

*Kenton C. Ward, Surveyor*  
Phone (317) 776-8495  
Fax (317) 776-9628

*Suite 188*  
*One Hamilton County Square*  
*Noblesville, Indiana 46060-2230*

**To: Hamilton County Drainage Board**

**June 13, 2005**

**Re: 146<sup>th</sup> St Road Improvement Project**

Attached are as-builts, plans, and other information for the 146<sup>th</sup> St. Road Improvement project. An inspection of the drainage facilities for this project has been made and the facilities were found to be complete and acceptable.

This report will serve as an initial and final report for this construction. This road project began just west of River Avenue and continued westward to a few hundred feet east of Oak Ridge Road. During this construction several regulated drains were affected. Those drains are as follows:

**Cole & Associates Asbuilts: Project 98-0005**

**#117 Elizabeth Warner Drain:** the widening removed 145' of 7" tile and 145' of 6" tile. A new breather was set on the south side of the road.

**#205 Scarborough Farms Drain:** there was 170' feet of 12" SSD removed along the right of way along with a 15" cmp outlet pipe.(Str. 100). The new outlet for the 12"ssd is now Str 42A on the road plans which resulted in an addition of 35' fo 12"ssd. The drain was then extended from Str 42A to the south side of 146<sup>th</sup> Street and empties into Kirkendall Creek. This extention consisted of 196 feet of 15" RCP.

**RW Armstrong Plans: Project 98-0004**

**#293 Setter's Run Drain:** Strs. 819-820 consists of 12" RCP and was shortened by 16 feet. Str 820 was removed and replaced with a solid manhole. Strs. 807-808 consists of 12" RCP and was shortened by 35 feet. Str. 808 was replaced with an inlet structure.

**American Consulting Engineers' Plans: Project 97-0006**

**#207 Westfield Farms Drain -Westfield Farms Sec. 1:** there was 680 feet of concrete swale removed along with 120' of 15" RCP between structures 1,2,3, and 4.

**#207 Westfield Farms Drain –Shadow Lakes Sec. 2:** the road project removed Str. 810 to 100. This removed 80' of 12" RCP.

**#149 Hunter's Creek Village Drain –Hunters Creek Village Sec. 1:** the road project removed 20 feet of 18" RCP and replaced Str. 106.

**#32 Overman Harvey Drain – Village Farms Sec. 16:** the road project removed Str. 400 to 401. This removed 85' of 12" RCP.

**Floyd E. Burrows Asbuilts: Project 98-0008;**

**#32 Overman Harvey Drain – Murphy Ditch:** the road project removed 1325 feet of open ditch and 190 feet of twin 33" RCP. The new 146<sup>th</sup> Street Improvement drain consists of the following: From Structure 72 to Str 71 to Str 124. This run of pipe consists of 328 feet of 29" x 45" ERCP and 1111 feet of RCP. This new portion is a total of 1439 feet of drain. Therefore, this road project removed a total of 76 feet from the drain's length.

**#240 Springmill Ponds Drain – Section 3 Arm:** the road project removed 430 feet of swale, 14 feet of 6"SSD, and 51 feet of 24" RCP. This occurred between Str 166 and 100 with both of those structures being removed. Also with the road project the existing twin 36" RCP under 146<sup>th</sup> St that outlets into the concrete swale in Village Farms Section 18 was shortened from 150 feet to 99 feet. The new 146<sup>th</sup> Street Improvement drain consists of the following:

Str 120–110:	24" RCP	36 feet
Str 110-124:	24" RCP	35 feet
Str 124-127:	27" x 42"ERCP	26 feet
Str 127-127A:	36"RCP-TWIN	195 feet
Str 127-127B:	36"RCP-TWIN	159 feet
Str 120–123:	12" RCP	10 feet
Str 110-92:	12" RCP	24 feet

This new portion is a total of 485 feet of drain. Therefore, this road project removed a total of 83 feet from the drain's length.

