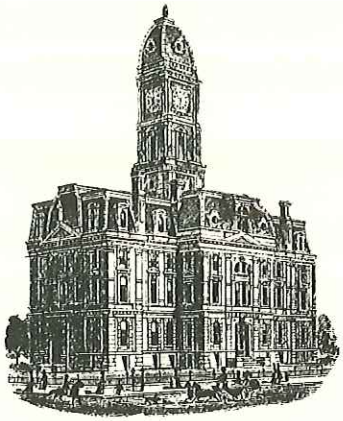

SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, CFM
Surveyor of Hamilton County
Phone (317) 776-8495
Fax (317) 776-9628

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

June 30, 2015

TO: Hamilton County Drainage Board

RE: Crooked Creek Drain, Extension of North Augusta Arm #2
(Primrose School of West Carmel)

Attached is a petition filed by Primrose Schools, along with plans, calculations, and quantity summary for an arm extension to the Crooked Creek Drain. This proposed drain is located in Clay Township. I have reviewed the submittals and petition and have found each to be in proper form.

I have made a personal inspection of the land described below. Upon doing so, I believe that the drain is practicable, will improve the public health, benefit a highway and be of public utility and that the costs, damages and expenses of the proposed drain will probably be less than the benefits accruing to the owners of land likely to be benefited. The drain will consist of the following:

36" RCP – 210 feet

The total length of the drain will be 210 feet.

The extension of this arm shall begin at Str. 609ex in the plans for Primrose School at West Carmel by HWC Engineering, Inc., having project number 2013-022, and last revision date of November 13, 2013. This structure is the terminus of the North Augusta Arm #2, per my report dated December 14, 2009, which was approved by the Board at hearing on February 22, 2010 (See Hamilton County Drainage Board Minutes Book 12, pages 421).

The cost of the arm is to be paid by the petitioner, Primrose Schools.

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I believe this proposed drain meets the requirements for Urban Drain Classification as set out in IC 36-9-27-67 to 69. Therefore, this drain shall be designated as an Urban Drain.

The parcels involved with this new arm extension are:

Parcel	Owner
17-13-07-04-01-005.000	AGA Real Estate, LLC
98th Street ROW	City of Carmel

The easement for the drain should be the existing drainage easement as shown on the secondary replat of Lots 63, 64, 65, and 66 in North Augusta 2nd Section, as recorded in the Office of the Hamilton County Recorder as instrument numbers 2015027993 in Plat Cabinet 5, Slide 355. An additional easement will be required when the parcel east of Primrose School is replatted or redeveloped in the future.

I recommend that the Board set a hearing for this arm on August 24, 2015.

Sincerely,

Kenton C. Ward, CFM
Hamilton County Surveyor

KCW/pll

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Gasb 34 Asset Price &
Drain Length Log

Drain-Improvement: North Augusta Arm 2 Extension

Drain Type:	Size:	Length	Length (DB Query)	Length Reconcile	If Applicable Price:	If Applicable Cost:
RCP	36"	210	210	Ø	$32.25	$6772.50
Sum:						$6,772.50

Final Report:_____

Comments:

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STATE OF INDIANA)
) ss:
COUNTY OF HAMILTON)

BEFORE THE HAMILTON COUNTY
DRAINAGE BOARD
NOBLESVILLE, INDIANA

IN THE MATTER OF THE
RECONSTRUCTION OF THE
Crooked Creek Drain, Extension of North Augusta Arm #2 (Primrose School of West Carmel)

FINDINGS AND ORDER FOR RECONSTRUCTION

The matter of the proposed Reconstruction of the ***Crooked Creek Drain, Extension of North Augusta Arm #2 (Primrose School of West Carmel)*** came before the Hamilton County Drainage Board for hearing ***on August 24, 2015,*** on the Reconstruction Report consisting of the report and the Schedule of Damages and Assessments. The Board also received and considered the written objection of an owner of certain lands affected by the proposed Reconstruction, said owner being:

Evidence was heard on the Reconstruction Report and on the aforementioned objections.

The Board, having considered the evidence and objections, and, upon motion duly made, seconded and unanimously carried, did find and determine that the costs, damages and expenses of the proposed Reconstruction will be less than the benefits accruing to the owners of all land benefited by the Reconstruction.

The Board having considered the evidence and objections, upon motion duly made, seconded and unanimously carried, did adopt the Schedule of Assessments as proposed, subject to amendment after inspection of the subject drain as it relates to the lands of any owners which may have been erroneously included or omitted from the Schedule of Assessments.

The Board further finds that it has jurisdiction of these proceedings and that all required notices have been duly given or published as required by law.

Wherefore, it is ORDERED, that the proposed Reconstruction of the ***Crooked Creek Drain, Extension of North Augusta Arm #2 (Primrose School of West Carmel)*** be and is hereby declared established.

Thereafter, the Board made inspection for the purpose of determining whether or not the lands of any owners had been erroneously included or excluded from the Schedule of Assessments. The Board finds on the basis of the reports and findings at this hearing as follows:

HAMILTON COUNTY DRAINAGE BOARD

PRESIDENT

Member

Member alt

ATTEST: Executive Secretary

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BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF

Crooked Creek Drain, Extension of North Augusta Arm 2
(Primrose School of West Carmel)

NOTICE

To Whom It May Concern and: _____

_____

_____

Notice is hereby given of the hearing of the Hamilton County Drainage Board concerning the reconstruction of the **Crooked Creek Drain, Extension of North Augusta Arm 2 (Primrose School of West Carmel)** on **August 24, 2015** at **9:05 A.M.** in Commissioners Court, Hamilton County Judicial Center, One Hamilton County Square, Noblesville, Indiana. Construction and maintenance reports of the Surveyor and the Schedule of Assessments proposed by the Drainage Board have been filed and are available for public inspection in the office of the Hamilton County Surveyor.

Hamilton County Drainage Board

Attest: Lynette Mosbaugh

ONE TIME ONLY

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STATE OF INDIANA)
) SS BEFORE THE HAMILTON
)
COUNTY OF HAMILTON) DRAINAGE BOARD

IN THE MATTER OF **Crooked Creek Drain, Extension of North Augusta Arm 2 (Primrose School of West Carmel)**

NOTICE

Notice is hereby given that the Hamilton County Drainage Board at its regular meeting **August 24, 2015** adopted the reconstruction report of the Surveyor and the Amended Schedule of damages and assessments including annual assessment for periodic maintenance, finding that the costs, damages and expense of the proposed improvement would be less than the benefits which will result to the owner of lands benefited thereby.

The Board issued an order declaring the proposed improvement established. Such findings and order were marked filed and are available for inspection in the Office of the Hamilton County Surveyor.

If judicial review of the findings and order of the Board is not requested pursuant to Article VIII of the 1965 Indiana Drainage Code as amended within twenty (20) days from the date of publication of this notice, the findings and order shall become conclusive.

HAMILTON COUNTY DRAINAGE BOARD

BY: Steven C. Dillinger
PRESIDENT

ATTEST: Lynette Mosbaugh
SECRETARY

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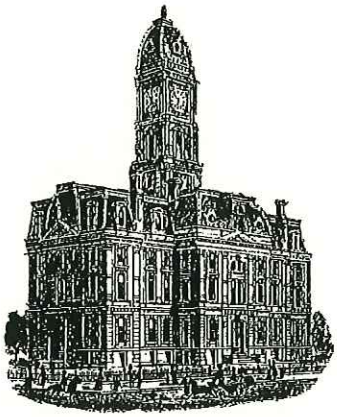
KLW



SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, CFM
Surveyor of Hamilton County
Phone (317) 776-8495
Fax (317) 776-9628

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

To: Hamilton County Drainage Board **September 16, 2015**

Re: Crooked Creek Drain: North August Arm 2 Ext. (Primrose School of West Carmel)

Attached are as-built, certificate of completion & compliance, and other information for Primrose School of West Carmel. An inspection of the drainage facilities for this section has been made and the facilities were found to be complete and acceptable.

During construction, changes were made to the drain, which will alter the plans submitted with my report for this drain-dated June 30, 2015. The report was approved by the Board at the hearing held August 24, 2015. (See Drainage Board Minutes Book 15)
The changes are as follows:
The 36" RCP was shortened from 210 feet to 208 feet. The length of the drain due to the changes described above is now **208 feet**.

The drainage easement for this drain is the existing drainage easement as show on the secondary plat. This was outlined in the original report to the Board. Sureties were not submitted for this project and it was paid for by the developer.

