, FURNISH & INSTALL PROP. 1" OUTLET, NEW 1" TYPE "K" COPPER WATER PIPE (ASTM-B-88), & METER W/ BOX, CONNECT TO EXIST. WATER LINE AT EACH WATER SERVICE LOCATION.

- HATCHING INDICATES WATER LINE BY OTHER THAN OPEN CUT (SEE PROFILE)
- HATCHING INDICATES REMOVAL & REPLACING OF ASPHALT PAVEMENT (SEE PROFILE)
- HATCHING INDICATES REMOVAL & REPLACING OF CONCRETE PAVEMENT (SEE PROFILE)

T.B.M. 4  
N 10013.8798, E 10020.2823  
"I" CUT IN CENTER OF CURB INLET AT SOUTHEAST CORNER OF INTERSECTION OF ADDISON CIRCLE AT ADDISON RD.  
ELEV. 636.75



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.

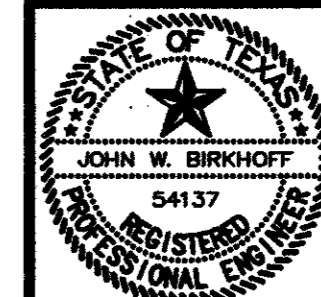


REVISED TO CONFORM TO CONSTRUCTION RECORDS BY J.W.B. DATE 12/07/98

**TOWN OF ADDISON, TEXAS**

ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT  
SOUTH AIRPORT WATER LINE PLAN - PROFILE  
STA. 10+00 TO STA. 13+41.57

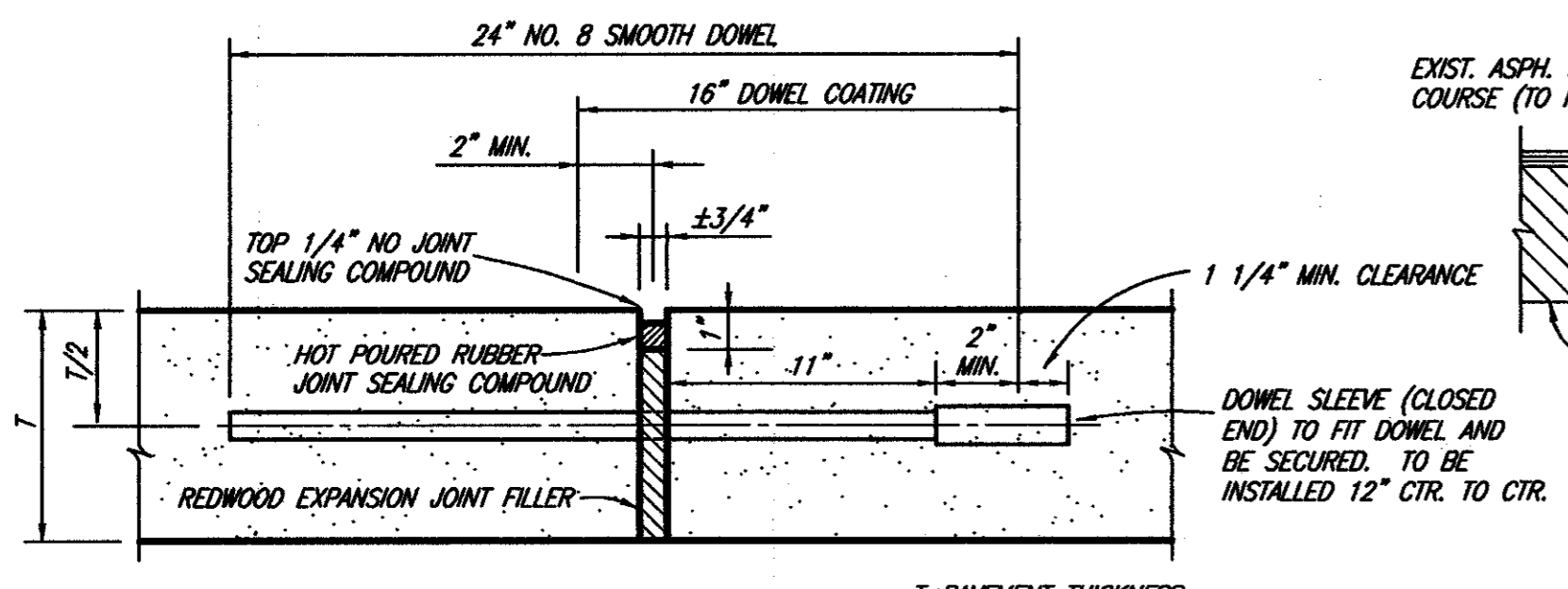
SHIMEK, JACOBS & FINKLEA, L.L.P.  
CONSULTING ENGINEERS  
Dallas, Texas



THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.  
DATE: 2/22/97

DESIGNED BY: J.W.B. PROJECT: 96 169 SHEET NO. 20  
DRAWN BY: S.J. & F. DATE: FEBRUARY 1997 OF 24 SHEETS

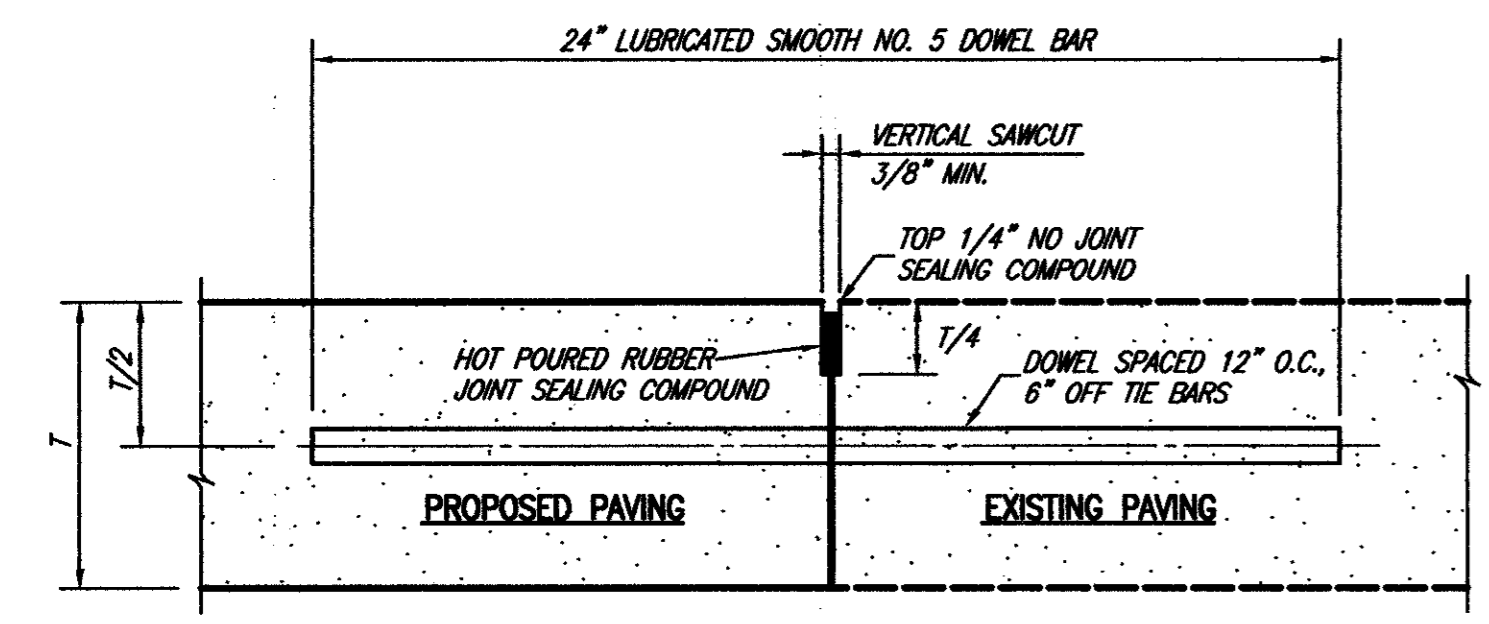




**TRANSVERSE EXPANSION JOINT NOTES:**

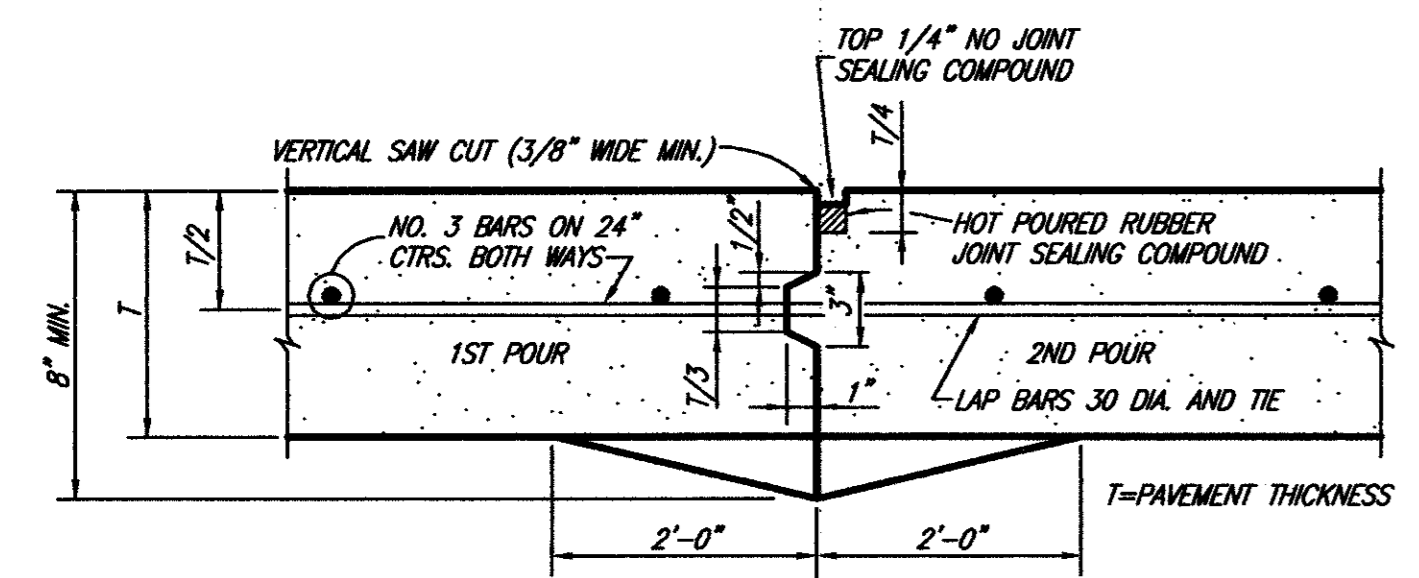
1. DOWELS AND REINFORCING BARS SHALL BE SUPPORTED BY AN APPROVED DEVICE.
2. TRANSVERSE EXPANSION JOINTS SHALL BE SPACED AT 400 FT. MAXIMUM AND AT ALL INTERSECTIONS.

**TRANSVERSE EXPANSION JOINT**  
NO SCALE



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

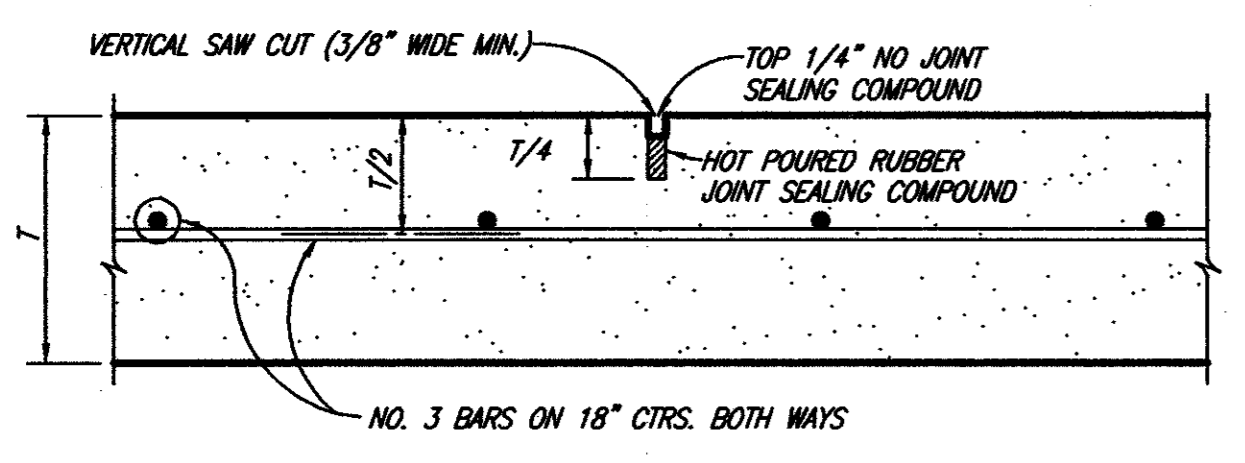
**CONNECTION TO EXISTING PAVEMENT**  
NOT TO SCALE



**CONSTRUCTION JOINT NOTES:**

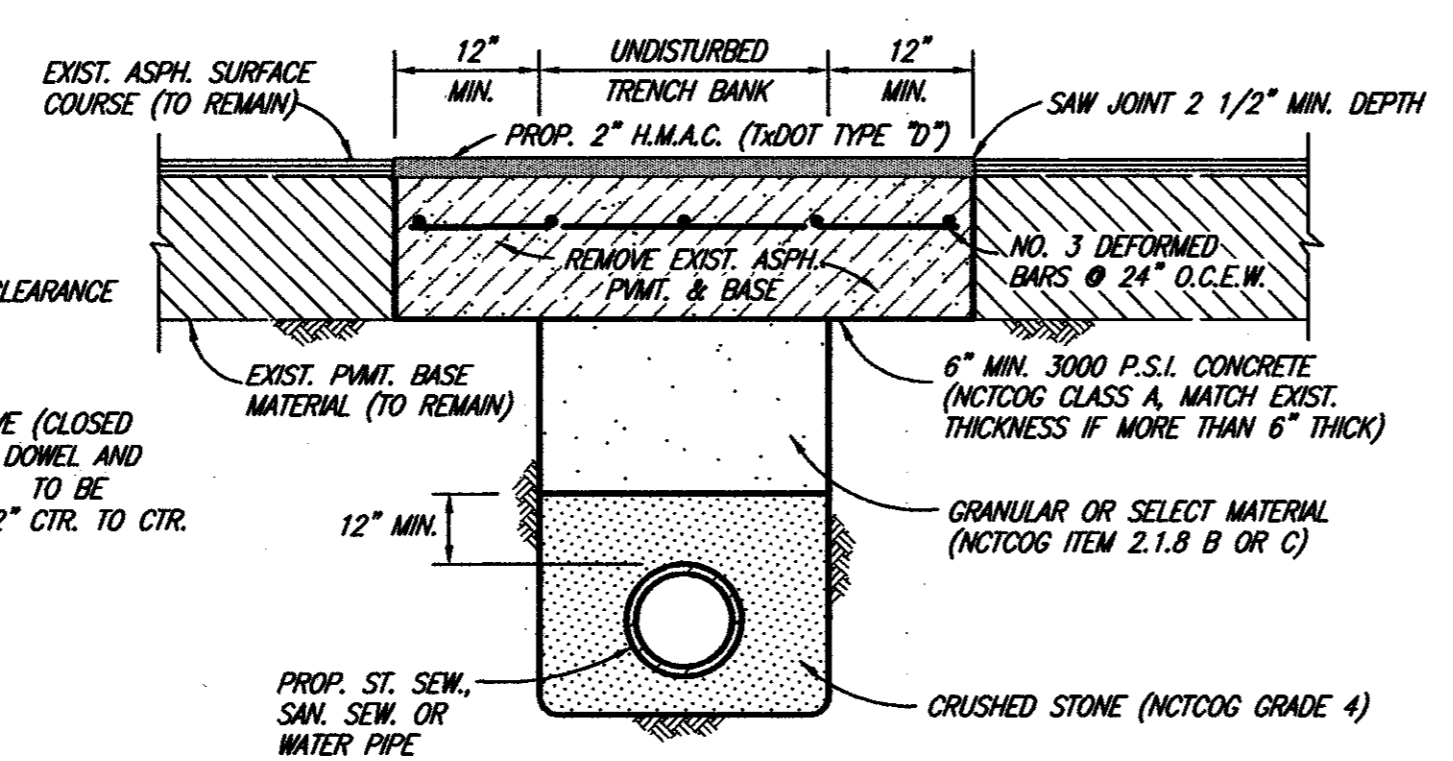
1. CONTRACTOR SHALL PROTECT KEYWAY PRIOR TO SECOND POUR. IF LONGITUDINAL KEYWAY IS DAMAGED, CONTRACTOR SHALL REPAIR WITH THE USE OF LONGITUDINAL BUTT JOINT (DRILL DOWELS INTO FIRST POUR).
2. THICKENED EDGES ARE REQUIRED FOR FUTURE WIDENING ONLY.

