ALLVIEW DRIVE STREAM RELOCATION
MITIGATION SITE B
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS
CAPITAL PROJECT S-6175

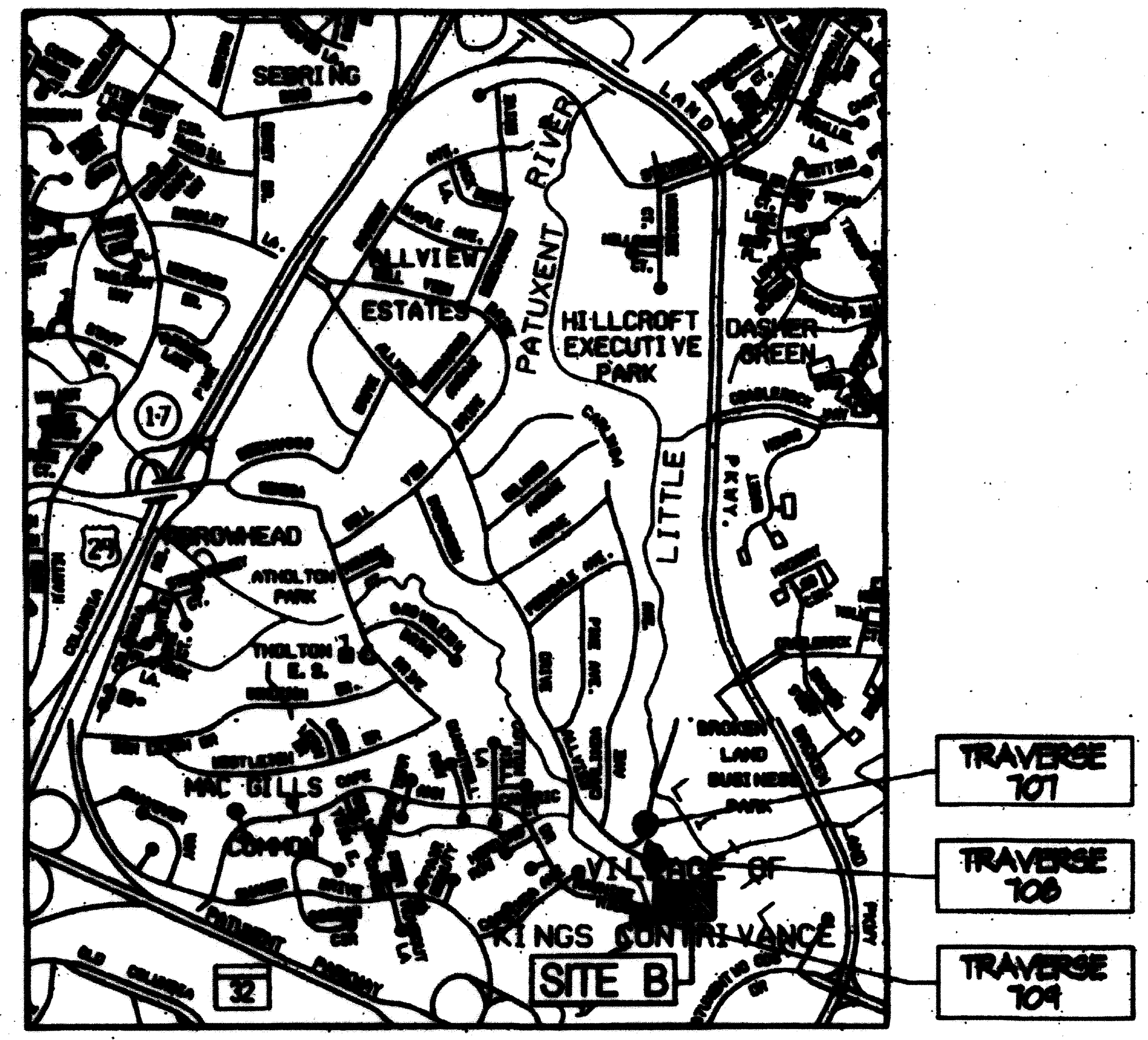
AS-BUILT SURVEY
INDEX OF SHEETS

SHEET NO.	DESCRIPTION
(1) 1	TITLE SHEET
2	GEOMETRY SHEET
(2) 3	PROFILE SHEET
(3) 4	GRADING PLAN
5	TYPICAL CROSS SECTIONS
6	STREAM DETAILS AND TYPICAL SECTIONS
7	STREAM DETAILS AND TYPICAL SECTIONS
(4) 8	SITE B ACCESS PLAN
9	EROSION & SEDIMENT CONTROL PHASE I & II
10	EROSION & SEDIMENT CONTROL PHASE III & IV
11	EROSION & SEDIMENT CONTROL PHASE V & VI
12	EROSION & SEDIMENT CONTROL DETAILS
13	EROSION & SEDIMENT CONTROL NOTES & DETAILS
14	EROSION & SEDIMENT CONTROL DETAILS
15	LANDSCAPE PLAN
16	LANDSCAPE NOTES AND DETAILS

LEGEND

- LIMIT OF DISTURBANCE — LOD
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- PROPOSED MAJOR CONTOURS
- PROPOSED MINOR CONTOURS
- EXISTING 100 YEAR FLOODPLAIN
- PROPOSED 100 YEAR FLOODPLAIN
- EDGE OF TREELINE
- WATERS OF THE US — WUS
- WETLAND
- PROPERTY LINE
- EXISTING ROAD EDGE
- EXISTING SEWER LINE
- EXISTING SEWER MANHOLE
- IMBRICATED BANK PROTECTION
- STONE TOE PROTECTION (STP)
- BURIED STONE TOE PROTECTION
- GRADE CONTROL
- GRADE CONTROL KEY-IN
- NATURAL FIBER MATTING
- EXISTING RIPRAP
- EXISTING GABION BASKETS
- SANDBAG DAM
- PUMP — PUMP
- SUMP PIT — SP
- SILT FENCE — SF
- PIPE SLOPE DRAIN — PSD
- STABILIZED CONSTRUCTION ENTRANCE
- EXISTING FENCE
- SEWER EASEMENT LINE
- EXISTING TREE TO BE REMOVED

