

HICKORY HILLS SUBDIVISION FALL CREEK REGIONAL WASTE DISTRICT MADISON COUNTY, INDIANA

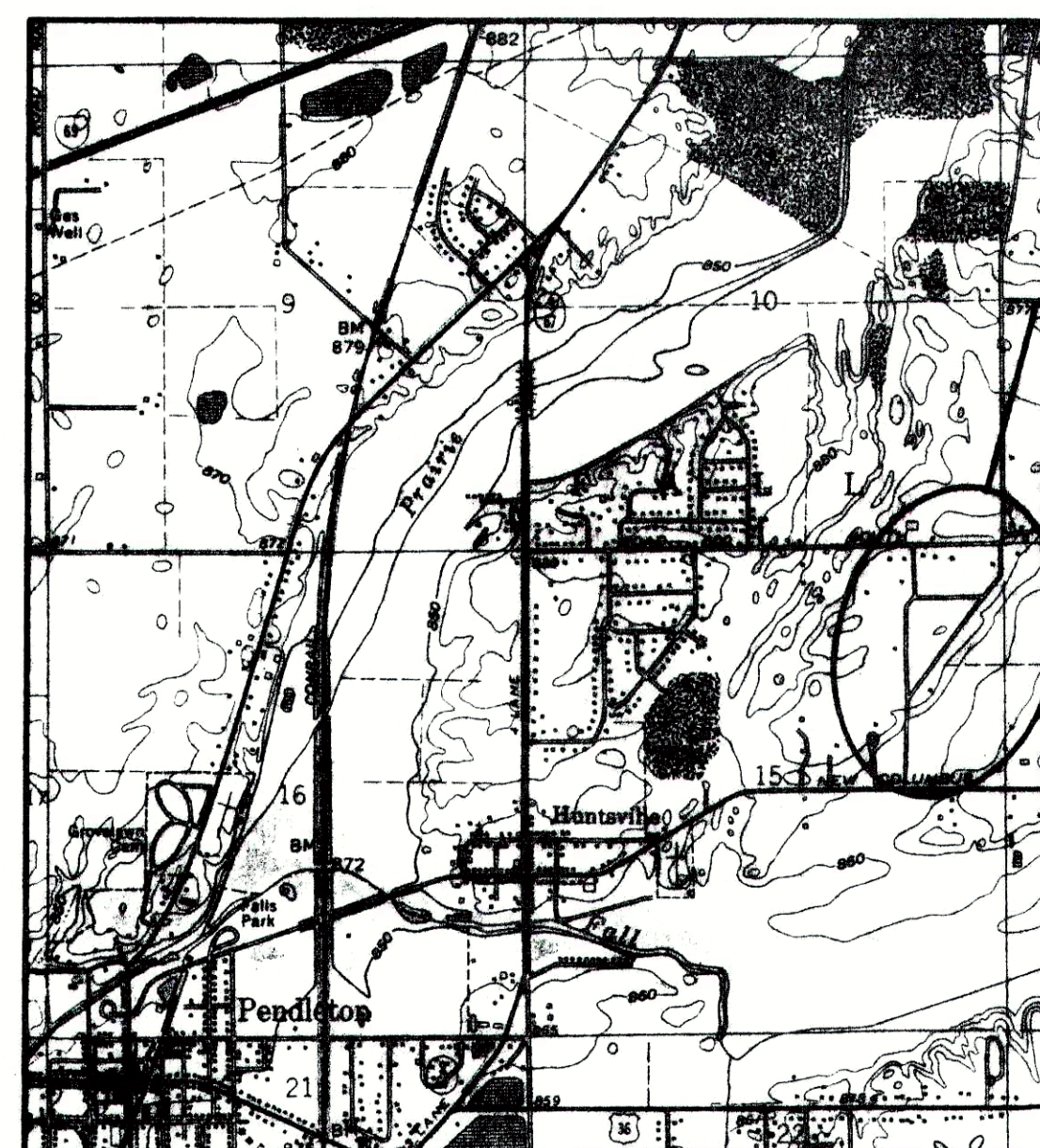
SANITARY SEWER IMPROVEMENTS

1995

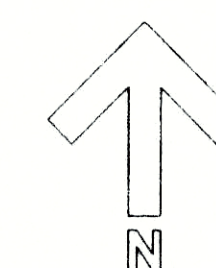
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AREA MAP

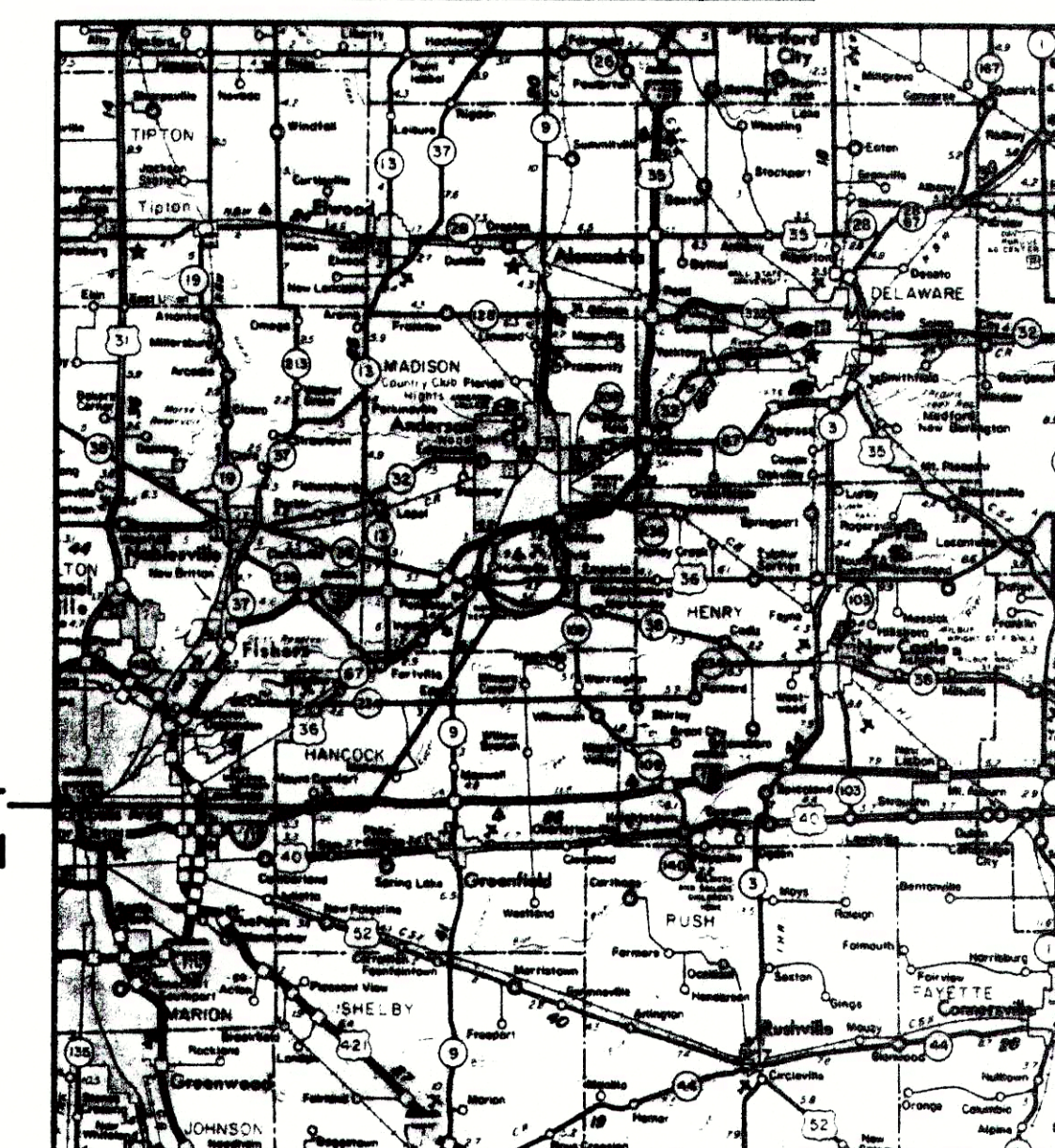


AREA
LOCATION



PROJECT
LOCATION

LOCATION MAP



FALL CREEK REGIONAL WASTE DISTRICT BOARD

Bill Clark - President
Morris McCurdy - Member
Charles Hennis - Member
Mark Jablonski - Member
Agon Tolbert - Member
Marvin Kelly - Member
Stephen Poor - Member
Marion Morris - Member
John Ellingwood - Member
Joe Rowlett - General Manager

AS-BUILT
09/18/95

PLANS PREPARED BY:

TRIAD
ASSOCIATES
INC.
INDIANAPOLIS, INDIANA

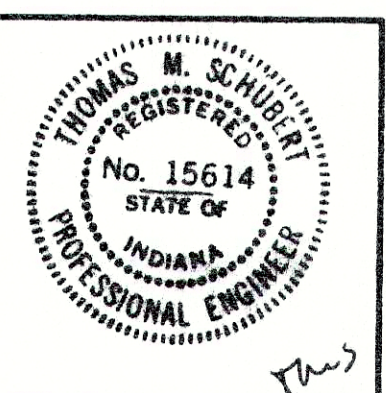


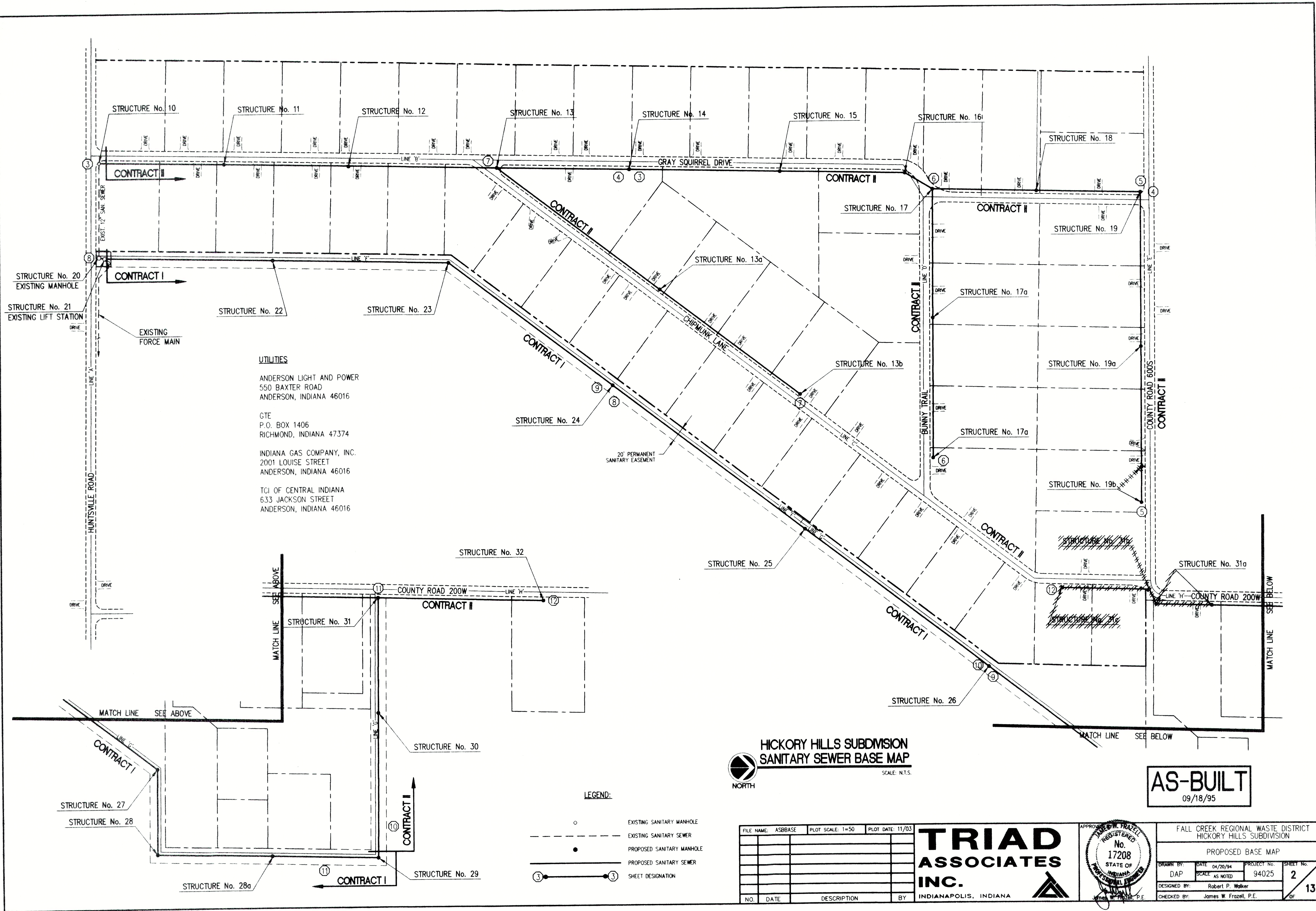
THESE PLANS CERTIFIED BY:

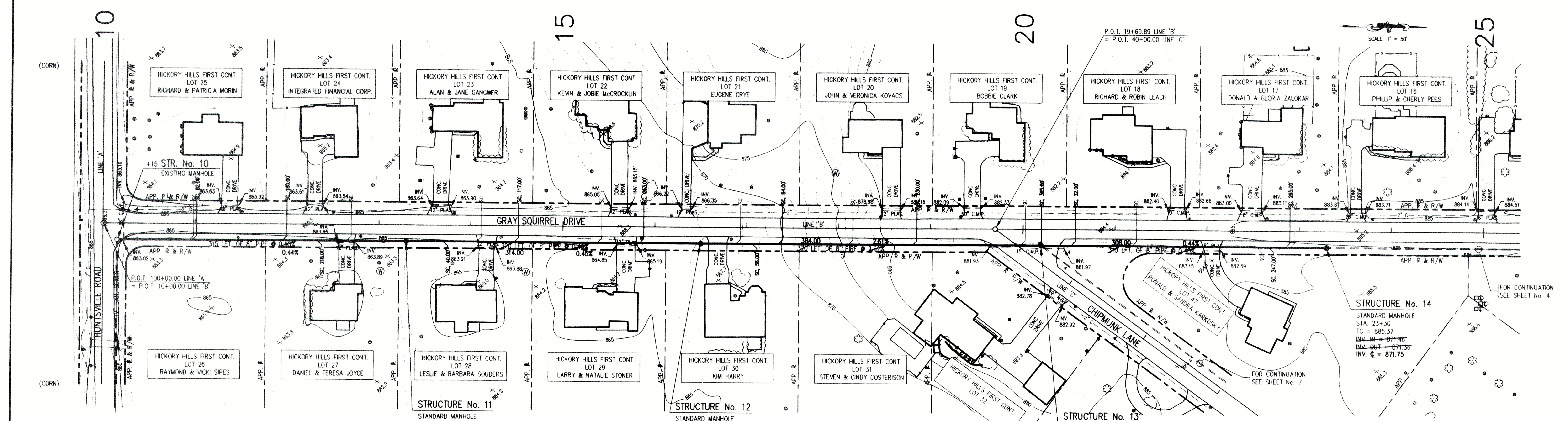
James W. Frazell, Professional Engineer



Thomas M. Schubert, Professional Engineer







- GENERAL NOTES:**
1. CONTRACTOR SHALL FIELD VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION.
 2. CONTRACTOR SHALL VISIT THE SITE PRIOR TO PLACING BID TO BECOME FAMILIAR WITH EXISTING CONDITIONS.
 3. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO AT LEAST PRE-CONSTRUCTION CONDITIONS.
 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.
 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.
 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.
 7. CONTRACTOR SHALL PROVIDE EACH HOUSE OR BUSINESS IN THE SERVICE AREA WITH A 6-INCH PVC SDR-35, SERVICE CONNECTION TO THE RIGHT-OF-WAY LINE. THE CONTRACTOR SHALL COORDINATE THE SERVICE LOCATION WITH THE PROPERTY OWNER.
 8. CONTRACTOR SHALL GRADE ALL DISTURBED AREAS TO ALLOW PROPER DRAINAGE.
 9. CONTRACTOR SHALL PROTECT AND REINSTALL ALL DISTURBED MAILBOXES.

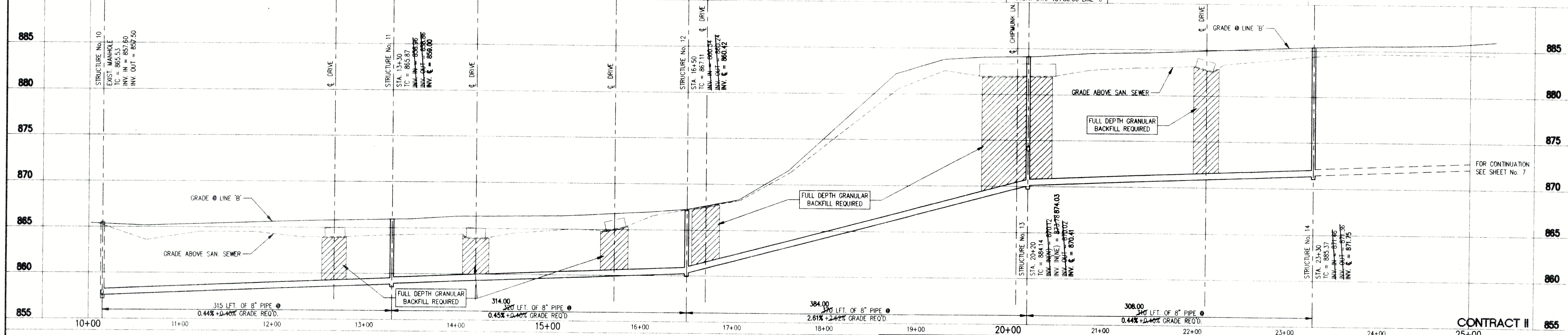
LEGEND:

- EXISTING DRAINAGE CULVERT
- EXISTING TREE OR SHRUB
- PROPOSED SANITARY MANHOLE
- PROPOSED SANITARY SEWER
- EXISTING SIGN
- EXISTING MAILBOX
- RIGHT OF WAY
- PROPERTY LINE
- AS-DESIGNED LATERAL LOCATION
- AS-BUILT LATERAL LOCATION (CONTRACT II SEWER LATERALS ARE 4 TO 5 FEET DEEP AT R/W LINE)
- WATER LINE
- GAS LINE
- EXISTING UTILITY POLE W/GUY
- EXISTING UTILITY POLE
- WATER WELL
- EXISTING FENCE LINE
- EXISTING ELECTRIC TRANSFORMER

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

AS-BUILT
09/18/95

TBM #1 = PK NAIL @ STA. 10+00.00 LINE 'B' EL. 865.44
TBM #2 = RR SPIKE @ STA. 19+69.89 LINE 'B' EL. 884.03



SURVEY LINE 'B'

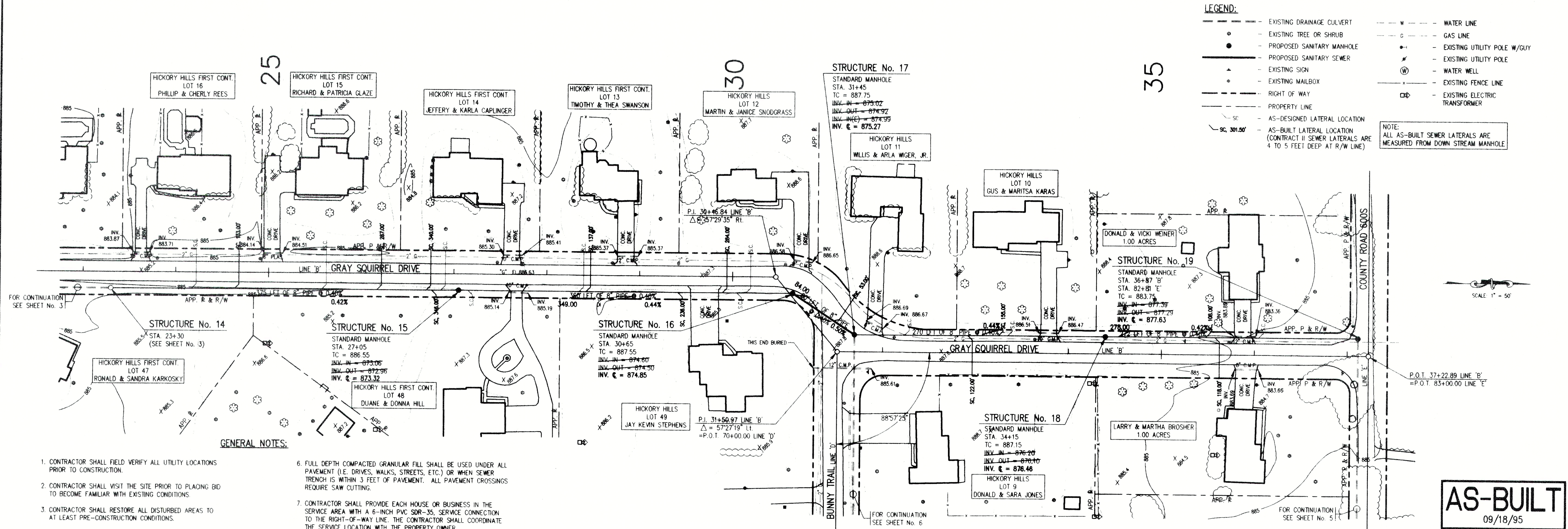
FILE NAME: 94025AB3 PLOT SCALE: 1=50 PLOT DATE: 11/03

TRIAD ASSOCIATES INC.
INDIANAPOLIS, INDIANA

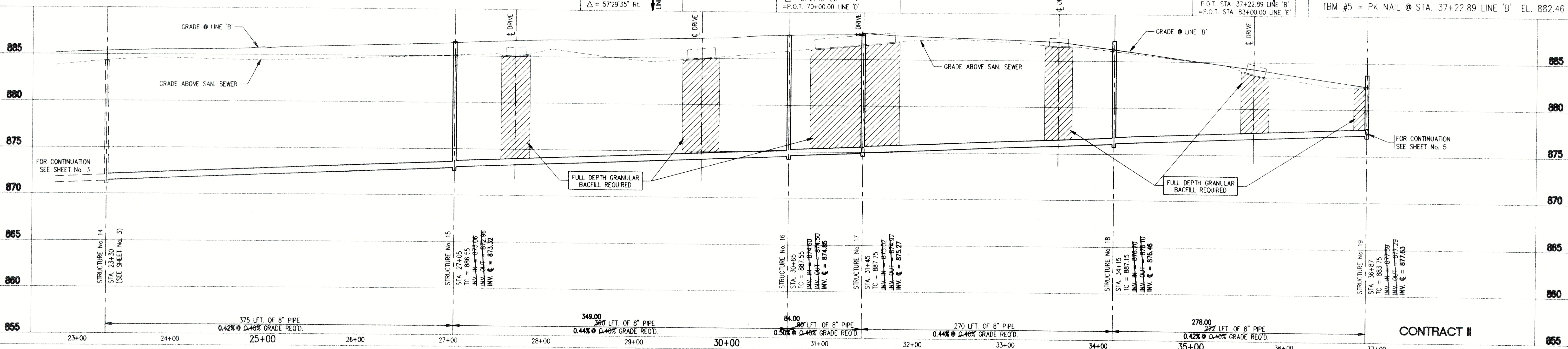
APPROVED: JAMES W. FRAZELL, REGISTERED PROFESSIONAL ENGINEER, No. 17208, STATE OF INDIANA

FALL CREEK REGIONAL WASTE DISTRICT
HICKORY HILLS SUBDIVISION
PROPOSED SANITARY SEWER PLAN

DRAWN BY: DAP/GSS DATE: 04/20/94 PROJECT No. 94025 SHEET No. 3 OF 13
DESIGNED BY: Robert P. Walker
CHECKED BY: James W. Frazell, P.E.