**CONSTRUCTION JOINT**  
NO SCALE

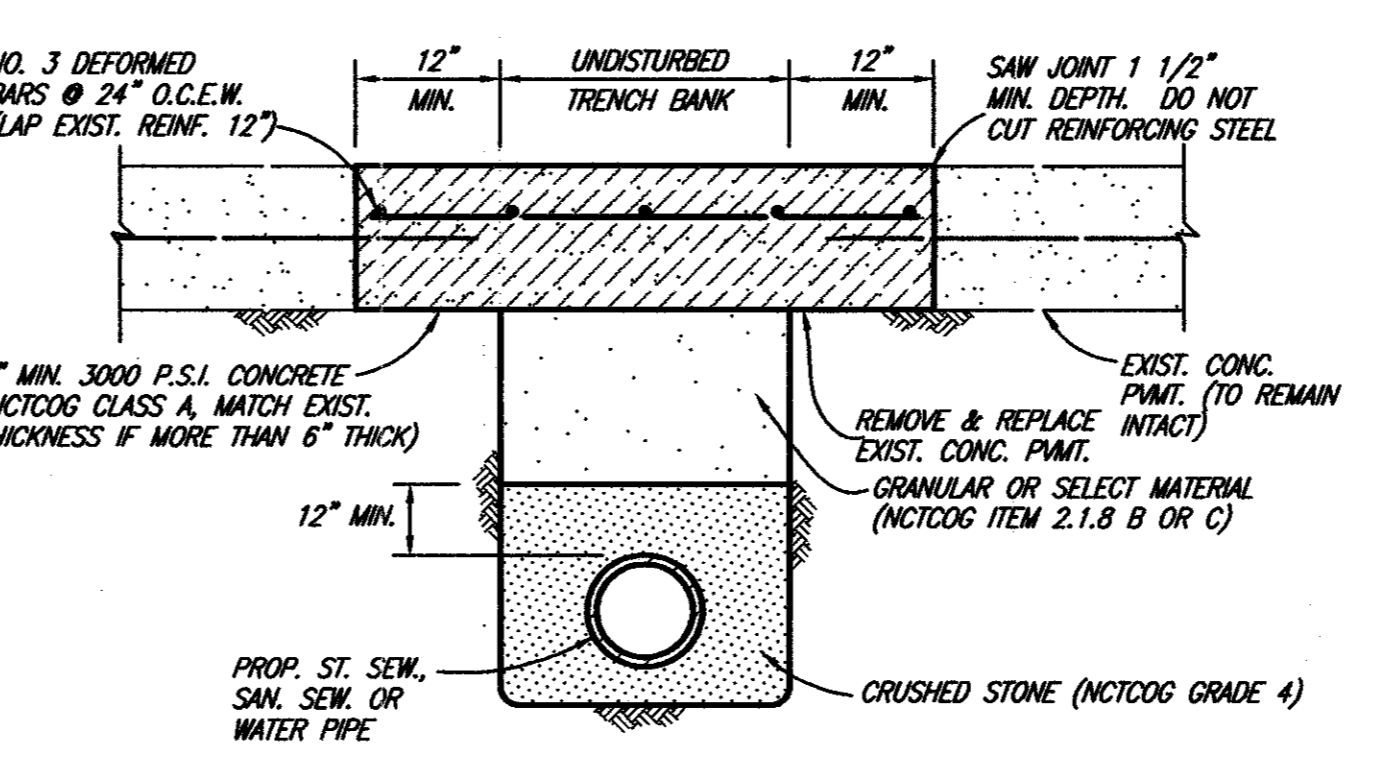


TRANSVERSE JOINTS SPACED 15 FT. C.-C. (MAX.)  
LONGITUDINAL JOINTS SPACED 20 FT. C.-C. (MAX.)

**SAWED DUMMY JOINT**  
NO SCALE

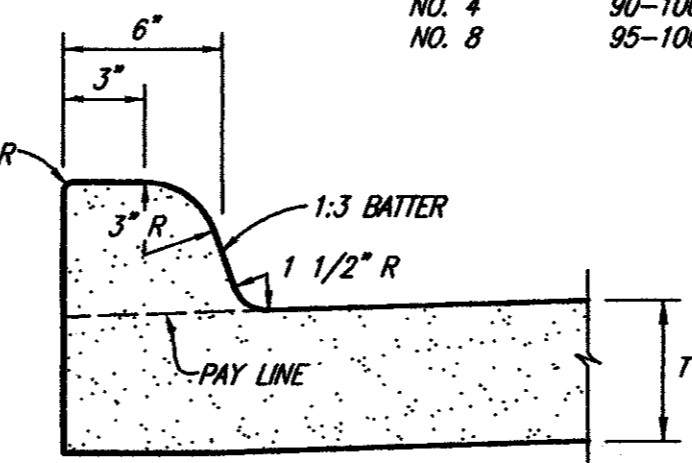


**ASPHALT PAVEMENT REPAIR "A"**  
NO SCALE



**CONCRETE PAVEMENT REPAIR "B"**  
NO SCALE

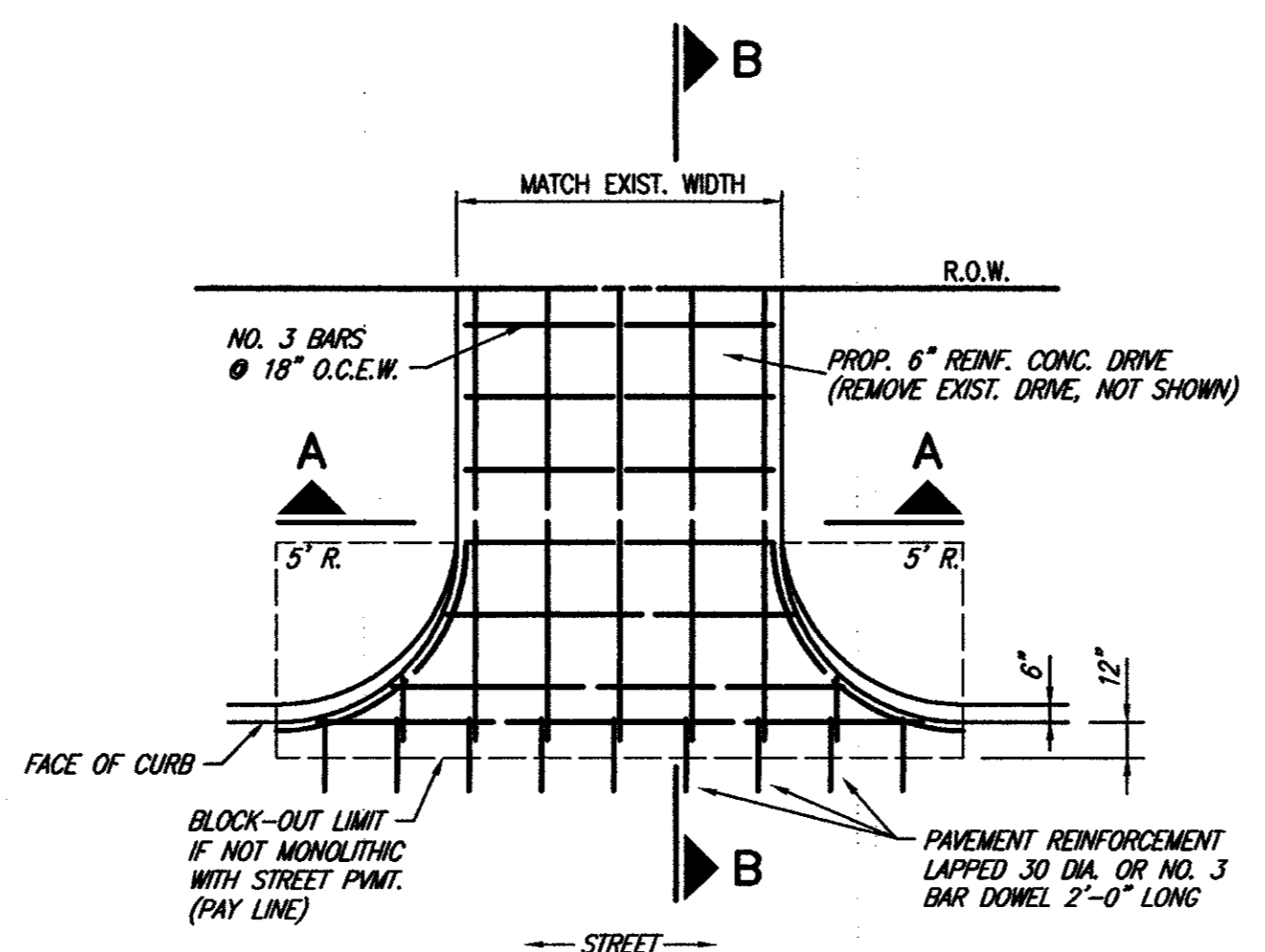
SIEVE SIZE	PERCENT RETAINED
1 1/2"	0%
1"	0-5%
1/2"	40-75%
NO. 4	90-100%
NO. 8	95-100%



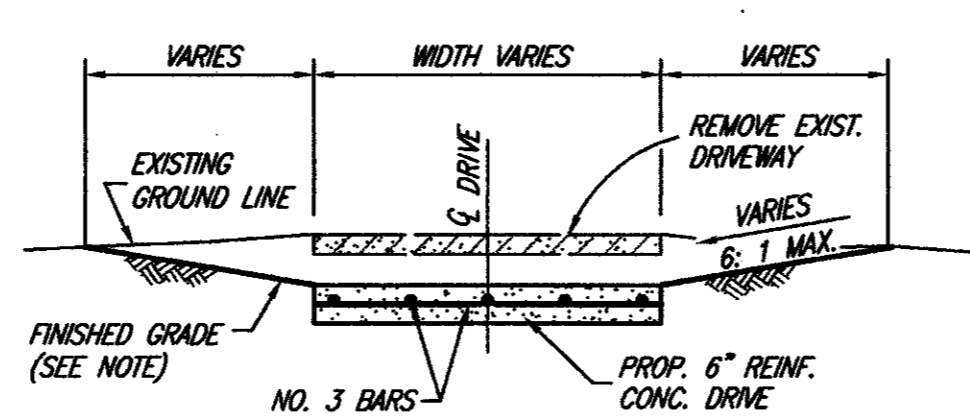
**INTEGRAL CURB**  
NO SCALE

**GENERAL PAVING NOTES**

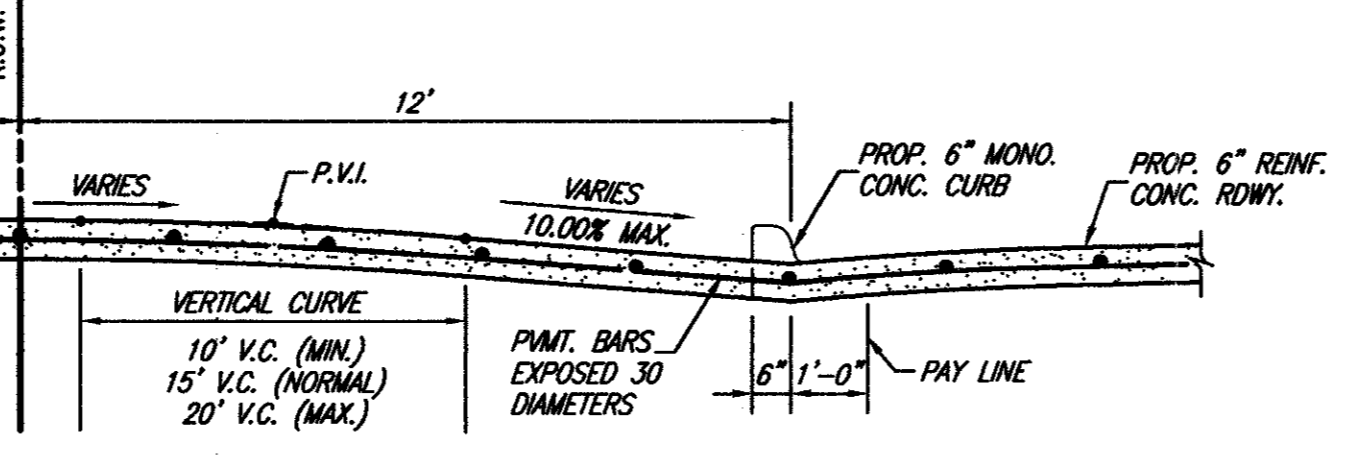
1. CONTRACTOR SHALL SAWCUT ALL PAVEMENT. DURING REMOVAL OF CONCRETE, CONTRACTOR SHALL EXPOSE ALL REINFORCING STEEL.
2. SAW CUT SHALL BE FULL DEPTH OF CONCRETE OR ASPHALT PAVEMENT.
3. DURING RECONSTRUCTION, NEW REINFORCING STEEL SHALL BE TIED TO EXISTING STEEL. IF NO EXISTING STEEL IN PAVEMENT, CONTRACTOR SHALL CONSTRUCT LONGITUDINAL BUTT JOINTS UTILIZING NO. 4 SMOOTH BARS.
4. CONCRETE SHALL BE 6" REINFORCED, 3000 P.S.I. STRENGTH AT 28 DAYS.



