

Merry Hills  
York Dr.

# HARSHMAN ROAD, KEN - DALE MANOR ADDITION AND STATE ROAD 132 SANITARY SEWER PROJECT

PROJECT FOR THE  
FALL CREEK REGIONAL WASTE DISTRICT  
MADISON CO., IN.

1998  
SRF PROJECT NO. CS 18207701  
DIVISION II  
CONTRACT 'E'  
JOE ROWLETT - GENERAL MANAGER

## SHEET INDEX

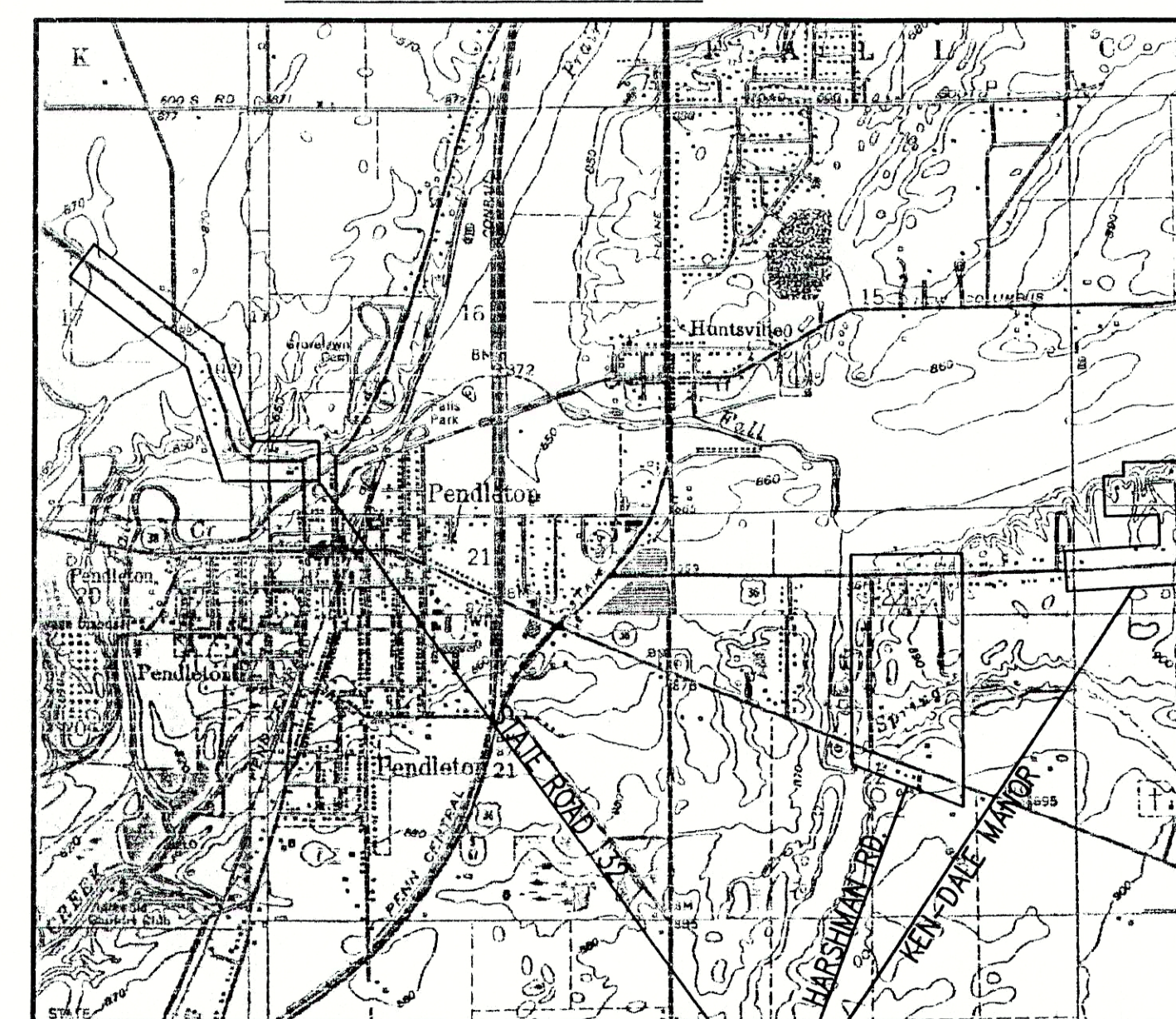
SHEET NO.	DESCRIPTION
1	TITLE SHEET AND INDEX
2-4	PROJECT BASE MAP
5-9	PLAN AND PROFILES FOR HARSHMAN ROAD
10-12	PLAN AND PROFILES FOR KEN - DALE MANOR ADDITION
13-17	PLAN AND PROFILES FOR STATE ROAD 132
18-19	STANDARD SANITARY DETAILS

AREA MAP



AREA  
LOCATION

LOCATION MAP



PROJECT  
LOCATION

## FALL CREEK REGIONAL WASTE DISTRICT BOARD

Mr. William Clark - President  
Mr. Morris McCurdy - Member  
Mr. Doug McGee - Member  
Mr. Mark Jablonski - Member  
Mr. Agon Tolbert - Member  
Mr. Dallas Foster - Member  
Mr. Jack Kasdorf - Member  
Mr. Timothy Green - Member  
Mr. John Ellingwood - Member  
Mr. Joe Rowlett - General Manager

## ATTORNEY

Mr. Randall Sorrell

## PLANS PREPARED BY:

**TRIAD**  
ASSOCIATES  
INC.  
INDIANAPOLIS, INDIANA

NOTE:  
ADDITIONAL RIGHT-OF-WAY OR EASEMENTS MAY  
NEED TO BE ACQUIRED FOR INSTALLATION OF SEWER.



DON'T DIG BLIND  
CALL BEFORE YOU DIG  
1-800-382-5544  
1-800-428-5200

PER INDIANA STATE LAW IS-69-1991, IT IS  
AGAINST THE LAW TO EXCAVATE WITHOUT  
NOTIFYING THE UNDERGROUND LOCATION SERVICE  
TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

NOTE: CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS  
PRIOR TO THE START OF CONSTRUCTION

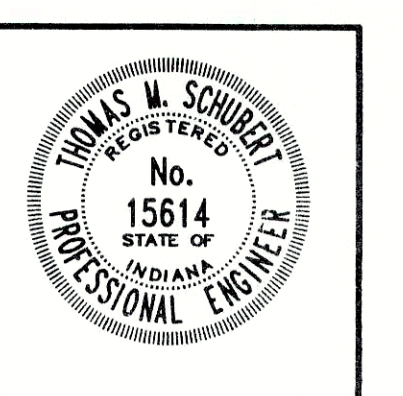
## THESE PLANS CERTIFIED BY:

James W. Frazell, Professional Engineer

**RECORD DRAWING**

February 15, 2001

Thomas M. Schubert, Professional Engineer





# RECORD DRAWING

February 15, 2001

## LEGEND:

- EXISTING SANITARY SEWER
- EXISTING SANITARY MANHOLE
- PROPOSED SANITARY MANHOLE
- PROPOSED SANITARY SEWER
- PROPOSED SANITARY FORCEMAIN
- PROPOSED SERVICE CONNECTION
- VALVE VAULT
- 5 SHEET DESIGNATION

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BASE MAP  
SCALE: 1" = 100'



NO.	DATE	DESCRIPTION	BY

**TRIAD**  
**ASSOCIATES**  
**INC.**  
INDIANAPOLIS, INDIANA

APPROVED BY:  
  
Thomas M. Schubert, P.E.

HARSHMAN ROAD - ANN AVENUE FALL CREEK REGIONAL WASTE DISTRICT			
BASE MAP			
DRAWN BY:	DATE	PROJECT No.	SHEET No.
DAP	04/12/98	98008A	2
DESIGNED BY:	SCALE	AS NOTED	OF
D.A. Pauling			21
CHECKED BY:	James W. Frazell, P.E.		

## TBM INFORMATION

HAR-TBM #1 - NORTH RIM OF FALL CREEK REGIONAL WASTE  
DISTRICT MANHOLE No. 169 ON SOUTHEAST CORNER  
OF U.S. 36 AND CO. RD. 250W ELEV. - 860.66

HAR-TBM #2 - NORTH RIM OF FALL CREEK REGIONAL WASTE  
DISTRICT MANHOLE No. 170 ON SOUTHEAST CORNER  
OF U.S. 36 AND ANN AVENUE ELEV. - 867.26

## UTILITIES

PSI Energy  
P.O. Box 312  
100 Mill Creek Rd.  
Noblesville, IN 46060

Indiana Gas Company, Inc.  
2001 Louis Street  
Anderson, IN 46016

GTE  
P.O. Box 1406  
Richmond, IN 47374

Madison County Highway Dept.  
2830 W. 8th Street  
Anderson, IN 46011

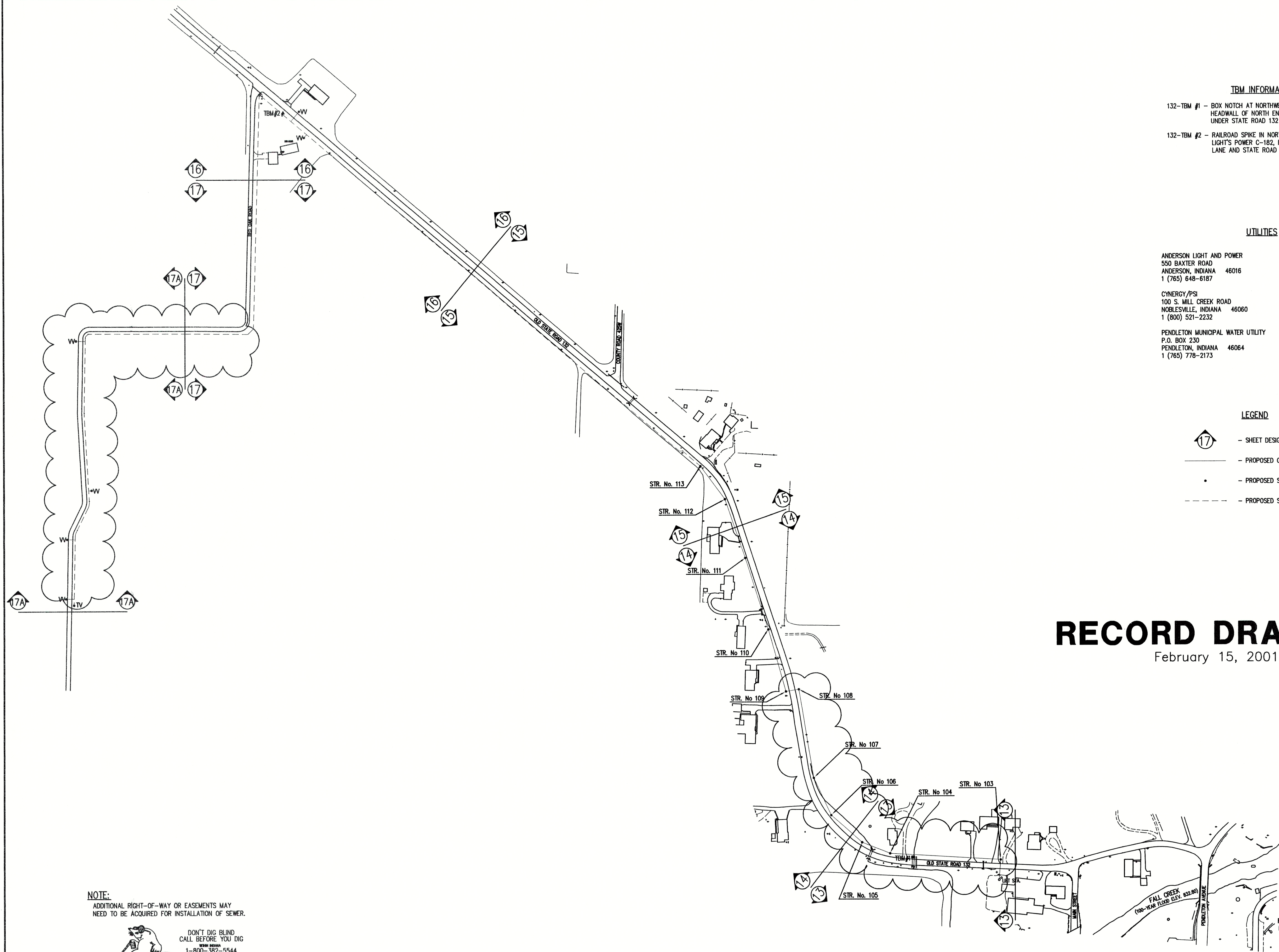
T.C.I. Cable Television  
633 Jackson Street  
Pendleton, IN 46064

I.N.D.O.T. - Greenfield District  
P.O. Box 667  
Greenfield, IN 46140-0667









**TBM INFORMATION**

- 132-TBM #1 - BOX NOTCH AT NORTHWEST CORNER OF WEST HEADWALL OF NORTH END OF CONCRETE CULVERT UNDER STATE ROAD 132 ELEV. - 838.40
- 132-TBM #2 - RAILROAD SPIKE IN NORTH SIDE OF POWERPOLE PEND LIGHT'S POWER C-182, POLE JUST SOUTH OF RED OAKS LANE AND STATE ROAD 132 ELEV. - 870.43

**UTILITIES**

- ANDERSON LIGHT AND POWER  
550 BAXTER ROAD  
ANDERSON, INDIANA 46016  
1 (765) 648-6187
- GTE  
P.O. BOX 1406  
RICHMOND, INDIANA 47375  
1 (800) 483-5600
- CYNERGY/PSI  
100 S. MILL CREEK ROAD  
NOBLESVILLE, INDIANA 46060  
1 (800) 521-2232
- INDIANA GAS COMPANY, INC.  
2001 LOUISE STREET  
ANDERSON, INDIANA 46016  
1 (800) 777-2060
- PENDLETON MUNICIPAL WATER UTILITY  
P.O. BOX 230  
PENDLETON, INDIANA 46064  
1 (765) 778-2173
- TCI OF CENTRAL INDIANA  
335 E. 10th STREET  
ANDERSON, INDIANA 46016  
1 (765) 649-0407

**LEGEND**

- 17 - SHEET DESIGNATION
- PROPOSED GRAVITY SEWER
- - PROPOSED SANITARY MANHOLE
- - - - - PROPOSED SANITARY FORCEMAIN

# RECORD DRAWING

February 15, 2001

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INDIANA  
1-800-382-5544  
OUTSIDE INDIANA  
1-800-428-5200

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PRIOR TO THE START OF CONSTRUCTION

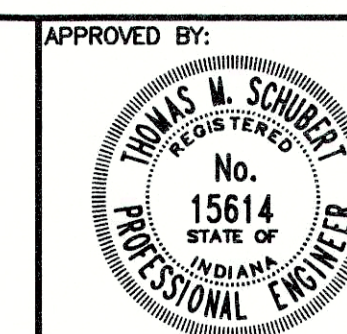


GROUND CONTROL FOR THIS SITE WAS RUN BY  
ACCU-AIR SURVEYS, INC.  
THE VERTICAL CONTROL IS TIED INTO NAVD 88 DATUM.  
THE HORIZONTAL CONTROL IS LOCAL ASSUMED