VICINITY MAP



0 1000 2000 FEET
SCALE

NORTH

GENERAL NOTES

1. THE SUBJECT PROPERTIES ARE ZONED NT PER FEBRUARY 2, 2004 COMPREHENSIVE ZONING PLAN AND THE COMP-LITE ZONING AMENDMENTS DATED 7/28/2006.
2. THE DEPARTMENT OF PLANNING AND ZONING AND THE HOWARD SOIL CONSERVATION DISTRICT HAVE DETERMINED THAT THE DISTURBANCES WITHIN THE 100-YEAR FLOODPLAIN, WETLANDS, STREAM AND REQUIRED BUFFERS FOR THE PROPOSED STREAM RESTORATION PROJECT ARE CONSIDERED ESSENTIAL OR NECESSARY IN ACCORDANCE WITH SECTIONS 16.115(C) AND 16.116(C) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS.
3. THIS PROJECT IS NOT A SUBDIVISION, AND THEREFORE THIS PLAN IS NOT REQUIRED TO MEET THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
4. THERE ARE NO BURIAL GROUNDS OR CEMETERY SITES LOCATED ON THE PROJECT SITE.
5. THIS PLAN MEETS THE REQUIREMENTS OF THE FOREST CONSERVATION REGULATIONS.
6. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH HOWARD COUNTY VOLUME IV DESIGN MANUAL STANDARDS, SPECIFICATIONS, AND DETAILS FOR CONSTRUCTION AND THE LATEST VERSIONS OF MARYLAND WATERWAY CONSTRUCTION GUIDELINES AND MDE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL REFERENCED HEREIN.
7. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS, BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 24 HOURS IN ADVANCE OF ANY WORK BEING DONE.
8. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
9. THE COORDINATES SHOWN HEREON ARE BASED ON HOWARD COUNTY GEODETIC CONTROL, WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY CONTROL POINTS 707, 708, AND 709 WERE USED FOR THIS SITE.
10. WATER IS PUBLIC.
11. SEWER IS PUBLIC.
12. STORMWATER MANAGEMENT IS NOT REQUIRED FOR THIS PROJECT SINCE THE PROJECT WILL NOT ADD IMPERVIOUS AREA NOR WILL IT CHANGE THE EXISTING HYDROLOGY OF THE SITE.
13. EXISTING UTILITIES ARE BASED ON FIELD SURVEYS AND AVAILABLE RECORD DRAWINGS.
14. THE PROJECT HYDROLOGY AND HYDRAULICS STUDY WAS PREPARED BY KCI TECHNOLOGIES, INC. JULY 2011 TO DEMONSTRATE NO RISE IN THE 100-YR FLOODPLAIN.
15. THE WETLANDS DELINEATION FOR THIS PROJECT WAS PERFORMED BY KCI TECHNOLOGIES IN FEBRUARY 2007.
16. THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD RUN SURVEY WITH ONE FOOT CONTOUR INTERVALS PREPARED BY [illegible] AND ASSOCIATES IN 2006 AND 2007.
17. ALL WORK SHALL BE CONSTRUCTED ACCORDING TO THE REQUIREMENTS OF THE NONTIDAL WETLANDS AND WATERWAYS PERMIT APPROVED OCTOBER 16, 2008 (MDE TRACKING #07-NT-[illegible]) AND WQC PERMIT [illegible] (HOWARD CO. DPW/LITTLE PATUXENT PARALLEL SEWER INTERCEPTOR) 2007-[illegible] ISSUED ON OCTOBER 16, 2008.
18. NO TRAFFIC STUDY IS REQUIRED FOR THIS PROJECT.
19. CONSTRUCTIONS SHOWN ON THIS DRAWING ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND KCI TECHNOLOGIES, INC. DOES NOT WARRANT OR GUARANTEE THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION GIVEN. SHOULD THE CONTRACTOR DISCOVER ANY DISCREPANCIES BETWEEN THE PLANS AND THE FIELD CONDITIONS, THE CONTRACTOR MUST VERIFY SUCH INFORMATION TO HIS OWN SATISFACTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY TO RESOLVE THE SITUATION. SHOULD THE CONTRACTOR MAKE FIELD CORRECTIONS OR ADJUSTMENTS WITHOUT NOTIFYING THE ENGINEER, THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR THOSE CHANGES.
20. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO THE CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
21. DEPARTMENT OF PLANNING AND ZONING WAIVER PETITION WP-09-[illegible] APPROVED ON JANUARY 8, 2010.
22. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING / CONSTRUCTION INSPECTION DIVISION (410) 313-1880 AT LEAST SEVEN (7) DAYS PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL NOTIFY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) NON-TIDAL WETLANDS AND WATERWAYS INSPECTIONS, WATER MANAGEMENT ADMINISTRATION (410) 537-3510 AT LEAST FIVE (5) DAYS PRIOR TO BEGINNING OF ANY WORK.
23. OBTAIN GRADING PERMIT AND OTHER NECESSARY PERMITS FOR CONSTRUCTION FROM THE COUNTY AT THE PRE-CONSTRUCTION MEETING. STREAM CLOSURE PERIOD IS FROM MARCH 1 TO JUNE 15, INCLUSIVE. NONTIDAL WETLANDS AND WATERWAYS PERMIT APPROVED OCTOBER 16, 2008 (MDE TRACKING #07-NT-[illegible]) AND WQC PERMIT [illegible] (HOWARD CO. DPW/LITTLE PATUXENT PARALLEL SEWER INTERCEPTOR) 2007-[illegible] ISSUED ON OCTOBER 16, 2008.
24. ALL NECESSARY EASEMENTS OR RIGHTS-OF-ENTRY SHALL BE SECURED PRIOR TO THE START OF THE PROJECT.
25. THE CONTRACTOR SHALL COORDINATE AN ON-SITE PRE-CONSTRUCTION MEETING WITH THE COUNTY PROJECT MANAGER, MARYLAND DEPARTMENT OF THE ENVIRONMENT REPRESENTATIVE, HOWARD COUNTY CONSTRUCTION INSPECTION REPRESENTATIVE, AND BUREAU OF UTILITIES REPRESENTATIVE.
26. THE CONTRACTOR AND ITS DRIVERS SHALL TAKE EXTRA PRECAUTION WHEN DRIVING AND HAULING MATERIALS ON THE ACCESS ROAD, SITE AREAS AND OVER THE TEMPORARY ACCESS BRIDGE AND CHANNEL TO MINIMIZE IMPACT TO EXISTING FEATURES, SUCH AS TREES, WETLANDS, U.S. WATERS, THE STREAM BED AND CHANNEL SLOPES AND NEWLY CONSTRUCTED FEATURES.

