

HAMILTON COUNTY ENGINEER'S

SCOPE OF SERVICE

1. PROJECT IDENTIFICATION:

Road Name: HUBBLE ROAD Road No: 136

Project No. 500420

2. PROJECT INFORMATION:

Limits: Construction of an additional lane for eastbound traffic on Hubble Road at the Cheviot Road intersection.

Length: Consultant to determine required length based upon traffic volumes, proposed signal timing, etc..

3. AGREEMENT BETWEEN CONSULTANT AND:

State _____ County XX Township _____

City _____ Other _____

4. METHOD OF FINANCING:

Engineering: Hamilton County road & bridge funds.

Construction: Undetermined 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: Hubble Road – 35 mph; Cheviot Road – 35 mph

8. TYPICAL SECTIONS/NUMBER OF LANES:

See Additional Information sheet.

Salvage Existing Pavement: _____

Curbs: _____ Report to Recommend: XX

Type: _____

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 left-turn lanes shall have a minimum width of eleven (11) feet. The width of the outside, 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 section 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. Interior traveled lanes will have a minimum width of twelve (12) feet.

9. ALIGNMENT:

Existing alignment is to be basically followed. The majority of the proposed widening will be located on the south side of Hubble Road.

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: XX

12. SIGNALS:

Existing Signals:

To be Modified: _____ To be Replaced: XX

Remarks: See Additional Information sheet.

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: XX

Type: Thermoplastic.

14. DELINEATION:

Delineators: _____

RPMs: _____

15. DRAINAGE:

Drainage Criteria: State _____ County XX Public Works _____

Other _____

Phase A Preliminary Plan: _____

Existing: Surface XX Closed XX

Proposed: Surface _____ Closed XX

Special Flood Hazard Area (SFHA): _____

Storm Water Pollution Prevention Plan: _____

Flood Plain Study Required: _____

Channel Change Study Required: _____

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: 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, 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 shall be prepared.

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: _____

25. TRAFFIC DATA:

State _____ County XX Consultant _____

Remarks: The County will supply information on existing counts if this information is currently on file. The Consultant shall determine if adjustments to these counts are warranted or if additional counts are required. The Consultant will be responsible for the adjustments or for the additional counts. 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. The 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:

North Bend Road/Cheviot Raod Corridor study completed by Parsons Brinckerhoff, dated August 2003.

28. PUBLIC HEARINGS/INFORMATIONAL MEETINGS:

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

HUBBLE ROAD

500420

- 1) The left-turn lane on Hubble Road shall have a minimum width of eleven (11) feet. The width of the right-turn lane and the westbound, traveled lane will be determined by the edge treatment recommended by the Consultant. If curbs are not used, the lanes 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 section 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.
- 2) The Consultant shall note the minimum design criteria above for intersection radii. The Consultant shall verify that the radius on the proposed southwest corner of Hubble Road and Cheviot Road is sufficient to accommodate school buses and other large trucks without forcing the vehicles into another lane or over the pavement edge or curb.
- 3) The existing traffic signal controller is to be saved and utilized in the proposed improvements. All other existing traffic signal materials, i.e. wires, detectors, lamps, shall be totally removed and replaced with new equipment. The improvement shall include improved vehicle detection on all legs of the intersection. A 5-section signal head shall be installed on the south leg of Cheviot Road, i.e. for northbound traffic. The Consultant shall determine the signal timing based upon traffic volumes, turning movements, storage lengths, etc. The existing school flashers are also operated from the controller and provisions must be made in the design to continue this operation.