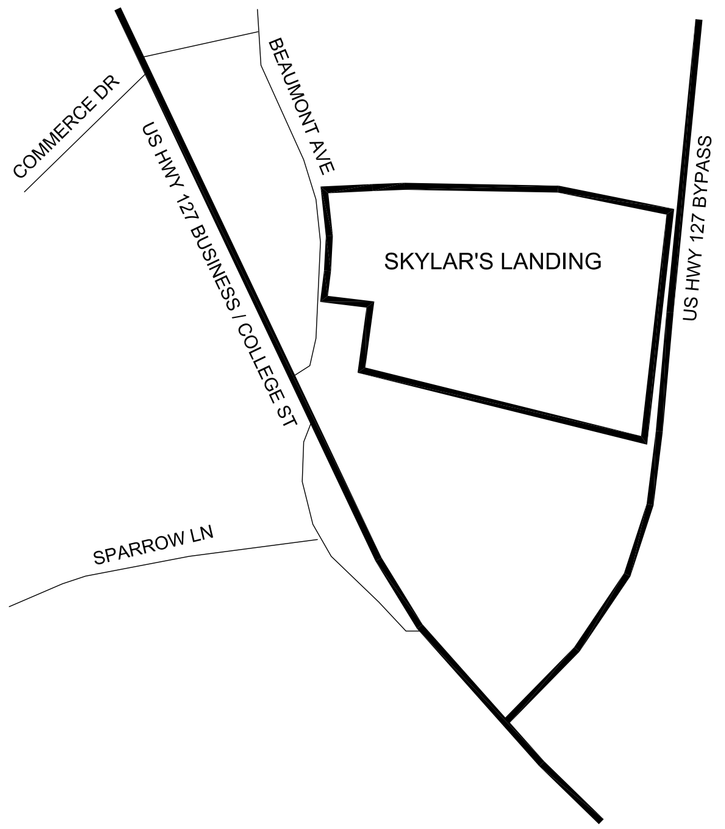


VICINITY MAP

IMPROVEMENT PLANS

SKYLAR'S LANDING, PHASE ONE
HARRODSBURG, KENTUCKY
MAY 2008

OWNER/CLIENT INFORMATION

MONTGOMERY AND MITCHELL LLC
519 RONCLAR DRIVE
LANCASTER, KENTUCKY 40444

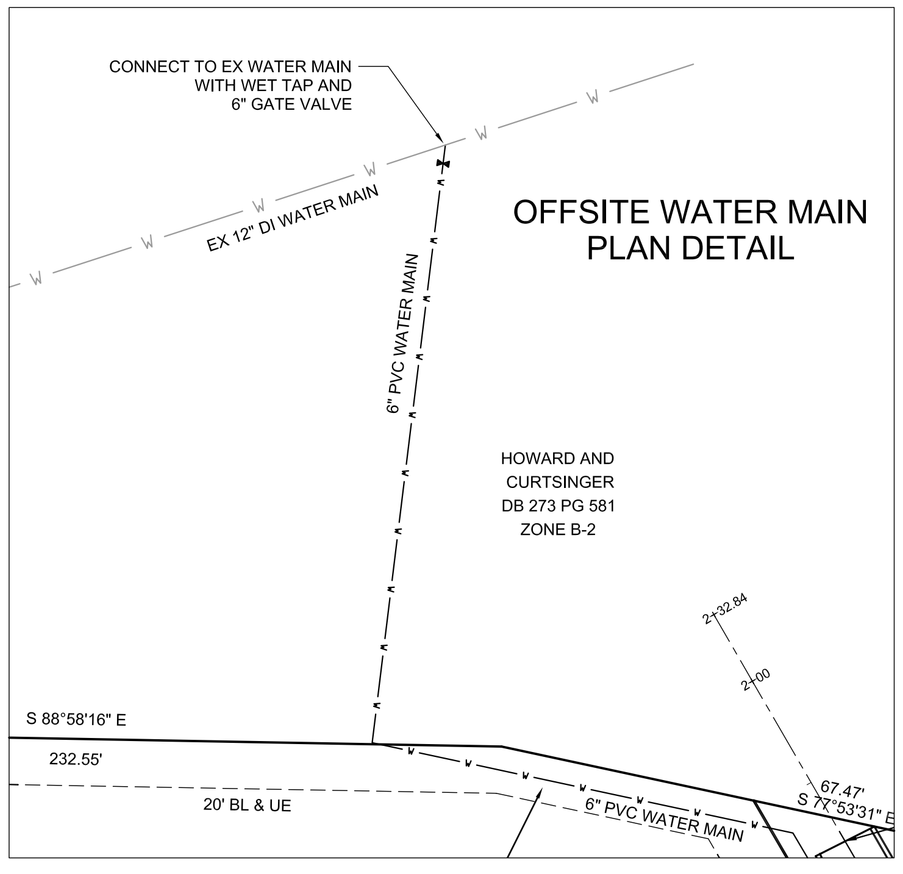
INDEX OF SHEETS

1 COVER
2 SITE AND WATER PLAN
3 GRADING AND EROSION CONTROL PLAN
4 STORM SEWER PLAN
5 SANITARY SEWER PLAN
6 STREET PROFILES
7 STORM SEWER PROFILES
8 SANITARY SEWER PROFILES
9-10 STANDARD DETAILS

VANTAGE
Engineering PLC

2038 Danville Road, Harrodsburg, Kentucky 40330
phone: 859-734-0560 fax: 859-734-0561 website: www.vantageky.com

SCALE 1" = 50'
0 25 50 100



BEFORE PROCEEDING WITH THE WORK, THE CONTRACTOR SHALL CONFER WITH ALL PUBLIC OR PRIVATE COMPANIES, AGENCIES, OR DEPARTMENTS THAT OWN AND OPERATE UTILITIES IN THE VICINITY OF THE CONSTRUCTION.

EXISTING UNDERGROUND UTILITIES AND SERVICES, IF ANY, ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ACCORDING TO THE BEST INFORMATION AVAILABLE. THE LOCATIONS ARE INTENDED ONLY AS A GUIDE AND CANNOT BE GUARANTEED ACCURATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR:

A. CONTACTING THE INDIVIDUAL UTILITY OWNERS TEN DAYS PRIOR TO CONSTRUCTION, ADVISING THEM OF THE WORK TO TAKE PLACE.
B. SOLICITING THEIR AID IN LOCATING AND PROTECTING ANY UTILITY WHICH MAY INTERFERE WITH CONSTRUCTION.
C. EXCAVATING AND VERIFYING THE HORIZONTAL AND VERTICAL LOCATION OF EACH UTILITY.
D. ANY DAMAGE TO ANY EXISTING UTILITY.

THE CONTRACTOR SHALL NOTIFY THE CITY OF HARRODSBURG WATER DEPARTMENT 48 HOURS (2 DAYS) PRIOR TO THE START OF CONSTRUCTION.

THE CITY OF HARRODSBURG WATER DEPARTMENT STANDARDS FOR CONSTRUCTION AND MATERIALS APPLY TO THE WATER SYSTEMS.

ALL POLYVINYL CHLORIDE (PVC) WATER MAINS SHALL BE SDR21 CLASS 200 PVC AND HAVE A TRACER WIRE (COPPER-SINGLESTRAND WIRE, 12 GAUGE SOLID COPPER WIRE) TAPED TO THE LINE.

ALL WATER SERVICE LATERALS SHALL BE CONSTRUCTED WITH 1" DIAMETER PIPE. THE CONTRACTOR SHALL INSTALL WATER SERVICE LATERALS AND TERMINATE WITH A CORPORATION STOP AND METER BOX (AS SHOWN ON THE PLANS).

