



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

November 2, 2012

To: Hamilton County Drainage Board

Re: Long Branch Regulated Drain, J.W. Brendle Arm – VOWC 10010-C Reconstruction

Attached is a petition and plans for the proposed relocation and reconstruction of the Long Branch Drain, J.W. Brendle Arm. The reconstruction is being proposed by Wendy Fortune/Pulte Homes of Indiana, LLC. The proposal is to reconstruct the drain from Str. 604 to Str. 605 for the JW Brendle – Brenwick Relocation to allow for stormwater detention of Village of West Clay Section 10010-C.

The relocated drain shall consist of those lengths of pipes between the following structures and open ditch as shown on sheets C201 of the plans by Stoepelwerth & Associates, Inc., dated July 20, 2012, having last revision date of September 26, 2012, and having job number 5596PUL:

Structure 604 of the JW Brendle – Brenwick Relocation will be removed and a new end section structure will be placed at that location. The drain will then continue as open ditch through Lake #1 in the Village of West Clay Section 10010-C subdivision, to Str. 433. From Str. 433, the drain will be 30" RCP, connecting back to Str. 603 of the JW. Brendle – Brenwick Relocation, which is labeled Str. EX. 2 in the Village of West Clay 10010-C plans.

The drain in total will consist of the following lengths:

30" RCP – 76 ft.

Open Ditch – 248 ft.

The total length of new tile shall be 324 feet. The original 324 feet of tile from Str. 604 (Str. 432) to Str. 605 (Str. EX. 2) shall be vacated. This proposal will not change the total length of the drain.

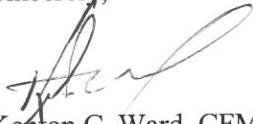
The cost of the relocation and reconstruction is to be paid by Pulte Homes of Indiana, LLC.

The drain is being reconstructed across tracts 17-09-29-00-00-012.000, owned by Pulte Homes of Indiana, LLC, and 17-09-29-00-00-012.301, owned by Mark G. and Rebecca A. Herbison. The drain is being relocated and reconstructed in the same place, so no additional easement will be required from these tracts.

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.

I recommend the Board set a hearing for this proposed drain for December 10, 2012.

Sincerely,



Kenton C. Ward, CFM
Hamilton County Surveyor

KCW/pll

**Village of West Clay 10010-C
GASB 34 Calculation**

Village of West Clay Drain- VOWC 10010C: 4773 ft

JW Brendle Drain-Relocation: 324 ft

Total Footage = 5097

Engineer's Estimate = \$148,564.50

JW Brendle Drain-Relocation: .06 (\$148,564.50) = \$8,913.87

Village of West Clay Drain- VOWC 10010C: .94 (\$148,564.50) = \$139,650.63

Note: Bonds were posted at 120% of the engineers estimate. This dollar amount is based upon the engineer's estimate.

HAMILTON COUNTY DRAINAGE BOARD
NOBLESVILLE, INDIANA

IN RE: Long Branch Drain - J.W. Brendle Arm)
Hamilton County, Indiana)

FILED

NOV 13 2012

OFFICE OF HAMILTON COUNTY SURVEYOR

PETITION FOR RELOCATION AND RECONSTRUCTION

Pulte Homes of Indiana, LLC (hereinafter "Petitioner"),

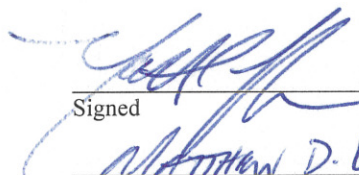
hereby petitions the Hamilton County Drainage Board for authority to relocate and improve a section of the Long Branch - J.W. Brendle Arm Drain, and in support of said petition advises the Board that:

1. Petitioner owns real estate through which a portion of the Long Branch - J.W. Brendle Drain runs.
2. Petitioner plans to develop its real estate with roads, buildings, utilities, storm drains, sanitary sewers and other structures.
3. Petitioner's proposed development of its real estate will require relocation and reconstruction of a portion of the Long Branch - J.W. Brendle Drain, as specifically shown on engineering plans and specifications filed with the Hamilton County Surveyor.
4. The work necessary for the proposed relocation and reconstruction will be undertaken at the sole expense of the Petitioner and such work will result in substantial improvement to the Long Branch - J.W. Brendle Drain, without cost to other property owners on the watershed of the Long Branch - J.W. Brendle Drain.

WHEREFORE, Petitioner requests that an Order issued from the Hamilton County Drainage Board authorizing relocation and reconstruction of the Long Branch - J.W. Brendle Drain, in conformance with applicable law and plans and specifications on file with the Hamilton County Surveyor.

Signed

Printed


Matthew D. Lohmeyer
DIRECTOR OF LAND DEV.
PULTE HOMES OF INDIANA, LLC

FINDINGS AND ORDER

CONCERNING THE PARTIAL VACATION OF THE

**Long Branch Drain, J. W. Brendel Arm,
Village of West Clay Section 10010-C Reconstruction**

Structure 604 (Str. 432) to Structure 605 (Str. EX. 2)


On this **10th day of December, 2012**, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the **Long Branch Drain, J. W. Brendel Arm, Village of West Clay Section 10010-C Reconstruction**.

Evidence has been heard. Objections were presented and considered. The Board then adopted an order of action. The Board now finds that the costs of continued maintenance to the portion of the above drain exceed the benefits to the real estate benefited by the portion of the drain to be abandoned and issues this order vacating the above section of the **Long Branch Drain, J. W. Brendel Arm, Village of West Clay Section 10010-C Reconstruction**.

HAMILTON COUNTY DRAINAGE BOARD



Vice President



Member

Member

Attest:



STATE OF INDIANA)
) ss:
COUNTY OF HAMILTON)

BEFORE THE HAMILTON COUNTY
DRAINAGE BOARD
NOBLESVILLE, INDIANA

IN THE MATTER OF THE
RECONSTRUCTION OF THE
**Long Branch Drain, J. W. Brendel Arm, Village of West Clay Section
10010-C Reconstruction**

FINDINGS AND ORDER FOR RECONSTRUCTION

The matter of the proposed Reconstruction of the **Long Branch Drain, J. W. Brendel Arm, Village of West Clay Section 10010-C Reconstruction** came before the Hamilton County Drainage Board for hearing **on December 10, 2012**, 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 **Long Branch Drain, J. W. Brendel Arm, Village of West Clay Section 10010-C Reconstruction** 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

Uma

PRESIDENT

Don A. Bell

Member

Member

ATTEST:

Loretta Mastbaum

Executive Secretary

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF

**Long Branch Drain, J. W. Brendel Arm
Village of West Clay Section 10010-C Reconstruction**

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 **Long Branch Drain, J. W. Brendel Arm, Village of West Clay Section 10010-C Reconstruction** on **December 10, 2012 at 12:05 P.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 **Long Branch Drain, J. W. Brendel Arm,
Village of West Clay Section 10010-C Reconstruction**

NOTICE

Notice is hereby given that the Hamilton County Drainage Board at its regular meeting **December 10, 2012** 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.

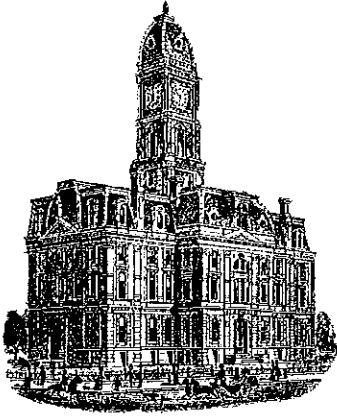
The Board issued an order declaring the proposed improvement established. Such findings and order were marked filed and are available for inspection in the Office of the Hamilton County Surveyor.

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
 VICE 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

August 20, 2013

Re: Long Branch Drain: JW Brendle – Village of West Clay 10010C Reconstruction

Attached are as-builts, certificate of completion & compliance, and other information for JW Brendle-Village of West Clay 10010C Reconstruction. 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 November 2, 2012. The report was approved by the Board at the hearing held December 10, 2012. (See Drainage Board Minutes Book 14, Pages 438-440) The changes are as follows:

The 30" RCP was shortened from 76 feet to 70 feet. The open ditch was lengthened from 248 to 258 feet. The length of the drain due to the changes described above is now **328 feet**.

