

HAMILTON COUNTY ENGINEER'S

SCOPE OF SERVICE

1. PROJECT IDENTIFICATION:

Road Name: APPLE HILL ROAD Road No: 51

Project No: 500229

2. PROJECT INFORMATION:

Limits: City of Cincinnati corporation line, approximately 3500 feet north of Kellogg Road, to Salem Road.

Length: Approximately 2300 feet

3. AGREEMENT BETWEEN CONSULTANT AND:

State _____ County XX Township _____

City _____ Other _____

4. METHOD OF FINANCING:

Engineering: County Road & Bridge funds.

Construction: Undecided at this time.

5. WORK PHASES INCLUDED IN AGREEMENT:

PHASE A Plan Submission: Line, grade and typical sections on Base Sheets to be used in final plans.

Critical cross sections are to be plotted. Potential design problem areas are to be identified.

PHASE B Plan Submission: To conform to Phase A recommendations. Final review submission is to

include Special General Notes and Specifications and quantities.

6. PLAN SCALES:

PLAN: 1" = 20' Min.

PROFILE: Hor. 1" = 20' Min. Vert. 1" = 5' Min.

CROSS SECTIONS: Hor. 1" = 5' Min. Vert. 1" = 5' Min.

7. JOURNALIZED SPEED LIMIT:

Road: Apple Hill – 35 MPH (not journalized to date)

8. TYPICAL SECTIONS/NUMBER OF LANES:

See Additional Information sheet.

Salvage Existing Pavement: XX

Curbs: XX Report to Recommend: _____

Type: See Additional Information sheet.

Shoulders/Berms: _____ Report to Recommend: _____

Type: _____

Safety Grading Criteria: _____ Partial: _____

Guardrail: _____ Type: _____

Median: _____

Clear Zone Grading: _____

Fencing: _____

Lighting: _____

Remarks: Unless otherwise directed by the Engineer, the width of the traveled lanes will be determined by the edge treatment recommended by the Consultant. If curbs are not used, the traveled lane will have a minimum width of twelve (12) feet with an adjacent, paved berm with a minimum width of three (3) feet. If a rolled curb and gutter section is used, the lane width adjacent to the section will have a minimum width of eleven (11) feet; if a vertical curb section is used, the lane width adjacent to the section will have minimum width of twelve (12) feet.

9. ALIGNMENT:

Existing alignment is to be basically followed.

10. PROFILE:

Existing profile is to be followed as much as possible. Slight adjustments in profile may be required to establish/maintain drainage patterns.

11. SIGNAGE:

Phase A: _____

Phase B: _____

12. SIGNALS:

Existing Signals:

To be Modified: _____ To be Replaced: _____

Proposed (New) Signals:

Locations: _____

Phase A to recommend locations: _____

Signal Warrants: _____

Phase A: _____

Phase B: _____

Remarks: Unless otherwise specified by the Engineer, ALL traffic signal improvements shall utilize Light Emitting Diode (LED) signal heads and signal lamp units.

13. STRIPING:

Phase A: _____

Phase B: _____

Type: _____

14. DELINEATION:

Delineators: _____

RPMs: _____

15. DRAINAGE:

Drainage Criteria: State _____ County XX Public Works XX
Other _____

Phase A Preliminary Plan: _____

Existing: Surface XX Closed _____

Proposed: Surface _____ Closed XX

Special Flood Hazard Area (SFHA): _____

Storm water Pollution Prevention Plan: _____

Flood Plain Study Required: _____

Channel Change Study Required: _____

Remarks: As may be applicable and especially for a project involving large areas of new pavement, i.e. major pavement widening, construction of new roads, realignment of an existing road, prior to the submittal of Phase A plans, the Consultant MUST contact those agencies having jurisdiction over storm water and storm water facilities, e.g. Metropolitan Sewer District (MSD), Hamilton County Public Works or state/federal agencies, to determine if any special considerations or restrictions, e.g. detention or flood mitigation, will have to be met during the design of the drainage improvements. The Consultant MUST report these special design considerations to the Engineer as a part of the Phase A submittal.

16. BRIDGE CROSSINGS:

Number of Bridges: None

Cross Roads: _____

Streams: _____

Supplemental Site Plan for Streams: _____

Culverts: _____

Alternates Required: _____

Railroads: _____

Railroad Location Plan: _____

Railroad Site Plan: _____

Pedestrian: _____

Mass Transit: _____

Other: _____

Remarks: _____

17. MISCELLANEOUS DESIGN CONSIDERATIONS:

Bikeways: _____

Railroads: _____

Mass Transit: _____

Service Roads: _____

18. RETAINING WALLS:

Number of Retaining Walls: None foreseen at this time.

