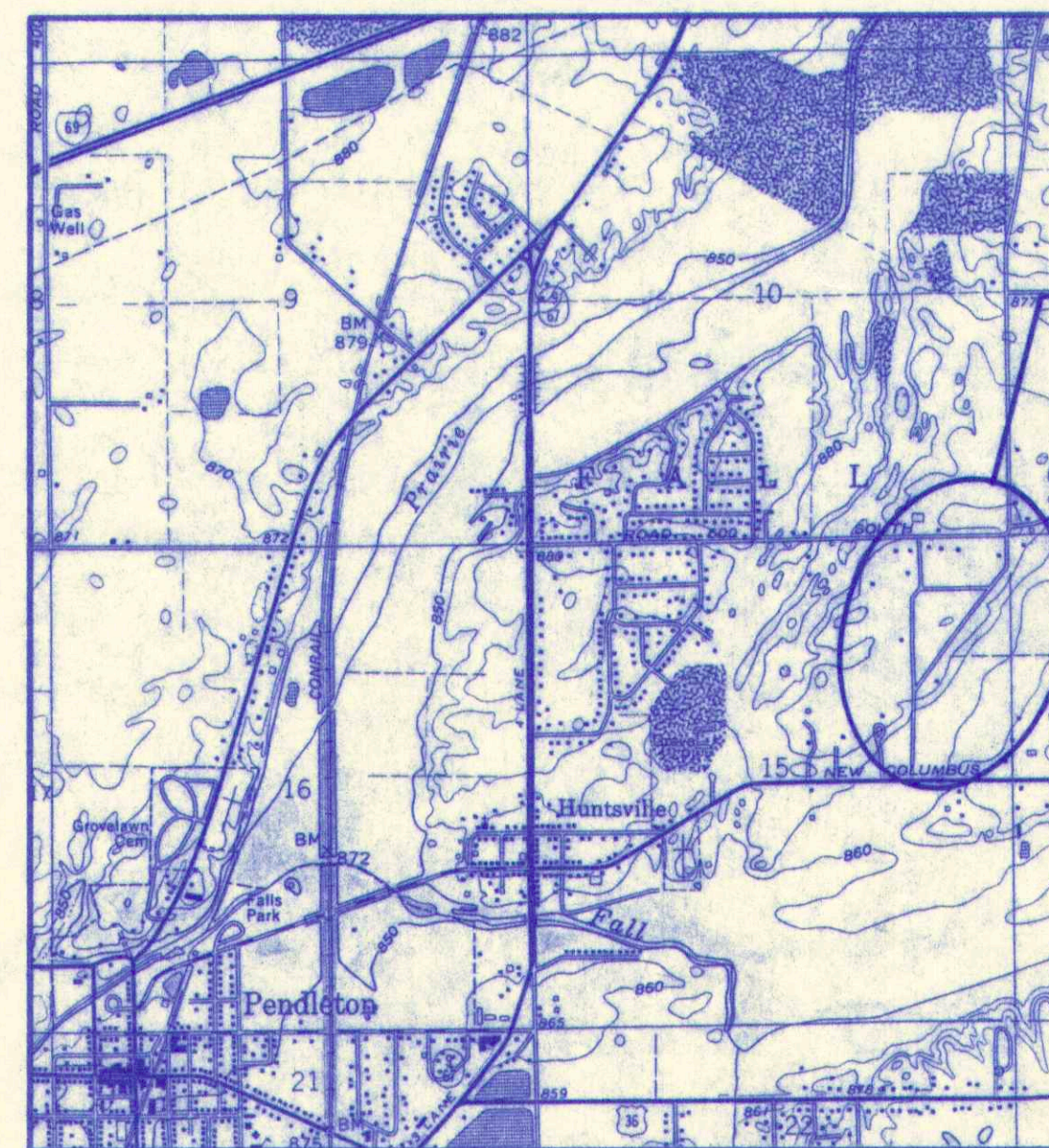


HICKORY HILLS SUBDIVISION FALL CREEK REGIONAL WASTE DISTRICT MADISON COUNTY, INDIANA SANITARY SEWER IMPROVEMENTS 1995

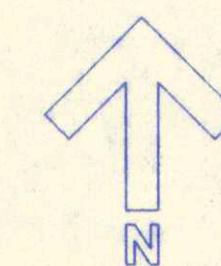
SHEET INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	PROPOSED BASE MAP
3	SANITARY SEWER PLAN & PROFILE — LINE 'B'
4	SANITARY SEWER PLAN & PROFILE — LINE 'B'
5	SANITARY SEWER PLAN & PROFILE — LINE 'E'
6	SANITARY SEWER PLAN & PROFILE — LINE 'D'
7	SANITARY SEWER PLAN & PROFILE — LINE 'C'
8	SANITARY SEWER PLAN & PROFILE — LINE 'F'
9	SANITARY SEWER PLAN & PROFILE — LINE 'F' & 'G'
10	SANITARY SEWER PLAN & PROFILE — LINE 'G'
11	SANITARY SEWER PLAN & PROFILE — LINE 'G'
12	SANITARY SEWER PLAN & PROFILE — LINE 'H'
13	STANDARD SANITARY SEWER DETAILS

AREA MAP

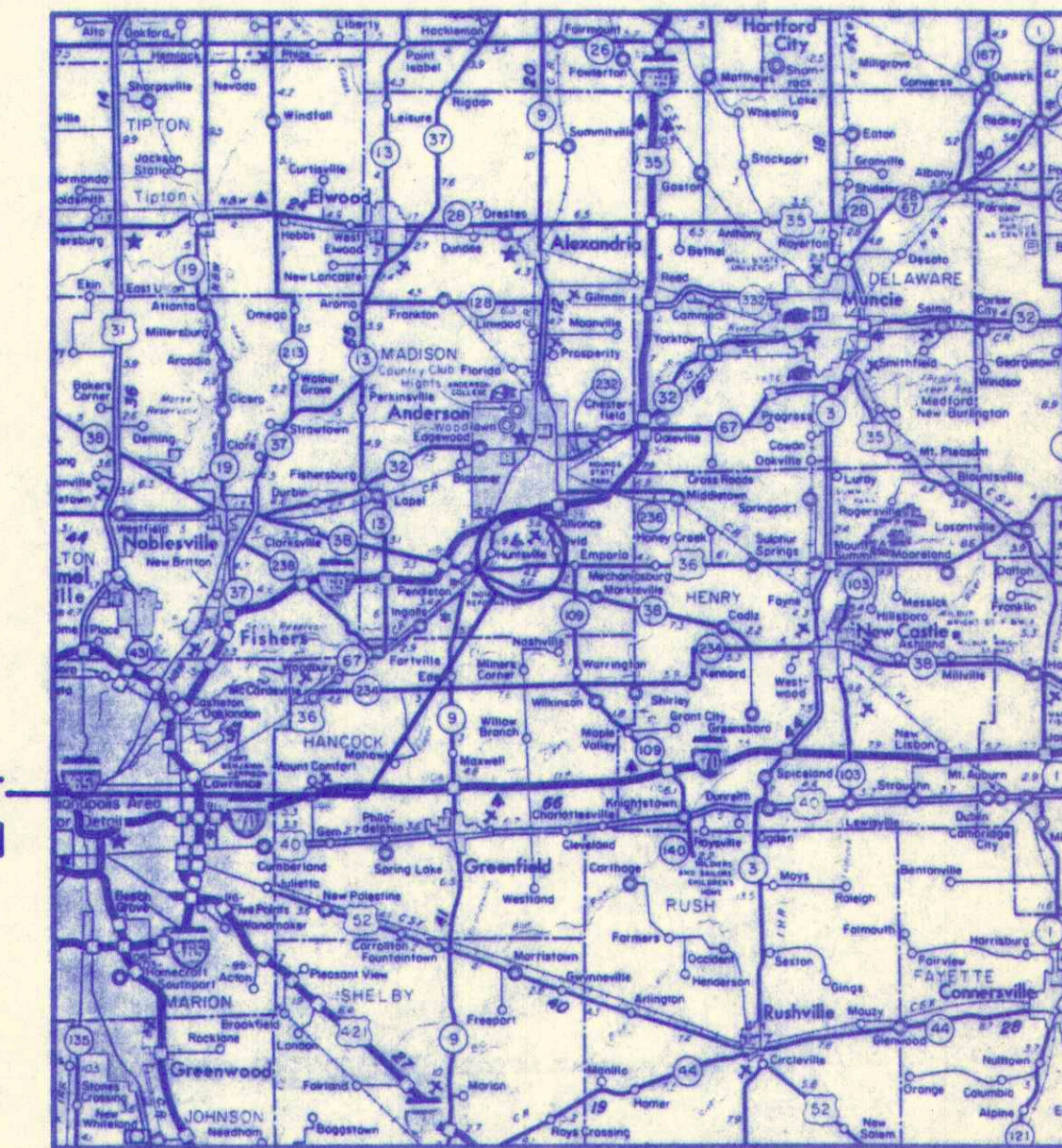


AREA LOCATION



PROJECT LOCATION

LOCATION MAP



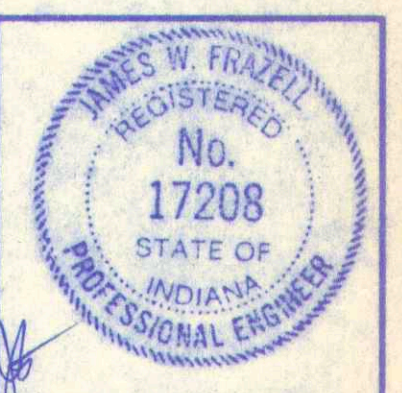
FALL CREEK REGIONAL WASTE DISTRICT BOARD

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

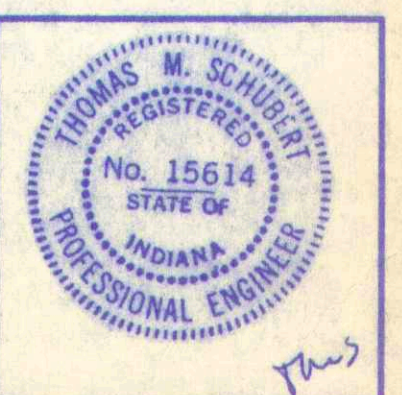
AS-BUILT
09/18/95

THESE PLANS CERTIFIED BY:

James W. Frazell, Professional Engineer



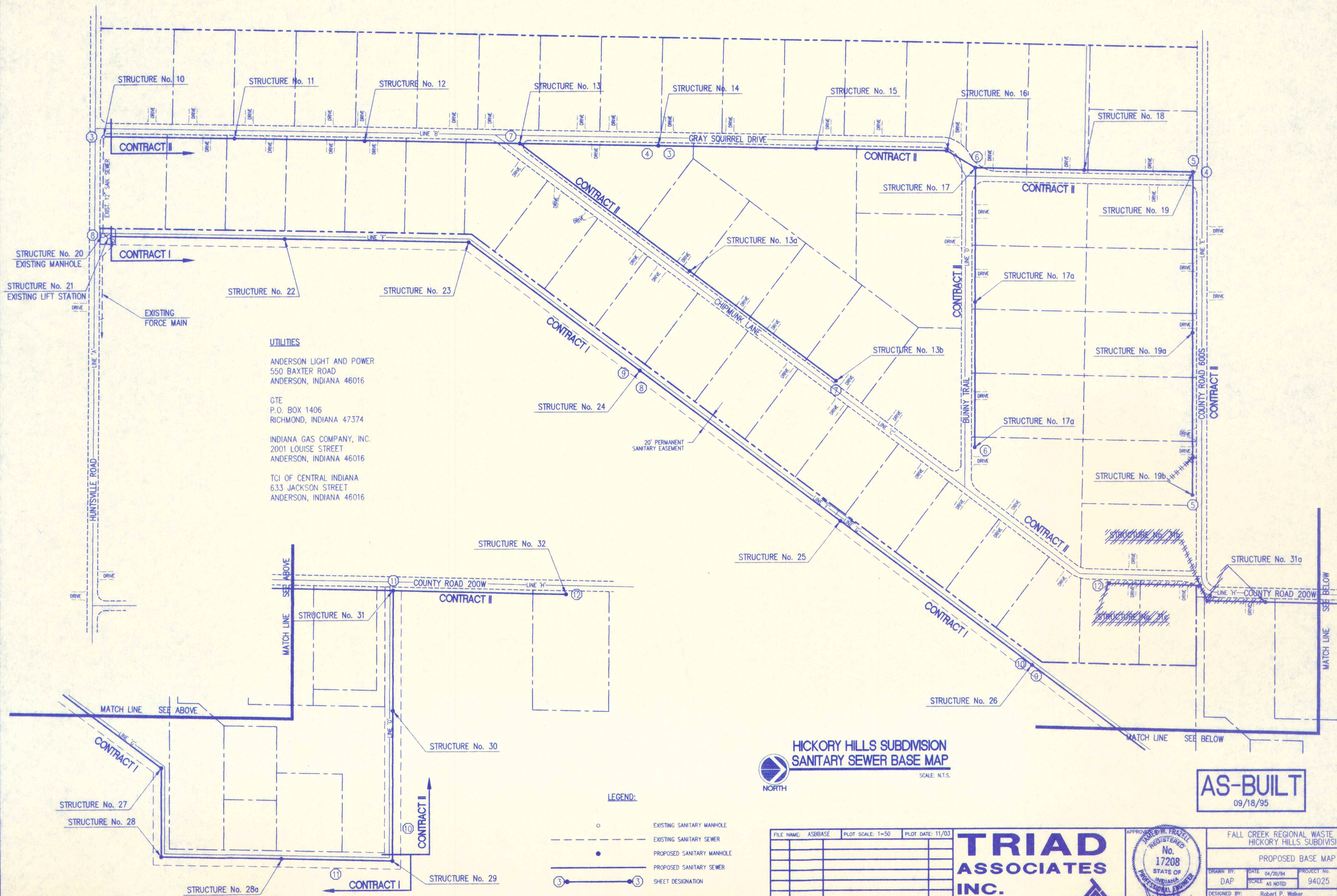
Thomas M. Schubert, Professional Engineer