ADC MAP COORD. 15 H10 AND H12
THE HORIZONTAL AND VERTICAL DATUM SHOWN HEREON ARE BASED ON GPS OBSERVATIONS FROM THE FOLLOWING H.C.G. TRAVERSE POINTS
HORIZONTAL NAD 1983/91
VERTICAL NAVD 1988

HOWARD COUNTY CONTROL POINTS

	NORTHING	EASTING	ELEVATION
707	1300044.687	881772.776	276.788
708	1300[illegible].302	881444.416	273.188
709	1300[illegible].65	880947.87	276.39

THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SCD — 3/20/12 DATE

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 38311, EXPIRATION DATE: JANUARY 08, 2014

3/2/12

ENGINEER'S CERTIFICATE

"I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT."

P.E. # 38311 — 3/2/12 DATE
SIGNATURE OF ENGINEER (PRINT NAME BELOW SIGNATURE)
KATHY L. HOVERMAN, PE

DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE THE BEGINNING OF THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT."

3/5/12 DATE
SIGNATURE OF DEVELOPER (PRINT NAME BELOW SIGNATURE)

AS-BUILT SURVEY CERTIFICATION

I HEREBY CERTIFY THAT THIS AS-BUILT SURVEY IS AN ACCURATE REPRESENTATION OF THE LOCATIONS AND ELEVATIONS IN THE FIELD AS OF JANUARY 15, 2013.

THE UNDERSIGNED, BEING A LICENSED SURVEYOR IN THE STATE OF MARYLAND, PERSONALLY PREPARED OR WAS IN RESPONSIBLE CHARGE OF THE PREPARATION AND THE SURVEY WORK REFLECTED IN THIS AS-BUILT SURVEY, IN COMPLIANCE WITH THE REQUIREMENTS SET FORTH IN "COMAR" TITLE 09, SUBTITLE 13, CHAPTER 06, REGULATION .12.

ROBERT A. KUNDRICK
MARYLAND LICENSED PROFESSIONAL LAND SURVEYOR

11046
LICENSE NUMBER
EXPIRATION DATE AUGUST 16, 2013

JANUARY 23, 2013
DATE

ENGINEER'S AS-BUILT CERTIFICATION

"I HAVE PERSONALLY OBSERVED AND INSPECTED THE CONSTRUCTION OF THIS STREAM RESTORATION PROJECT. I HAVE ALSO REVIEWED THE AS-CONSTRUCTED CONDITIONS DEPICTED ON THIS AS-BUILT SURVEY. I HEREBY CERTIFY THAT THE STREAM RESTORATION CONSTRUCTION MEETS THE DESIGN INTENT OF THIS PROJECT AND/OR THE CONSTRUCTION IS WITHIN THE ACCEPTED TOLERANCES AS NOTED ON THE PLANS AND WITHIN THE SPECIAL PROVISIONS."

SIGNATURE OF ENGINEER — P.E. # 38311 — 3/13/13 DATE
KATHY L. HOVERMAN, PE

STATE OF MARYLAND — KATHY LYNN HOVERMAN — No. 38311 — PROFESSIONAL ENGINEER

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS — 3/12/12 DATE
CHIEF, BUREAU OF ENGINEERING — 3/5/12 DATE
CHIEF, BUREAU OF UTILITIES — DATE
CHIEF, UTILITY DESIGN DIVISION — 3/5/12 DATE

KCI TECHNOLOGIES
ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS
936 RIDGEBROOK ROAD, SPARKS, MARYLAND 21152

DES: MDT/KLH
DRN: JMS
CHK: KLH
DATE: FEBRUARY 2012

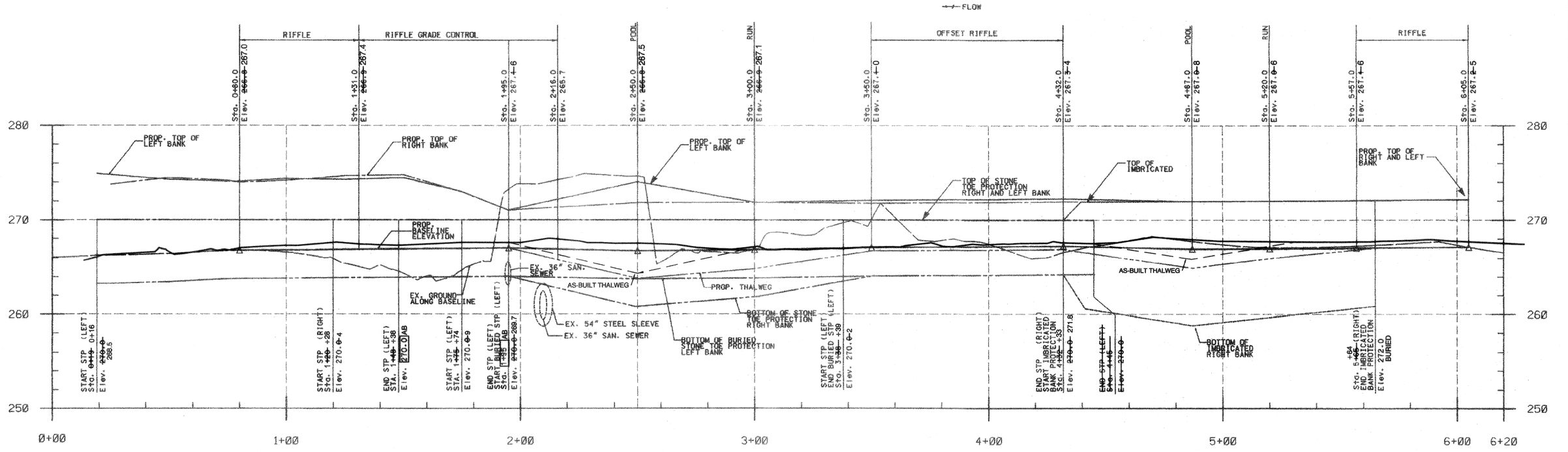
BY	NO.	REVISION	DATE
GPI	1	AS-BUILT SURVEY	1/23/13

800' SCALE MAP NO. ______ BLOCK NO. ______

AS-BUILT SURVEY
TITLE SHEET

ALLVIEW DRIVE STREAM RELOCATION
MITIGATION SITE B
CAPITAL PROJECT No. S-6175
CONTRACT No. 20-4736
ELECTION DISTRICT NO. 6 HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN
SHEET AB 1 OF 4
1 OF 16



STATE OF MARYLAND
KEVIN L. KLINGENSMITH
No. 38311
PROFESSIONAL ENGINEER

3/2/12

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME , AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 38311. EXPIRATION DATE: JANUARY 06, 2014