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

Sincerely,

Kenton C. Ward, CFM
Hamilton County Surveyor

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CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: Primrose School at West Carmel
3746 West 98th Street
Carmel, IN 46032 STR#609 - STR#610

I hereby certify that:

1. I am a Registered Land Surveyor or Engineer in the State of Indiana.
2. I am familiar with the plans and specifications for the above referenced subdivision.
3. I have personally observed and supervised the completion of the drainage facilities for the above referenced subdivision.
4. The drainage facilities within the above referenced subdivision to the best of my knowledge, information and belief have been installed and completed in conformity with all plans and specifications.
5. The drainage facilities within the above referenced subdivision to the best of my knowledge, information and belief have been correctly represented on the Record Drawings, Digital Record Drawings and the Structure Data Spreadsheet.

Signature: _____ Date: 11/21/14

Type or Print Name: Brandon T. Burke

Business Address: 151 N. Delaware St, Suite 800
Indianapolis, IN 46204

Telephone Number: 317-347-3663

SEAL

INDIANA REGISTRATION NUMBER
PE10000075

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SITE UTILITY PLAN KEYNOTES: (#) (NOT ALL KEY NOTES APPLY TO THIS SHEET)

DRAINAGE
D1. ROOF DRAIN SYSTEM – 6" PVC @ 0.50" MIN. SLOPE. ROOF DRAIN LEADER TO BE COORDINATED WITH ARCHITECT AND PLUMBING PLANS AND CONNECTED TO ROOF DOWNSPOUTS BY CONTRACTOR.

D2. STORM CLEANOUT.

D3. STORM STRUCTURE BY OTHERS. CONTRACTOR TO COORDINATE WITH WALNUT CREEK DRIVE EXTENSION.

D4. CONTRACTOR TO COORDINATE STORM STRUCTURE CONNECTION TO WALNUT CREEK DRIVE EXTENSION.

D5. 6" SSD PER CARMEL STANDARDS.

SANITARY SEWER
S1. 6" SDR35 SANITARY LATERAL, 1% MIN. CLEANOUT WITHIN 3' OF BUILDING. BUILDING LATERAL UNDER BUILDING PER PLUMBING PLANS.

S2. SANITARY LATERAL CLEANOUT. BUILDING LATERAL UNDER BUILDING PER PLUMBING PLANS.

WATER SERVICE
W1. CONNECT TO EXISTING 8" WATER MAIN. CONTRACTOR TO COORDINATE WITH CARMEL UTILITIES. CARMEL UTILITIES RESPONSIBLE FOR 8" WATER MAIN EXTENSION ALONG 98TH STREET.

W2. 2" WATER SHUTOFF VALVE.

W3. 6" COMBINED FIRE AND DOMESTIC SERVICE LINE. PER CARMEL UTILITIES AND FIRE DEPARTMENT SPECIFICATIONS.

W4. FIRE HYDRANT ASSEMBLY (BY CARMEL UTILITIES)

W5. POST INDICATOR VALVE

W6. 2" WATER METER

W7. 2" DOMESTIC WATER SERVICE LINE

W8. 6" FIRE LINE

W9. 4" WATER SERVICE LINE TO SIAMESE FIRE DEPARTMENT CONNECTION. FDC PER CARMEL FIRE DEPARTMENT STANDARDS.

W10. 6" WATER SHUTOFF VALVE.

W11. FIRE HYDRANT MARKER (BY CARMEL UTILITIES)

W12. 8" VALVE (BY CARMEL UTILITIES)

ELECTRIC SERVICE
E1. CONTRACTOR COORDINATE SERVICE CONNECTION FROM EX UTILITY POLE WITH POWER COMPANY.
E2. CONTRACTOR COORDINATE UNDERGROUND CONDUIT WITH POWER COMPANY.
E3. CONTRACTOR COORDINATE TRANSFORMER LOCATION WITH POWER COMPANY.
E4. CONTRACTOR COORDINATE ELECTRIC METER LOCATION WITH ARCHITECTURAL/MEP PLANS.

TELECOMMUNICATIONS
T1. CONTRACTOR COORDINATE TELEPHONE/CABLE CONNECTION FROM EX UTILITY POLE.
T2. CONTRACTOR COORDINATE 4" CONDUIT WITH PULL ROPE WITH CABLE/TELEPHONE COMPANY.
T3. CONTRACTOR COORDINATE TELELPHONE/CABLE BUILDING LOCATION WITH ARCHITECTURAL/MEP PLANS.

GAS SERVICE
G1. CONTRACTOR COORDINATE GAS SERVICE CONNECTION WITH GAS COMPANY.
G2. CONTRACTOR COORDINATE GAS SERVICE LINE WITH GAS COMPANY.
G3. CONTRACTOR COORDINATE GAS METER LOCATION WITH ARCHITECTURAL/MEP PLANS.

UTILITY NOTES:

1. THE PROPOSED BUILDINGS SHALL BE CONSTRUCTED ACCORDING TO ARCHITECTURAL CONSTRUCTION PLANS PREPARED BY:

CHILDREN'S DESIGN GROUP
1114 EAGLES CREEK WAY
ACWORTH, GA 30101
770-485-8496

REFER TO ARCHITECTURAL PLANS FOR ALL INFORMATION REGARDING UTILITY LAYOUT AND DETAILS WITHIN THE BUILDING AND EXTENDING OUT 5' FROM EXTERIOR FACE OF BUILDING. ALL MEP DESIGN AND COORDINATION IS THE RESPONSIBILITY OF ARCHITECT/CONTRACTOR. SITE WORK CONTRACTOR TO COORDINATE WITH ALL TRADES PRIOR TO START OF WORK.

2. SEE ARCHITECTURAL AND MECHANICAL PLANS FOR INFORMATION..

3. ALL EXCAVATED TRENCHES UNDER PROPOSED PAVED AREAS INCLUDING SIDEWALKS SHALL BE BACKFILLED WITH GRANULAR MATERIAL PER INDOT STANDARD SPECIFICATIONS, SECTION 211, AND COMPACTED IN LIFTS. GRANULAR MATERIAL SHALL EXTEND 5 FEET BEYOND THE LIMITS OF THE PAVED AREAS AT THE SURFACE WITH A 1:1 SLOPE OUTWARD TO THE BOTTOM OF THE TRENCH.

4. ALL WATER SERVICE AND SANITARY LINES SHALL BE IN CONFORMANCE WITH APPLICABLE INDIANA STATE DEPARTMENT OF HEALTH REGULATIONS AND GUIDELINES.

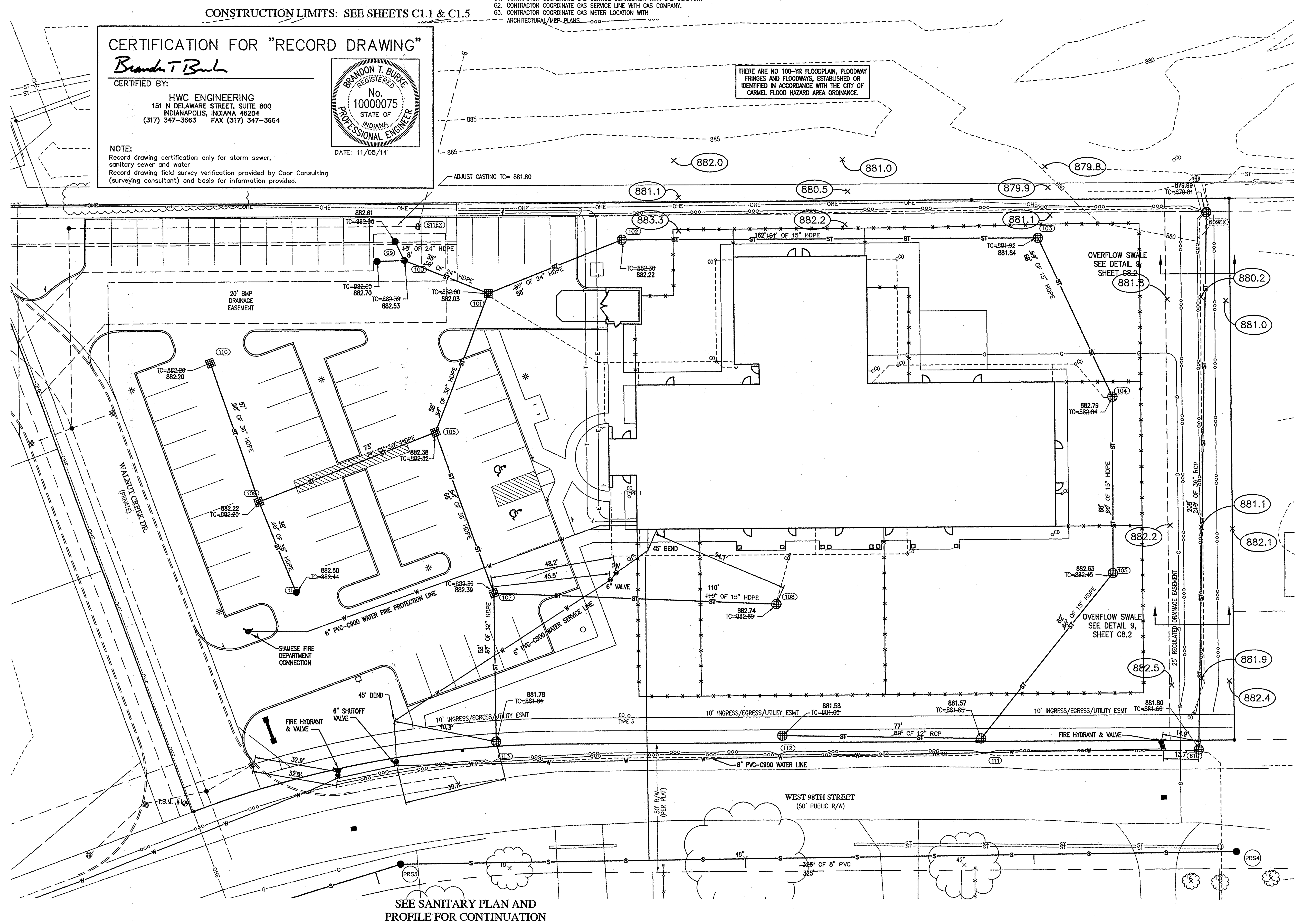
5. PROPOSED STORM SEWER SYSTEM SHALL BE PRIVATELY OWNED AND MAINTAINED.