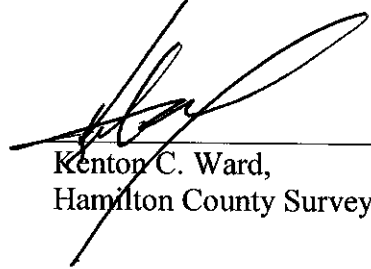
**#254 Ponds West Drain – Section 2 Arm:** the road project added 18 feet of 6" SSD, 55 feet of 18" RCP, and 161 feet of 15" RCP. This was between structures 20,21,22,23, and 23A, placed at the entrance of Thomas Dr.

**#257 Village of Mount Carmel-Section 8 Arm:** the road project added 68 feet of 12" RCP and two curb inlets identified as C1 and C2. This portion of drain was existed prior to this project but will be added to the regulated drain at this time.

**#278 Merrimac Drain – Section 1 Arm:** the road project removed structure 100 a concrete endsection and 18 feet of 15" HCSP.

I recommend the Board approve the drain's construction as complete and acceptable.

Sincerely,

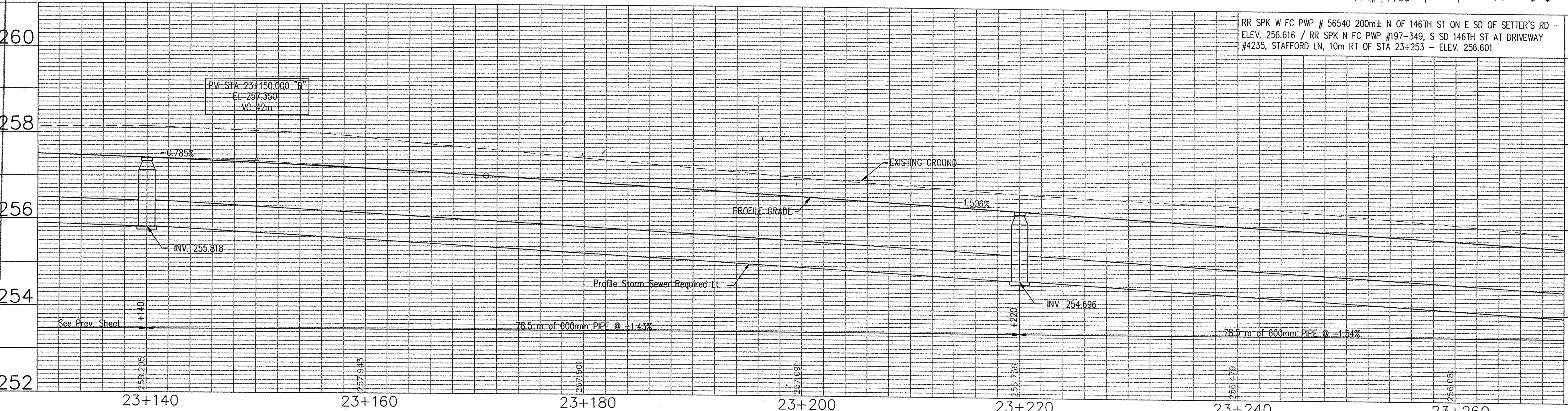
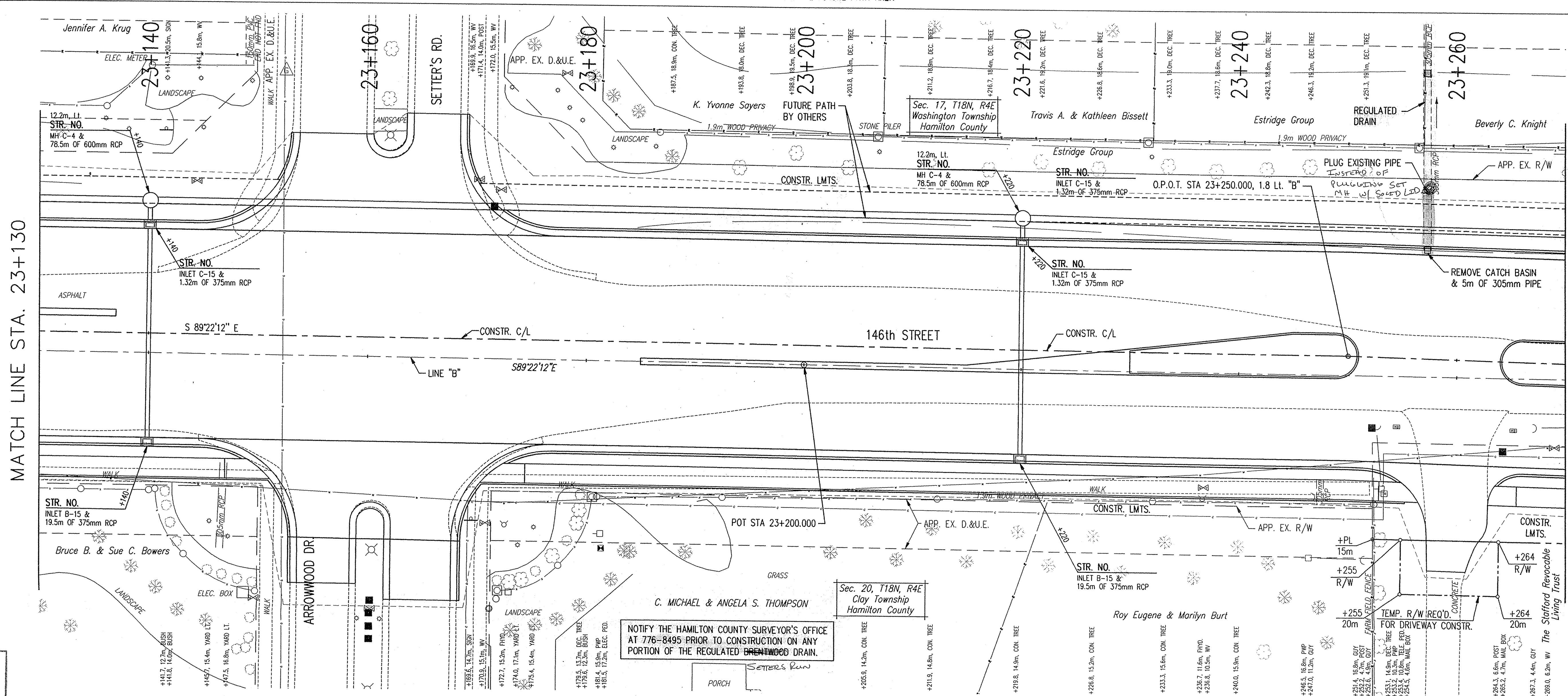