PLANS PREPARED BY:

TRIAD
ASSOCIATES
INC.
INDIANAPOLIS, INDIANA





UTILITIES

ANDERSON LIGHT AND POWER
550 BAXTER ROAD
ANDERSON, INDIANA 46016

GTE
P.O. BOX 1406
RICHMOND, INDIANA 47374

INDIANA GAS COMPANY, INC.
2001 LOUISE STREET
ANDERSON, INDIANA 46016

TCI OF CENTRAL INDIANA
633 JACKSON STREET
ANDERSON, INDIANA 46016

**HICKORY HILLS SUBDIVISION
SANITARY SEWER BASE MAP**

SCALE: N.T.S.



- LEGEND:**
- EXISTING SANITARY MANHOLE
 - EXISTING SANITARY SEWER
 - PROPOSED SANITARY MANHOLE
 - PROPOSED SANITARY SEWER
 - ③—③ SHEET DESIGNATION

AS-BUILT
09/18/95

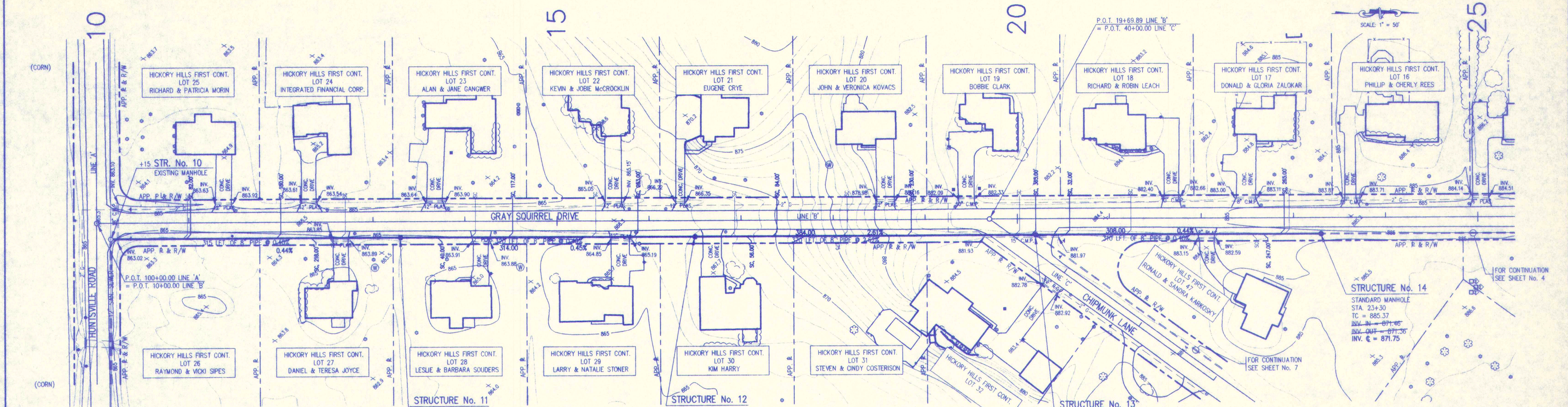
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NO.	DATE	DESCRIPTION	BY		

TRIAD ASSOCIATES INC.

INDIANAPOLIS, INDIANA



FALL CREEK REGIONAL WASTE DISTRICT HICKORY HILLS SUBDIVISION			
PROPOSED BASE MAP			
DRAWN BY:	DATE: 04/20/94	PROJECT No.:	SHEET No.:
DAP	SCALE: AS NOTED	94025	2
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.
 - 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, 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.
 - CONTRACTOR SHALL PROTECT AND REINSTALL ALL DISTURBED MAILBOXES.

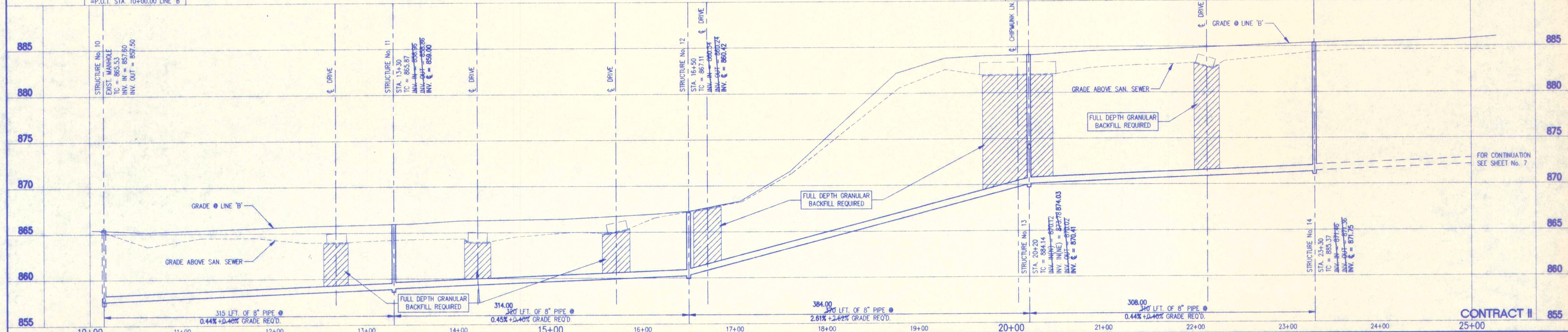
LEGEND:

- 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



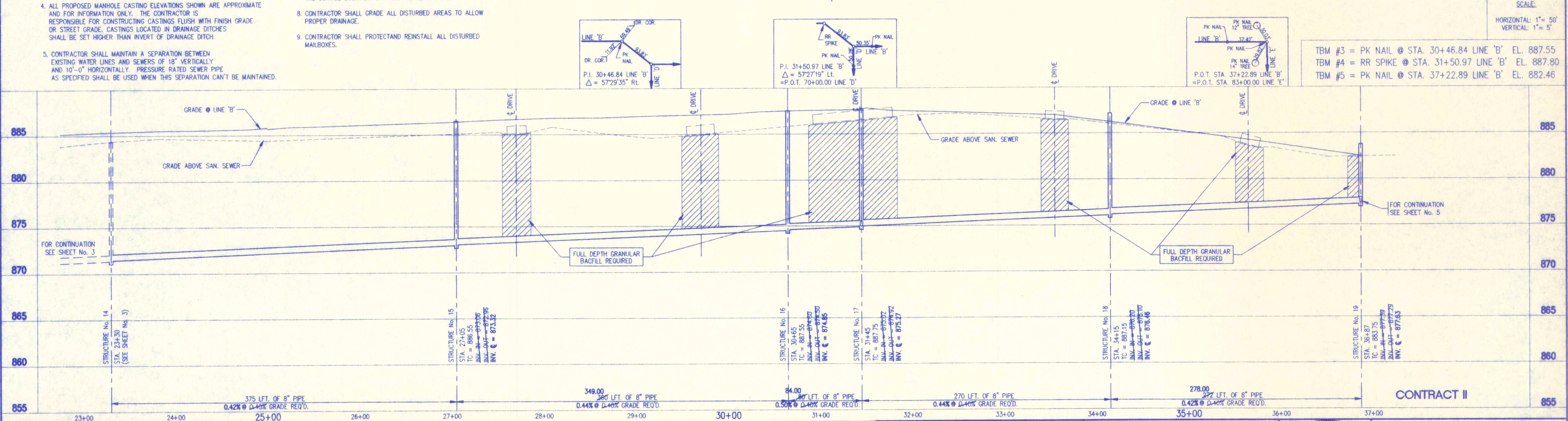
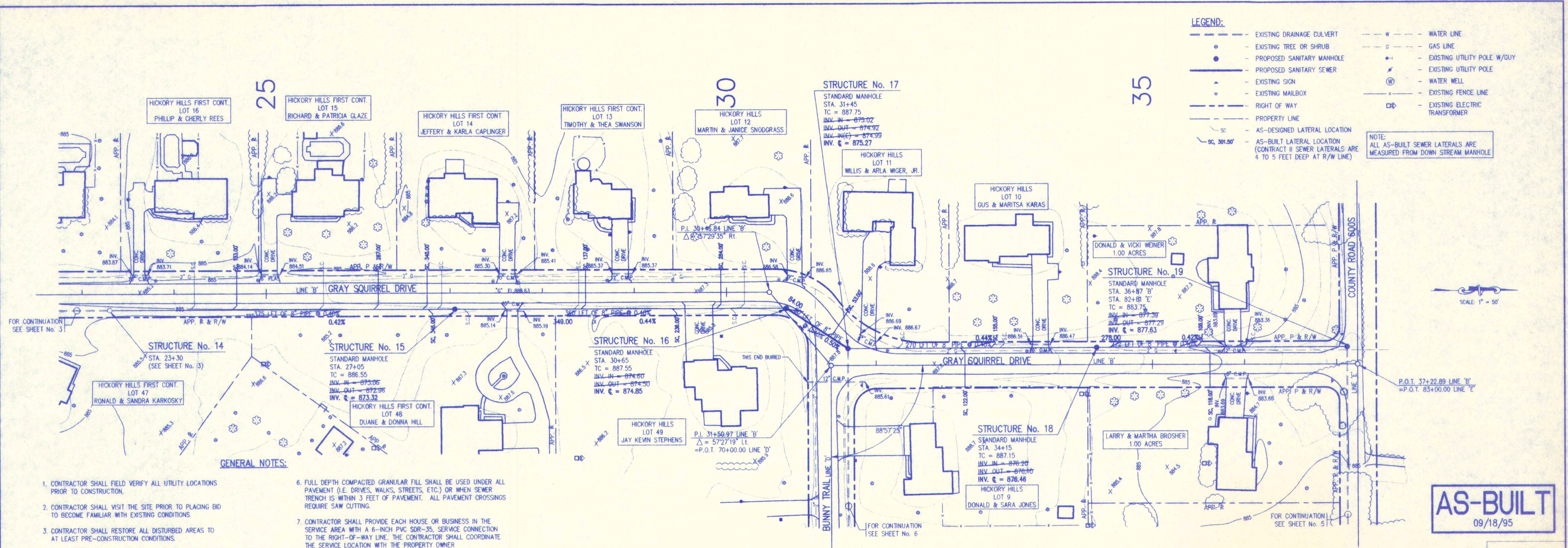
SURVEY LINE "B"

FILE NAME:	94025AB3	PLOT SCALE:	1"=50'	PLOT DATE:	11/03
NO.	DATE	DESCRIPTION	BY		

TRIAD ASSOCIATES INC.
INDIANAPOLIS, INDIANA

APPROVED BY
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: DAP/GSS
DATE: 04/20/94
SCALE: AS NOTED
PROJECT NO.: 94025
SHEET NO.: 3
DESIGNED BY: Robert P. Walker
CHECKED BY: James W. Frazell, P.E.



