

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

October 3, 2013

To: Hamilton County Drainage Board

Re: Cool Creek Drain, Weas Engineering Arm

Attached is a petition filed by HADAH II, LLC, along with a non-enforcement request, plans, calculations, and quantity summary for the Weas Engineering Arm, Cool Creek Drain to be located in Washington 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 in the petition. Upon doing so, I believe that the drain is practicable, will improve the public health, benefit a public 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:

18" RCP 401 ft.

The total length of the drain will be 401 feet.

The petitioner has submitted surety for the proposed drain at this time. The sureties which are in the form of a Performance Bond are as follows:

Agent: Liberty Mutual Insurance Company
Date: September 12, 2013
Number: 268004581
For: Storm Sewer from Str. 611 to 613
Amount: \$18,630.00

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 offsite easement across parcel 09-09-01-00-02-003.000, owned by Ego Enterprises, LLC, shall be the 30 foot Regulated Drain Easement (R.D.E.) as shown on the secondary plat for First Amendment to the Secondary Plat of Custom Commerce Park, as recorded in the office of the Hamilton County Recorder in Plat Cabinet 4, Slide 678. The easement across the Right of Way of the Monon Trail and parcel 09-09-01-00-01-006.000, owned by the City of Westfield, falls within the 75 foot statutory easement of the Anna Kendall Arm, per I.C. 36-9-27-33 and as shown on the secondary plat for First Amendment to the Secondary Plat of Custom Commerce Park, as recorded in the office of the Hamilton County Recorder in Plat Cabinet 4, Slide 678.

I recommend that upon approval of the above proposed drain that the Board also approve the attached non-enforcement request. The request will be for the reduction of the regulated drain easement to those easement widths as shown on the secondary plat for Replat of Lot 4 of the First Amendment of the Secondary Plat of Custom Commerce Park as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for November 25, 2013.



Kenton C. Ward, CFM
Hamilton County Surveyor

KCW/pll

To: Hamilton County Drainage Board

Date: 8/5/13

Re: Anna Kendall Drain

HADAH II, LLC (Here-in-after "Petitioner"),


hereby petitions the Hamilton County Drainage Board under IC 36-9-27-66 for an arm to be installed to the Anna Kendall Drain Drain in order to serve the property of the

petitioner. The petitioner, in support of said petition, advises the Board that:

1. The Anna Kendall Drain Drain is presently on a maintenance program and that land of the petitioner is assessed as benefited by the maintenance of the regulated drain
2. There is no known adequate open or tiled drain connecting the land of the petitioner with the regulated drain;
3. The waters from the petitioners land flow over or through land owned by others to reach the regulated drain;
4. The legal description of lands through which the new regulated drain will run along with the parcel numbers, name and address of each owner of that land is shown on Exhibit "A" which is attached;
5. The general route of the proposed new regulated drain and method of construction is shown on Exhibit "B" which is attached.
6. Petitioner agrees to pay all legal and construction costs involved with the construction of the proposed new regulated drain.

Signed

Printed



W. ANDREW WEAS, JR.

FILED

AUG 16 2013

OFFICE OF HAMILTON COUNTY SURVEYOR

Adobe PDF Ffillable Form



Pepper Construction Company
 Job #: 22274
 Rev #: 03 Dated: 08/01/2013
 Desc: GMP Contract Estimate

WEAS Engineering

WEAS Engineering BTS

August 15, 2013
 16:04

Data Includes:
 Phase(s): AAA

Scope Alternate Detail Report

S.A. #	Owners Ref #	Description	Status	Cost Event #
0		Breakout Costs - MH613 to MH611	Not Submitted	00058

Cost Code	Description	Qty	U/M	Total	Vendor Name	Cost Code Comments
Phase AAA General Construction						
0275	027500 Site Utilities	1.00	LS	15,525		
		Subtotal		15,525		
		Phase AAA Total		<u>\$15,525</u>		

C.E. Comments: This scope alternate represents the break-out (or standalone costs) related to the cost of installing structures and related piping from MH613 to MH611.

This cost has been prepared as required to issue a performance bond for tie-in work related to the Anna Kendall Drain - Custom Commerce Park - Weas Engineering Arm.

Kevin Stafford
 M: 317.557.8333

FILED

AUG 16 2013

OFFICE OF HAMILTON COUNTY SURVEYOR



HCDB-2013-00050

SUBDIVISION BOND

Bond No.: 268004581

Principal Amount: \$18,630.00

KNOW ALL MEN BY THESE PRESENTS, that we Pepper Construction Company of Indiana, LLC as Principal, and Liberty Mutual Insurance Company an MA Corporation, as Surety, are held and firmly bound onto Hamilton County Board of Commissioners, One Hamilton County Square, Noblesville, IN. 46060, as Obligees, in the penal sum of Eighteen Thousand Six Hundred Thirty and 00/100 (\$18,630.00) lawful money of the United States of America, for the payment of which will and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS, Pepper Construction Company of Indiana, LLC has agreed to construct in Custom Commerce Park, in Hamilton County, IN the following improvements:
Site Utilities - Weas Engineering
Anna Kendall Drain - Installing Structures and Related Piping from MH613 to MH611

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, that if the said Principal shall construct, or have constructed, the improvement herein described, and shall save the Obligees harmless from any loss, cost or damage by reason of its failure to complete said work, then this obligation shall be null and void, otherwise to remain in full force and effect until released by the Obligees, and the Surety, upon receipt of a resolution of the Obligees indicating that the improvements have not been installed or completed per the requirement of the Obligees, will complete the improvements or pay to the Obligees such amount up to the Principal amount of this bond which will allow the Obligees to complete the improvements.

Upon approval by the Obligees, this instrument may be proportionately reduced as the public improvements are completed, but only by doing a rider to this original bond.

Signed, sealed and dated, this 12th day of September 2013.

Pepper Construction Company of Indiana, LLC
1850 West 15th Street, Indianapolis, IN 46202
Principal

Liberty Mutual Insurance Company
175 Berkeley Street, Boston, MA 02116
Surety

By: Michael McCann

By: Susan Lupski

Name and Title: Michael McCann SRVP

Name and Title: Susan Lupski, Attorney-In-Fact

ACKNOWLEDGEMENT OF PRINCIPAL – IF A CORPORATION

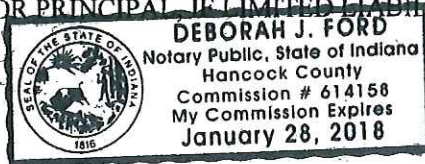


STATE OF} SS
COUNTY OF.....}

On this..... day of....., before me personally appeared to be known, who, being by me duly sworn, did depose and say; that he/she resides at, that he/she is the of the corporation described in and which executed the within insurance instrument; that he/she knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that is was so affixed by the Board of Directors of said corporation; and that he/she signed his/her name thereto by like order.

ACKNOWLEDGEMENT FOR PRINCIPAL IF LIMITED LIABILITY COMPANY

STATE OF} SS
COUNTY OF.....}



On this September 12, 2013 day of before me personally appeared Mike McCann to me known and known to me to be the Sr. VP of Pepper Construction Company, a Limited Liability Company, described in and who executed the foregoing insurance instrument and acknowledged to me that he/she executed the foregoing insurance instrument and acknowledged to me that he/she executed the same as and for the act and deed of said Limited Liability Company.

[Handwritten signature]
Deborah J. Ford

ACKNOWLEDGMENT OF SURETY COMPANY

STATE OF New York.....} SS
COUNTY OF Nassau.....}

On this September 12, 2013, before me personally came..... Susan Lupski to me known, who, being by me duly sworn, did depose and say; that he/she resides in Nassau County, State of New York..... at he/she is the Attorney-In-Fact of the Liberty Mutual Insurance Company..... the corporation described in which executed the above instrument; that he/she knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that is was so affixed by order of the Board of Directors of said corporation; and that he/she signed his/her name thereto by like order; and the affiant did further depose and say that the Superintendent of Insurance of the State of New York, has, pursuant to Section 1111 of the Insurance Law of the State of New York, issued to Liberty Mutual Insurance Company..... (Surety) his/her certificate of qualification evidencing the qualification of said Company and its sufficiency under any law of the State of New York as surety and guarantor, and the propriety of accepting and approving it as such; and that such certificate has not been revoked.

[Handwritten signature]
Notary Public

NY acknowledgment

JACQUELINE McNEIL
Notary Public, State of New York
No. 01MC6156390
Qualified in Nassau County
Term Expires November 27, 2014

THIS POWER OF ATTORNEY IS NOT VALID UNLESS IT IS PRINTED ON RED BACKGROUND.

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Certificate No. 6132076

American Fire and Casualty Company
The Ohio Casualty Insurance Company

Liberty Mutual Insurance Company
West American Insurance Company



POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That American Fire & Casualty Company and The Ohio Casualty Insurance Company are corporations duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts; and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Camille Maitland; Colette R. Chisholm; George O. Brewster; Gerard S. Macholz; Lee Ferrucci; Peter F. Jones; Rita Sagistano; Robert T. Pearson; Susan Lupski; Thomas Bean; Vincent A. Walsh; Virginia M. Lovett

all of the city of Uniondale, state of NY each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 20th day of May, 2013.



American Fire and Casualty Company
The Ohio Casualty Insurance Company
Liberty Mutual Insurance Company
West American Insurance Company

By: Gregory W. Davenport
Gregory W. Davenport, Assistant Secretary

STATE OF WASHINGTON ss
COUNTY OF KING

On this 20th day of May, 2013, before me personally appeared Gregory W. Davenport, who acknowledged himself to be the Assistant Secretary of American Fire and Casualty Company, Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at Seattle, Washington, on the day and year first above written.



By: KD Riley
KD Riley, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of American Fire and Casualty Company, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV – OFFICERS – Section 12. Power of Attorney. Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

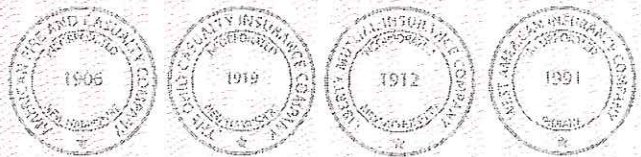
ARTICLE XIII – Execution of Contracts – SECTION 5. Surety Bonds and Undertakings. Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation – The President of the Company, acting pursuant to the Bylaws of the Company, authorizes Gregory W. Davenport, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization – By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, David M. Carey, the undersigned, Assistant Secretary, of American Fire and Casualty Company, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this _____ day of _____, 20_____.



By: David M. Carey
David M. Carey, Assistant Secretary

SEP 12 2013

To confirm the validity of this Power of Attorney call 1-610-832-8240 between 9:00 am and 4:30 pm EST on any business day.

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.



LIBERTY MUTUAL INSURANCE COMPANY
 FINANCIAL STATEMENT — DECEMBER 31, 2012

Assets		Liabilities	
Cash and Bank Deposits.....	\$ 903,711,694	Unearned Premiums.....	\$4,205,141,671
*Bonds — U.S Government.....	1,166,929,471	Reserve for Claims and Claims Expense.....	17,056,420,207
*Other Bonds.....	11,415,194,219	Funds Held Under Reinsurance Treaties.....	1,315,062,091
*Stocks.....	8,104,853,899	Reserve for Dividends to Policyholders.....	2,455,411
Real Estate.....	255,967,320	Additional Statutory Reserve.....	49,768,998
Agents' Balances or Uncollected Premiums.....	3,482,069,753	Reserve for Commissions, Taxes and	
Accrued Interest and Rents.....	144,016,763	Other Liabilities.....	<u>3,066,051,537</u>
Other Admitted Assets.....	<u>14,732,623,458</u>	Total	<u>\$25,694,899,915</u>
Total Admitted Assets.....	<u>\$40,205,366,577</u>	Special Surplus Funds.....	\$604,621,497
		Capital Stock.....	10,000,000
		Paid in Surplus.....	7,899,471,886
		Unassigned Surplus.....	5,996,373,279
		Surplus to Policyholders	<u>14,510,466,662</u>
		Total Liabilities and Surplus	<u>\$40,205,366,577</u>



* Bonds are stated at amortized or investment value; Stocks at Association Market Values.
 The foregoing financial information is taken from Liberty Mutual Insurance Company's financial statement filed with the state of Massachusetts Department of Insurance.

I, TIM MIKOLAJEWSKI, Assistant Secretary of Liberty Mutual Insurance Company, do hereby certify that the foregoing is a true, and correct statement of the Assets and Liabilities of said Corporation, as of December 31, 2012, to the best of my knowledge and belief.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said Corporation at Seattle, Washington, this 25th day of March, 2013.

T. Mikolajewski

Assistant Secretary

STATE OF INDIANA)
) ss:
COUNTY OF HAMILTON)

BEFORE THE HAMILTON COUNTY
DRAINAGE BOARD
NOBLESVILLE, INDIANA

IN THE MATTER OF THE
RECONSTRUCTION OF THE
Cool Creek Drain, Weas Engineering Arm

FINDINGS AND ORDER FOR RECONSTRUCTION

The matter of the proposed Reconstruction of the **Cool Creek Drain, Weas Engineering Arm** came before the Hamilton County Drainage Board for hearing **on November 25, 2013**, 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 **Cool Creek Drain, Weas Engineering Arm** 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

ATTEST: 
Executive Secretary

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF

Cool Creek Drain, Weas Engineering Arm

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 **Cool Creek Drain, Weas Engineering Arm** on **November 25, 2013** 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

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

IN THE MATTER OF **Cool Creek Drain, Weas Engineering Arm**

NOTICE

Notice is hereby given that the Hamilton County Drainage Board at its regular meeting **November 25, 2013** 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.

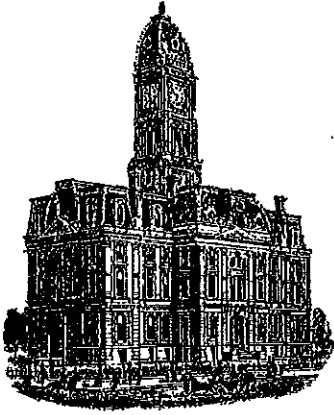
The Board issued an order declaring the proposed improvement established. Such findings and order were marked filed and are available for inspection in the Office of the Hamilton County Surveyor.

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: Christine Altman
PRESIDENT

ATTEST: Lynette Mosbaugh
SECRETARY



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

June 28, 2016

Re: Cool Creek Drain: Weas Engineering Arm

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

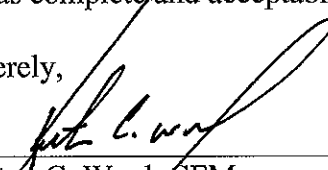
During construction, changes were made to the drain, which will alter the plans submitted with my report for this drain-dated October 3, 2013. The report was approved by the Board at the hearing held November 25, 2013. (See Drainage Board Minutes Book 15, Pages 257-259) The changes are as follows: the 18" RCP was lengthened from 401 feet to 406 feet. The length of the drain due to the changes described above is now **406 feet**.

The non-enforcement was approved by the Board at its meeting on November 25, 2013 and recorded under instrument #2013070708. The following sureties were guaranteed by Liberty Mutual Insurance Company and released by the Board on its June 27, 2016 meeting.

Bond-LC No: 268004581
Amount: \$18,630.00
For: Storm Sewers
Issue Date: September 12, 2013

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

Sincerely,


Kenton C. Ward, CFM
Hamilton County Surveyor

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Weas Engineering
Re: 17297 Oak Ridge Road, Westfield IN 46074
Regulated Drain Construction
Detention Pond Outlet to Anna-Kendal Drain

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: Ashton L. Fritz Date: May 29, 2014

Type or Print Name: Ashton L. Fritz

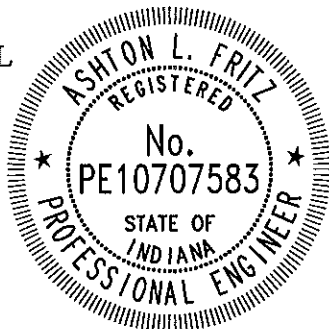
Beam, Longest & Neff, LLC

Business Address: 8126 Castleton Road

Indianapolis, IN 46250

Telephone Number: 317-849-5832

SEAL



INDIANA REGISTRATION NUMBER

PE10707583

SANITARY SEWER AS-BUILT STATEMENT

As-Built information for sanitary sewer rims are based upon above ground evidence of the existing sanitary sewer system. The strike through data shown on the Sanitary Sewers are the proposed elevations for all the structures to be placed. Said information has been replaced by the as-built information per elevations collected in the field on March 13, 2014.

Bryant

Bryan J. Moll
Registered Land Surveyor No. 20500012



CONSTRUCTION PLANS FOR: WEAS ENGINEERING

CUSTOM COMMERCE PARK, 17297 OAK RIDGE ROAD
CITY OF WESTFIELD, HAMILTON COUNTY, INDIANA
SEC. 1, TWP. 18N, RANGE 3E

PLANS PREPARED FOR:

Client Name: Hadah II, LLC
Address: 4848 Deer Ridge Drive North
Carmel, IN 46033
Telephone: (317) 867-4477
Contact Person: Andy Weas
Email: Andy.Weas@weasengineering.com

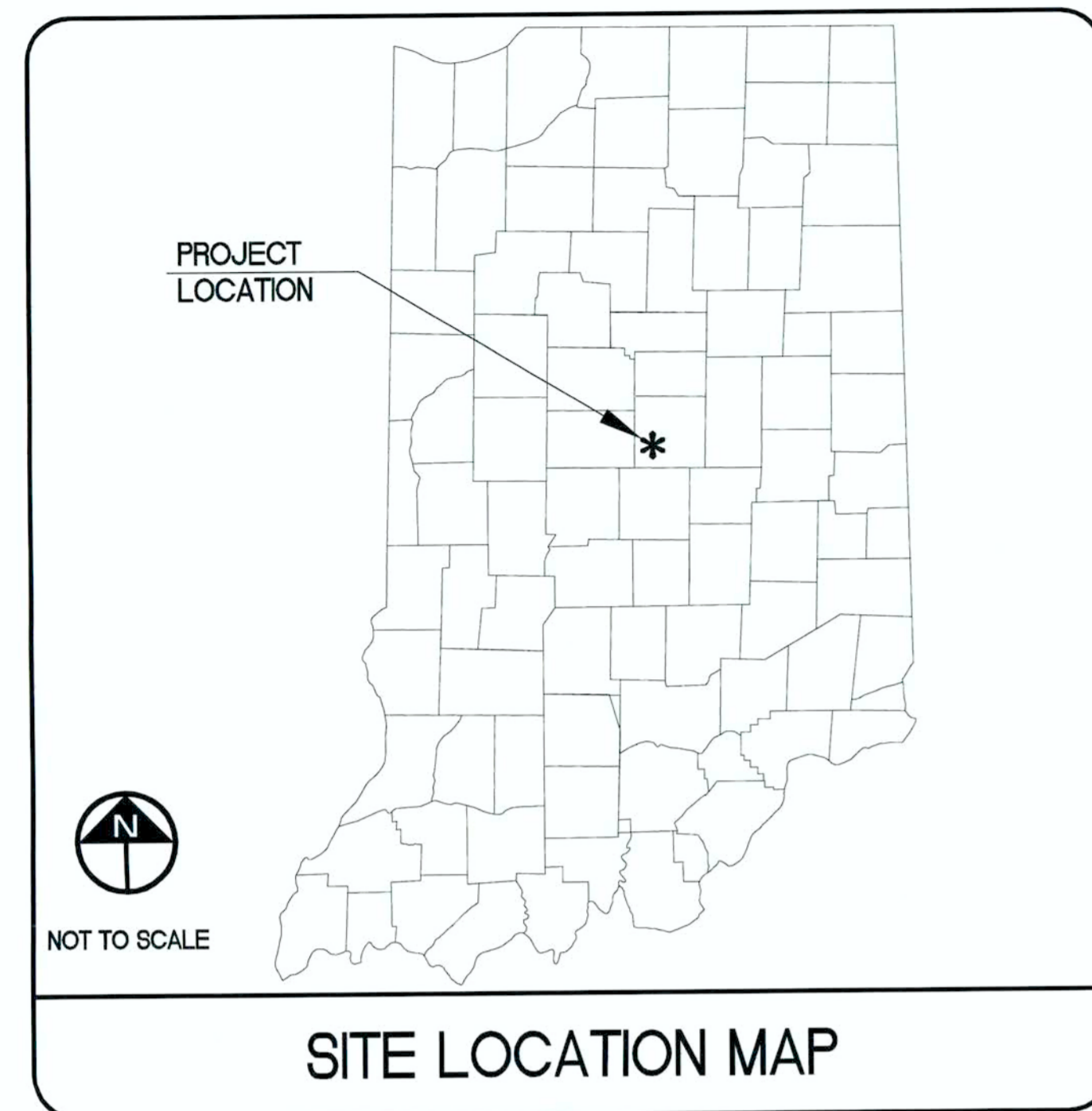
OPERATING AUTHORITIES

Westfield Economic Community Development 2728 East 171st St. Westfield, IN 46074 (317) 804-3170	Westfield Public Works Dept. 2706 East 171st St. Westfield, IN 46074 (317) 804-3100	Westfield Fire Dept. 17535 Dartown Road Westfield, IN 46074 (317) 804-3307	Westfield Engineering 2706 East 171st St. Westfield, IN 46074 (317) 804-3136
Hamilton County Surveyor One Hamilton County Square Suite #188 Noblesville, IN 46060 (317) 776-8495	FirstMile Technologies 750 Liberty Drive Westfield, IN 46074 (317) 569-2800	Frontier Communication 20905 Hague Road Noblesville, IN 46060 (317) 984-9010	Duke Energy 100 South Mill Creek Rd. Noblesville, IN 46060 (317) 776-5335
TW Telecom 4625 West 86th St. Suite 500 Indianapolis, IN 46268 (317) 713-8947	Citizens Gas of Westfield 2150 Dr. Martin Luther King Dr. Indianapolis, IN 46202 (317) 927-4684	Marathon Pipeline LLC 5000 West 86th St. Indianapolis, IN 46268 (317) 872-2300 x2008	

