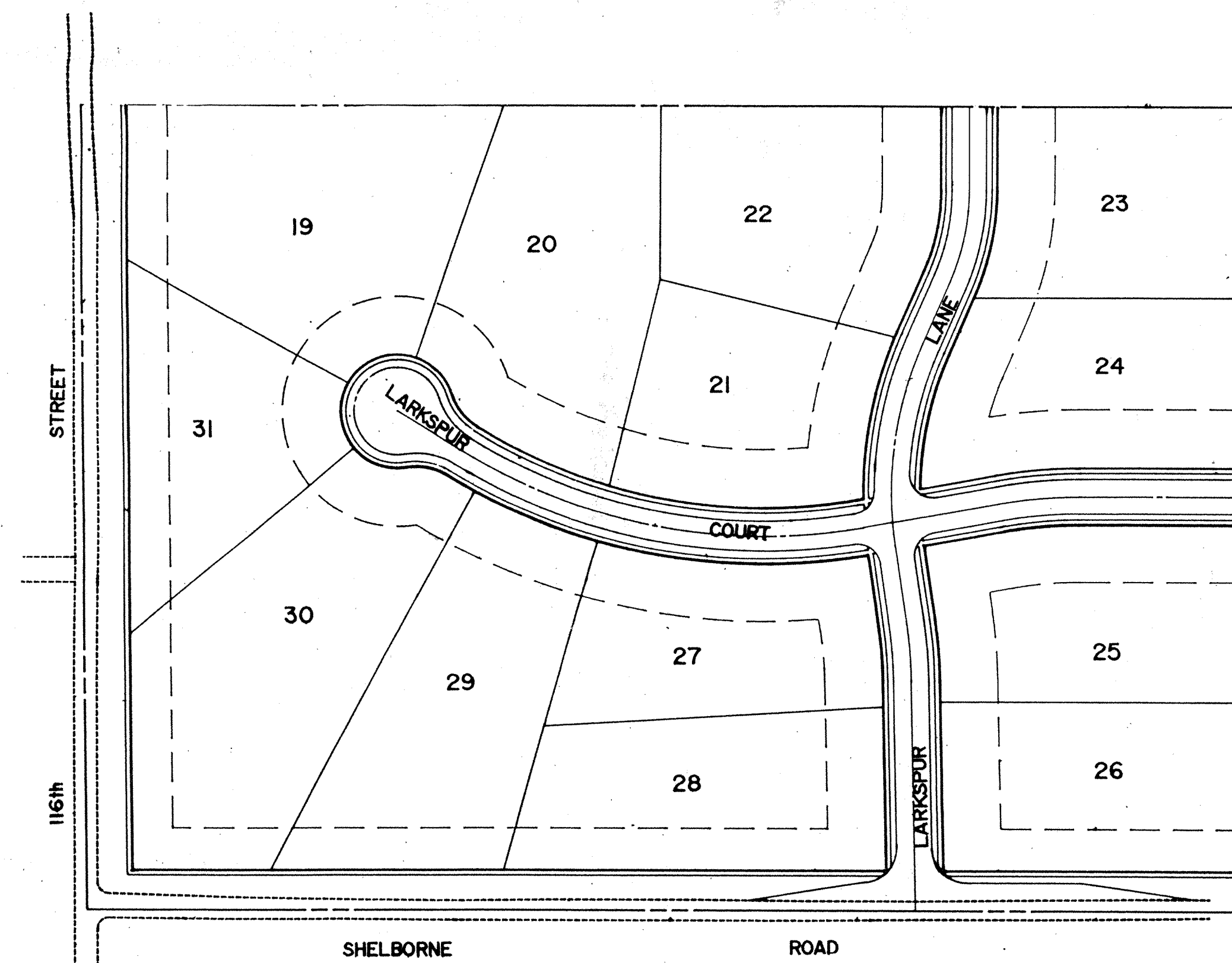


**AREA MAP**



**SITE MAP**

# LARKSPUR PHASE 2 CONSTRUCTION PLANS

**Developer:**

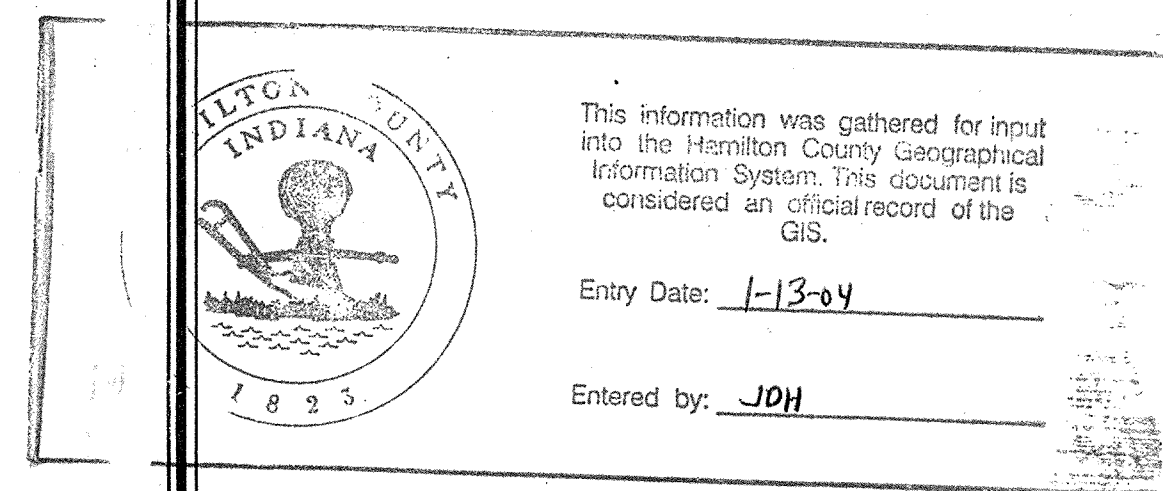
**THE KELLEY GROUP**  
6461 NORTH BROADWAY  
INDIANAPOLIS, INDIANA 46220  
(317) 251-1772

**Engineer:**

**SCHNEIDER ENGINEERING CORP.**  
3020 NORTH POST ROAD  
INDIANAPOLIS, INDIANA 46226  
(317) 898-8282

**INDEX**

SHEET N#	DESCRIPTION
S-1	TITLE SHEET
S-2	REVISIONS & APPROVALS
S-3	LAND DESCRIPTION
S-4	TOPOGRAPHY
S-5	DEVELOPMENT PLAN
S-6-S-7	STREET PLAN
S-8	ENTRANCE PLAN
S-9-S-10	STORM SEWER PLAN
S-11	WATER DISTRIBUTION SYSTEM
S-12-S-13	GENERAL DETAILS
S-14	SPECIFICATIONS
S-15	EROSION CONTROL PLAN
LP-1	LANDSCAPE PLAN
LP-2	LANDSCAPE ENTRANCE PLAN



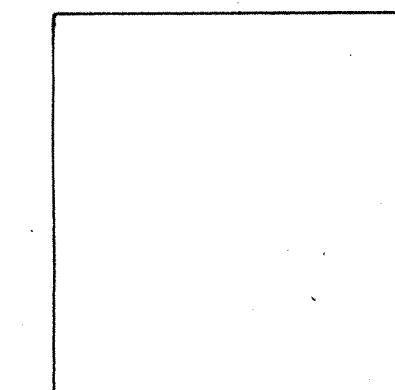
PLANS PREPARED BY:

 **Schneider Engineering Corporation**  
CIVIL ENGINEERS — LAND SURVEYORS

3020 North Post Road  
Indianapolis, Indiana 46226  
Phone: (317) 898-8282

CERTIFIED BY:

JOHN V. SCHNEIDER  
DATE: \_\_\_\_\_



**FILED**  
APR 23 1996  
OFFICE OF HAMILTON COUNTY SURVEYOR

S-1

15





**Land Description**

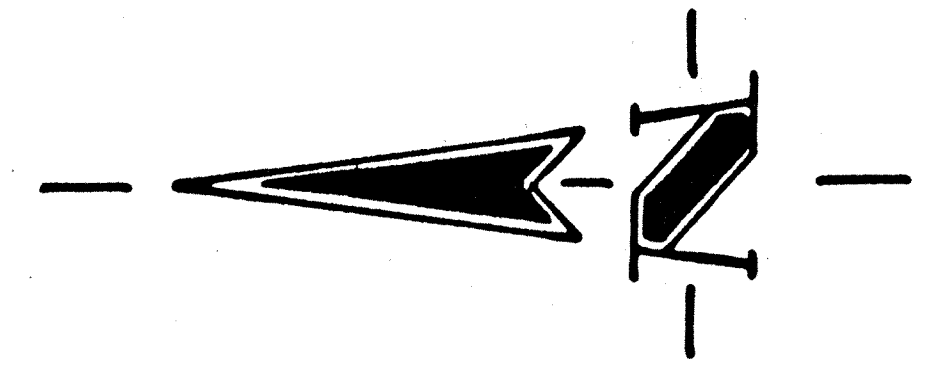
Part of the Northwest Quarter of Section 5, Township 17 North, Range 3 East, Hamilton County, Indiana, and being more particularly described as follows:

Beginning at the Northwest Corner of said quarter section; thence North 89 degrees 36 minutes 06 seconds East (Assumed Bearing) along the North line of said quarter section 698.26 feet; thence South 00 degrees 01 minute 15 seconds West, parallel with the West line of said quarter section, 1313.63 feet; thence South 89 degrees 05 minutes 09 seconds West 698.33 feet to said West line; thence North 00 degrees 01 minute 15 seconds East along said West line 1319.92 feet to the point of beginning and containing 21.107 acres, more or less.

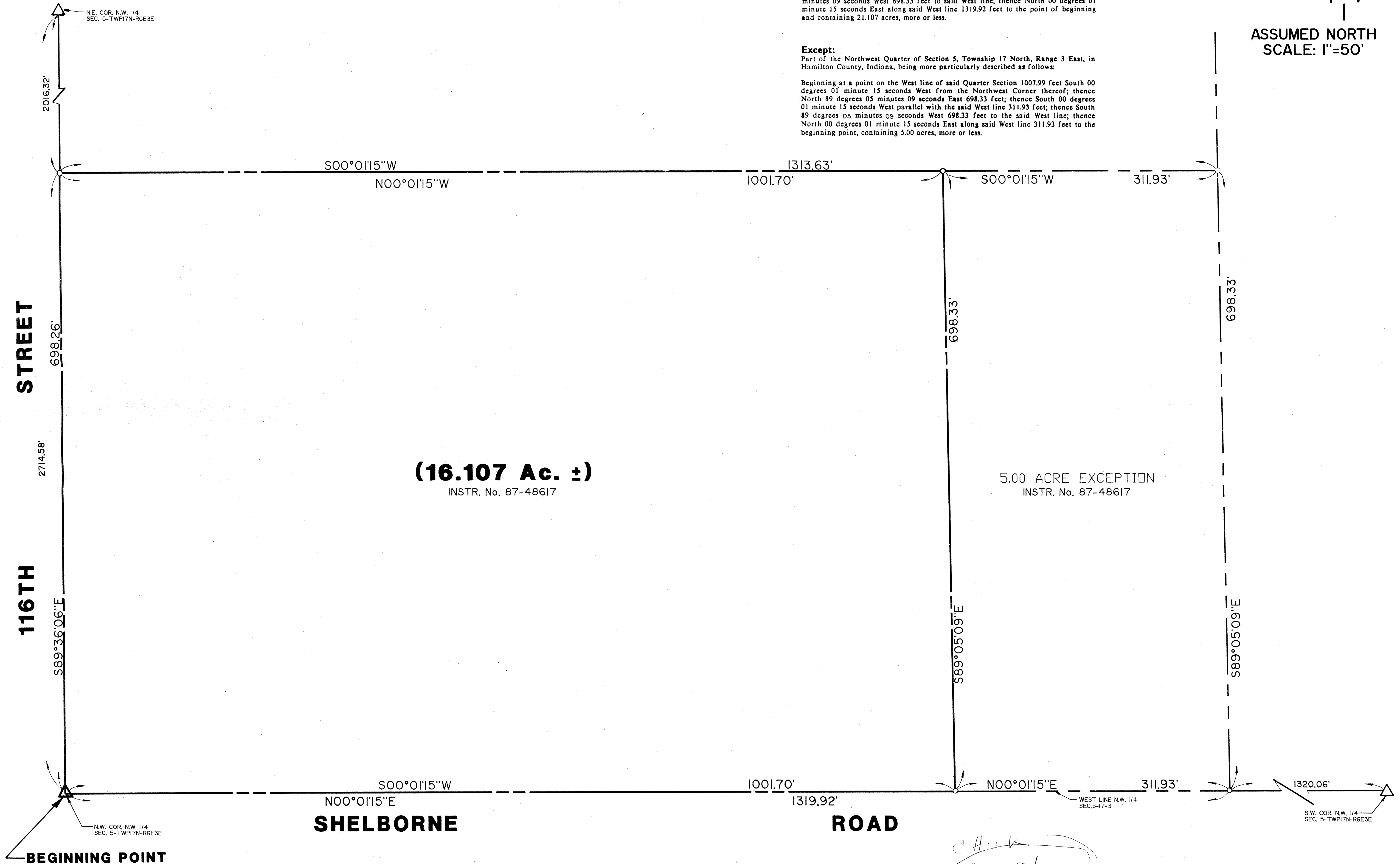
**Except:**

Part of the Northwest Quarter of Section 5, Township 17 North, Range 3 East, in Hamilton County, Indiana, being more particularly described as follows:

Beginning at a point on the West line of said Quarter Section 1007.99 feet South 00 degrees 01 minute 15 seconds West from the Northwest Corner thereof; thence North 89 degrees 05 minutes 09 seconds East 698.33 feet; thence South 00 degrees 01 minute 15 seconds West parallel with the said West line 311.93 feet; thence South 89 degrees 05 minutes 09 seconds West 698.33 feet to the said West line; thence North 00 degrees 01 minute 15 seconds East along said West line 311.93 feet to the beginning point, containing 5.00 acres, more or less.



**ASSUMED NORTH  
SCALE: 1"=50'**



**(16.107 Ac. ±)**  
INSTR. No. 87-48617

5.00 ACRE EXCEPTION  
INSTR. No. 87-48617

*Handwritten note:* 6.29' off

REVISIONS	
NO.	DESCRIPTION

DATE	CHECK NO.	BY	DATE	CHECK
12/12/95	172369			

PROJECT	LARKSPUR (PHASE 2)
JOB NO.	657.02
PREPARED FOR	THE KELLEY GROUP
TITLE	LAND DESCRIPTION
SCALE	AS NOTED

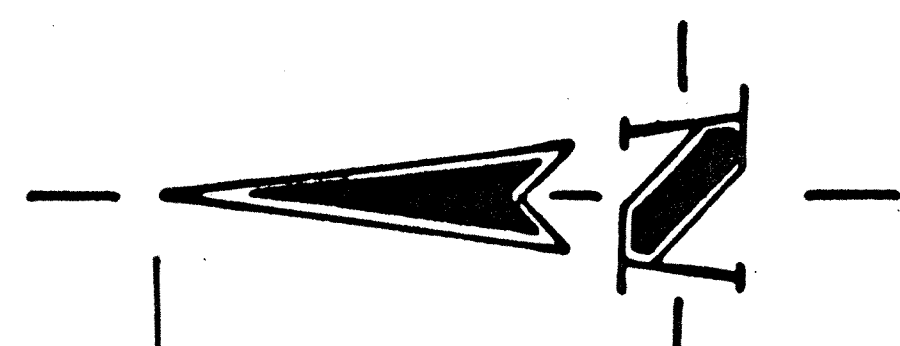
  

SCHNEIDER ENGINEERING CORPORATION	CERTIFIED
INDIANAPOLIS, INDIANA 46226-8518	
(317) 699-8933	
P.O. BOX 26068	

**FILED**  
APR 23 1996  
OFFICE OF HAMILTON COUNTY SURVEYOR

This copy printed from the Digital Archive of the Hamilton County Surveyor's Office; One Hamilton Co. Square, Ste. 188, Noblesville, In 46060

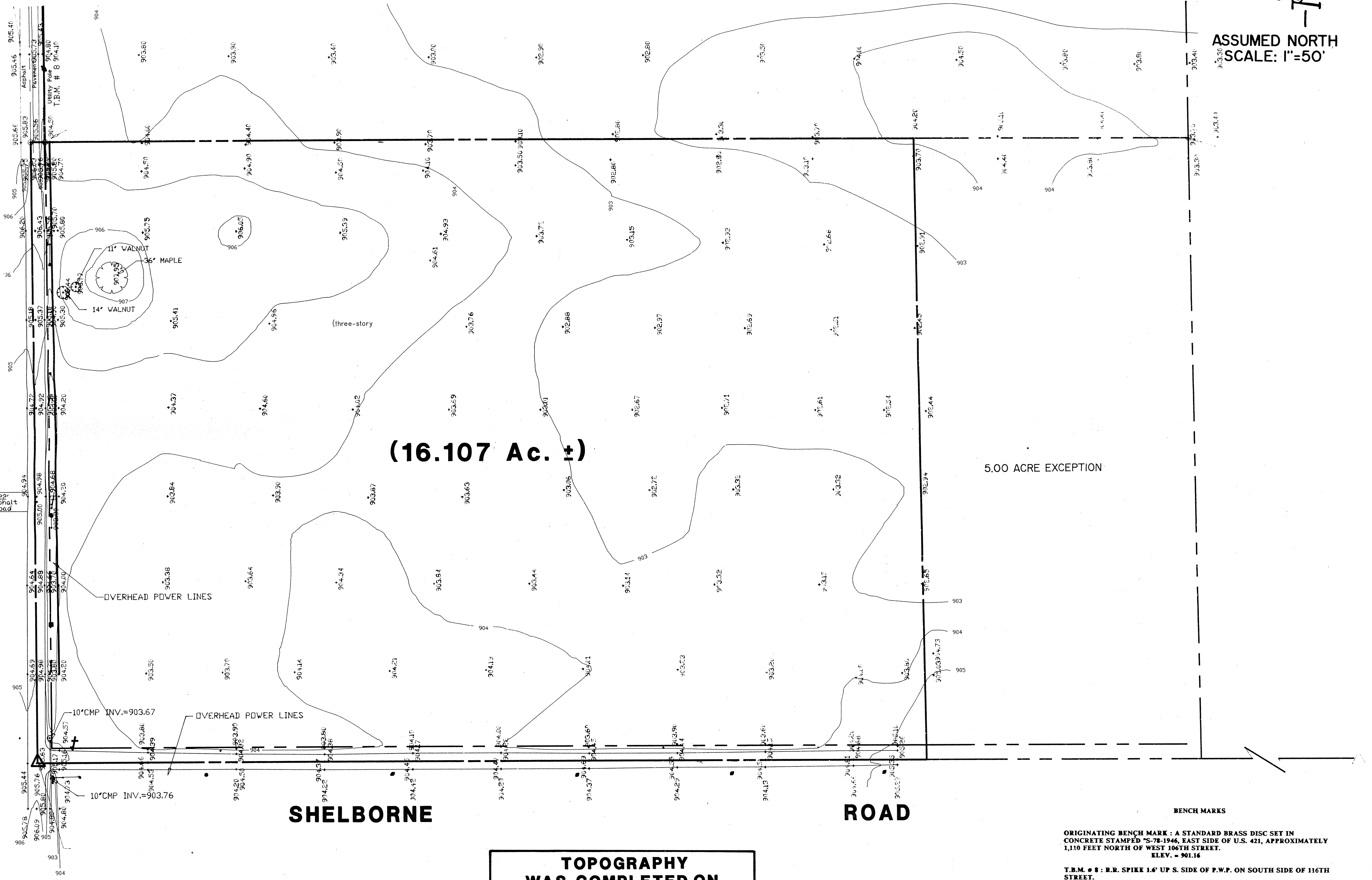




ASSUMED NORTH  
SCALE: 1"=50'

STREET

116TH



(16.107 Ac. ±)

5.00 ACRE EXCEPTION

SHELBORNE

ROAD

**TOPOGRAPHY  
WAS COMPLETED ON  
4/27/88**

**BENCH MARKS**  
ORIGINATING BENCH MARK : A STANDARD BRASS DISC SET IN  
CONCRETE STAMPED "S-78-1946, EAST SIDE OF U.S. 421, APPROXIMATELY  
1,110 FEET NORTH OF WEST 106TH STREET.  
ELEV. = 901.16  
T.B.M. # 8 : R.R. SPIKE 1.6' UP S. SIDE OF P.W.P. ON SOUTH SIDE OF 116TH  
STREET.  
ELEV. = 906.10  
T.B.M. # 9 : R.R. SPIKE S. SIDE OF P.W.P. # 6-099-B ON SOUTH SIDE OF  
116TH STREET  
ELEV. = 904.89  
(NOTE: BENCH MARKS WERE ESTABLISHED FROM S.E.C. JOB # 575)