LEGEND

EXISTING GROUND ALONG BASELINE

PROPOSED BASELINE ELEVATION

PROPOSED LEFT TOP OF BANK

PROPOSED RIGHT TOP OF BANK

PROPOSED THALWEG (WHEN OFFSET FROM BASELINE)

STONE TOE PROTECTION EXTENT

IMBRICATED BANK PROTECTION EXTENT

NOTE:
POOL AND RUN SECTIONS OCCUR AT SPECIFIC LOCATIONS.
RIFFLES EXTEND BETWEEN A RANGE OF STATIONS. TRANSITIONS BETWEEN EACH PRESCRIBED CROSS SECTION TYPE SHALL BE SMOOTH AND MEET THE PROPOSED CONTOURS SHOWN ON THE PROFILE AND PLAN VIEWS.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS — DATE 3/12/12

CHIEF, BUREAU OF UTILITIES — DATE 3/5/12

CHIEF, BUREAU OF ENGINEERING — DATE 3/5/12

CHIEF, UTILITY DESIGN DIVISION — DATE 3/5/12

KCI TECHNOLOGIES
ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS
936 RIDGEBROOK ROAD
SPARKS, MARYLAND 21152
TELEPHONE: (410) 316-7800
FAX: (410) 316-7818

DES: MDT/KLH				
DRN: JMS				
CHK: KLH				
DATE: FEBRUARY 2012	GPI	1	AS-BUILT SURVEY	1/23/13
	BY	NO.	REVISION	DATE

AS-BUILT SURVEY
PROFILE

600' SCALE MAP NO. _____ BLOCK NO. _____

ALLVIEW DRIVE STREAM RELOCATION MITIGATION SITE B

CAPITAL PROJECT No. S-6175
CONTRACT No. 20-4736

ELECTION DISTRICT NO. 6 HOWARD COUNTY, MARYLAND

SCALE
HOR. 1"=20'
VERT. 1"=6'

SHEET
AB
2 OF 4
3 OF 16

PLOTTED: 1/30/34 AM on Wednesday, February 29, 2012
By: Courtney Hogg Division: P:\50 Natural Res. Eng.
FILE: M:\2008\08037795.09\drwings\sct2\sct_B.dgn

LEGEND

- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING SEWER LINE
- EXISTING SEWER MANHOLE (S)
- WATERS OF THE U.S. — WUS —
- TREES > THAN 12"
- WETLAND
- PROPERTY LINES
- SEWER EASEMENT LINE
- PROPOSED COUNTOURS — 270 —
- LIMIT OF DISTURBANCE — LOD —
- STONE TOE PROTECTION (STP)
- BURIED STONE TOE PROTECTION
- IMBRICATED BANK PROTECTION
- GRADE CONTROL
- GRADE CONTROL KEY-IN
- NATURAL FIBER MATTING
- EXISTING RIPRAP
- EXISTING GABION BASKETS
- TOE TRENCH
- TREE TO BE REMOVED

CONCRETE MONITORING BENCHMARK (CMB) TABLE

POINT	NORTHING	EASTING	ELEVATION
150	551266.3630	1354215.2360	275.32
151	550996.4690	1353815.6330	274.52
152	551029.9620	1353742.8100	274.68
153	551132.7350	1353707.3100	274.41
154	551110.9510	1353870.5470	272.67
155	551307.2320	1354130.4360	275.92

NATHAN J. BARTON
REBECCA L. BARTON
L. 5525, F. 242
PB. 6, P. 56
TM. 42, P. 193

LOT 343
L. 3324, F. 191
COLUMBIA ASSOCIATION INC.
VILLAGE OF OWEN BROWN
LOT 343, A RESUBDIVISION OF LOT 339
PLAT 7904
TM. 42, P. 422

LOT 2
COLUMBIA ASSOCIATION INC.
L. 3324, F. 191
VILLAGE OF OWEN BROWN
SECTION 5 AREA #2
PLAT# 9691
2 OF 6
TM. 36, P. 402

TRIBUTARY

TEMPORARY STAGING AREA

PLACE AN ADDITIONAL 35' OF STP ALONG RIGHT BANK OF TRIBUTARY AS DIRECTED BY THE ENGINEER

RESTORE BANKS TO 2:1 SLOPE AND INSTALL NATURAL FIBER MATTING AS DIRECTED BY THE ENGINEER

EXISTING RIPRAP TO BE SALVAGED

KEY IN STONE TOE PROTECTION

RIFFLE GRADE CONTROL TAILOUT (TYP.)

BENDWAY WEIR (TYP.)

GRADE CONTROL

KEY IN STONE TOE PROTECTION

EXISTING GABION BASKET TO BE REMOVED

KEY-IN NATURAL FIBER MATTING BEHIND STONE TOE PROTECTION

INSTALL NATURAL FIBER MATTING ALONG SWALE

KEY-IN MATTING 6" BELOW SURFACE AT TIE-IN TO EXISTING BANK

IMBRICATED STONES

KEY-IN NATURAL FIBER MATTING BEHIND IMBRICATED BANK PROTECTION

INSTALL NATURAL FIBER MATTING ALONG SWALE

EX. SEWER EASEMENT

MAC BIKE TRAIL

WOODED

WEEDS

WOODEN FOOT BRIDGE

Little Patuxent River

CMB#150 CMB#151 CMB#152 CMB#153 CMB#154 CMB#155

N 551250 E 1353750

N 551000 E 1354200

SSMH(12134) TOP: 275.00 INV. C/L BOT.:262.90

SSMH(12160) TOP: 277.04 INV. C/L BOT.:263.24

11783 SPIKENAIL

11795 SPIKENAIL

N:550947.87 E:1353825.05 EL:275.39

N:551237.3306 E:1353976.2600 EL:273.98

TOE TRENCH SCHEDULE

FROM STATION	TO STATION	OFFSET*
2+08	3+50	RIGHT
4+32	5+35	RIGHT

*FACING UPSTREAM, MEASURED FROM BASELINE OF CONSTRUCTION

STONE TOE PROTECTION SCHEDULE

FROM STATION	TO STATION	OFFSET*
~~0+19~~ 16	~~1+48~~ 44	LEFT
~~1+20~~ 28	~~4+32~~ 33	RIGHT
~~1+75~~ 71	~~1+95~~ AB	LEFT
~~3+30~~ 39	~~4+45~~ 5+12	LEFT