The non-enforcement was approved by the Board at its meeting on December 10, 2012 and recorded under instrument #2013004080.

The following sureties were guaranteed by Liberty Mutual and released by the Board on its September 9, 2013 meeting.

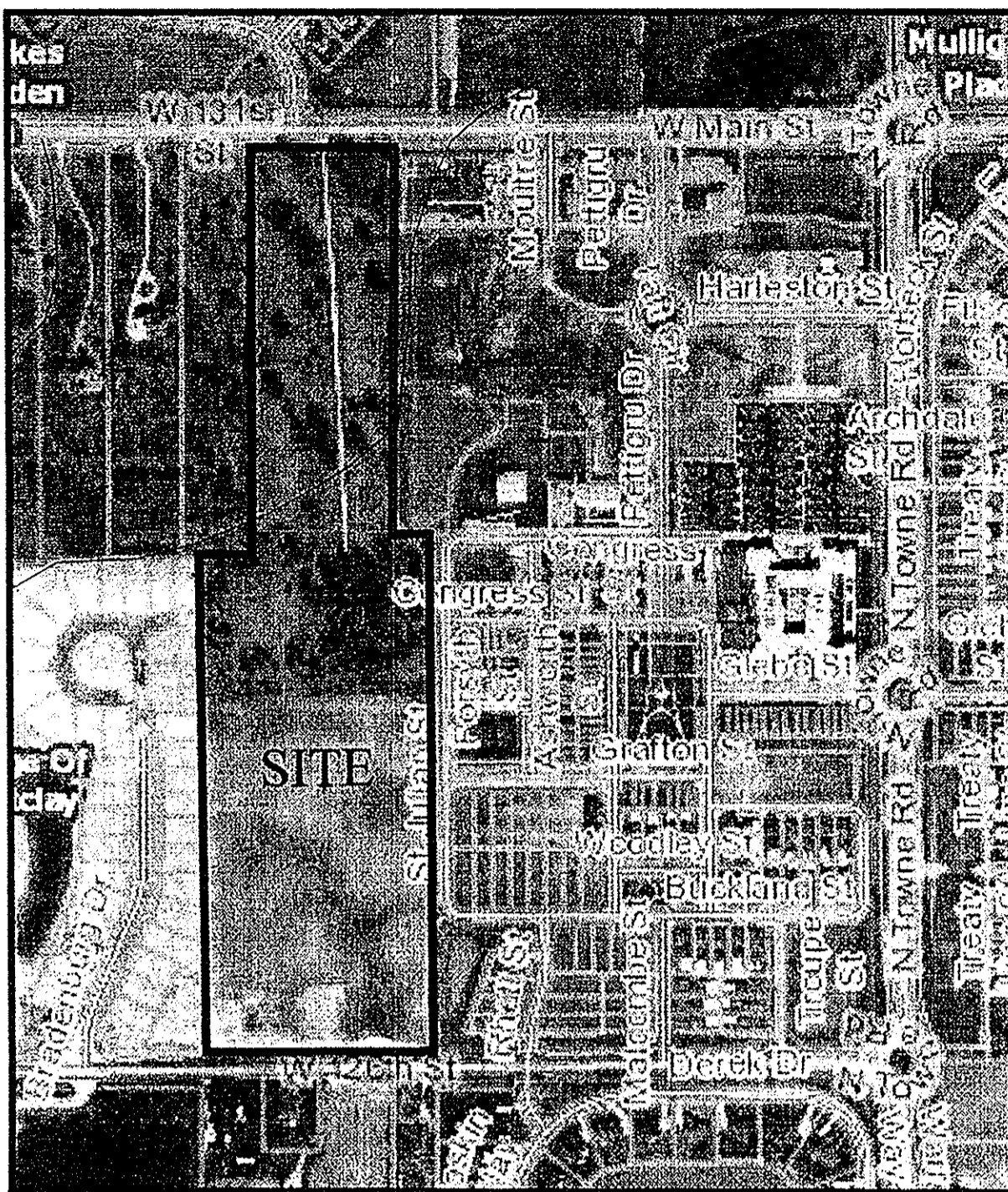
Bond-LC No: 268002855
Insured For: Storm Sewers
Amount: \$198,977
Issue Date: September 19, 2012