DATE	CHECK	NO.	BY	DATE	CHECK
7/10/87		272			

REVISIONS

**S**  
SCHNEIDER ENGINEERING CORPORATION  
INDIANAPOLIS, INDIANA 46226-8518  
INDIANAPOLIS, INDIANA 46226-8518  
P.O. BOX 26668  
CERTIFIED

PROJECT: LARKSPUR (PHASE 2)  
JOB NO: 657.02  
PREPARED FOR: THE KELLEY GROUP  
TITLE: TOPOGRAPHY  
SCALE: AS NOTED

FILED  
SHEET 64  
OF 15  
APR 23 1996  
OFFICE OF HAMILTON COUNTY SURVEYOR



**Utilities**

**Gas**  
Indiana Gas Company  
15900 Allisonville Road  
Noblesville, Indiana 46060  
(317)773-0430

**Water**  
Indianapolis Water Company  
1220 Waterway Blvd  
Indianapolis, Indiana 46220  
(317)639-1501

**Telephone**  
Indiana Bell Telephone Co.  
220 North Meridian Street  
Indianapolis, Indiana 46220  
252-5878 or 1-800-382-5544

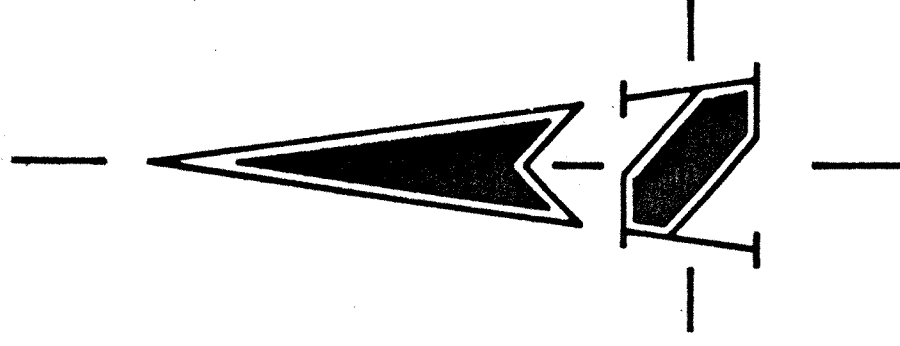
**Electric**

**Storm Sewer**  
Hamilton County Surveyor  
Hamilton County Courthouse  
Noblesville, Indiana 46060  
(317)886-9626

**Streets**  
Hamilton County Highway Dept.  
1717 East Pleasant  
Noblesville, Indiana 46060  
(317)773-7770

**Cable TV**  
ACCU Cable  
516 East Carmel Drive  
Carmel, Indiana 46032  
(317)844-8877

**NOTE**  
**ABSOLUTELY NO TRAFFIC TO BE PERMITTED ON THE PROPOSED SEPTIC ABSORPTION FIELD AREAS.**



HOLEY MOLEY SAYS,  
**"DON'T DIG BLIND"**

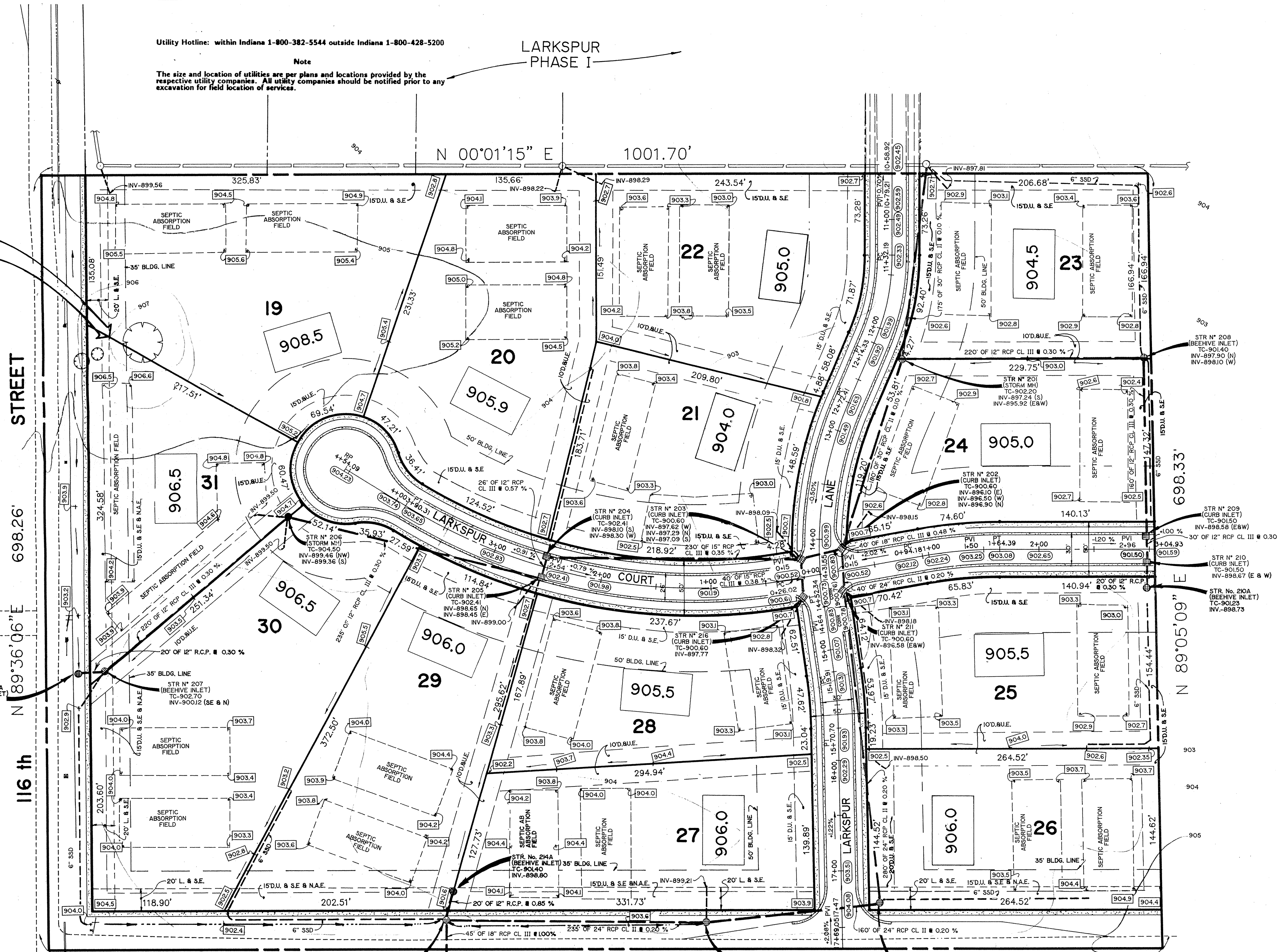
**1-800-382-5544**  
CALL TOLL FREE  
**1-800-428-5200**  
FOR CALLS OUTSIDE OF INDIANA

Utility Hotline: within Indiana 1-800-382-5544 outside Indiana 1-800-428-5200

**Note**  
The size and location of utilities are per plans and locations provided by the respective utility companies. All utility companies should be notified prior to any excavation for field location of services.

LARKSPUR PHASE I

EXISTING TREES TO BE PROTECTED DURING ALL PHASES OF CONSTRUCTION. ABSOLUTELY NO GRADING WITHIN DRIP LINES OF TREES.



- GENERAL NOTES:**
- ALL GRADES AT BOUNDARY SHALL MEET EXISTING GRADES.
  - IT SHALL BE THE RESPONSIBILITY OF EACH SUBCONTRACTOR TO VERIFY ALL EXISTING UTILITIES AND CONDITIONS PERTAINING TO HIS PHASE OF WORK. IT SHALL ALSO BE THE SUBCONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNERS OF THE VARIOUS UTILITIES FOR PROPER STAKE LOCATION OF EACH UTILITY BEFORE WORK IS STARTED. THE SUBCONTRACTOR SHALL NOTIFY IN WRITING THE OWNER OR THE ENGINEER OF ANY CHANGES, OMISSIONS, OR ERRORS FOUND ON THESE PLANS OR IN FIELD BEFORE WORK IS STARTED OR RESUMED.
  - STANDARD SPECIFICATIONS FOR THE CITY OF CARMEL, INDIANA SHALL APPLY FOR ALL STORM SEWERS.
  - ANY PART OF THE STORM SEWER TRENCHES RUNNING UNDER PAVED AREAS TO BE BACKFILLED WITH GRANULAR MATERIAL.
  - THE SIZE AND LOCATION OF EXISTING UTILITIES SHOWN ARE PER INFORMATION PROVIDED BY THE RESPECTIVE UTILITY COMPANIES. ALL UTILITY COMPANIES SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION FOR FIELD LOCATION OF SERVICES.
  - SERVICE WALKS SHALL OF NON-REINFORCED CONCRETE 4" THICK AND 4' IN WIDTH.
  - TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
  - ALL CONSTRUCTION ACTIVITY ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE O.S.H.A. STANDARDS FOR WORKER SAFETY.
  - EXPANSION JOINTS ARE TO BE PLACED AT ALL WALK INTERSECTIONS AND BETWEEN WALKS AND PLATFORMS. SIDEWALK SCORES ARE TO BE EQUALLY SPACED BETWEEN EXPANSION JOINTS. CONTRACTION JOINTS AND PERPENDICULAR SIDEWALKS AT 8' INTERVALS OR LESS WITH A CONTRACTION JOINT EVERY 20'.
  - 4" CONCRETE SERVICE WALK ACROSS FRONTAGE OF EACH LOT TO BE CONSTRUCTED BY OTHERS.

**BENCH MARKS**

ORIGINATING BENCH MARK: A STANDARD BRASS DISC SET IN CONCRETE STAMPED "S-78-1946, EAST SIDE OF U.S. 421, APPROXIMATELY 1,110 FEET NORTH OF WEST 116TH STREET.  
ELEV. = 901.16

T.B.M. # 1: R.R. SPIKE 1/2" UP E. SIDE OF P.W.P. ON SOUTH SIDE OF 116TH STREET.  
ELEV. = 906.10

T.B.M. # 9: R.R. SPIKE S. SIDE OF P.W.P. # 6-099-B ON SOUTH SIDE OF 116TH STREET  
ELEV. = 904.89

(NOTE: BENCH MARKS WERE ESTABLISHED FROM S.E.C. JOB # 575)

- LEGEND**
- Match Existing Grade Elevation
  - Subsurface Drain
  - New Storm Sewer Inlet
  - New Storm Sewer End Section
  - Finished Pavement Elevations
  - All Other Finished Elevations
  - Existing Contour

**LEGEND**

- D.U. & S.E. DRAINAGE, UTILITY AND SEWER EASEMENT
- D. & U.E. DRAINAGE AND UTILITY EASEMENT
- L. & S.E. LANDSCAPE AND SIGN EASEMENT
- D.U. & S.E. & N.A.E. DRAINAGE, UTILITY AND SEWER EASEMENT AND NON-ACCESS EASEMENT

REVISIONS

NO.	DATE	CHECK	BY

DRAWN: M.L.P. 1/27/93

PROJECT: LARKSPUR (PHASE 2)  
PREPARED FOR: THE KELLEY GROUP  
TITLE: DEVELOPMENT PLAN

SCALE: 1" = 30'

PROJECT NO. 657.02

SCHNEIDER ENGINEERING CORPORATION  
3020 NORTH POST ROAD  
INDIANAPOLIS, INDIANA 46226  
(317) 898-8282  
P.O. BOX 20685

CERTIFIED  
civil engineers  
land surveyors

SHEET OF 5-5  
15

**FILED**  
APR 23 1996  
OFFICE OF HAMILTON COUNTY SURVEYOR



HOLEY MOLEY SAYS.

**"DON'T DIG BLIND"**



1-800-382-5544  
CALL TOLL FREE  
1-800-428-5200  
FOR CALLS OUTSIDE OF INDIANA

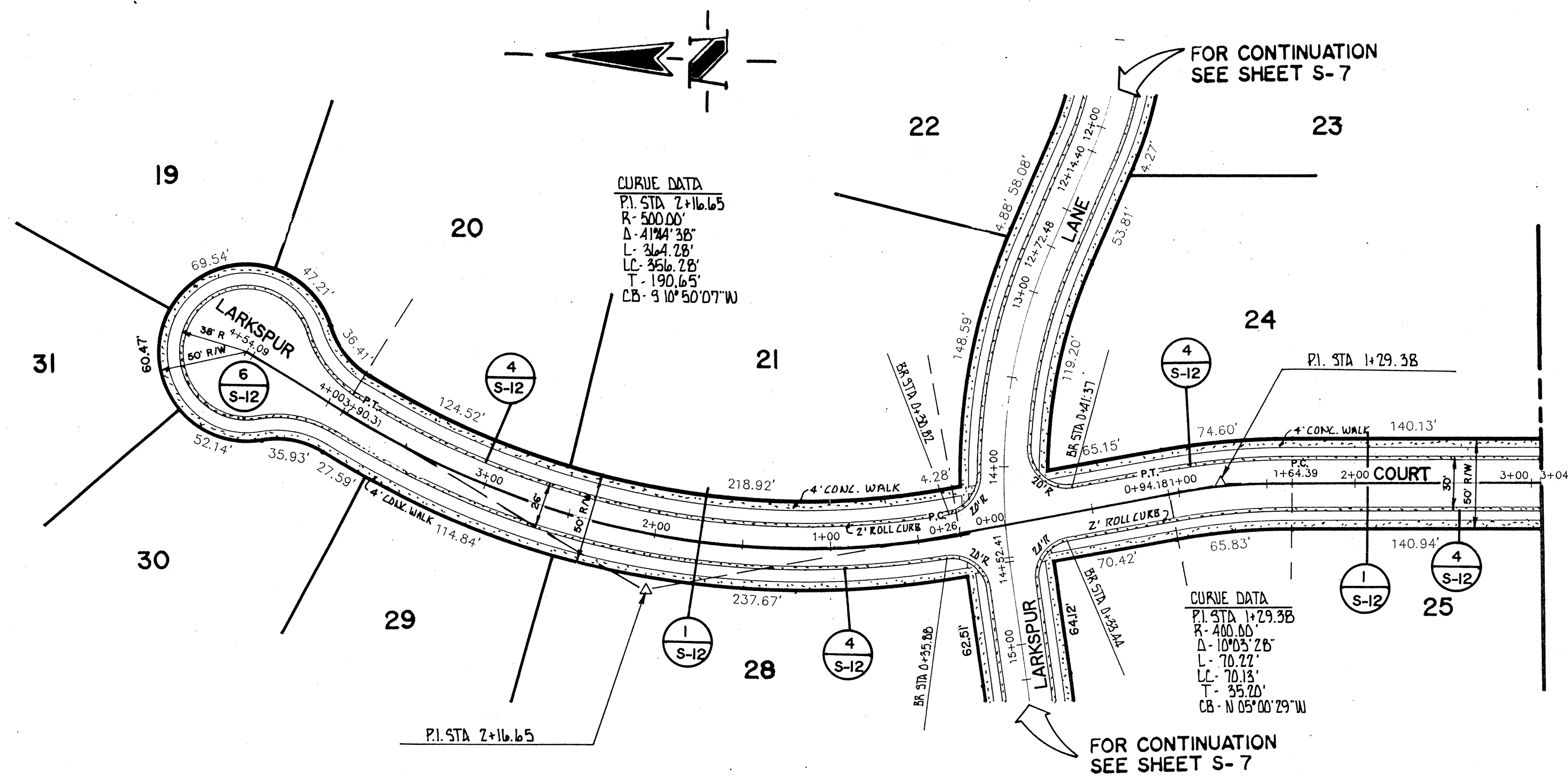
**BENCH MARKS**

ORIGINATING BENCH MARK: A STANDARD BRASS DISC SET IN CONCRETE STAMPED "S-78-1946, EAST SIDE OF U.S. 421, APPROXIMATELY 1,110 FEET NORTH OF WEST 106TH STREET.  
ELEV. = 901.16

T.B.M. # 8: R.R. SPIKE 1.6' UP S. SIDE OF P.W.P. ON SOUTH SIDE OF 116TH STREET.  
ELEV. = 906.10

T.B.M. # 9: R.R. SPIKE S. SIDE OF P.W.P. # 6-099-B ON SOUTH SIDE OF 116TH STREET  
ELEV. = 904.89

903  
(NOTE: BENCH MARKS WERE ESTABLISHED FROM S.E.C. JOB # 575)

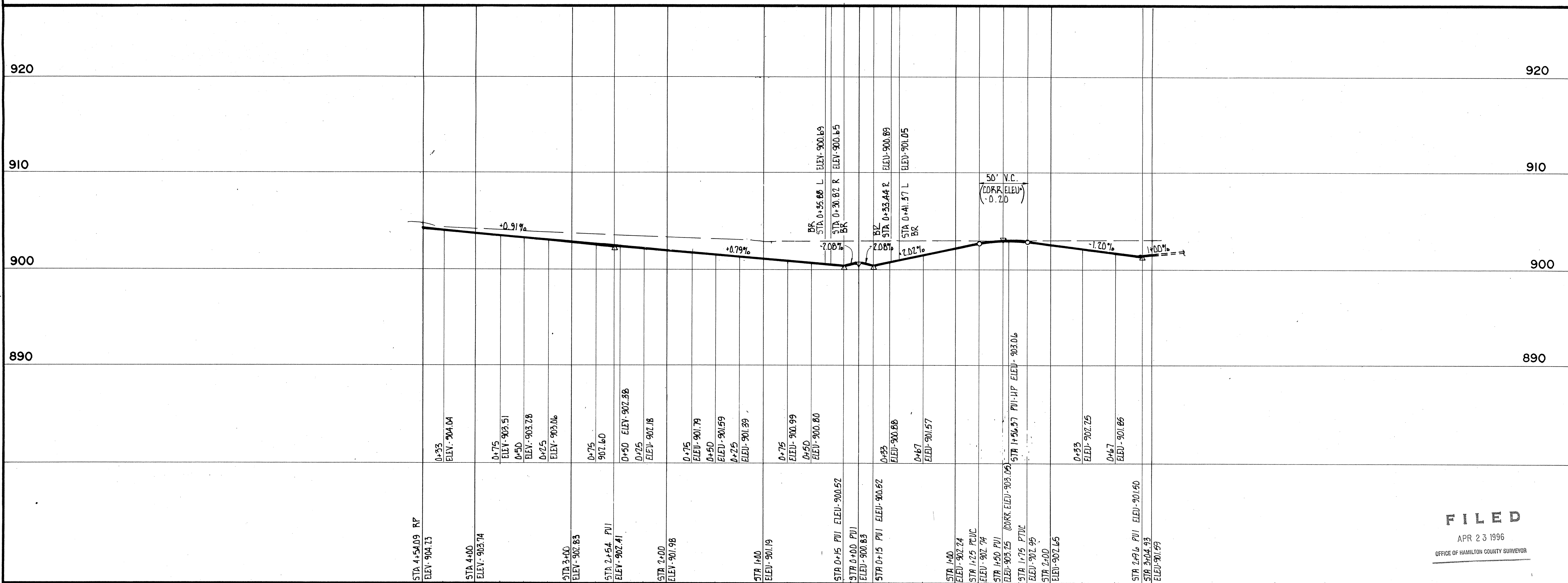


**GENERAL NOTES:**

1. ALL CUTS ARE TAKEN FROM THE EXISTING GRADE TO THE NEW GRADE.
2. TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
3. ALL CONSTRUCTION ACTIVITY ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE O.S.H.A. STANDARDS FOR WORKER SAFETY.
4. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL UTILITY LOCATIONS BEFORE CONSTRUCTION BEGINS.
5. CONTRACTOR SHALL MINIMIZE DAMAGE TO EXISTING TREES.