FILE NAME: SRD132_SR-RD		PLOT SCALE: 1=125	PLOT DATE: 11/14
NO.	DATE	DESCRIPTION	BY

**TRIAD**  
**ASSOCIATES**  
**INC.**

INDIANAPOLIS, INDIANA

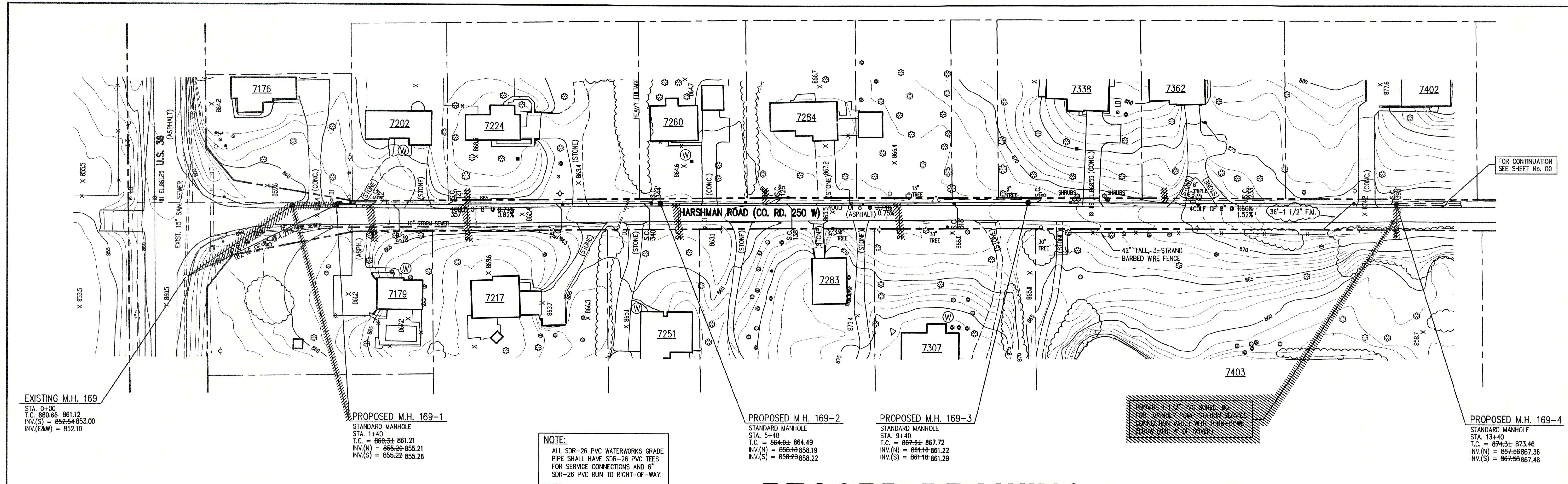


Thomas M. Schubert, P.E.

OLD STATE ROAD No. 132 FALL CREEK REGIONAL WASTE DISTRICT			
PROJECT BASE MAP			
DRAWN BY:	DATE	PROJECT No.	SHEET No.
DAP	04/12/98	98008A	4
DESIGNED BY:	D.A. Pauling		
CHECKED BY:	James W. Frazell, P.E.		

19





# RECORD DRAWING

February 15, 2001

## GENERAL NOTES:

- CONTRACTOR SHALL FIELD VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL VISIT THE SITE PRIOR TO PLACING BID TO BECOME FAMILIAR WITH EXISTING CONDITIONS.
- CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO AT LEAST PRE-CONSTRUCTION CONDITIONS.
- ALL PROPOSED MANHOLE CASTING ELEVATIONS SHOWN ARE APPROXIMATE AND FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTING CASTINGS FLUSH WITH FINISH GRADE OR STREET GRADE. CASTINGS LOCATED IN DRAINAGE DITCHES SHALL BE SET HIGHER THAN INVERT OF DRAINAGE DITCH.
- CONTRACTOR SHALL MAINTAIN A SEPARATION BETWEEN EXISTING WATER LINES AND SEWERS OF 18" VERTICALLY AND 10'-0" HORIZONTALLY. PRESSURE RATED SEWER PIPE AS SPECIFIED SHALL BE USED WHEN THIS SEPARATION CAN'T BE MAINTAINED.
- FULL DEPTH COMPACTED GRANULAR FILL SHALL BE USED UNDER ALL PAVEMENT (I.E. DRIVES, WALKS, STREETS, ETC.) OR WHEN SEWER TRENCH IS WITHIN 3 FEET OF PAVEMENT. ALL PAVEMENT CROSSINGS REQUIRE SAW CUTTING.
- CONTRACTOR SHALL PROVIDE EACH HOUSE OR BUSINESS IN THE SERVICE AREA WITH A 6-INCH PVC SDR-35 OR SDR-26 WATERWORKS GRADE SERVICE CONNECTION, TO THE RIGHT-OF-WAY LINE. THE CONTRACTOR SHALL COORDINATE THE SERVICE LOCATION WITH THE PROPERTY OWNER.
- CONTRACTOR SHALL GRADE ALL DISTURBED AREAS TO ALLOW PROPER DRAINAGE AND PROVIDE SEED AND STRAW IN LAWN AREAS.
- CONTRACTOR SHALL PROTECT OR REINSTALL ALL DISTURBED MAILBOXES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING AND/OR REPLACE EXISTING DRIVEWAY CULVERTS TO AT LEAST PRE-EXISTING CONDITION.

NOTE:  
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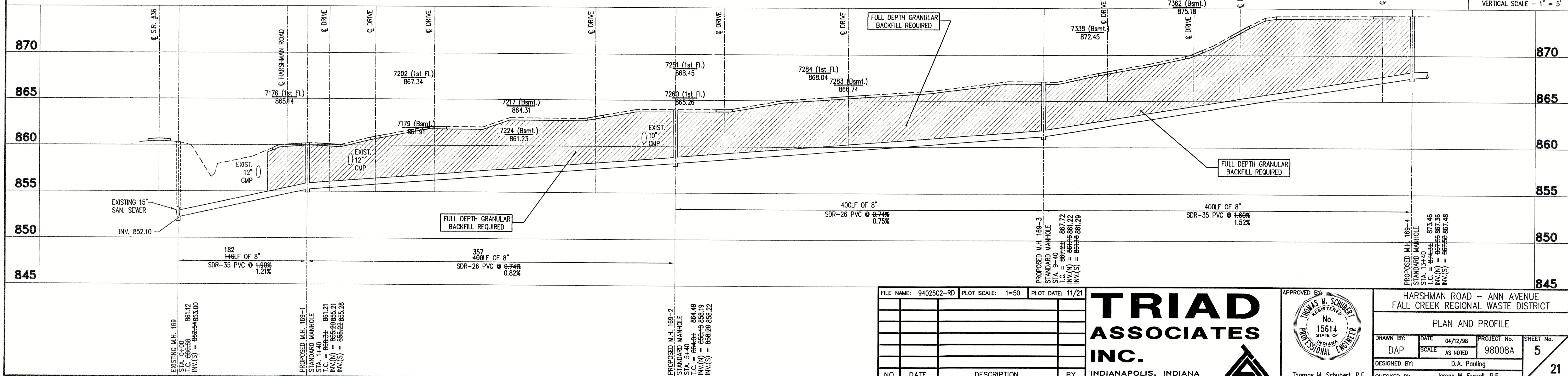
DON'T DIG BLIND  
CALL BEFORE YOU DIG  
1-800-382-5544  
1-800-428-5200

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NOTE: CONTR/CTOR TO VERIFY ALL UTILITY LOCATIONS  
PRIOR TO THE START OF CONSTRUCTION

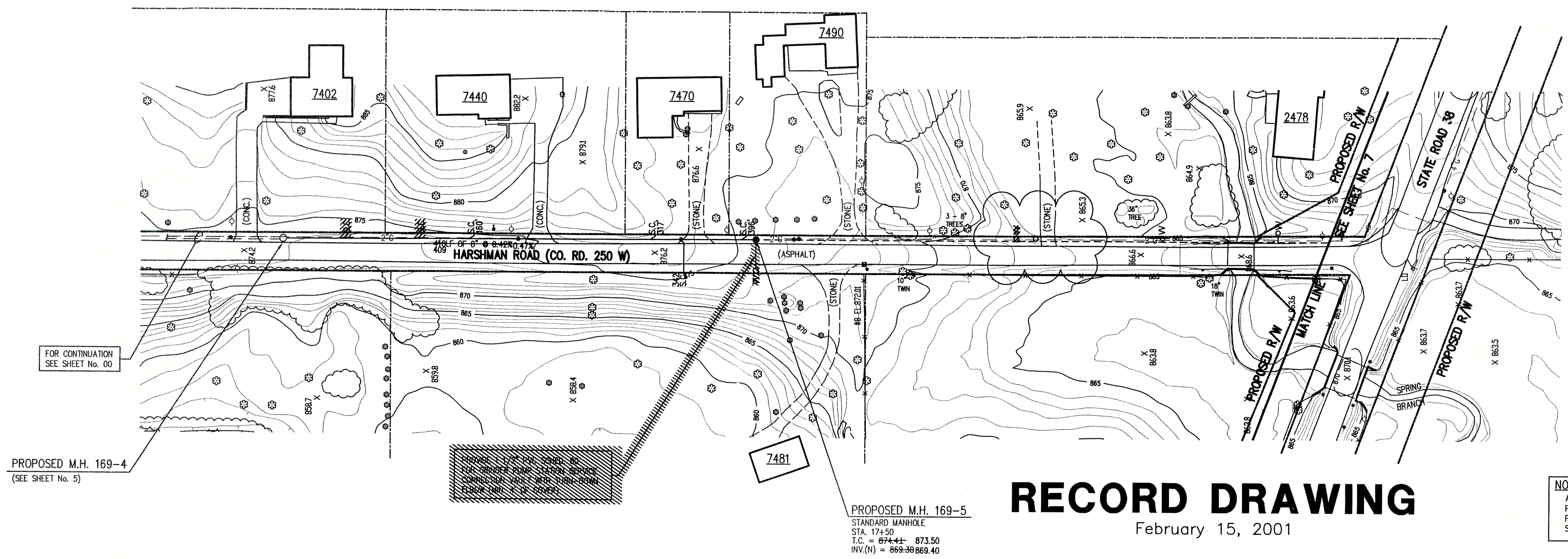
---	EXISTING STORM DRAINAGE	---	W ---	WATER LINE
○	EXISTING TREE OR SHRUB	---	2" G ---	GAS LINE
●	PROPOSED SANITARY MANHOLE	---	---	EXISTING UTILITY POLE W/GUY
---	PROPOSED SANITARY SEWER	---	---	EXISTING UTILITY POLE
---	EXISTING SIGN	---	---	WATER WELL
---	EXISTING MAILBOX	---	---	EXISTING FENCE LINE
---	APPROXIMATE RIGHT OF WAY LINE	---	---	EXISTING ELECTRIC TRANSFORMER
---	APPROXIMATE PROPERTY LINE	---	---	PROPOSED GRINDER PUMP VALVE VAULT
---	PROPOSED PRESSURE LINE	---	---	
TV ---	PROPOSED TERMINAL VALVE VAULT			



SCALE  
HORIZONTAL SCALE - 1" = 50'  
VERTICAL SCALE - 1" = 5'







# RECORD DRAWING

February 15, 2001

NOTE:  
ALL SDR-26 PVC WATERWORKS GRADE PIPE SHALL HAVE SDR-26 PVC TEES FOR SERVICE CONNECTIONS AND 6" SDR-26 PVC RUN TO RIGHT-OF-WAY.

NOTE:  
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NOTE: CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO THE START OF CONSTRUCTION

## GENERAL NOTES:

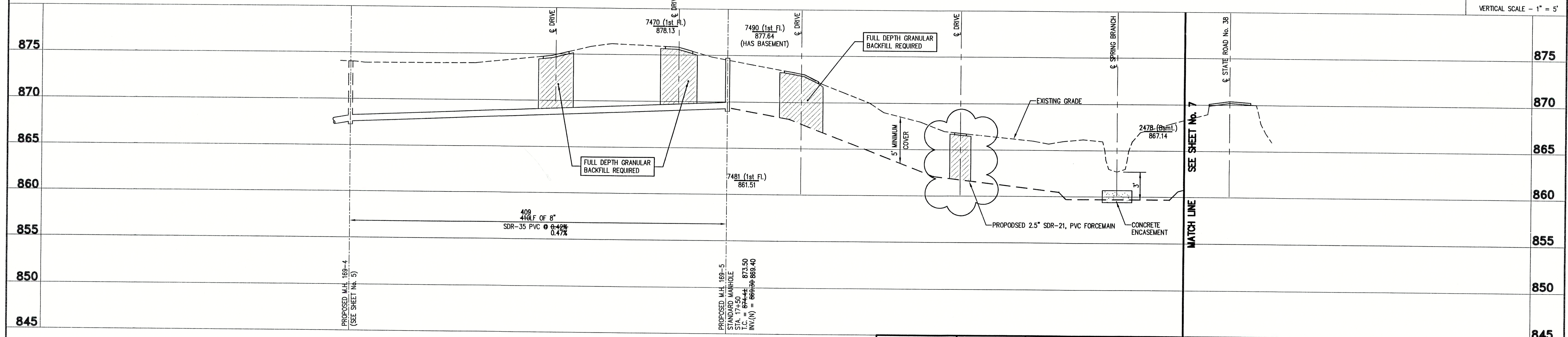
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## LEGEND:

- EXISTING STORM DRAINAGE
- EXISTING TREE OR SHRUB
- PROPOSED SANITARY MANHOLE
- PROPOSED SANITARY SEWER
- EXISTING SIGN
- EXISTING MAILBOX
- APPROXIMATE RIGHT OF WAY LINE
- APPROXIMATE PROPERTY LINE
- PROPOSED PRESSURE LINE
- PROPOSED TERMINAL VALVE VAULT
- WATER LINE
- GAS LINE
- EXISTING UTILITY POLE W/GUY
- EXISTING UTILITY POLE
- WATER WELL
- EXISTING FENCE LINE
- EXISTING ELECTRIC TRANSFORMER
- PROPOSED GRINDER PUMP VALVE VAULT



SCALE  
HORIZONTAL SCALE - 1" = 50'  
VERTICAL SCALE - 1" = 5'



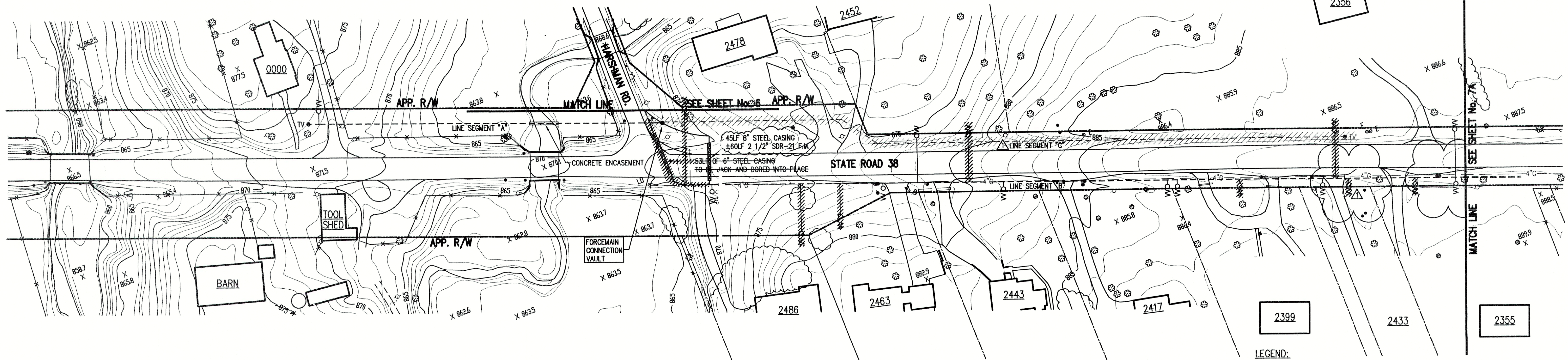
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NO.	DATE	DESCRIPTION	BY