Type(s) of Retaining Walls: _____

Phase A: _____ Wall Justification: _____

Phase B: _____

Remarks: Any wall over three (3) feet in height, as measured from the top of the footer to the top of the wall, **MUST** be engineered and a wall profile, indicating the height of the wall, and other pertinent wall details **MUST** be included in the plans. The plan view(s) or a detail for the wall **MUST** indicate the length of any tie-back systems that are required for the construction of the wall. ALL pre-manufactured walls, i.e. Keystone walls, **MUST** be designed in strict accordance with the Manufacturer's requirements.

19. MAINTENANCE OF TRAFFIC:

Maintenance of Pedestrian Traffic: _____

Maintenance of Railroad Traffic: _____

Maintenance of Vehicular Traffic: XX

Temporary Road(s): _____ Phase A to Recommend: _____

Temporary Road Plans & Notes by: County _____ Consultant _____

Detour Plan Prepared by: County _____ Consultant _____

Remarks: At this time, it is presumed that construction is to be completed under traffic. To the satisfaction of and subject to the Engineer's review and approval, the Consultant is to prepare a tentative outline for the sequence of construction, a maintenance of traffic plan and/or maintenance of traffic notes in sufficient detail for the proper control of traffic through the project, especially involving ingress to and egress from the abutting properties within the project area.

As may be applicable during the preparation of the plans, the Consultant shall work with the Engineer to determine if alternative methods of handling traffic would be warranted and desirable during the construction of the project. These measures may include, but not be limited to, the detouring of all through traffic while maintaining local traffic or the maintaining of through traffic on a one-way only basis. If the Engineer authorizes other methods, the Consultant will work with the Engineer to determine if special restrictions are to be enforced during the implementation of the alternate measure(s), i.e. a total time duration, a daily time/hour restriction, etc. The Consultant will also work with the Engineer's Traffic Department to determine the detour route and prepare the necessary detour plan(s). As necessary for the alternative measures, the Consultant is to prepare a tentative outline for the sequence of construction, a maintenance of traffic plan and/or maintenance of traffic notes in sufficient detail for the proper control of traffic through the project, especially involving ingress to and egress from the abutting properties within the project area.

This item of work shall also include the preparation of any necessary plans that indicate temporary work zone pavement markings and/or signs that are to be included in the project, especially where the number of traveled lanes and/or the width of traveled pavement are to be decreased during construction.

All items of work relating to the maintenance of traffic are to be submitted with the final plan review submission.

20. UTILITIES:

Water	(XX)	Sanitary	(XX)
Electric	(XX)	Gas	(XX)
Telephone	(XX)	Cable TV	(XX)
Public Works	(XX)		

Others: _____

Consultant shall contact all Utility Companies and indicate all existing utilities (including house connections) on the plans as required by Section 153.64 O.R.C. (H.B.538). Consultant shall furnish all utilities with a copy of the preliminary plans for preliminary coordination. A copy of the transmittal letters shall be furnished to the County Engineer.

21. ESTIMATED QUANTITIES:

Phase A: _____
Phase B: _____ XX _____
Quantity Splits: _____

22. CONSTRUCTION COST ESTIMATE:

Submit with Letter of Interest: _____ XX _____
Phase A: _____
Phase B: _____

23. EXTENT OF FIELD SURVEYS:

Survey Information by: Field Method _____ Aerial _____

- Main Road Alignment (XX)
- Main Road Profile (XX)
- Side Road Alignment (XX)
- Side Road Profile (XX)
- Reference Points & Bench Marks (XX)
- Aerial Control ()
- Alignment & Profile of Driveways (XX)
- Cross Sections (XX)
- Pavement Salvage Sections (XX)
- Channel Cross Sections ()
- Profile of Channel ()
- Drainage Survey ()
- Topo Identification (XX)
- Utilities (XX)
- Property Lines (XX)
- Existing Right-of-way lines (XX)
- Geotechnical Boring Staking ()
- Right-of-way Staking ()

24. RIGHT-OF-WAY AND EASEMENTS:

- Property Map (XX)
- Centerline Plat (XX)
- R/W Summary (XX)
- Final Right-of-way Plans (XX)
- R/W & Easement Descriptions (XX)
- Establishment Plat (XX)
- Establishment Descriptions (XX)
- Right-of-way Staking ()

Approximate Number of Parcels _____

Remarks: Preparation of Right-of-way, easement and Establishment descriptions and plans will be handled by an Amendment to the Agreement. As may be pertinent to the project, the preparation of the right-of-way and establishment plans and descriptions shall include clearing title to the Public Road Occupied (PRO) unless otherwise directed by the Engineer. See Additional Information Sheet.