**PLAN OF STREET**

SCALE: 1" = 50'



**PROFILE OF STREET**

SCALE: VERT. 1" = 5'  
HORIZ. 1" = 50'

**FILED**  
APR 23 1996  
OFFICE OF HAMILTON COUNTY SURVEYOR

REVISIONS

NO.	DATE	CHECK	BY
1	3.11.95	BY	

DRAWN

NO.	DATE	CHECK	BY
1	3.11.95	BY	

PROJECT: LARKSPUR (PHASE 2)  
JOB NO. 657.02  
PREPARED FOR: THE KELLEY GROUP  
TITLE: STREET PLAN  
SCALE: AS NOTED

SCHNEIDER ENGINEERING CORPORATION  
350 NORTH EAST ROAD  
INDIANAPOLIS, INDIANA 46228-8518  
(317) 898-8382  
P.O. BOX 26068  
CERTIFIED

SHEET S-6 OF 15



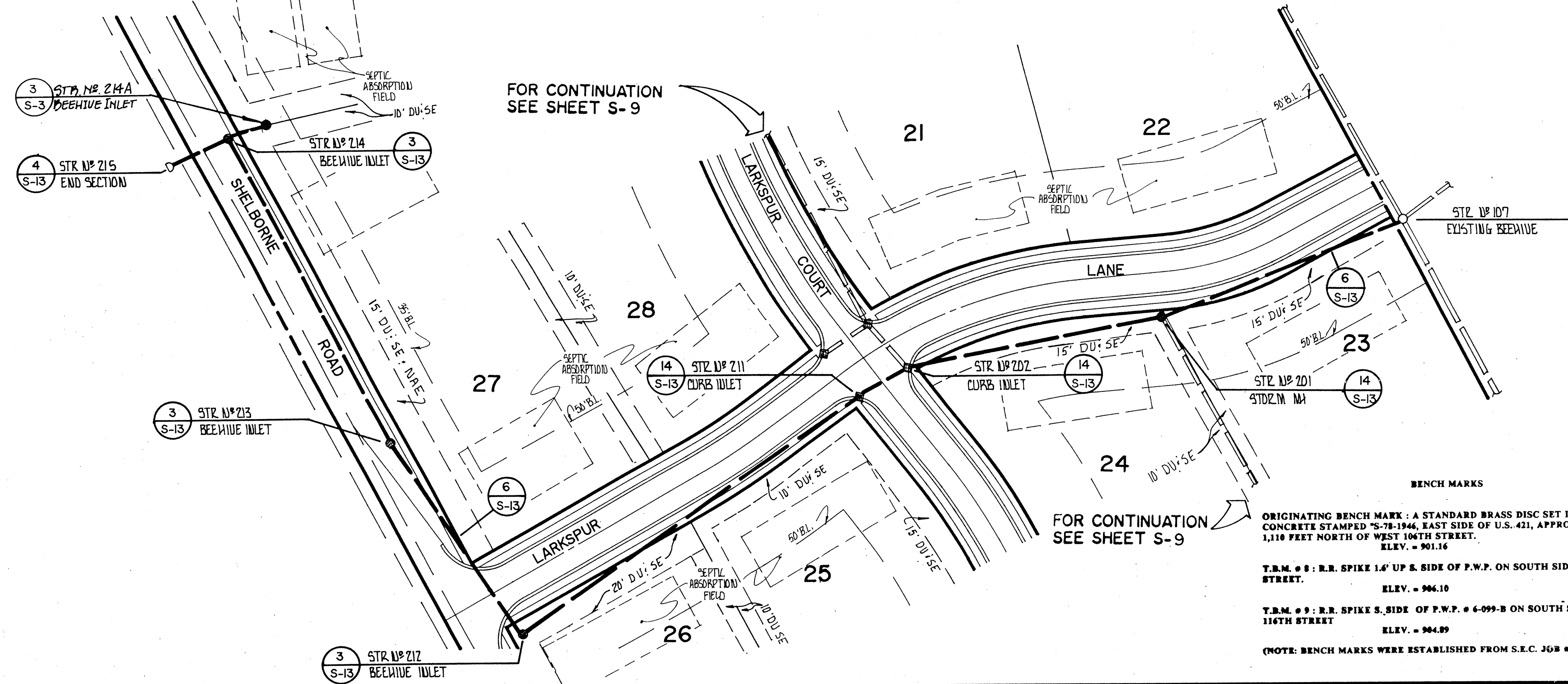












HOLEY MOLEY SAYS,  
**"DON'T DIG BLIND"**

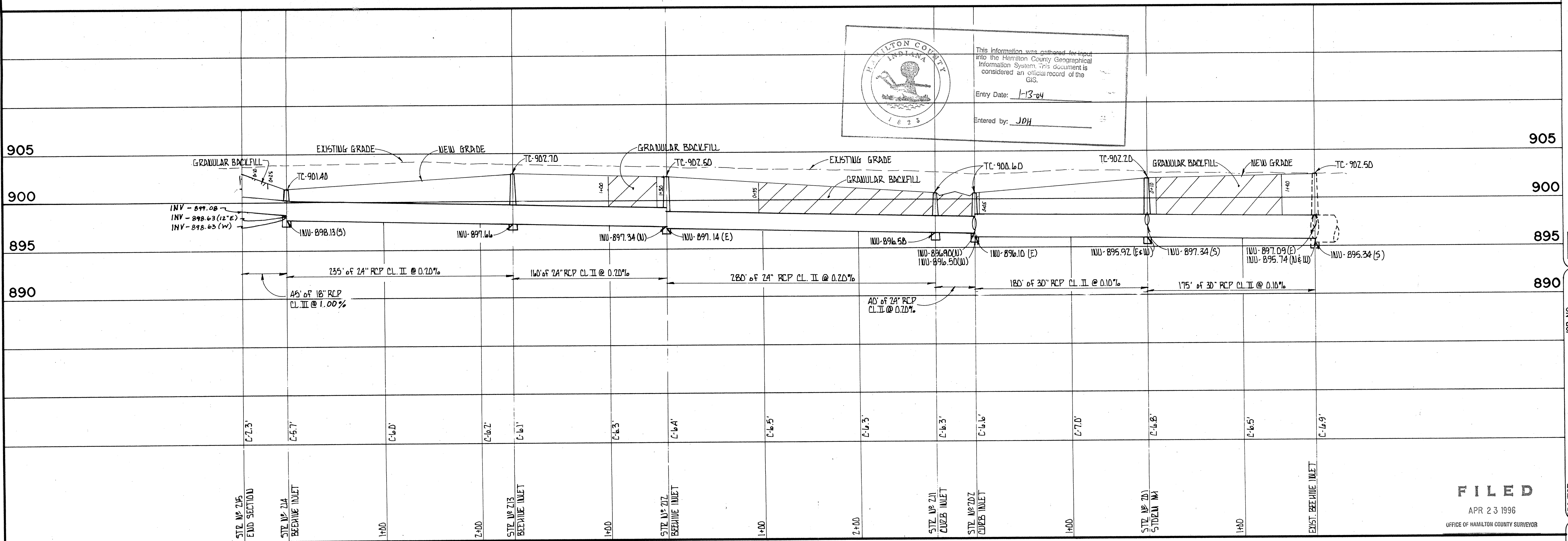
1-800-382-5544  
 CALL TOLL FREE  
 1-800-428-5200  
 FOR CALLS OUTSIDE OF INDIANA

ASSUMED NORTH  
 SCALE: 1"=50'

- GENERAL NOTES:
- ALL CUTS ARE TAKEN FROM THE EXISTING GRADE TO THE PIPE INVERT.
  - ALL STATIONING IS TAKEN FROM THE NEAREST DOWNSTREAM STRUCTURE.
  - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL UTILITY LOCATIONS BEFORE CONSTRUCTION BEGINS.
  - TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
  - ALL CONSTRUCTION ACTIVITY ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE O.S.H.A. STANDARDS FOR WORKER SAFETY.
  - CONTRACTOR SHALL MINIMIZE DAMAGE TO EXISTING TREES.

### STORM SEWER PLAN

SCALE: 1" = 50'



### STORM SEWER PROFILE

SCALE: HORIZ.: 1"=50'  
 VERT.: 1"=5'

REVISIONS

NO.	DATE	CHECK NO.	BY	DATE	CHECK
1	3.11.96				

DRAWN BY: [ ]

CHECKED BY: [ ]

DATE: [ ]

CHECK NO.: [ ]

BY: [ ]

DATE: [ ]

CHECK: [ ]

SCHNEIDER ENGINEERING CORPORATION  
 3020 NORTH POST ROAD  
 INDIANAPOLIS, INDIANA 46226-6518  
 (317) 886-8822  
 P.O. BOX 28068

civil engineers  
 land surveyors

JOB NO. 657.02

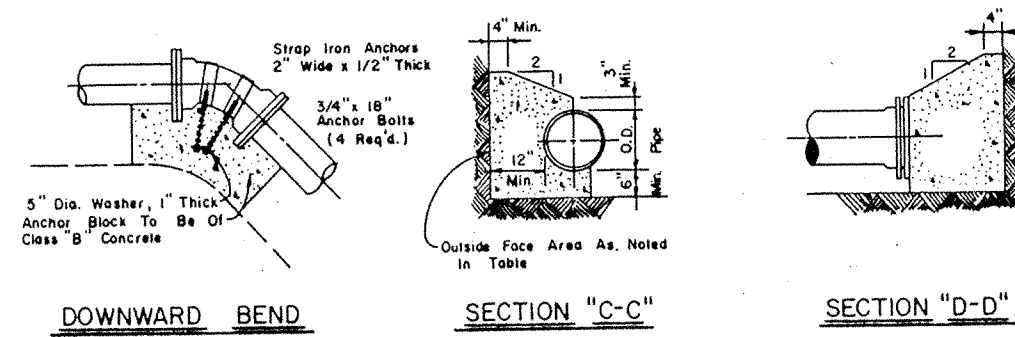
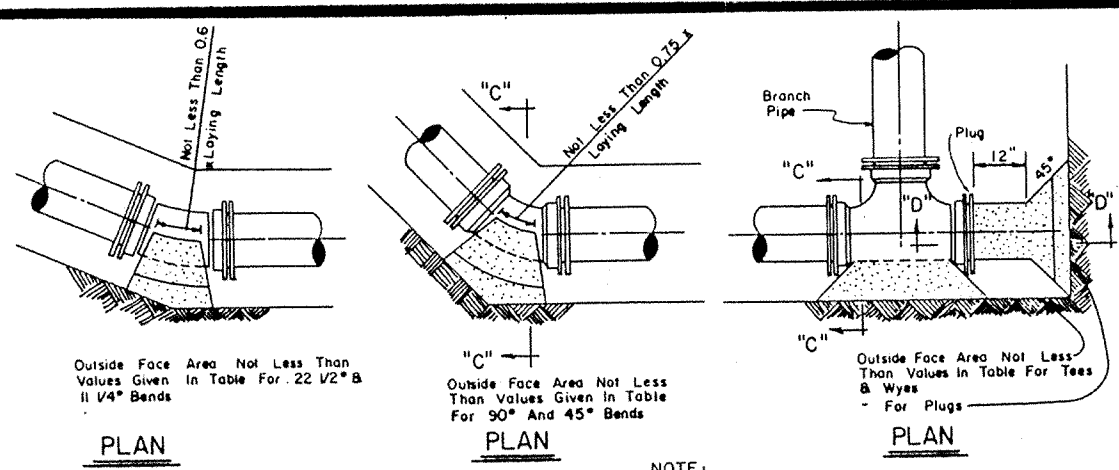
PROJECT: LARKSPUR (PHASE 2)  
 PREPARED FOR: THE KELLEY GROUP

TITLE: STORM SEWER PLAN

SCALE: AS NOTED

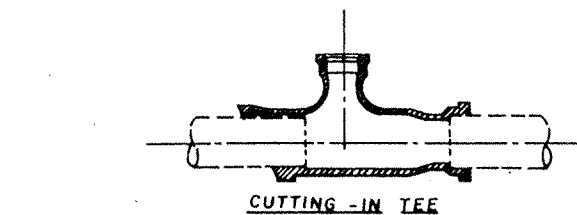
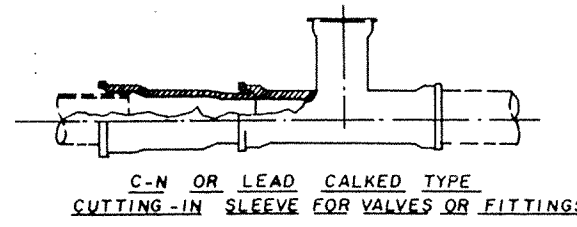
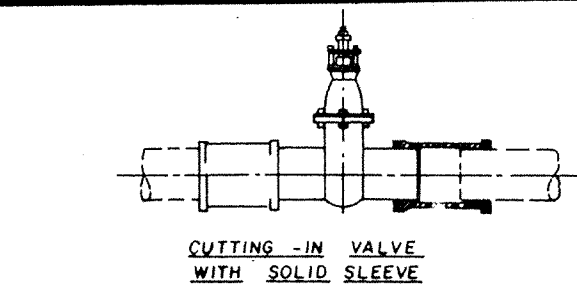
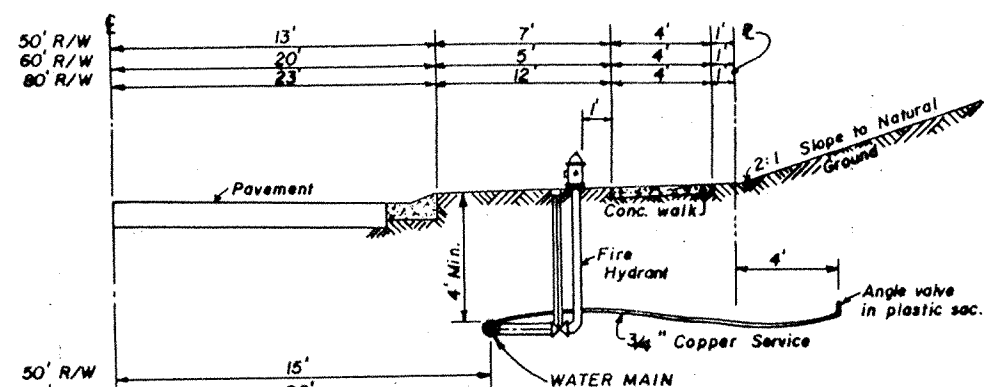
SHEET 5-10 OF 15



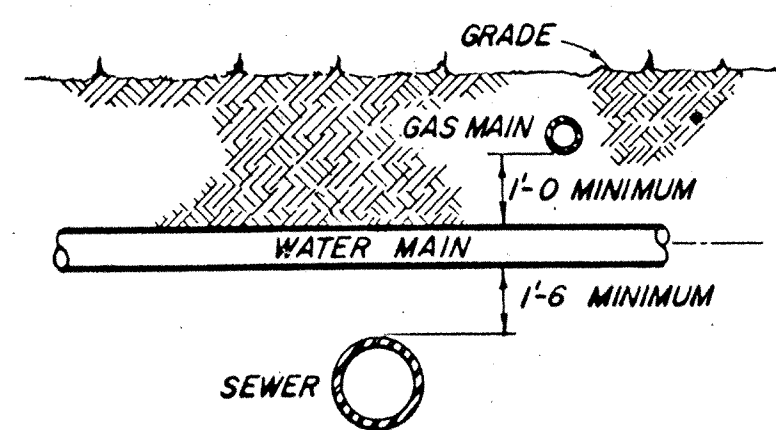
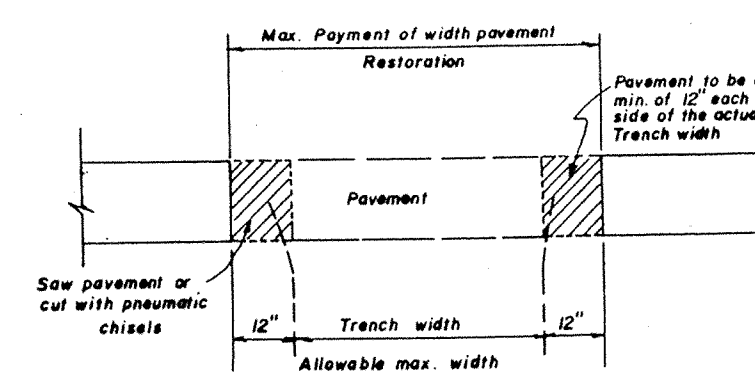
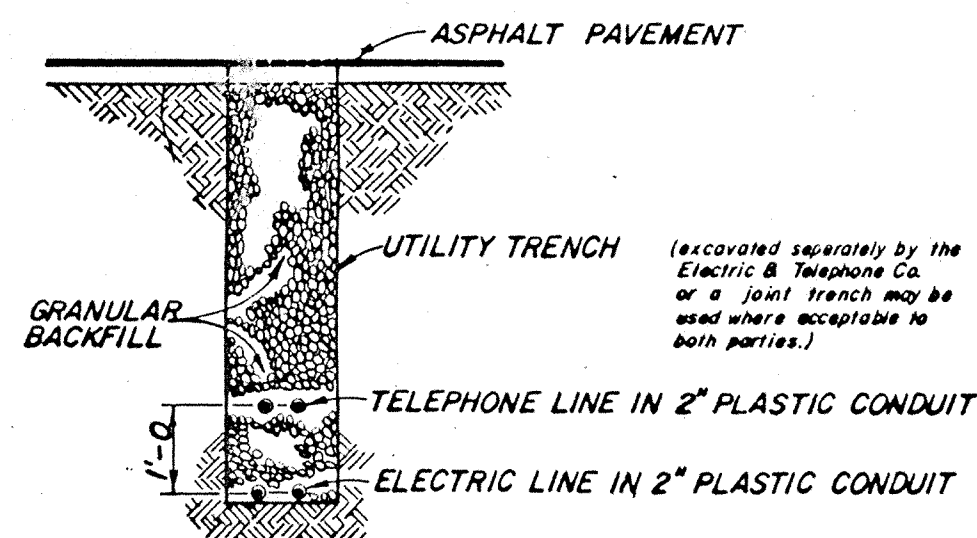
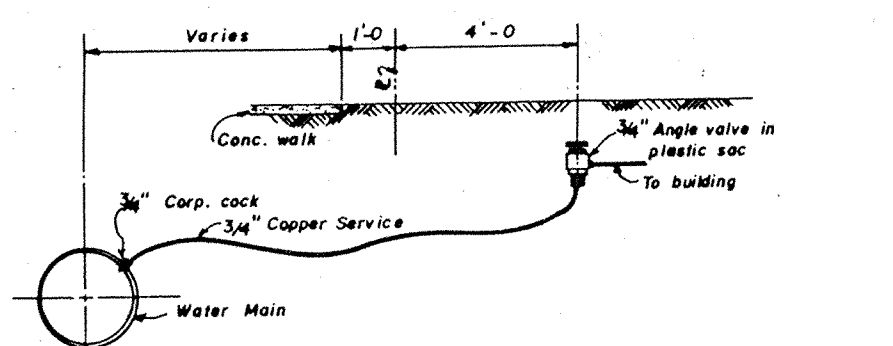
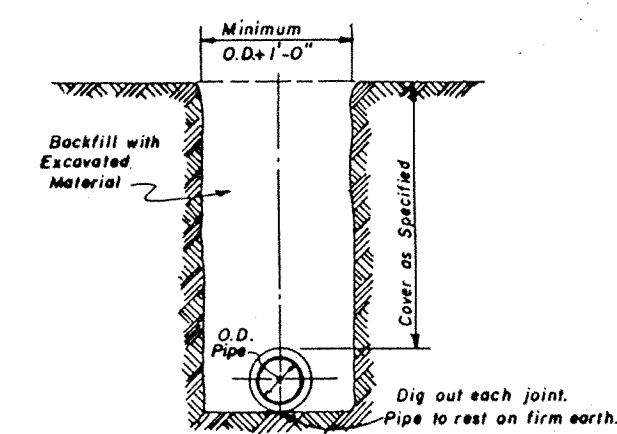
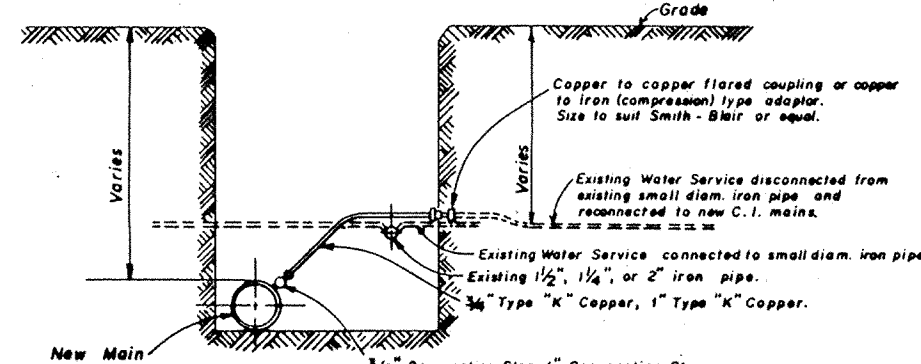


BLOCKING FOR PLUGS & BENDS				BLOCKING FOR TEES & WYES			
PIPE SIZE	PLUG	OUTSIDE FACE AREA (SQ. FT.)	SIZE OF OUTSIDE FACE	PIPE SIZE	TEE	WYE	SIZE OF OUTSIDE FACE
20"	16	25	14	7	4	20"	16
18"	12	16	9	5	3	OR	10
12"	7	9	5	3	2	OR	8
10"	4	7	4	2	1	OR	6
8"	3	5	3	2	1	OR	4
6"	2	3	2	1	1	OR	3
4"	2	3	2	1	1	OR	2