**TRIAD ASSOCIATES INC.**  
INDIANAPOLIS, INDIANA

APPROVED BY:  
**THOMAS M. SCHUBERT**  
REGISTERED PROFESSIONAL ENGINEER  
No. 15614  
STATE OF INDIANA

HARSHMAN ROAD - ANN AVENUE FALL CREEK REGIONAL WASTE DISTRICT			
PLAN AND PROFILE			
DRAWN BY: DAP	DATE: 04/12/98	PROJECT No. 98008A	SHEET No. 6
DESIGNED BY: D.A. Pauling		CHECKED BY: James W. Frazell, P.E.	
Thomas M. Schubert, P.E.		21	





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BEFORE DIGGING  
1-800-382-5544  
AFTER DIGGING  
1-800-428-5200

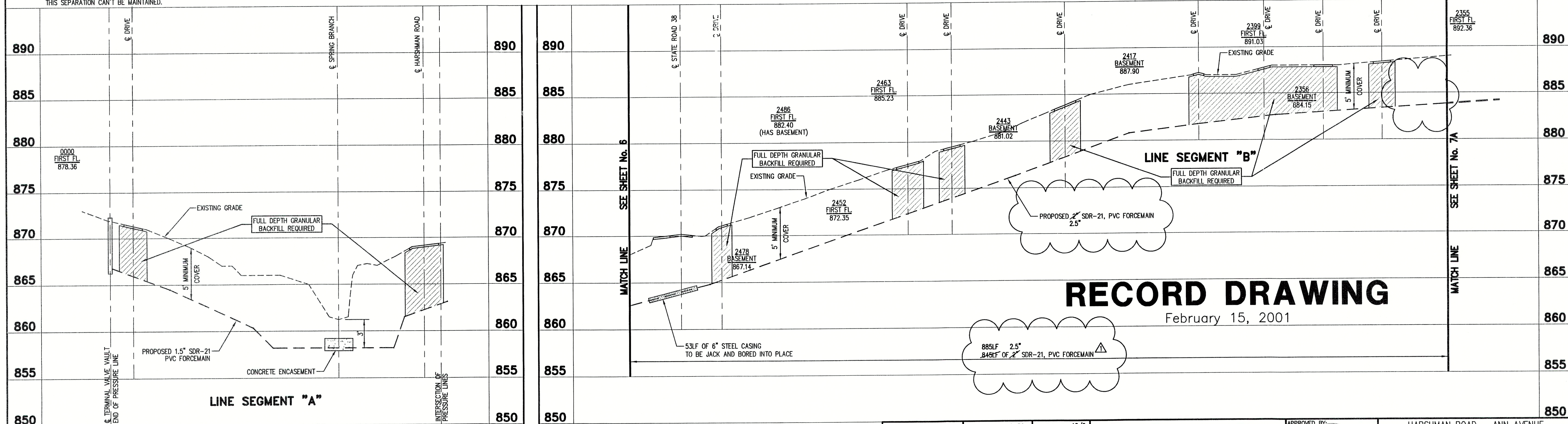
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---	EXISTING STORM DRAINAGE	---	W	---	WATER LINE
○	EXISTING TREE OR SHRUB	---	2"G	---	GAS LINE
●	PROPOSED SANITARY MANHOLE	○		---	EXISTING UTILITY POLE W/GUY
---	PROPOSED SANITARY SEWER	○		---	EXISTING UTILITY POLE
---	EXISTING SIGN	○		---	WATER WELL
---	EXISTING MAILBOX	○		---	EXISTING FENCE LINE
---	APPROXIMATE RIGHT OF WAY LINE	○		---	EXISTING ELECTRIC TRANSFORMER
---	APPROXIMATE PROPERTY LINE	○		---	PROPOSED GRINDER PUMP VALVE VAULT
---	PROPOSED PRESSURE LINE	○		---	
TV	PROPOSED TERMINAL VALVE VAULT	WO		---	



HORIZONTAL SCALE - 1" = 50'  
VERTICAL SCALE - 1" = 5'

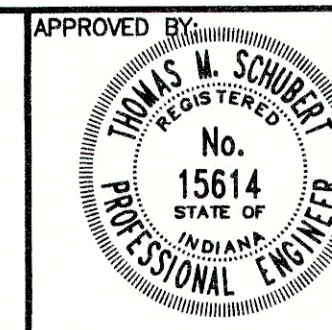


# RECORD DRAWING

February 15, 2001

FILE NAME:	94025C5R-RD	PLOT SCALE:	1=50	PLOT DATE:	12/6
DATE:	05/24/99	REMOVED LINE SEG. 'C', ADDED 5 V.V.'s	D.A.P.		
NO.	DATE	DESCRIPTION	BY		

**TRIAD ASSOCIATES INC.**  
INDIANAPOLIS, INDIANA

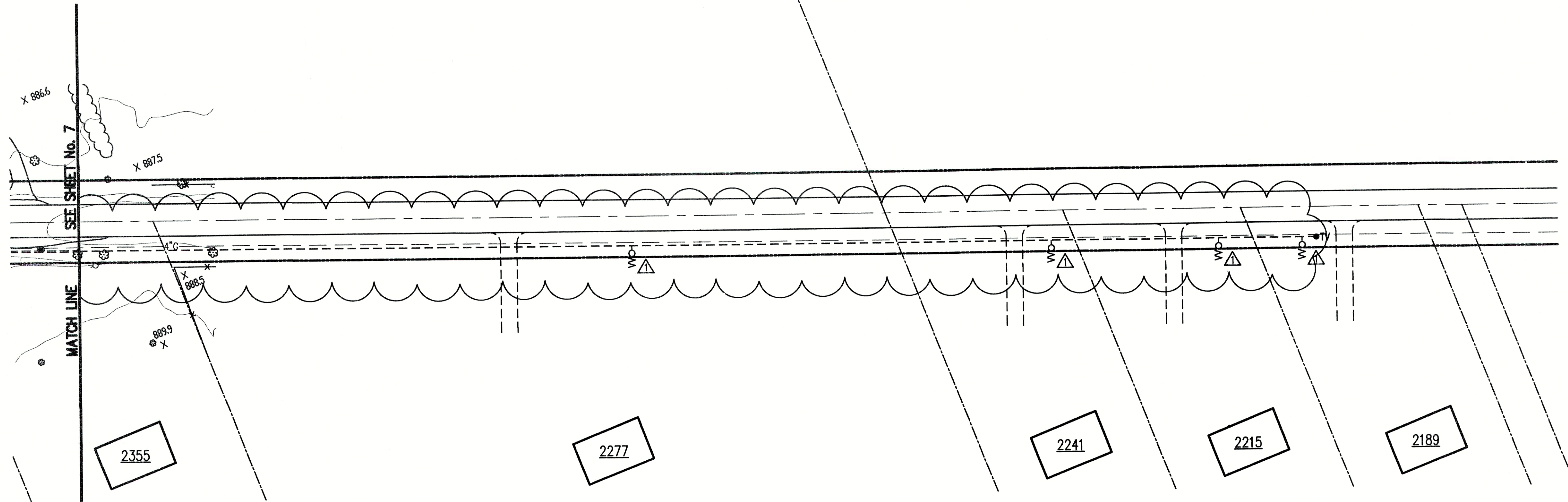


Thomas M. Schubert, P.E.

HARSHMAN ROAD - ANN AVENUE FALL CREEK REGIONAL WASTE DISTRICT			
PLAN AND PROFILE			
DRAWN BY:	DATE	PROJECT No.	SHEET No.
DAP	04/12/98	98008A	7
DESIGNED BY:	D.A. Pauling		
CHECKED BY:	James W. Frazell, P.E.		

21





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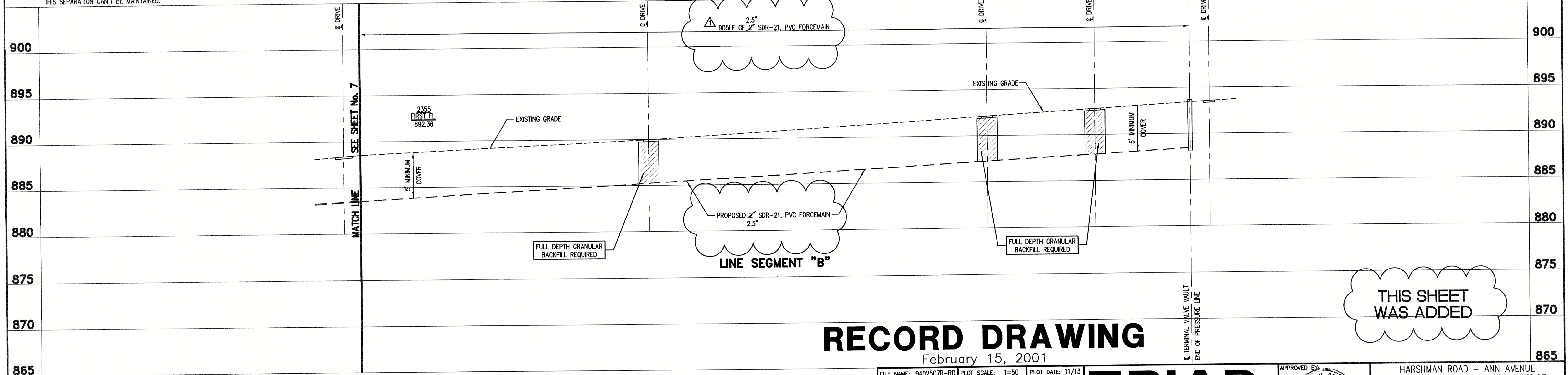
NOTE: CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO THE START OF CONSTRUCTION

#### LEGEND:

- |     |                               |     |      |     |                                   |
|-----|-------------------------------|-----|------|-----|-----------------------------------|
| --- | EXISTING STORM DRAINAGE       | --- | W    | --- | WATER LINE                        |
| ●   | EXISTING TREE OR SHRUB        | --- | 2" G | --- | GAS LINE                          |
| ●   | PROPOSED SANITARY MANHOLE     | ●   |      | --- | EXISTING UTILITY POLE W/GUY       |
| --- | PROPOSED SANITARY SEWER       | ⚡   |      | --- | EXISTING UTILITY POLE             |
| --- | EXISTING SIGN                 | ⊙   |      | --- | WATER WELL                        |
| --- | EXISTING MAILBOX              | ×   |      | --- | EXISTING FENCE LINE               |
| --- | APPROXIMATE RIGHT OF WAY LINE | ⊠   |      | --- | EXISTING ELECTRIC TRANSFORMER     |
| --- | APPROXIMATE PROPERTY LINE     | W   | ○    | --- | PROPOSED GRINDER PUMP VALVE VAULT |
| --- | PROPOSED PRESSURE LINE        |     |      |     |                                   |
| TV  | PROPOSED TERMINAL VALVE VAULT |     |      |     |                                   |




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VERTICAL SCALE - 1" = 5'

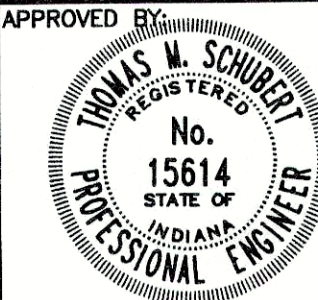


## RECORD DRAWING

February 15, 2001

FILE NAME: 9402507R-RD		PLOT SCALE: 1=50		PLOT DATE: 11/13	
	05/24/99	REMOVED LINE SEG. 'C', ADDED 3 V.V.'s			D.A.P.
NO	DATE	DESCRIPTION			BY

**TRIAD ASSOCIATES INC.**  
INDIANAPOLIS, INDIANA



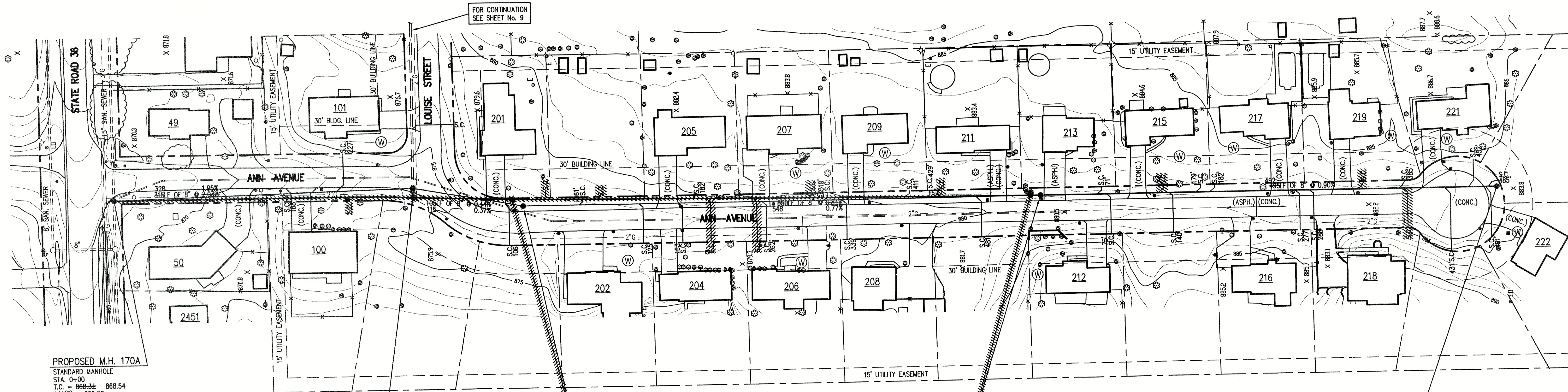
Thomas M. Schubert, P.E.