SURVEY LINE "B"

FILE NAME: 94025AB4 PLOT SCALE: 1"=50' PLOT DATE: 11/03

NO.	DATE	DESCRIPTION	BY

TRIAD ASSOCIATES INC.

INDIANAPOLIS, INDIANA

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

DATE: 04/20/94 PROJECT No. 94025 SHEET No. 4 OF 13

DESIGNED BY: Robert P. Walker CHECKED BY: James W. Frazel, P.E.

CONTRACT II

FALL CREEK REGIONAL WASTE DISTRICT HICKORY HILLS SUBDIVISION

PROPOSED SANITARY SEWER PLAN

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.

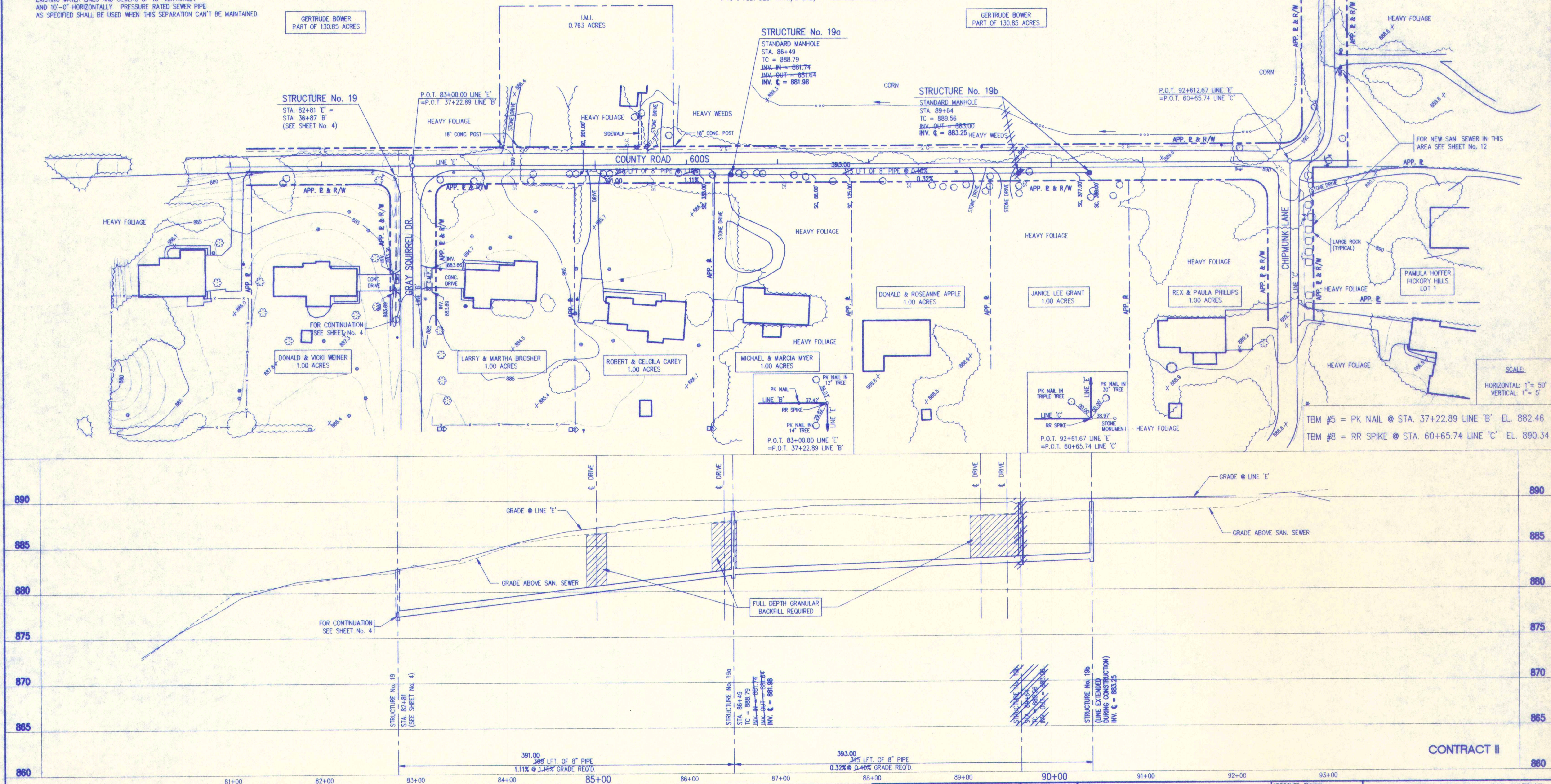
LEGEND:

- 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

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

SURVEY LINE "E"

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

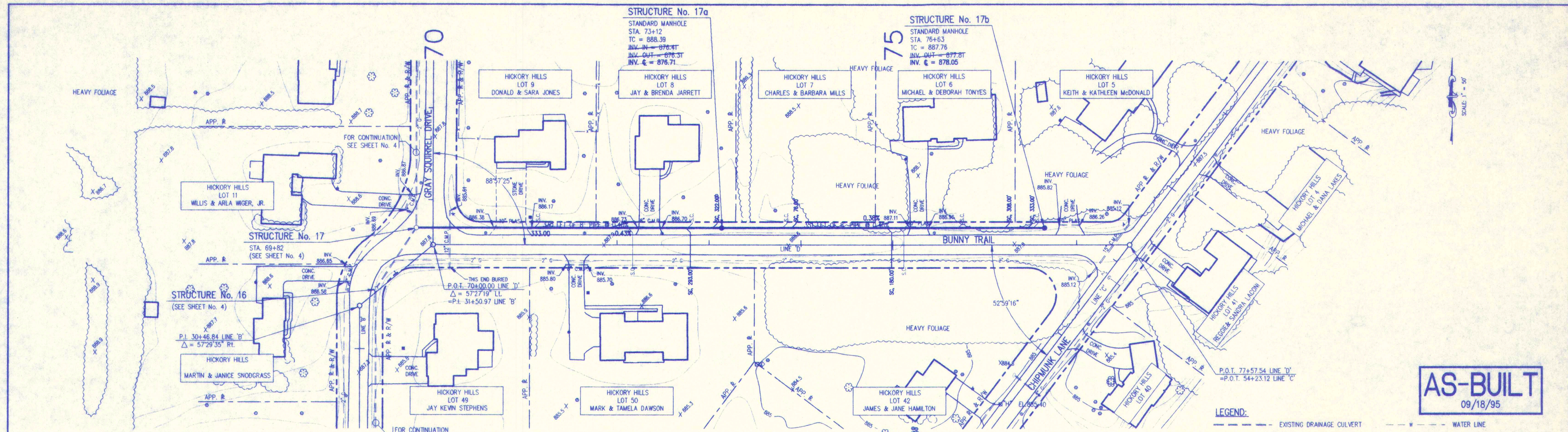
NO.	DATE	DESCRIPTION	BY

TRIAD ASSOCIATES INC.
INDIANAPOLIS, INDIANA

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

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. Frazel, P.E.

13



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.
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- CONTRACTOR SHALL PROTECT AND REINSTALL ALL DISTURBED MAILBOXES.

LEGEND:

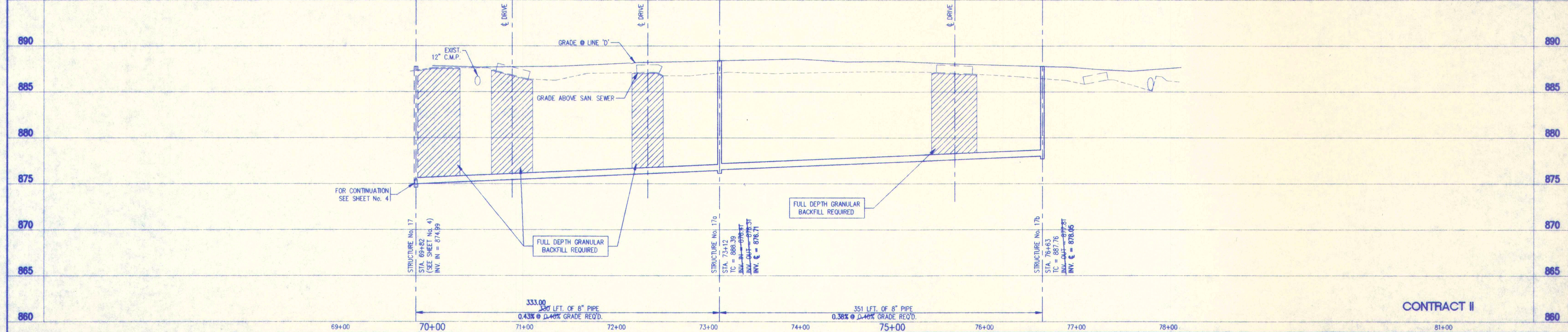
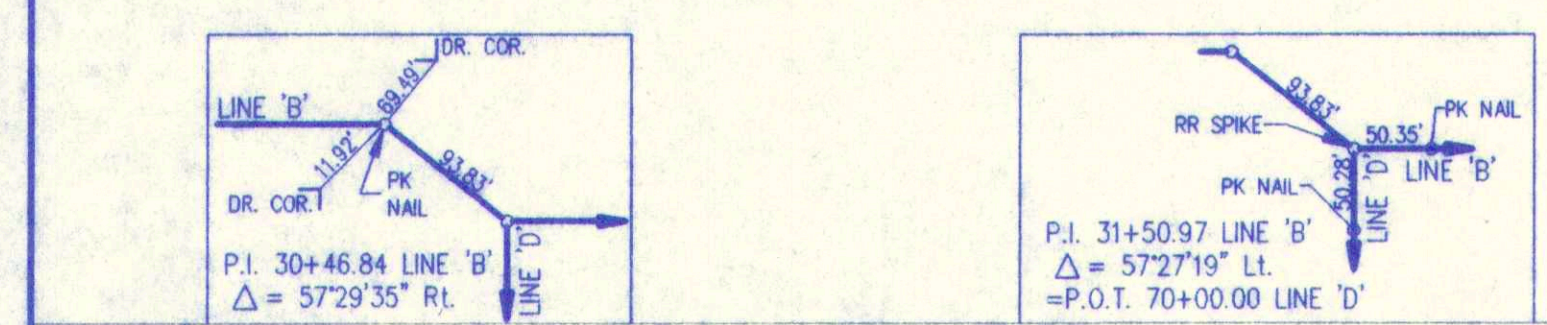
- EXISTING DRAINAGE CULVERT
- EXISTING TREE OR SHRUB
- PROPOSED SANITARY MANHOLE
- PROPOSED SANITARY SEWER
- EXISTING SIGN
- EXISTING MAILBOX
- RIGHT OF WAY
- PROPERTY LINE
- AS-DESIGNED LATERAL LOCATION
- AS-BUILT LATERAL LOCATION (CONTRACT II SEWER LATERALS ARE 4 TO 5 FEET DEEP AT R/W LINE)
- WATER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

AS-BUILT
09/18/95

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

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

TBM #3 = PK NAIL @ STA. 30+46.84 LINE 'B' EL. 887.55
TBM #4 = RR SPIKE @ STA. 31+50.97 LINE 'B' EL. 887.80
TBM #6 = RR SPIKE @ STA. 54+23.12 LINE 'C' EL. 887.29



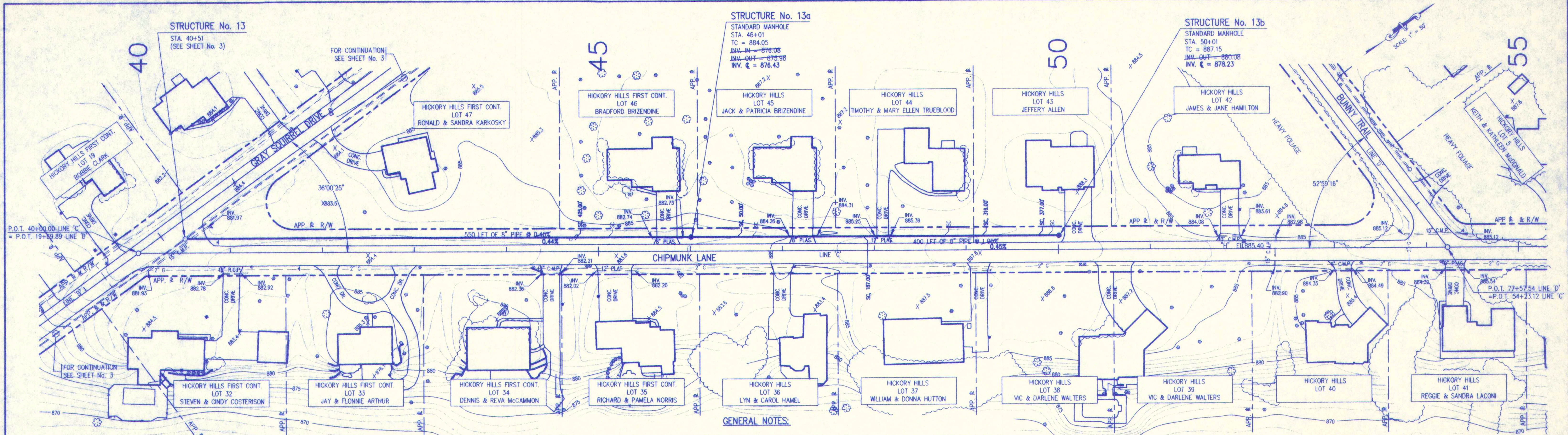
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FILE NAME:	94025AB6	PLOT SCALE:	1"=50'	PLOT DATE:	11/03
NO.	DATE	DESCRIPTION	BY		