**DRIVEWAY RETURN TO STREET**

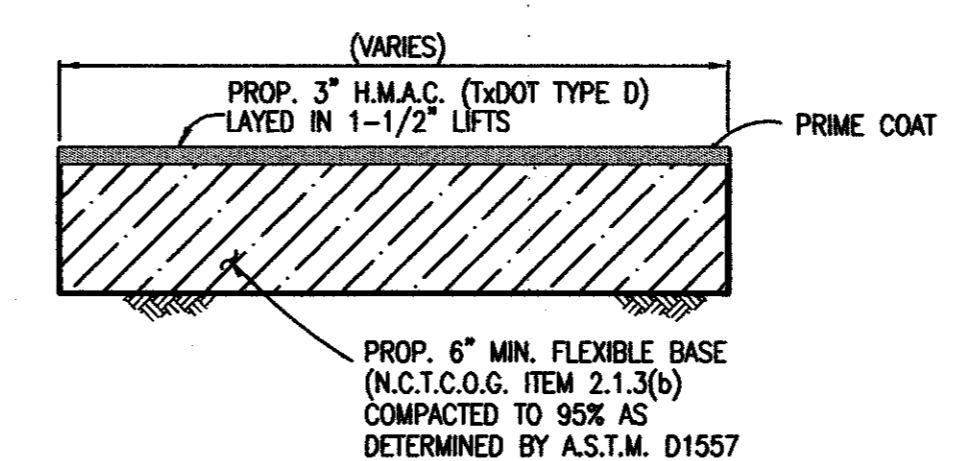


**SECTION A-A**

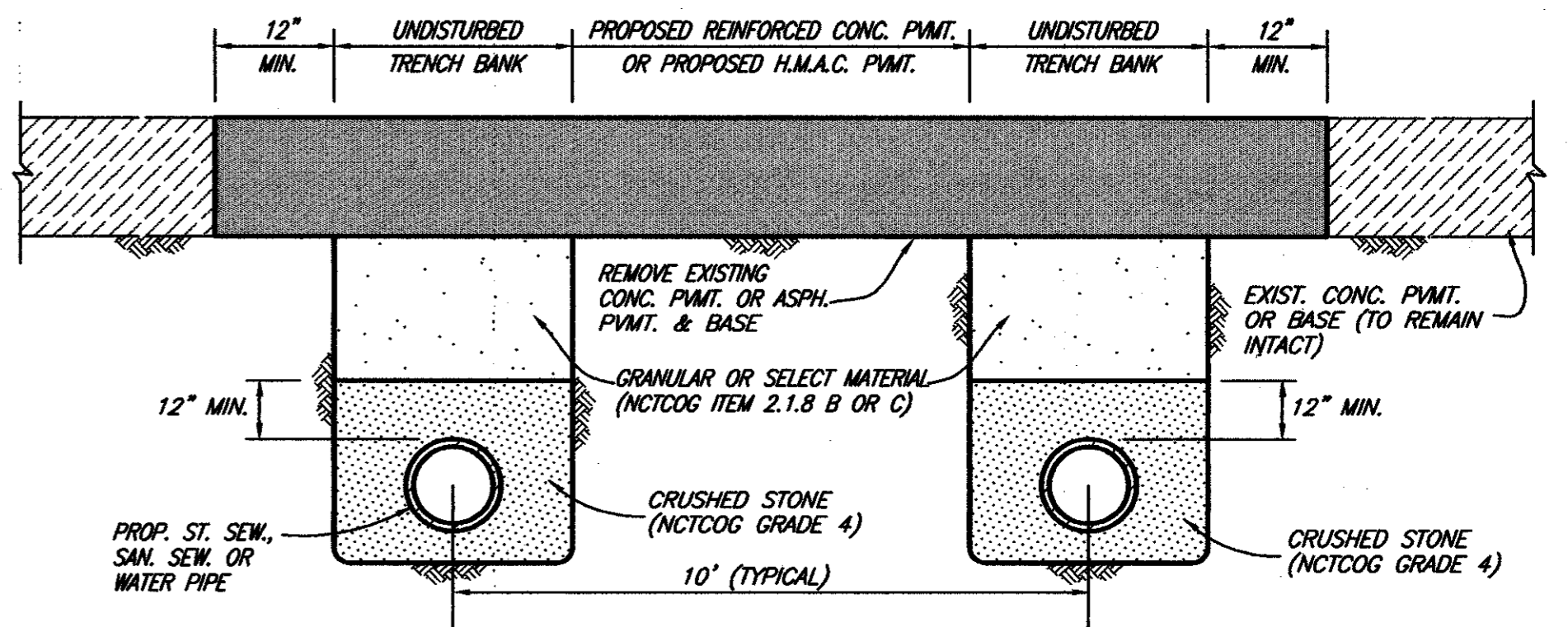


**SECTION B-B**

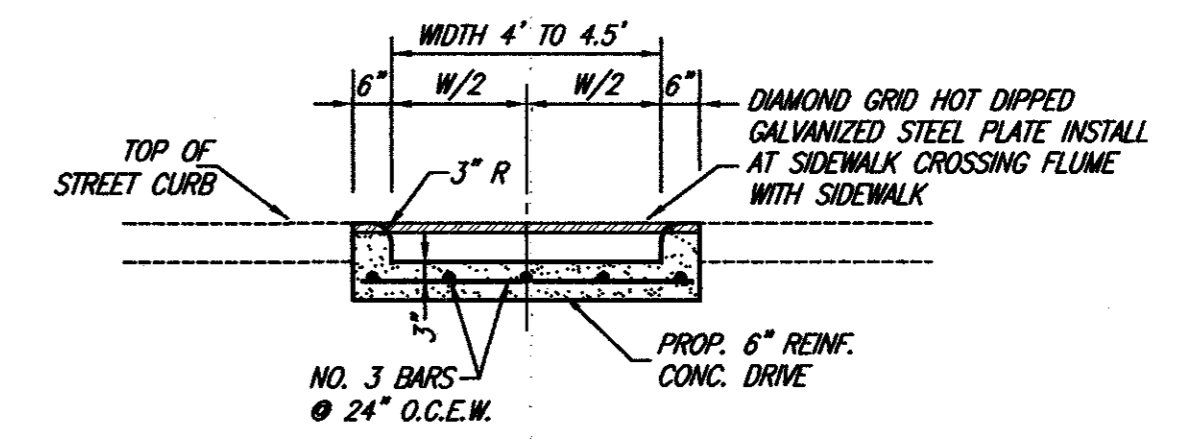
**DRIVEWAY RETURN SECTIONS**



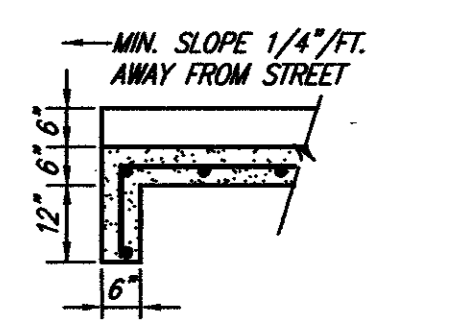
**ASPHALT PAVEMENT REPAIR OUTSIDE PIPE REPAIR**  
NOT TO SCALE



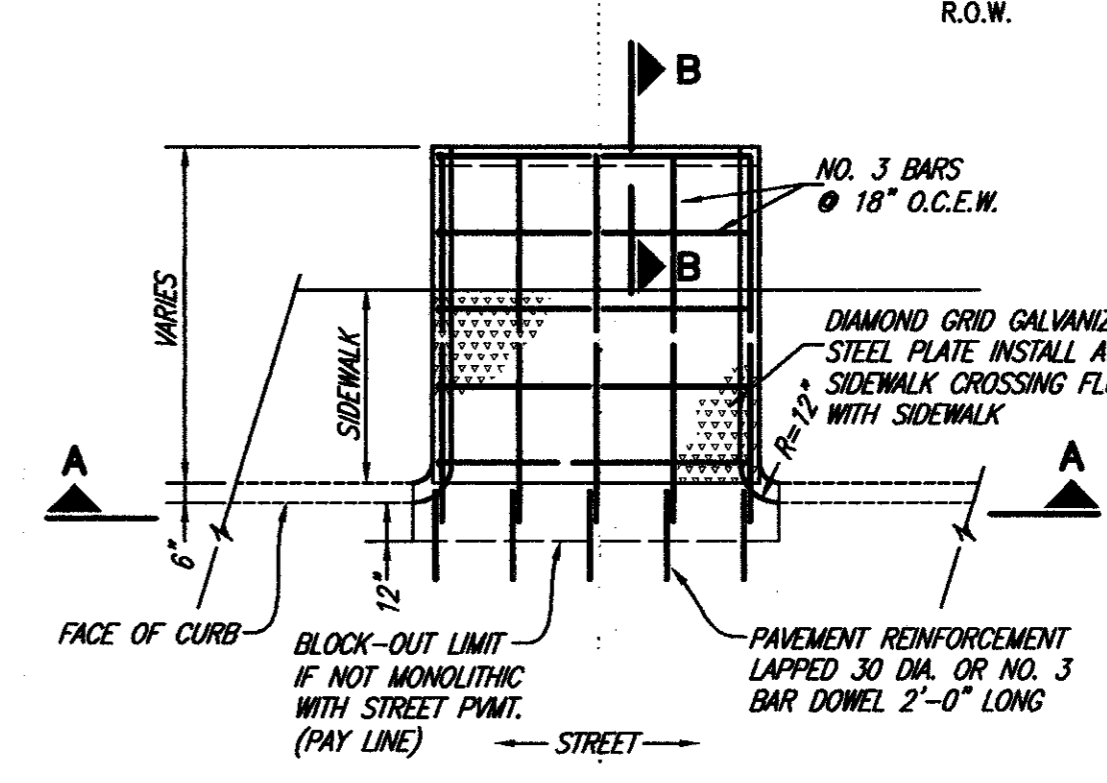
**PROPOSED ASPHALT OR CONCRETE REPAIR "C"**  
(SAN. SEW. STA. 10+50 TO STA. 32+50)  
NO SCALE



**SECTION A-A**

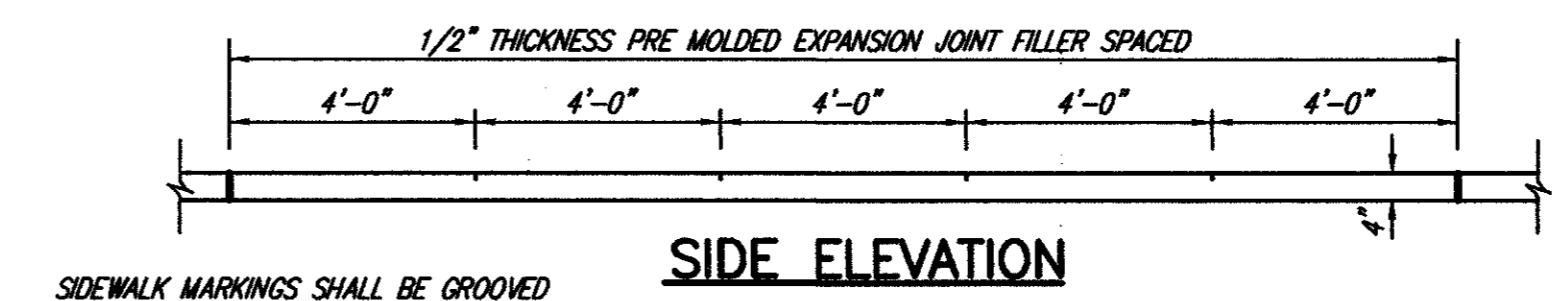


**SECTION B-B**

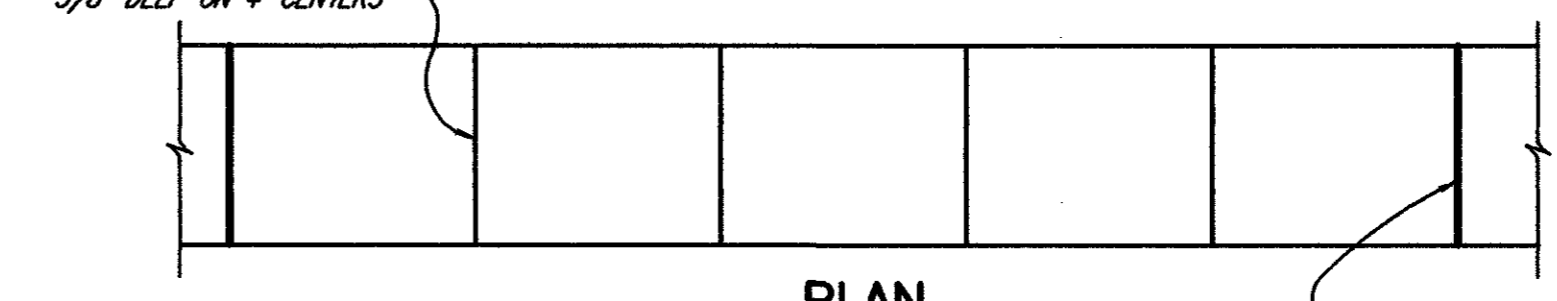


**PLAN**  
**REINFORCED CONCRETE FLUME**  
NO SCALE

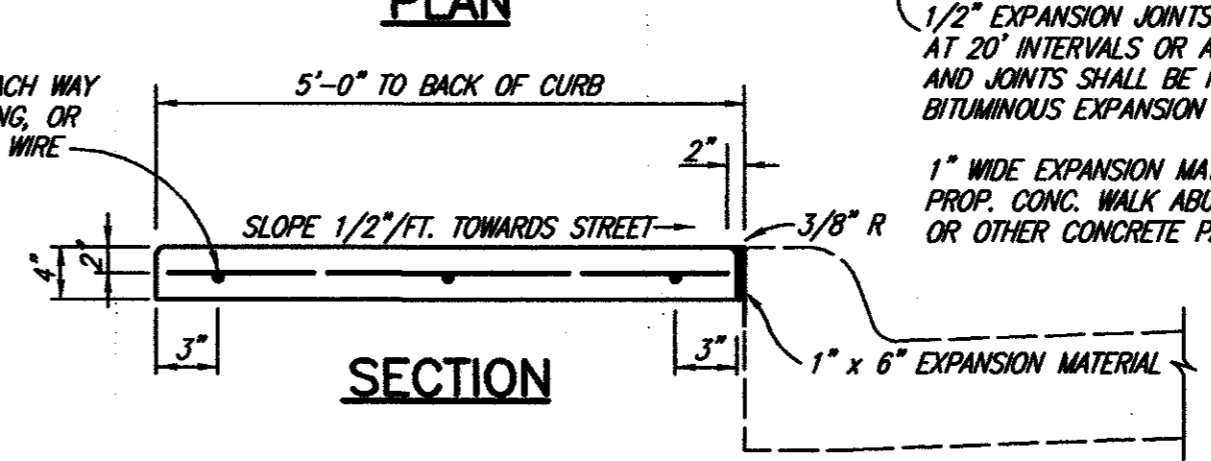
**STEEL PLATE FLUME COVER**  
PLATE THICKNESS SHALL BE 5/8 INCHES BASE ON 100 P.S.I. LIVE LOAD AND MAX. DEAD & LIVE LOAD DEFLECTION OF 1/240. BOLT PLATE DOWN WITH BRASS BOLTS. BOLTS SHALL BE 1/2" DIA. RECESSED TO FLUSH WITH TOP OF PLATE AND SPACED A MAXIMUM OF 12" ON CENTERS. 1/2" DIA. SELF-DRILLING ANCHORS SHALL BE USED AND SPACED THE SAME. SURFACE OF PLATE SHALL BE A NON-SKID MATERIAL.



**SIDE ELEVATION**



**PLAN**

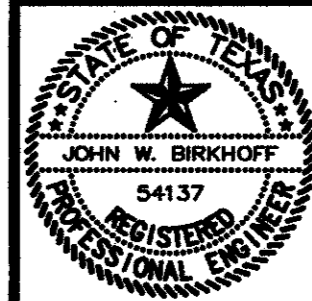


**SECTION**

**CONCRETE SIDEWALK**  
NO SCALE

REVISED TO CONFORM TO CONSTRUCTION RECORDS BY J.W.B. DATE 12/07/98

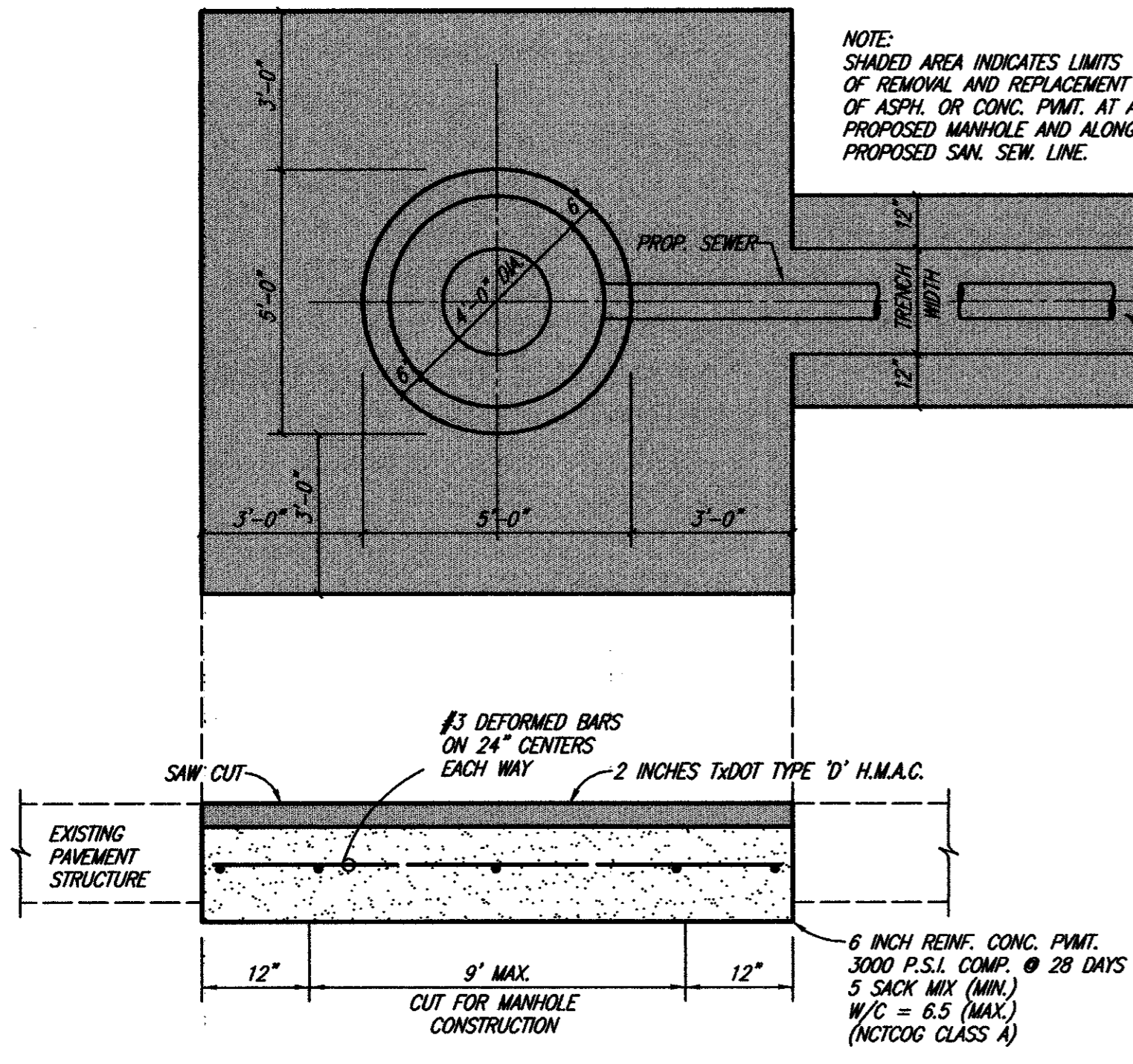
THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.  
*John W. Birkhoff*  
DATE: 9/5/97



**TOWN OF ADDISON, TEXAS**  
ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT  
**STANDARD DETAILS**  
**SHIMEK, JACOBS & FINKLEA, L.L.P.**  
CONSULTING ENGINEERS  
Dallas, Texas

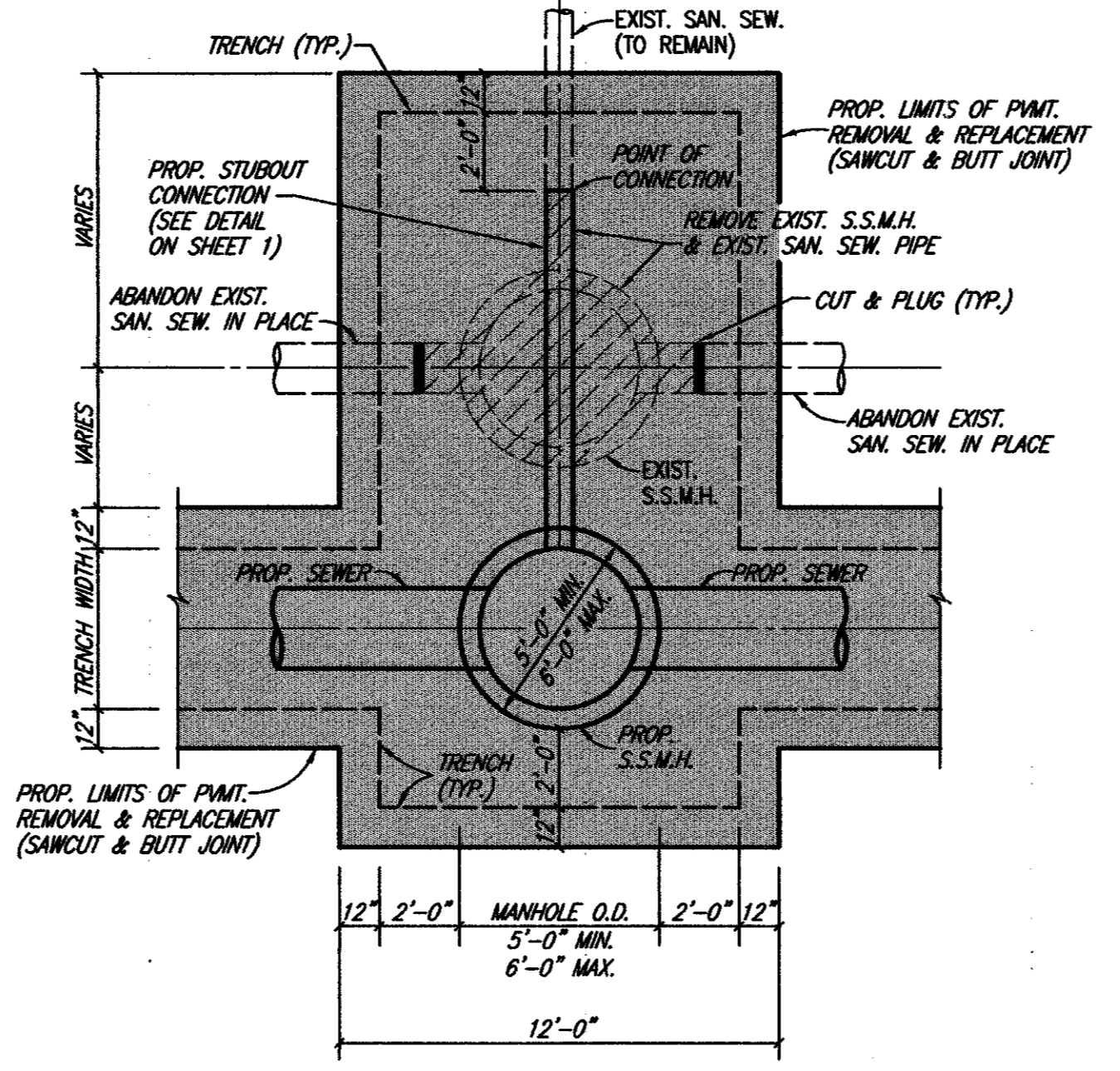
DESIGNED BY: S.J. & F. PROJECT: 96 169 SHEET NO. 21  
DRAWN BY: S.J. & F. DATE: FEBRUARY 1997 OF 24 SHEETS