HARSHMAN ROAD - ANN AVENUE  
FALL CREEK REGIONAL WASTE DISTRICT

#### PLAN AND PROFILE

DRAWN BY: DAP	DATE: 04/12/98	PROJECT No. 98008A	SHEET No. 7A
DESIGNED BY: D.A. Pauling	CHECKED BY: James W. Frazell, P.E.		21





PROPOSED M.H. 170A  
STANDARD MANHOLE  
STA. 0+00  
T.C. = 868.34  
INV.(E) = 859.72  
INV.(W) = 859.62  
INV.(S) = 861.61

PROPOSED M.H. 170A-1  
STANDARD MANHOLE  
STA. 3+15  
T.C. = 874.34  
INV.(N) = 868.00  
INV.(S) = 868.02  
INV.(E) = 870.11

PROPOSED M.H. 170A-2  
STANDARD MANHOLE  
STA. 4+10  
T.C. = 877.04  
INV.(N) = 868.48  
INV.(S) = 868.90

PROPOSED M.H. 170A-3  
STANDARD MANHOLE  
STA. 9+70  
T.C. = 881.02  
INV.(N) = 873.12  
INV.(S) = 873.17

PROPOSED M.H. 170A-4  
STANDARD MANHOLE  
STA. 14+30  
T.C. = 883.70  
INV.(N) = 877.60

#### GENERAL NOTES:

- CONTRACTOR SHALL FIELD VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL VISIT THE SITE PRIOR TO PLACING BID TO BECOME FAMILIAR WITH EXISTING CONDITIONS.
- CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO AT LEAST PRE-CONSTRUCTION CONDITIONS.
- ALL PROPOSED MANHOLE CASTING ELEVATIONS SHOWN ARE APPROXIMATE AND FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTING CASTINGS FLUSH WITH FINISH GRADE OR STREET GRADE. CASTINGS LOCATED IN DRAINAGE DITCHES SHALL BE SET HIGHER THAN INVERT OF DRAINAGE DITCH.
- CONTRACTOR SHALL MAINTAIN A SEPARATION BETWEEN EXISTING WATER LINES AND SEWERS OF 18" VERTICALLY AND 10'-0" HORIZONTALLY. PRESSURE RATED SEWER PIPE AS SPECIFIED SHALL BE USED WHEN THIS SEPARATION CAN'T BE MAINTAINED.
- FULL DEPTH COMPACTED GRANULAR FILL SHALL BE USED UNDER ALL PAVEMENT (I.E. DRIVES, WALKS, STREETS, ETC.) OR WHEN SEWER TRENCH IS WITHIN 3 FEET OF PAVEMENT. ALL PAVEMENT CROSSINGS REQUIRE SAW CUTTING.
- CONTRACTOR SHALL PROVIDE EACH HOUSE OR BUSINESS IN THE SERVICE AREA WITH A 6-INCH PVC SDR-35 OR SDR-26 WATERWORKS GRADE SERVICE CONNECTION, TO THE RIGHT-OF-WAY LINE. THE CONTRACTOR SHALL COORDINATE THE SERVICE LOCATION WITH THE PROPERTY OWNER.
- CONTRACTOR SHALL GRADE ALL DISTURBED AREAS TO ALLOW PROPER DRAINAGE AND PROVIDE SEED AND STRAW IN LAWN AREAS.
- CONTRACTOR SHALL PROTECT OR REINSTALL ALL DISTURBED MAILBOXES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING AND/OR REPLACE EXISTING DRIVEWAY CULVERTS TO AT LEAST PRE-EXISTING CONDITION.

#### LEGEND:

- — — — — EXISTING STORM DRAINAGE
- — — — — EXISTING TREE OR SHRUB
- — — — — PROPOSED SANITARY MANHOLE
- — — — — PROPOSED SANITARY SEWER
- — — — — EXISTING SIGN
- — — — — EXISTING MAILBOX
- — — — — APPROXIMATE RIGHT OF WAY LINE
- — — — — APPROXIMATE PROPERTY LINE
- — — — — PROPOSED PRESSURE LINE
- TV — — — — — PROPOSED TERMINAL VALVE VAULT
- W — — — — — WATER LINE
- 2" G — — — — — GAS LINE
- — — — — EXISTING UTILITY POLE W/GUY
- — — — — EXISTING UTILITY POLE
- W — — — — — WATER WELL
- — — — — EXISTING FENCE LINE
- — — — — EXISTING ELECTRIC TRANSFORMER
- W — — — — — PROPOSED GRINDER PUMP VALVE VAULT

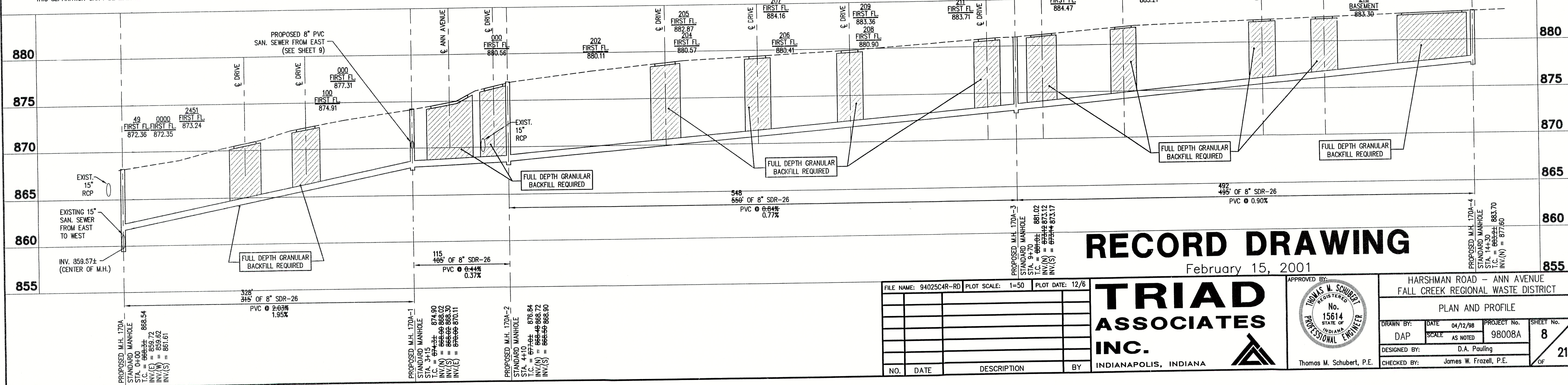
NOTE:  
ADDITIONAL RIGHT-OF-WAY OR EASEMENTS MAY  
NEED TO BE ACQUIRED FOR INSTALLATION OF SEWER.



DON'T DIG BLIND  
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1-800-382-5544  
1-800-428-5200

PER INDIANA STATE LAW 15-69-1991, IT IS  
AGAINST THE LAW TO EXCAVATE WITHOUT  
NOTIFYING THE UNDERGROUND LOCATION SERVICE  
TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

NOTE: CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS  
PRIOR TO THE START OF CONSTRUCTION



## RECORD DRAWING

February 15, 2001

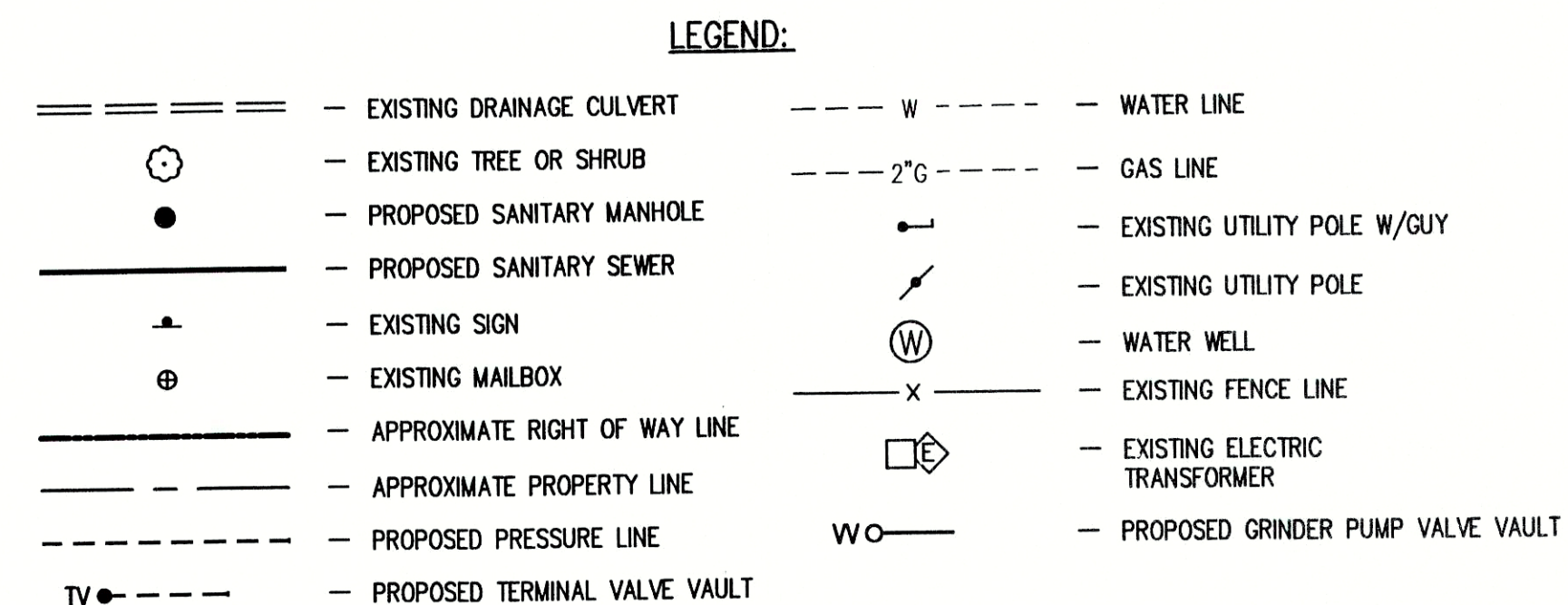
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NO.	DATE	DESCRIPTION	BY

**TRIAD ASSOCIATES INC.**  
INDIANAPOLIS, INDIANA


APPROVED BY:  
**THOMAS M. SCHUBERT**  
REGISTERED PROFESSIONAL ENGINEER  
No. 15614  
STATE OF INDIANA

HARSHMAN ROAD - ANN AVENUE FALL CREEK REGIONAL WASTE DISTRICT			
PLAN AND PROFILE			
DRAWN BY: DAP	DATE: 04/12/98	PROJECT No. 98008A	SHEET No. 8
DESIGNED BY: D.A. Pauling	CHECKED BY: James W. Frazell, P.E.	OF 21	





1.	CONTRACTOR SHALL FIELD VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION.	6.	FULL DEPTH COMPACTED GRANULAR FILL SHALL BE USED UNDER ALL PAVEMENT (I.E. DRIVES, WALKS, STREETS, ETC.) OR WHEN SEWER TRENCH IS WITHIN 3 FEET OF PAVEMENT. ALL PAVEMENT CROSSINGS REQUIRE SAW CUTTING.
2.	CONTRACTOR SHALL VISIT THE SITE PRIOR TO PLACING BID TO BECOME FAMILIAR WITH EXISTING CONDITIONS.	7.	CONTRACTOR SHALL PROVIDE EACH HOUSE OR BUSINESS IN THE SERVICE AREA WITH A 6-INCH PVC SDR-35 OR SDR-26 WATERWORKS GRADE SERVICE CONNECTION, TO THE RIGHT-OF-WAY LINE. THE CONTRACTOR SHALL COORDINATE THE SERVICE LOCATION WITH THE PROPERTY OWNER.
3.	CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO AT LEAST PRE-CONSTRUCTION CONDITIONS.	8.	CONTRACTOR SHALL GRADE ALL DISTURBED AREAS TO ALLOW PROPER DRAINAGE AND PROVIDE SEED AND STRAW IN LAWN AREAS.
4.	ALL PROPOSED MANHOLE CASTING ELEVATIONS SHOWN ARE APPROXIMATE AND FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTING CASTINGS FLUSH WITH FINISH GRADE OR STREET GRADE. CASTINGS LOCATED IN DRAINAGE DITCHES SHALL BE SET HIGHER THAN INVERT OF DRAINAGE DITCH.	9.	CONTRACTOR SHALL PROTECT OR REINSTALL ALL DISTURBED MAILBOXES.
5.	CONTRACTOR SHALL MAINTAIN A SEPARATION BETWEEN EXISTING WATER LINES AND SEWERS OF 18" VERTICALLY AND 10'-0" HORIZONTALLY. PRESSURE RATED SEWER PIPE AS SPECIFIED SHALL BE USED WHEN THIS SEPARATION CAN'T BE MAINTAINED.	10.	CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING AND/OR REPLACE EXISTING DRIVEWAY CULVERTS TO AT LEAST PRE-EXISTING CONDITION.



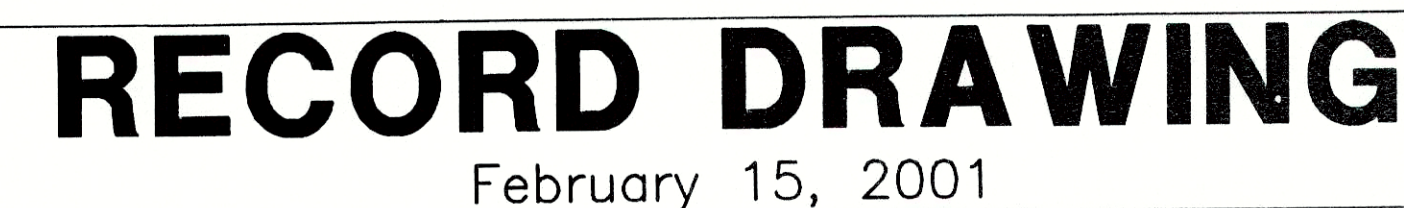
**DON'T DIG BLIND  
CALL BEFORE YOU DIG**  
WITHIN INDIANA  
1-800-382-5544  
OUTSIDE INDIANA  
1-800-428-5200



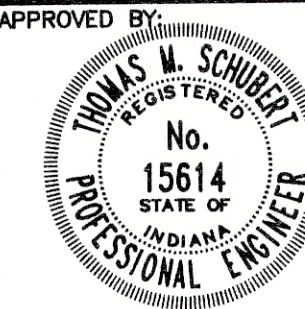
NOTE: CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS  
PRIOR TO THE START OF CONSTRUCTION

HORIZONTAL SCALE - 1" = 50'

VERTICAL SCALE - 1" = 5'



**TRIAD**  
**ASSOCIATES**  
**INC.**



HARSHMAN ROAD - ANN AVENUE  
FALL CREEK REGIONAL WASTE DISTRICT

## PLAN AND PROFILE

DRAWN BY:	DATE	04/12/08	PROJECT No.	SHEET No.
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DAP	SCALE	AS NOTED	98008A	9
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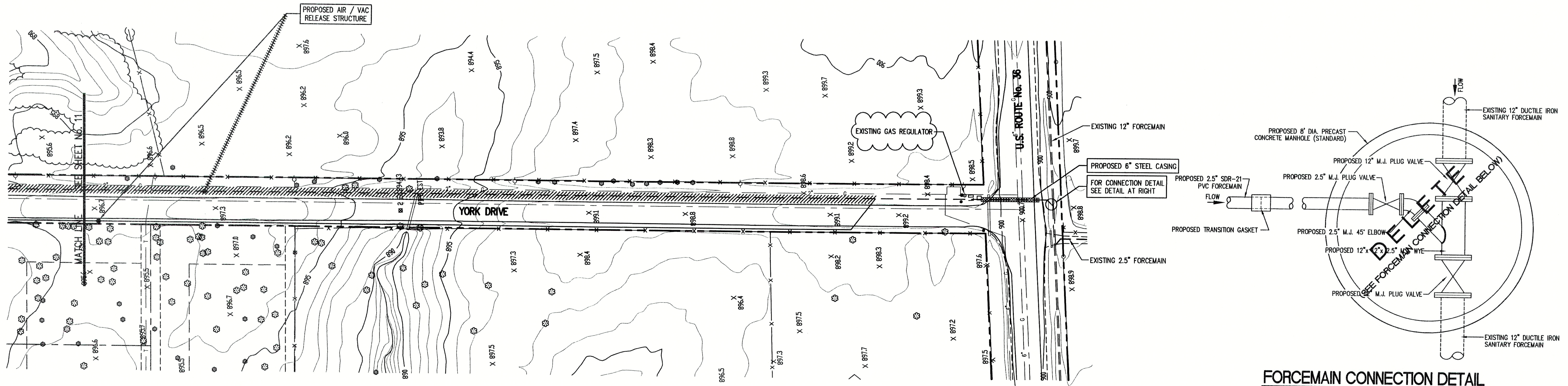
DAI	AS NOTED	0000007
REGISTERED BY: D.A. Bouling		

DESIGNED BY:	D.A. Fodding
CHECKED BY:	James W. Fennell, P.E.