*FACING UPSTREAM, MEASURED FROM BASELINE OF CONSTRUCTION

BENDWAY WEIR SCHEDULE

WEIR NO.	BANK STA.**	LENGTH	ANGLE*
1	~~1+23~~ 27	10	69
2	~~1+00~~ AB	15	76
3	~~0+73~~ 74	20	70
4	~~0+43~~ 44	20	70
5	~~0+21~~ 22	20	70

* ANGLE MEASURED FROM BANKLINE TO UPSTREAM WEIR BANK TIE-IN

** BANK STATION MEASURED FROM THE WEIR CENTERLINE AT THE BANK TIE-IN

BURIED STONE TOE PROTECTION SCHEDULE

FROM STATION	TO STATION	OFFSET*
~~1+95~~ AB	~~3+30~~ 39	LEFT

*FACING UPSTREAM, MEASURED FROM BASELINE OF CONSTRUCTION

IMBRICATED BANK PROTECTION SCHEDULE

FROM STATION	TO STATION	OFFSET*
~~4+32~~ 33	~~5+65~~ 66	RIGHT

*FACING UPSTREAM, MEASURED FROM BASELINE OF CONSTRUCTION

NOTES:

1. CONTACTOR SHALL TAKE CARE WHEN OPERATING EQUIPMENTIN THE VICINITY OF THE EXISTING SANITARY SEWER LINES AND MANHOLES. CONTRACTOR SHALL REPAIR ANY DAMAGE TO THE SANITARY SEWER LINES AND MANHOLES AT HIS/HER OWN EXPENSE.
2. ALL BANKS NOT RECEIVING STONE TOE PROTECTION OR IMBRICATED BANK PROTECTION SHALL BE PROTECTED WITH PLACED NATURAL FIBER MATTING PER DETAIL ON SHEET 6.
3. FALLEN TREES AND OTHER DEBRIS IN THE CHANNEL SHALL BE REMOVED AND DISPOSED OF OFF-SITE.
4. THE ENTIRE AREA SHOWN IS WITHIN THE 100-YEAR FLOODPLAIN.

STATE OF MARYLAND — KRISTOPHER L. HOWSMON — No. 38911 — PROFESSIONAL ENGINEER

3/2/12

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME , AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 38911. EXPIRATION DATE: JANUARY 06, 2014

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS — DATE 3/2/12
CHIEF, BUREAU OF ENGINEERING — DATE 3/5/12
CHIEF, BUREAU OF UTILITIES — DATE 2/8/12
CHIEF, UTILITY DESIGN DIVISION — DATE 3/2/12

KCI TECHNOLOGIES
ENGINEERS, PLANNERS, SCIENTISTS, CONSTRUCTION MANAGERS
936 RIDGEBROOK ROAD, SPARKS, MARYLAND 21152
TELEPHONE: (410) 316-7800 FAX: (410) 316-7888

DES: MDT/KLH
DRN: JMS
CHK: KLH
DATE: FEBRUARY 2012

BY	NO.	REVISION	DATE
GPI	1	AS-BUILT SURVEY	1/23/13

AS-BUILT SURVEY
GRADING PLAN

600' SCALE MAP NO. _____ BLOCK NO. _____

ALLVIEW DRIVE STREAM RELOCATION MITIGATION SITE B

CAPITAL PROJECT No. S-6175
CONTRACT No. 20-4736

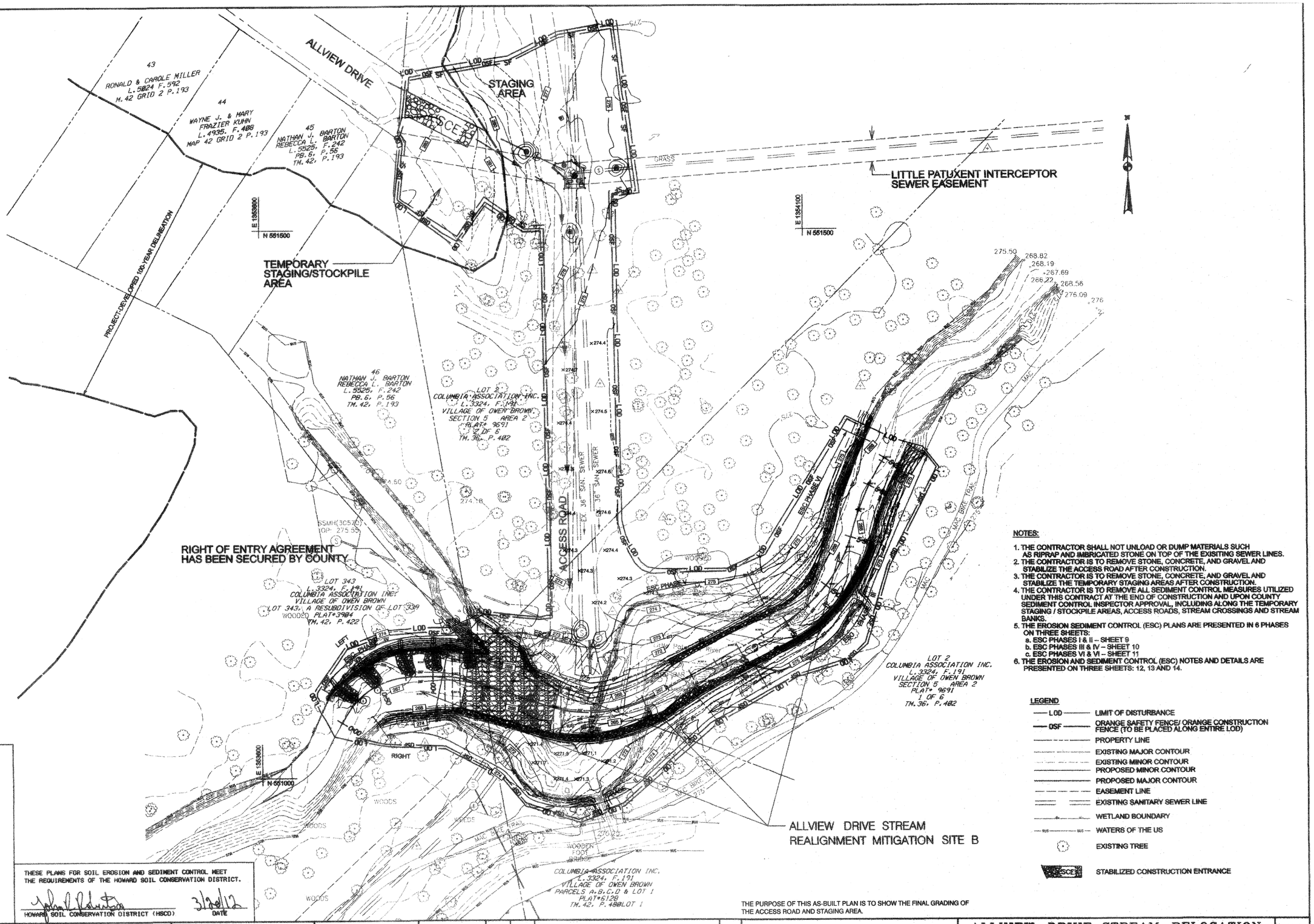
ELECTION DISTRICT NO. 6 HOWARD COUNTY, MARYLAND

SCALE 1" = 20'