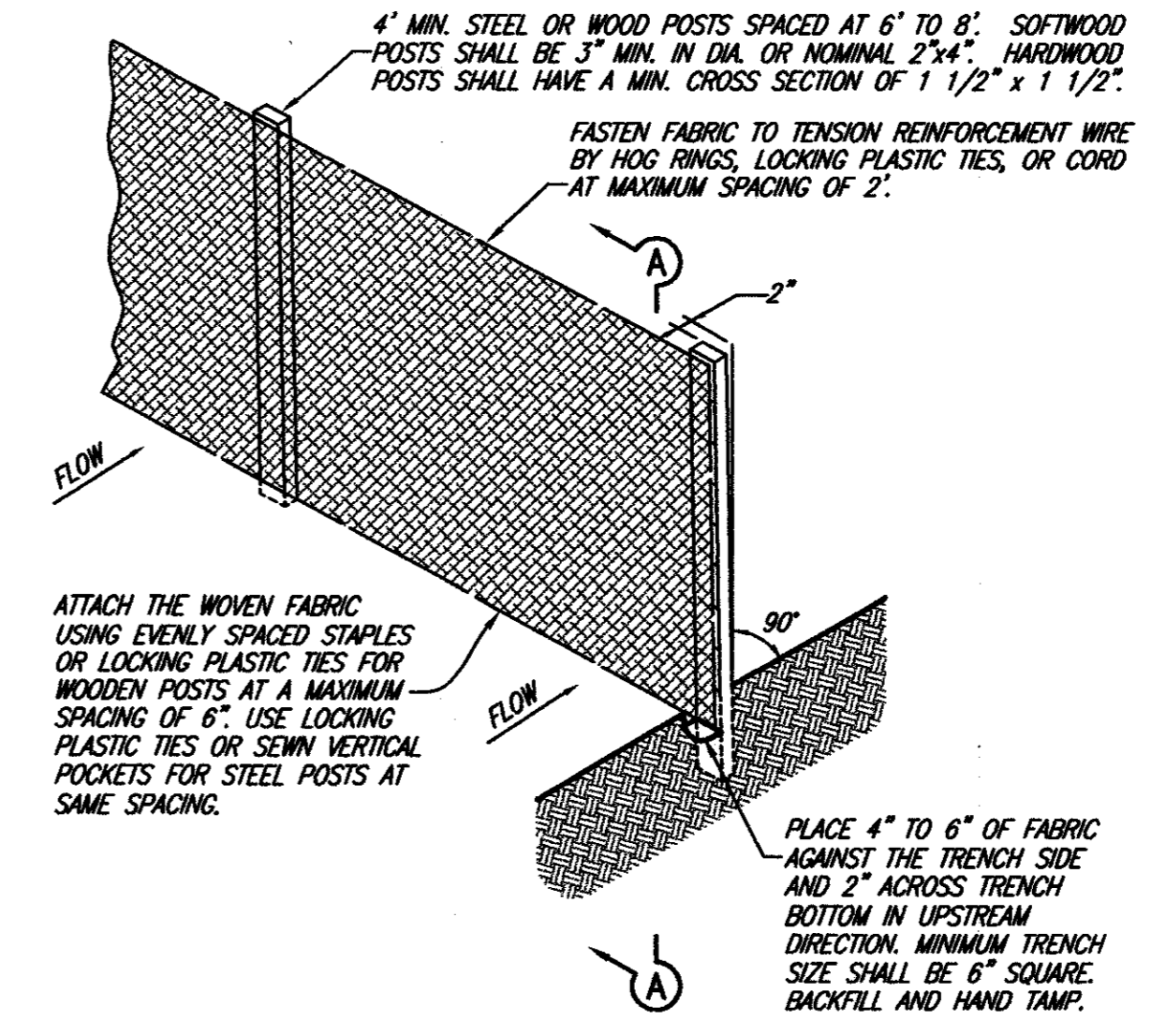
**REMOVE AND REPLACE EXISTING PAVEMENT AT PROPOSED MANHOLE**

NO SCALE



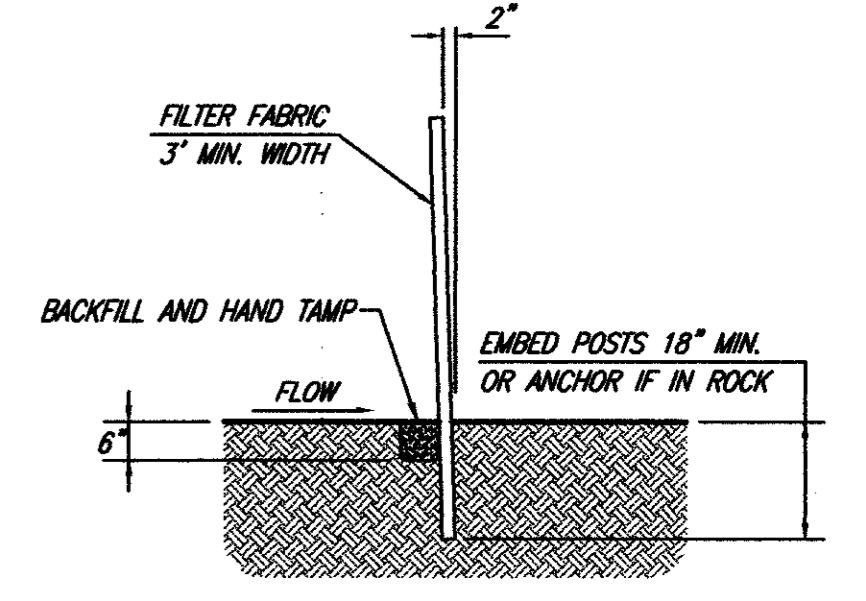
**CONSTRUCT SANITARY SEWER MANHOLE W/ REMOVE EXISTING MANHOLE**

TYPICAL PAVEMENT REPLACEMENT LIMITS  
NO SCALE



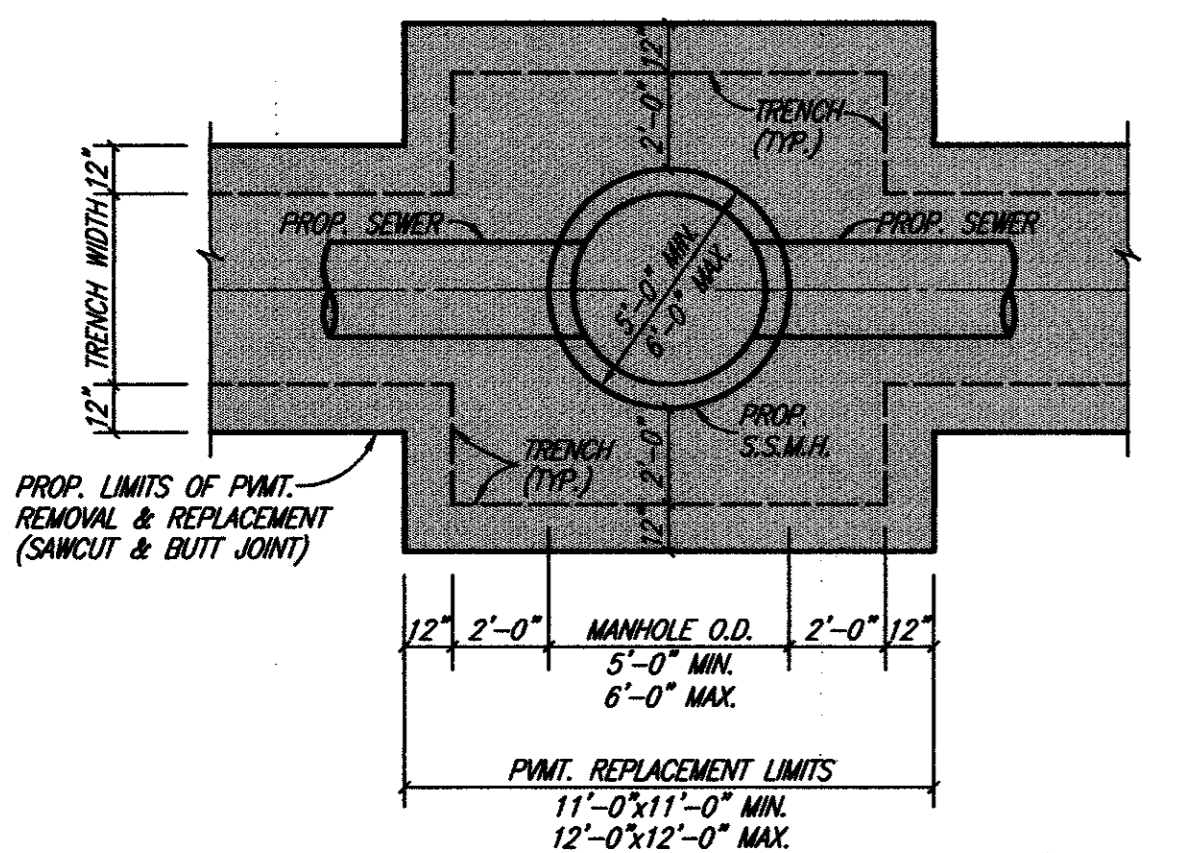
**SILT FENCE ALTERNATE**

NO SCALE



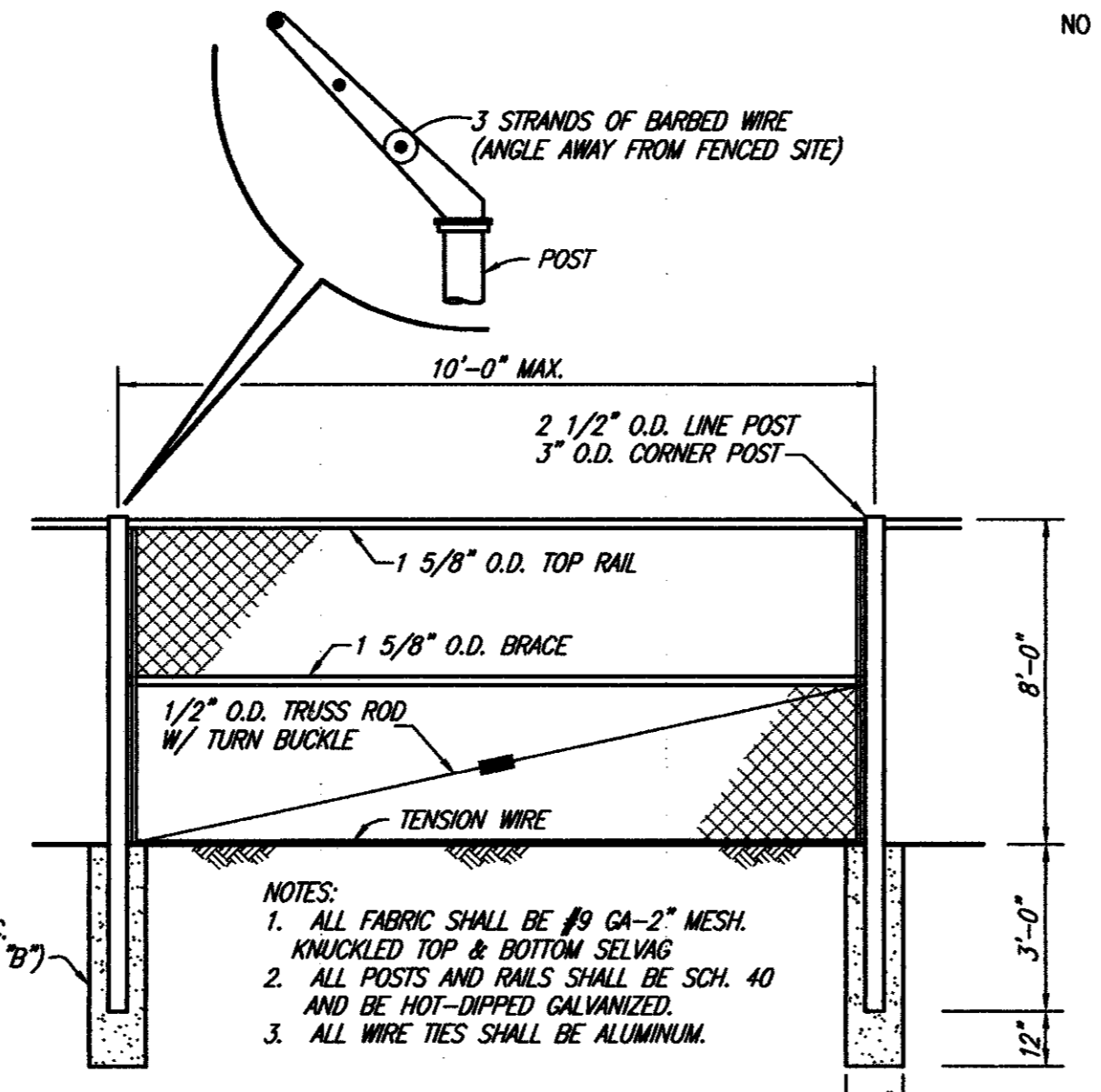
**SECTION A-A**

NO SCALE



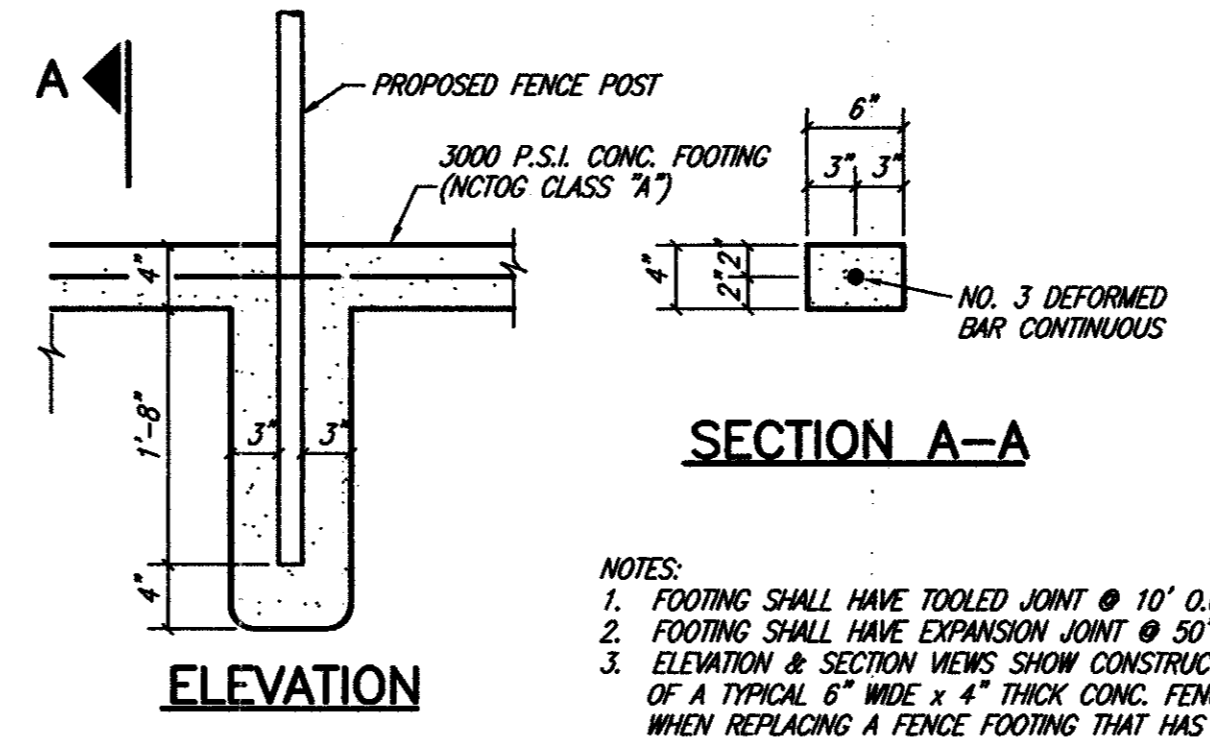
**CONSTRUCT SANITARY SEWER MANHOLE**

TYPICAL PAVEMENT REPLACEMENT LIMITS  
NO SCALE



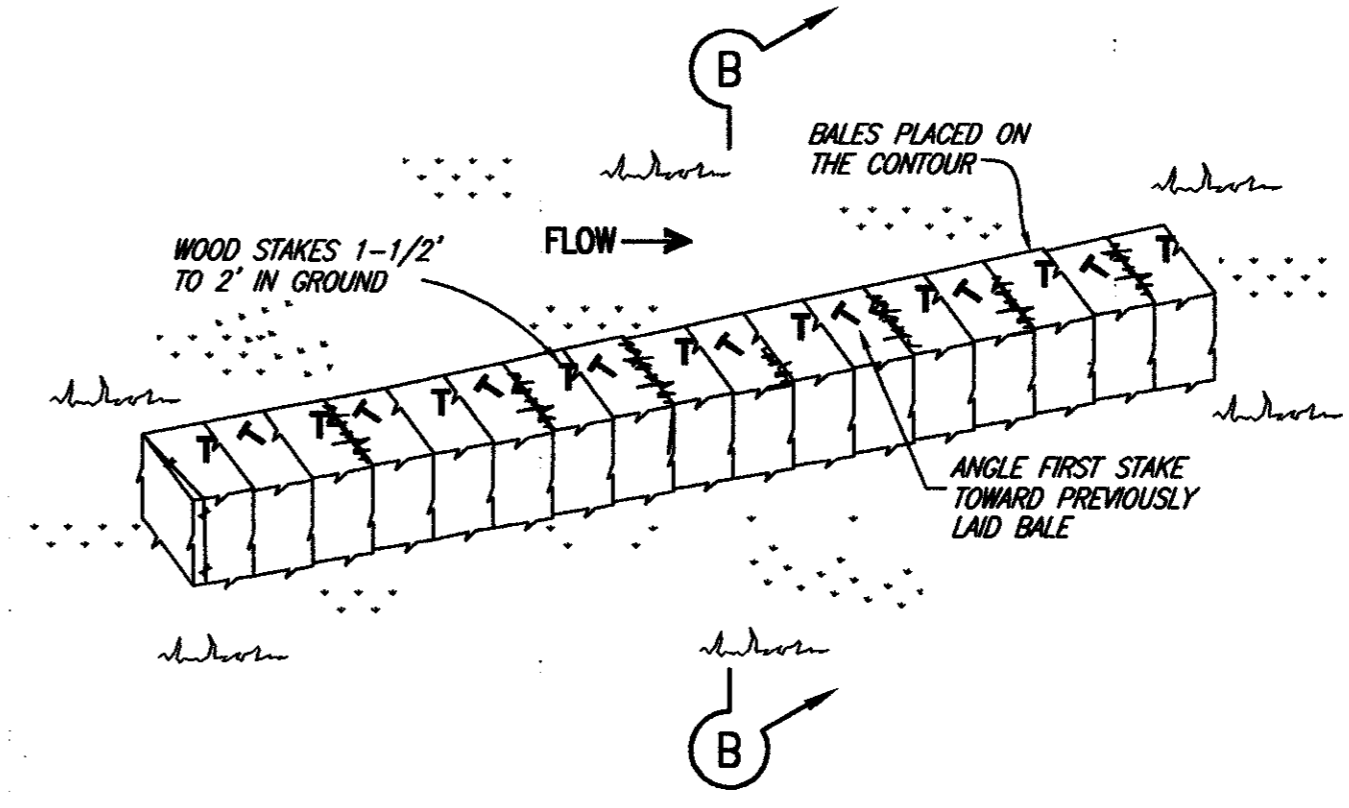
**CHAIN LINK FENCE**

NO SCALE



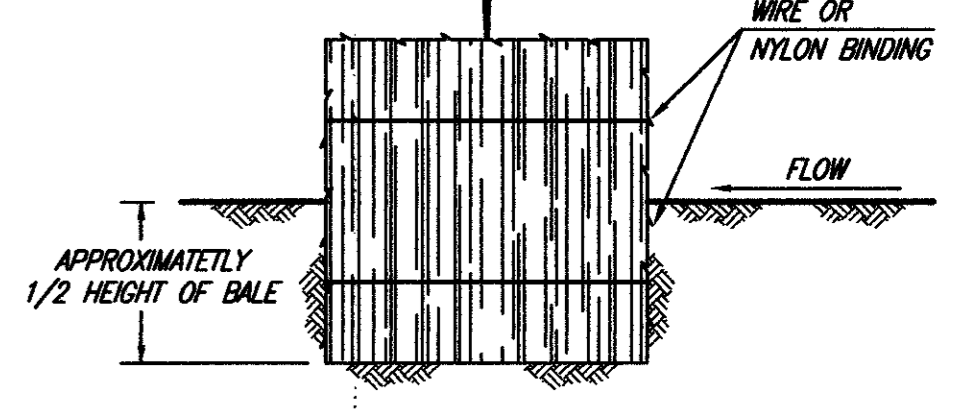
**FENCE WITH CONCRETE FOOTING**

NO SCALE



**BALED HAY ALTERNATE**

NO SCALE



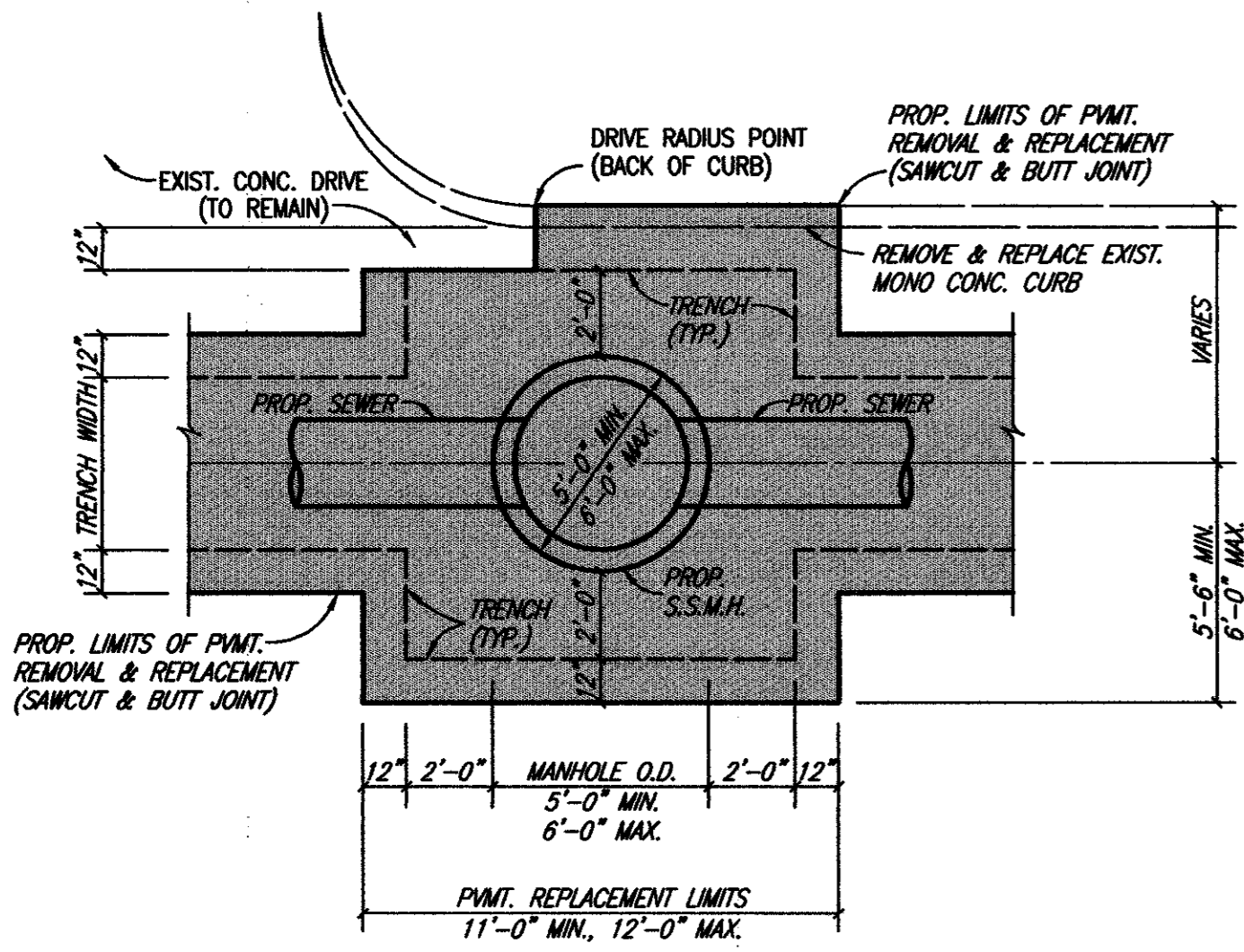
**SECTION B-B**

NO SCALE

**BALED HAY EROSION CONTROL NOTES**

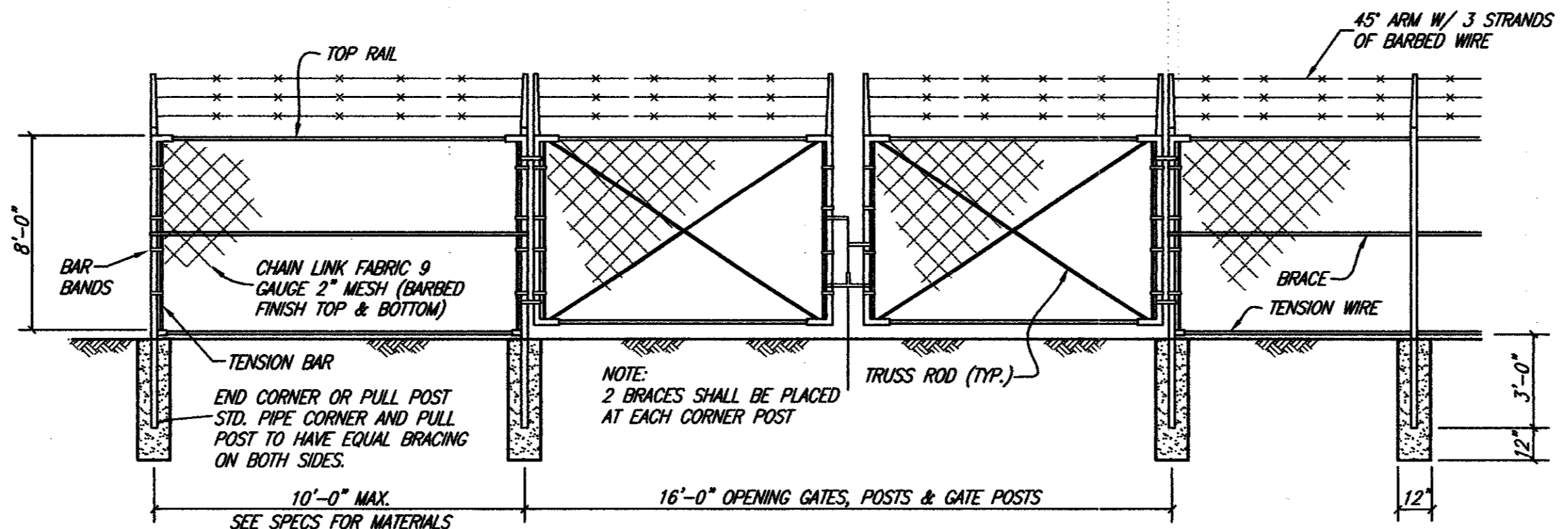
- HAY BALES SHALL BE A MINIMUM OF 30" IN LENGTH AND WEIGH A MINIMUM OF 50 LBS.
- HAY BALES SHALL BE BOUND BY EITHER WIRE OR NYLON OR POLYPROPYLENE STRING. THE BALES SHALL BE COMPOSED ENTIRELY OF VEGETABLE MATTER.