TRIAD ASSOCIATES INC.
INDIANAPOLIS, INDIANA

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

FALL CREEK REGIONAL WASTE DISTRICT
HICKORY HILLS SUBDIVISION
PROPOSED SANITARY SEWER PLAN
DRAWN BY: DAP
DATE: 04/20/94
SCALE: AS NOTED
DESIGNED BY: Robert P. Walker
CHECKED BY: James W. Frazell, P.E.
PROJECT No.: 94025
SHEET No.: 6
OF 13

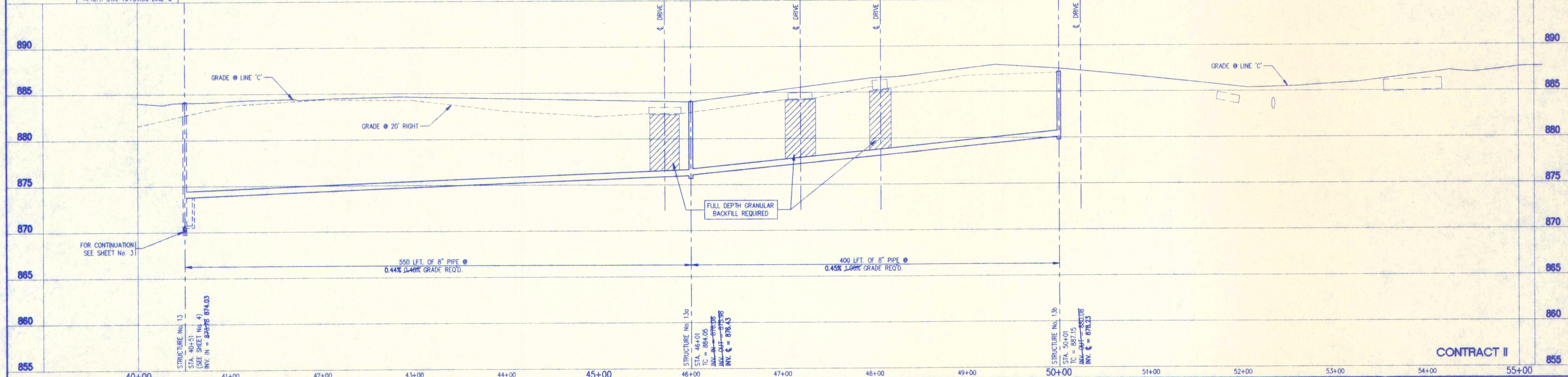


- LEGEND:**
- EXISTING DRAINAGE CULVERT
 - EXISTING TREE OR SHRUB
 - PROPOSED SANITARY MANHOLE
 - PROPOSED SANITARY SEWER
 - EXISTING SIGN
 - EXISTING MAILBOX
 - RIGHT OF WAY
 - PROPERTY LINE
 - AS-DESIGNED LATERAL LOCATION
 - AS-BUILT LATERAL LOCATION (CONTRACT II SEWER LATERALS ARE 4 TO 5 FEET DEEP 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:
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

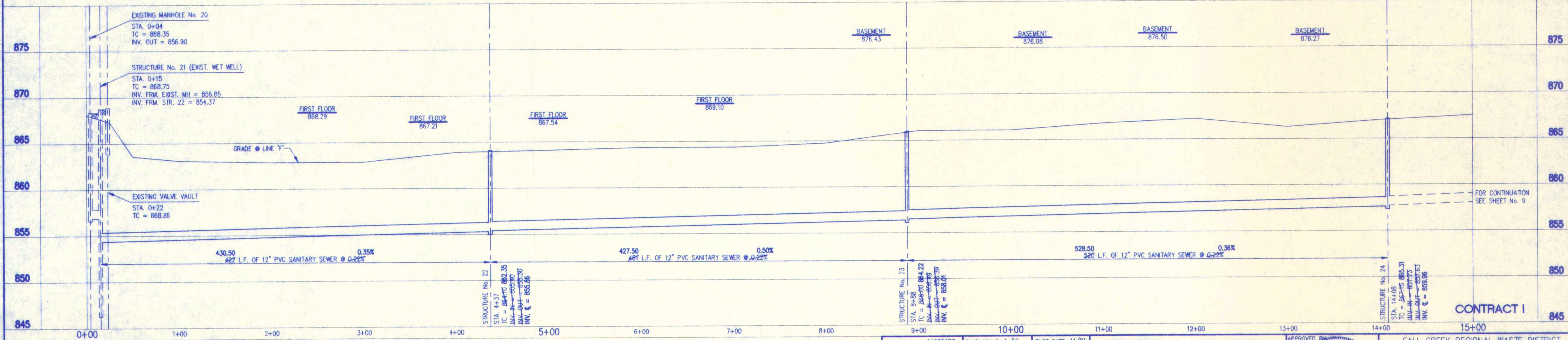
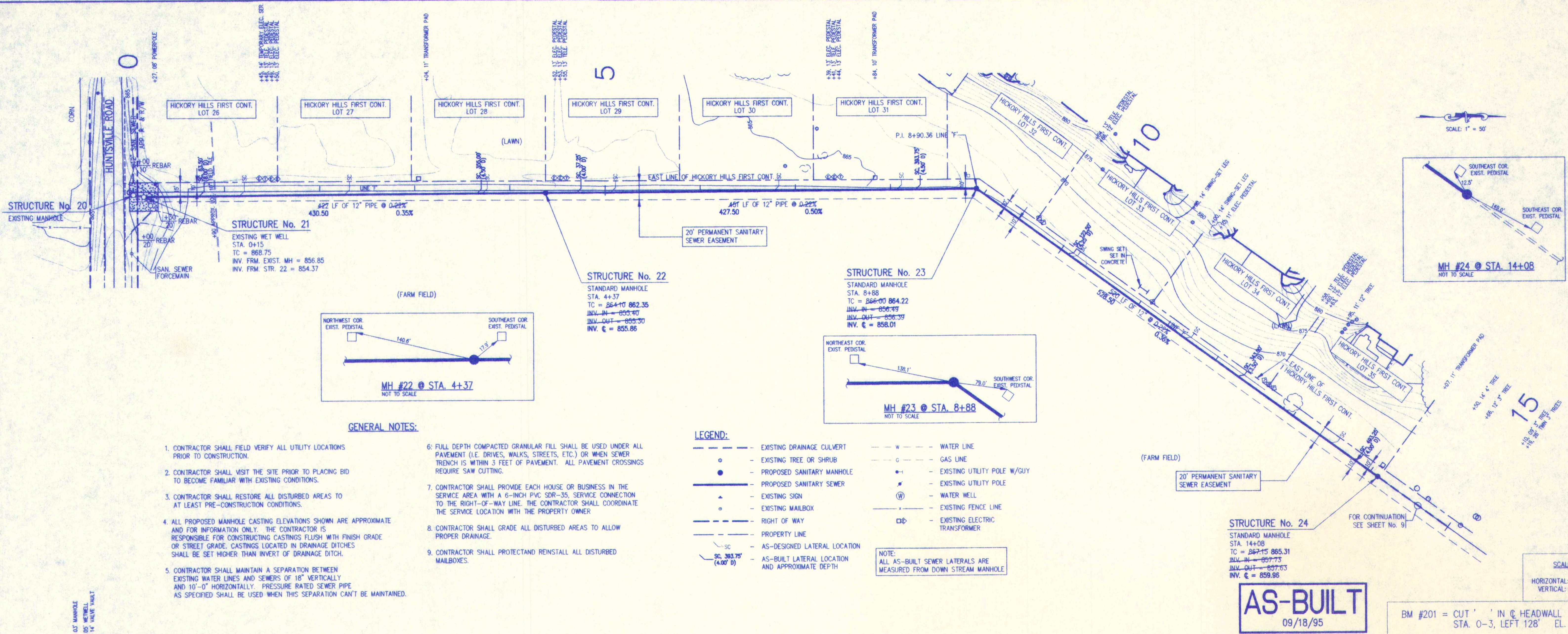
TRIAD ASSOCIATES INC.
INDIANAPOLIS, INDIANA

