# ARGYLE FOREST SUBDIVISION

#### **SPECIFICATIONS**

Except at modified by these plans and by the datailed specifications pertaining thereto, all work shall be governed by the Wood County Construction Standards and/or by the State of Ohio Department of Transportation "Construction and Material Specifications", dated January 1, 2002, and supplements thereto in effect fourteen (14) calender days prior to receiving bids.

#### UNDERGROUND UTILITIES & ADJUSTMENTS

The location of existing utilities shown on these plans are approximate. The exact location shall be verified by the contractor. The contractor shall notify each respective utility company at least seven (7) days prior to the time of construction. Any and all adjustments or extensions required for public or private utilities will be done by and at the expense of their respective owners, unless otherwise noted on the plans.

# UTILITY OWNERSHIP

The following is a list of the owners of utilities known to be within the limits of contratuction.

Columbia Gas 200 Civic Center Drive Columbus, OH 43215 Phone: 800-440-611

Toledo Edison Company 300 Madison Avenue Toledo, OH 43652 Phone: 419-249-5040

Northwestern Water & Sewer District 12560 Middleton Pike P.O. Box 348 Bowling Green, OH 43402 Phone: 419-354-9090

130 N. Erie Street Room 714 Toledo, OH 43624 Phone: 419-245-5023

105 S. 3rd Street Waterville, OH 43566 Phone: 888-683-1000

### BEGINNING CONSTRUCTION

The Wood County Engineer shall be notified seven (7) days prior to the beginning of the actual construction.

## EXISTING BENCH MARKS, MONUMENTS, AND CONTROL POINTS

Existing survey monuments, bench marks, property corner points and control points damaged or disturbed by construction will be replaced by a registered land surveyor at the expense of the Contractor. Should the Contractor fail to properly replace these points, the Wood County Engineer shall replace these points at the Contractor's expense, after three (3) weeks notice. The Contractor is to notify the Wood County Engineer of any anticipated conflicts.

# EXISTING SEWERS

The Contractor shall conduct his operations so as to maintain existing sewer flows at all times and shall promptly replace in kind any storm sewer disturbed by construction to the satisfaction of the Wood County Engineer. The cost of making inspections and any repairing or correction of sewers as a result of construction operations shall be included in the unit price for the pertinent bid item.

# HAUL ROUTES

The contractor shall maintain these routes in a condition acceptable to the Wood County Engineer during the life of the project. This maintenance includes the removal of mud, stone and other material hauled.

# MAINTENANCE OF TRAFFIC

Two-way traffic shall be maintained at all times on dedicated roads. If construction along dedicated roads interferes with traffic, in the opinion of the Wood County Engineer, then two (2) flagmen shall be provided by the Contractor. All barricades, signs, flagmen and other traffic control measures shall meet the requirements of Ohio Department of Transportation Specifications, Item 614, Maintaining Traffic and the "Ohio Manual of Uniform Traffic Control Devices for Streets and Highways".

# STORM SEWERS

a. PVC PIPE

If type "B" or "C" pipe is specified, the contractor may use Poly-Vinyl Chloride (PVC) sewer pipe and fittings, ASTM designation D-3034. SDR 35.

All bedding shall be Class "B" bedding and meet the requirements of Item 603.04 Bedding, Ohio Department of Transportation Specification, dated January 1, 2002. Where PVC pipe is used, the bedding shall be extended to 6" above the top of the pipe.

c. PIPE JOINTS

Pipe joints beneath the pavement shall meet the requirements of the State of Ohio, Department of Transportation Specifications, Item 706.11 (ASTM C-443).

# PIPE SPECIALS

Quantities for pipe, bends, tees, wyes and other fittings are listed on the plans for the convenience of the Contractor. The unit price bid for the pipe shall include all necessary fittings. All pipe specials shall be factory made.

# STORM TAPS

All lot drain connections shall be installed at the grade shown. All taps shall be properly plugged with the cost of labor and material for installation included in the unit price bid for the appropriate pipe item.

Pipe within five (5) feet of the edge or back of curb of existing or proposed pavement and under the existing or proposed pavement shall be backfilled with approved granular material to the subgrade. Granular material shall meet the grading requirements of Item 411 or 304 stone, Ohio Department of Transportation Specifications of 2002 or Ohio Department of Transportation Specifications as modified by the Wood County Engineer (maximum dry density exceeding 105 pounds/cubic foot and 98% compaction as determined by the Standard Proctor Test). The Wood County Engineer reserves the right to order compaction tests if the Wood County Engineer deems necessary. Pipe outside the limits of five (5) feet from the edge or back of curb of the existing or proposed payement may be backfilled with suitable excavated material. Item 411 or 304 stone approved granular material shall be included in the unit price per lineal foot of pipe.

Roof drains, foundation drains and all other clean water connections to the sanitary sewer are prohibited.