CHECKED BY: James W. Frazell, P.E. 1 OF 1

OF





**FORCEMAIN CONNECTION DETAIL**  
SCALE: N.T.S.

**NOTE:**  
ADDITIONAL RIGHT-OF-WAY OR EASEMENTS MAY NEED TO BE ACQUIRED FOR INSTALLATION OF SEWER.



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INDIANA  
1-800-428-5200

PER INDIANA STATE LAW IS-69-1991, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

**NOTE:** CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO THE START OF CONSTRUCTION

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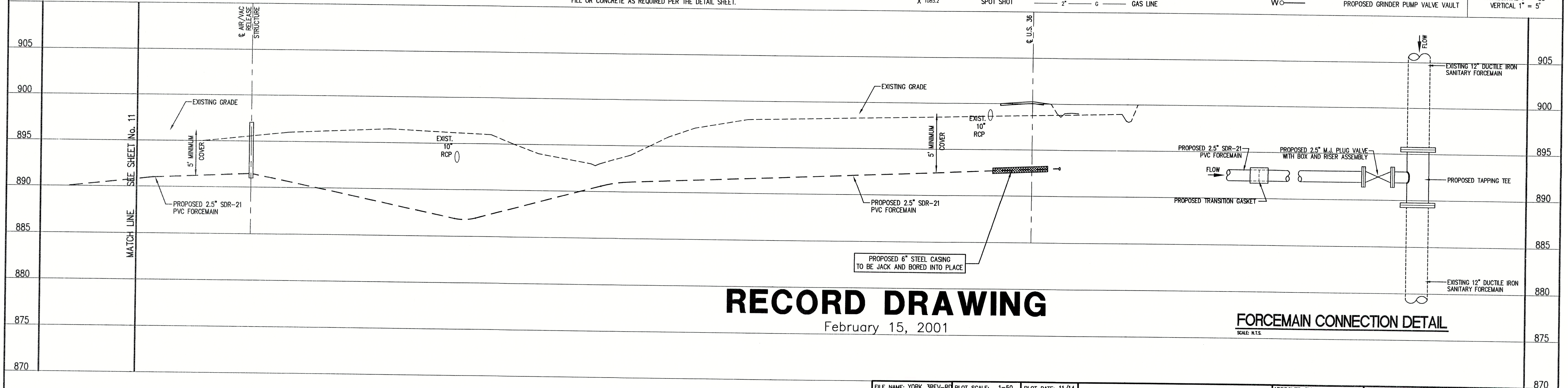
•	TREE	1085	CONTOUR
○	POWER POLE	X	FENCE
—	GUY WIRE	—	EXIST. SANITARY SEWER w/ MANHOLE
+	FIRE HYDRANT	SC	NEW SANITARY SEWER w/ MANHOLE
○	MAILBOX	—	NEW SANITARY SERVICE CONNECTION
FP	FLAGPOLE	4" W	WATER LINE
X 1085.2	SPOT SHOT	2" G	GAS LINE

**LEGEND:**

— E —	UNDERGROUND ELECTRIC LINE
— T —	UNDERGROUND TELEPHONE LINE
—	APPROX. RIGHT-OF-WAY
---	APPROX. CORPORATE LIMITS
---	APPROX. PROPERTY LINE
○ W	EXISTING WATER WELL
■ S	EXISTING SEPTIC TANK
W○	PROPOSED GRINDER PUMP VALVE VAULT



**SCALE:**  
HORIZONTAL 1" = 50'  
VERTICAL 1" = 5'



**RECORD DRAWING**

February 15, 2001

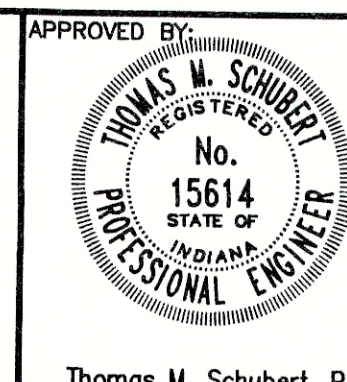
**FORCEMAIN CONNECTION DETAIL**  
SCALE: N.T.S.

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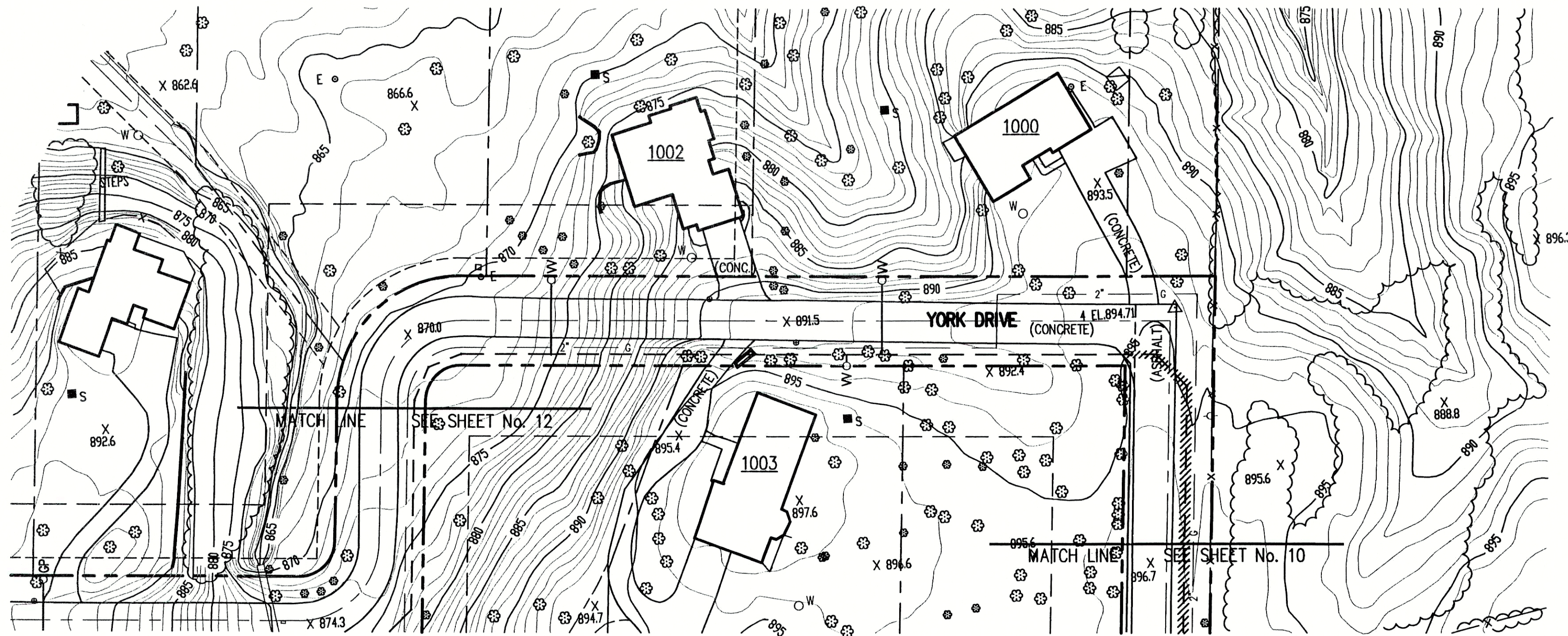
FILE NAME: YORK_3REV-R0		PLOT SCALE: 1=50	PLOT DATE: 11/14
NO.	DATE	DESCRIPTION	BY

**TRIAD ASSOCIATES INC.**  
INDIANAPOLIS, INDIANA



KEN-DALE MANOR ADDITION FALL CREEK REGIONAL WASTE DISTRICT			
PLAN AND PROFILE			
DRAWN BY:	DATE	PROJECT No.	SHEET No.
DAP	04/12/98	98008A	10
DESIGNED BY:	SCALE	AS NOTED	19
D.A. Pauling			
CHECKED BY:	James W. Frazell, P.E.		





NOTE:  
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OTHER STATES  
1-800-428-5200

PER INDIANA STATE LAW IS-60-1991, IT IS  
AGAINST THE LAW TO EXCAVATE WITHOUT  
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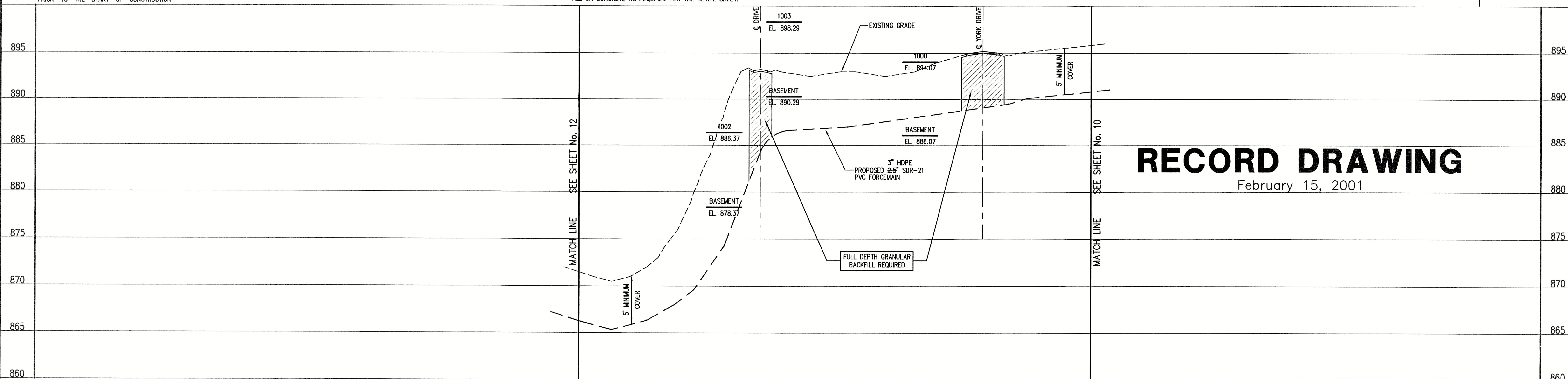
•	TREE	1085	CONTOUR
○	POWER POLE	X X	FENCE
+	GUY WIRE	— MH —	EXIST. SANITARY SEWER w/ MANHOLE
✓	FIRE HYDRANT	SC	NEW SANITARY SEWER w/ MANHOLE
○ MB	MAILBOX	— 4" W —	NEW SANITARY SERVICE CONNECTION
FP	FLAGPOLE	— 2" G —	WATER LINE
X 1085.2	SPOT SHOT		GAS LINE

#### LEGEND:

— E —	UNDERGROUND ELECTRIC LINE
— T —	UNDERGROUND TELEPHONE LINE
— — — —	APPROX. RIGHT-OF-WAY
— · — · —	APPROX. CORPORATE LIMITS
— — — —	APPROX. PROPERTY LINE
○ W	EXISTING WATER WELL
■ S	EXISTING SEPTIC TANK
W ○	PROPOSED GRINDER PUMP VALVE VAULT



SCALE:  
HORIZONTAL 1" = 50'  
VERTICAL 1" = 5'



## RECORD DRAWING

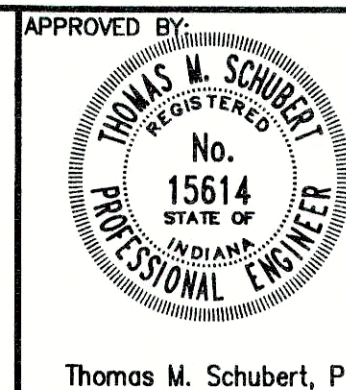
February 15, 2001

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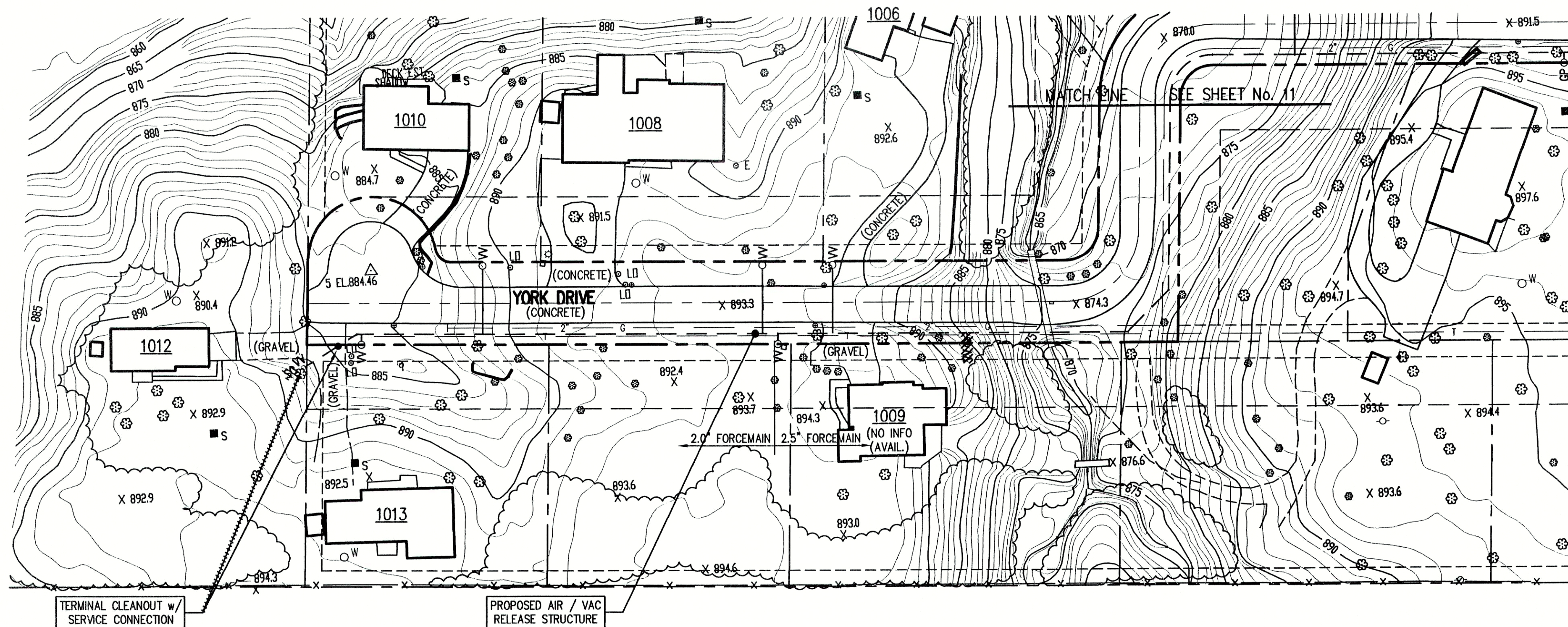
FILE NAME:	YORK_C2-RD	PLOT SCALE:	1=50	PLOT DATE:	11/14
NO.	DATE	DESCRIPTION	BY		

**TRIAD ASSOCIATES INC.**  
INDIANAPOLIS, INDIANA



KEN-DALE MANOR ADDITION FALL CREEK REGIONAL WASTE DISTRICT			
PLAN AND PROFILE			
DRAWN BY:	DATE	PROJECT No.	SHEET No.
DAP	04/12/98	98008A	11
DESIGNED BY:	D.A. Pauling		
CHECKED BY:	James W. Frazell, P.E.		