- 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.
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 - CONTRACTOR SHALL GRADE ALL DISTURBED AREAS TO ALLOW PROPER DRAINAGE.
 - CONTRACTOR SHALL PROTECT AND REINSTALL ALL DISTURBED MAILBOXES.



FILE NAME:	94025AB4	PLOT SCALE:	1"=50'	PLOT DATE:	11/03
SURVEY LINE "B"					
NO.	DATE	DESCRIPTION	BY		
TRIAD ASSOCIATES INC. INDIANAPOLIS, INDIANA					
APPROVED: FALL CREEK REGIONAL WASTE DISTRICT HICKORY HILLS SUBDIVISION PROPOSED SANITARY SEWER PLAN					
DRAWN BY: GSS/DAP DESIGNED BY: Robert P. Walker CHECKED BY: James W. Frazee, P.E. DATE: 04/20/94 SCALE: AS NOTED PROJECT NO.: 94025 SHEET NO.: 4 OF 13					

GENERAL NOTES:

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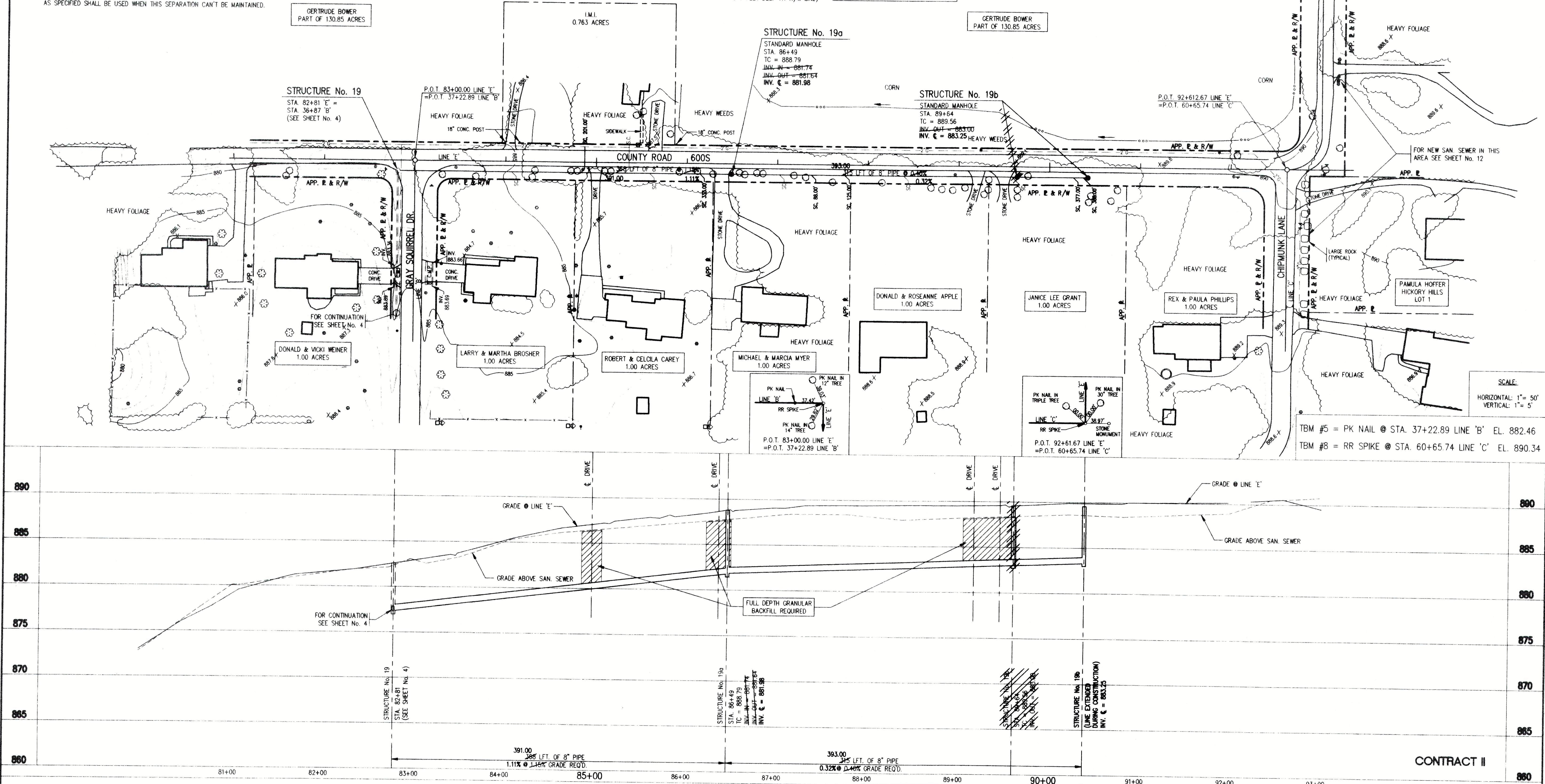
LEGEND:

- EXISTING DRAINAGE CULVERT
- EXISTING TREE OR SHRUB
- PROPOSED SANITARY MANHOLE
- PROPOSED SANITARY SEWER
- EXISTING SIGN
- EXISTING MAILBOX
- RIGHT OF WAY
- PROPERTY LINE
- AS-DESIGNED LATERAL LOCATION
- AS-BUILT LATERAL LOCATION (CONTRACT II SEWER LATERALS ARE 4 TO 5 FEET DEEP AT R/W LINE)
- WATER LINE
- GAS LINE
- EXISTING UTILITY POLE W/GUY
- EXISTING UTILITY POLE
- WATER WELL
- EXISTING FENCE LINE
- EXISTING ELECTRIC TRANSFORMER

NOTE:
ALL AS-BUILT SEWER LATERALS ARE MEASURED FROM DOWN STREAM MANHOLE

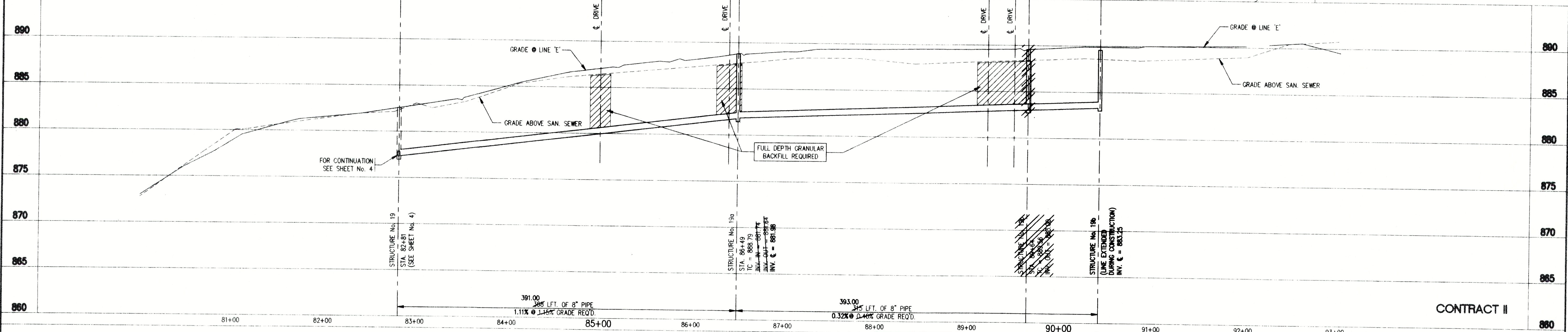
AS-BUILT
09/18/95

SCALE: 1" = 50'



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

TBM #5 = PK NAIL @ STA. 37+22.89 LINE 'B' EL. 882.46
TBM #8 = RR SPIKE @ STA. 60+65.74 LINE 'C' EL. 890.34



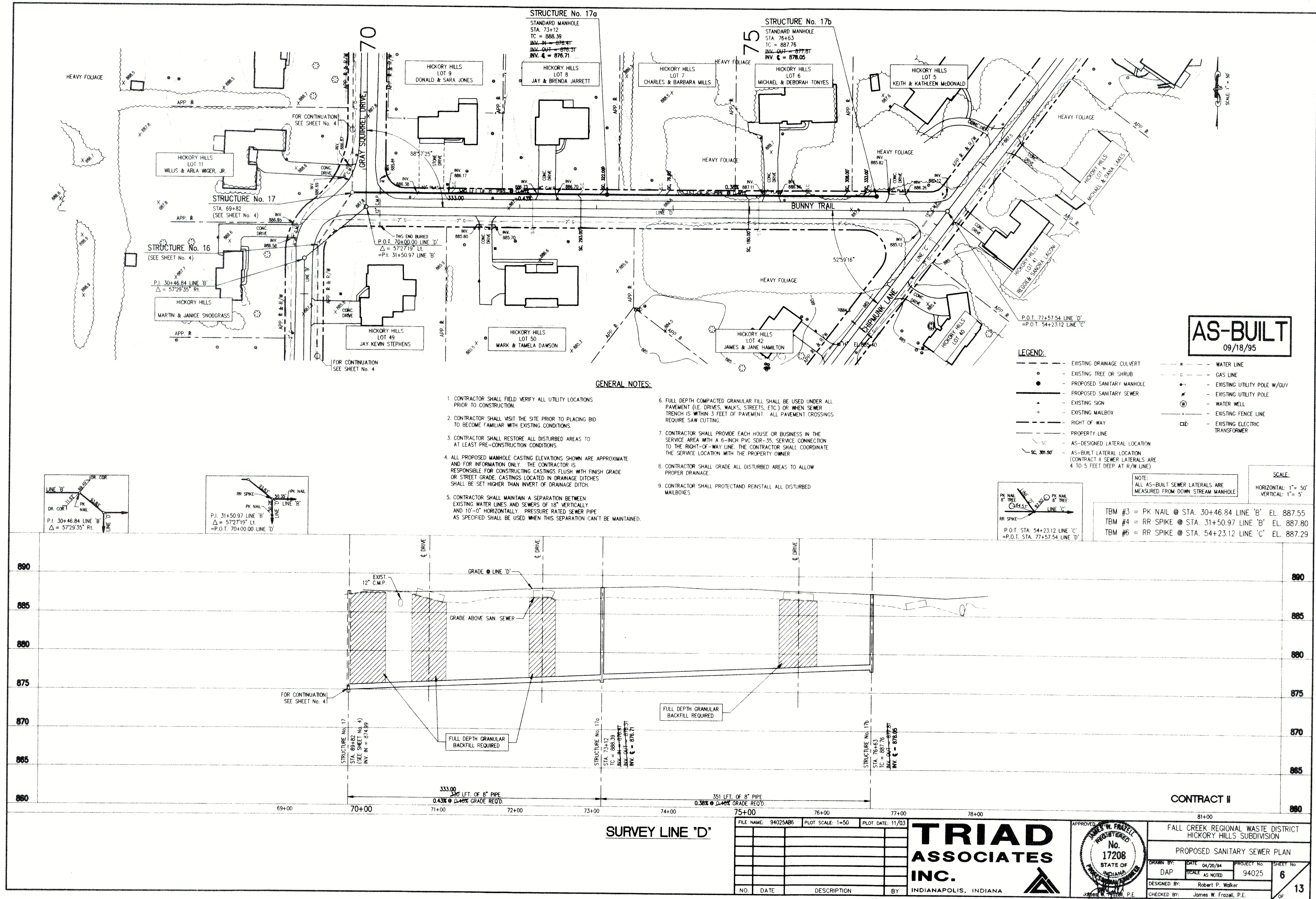
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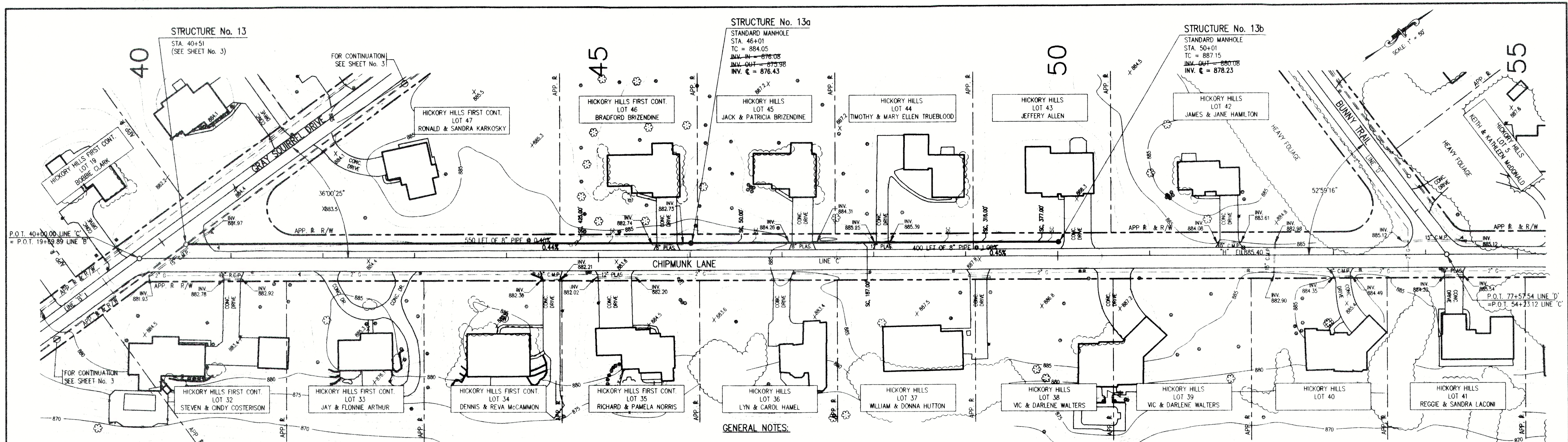
FILE NAME: 94025AB5 PLOT SCALE: 1=50 PLOT DATE: 11/03

