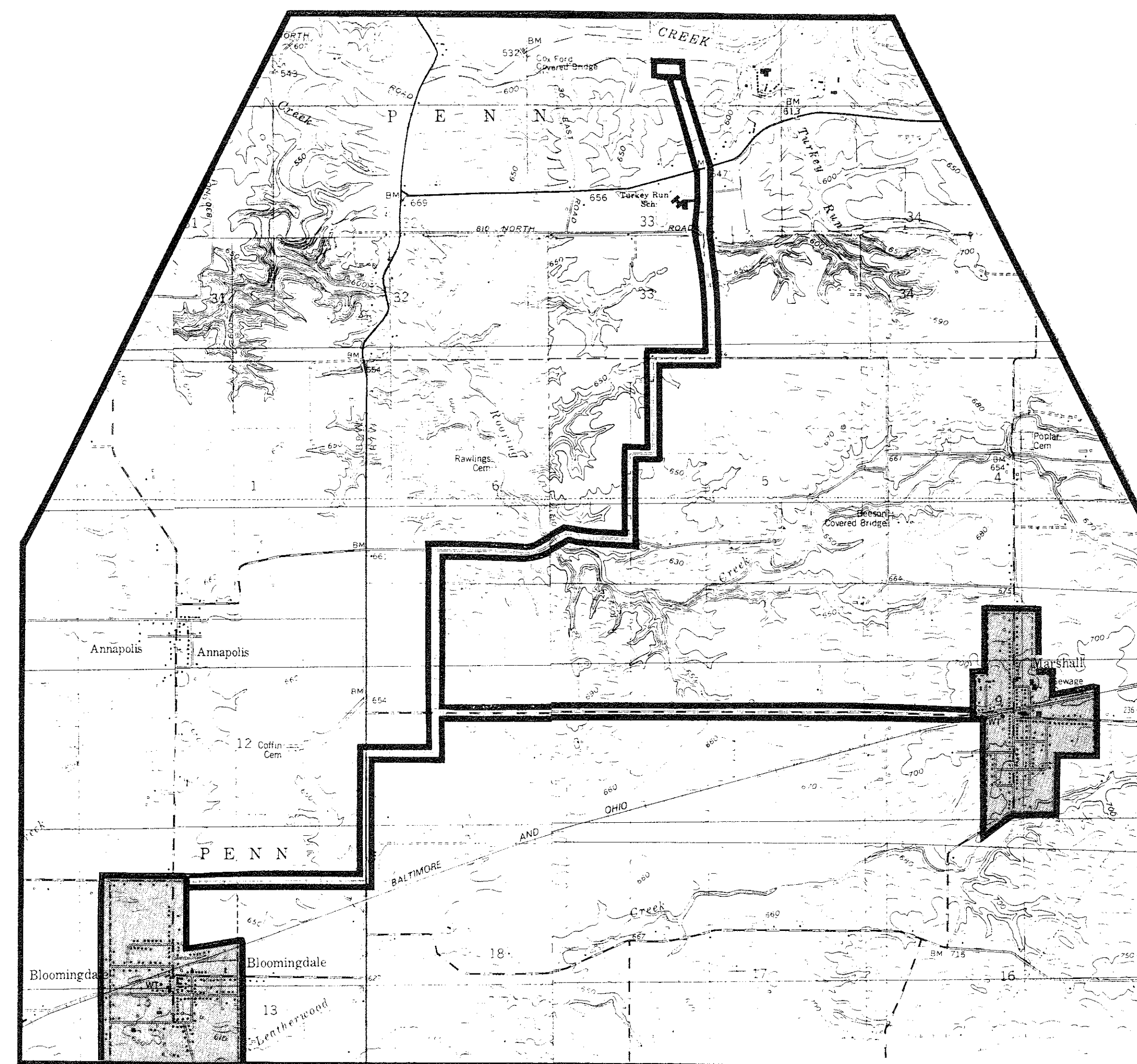
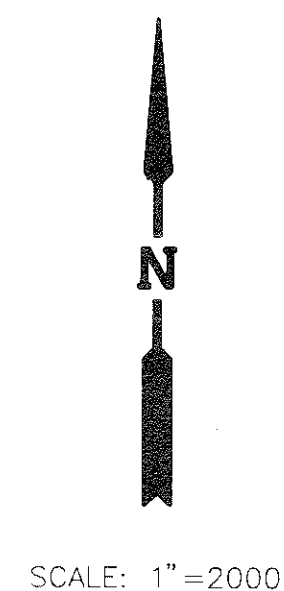


WASTEWATER FACILITIES PROJECT

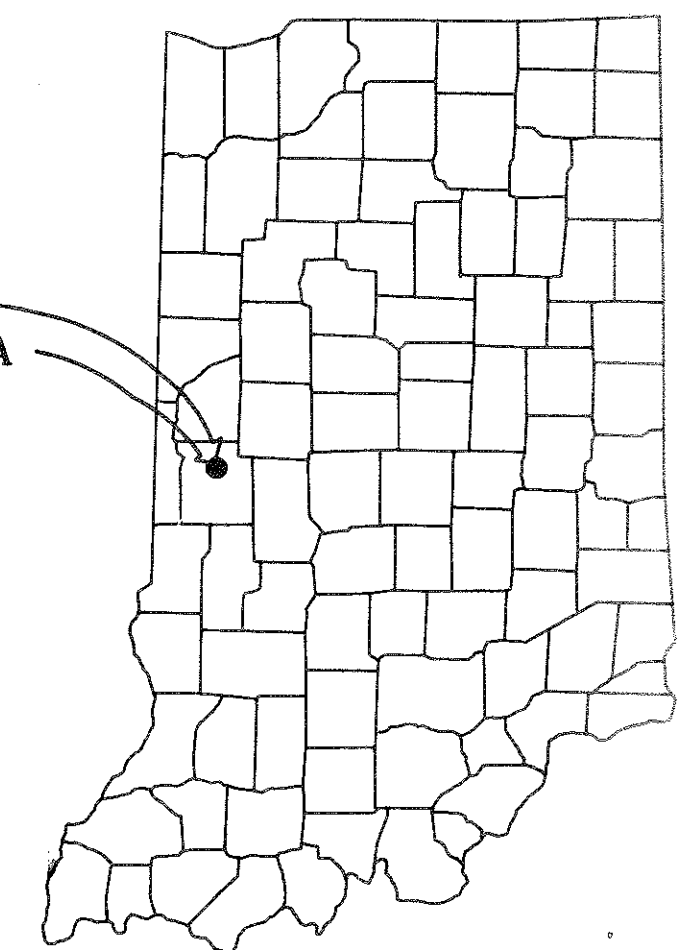
TURKEY RUN REGIONAL WASTE DISTRICT

DIVISION "A & B" — COLLECTION SYSTEM

NOVEMBER, 1991

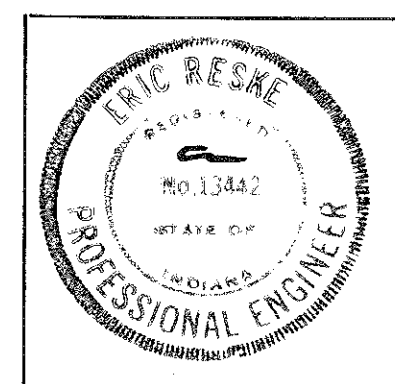
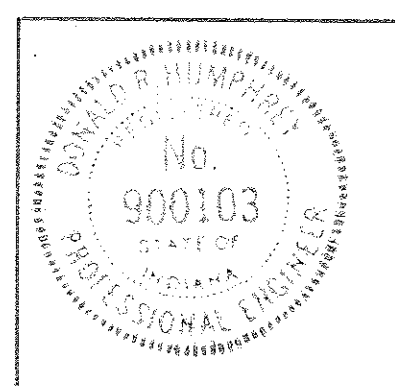