NOTE:  
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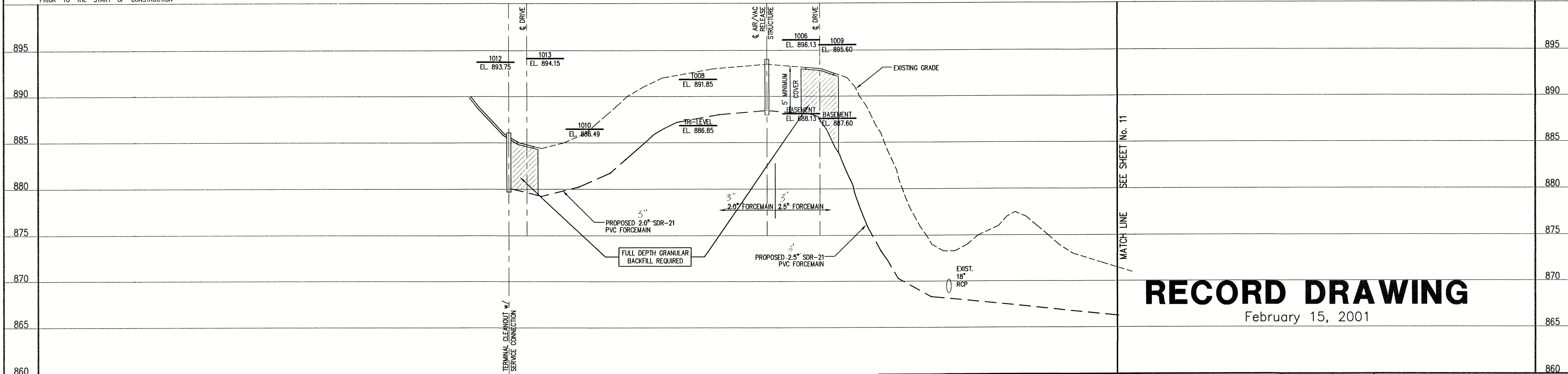
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- LEGEND:
- |          |              |      |                                  |     |                                   |
|----------|--------------|------|----------------------------------|-----|-----------------------------------|
| •        | TREE         | 1085 | CONTOUR                          | --- | UNDERGROUND ELECTRIC LINE         |
| ○        | POWER POLE   | X X  | FENCE                            | --- | UNDERGROUND TELEPHONE LINE        |
| +        | GUY WIRE     | WH   | EXIST. SANITARY SEWER w/ MANHOLE | --- | APPROX. RIGHT-OF-WAY              |
| W        | FIRE HYDRANT | SC   | NEW SANITARY SEWER w/ MANHOLE    | --- | APPROX. CORPORATE LIMITS          |
| MB       | MAILBOX      | SC   | NEW SANITARY SERVICE CONNECTION  | --- | APPROX. PROPERTY LINE             |
| FP       | FLAGPOLE     | 4" W | WATER LINE                       | ○ W | EXISTING WATER WELL               |
| X 1085.2 | SPOT SHOT    | 2" G | GAS LINE                         | ■ S | EXISTING SEPTIC TANK              |
|          |              |      |                                  | W   | PROPOSED GRINDER PUMP VALVE VAULT |



SCALE:  
HORIZONTAL 1" = 50'  
VERTICAL 1" = 5'



# RECORD DRAWING

February 15, 2001

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FILE NAME: YORK_1REV-RD		PLOT SCALE: 1=50	PLOT DATE: 11/21
NO.	DATE	DESCRIPTION	BY

**TRIAD ASSOCIATES INC.**  
INDIANAPOLIS, INDIANA

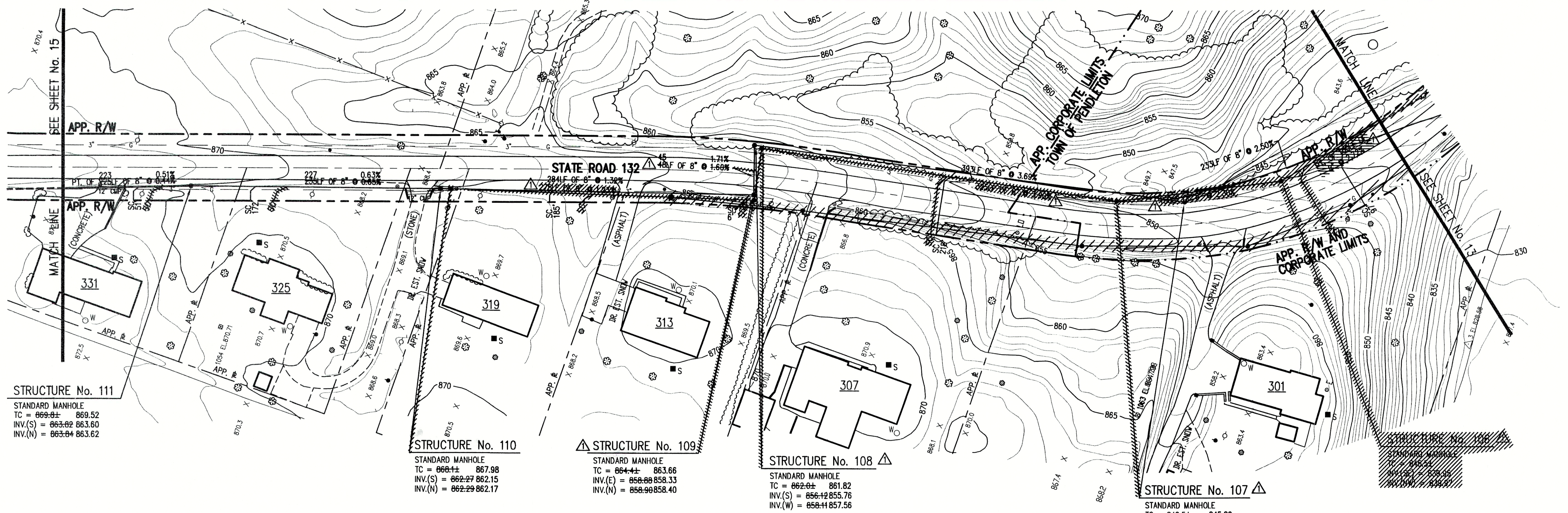
APPROVED BY:  
THOMAS M. SCHUBERT  
No. 15614  
STATE OF INDIANA  
REGISTERED PROFESSIONAL ENGINEER  
Thomas M. Schubert, P.E.

KEN-DALE MANOR ADDITION  
FALL CREEK REGIONAL WASTE DISTRICT  
PLAN AND PROFILE  
DRAWN BY: DAP  
DATE: 04/12/98  
SCALE: AS NOTED  
PROJECT No.: 98008A  
SHEET No.: 12  
DESIGNED BY: D.A. Pauling  
CHECKED BY: James W. Frazell, P.E.  
OF 19









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PRIOR TO THE START OF CONSTRUCTION

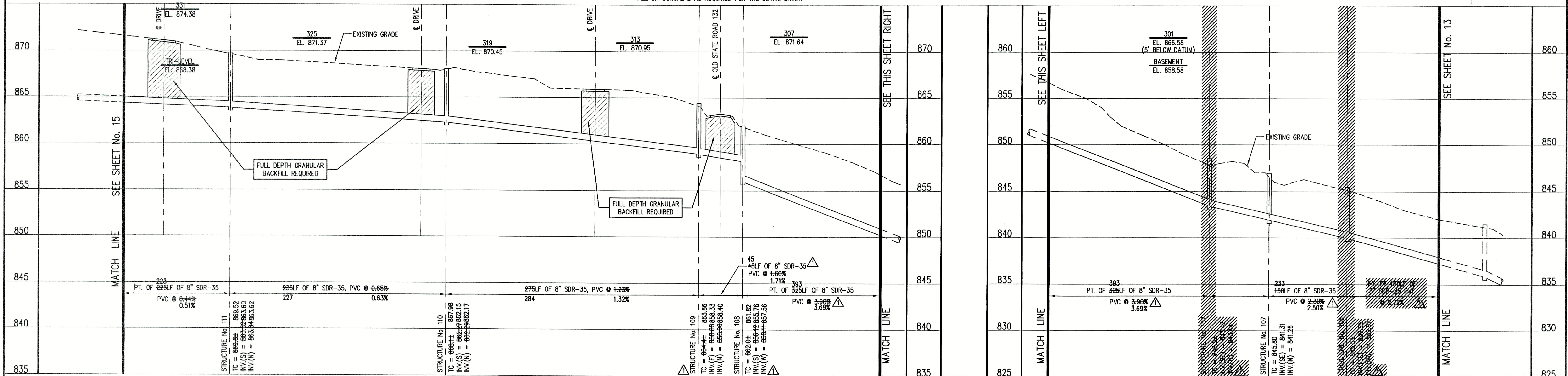
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LEGEND:	
1085	CONTOUR
—X—X—	FENCE
—MH—	EXIST. SANITARY SEWER w/ MANHOLE
—SC—	NEW SANITARY SEWER w/ MANHOLE
—W—	NEW SANITARY SERVICE CONNECTION
—4"—W—	WATER LINE
—2"—G—	GAS LINE
—E—	UNDERGROUND ELECTRIC LINE
—T—	UNDERGROUND TELEPHONE LINE
---	APPROX. RIGHT-OF-WAY
---	APPROX. CORPORATE LIMITS
---	APPROX. PROPERTY LINE
○ W	EXISTING WATER WELL
■ S	EXISTING SEPTIC TANK
W○	PROPOSED GRINDER PUMP VALVE VAULT
○	TREE
×	POWER POLE
—	GUY WIRE
—	FIRE HYDRANT
—SC—	MAILBOX
—	FLAGPOLE
—	SPOT SHOT



SCALE:  
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VERTICAL 1" = 5'

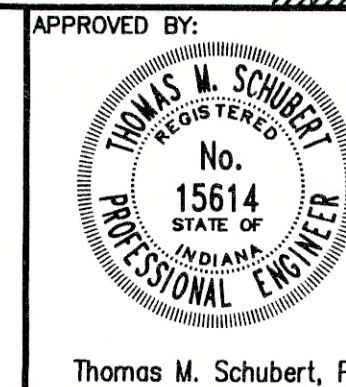


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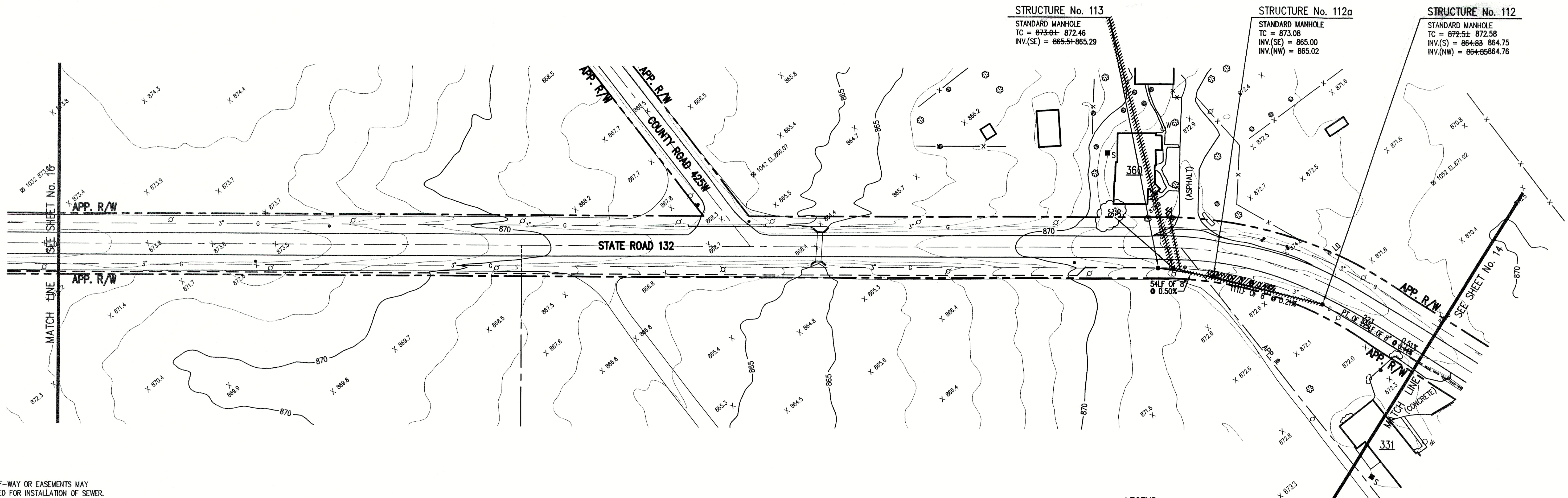
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05/24/99	SEWER LINE RELOCATION	D.A.P.	
NO.	DATE	DESCRIPTION	BY

INC.  
INDIANAPOLIS, IND



APPROVED BY:			
OLD STATE ROAD No. 132 FALL CREEK REGIONAL WASTE DISTRICT			
PLAN AND PROFILE			
DRAWN BY:	DATE	PROJECT No.	SHEET No.
DAP	04/12/98	98008A	14
DESIGNED BY:	D.A. Pauling		
CHECKED BY:	James W. Frazell, P.E.		





NOTE:  
ADDITIONAL RIGHT-OF-WAY OR EASEMENTS MAY  
NEED TO BE ACQUIRED FOR INSTALLATION OF SEWER.

**DON'T DIG BLIND  
CALL BEFORE YOU DIG**  
1-800-382-5544  
1-800-428-5200

PER INDIANA STATE LAW 15-69-1991, IT IS  
AGAINST THE LAW TO EXCAVATE WITHOUT  
NOTIFYING THE UNDERGROUND LOCATION SERVICE  
TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

NOTE: CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS  
PRIOR TO THE START OF CONSTRUCTION

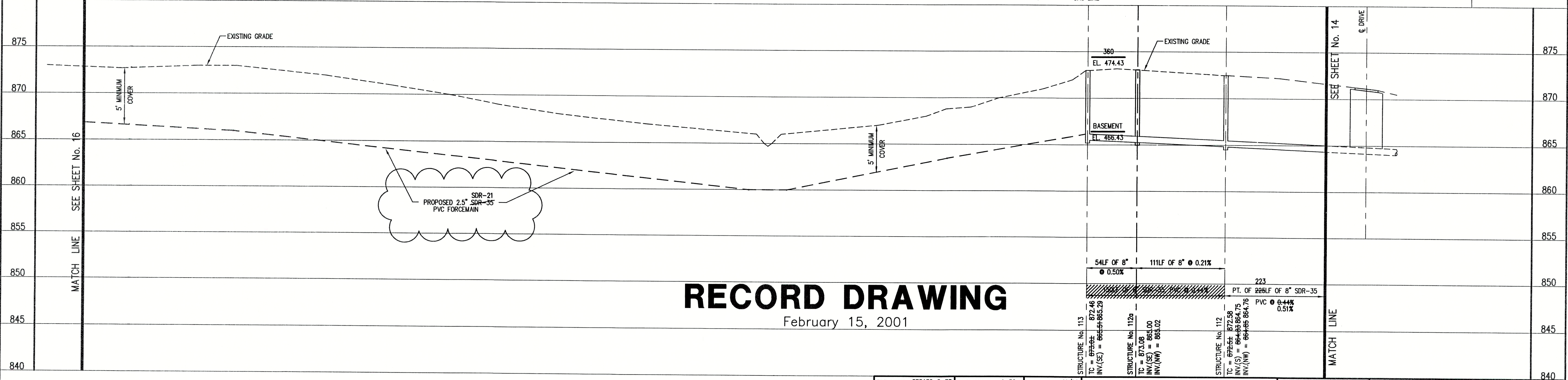
**GENERAL NOTES:**

- ALL UTILITY LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL HAVE ALL UTILITIES FIELD VERIFIED AND MARKED PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN A MINIMUM 10'-0" HORIZONTAL AND 18" VERTICAL SEPARATION BETWEEN SEWER AND WATER MAINS.
- ALL PROPOSED TOP OF CASTING ELEVATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL ADJUST FINAL ELEVATIONS AS REQUIRED TO BE FLUSH WITH PAVEMENT.
- ALL SEWER TRENCHES SHALL BE BACKFILLED WITH FULL DEPTH COMPACTED GRANULAR BACKFILL ("B" BORROW) UNDER OR WITHIN 5' OF EDGE OF PAVEMENT.
- THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO BECOME FAMILIAR WITH ALL SITE CONDITIONS.
- THE CONTRACTOR SHALL PROVIDE THE REQUIRED MEANS FOR MAINTAINING SAFE TRAFFIC AT ALL TIMES.
- CONTRACTOR SHALL RESTORE ALL DISTURBED LAWN AREAS, STREETS, WALKS, DRIVES, ETC. AS SHOWN ON DRAWINGS, IN THE SPECIFICATIONS, OR TO AT LEAST PRE-EXISTING CONDITIONS.
- ALL UTILITY CROSSINGS SHALL BE PROTECTED AND SUPPORTED WITH GRANULAR FILL OR CONCRETE AS REQUIRED PER THE DETAIL SHEET.