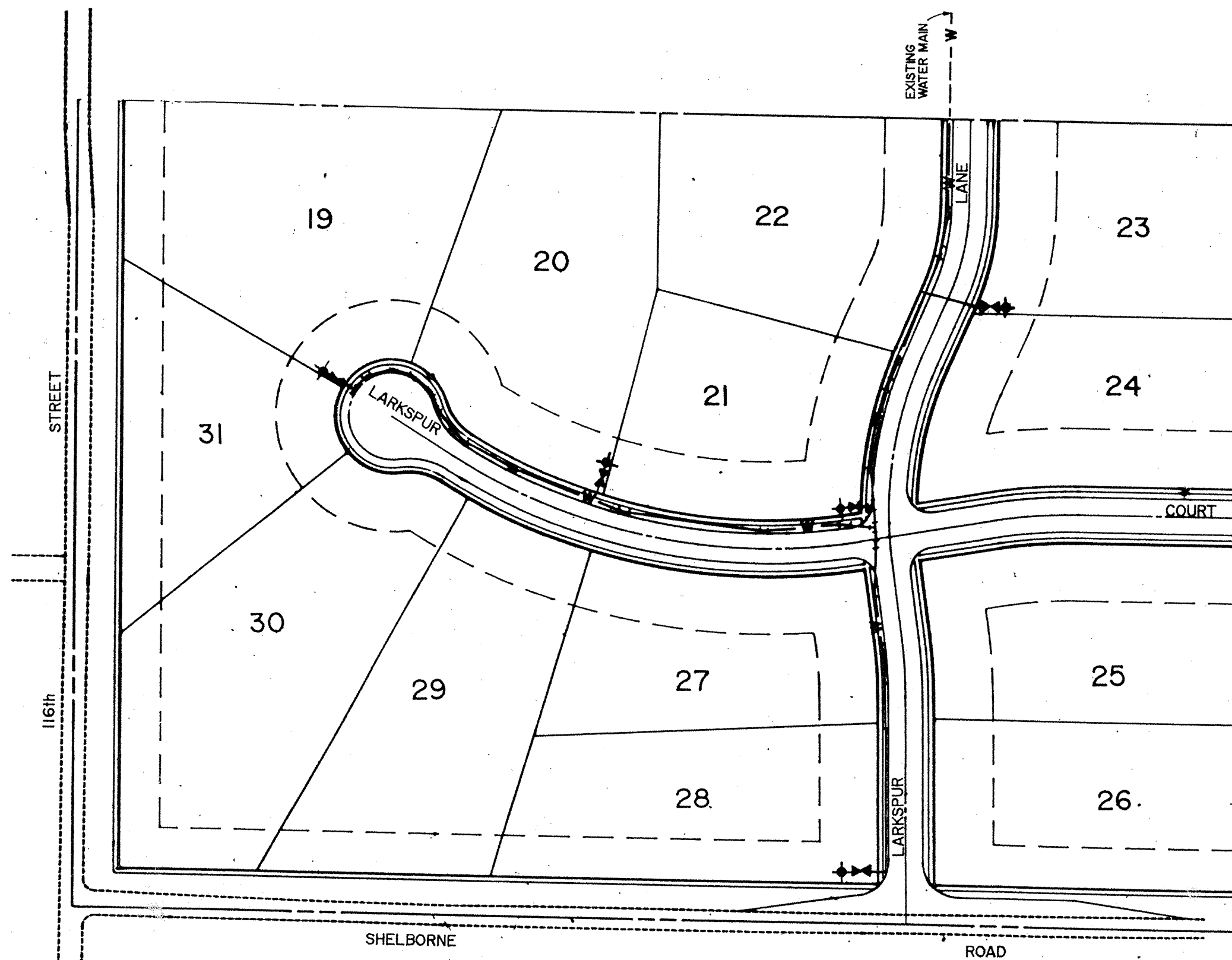
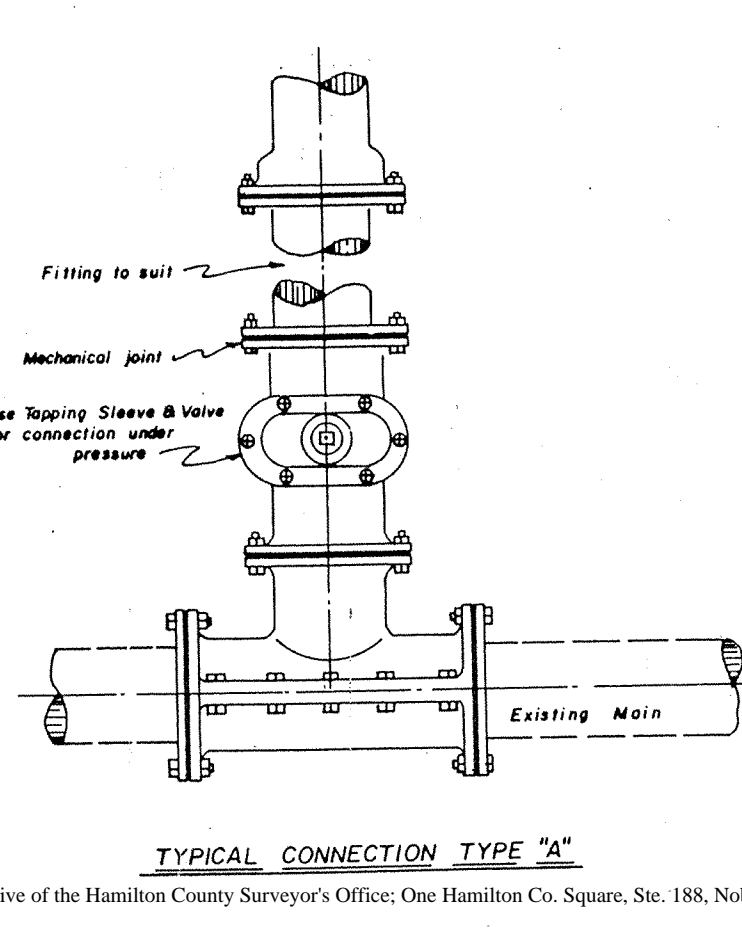
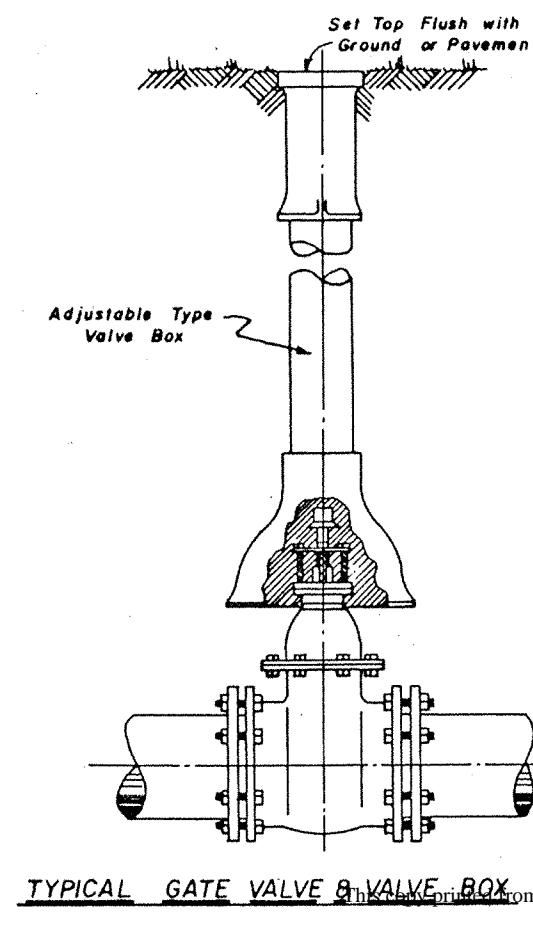
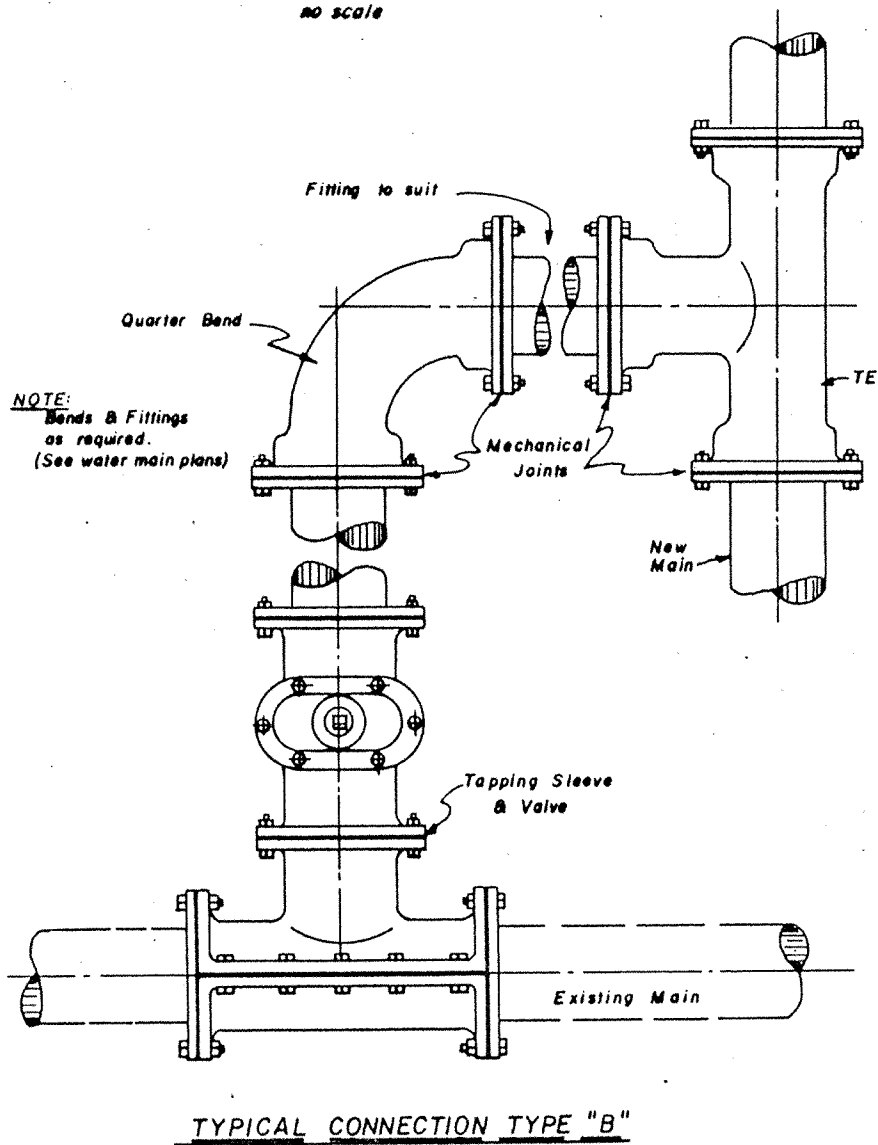
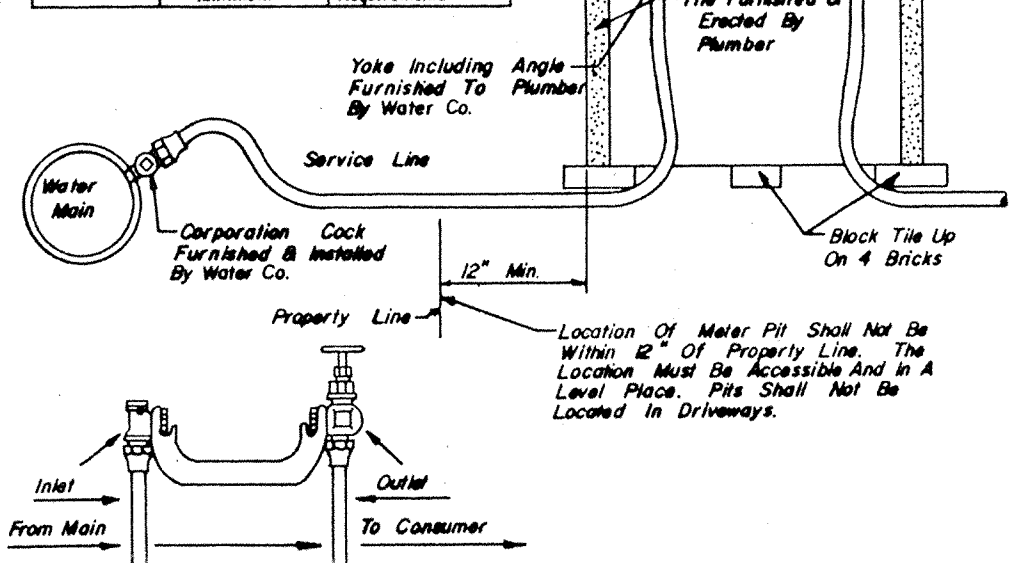
DETAIL - CONCRETE BLOCKING



OPTIONAL METHODS OF CUTTING IN NEW VALVES AND FITTINGS IN EXISTING MAINS



ITEM	IN 3/4" METERS	1" METER
METER	Four Meter Box Co. Type "X" 1/2" Single Lid Cover For 20" Meter, 6" Depth & 11 1/2" Dia. 112	Four Meter Box Co. Type "X" 1/2" Single Lid Cover For 20" Meter, 6" Depth & 11 1/2" Dia. 112
PIT COVERS	8" Cast Iron City Or Concrete Tile	8" Cast Iron City Or Concrete Tile
YOKE	Four Meter Box Co. 1/2" Yoke For 1" Rise For 3/4" Meter	Four Meter Box Co. 1/2" Yoke For 1" Rise For 1" Meter
VALVES	Four Meter Box Co. Angle & Compression Valves For Copper Fittings	Four Meter Box Co. Angle & Compression Valves For Copper Fittings
RISER SIZE	1/2" For 3/4" Meter	1" For 1" Meter
SERVICE LINE SIZE	1/2" For 3/4" Meter	1" For 1" Meter



NOTE: WATER MAIN TO BE SIZED BY INDIANAPOLIS WATER CO.

LEGEND  
 --- W --- EXISTING WATER LINE  
 - - - W - - - NEW WATER LINE W/VALVE  
 \* \* \* \* \* FIRE HYDRANT  
 (S) NEW STORM SEWER W/ INLET

FILED  
 APR 23 1996  
 OFFICE OF HAMILTON COUNTY SURVEYOR

REVISIONS

NO.	DATE	CHECKED BY	DATE	CHECKED BY

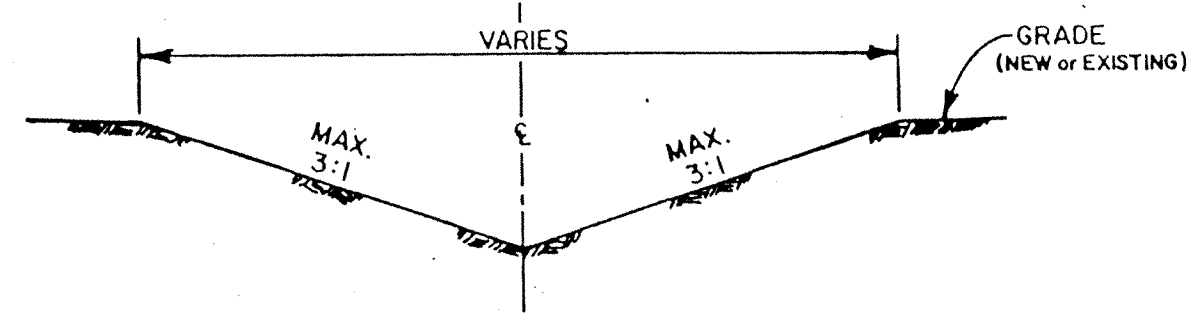
DRAWN BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

PROJECT: LARKSPUR (PHASE 2)  
 PREPARED FOR: THE KELLEY GROUP  
 TITLE: WATER DISTRIBUTION SYSTEM

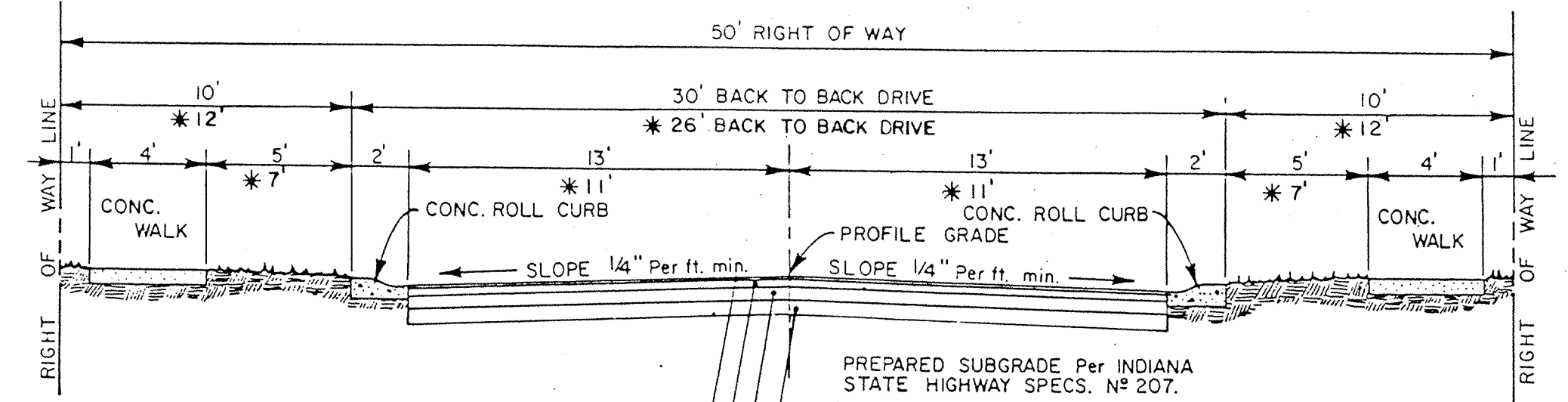
SCALE: as noted

SCHNEIDER ENGINEERING CORPORATION  
 3800 NORTH POST ROAD  
 INDIANAPOLIS, INDIANA 46206-6115  
 (317) 898-8282  
 P.O. BOX 26088  
 CIVIL ENGINEERS  
 LAND SURVEYORS