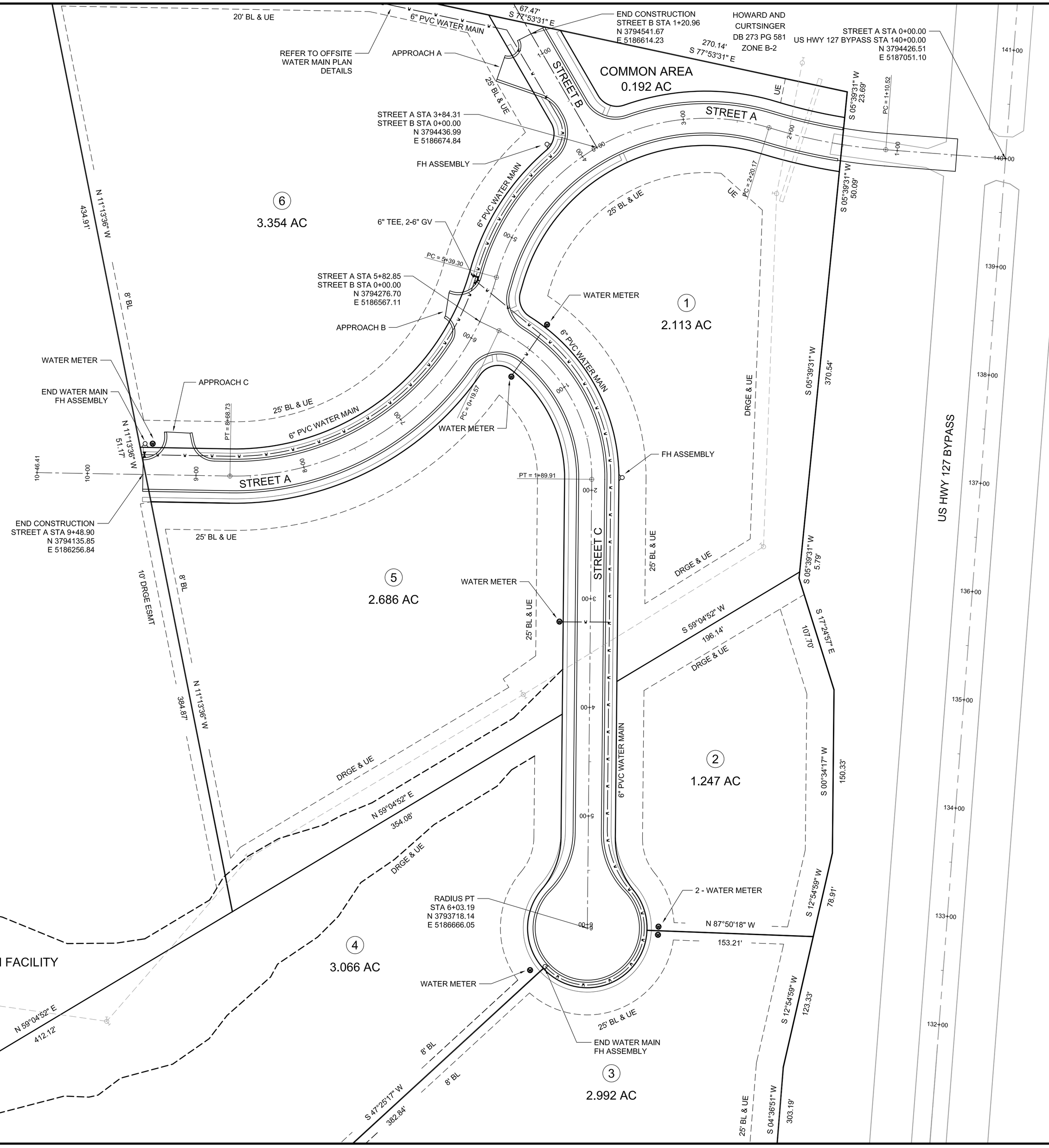
THE FINAL LOCATION OF SERVICES, AIR RELEASE VALVES, METER BOXES, AND HYDRANT ORIENTATION ARE TO BE FIELD LOCATED DURING CONSTRUCTION AND APPROVED BY THE ENGINEER.

A LOCATION POLE SHALL BE LOCATED AT EACH WATER VALVE, FIRE HYDRANT VALVE, AND WATER SERVICE. THE POLE SHALL BE 2"X4"X8' LONG WITH 5' BENEATH THE SURFACE. THE TOP 12" OF THE POLE SHALL BE PAINTED BLUE.

UNLESS OTHERWISE NOTED, A SEPARATE BID ITEM HAS NOT BEEN ESTABLISHED FOR FITTINGS. THE FITTINGS INCLUDED BUT NOT LIMITED TO ARE: TEES, PLUGS, REDUCERS, SADDLES, CROSSES, COUPLINGS, ETC. CONTRACTOR SHALL INCLUDE THE COST OF THESE ITEMS IN THE UNIT PRICE FOR PIPE.

CONTRACTOR SHALL PROVIDE PERFORMANCE TESTING IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.

THE CONTRACTOR SHALL RECORD THE LOCATION OF ALL SERVICE LINES ON A SET OF PLANS. DRAWINGS SHALL BE RETURNED TO THE ENGINEER WHEN ALL SERVICES HAVE BEEN INSTALLED.



REVISIONS	
1.	
2.	
3.	
4.	

DATE: 5/1/08
SCALE: 1" = 50'
DRAWN BY: KMW
CHECKED BY: KMW
JOB NUMBER: 121002

VANTAGE
Engineering PLC
2038 Danville Road, Harrodsburg, Kentucky 40330
phone: 859-734-0560 fax: 859-734-0561 website: www.vantageky.com

SKYLAR'S LANDING - PHASE ONE
HARRODSBURG, KENTUCKY
SITE AND WATER PLAN

SHEET
2

SCALE 1" = 50'

0 25 50 100

SOIL EROSION CONTROL SEQUENCE

IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTROL EROSION FROM THIS SITE DURING ITS PHYSICAL ALTERATION. THIS PLAN SEEKS TO PROVIDE SOME DIRECTION IN THE MANNER IN WHICH THE OBJECTIVE TO CONTROL EROSION CAN BE ACCOMPLISHED. IT IS NOT THE INTENT OF VANTAGE ENGINEERING TO LIMIT THE CONTRACTOR IN THE MANNER AND TECHNIQUES TO CONTROL EROSION. RECOMMENDED RESOURCES FOR CONTRACTORS WORK IS "STORMWATER MANAGEMENT FOR CONSTRUCTION ACTIVITIES-DEVELOPING POLLUTION PREVENTION PLANS AND BEST MANAGEMENT PRACTICES" PUBLISHED BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY.

THE FOLLOWING IS A LIST, IN SEQUENCE, OF CONSTRUCTION ACTIVITIES TO CONTROL SOIL EROSION FOR THE PROJECT:

1. 50' OF NO. 2 STONE SHALL BE INSTALLED AT THE ACCESS LOCATION. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS FREE FROM MUD, DIRT, DEBRIS, AND ROCK. DUST SHALL BE KEPT TO A MINIMUM BY UTILIZING SPRINKLING, CALCIUM CHLORIDE, VEGETATIVE COVER, SPRAY ON ADHESIVES OR OTHER APPROVED METHODS.

2. INSTALL SILT FENCE, DIVERSION DITCHES, AND SILT TRAPS AS SHOWN.

3. PRELIMINARY GRADING OF THE SITE SHALL BEGIN AS AREAS OF THE SITE ARE BROUGHT TO DESIGN GRADES. EROSION MEASURES SUCH AS DIVERSION DITCHES, SILT TRAPS, STRAW BALES, RIPRAP CHANNEL LINING, AND SILT FENCE SHALL BE INSTALLED IN ACCORDANCE WITH THE "BEST MANAGEMENT PRACTICES".