SHEET AB 3 OF 4 ~~4~~ 4 OF 16

FP-11-03

PLOTTED: "12:21 PM on Wednesday, February 29, 2012"
BY: Courtney Rupp Division: P050 Natural Res. Eng
FILE: M:\2008\08078\Cad\Grading Land Plan_B.dgn



NOTES:

1. THE CONTRACTOR SHALL NOT UNLOAD OR DUMP MATERIALS SUCH AS RIPRAP AND IMBRICATED STONE ON TOP OF THE EXISITING SEWER LINES.
2. THE CONTRACTOR IS TO REMOVE STONE, CONCRETE, AND GRAVEL AND STABILIZE THE ACCESS ROAD AFTER CONSTRUCTION.
3. THE CONTRACTOR IS TO REMOVE STONE, CONCRETE, AND GRAVEL AND STABILIZE THE TEMPORARY STAGING AREAS AFTER CONSTRUCTION.
4. THE CONTRACTOR IS TO REMOVE ALL SEDIMENT CONTROL MEASURES UTILIZED UNDER THIS CONTRACT AT THE END OF CONSTRUCTION AND UPON COUNTY SEDIMENT CONTROL INSPECTOR APPROVAL, INCLUDING ALONG THE TEMPORARY STAGING / STOCKPILE AREAS, ACCESS ROADS, STREAM CROSSINGS AND STREAM BANKS.
5. THE EROSION SEDIMENT CONTROL (ESC) PLANS ARE PRESENTED IN 6 PHASES ON THREE SHEETS:
   a. ESC PHASES I & II – SHEET 9
   b. ESC PHASES III & IV – SHEET 10
   c. ESC PHASES VI & VI – SHEET 11
6. THE EROSION AND SEDIMENT CONTROL (ESC) NOTES AND DETAILS ARE PRESENTED ON THREE SHEETS: 12, 13 AND 14.

LEGEND

- LOD — LIMIT OF DISTURBANCE
- OSF — ORANGE SAFETY FENCE/ ORANGE CONSTRUCTION FENCE (TO BE PLACED ALONG ENTIRE LOD)
- PROPERTY LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- EASEMENT LINE
- EXISTING SANITARY SEWER LINE
- WETLAND BOUNDARY
- WATERS OF THE US
- EXISTING TREE
- SCE — STABILIZED CONSTRUCTION ENTRANCE

THE PURPOSE OF THIS AS-BUILT PLAN IS TO SHOW THE FINAL GRADING OF THE ACCESS ROAD AND STAGING AREA.

STATE OF MARYLAND — KEVIN LYNN HOOVER — No. 38311 — PROFESSIONAL ENGINEER

3/2/12

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 38311. EXPIRATION DATE: JANUARY 06, 2014

THESE PLANS FOR SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT (HSCD) — DATE 3/20/12

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS — DATE 3/12/12
CHIEF, BUREAU OF UTILITIES — DATE 2/28/12
CHIEF, BUREAU OF ENGINEERING — DATE 3/6/12
CHIEF, UTILITY DESIGN DIVISION — DATE 3/5/12

KCI TECHNOLOGIES
ENGINEERS, PLANNERS, SCIENTISTS, CONSTRUCTION MANAGERS
936 RIDGEBROOK ROAD, SPARKS, MARYLAND 21152
TELEPHONE: (410) 316-7800 FAX: (410) 316-7818

DES: RJK				
DRN: JMS				
CHK: JT / RJK				
DATE: FEBRUARY 2012	GPI	1	AS-BUILT SURVEY	1/23/13
	BY	NO.	REVISION	DATE

AS-BUILT SURVEY
SITE B ACCESS PLAN

600' SCALE MAP NO. _____ BLOCK NO. _____

ALLVIEW DRIVE STREAM RELOCATION MITIGATION SITE B

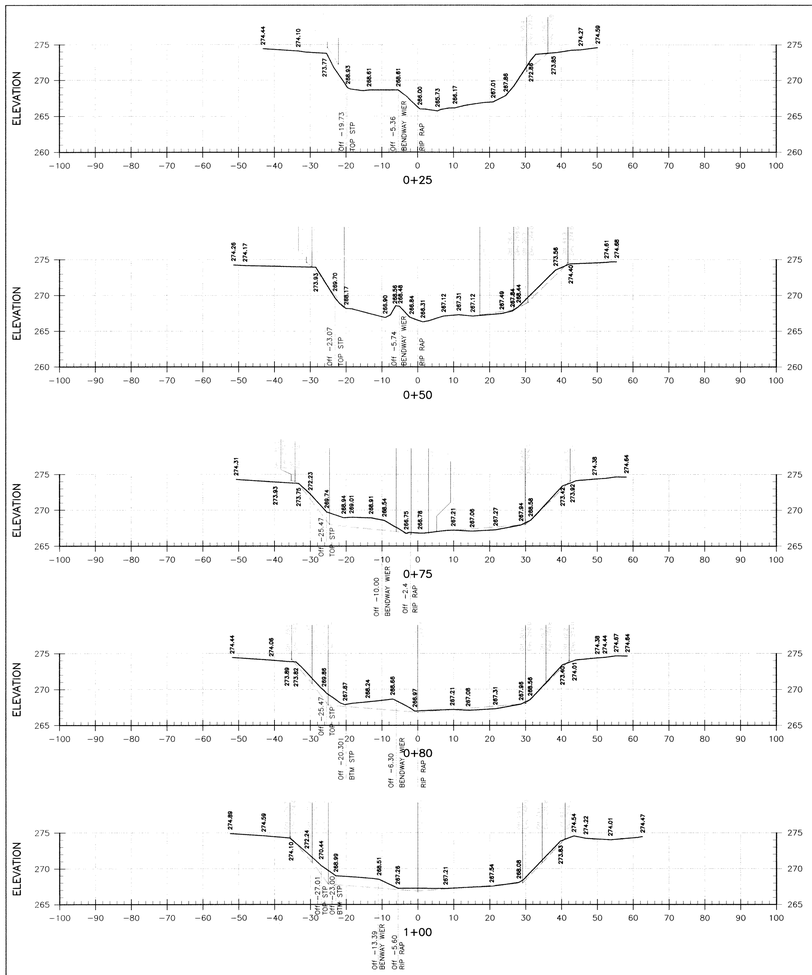
CAPITAL PROJECT No. S-6175
CONTRACT No. 20-4736