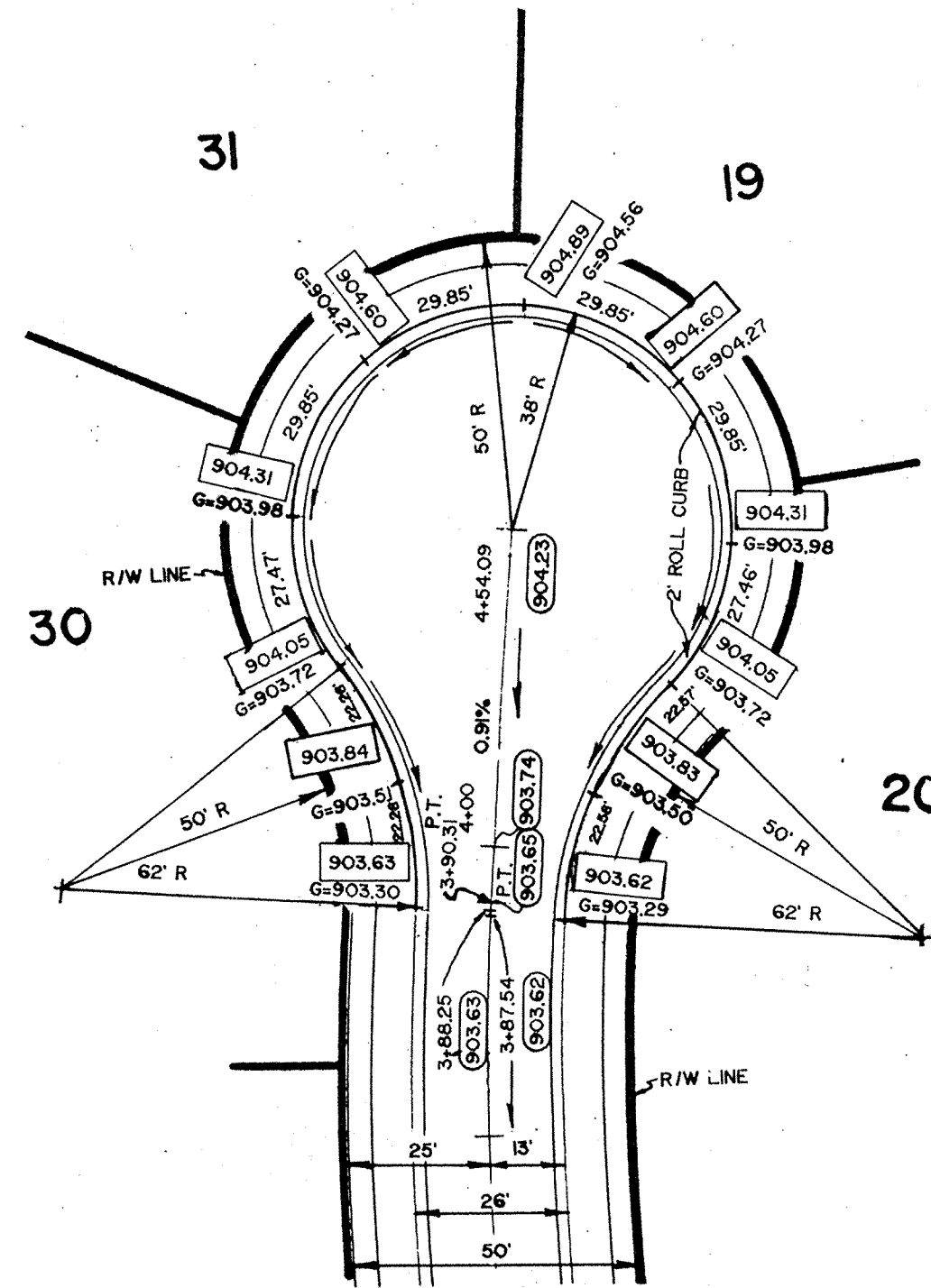
SHEET OF S-11  
 15



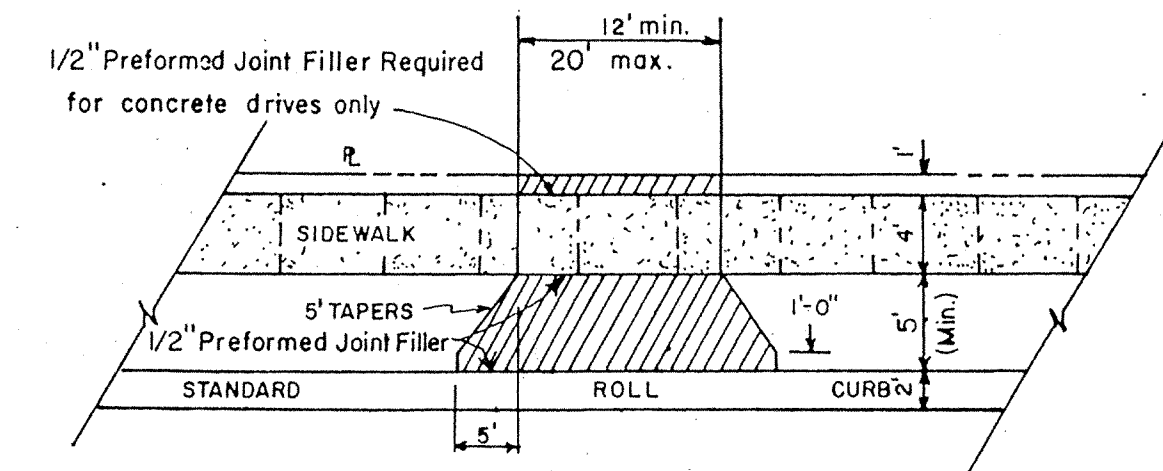
TYPICAL SWALE SECTION 5 S-12



TYPICAL STREET SECTION DETAIL 1 S-12

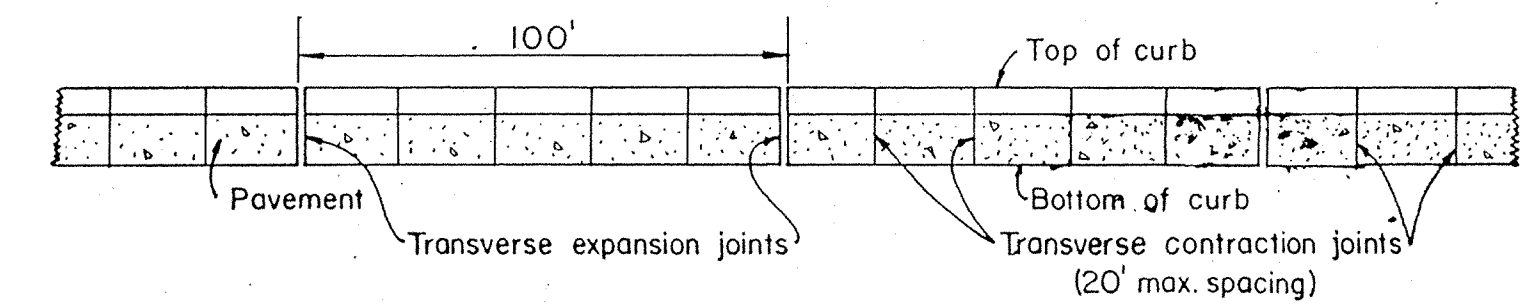


LARKSPUR COURT CUL-DE-SAC DETAIL 6 S-12

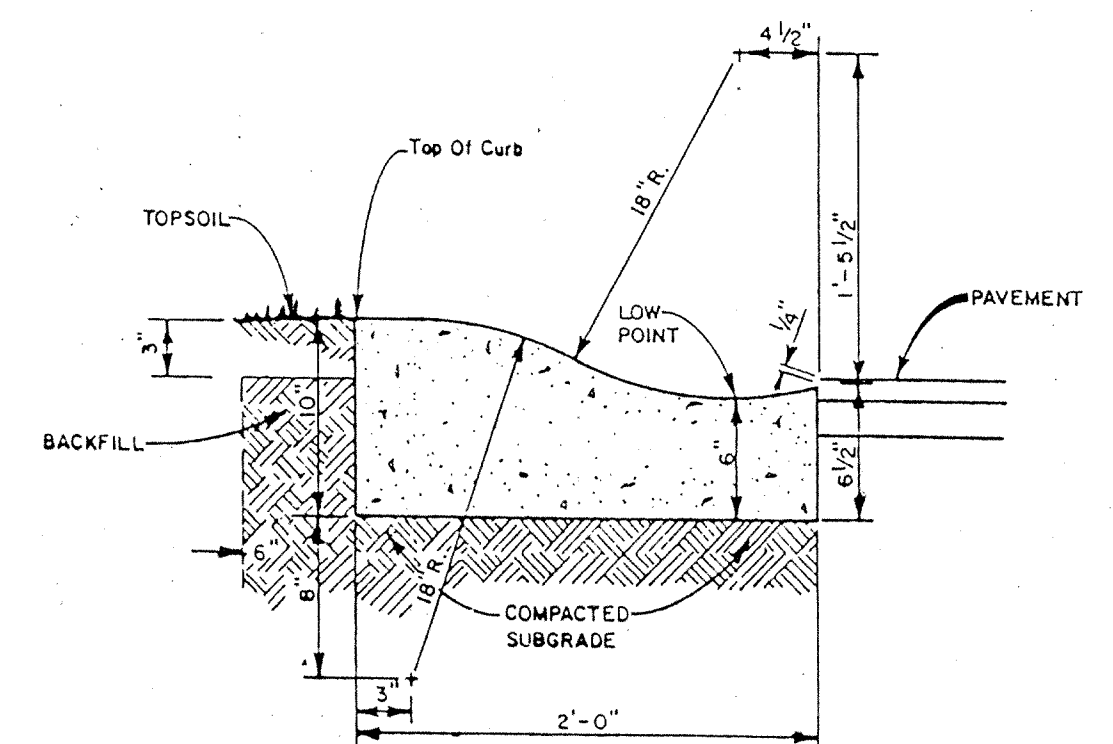


PRIVATE DRIVEWAY DETAIL 2 S-12

- GENERAL NOTES:**
- Cross-hatched areas shall be either 6" plain concrete or 1" bituminous surface on 2" bituminous base on 4" type "P" compacted aggregate base or 1" bituminous surface on 4" bituminous coated aggregate base with 53B stone, extending to the sidewalk or R/W Line whichever is nearest to the roadway.
  - Subgrade under all curbs, sidewalk, & drives shall be compacted in accordance with section 207.02 of Indiana State Highway Department Standard Specifications.
  - Sidewalks shall be constructed in accordance with the appropriate standard and shall be continuous across the driveway.



CURB JOINT DETAIL 3 S-12



2' CONCRETE ROLL CURB & GUTTER 4 S-12

**FILED**  
APR 23 1996  
OFFICE OF HAMILTON COUNTY SURVEYOR

NO.	DATE	CHECKED BY	DATE	CHECKED BY

PROJECT: LARKSPUR (PHASE 2)  
PREPARED FOR: THE KELLEY GROUP  
TITLE: GENERAL DETAILS

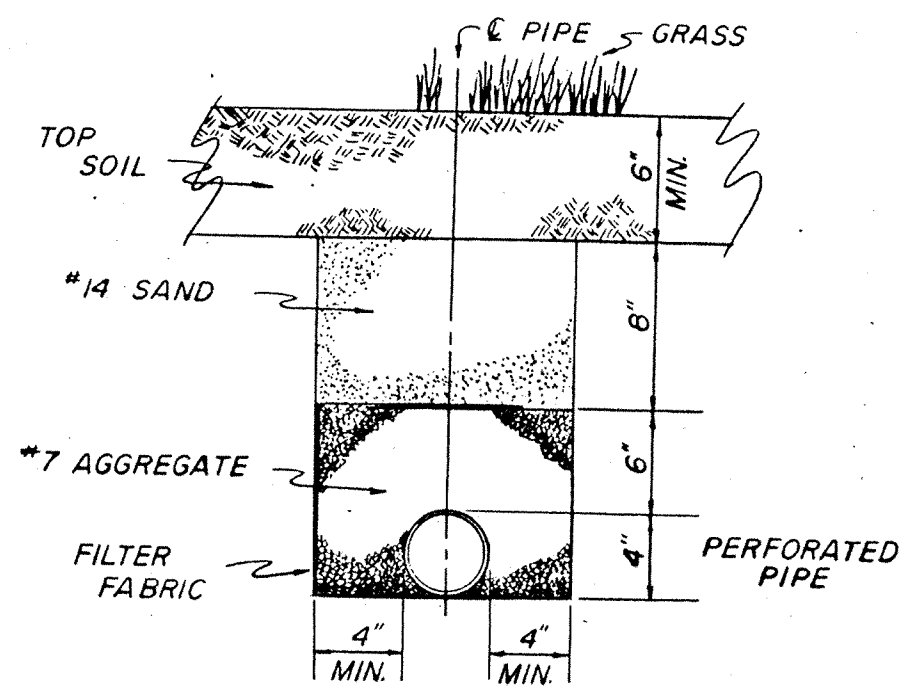
PROJECT NO. 657.02  
JOB NO. 657.02  
SCALE: N/A

PROJECT: LARKSPUR (PHASE 2)  
PREPARED FOR: THE KELLEY GROUP  
TITLE: GENERAL DETAILS

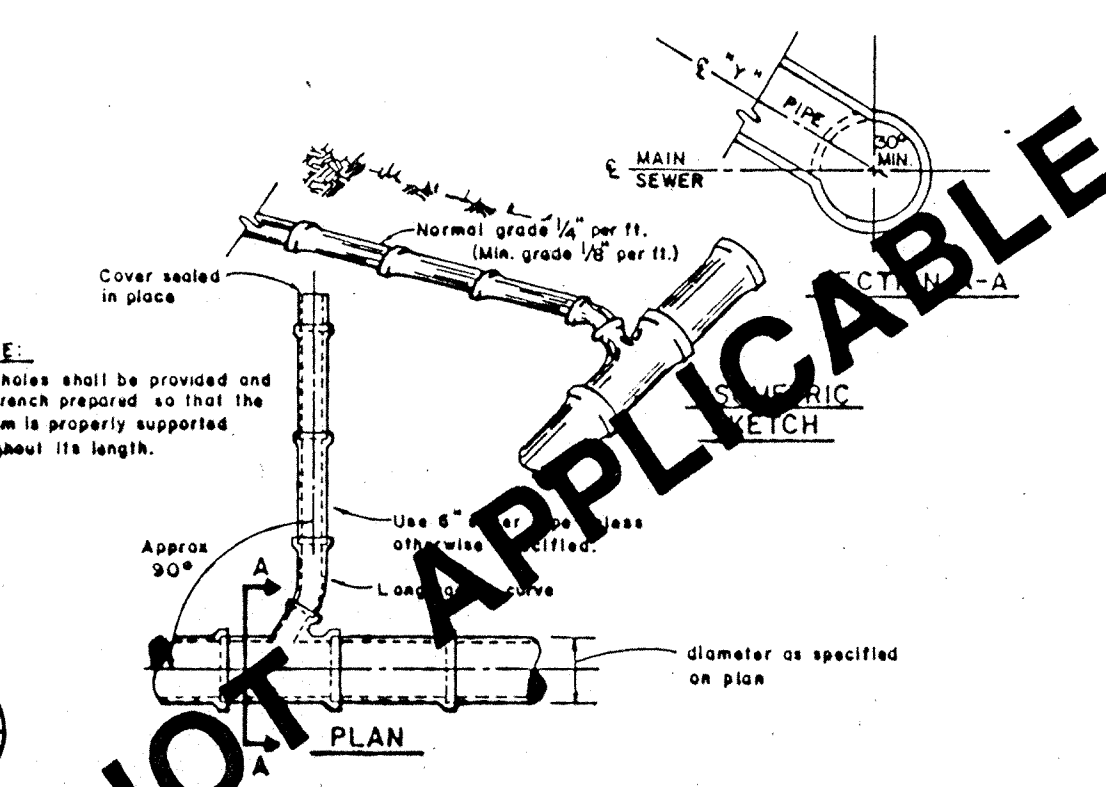
PROJECT: LARKSPUR (PHASE 2)  
PREPARED FOR: THE KELLEY GROUP  
TITLE: GENERAL DETAILS

SHEET OF 6-12  
15

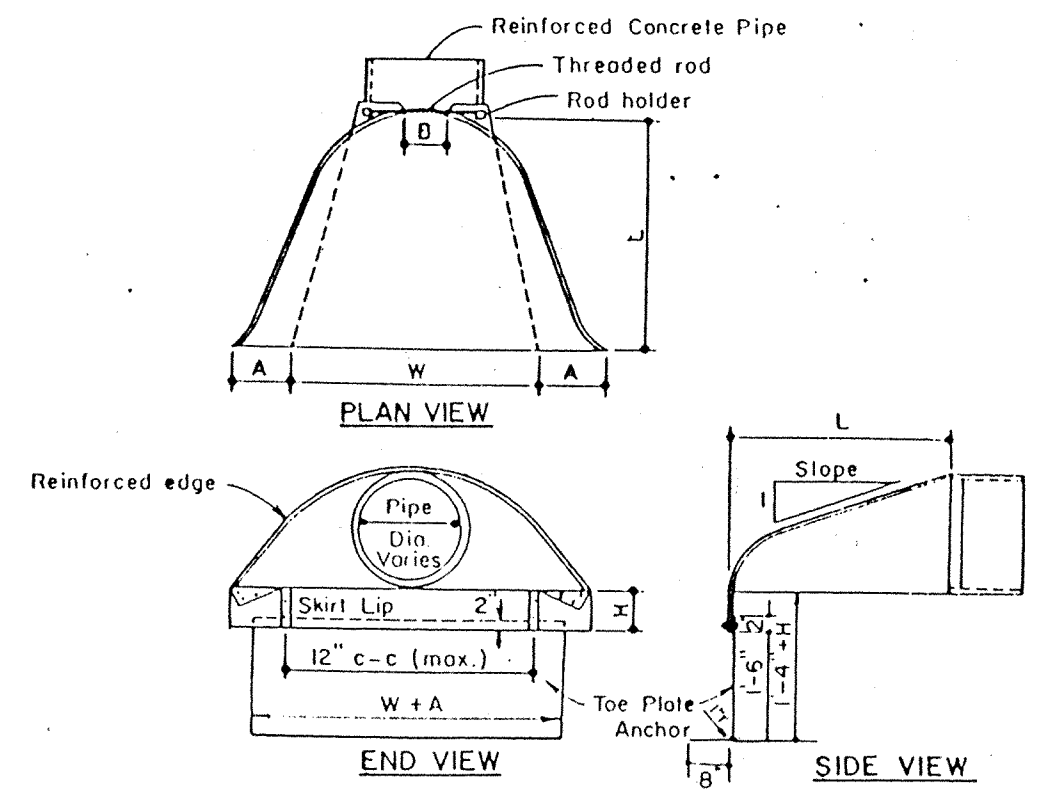




**TYPICAL SUBSURFACE DRAIN** 12 S-13  
 SUBSURFACE DRAIN: For specifications, see Indiana Highway Standard Specifications, Sec. 716.01, 716.02, 716.03 and 716.04.  
 FILTER FABRIC: Use Dupont "Typan", Mobtec "Terratec SD" or equal.



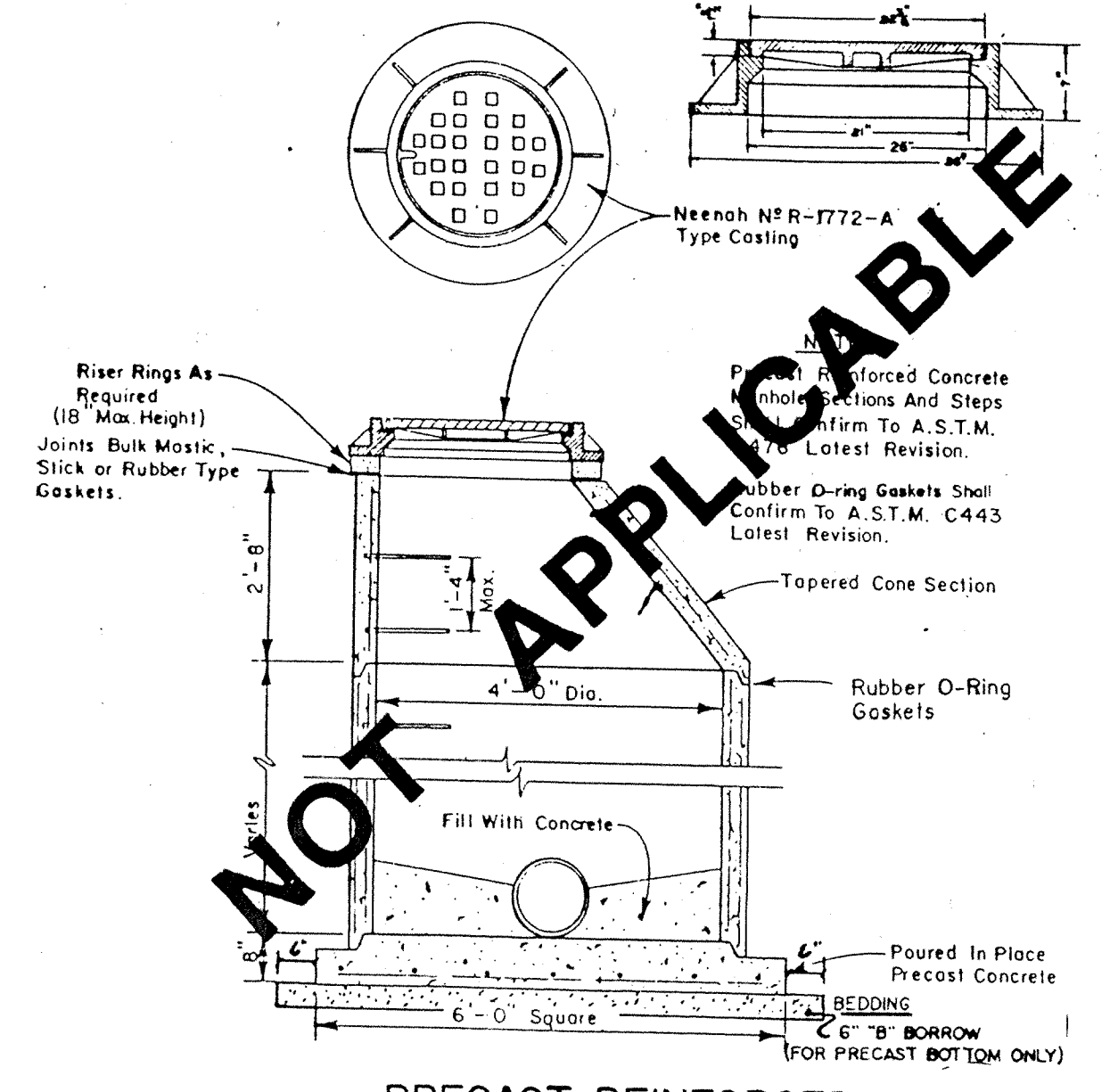
**PIPE CONNECTION TO MAIN SEWER** 7 S-13