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

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.: 7
OF 13



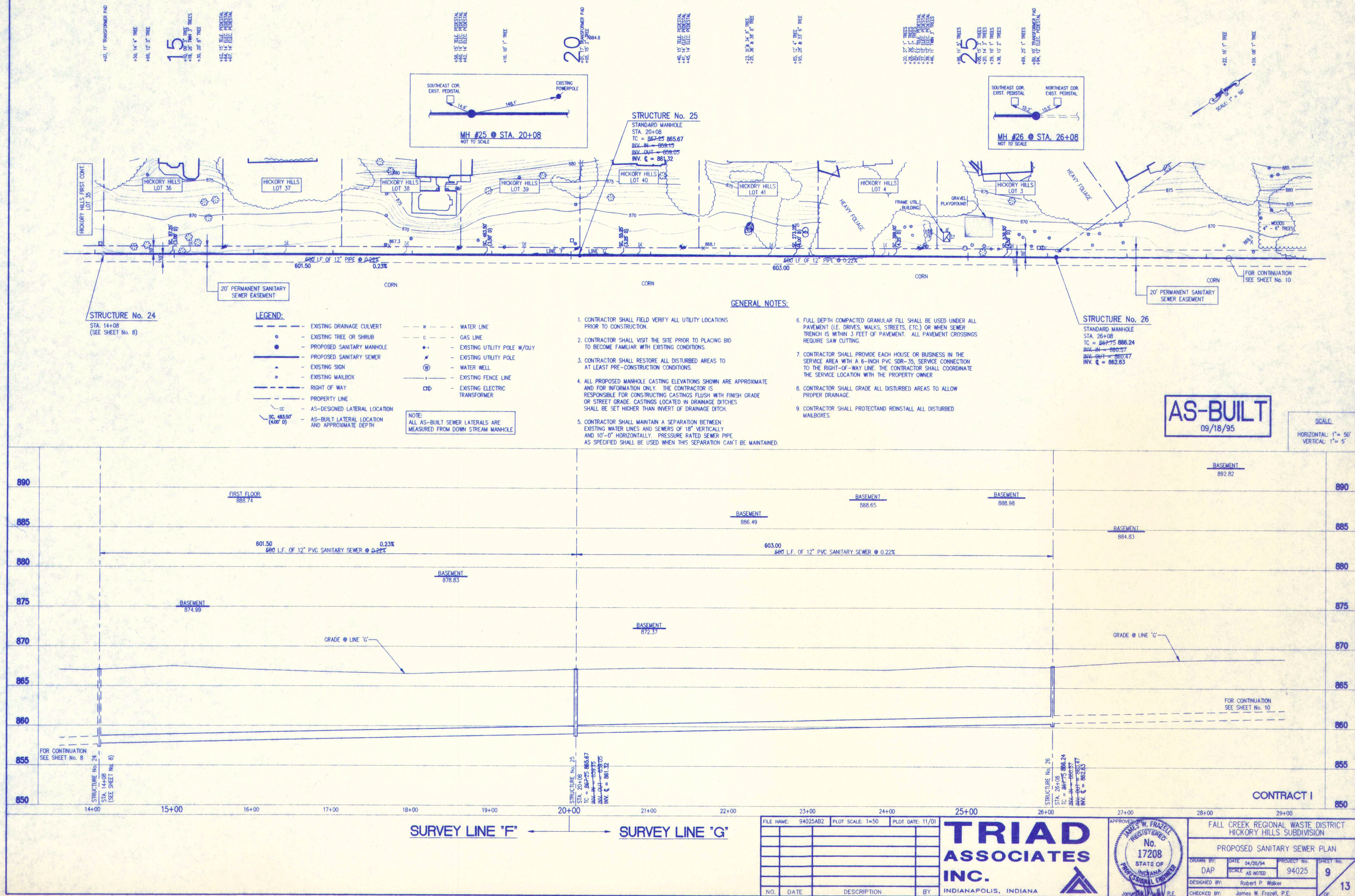
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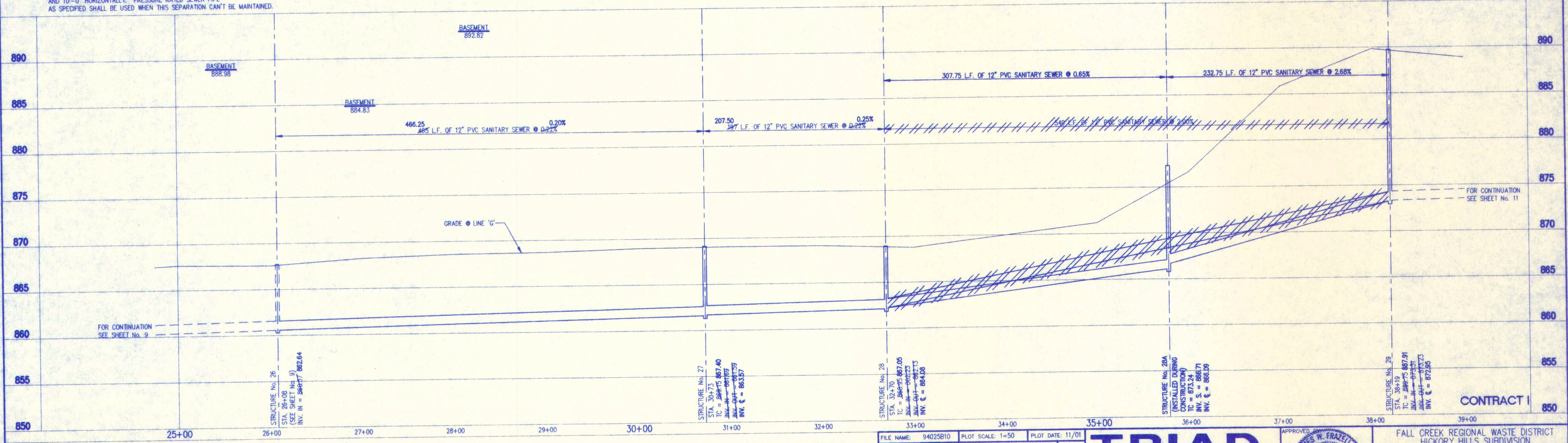
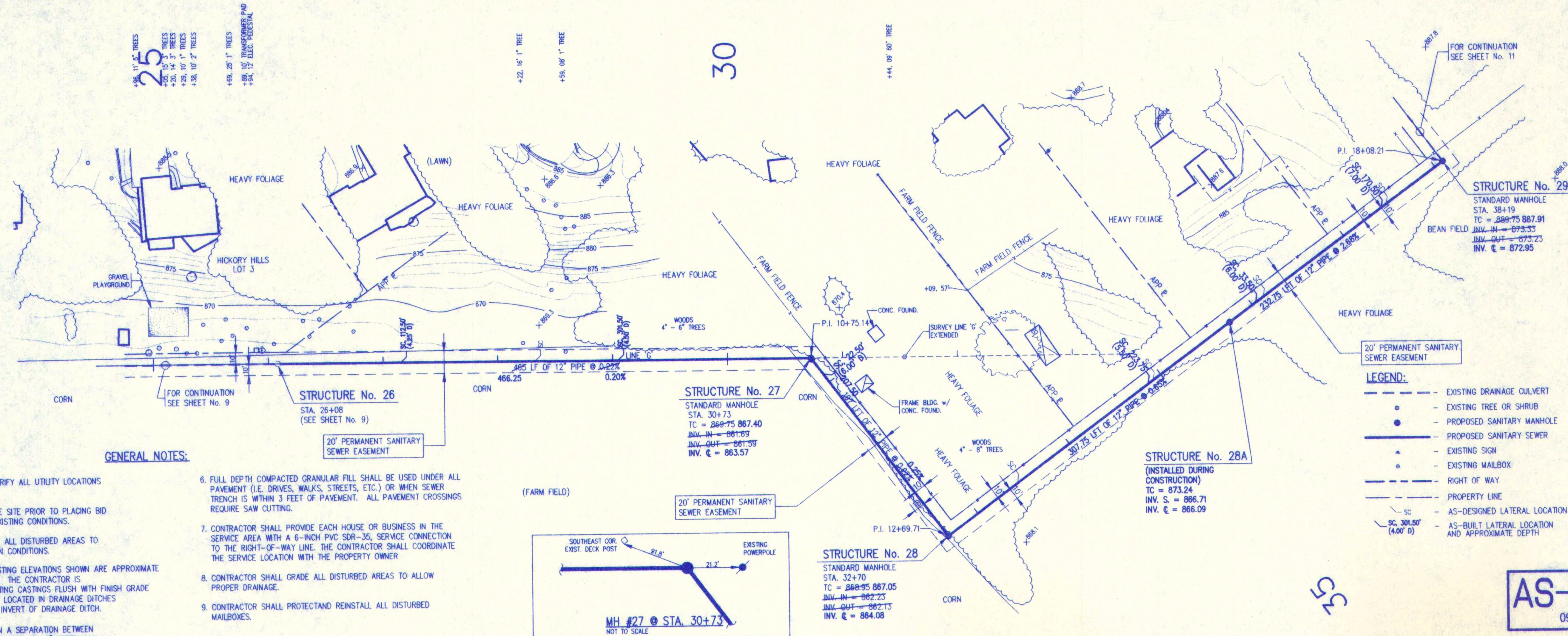
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NO.	DATE	DESCRIPTION	BY		

TRIAD ASSOCIATES INC.
INDIANAPOLIS, INDIANA

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: DAP
DATE: 09/18/95
SCALE: AS NOTED
PROJECT NO.: 94025
SHEET NO.: 8
DESIGNED BY: Robert P. Walker
CHECKED BY: James W. Frazell, P.E.

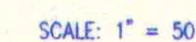




40

- LEGEND:

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

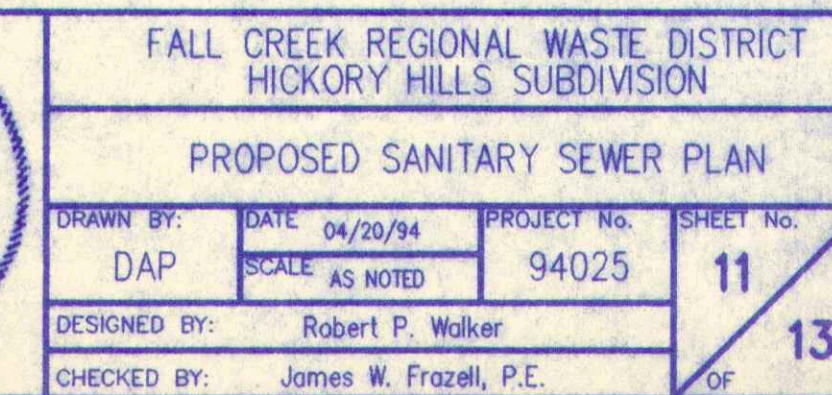


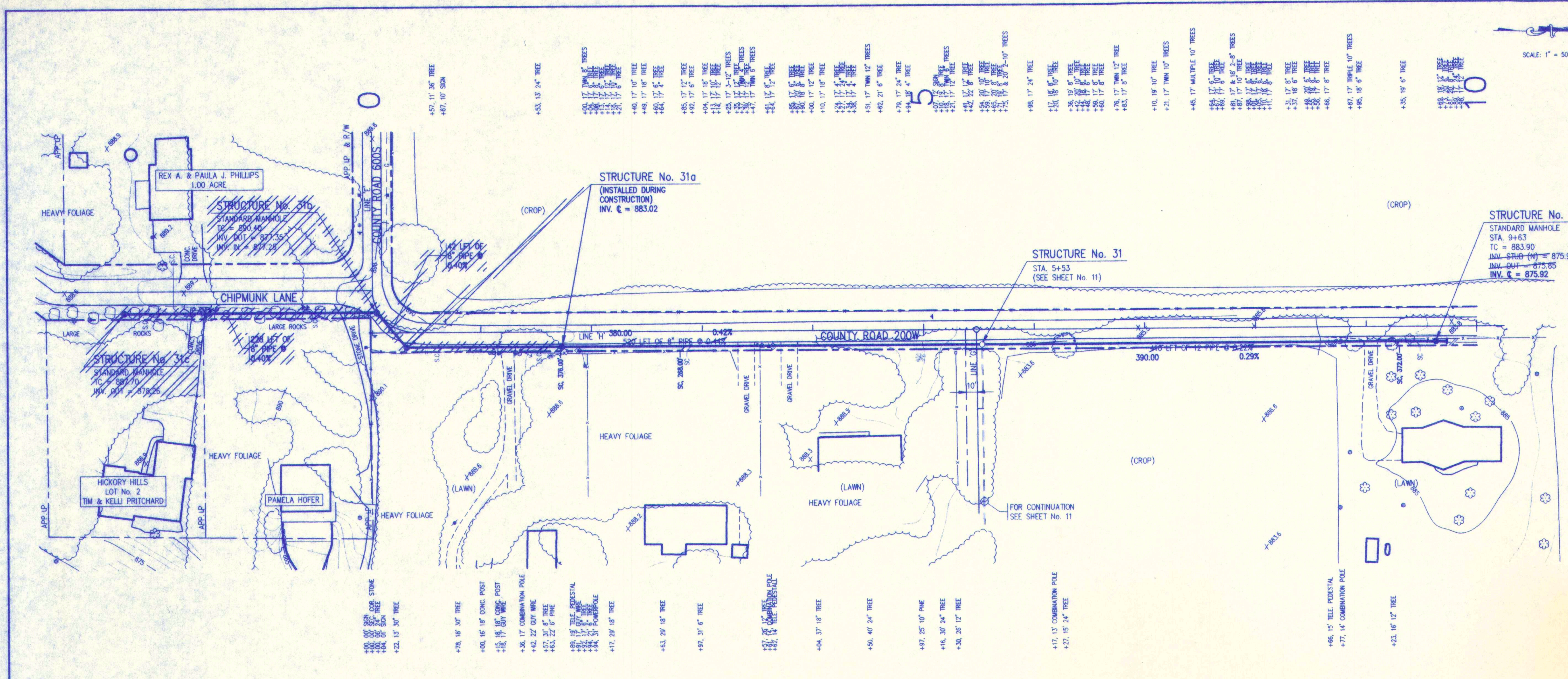
SCALE:
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



FILE NAME:	94025B11	PLOT SCALE:	1=50	PLOT DATE:	11/02
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TRIAD
ASSOCIATES
INC.
INDIANAPOLIS, INDIANA

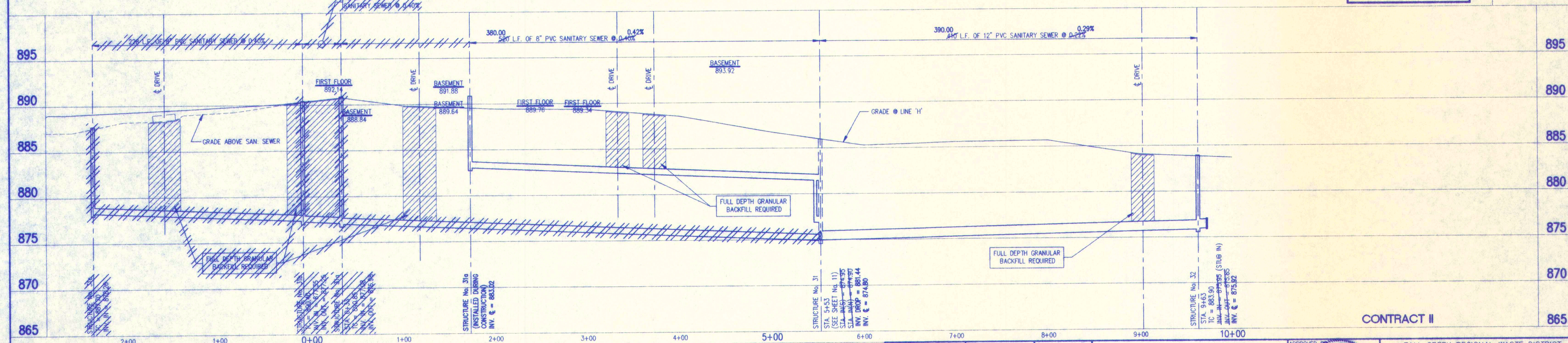




- LEGEND:**
- EXISTING DRAINAGE CULVERT
 - EXISTING TREE OR SHRUB
 - PROPOSED SANITARY MANHOLE
 - PROPOSED SANITARY SEWER
 - EXISTING SIGN
 - EXISTING MAILBOX
 - RIGHT OF WAY
 - PROPERTY LINE
 - WATER LINE
 - GAS LINE
 - EXISTING UTILITY POLE W/GUY
 - EXISTING UTILITY POLE
 - WATER WELL
 - EXISTING FENCE LINE
 - EXISTING ELECTRIC TRANSFORMER
 - AS-DESIGNED LATERAL LOCATION
 - 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
- GENERAL NOTES:**
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AS-BUILT
09/18/95