LEGEND:

EXISTING		PROPOSED
	PROPERTY LINE	
	EASEMENT LINE	
ooo	SWALE / FLOWLINE	ooo
S	SANITARY SEWER	S
ST	STORM SEWER	ST
ST	STORM CULVERT	ST
W WV	WATER MAIN & VALVE	W WV
x	FENCE	x
	TREE	
(S)	SANITARY MANHOLE	(XXX)
(ST)	STORM MANHOLE	(XXX)
	STORM INLET	(XXX)
	STORM END SECTION	(XXX)
	FIRE HYDRANT	
	LIGHT POLE	
	SIGN	
	EXISTING TRANSFORMER	
	EXISTING TELEPHONE PEDISTAL	
	EXISTING GAS METER	
	SURVEY MONUMENT	

Indiana 811
KNOW WHAT'S BELOW.
CALL BEFORE YOU DIG.
Call 811 or 800-382-5544 Before you Dig!

GRAPHIC SCALE
0' 20' 40' 60'
(IN FEET)



WATER SYSTEM NOTES:

1. ALL WATER LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH CARMEL UTILTIES TYPICAL CONSTRUCTION SPECIFICATIONS AND DETAILS, AND SHALL MEET THE MINIMUM REQUIREMENTS OF THE INDIANA STATE BOARD OF HEALTH.

2. THE CONTRACTOR SHALL FURNISH, INSTALL AND TEST ALL GATE VALVES. VALVES SHALL BE INSTALLED WITH VALVE BOX ALIGNERS (POSI-CAPS) AND MUST BE CENTERED PRIOR TO ACCEPTANCE. VALVE OPENING DIRECTION SHALL BE RIGHT-HAND OPEN/COUNTERCLOCKWISE.

3. WATER MAINS AND SERVICE LINES SHALL HAVE A MINIMUM OF 4'-5" OF COVER OVER THE TOP OF THE PIPE. A MINIMUM OF 18-INCHES VERTICAL SEPARATION AND 10-0" HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN WATER MAINS AND SEWERS (SANITARY AND STORM). PIPE DEPTHS SHOWN ON THESE PLANS ARE REFERENCED TO THE INVERT OF PIPE.

4. THE PROPOSED WATER MAIN WILL BE CONNECTED TO AN EXISTING PUBLIC WATER MAIN. THE CONTRACTOR SHALL PERFORM ALL THE WORK ASSOCIATED WITH CONNECTIONS TO THE EXISTING FACILITIES. THE CONTRACTOR SHALL COORDINATE THE CLOSURE OF VALVES, INSPECTION, AND ALL SERVICE SHUT-OFFS WITH CARMEL UTILITIES.

5. TRENCHES UNDER PAVED AREAS SHALL BE BACKFILLED AND COMPACTED IN LIFTS WITH "B-BORROW" OR APPROVED GRANULAR MATERIAL PER INDOT STANDARD SPECIFICATION SECTION 211. GRANULAR MATERIAL SHALL EXTEND 5 FEET BEYOND THE LIMITS OF THE PAVED AREA WITH A 1:1 SLOPE OUTWARD TO THE BOTTOM OF THE TRENCH.

6. THE COMPLETED WATER MAIN SHALL BE TESTED AND DISINFECTED IN ACCORDANCE WITH CARMEL UTILITIES REQUIREMENTS.

SANITARY SEWER NOTES:

1. THE SANITARY SEWER SHALL MEET THE REQUIREMENTS OF THE CLAY TOWNSHIP REGIONAL WASTE DISTRICT, INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (IDEM) AND INDIANA STATE DEPARTMENT OF HEALTH FOR SANITARY SEWER COLLECTION SYSTEMS. SANITARY SEWERS TO BE CONSTRUCTED OF POLYVINYL CHLORIDE (PVC) SDR-35 PIPE AND SHALL MEET OR EXCEED ASTM D-3034 OR ASTM 679 AS APPLICABLE. JOINTS SHALL BE GASKETED BELL AND SPIGOT TYPE WITH THE BELL MADE INTEGRAL WITH THE PIPE. SANITARY SEWERS SHALL BE SDR-26 PIPE FOR DEPTHS OF 12 FT OR GREATER.

2. SANITARY SEWER LATERALS FOR BUILDING CONNECTIONS SHALL BE 6" DIAMETER PVC SDR-35 CONFORMING TO ASTM D-3034, LAID AT A MINIMUM SLOPE OF 1.00%.

3. THE COMPLETED SANITARY SEWER SHALL BE HIGH PRESSURE WATER JET CLEANED AND TESTED IN ACCORDANCE WITH DISTRICT REQUIREMENTS. ALL COSTS OF CLEANING AND TESTING ARE TO BE BORNE BY THE CONTRACTOR.

4. A MINIMUM OF 18" VERTICAL SEPARATION AND 10'-0" HORIZONTAL SEPARATION TO BE MAINTAINED BETWEEN THE WATER MAINS, HYDRANTS AND SEWERS (SANITARY AND STORM).

5. TRENCHES UNDER PAVED AREAS (EXCLUDING SIDEWALKS) SHALL BE BACKFILLED WITH GRANULAR MATERIAL PER INDIANA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", CURRENT EDITION, SECTION 211, AND COMPACTED IN LIFTS. GRANULAR MATERIAL SHALL EXTEND 5 FT BEYOND THE LIMITS OF THE PAVED AREA WITH A 1:1 OUTWARD SLOPE TO THE BOTTOM OF THE TRENCH.

6. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND THE PIPE INVERT DEPTH WHERE THE PROPOSED CONNECTION IS MADE TO THE EXISTING SANITARY SEWER. VERTICAL DEVIATIONS GREATER THAN 0.1 FT. AND HORIZONTAL DEVIATIONS GREATER THAN 1.0 FT. SHALL BE REPORTED TO THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION AT THAT LOCATION.

STORM SEWER NOTES:

1. CONSTRUCTION OF STORM DRAINS SHALL BE IN ACCORDANCE WITH SECTION 715 OF THE INDOT STANDARD SPECIFICATIONS AND SUPPLEMENTAL SPECIFICATIONS. ALL MAIN LINE STORM SEWER PIPE SHALL BE CONSTRUCTED OF REINFORCED CONCRETE PIPE (RCP). STORM DRAIN PIPE FOR ROOF DOWNSPOUT AND OTHER MISCELLANEOUS CONNECTIONS SHALL BE CONSTRUCTED OF POLYVINYL CHLORIDE PIPE (PVC SDR-35), IF APPLICABLE.

2. TRENCHES UNDER PAVED STREET AREAS SHALL BE BACKFILLED AND COMPACTED WITH "B" BORROW OR APPROVED GRANULAR MATERIAL PER INDOT STANDARD SPECIFICATIONS. GRANULAR MATERIAL SHALL EXTEND 5 FEET BEYOND THE PAVEMENT WITH A 1:1 SLOPE OUTWARD TO THE BOTTOM OF THE TRENCH.