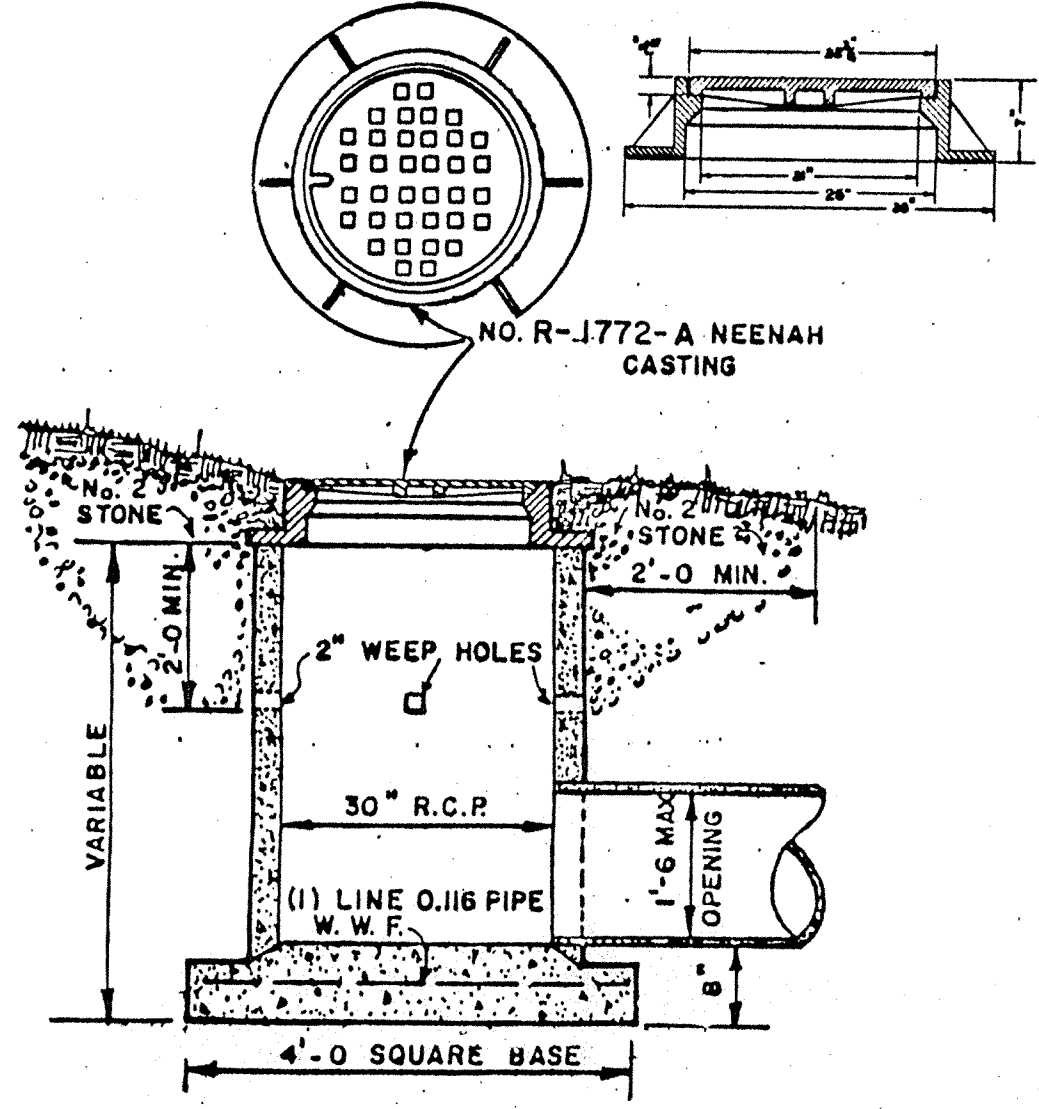
**DIMENSIONS OF GALVANIZED STEEL END SECTIONS FOR ROUND PIPE**

TYPE OF PIPE	PIPE DIA. IN INCHES	GAGE	A	B	C	D	E	F	W	APPROX. SLOPE
R.C.P.	12	.063	7	8	6	26	30	2 1/2		
R.C.P.	15	.063	8	10	6	31	36	2 1/2		
R.C.P.	18	.063	9	12	6	36	42	2 1/2		
R.C.P.	21	.063	10	13	6	41	48	2 1/2		
R.C.P.	24	.079	12	16	8	51	60	2 1/2		
R.C.P.	30	.079	14	19	9	60	72	2 1/2		
R.C.P.	36	.099	16	22	11	69	84	2 1/2		
R.C.P.	42	.099	18	30	12	78	90	2 1/4		
R.C.P.	48	.099	18	30	12	84	102	2		
R.C.P.	54	.099	18	33	12	87	114	1 3/4		

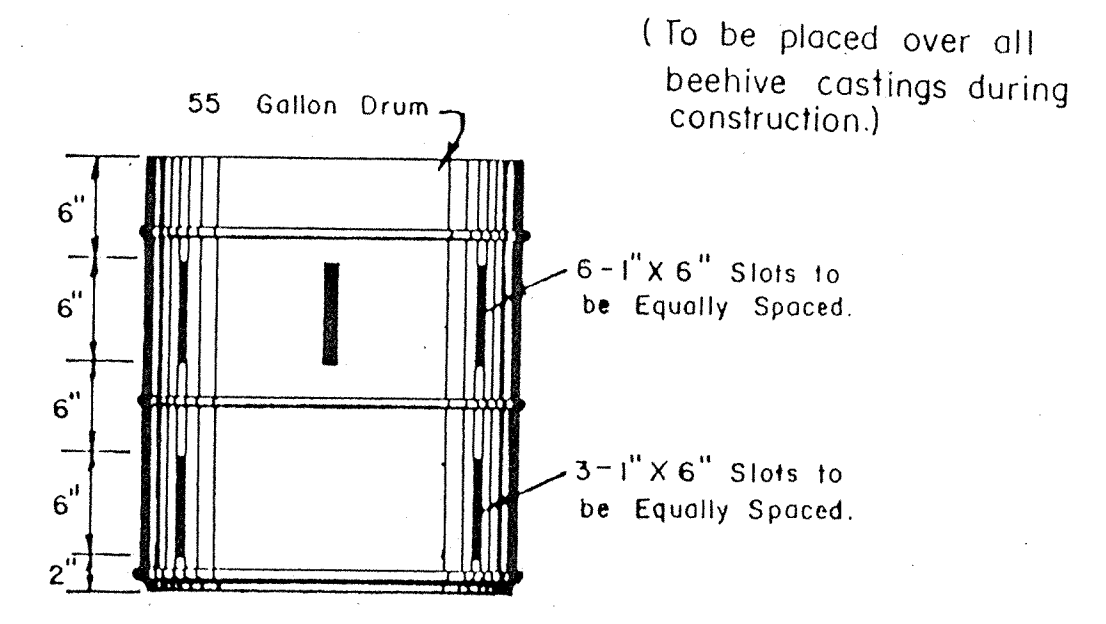
NOTE: For Corrugated Metal Pipe use next smaller diameter end section.



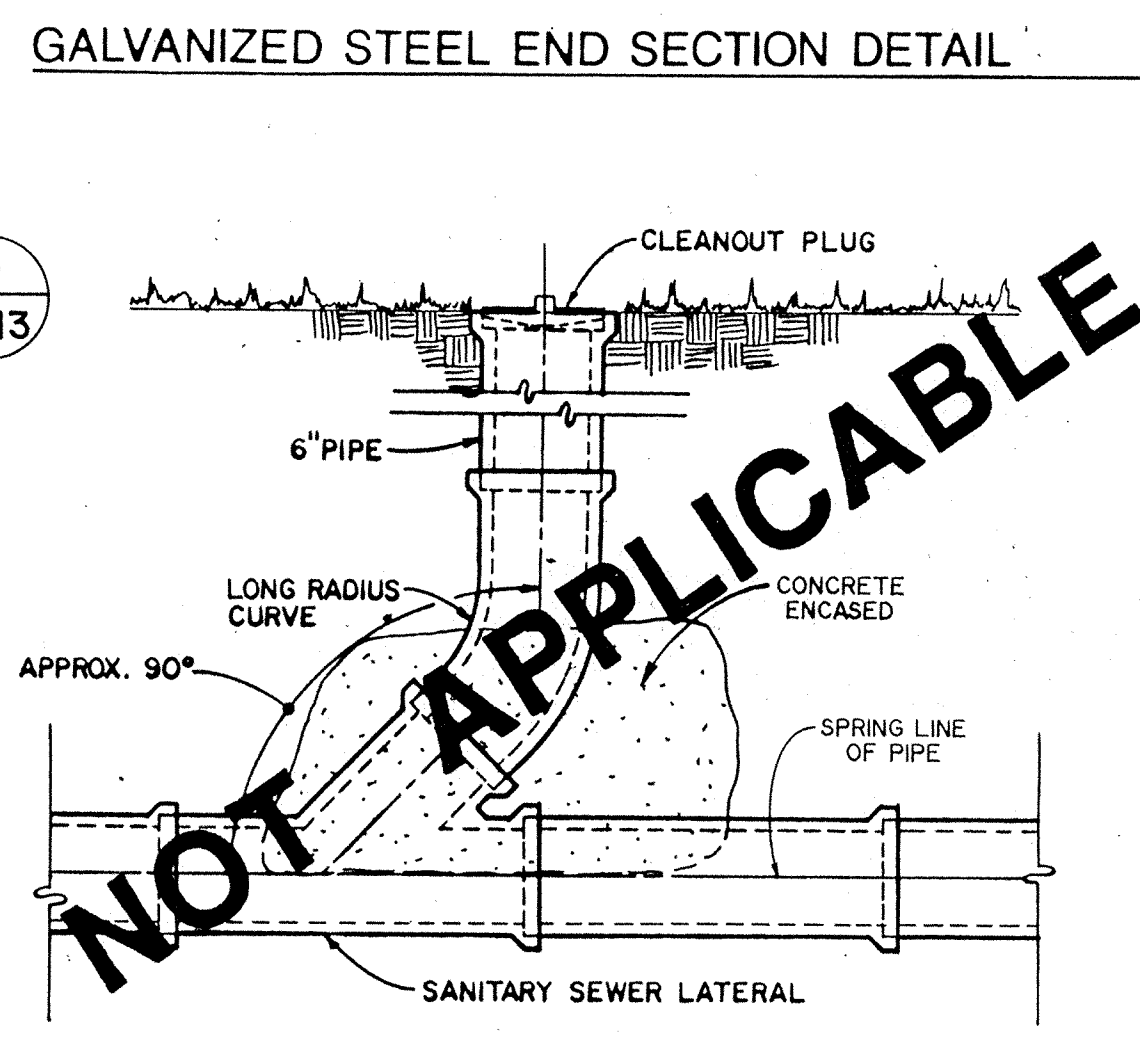
**PRECAST REINFORCED CONCRETE MANHOLE** 1 S-13



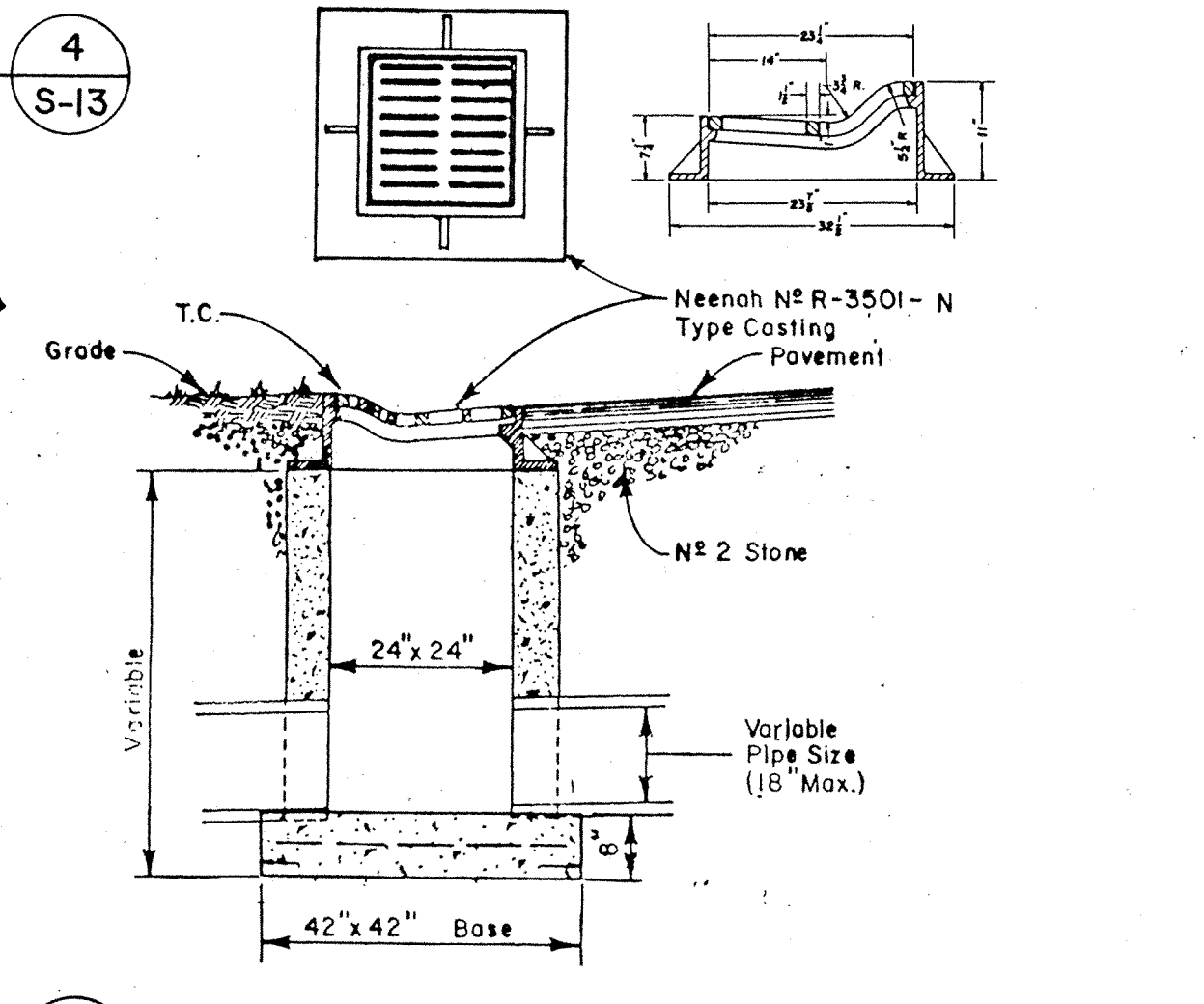
**STORM MANHOLE DETAIL** 13 S-13



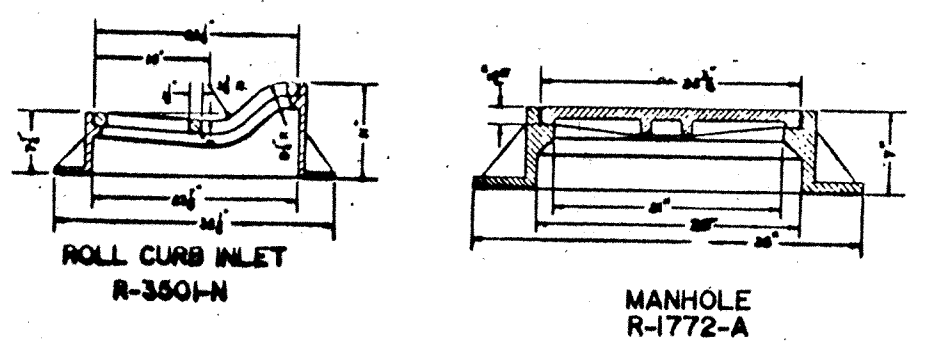
**SLOTTED RISER FOR SEDIMENT RETENTION** 8 S-13



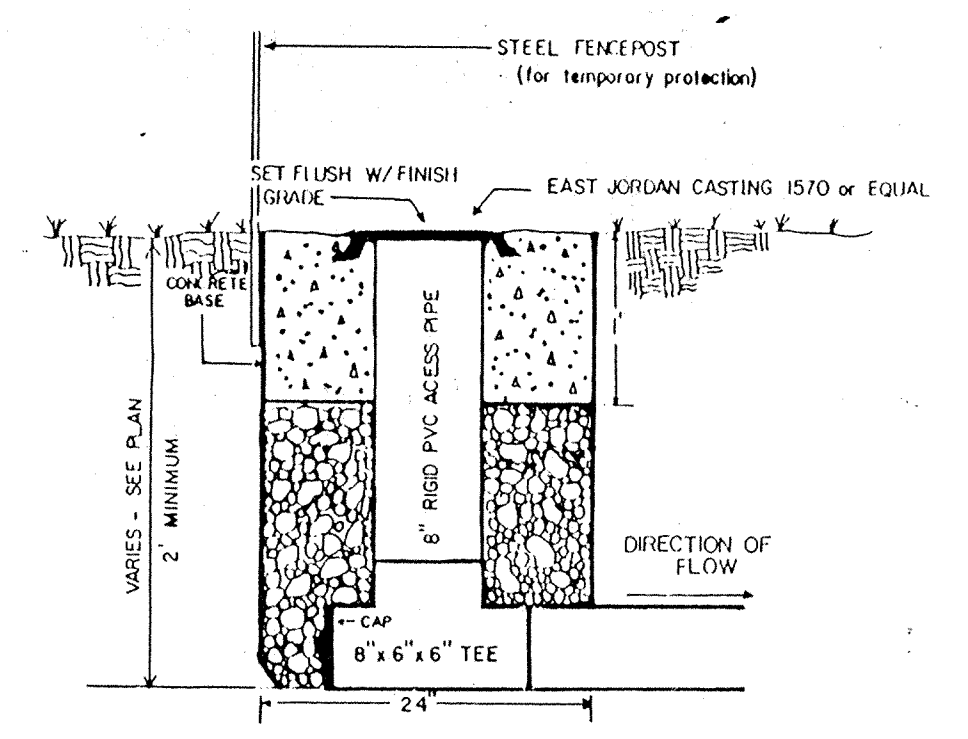
**SANITARY SEWER CLEANOUT DETAIL** 5 S-13



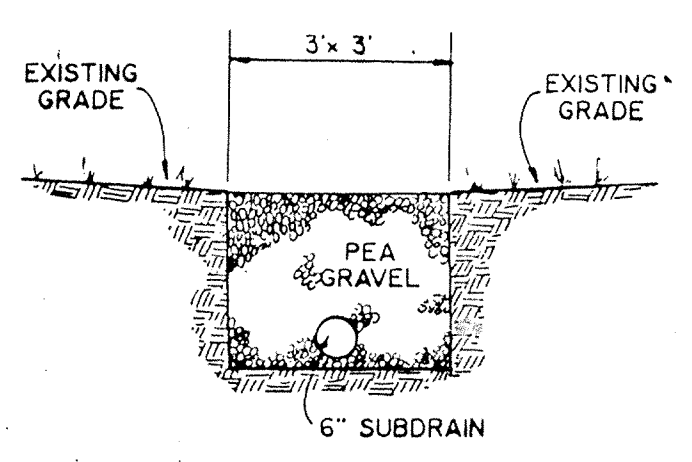
**ROLL CURB INLET DETAIL** 2 S-13



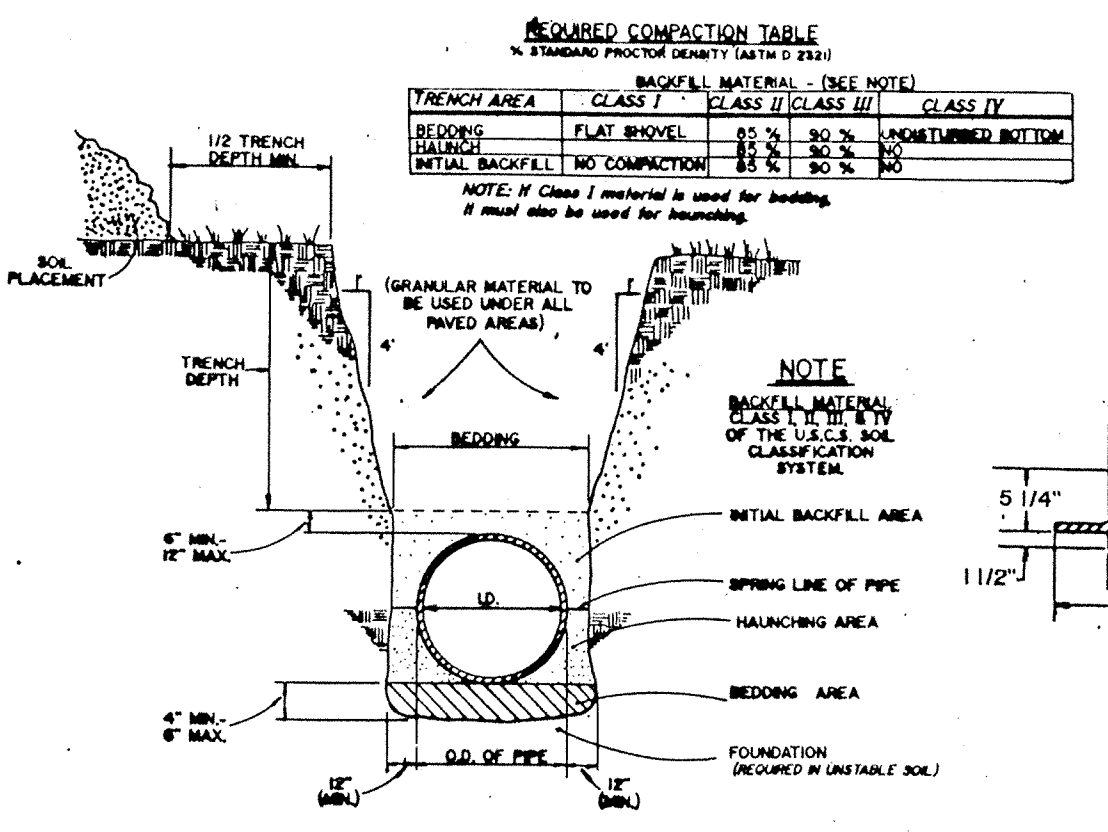
**ROLL CURB INLET R-3501-N** and **MANHOLE R-1772-A**