4. CLEAR AND GRUB THE SITE AND DISPOSE OF ALL DEBRIS PROPERLY. IF AN AREA THAT HAS BEEN DISTURBED IS TO BE INACTIVE FOR MORE THAN 21 DAYS, THE CONTRACTOR SHALL SUPPLY STABILIZATION BY MEANS OF TEMPORARY SEEDING AND MULCHING, SODDING, COVERING OR OTHER EQUIVALENT EROSION CONTROL MEASURES AS SOON AS PRACTICAL. IN NO CASE SHALL AN AREA REMAIN UNTREATED FOR MORE THAN 14 DAYS AFTER CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED. FOR TEMPORARY SEEDING THE CONTRACTOR SHALL UTILIZE A FAST GROWING SEED OF EITHER OATS, ANNUAL RYE GRASS OR WHEAT DEPENDING ON THE TIME OF YEAR.

5. STOCKPILED MATERIALS SHOULD BE PROPERLY STABILIZED WITH TEMPORARY SEEDING AND EROSION CONTROL FENCE.

6. MAINTAIN ALL FILTERS AND TRAPS DURING CONSTRUCTION TO PREVENT ANY BLOCKAGES FROM ACCUMULATED SEDIMENT. AFTER EVERY RAIN IN EXCESS OF HALF AN INCH, SILT CONTROL DEVISES ARE TO BE INSPECTED CLEANED AND REPAIRED IF NECESSARY. SILT FENCE MUST BE CLEANED IF SILT BUILDUP REACHES 1/3 OF THE SILT FENCE HEIGHT. SILT TRAPS SHALL BE CLEANED WHEN SILT DEPOSITS REACH 1/2 OF TRAP CAPACITY. ADDITIONAL SEEDING, SILT FENCE, AND/OR STRAW BALES MAY BE REQUIRED DURING CONSTRUCTION.

7. ALL SURFACE INLETS AND CURB INLETS SHALL BE PROTECTED WITH INTERWOVEN STONE BAGS.

8. WHEN DISTURBED AREAS ARE AT FINAL GRADE AND ALL ACTIVITY IN THESE AREAS IS COMPLETE, PERMANENT VEGETATION SHALL BE PROVIDED AS DESCRIBED IN THE PLANS AND SPECIFICATIONS. THIS VEGETATION IS TO INCLUDE PERENNIAL GRASSES APPROVED BY THE DEVELOPER. SLOPES EXCEEDING 4:1 SHALL HAVE THE ADDITIONAL PROTECTION OF MULCHING OR SODDING TO PREVENT EROSION. SEEDING OF ALL PERMANENT VEGETATION SHALL FOLLOW GUIDELINES SET FORTH IN "BEST MANAGEMENT PRACTICES".

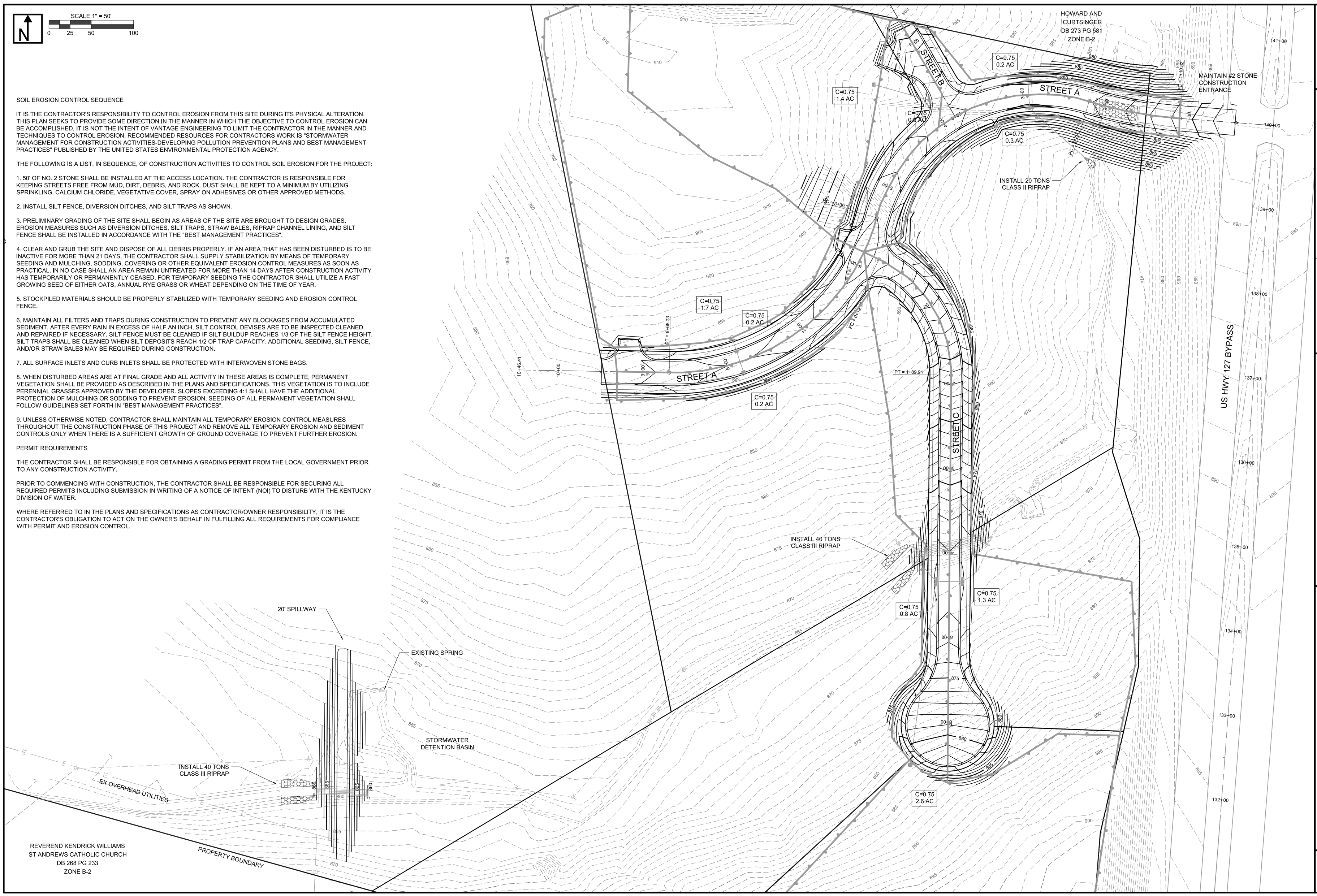
9. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL MAINTAIN ALL TEMPORARY EROSION CONTROL MEASURES THROUGHOUT THE CONSTRUCTION PHASE OF THIS PROJECT AND REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROLS ONLY WHEN THERE IS A SUFFICIENT GROWTH OF GROUND COVERAGE TO PREVENT FURTHER EROSION.

PERMIT REQUIREMENTS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A GRADING PERMIT FROM THE LOCAL GOVERNMENT PRIOR TO ANY CONSTRUCTION ACTIVITY.

PRIOR TO COMMENCING WITH CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL REQUIRED PERMITS INCLUDING SUBMISSION IN WRITING OF A NOTICE OF INTENT (NOI) TO DISTURB WITH THE KENTUCKY DIVISION OF WATER.

WHERE REFERRED TO IN THE PLANS AND SPECIFICATIONS AS CONTRACTOR/OWNER RESPONSIBILITY, IT IS THE CONTRACTOR'S OBLIGATION TO ACT ON THE OWNER'S BEHALF IN FULFILLING ALL REQUIREMENTS FOR COMPLIANCE WITH PERMIT AND EROSION CONTROL.



REVISIONS	
1.	
2.	
3.	
4.	

DATE: 5/1/08
SCALE: 1" = 50'
DRAWN BY: KMW
CHECKED BY: KMW
JOB NUMBER: 121002

VANTAGE
Engineering PLC
2038 Danville Road, Harrodsburg, Kentucky 40330
phone: 859-734-0560 fax: 859-734-0561 website: www.vantageky.com

SKYLAR'S LANDING - PHASE ONE
HARRODSBURG, KENTUCKY
GRADING AND EROSION CONTROL PLAN

SHEET
3

SCALE 1" = 50'

0 25 50 100

BEFORE PROCEEDING WITH THE WORK, THE CONTRACTOR SHALL CONFER WITH ALL PUBLIC OR PRIVATE COMPANIES, AGENCIES, OR DEPARTMENTS THAT OWN AND OPERATE UTILITIES IN THE VICINITY OF THE CONSTRUCTION.