PROJECT LOCATION
PARKE COUNTY, INDIANA



PROJECT MAP

BEAM, LONGEST & NEFF, INC.
CONSULTING ENGINEERS
INDIANAPOLIS, INDIANA



Donald R. Humphrey
CERTIFIED

November 20, 1991
DATE

Eric Resae
CERTIFIED

DISTRICT BOARD OF TRUSTEES

Kevin Stewart
PRESIDENT — KEVIN STEWART

MEMBER — CHARLES BRANSON

Wayne Fisher
MEMBER — WAYNE FISHER

Roger Jones
MEMBER — ROGER JONES

MEMBER — GARY COLE

MEMBER — HAROLD DAVIES

Randy Reed
MEMBER — RANDY REED

GENERAL NOTES

- Not all Gas, Power, or Telephone Lines, whether above or below ground, have been shown on the drawings. The locations of existing underground utilities, such as sewer, field tile, etc. as shown on the drawings have been determined from the best available information and are given for the convenience of the Contractor. The Contractor must assume responsibility for protecting all utilities, in his work area whether shown or not, and must realize that the actual location of the utilities shown on the drawings may be different from the location indicated.
- All existing utilities encountered in the work shall be the Contractor's responsibility to maintain in service. Any utilities which can be removed during construction without undue interruption to service may be removed and replaced by the Contractor with the permission of the owner of the utility.
- Before working with or around utilities, the applicable utility company shall be contacted by the Contractor.
- All excess excavated material shall be disposed of by the Contractor unless specifically noted otherwise; on the drawings or in the specifications.
- Contractor shall be responsible for dust control due to installation of any of the proposed work in the residential or built-up areas, all at no additional cost to the owner.
- Where property markers, section corners, survey marks, and city bench marks, such as stones, pipes, or other such monuments are encountered the Engineer shall be notified before they are moved. The markers shall be protected and preserved until the owner, an authorized surveyor or agent, has witnessed or referenced their location.
- Where pipe lines are repaired or replaced, the repair material shall be similar to the existing pipe.
- Contractor is required to install manholes, cleanouts and valve boxes as shown. Permission from the Engineer or his representative is required for any addition or modification. At completion of work, the Contractor must certify manhole elevations for any additions or modifications.
- The Contractor shall make all measurements and check all dimensions necessary for the proper installation of the work called for by the drawings and specifications, and during the prosecution of the work, he shall make all necessary measurements to prevent misfitting in said work, and he shall be responsible therefore, for the accurate construction of the entire work.
- Work done without lines and grades being given, work done beyond the lines and grades shown on the plans or as otherwise given, extra work done without authority or any other work which fails to comply with the Contract Documents will be considered unauthorized and at the expense of the Contractor, and will not be paid for by the Owner.
- Location of new septic tanks and service lateral on private property is approximate only and is shown thus to establish quantities of material for the project. Final location is to be established in the field between the property owner and the contractor, with the approval of the Engineer's inspector.

UTILITIES

UTILITY	ADDRESS	CONTACT PERSON
POWER	PARKE COUNTY REMC 119 W. HIGH STREET ROCKVILLE, IN. 47872	KEITH FISHER 317-569-3133
TELEPHONE	TOWN OF MARSHALL INDIANA BELL 308 E. MAIN STREET CRAWFORDSVILLE, IN. 47933	L.E. MCKINNEY 317-364-5012 1-800-382-5544
	TOWN OF BLOOMINGDALE BLOOMINGDALE HOME TELE CO. BOX 206 BLOOMINGDALE, IN. 47832	RON COOK (317) 498-1000
GAS	INDIANA GAS CORP. 302 N. WASHINGTON STREET CRAWFORDSVILLE, IN. 47933	H.L. SHUTE 317-364-5460 1-800-666-2432
WATER	TOWN OF MARSHALL	LARRY HOOVER (317) 597-2077
	TOWN OF BLOOMINGDALE	WILLIAM JEFFERS (317) 498-1227

INDEX

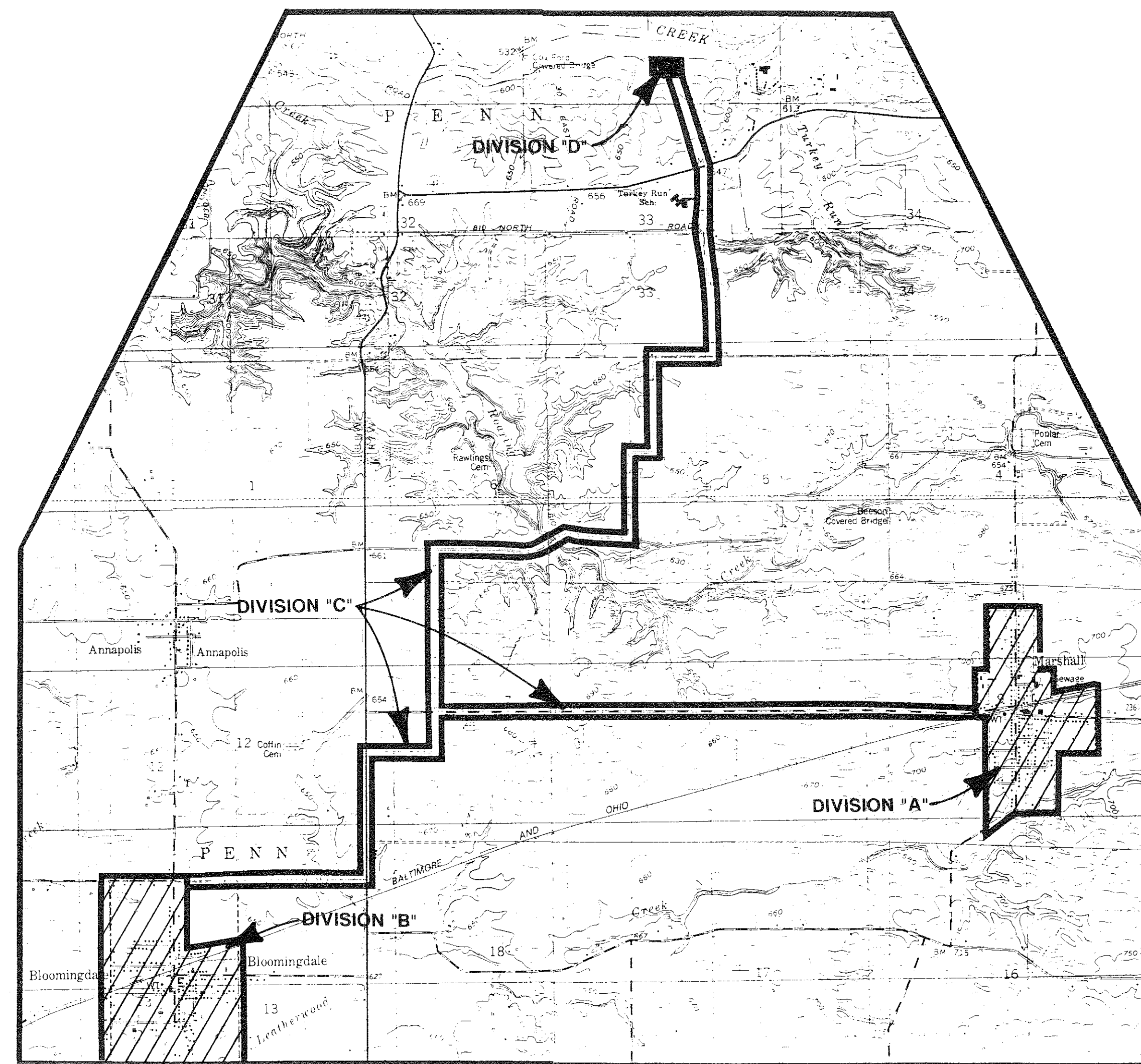
DIVISION "A & B" - TOWN OF MARSHALL & BLOOMINGDALE

- TITLE SHEET
- INDEX & GENERAL INFORMATION
- DIVISION "A" MARSHALL
SEWER AREA PLAN & SHEET LAYOUT
9. COLLECTION SEWER LAYOUT
14. SEWERAGE PROFILES No. 1 THRU 21
16. LIFT STATION SITE PLAN & DETAILS
17. LIFT STATION ELECTRICAL SITE PLAN
- DIVISION "B" BLOOMINGDALE
SEWER AREA PLAN & SHEET LAYOUT
30. COLLECTION SEWER LAYOUT
36. SEWERAGE PROFILES No. 1 THRU 26
38. LIFT STATION SITE PLAN & DETAILS
39. LIFT STATION ELECTRICAL SITE PLAN
- DIVISION "A" & "B"
LIFT STATION ELECTRICAL DETAILS
- STRUCTURE DATA - MARSHALL
- STRUCTURE DATA - BLOOMINGDALE
- SEPTIC TANK DETAILS
- 44-45. MISCELLANEOUS STRUCTURE DETAILS
- MISCELLANEOUS TRENCH DETAILS
- MISCELLANEOUS STREET REPAIR DETAILS