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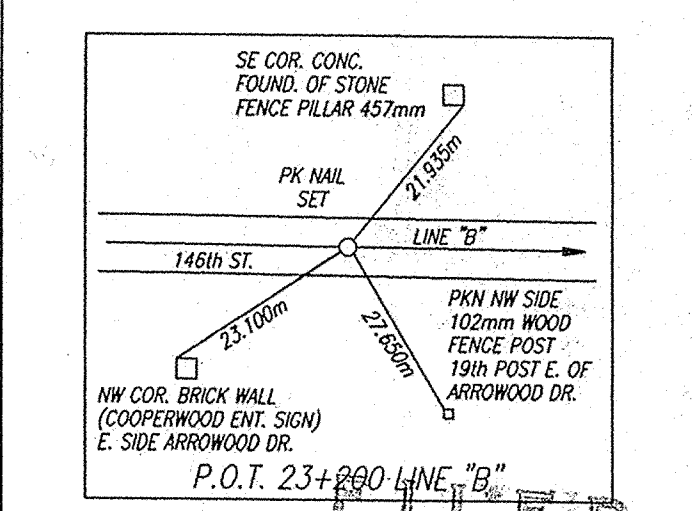
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NO ABOVE GROUND UTILITIES WILL BE PERMITTED WITHIN THE FUTURE PATH AREA

