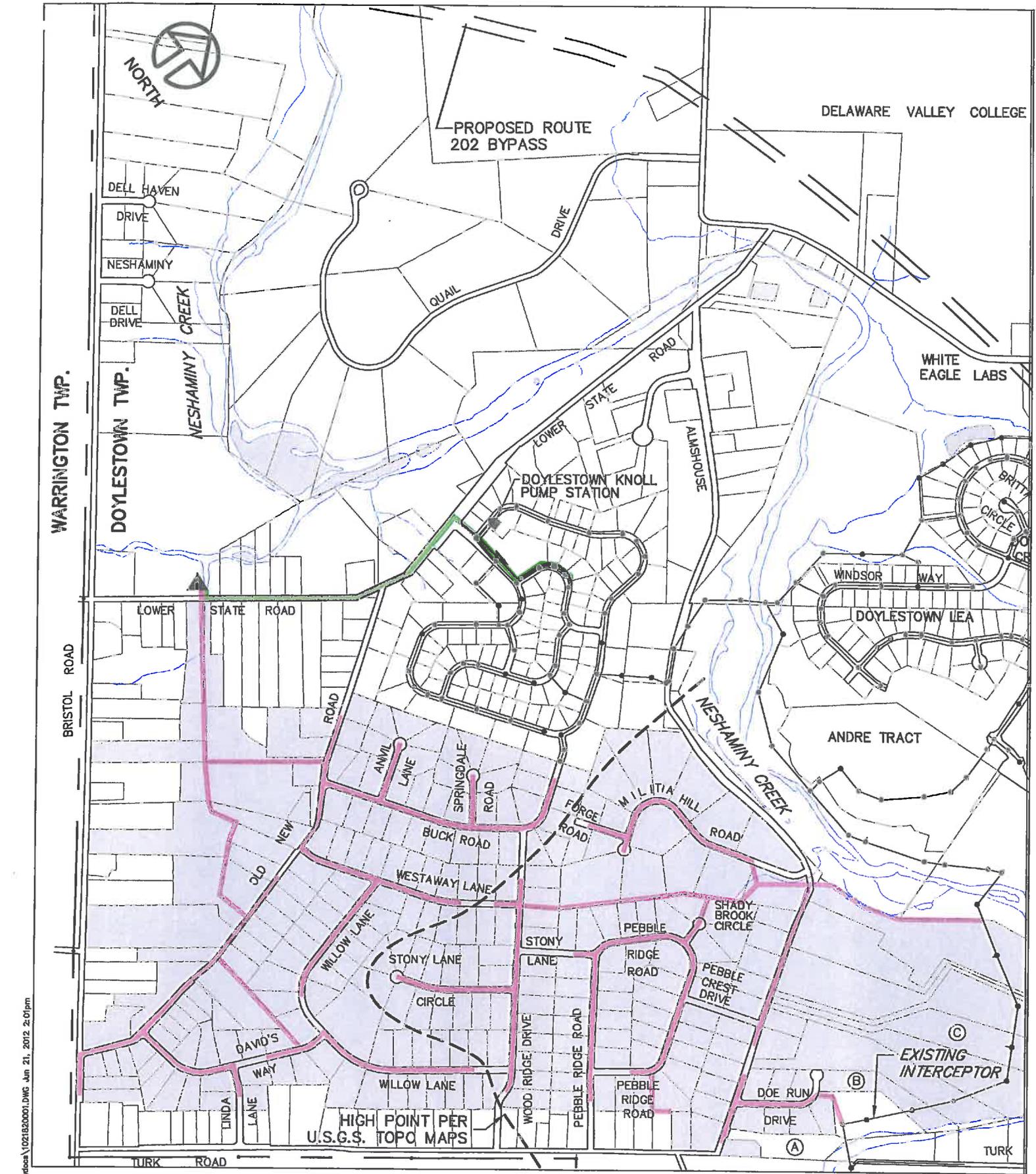


**PEBBLE RIDGE AREA SEWER EXTENSION  
OPINION OF PROBABLE COSTS  
(UPDATED ON 6/21/12)**

<u>NO.</u>	<u>ITEM</u>	<u>UNITS</u>	<u>QUANTITY</u>	<u>UNIT PRICE</u>	<u>TOTAL PRICE</u>
1	10" DIP	LF	6,860	\$ 53.00	\$ 363,580.00
2	8" DIP	LF	3,000	\$ 48.00	\$ 144,000.00
3	8" PVC	LF	23,000	\$ 21.00	\$ 483,000.00
4	6" PVC (laterals)	LF	5,140	\$ 18.00	\$ 92,520.00
5	Manholes	EA	70	\$ 1,800.00	\$ 126,000.00
6	MH Frames & Covers	EA	70	\$ 421.00	\$ 29,470.00
7	Cleanout Fittings	EA	257	\$ 235.00	\$ 60,395.00
8	Stone Bedding	LF	41,500	\$ 8.50	\$ 352,750.00
9	Stone Backfill	LF	30,915	\$ 14.00	\$ 432,810.00
10	Concrete Encasement	LF	1,500	\$ 45.00	\$ 67,500.00
11	Rock Excavation	CY	7,392	\$ 75.00	\$ 554,400.00
12	Temporary Pavement Restoration	LF	30,130	\$ 10.00	\$ 301,300.00
13	Permanent Pavement Restoration	LF	4,217	\$ 55.00	\$ 231,935.00
14	Lawn Restoration	LF	10,585	\$ 5.00	\$ 52,925.00
15	Silt Fence	LF	10,585	\$ 1.00	\$ 10,585.00
16	Creek Crossing	EA	4	\$ 7,000.00	\$ 28,000.00
17	Pump Station	LS	1	\$ 300,000.00	\$ 300,000.00
18	6" Force Main	LF	3,500	\$ 21.00	\$ 73,500.00
19	Air Release Chamber	EA	3	\$ 4,240.00	\$ 12,720.00
20	Connect to Existing Manhole	EA	2	\$ 2,120.00	\$ 4,240.00
21	Driveway Restoration	LF	785	\$ 37.00	\$ 29,045.00
22	6' Doghouse Manhole at Interceptor	LS	1	\$ 8,000.00	\$ 8,000.00
Subtotal (Public Construction Cost)					\$ 3,758,680.00
Construction Contingency (10%)					\$ 375,870.00
Engineering, Legal, Administration and Easements (30%)					\$ 1,127,600.00