3. THE CONTRACTOR SHALL NOTIFY THE CITY AT LEAST 48 HOURS PRIOR TO ANY STORM SEWER EXCAVATION OR CONSTRUCTION. HAMILTON COUNTY SURVEYORS OFFICE AND CARMEL ENGINEERING DEPARTMENT APPROVAL IS REQUIRED BEFORE ANY MODIFICATIONS OR IMPROVEMENTS TO THE SITE DRAINAGE

4. ALL STORM DRAINS CROSSING WITHIN 18" VERTICALLY OF A SANITARY SEWER OR WATER MAIN SHALL HAVE A CONCRETE SPACER BLOCK POURED BETWEEN THE PIPES. WHERE WATER LINES AND SEWER LINES RUN PARALLEL WITH EACH OTHER, A MINIMUM OF 10 FEET HORIZONTAL SEPARATION SHALL BE MAINTAINED.

5. PRIMARY DRAINAGE SYSTEM SHALL BE CONSTRUCTED OF REINFORCED CONCRETE PIPE (ASTM A-76) UNLESS SPECIFICALLY NOTED OTHERWISE. PIPE FOR ROOF DRAINAGE CONNECTIONS AND SECONDARY SURFACE INLETS SHALL BE CONSTRUCTED OF PVC SDR-35 OR APPROVED EQUAL. JOINTS SHALL BE GASKETED BELL AND SPIGOT TYPE WITH THE BELL END MADE INTEGRAL WITH THE PIPE. ROOF DRAIN PIPES BETWEEN THE BUILDING AND THE STORM STRUCTURES MAY HAVE VARIABLE SLOPES BASED ON UPSTREAM AND DOWNSTREAM INVERTS SHOWN ON THE PLANS AND POINT OF CONNECTION TO THE ROOF DOWNSPOUTS. SEE ARCHITECTURAL PLANS FOR INFORMATION REGARDING THE BUILDING ROOF DRAINS AND DOWNSPOUTS. PIPE MATERIAL SUBSTITUTIONS SHALL BE REQUESTED IN WRITING TO THE ENGINEER. INLETS, JUNCTION BOXES, AND MANHOLES MUST BE SIZED PROPERLY TO ACCOMMODATE THE PIPES CALLED FOR.

6. PIPE LENGTHS SHOWN ON THE DRAWINGS ARE FOR HYDRAULIC CALCULATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING EXACT PIPE LENGTHS REQUIRED FOR INSTALLATION.

BENCHMARK INFORMATION:

ORIGINATING BENCHMARK: HAMILTON COUNTY GEODETIC CONTROL DISK (HCBR 281) BRASS DISK SET IN THE NORTHEAST WINGWALL OF CONSPAN THREE-SIDED ARCH BRIDGE STRUCTURE (STR. NO. 281) CARING 96TH STREET OVER CROOKED CREEK. ELEVATION=871.54

TBM #1: RAILROAD SPIKE SET IN UTILITY POLE LOCATED AT THE SOUTHWEST CORNER OF LOT 63 AS SHOWN HEREON. ELEVATION=883.60

TBM #2: TOP OF STORM MANHOLE LOCATED ±35' NORTH AND ±30' WEST OF THE NORTHWEST CORNER OF LOT 63 AS SHOWN HEREON. ELEVATION=883.84

CARMEL GENERAL NOTES:

1. IF IT WILL BE NECESSARY TO RELOCATE EXISTING UTILITIES, THE EXPENSE OF SUCH RELOCATION SHALL BE THE RESPONSIBILITY OF THE DEVELOPER. ALL UTILITY POLES SHALL BE LOCATED WITHIN ONE FOOT OF THE PROPOSED RIGHT-OF-WAY.

2. NO EARTH DISTURBING ACTIVITY MAY COMMENCE WITHOUT AN APPROVED STORM WATER MANAGEMENT PERMIT.

3. ANY ROAD CLOSURES REQUIRE BOARD OF PUBLIC WORKS AND SAFETY APPROVAL.

REVISIONS

DATE	DESCRIPTION	BY
6/3/13	REVISED PER TAC COMMENTS	TD
7/25/13	REVISED PER CTRWD COMMENTS	TD
9/27/13	REVISED PER VARIOUS AGENCY COMMENTS	HWC
11/11/13	REVISED PER VARIOUS AGENCY COMMENTS	SMD
11/19/13	REVISED PER SWPPP REVIEW COMMENTS	HWC
1/24/14	REVISED 21" STORM PIPE TO 24" STORM PIPE	SMD
11/15/14	RECORD DRAWING	DC

HWC ENGINEERING
INDIANAPOLIS - TERRE HAUTE
LAFAYETTE - SCOTTSBURG - NOBLESVILLE
www.hwcengineering.com

PRIMROSE SCHOOL AT WEST CARMEL
CARMEL, IN

SITE DRAINAGE AND UTILITY PLAN

HAMILTON COUNTY INDIANA SURVEYOR
This Information was gathered for input into the Hamilton County Geographic Information System (GIS). This document is considered an official record of the GIS.
Entry Date: Sept 2015
Entered By: SLM

DRAWN BY TD, TG	JOB NUMBER 2013-022
CHECKED BY BB	
DATE MARCH 2013	
SCALE AS SHOWN	
SHEET C1.4	

SITE DRAINAGE AND UTILITY PLAN

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CERTIFICATION FOR "RECORD DRAWING"

Brandon T Burke

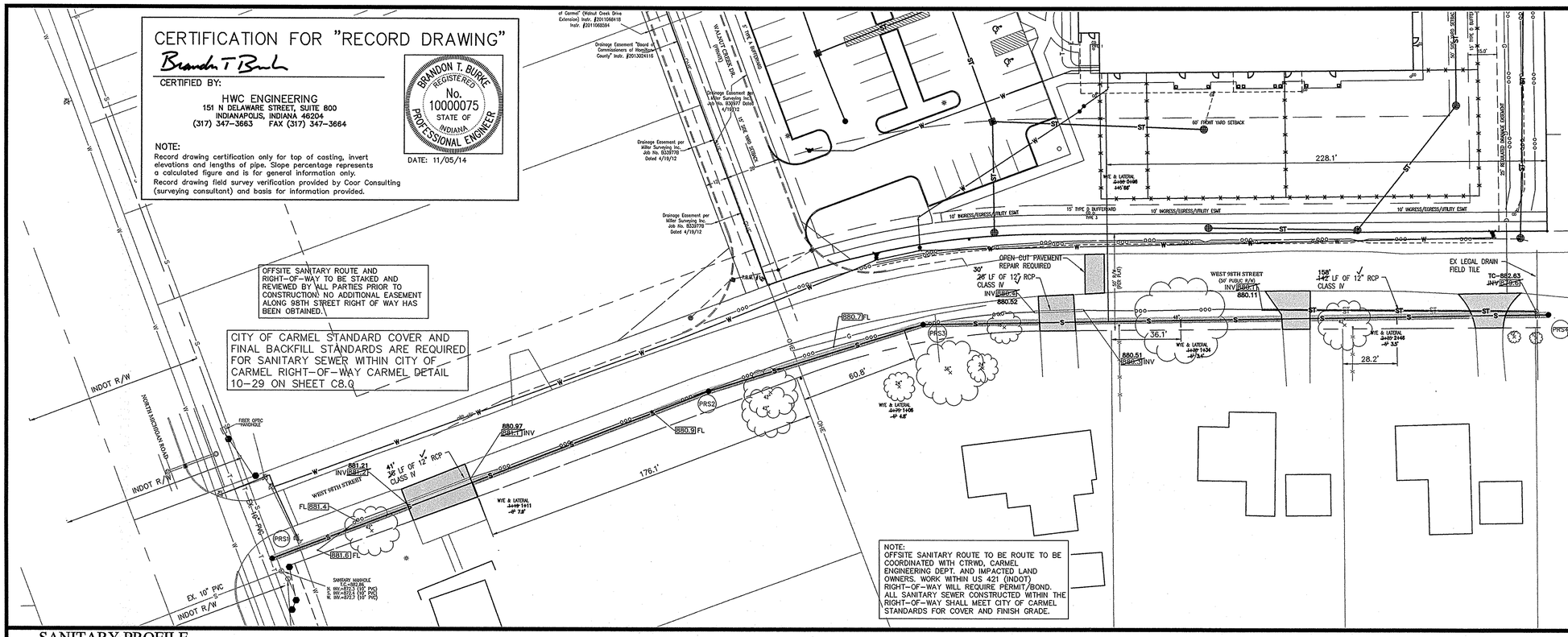
CERTIFIED BY:

HWC ENGINEERING
151 N DELAWARE STREET, SUITE 800
INDIANAPOLIS, INDIANA 46204
(317) 347-3663 FAX (317) 347-3664

BRANDON T. BURKE
REGISTERED
No. 10000075
STATE OF INDIANA
PROFESSIONAL ENGINEER

DATE: 11/05/14

NOTE:
Record drawing certification only for top of casting, invert elevations and lengths of pipe. Slope percentage represents a calculated figure and is for general information only.
Record drawing field survey verification provided by Coor Consulting (surveying consultant) and basis for information provided.