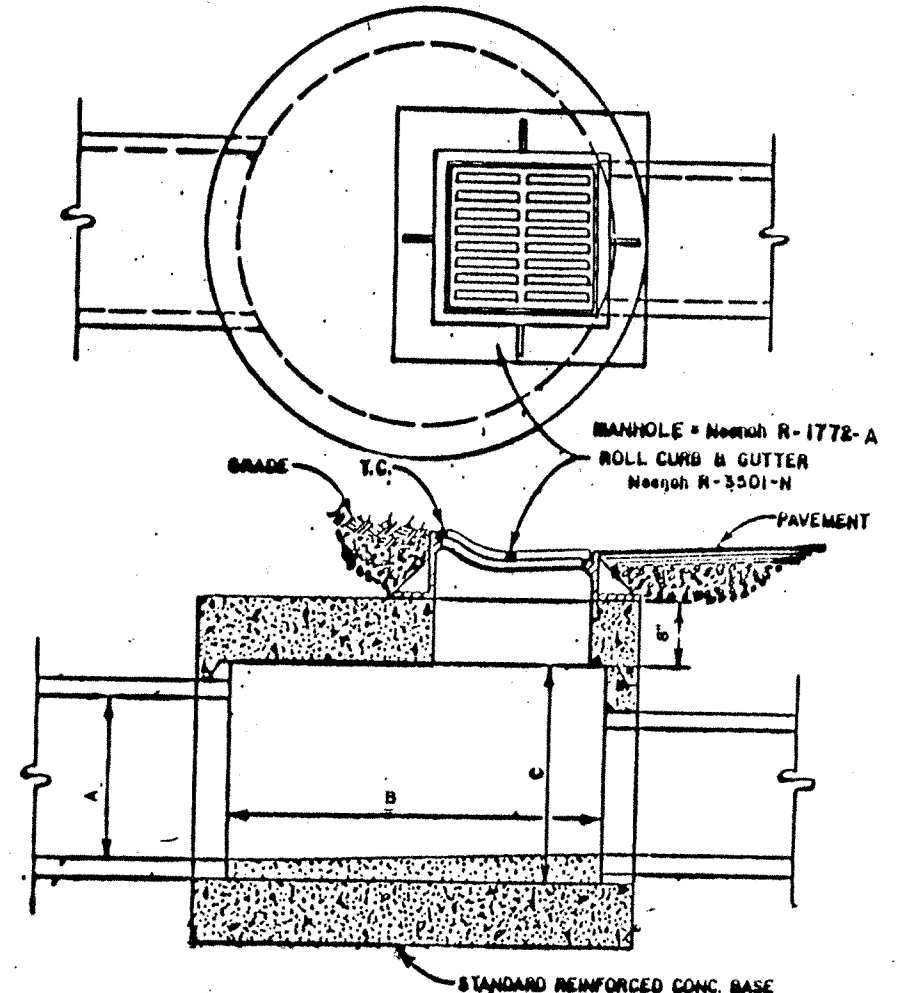
**SUBSURFACE DRAIN (SSD) RISER DETAIL** 9 S-13



**PEA GRAVEL PIT FOR LOW FLOW DRAINAGE** 10 S-13

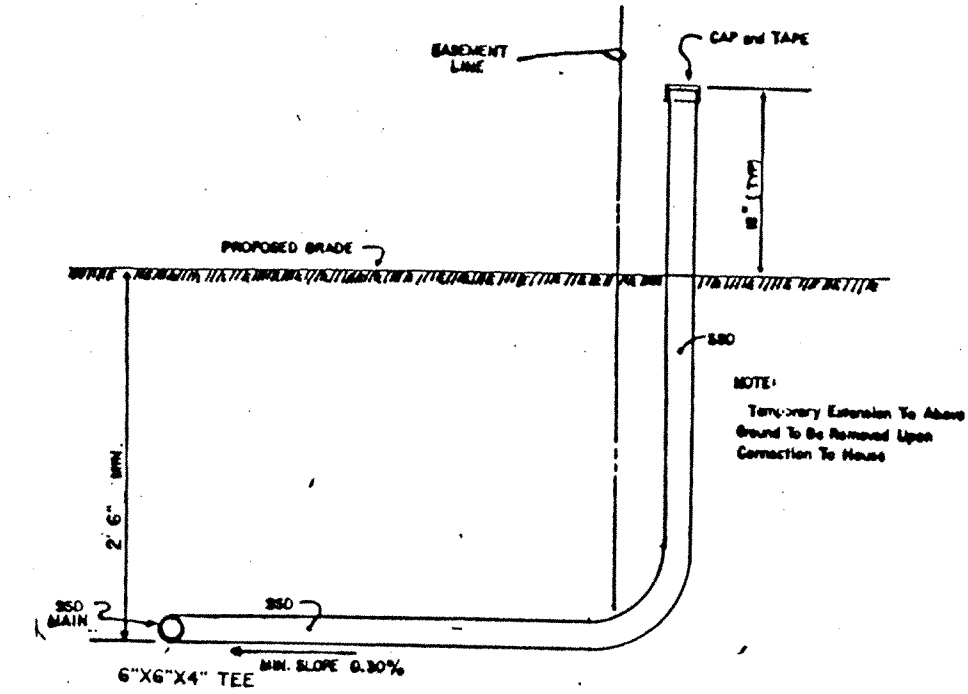


**TRENCH & BEDDING DETAIL** 6 S-13

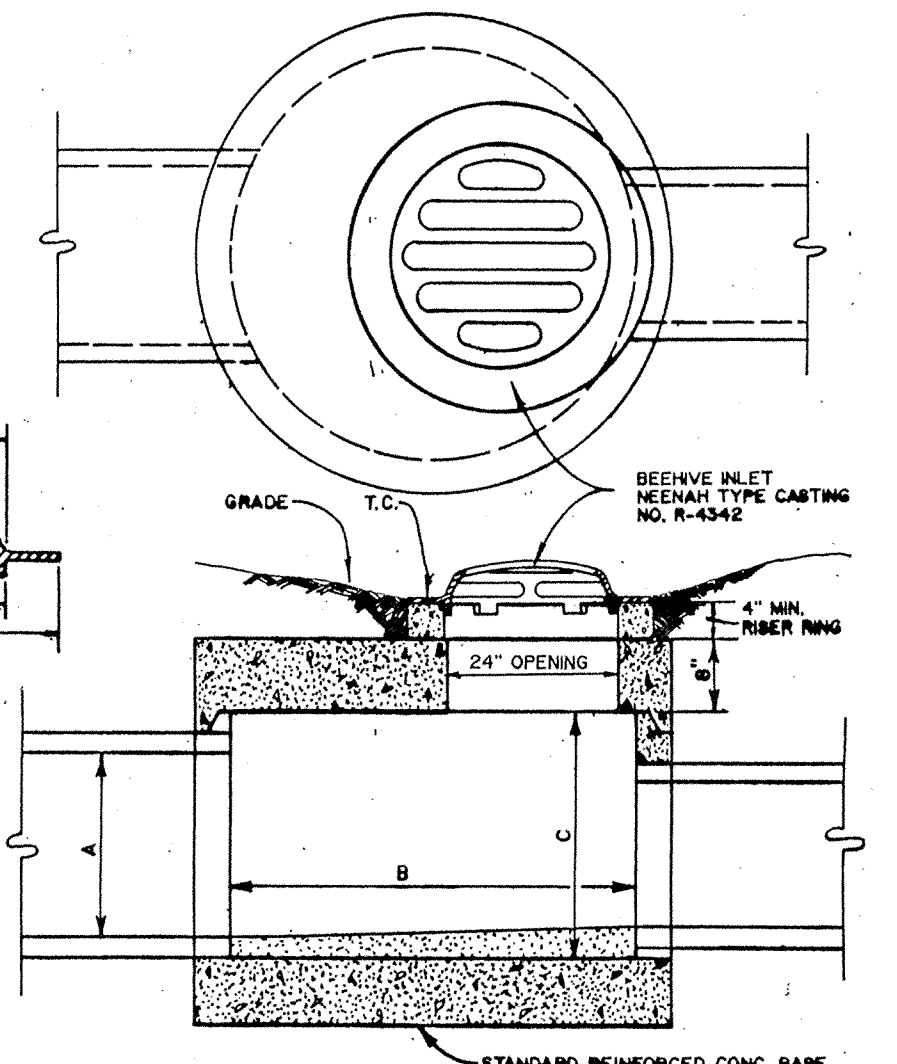


STRUCTURE NUMBER	INLET	OUTLET	MANHOLE	ROLL CURB/INLET
21	48	28		
24	48	31		
27	60	34		
30	60	36		
33	60	41		
36	60	44		

**SPECIAL STORM STRUCTURE DETAIL** 14 S-13



**TYPICAL SSD CONNECTION TO INDIVIDUAL LOTS** 11 S-13



**BEHIVE INLET DETAIL** 3 S-13

DIMENSIONS (INCHES)	STRUCTURE NUMBER
12 36 18	STR. # 207 & 208
15 36 21	
18 48 25	
21 48 28	
24 48 31	STR. # 212, 213 & 214
27 60 34	
30 60 38	
33 60 41	
36 60 44	

**REVISIONS**

NO.	DATE	CHECKED BY	DATE	CHECKED BY

**PROJECT:** LARKSPUR (PHASE 2)  
**PREPARED FOR:** THE KELLEY GROUP  
**GENERAL DETAILS**

**JOB NO.:** 657.02  
**SCALE:** N/A

**SCHNEIDER ENGINEERING CORPORATION**  
 3005 NORTH POST ROAD  
 INDIANAPOLIS, INDIANA 46226-6518  
 (317) 898-8282  
 P.O. BOX 26068  
 CERTIFIED civil engineers and land surveyors

**FILE**  
 APR 23 1996  
 OFFICE OF HAMILTON COUNTY SURVEYOR

**SHEET** 15  
 of S-13



EARTHWORK

- 1. SCOPE OF WORK:
A. Extent: The work required under this section consists of all excavating, filling, rough grading and related items necessary to complete the work indicated on the drawings and described in the specifications.
1. In general the items of work to be performed under this section shall include: clearing and grubbing, removal of trees and stumps (where required), protection of trees to remain, stripping and storage of topsoil, fill composition and rough grading of entire site as indicated on the drawings.
2. Excavated material that is suitable may be used for fills. All unsuitable material and all surplus excavated material not required shall be removed from the site. The location of dump and length of haul shall be the Contractor's responsibility.
3. Provide and place any additional fill material from off the site as may be necessary to produce the grades required. Fill obtained from off site shall be of kind and quality as specified for fills herein and the source approved by the Owner.
4. The Contractor shall accept the site as he finds it and shall remove all trash, rubbish and debris from the site prior to starting excavation.
B. Work not included: The following items of related work are specified and included in other sections of these specifications:
1. Excavation, grading and backfilling for utility lines.
2. Storm drainage systems.
3. Sanitary sewer systems.
4. Water supply systems.
5. Streets and paving.
C. ENCUMBRANCES:
Maintain carefully all bench marks, monuments and other reference points; if disturbed or destroyed, replace as directed by engineer.
D. REMOVAL OF TREES:
1. Remove all trees and stumps from area to be occupied by road and surfaced areas. Removal of trees outside these areas shall only be done as noted on drawings or approved by the Owner.
2. All brush, stumps, wood and other refuse from the trees shall be buried onsite or burned with proper permits (where applicable).
E. PROTECTION OF TREES:
A. General Protection: The Contractor shall be responsible for the protection of tops, trunks and roots of existing trees on the project site that are to remain. Existing trees subject to construction damage shall be boxed, fenced or otherwise protected before any work is started; do not stockpile within branch spread. Remove interfering branches without injury to trunks and cover square with tree paint.
F. STRIPPING OF TOPSOIL:
1. Remove topsoil to a depth of 6 inches (or more if required) from the areas to be occupied by roads, walks, buildings, and parking areas. Pile and store topsoil at a location where it will not interfere with construction operations. Top soil shall be reasonably free from subsoil, debris and stones.
G. DISPOSITION OF UTILITIES:
1. Rules and regulations governing the respective utilities shall be observed in executing all work under this section.
2. It shall be the responsibility of each contractor to verify all existing utilities and conditions pertaining to his phase of the work. It shall also be the contractor's responsibility to contact the owners of the various utilities before work is started. The contractor shall notify in writing the owners of the engineers of any changes, errors or omissions found on these plans or in the field before work is started or resumed.
3. Where active utilities are encountered but not shown on the drawings, the Engineer shall be advised before work is continued.
4. Inactive and abandoned utilities encountered in excavating and grading operations shall be reported to the Engineer. They shall be removed, plugged or capped as directed by the Engineer.
H. SITE GRADING:
1. Grades: Do all cutting, filling, compacting of fills and rough grading required to bring entire project area to subgrade as shown on the drawings.
2. Rough Grading: The tolerance for paved areas shall not exceed 0.10 feet above established subgrade. All other areas shall not exceed 0.10 feet plus or minus the established grade. Provide roundings at top and bottom of banks and other breaks in grade.

STORM SEWER SYSTEMS

- 1. SCOPE OF WORK:
The work under this section includes all storm sewers, storm water inlets, and related items, including excavating and backfilling, necessary to complete the work shown on the drawings.
2. MATERIALS:
A. Storm Sewers:
1. Reinforced concrete sewer pipe shall conform to ASTM C-75 latest revision with joints conforming to ASTM C-443 latest revision.
B. Manholes:
1. Precast reinforced concrete manhole sections and steps shall conform to ASTM C-478 latest revision.
2. Castings shall be of uniform quality, free from blow holes, porosity, hard spots, shrinkage distortion or other defects. They shall be smooth and well-cleaned by shotblasting or by some other approved method. They shall be coated with special paint which shall result in a smooth coating, tough and tenacious when cold, not tacky or brittle. They shall be gray iron meeting ASTM A-48 latest revision.
3. Joints - manhole sections shall be jointed with rubber type gaskets. The rubber type gaskets shall meet ASTM C-443 latest revision.
C. SUBDRAINS:
1. Perforated plastic pipe subdrains shall conform to ASTM D 3034 SDR 35.
3. APPLICATION:
A. Permits and Codes: The intent of this section of the specifications is that the contractor's bid on the work covered herein shall be based upon the drawings and specifications but that the work shall comply with all applicable codes and regulations as amended by any law, ordinance, or regulation. Contractor shall furnish all bonds necessary to get permits for cuts and connections to existing sewers.
B. Local Standards: The term "Local Standards" as used herein means the standards of design and construction of the respective municipal department or utility company.
C. Existing Improvements: Maintain in operating condition all active utilities, sewers and other drains encountered in the sewer installation. Repair to the satisfaction of the owner any damage to existing active improvements.
D. Workmanship: To conform to all local, state and national codes and to be approved by all local and state agencies having jurisdiction.
E. Trenching: Lay all pipe in open trenches, except when the local authority gives written permission for tunneling. Open the trench sufficiently ahead of pipe-laying to reveal any obstructions. The width of the trench shall be the inside pipe diameter plus 24 inches for 12 inches above the pipe. Sheet and brace trenches as necessary to protect workmen and adjacent structures. All trenching to comply with Occupational Safety and Health Administration Standards. Keep trenches free from water while construction is in progress. Under no circumstances lay pipe or appurtenances in standing water. Conduct the discharge from trench dewatering to drains or natural drainage channels.
F. Special Supports: Whenever, in the opinion of the Engineer, the soil at or below the pipe grade is unsuitable for supporting sewers and appurtenances specified in this section, such special support, in addition to those shown or specified, shall be provided as the Engineer may direct, and the contract will be adjusted.
G. Backfilling: For a depth of at least 12 inches above the top of the pipe, backfill with earth or granular material free from large stones, rock fragments, roots or nod. Tamp this backfill thoroughly, taking care not to disturb the pipe. For the remaining trench depth, backfill with earth or granular material containing stones or rocks not larger than 4 inches. Backfill under walks, parking areas, driveways and street shall be granular material only - thoroughly compacted by approved methods. Trenches parallel to and within 10 feet of paved roadways shall be constructed the same.
H. Manhole Inverts: Construct manhole flow channels of concrete, sewer pipe or brick, smoothly finished and of semi-circular section conforming to the inside diameter of the connecting sewers. Make changes in size or grade gradually and changes in direction by true curves. Provide such channels for all connecting sewers at each manhole.
I. Subdrains: All subdrains onsite shall be of the size as shown and shall be placed as shown on the plans. They shall be constructed to the grades shown. All drains constructed offsite as part of the outlet drain will be located as shown.
J. Utilities: It shall be the responsibility of each contractor to verify all existing utilities and conditions pertaining to his phase of the work. It shall also be the contractor's responsibility to contact the owners of the various utilities before work is started. The contractor shall notify in writing the owners or the engineer of any changes, errors or omissions found on these plans or in the field before work is started or resumed.

STREETS

- 1. SCOPE OF WORK:
The work required under this section includes all concrete and bituminous paving and related items necessary to complete the work indicated on drawings and described in the specifications, including but not limited to:
All streets, parking areas in contract limits
Curbs and gutters
Sidewalks and concrete slabs, exterior steps
2. MATERIALS:
A. Concrete: Concrete shall be ready-mixed concrete and shall be a mix of proportioned fine and coarse aggregates with Portland cement and water. Minimum cement content shall be 4 bags per cubic yard of concrete and maximum water content shall be 5.5 U.S. gallons per sack of cement, including moisture in the aggregate. Slump for normal weight concrete shall be a maximum of 4 inches and a minimum of 2 inches. The slump of machine placed concrete shall be no less than 1-1/4 inches nor more than 3 inches. Standard test ASTM C-143 shall be used to measure slump. Compressive strength of concrete at 28 days shall be 4000 psi. All exterior concrete shall have air entrainment of 5% to 8% by volume per ASTM C-260. Retempering of delivered concrete will not be allowed. Concrete shall be composed of:
1. Portland cement: conforming to ASTM C-150, Type IA or Type IIIA.
2. Aggregates: conforming to ASTM C-33.
3. Water: shall be clear and free from injurious amounts of oils, acids, alkalis, organic materials or other deleterious substances.
B. Welded Steel Wire Fabric: Where required for concrete reinforcement shall conform to ASTM A185.
C. Premolded Joint Filler: Shall be of non-extruding type meeting ASTM D-544, except that premolded joint filler used in concrete walk construction may be either non-extruding or resilient.
D. Bituminous Pavement Materials: All materials proposed for the construction of bituminous pavements shall comply with the Indiana Department of Highway Specifications, per latest revisions.
E. Compacted Aggregate Subbase: Shall be crushed stone or gravel. Crushed gravel shall be a minimum of 3/4 inch and shall be limited to a maximum of 10% of the total. Material shall be free from an excess of flat, elongated, thinly laminated, soft or disintegrated pieces and shall be free from fragments coated with dirt. Compacted aggregate shall be graded as follows:
SIEVE SIZE AND PASSING
1-1/2" 100
1" 80-100
3/4" 70-80
3/8" 50-60
#4 35-40
#10 25-30
12-30
#200 5-10
3. APPLICATION:
A. Grading: Do any necessary grading in addition to that performed in accordance with Earthwork Section, to bring subgrades, after final compaction, to the required grades and sections for final improvement.
B. Preparation of Subgrade: Remove spongy and otherwise unsuitable material and replace with stable material. No traffic will be allowed on prepared subgrade prior to paving.
C. Compaction of Subgrade: The first 6 inches below the subgrade shall be compacted to at least 100% of the maximum dry density as determined by the provisions of ASTM D-155. Water shall be prevented from standing on the compacted subgrade.
D. Utility Structures: Check for correct elevation of all manhole covers, valve boxes and similar structures located within areas to be paved, and make, or have made, any necessary adjustments in such structures.
E. Placing Concrete:
1. Subgrade: Place concrete only on a moist, compacted subgrade or base free from loose material. Place no concrete on a muddy or frozen subgrade.
2. Forms: All forms shall be free from warp, tight setting to prevent leakage and substantial enough to maintain their shape and position without springing or settling, when concrete is placed. Forms shall be clean and smooth immediately before concreting.
3. Placing Concrete: Concrete shall be deposited so as to require as little rehandling as practicable. When concrete is to be placed at an atmospheric temperature of 35 degrees F. or less, paragraph 702.10 of the Indiana Department of Highway Specifications, latest revision shall be followed.
F. Concrete Curb and Gutter:
1. Expansion Joints: Shall be 1/2 inch tight premeasured at ends of all returns and at a maximum spacing of 100 feet.
2. Contraction Joints: Unless otherwise provided, contraction joints shall be sawed joints spaced 20 feet on center.
3. Finish: Tamp and screed concrete as soon as placed, and fill any honey combed places. Finish square corners to 1/4" radius and other corners to radii shown.
G. Concrete Walks and Exterior Steps:
1. Slopes: Provide 1/4 inch per foot cross slope. Make adjustments in slopes at walk intersections as necessary to provide proper drainage.
2. Dimensions: Walks and steps shall be one course construction and of widths and details shown on the drawings.
3. Finish: Screed concrete and trowel with a steel trowel to a hard dense surface after surface water has disappeared. Apply medium broom finish and scribe control joints at 5 foot spacing. Provide 1/2" expansion joints where sidewalks intersect, and at a maximum spacing of 48 feet between expansion joints.
H. Curing Concrete: Except as otherwise specified, cure all concrete by one of the methods described in Section 501.17 of the Indiana Department of Highway Specifications, latest revisions.
I. Bituminous Pavement: Not asphalt concrete pavement shall be a specified in Section 400 of the Indiana Department of Highway Specifications, latest revisions. Paving will not be permitted during unfavorable weather or when the temperature is 40 degrees F. and falling.
J. Compacted Aggregate Subbase: The thickness shown on the drawings is the minimum thickness of the fully compacted subbase. Compaction shall be accomplished by rolling with a smooth wheeled roller weighing 8 to 10 tons. Compact to 90% compaction using Standard Testing Procedures. Along curbs, headers and walls and at all places not accessible to the roller, the aggregate material shall be tamped with mechanical tampers or with approved hand tampers.