Total Public Construction Cost					\$ 5,262,150.00
Public Cost per EDU (based on 257 EDU's)					\$ 20,480.00
Private Cost per EDU (Lateral and Connection)					\$ 1,500.00
Collection Sewer System Tapping Fee (per EDU)					\$ 4,700.00
Total Overall Project Cost per EDU					\$ 26,680.00

Notes:

- a) Private Construction Costs (lateral installation) based on estimate of 75 feet between right-of-way and house.
- b) Only permanent road restoration of state-owned roads is included. It is understood the Township will perform repaving of all other roads.
- c) Costs for additional conveyance/treatment capacity are not included, due to following:  
0.06 MGD (257 edu x 250 gpd/edu) is required in available treatment capacity for this project. Green St. WWTP has ample capacity, but is limited by Castle Valley Diversion Pump Station (CVDPS). CVDPS has 0.04 MGD available pumping capacity based on average flow. The extra 0.02 MGD can be treated at Kings Plaza WWTP. No costs are included for CVDPS upgrade at this time.



S:\mynodes\1021820001.DWG Jun 21, 2012 2:01pm

**LEGEND**

- PROPOSED GRAVITY SEWER
- PROPOSED FORCE MAIN
- EXISTING GRAVITY SEWER
- PROPOSED SERVICE AREA
- ▲ PROPOSED PUMP STATION

- (A) PROPERTY WAS TO BE SERVED BY THIS PROJECT, BUT EXCLUDED SINCE ALREADY CONNECTED TO BCWSA SEWER.
- (B) PROPERTY WAS NOT TO BE SERVED BY THIS PROJECT, BUT ADDED SINCE NOT YET CONNECTED TO BCWSA SEWER.
- (C) PROPERTY WAS TO BE SERVED BY THIS PROJECT (AND IS IN EDU COUNT), BUT POSSIBLY ALREADY CONNECTED.

**PEBBLE RIDGE AREA  
SEWER EXTENSION**  
DATED 6-21-12