EXISTING UNDERGROUND UTILITIES AND SERVICES, IF ANY, ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ACCORDING TO THE BEST INFORMATION AVAILABLE. THE LOCATIONS ARE INTENDED ONLY AS A GUIDE AND CANNOT BE GUARANTEED ACCURATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR:

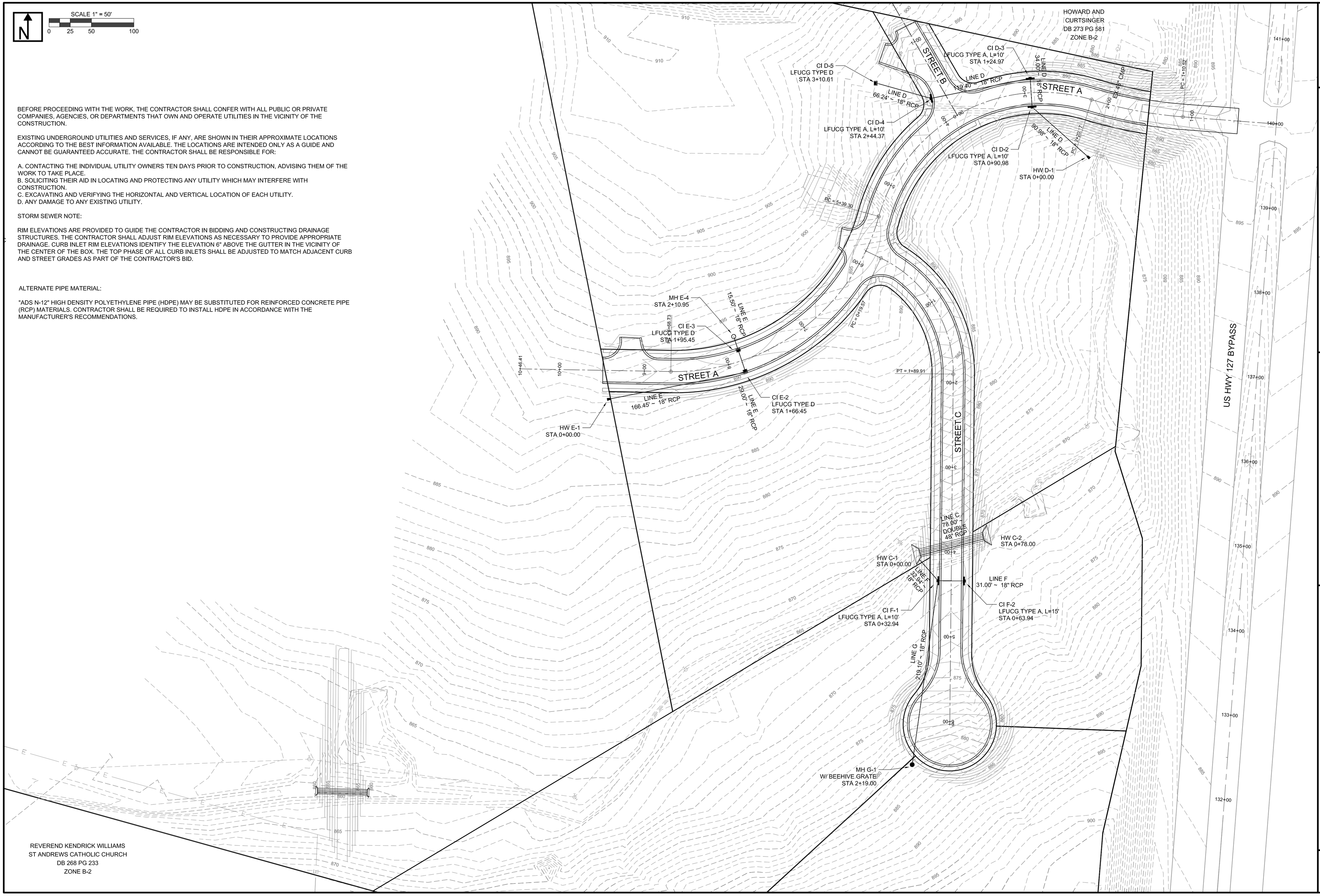
A. CONTACTING THE INDIVIDUAL UTILITY OWNERS TEN DAYS PRIOR TO CONSTRUCTION, ADVISING THEM OF THE WORK TO TAKE PLACE.
B. SOLICITING THEIR AID IN LOCATING AND PROTECTING ANY UTILITY WHICH MAY INTERFERE WITH CONSTRUCTION.
C. EXCAVATING AND VERIFYING THE HORIZONTAL AND VERTICAL LOCATION OF EACH UTILITY.
D. ANY DAMAGE TO ANY EXISTING UTILITY.

STORM SEWER NOTE:

RIM ELEVATIONS ARE PROVIDED TO GUIDE THE CONTRACTOR IN BIDDING AND CONSTRUCTING DRAINAGE STRUCTURES. THE CONTRACTOR SHALL ADJUST RIM ELEVATIONS AS NECESSARY TO PROVIDE APPROPRIATE DRAINAGE. CURB INLET RIM ELEVATIONS IDENTIFY THE ELEVATION 6" ABOVE THE GUTTER IN THE VICINITY OF THE CENTER OF THE BOX. THE TOP PHASE OF ALL CURB INLETS SHALL BE ADJUSTED TO MATCH ADJACENT CURB AND STREET GRADES AS PART OF THE CONTRACTOR'S BID.

ALTERNATE PIPE MATERIAL:

"ADS N-12" HIGH DENSITY POLYETHYLENE PIPE (HDPE) MAY BE SUBSTITUTED FOR REINFORCED CONCRETE PIPE (RCP) MATERIALS. CONTRACTOR SHALL BE REQUIRED TO INSTALL HDPE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.



REVISIONS	
1.	
2.	
3.	
4.	

DATE: 5/1/08
SCALE: 1" = 50'
DRAWN BY: KMW
CHECKED BY: KMW
JOB NUMBER: 121002

VANTAGE Engineering PLC
2038 Danville Road, Harrodsburg, Kentucky 40330
phone: 859-734-0560 fax: 859-734-0561 website: www.vantageky.com

SKYLAR'S LANDING - PHASE ONE
HARRODSBURG, KENTUCKY
STORM SEWER PLAN

SHEET 4

SCALE 1" = 50'

0 25 50 100

BEFORE PROCEEDING WITH THE WORK, THE CONTRACTOR SHALL CONFER WITH ALL PUBLIC OR PRIVATE COMPANIES, AGENCIES, OR DEPARTMENTS THAT OWN AND OPERATE UTILITIES IN THE VICINITY OF THE CONSTRUCTION.

EXISTING UNDERGROUND UTILITIES AND SERVICES, IF ANY, ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ACCORDING TO THE BEST INFORMATION AVAILABLE. THE LOCATIONS ARE INTENDED ONLY AS A GUIDE AND CANNOT BE GUARANTEED ACCURATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR:

A. CONTACTING THE INDIVIDUAL UTILITY OWNERS TEN DAYS PRIOR TO CONSTRUCTION, ADVISING THEM OF THE WORK TO TAKE PLACE.
B. SOLICITING THEIR AID IN LOCATING AND PROTECTING ANY UTILITY WHICH MAY INTERFERE WITH CONSTRUCTION.
C. EXCAVATING AND VERIFYING THE HORIZONTAL AND VERTICAL LOCATION OF EACH UTILITY.
D. ANY DAMAGE TO ANY EXISTING UTILITY.

THE CONTRACTOR SHALL NOTIFY THE CITY OF HARRODSBURG WATER DEPARTMENT 48 HOURS (2 DAYS) PRIOR TO THE START OF CONSTRUCTION.