TRIAD ASSOCIATES INC.
INDIANAPOLIS, INDIANA

APPROVED
JAMES W. FRAZELL
REGISTERED
No. 17208
STATE OF INDIANA
Professional Engineer

FALL CREEK REGIONAL WASTE DISTRICT
HICKORY HILLS SUBDIVISION
PROPOSED SANITARY SEWER PLAN
DRAWN BY: GSS/DAP DATE: 04/20/94 PROJECT No. 94025 SHEET No. 5
DESIGNED BY: Robert P. Walker
CHECKED BY: James W. Frazell, P.E.





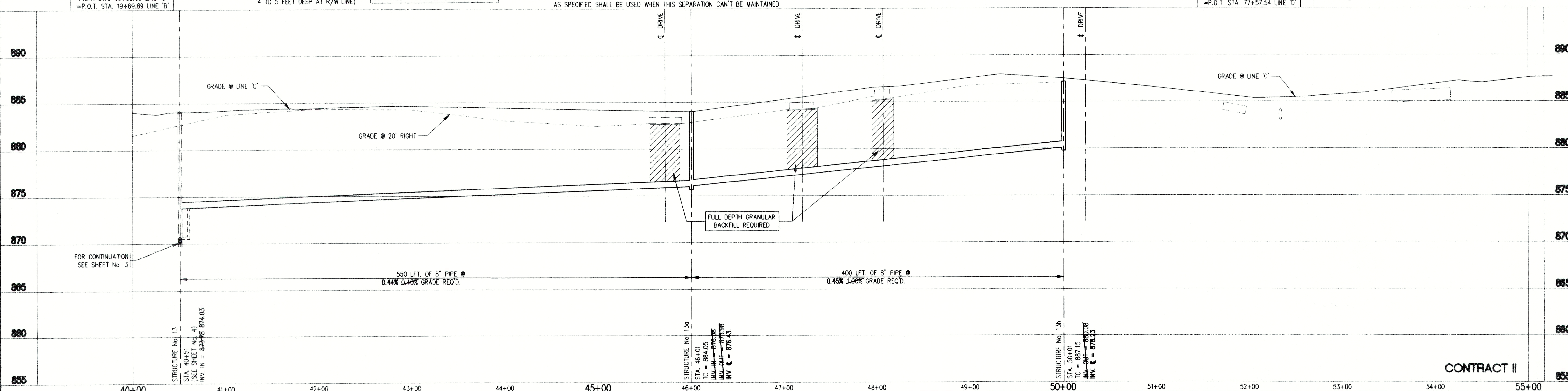
- LEGEND:**
- EXISTING DRAINAGE CULVERT
 - EXISTING TREE OR SHRUB
 - PROPOSED SANITARY MANHOLE
 - PROPOSED SANITARY SEWER
 - EXISTING SIGN
 - EXISTING MAILBOX
 - RIGHT OF WAY
 - PROPERTY LINE
 - AS-DESIGNED LATERAL LOCATION
 - AS-BUILT LATERAL LOCATION (CONTRACT II SEWER LATERALS ARE 4 TO 5 FEET DEEP AT R/W LINE)
 - WATER LINE
 - GAS LINE
 - EXISTING UTILITY POLE W/GUY
 - EXISTING UTILITY POLE
 - WATER WELL
 - EXISTING FENCE LINE
 - EXISTING ELECTRIC TRANSFORMER
- NOTE:**
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 - CONTRACTOR SHALL PROTECT AND REINSTALL ALL DISTURBED MAILBOXES.

AS-BUILT
09/18/95

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

TBM #2 = RR SPIKE @ STA. 19+69.89 LINE 'B' EL. 864.03
TBM #6 = RR SPIKE @ STA. 54+23.12 LINE 'C' EL. 887.29



SURVEY LINE 'C'

NO.	DATE	DESCRIPTION	BY

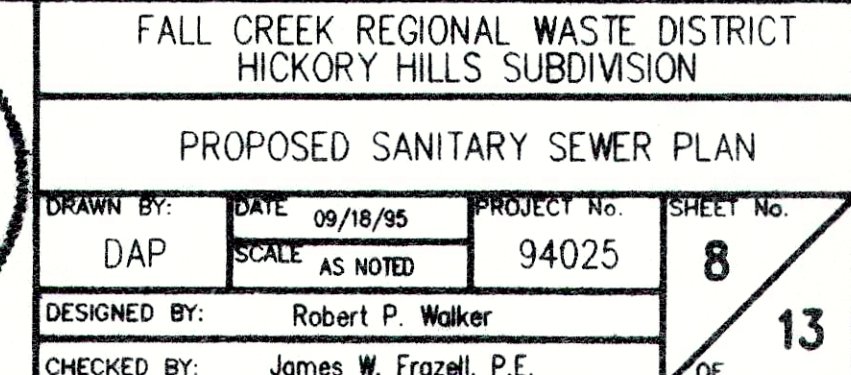
TRIAD ASSOCIATES INC.
INDIANAPOLIS, INDIANA

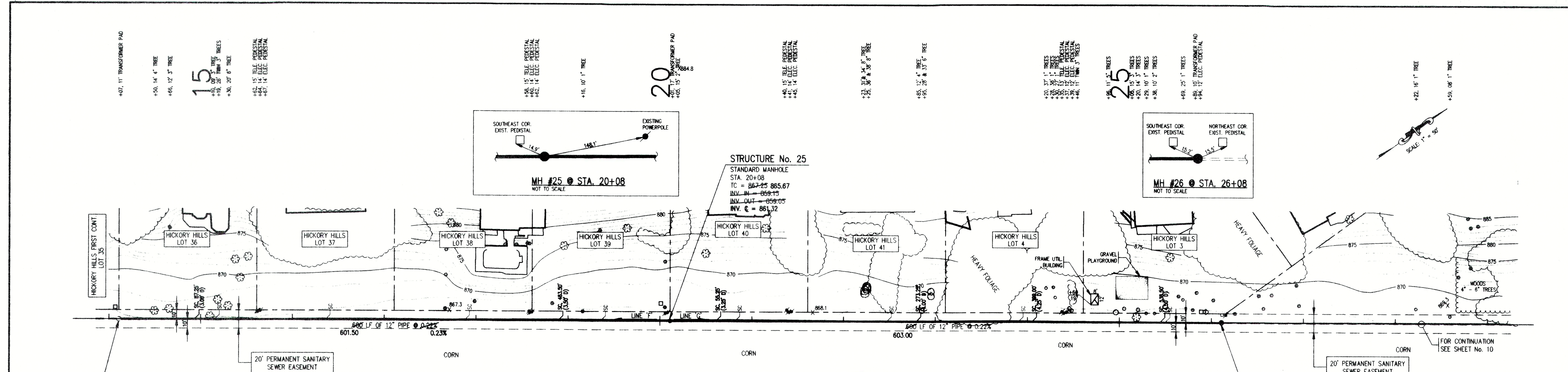
APPROVED:
JAMES W. FRAZELL
No. 17208
STATE OF INDIANA
Professional Engineer

FALL CREEK REGIONAL WASTE DISTRICT
HICKORY HILLS SUBDIVISION
PROPOSED SANITARY SEWER PLAN
DRAWN BY: DAP
DATE: 04/20/94
SCALE: AS NOTED
PROJECT No.: 94025
SHEET No.: 7
DESIGNED BY: Robert P. Walker
CHECKED BY: James W. Frazell, P.E.



