

HINES HILL ROAD AND VALLEY VIEW ROAD SIDEWALK IMPROVEMENTS

TABLE ONE - ALTERNATIVE RANKING MATRIX FOR VALLEY VIEW RD FROM HINES HILL RD TO MIDDLETON RD

RANKING CATEGORY	Weighting Factor ¹	ALTERNATIVE NO. 1A (WEST)			ALTERNATIVE NO. 1B (EAST)		
		Comments	Raw Score ¹	Weighted Score	Comments	Raw Score ¹	Weighted Score
Construction Cost	5	400' of swales needed. 1,900' of ditch needed. 1,150' of curb needed. 645 sq ft of retaining walls. 31' of handrail needed. 2,500' of proposed storm sewer. Estimated Construction Cost = \$1,405,751 - \$1,827,477	2	10	2,590' of swales needed. 450' of curb needed. 570 sq ft of retaining walls. 31' of handrail needed. 3,000' of proposed storm sewer. Full-height headwall will need to be relocated and the 3' x 3' box culvert will need to be extended. Estimated Construction Cost = \$1,520,133 - \$1,976,173	1	5
Connectivity	5	Connects to Connecticut Woods (9 households).	1	5	Connects to Connecticut Colony (87 households).	3	15
Safety	5	The majority of the corridor has a 6' buffer between the sidewalk and Valley View Road. There will need to be a mid block crossing for residents of Connecticut Colony to reach the sidewalk. The sidewalk will be on the same side of the road as the sidewalk being constructed on Valley View Road from Hunting Hollow Drive to Hines Hill Road.	1	5	The majority of the corridor has a 6' buffer between the sidewalk and Valley View Road. There will need to be a mid block crossing for residents of Connecticut Woods to reach the sidewalk. The sidewalk will be on a different side of the road as the sidewalk being constructed on Valley View Road from Hunting Hollow Drive to Hines Hill Road.	2	10
ROW Impacts - Impacts to Residents	4	There is 2,175' of grading beyond the right of way which will require a work agreement. 854' of private fence will need to be removed. 2 privately owned landscaping lights and rocks will need to be removed. There is 100' of right of way that will need to be purchased.	1	4	There is 2,965' of grading beyond the right of way which will require a work agreement. 999' of private fence will need to be removed. 1 privately owned address pole that will need removed. There is 100' of right of way that will need to be purchased.	1	4
Environmental Impacts - Specifically Wetland, FEMA & Tree Impacts	5	There are 4 trees that will need removed.	3	15	There are 29 trees that will need removed. There are 0.005 acres of jurisdictional ditch impacts.	1	5
Utility Impacts	4	Utilities that will need relocated: 4 public signs, 12 mailboxes, 4 catch basins, 1 manhole, 4 utility poles, 3 electric boxes Utilities that will need adjusted to grade: 3 sanitary manholes There are 7 existing utility poles with proposed grading around them. The existing sanitary sewer line is on this side of the road.	1	4	Utilities that will need relocated: 7 public signs, 6 mailboxes, 2 catch basins, 1 manhole, full height headwall Utilities that will need adjusted to grade: 2 gas valves There are 18 existing utility poles with proposed grading around it.	2	8
Schedule	3	No difference in schedule.	0	0	No difference in schedule.	0	0
TOTAL			43		47		
OVERALL RANK			2		1		

Notes:

1.) Raw score was evaluated on a 1 to 3 scale with "1" being least favorable (or significant concern) and "3" being most favorable (or little to no concern). Alternatives were not ranked relative to one another.

2.) Each ranking category was weighted on a 1 to 5 scale with "1" being of lowest importance and "5" being of highest importance.