WATER MAINS

- 1. SCOPE OF WORK:
The work required under this section includes all cold water distribution lines, valves, meter pits, hydrants and related items including excavating and backfilling necessary to complete the work shown on the drawings. The ends of water service lines shall be tightly plugged or capped at the terminal points pending the connecting to all such lines of the building piping as specified in the plumbing specifications and architectural drawings.
2. MATERIALS:
A. Cast Iron Pipe: Cast iron pipe shall meet ANMA Specification C-115 with push-on joints meeting ANMA Specification C-151. Wall thickness shall be determined from Table C in ANMA C-104. Ductile iron pipe shall meet ANMA C-150 and C-151 specifications. Pipe to be cement lined per ANMA C-104.
B. Copper Tubing: Shall be seamless, annealed copper tubing complying with Federal Specification WS-7799. Fittings shall be wrought copper or cast bronze with solder joints. Solder shall be of a composition recommended by the manufacturer of the fittings.
C. Fire Hydrants: Shall comply with ANMA Specification C-502 and shall meet local standards and requirements, particularly as to nozzle diameters and threads, direction of opening and dimensions of operating and cap nuts. Fire hydrants shall have one pump and two hose nozzles. A valve opening not less than 5 inches and a 4 inch inlet connection. The length of the hydrant barrel shall be determined by the specified depth of cover over the pipe.
D. Valves: All valves and stops shall have ends suited or adapted for the proper installation in the lines in which they are located. Valves shall meet local standards or in the absence of such standards, the following requirements:
1. Valves in cast iron pipe shall be iron body, bronze mounted, disc gate valves conforming to ANMA Specification C-500. They shall open in the same direction as those used in the local waterworks system. Valve stems shall terminate in 2 inch wrench nuts. Furnish two (2) keys.
2. Valves in copper pipe shall be standard brass body, round-way, ground-key stops, with T heads. Furnish two (2) keys.
E. Valve Boxes: Shall meet local standards or in the absence of such, shall comply with the following requirements:
1. For iron body valves, boxes shall be approved standard buffalo-type, cast iron, adjustable short-boxes, having a minimum short diameter of 3/4 inches.
2. For brass body valves (stops) boxes shall be approved standard cast iron extension service boxes, having a minimum diameter of 2-1/2 inches and having lid held in place by a brass or bronze bolt. The castings shall be coated with two coats of coal-tar pitch varnish. Furnish two (2) keys for both lids.
F. Plastic Pipe: Shall conform to ASTM D-2241-SDR 21 with flexible elastomeric seal joints conforming to ASTM D-1319. SEAL OF APPROVAL SHALL BE STAMPED ON ALL PLASTIC PIPE.
G. Stops: Stop shall be those manufactured by Ford or Mueller Corporation with ANMA taper thread, and with copper compression type fitting on outlet, or equal.
H. Blow-off valves: Blow-off valves shall be those manufactured by Mueller Corporation (M-10283) or M-10293), or equal.
I. Angle Valves: Angle valves at the end of water service stubs are to be copper compression type fitting also, and are to be protected with plastic bag over the valve.
J. Taps: 3/4" taps in lines smaller than 4 inches shall be only by tapped tee or tapping saddle. Water service lines should be marked on curbs with blue paint. (See lateral in drawings - red).
3. APPLICATION:
A. Permits and Codes: The intent of this section of the specifications is that the contractor's bid on the work covered herein shall be based upon the drawings and specifications but that the work shall comply with all applicable codes and regulations. Contractor shall furnish all necessary bonds to get permits for cuts and connections.
B. Existing Improvements: Maintain in operating condition all active utilities and sewers and other pipe systems shown on the drawings.
C. Trenching: Lay all pipe in open trenches, except when local authority gives written permission for tunneling. Provide a separate trench for the water line at least 12 inches horizontally from any sanitary sewer. In locations where separate trenches for sewer and water lines are impracticable, lay the water pipe on a solid shelf at least 18 inches above the top of the sewer.
D. Width of Trench: Excavate trenches 12 inches each side of the pipe for proper installation of pipe.
E. Sheeting and bracing: Sheet and brace trenches as necessary to protect workmen and adjacent structures. All trenching shall comply with the Occupational Safety and Health Administration Standards.
F. Water Removal: Keep trenches free from water while construction thereon is in progress. Under no circumstances lay pipe or appurtenances in standing water. Conduct the discharge from trench dewatering to drains or natural drainage channels.
G. Grading Trench Bottoms: The bottom quadrant of the pipe shall be fully and uniformly supported. The full lined shall rest on the barrel of the pipe. The trench may be excavated to a depth of 4 inches or more below final grade with sand, crushed stone or gravel backfill to bring it back to pipe laying grade. For a depth of at least 12 inches above the top of the pipe backfill with earth or granular material free from large stones, roots or frozen clogs. Tamp this backfill thoroughly taking care not to disturb the pipe. Backfill under walks, parking areas, driveways and streets with granular material only and tamp thoroughly, by approved methods. Trenches parallel to and within 10 feet of paved roadways shall be constructed the same.
H. Test: Before joints are covered, fill the piping with water, opening hydrants or other outlets to expose air. Test the piping for leakage for a period of at least two hours at a pressure of 100 pounds per square inch. Inspect all joints for leakage and remedy any leaks. Upon completion of the water distribution mains, flush out the system until the water runs clear. As soon as the system has been flushed out, it shall be sterilized in accordance with the requirements of the Water Company.
I. Shop Drawings: Submit Shop Drawings of hydrants and valves to the Water Company for approval.
J. If a horizontal distance of 10 feet cannot be maintained between the water line and the sanitary sewer line, the sewer must be constructed of water works grade ductile iron pipe with mechanical joints within 10' of the water line.
K. Utilities: It shall be the responsibility of each contractor to verify all existing utilities and conditions pertaining to his phase of the work. It shall also be the contractor's responsibility to contact the owners of the various utilities before work is started. The contractor shall notify in writing the owners or the engineer of any changes, errors or omissions found on these plans or in the field before work is started or resumed.
L. New Water Main Construction: Contractor to record dimension of each water stub and valves from nearest fire hydrant measured along water main. The locations of hydrants and water valves, along with any other construction changes are incorporated on the original construction drawings and "Record Drawing" prints submitted to the Water Company as soon after completion of construction as possible.

REVISIONS table with columns: NO., DATE, CHECKED BY, DATE, CHECKED BY. Includes project information: PROJECT LARKSPUR (PHASE 2), PREPARED FOR THE KELLEY GROUP, TITLE SPECIFICATIONS, SCALE N/A, SHEET 5-14, JOB NO. 657.02, SCHNEIDER ENGINEERING CORPORATION, 3020 NORTH POST ROAD, INDIANAPOLIS, INDIANA 46228-1818, (317) 898-0282, P.O. BOX 20088, CERTIFIED civil engineers and land surveyors.

FILED APR 23 1996 OFFICE OF HAMILTON COUNTY SURVEYOR



**-WARNING-**  
 THIS SHEET TO BE USED FOR EROSION CONTROL PURPOSES ONLY. FOR ANY OTHER INFORMATION SEE DEVELOPMENT PLAN.

**EROSION CONTROL**

- LAND ALTERATIONS WHICH STRIP THE LAND OF VEGETATION, INCLUDING REGRADING, SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION. WHENEVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED, PROTECTED AND SUPPLEMENTED.
- THE DURATION OF TIME WHICH AN AREA REMAINS EXPOSED SHALL BE KEPT TO A PRACTICAL MINIMUM. THE AREA SHALL BE STABILIZED AS QUICKLY AS PRACTICAL.
- TEMPORARY VEGETATION OR MULCHING SHALL BE USED TO PROTECT EXPOSED AREAS DURING DEVELOPMENT.
- PERMANENT AND FINAL VEGETATION OR STRUCTURAL EROSION CONTROL DEVICES SHALL BE INSTALLED AS SOON AS PRACTICAL UNDER THE CIRCUMSTANCES.
- SEDIMENT IN RUN-OFF WATER SHALL BE TRAPPED BY THE USE OF SUCH METHODS AS DEBRIS BASINS, AND SILT TRAPS UNTIL THE DISTURBED AREA IS STABILIZED.

**NOTE**  
 ABSOLUTELY NO TRAFFIC TO BE PERMITTED ON THE PROPOSED SEPTIC ABSORPTION FIELD AREAS.

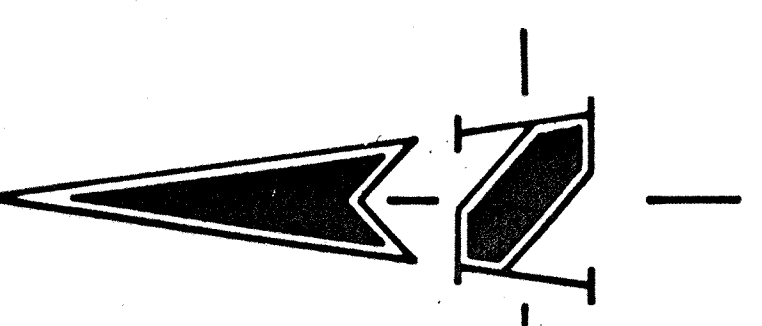
**NOTE:**  
 SHADED AREA DENOTES AREA TO BE SEEDED AND STRAW MULCHED.

Temporary Seeding Dates

Month or Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Annual Bygrass												
Non-Irrigated												
Irrigated												
Dormant Seedings												

Permanent Seeding Dates

Irregular seeding dates may be extended 5 days if match is applied.  
 \*\* Increase seeding application by 50%.



HOLEY MOLEY SAYS,  
**"DON'T DIG BLIND"**

**1-800-382-5544**  
 CALL TOLL FREE  
**1-800-428-5200**  
 FOR CALLS OUTSIDE OF INDIANA

Soil Remediation

Apply lime to raise the pH to the level needed for species being seeded. Apply 25 pounds of 12-12-12 analysis fertilizer (or equivalent) per 1000 sq. ft. (approximately 500 pounds per acre) or fertilizer according to test. Application of 100 lbs. of ammonium nitrate on areas low in organic matter and fertilizer will greatly enhance vegetative growth.

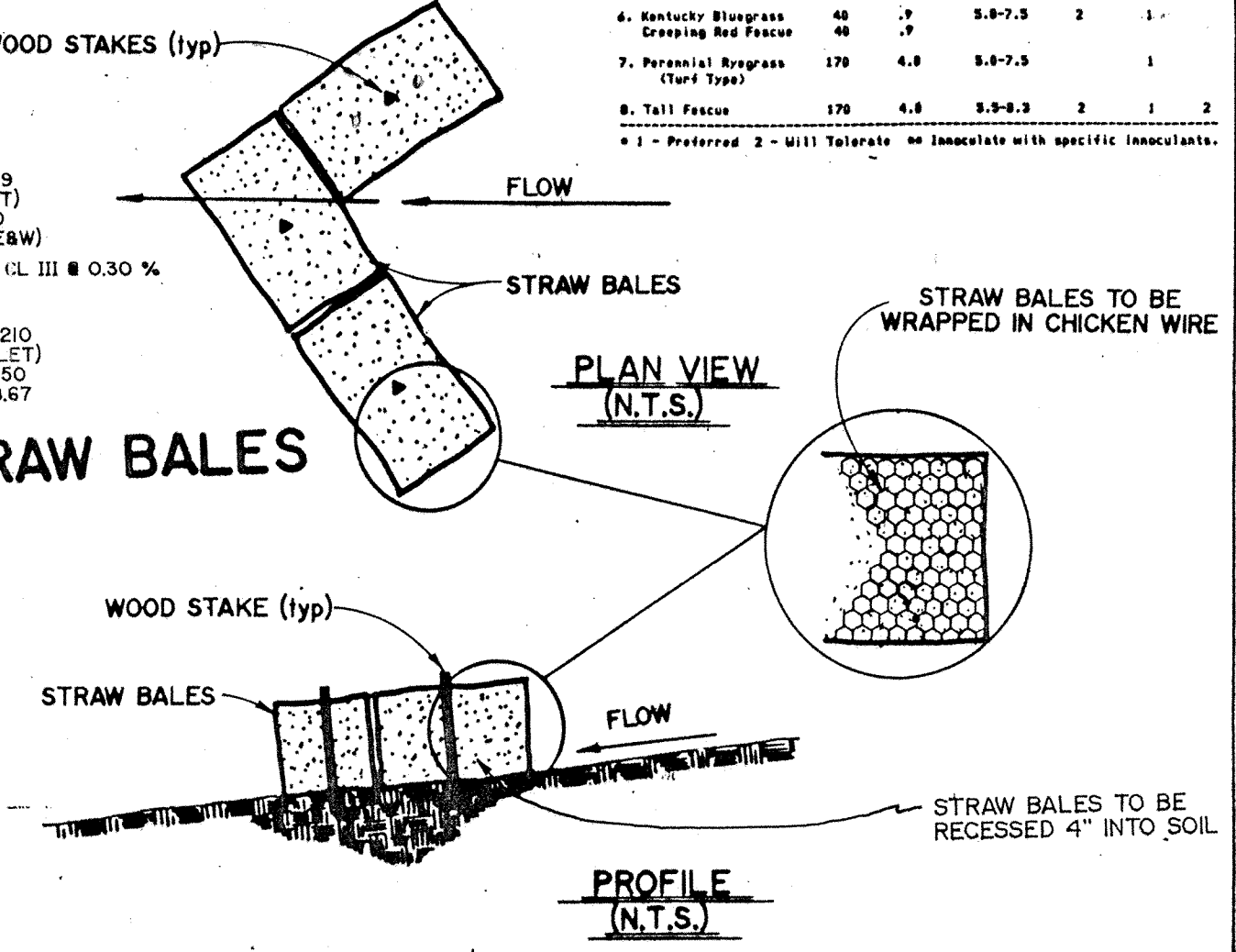
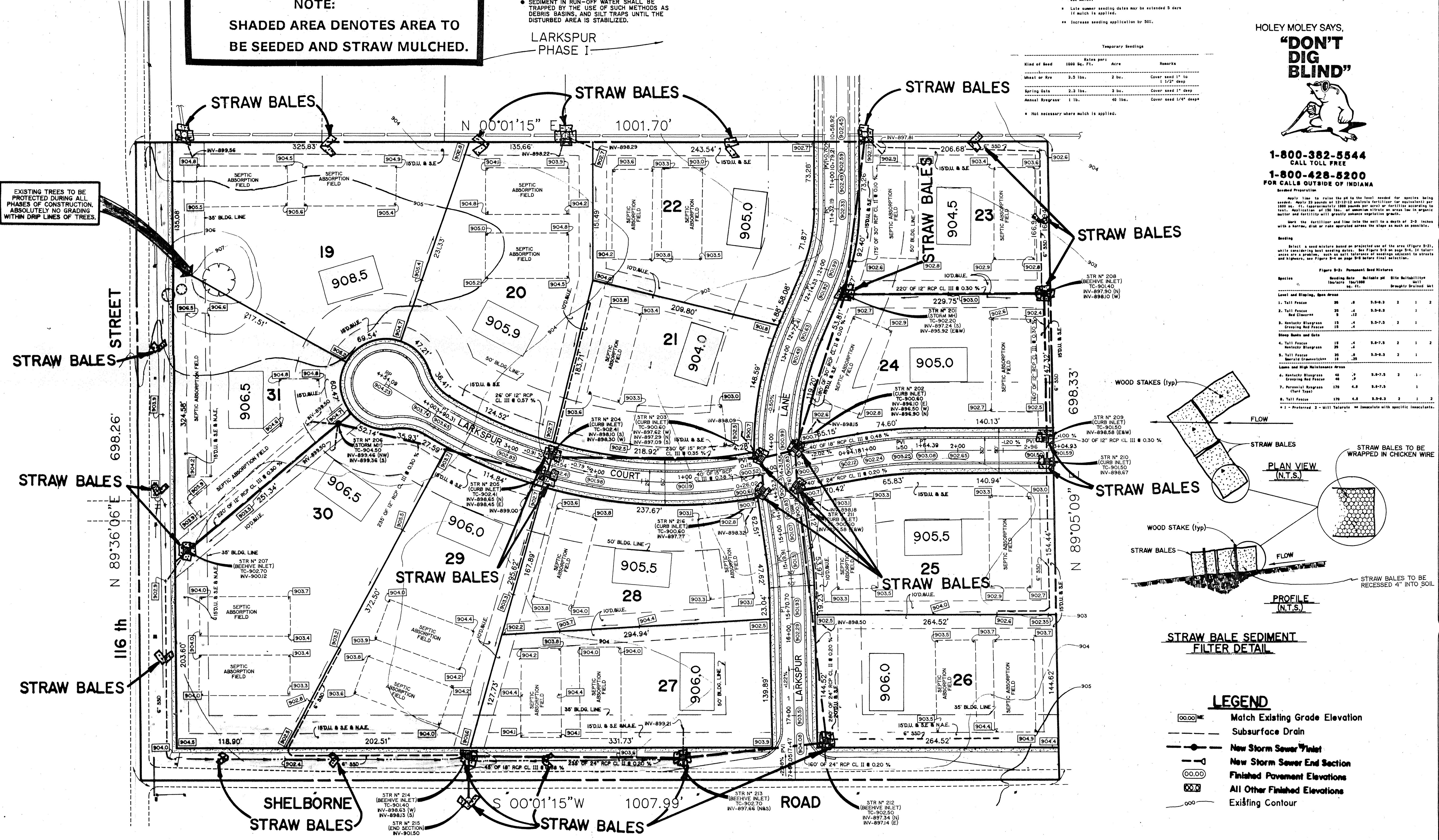
Work the fertilizer and lime into the soil to a depth of 2-3 inches with a harrow, disk or rake operated across the slope as much as possible.

**Seeding**  
 Select a seed mixture based on projected use of the area (Figure 9-2), with consideration for seed quality and quantity. See Figure 9-2 on page 9-4. If tolerances are a problem, such as soil tolerance of seedlings adjacent to streets and signposts, see Figure 9-2 on page 9-4 before final selection.

**Figure 9-2: Permanent Seed Mixtures**

Species	Seeding Rate (lb/1000 sq. ft.)	Ballistic Index (lb/1000 sq. ft.)	Drainage (Drainage Unit)
1. Tall Fescue	25	4	2
2. Tall Fescue Red Clover	25	4	2
3. Kentucky Bluegrass Crested Red Fescue	15	4	2
4. Tall Fescue Kentucky Bluegrass	25	4	2
5. Tall Fescue Bermuda Grass	25	4	2
6. Kentucky Bluegrass Crested Red Fescue	40	4	2
7. Perennial Ryegrass Crested Red Fescue	15	4	2
8. Tall Fescue	25	4	2

\* 1 - Preferred 2 - Will tolerate no insecticide with specific insecticides.



**STRAW BALE SEDIMENT FILTER DETAIL**

**LEGEND**

	Match Existing Grade Elevation
	Subsurface Drain
	New Storm Sewer Inlet
	New Storm Sewer End Section
	Finished Pavement Elevations
	All Other Finished Elevations
	Existing Contour

REVISIONS

NO.	DATE	CHECKED BY	DATE	CHECKED BY

DRAWN BY: **W.C.E. WATSON**

PROJECT: **LARKSPUR (PHASE 2)**  
 PREPARED FOR: **THE KELLEY GROUP**  
 TITLE: **EROSION CONTROL PLAN**

JOB NO: **657.02**  
 SCALE: **1" = 50'**  
 SCHNEIDER ENGINEERING CORPORATION  
 3025 NORTH POST ROAD  
 INDIANAPOLIS, INDIANA 46226-8118  
 (317) 898-8282  
 CIVIL ENGINEERS  
 LAND SURVEYORS  
 P.O. BOX 26088

**FILED**  
 APR 23 1996  
 OFFICE OF HAMILTON COUNTY SURVEYOR