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

Sincerely,

Kenton C. Ward, CFM
Hamilton County Surveyor

KCW/slm

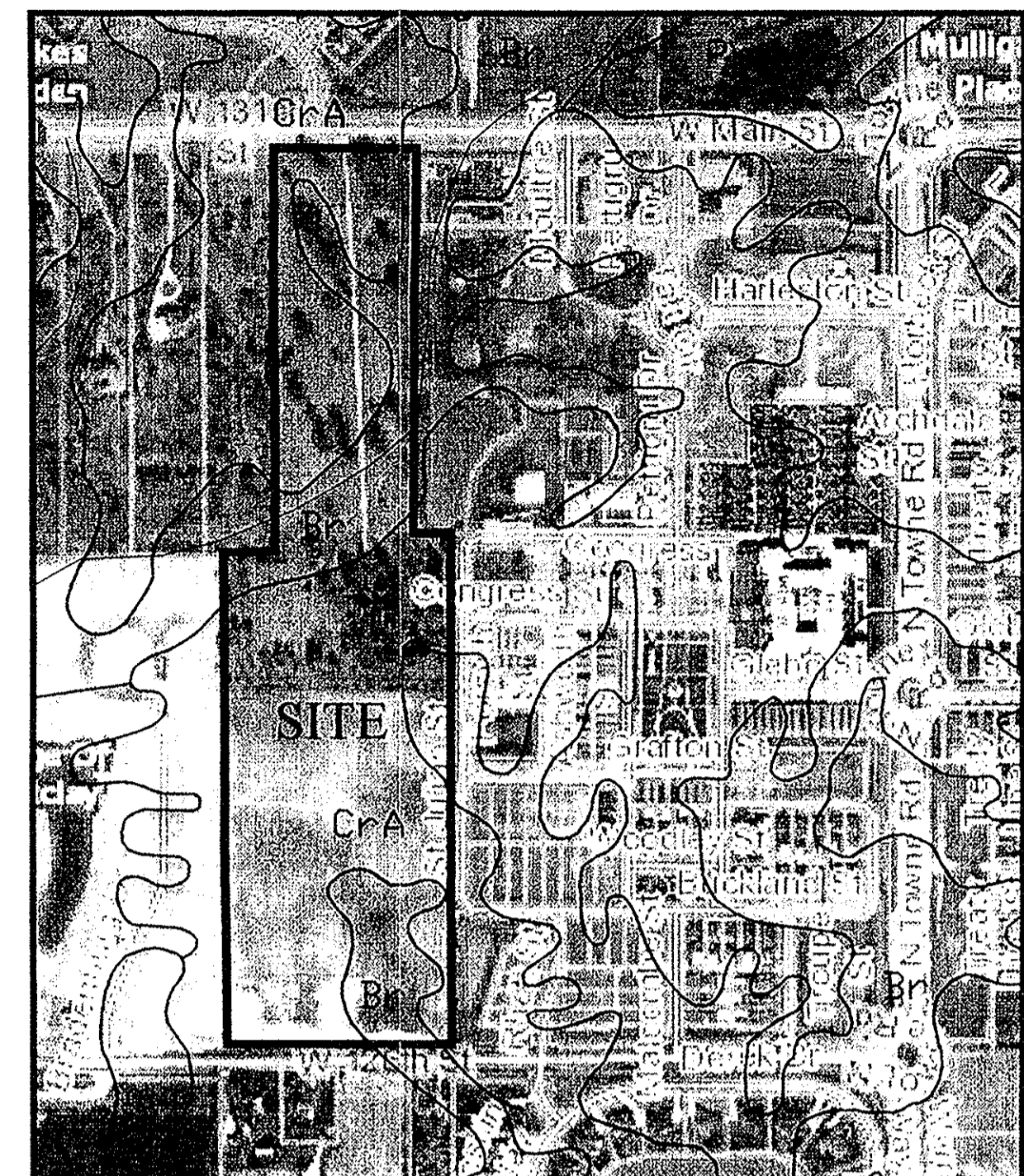


VICINITY MAP
NOT TO SCALE

VILLAGE OF WEST CLAY, SECTION 10010-C

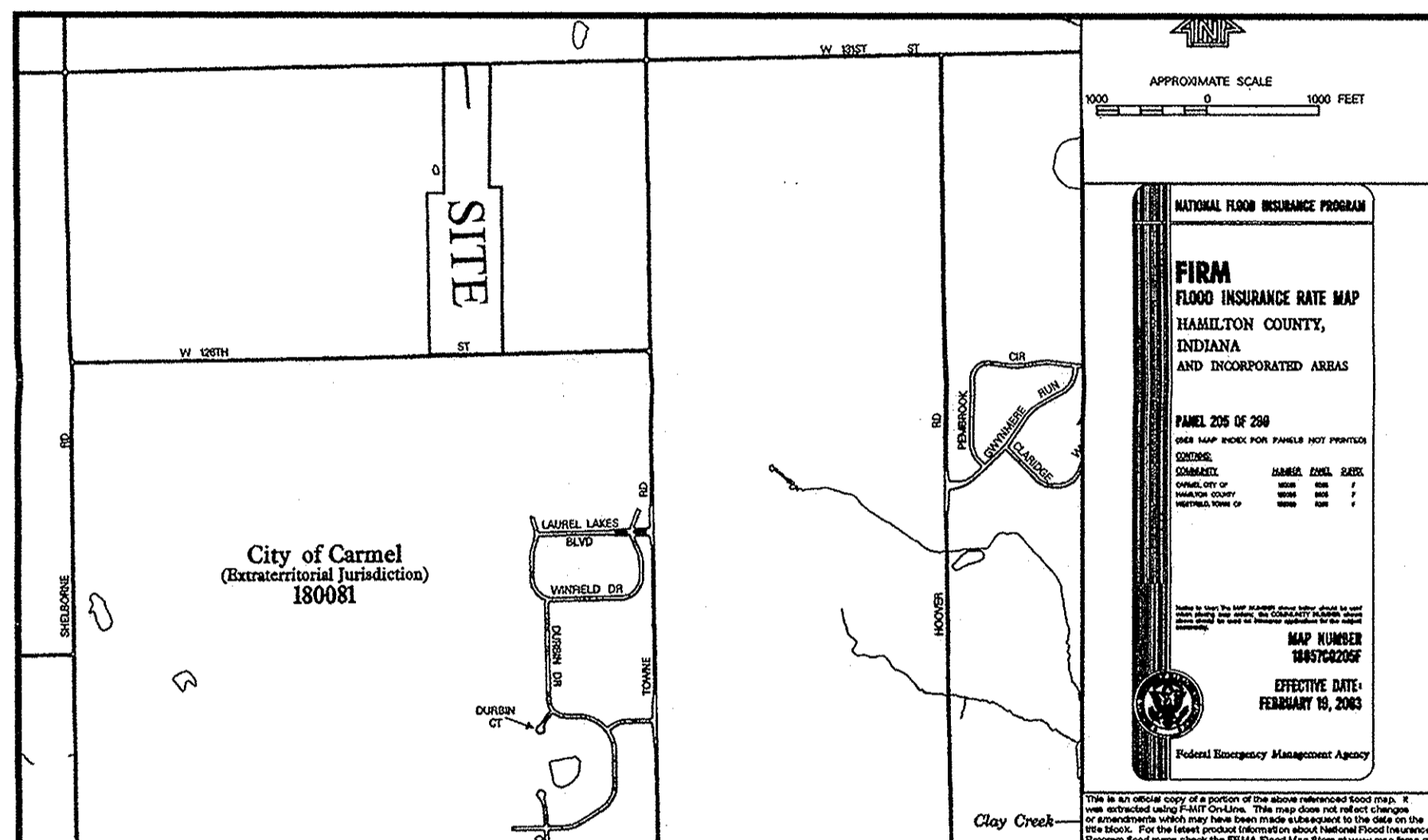
Developed by:
PULTE HOMES OF INDIANA, LLC.
11590 NORTH MERIDIAN STREET,
SUITE 530
CARMEL, INDIANA 46032
PHONE: (317) 575-2350
CONTACT PERSON: MATT LOHMEYER

OWNER:
WENDY M. FORTUNE
13025 EAST 300 SOUTH
ZIONSVILLE, INDIANA 46077
PHONE: (317) 506-5422
EMAIL: tneal@kdlegal.com



SOILS MAP
NOT TO SCALE

RECORD DRAWING

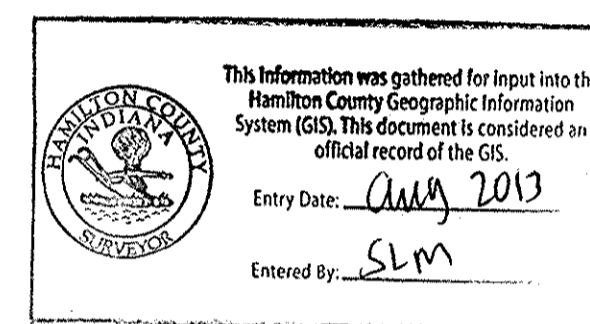


FEMA MAP
NOT TO SCALE

D. D. O.
 Dennis D. Olmstead
 Registered Land Surveyor
 No. 900012



OPERATOR ON N.O.I. LETTER:
PULTE HOMES OF INDIANA, LLC.
11590 NORTH MERIDIAN STREET, SUITE 530
CARMEL, INDIANA 46032
PHONE: (317) 575-2350
CONTACT PERSON: MATT LOHMEYER



UTILITY CONTACTS:

Clay Township Regional Waste District
 10701 College Avenue
 Indianapolis, Indiana 46280

Carmel Water Utilities
 3450 West 131st Street
 Westfield, IN 46074

AT & T
 5858 North College Avenue
 Indianapolis, Indiana 46220

BrightHouse Networks
 3030 Roosevelt Avenue
 Indianapolis, Indiana 46218

Duke Energy
 16475 Southpark Drive
 Westfield, Indiana 46074

Indianapolis Power & Light Company
 3600 North Arlington Avenue
 Indianapolis, Indiana 46218

Vectren Energy
 16000 Allisonville Road
 Noblesville, Indiana 46060

Map Unit: Bs - Brookston silt clay loam, 0 to 2 percent slopes

Brookston silty clay loam (0 to 2 percent slopes) (Bs)--Some of this soil is in large tracts within which are irregularly shaped islandlike areas of lighter colored soils, and some of it is in drainageways and small depressions surrounded by lighter colored soils. This soil has the profile described as representative of the series.

The content of organic matter is high in this soil. Wetness is the main limitation that affects use and management.

If this Brookston soil is adequately drained, it is suited to all crops commonly grown in the county. Under proper management it can be used intensively for row crops. Its limitations for uses associated with residential development are severe. Capability unit II-1: tree and shrub suitability group 1.

Map Unit: CrA - Crosby silt loam, 0 to 2 percent slopes

CrA--Crosby silt loam, 0 to 2 percent slopes
 This is a somewhat poorly drained soil and has a seasonal high water table at 0.5 to 2.0 ft. and is on rises on uplands. Slopes are 0 to 2 percent. The native vegetation is hardwoods. The surface layer is silt loam and has moderately low or moderate organic matter content (1.0 to 3.0 percent). Permeability is very slow (< 0.06 in/hr) in the most restrictive layer above 60 inches. Available water capacity is moderate (6.2 inches in the upper 60 inches). The pH of the surface layer in non-limed areas is 5.1 to 6.0. Droughtiness and wetness are management concerns for crop production. This soil responds well to tile drainage.