GRAPHIC SCALE

0' 30' 60' 90'

(IN FEET)

SANITARY SEWER KEYNOTES: (#)

GENERAL NOTE: CONTRACTOR TO STAKE RIGHT-OF-WAY LIMITS AND TAKE ALL PRECAUTIONS NECASSARY TO NOT DISTURB 98TH STREET OR PROPERTY OUTSIDE RIGHT-OF-WAY LIMITS. CONTRACTOR RESPONSIBLE TO REPAIR/RESTORE DAMAGE.

ORIENT CASTINGS AWAY FROM SWALE. ADJUST 1.0' ABOVE FLOWLINE AND USE WATERTIGHT BOLTED CASTINGS NEAR SWALES.

S1. TREE TO BE REMOVED WITHIN RIGHT-OF-WAY.

S2. TREE TO REMAIN. CONTRACTOR TO TAKE REASONABLE CARE TO NOT DAMAGE TREE. TRENCH WIDTH TO BE MINIMIZED AND UTILIZE NATIONAL ARBORIST STANDARDS FOR CUTTING TREE ROOTS, MINIMIZE OPEN TRENCH EXPOSURE TIME AND ROOT MOISTURE CONTROL CONTRACTOR TO INSTALL ORANGE TREE PROTECTION FENCE PRIOR TO CONSTRUCTION.

S3. TREE(S) TO REMAIN. CONTRACTOR TO INSTALL ORANGE TREE PROTECTION FENCE PRIOR TO CONSTRUCTION.

S4. CONTRACTOR TO COORDINATE CONSTRUCTION WITH PROPERTY OWNER. SAW CUT AND REMOVE EXISTING DRIVEWAY WITHIN RIGHT-OF-WAY. REMOVE EXISTING CMP CULVERT. CONTRACTOR TO INSTALL NEW CMP CULVERT AND INSTALL NEW CONCRETE DRIVE (MATCH EX MATERIAL).

S5. CONTRACTOR TO COORDINATE CONSTRUCTION WITH PROPERTY OWNER. REMOVE EXISTING DRIVEWAY WITHIN RIGHT-OF-WAY. REMOVE EXISTING CMP CULVERT. CONTRACTOR TO INSTALL NEW 12" CMP CULVERT AND INSTALL NEW GRAVEL DRIVE (MATCH EX MATERIAL).

S6. CONTRACTOR TO COORDINATE CONSTRUCTION WITH PROPERTY OWNER. SAW CUT AND REMOVE EXISTING DRIVEWAY WITHIN RIGHT-OF-WAY. REMOVE EXISTING CMP CULVERT. CONTRACTOR TO INSTALL NEW 12" CMP CULVERT AND INSTALL NEW ASPHALT DRIVE (MATCH EX MATERIAL).

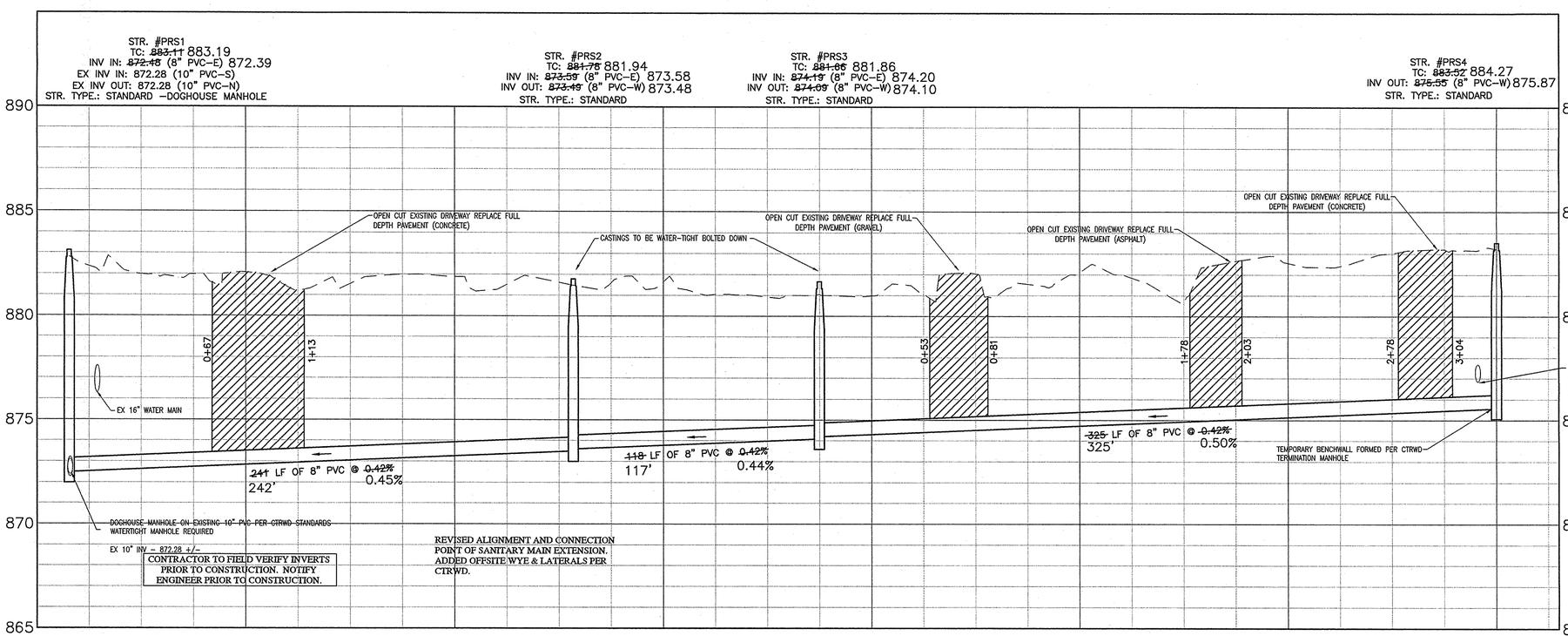
S7. INSTALL EROSION CONTROL INLET PROTECTION PRIOR TO CONSTRUCTION.

S8. INSTALL NEW 12" RCP (CLASS IV) TO EXISTING BEEHIVE STORM STRUCTURE AND GROUT. CONTRACTOR TO COORDINATE WITH HAMILTON COUNTY SURVEYORS OFFICE AND CLEAN STRUCTURE AND EXISTING LEGAL DRAIN FIELD TILE TO ENSURE PROPER FLOW THROUGH FIELD TILE FLOWING NORTH FROM SOUTH.

CONTRACTOR SHALL VERIFY THE CONDITION OF THE EXISTING FIELD TILE UNDER 98TH STREET, AN CARMEL ENGINEERING DEPARTMENT INSPECTOR MUST BE PRESENT DURING INSPECTION. IF DETERMINED WARRANTED BY CARMEL INSPECTOR, FULL REPLACEMENT OF TILE WITH CONCRETE PIPE PER CITY STANDARDS MAY BE REQUIRED FROM STRUCTURE #610 TO THE EXISTING BEEHIVE ON SOUTH SIDE OF 98TH STREET.

SANITARY PROFILE

VERTICAL SCALE: 1" = 3'
HORIZONTAL SCALE: 1" = 30'



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LEGEND:

EXISTING		PROPOSED
	RIGHT-OF-WAY LINE	
	EASEMENT LINE	
	SETBACK LINE	
	CENTERLINE	
	SWALE / FLOWLINE	
	SUBSURFACE DRAIN	
S	SANITARY SEWER	S
ST	STORM SEWER	ST
ST	STORM CULVERT	ST
W	WATER MAIN	W
(S)	SANITARY MANHOLE	(XXX)
(ST)	STORM MANHOLE	(XXX)
	STORM INLET	(XXX)
	STORM END SECTION	(XXX)
	FIRE HYDRANT	
	PROFILED PIPELINE	S

EX - EXISTING
INV - INVERT ELEVATION
MH - MANHOLE
PVC - POLYVINYL CHLORIDE PIPE
TC - TOP OF CASTING GRADE

GRANULAR BACKFILL
EXISTING GRADE
PROPOSED GRADE

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Entry Date: Sept 2015
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REVISIONS		
DATE	DESCRIPTION	BY
6/3/13	REVISED PER TAC COMMENTS	TD
7/25/13	REVISED PER CTRWD COMMENTS	TD
8/26/13	REVISED PER CTRWD COMMENTS	TD
9/17/13	REVISED PER CTRWD COMMENTS	TD
10/21/13	REVISED PER CTRWD COMMENTS	TD
04/10/14	ADJUSTED PRS3 10 FT WEST PER FIELD	TD
11/05/14	RECORD DRAWING	DC