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



SURVEY LINE "H"

FILE NAME:	94025B12	PLOT SCALE:	1"=50'	PLOT DATE:	11/02
NO.	DATE	DESCRIPTION	BY		

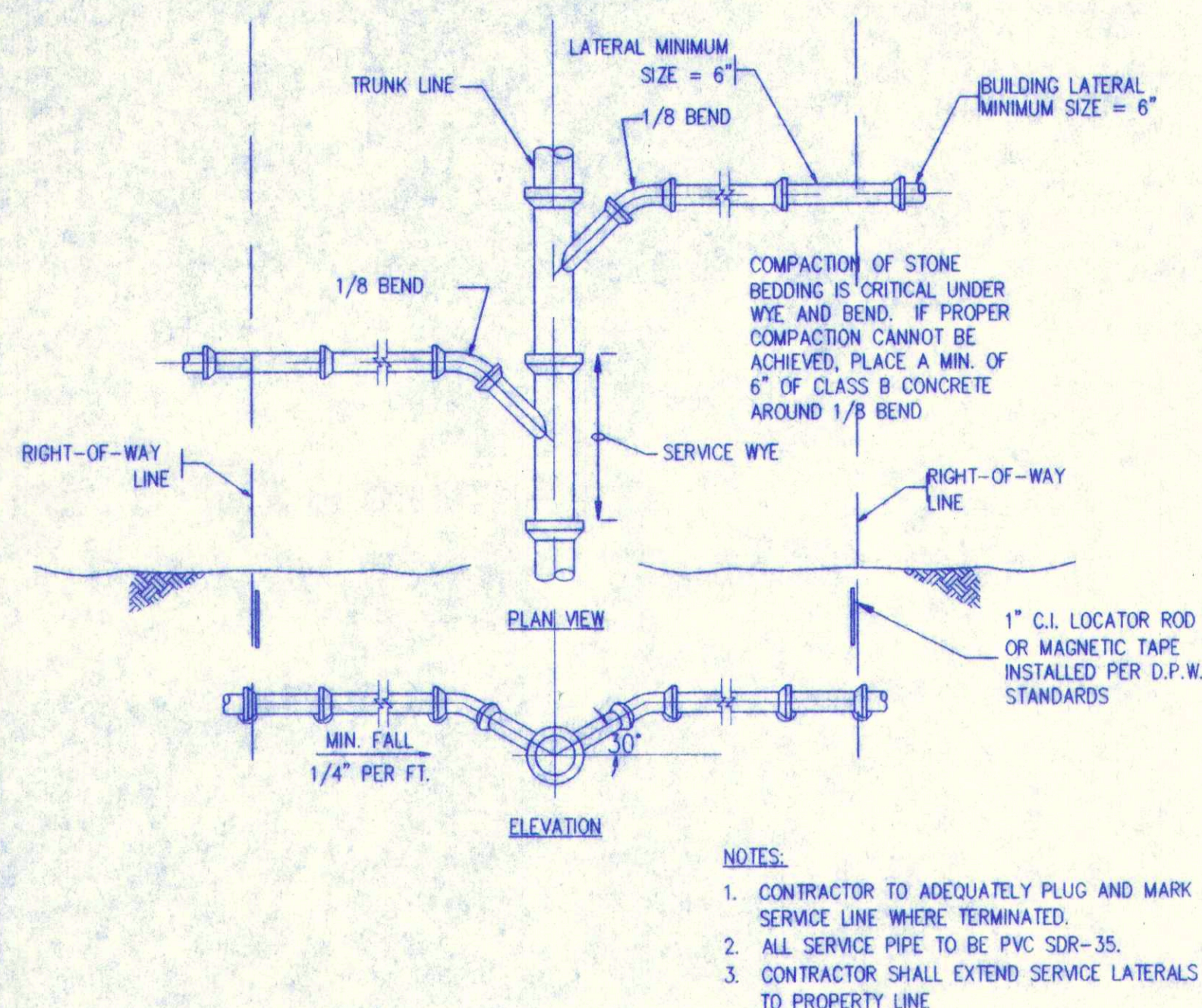
TRIAD ASSOCIATES INC.
INDIANAPOLIS, INDIANA

APPROVED
JAMES W. FROZELL
REGISTERED
No. 17208
STATE OF INDIANA
PROFESSIONAL ENGINEER

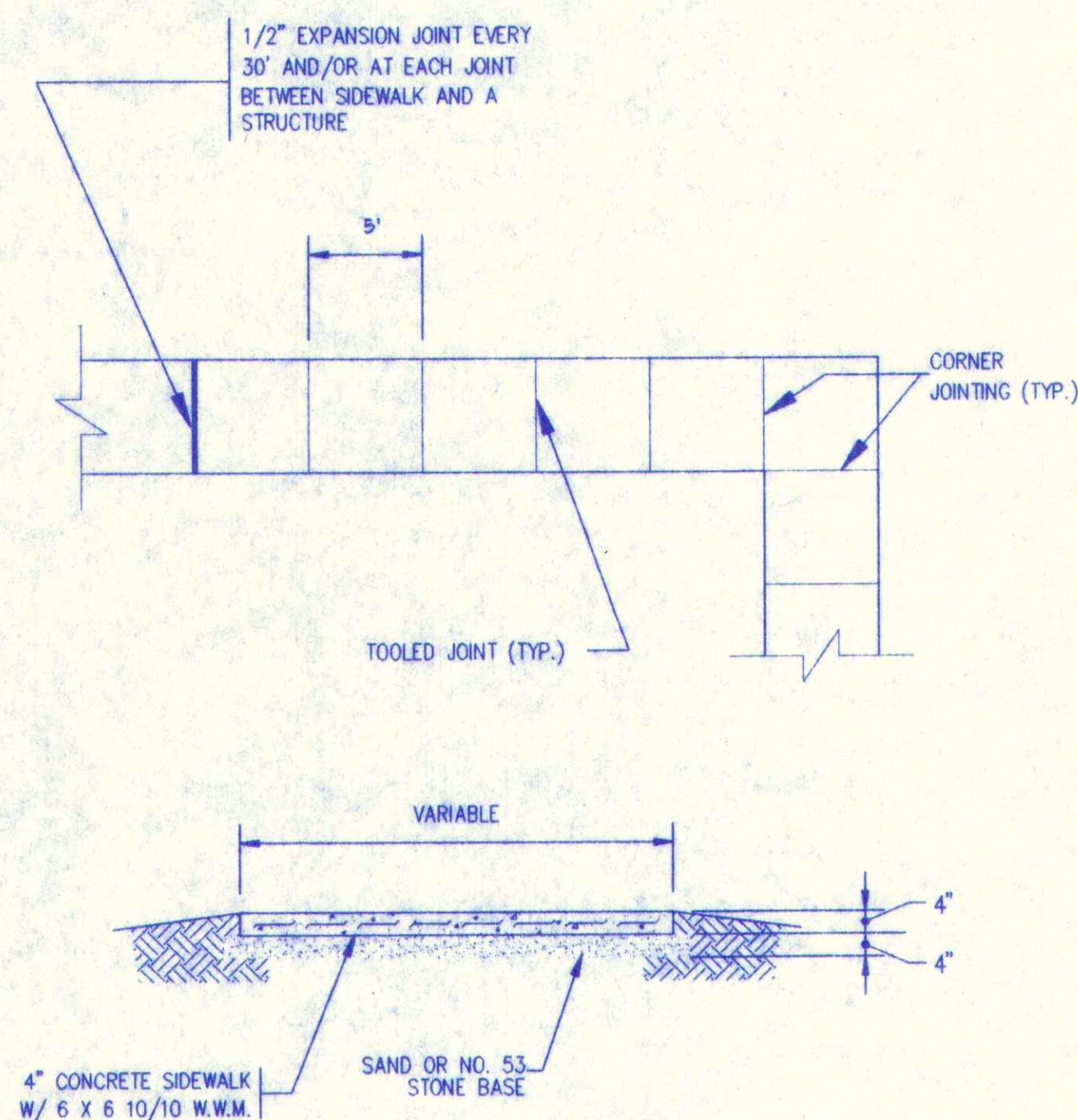
FALL CREEK REGIONAL WASTE DISTRICT
HICKORY HILLS SUBDIVISION

PROPOSED SANITARY SEWER PLAN

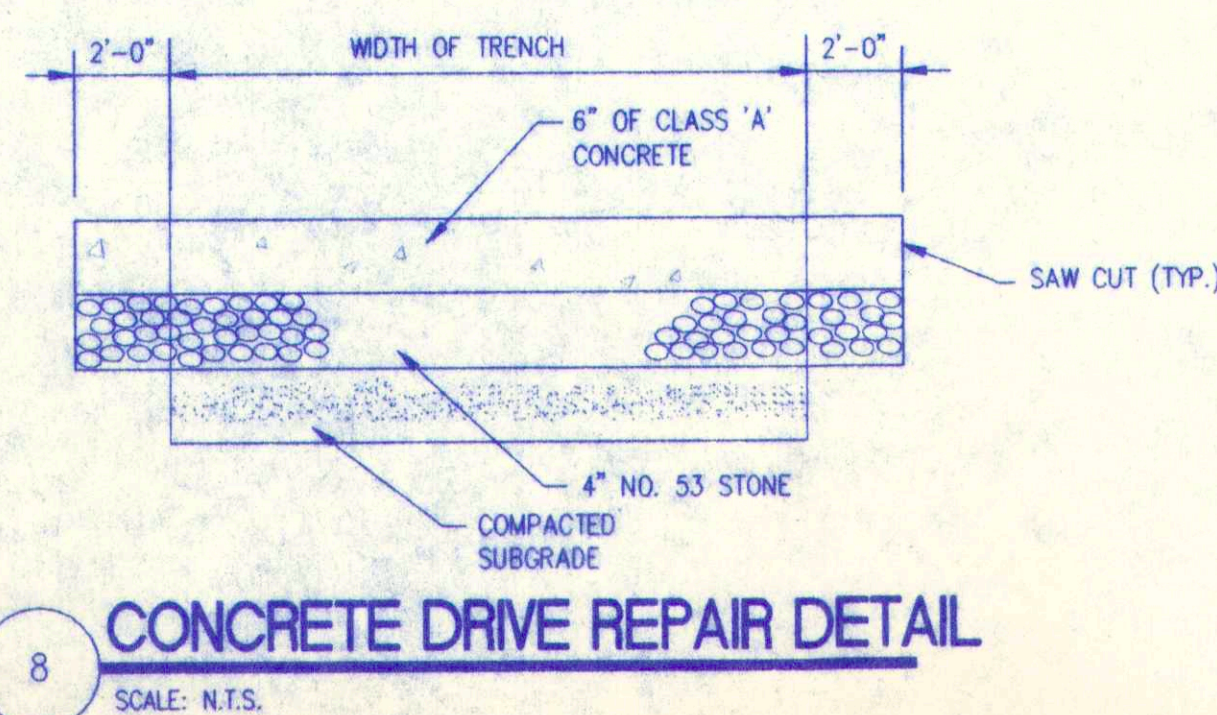
DRAWN BY:	DATE	PROJECT NO.	SHEET NO.
DAP	04/20/94	94025	12
DESIGNED BY:	Robert P. Walker		
CHECKED BY:	James W. Frozell, P.E.		13