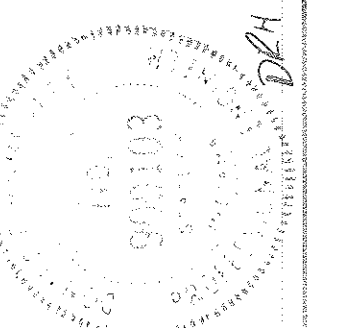
LEGEND

(ITEMS ARE EXISTING UNLESS NOTED OTHERWISE)

- STRUCTURES
- ROAD, ASPHALT SURFACED
- ROAD, CRUSHED AGGREGATE SURFACE
- APPARENT PROPERTY LINE
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- SPOT ELEVATION
- UGT UNDERGROUND TELEPHONE LINE
- UGT UNDERGROUND TELEPHONE CONDUIT
- 2" G GAS LINE
- TILE DRAIN LINE
- STORM SEWER
- 6" W WATER MAIN
- FENCE
- CULVERT PIPE
- POWER POLE
- MISCELLANEOUS POLE
- LIGHT POLE
- TREE
- PROPOSED MANHOLE
- PROPOSED AIR RELEASE VALVE
- PROPOSED VALVE PIT
- PROPOSED GRAVITY CLEANOUT
- PROPOSED PRESSURE CLEANOUT
- PROPOSED EFFLUENT PUMP LOCATION
- SOIL BORING
- SATELITE DISH
- EXISTING SEPTIC TANK
- PROPOSED SEPTIC TANK
- FIRE HYDRANT
- WATER VALVE OR GAS VALVE
- WELL
- CISTERN
- TELEPHONE BOX
- BENCH MARK LOCATION
- SIGN
- STORM INLET/BASIN
- PROPOSED LIFT STATION & VALVE PIT
- PROPOSED LATERAL CONNECTION
- PROPOSED PRESSURE LATERAL
- PROPOSED BORE AND JACK
- PROPOSED AUGERED BORE
- PROPOSED PRESSURE SEWER PIPE/FORCE MAIN
- PROPOSED GRAVITY SEWER PIPE W/ FLOW DIRECTION
- HOMES BUILT AFTER OCT. 18, 1972
(INELIGIBLE FOR EPA GRANT FUNDING)



PROJECT DIVISION BOUNDARIES

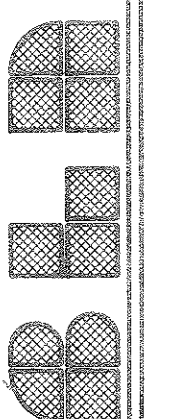


INDEX & GENERAL INFORMATION

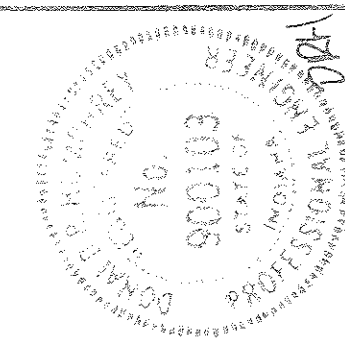
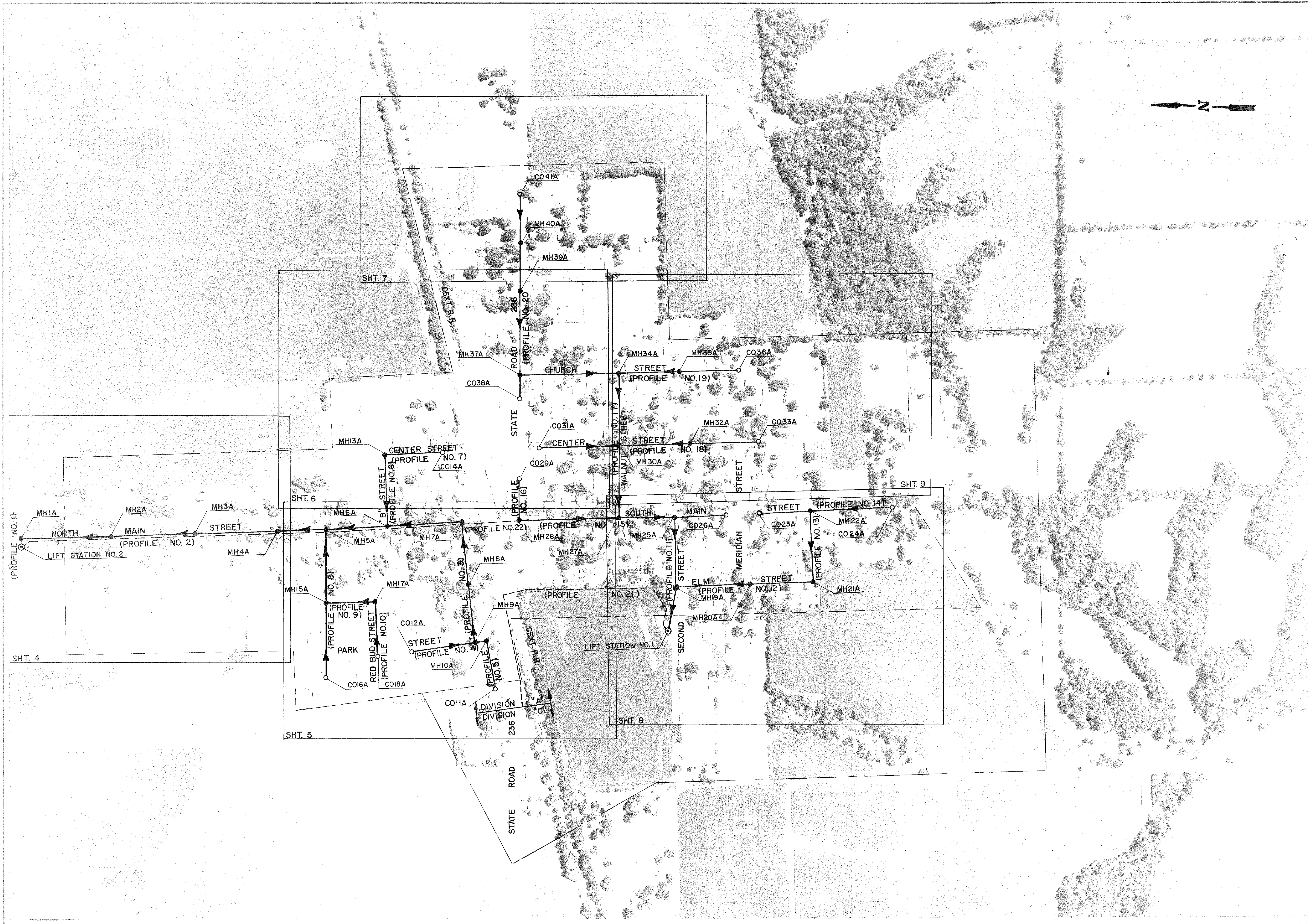
WASTEWATER FACILITIES PROJECT - DIVISION "A & B"
TURKEY RUN R.W.D., MARSHALL & BLOOMINGDALE, IN.