THE CITY OF HARRODSBURG WATER DEPARTMENT STANDARDS FOR CONSTRUCTION AND MATERIALS APPLY TO THE SEWER SYSTEMS.

ALL POLYVINYL CHLORIDE (PVC) SANITARY SEWER SHALL BE SDR 35 PVC.

ALL SEWER MANHOLES ARE 4' DIAMETER UNLESS OTHERWISE NOTED.

THE CONTRACTOR SHALL INSTALL SANITARY SEWER LATERALS AS SHOWN ON THIS PLAN. LATERAL TEES AND PIPE MATERIALS SHALL MATCH THE PIPE MATERIAL OF THE COLLECTOR. ALL LATERALS ARE TO BE CONSTRUCTED OF 6" DIAMETER PIPE UNLESS OTHERWISE NOTED.

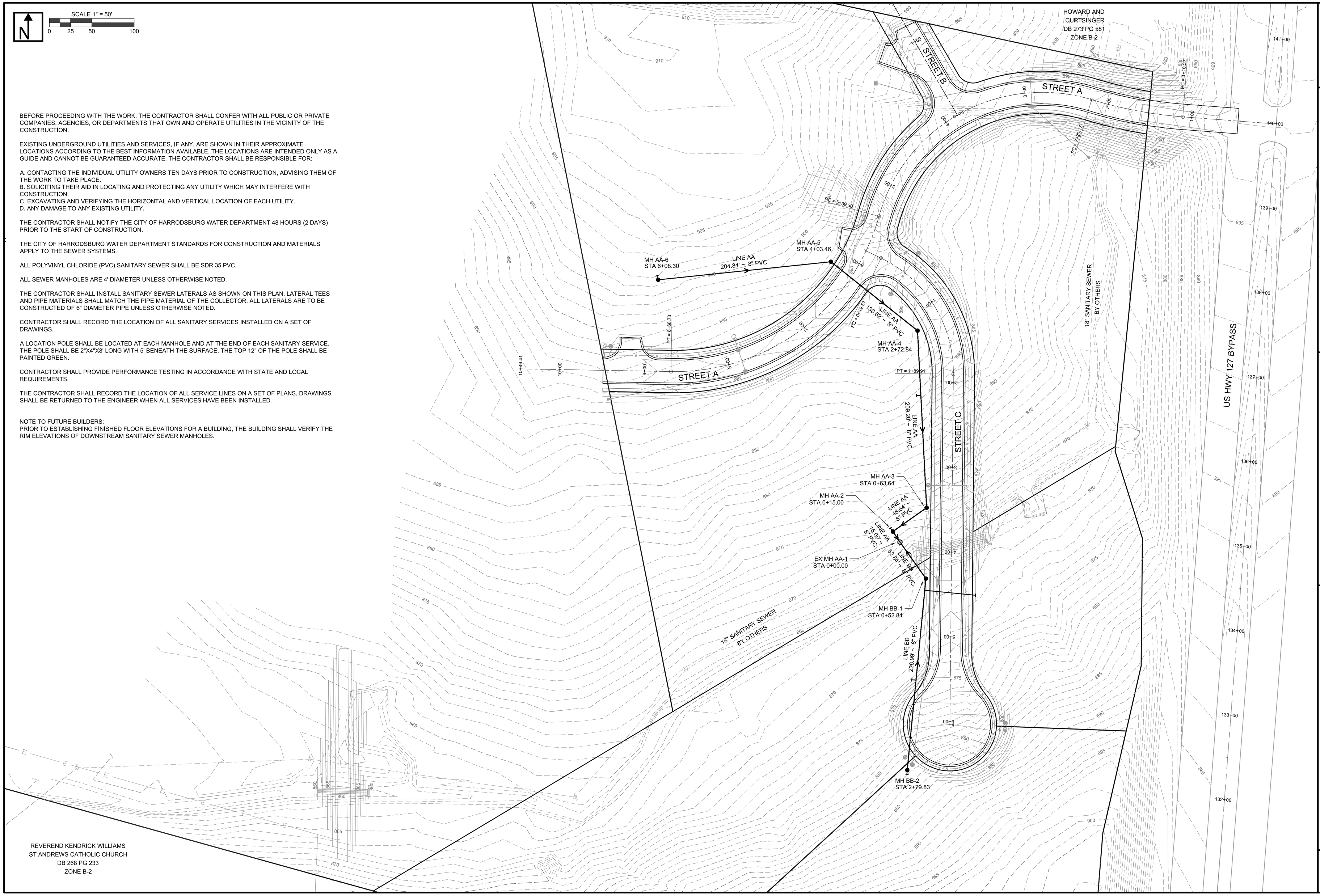
CONTRACTOR SHALL RECORD THE LOCATION OF ALL SANITARY SERVICES INSTALLED ON A SET OF DRAWINGS.

A LOCATION POLE SHALL BE LOCATED AT EACH MANHOLE AND AT THE END OF EACH SANITARY SERVICE. THE POLE SHALL BE 2"X4"X8' LONG WITH 5' BENEATH THE SURFACE. THE TOP 12" OF THE POLE SHALL BE PAINTED GREEN.

CONTRACTOR SHALL PROVIDE PERFORMANCE TESTING IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.

THE CONTRACTOR SHALL RECORD THE LOCATION OF ALL SERVICE LINES ON A SET OF PLANS. DRAWINGS SHALL BE RETURNED TO THE ENGINEER WHEN ALL SERVICES HAVE BEEN INSTALLED.

NOTE TO FUTURE BUILDERS:
PRIOR TO ESTABLISHING FINISHED FLOOR ELEVATIONS FOR A BUILDING, THE BUILDING SHALL VERIFY THE RIM ELEVATIONS OF DOWNSTREAM SANITARY SEWER MANHOLES.



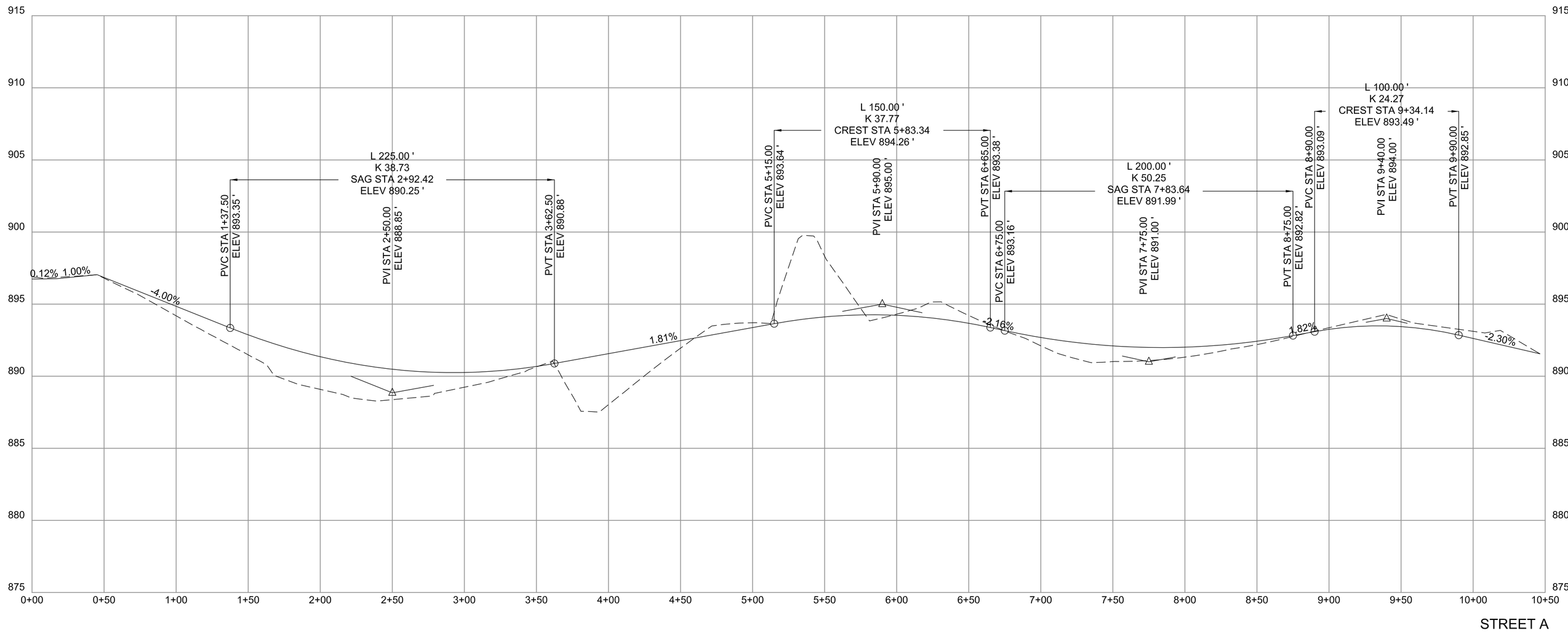
REVISIONS	
1.	
2.	
3.	
4.	