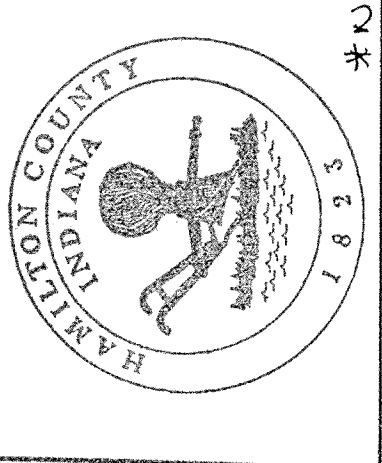


**EXISTING LEGEND**

⊙	STORM MANHOLE	⊙	ELECTRIC METER
⊙	STORM CURB INLET	⊙	TELE MANHOLE
⊙	STORM FLAT INLETS	⊙	TRAFFIC MANHOLE
⊙	SANITARY MANHOLE	⊙	TELEPHONE POLE
⊙	LIGHT POLE	⊙	TELEPHONE RISER
⊙	POWER POLE	⊙	CABLE T.V. RISER
⊙	POWER/LIGHT POLE	⊙	WATER VALVE
⊙	WATER METER	⊙	TELEPHONE BOOTH
⊙	FIRE HYDRANT	⊙	RETAINING WALL
⊙	GAS VALVE	⊙	SIGN
⊙	GAS METER	⊙	MAILBOX
⊙	GAS MARKER	⊙	HEDGE
⊙	R/W MARKER	⊙	BUSH
⊙	MONUMENT	⊙	DECIDUOUS TREE
⊙	IRON PIN	⊙	CONIFEROUS TREE
⊙	POST		
⊙	FENCES		
⊙	GUY WIRE		



This information was gathered for input into the Hamilton County Geographical Information System. The information is considered an official record of the GIS.  
 Entry Date: 7-8-05  
 Entered By: JLM  
 \* No Above Ground Utilities Allowed



REFERENCES : 146-PLAN; ROPROD1; LEGEND;  
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**PROPOSED LEGEND**

(B) FULL DEPTH BITUMINOUS PAVEMENT	(J) SHOULDER	(15) SOODING	(22) CURB RAMP TYPE "N"
(C) CEMENT CONCRETE PAVEMENT FOR DRIVES	(7) MULTI-USE PATH (2.4m)	(16) CONCRETE CURB	(23) CURB RAMP TYPE "H"
(D) BITUMINOUS MIXTURE FOR APPROACHES	(8) MULTI-USE PATH (1.8m)	(17) CONCRETE CENTER CURB TYPE "C"	(24) CURB RAMP TYPE "G"
(E) BITUMINOUS PAVEMENT FOR DRIVES	(13) MODIFIED CONCRETE CURB	(20) CONCRETE CANTILEVER RETAINING WALL	(29) CURB RAMP TYPE "T"
(F) GRAVEL FOR DRIVES	(14) COMBINED CONC. CURB & GUTTER	(21) CURB RAMP TYPE "O"	