- HAY BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES. THE BALES SHALL BE PLACED WITH THE BINDINGS PARALLEL TO THE GROUND.
- HAY BALES SHALL BE SECURELY ANCHORED IN PLACE WITH 3/8" DIA. REBAR OR 2x2" WOOD STAKES, DRIVEN THROUGH THE BALES. THE FIRST STAKE SHALL BE ANGLED TOWARDS THE PREVIOUSLY LAID BALE TO FORCE THE BALES TOGETHER.

**EROSION CONTROL ALTERNATES**



**CONSTRUCT SANITARY SEWER MANHOLE AT EXISTING CONCRETE DRIVE**

TYPICAL PAVEMENT REPLACEMENT LIMITS  
NO SCALE

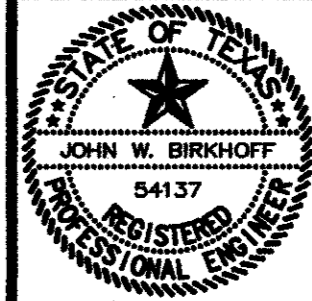


**TYPICAL CHAIN LINK GATES**

NO SCALE

REVISED TO CONFORM TO CONSTRUCTION RECORDS BY J.W.B. DATE 12/07/98

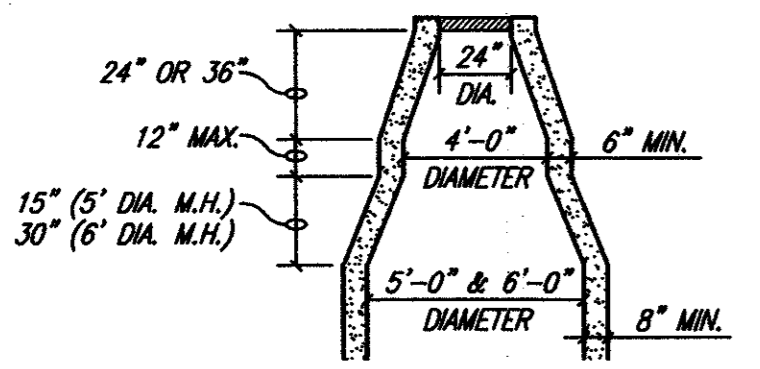
THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.  
DATE: 8/22/97



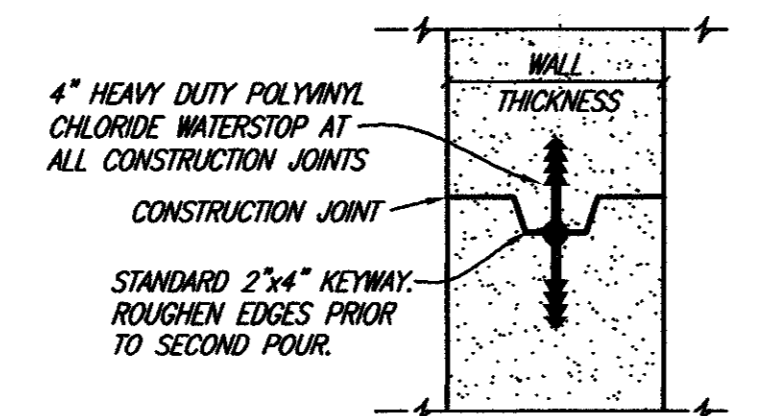
**TOWN OF ADDISON, TEXAS**  
ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT  
**STANDARD DETAILS**  
SHIMEK, JACOBS & FINKLEA, L.L.P.  
CONSULTING ENGINEERS  
Dallas, Texas

DESIGNED BY: S.J. & F.	PROJECT: 96 169	SHEET NO. 22
DRAWN BY: S.J. & F.	DATE: FEBRUARY 1997	OF 24 SHEETS

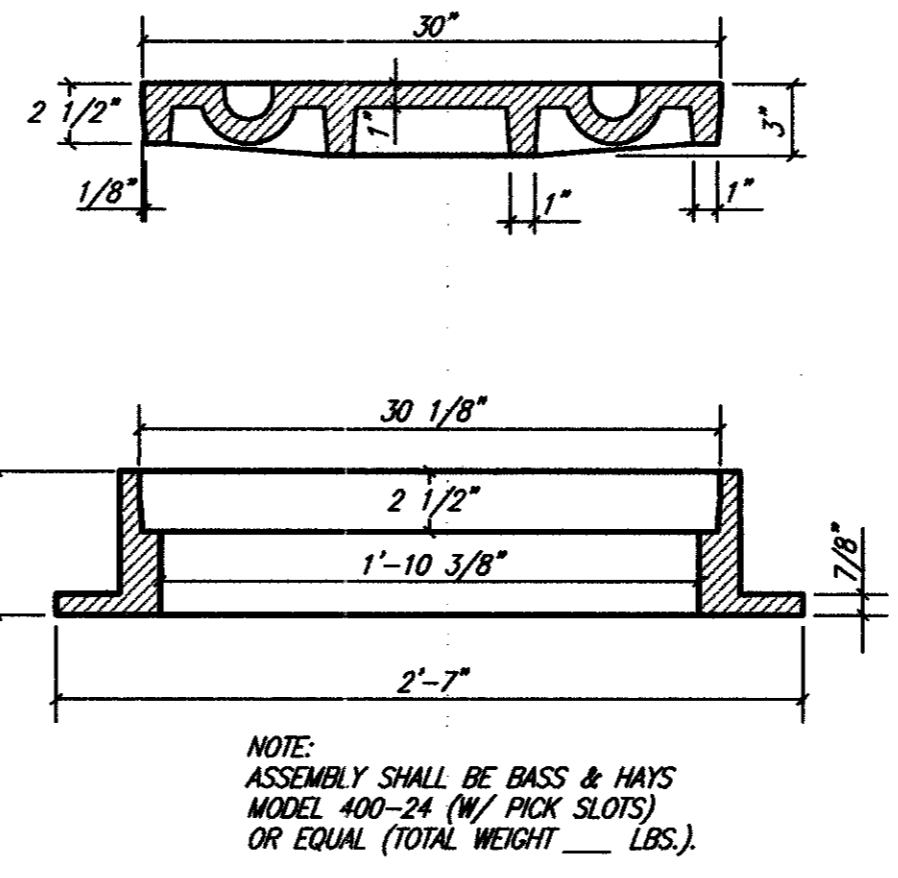
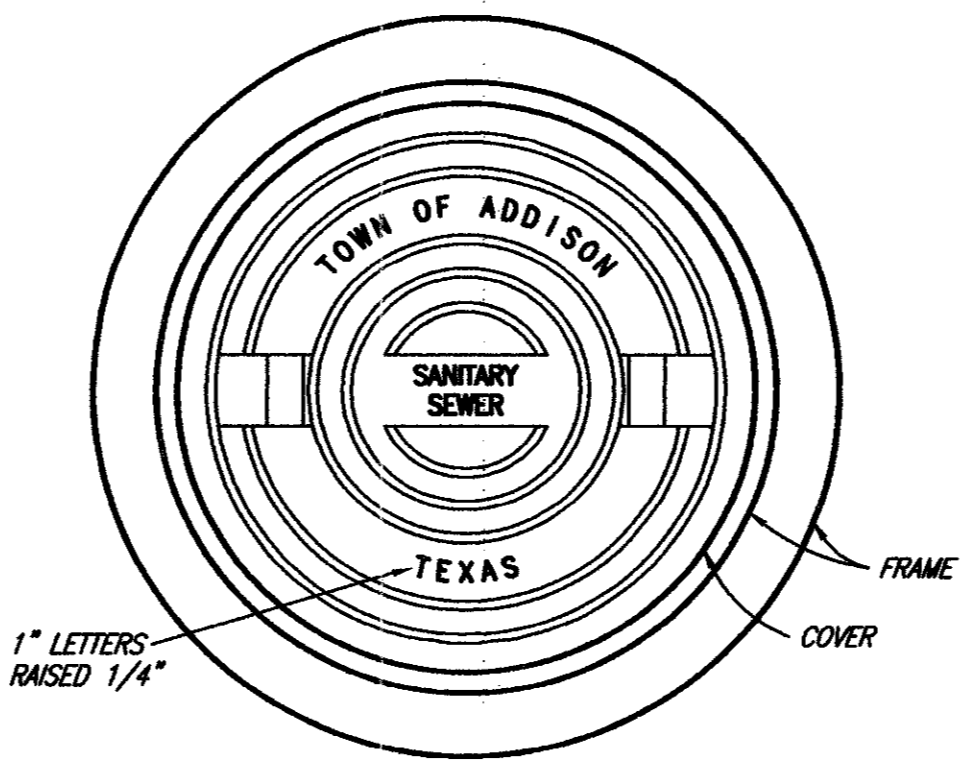