TRIAD
ASSOCIATES
INC.
INDIANAPOLIS, INDIANA





STRUCTURE No. 24
STA. 14+08
(SEE SHEET No. 8)

STRUCTURE No. 25
STA. 20+08
TC = 867.25 865.67
INV. IN = 859.15
INV. OUT = 858.05
INV. C = 861.32

STRUCTURE No. 26
STA. 26+08
TC = 867.75 866.24
INV. IN = 860.37
INV. OUT = 860.47
INV. C = 862.63

LEGEND:

---	EXISTING DRAINAGE CULVERT	---	W --- WATER LINE	
●	EXISTING TREE OR SHRUB	---	G --- GAS LINE	
●	PROPOSED SANITARY MANHOLE	---	--- EXISTING UTILITY POLE W/GUY	
---	PROPOSED SANITARY SEWER	---	---	EXISTING UTILITY POLE
▲	EXISTING SIGN	⊙	W --- WATER WELL	
●	EXISTING MAILBOX	---	--- EXISTING FENCE LINE	
---	RIGHT OF WAY	⊕	--- EXISTING ELECTRIC TRANSFORMER	
---	PROPERTY LINE			
---	AS-DESIGNED LATERAL LOCATION			
---	AS-BUILT LATERAL LOCATION AND APPROXIMATE DEPTH			

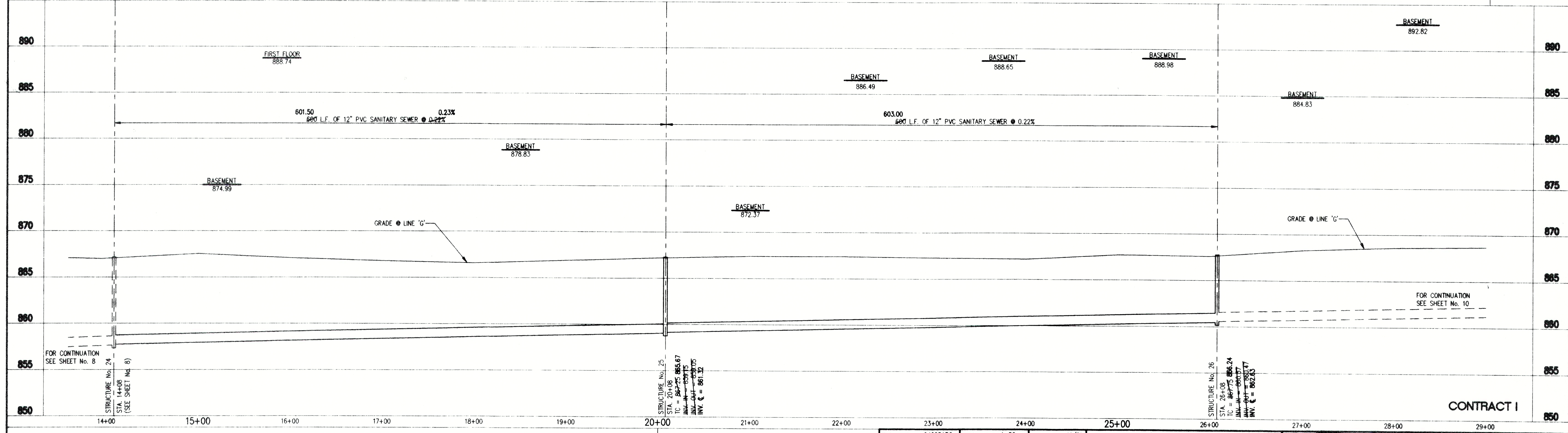
NOTE:
ALL AS-BUILT SEWER LATERALS ARE MEASURED FROM DOWN STREAM MANHOLE

GENERAL NOTES:

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AS-BUILT
09/18/95

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



STRUCTURE No. 24
STA. 14+08
(SEE SHEET No. 8)

STRUCTURE No. 25
STA. 20+08
TC = 867.25 865.67
INV. IN = 859.15
INV. OUT = 858.05
INV. C = 861.32

STRUCTURE No. 26
STA. 26+08
TC = 867.75 866.24
INV. IN = 860.37
INV. OUT = 860.47
INV. C = 862.63

CONTRACT I

FILE NAME: 94025AB2 PLOT SCALE: 1=50 PLOT DATE: 11/01

NO.	DATE	DESCRIPTION	BY

TRIAD ASSOCIATES INC.
INDIANAPOLIS, INDIANA

APPROVED
JAMES W. FRAZELL
REGISTERED
No. 17208
STATE OF INDIANA
Professional Engineer

**FALL CREEK REGIONAL WASTE DISTRICT
HICKORY HILLS SUBDIVISION**

PROPOSED SANITARY SEWER PLAN

DRAWN BY: DATE 04/20/94 PROJECT No. SHEET No.
DAP SCALE AS NOTED 94025 9

DESIGNED BY: Robert P. Walker

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

GENERAL NOTES:

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LEGEND:

- | | | | |
|-------------|---|-----|-------------------------------|
| --- | EXISTING DRAINAGE CULVERT | --- | W --- W --- WATER LINE |
| • | EXISTING TREE OR SHRUB | --- | 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 |
| --- | RIGHT OF WAY | ⊕ | EXISTING ELECTRIC TRANSFORMER |
| --- | PROPERTY LINE | | |
| SC | AS-DESIGNED LATERAL LOCATION | | |
| SC, 301.50' | AS-BUILT LATERAL LOCATION (CONTRACT II SEWER LATERALS ARE 4 TO 5 FEET DEEP AT R/W LINE) | | |

NOTE:
ALL AS-BUILT SEWER LATERALS ARE MEASURED FROM DOWN STREAM MANHOLE

STRUCTURE No. 29

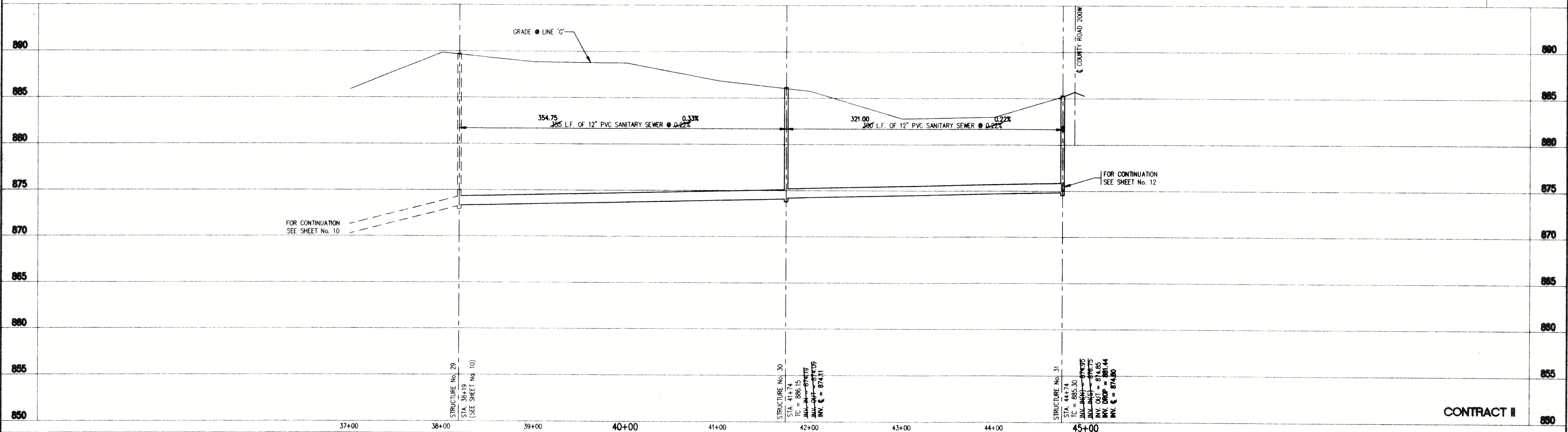
STA. 38+19
(SEE SHEET No. 10)

STRUCTURE No. 30

STANDARD MANHOLE
STA. 41+74
TC = 886.15
INV. IN = 874.19
INV. OUT = 874.09
INV. ϵ = 874.11

STRUCTURE No. 31

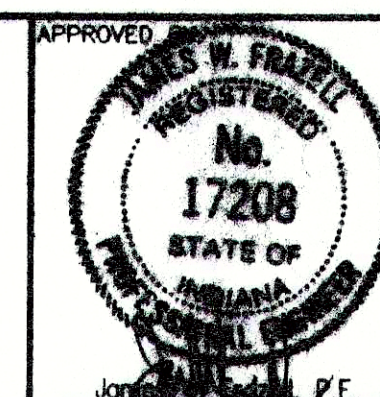
DROP STANDARD MANHOLE
STA. 44+74
TC = 885.30
INV. IN(S) = 874.95
INV. IN(N) = 874.90
INV. OUT = 874.85
INV. DROP = 881.44
INV. ϵ = 874.80



SURVEY LINE "G"