**1. Setter's Run Drain**

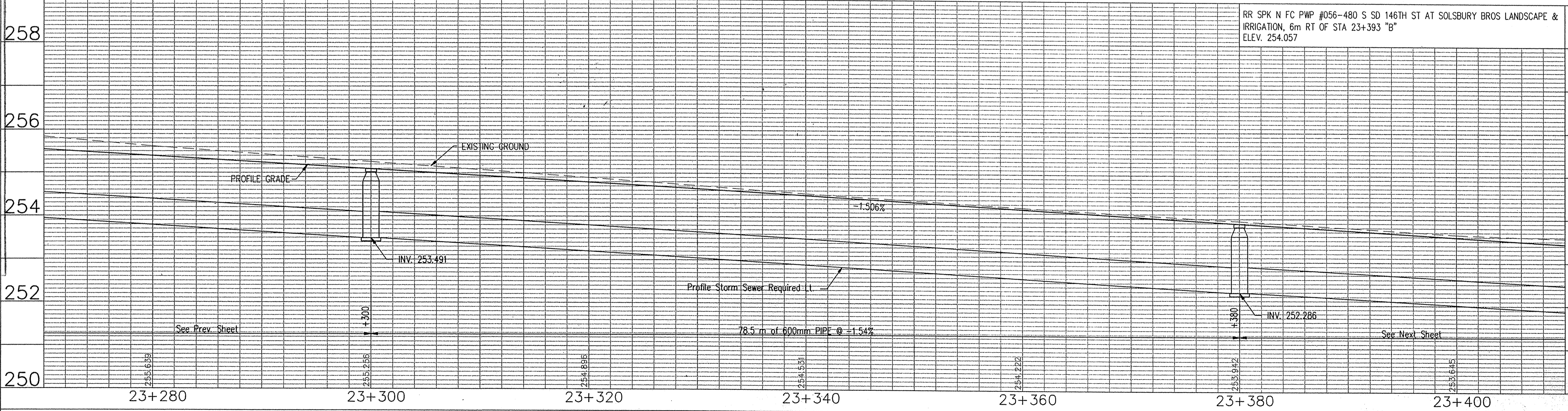
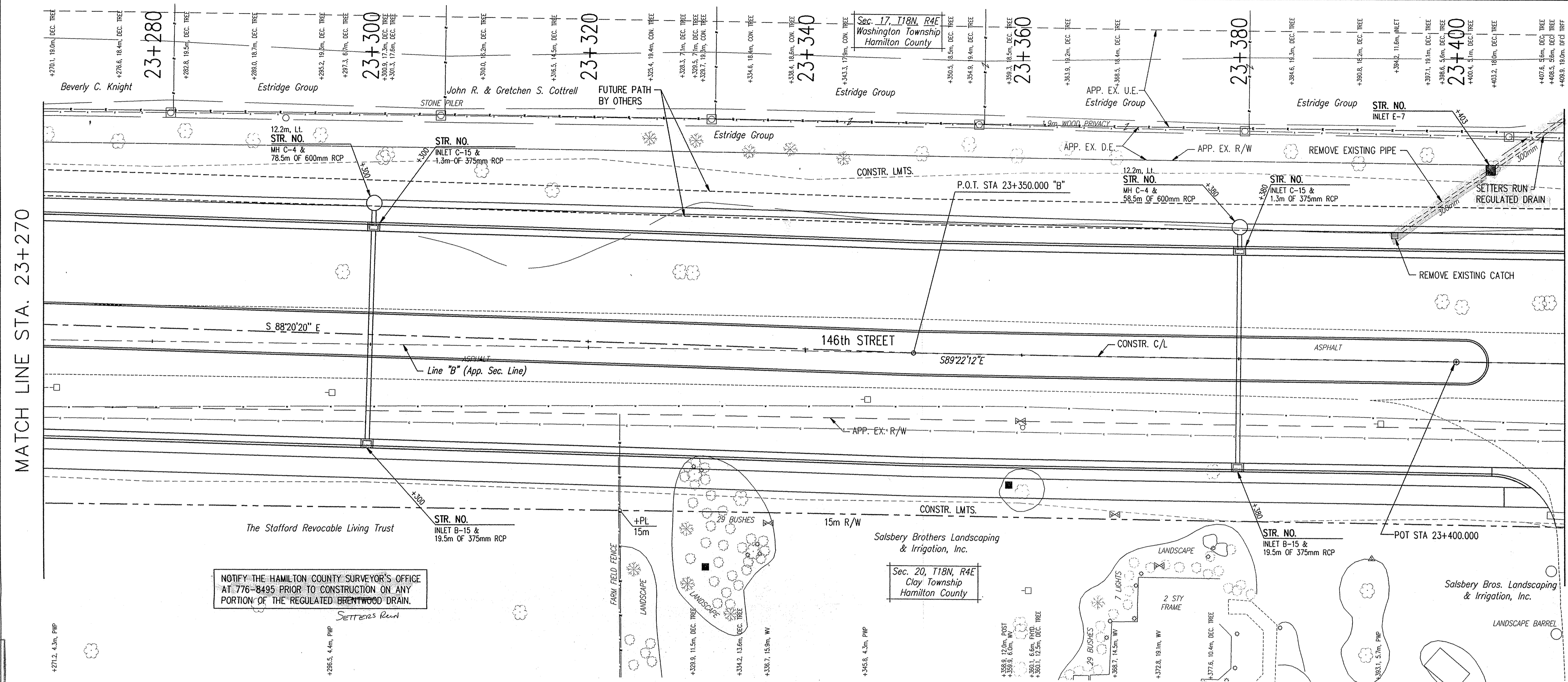
DESIGNED: IYS	DRAWN: MMY/KMW
CHECKED: RTS	CHECKED: IYS