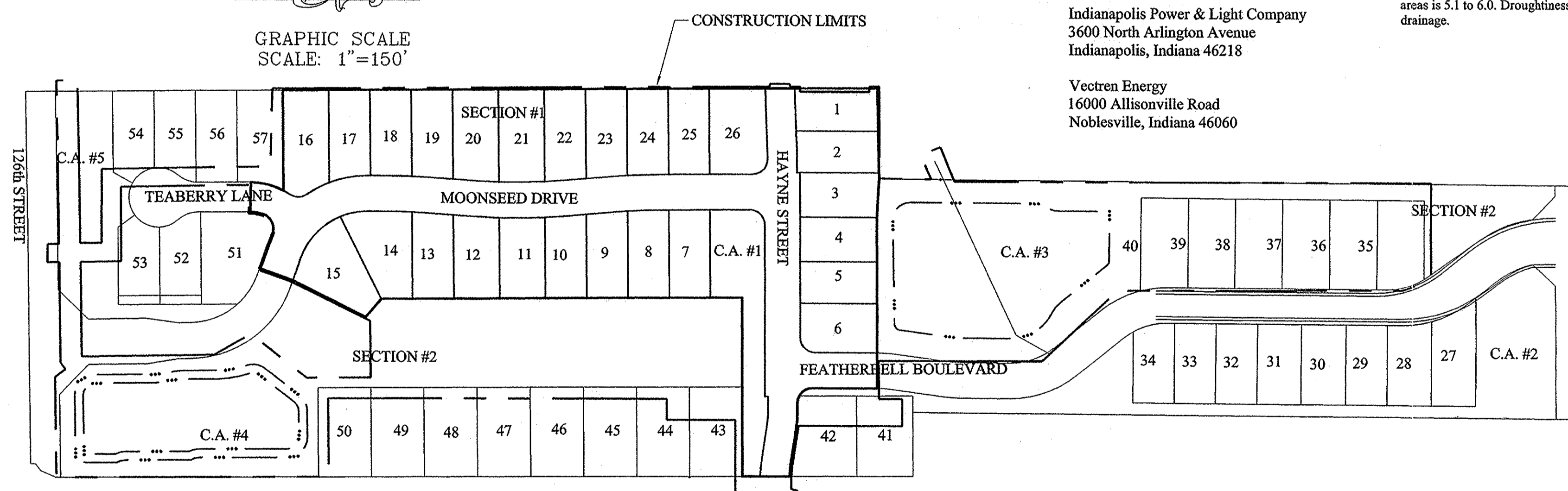
DESIGN DATA

DESIGN SPEED = 25 M.P.H.

HAYNE STREET	684.39 L.F.
MOONSEED DRIVE	948.28 L.F.
TEABERRY LANE	80.34 L.F.
FEATHERBELL BOULEVARD	160.00 L.F.
TOTAL	1,873.01 L.F.

OPERATING AUTHORITY
 CITY OF CARMEL (317) 571-2441
 ONE CIVIC SQUARE
 CARMEL, INDIANA 46032

FLOOD STATEMENT
 NO PORTION OF THIS SITE LIES WITHIN FLOODPLAIN PER
 FIRM 18057C0205F DATED FEB. 19, 2003



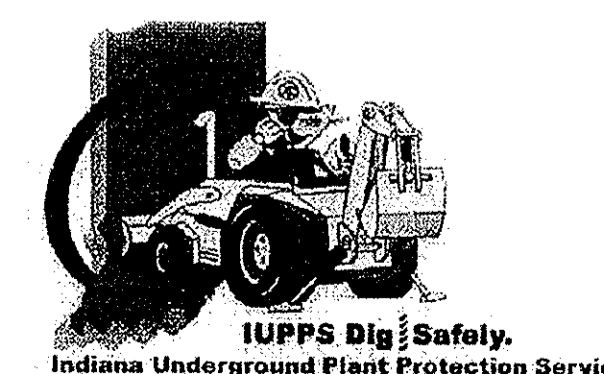
SECTION 1

Part of the Southeast Quarter of Section 29, Township 18 North, Range 3 East in Clay Township, Hamilton County, Indiana, described as follows:

Commencing at the Southeast Corner of said Quarter Section; thence North 89 degrees 14 minutes 56 seconds East along the South line of said Quarter Section a distance of 1,978.65 feet; thence North 00 degrees 22 minutes 21 seconds West 434.13 feet to the POINT OF BEGINNING of this description; thence continuing North 00 degrees 22 minutes 21 seconds West 1,007.55 feet; thence North 88 degrees 53 minutes 43 seconds East 153.46 feet; thence South 86 degrees 42 minutes 36 seconds East 64.56 feet; thence North 89 degrees 47 minutes 20 seconds East 282.50 feet; thence South 00 degrees 12 minutes 40 seconds East 110.00 feet to the point of curvature of a curve concave northeasterly, the radius point of said curve being North 89 degrees 47 minutes 20 seconds East 25.00 feet from said point; thence southeasterly along said curve 39.27 feet to the point of tangency of said curve, said point being South 00 degrees 12 minutes 40 seconds East 25.00 feet from the radius point of said curve; thence North 89 degrees 47 minutes 20 seconds East 20.58 feet to the point of curvature of a curve concave southerly, the radius point of said curve being South 00 degrees 12 minutes 40 seconds East 175.00 feet from said point; thence easterly along said curve 27.54 feet to the point of tangency of said curve, said point being North 08 degrees 48 minutes 15 seconds East 175.00 feet from the radius point of said curve; thence South 81 degrees 11 minutes 45 seconds East 62.45 feet to the point of curvature of a curve concave northerly, the radius point of said curve being North 08 degrees 48 minutes 15 seconds East 125.00 feet from said point; thence easterly along said curve 18.65 feet to the point of tangency of said curve, said point being South 00 degrees 15 minutes 19 seconds West 125.00 feet from the radius point of said curve; thence South 00 degrees 12 minutes 40 seconds East 80.00 feet; thence South 89 degrees 47 minutes 20 seconds West 300.51 feet; thence South 00 degrees 22 minutes 21 seconds East 612.49 feet; thence South 49 degrees 26 minutes 53 seconds East 40.00 feet; thence South 26 degrees 14 minutes 07 seconds West 143.27 feet; thence South 12 degrees 43 minutes 06 seconds West 50.00 feet; thence North 77 degrees 16 minutes 54 seconds West 71.98 feet to the point of curvature of a curve concave southeasterly, the radius point of said curve being South 12 degrees 43 minutes 06 seconds West 25.00 feet from said point; thence southwesterly along said curve 39.00 feet to the point of tangency of said curve, said point being North 76 degrees 39 minutes 19 seconds West 25.00 feet from the radius point of said curve, said point also being the point of curvature of a curve concave easterly, the radius point of said curve being South 76 degrees 39 minutes 19 seconds East 75.00 feet from said point; thence southerly along said curve 15.52 feet to the point of tangency of said curve, said point being North 88 degrees 30 minutes 49 seconds West 75.00 feet from the radius point of said curve; thence North 88 degrees 30 minutes 49 seconds West 50.00 feet to a point on a curve concave easterly, the radius point of said curve being South 88 degrees 30 minutes 49 seconds East 125.00 feet from said point; thence northerly along said curve 57.25 feet to the point of tangency of said curve, said point being North 62 degrees 16 minutes 18 seconds West 125.00 feet from the radius point of said curve; thence South 89 degrees 37 minutes 39 seconds West 169.73 feet to the place of beginning, containing 9.366 acres, more or less, subject to all legal highways, rights-of-way, easements, and restrictions of record.



Know what's below.
 Call before you dig.