AS-BUILT

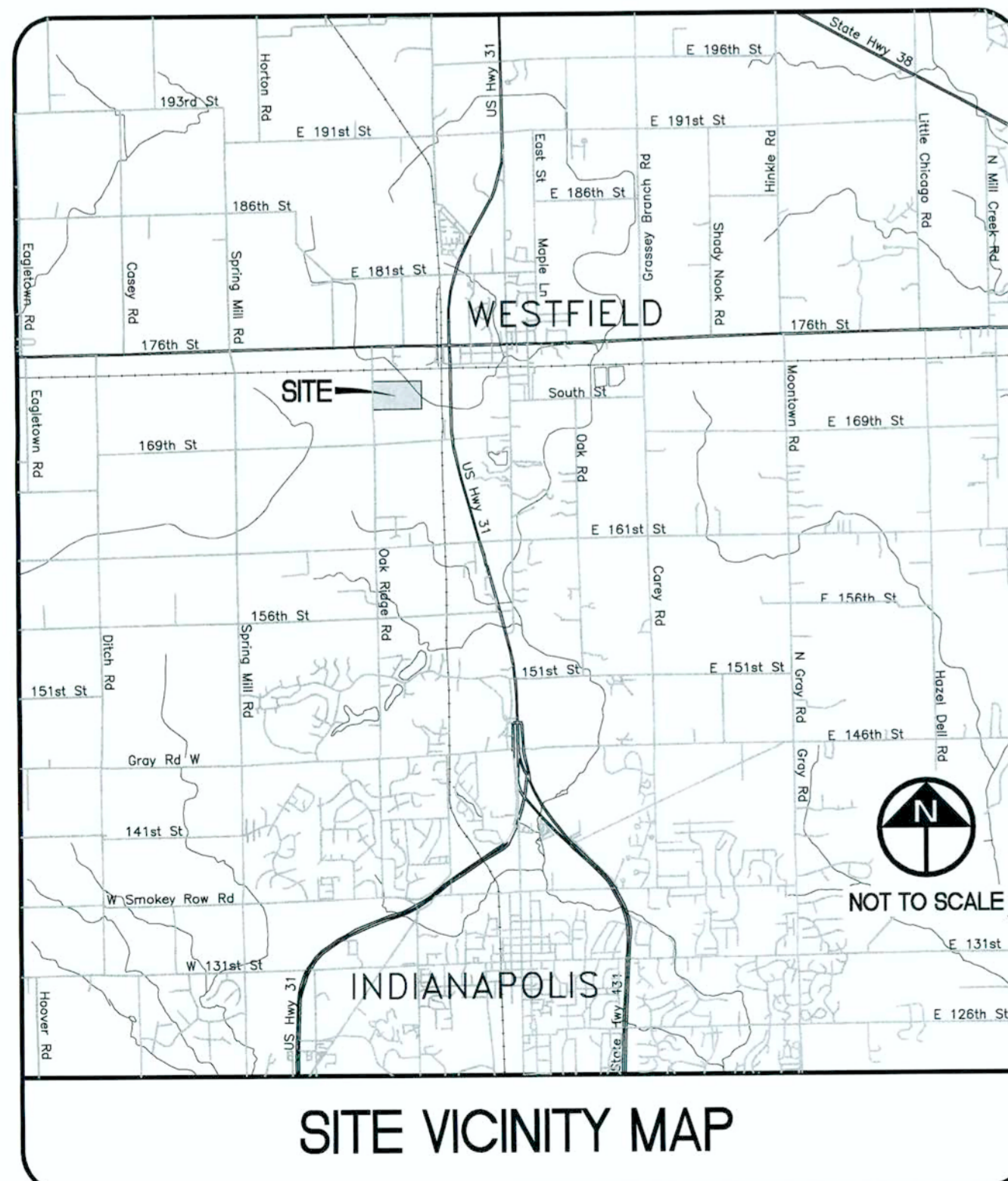
GENERAL NOTES:

- THE CONSTRUCTION PLANS SHALL GOVERN OVER ANY OTHER FORM OF MEDIA, WHICH INCLUDES DIGITAL FILES OF THIS PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING OR VERIFYING THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY, STATE & FEDERAL AGENCIES PRIOR TO STARTING CONSTRUCTION.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES IN THE VICINITY OF THE CONSTRUCTION AREA PRIOR TO STARTING CONSTRUCTION. ONCE ALL UTILITIES HAVE BEEN LOCATED, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN IN SERVICE ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION UNLESS OTHERWISE INDICATED IN THE CONSTRUCTION DRAWINGS.
- IT SHALL BE THE RESPONSIBILITY OF EACH SUBCONTRACTOR TO VERIFY ALL EXISTING UTILITIES AND CONDITIONS PERTAINING TO THE PHASE OF WORK. IT SHALL ALSO BE THE SUBCONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNERS OF THE VARIOUS UTILITIES FOR PROPER STAKE LOCATION OF EACH UTILITY BEFORE WORK IS STARTED. THE SUBCONTRACTOR SHALL NOTIFY IN WRITING THE OWNER AND THE ENGINEER OF ANY CHANGES, OMISSIONS, OR ERRORS FOUND ON THESE PLANS OR IN THE FIELD BEFORE WORK IS STARTED OR RESUMED.
- BEFORE WORKING WITH OR AROUND EXISTING UTILITIES, THE APPLICABLE UTILITY COMPANY SHALL BE CONTACTED BY THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY AND COORDINATE CONSTRUCTION WITH ALL RESPECTIVE UTILITIES.
- MAINTENANCE OF TRAFFIC NEEDED FOR THIS PROJECT SHALL BE INSTALLED AND MAINTAINED PER INDOT SPECIFICATIONS AND THE INDIANA MUTCD MANUAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS AND SHALL VERIFY ALL DIMENSIONS ON THE SITE PRIOR TO START OF CONSTRUCTION. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- ALL QUANTITIES GIVEN ON THESE CONSTRUCTION PLANS OR IN THE SCOPE OF WORK SECTION ARE ESTIMATES AND SHALL BE CONFIRMED BY THE BIDDING CONTRACTORS.
- IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER AND CONTRACTOR TO MAINTAIN QUALITY CONTROL THROUGHOUT THIS PROJECT.
- ALL GRADES AT BOUNDARY SHALL MEET EXISTING GRADES.
- NO WORK SHALL BE PERFORMED OFFSITE UNLESS NOTED OTHERWISE.
- ALL CONSTRUCTION ACTIVITY ON THIS SITE IS TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE O.S.H.A. STANDARDS FOR WORKER SAFETY.
- CONTRACTOR SHALL MINIMIZE DAMAGE TO ANY EXISTING TREES.
- NO CONSTRUCTION WORK SHALL BE PERFORMED WITHIN THE WATER TRIBUTARIES UNLESS NOTED OTHERWISE.
- BEARINGS, DIMENSIONS, AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY. SEE RECORD SURVEYS AND PLATS FOR EXACT INFORMATION.



NOT TO SCALE

SITE LOCATION MAP



NOT TO SCALE

SITE VICINITY MAP

STORM SEWER AS-BUILT STATEMENT

As-Built information for storm sewer rims are based upon above ground evidence of the existing storm sewer system. The strike through data shown on the Storm Sewers are the proposed elevations for all the structures to be placed. Said information has been replaced by the as-built information per elevations collected in the field on March 13, 2014.

Bryant

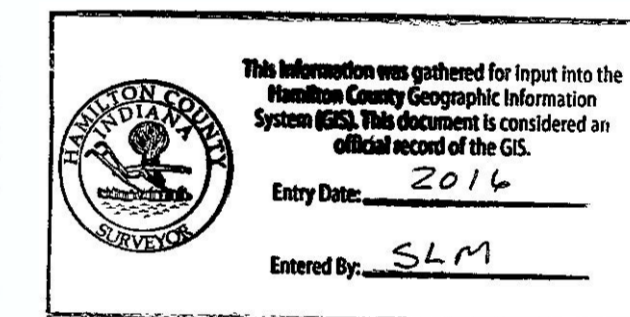
Bryan J. Moll
Registered Land Surveyor No. 20500012



SHEET INDEX	
SHEET NO.	SHEET NAME
C100	TITLE SHEET
1	ASCM/ALTA SURVEY
C101	INFORMATION PLAN
C201	SITE PLAN
C301	GRADING PLAN
C401 - C402	UTILITY PLAN
C601 - C603	STORM PLAN AND PROFILE
C701 - C702	EROSION CONTROL PLAN
C703 - C704	EROSION CONTROL DETAILS
C705	EROSION CONTROL SPECIFICATIONS
C801 - C809	DETAILS
C810	SPECIFICATIONS
L101	LANDSCAPE PLAN

SPECIFICATIONS:

- INDIANA STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, LATEST EDITION, TO BE USED AS SUPPLEMENTAL INFORMATION.
- ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CITY OF WESTFIELD'S DESIGN & CONSTRUCTION STANDARDS AND SPECIFICATIONS UNLESS SPECIFICALLY NOTED OTHERWISE. IN THE EVENT THESE PLANS ARE IN CONFLICT WITH SAID STANDARDS, THE MORE STRINGENT REQUIREMENTS SHALL BE USED.
- SUPPLEMENTAL CONSTRUCTION STANDARDS: HAMILTON COUNTY



FLOOD ZONE:

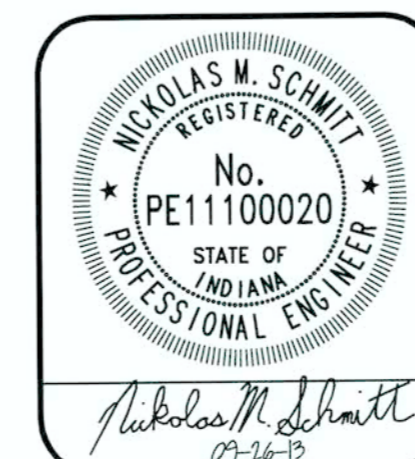
THIS PROJECT SITE IS LOCATED WITHIN FLOOD ZONE DESIGNATION 'X' (AREAS OUTSIDE OF 500 YR FLOOD PLAIN), AS SHOWN ON FIRM MAP #18057C0120F, DATED FEBRUARY 19, 2003.

ZONING:

- SUBJECT SITE IS ZONED PUD.
- ADJACENT ZONING:
NORTH - PUD
SOUTH - PUD
WEST - OAK RIDGE ROAD, SF-3, (RESIDENTIAL)
EAST - PUD

REVISIONS

SHEETS	REVISION DESCRIPTION	DATE
ALL	REVISED PER TAC COMMENTS DATED 5/09/13	5/20/13
C301	GRADING PLAN REVISED	5/28/13
C802	TRAIL DETAIL REPLACED WITH CORRECT DETAIL AS OBTAINED FROM WESTFIELD PLANNING DEPT.	5/28/13
C201 AND C801	DUMPSTER PAD/ENCLOSURE NOTES AND DETAIL. REMOVED FROM PLAN SET	5/30/13
C301, C401, C601-603	REVISED PER WESTFIELD'S DFW COMMENTS DATED 5/28/13	6/03/13
C100, C402, C603, C809	HAMILTON COUNTY DETAILS AND CONSTRUCTION STANDARDS NOTES ADDED TO PLAN SET	6/03/13
C401, C402	8 INCH WATER MAIN REPLACED WITH A 12 INCH WATER MAIN PER WESTFIELD DFW	6/13/13
C806	DETAIL S-13 REPLACED PER WESTFIELD DFW	6/13/13
ALL	FINAL PLANS	8/15/13
C201, C301, C401, C801	REVISED PER CONTRACTOR AND OWNERS COMMENTS	9/26/13



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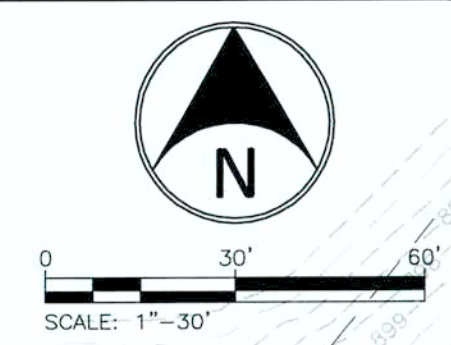
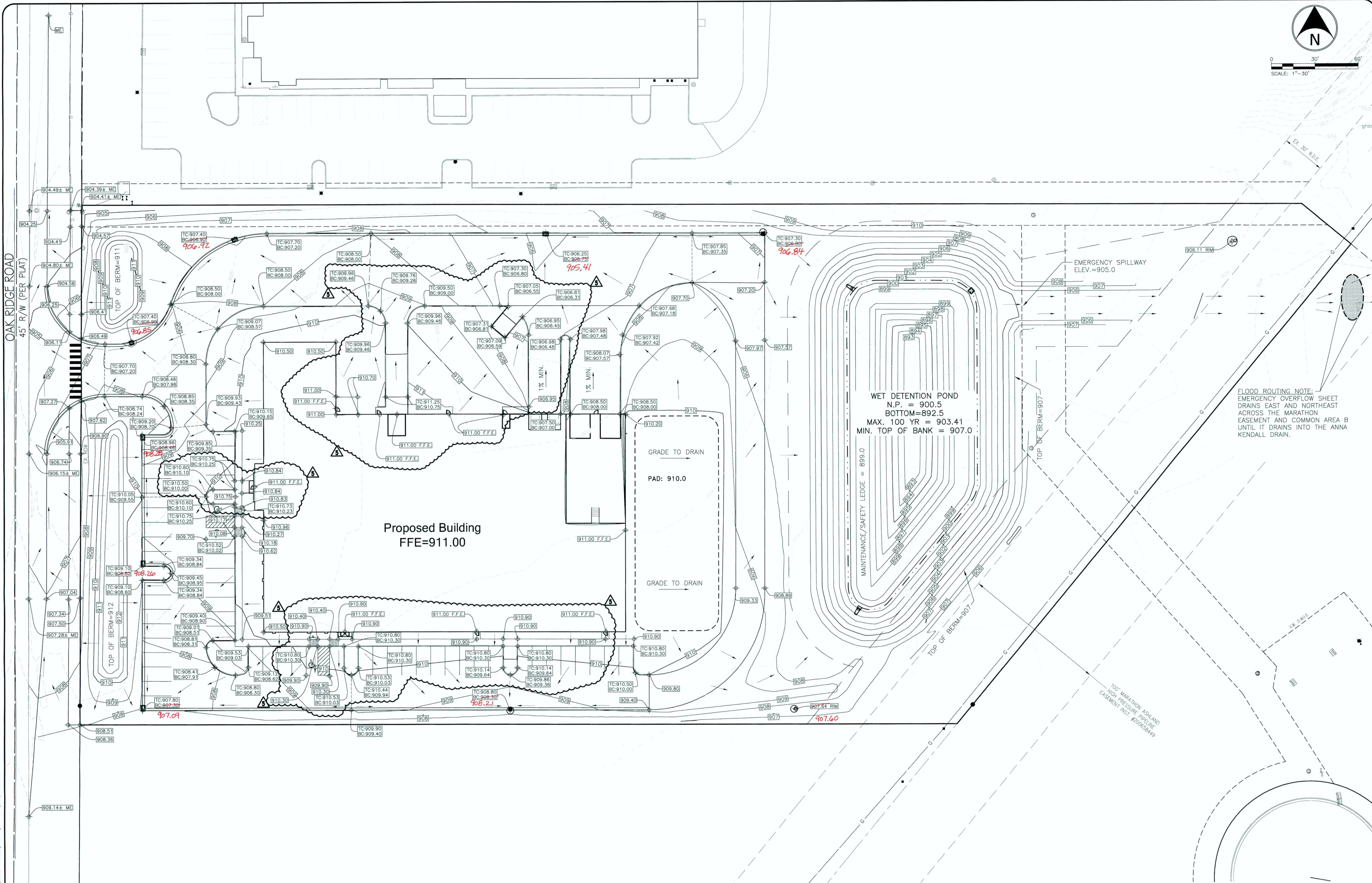
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Consulting Engineers, Land Surveyors,
& Landscape Architects

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Phone: 317.849.5832

www.B-L-N.com
Fax: 317.841.4281

PLAN DATE:	5/02/2013
PROJECT NO.:	130020
SHEET NO.:	C100



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 & Landscape Architects

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REVISIONS AND ISSUES	DATE	BY
REVISED PER IAC COMMENTS DATED 5/09/13	5/20/13	NMS
REVISED PER WESTFIELD DPW COMMENTS DATED 5/28/13	6/25/13	NMS
FINAL PLANS	8/15/13	NMS
5. REVISED PER CONTRACTOR AND OWNERS COMMENTS	9/26/13	NMS

NICHOLAS W. SCHMITT
 Registered Professional Engineer
 No. PE11100020
 STATE OF INDIANA
 PROFESSIONAL ENGINEER

Nicholas W. Schmitt
 09/16/2013

CONSTRUCTION PLANS FOR:
WEAS ENGINEERING
 CUSTOM COMMERCE PARK, 17297 OAK RIDGE ROAD, WESTFIELD, IN 46074 SEC. 1, TWP. 18N, RANGE 3E
 HADAH II, LLC
 4848 DEER RIDGE DR. NORTH, CARMEL, IN 46077

GRADING PLAN

PLAN DATE:	5/02/2013
DESIGN:	MO
CHECK:	NMS
DRAWING:	MAW
PROJECT NO.:	130020
SHEET NO.:	C301

STORM SEWER AS-BUILT STATEMENT

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Bryan J. Moll
 Bryan J. Moll
 Registered Land Surveyor No. 20500012



AS-BUILT

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: 2014
 Entered By: SLM

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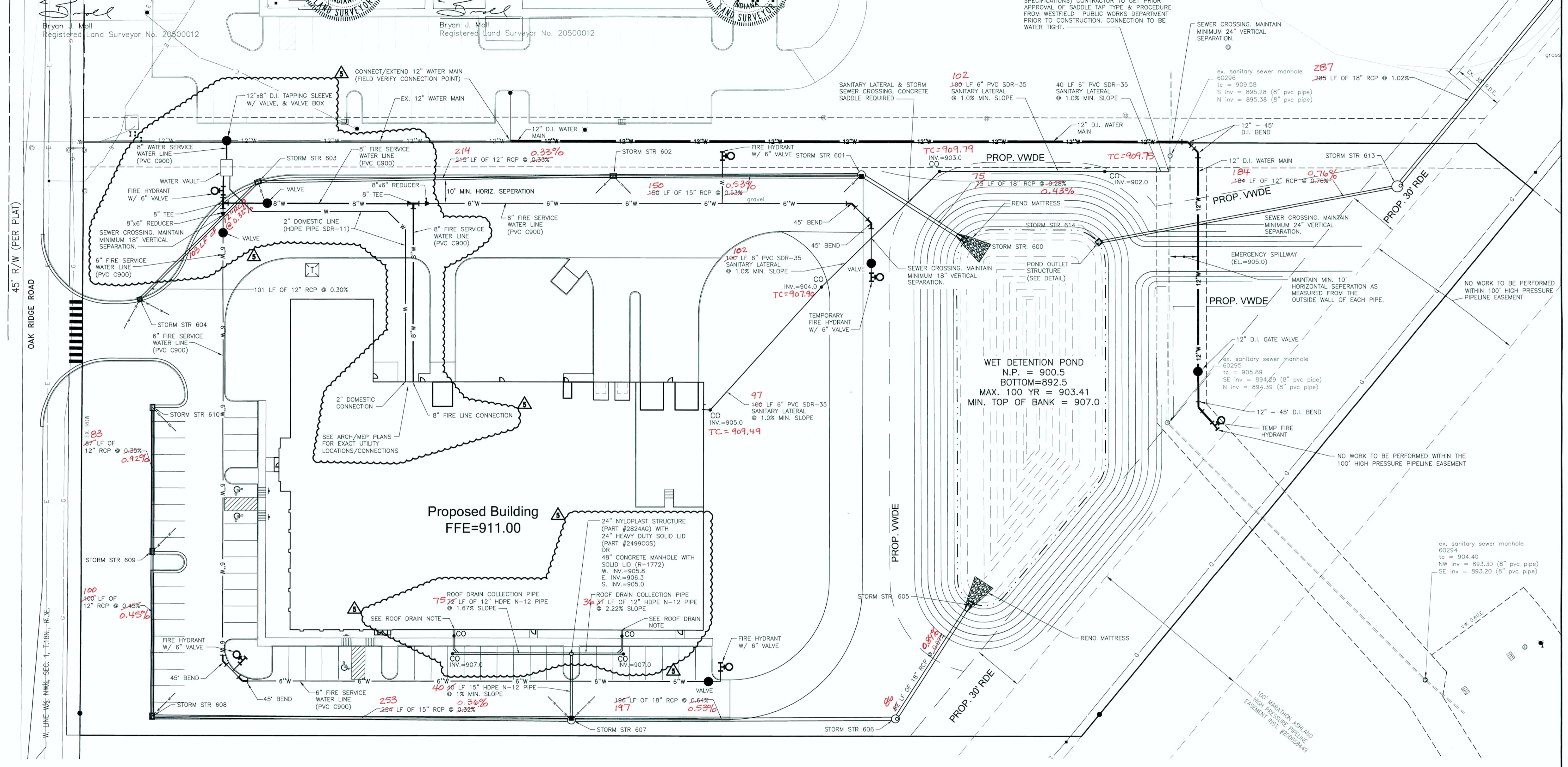
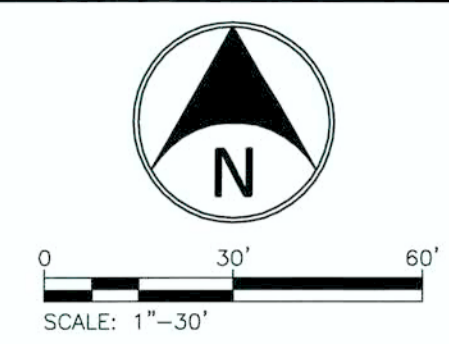
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SANITARY SEWER AS-BUILT STATEMENT

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STORM SEWER AS-BUILT STATEMENT

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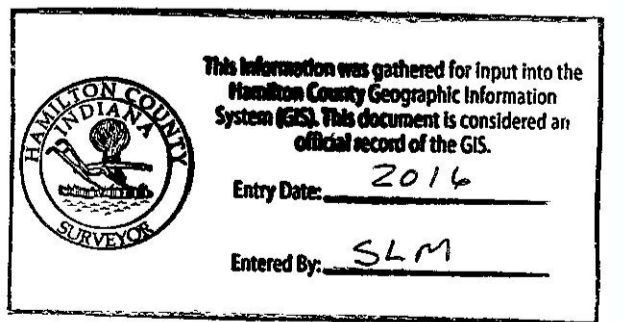
UTILITY NOTES:

- COORDINATE WITH ARCHITECT/MEP AND CORRESPONDING UTILITY COMPANIES FOR EXACT SIZE, TYPE, AND LOCATION FOR THE ELECTRIC, TELEPHONE, FIBER OPTIC, AND WATER LINE SERVICES. UTILITY SERVICE PROVIDERS MAY REQUIRE INSTALLATION OF ON-SITE CONDUITS. CONTRACTOR SHALL COORDINATE REQUIREMENTS FOR CONDUITS INCLUDING NUMBER, LOCATION, PULL STRING, ETC. WITH RESPECTIVE UTILITY PROVIDERS PRIOR TO BIDDING.
- LOCATION OF THE UTILITY SERVICE CONNECTIONS INTO THE BUILDING ARE APPROXIMATE. SEE ARCHITECTURAL/MEP PLANS FOR EXACT LOCATIONS.
- WATER SERVICE INSTALLATION SHALL CONFORM TO THE MATERIAL AND INSTALLATION STANDARDS OF THE CITY OF WESTFIELD. CONTRACTOR SHALL COORDINATE EXACT REQUIREMENTS FOR ALL WATER INSTALLATION PRIOR TO BIDDING.
- THE UNDERDRAINS DEPICTED ON THESE PLANS FOR THE STORM STRUCTURES ARE 20 LINER FEET OF 6" PERFORATED HDPE PIPE. UNDERDRAIN INVERTS SHALL BE SET A MINIMUM OF 6 INCHES ABOVE THE OUTLET PIPE UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL COORDINATE FINAL LOCATION OF TRANSFORMER AND PRIMARY SERVICE TO TRANSFORMER W/ UTILITY AT TIME OF SERVICE REQUEST. CONTRACTOR SHALL PROVIDE TRANSFORMER PAD AS REQUIRED BY UTILITY.
- NO WORK SHALL BE PERFORMED WITHIN THE 100' MARATHON HIGH PRESSURE PIPELINE EASEMENT.