HINES HILL ROAD AND VALLEY VIEW ROAD SIDEWALK IMPROVEMENTS

TABLE THREE - ALTERNATIVE RANKING MATRIX FOR HINES HILL RD FROM VALLEY VIEW RD TO GLASTONBURY DRIVE

RANKING CATEGORY	Weighting Factor ¹	ALTERNATIVE NO. 2A (NORTH)			ALTERNATIVE NO. 2B (SOUTH)			ALTERNATIVE NO. 2C (HYBRID)		
		Comments	Raw Score ¹	Weighted Score	Comments	Raw Score ¹	Weighted Score	Comments	Raw Score ¹	Weighted Score
Construction Cost	5	2,465' of swales needed. 300' of curb needed. Higher estimated construction cost than Alternative No. 2B. (Estimate includes replacing sidewalk between Glastonbury Drive and Darrow Road)	1	5	1,895' of swales needed. 350' of handrail needed. 143' retaining wall needed. 550' of curb needed. Lower estimated construction cost than Alternative No. 2A.	2	10	1,770' of swales needed. 250' of handrail needed. 143' retaining wall needed. 550' of curb needed.	2	10
Connectivity	5	Connects to Leighton Estates (107 households).	3	15	Does not directly connect to any subdivisions.	1	5	Connects to Leighton Estates (107 households).	3	15
Safety	5	If pedestrians are on the sidewalk on Valley View Road they will need to cross the road at the intersection of Hines Hill and Valley View Road to reach the sidewalk. The majority of the corridor has a 6' buffer between the sidewalk and Hines Hill Road.	2	10	If the sidewalk is placed on the east side of Valley View Road, pedestrians will not need to cross the road to reach this sidewalk on Hines Hill Road. The majority of the corridor has a 6' buffer between the sidewalk and Hines Hill Road.	2	10	Pedestrians will have to cross the road at a mid-block crossing when the sidewalk changes from the south side to the north side. The majority of the corridor has a 6' buffer between the sidewalk and Hines Hill Road.	1	5
ROW Impacts - Impacts to Residents	4	There is 1,165' of grading beyond the roadway which will require a work agreement with residents. There is 1 wood sign post that encroaches on the ROW and will need removed. There is 620' of private fence that encroaches on the ROW and will need removed.	2	8	There is 3,935' of grading beyond the roadway which will require a work agreement with residents. There is 100' of ROW that will need to be purchased for grading and drainage structures. There is 550' of private fence outside of existing ROW that will need removed.	1	4	There is 2,050' of grading beyond the roadway which will require a work agreement with residents There is 200' of private fence outside of existing ROW that will need removed.	1	4
Environmental Impacts - Specifically Wetland, FEMA & Tree Impacts	5	Sidewalk will encounter 2,638 sq. ft. of wetland. There are 6 trees that will need removed. There are 0.004 acres of jurisdictional stream impacts. Pedestrian bridge will have greater floodway/floodplain impacts.	1	5	Sidewalk will not encounter wetlands. There are 8 trees that will need removed. There are 0.004 acres of jurisdictional stream impacts. Pedestrian bridge will have less floodway/floodplain impacts.	3	15	Sidewalk will not encounter wetlands. There are 8 trees that will need removed. There are 0.004 acres of jurisdictional stream impacts. Pedestrian bridge will have less floodway/floodplain impacts.	3	15
Utility Impacts	4	Utilities that will need relocated: 6 public signs, 1 mailbox, 9 drive pipes, 5 catch basin, 4 guy wires, 3 utility poles Utilities that will need adjusted to grade: 1 storm manhole, 2 catch basins There are 8 existing utility poles with proposed grading around it.	2	8	Utilities that will need relocated: 7 public signs, 15 mailboxes, 4 drive pipes, 3 catch basins, 1 headwall, 1 fire hydrant, rock channel protection, 1 gas valve Utilities that will need adjusted to grade: 1 water valve, 1 catch basin There is 1 existing utility pole with proposed grading around it.	2	8	Utilities that will need relocated: 5 public signs, 8 mailboxes, 6 drive pipes, 1 catch basin, rock channel protection, 1 gas valve Utilities that will need adjusted to grade: 1 catch basin There are 2 utility poles with proposed grading around it.	2	8
Schedule	3	FEMA coordination for floodway/floodway impacts.	1	3	Less FEMA coordination because smaller impact to floodway/floodplain.	2	6	Less FEMA coordination because smaller impact to floodway/floodplain.	2	6
SHPO and Hudson Heritage Association (HHA) Impacts	3	SHPO believes this project will not pose an effect to the house at 1842 Hines Hill Road which is on the national register of historical places.	3	9	SHPO believes this project will not pose an effect to the house at 1842 Hines Hill Road which is on the national register of historical places. The HHA states that the John Brown Farmhouse at 1842 Hines Hill Road has a HHA historical marker. The HHA believes the sidewalk will impact the rural landscape of the farmhouse.	2	6	SHPO believes this project will not pose an effect to the house at 1842 Hines Hill Road which is on the national register of historical places. The HHA states that the John Brown Farmhouse at 1842 Hines Hill Road has a HHA historical marker. With this option, the sidewalk will not be placed on the east end of the property.	2	6
TOTAL			63		64			69		
OVERALL RANK			3		2			1		

Notes:

1.) Raw score was evaluated on a 1 to 3 scale with "1" being least favorable (or significant concern) and "3" being most favorable (or little to no concern). Alternatives were not ranked relative to one another.