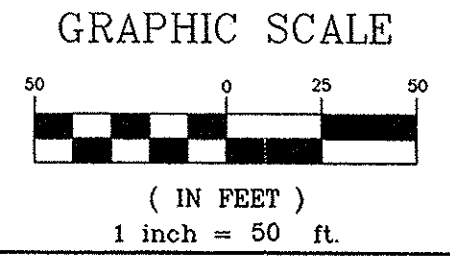
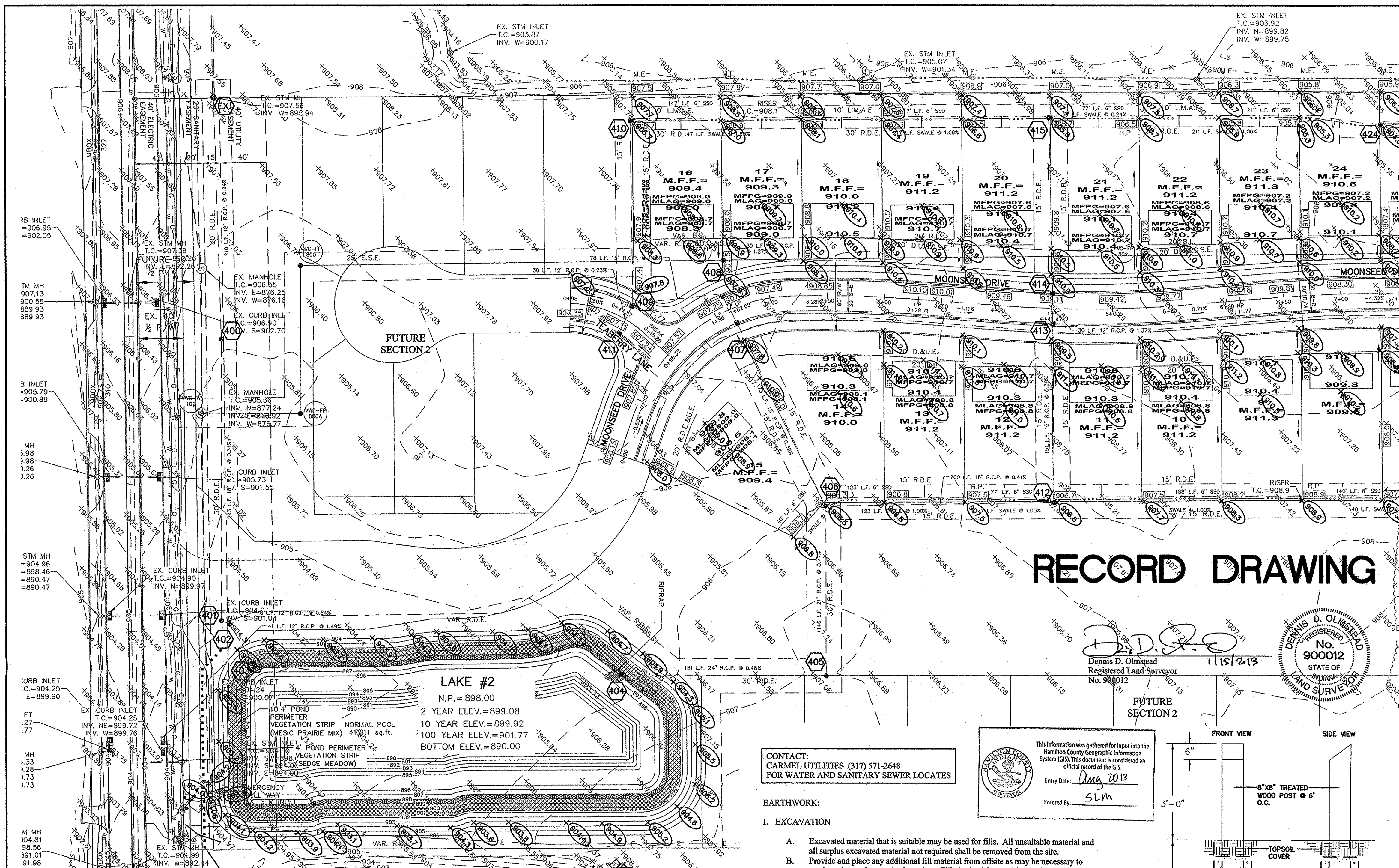


PLANS PREPARED BY:
STOEPPELWERTH & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
 7965 E. 106TH STREET, FISHERS, INDIANA 46038
 PHONE: (317)-849-5935
 FAX: (317)-849-5942
 CONTACT PERSON: BRETT A. HUFF
 EMAIL: BHUFF@STOEPPELWERTH.COM

PLANS CERTIFIED BY:

David J. Stoepfelwerth 7/20/12
 DAVID J. STOEPPELWERTH
 PROFESSIONAL LAND SURVEYOR
 NO. 19358





STORM SEWER FOR THIS PROJECT WILL BE PUBLIC.
 ALL STORM SEWERS WITHIN PUBLIC RIGHT-OF-WAY SHALL BE RCP CLASS III.

DRAINAGE SUMMARY

OVERALL SITE ACREAGE=32.446 AC±
 SECTION 0010-C=9.366 AC±
 ALLOWABLE RATE CALCULATION:
 0.1 cfs/acre = 10-yr 0.24 cfs/acre = 100-yr
 Restricted rates based on the J.W. Brendle Drain

VOLUME DETENTION REQUIRED
 LAKE #1 = 257,940 ft³
 LAKE #2 = 180,742 ft³

VOLUME DETENTION PROVIDED
 LAKE #1 = 258,798 ft³
 LAKE #2 = 320,786 ft³

RELEASE RATE (WITH 8" ORIFICE)
 LAKE #1 10 YR. 100 YR.
 ALLOWABLE 1.818cfs 4.363cfs
 POST DEV. 1.806cfs 4.302cfs

LAKE #1 OFFSITE DRAINAGE:
 100 YR. cfs = 14.479 (PER VOWC SEC 6001 DRAINAGE REPORT)

RELEASE RATE (WITH 7" ORIFICE)
 LAKE #2
 ALLOWABLE 1.438cfs 3.451cfs
 POST DEV. 1.403cfs 3.428cfs

LAKE #2 OFFSITE DRAINAGE:
 THERE IS NO OFFSITE TO LAKE #2

PRE DEVELOPED ONSITE ACREAGE
 OUTLET 1 = 18.18
 OUTLET 2 = 14.38
 POST DEVELOPED ONSITE ACREAGE
 LAKE #1 = 16.93
 LAKE #2 = 15.56

LEGEND

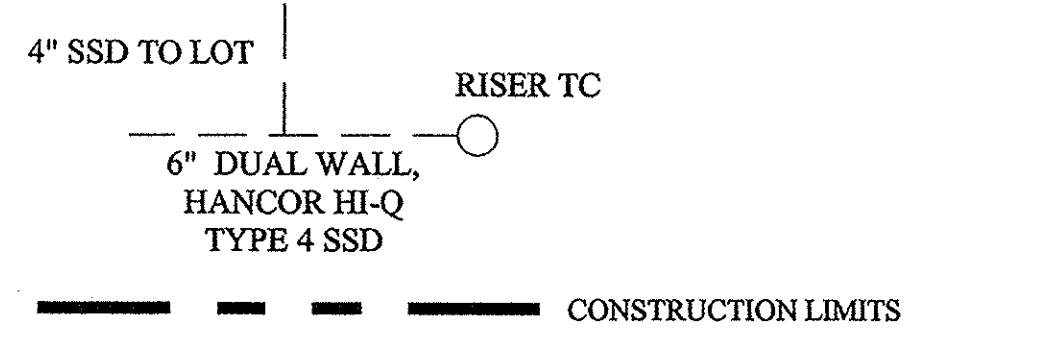
- - - - - EXISTING CONTOUR
- - - - - EXISTING SANITARY SEWER
- - - - - EXISTING STORM SEWER
- PROPOSED GRADE
- - - - - PROPOSED CONTOUR
- - - - - PROPOSED SANITARY SEWER
- - - - - PROPOSED STORM SEWER
- - - - - PROPOSED WATER LINE
- - - - - PROPOSED SWALE
- - - - - PROPOSED 5' SIDEWALK (BY HOME BUILDER) (DEVELOPER SHALL INSTALL SIDEWALKS ALONG ALL COMMON AREAS)