25. TRAFFIC DATA:

State _____ County XX Consultant _____

Remarks: Existing counts to be furnished by the County. Consultant to determine if adjustments to these counts may be warranted. The Traffic Department must approve all traffic data prior to use in design.

26. GEOTECHNICAL/SUBSURFACE INVESTIGATION:

State _____ County XX Consultant _____

Other _____

Remarks: Work to be completed as needed. Consultant is to determine, in conjunction with the Engineer, the amount and type of work to be performed. The Consultant will be responsible for establishing the required field control and for field locating the boring locations.

27. PRIOR STUDIES:

None

ADDITIONAL INFORMATION SHEET

APPLE HILL ROAD

500229

- 1) The Consultant shall use a typical road section with a width of twenty-eight (28) feet, back to back of curb. The Consultant will recommend in the Phase A submittal whether to construct concrete vertical curbs or concrete curb & gutters.
- 2) In areas of new pavement, the Consultant shall use a typical pavement section of six (6) inches of Bituminous Aggregate Base, one and one-half (1 1/2) inches of Asphalt Concrete (Leveling course) and one and one-half (1 1/2) inches of Asphalt Concrete (Surface course).
- 3) As noted in the Scope, the existing pavement is to be salvaged to the greatest extent possible. As may be necessary, the Consultant shall determine and field mark the locations where pavements cores are to be taken. The County will arrange for a testing company to take the pavement cores.
- 4) In the areas of existing pavement that are to be salvaged, the Consultant shall recommend the pavement treatment necessary to rehabilitate/improve the pavements so as to have the pavement as close as possible in compliance with the above pavement section.
- 5) At the intersection of Apple Hill Road and Salem Road, the Consultant shall calculate, verify or check the various elements of the proposed intersection design such as the stopping sight distances and intersection sight distances for each leg of the intersection. The Consultant shall make recommendations may be necessary in order to achieve adequate sight distances.
- 6) At the south terminus of the project, the City of Cincinnati corporation line, the Consultant shall design a T-turnaround in accordance with County specifications. The proposed curb shall wrap around the T-turnaround so as to provide a delineation of the public roadway. The Consultant shall provide a drop curb for the existing private road/driveway into the City and shall include any necessary modifications to the private road/driveway. The Consultant must also design adequate drainage, i.e. catch basins, at the T-turnaround.
- 7) The Consultant shall note that at the south terminus of the project, i.e. the City of Cincinnati corporation line, the improvements may extend into or impact areas within the City. The Consultant **MUST** submit the plans to the appropriate parties at the City of Cincinnati for review and approval. With the final submission of the plans to the County, the Consultant **MUST** submit a letter from the City of Cincinnati stating that the plans have been approved.
- 8) A strip of property, approximately fifty (50) feet in width, has been dedicated to the County for roadway right-of-way. The actual width of the right-of-way strip varies along the length of the road. The Consultant will be required to prepare the necessary right-of-way and Establishment documents so that the right-of-way becomes a consistent fifty (50) feet in width. Any additional permanent right-of-way that may be required is to be acquired from the properties on the east side of the road.

- 9) The maintenance of traffic will be problematic due to the fact that the southern portion of Apple Hill Road, from the southern terminus of this project to Kellogg Avenue, is and will remain a private drive. As may be necessary, the Consultant will work with the City of Cincinnati and the Greater Cincinnati Water Works to regarding maintenance of traffic over this portion of Apple Hill Road.

The Consultant is to prepare a tentative outline for the sequence of construction and a maintenance of traffic plan and/or maintenance of traffic notes in sufficient detail for the proper control of traffic through the project, especially to local residents. The necessary items of work are to be submitted with the final review submission.

- 10) The Consultant shall note that the Engineer intends to submit this project for SCIP/LTIP funding consideration this year. **IF** this project is funding under the upcoming round, **ALL** project work, **INCLUDING** right-of-way and establishment descriptions, plats and plans **MUST** be completed, approved by and submitted to the Engineer by **JANUARY 30, 2004**.