DATE: 5/1/08
SCALE: 1" = 50'
DRAWN BY: KMW
CHECKED BY: KMW
JOB NUMBER: 121002

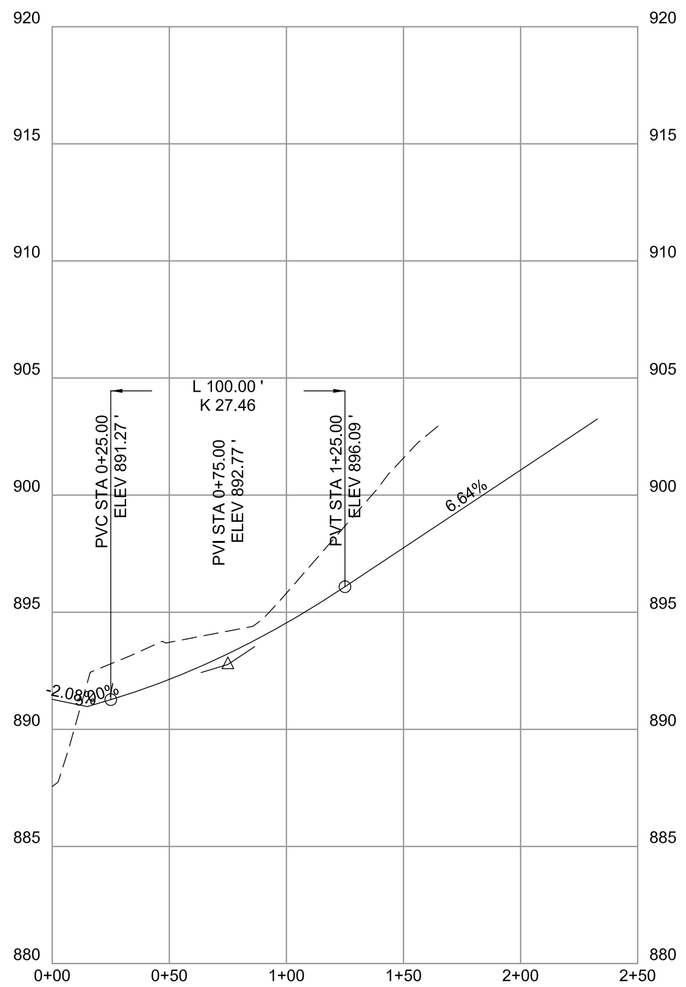
VANTAGE Engineering PLC
2038 Danville Road, Harrodsburg, Kentucky 40330
phone: 859-734-0560 fax: 859-734-0561 website: www.vantageky.com