25
744.7
LOT NUMBER
PAD ELEVATION

4" SSD LATERAL STUB TO LOTS WITHOUT REAR YARD UNDERDRAINS (LOTS 4-6)
 PROPOSED 6" DUAL WALL HANCOR HI-Q TYPE 4 UNDERDRAINS

MIN. FINISH FLOOR ELEV. IS BASED OFF OF THE BELOW CRITERIA, WHICHEVER IS HIGHER:
 1. (1) FOOT ABOVE THE NEAREST UPSTREAM OR DOWNSTREAM SANITARY MANHOLE WHICH EVER IS LOWEST
 2. 15" (1.25') ABOVE THE ROAD ELEVATION
 3. 6" (0.5') ABOVE THE M.L.A.G

MFFP=752.6 MINIMUM FLOOD PROTECTION GRADE
 MLAG=753.0 MINIMUM LOWEST ADJACENT GRADE



RECORD DRAWING

Dennis D. Olmstead
 Registered Land Surveyor
 No. 900012
 STATE OF INDIANA

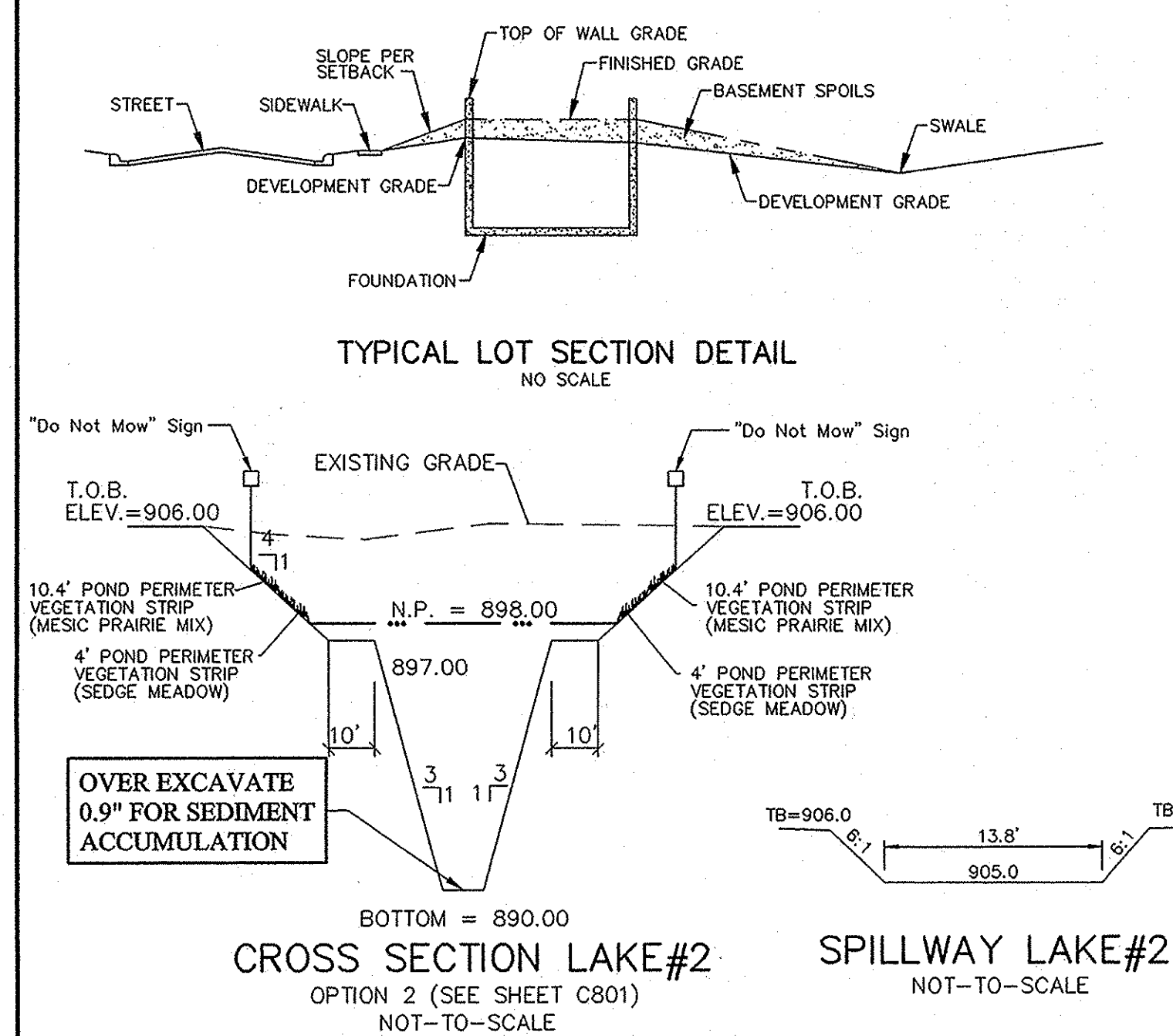
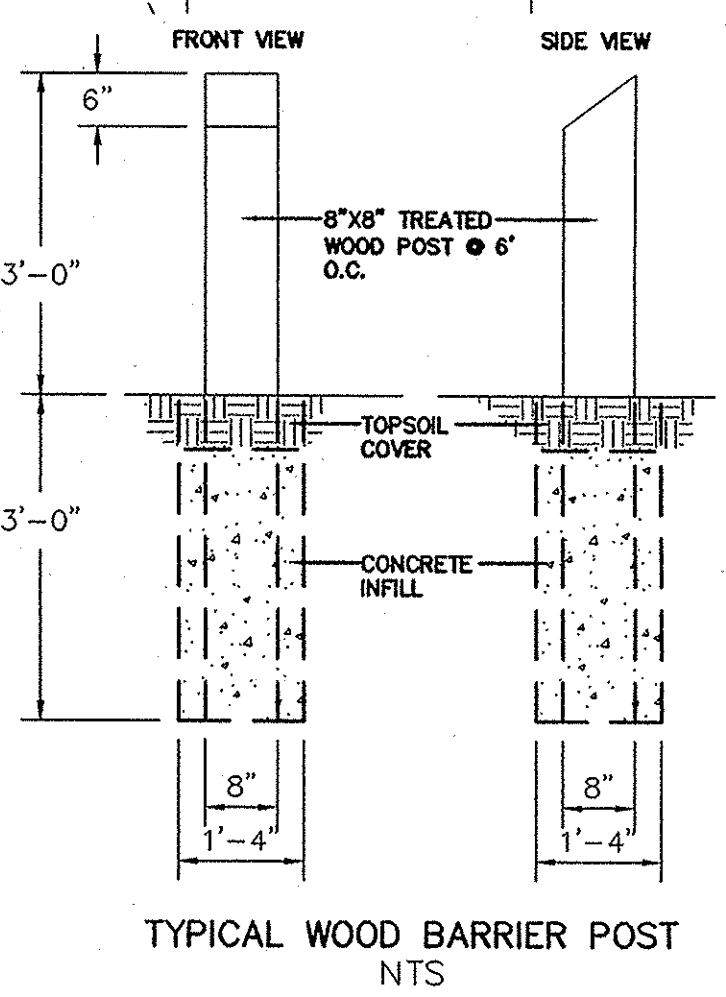
CONTACT:
 CARMEL UTILITIES (317) 571-2648
 FOR WATER AND SANITARY SEWER LOCATES

EARTHWORK:

1. EXCAVATION
 - A. Excavated material that is suitable may be used for fills. All unsuitable material and all surplus excavated material not required shall be removed from the site.
 - B. Provide and place any additional fill material from offsite as may be necessary to produce the grades required on plans. Fill obtained from offsite shall be of quality as specified for fills herein and the source approved by the Developer. It will be the responsibility of the Contractor for any costs for fill needed.
2. REMOVAL OF TREES
 - A. All trees and stumps shall be removed from areas to be occupied by a road surface or structure area. Trees and stumps shall not be buried on site.
3. PROTECTION OF TREES
 - A. The Contractor shall, at the direction of the Developer, endeavor to save and protect trees of value and worth which do not impair construction of improvements as designed.
 - B. In the event cut or fill exceeds 0.5 foot over the road area, the Developer shall be consulted with respect to protective measure to be taken, if any, to preserve such trees.
4. REMOVAL OF TOPSOIL
 - A. All topsoil shall be removed from all areas beneath future pavements or building. Topsoil removal shall be to a minimum depth of 6 inches or to the depth indicated in the geotechnical report provided by the Developer to be excavated or filled. Topsoil should be stored at a location where it will not interfere with construction operations. The topsoil shall be free of debris and stones.
5. UTILITIES
 - A. Rules and regulation governing the respective utility shall be observed in executing all work under this section.
 - B. It shall be the responsibility of the Contractor to determine the location of existing underground utilities 2 working days prior to commencing work. For utility locations to be marked call Toll Free 1-800-382-5544 within Indiana or 1-800-428-5200 outside Indiana.
6. SITE GRADING
 - A. Do all cutting, filling, compacting of fills and rough grading required to bring entire project area to subgrade as shown on the drawing.
 - B. The tolerance for paved areas shall not exceed 0.05 feet above established subgrade. All other areas shall not exceed 0.05 feet plus or minus the established grade. Provide roundings at top and bottom of banks and other breaks in grade.
 - C. The Engineer shall be notified when the Contractor has reached the tolerance as stated above, so that field measurements and spot elevations can be verified by the Engineer. The Contractor shall not remove his equipment from the site until the Engineer has verified that the job meets the above tolerance.

FORMEARTHWRK

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: Aug 2013
 Entered By: SLM



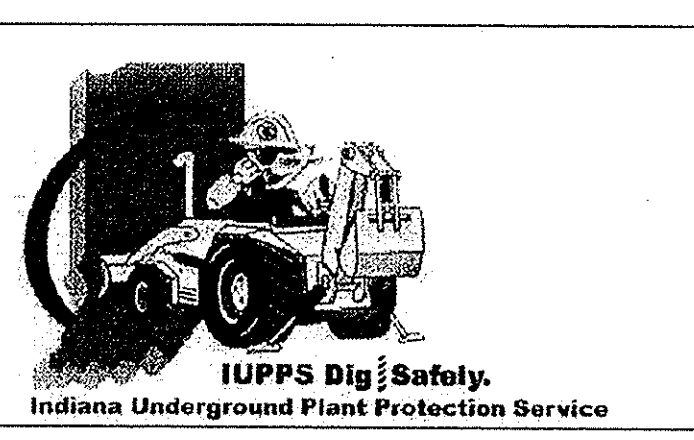
Minimum Flood Protection Grades
 From Sections 104.02, 302.06 and 303.07 of the City of Carmel Storm Water Technical Standards Manual

1. Definitions
 - a. Minimum Flood Protection Grade of all structures fronting a pond or open ditch shall be no less than 2 feet above any adjacent 100-year local or regional flood elevations, whichever is greater, for all windows, doors, pipe entrances, window wells, and any other structure member where floodwaters can enter a building.
 - b. Lowest Adjacent Grade is the elevation of the lowest grade adjacent to a structure, where the soil meets the structural members such as basement walkout, patios, decks, porches, support posts or piers, and rim of the window well.
2. Standard: Lowest Adjacent Grade
 - a. General
 - i. The Lowest Adjacent Grade for residential, commercial, or industrial buildings shall have two feet of freeboard above the flooding source's 100-year flood elevation under proposed conditions.
 - ii. For areas outside a Special Flood Hazards Area (SFHA) or FEMA or IDNR designated floodplain
 1. The Lowest Adjacent Grade for all residential, commercial, or industrial buildings adjacent to ponds shall be set a minimum of 2 feet above the 100-year pond elevation or 2 feet above the emergency overflow weir elevation, whichever is higher.
 2. The Lowest Adjacent Grade for all residential, commercial, or industrial buildings shall be set a minimum of 2 feet above the highest noted overflow path/ponding elevation across the property frontage.
 - iii. In addition to the Lowest Adjacent Grade requirements, any basement floor must be at least a foot above the normal water level of any wet-bottom pond.
 - b. Design Notes
 - i. Each lot that is adjacent to a pond, open ditch or flooding source has a flood protection grade. There are instances where there are multiple different flooding sources for 1 structure. In this case, there should be a flood protection grade listed for each side of the structure in the event that piping from the structure discharge to either flood source.
 - ii. Finished floor elevation or the lowest building entry elevation shall be no less than 6 inches above finished grade around the building. Also, the building's lowest entry elevation that is adjacent to and facing a road shall be a minimum of 15 inches above the road elevation.

FLOOD STATEMENT
 THIS SITE DOES NOT LIE WITHIN A FLOODWAY OR FLOOD PLAIN PER FIRM MAP 18057C0205F DATED FEB 19, 2003.

VEGETATIVE COVER
 EXISTING SITE CONSIST MOSTLY OF GRASS AND WEEDS WITH WOODS ON THE SITE.

ADJACENT PROPERTIES
 NORTH: RESIDENTIAL
 EAST: RESIDENTIAL
 SOUTH: RESIDENTIAL
 WEST: RESIDENTIAL



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 ALWAYS ON
 7945 East 106th Street, Fishers, IN 46038-2505
 phone: 317.840.5935 fax: 317.840.5942

SITE DEVELOPMENT PLAN
 VILLAGE OF WEST CLAY,
 SECTION 10010-C

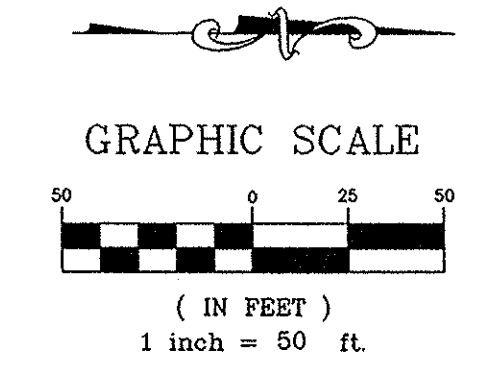
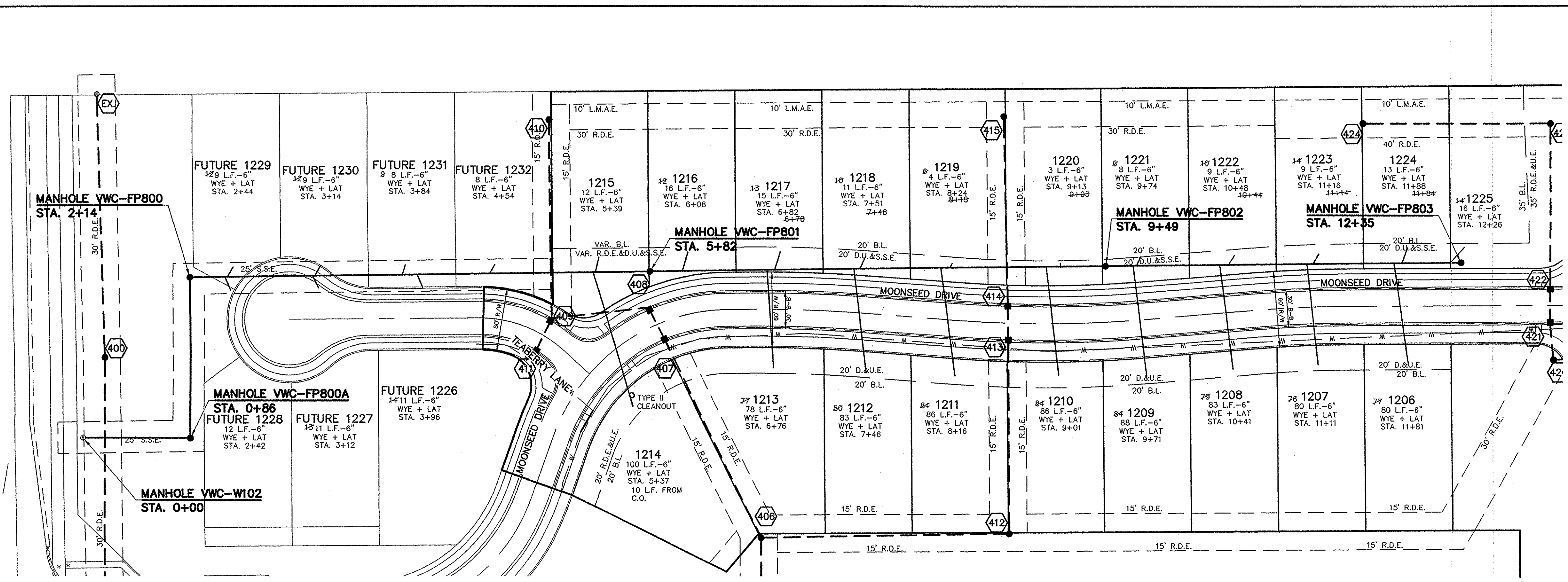
HAMILTON COUNTY, INDIANA
 CLAY TOWNSHIP