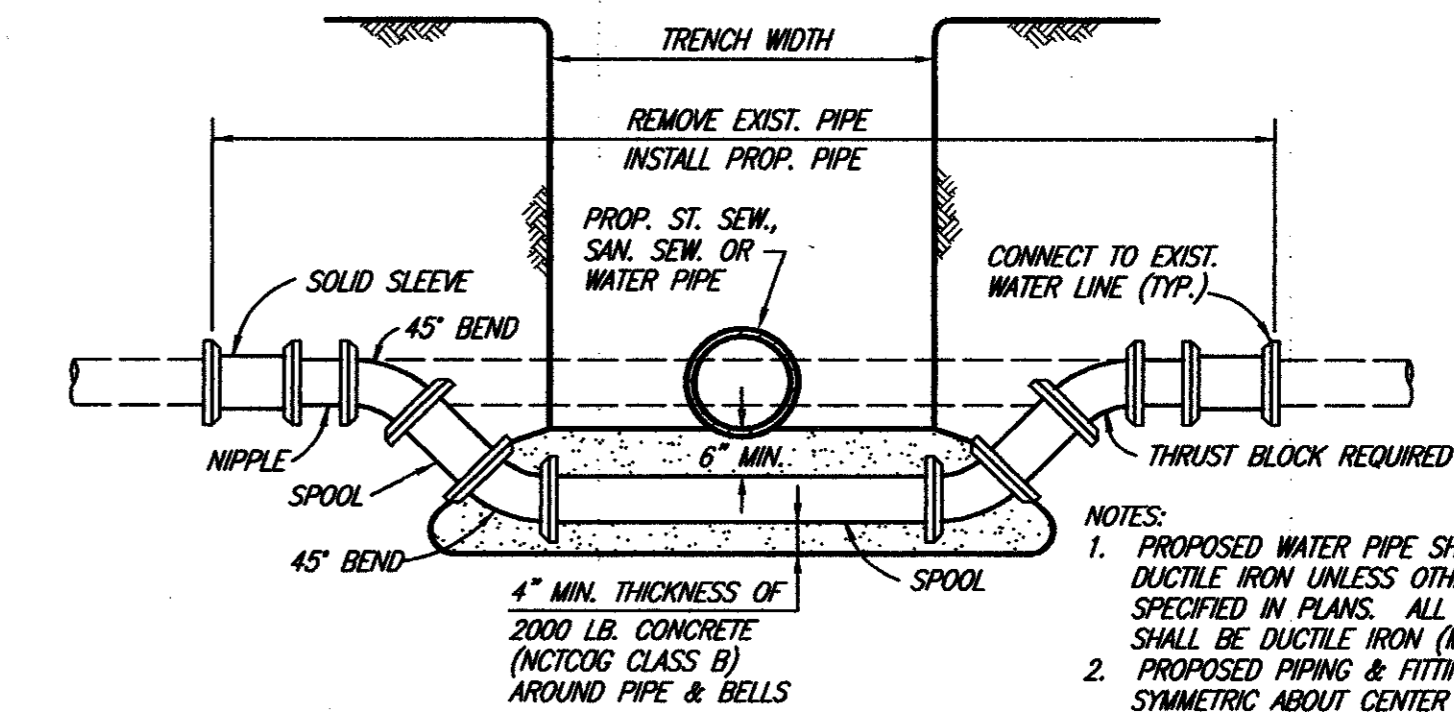
**CONE TRANSITION**  
5' & 6' DIAMETER MANHOLES ONLY



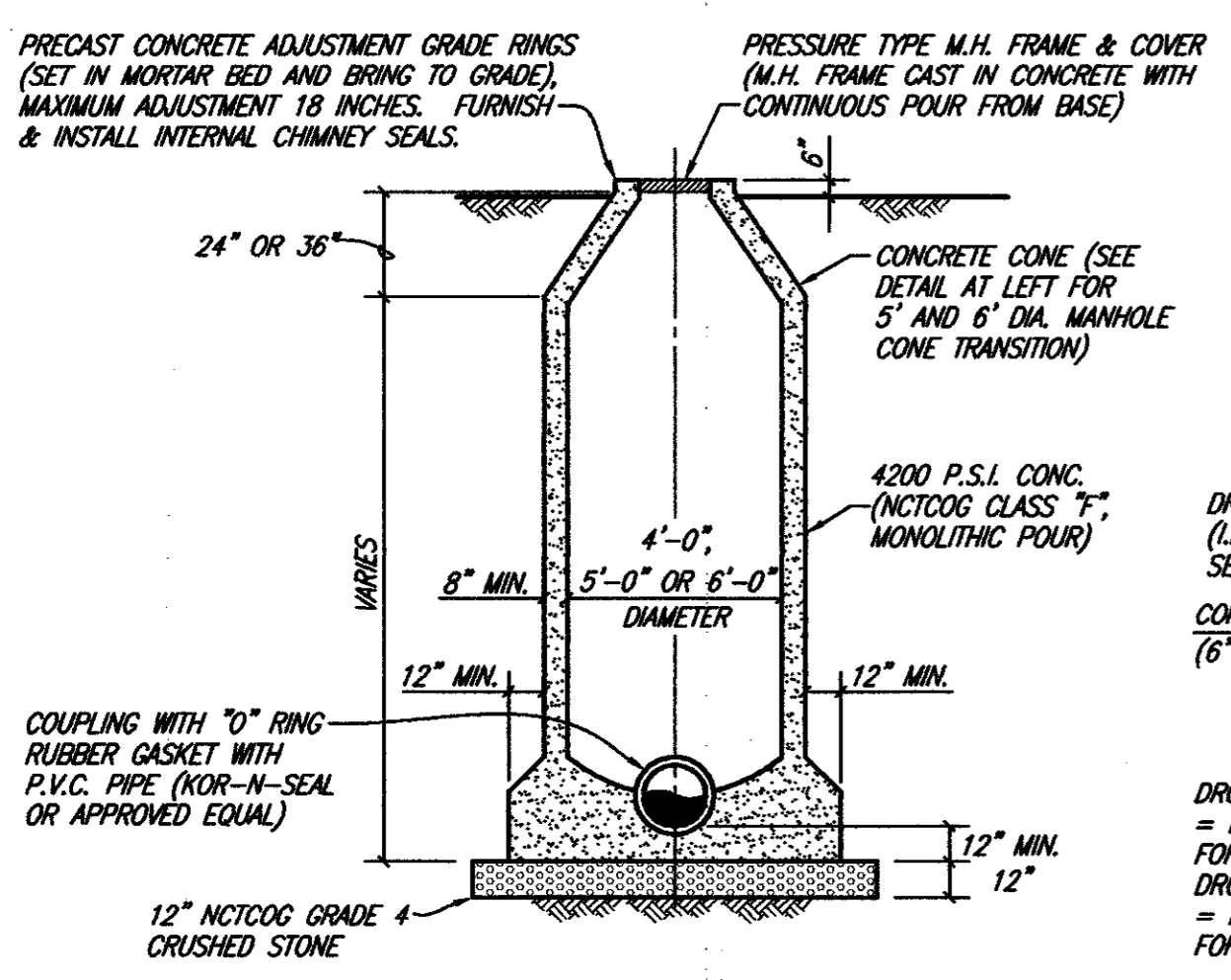
**MANHOLE CONSTRUCTION JOINT**  
KEYWAY WITH WATERSTOP



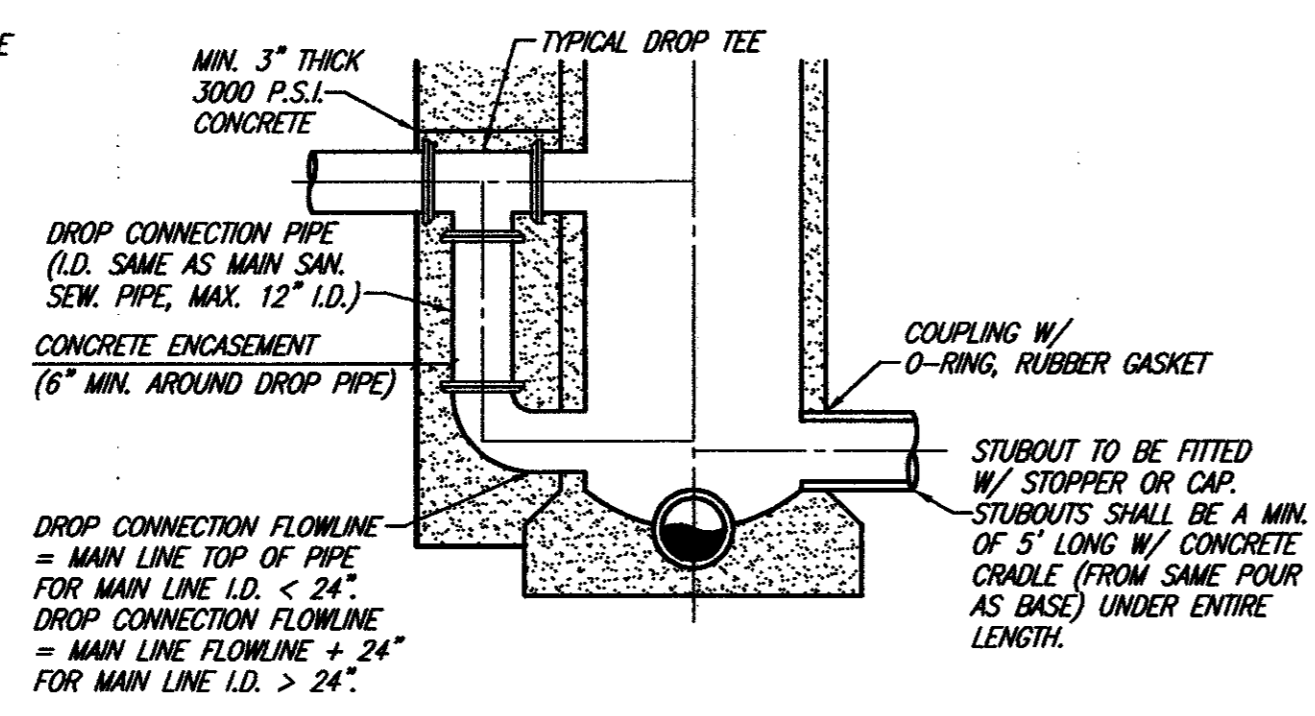
**MANHOLE RING AND COVER**  
NO SCALE



**WATER MAIN LOWERING**  
NO SCALE



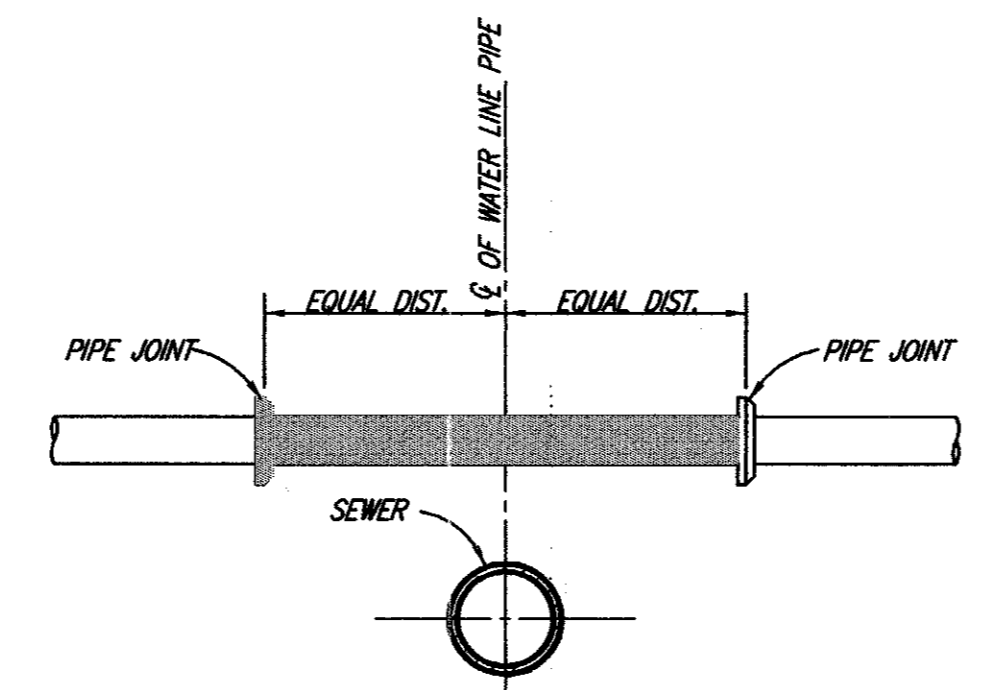
**STANDARD MANHOLE ELEVATION**  
4', 5' & 6' DIAMETER MANHOLES



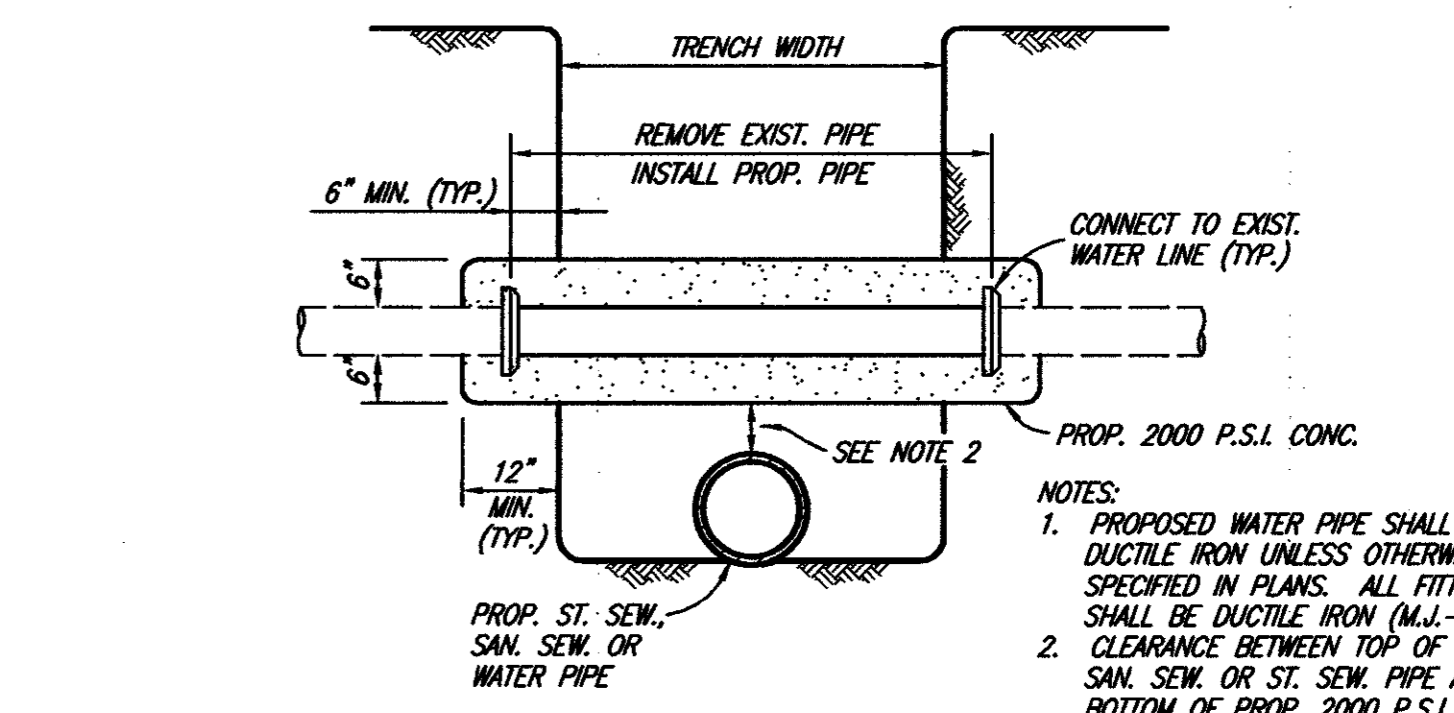
**DROP MANHOLE ELEVATION**  
4', 5' & 6' DIAMETER MANHOLES

**SANITARY SEWER MANHOLE (CAST IN PLACE)**

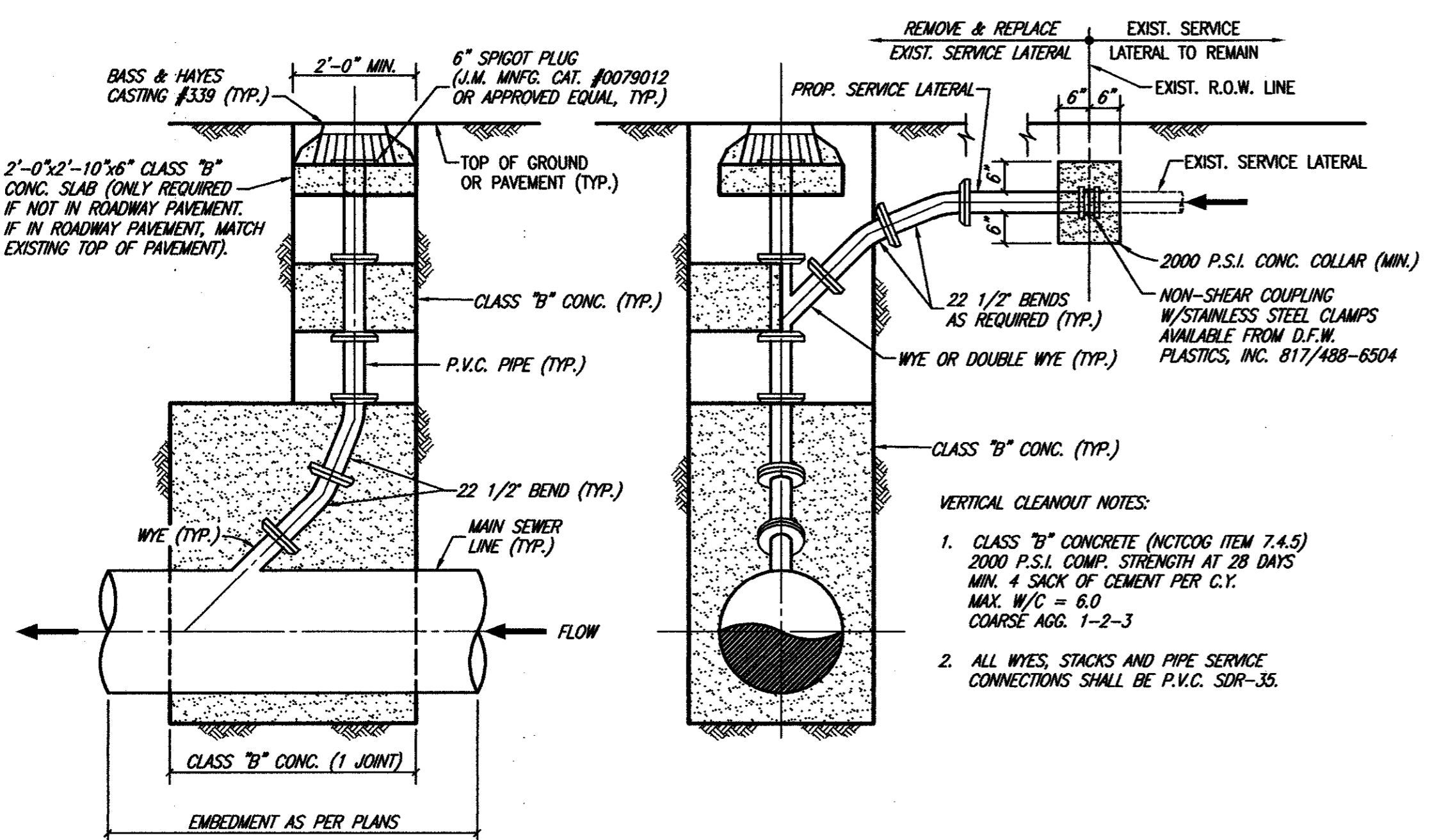
PRECAST MANHOLES NOT ACCEPTABLE IN ADDISON. MANHOLES SHALL BE PLUMB TO WITHIN 1 INCH FOR EVERY 5 FEET OF VERTICAL DEPTH.  
NO SCALE