**HAMILTON COUNTY  
 HIGHWAY DEPARTMENT**

**146TH STREET  
 PLAN & PROFILES**

HORIZONTAL SCALE 1:200	BRIDGE FILE
VERTICAL SCALE 1:50	DESIGNATION
SURVEY BOOK	SHEETS
CONTRACT	of PROJECT

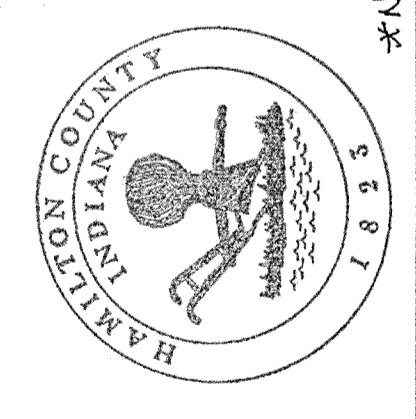
NO ABOVE GROUND UTILITIES WILL BE PERMITTED WITHIN THE FUTURE PATH AREA



**EXISTING LEGEND**

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⊙	STORM CURB INLET	⊙	TELE MANHOLE
⊙	STORM FLAT INLETS	⊙	TRAFFIC MANHOLE
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⊙	FENCES		
⊙	GUY WIRE		

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 Entry Date: 1-08-05  
 Entered by: SLM  
 \*No Above Ground Utilities Available



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**PROPOSED LEGEND**

Ⓟ	FULL DEPTH BITUMINOUS PAVEMENT	Ⓡ	SHOULDER	Ⓛ	SODDING	Ⓢ	CURB RAMP TYPE "N"
Ⓞ	CEMENT CONCRETE PAVEMENT FOR DRIVES	Ⓢ	MULTI-USE PATH (2.4m)	Ⓜ	CONCRETE CURB	Ⓣ	CURB RAMP TYPE "H"
Ⓞ	BITUMINOUS MIXTURE FOR APPROACHES	Ⓣ	MULTI-USE PATH (1.8m)	Ⓝ	CONCRETE CENTER CURB TYPE "C"	Ⓤ	CURB RAMP TYPE "G"
Ⓞ	BITUMINOUS PAVEMENT FOR DRIVES	Ⓞ	MODIFIED CONCRETE CURB	Ⓞ	CONCRETE CANTILEVER RETAINING WALL	Ⓥ	CURB RAMP TYPE "F"
Ⓞ	GRAVEL FOR DRIVES	Ⓟ	COMBINED CONC. CURB & GUTTER	Ⓟ	CURB RAMP TYPE "O"		

1. Seller's Run Drain

DESIGNED: IYS	DRAWN: MMY/KMW
CHECKED: RTS	CHECKED: IYS

**HAMILTON COUNTY HIGHWAY DEPARTMENT**

**146TH STREET PLAN & PROFILES**

HORIZONTAL SCALE	BRIDGE FILE
1:200	
VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEETS
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