- FULL DEPTH GRANULAR BACKFILL REQUIRED FOR WATER & SANITARY UNDER AND WITHIN 5' OF PAVEMENT.
- TEMPORARY FIRE HYDRANT TO BE PAINTED W/ 2 COATS OF FIRE PROTECTION RED (F63RL15) FOR MUELLER & (M4154) FOR WATEROUS.
- PRIVATE FIRE HYDRANTS TO BE PAINTED W/ 2 COATS OF SAFETY YELLOW (F63RXY9659) FOR MUELLER & (M4154) FOR WATEROUS.
- POSI CAPS SHALL BE INSTALLED ON ALL VALVES.
- WATER MAIN SHALL BE SADDLE TAPPED AND BEDDED WITH 6" OF SAND UNDER AND 12" OVER THE PIPE W/ MARKING TAPE INSTALLED 2' ABOVE MAIN.
- NUMBER TWELVE (12) GAUGE LOCATING WIRE SHALL BE TAPPED TO THE TOP OF THE MAIN.
- IF DUCTILE IRON PIPE IS USED, THE MAIN MUST BE POLY WRAPPED AND MARKING TAPE INSTALLED 2' ABOVE THE MAIN.
- ALL SANITARY SEWER LATERALS SHALL HAVE LOCATE WIRE RUN WHEN INSTALLING.
- MINIMUM SLOPES PER TEN STATE STANDARDS SHALL PREVAIL IN ALL CASES.

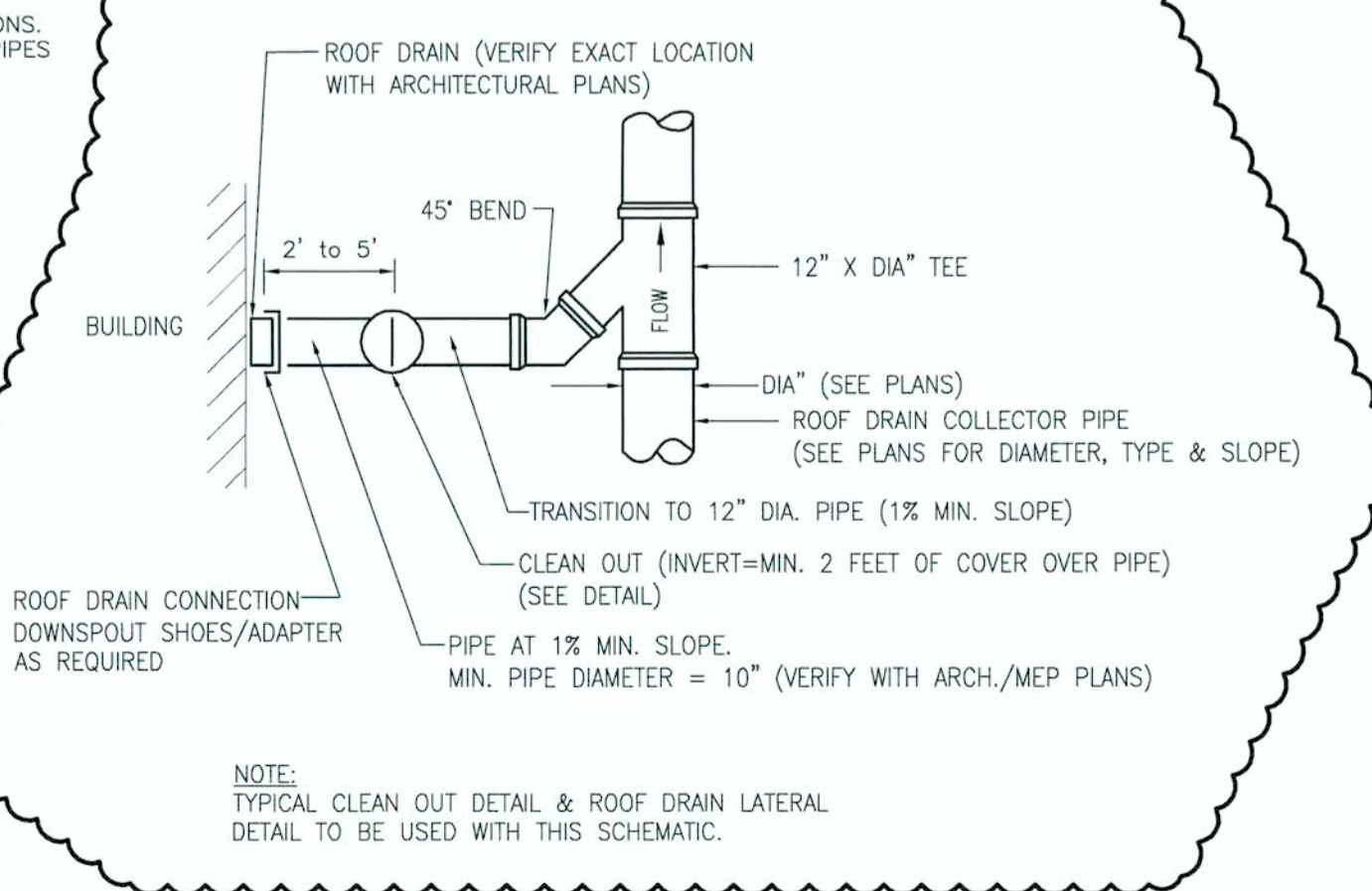
ROOF DRAIN NOTES:

COORDINATE WITH ARCHITECT ON EXACT ROOF DRAIN LOCATIONS. CONNECT ROOF DRAINS INTO THE ROOF DRAIN COLLECTOR PIPES PER THE DETAIL LOCATED WITHIN THE PLAN SET.



AS-BUILT

ROOF DRAIN CONNECTION DETAIL



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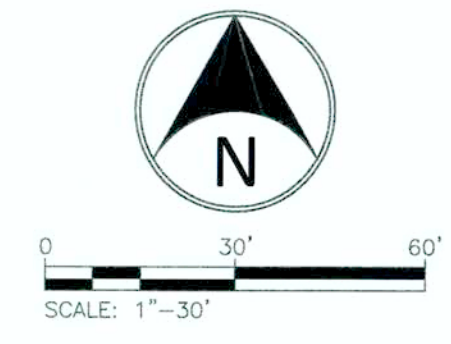
DATE	BY	REVISION
5/29/13	BLN	ISSUED FOR PERMITS
6/27/13	BLN	REVISED PER WESTFIELD DWP COMMENTS DATED 5/28/13
6/27/13	BLN	8" INCH WATER MAIN CHANGED TO A 12" INCH MAIN PER DWP
9/26/13	BLN	5" REVISED PER CONTRACTOR AND OWNERS COMMENTS

NIKOLAS M. SCHWITZ
REGISTERED
No. PE11100020
STATE OF INDIANA
PROFESSIONAL ENGINEER
Nikolas M. Schwitz
03/16/2013

CONSTRUCTION PLANS FOR:
WEAS ENGINEERING
CUSTOM COMMERCIAL PARK, 17297 OAK RIDGE ROAD, WESTFIELD, IN 46074 SEC. 1, TRP. 18N, RANGE 3E
HADAH II, LLC
4848 DEER RIDGE DR. NORTH, CARMEL, IN 46077
UTILITY PLAN

PLAN DATE: 5/02/2013
DESIGN: MNS CHECK: AF DRAWN: MNS
PROJECT NO. 130020
SHEET NO. **C401**

AS-BUILT



STRUCTURE DATA TABLE					
AS-BUILT RIM	STRUCTURE NO.	RIM	NEENAH CASTING DESIGNATION	STRUCTURE TYPE	NOTES
	600	-	N/A	Precast End Section	
906.84	601	906.80	R-3275	48" Storm MH (Type "C" MH)	
905.41	602	905.30	R-3287-SB10	24" x 36" Box Structure (Type "M" Inlet)	
906.92	603	906.90	R-3287-SB10	24" x 36" Box Structure (Type "M" Inlet)	
906.85	604	906.90	R-3286-8V	24" x 24" Box Structure (Type "A" Inlet)	
	605	-	N/A	Precast End Section	
907.60	606	907.54	R-1642	48" Storm MH (Type "C" MH)	
908.21	607	908.30	R-3275	48" Storm MH (Type "C" MH)	Roof Drain Connection Inv. = 904.6
907.09	608	907.30	R-3287-SB10	24" x 36" Box Structure (Type "M" Inlet)	
908.26	609	908.00	R-3287-SB10	24" x 36" Box Structure (Type "M" Inlet)	Roof Drain Connection Inv. = 905.0
908.28	610	908.45	R-3287-SB10	24" x 36" Box Structure (Type "M" Inlet)	Roof Drain Connection Inv. = 905.0
	611	-	N/A	Precast End Section	
897.10	612	897.00	R-1642	48" Storm MH (Type "C" MH)	
906.05	613	906.11	R-1642	72" Storm MH (Type "K" MH)	
904.82	614	905.00	R-3433	24"x24" Box Structure	Pond Outlet Structure

- NOTES:
- "R-#" SIGNIFIES NEENAH CASTING NUMBERS
 - RIM ELEVATIONS ARE ACTUAL GUTTER ELEVATIONS FOR COMBINATION INLETS
 - ALL STORM SEWER CASTINGS SHALL HAVE THE FOLLOWING CAST IN RECESSED LETTERS:
"STORM SEWER"
"DUMP NO WASTE, DRAINS TO WATERWAY"
 - TYPE "M" INLETS/MH DENOTES INDOT NOMENCLATURE.

PIPE DATA TABLE									
UPSTREAM STRUCTURE NO.	DOWNSTREAM STRUCTURE NO.	L.F.	SIZE / TYPE	SLOPE %	UPSTREAM INV.	DOWNSTREAM INV.	SLOPE	UP STREAM	DOWN STREAM
601	600	25	75" 8" RCP	0.28%	900.70	900.50	0.48%	900.71	900.39
602	601	100	150" 15" RCP	0.53%	901.75	900.95	0.53%	901.51	900.71
603	602	245	244" 2" RCP	0.33%	902.70	902.00	0.33%	902.42	901.71
604	603	104	103" 12" RCP	0.30%	903.10	902.80	0.32%	902.80	902.47
606	605	82	80" 8" RCP	0.27%	901.30	900.50	0.84%	901.25	900.53
607	606	145	197" 8" RCP	0.44%	902.65	901.40	0.53%	902.29	901.25
608	607	204	253" 5" RCP	0.32%	903.70	902.90	0.36%	903.41	902.49
609	608	100	100" 12" RCP	0.45%	904.40	903.95	0.45%	904.16	903.71
610	609	87	83" 12" RCP	0.55%	904.80	904.50	0.92%	904.98	904.22
612	611	116	119" 8" RCP	1.04%	888.70	887.50	1.11%	888.80	887.48
613	612	285	287" 8" RCP	1.02%	894.00	891.10	1.05%	893.84	890.82
614	613	184	184" 12" RCP	0.75%	900.40	899.00	0.76%	900.27	898.87

TRAIL NOTE:
CONTRACTOR SHALL TAKE PRECAUTIONS TO LIMIT EXISTING TRAIL DAMAGE. REMOVE SECTION OF TRAIL FOR STORM PIPE INSTALLATION AND RECONSTRUCT TRAIL IMMEDIATELY AFTER COMPLETION. CONTRACTOR SHALL MATCH EXISTING TRAIL MATERIAL WHEN REPLACING TRAIL. PROVIDE PROPER SIGNAGE AND SAFETY FENCING/APPARATUS FOR WARNING AND PROTECTION OF PEDESTRIANS. COORDINATE TRAIL DEMOLITION AND RECONSTRUCTION WITH THE CITY OF WESTFIELD'S PARKS DEPARTMENT AND PUBLIC WORKS DEPARTMENT.

SANITARY SEWER AS-BUILT STATEMENT

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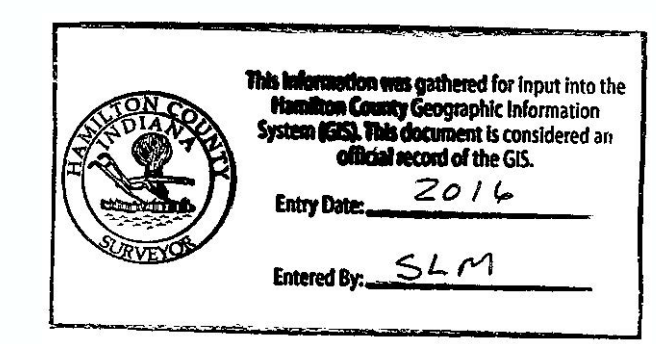
Bryon
Bryan J. Moll
Registered Land Surveyor No. 20500012



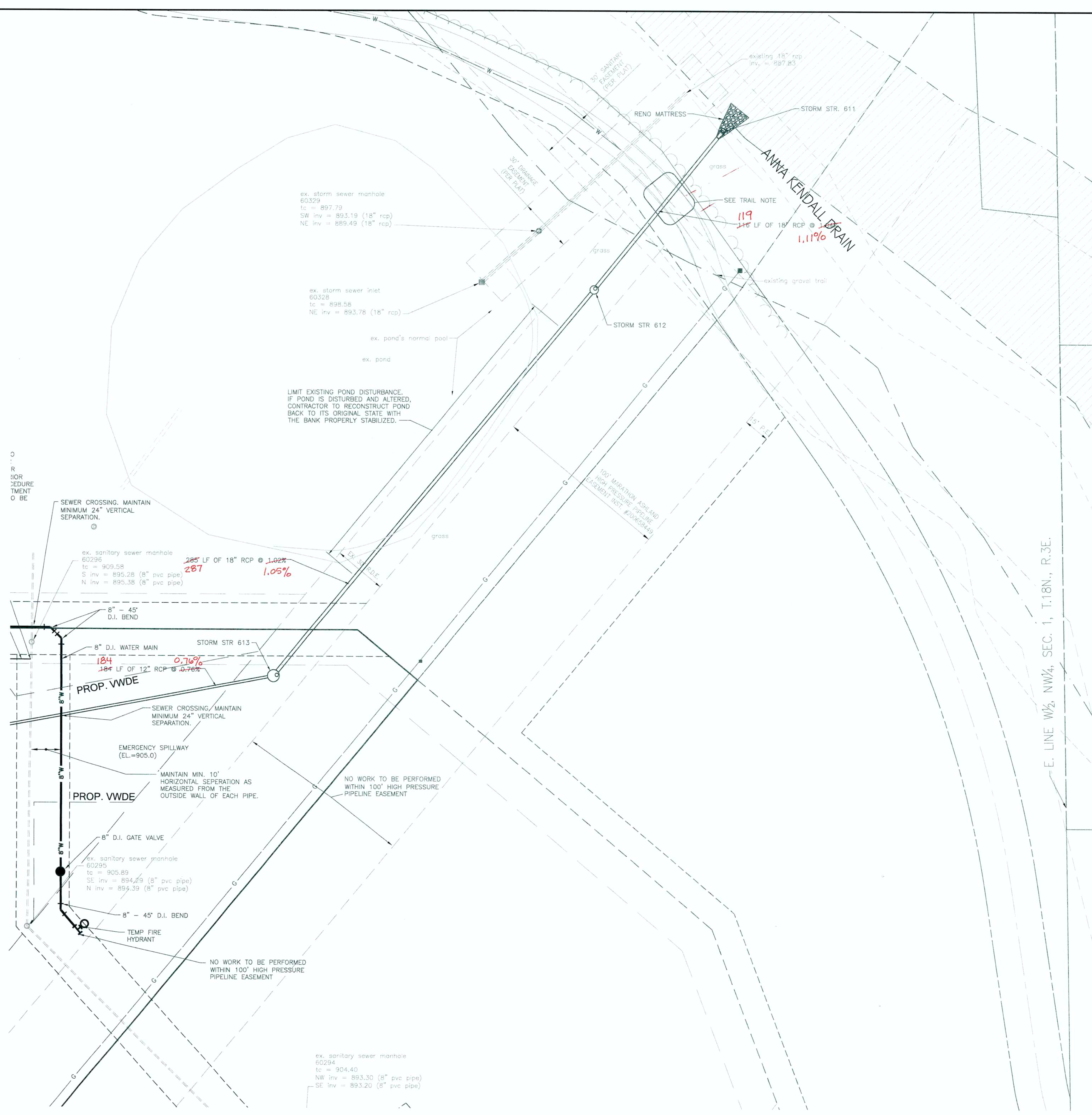
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E:\V0131\30020 - custom commerce park\dwg\30020 - Utility Plan.dwg Thursday, May 23, 2013 9:05:11 AM

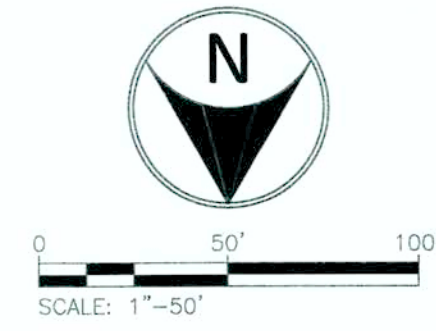
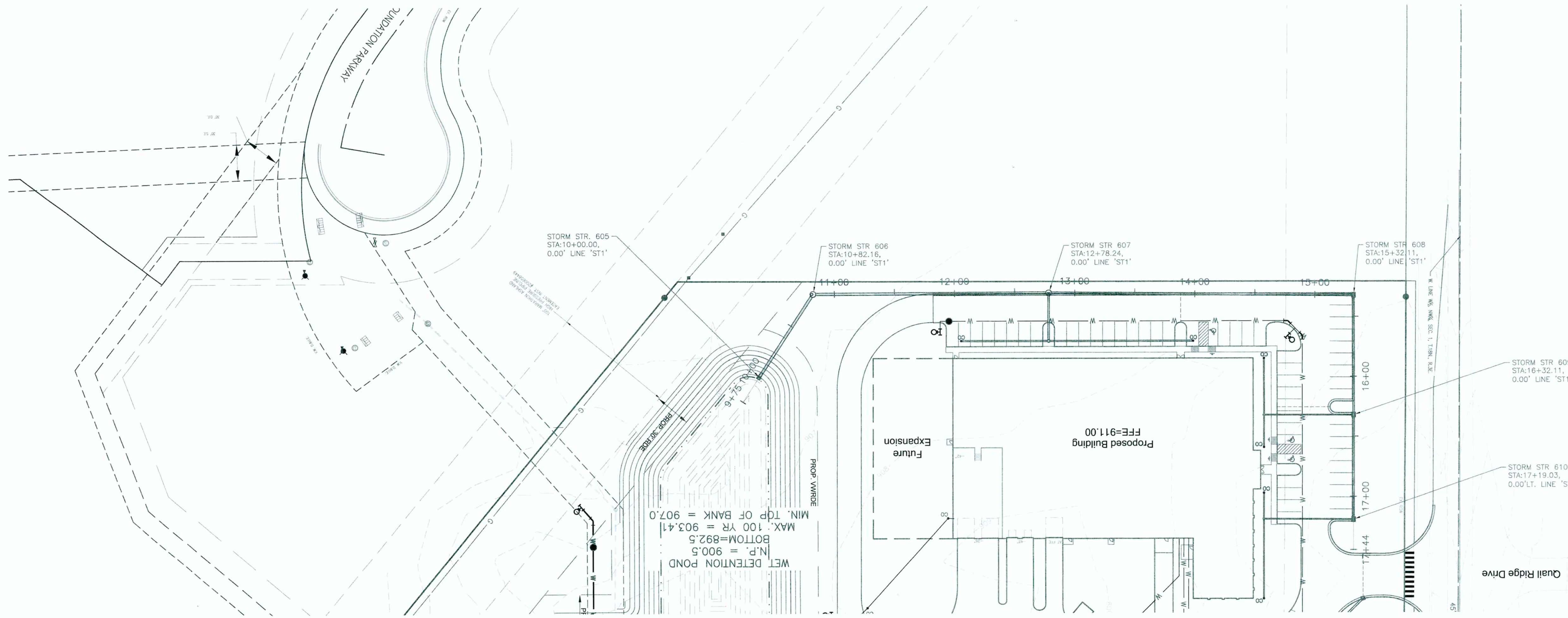
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Phone: 317.841.4281