### CATCH BASINS AND MANHOLES

All catch basins and manholes are to be constructed without sumps or traps.

### MANHOLE RIM ELEVATIONS

When Manholes are located with the pavement, the uppermost surface of the frame or cover shall be one-guarter (%) inch below the pavement surface. When manholes are located outside the pavement, the top should be set one (1) inch above the finished ground grade.

#### EXISTING PAVEMENT REPLACEMENT

Existing payement replacement cost shall be included in the unit price bid for the appropriate pipe item.

#### STORM SEWER ACCEPTANCE

Prior to final acceptance of the project by the Wood County Engineer, all storm sewers installed or repaired shall be thoroughly cleaned and flushed with water. All new inlets and manholes constructed as part of this project shall be free of all foreign matter and in clean condition before the project is accepted by the Wood County Engineer.

#### RESTORATION OF RIGHT OF WAY

All existing features in the Tracy Road and Ayers Road right of ways that are disturbed due to construction, such as: mailboxes, shrubs, bushes, guardrail, driveways, swales, sewers, catch basins, berms, seeded areas, etc. shall be replaced to their original condition in accordance with current Ohio Department of Transportation Specifications, Item 603.09 and to the satisfaction of the Wood County Engineer. Payment for this work shall be included in the unit price bid for the pertinent item.

### SEEDING & MULCHING

Seeding and mulching shall be as per O.D.O.T. Specifications, Item 659, using seeding mixture: 35% Kentucky Bluegrass (POA Pratensis), 55% Creeping Red Fescue (Festuca Rubra), 5% Red Top (Agrostis Alba) & 5% White Dutch Clover (Trifolium Repens). Seeding and mulching shall include all proposed rights of way and all disturbed areas within existing County and Township rights of way. All rear lot swales and/or drainage swales shall be restored after all utilities have been constructed. These areas shall be seeded and mulched as per above seeding mixture. Seeding and mulching shall not be placed without approval of the Wood County Engineer.

# BACK LOT DRAINAGE

All back lot drainage swales shall be constructed in conjunction with pavement subgrade preparation. No public utilities shall be placed within the drainage and utility easement until the rear lot grading has been approved by the Wood County

### TESTING

#### a. SUBGRADE COMPACTION TEST

Compaction of embankment and pavement subgrade areas shall be at 98% as determined by the Standard Proctor Test. Compaction tests shall be taken every four hundred (400) feet maximum per Wood County

### b. BASE COMPACTION TEST

Compaction of subbase and base materials shall be as per Ohio Department of Transportation Specifications. Compaction tests shall be taken every four hundred (400) feet maximum as per Wood County Engineer. Compaction shall be at least 98% as determined by Standard Proctor Test.

#### c. CONCRETE TEST

Three (3) concrete cylinders shall be taken and tested from each days pour per Wood County Engineer. The concrete shall develop a compressive strength at 28 days of 4000 psi and meet the requirement of ODOT Specification, Item 609 and the Wood County Engineer.

#### d. ASPHALT CONCRETE TESTING

A minimum of two (2) samples shall be taken per day on each type of asphalt concrete. Samples shall be tested for bitumen content and corrected by the ash method. Minimum bitumen content shall be as follows: 1. 448 Asphalt Concrete (Surface Course) 6.2 AC-20 2. 448 Asphalt Concrete (Intermediate Course) 6.2

#### e. COST

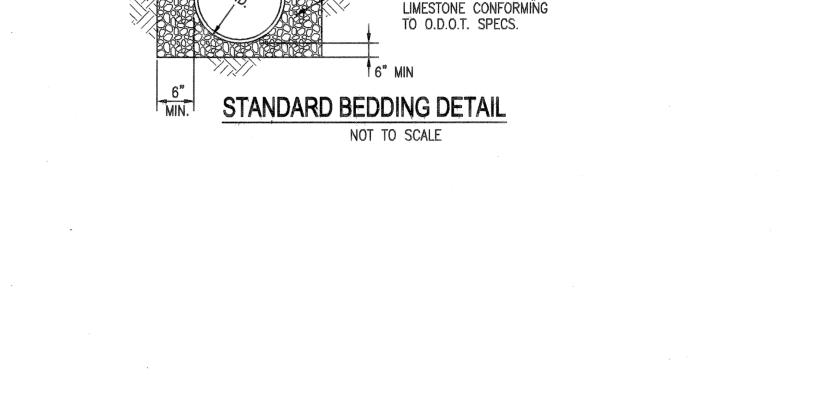
Material sampling and testing shall be by a testing firm approved by the Wood County Engineer. The cost of material sampling and testing shall be paid by the developer.

Cost of inspection by the Wood County Engineer shall be paid for by the developer.

#### ROAD NAME SIGNS AND STOP SIGNS

Road name signs and stop signs will be placed by the Wood County Engineer. The cost shall be paid by the developer.