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SANITARY SEWER PLAN & PROFILE

DRAWN BY TD, TG	JOB NUMBER 2013-022
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DATE MARCH 2013	
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SANITARY SEWER PLAN & PROFILE

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4. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL EXISTING ELEVATIONS BEFORE CONSTRUCTION BEGINS.
5. THE STORM SEWER SYSTEM SHALL BE CONSTRUCTED PER DESIGN SPECIFIED AND AS APPROVED BY THE CITY OF CARMEL ON THE FINAL APPROVED CONSTRUCTION PLANS. DEVIATIONS FROM THE APPROVED DESIGN SHALL ONLY BE PERMITTED DUE TO SPECIAL CIRCUMSTANCES OR DIFFICULTY DURING CONSTRUCTION AND WILL REQUIRE PRIOR FIELD APPROVAL FROM A DESIGNATED REPRESENTATIVE OF THE CITY OF CARMEL IN ADDITION TO SUPPLEMENTAL APPROVAL BY THE DESIGN ENGINEER. AN EXPLANATION OF ANY SUCH DEVIATION SHALL BE INCLUDED AS A REQUIREMENT ON AS-BUILT/RECORD DRAWINGS SUBMITTED FOR RELEASE OF PERFORMANCE GUARANTEES. APPROVED DESIGN SLOPES IDENTIFIED AS GENERATING VELOCITIES OF 2.5 FPS OR LESS OR 10 FPS OR GREATER (AT FULL FLOW CAPACITY) SHALL REQUIRE AS-BUILT CERTIFICATION AT THE TIME OF CONSTRUCTION, PRIOR TO BACKFILLING THE PIPE. THE CONTRACTOR IS INSTRUCTED TO AS-BUILT EACH SECTION OF STORM PIPE AS IT IS BEING INSTALLED TO ENSURE COMPLIANCE WITH THE DESIGN PLANS AND AS APPROVED BY THE CITY OF CARMEL.
6. NO EARTH DISTURBING ACTIVITY MAY COMMENCE WITHOUT AN APPROVED STORM WATER MANAGEMENT PERMIT.
7. ALL STORMWATER DRAINAGE CASTINGS SHALL BE LABELED WITH ENVIRONMENTAL MESSAGING "DUMP NO WASTE"
8. ALL CONCRETE PIPE JOINTS SHALL BE CONTINUOUS O-RING RUBBER GASKET CONFORMING TO ASTM C 443
9. 18" OF VERTICAL SEPARATION MUST BE MAINTAINED FOR ALL UTILITY CROSSINGS.

NOTE A: NYLOPLAST 30" PEDESTRIAN GRATE W/ LOCKING COVER. SEE DETAIL 5 ON SHEET C8.2.

STR. #	TO STR. #	TC	INV (UP)	INV. (DOWN)	PIPE LENGTH (FT)	PIPE DIA. (IN)	PIPE MATERIAL	STR. TYPE	CASTING TYPE
100	611	882.39	874.94	874.90	13	24	HDPE	DIVERSION STR	NEENAH R-1772-A
101	100	882.30	875.14	875.04	30	24	HDPE	4' DIA. MANHOLE	NEENAH R-3339-A
102	101	882.30	875.58	875.39	57	24	HDPE	30" DIA. NYLOPLAST	SEE NOTE A BELOW
103	102	882.74	876.24	875.68	161	15	HDPE	30" DIA. NYLOPLAST	SEE NOTE A BELOW
104	103	882.84	876.54	876.31	69	15	HDPE	30" DIA. NYLOPLAST	SEE NOTE A BELOW
105	104	882.45	876.87	876.64	69	15	HDPE	30" DIA. NYLOPLAST	SEE NOTE A BELOW
106	101	882.32	875.47	875.24	[illegible]	36	HDPE	6' DIA. MANHOLE	NEENAH R-3339-A
107	106	882.30	875.83	875.57	[illegible]	36	HDPE	5' DIA. MANHOLE	NEENAH R-3339-A
108	107	882.69	879.45	878.35	110	15	HDPE	30" DIA. NYLOPLAST	SEE NOTE A BELOW
109	106	882.20	875.91	[illegible]	71	36	HDPE	6' DIA. MANHOLE	NEENAH R-3339-A
110	109	882.20	876.25	876.02	58	36	HDPE	5' DIA. MANHOLE	NEENAH R-3339-A
111	105	881.60	[illegible]	876.97	85	15	HDPE	2'X2' INLET	NEENAH R-4353
112	111	[illegible]	877.59	877.35	80	12	RCP	2'X2' INLET	NEENAH R-4363
113	112	881.60	877.50	877.30	67	12	HDPE	2'X2' INLET	NEENAH R-4363
114	109	882.44	876.18	876.02	40	36	HDPE	5' DIA. MANHOLE	NEENAH R-1772-A
610	609 EX	881.60	874.64	874.30	210	36	RCP	5' DIA. MANHOLE	NEENAH R-4[illegible]

CERTIFICATION FOR "RECORD DRAWING"

Brandon T Burke

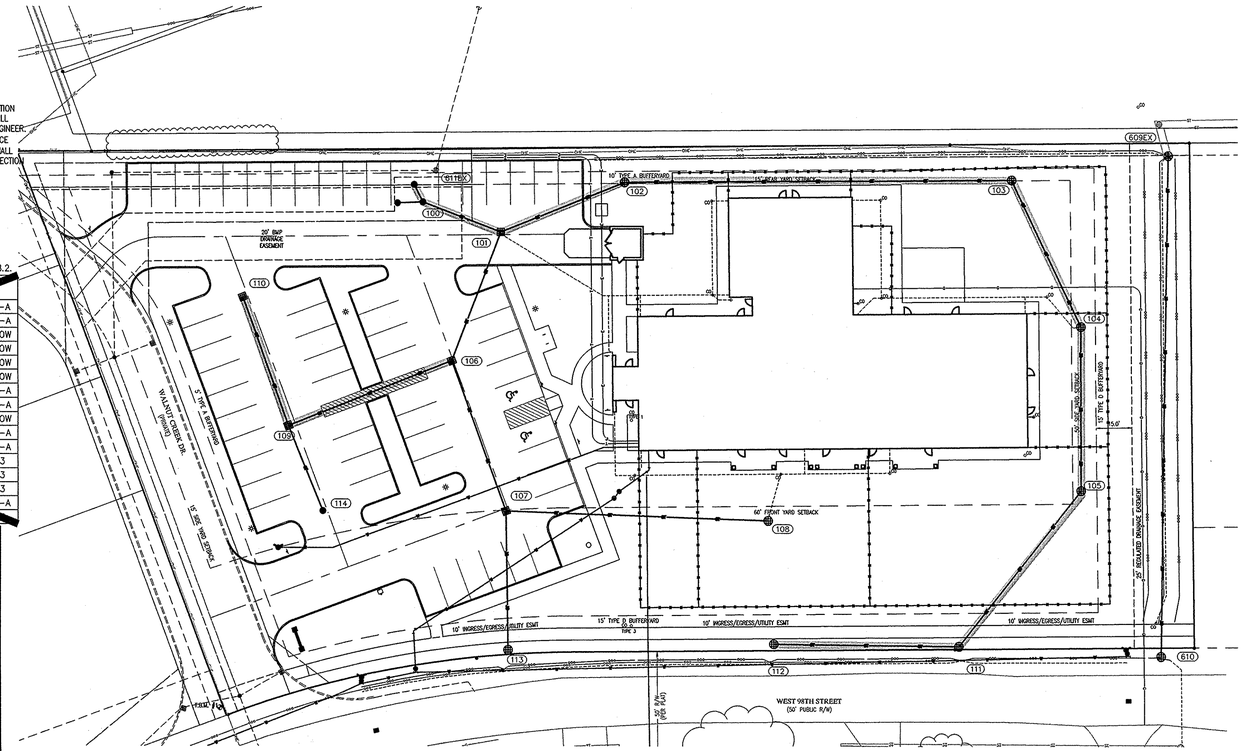
CERTIFIED BY:

HWC ENGINEERING
151 N DELAWARE STREET, SUITE 800
INDIANAPOLIS, INDIANA 46204
(317) 347-3663 FAX (317) 347-3664

BRANDON T. BURKE REGISTERED No. 10000075 STATE OF INDIANA PROFESSIONAL ENGINEER

DATE: 11/05/14

NOTE:
Record drawing certification only for top of casting, invert elevations and lengths of pipe. Slope percentage represents a calculated figure and is for general information only.
Record drawing field survey verification provided by Coor Consulting (surveying consultant) and basis for information provided.