SCALE:	NONE
DRAWN BY:	SBS
DESIGNED BY:	DRH
CERTIFIED BY:	DRH
DATE:	NOV., 1991

BEAM, LONGEST & NEFF, INC.
CONSULTING ENGINEERS
8136 CASTLETON ROAD
INDIANAPOLIS, INDIANA 46250



REVISIONS	DESCRIPTION
DATE	

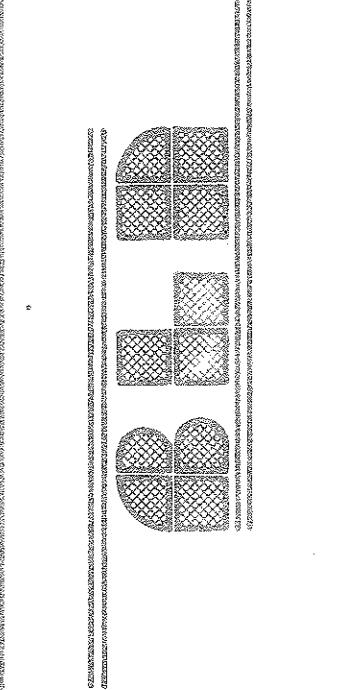


SEWER AREA PLAN & LAYOUT

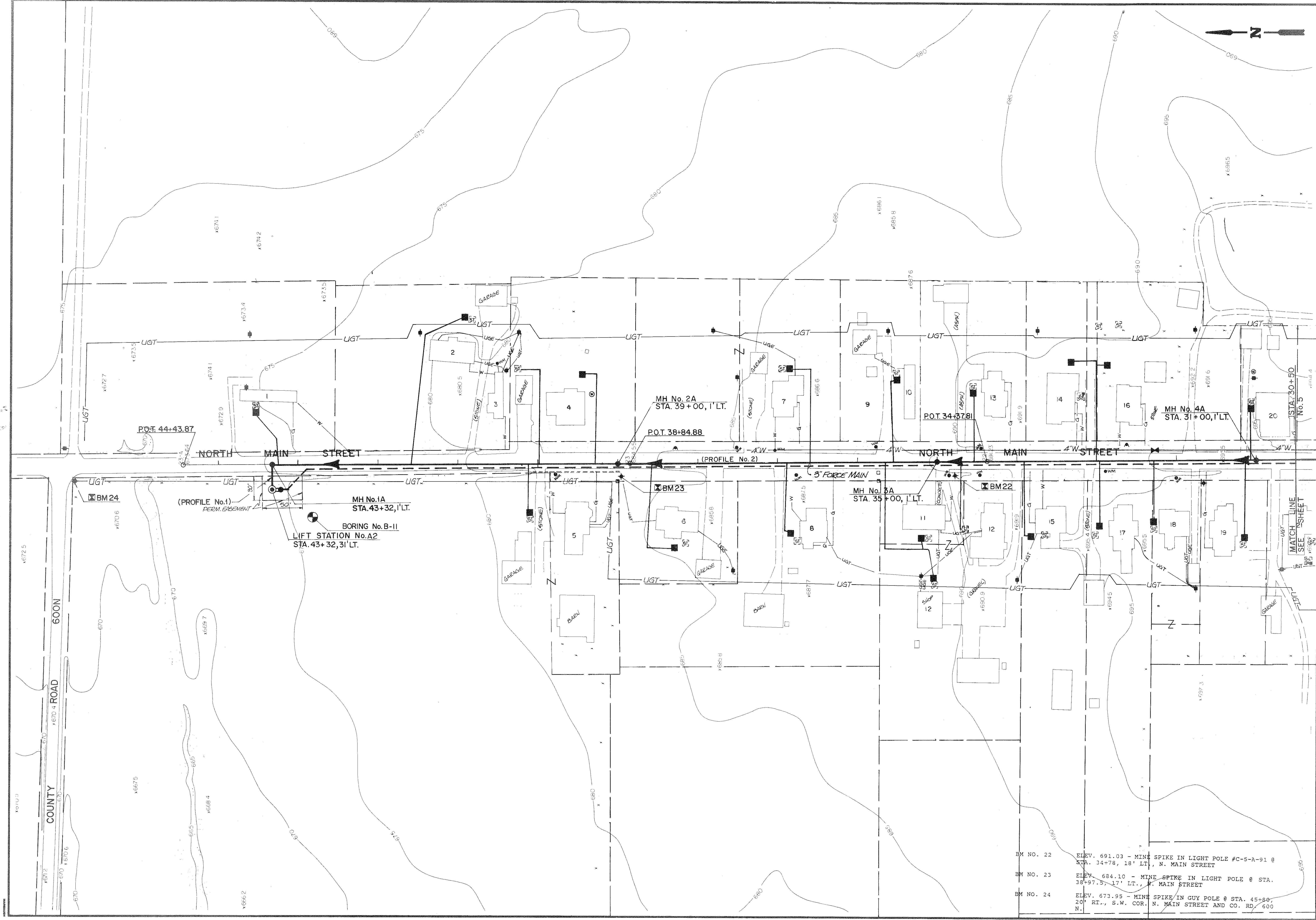
WASTEWATER FACILITIES PROJECT - DIVISION "A"
TURKEY RUN R.W.D., MARSHALL, INDIANA

SCALE: 1" = 200'	DRAWN BY: HSW	DESIGNED BY: DRH	CHECKED BY: DRH
DATE: NOV. 1991			

BEAM, LONGEST & NEFF, INC.
CONSULTING ENGINEERS
8126 CASTLETON ROAD
INDIANAPOLIS, INDIANA 46250



REVISIONS	DESCRIPTION



COLLECTION SEWER LAYOUT

WASTEWATER FACILITIES PROJECT - DIVISION "A"

TURKEY RUN R.W.D., MARSHALL, INDIANA

SCALE 1" = 50'

DESIGNED	HSW
CERTIFIED	DRH
DATE	NOV, 1991

BEAM, LONGEST & NEFF, INC.

CONSULTING ENGINEERS

8136 CASTLETON ROAD

INDIANAPOLIS, INDIANA 46250

REVISIONS

SHEET

4

OF

47

DIVISION "A"

BM NO. 22 ELEV. 691.03 - MINE SPIKE IN LIGHT POLE #C-5-A-91 @ STA. 34+78, 18' LT., N. MAIN STREET

BM NO. 23 ELEV. 684.10 - MINE SPIKE IN LIGHT POLE @ STA. 38+97.5, 17' LT., N. MAIN STREET

BM NO. 24 ELEV. 673.95 - MINE SPIKE IN GUY POLE @ STA. 45+80, 20' RT., S.W. COR. N. MAIN STREET AND CO. RD. 600 N.



COLLECTION SEWER LAYOUT

WASTEWATER FACILITIES PROJECT - DIVISION "A"
TURKEY RUN R.W.D., MARSHALL, INDIANA

SCALE: 1" = 50'

DATE: NOV, 1991

BEAM, LONGEST & NEFF, INC.

CONSULTING ENGINEERS
8136 CASTLETON ROAD
INDIANAPOLIS, INDIANA 46250

REVISIONS

SHEET

5

OF

47

DIVISION

A

- BM NO. 12 ELEV. 701.22 - MINE SPIKE IN LIGHT POLE @ STA. 17+58, 13' LT., WEST OF ALLEY ON S. MAIN STREET
- BM NO. 13 ELEV. 703.97 - MINE SPIKE IN LIGHT POLE @ STA. 19+66, 33' RT., N.E. COR. S. MAIN STREET AND S.R. 236
- BM NO. 20 ELEV. 703.37 - MINE SPIKE IN LIGHT POLE @ STA. 25+70, 25' LT., N.W. COR. "B" STREET AND N. MAIN STREET
- BM NO. 21 ELEV. 700.65 - MINE SPIKE IN LIGHT POLE #C-5-A-51 @ STA. 28+05.5, 18.5' RT., N. MAIN STREET
- BM NO. 25 ELEV. 704.25 - MINE SPIKE IN LIGHT POLE #C-5-20 @ STA. 128+87, 22.5' RT., S.W. COR. S.R. 236 AND PARK STREET
- BM NO. 26 ELEV. 709.56 - MINE SPIKE IN LIGHT POLE #C-5-P-02 @ STA. 0+18.5, 20' RT., S.E. COR. PARK STREET AND RED BUD
- BM NO. 27 ELEV. 704.42 - MINE SPIKE IN LIGHT POLE #20.4 @ STA. 0+20.5, 21.5' RT., S.E. COR. PARK STREET AND LINE NO. 2

BM NO. 14 ELEV. 702.69 - MINE SPIKE IN LIGHT POLE @ STA. 10+38.5, 16.5' RT., S.W. COR. CENTER STREET AND S.R. 236

BM NO. 15 ELEV. 704.04 - MINE SPIKE IN LIGHT POLE @ STA. 7+00, 17' LT., N. SIDE S.R. 236 @ COR. CHURCH STREET

BM NO. 19 ELEV. 699.82 - MINE SPIKE IN LIGHT POLE @ STA. 16+70, 17' LT., S.W. COR. CENTER AND "B" STREET



COLLECTION SEWER LAYOUT

WASTEWATER FACILITIES PROJECT - DIVISION "A"
TURKEY RUN R.W.D., MARSHALL, INDIANA

SCALE: 1" = 50'

DATE: NOV, 1991

DESIGNED: DRH

CERTIFIED: DRH

BEAM, LONGEST & NEFF, INC.