The lump sum price bid for Item 201, Clearing and Grubbing, shall be considered payment in full for the removal and disposal of all brush, trees, and stumps necessary to construct all items as shown on these plans.

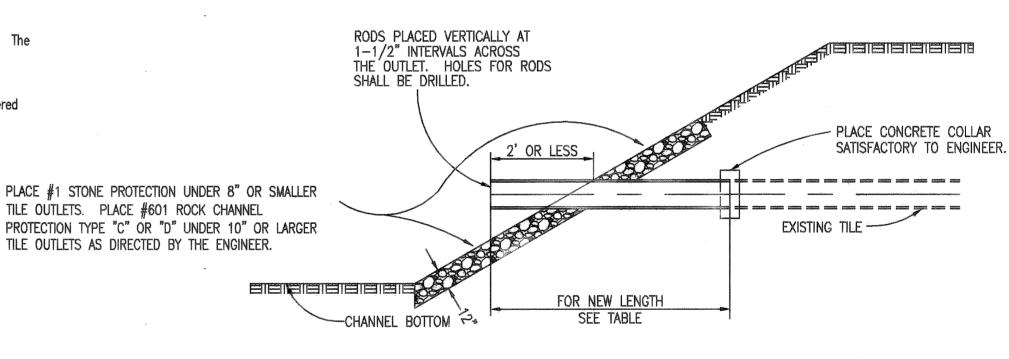


30" MAX. FOR

6" TO 15" DIA. PIPE

UNDISTURBED

TILE OUTLETS. PLACE #601 ROCK CHANNEL



BACKFILL AS REQUIRED #304 O.D.O.T. FOR DRIVE AND WITHIN 5' OF EDGE OF PAVEMENT AND BACK OF CURB

FINELY DIVIDED EARTH BACKFILL IN GRASS AREA

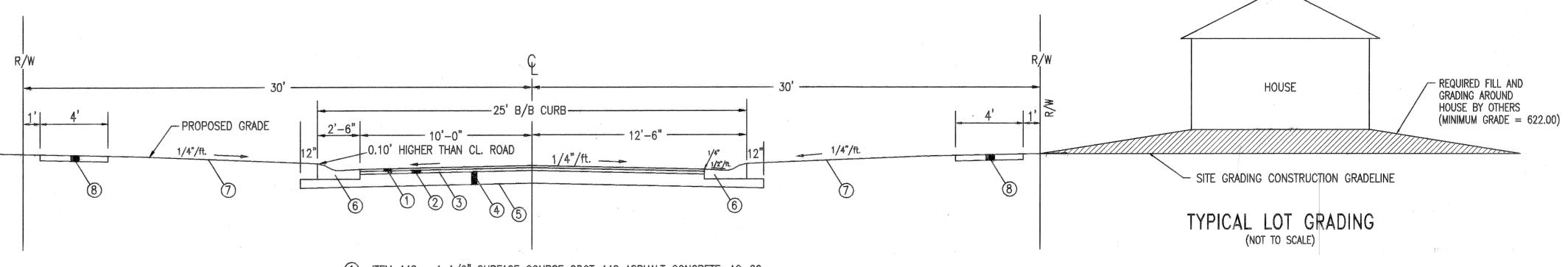
APPROVED BEDDING AND

GRANULAR BACKFILL #67

	EXISTING TILE SIZE			
	4" & UNDER	5" & 6"	8"	10" & OVER
NEW TILE SIZE REPLACEMENT	4"	6"	8"	10" & OVER
NEW TILE LENGTHS REPLACEMENT	12'	12'	12'	20'

# **ROCK CHANNEL PROTECTION TABLE & DETAIL**

NOT TO SCALE



(1) ITEM 448 1 1/2" SURFACE COURSE ODOT 448 ASPHALT CONCRETE, AC-20

(2) ITEM 448 2" INTERMEDIATE COURSE ODOT 448 ASPHALT CONCRETE, AC-20

(3) ITEM 408 BITUMINOUS PRIME COAT @ 0.35 GAL./SQ.YD.

(4) ITEM 304 10" AGGREGATE BASE (2 COURSES)

(5) ITEM 203 SUBGRADE COMPACTION

(6) ITEM 609 MOUNTABLE CURB AND GUTTER, TYPE "F"

(7) ITEM 659 SEEDING AND MULCHING

(8) ITEM 608 4" CONCRETE WALK

JULY 2004 DRAWN BY: PCW/CEL PROJECT # 20041044

4 03-24-05 COUNTY REVISIONS

REVISIONS

08-16-04

12-02-04 STORM SYSTEM RESIZED

3 01-10-05 & 03-07-05 COUNTY REVISIONS

10-15-04 CB ADDED 18" STORM REROUTE

C Consulting,

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