DATE	BY	REVISION
5/20/13	NMS	REVISED PER THE COMMENTS DATED 5/09/13



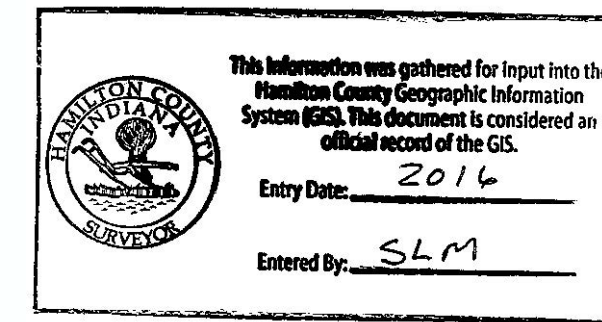
CONSTRUCTION PLANS FOR:
WEAS ENGINEERING
CUSTOM COMMERCE PARK, CAMBRIDGE ROAD, WESTFIELD, IN 46074
HADDAH T. I., LLC
4848 DEER RIDGE DR. NORTH, CARMEL, IN 46077
UTILITY PLAN

PLAN DATE:	5/02/2013
DESIGN:	NMS
CHECK:	NMS
DRAWN:	MWW
PROJECT NO.:	130020
SHEET NO.:	C402



ALIGNMENT NOTES:

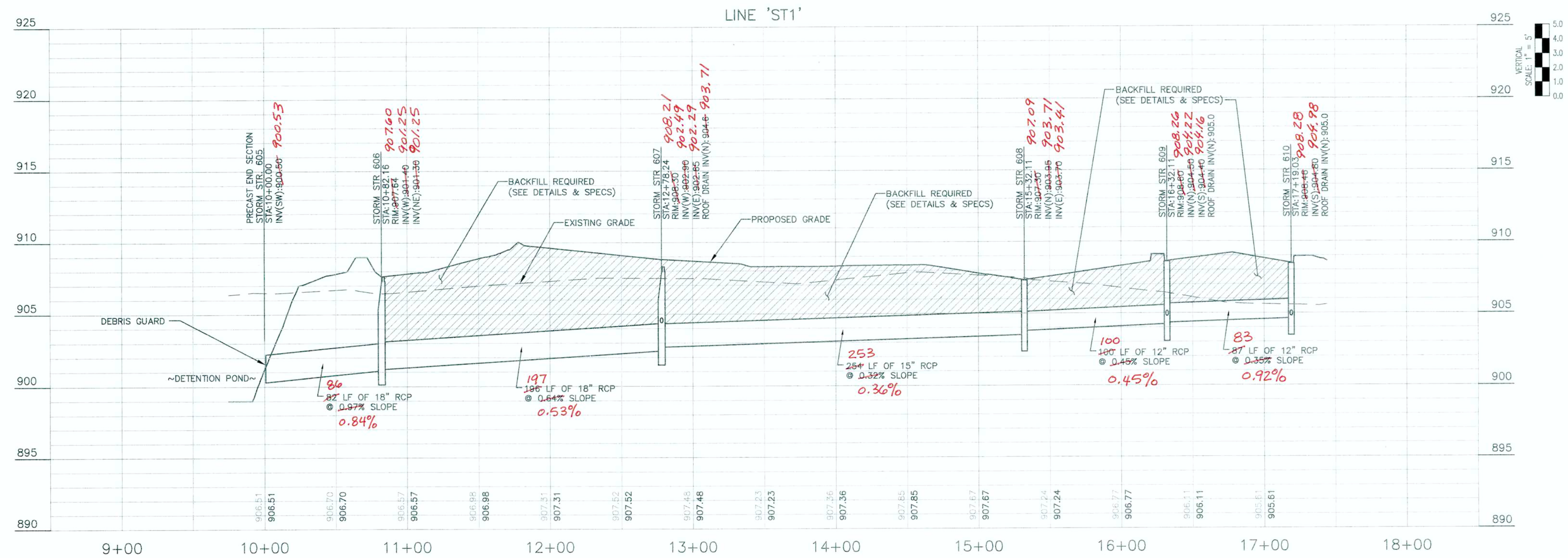
ALL STATIONS & OFFSETS ARE REFERENCED FROM LINE 'ST1' UNLESS NOTED OTHERWISE.
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AS-BUILT

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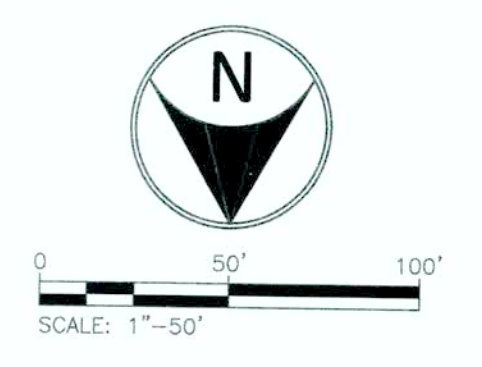
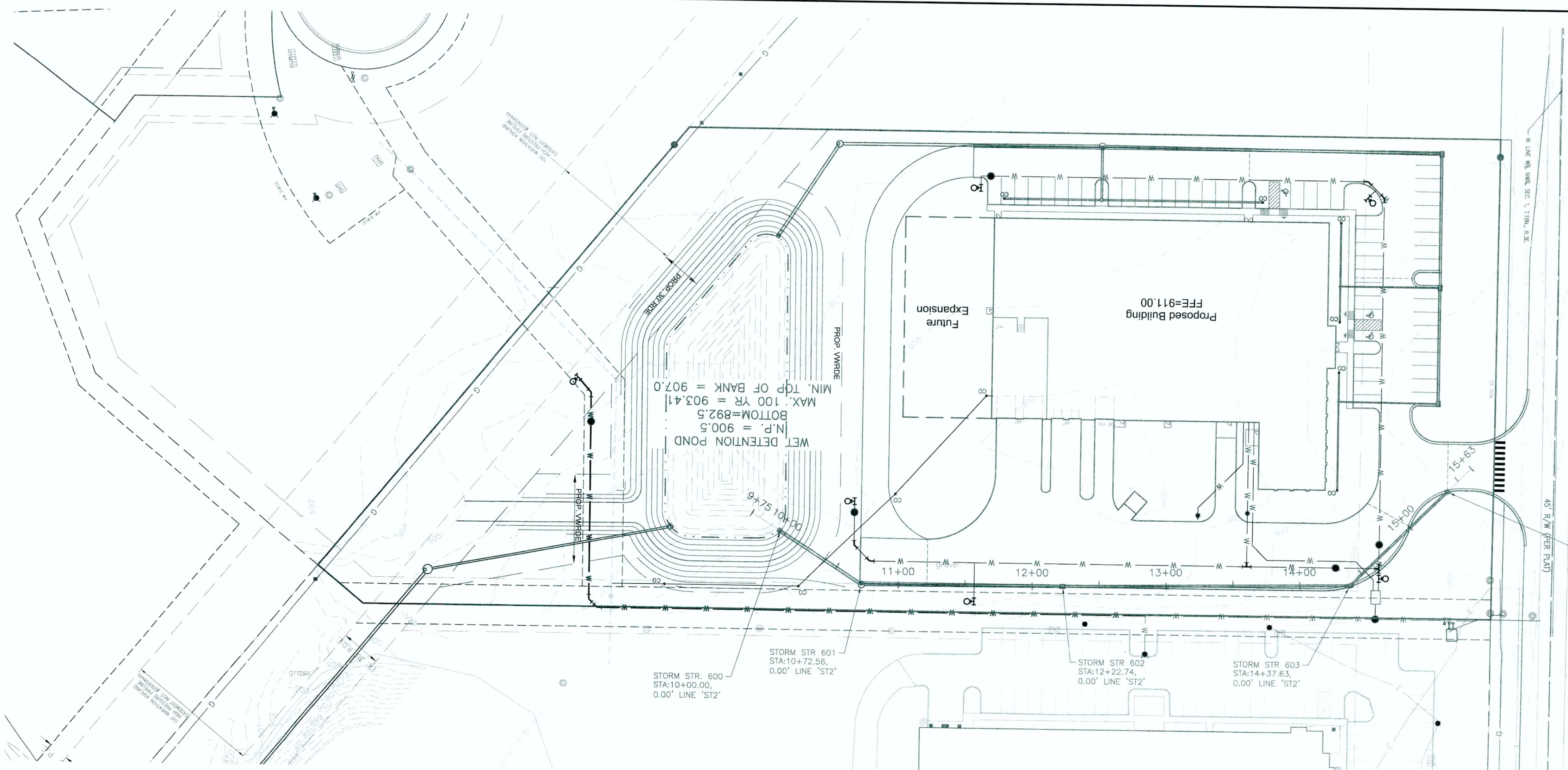
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DATE	BY	REVISIONS AND ISSUES
5/20/13 <td>NMS <td>REVISED PER TAC COMMENTS DATED 5/09/13</td> </td>	NMS <td>REVISED PER TAC COMMENTS DATED 5/09/13</td>	REVISED PER TAC COMMENTS DATED 5/09/13

NIKOLAS M. SCAMM
REGISTERED
No. 20500012
STATE OF INDIANA
LAND SURVEYOR
FOR REVIEW ONLY
05-23-13

CONSTRUCTION PLANS FOR:
WEAS ENGINEERING
HADAH II, LLC
4848 DEER RIDGE DR. NORTH, CARMEL, IN 46077
SEC. 1, TWP. 18N, RANGE 3E
STORM PLAN AND PROFILE

PLAN DATE: 5/02/2013
DESIGN: NMS CHECK: NMS DRAWN: MAM
PROJECT NO. 130020
SHEET NO. C601



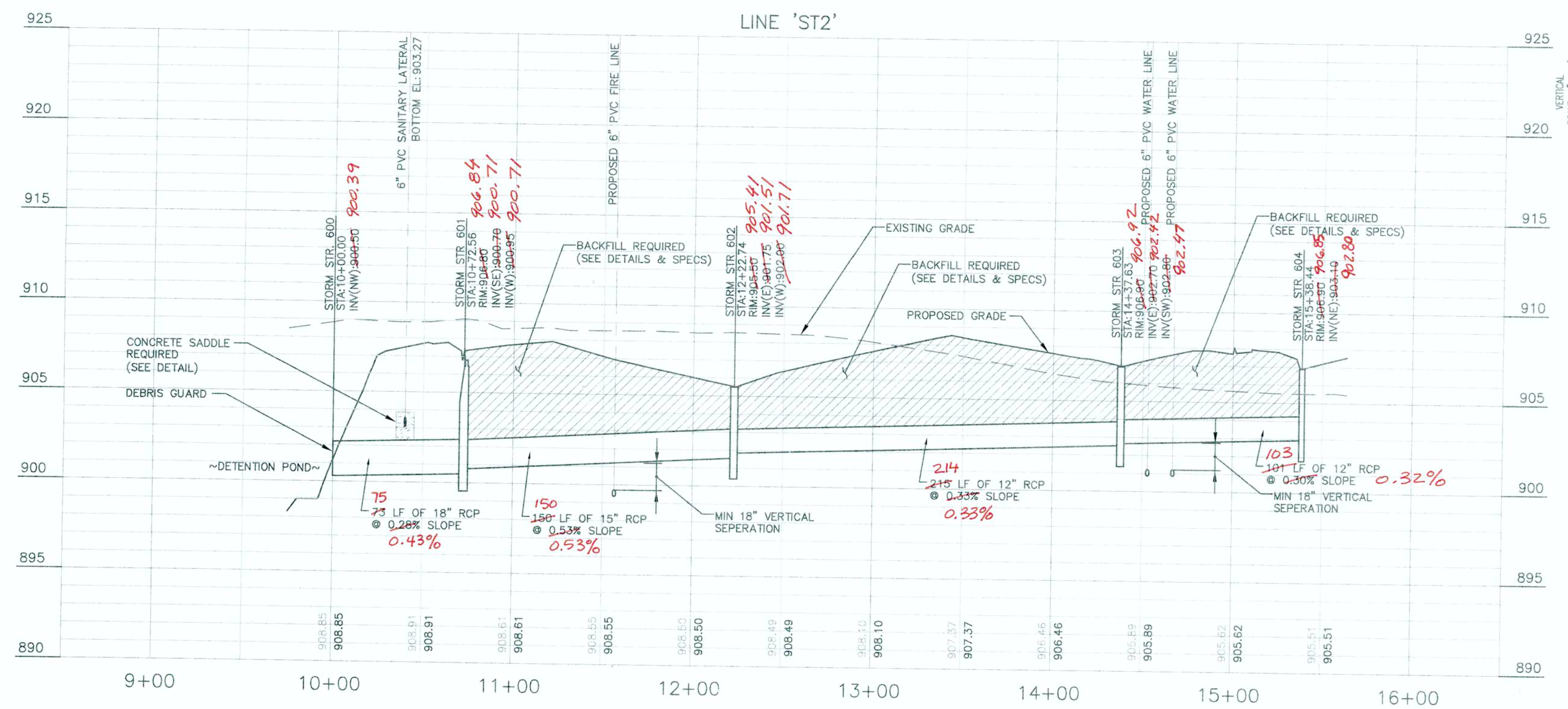
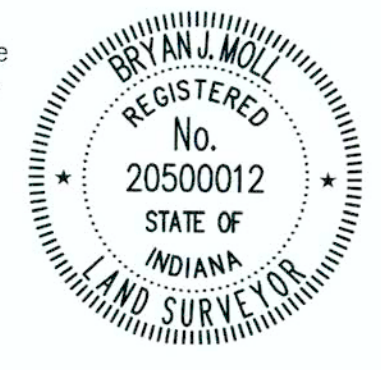
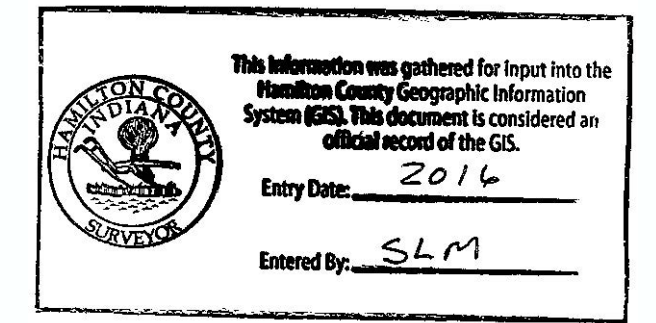
ALIGNMENT NOTES:

ALL STATIONS & OFFSETS ARE REFERENCED FROM LINE 'ST2' UNLESS NOTED OTHERWISE
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AS-BUILT

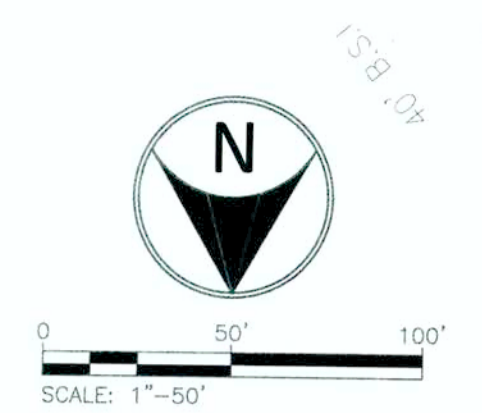
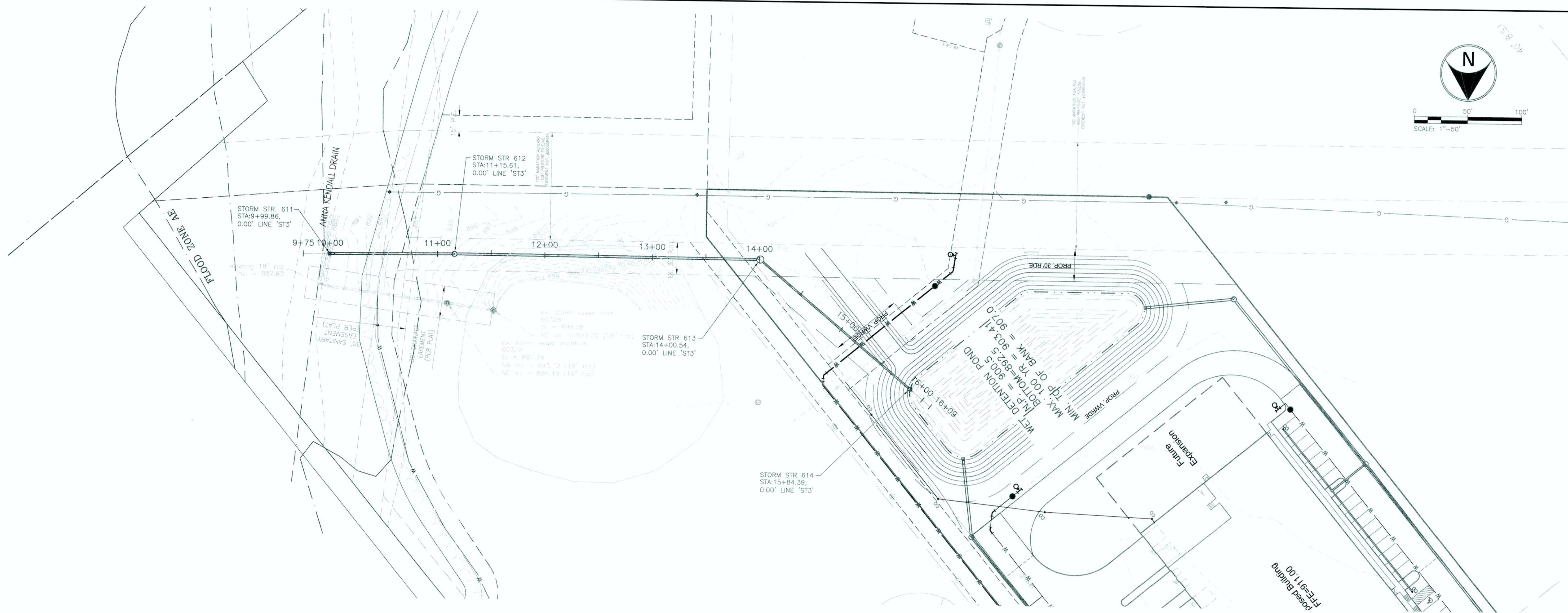


CONSTRUCTION PLANS FOR WEAS ENGINEERING
 CUSTOM COMMERCE PARK, CARBIDE ROAD, WESTFIELD, IN 46074 SEC. 1, TWP. 18N, RANGE 3E
 HADAH II, LLC
 4848 DEER RIDGE DR. NORTH, CARMEL, IN 46077
STORM PLAN AND PROFILE

PLAN DATE:	5/02/2013
DESIGN:	NMS
CHECK:	NMS
PROJECT NO.:	130020
SHEET NO.:	C602

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 Fax: 317.841.4281

REVISIONS AND ISSUES:	DATE:	BY:
REVISED PER IAC COMMENTS DATED 5/29/13	5/29/13	NMS

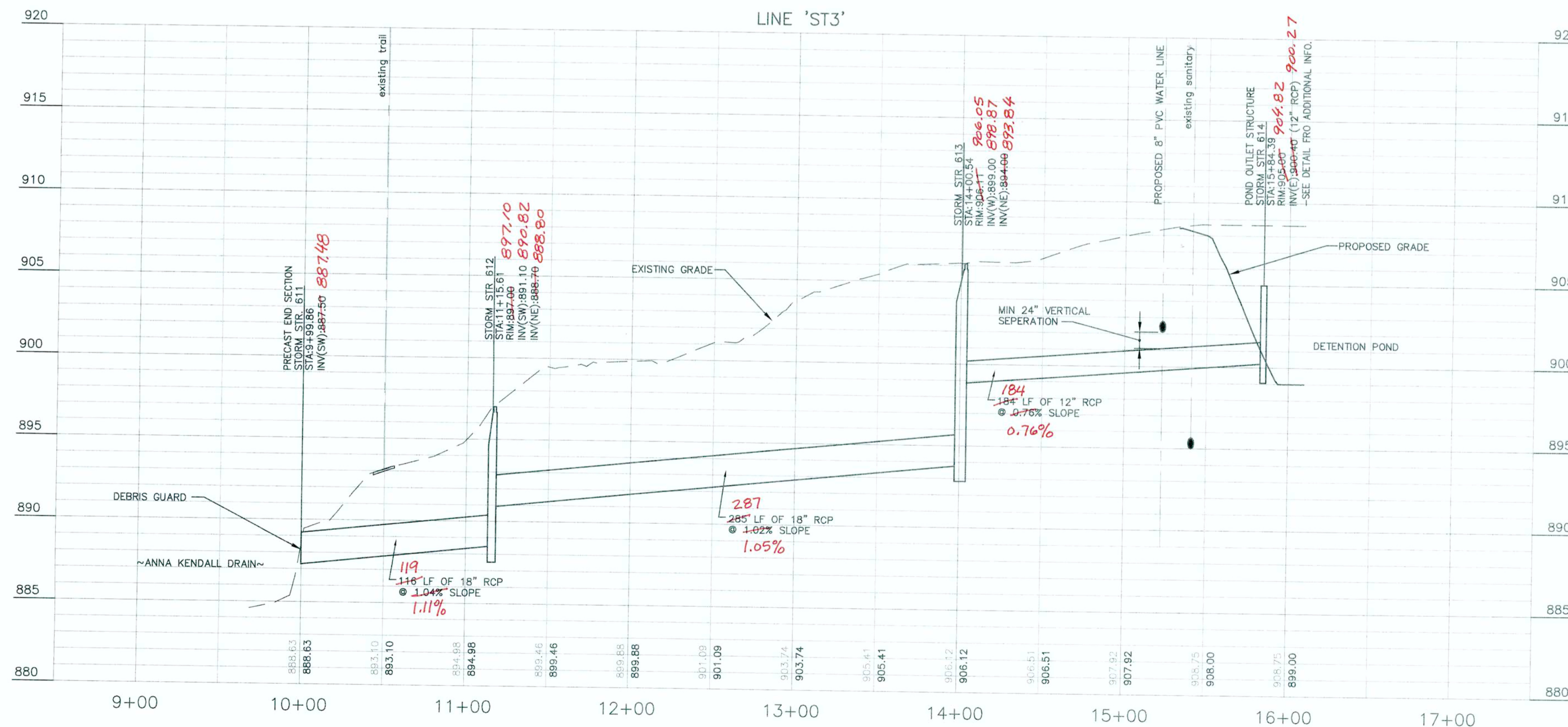


GRADING NOTES:

ONCE STORM PIPE HAS BEEN PLACED, PROPERLY BACKFILL OVER STORM PIPES (PER DETAILS/SPECS) UP TO PREVIOUS GRADE UNLESS NOTED OTHERWISE.