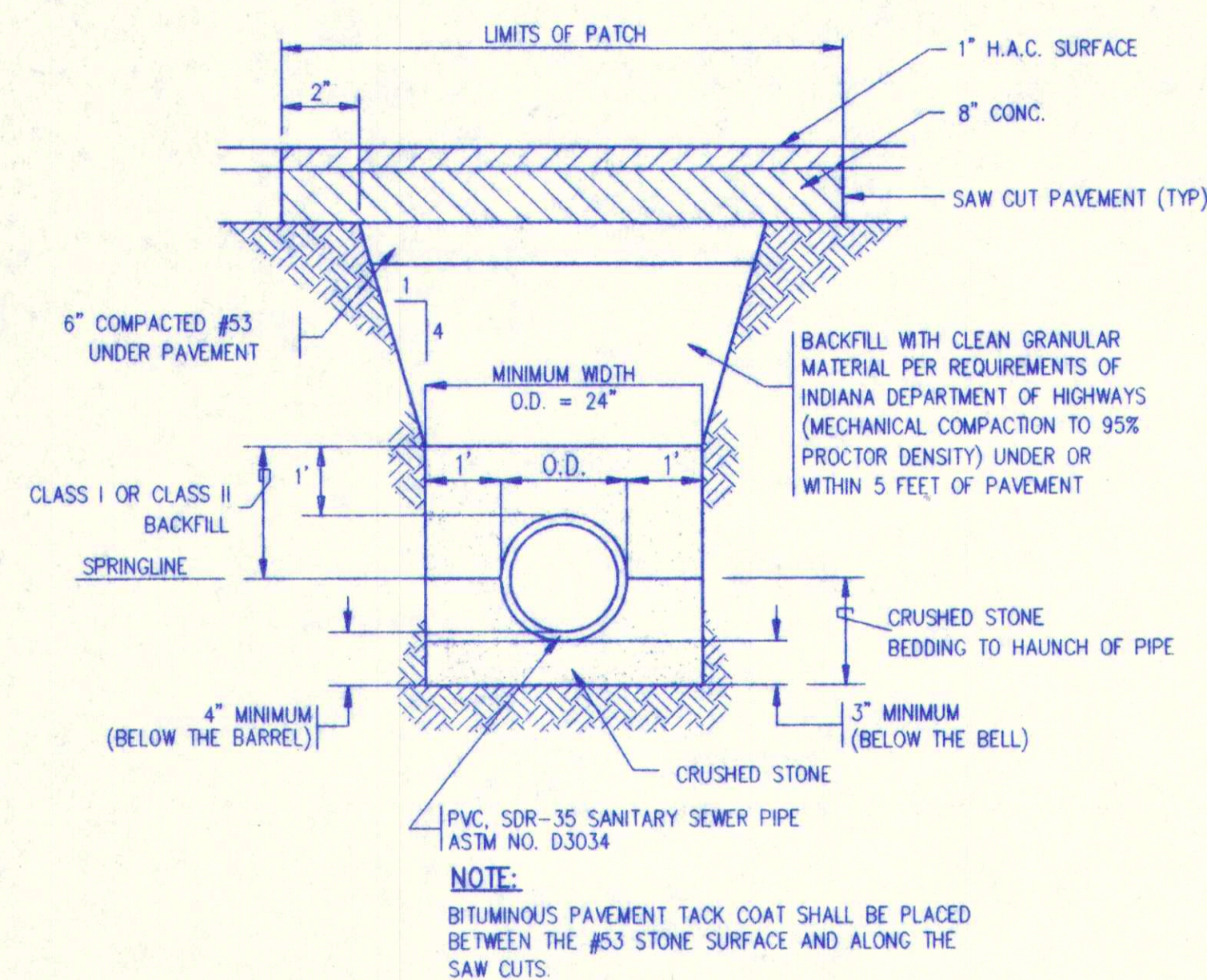
1 **SERVICE CONNECTION DETAIL**
SCALE: N.T.S.



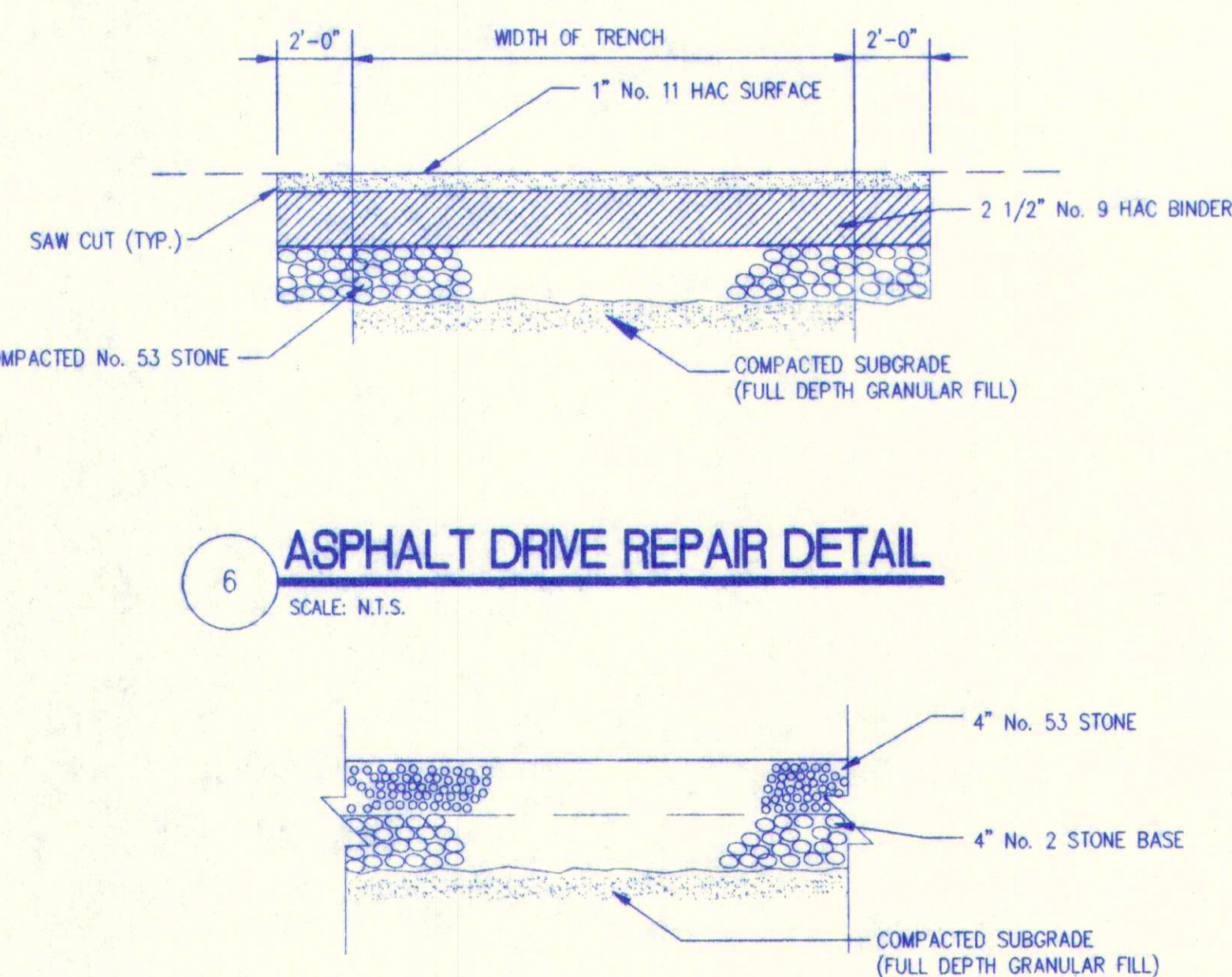
5 **TYPICAL SIDEWALK DETAIL**
SCALE: N.T.S.



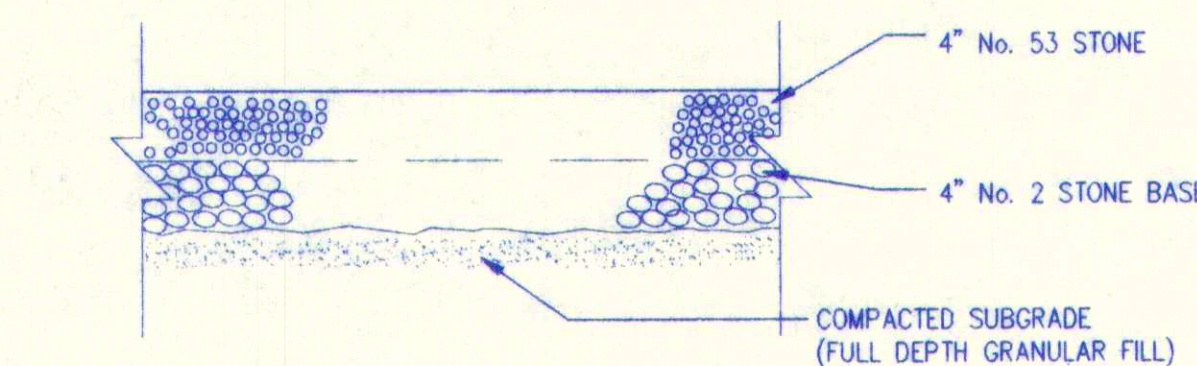
8 **CONCRETE DRIVE REPAIR DETAIL**
SCALE: N.T.S.



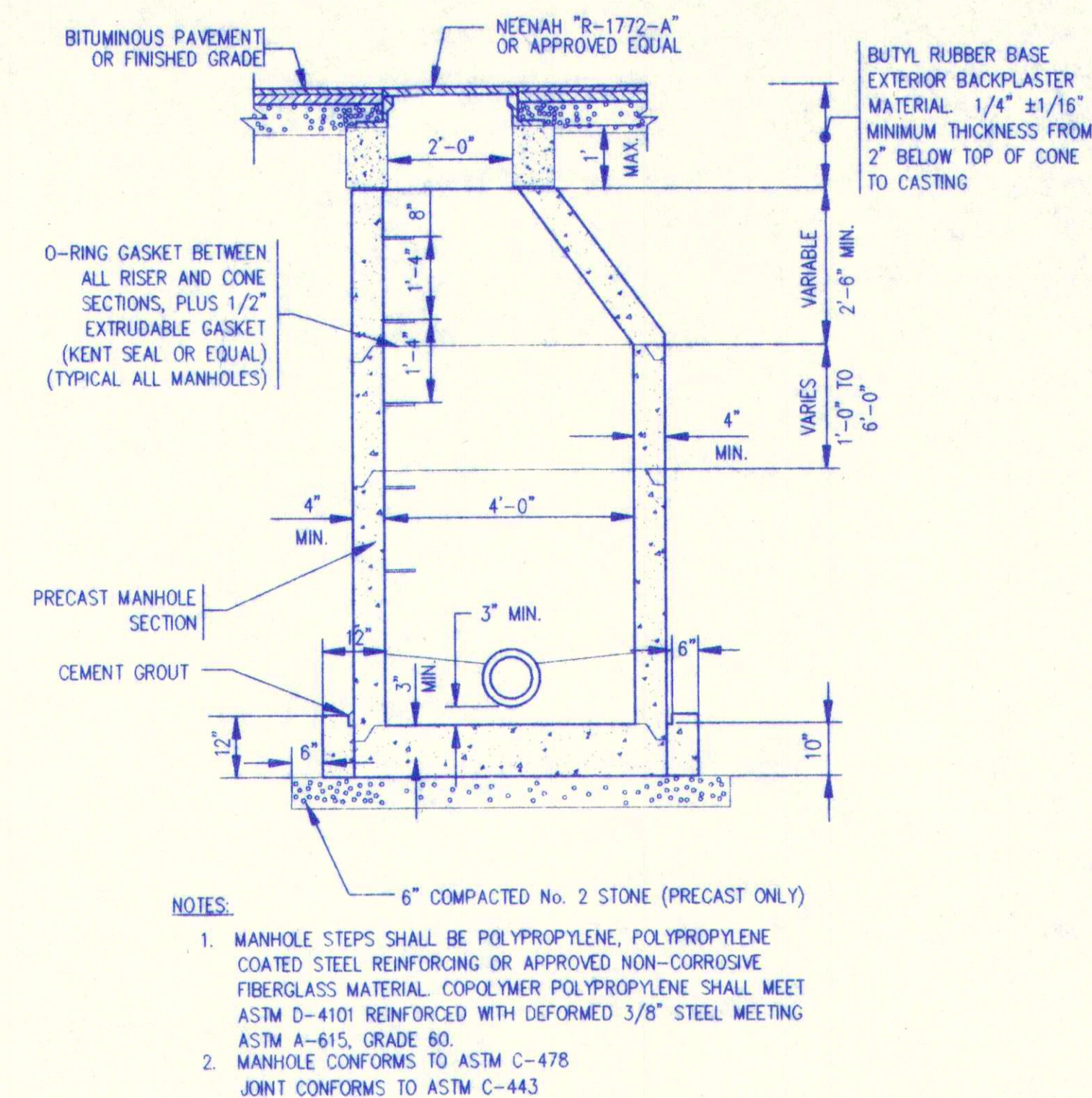
2 **TYPICAL TRENCH AND PAVEMENT PATCH DETAIL**
SCALE: N.T.S.