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GRAPHIC SCALE
0' 30' 60' 90'
(IN FEET)

LEGEND:

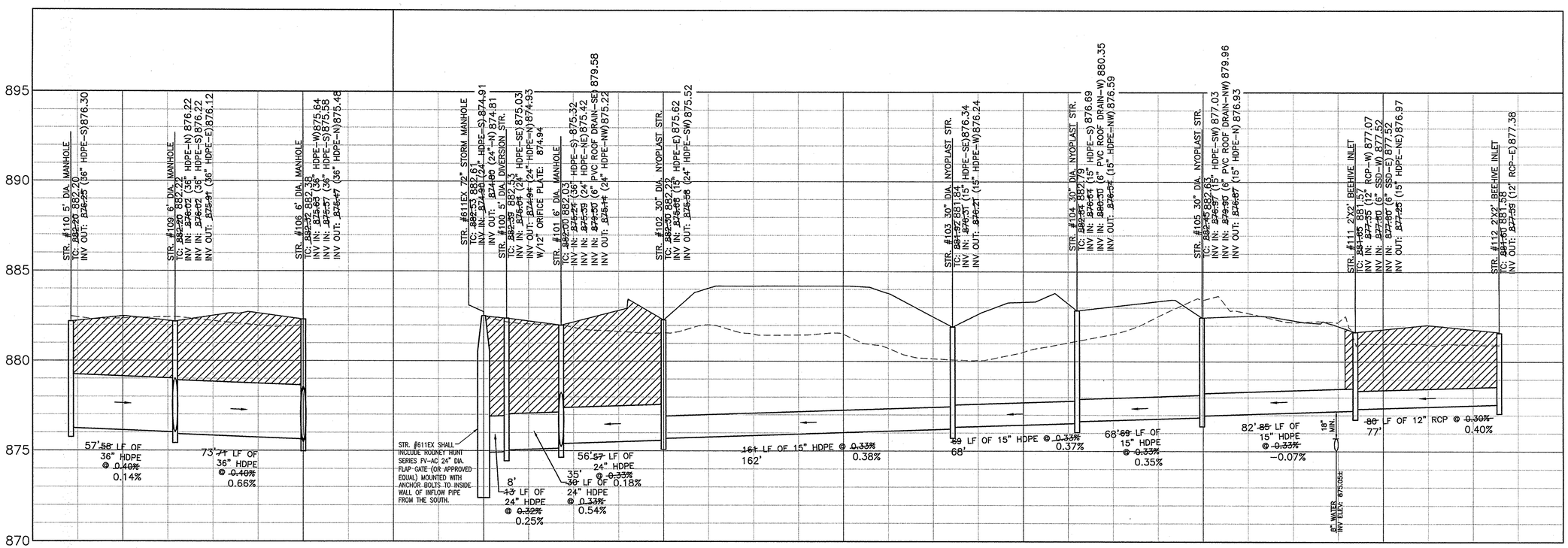
EXISTING		PROPOSED
	RIGHT-OF-WAY LINE	
	EASEMENT LINE	
	SETBACK LINE	
	CENTERLINE	
	SWALE / FLOWLINE	
	SUBSURFACE DRAIN	
	SANITARY SEWER	
	STORM SEWER	
	STORM CULVERT	
	WATER MAIN	
(S)	SANITARY MANHOLE	(XXX)
(ST)	STORM MANHOLE	(XXX)
	STORM INLET	(XXX)
	STORM END SECTION	(XXX)
	FIRE HYDRANT	
	PROFILED PIPELINE	

EX – EXISTING
INV – INVERT ELEVATION
MH – MANHOLE
RCP – REINFORCED CONCRETE PIPE
TC – TOP OF CASTING GRADE

STORM PROFILE

VERTICAL SCALE: 1" = 3'
HORIZONTAL SCALE: 1" = 30'

GRANULAR BACKFILL
EXISTING GRADE
PROPOSED GRADE



REVISIONS

DATE	DESCRIPTION	BY
6/3/13	REVISED PER TAC COMMENTS	TD
6/3/13	REVISED PER TAC COMMENTS	TD
9/30/13	REVISED PER VARIOUS AGENCY COMMENTS	HWC
11/11/13	REVISED PER VARIOUS AGENCY COMMENTS	SMD
1/24/14	REVISED 21" STORM PIPE TO 24" STORM PIPE	SMD
11/05/14	RECORD DRAWING	DC

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CARMEL, IN

STORM SEWER PLAN & PROFILE

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Entry Date: Sept 2015
Entered By: SLM

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CHECKED BY BB	
DATE MARCH 2013	
SCALE AS SHOWN	
SHEET C6.0 STORM SEWER PLAN & PROFILE	

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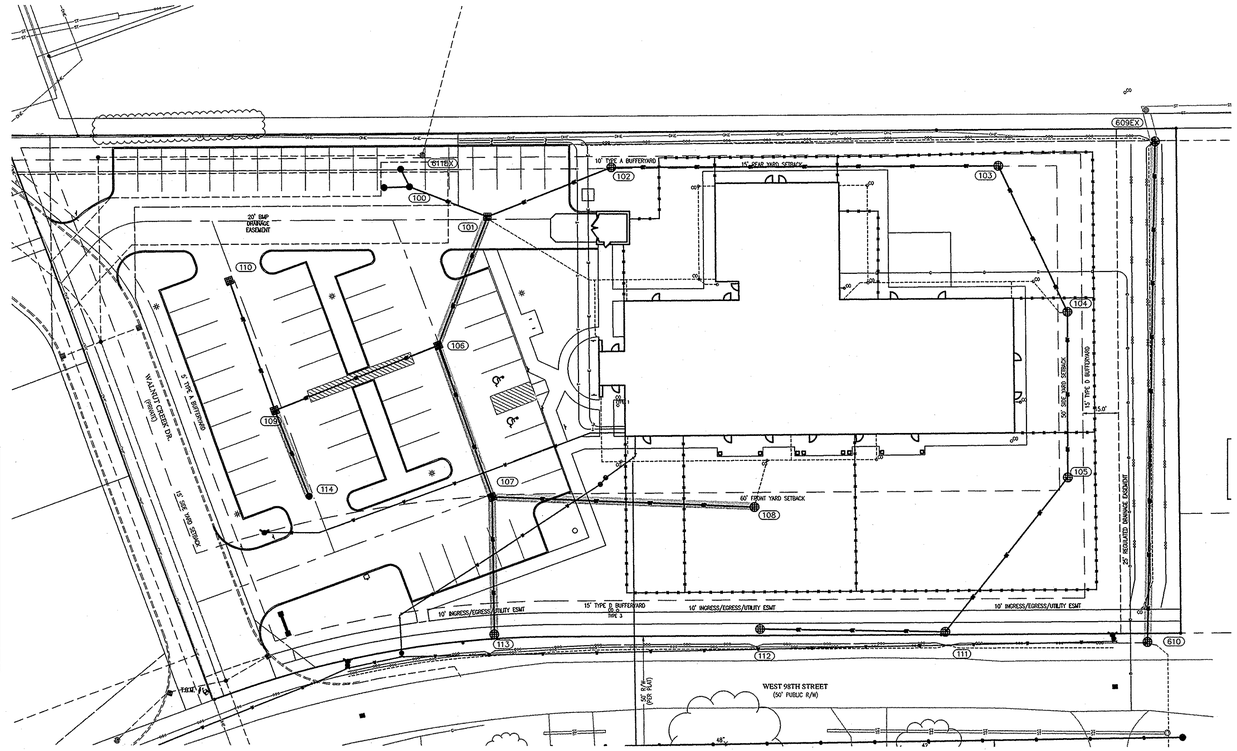

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GRAPHIC SCALE
0' 30' 60' 90'
(IN FEET)

LEGEND:

EXISTING		PROPOSED
	RIGHT-OF-WAY LINE	
	EASEMENT LINE	
	SETBACK LINE	
	CENTERLINE	
	SWALE / FLOWLINE	
	SUBSURFACE DRAIN	
	SANITARY SEWER	
	STORM SEWER	
	STORM CULVERT	
	WATER MAIN	
S	SANITARY MANHOLE	XXX
ST	STORM MANHOLE	XXX
	STORM INLET	XXX
	STORM END SECTION	XXX
	FIRE HYDRANT	
	PROFILED PIPELINE	

EX – EXISTING
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MH – MANHOLE
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DATE: 11/05/14