ALIGNMENT NOTES:

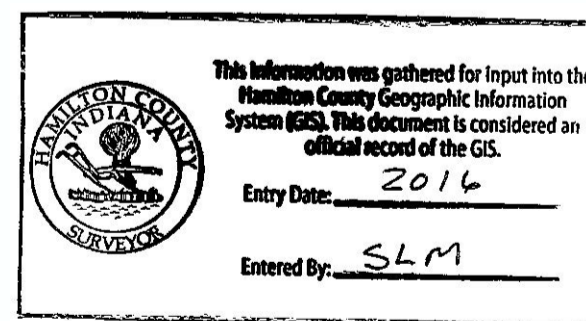
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Bryon J. Moll
 Bryon J. Moll
 Registered Land Surveyor No. 20500012



AS-BUILT

"IT'S THE LAW"



Know what's below.
 Call before you dig.
 2 WORKING DAYS BEFORE YOU DIG.

REVISIONS AND ISSUES

NO.	DATE	DESCRIPTION
1	5/27/13	ISSUED
2	5/27/13	REVISED PER FAC COMMENTS DATED 5/27/13



05-23-13

CONSTRUCTION PLANS FOR:
WEAS ENGINEERING
 CUSTOM COMMERCE PARK, CARRIDGE ROAD, WESTFIELD, IN 46074 SEC. 1, TWP. 18N, RANGE 3E
 HADAR II, LLC
 4848 DEER RIDGE DR. NORTH, CARMEL, IN 46037

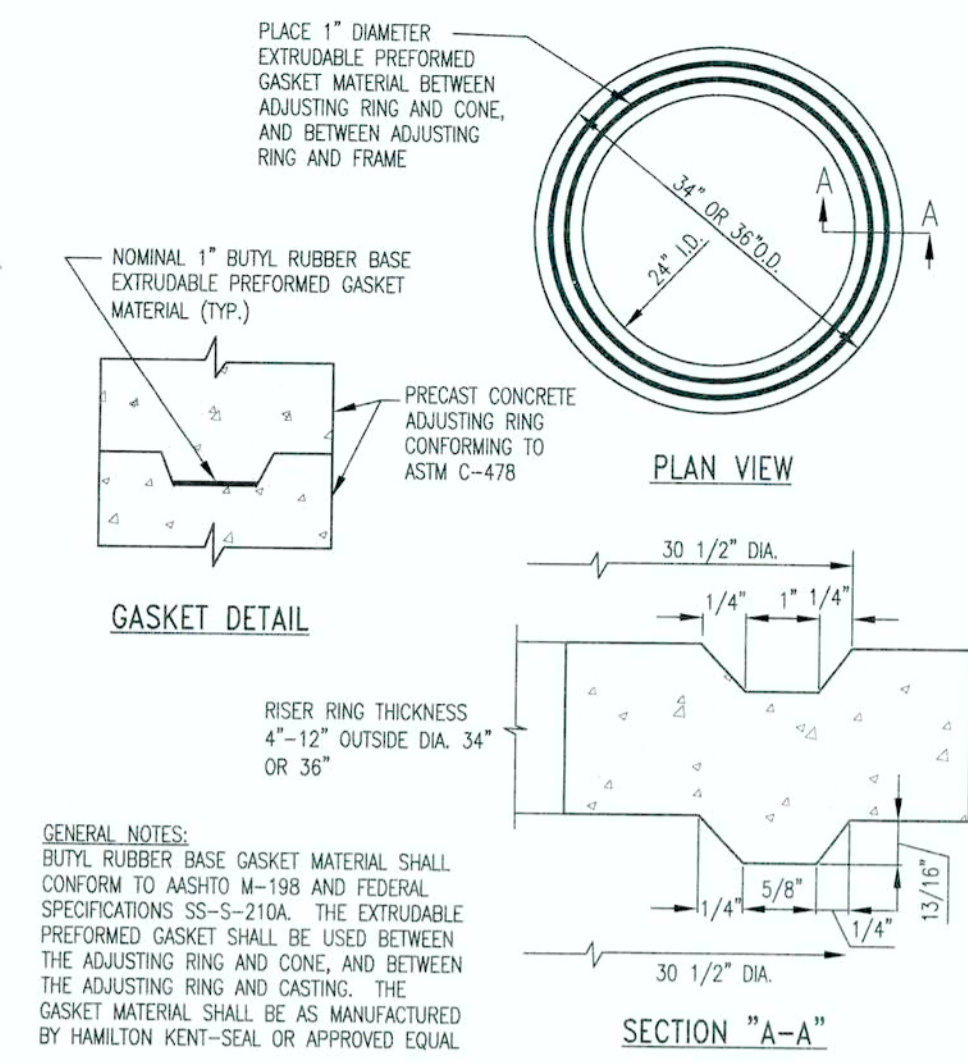
STORM PLAN AND PROFILE

PLAN DATE: 5/02/2013

DESIGN: NMS	CHECK: NMS	DRAWN: MWM
PROJECT NO: 130020	SHEET NO: C603	

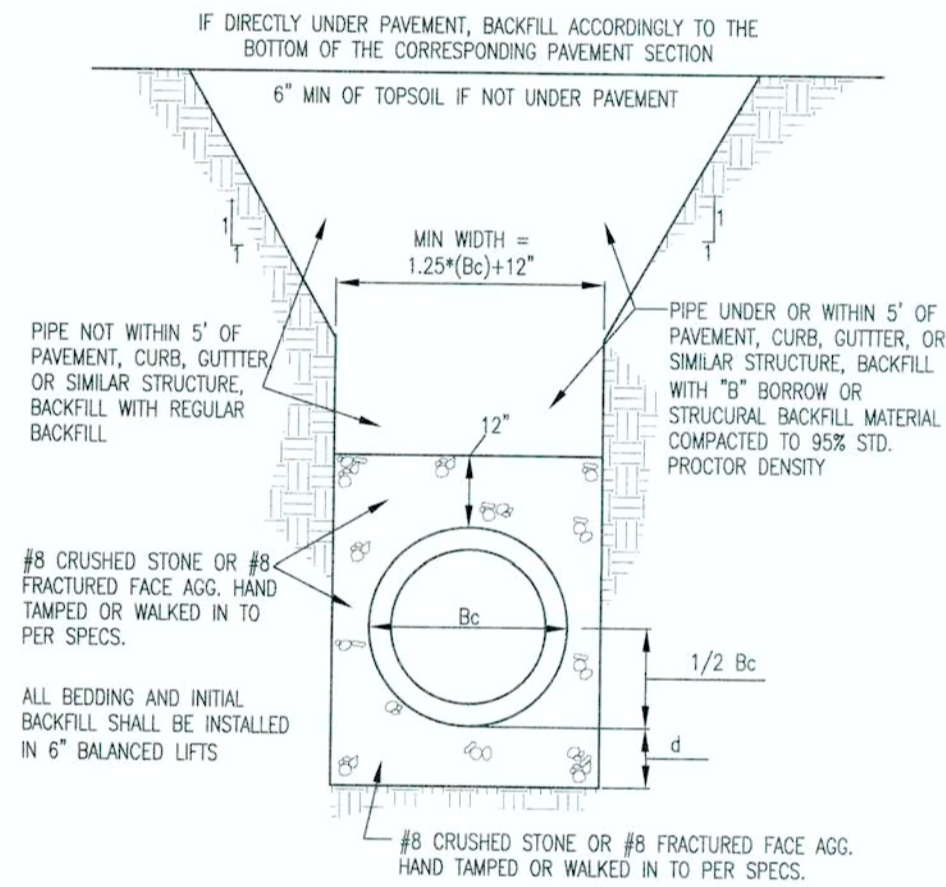
BLN
 Beam, Longest and Neff, LLC
 Consulting Engineers, Land Surveyors,
 & Landscape Architects

8126 Carleton Road, Indianapolis, IN 46250
 Phone: 317.849.9832
 www.BLN.com
 Fax: 317.841.4281

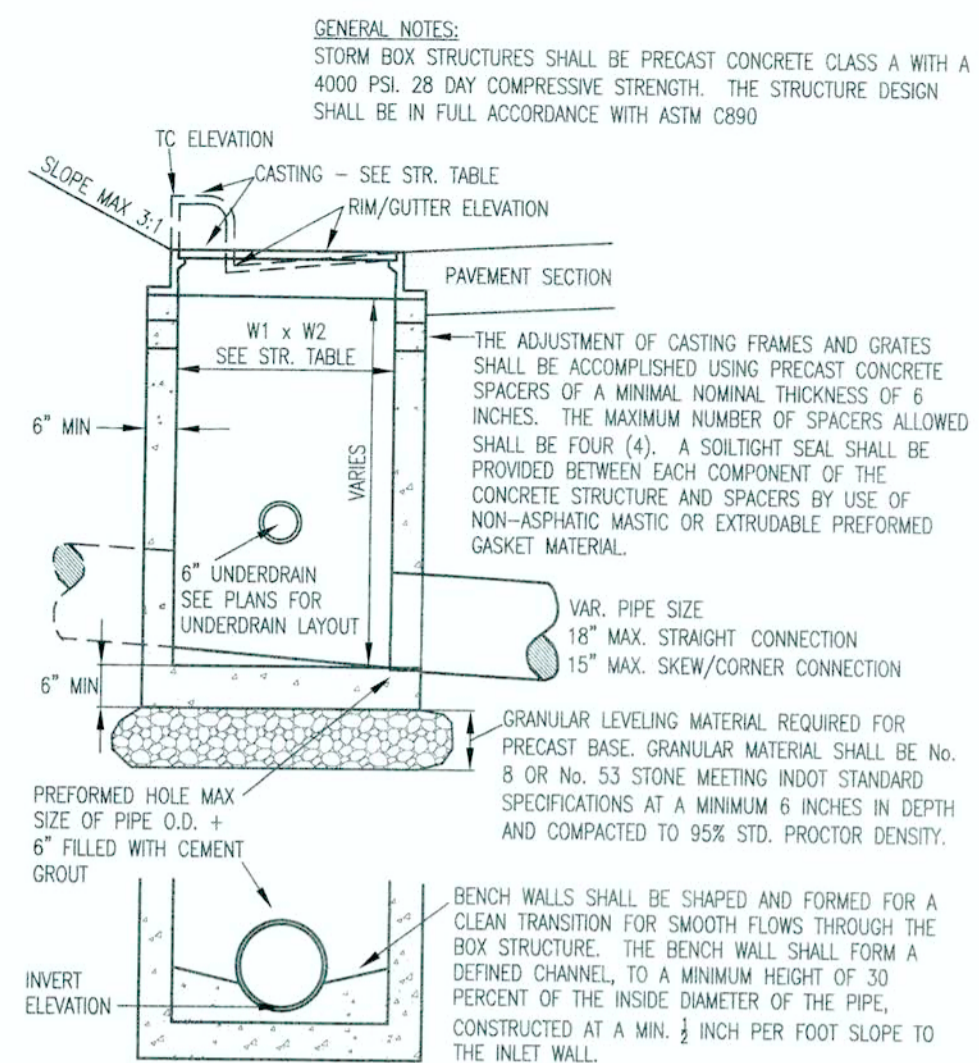


ADJUSTING RING DETAIL
NOT TO SCALE

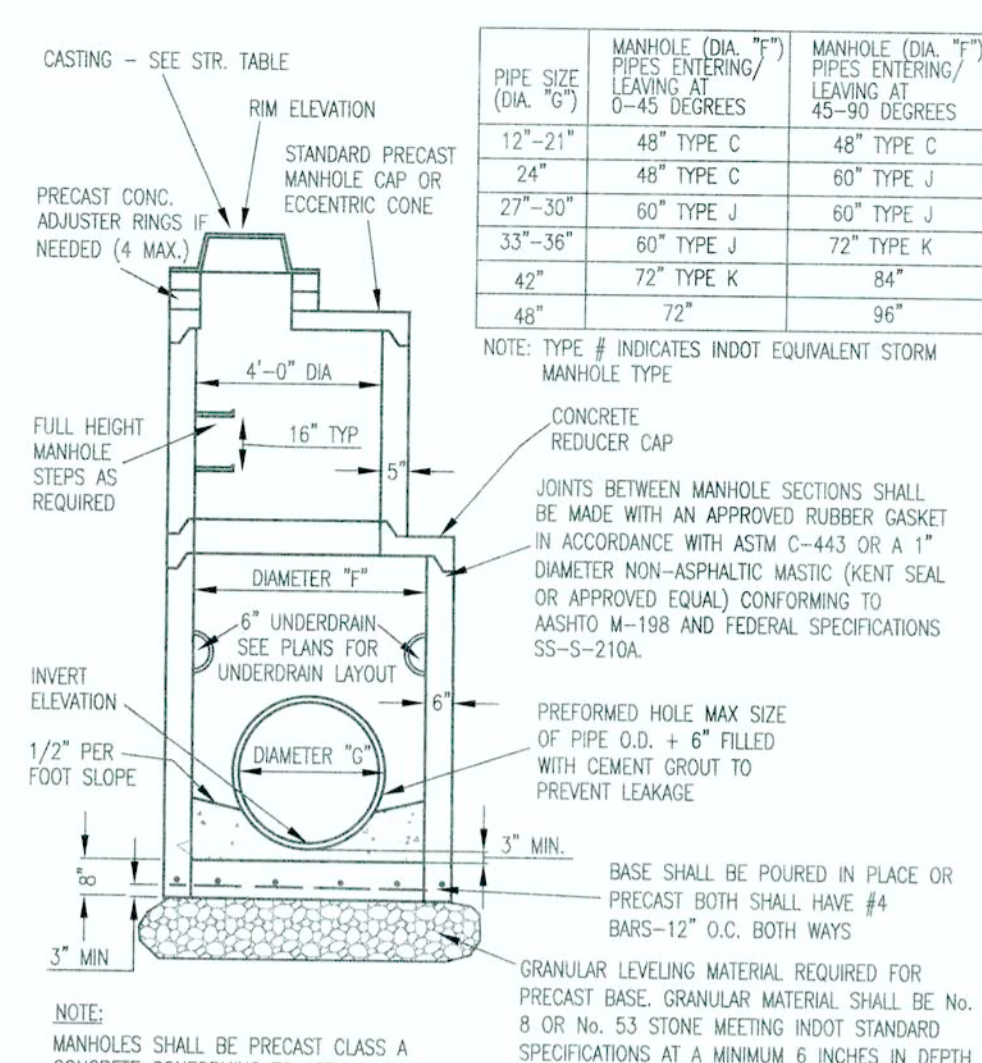
Bc = OUTSIDE DIAMETER	D = PIPE SIZE	8" - 15"	18" & OVER
d = INSIDE DIAMETER	d - BEDDING	O.D./4	O.D./4
D = DEPTH OF BEDDING MATERIAL BELOW PIPE		MIN=4"	MAX=6"