SKYLAR'S LANDING - PHASE ONE
HARRODSBURG, KENTUCKY
SANITARY SEWER PLAN

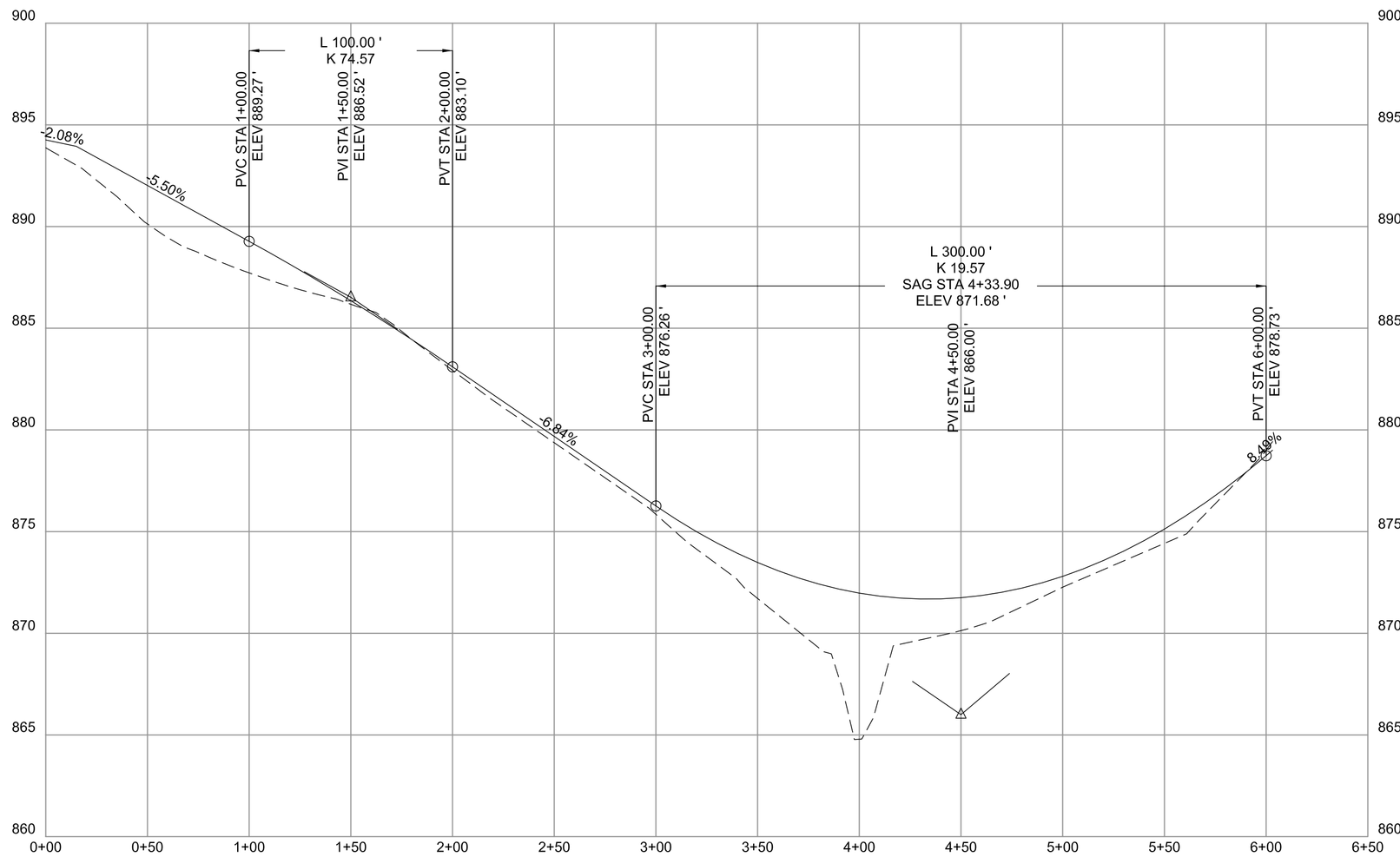
SHEET 5



STREET A



STREET B



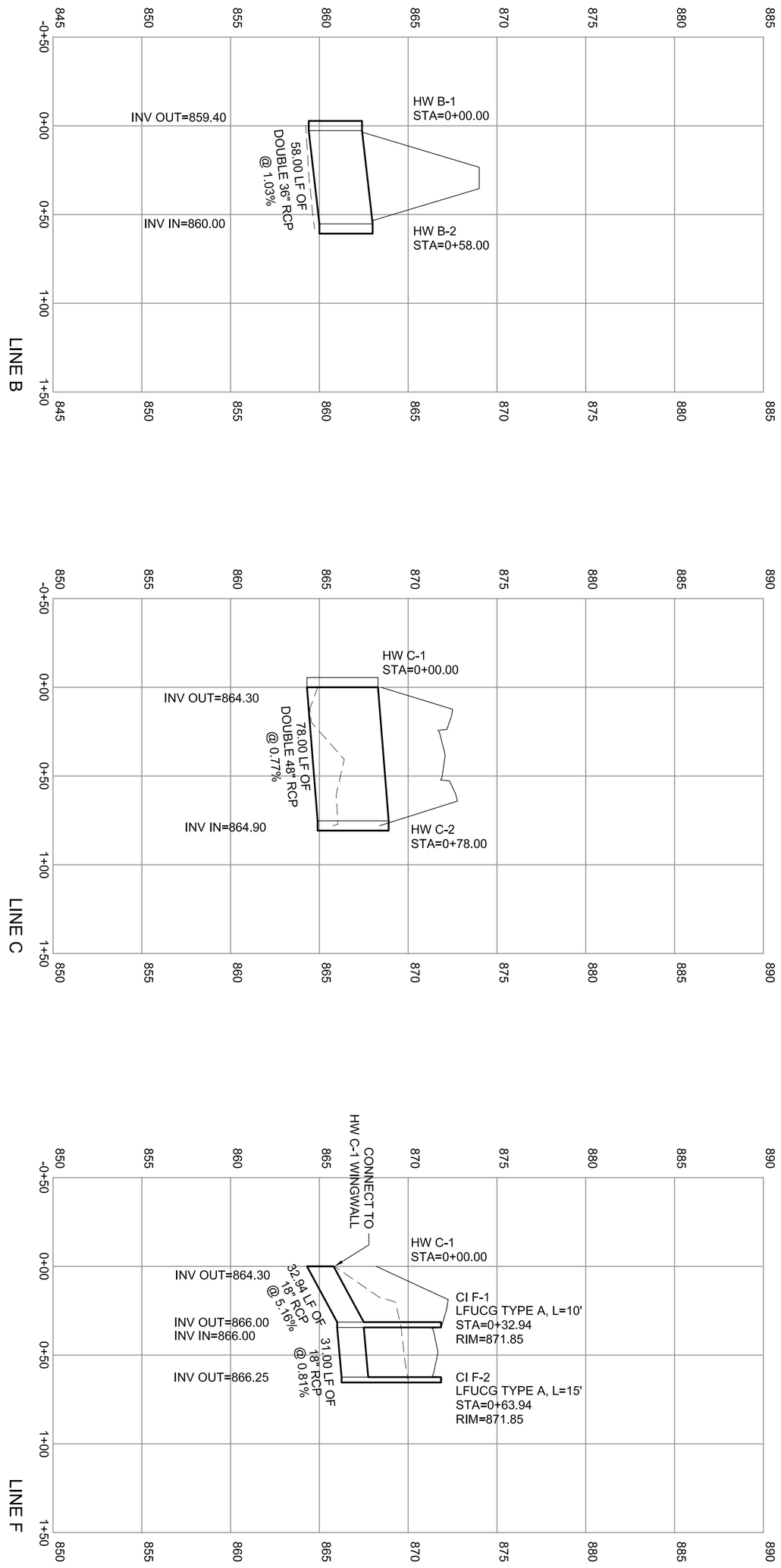
STREET C

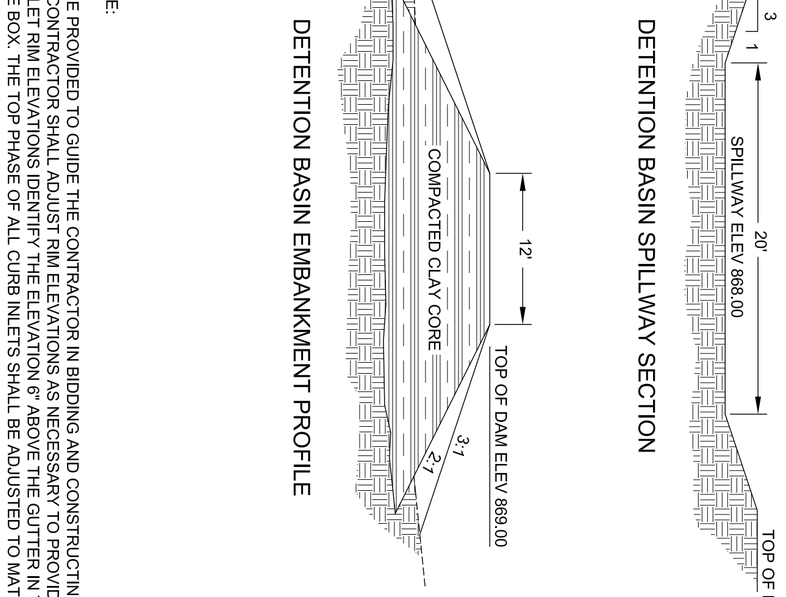
DATE: 5/1/08	REVISIONS
SCALE: 1" = 50'	1.
DRAWN BY: KMW	2.
CHECKED BY: KMW	3.
JOB NUMBER: 121002	4.

VANTAGE Engineering PLC
2038 Danville Road, Harrodsburg, Kentucky 40330
phone: 859-734-0560 fax: 859-734-0561 website: www.vantageky.com

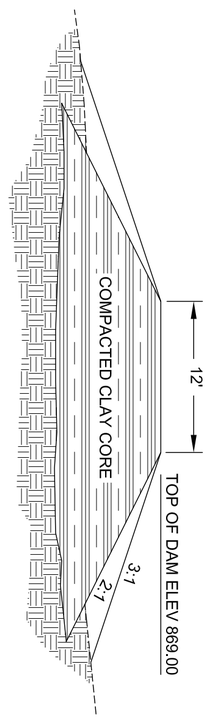
SKYLAR'S LANDING - PHASE ONE
HARRODSBURG, KENTUCKY
STREET PROFILES

SHEET
6





DETENTION BASIN SPILLWAY SECTION



DETENTION BASIN EMBANKMENT PROFILE

STORM SEWER NOTE:

RIM ELEVATIONS ARE PROVIDED TO GUIDE THE CONTRACTOR IN BIDDING AND CONSTRUCTING DRAINAGE STRUCTURES. THE CONTRACTOR SHALL ADJUST RIM ELEVATIONS AS NECESSARY TO PROVIDE APPROPRIATE DRAINAGE. CURB INLET RIM ELEVATIONS IDENTIFY THE ELEVATION 6" ABOVE THE GUTTER IN THE VICINITY OF THE CENTER OF THE BOX. THE TOP PHASE OF ALL CURB INLETS SHALL BE ADJUSTED TO MATCH ADJACENT CURB AND STREET GRADES AS PART OF THE CONTRACTOR'S BID.