CONSULTING ENGINEERS

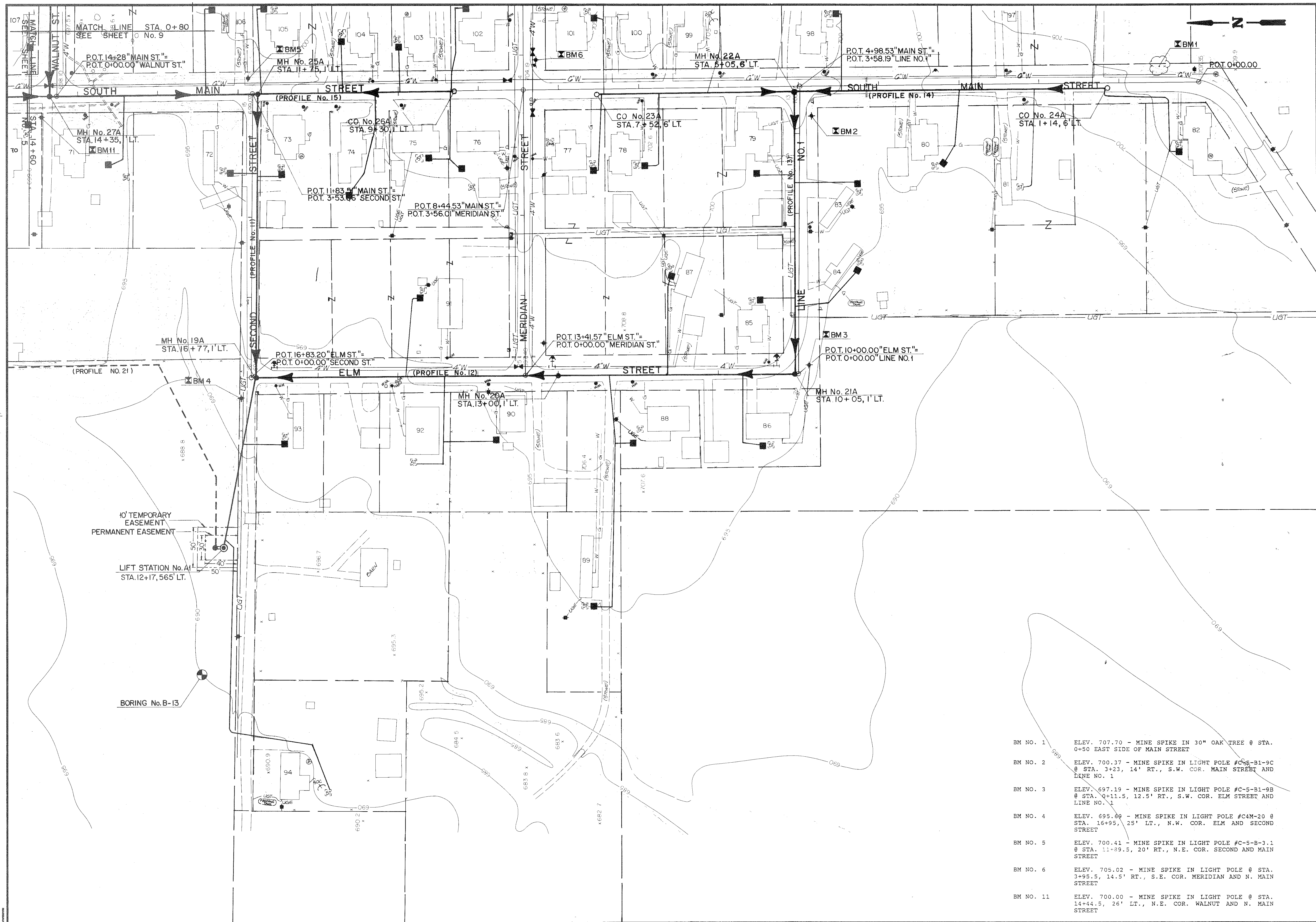
8136 CASTLETON ROAD

INDIANAPOLIS, INDIANA 46250

REVISIONS

SHEET 6 OF 47

DIVISION



COLLECTION SEWER LAYOUT

WASTEWATER FACILITIES PROJECT - DIVISION "A"
TURKEY RUN R.W.D., MARSHALL, INDIANA

SCALE 1"=50'

DRAWN HSW

DESIGNED BY

CERTIFIED

DATE NOV, 1991

BEAM, LONGEST & NEFF, INC.

CONSULTING ENGINEERS
8136 CASTLETON ROAD
INDIANAPOLIS, INDIANA 46220

8136 CASTLETON ROAD
INDIANAPOLIS INDIANA 46250

8136 CASTLETON ROAD
INDIANAPOLIS INDIANA 46250

8136 CASTLETON ROAD
INDIANAPOLIS INDIANA 46250

REVISIONS

SHEET

8

OF

47

DIVISION "A"

BM NO. 1 ELEV. 707.70 - MINE SPIKE IN 30" OAK TREE @ STA.
0+50 EAST SIDE OF MAIN STREET

BM NO. 2 ELEV. 700.37 - MINE SPIKE IN LIGHT POLE #C5-B1-9C
@ STA. 3+23, 14' RT., S.W. COR. MAIN STREET AND
LINE NO. 1

BM NO. 3 ELEV. 697.19 - MINE SPIKE IN LIGHT POLE #C5-B1-9B
@ STA. 0+11.5, 12.5' RT., S.W. COR. ELM STREET AND
LINE NO. 1

BM NO. 4 ELEV. 695.00 - MINE SPIKE IN LIGHT POLE #C4M-20 @
STA. 16+95, 25' LT., N.W. COR. ELM AND SECOND
STREET

BM NO. 5 ELEV. 700.41 - MINE SPIKE IN LIGHT POLE #C5-B-3.1
@ STA. 11+29.5, 20' RT., N.E. COR. SECOND AND MAIN
STREET

BM NO. 6 ELEV. 705.02 - MINE SPIKE IN LIGHT POLE @ STA.
3+95.5, 14.5' RT., S.E. COR. MERIDIAN AND N. MAIN
STREET

BM NO. 11 ELEV. 700.00 - MINE SPIKE IN LIGHT POLE @ STA.
14+44.5, 26' LT., N.E. COR. WALNUT AND N. MAIN
STREET



900103

PROFESSIONAL

DATE

NOV, 1991

DRH

CERTIFIED

DRH

DESIGNED

HSW

DRAWN

SCALE

1"=50'

COLLECTION SEWER LAYOUT

WASTEWATER FACILITIES PROJECT - DIVISION "A"

TURKEY RUN R.W.D., MARSHALL, INDIANA

BEAM, LONGEST & NEFF, INC.

CONSULTING ENGINEERS

8136 CASTLETON ROAD

INDIANAPOLIS, INDIANA 46250

REVISIONS

SHEET

9

OF

47

DIVISION "A"