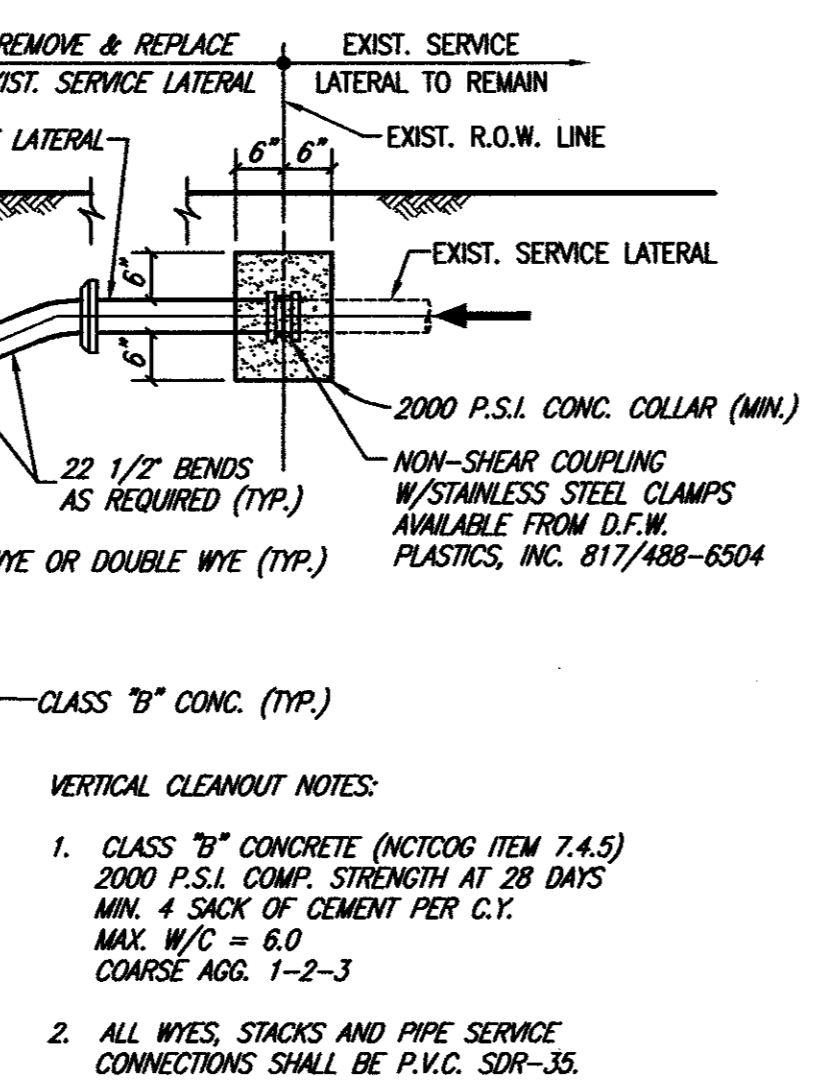
**TYPICAL WATER/SEWER CROSSING**  
NO SCALE



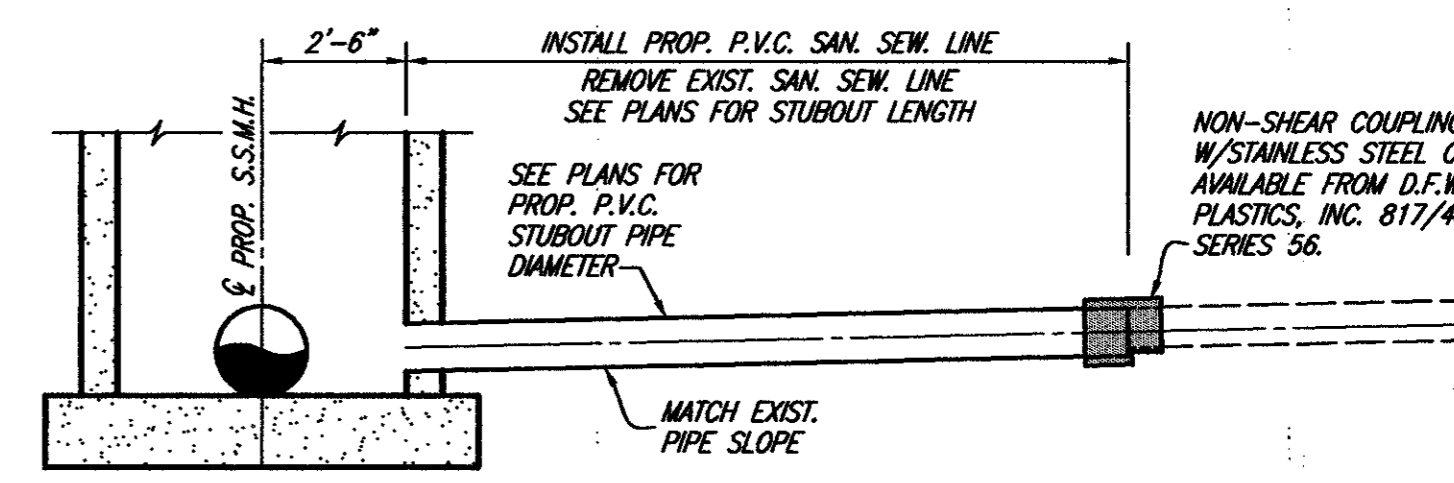
**UTILITY SUPPORT**  
NO SCALE



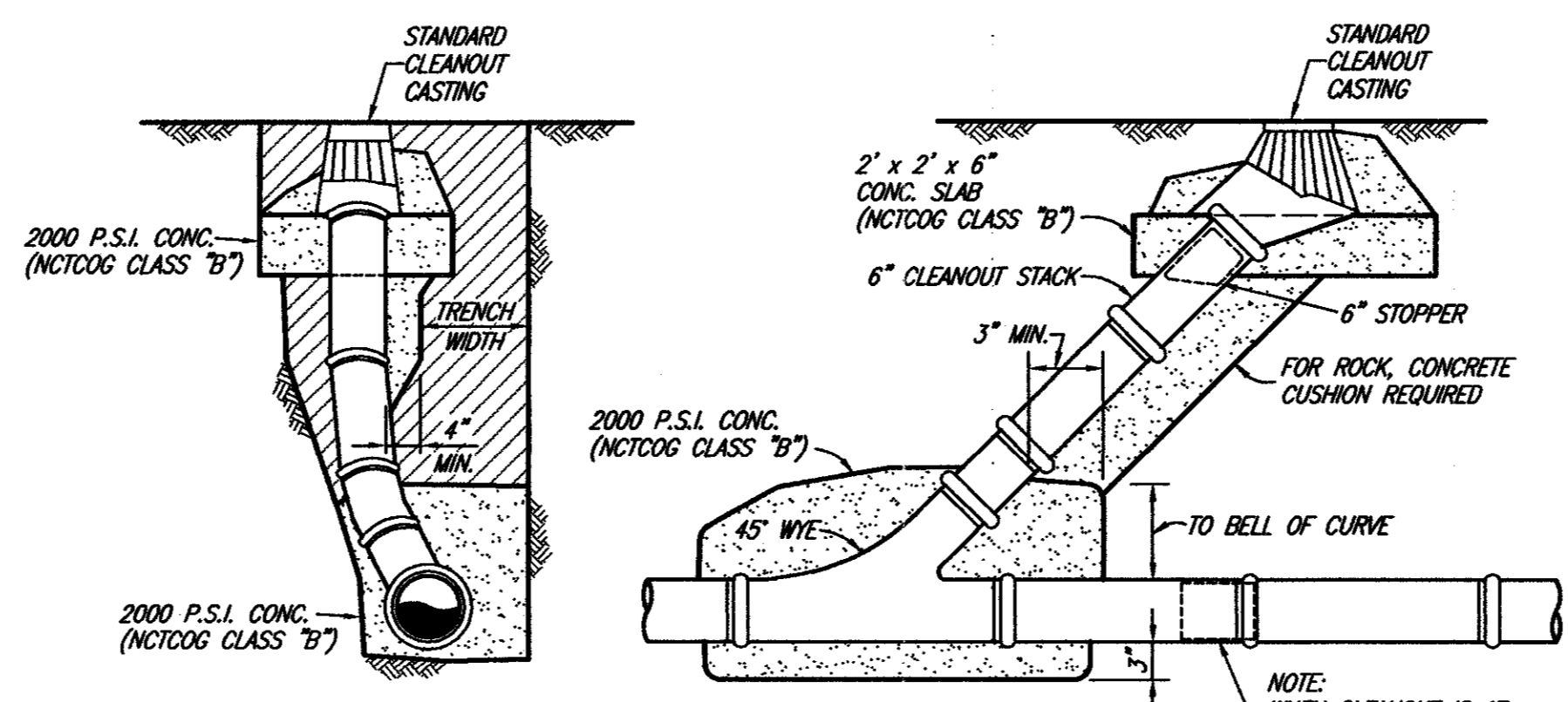
**VERTICAL CLEANOUT CONNECTION**  
(CONNECTION, WYE, CONCRETE, BENDS, CASTING, ETC. ALL SUBSIDIARY TO CLEANOUT)



**STANDARD CLEANOUT**  
NO SCALE



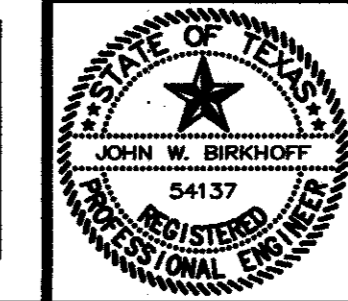
**STUBOUT CONNECTION FOR 6" & 8" LINES**  
NO SCALE



**STANDARD CLEANOUT**  
NO SCALE

REVISED TO CONFORM TO CONSTRUCTION RECORDS BY J.W.B. DATE 12/07/98

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.  
*John W. Birkhoff*  
DATE: 8/22/97



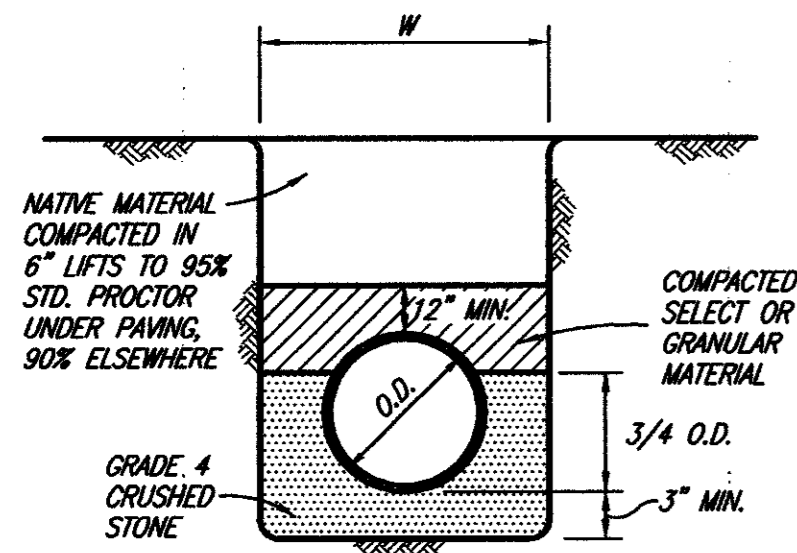
**TOWN OF ADDISON, TEXAS**  
ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT

**STANDARD DETAILS**

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

DESIGNED BY: S.J. & F. PROJECT: 96 169 SHEET NO. 23  
DRAWN BY: S.J. & F. DATE: FEBRUARY 1997 OF 24 SHEETS



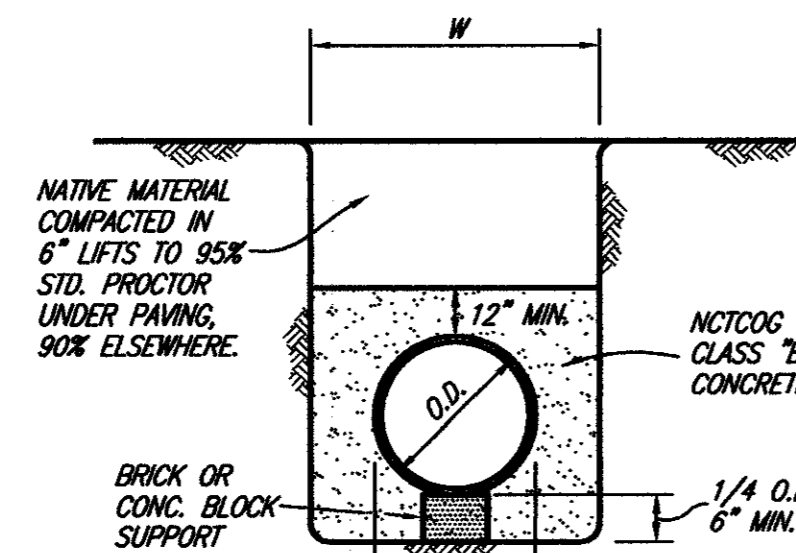


**CLASS B-1 EMBEDMENT**

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.