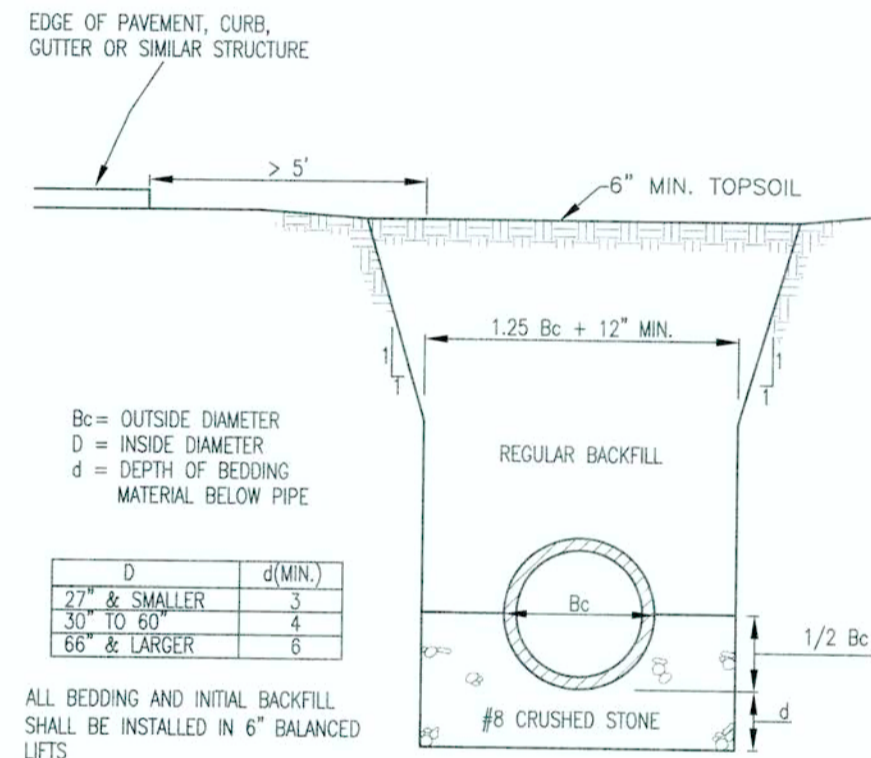
HDPE BEDDING SECTION DETAIL
NOT TO SCALE



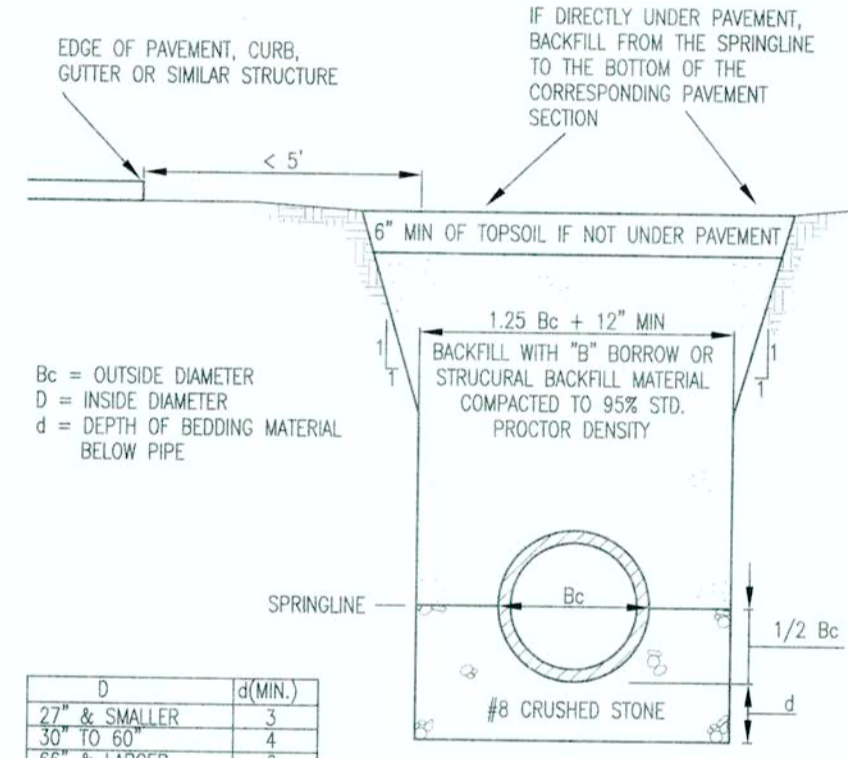
STORM BOX STRUCTURE
NOT TO SCALE



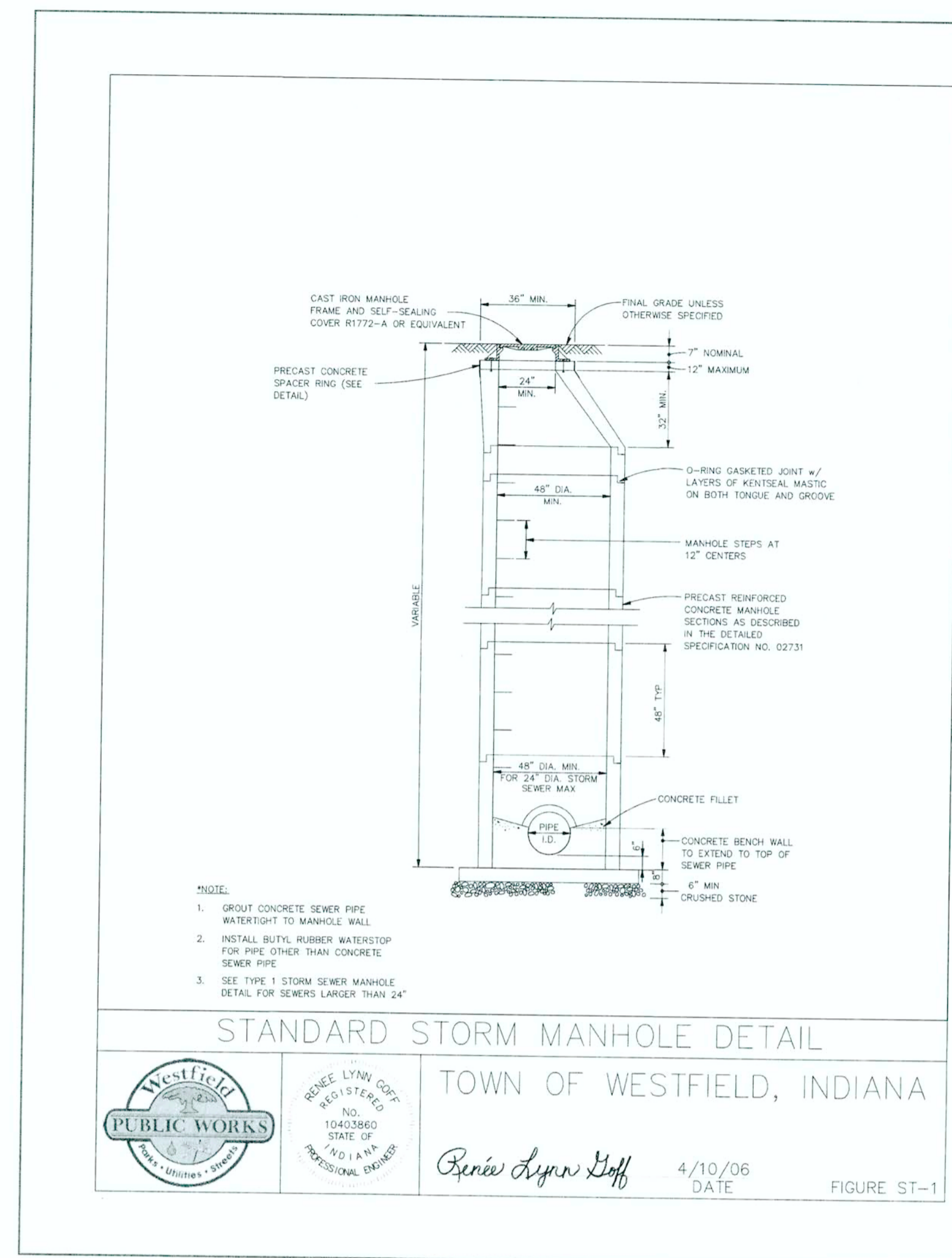
STANDARD STORM MANHOLE
NOT TO SCALE



RCP BEDDING SECTION > 5' FROM EDGE OF PAVEMENT
NOT TO SCALE

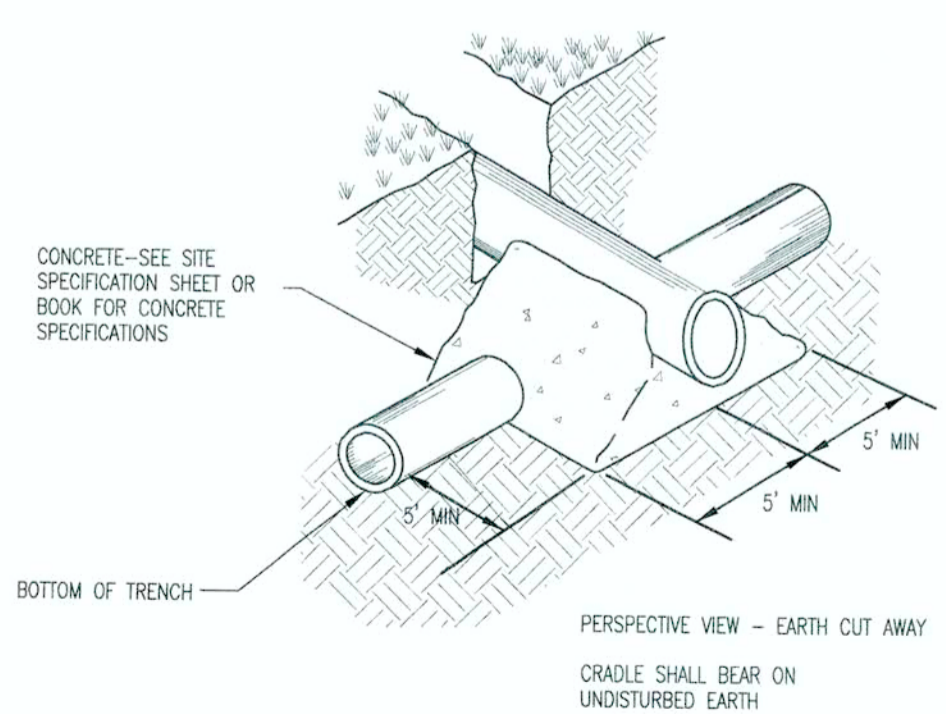


RCP BEDDING SECTION < 5' FROM EDGE OF PAVEMENT
NOT TO SCALE

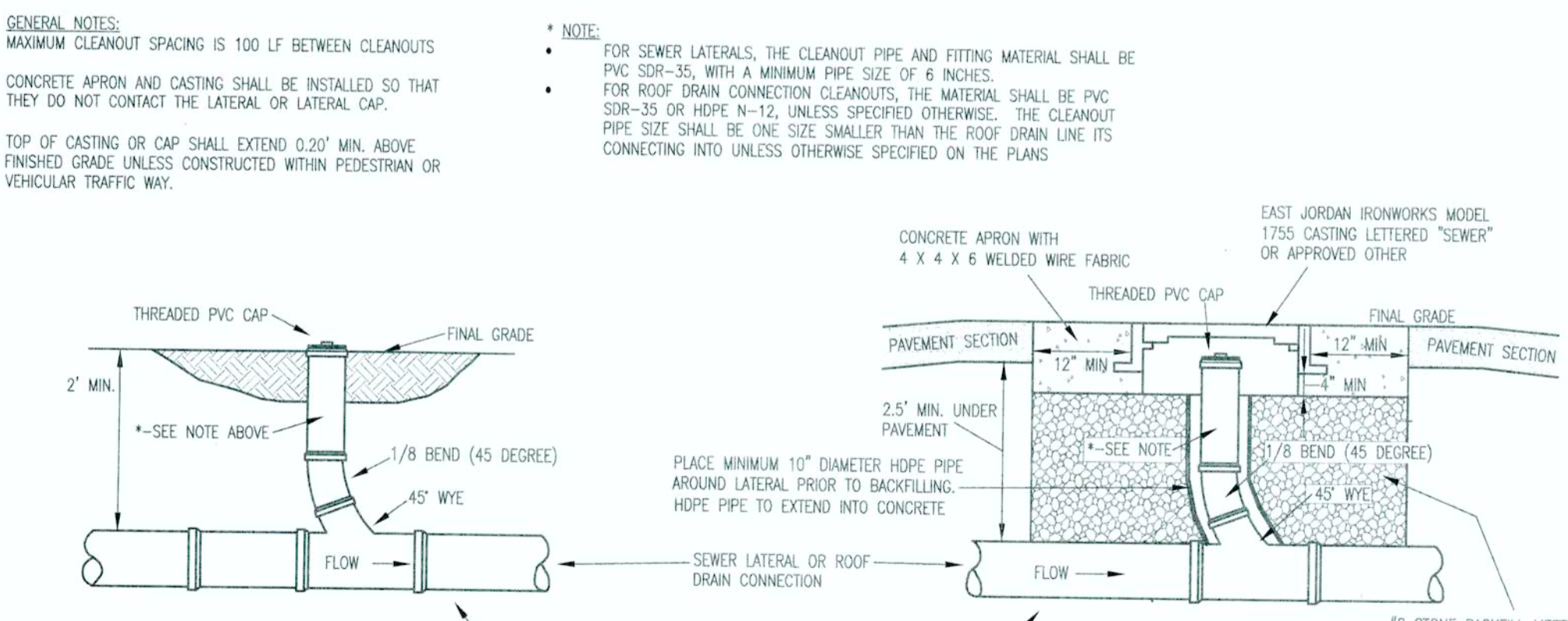


AS-BUILT

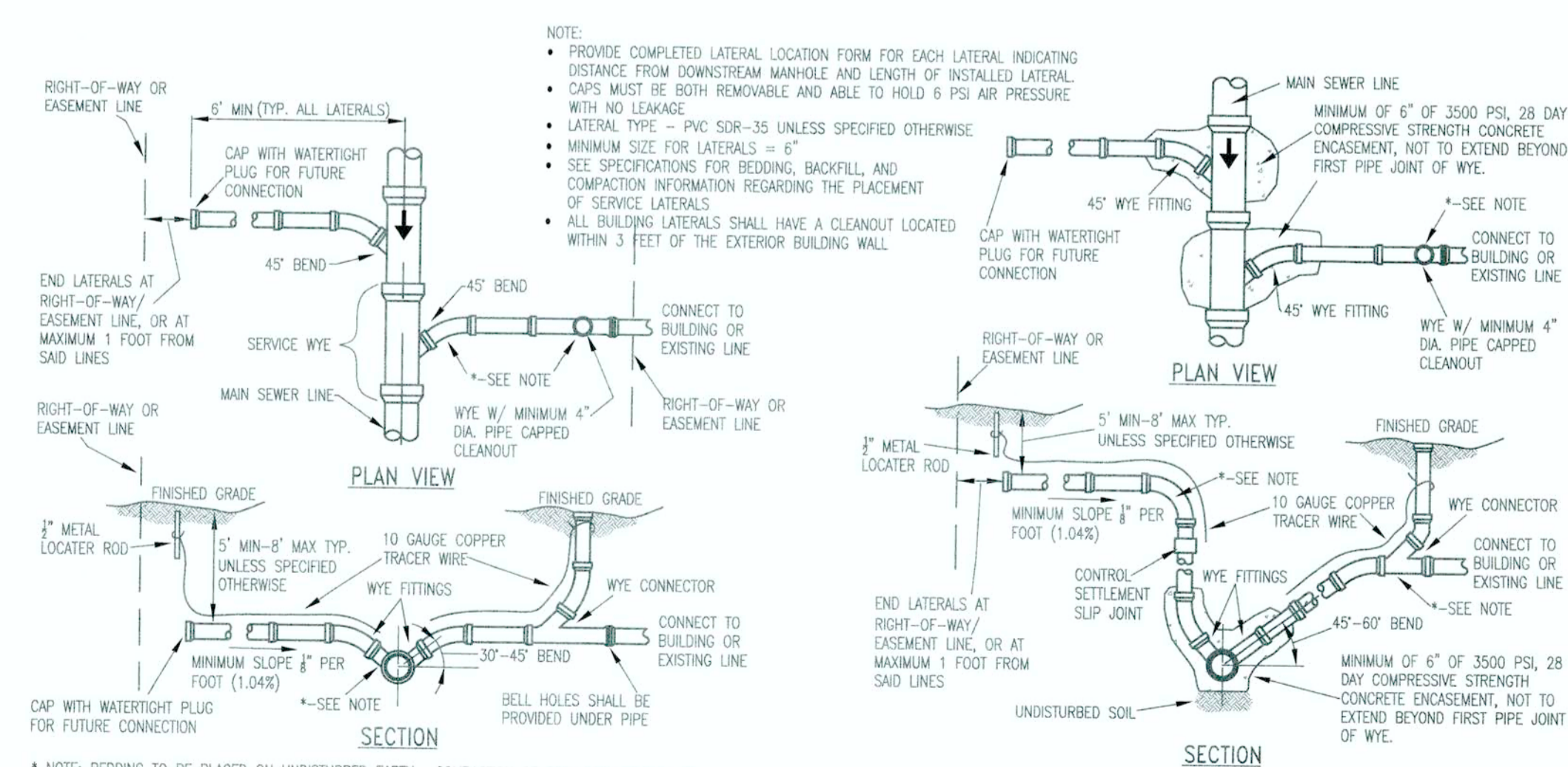
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Entry Date: 2016
Entered By: SLM



CONCRETE CRADLE DETAIL
NOT TO SCALE



TYPICAL ROOF DRAIN CLEANOUT SECTION
NOT TO SCALE



SERVICE LATERAL/ROOF DRAIN DETAILS
NOT TO SCALE

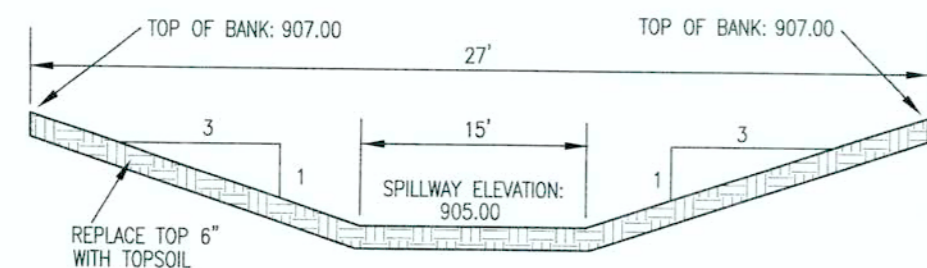
BLN Beam, Longest and Neff, LLC
Consulting Engineers, Land Surveyors, & Landscape Architects
www.BLN.com
8126 Castleton Road, Indianapolis, IN 46250
Phone: 317.849.5852

REVISIONS AND ISSUES
DATE: 11/26/13
BY: [Signature]

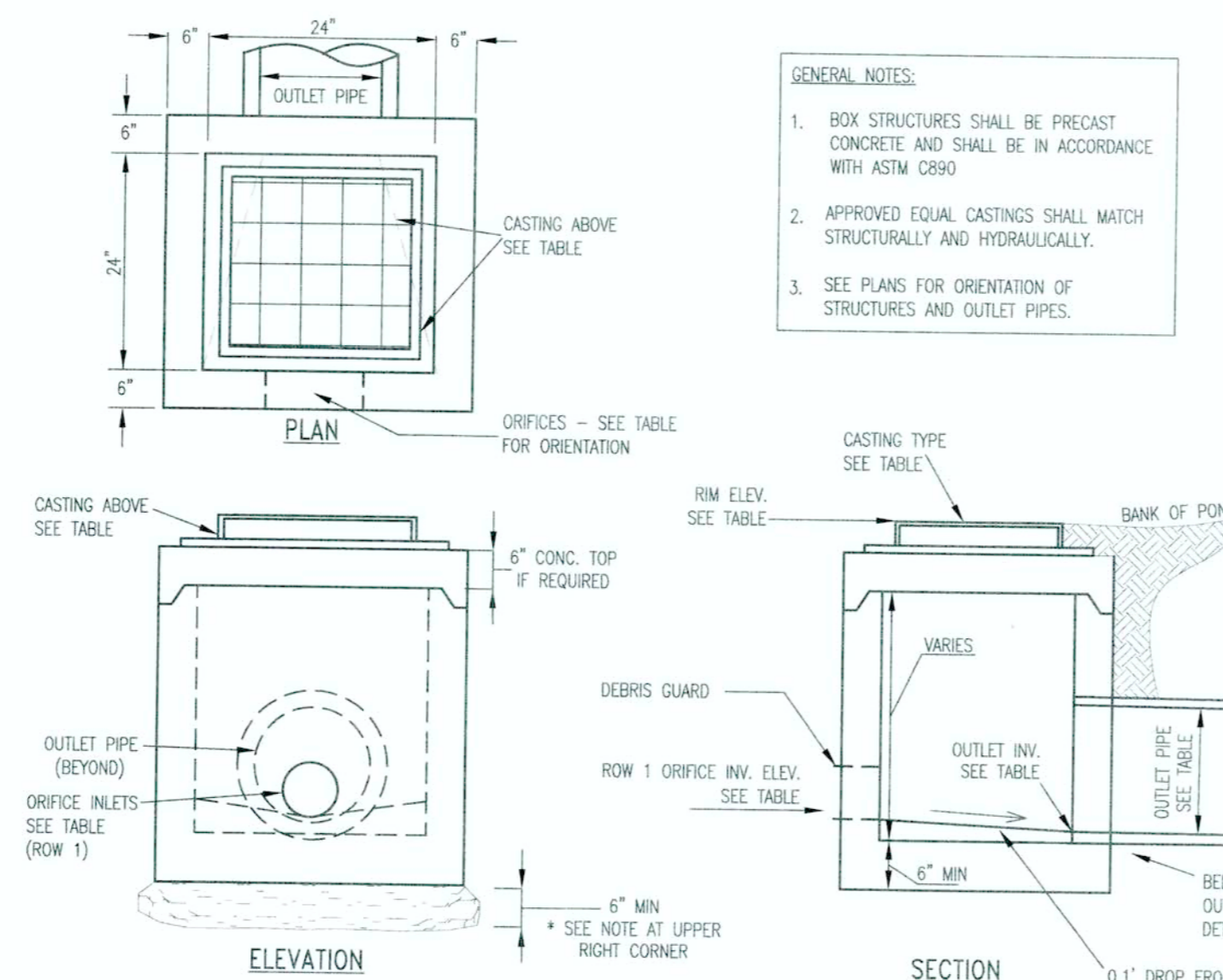
NICHOLAS M. SCHEIDT
REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY FOR REVIEW ONLY
05-23-13

CONSTRUCTION PLANS FOR WEAS ENGINEERING
HADAH II, LLC
CUSTOM COMMERCE PARK, OAKRIDGE ROAD, WESTFIELD, IN 46074 SEC. 1, TWP. 18N, RANGE 3E
4848 DEER RIDGE DR. NORTH, CARMEL, IN 46077

STORM DETAILS
PLAN DATE: 5/02/2013
DESIGN: MD
CHECK: NCS
DRAWING: MAM
PROJECT NO: 130020
SHEET NO: C803



EMERGENCY OVERFLOW SPILLWAY
NOT TO SCALE



POND OUTLET DETAIL
NOT TO SCALE

GENERAL NOTES:

1. BOX STRUCTURES SHALL BE PRECAST CONCRETE AND SHALL BE IN ACCORDANCE WITH ASTM C890
2. APPROVED EQUAL CASTINGS SHALL MATCH STRUCTURALLY AND HYDRAULICALLY.
3. SEE PLANS FOR ORIENTATION OF STRUCTURES AND OUTLET PIPES.

*** NOTE**

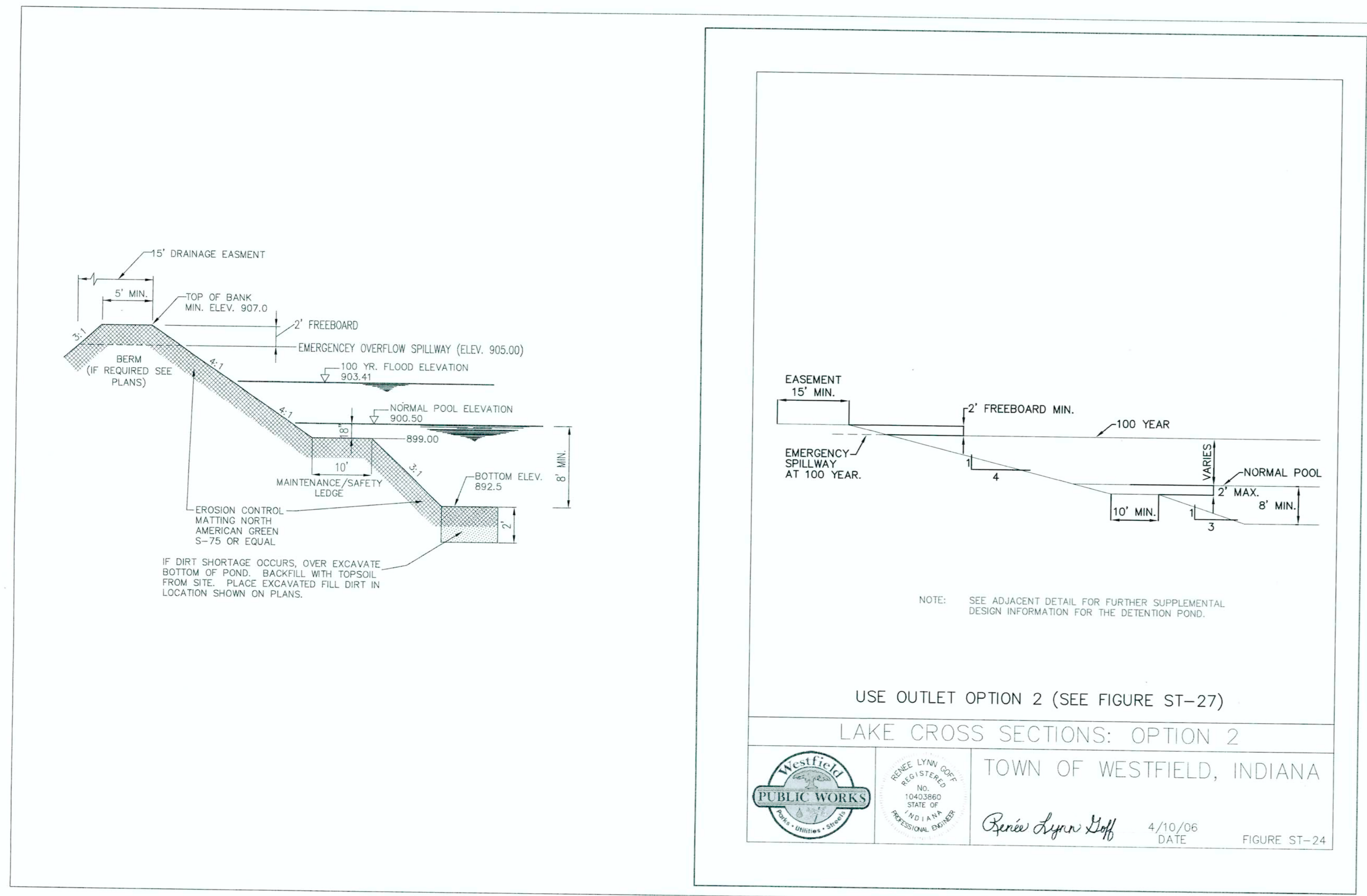
- GRANULAR LEVELING MATERIAL REQUIRED FOR PRECAST BASE.
- GRANULAR MATERIAL SHALL BE No. 8 OR No. 53 STONE MEETING INDOT STANDARD SPECIFICATIONS AT A MINIMUM 6 INCHES IN DEPTH AND COMPACTED TO 95% STD. PROCTOR DENSITY

CONTROL STRUCTURE DATA

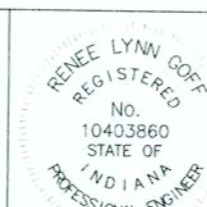
CONTROL STRUCTURE ID:	614
STRUCTURE SIZE:	24" x 24" BOX
CASTING NUMBER:	R-3433 (NEENAH)
CASTING SIZE PERM.:	24"x24"
CASTING TYPE:	SQUARE GRATE
RIM ELEVATION:	905.00
ORIFICE ORIENTATION:	SOUTHWEST
ORIFICES:	QTY: 1 ROW 1: 1 ELEV: 900.30 DIM: 6" DIA. 900.32
OUTLET PIPE:	12" RCP
OUTLET INVERT:	900.40
OUTLET ORIENTATION:	NORTHEAST