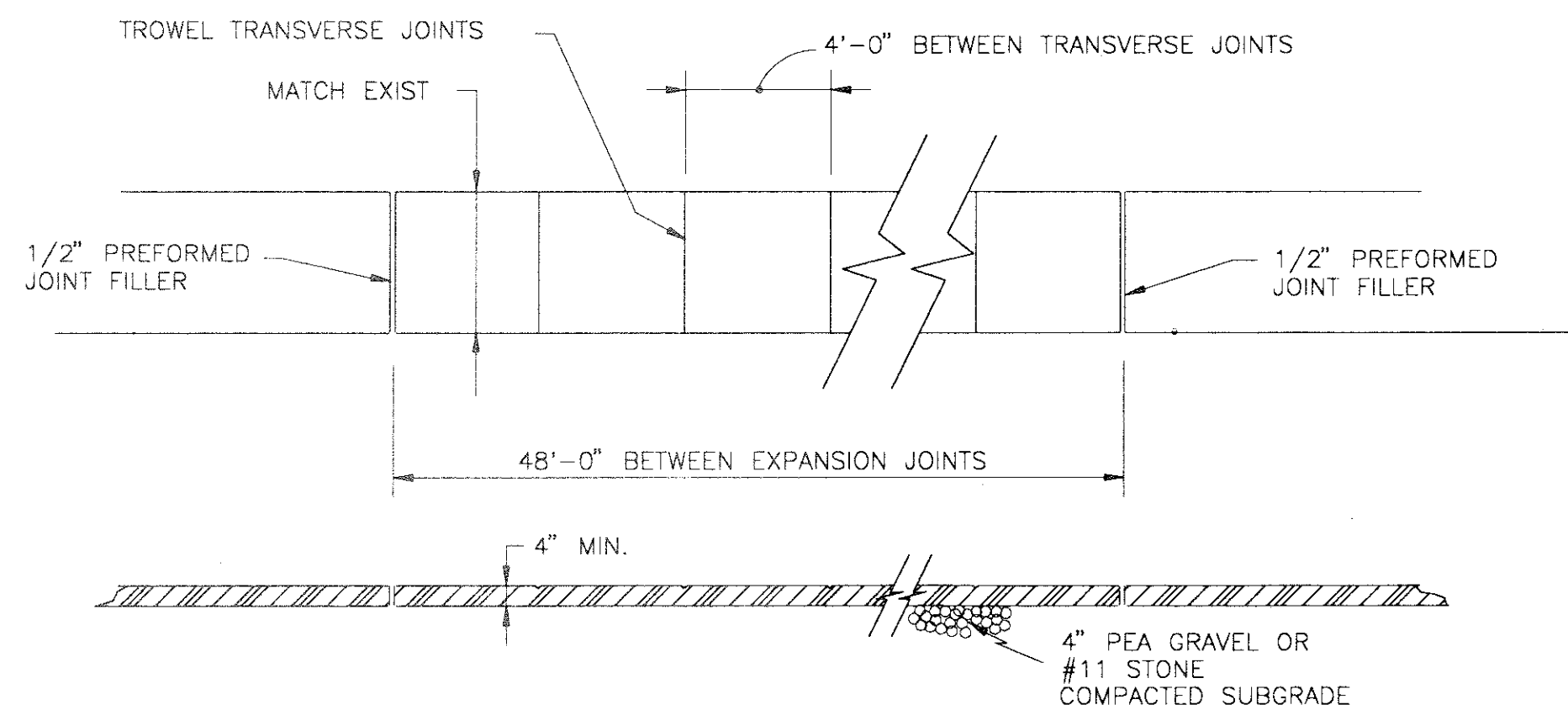
- BM NO. 7
ELEV. 707.49 - MINE SPIKE IN LIGHT POLE @ STA. 6+77.5, 21' RT., S.W. COR. MERIDIAN AND CENTER STREET
- BM NO. 8
ELEV. 708.26 - MINE SPIKE IN LIGHT POLE #C5-2748 @ STA. 10+55.50, 11.5' RT., S.E. COR. MERIDIAN AND CHURCH STREET
- BM NO. 9
ELEV. 704.63 - MINE SPIKE IN LIGHT POLE @ STA. 5+86, 14' RT., EAST COR. CHURCH AND WALNUT STREET
- BM NO. 10
ELEV. 700.59 - MINE SPIKE IN LIGHT POLE @ STA. 3+73, 12.5' LT., N.E. COR. CENTER AND WALNUT STREET

GENERAL NOTES

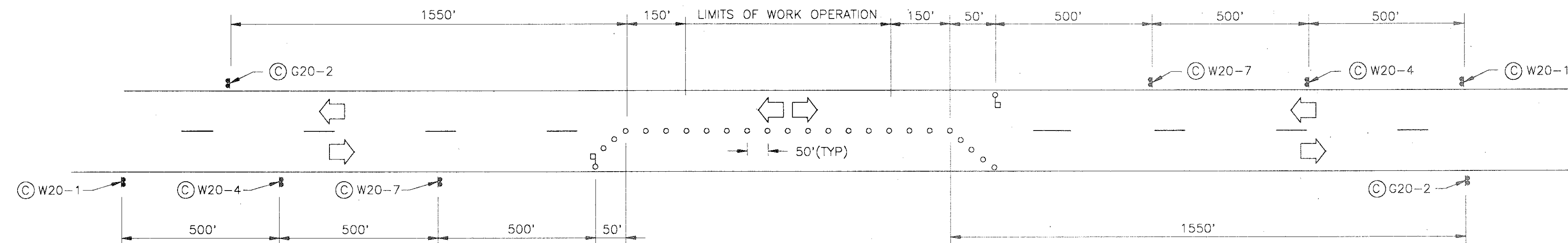
1. MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH SECTION 104.04 OF THE INDIANA STATE HIGHWAY STANDARD SPECIFICATION, DATE 1988, THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AND THE MAINTAINING TRAFFIC SEQUENCE FOR INDIVIDUAL SEGMENTS AS DETAILED.
2. CONTRACTOR SHALL BE REQUIRED TO ERECT AND MAINTAIN ALL CONSTRUCTION SIGNS AS SHOWN. ANY EXISTING SIGNS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION AFTER CONSTRUCTION.
3. THE MAINTENANCE OF TRAFFIC LISTED HERE IS ONLY A RECOMMENDATION AND SHOULD THE CONTRACTOR DESIRE TO ADOPT ANOTHER METHOD OF MAINTAINING TRAFFIC DURING CONSTRUCTION, IT SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL IN ADVANCE OF THE COMMENCEMENT OF WORK IN THE AFFECTED AREA.
4. MAINTENANCE OF TRAFFIC AS SHOWN IN THE DETAIL SHALL BE REQUIRED ONLY WHEN CONSTRUCTION IS WITHIN 12 FEET OF EDGE OF PAVEMENT.

LEGEND

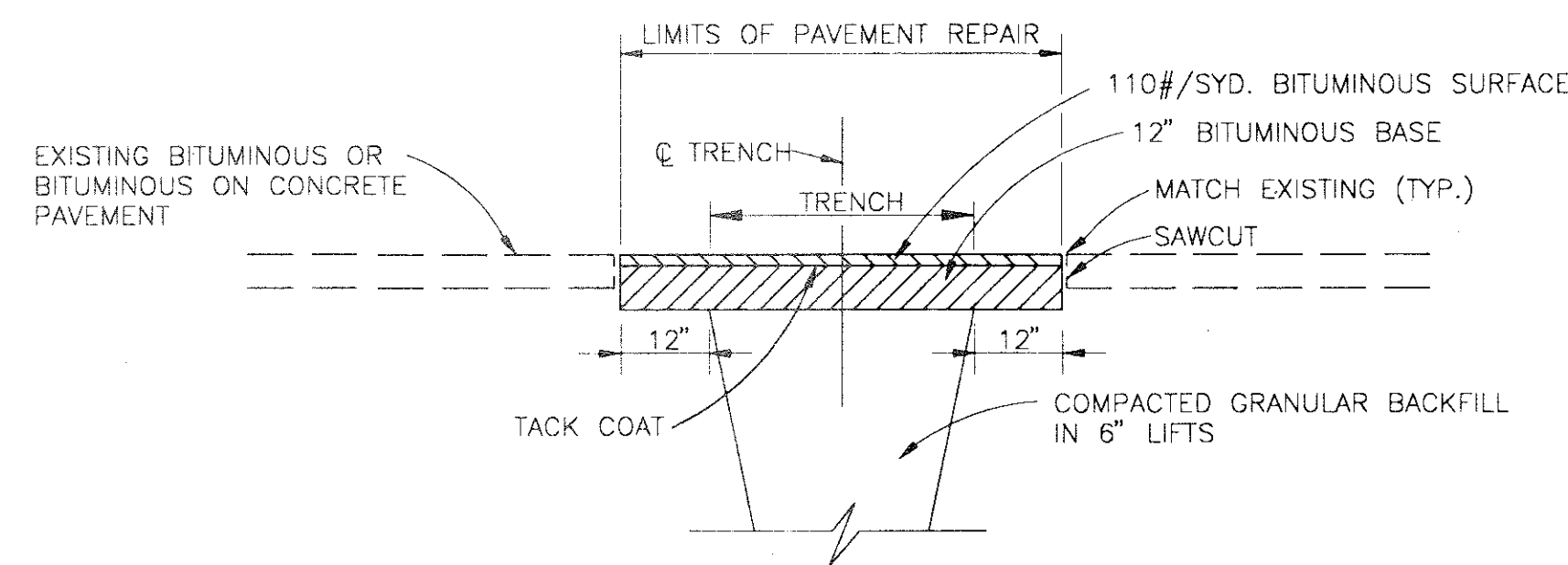
- (C) G20-2
 W20-1
 W20-4
 W20-7
 FLAGMAN
 CONE, DRUMS OR BARRICADES, TYPE I OR II
- CONSTRUCTION SIGNS, TYPE B
 END CONSTRUCTION
 ROAD CONSTRUCTION AHEAD
 ONE LANE ROAD AHEAD
 FLAGMAN AHEAD