- LEGEND:**
- TREE
  - POWER POLE
  - GUY WIRE
  - FIRE HYDRANT
  - MAILBOX
  - FLAGPOLE
  - SPOT SHOT
  - CONTOUR
  - FENCE
  - EXIST. SANITARY SEWER w/ MANHOLE
  - NEW SANITARY SEWER w/ MANHOLE
  - NEW SANITARY SERVICE CONNECTION
  - WATER LINE
  - GAS LINE
  - UNDERGROUND ELECTRIC LINE
  - UNDERGROUND TELEPHONE LINE
  - APPROX. RIGHT-OF-WAY
  - APPROX. CORPORATE LIMITS
  - APPROX. PROPERTY LINE
  - EXISTING WATER WELL
  - EXISTING SEPTIC TANK
  - PROPOSED GRINDER PUMP VALVE VAULT



SCALE:  
HORIZONTAL 1" = 50'  
VERTICAL 1" = 5'



**RECORD DRAWING**  
February 15, 2001

NOTE:  
THE CONTRACTOR SHALL INCLUDE IN THE COSTS FOR SANITARY PIPE, ALL WATER SERVICE RECONNECTIONS, SANITARY SEWER SERVICE RECONNECTIONS, WATER MAIN RELOCATIONS, CONCRETE RECONSTRUCTION, AND SIDEWALK RECONSTRUCTION AS REQUIRED TO INSTALL NEW WORK AS SHOWN ON THE DRAWINGS.

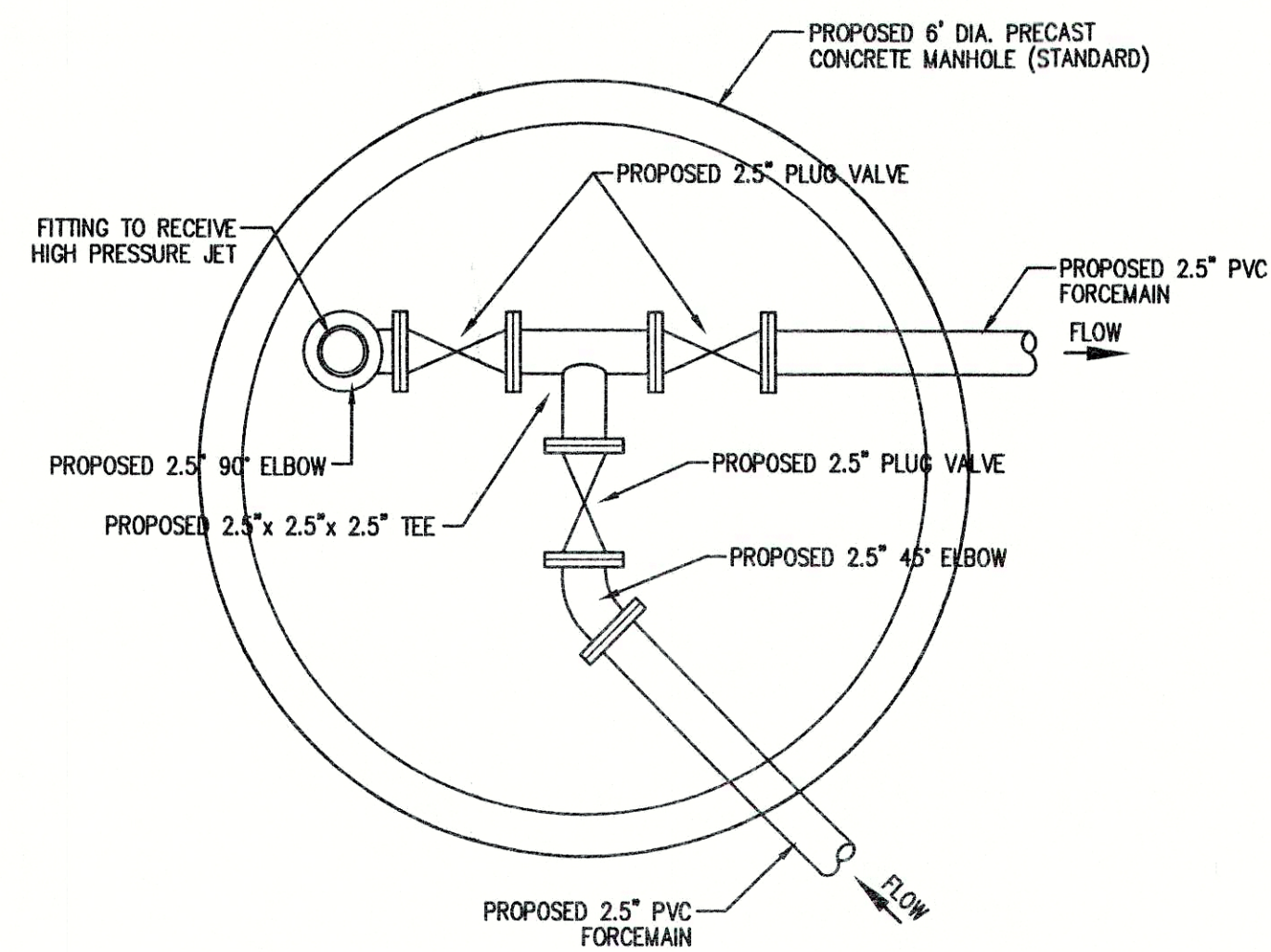
NO.	DATE	DESCRIPTION	BY

**TRIAD ASSOCIATES INC.**  
INDIANAPOLIS, INDIANA

APPROVED BY:  
**THOMAS M. SCHUBERT**  
No. 15614  
STATE OF INDIANA  
PROFESSIONAL ENGINEER

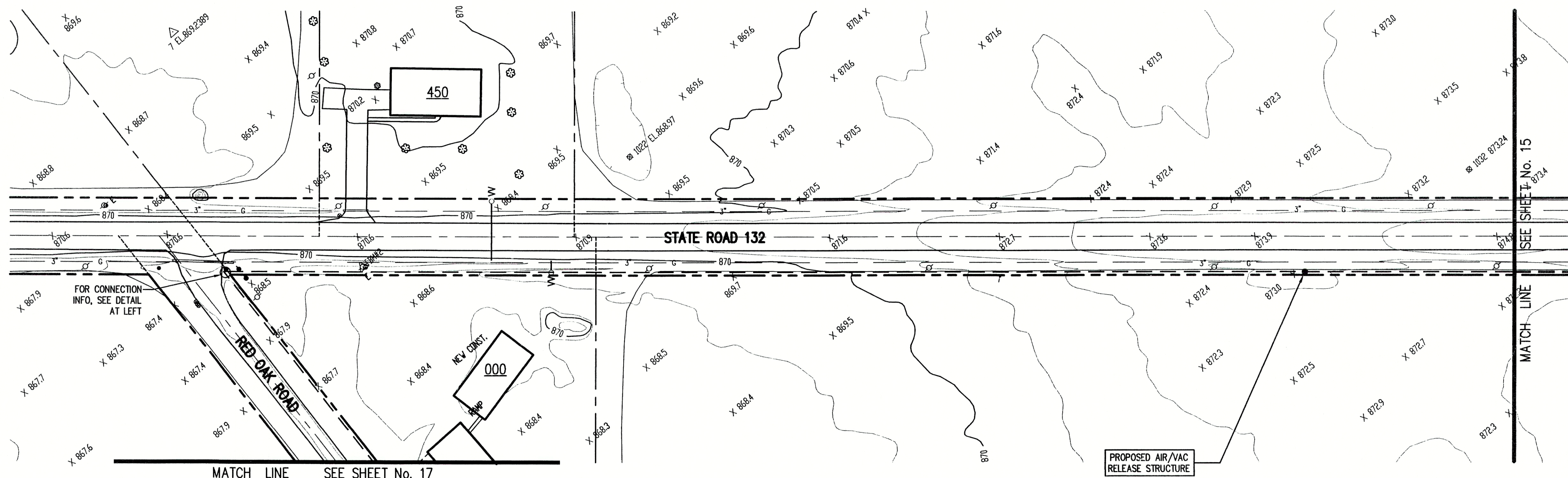
OLD STATE ROAD No. 132  
FALL CREEK REGIONAL WASTE DISTRICT  
PLAN AND PROFILE  
DRAWN BY: DAP  
SCALE: AS NOTED  
DESIGNED BY: D.A. Pauling  
CHECKED BY: James W. Frazell, P.E.  
PROJECT No. 98008A  
SHEET No. 15  
OF 19





# **FORCEMAIN CONNECTION DETAIL**

SCALE: N.T.S.



## **NOTE:**

ADDITIONAL RIGHT-OF-WAY OR EASEMENTS MAY NEED TO BE ACQUIRED FOR INSTALLATION OF SEWER.



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TOLL FREE  
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OR  
1-800-428-5200

PER INDIANA STATE LAW IS-69-1991, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

NOTE: CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO THE START OF CONSTRUCTION

## **GENERAL NOTES:**

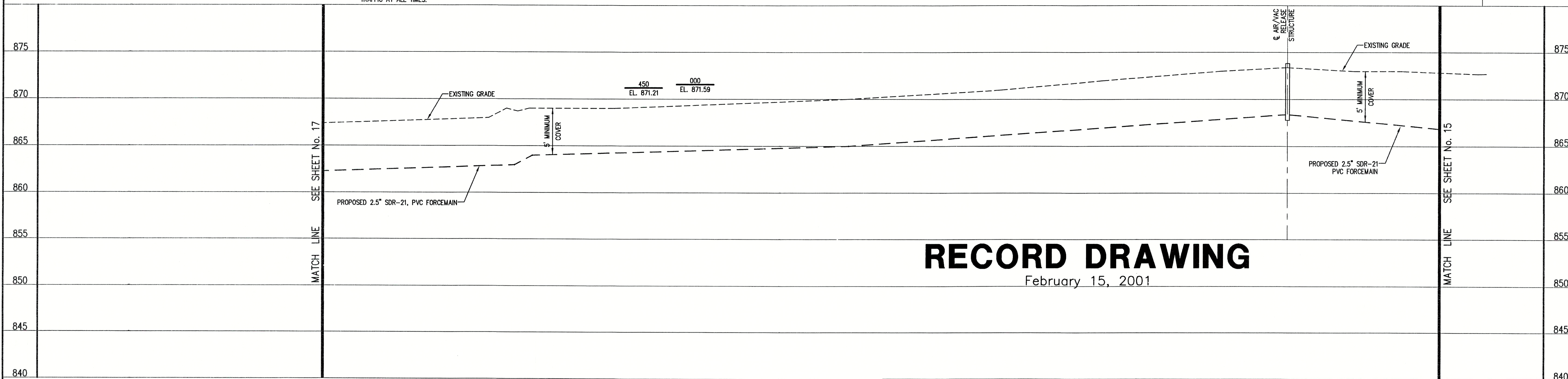
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- ALL STORM SEWER TRENCHES SHALL BE BACKFILLED WITH FULL DEPTH COMPACTED GRANULAR BACKFILL ("B" BORROW) UNDER OR WITHIN 5' OF EDGE OF PAVEMENT.
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- THE CONTRACTOR SHALL INCLUDE IN THE PRICE FOR EACH NEW CURB INLET THE REMOVAL AND REPLACEMENT OF AT LEAST 10' OF CONCRETE CURB AND GUTTER (5' EACH SIDE OF INLET) AS REQUIRED.
- THE CONTRACTOR SHALL SALVAGE ALL INLET AND MANHOLE CASTINGS REMOVED DURING CONSTRUCTION FOR THE OWNERS USE.
- ALL INLETS ARE TO INCLUDE RECONNECTION, ALL EXCAVATION, PIPE MATERIAL, ETC. REQUIRED TO COMPLETE ALL RESTORATION.

## **LEGEND:**

•	TREE	1085	CONTOUR	---	UNDERGROUND ELECTRIC LINE
○	POWER POLE	---	FENCE	---	UNDERGROUND TELEPHONE LINE
+	GUY WIRE	---	EXIST. SANITARY SEWER w/ MANHOLE	---	APPROX. RIGHT-OF-WAY
⋈	FIRE HYDRANT	---	NEW SANITARY SEWER w/ MANHOLE	---	APPROX. CORPORATE LIMITS
MB	MAILBOX	SC	NEW SANITARY SERVICE CONNECTION	---	APPROX. PROPERTY LINE
FP	FLAGPOLE	4" W	WATER LINE	○ W	EXISTING WATER WELL
X 1085.2	SPOT SHOT	2" G	GAS LINE	■ S	EXISTING SEPTIC TANK
				WO	PROPOSED GRINDER PUMP VALVE VAULT



**SCALE:**  
HORIZONTAL 1" = 50'  
VERTICAL 1" = 5'



# **RECORD DRAWING**

February 15, 2001

## **NOTE:**

THE CONTRACTOR SHALL INCLUDE IN THE COSTS FOR STORM PIPE, ALL WATER SERVICE RECONNECTIONS, SANITARY SEWER SERVICE RECONNECTIONS, WATER MAIN RELOCATIONS, CONCRETE RECONSTRUCTION, AND SIDEWALK RECONSTRUCTION AS REQUIRED TO INSTALL NEW WORK AS SHOWN ON THE DRAWINGS.

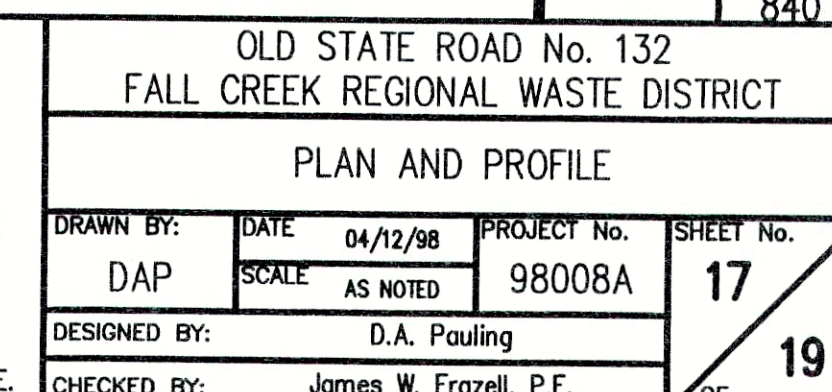
FILE NAME: SRD132_1-RD		PLOT SCALE: 1=50	PLOT DATE: 11/14
NO.	DATE	DESCRIPTION	RY

**TRIAD ASSOCIATES INC.**  
INDIANAPOLIS, INDIANA

APPROVED BY:  
**THOMAS W. SCHUBERT**  
No. 15614  
STATE OF INDIANA  
PROFESSIONAL ENGINEER  
Thomas M. Schubert, P.E.