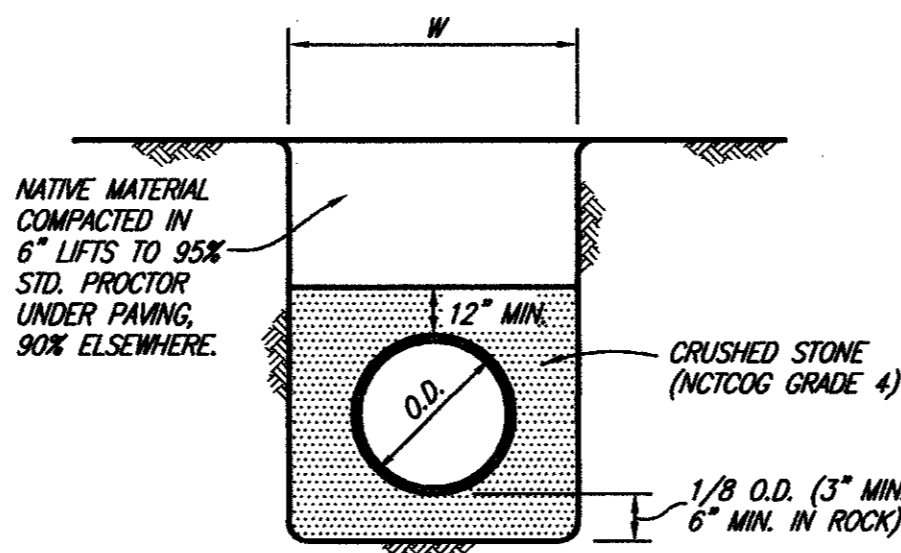


**CLASS G EMBEDMENT**

CONCRETE ENCASUREMENT

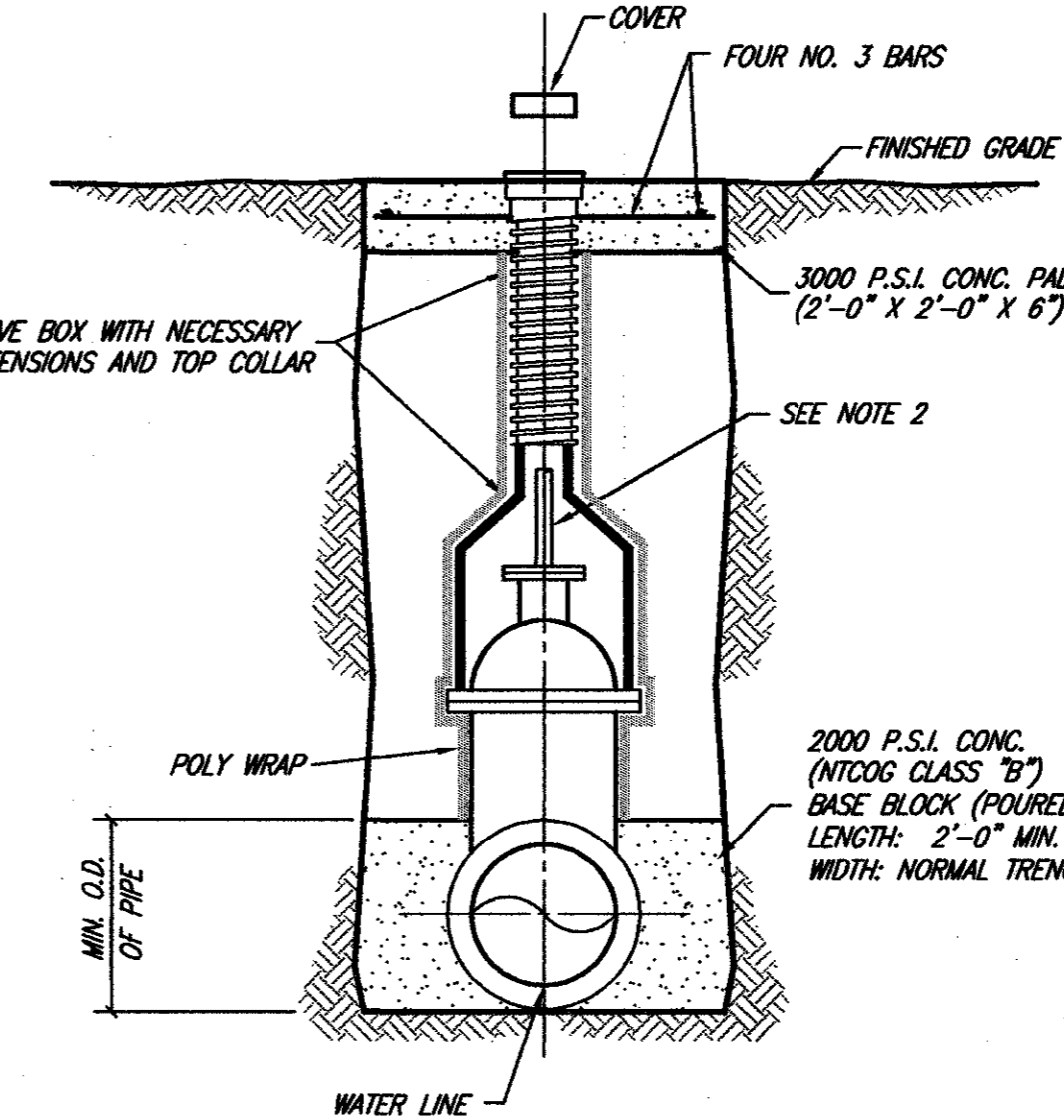
**NCTCOG GRADE 4 CRUSHED STONE:**

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



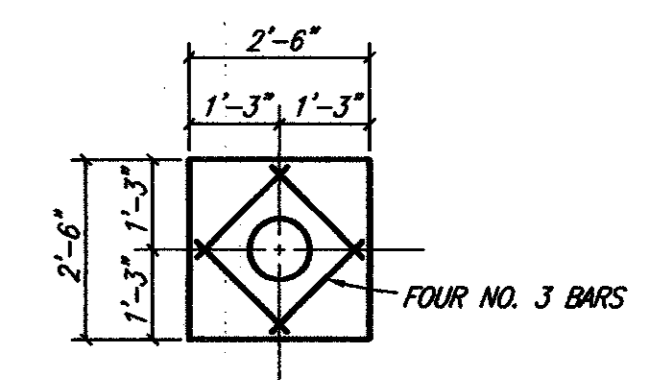
**CLASS H EMBEDMENT**

P.V.C. PIPE ONLY  
STD. P.V.C. SEWER



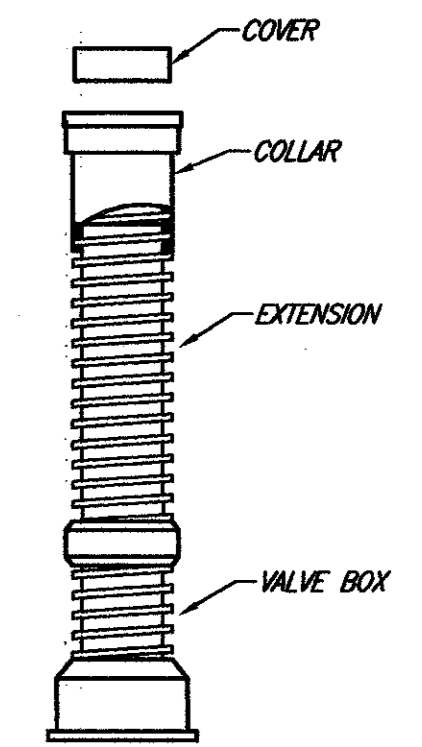
**VALVE SETTING & BOX**

NO SCALE



**VALVE BOX PAD PLAN**

NO SCALE

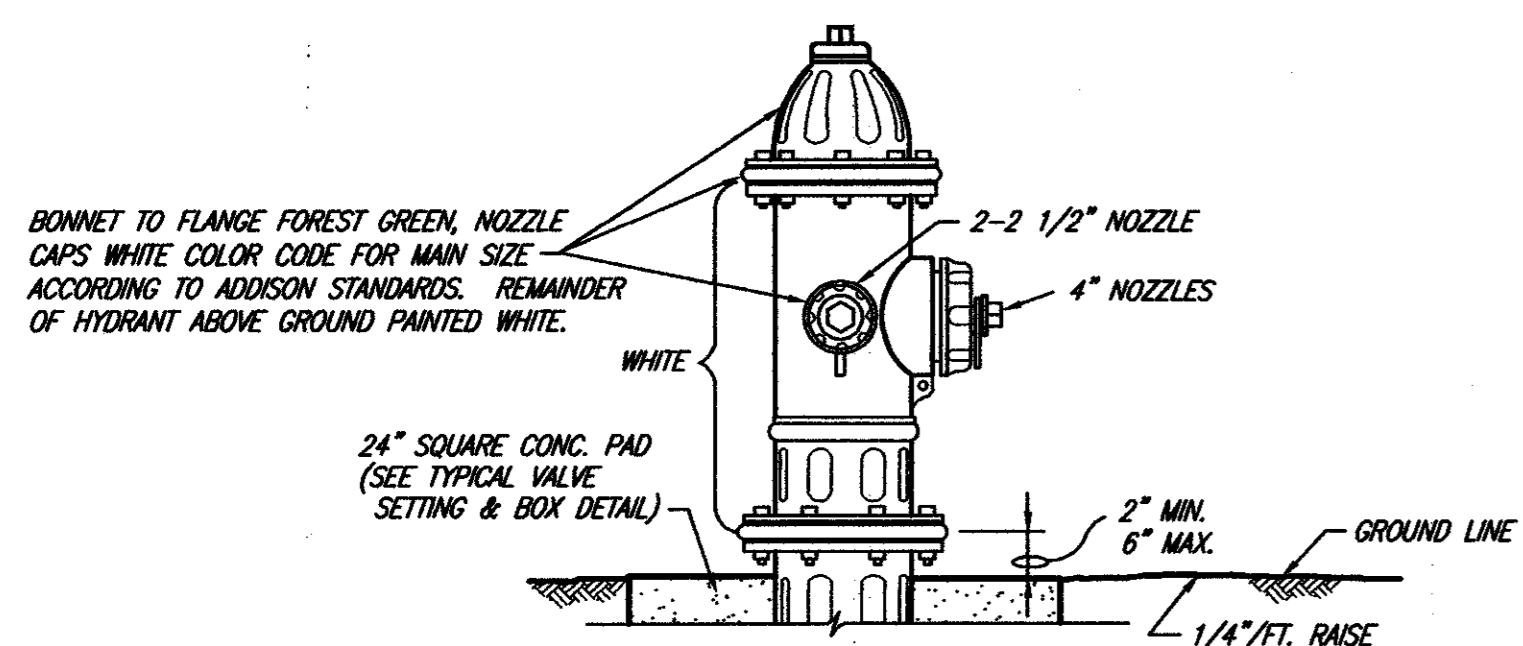


**VALVE BOX WITH EXTENSION**

NO SCALE

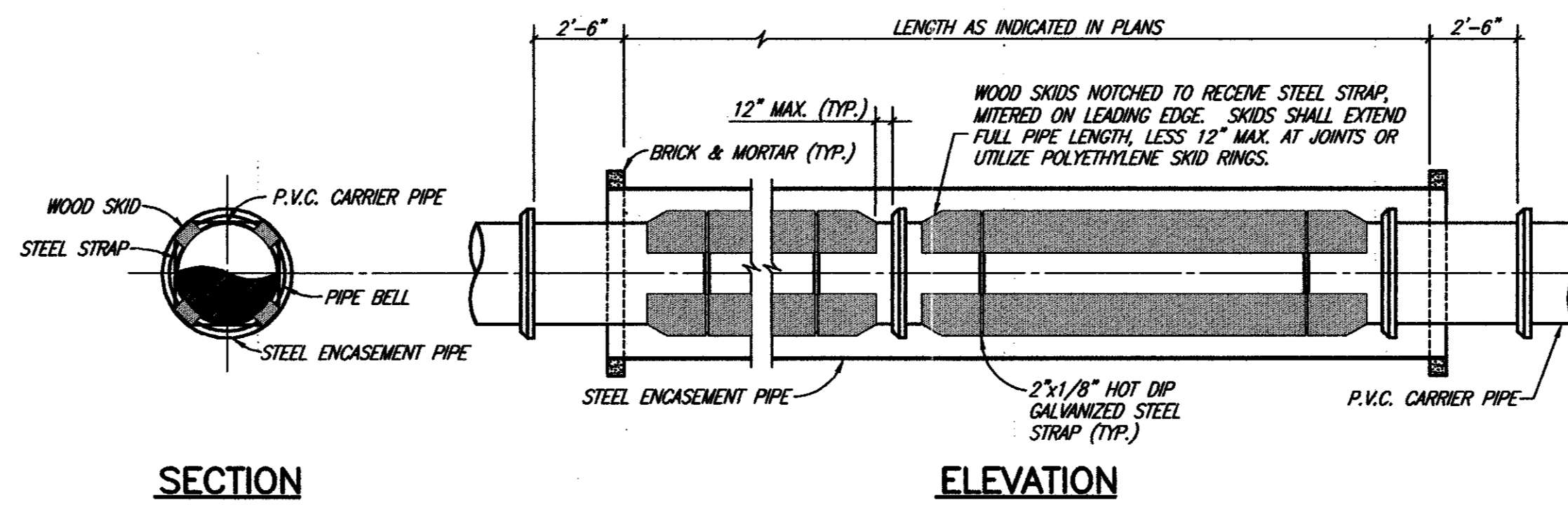
**WATER VALVE NOTES:**

- 4" TO 12" GATE VALVE SHALL BE RESILIENT SEATED WEDGE GATE VALVES ACCORDANCE WITH ANWA STANDARD C-508.
- 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.



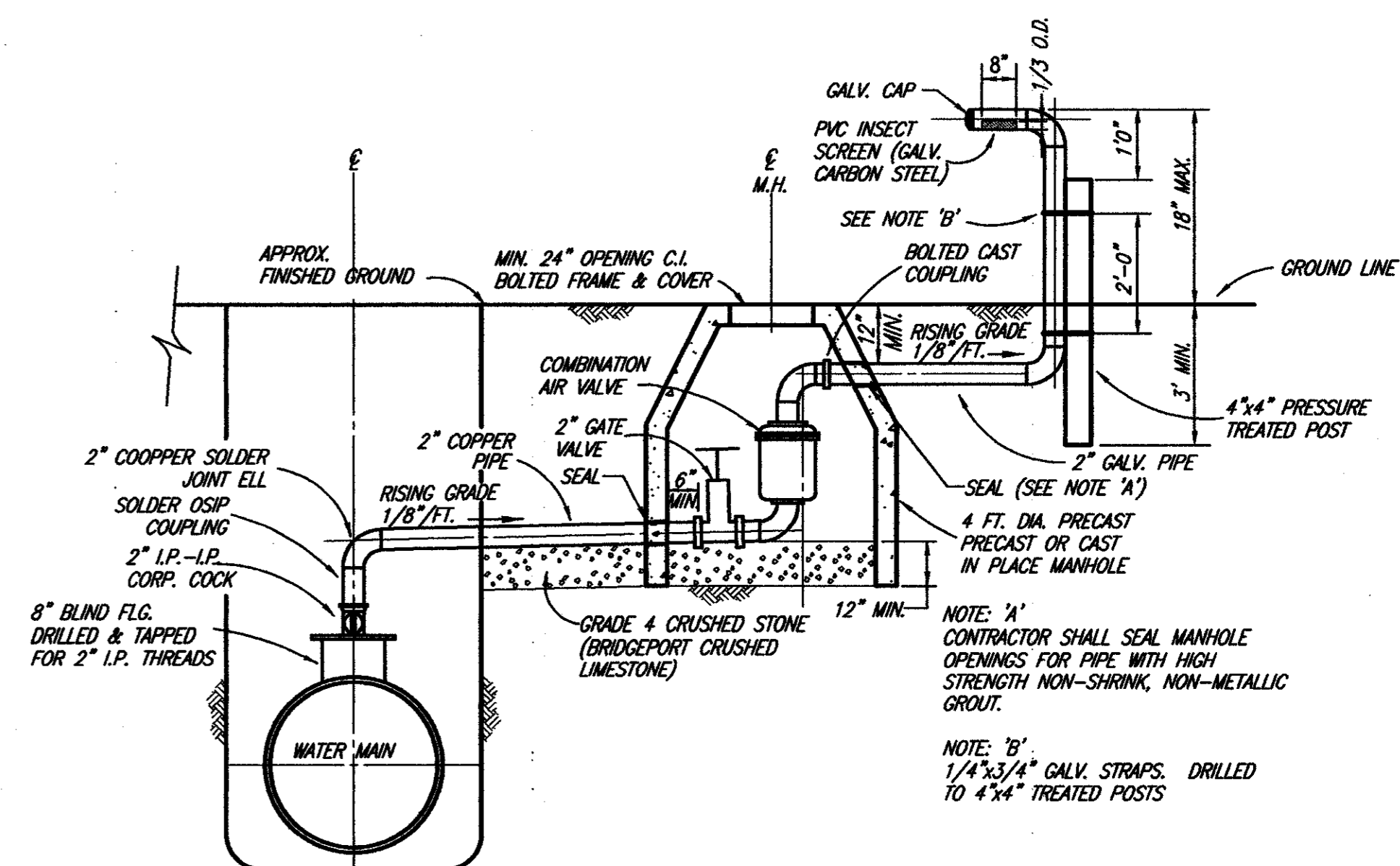
**TYPICAL FIRE HYDRANT INSTALLATION**

NO SCALE



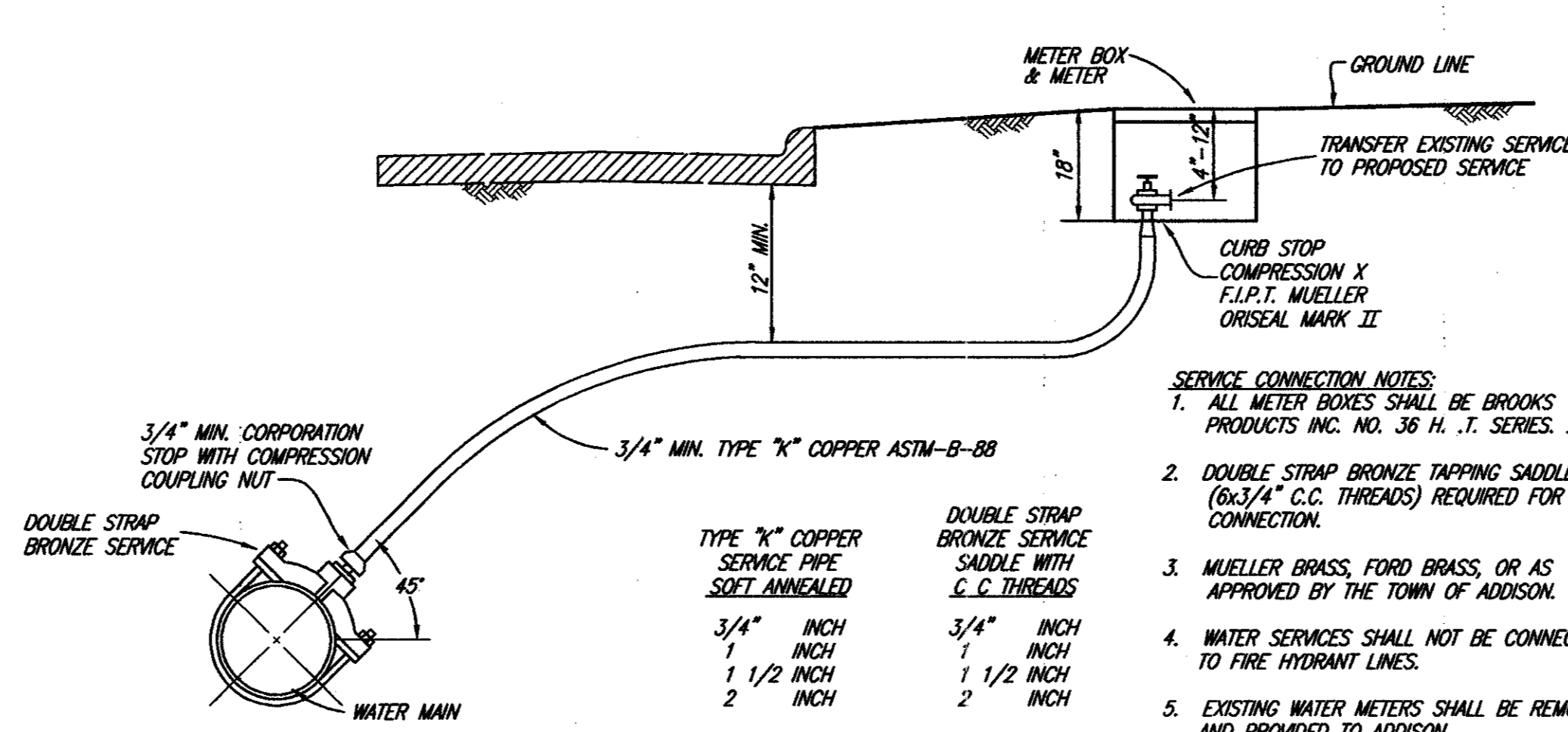
**ENCASED ROAD OR RAILROAD BORE**

NO SCALE



**TYPICAL AIR & VACUUM-AIR RELEASE VALVE WITH MANHOLE INSTALLATION**

NOT TO SCALE



**TYPICAL SERVICE CONNECTION WITH METER BOX**

NO SCALE

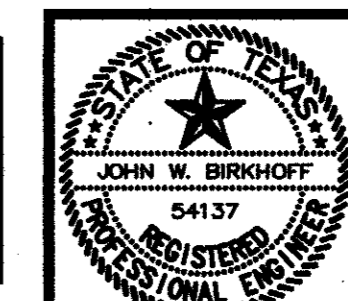
**SERVICE CONNECTION NOTES:**

- ALL METER BOXES SHALL BE BROOKS PRODUCTS INC. NO. 36 H. T. SERIES. I
- DOUBLE STRAP BRONZE TAPPING SADDLE (6x3/4" C.C. THREADS) REQUIRED FOR CONNECTION.
- MUELLER BRASS, FORD BRASS, OR AS APPROVED BY THE TOWN OF ADDISON.
- WATER SERVICES SHALL NOT BE CONNECTED TO FIRE HYDRANT LINES.
- EXISTING WATER METERS SHALL BE REMOVED AND PROVIDED TO ADDISON.
- ACTUAL LOCATION OF METERS SHALL BE DETERMINED IN THE FIELD BY THE ADDISON INSPECTOR.

TYPE 7" COPPER SERVICE PIPE SOFT ANNEALED	DOUBLE STRAP BRONZE SERVICE SADDLE WITH C.C. THREADS
3/4" INCH	3/4" INCH
1" INCH	1" INCH
1 1/2" INCH	1 1/2" INCH
2" INCH	2" INCH

REVISED TO CONFORM TO CONSTRUCTION RECORDS BY J.W.B. DATE 12/07/98

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.  
*John W. Bullard*  
DATE: 9/5/97



**TOWN OF ADDISON, TEXAS**  
ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT  
**STANDARD DETAILS**  
SHIMEK, JACOBS & FINKLEA, L.L.P.  
CONSULTING ENGINEERS  
Dallas, Texas  
DESIGNED BY: S.J. & F. PROJECT: 96 169 SHEET NO. 24  
DRAWN BY: S.J. & F. DATE: FEBRUARY 1997 OF 24 SHEETS