900.27

BEDDING AND BACKFILL REQUIREMENTS FOR OUTLET PIPE - REFER TO STORM SEWER DETAILS AND SPECIFICATIONS



TYPICAL DETENTION POND SECTION
NOT TO SCALE



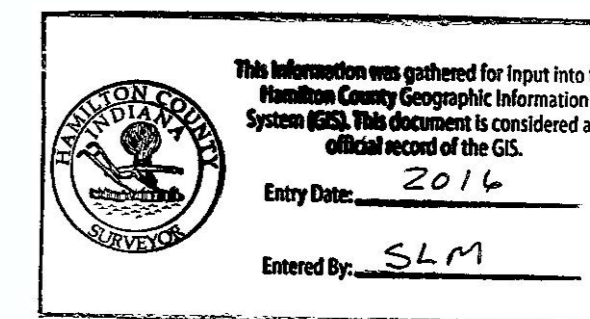
TOWN OF WESTFIELD, INDIANA

Renée Lynn Hoff

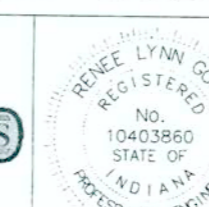
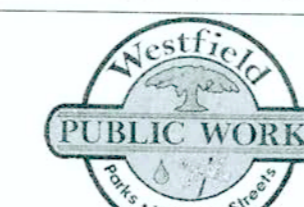
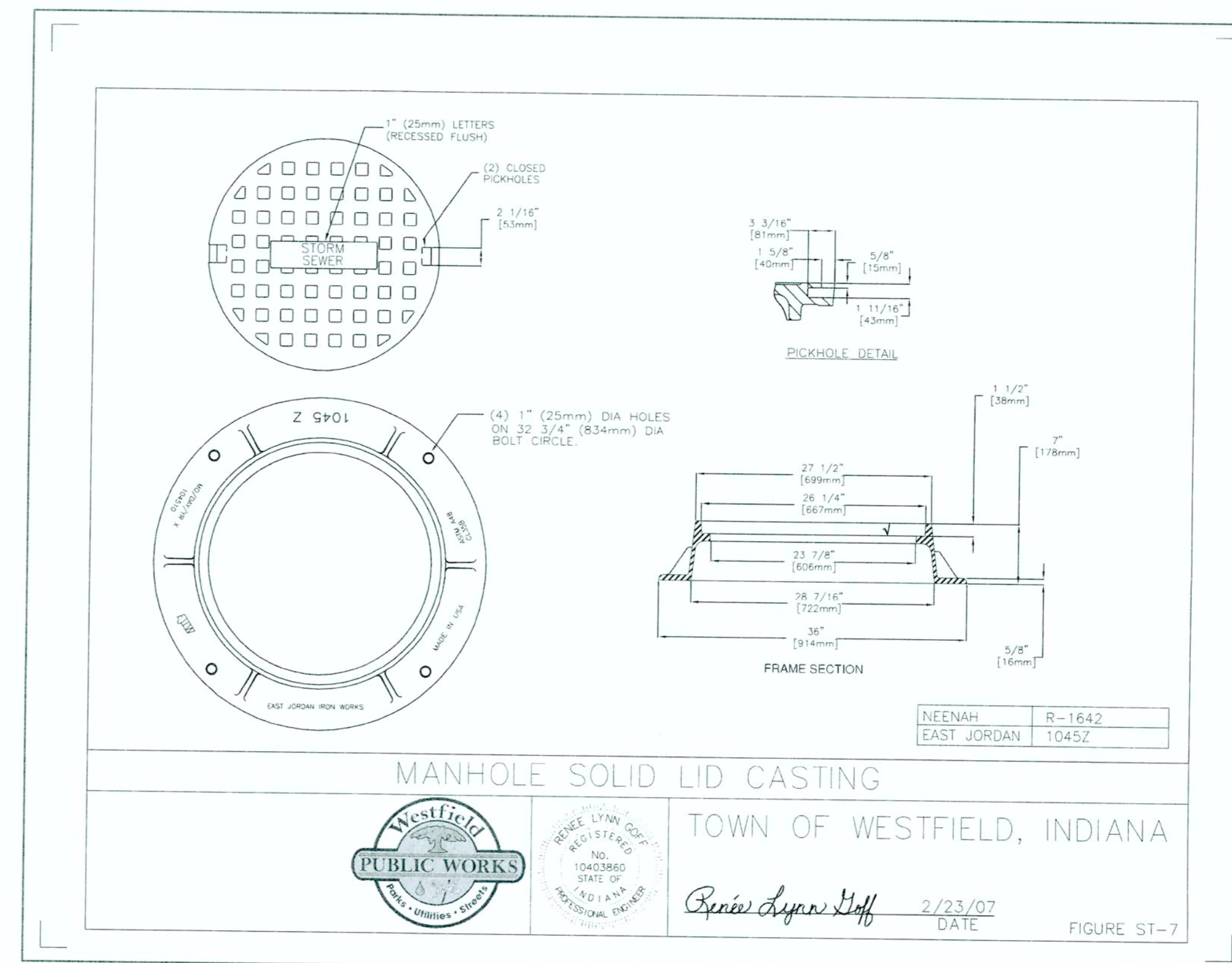
4/10/06 DATE

FIGURE ST-24

AS-BUILT



05-23-13



TOWN OF WESTFIELD, INDIANA

Renée Lynn Hoff

2/23/07 DATE

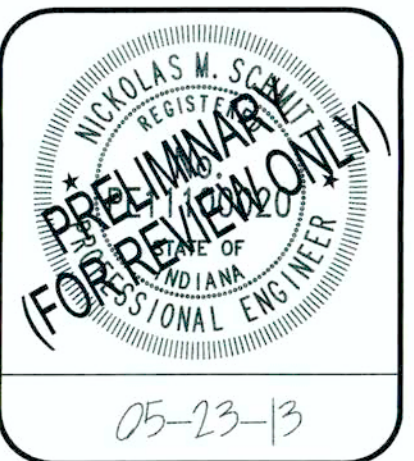
FIGURE ST-7

CONSTRUCTION PLANS FOR:
WEAS ENGINEERING
CUSTOM COMMERCE PARK, OAKRIDGE ROAD, WESTFIELD, IN 46074
HADAH II, LLC
4848 DEER RIDGE DR. NORTH, CARMEL, IN 46077
SEC. 1, TWP. 18N, RANGE 3E
STORM DETAILS

PLAN DATE: 5/02/2013
DESIGN: NMS CHECK: NMS DRAWN: MAW
PROJECT NO. 130020
SHEET NO. C804

BLN Beam, Longest and Neff, LLC
Consulting Engineers, Land Surveyors,
& Landscape Architects
8126 Cavellton Road, Indianapolis, IN 46259
Phone: 317.849.8832
www.BLN.com
Fax: 317.841.4281

REVISIONS AND ISSUES	DATE	BY
REVISED PER THE COMMENTS DATED 5/09/13	5/09/13	NMS



CONSTRUCTION PLANS FOR
WEAS ENGINEERING
 HADDAH II, LLC
 4848 DEER RIDGE DR., NORTH, CARMEL, IN 46077
 CUSTOM COMMERCE PARK, OMBRIDGE ROAD, WESTFIELD, IN 46074
 SEC. 1, TWP. 18N, RANGE 3E
STORM DETAILS

PLAN DATE: 5/02/2013
 DESIGN: NMS
 CHECK: NMS
 DRAWN: MWH
 PROJECT NO. 130020
 SHEET NO. C805

DEBRIS GUARD

TOWN OF WESTFIELD, INDIANA

Renée Lynn Jeff 4/10/06 DATE FIGURE ST-29

SIDE PROFILE

TOP VIEW

Apron Size	V-bar Size	No. of H-bars	H-bar Size	Bolt Size	"A" Dia.
18	1/2	3	5/8	1/2	5
24	5/8	4	3/4	1/2	7
30	5/8	4	3/4	1/2	7 1/2
36	3/4	4	1	1/2	10 1/2
42	3/4	4	1	3/4	11
48	3/4	4	1 1/2 pipe	3/4	12
54	3/4	4	1 1/2 pipe	3/4	12
60	3/4	5	1 1/2 pipe	3/4	14
72	3/4	5	1 1/2 pipe	3/4	14
84	3/4	6	1 1/2 pipe	3/4	15

Apron Size	V-bar Size	No. of H-bars	H-bar Size	Bolt Size	"A" Dia.
12	1/2	3	5/8	1/2	4
15	1/2	3	5/8	1/2	4 1/2
18	1/2	4	5/8	1/2	4 1/2
21	1/2	4	5/8	1/2	5
24	5/8	4	3/4	1/2	5
27	5/8	4	3/4	1/2	5 1/2
30	5/8	4	3/4	1/2	5 1/2
36	3/4	4	1	3/4	8
42	3/4	4	1	3/4	8
48	3/4	5	1 1/2 pipe	3/4	8
54	3/4	5	1 1/2 pipe	3/4	8
66	3/4	6	1 1/2 pipe	3/4	8
72	3/4	6	1 1/2 pipe	3/4	9
84	3/4	7	1 1/2 pipe	3/4	10
90	3/4	7	1 1/2 pipe	3/4	14

(DRAWING NOT TO SCALE)

NOTES:
 1. BARS & PLATES ARE HOT-ROLLED STEEL.
 2. BARS, PLATES, & PIPE ARE FINISHED WITH 2 COATS OF ALUMINUM PAINT.
 3. BOLTS ARE GALVANIZED.
 4. NO REBAR THROUGH PIPES WILL BE ALLOWED.
 5. DEBRIS GUARD SHALL BE REMOVABLE.

END SECTION DETAIL AND NOTES

NOT TO SCALE

LONGITUDINAL SECTION

PLAN VIEW

SECTION A-A CONC. PIPE TOE ANCHOR

SECTION Y-Y

DIA. T (MIN)	A	C	D	E	K	R 1	R 2	REINFORC. (MIN)
12"	5"	4"	6"	2"	1.3	10 1/8"	5"	800
15"	7"	4"	6"	2"	1.3	12 1/2"	5"	1100
18"	7"	4"	6"	2"	1.3	15 1/2"	5"	1300
21"	7"	4"	6"	2"	1.3	18 1/2"	5"	1500
24"	7"	4"	6"	2"	1.3	21 1/2"	5"	1700
27"	7"	4"	6"	2"	1.3	24 1/2"	5"	1900
30"	7"	4"	6"	2"	1.3	27 1/2"	5"	2100
36"	7"	4"	6"	2"	1.3	34 1/2"	5"	2500
42"	7"	4"	6"	2"	1.3	41 1/2"	5"	2900
48"	7"	4"	6"	2"	1.3	48 1/2"	5"	3300
54"	7"	4"	6"	2"	1.3	55 1/2"	5"	3700
60"	7"	4"	6"	2"	1.3	62 1/2"	5"	4100
66"	7"	4"	6"	2"	1.3	69 1/2"	5"	4500
72"	7"	4"	6"	2"	1.3	76 1/2"	5"	4900
78"	7"	4"	6"	2"	1.3	83 1/2"	5"	5300
84"	7"	4"	6"	2"	1.3	90 1/2"	5"	5700
90"	7"	4"	6"	2"	1.3	97 1/2"	5"	6100

GENERAL NOTES:
 CONCRETE IN THESE END SECTIONS SHALL BE THE SAME GRADE AND STRENGTH AS SPECIFIED FOR REINFORCED CONCRETE PIPE, A.S.T.M. DESIGNATION C-76 (AS SET OUT IN STANDARD SPECIFICATIONS).
 REINFORCEMENT IN THE "C" PORTION SHALL BE THE SAME AS SPECIFIED FOR REINFORCED CONCRETE. REINFORCEMENT IN THE "B" PORTION SHALL HAVE A CROSS SECTIONAL AREA EQUAL TO THAT OF ONE LAYER OF STEEL IN THE "C" PORTION. THE END OF THE PIPE CULVERT SHALL BE PLACED IN THE CONCRETE END SECTION SO THAT THE FLOW LINES ARE FLUSHED. THE JOINT SHALL BE COMPLETELY FILLED WITH MORTAR. VARIATIONS IN DIMENSIONS - THE THICKNESS OF THE CONCRETE, THE POSITION OF STEEL, AND THE INTERNAL DIAMETER OF THE PIPE SHALL CONFORM WITH THE VARIATIONS IN DIMENSIONS AS PROVIDED IN THE SPECIFICATIONS FOR REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, A.S.T.M. DESIGNATION C-76. WHERE VITRIFIED CLAY CULVERT OR CAST IRON CULVERT PIPE IS USED, A "PIPE END SECTION" COMPARABLE TO THAT AS SHOWN FOR METAL OR CONCRETE SHALL BE FURNISHED AND SHALL BE AS APPROVED BY THE ENGINEER, EXCEPT IN AREAS OF ACID OR MINE WATER THEN THE USE OF METAL END SECTION IS PROHIBITED. END SECTIONS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR EACH "PIPE END SECTION" COMPLETED IN PLACE AND ACCEPTED. CONCRETE PIPE TOE ANCHORS SHALL BE REQUIRED ON ALL CONCRETE PIPE END SECTIONS. THE COST THEREOF SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER EACH "PIPE END SECTION."

NOTE: METAL PIPE END SECTIONS MAY BE USED WITH CONCRETE PIPE, WHERE PERMITTED BY LOCAL CODES, PROVIDING THE METHOD OF CONNECTION IS APPROVED BY THE ENGINEER PRIOR TO INSTALLATION OF PIPE. METAL PIPE END SECTIONS OR HOPE PIPE END SECTIONS (IF AVAILABLE) SHALL BE USED FOR PLASTIC PIPE. END SECTIONS SHALL BE ATTACHED SECURELY TO THE PIPE USING THE MANUFACTURER RECOMMENDATIONS OF THE PIPE AND END SECTION.

AS-BUILT

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 Entry Date: 2014
 Entered By: SLM

NYLOPLAST DRAIN BASIN

INTEGRATED DUCTILE IRON FRAME & GRATE TO MATCH BASIN O.D.
 12" MIN (FOR AASHTO H-25)
 INVERT ACCORDING TO PLANS 1/8" OFF
 ADAPTER ANGLES VARIABLE 9" - 30" ACCORDING TO PLANS
 AASHTO H-25 CONCRETE SLAB 8" MIN THICKNESS
 VARIABLE SUMP DEPTH ACCORDING TO PLANS (8" MIN ON 8" - 24", 10" MIN ON 30")
 4" MIN ON 8" - 24", 6" MIN ON 30"
 BACKFILL MATERIAL BELOW AND TO SIDE OF STRUCTURE SHALL BE ASTM D2321 CLASS 1 OR II CRUSHED STONE OR GRAVEL AND BE PLACED UNIFORMLY IN 12" LIFTS AND COMPACTED TO A MIN OF 90%
 VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE: 4" - 30" FOR CORRUGATED HOPE (AASHTO H-25, ADS SINGLE WALL, HANCOCK DUAL WALL, SDR 35, SCH 40 DWV, CORRUGATED & RIBBED PVC)
 WATERTIGHT JOINT (CORRUGATED HOPE SHOWN)

A	PART #	GRATE OPTIONS	A	PART #	GRATE OPTIONS
8"	2858AG	RECYCLED PLANT GRATE	18"	2858AG	RECYCLED PLANT GRATE
12"	2858AG	RECYCLED PLANT GRATE	24"	2858AG	RECYCLED PLANT GRATE
15"	2858AG	RECYCLED PLANT GRATE	30"	2858AG	RECYCLED PLANT GRATE

DRAWN BY: EBC
 DATE: 1-23-06

APPROVED BY: CJA
 DATE: 1-23-06

DWG SIZE: A SCALE: NTS SHEET: 1 OF 1

3130 VERONA AVE
 BUFORD, GA 30518
 PUN (770) 932-2443
 WWW.NYLOPLAST.COM

Nyloplast

TITLE: DRAIN BASIN WITH STANDARD GRATE
 QUICK SPEC INSTALLATION DETAIL

DWG NO.: 7001-116-144 REV: A

Section 2721 Engineered Surface Drainage Products

GENERAL
 PVC surface drainage inlets shall include the drain basin type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc. or prior approved equal.

MATERIALS
 The drain basins required for this contract shall be manufactured from PVC pipe stock, utilizing a thermo-molding process to reform the pipe stock to the specified configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F477. The pipe bell spigot shall be joined to the main body of the drain basin or catch basin. The raw material used to manufacture the pipe stock that is used to manufacture the main body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

The grates and frames furnished for all surface drainage inlets shall be ductile iron for sizes 8", 10", 12", 15", 18", 24" and 30" and shall be made specifically for each basin so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for drain basins shall be capable of supporting H-20 wheel loading for traffic areas or H-10 loading for pedestrian areas. 12" and 15" square grates will be hinged to the frame using pins. Metal used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05 for ductile iron. Grates shall be provided painted black.

INSTALLATION
 The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 2 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For H-20 load rated installations, a concrete ring will be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.

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DRAWN BY: CJA
 DATE: 3-18-08

REVIEWED BY: EBC
 DATE: 2-9-10

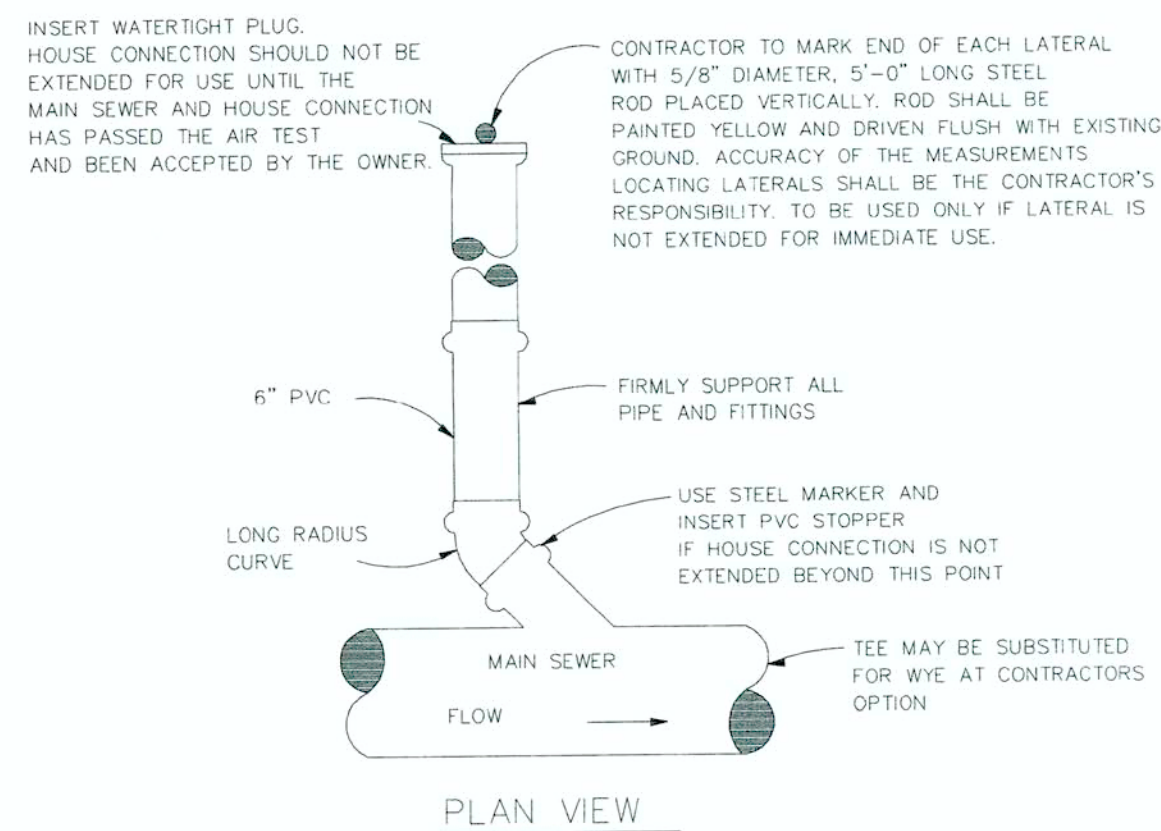
DWG SIZE: A SCALE: 1:1 SHEET: 1 OF 1

3130 VERONA AVE
 BUFORD, GA 30518
 PUN (770) 932-2443
 FAX (770) 932-2499
 WWW.NYLOPLAST.COM

Nyloplast

TITLE: 8" - 30" IN DRAIN BASIN SPECIFICATIONS

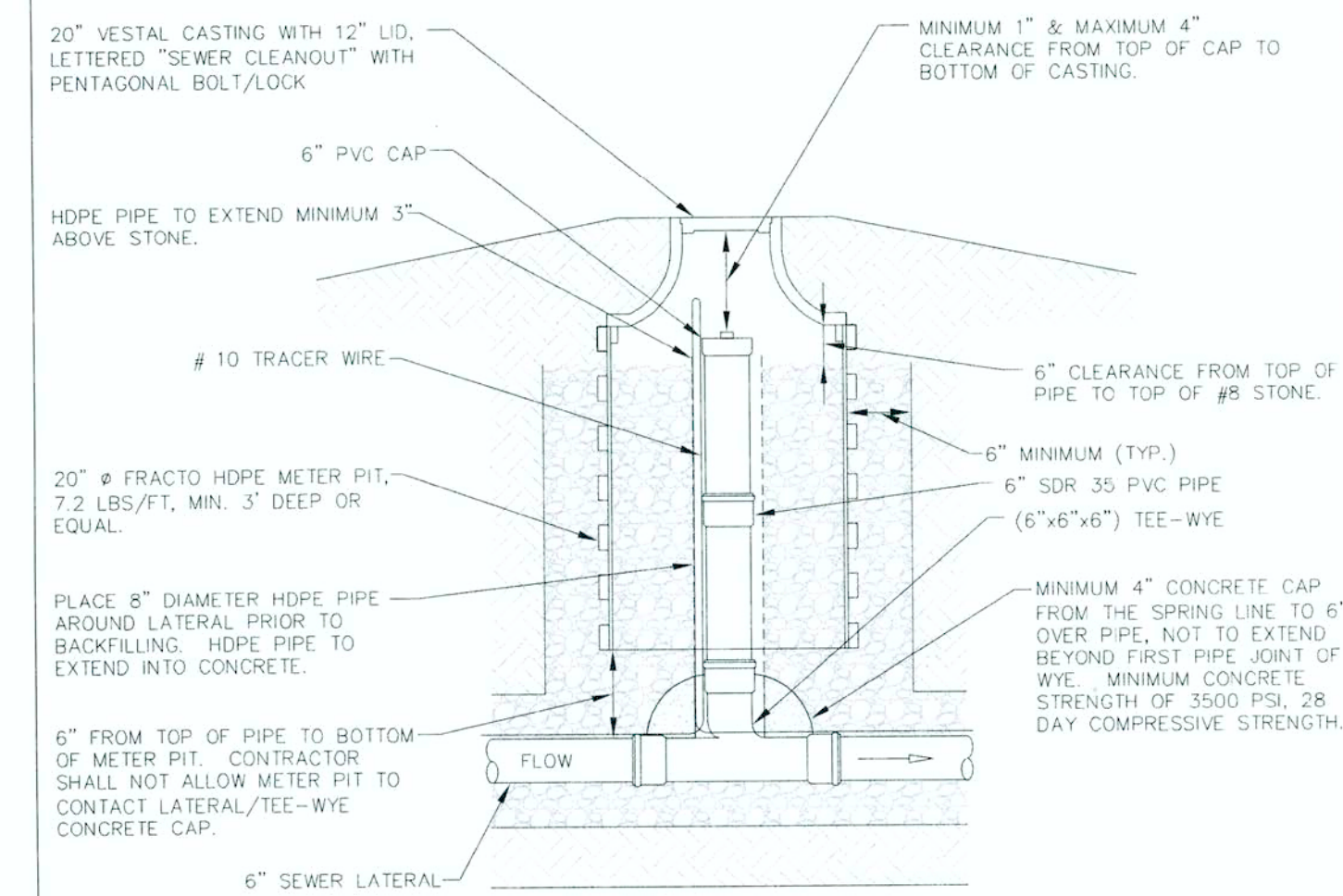
DWG NO.: 7001-116-011 REV: F



- NOTES:**
1. WYE BRANCHES OR TEES SHALL BE INSTALLED WHERE DESIRED BY PROPERTY OWNER OR WHERE INDICATED ON THE DRAWINGS. THEY SHALL BE EXTENDED TO PROPERTY LINE OF STREETS OR ALLEYS OR TO DISTANCES AS SHOWN ON THE DESIGN DRAWINGS AND SHALL BE OF 6" PVC SDR 35 UNLESS OTHERWISE SHOWN.
 2. DEPTH AT PROPERTY LINE SHALL BE APPROXIMATELY 8'-0" UNLESS SEWER DEPTH IS LESS, IN WHICH EVENT A MINIMUM SLOPE OF 1/8" PER 1'-0" SHALL BE USED.
 3. HOUSE SERVICE PIPE SHALL BE PVC SDR 35 CONFORMING TO ASTM D3034 WITH GASKETED JOINTS CONFORMING TO ASTM D3212 UNLESS OTHERWISE INDICATED.
 4. HOUSE SERVICE PIPE SHALL BE INSTALLED PER SAME SPECIFICATIONS & DETAIL AS FOR MAIN LINE SEWER.