FILE NAME:	94025B11	PLOT SCALE:	1"=50'	PLOT DATE:	11/02
NO.	DATE	DESCRIPTION	BY	APPROVED	

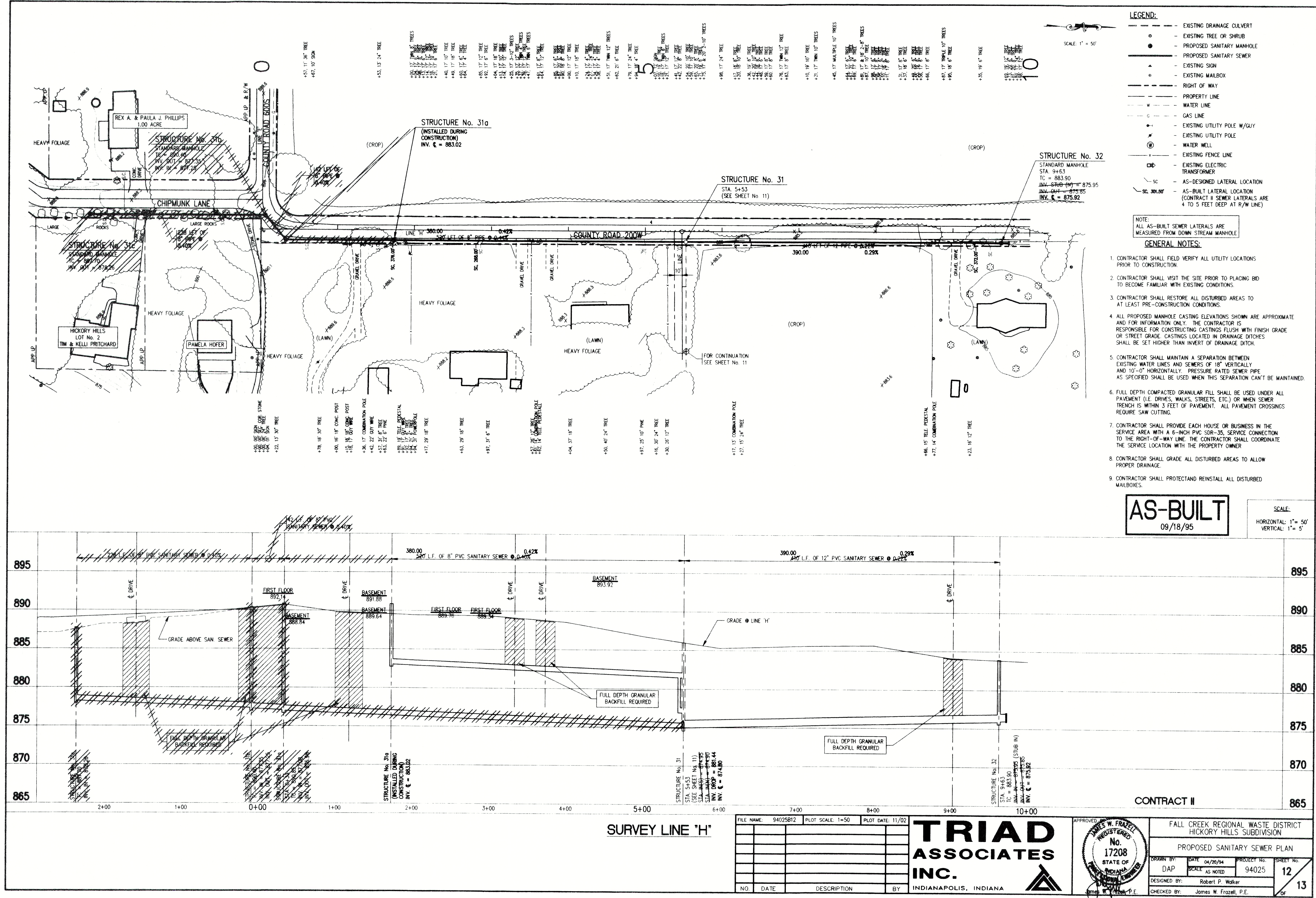
TRIAD ASSOCIATES INC.
INDIANAPOLIS, INDIANA

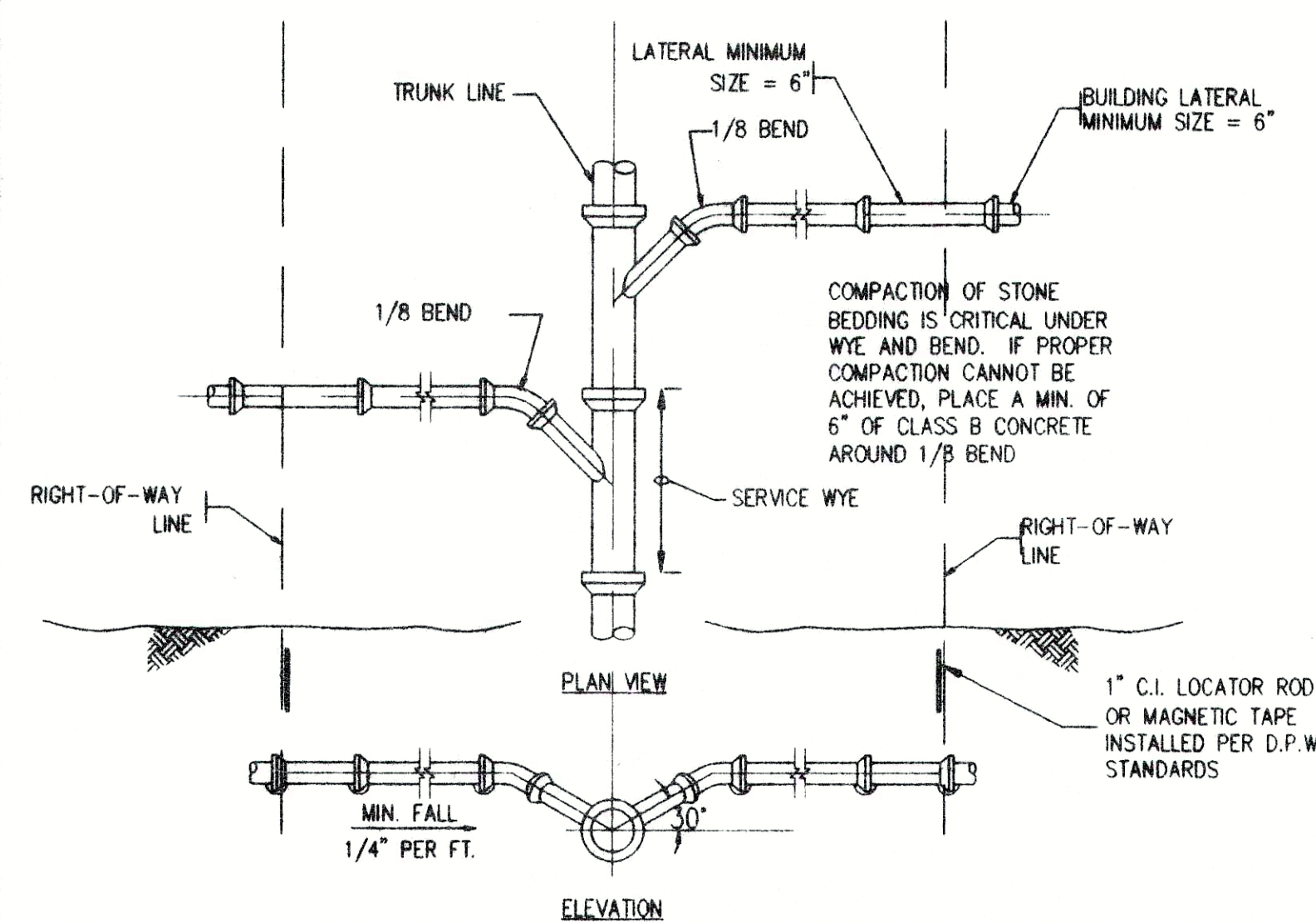


FALL CREEK REGIONAL WASTE DISTRICT
HICKORY HILLS SUBDIVISION
PROPOSED SANITARY SEWER PLAN
DESIGNED BY: Robert P. Walker
CHECKED BY: James W. Frazell, P.E.
DATE: 04/20/94
SCALE: AS NOTED
PROJECT No. 94025
SHEET No. 11 OF 13

AS-BUILT
09/18/95

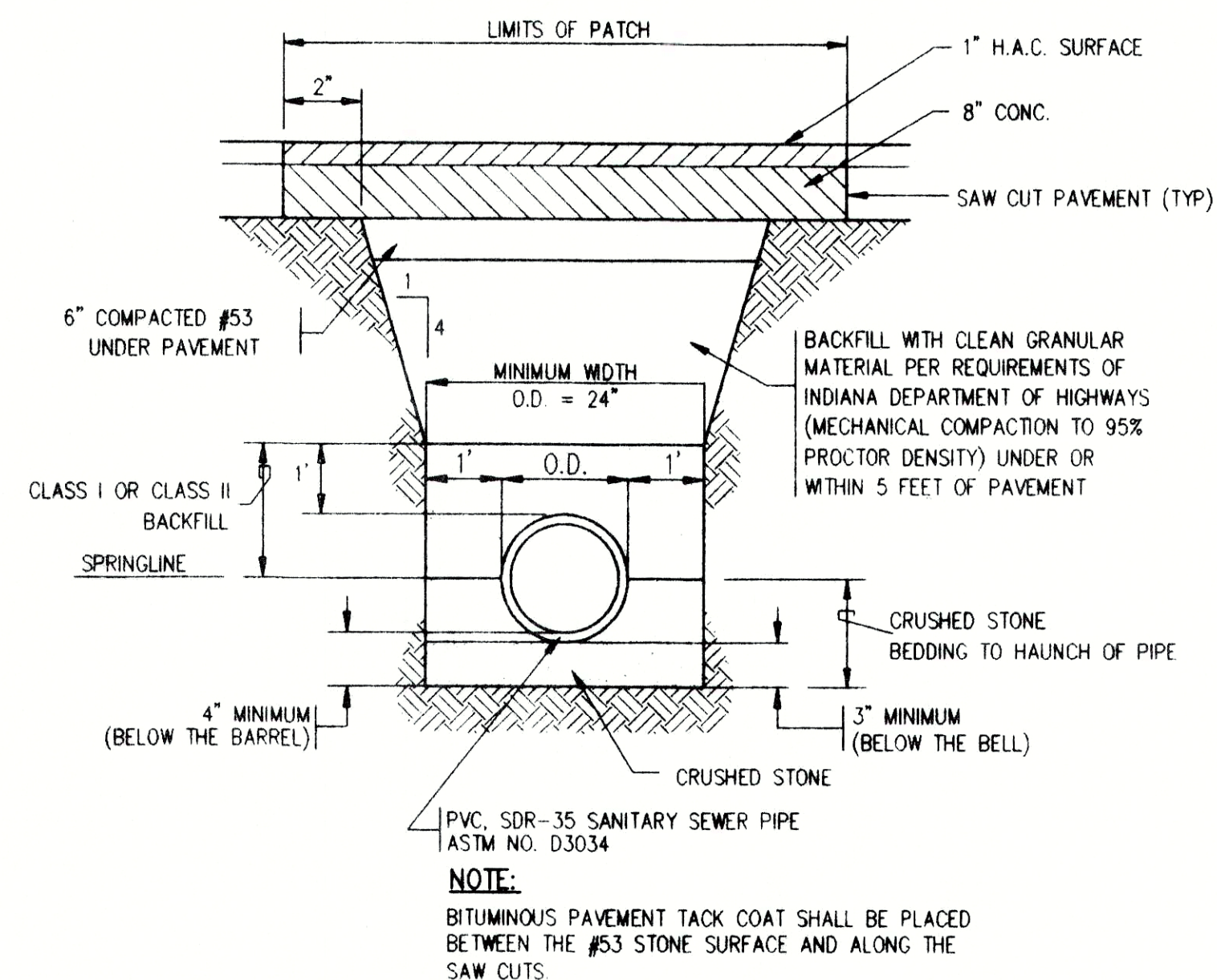
SCALE:
HORIZONTAL: 1"= 50'
VERTICAL: 1"= 5'



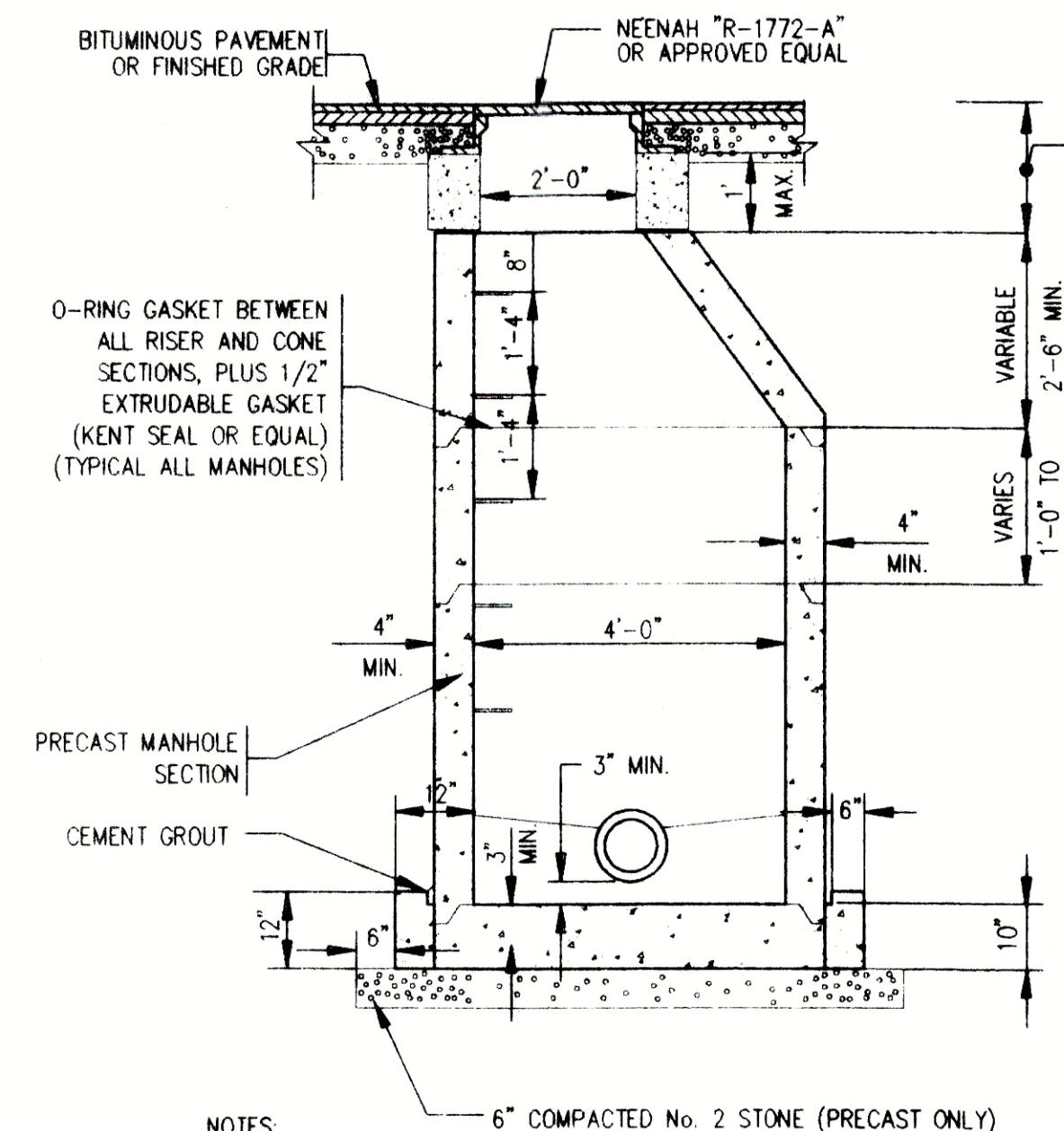


- NOTES:
1. CONTRACTOR TO ADEQUATELY PLUG AND MARK SERVICE LINE WHERE TERMINATED.
 2. ALL SERVICE PIPE TO BE PVC SDR-35.
 3. CONTRACTOR SHALL EXTEND SERVICE LATERALS TO PROPERTY LINE.