ELECTION DISTRICT NO. 6 HOWARD COUNTY, MARYLAND

SCALE 1" = 40'

SHEET AB 4 OF 4 8 OF 16

PLOTTED: "02:54 PM on Wednesday, February 01, 2012"
BY: Christopher Daniel Division: P:\GI Network Files\ESRI\Projects\Howard\Mapping\Site_Plans.mxd
E:\MC3\2009\30057\Plots\Allview Mitigation Site B_AS-BUILT.dgn



AS BUILT CROSS SECTIONS

ALLVIEW DRIVE STREAM RELOCATION MITIGATION SITE B

CAPITAL PROJECT No. S-6175

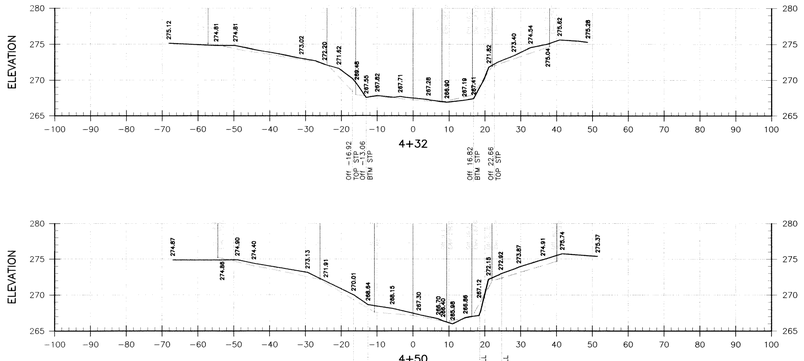
CONTRACT No. 20-4736

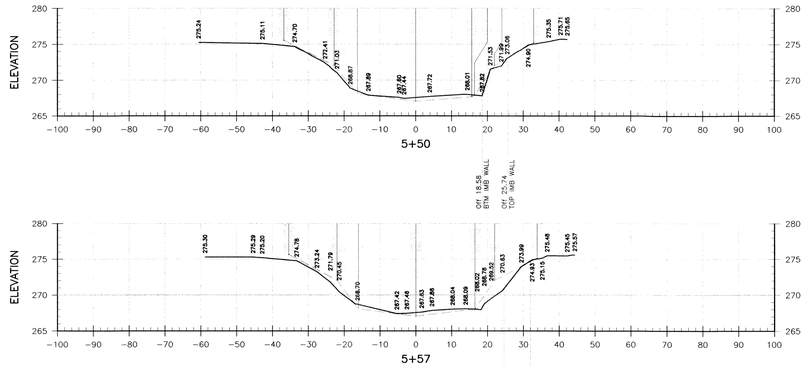
DATE	REVISION

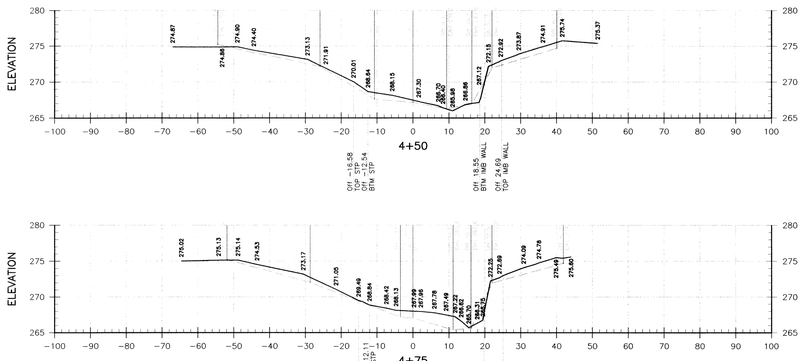
PROJ. MGR.	RAK
DESIGN	N/A
DRAWN	JAK
CHECKED	RAK

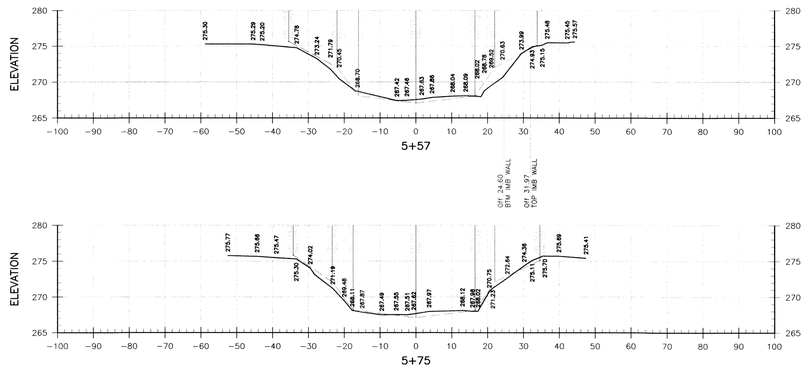
DRAWING NO.	SCALE	DATE	SHEET NO.
2012305.04	20	02/11/2013	1 OF 2

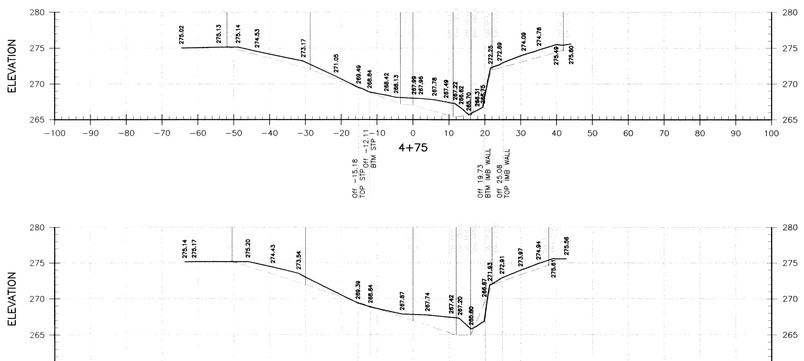
GPI
GREENMAN-PEDERSEN, INC.
ENGINEERS, ARCHITECTS, PLANNERS, CONSTRUCTION ENGINEERS & INSPECTORS
10977 GUILFORD ROAD ANNAPOLIS JUNCTION, MD 20701
WASH. (301) 470-2772 BALT. (410) 880-3055
FAX: (301) 490-2649 www.gpinet.com