2.) Each ranking category was weighted on a 1 to 5 scale with "1" being of lowest importance and "5" being of highest importance.

HINES HILL ROAD AND VALLEY VIEW ROAD SIDEWALK IMPROVEMENTS

TABLE ONE - ALTERNATIVE RANKING MATRIX FOR **VALLEY VIEW RD FROM HUNTING HOLLOW DR TO HINES HILL RD**

RANKING CATEGORY	Weighting Factor ¹	ALTERNATIVE NO. 1A (WEST)			ALTERNATIVE NO. 1B (EAST)		
		Comments	Raw Score ¹	Weighted Score	Comments	Raw Score ¹	Weighted Score
Construction Cost	5	550' of swales needed. 1,350' of ditch needed. 500' of curb needed. Estimated Construction Cost = \$703,890 - \$915,924	2	10	2,450' of swales needed. 300' of handrail needed. Estimated Construction Cost = \$681,194 - \$886,391	3	15
Connectivity	5	Connects to the Hunt Club of Hudson (42 households).	3	15	Does not directly connect to any subdivisions.	1	5
Safety	5	The sidewalk will be on the same side of the road as the new sidewalk constructed on Valley View Road. This will eliminate the need for crossing Valley View Road near Hunting Hollow Drive. Pedestrians will need to cross Valley View road and/or Hines Hill Road to reach the sidewalk on Hines Hill Road. The majority of the corridor has a 6' buffer between the sidewalk and Valley View Road.	2	10	Residents of the Hunt Club of Hudson and pedestrians on the newly constructed sidewalk south of Hunting Hollow Drive will have to cross Valley View Road to reach this sidewalk. If the sidewalk is placed on the south of Hines Hill Road, a crossing will not be required at the intersection of Hines Hill Road and Valley View Road. The majority of the corridor has a 6' buffer between the sidewalk and Valley View Road.	2	10
ROW Impacts - Impacts to Residents	4	Grading will impact landscaping around the "First Church of Christ, Scientist" sign, the landscaping around 7238 Valley View Road, and 2 private posts. There is 1,125' of grading beyond the roadway which will require a work agreement. There is 646' of private fence that will need to be removed and replaced.	2	8	There is 1,600' of grading beyond the roadway which will require a work agreement with residents. There is 1,415' of ROW that will need to be purchased for the sidewalk, grading and drainage structures. There is 1 bronze statue that encroaches on the ROW and will need removed. There are 4 shrubs and some landscaping at 7153 Valley View Road that are outside of the ROW but will need to be removed for proposed grading. There are 2 rocks at 7255 Valley View Road that are outside of the ROW but will need to be removed for proposed grading.	1	4
Environmental Impacts - Specifically Wetland, FEMA & Tree Impacts	5	Sidewalk will encounter 446 sq. ft. of wetland. There are 9 trees that will need removed. There are 0.002 acres of jurisdictional ditch impacts.	1	5	Sidewalk will encounter 1,116 sq. ft. of wetland. There are 2 trees that will need removed. There are 0.007 acres of jurisdictional ditch impacts.	1	5
Utility Impacts	4	Utilities that will need relocated: 4 public signs, 10 mailboxes, 7 drive pipes, 3 catch basins, 2 yard drains, 3 headwalls, 1 gas valve Utilities that will need adjusted to grade: 1 gas valve There are 2 existing utility poles with proposed grading around them.	2	8	Utilities that will need relocated: 3 public signs, 9 mailboxes, 6 guy wires, 11 drive pipes, 1 catch basin, 8 utility poles, 2 gas valves There are 14 existing utility poles with proposed grading around it.	1	4
Schedule	3	No difference in schedule.	0	0	No difference in schedule.	0	0
SHPO and Hudson Heritage Association (HHA) Impacts	3	SHPO believes this project will not pose an effect to the house at 7238 Valley View Road which may be on the national register of historical places. The HHA states that the house at 7238 Valley View Road has a HHA historical marker and because the house sits close to the road, the sidewalk will have a visual impact on the house.	2	6	SHPO believes this project will not pose an effect to the house at 7238 Valley View Road which may be on the national register of historical places. The HHA states that the house at 7153 Valley View Road has a HHA historical marker. This house sits farther back so the sidewalk will create less of a visual impact.	3	9
TOTAL OVERALL RANK			62 1		52 2		

Notes:

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2.) Each ranking category was weighted on a 1 to 5 scale with "1" being of lowest importance and "5" being of highest importance.