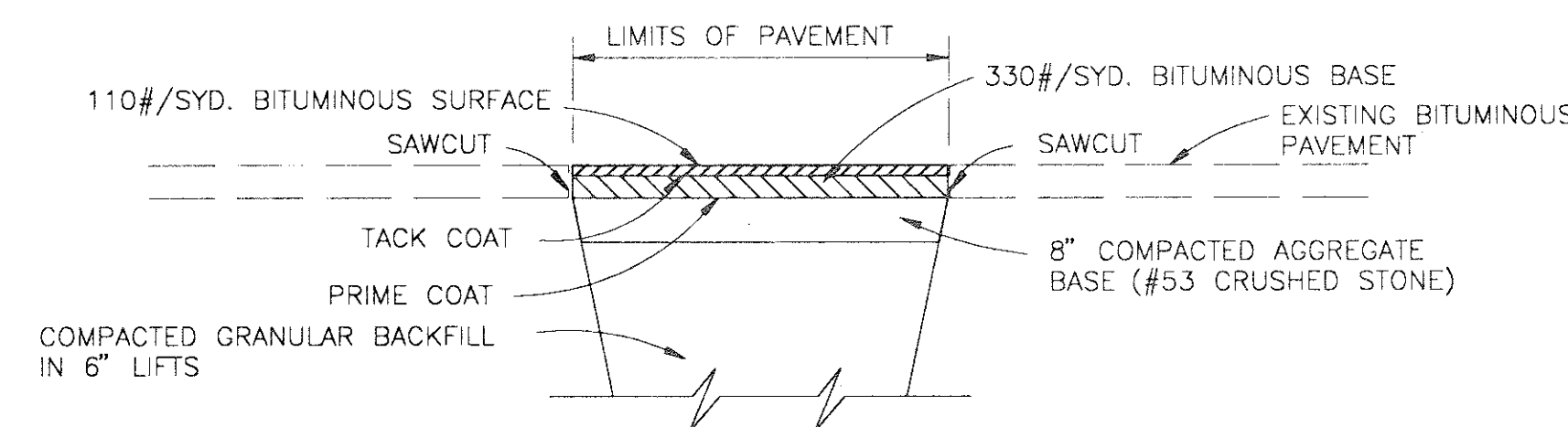
SIDEWALK DETAILS
(STD-16)



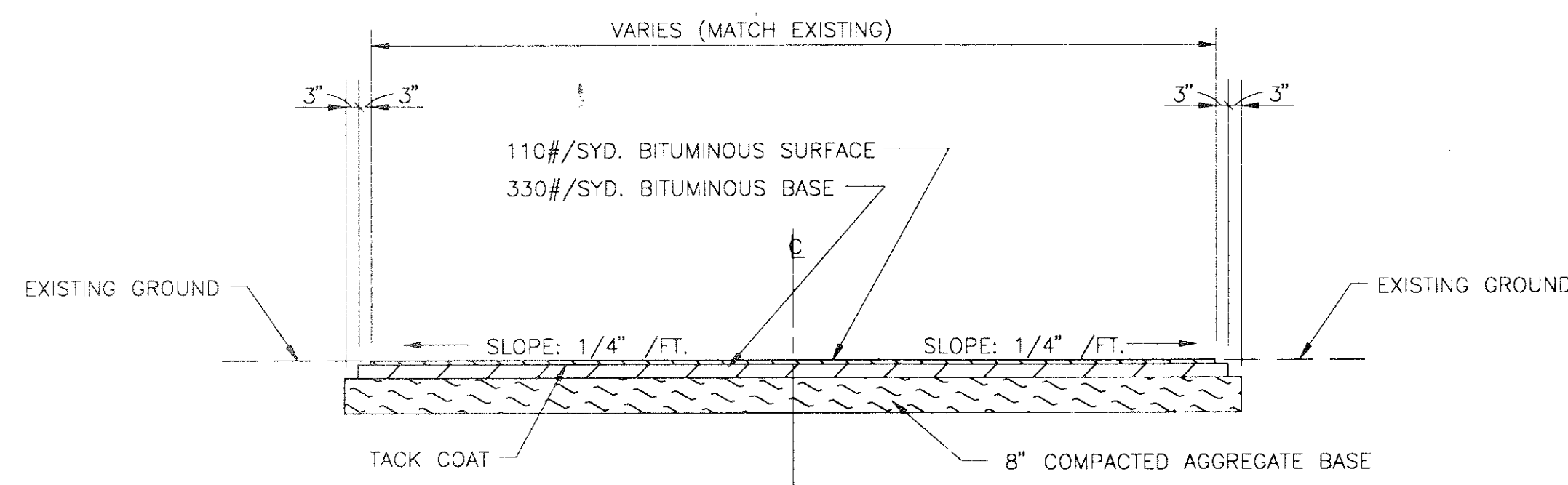
TYPICAL WORK SECTION
(STD-17)



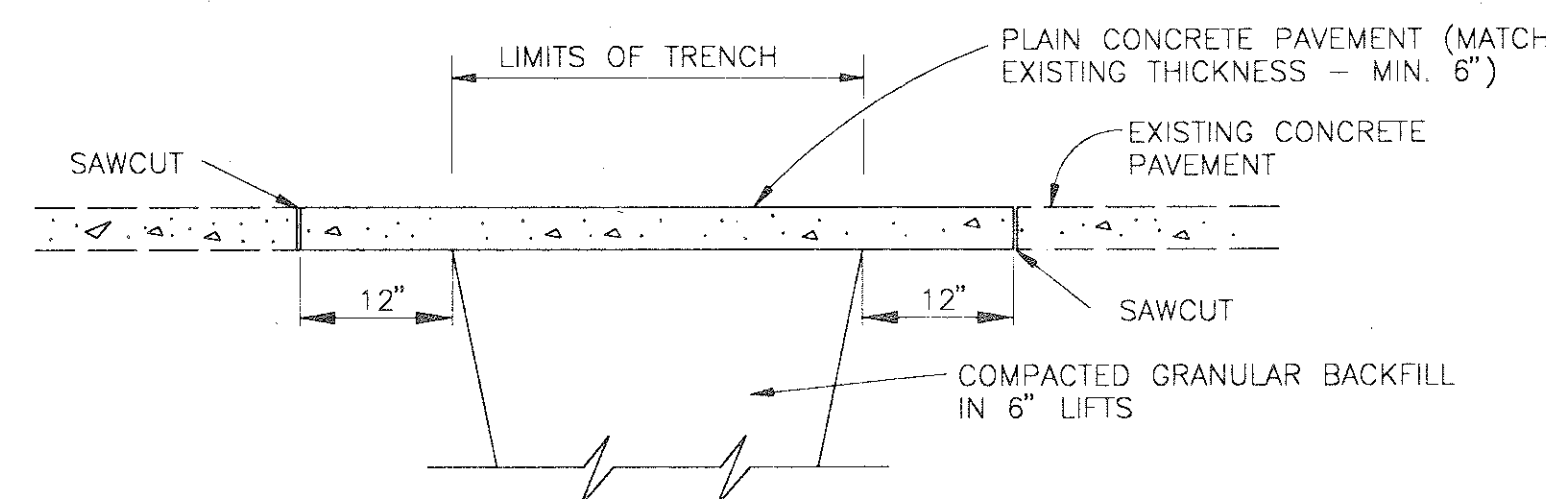
STATE AND COUNTY
HIGHWAY REPAIR FOR BITUMINOUS PAVEMENT
OR BITUMINOUS ON CONCRETE PAVEMENT
(STD-11)



STREET, DRIVE AND ALLEY REPAIR
FOR BITUMINOUS PAVEMENT
(STD-12)

