

HAMILTON COUNTY ENGINEER'S

REVISED SCOPE OF SERVICE

1. PROJECT IDENTIFICATION:

Road Name: BLUE ROCK ROAD Road No: 71

Project No: 500325

2. PROJECT INFORMATION:

Limits: Improvement of the Blue Rock Road and Livingston Road intersection. See Additional Information sheet.

Length: Approximately 1,400 feet on Blue Rock Road and approximately 500 feet on Livingston Road.

3. AGREEMENT BETWEEN CONSULTANT AND:

State _____ County XX Township _____

City _____ Other _____

4. METHOD OF FINANCING:

Engineering: County road and 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.

Remarks: _____

7. JOURNALIZED SPEED LIMIT:

Road: Blue Rock Road & Livingston Road – 35 mph

8. TYPICAL SECTIONS/NUMBER OF LANES:

See Additional Information sheet.

Salvage Existing Pavement: XX

Curbs: _____ 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: _____

9. ALIGNMENT:

Existing alignment is to be basically followed.

10. PROFILE:

Profile is to be modified as recommended in Corridor Study and/or as may be necessary to achieve required sight distances, establish/maintain adequate drainage patterns, etc.

11. SIGNAGE:

Phase A: _____

Phase B: XX

12. SIGNALS:

Existing Signals:

To be Modified: _____ To be Replaced: _____

Proposed (New) Signals:

Locations: Blue Rock Road and Livingston Road, if warranted.

Phase A to recommend locations: _____

Signal Warrants: XX

Phase A: _____

Phase B: XX

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: XX

Type: Thermoplastic at the intersection extending the length of the turn lanes; paint at other locations.

14. DELINEATION:

Delineators: _____

RPMs: _____

15. DRAINAGE:

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

Phase A Preliminary Plan: XX

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: _____

17. MISCELLANEOUS DESIGN CONSIDERATIONS:

Sidewalks: _____

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: _____

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

Temporary Road Plans & Notes by: County _____ Consultant _____

Detour Plan Prepared by: County _____ Consultant _____

Remarks: The maintenance of traffic will be extremely problematic, especially during the construction of the improvements on the south leg of Livingston Road, a dead end road.

At this time, it is presumed that the construction of the improvements on Blue Rock Road will be completed under traffic. The Consultant is to make recommendations regarding the maintenance of traffic on Livingston Road especially the south leg.

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: _____

ALL Utility Companies shall be contacted and **ALL** existing utilities, including house connections, shall be indicated on the plans as required by Section 153.64 O.R.C. (H.B.538). **ALL** utilities shall be furnished with a copy of the preliminary plans for preliminary coordination. A copy of the transmittal letter to each utility company and the response from the utility company shall be submitted 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 XX 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 ()
- Centerline Plat ()
- R/W Summary ()
- Final Right-of-way Plans ()
- R/W & Easement Descriptions ()
- Establishment Plat ()
- Establishment Descriptions ()
- 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.

25. TRAFFIC DATA:

State _____ County XX Consultant XX

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. For the subsurface investigation, the Consultant will be responsible for establishing the required field control and for field locating the boring locations.

27. PRIOR STUDIES:

“New Haven Road/Blue Rock Road/Dry Fork Road Corridor Study” completed by Woolpert.

28. PUBLIC HEARINGS/INFORMATIONAL MEETINGS:

Type of Hearing Required: Public information meeting(s) may be scheduled.

Consultant's Responsibility: Prepare the necessary exhibits and attend the meeting(s) if scheduled.

Exhibits: Required Exhibits will show the proposed location of improvements, the proposed profile and critical and/or typical cross-sections and the preliminary Right-of-way.

ADDITIONAL INFORMATION SHEET

BLUE ROCK ROAD AND LIVINGSTON ROAD

500325

- 1) The limits of the project will be on Blue Rock Road from approximately 450 feet west of Livingston Road to approximately 900 feet east of Livingston Road and on Livingston Road from approximately 400 feet south of Blue Rock Road to approximately 100 feet north of Blue Rock Road. The actual termini of the work along Blue Rock Road will be determined during the design of the project, based upon such factors as the length of the turn lanes, the possible touchdown point or transition area between the proposed profile and the existing profile of the road, etc.

The limits for the project have been revised and extended so that the project will include all of Blue Rock Road from Sheed Road to Galbraith Road. Blue Rock Road in the additional areas will be improved in accordance with the corridor study. From Sheed Road to Livingston Road, the improvements will include widening Blue Rock Road to three lanes. From Livingston Road to Galbraith Road, the improvements will include a minor widening of Blue Rock Road, profile modifications as recommended in the study, the lengthening of the turn lane at Galbraith Road, the modification to the radius at the southeast corner of Galbraith Road and the necessary modifications to the signal at Galbraith Road.

- 2) A left-turn lane is to be constructed on each leg of Blue Rock Road. The Consultant is to determine the length of the turn lanes based upon traffic counts, turning movements, signal timing, etc.

A left-turn lane is also to be constructed on both legs of Livingston Road. The length of the left-turn lane on the north leg is to be as long as possible based upon right-of-way restrictions.

- 3) The Woolpert study recommended curb and gutter sections to be used through the project area. The Consultant shall review and confirm the practicality and/or necessity of utilizing a curbed pavement section in the project. If a curbed pavement section is to be used, the Consultant shall recommend whether a curb and gutter section or a vertical concrete curb section should be used.
- 4) The left-turn lanes shall have a minimum width of eleven (11) feet. 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 and the adjacent, paved berm(s) will have a minimum width of three (3) feet. If a rolled curb and gutter section is used, the lane width adjacent to the curb will have a minimum width of eleven (11) feet. If a vertical curb section is used, the lane width adjacent to the curb will have minimum width of twelve (12) feet.
- 5) As part of the Phase A submittal, the Consultant is to prepare a Traffic Signal Warrant Study for the intersection. If a signal is warranted, the design of the signal will be included as a part of the project improvements.
- 6) The Consultant shall determine the Level of Service (LOS) of the existing intersection under the existing traffic volumes. The Consultant shall also determine the LOS with the proposed improvements under the existing traffic counts, under the projected ten (10) year traffic volumes and under the projected twenty (20) year traffic volumes. *The preliminary calculations and the other information regarding the LOS of the intersection are to be submitted with the Phase A review plans. The final calculations and the other information regarding the LOS of the intersection are to be submitted with the final plans.*

- 7) The maintenance of traffic will be extremely problematic, especially during the construction of the improvements on the south leg of Livingston Road, a dead end road.

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 Consultant shall also work with the Engineer to determine if through traffic is to be detoured during construction. If the Engineer authorizes a detour, the Consultant shall work with the Engineer to determine the time duration of the detour and with the Engineer's Traffic Department to determine the detour route. The necessary items of work are to be submitted with the final review submission.