OLD STATE ROAD No. 132  
FALL CREEK REGIONAL WASTE DISTRICT  
PLAN AND PROFILE  
DRAWN BY: DAP  
DATE: 04/12/98  
SCALE: AS NOTED  
PROJECT No. 98008A  
SHEET No. 16  
DESIGNED BY: D.A. Pauling  
CHECKED BY: James W. Frazell, P.E.  
OF 19







NOTE:

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OUTSIDE INDIANA  
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LEGEND:

•	TREE	1085	CONTOUR	---	E---	UNDERGROUND ELECTRIC LINE
○	POWER POLE	X	FENCE	---	T---	UNDERGROUND TELEPHONE LINE
+	GUY WIRE	MI	EXIST. SANITARY SEWER w/ MANHOLE	---	---	APPROX. RIGHT-OF-WAY
+	FIRE HYDRANT	SC	NEW SANITARY SEWER w/ MANHOLE	---	---	APPROX. CORPORATE LIMITS
+	MAILBOX	SC	NEW SANITARY SERVICE CONNECTION	---	---	APPROX. PROPERTY LINE
+	FLAGPOLE	4" W	WATER LINE	○ W	---	EXISTING WATER WELL
X 1085.2	SPOT SHOT	2" 0	GAS LINE	■ S	---	EXISTING SEPTIC TANK
				WVO	---	PROPOSED GRINDER PUMP VALVE VAULT



SCALE:  
HORIZONTAL 1" = 50'  
VERTICAL 1" = 5'

RECORD DRAWING

February 15, 2001

MATCH LINE SEE SHEET No. 17

EXISTING GRADE  
5' MINIMUM COVER  
PROPOSED 2.5" SDR-21, PVC FORCEMAIN

1356LF OF 2.5" SDR-21, PVC FORCEMAIN

EXISTING GRADE  
5' MINIMUM COVER  
PROPOSED 2.5" SDR-21, PVC FORCEMAIN

THIS SHEET  
WAS ADDED

NOTE:

THE CONTRACTOR SHALL INCLUDE IN THE COSTS FOR STORM PIPE,  
ALL WATER SERVICE RECONNECTIONS, SANITARY SEWER SERVICE  
RECONNECTIONS, WATER MAIN RELOCATIONS, CONCRETE RECONSTRUCTION,  
AND SIDEWALK RECONSTRUCTION AS REQUIRED TO INSTALL NEW WORK  
AS SHOWN ON THE DRAWINGS.

FILE NAME: RED\_OAK-RD PLOT SCALE: 1=50 PLOT DATE: 11/14

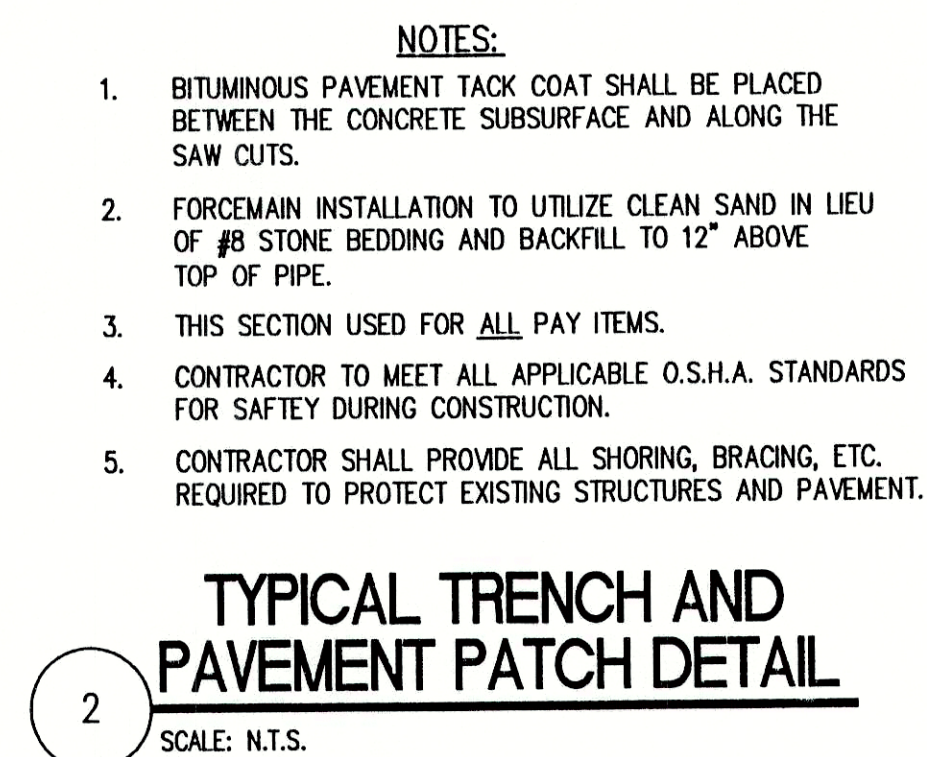
NO.	DATE	DESCRIPTION	BY

**TRIAD ASSOCIATES INC.**  
INDIANAPOLIS, INDIANA

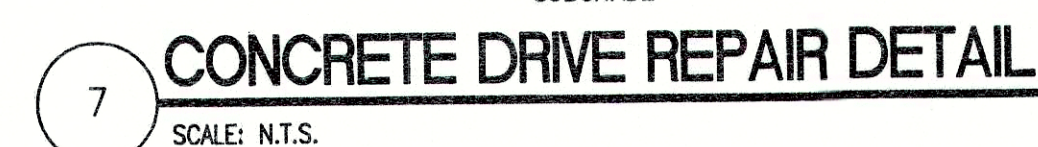
APPROVED BY:  
  
Thomas M. Schubert, P.E.

OLD STATE ROAD No. 132  
FALL CREEK REGIONAL WASTE DISTRICT  
PLAN AND PROFILE  
DRAWN BY: DAP DATE: 04/12/98 PROJECT No. 98008A SHEET No. 17A  
SCALE: AS NOTED  
DESIGNED BY: D.A. Pauling  
CHECKED BY: James W. Frazell, P.E.  
OF 19

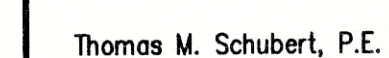




February 15, 2001

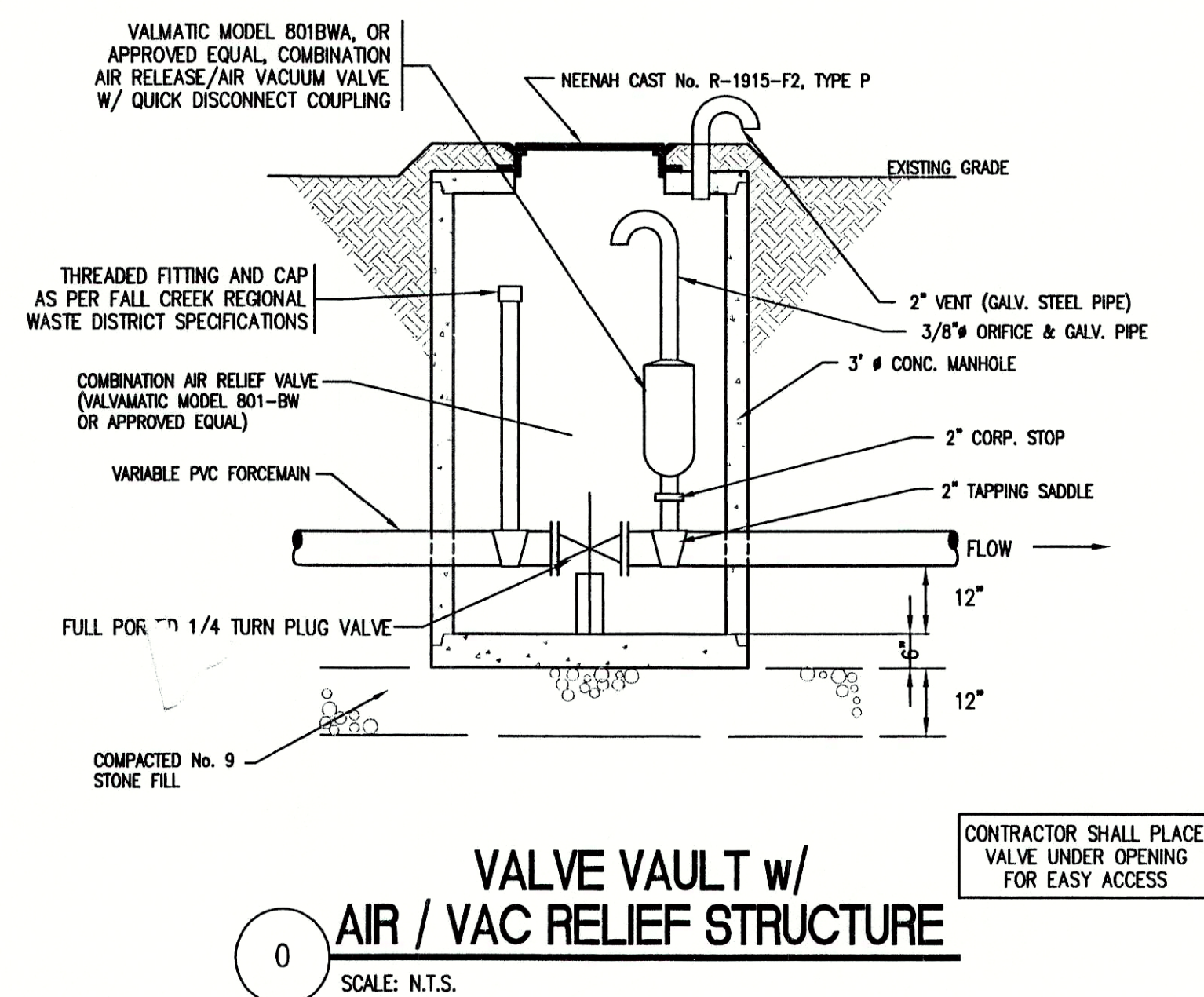
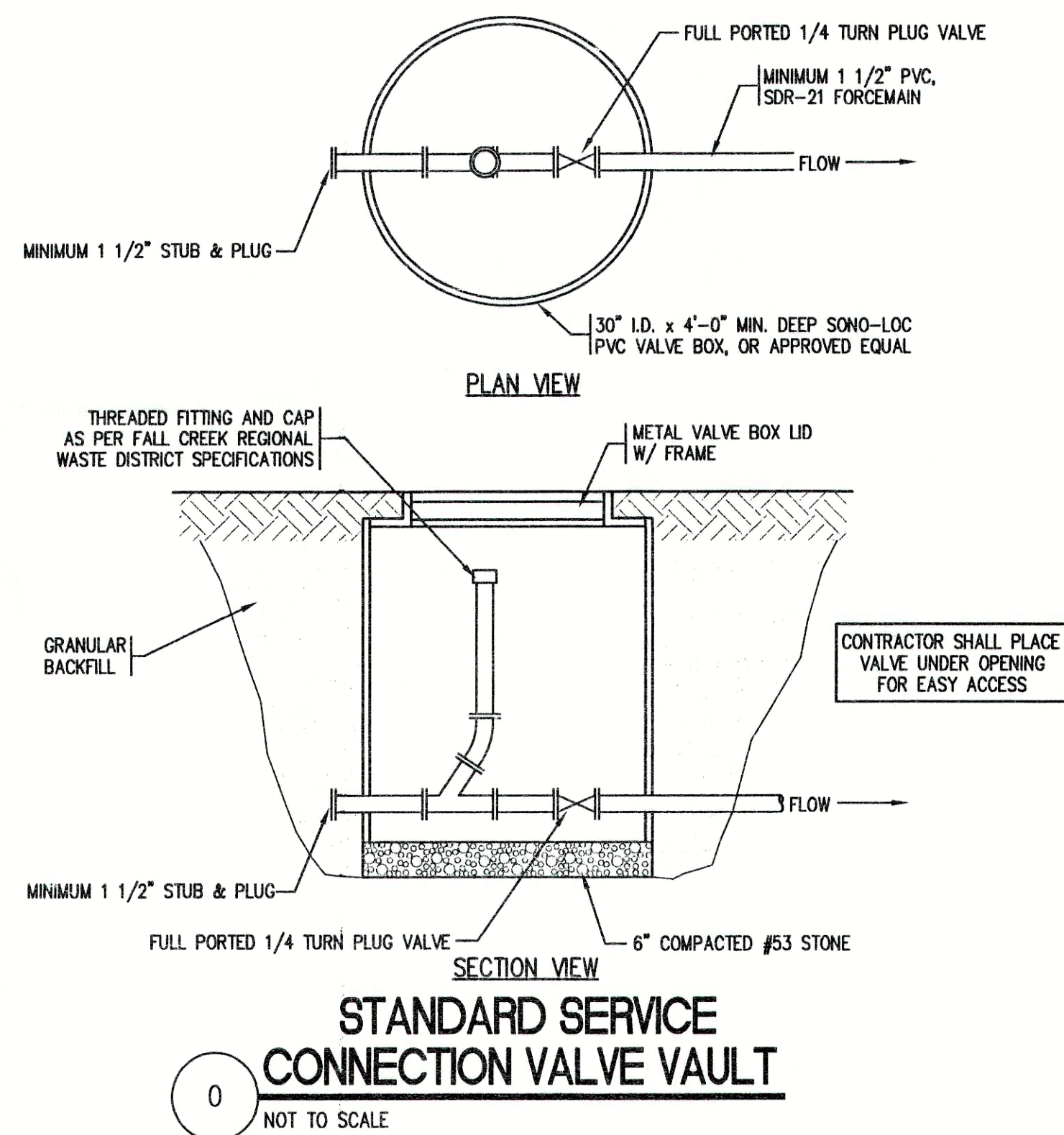


**TRIAD**  
**ASSOCIATES**  
**INC.**  
INDIANAPOLIS, INDIANA



DIVISION II - CONTRACT 'E'			
FALL CREEK REGIONAL WASTE DISTRICT			
STANDARD SANITARY SEWER DETAILS			
DRAWN BY: DAP	DATE 04/12/98 SCALE AS NOTED	PROJECT No. 98008A	SHEET No. 18
DESIGNED BY: D.A. Pauling		19	
CHECKED BY: James W. Frazell, P.E.		OF	





**RECORD DRAWING**  
February 15, 2001

FILE NAME: YORR_DT2-RD		PLOT SCALE: 1=1	PLOT DATE: 11/14
NO.	DATE	DESCRIPTION	BY

**TRIAD ASSOCIATES INC.**  
INDIANAPOLIS, INDIANA

APPROVED BY  
**THOMAS M. SCHUBERT**  
No. 15614  
STATE OF INDIANA  
REGISTERED PROFESSIONAL ENGINEER

DIVISION II - CONTRACT 'E'			
FALL CREEK REGIONAL WASTE DISTRICT			
STANDARD SANITARY SEWER DETAILS			
DRAWN BY: DAP	DATE: 04/12/98	PROJECT No. 98008A	SHEET No. 19
DESIGNED BY: D.A. Pauling	SCALE: AS NOTED	CHECKED BY: James W. Frazell, P.E.	OF 19