SHEET 7

SKYLAR'S LANDING - PHASE ONE

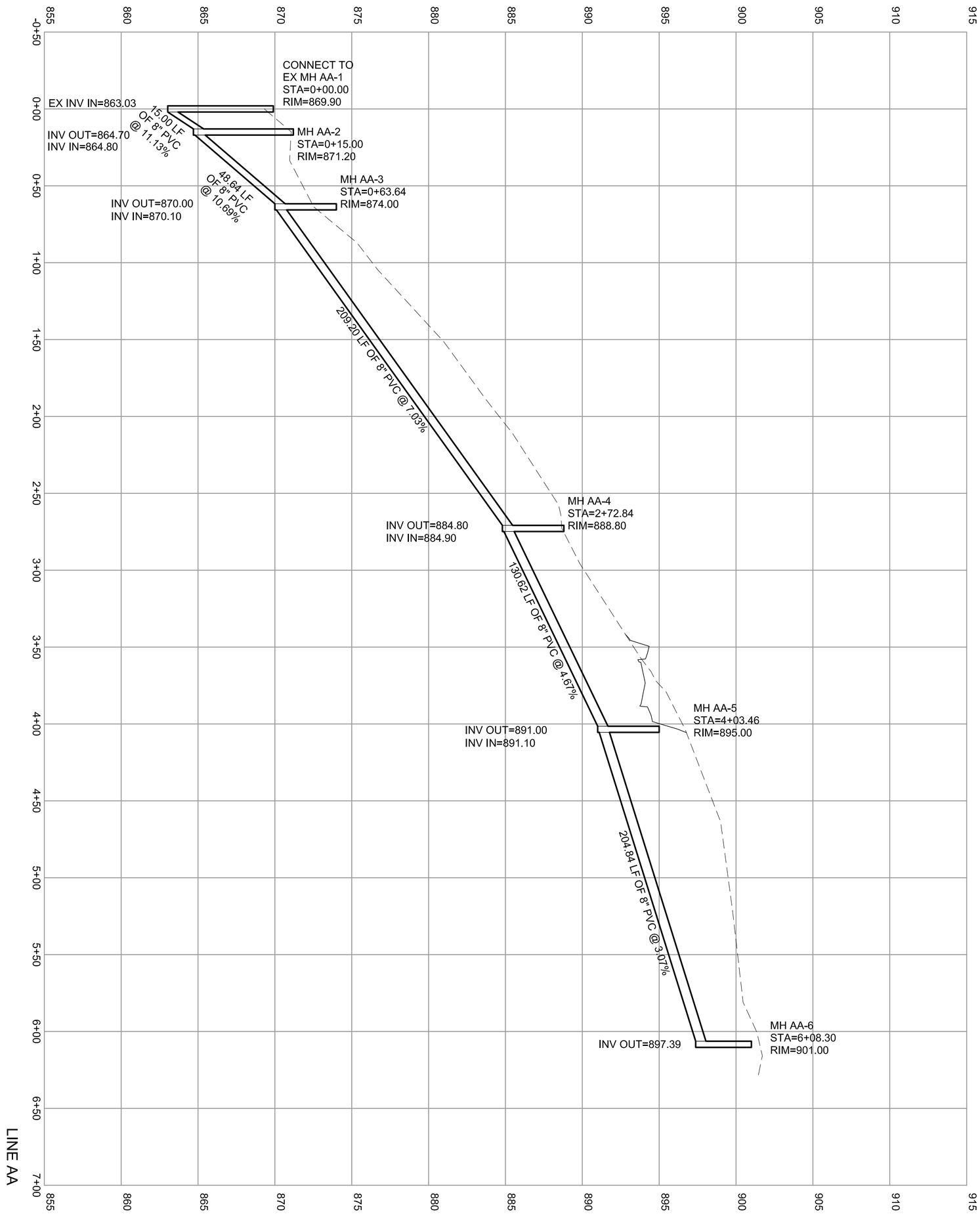
HARRODSBURG, KENTUCKY

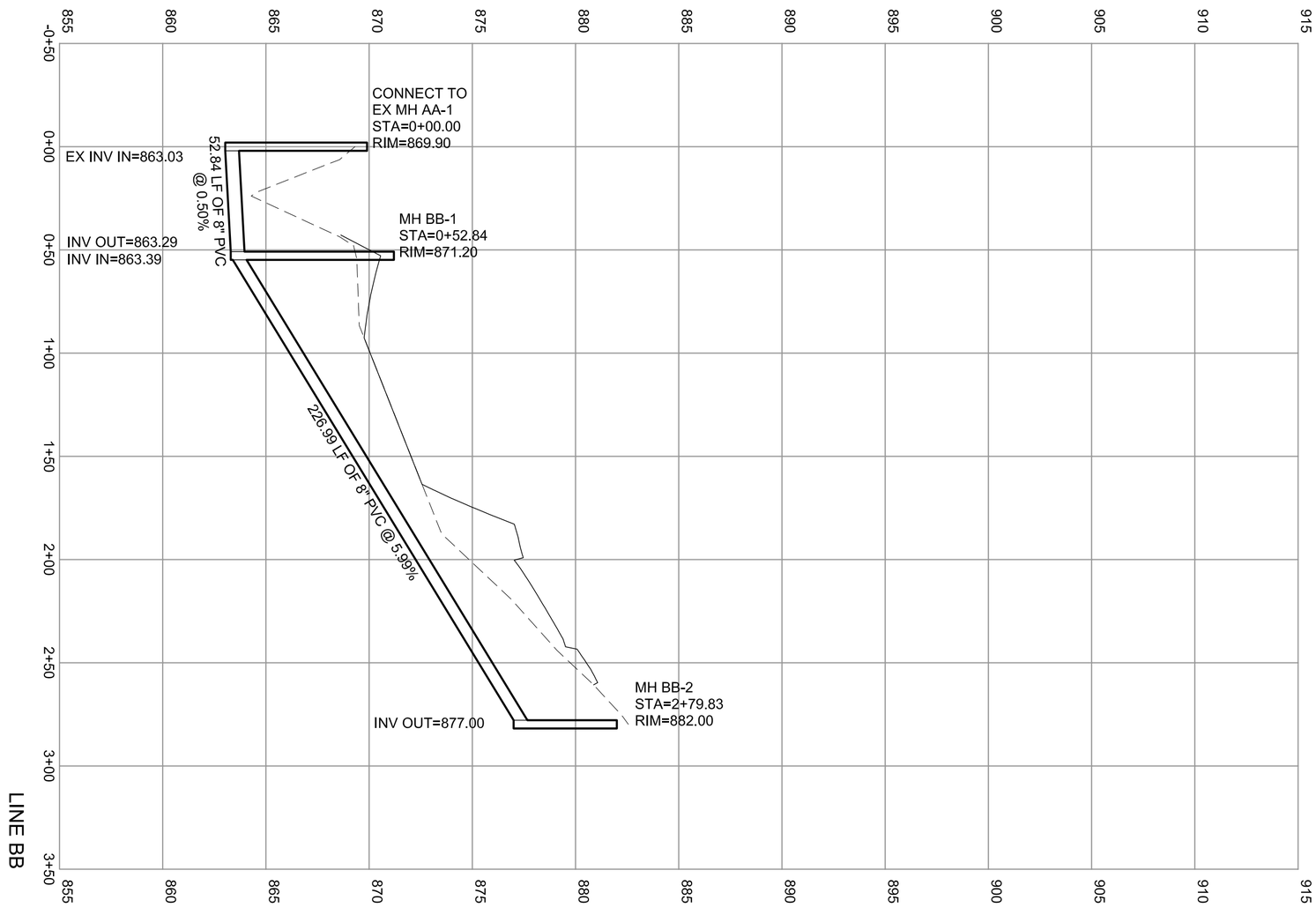
STORM SEWER PROFILES

VANTAGE Engineering PLC

2038 Danville Road, Harrodsburg, Kentucky 40330
phone: 859-734-0560 fax: 859-734-0561 website: www.vantageky.com

DATE: 5/1/08	REVISIONS
SCALE: 1" = 50'	1.
DRAWN BY: KMW	2.
CHECKED BY: KMW	3.
JOB NUMBER: 121002	4.





SHEET 8

SKYLAR'S LANDING - PHASE ONE

HARRODSBURG, KENTUCKY

SANITARY SEWER PROFILES

VANTAGE Engineering PLC

2038 Danville Road, Harrodsburg, Kentucky 40330
phone: 859-734-0560 fax: 859-734-0561 website: www.vantageky.com

DATE: 5/1/08	REVISIONS
SCALE: 1" = 50'	1.
DRAWN BY: KMW	2.
CHECKED BY: KMW	3.
JOB NUMBER: 121002	4.