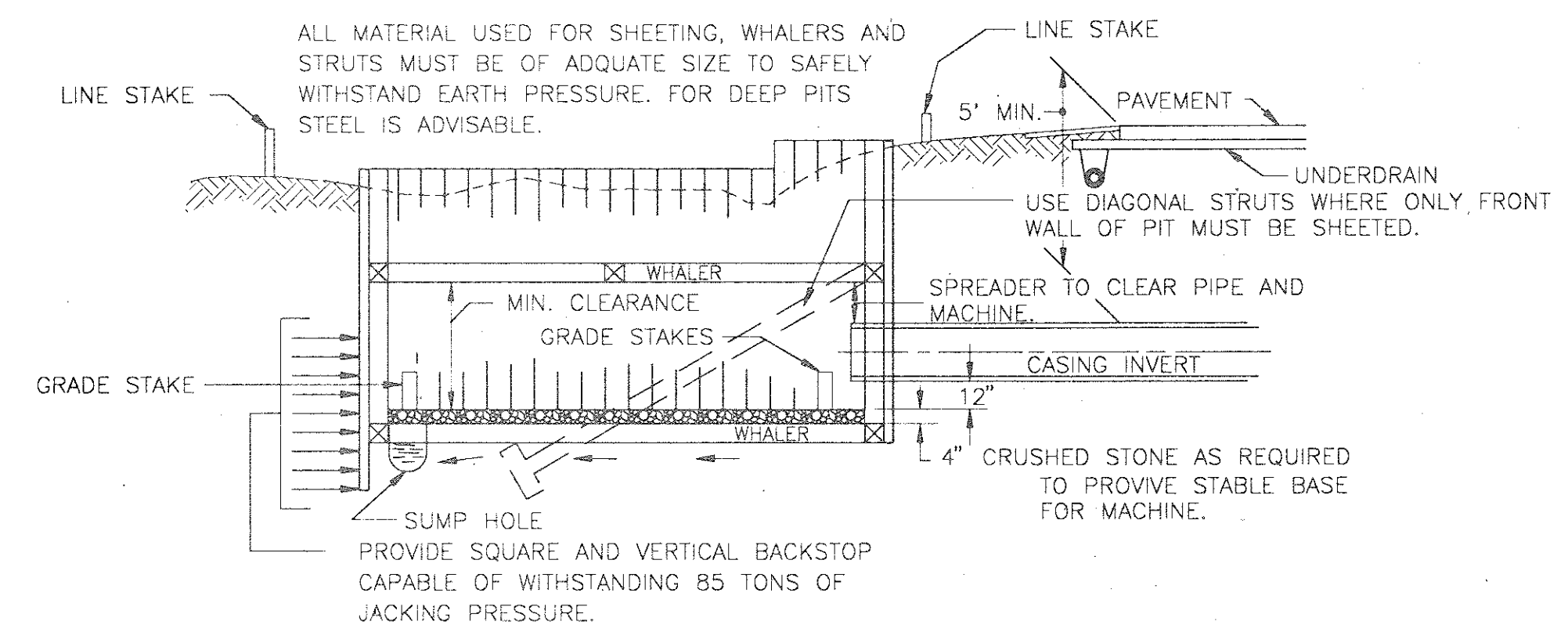
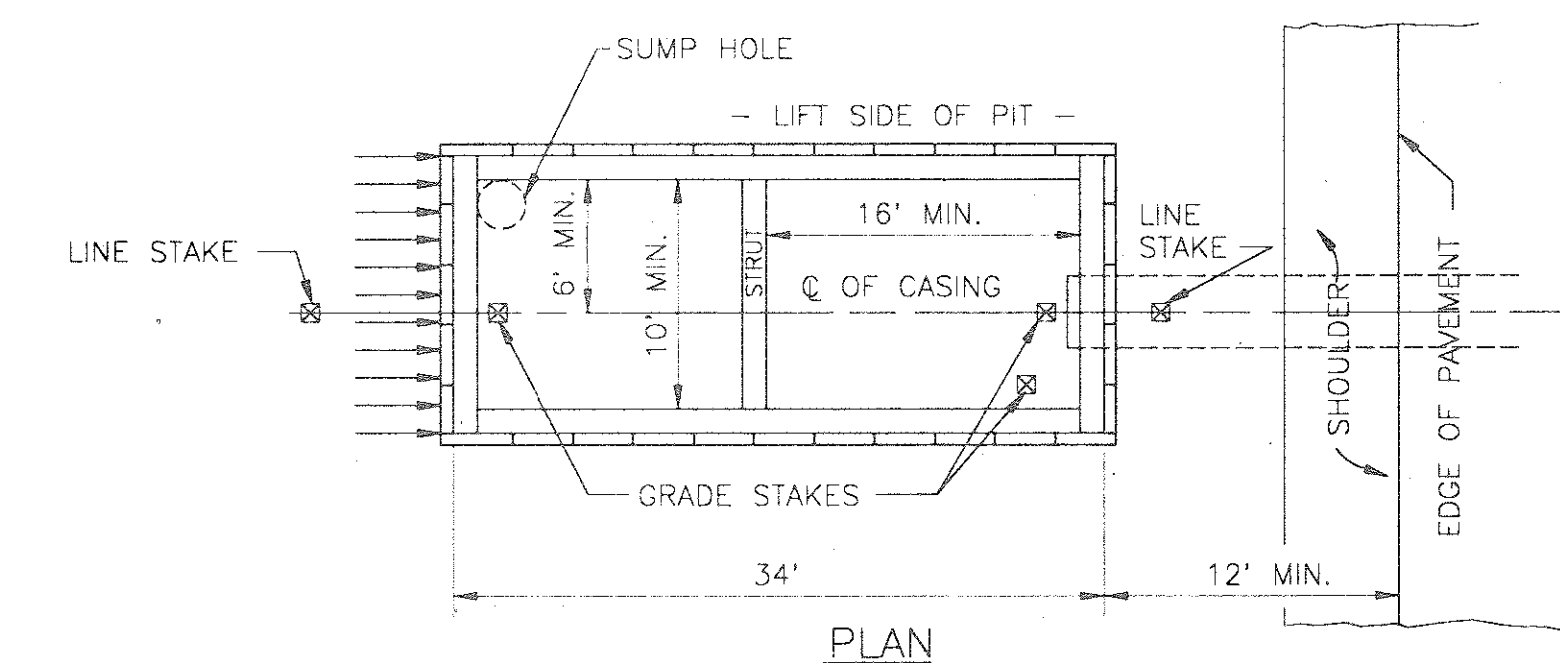


BITUMINOUS PAVEMENT
TYPICAL SECTION FOR ROADWAY REPLACEMENT
(TOWN STREETS)
(STD-13)

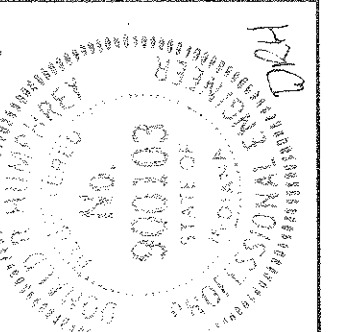


CONCRETE PAVEMENT REPAIR
(STD-15)

- NOTE: 1. ONE SIDE (PREFERABLY THE LEFT SIDE) MUST BE CLEAR AND ACCESSIBLE FOR TRUCK-CRANE OPERATIONS.
2. SHEETING IS REQUIRED WHERE SOIL CONDITIONS WILL NOT ALLOW A SAFE WORKABLE PIT. ANY PORTION OF PIT NOT SHEETED MUST BE SLOPED FOR SAFETY OF MEN AND EQUIPMENT. PIT CONSTRUCTION TO COMPLY WITH ALL PROVISIONS, REQUIREMENTS AND LATEST REVISIONS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970.



SECTION
IMPORTANT: PIT MUST BE CONSTRUCTED WITH SAFETY IN MIND. SHEET OR SLOPE WALLS TO PROVIDE A SAFE WORKABLE PIT.
SUGGESTED BORE OR JACK PIT
FOR HIGHWAY AND RAILROAD
(STD-14)

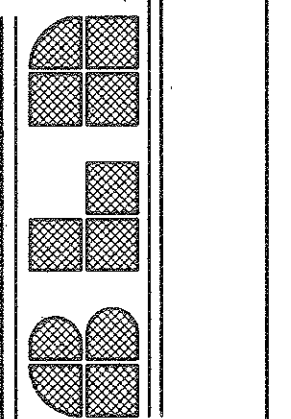


MISCELLANEOUS STREET REPAIR DETAILS

WASTEWATER FACILITIES PROJECT - DIVISION "A & B"
TURKEY RUN R.W.D., MARSHALL & BLOOMINGDALE, IN.

SCALE: NONE
DRAWN BY: SBS
DESIGNED BY: DRH
CERTIFIED BY: DRH
DATE: NOV., 1991

BEAM, LONGEST & NEFF, INC.
CONSULTING ENGINEERS
8126 CASTLETON ROAD
INDIANAPOLIS, INDIANA 46250



REVISIONS	DESCRIPTION
DATE	