1 **SERVICE CONNECTION DETAIL**
SCALE: N.T.S.

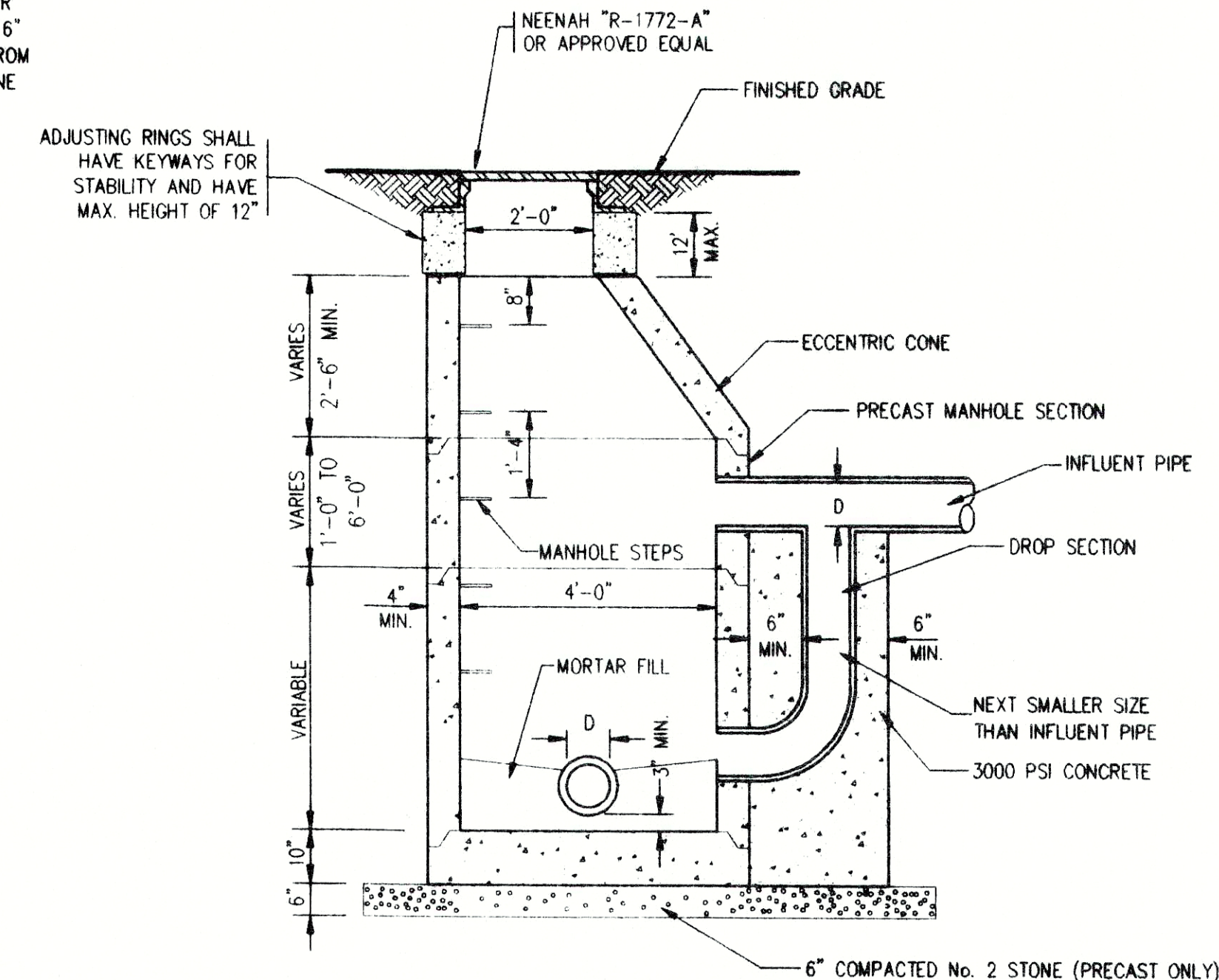


2 **TYPICAL TRENCH AND PAVEMENT PATCH DETAIL**
SCALE: N.T.S.

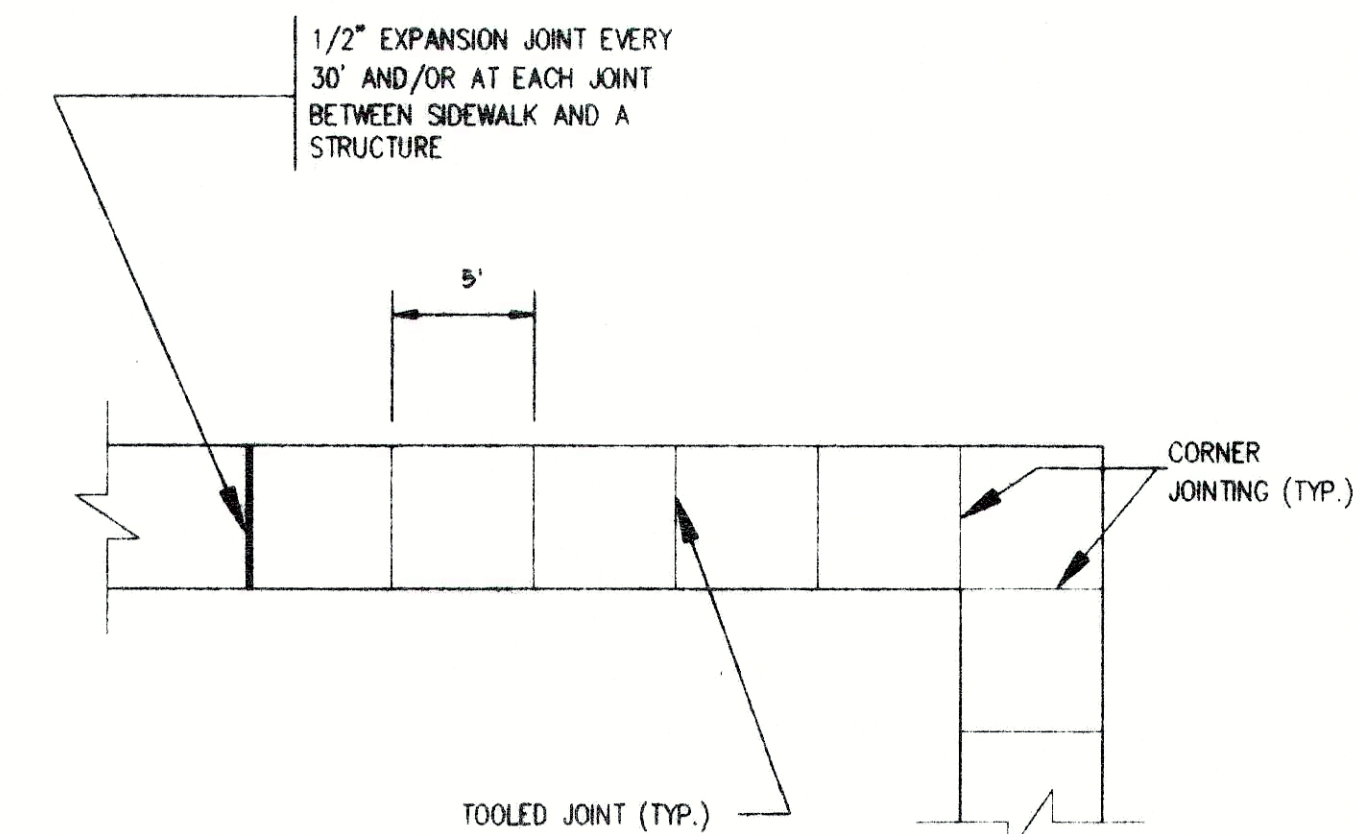


- NOTES:
1. MANHOLE STEPS SHALL BE POLYPROPYLENE, POLYPROPYLENE COATED STEEL REINFORCING OR APPROVED NON-CORROSIVE FIBERGLASS MATERIAL. COPOLYMER POLYPROPYLENE SHALL MEET ASTM D-4101 REINFORCED WITH DEFORMED 3/8" STEEL MEETING ASTM A-615, GRADE 60.
 2. MANHOLE CONFORMS TO ASTM C-478. JOINT CONFORMS TO ASTM C-443.

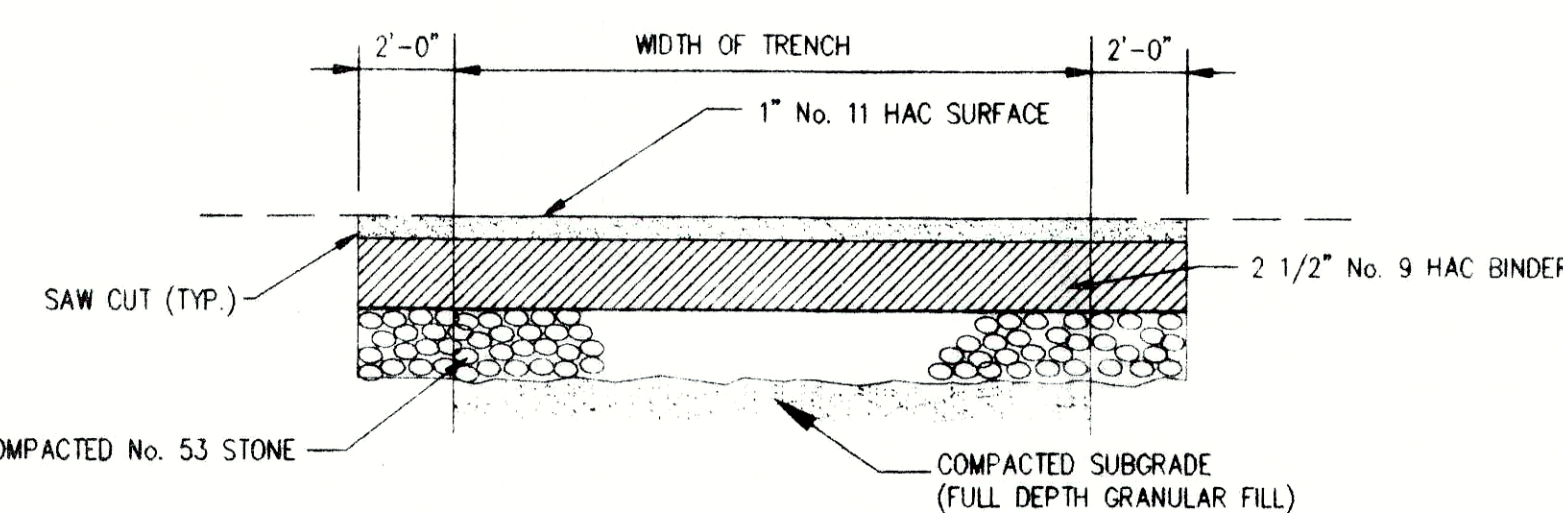
4 **SANITARY MANHOLE**
SCALE: N.T.S.