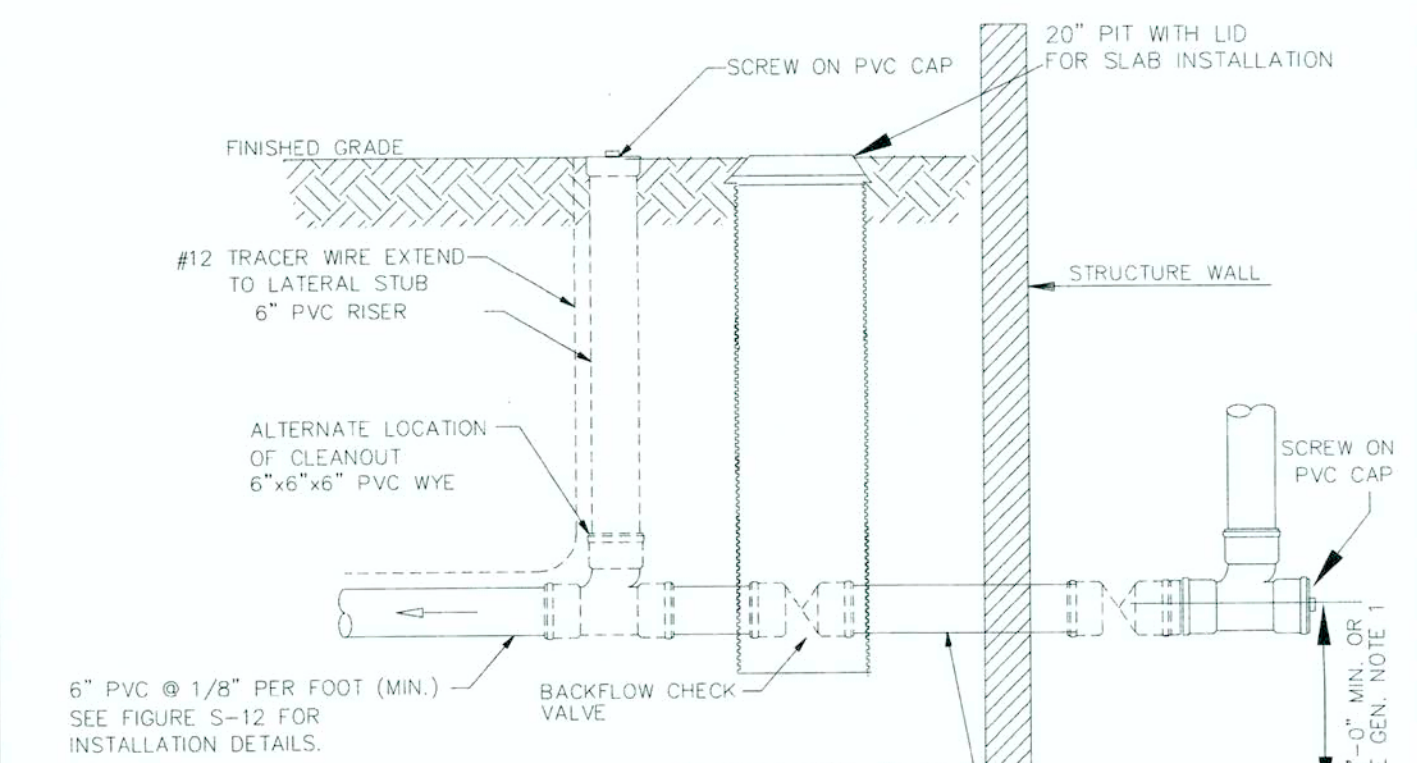
HOUSE/BUILDING SERVICE CONNECTION DETAIL 1

Westfield PUBLIC WORKS logo, Registered Professional Engineer seal for Benia Lynn Neff, No. 10403860, State of Indiana, dated 10/9/06. FIGURE S-10



TYPE 2 CLEAN-OUT DETAIL

Westfield PUBLIC WORKS logo, Registered Professional Engineer seal for Benia Lynn Neff, No. 10403860, State of Indiana, dated 10/9/06. FIGURE S-15

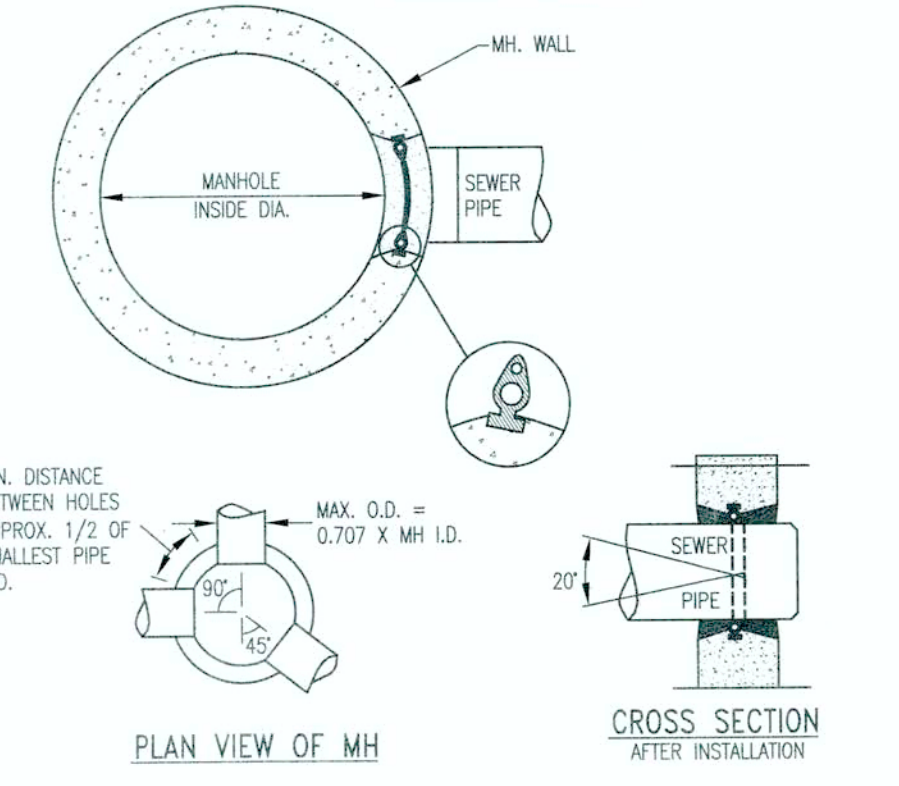


HOUSE/BUILDING SERVICE CLEAN-OUT DETAIL

Westfield PUBLIC WORKS logo, Registered Professional Engineer seal for Benia Lynn Neff, No. 10403860, State of Indiana, dated 10/9/06. FIGURE S-13

- CORE DRILLING REQUIREMENTS**
1. All core drilling operations shall be approved by the City of Westfield prior to any activities commencing. Contractor shall notify the Town Street & Stormwater Department at least 48 hours prior to start of any core drilling related activities.
 2. An up to date certificate of insurance shall be provided to the Town prior to the start of work.
 3. Prior to the start of work, the existing manhole structure shall be checked for level.
 4. The manhole shall be continuously and properly supported during the excavation and core drilling processes.
 5. No core drilling, cutting or drilling is permitted within six inches of a barrel joint.
 6. All holes shall be smoothly and cleanly drilled with a core-drill. The size of the hole shall be no larger than the outside diameter of the pipe to be connected plus 8 inches. The hole shall be wiped clean after completion of the coring.
 7. The existing manhole shall have new benchwalls and flow channels established as would be required for new construction.
 8. Contractor shall follow all other installation requirements for the installation of storm sewers and structures as set forth by the Town Specifications or provided herein unless otherwise stated.

MAX. PIPE SIZE O.D.		
M.H. DIA.	FROM STRAIGHT TUBE TO	IF 90° DEF.
4 FT.	45" DEF.	25 IN.
5 FT.	42 IN.	24 IN.
6 FT.	51 IN.	24 IN.
7 FT.	59 IN.	44 IN.
8 FT.	73 1/2 IN.	50 IN.

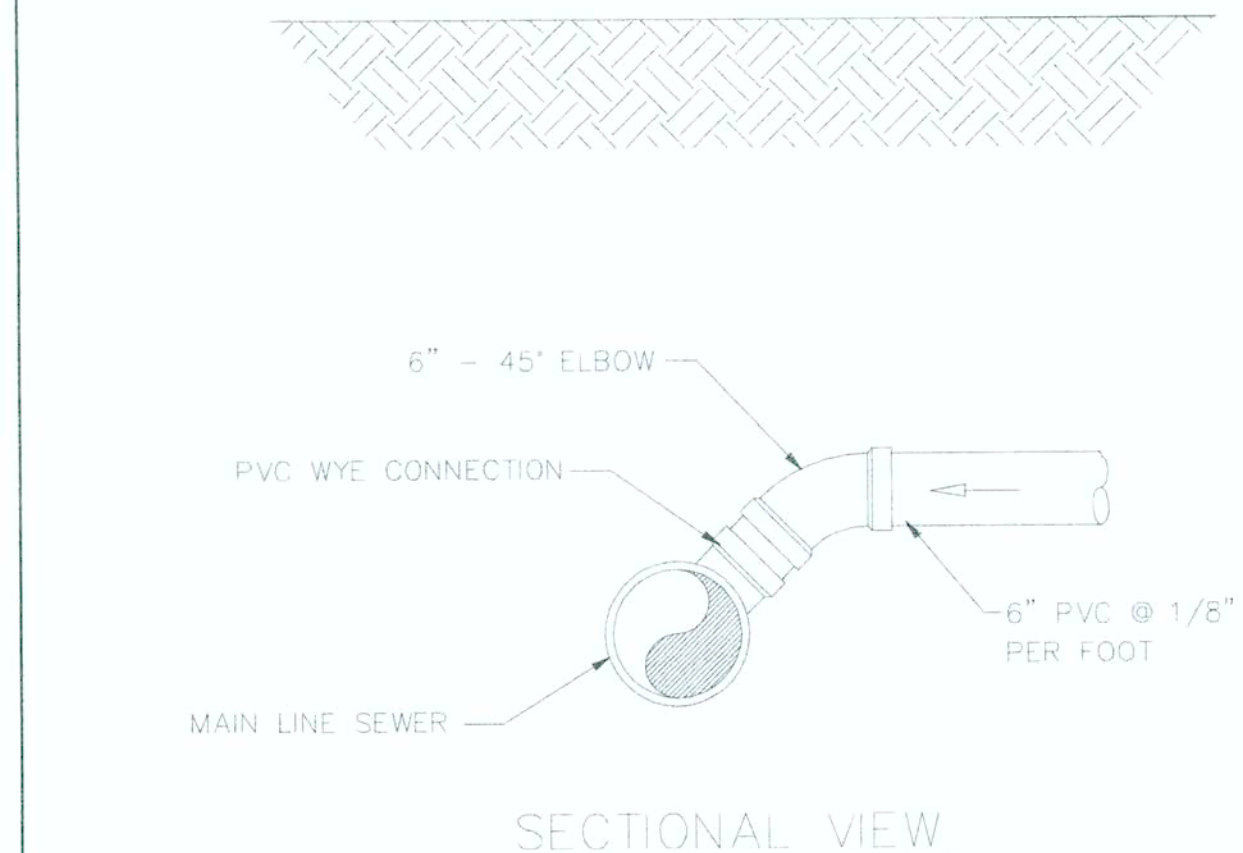


FLEXIBLE PIPE CONNECTOR NOT TO SCALE

Professional Engineer seal for Nicholas M. Scambrone, No. 10403860, State of Indiana, dated 05-23-13.

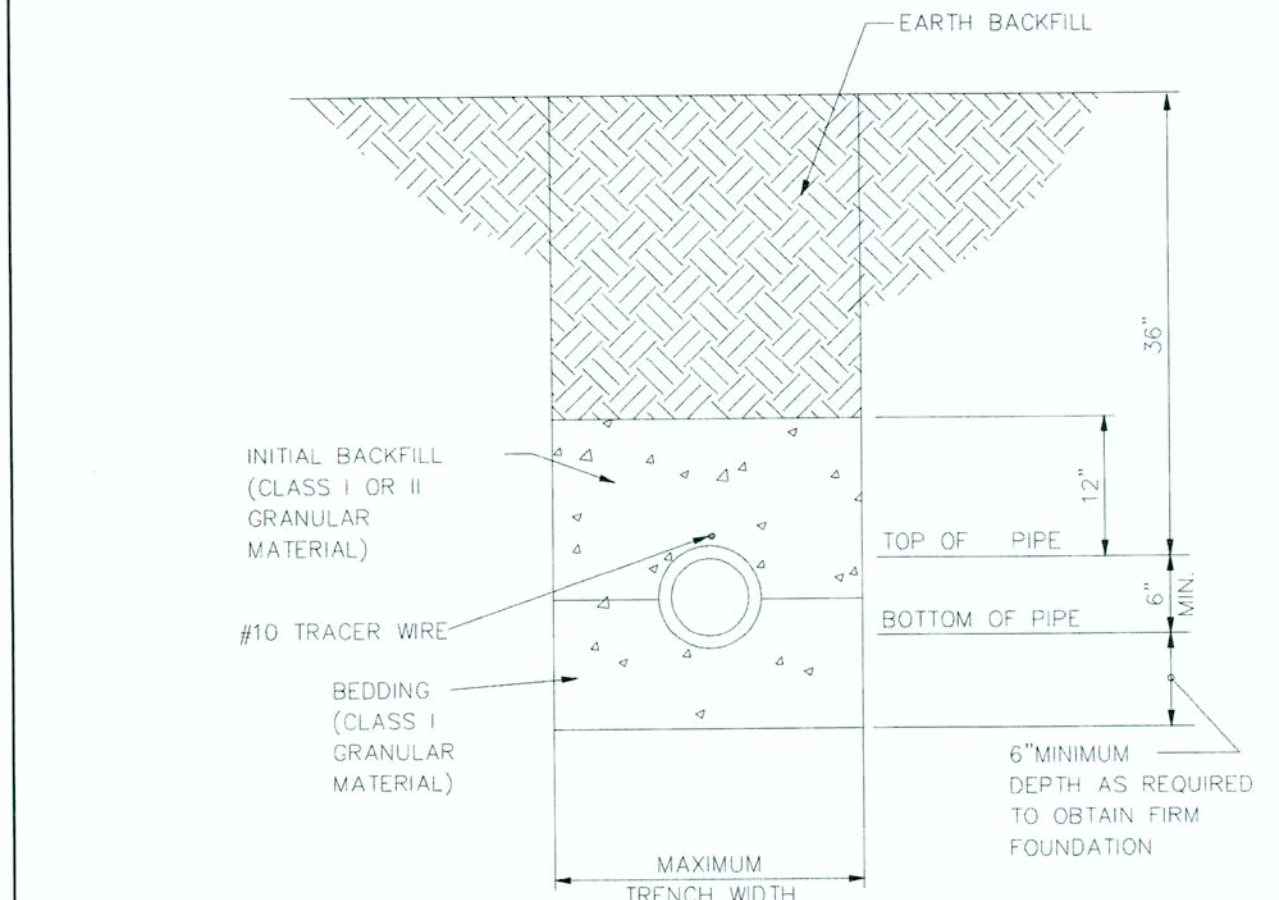
AS-BUILT

Hamilton County Geographic Information System (GIS) logo. 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: 2016. Entered By: SLM.



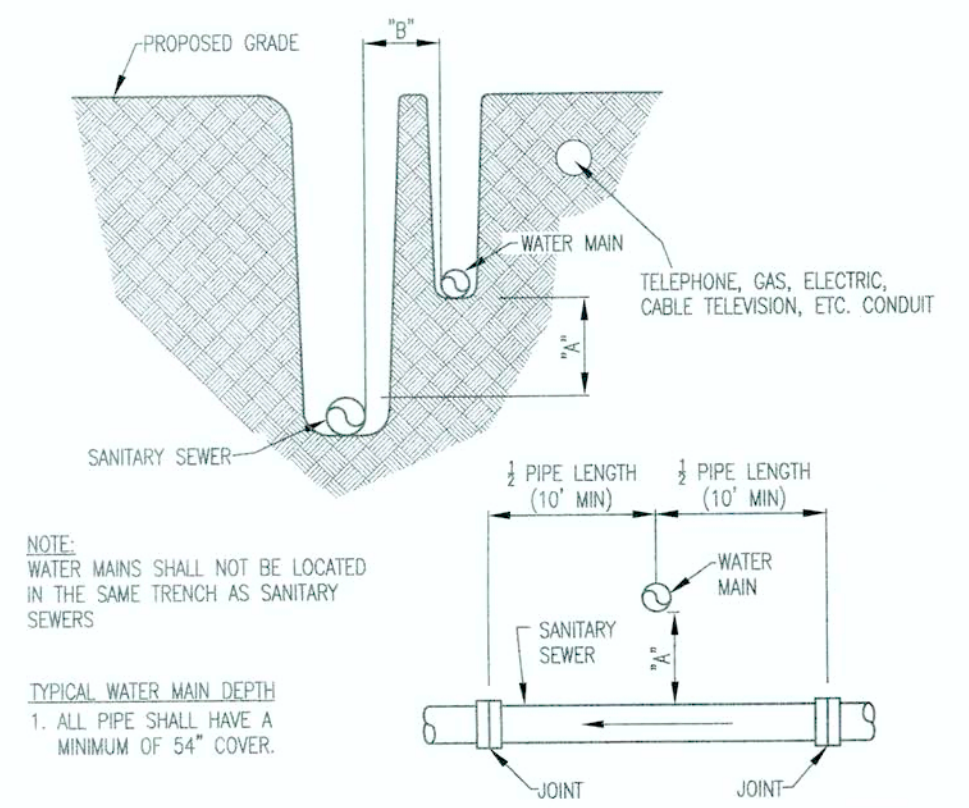
HOUSE/BUILDING SERVICE CONNECTION DETAIL 2

Westfield PUBLIC WORKS logo, Registered Professional Engineer seal for Benia Lynn Neff, No. 10403860, State of Indiana, dated 10/9/06. FIGURE S-11



HOUSE/BUILDING SERVICE BEDDING DETAILS

Westfield PUBLIC WORKS logo, Registered Professional Engineer seal for Benia Lynn Neff, No. 10403860, State of Indiana, dated 10/9/06. FIGURE S-12



WATER AND SEWER CROSSING DETAIL NOT TO SCALE

IF "A" IS	IF "B" IS	THEN SANITARY SEWER PIPE SEGMENT SHALL BE
18 IN. OR MORE	10 FT. OR MORE	NO SPECIAL MATERIAL OR GRADE REQUIREMENTS
LESS THAN 18 IN.	LESS THAN 10 FT	CONSTRUCTED OF WATER WORKS GRADE DUCTILE IRON PIPE, MECHANICAL JOINTS AND FITTINGS - SEE SANITARY SPECIFICATIONS FOR ADDITIONAL INFORMATION

NOTE: DIMENSIONS ARE TAKEN FROM THE OUTER DIAMETER WALL OF THE PIPES

CONSTRUCTION PLANS FOR WEAS ENGINEERING. SEC. 1, TWP. 18N, RANGE 3E. CUSTOM COMMERCE PARK, OAKRIDGE ROAD, WESTFIELD, IN 46074. HADAH II, LLC. 4848 DEER RIDGE DR. NORTH, CARMEL, IN 46077. SANITARY DETAILS

PLAN DATE: 5/02/2013. DESIGN: NMS, CHECK: NMS, DRAWN: MAM. PROJECT NO.: 130020. SHEET NO.: C806

BLN logo. Beam, Longest and Neff, LLC. Consulting Engineers, Land Surveyors, & Landscape Architects. 8126 Cautleton Road, Indianapolis, IN 46250. Phone: 317.841.8532. www.B-L-N.com