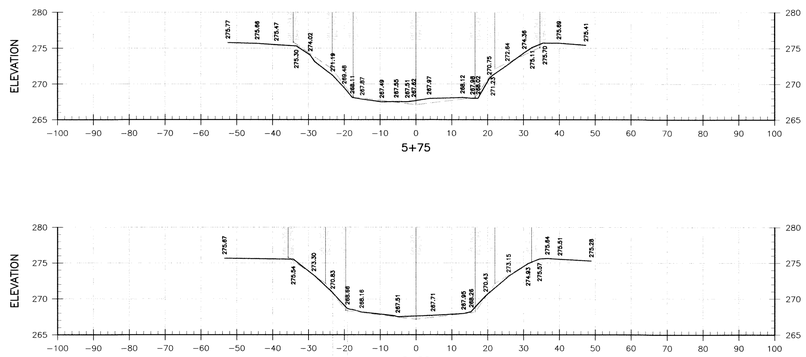


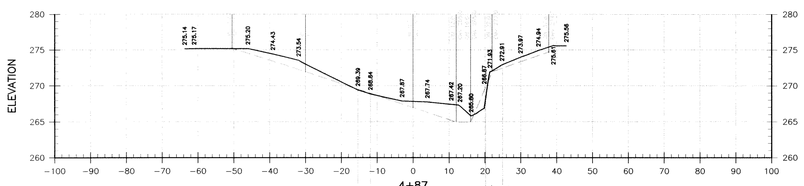


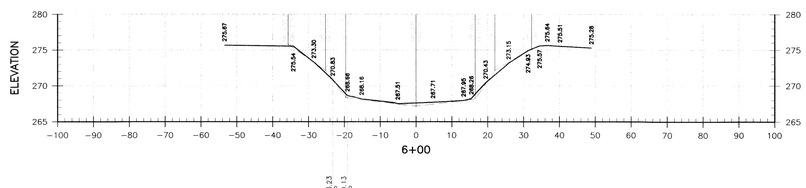


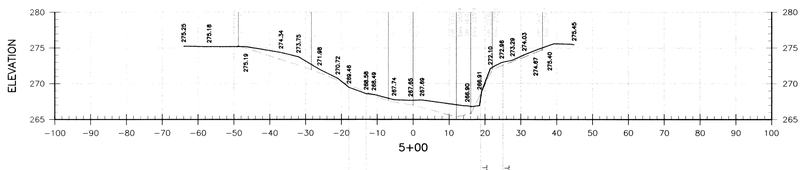


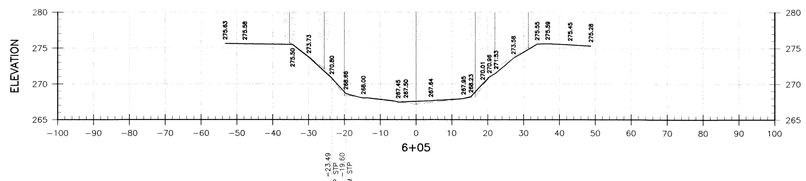


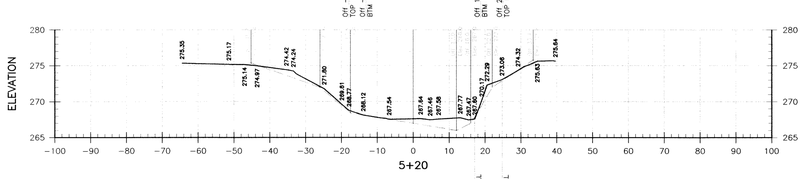


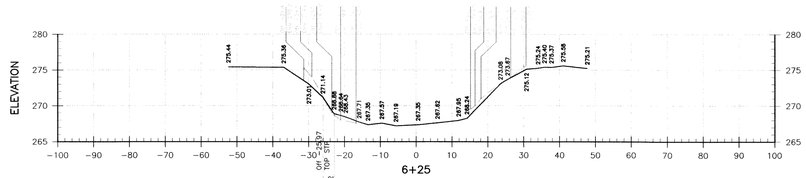


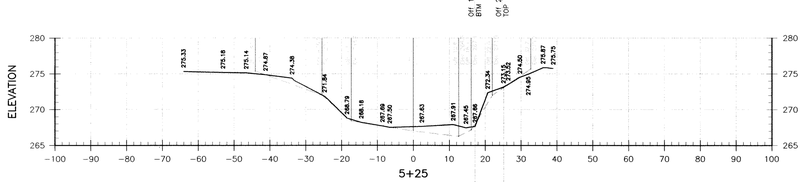


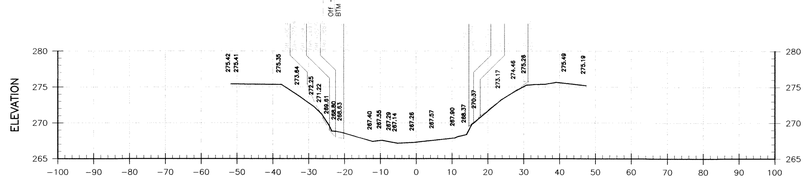












AS-BUILT (1/15/2013)

PROPOSED FINISHED GRADE

AS BUILT CROSS SECTIONS

ALLVIEW DRIVE STREAM RELOCATION MITIGATION SITE B

CAPITAL PROJECT No. S-6175

CONTRACT No. 20-4736

DATE	REVISION

PROJ. MGR.	RAK
DESIGN	N/A
DRAWN	JAK
CHECKED	RAK

DRAWING NO.	SCALE	DATE	SHEET NO.
2012305.04	20	02/11/2013	2 OF 2

GPI
GREENMAN-PEDERSEN, INC.
ENGINEERS, ARCHITECTS, PLANNERS, CONSTRUCTION ENGINEERS & INSPECTORS
10977 GUILFORD ROAD ANNAPOLIS JUNCTION, MD 20701
WASH: (301) 470-2772 BALT. (410) 880-3055
FAX: (301) 490-2649 www.gpinet.com