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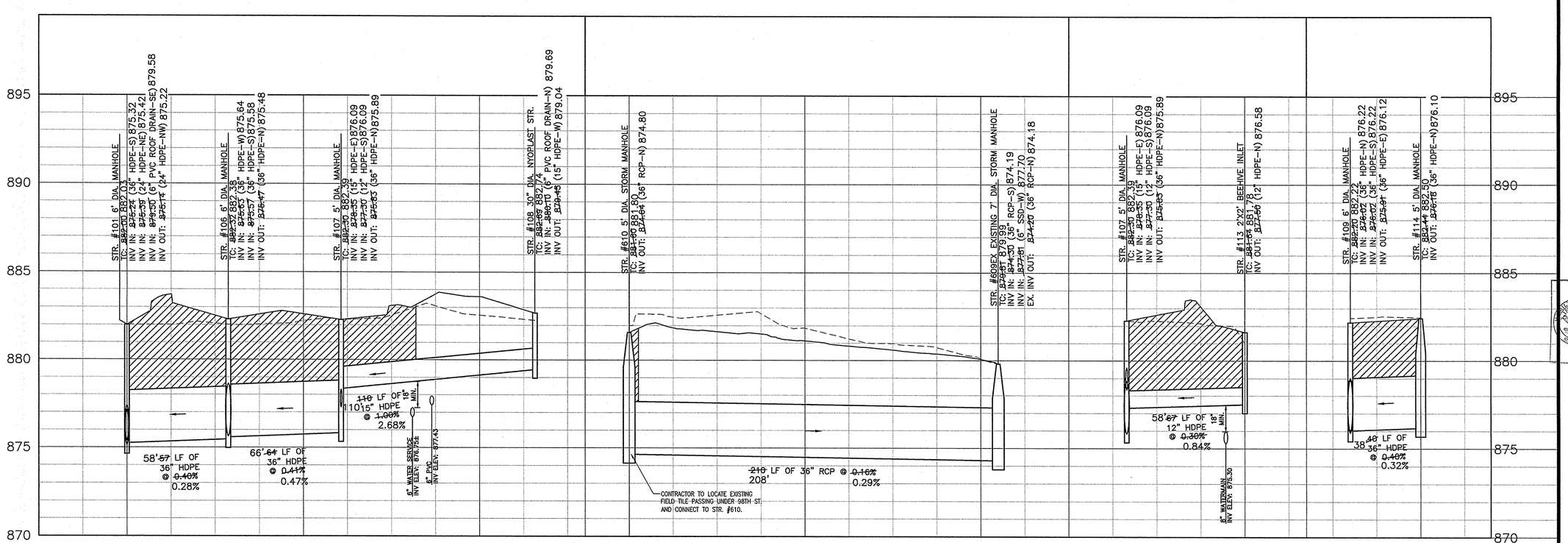
STORM PROFILE

VERTICAL SCALE: 1" = 3'
HORIZONTAL SCALE: 1" = 30'

GRANULAR BACKFILL
EXISTING GRADE
PROPOSED GRADE



REVISIONS		
DATE	DESCRIPTION	BY
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STORM SEWER PLAN & PROFILE

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LEGEND:

EXISTING		PROPOSED
	RIGHT-OF-WAY LINE	
	EASEMENT LINE	
	SETBACK LINE	
	CENTERLINE	
	SWALE / FLOWLINE	
	FENCE	
	TREE LINE	
	PROPOSED ASPHALT PAVEMENT	
	SANITARY MANHOLE	XXX
	STORM MANHOLE	XXX
	STORM INLET	XXX
	STORM END SECTION	XXX
	FIRE HYDRANT	

N/A	FLOW ARROW
N/A	FLOOD ROUTE
CL	- CENTERLINE
FL	- FLOW LINE
PC	- POINT OF CURVATURE
PT	- POINT OF TANGENCY
PVC	- POLYVINYL CHLORIDE PIPE
RCP	- REINFORCED CONCRETE PIPE
R/W	- RIGHT-OF-WAY
TB	- TOP OF BANK GRADE
TC	- TOP OF CASTING GRADE
SSE	- SANITARY SEWER EASEMENT
AE	- ACCESS EASEMENT
DE	- DRAINAGE EASEMENT

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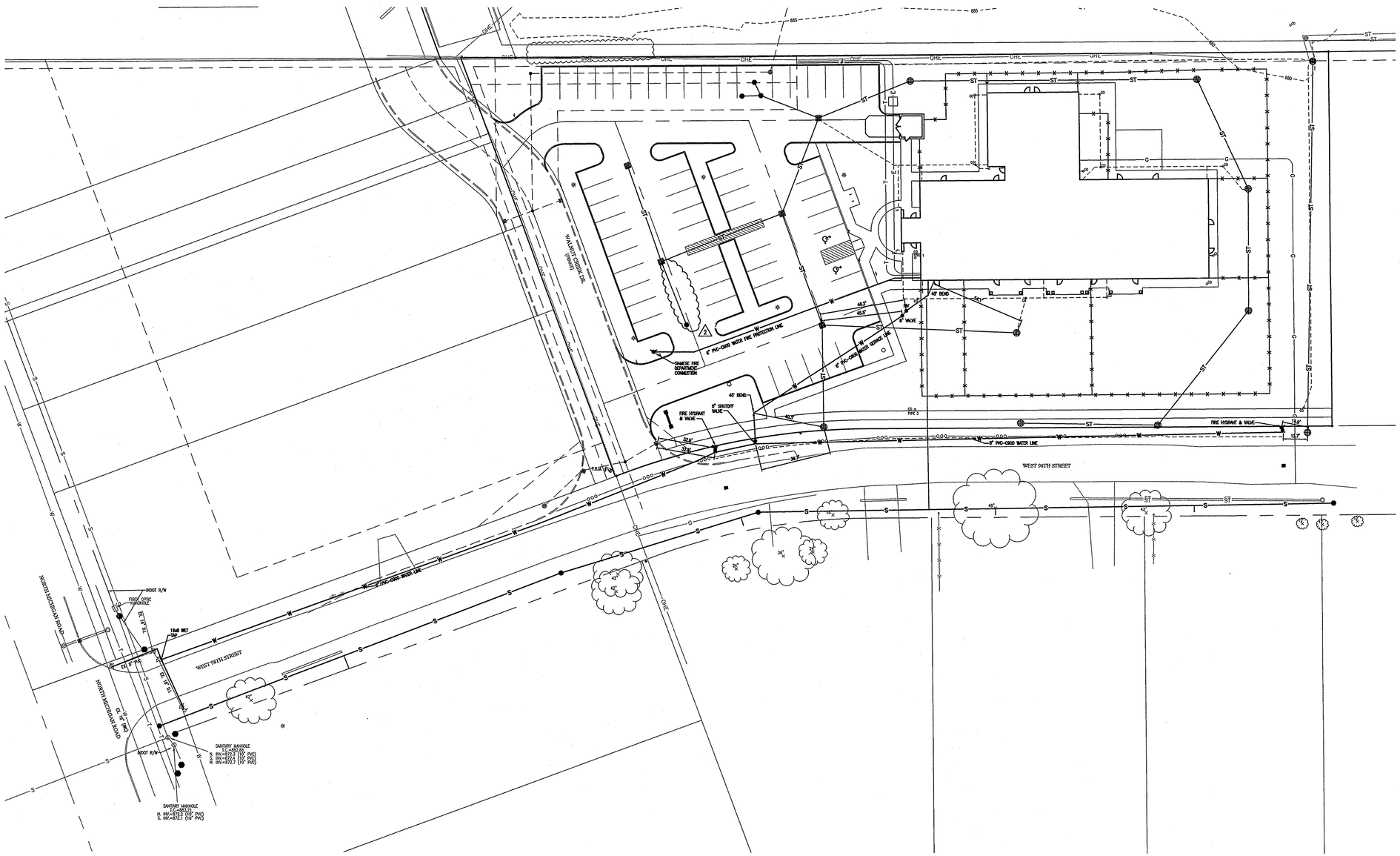
GRAPHIC SCALE
0' 30' 60' 90'
(IN FEET)

BENCHMARK INFORMATION:

ORIGINATING BENCHMARK: HAMILTON COUNTY GEODETIC CONTROL DISK (HCBR 281) BRASS DISK SET IN THE NORTHEAST WINGWALL OF CONSPAN THREE-SIDED ARCH BRIDGE STRUCTURE (STR. NO. 281) CARING 96TH STREET OVER CROOKED CREEK. ELEVATION=871.54

TBM #1: RAILROAD SPIKE SET IN UTILITY POLE LOCATED AT THE SOUTHWEST CORNER OF LOT 63 AS SHOWN HEREON. ELEVATION=883.60

TBM #2: TOP OF STORM MANHOLE LOCATED ±35' NORTH AND ±30' WEST OF THE NORTHWEST CORNER OF LOT 63 AS SHOWN HEREON. ELEVATION=883.84



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11/11/13	REVISED PER VARIOUS AGENCY COMMENTS 2	HWC
11/15/14	RECORD DRAWING	DC

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WATER DISTRIBUTION PLAN

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