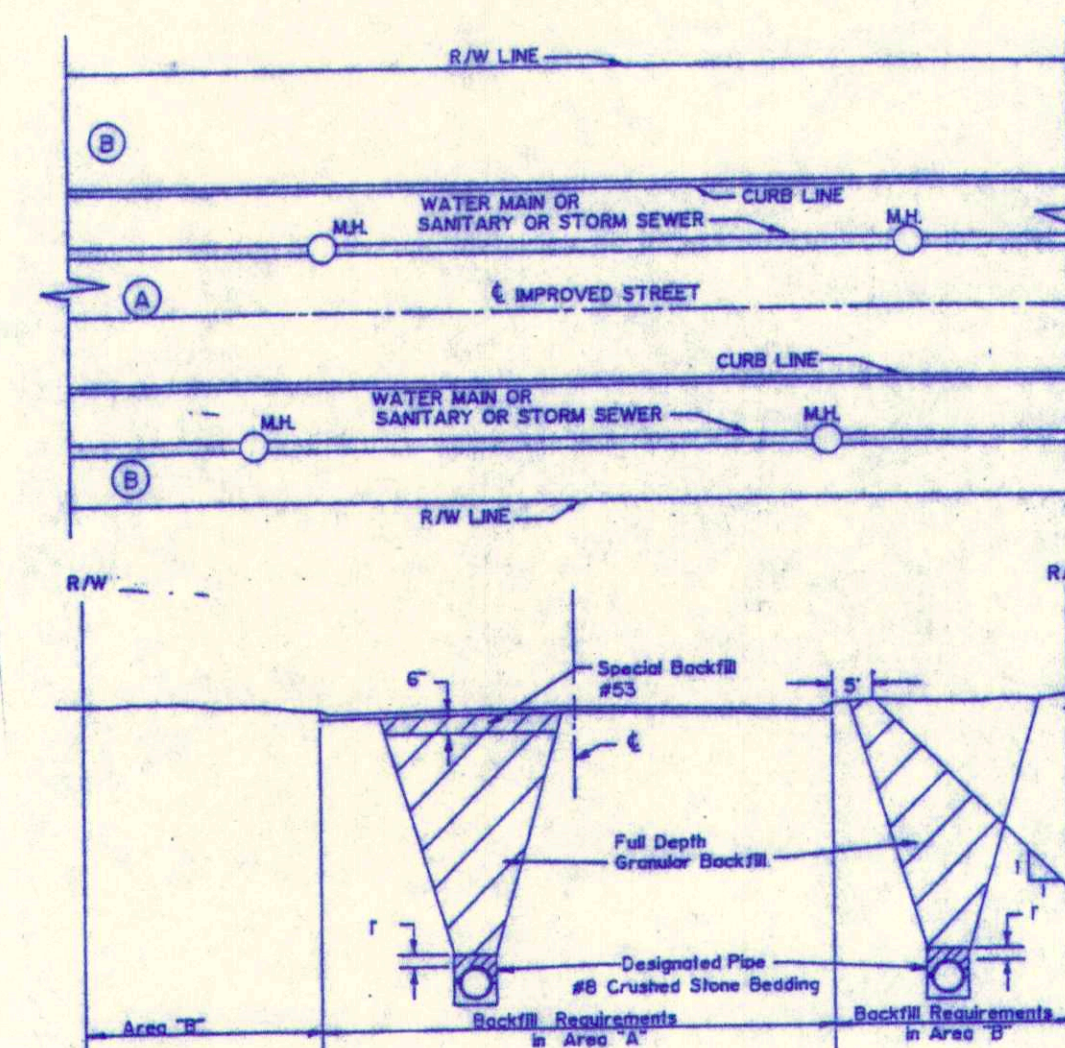
6 **ASPHALT DRIVE REPAIR DETAIL**
SCALE: N.T.S.



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

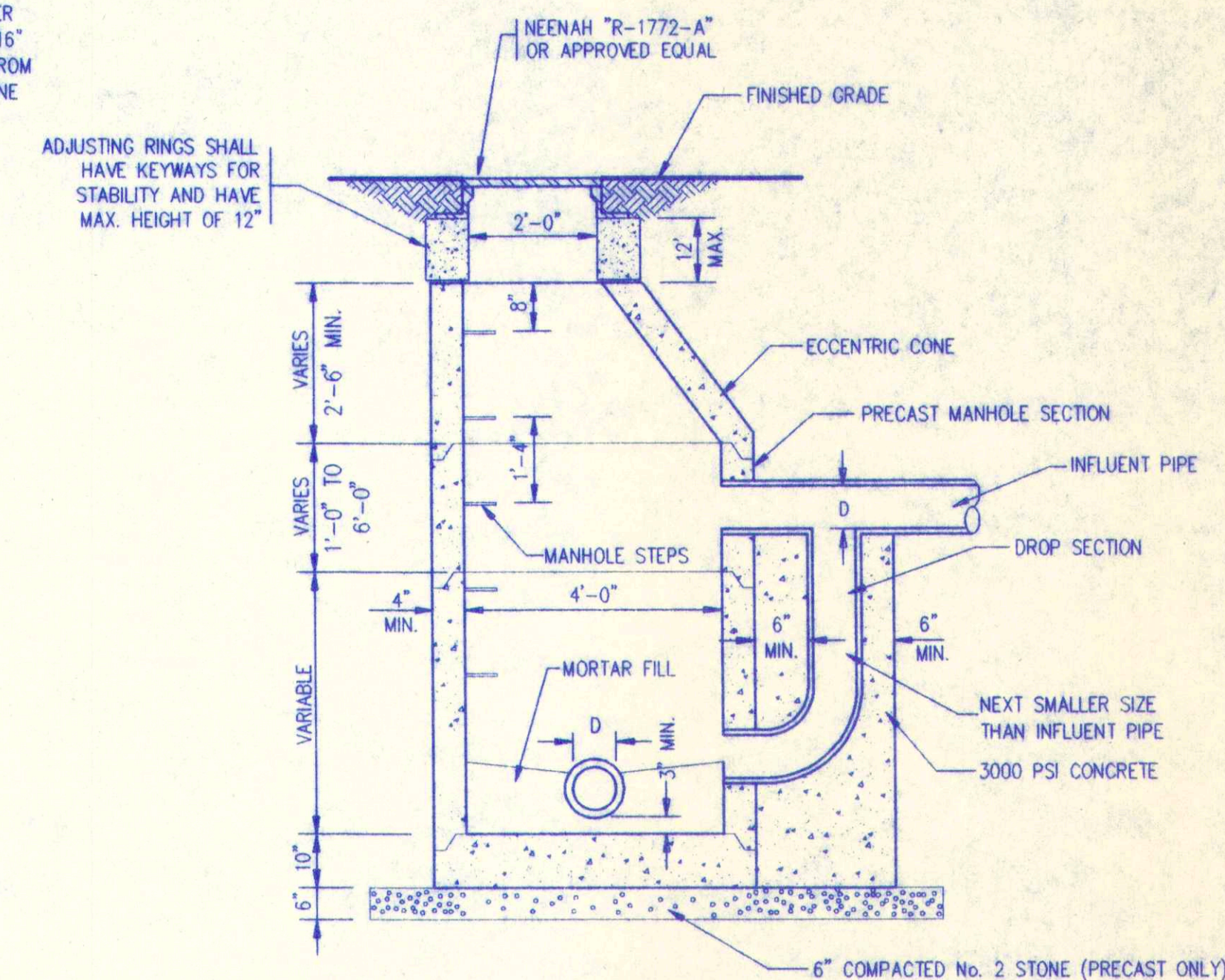


4 **SANITARY MANHOLE**
SCALE: N.T.S.

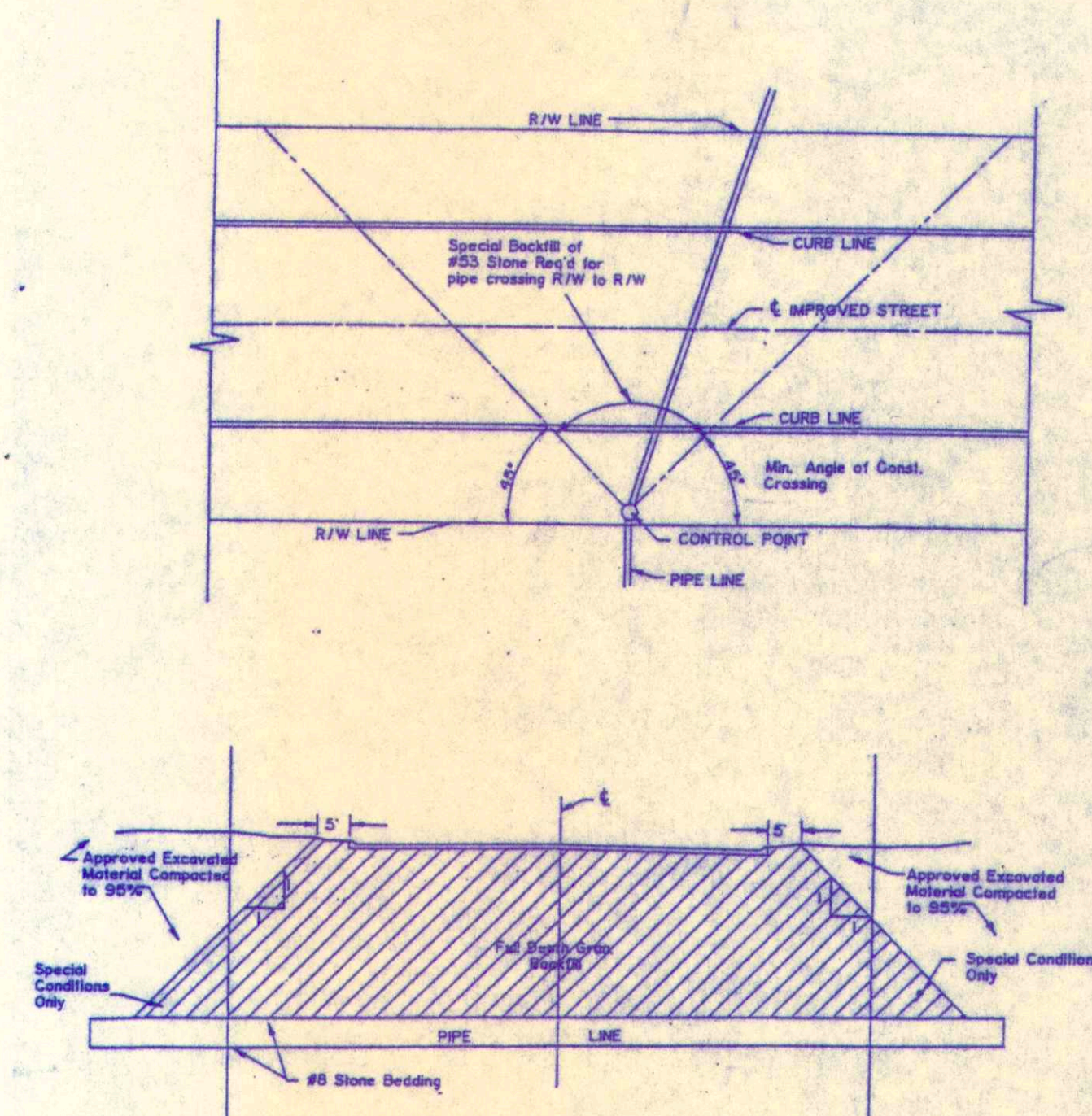


BACKFILL REQUIREMENTS
(FOR PIPELINES WITHIN RIGHT-OF-WAY FOR IMPROVED STREETS)

AS-BUILT
09/18/95



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



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

FILE NAME:	ABDETAIL	PLOT SCALE:	1=1	PLOT DATE:	11/03
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
DRAWN BY:	DATE: 04/20/94	PROJECT No. 94025
DESIGNED BY:	SCALE: AS NOTED	SHEET No. 13
CHECKED BY:	Robert P. Walker	OF 13
	James W. Frazell, P.E.	