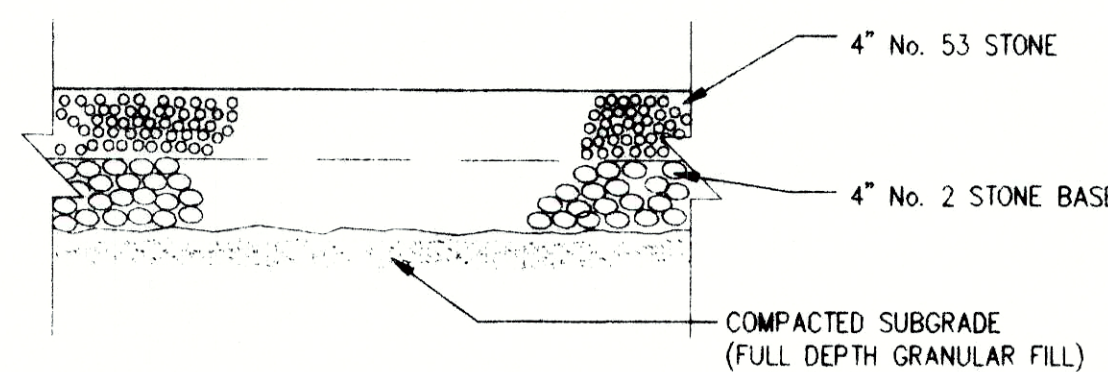
3 **DROP MANHOLE**
SCALE: N.T.S.



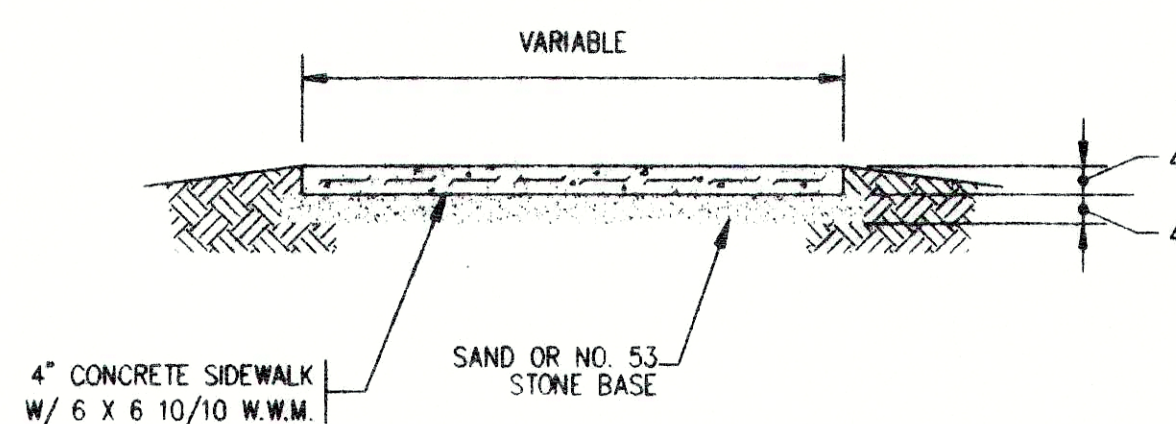
5 **TYPICAL SIDEWALK DETAIL**
SCALE: N.T.S.



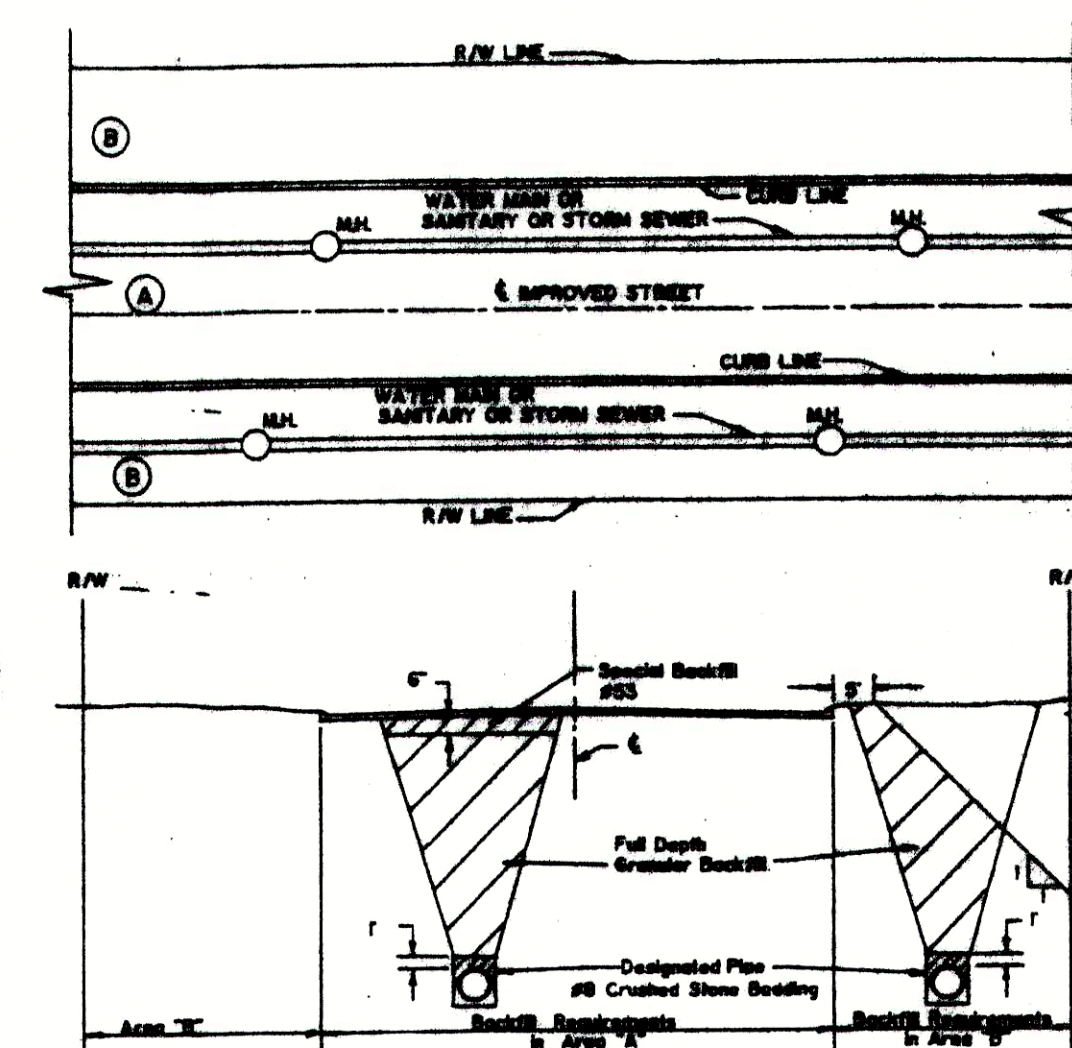
6 **ASPHALT DRIVE REPAIR DETAIL**
SCALE: N.T.S.



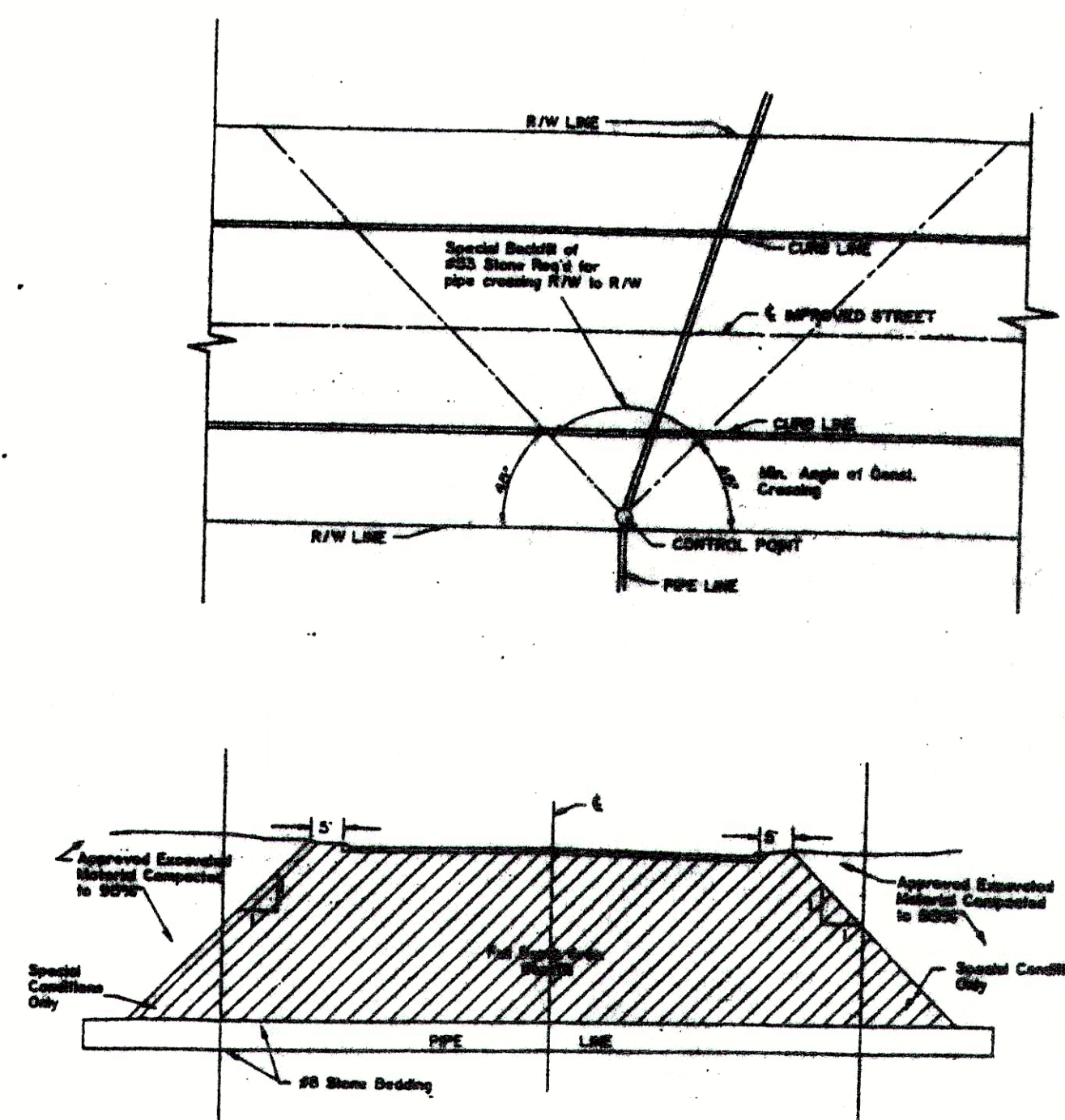
7 **STONE DRIVE REPAIR DETAIL**
SCALE: N.T.S.



8 **CONCRETE DRIVE REPAIR DETAIL**
SCALE: N.T.S.



BACKFILL REQUIREMENTS
(FOR PIPELINES WITHIN RIGHT-OF-WAY FOR IMPROVED STREETS)



BACKFILL REQUIREMENTS
(FOR PIPELINES CROSSING RIGHT-OF-WAY FOR IMPROVED STREETS)

AS-BUILT
09/18/95

FILE NAME:	ABDETAIL	PLOT SCALE:	1=1	PLOT DATE:	11/03
NO.	DATE	DESCRIPTION	BY	DATE	DESCRIPTION

TRIAD ASSOCIATES INC.
INDIANAPOLIS, INDIANA

JAMES W. FRAZELL
REGISTERED
No. 17208
STATE OF INDIANA
Professional Engineer

FALL CREEK REGIONAL WASTE DISTRICT
HICKORY HILLS SUBDIVISION
STANDARD SANITARY SEWER DETAILS
DRAWN BY: DAP
DATE: 04/20/94
SCALE: AS NOTED
PROJECT No. 94025
SHEET No. 13
DESIGNED BY: Robert P. Walker
CHECKED BY: James W. Frazell, P.E.