ASBUILT REVISED VEGETATION STRIP 11/17/13
 REVISED SPILLWAY AND D. SUMMARY 9/29/12
 REVISED PER COMMENTS 9/25/12
 REVISED PER M54 COMMENTS 9/20/12
 REVISED PER TAC COMMENTS 9/14/12

REGISTERED PROFESSIONAL ENGINEER
 No. 19358
 STATE OF INDIANA
 David J. Stappeler

CERTIFIED: 7/20/12

DRAWN BY: KRC CHECKED BY: BAH
 SHEET NO. C200
 S & A JOB NO. 55960PUL



NO EARTH DISTURBING ACTIVITIES MAY TAKE PLACE WITHOUT AN APPROVED STORM WATER MANAGEMENT PERMIT.

MIN. SLOPES PER THE TEN STATE STANDARDS SHALL PREVAIL IN ALL CASES.

THE EXTERIORS OF ALL MANHOLES NEED TO BE COATED PER CLAY TOWNSHIP REGIONAL WASTE STANDARDS.

THERE ARE TO BE NO WATER VALVES OR MANHOLES WITHIN THE PAVEMENT, CURB, OR SIDEWALK WITH THE EXCEPTION OF CURB INLETS.

INSTALL A TRACER WIRE WITH ALL MAINS AND SERVICE CONNECTIONS.

FOR INSTALLATION OF STORM MAINS, WATER MAINS, SANITARY MAINS, WATER SERVICE LATERALS, SANITARY SERVICE LATERALS UNDER CITY STREETS, REGARDLESS OF THE JURISDICTION OF THE UTILITY, THE MINIMUM COVER FROM THE TOP OF THE INSTALLED PAVEMENT TO THE TOP OF THE INSTALLED PIPE SHALL BE THE PAVEMENT SECTION THICKNESS (ALL BITUMINOUS AND AGGREGATE MATERIAL ABOVE THE SUBGRADE) PLUS 1'-0", BUT UNDER NO CIRCUMSTANCES SHALL THE COVER ALONG ANY PART OF THE PIPE FROM THE FINAL PAVEMENT ELEVATION TO THE TOP OF THE PIPE BE LESS THAN 2.5 FEET.

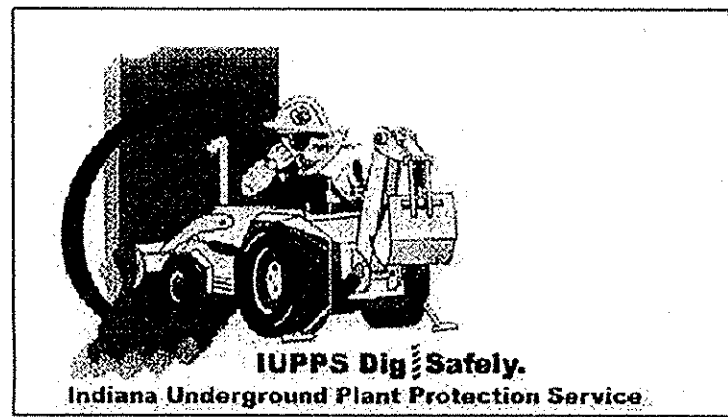
RECORD DRAWING

Dennis D. Olmstead
Registered Land Surveyor
No. 900012

2/15/2013

FULL DEPTH GRANULAR BACKFILL

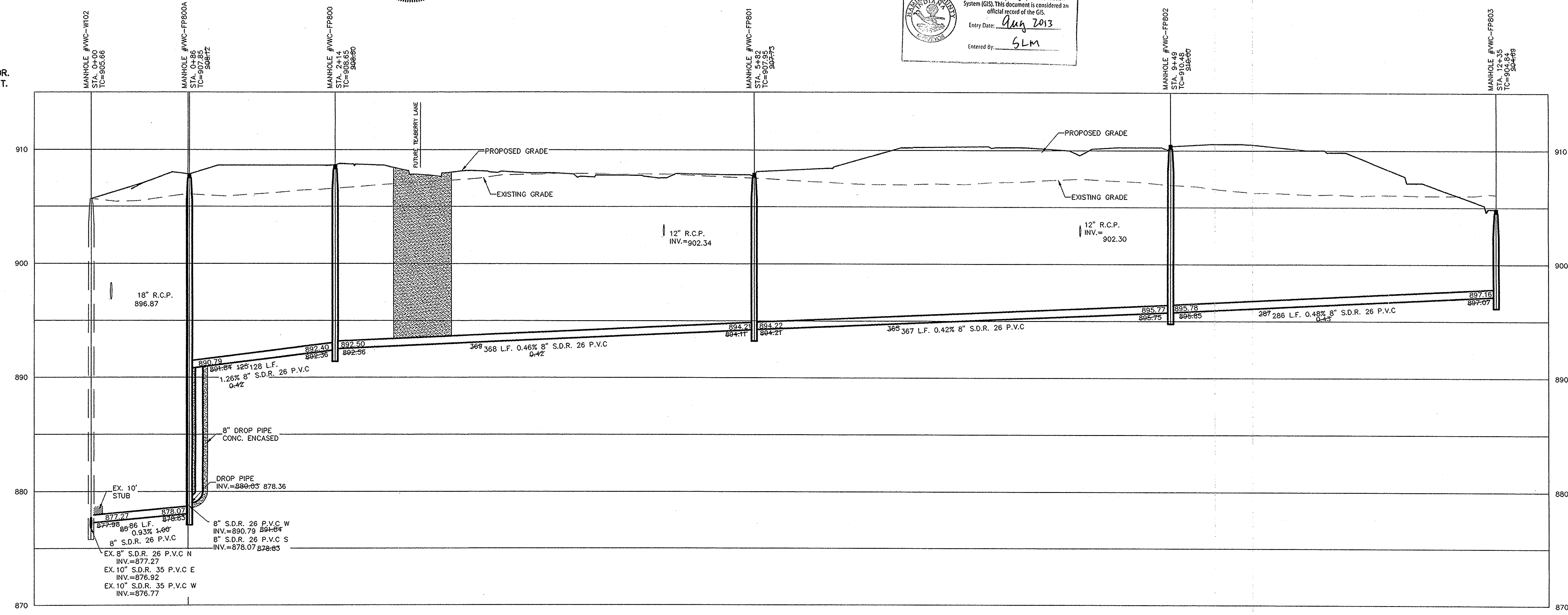
NOTE:
ALL FINAL STRUCTURE GRADES ARE TO BE WITHIN PLUS OR MINUS ONE TENTH (0.1') OF A FOOT OF DESIGN GRADE, AND ARE TO BE ESTABLISHED UTILIZING 1-4" RISER RING, NO MORE NO LESS, ON EACH STRUCTURE.



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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: Aug 2013
Entered By: SLM

SCALE: 1"=50' HOR.
1"=5' VERT.



BY	KRG	REVISIONS
CHKD	BAH	
DATE	2/8/13	
REVISED PER COMMENTS	7/24/13	
REVISED PER CTRWD COMMENTS	7/17/13	
REVISED PER TAC COMMENTS	9/13/12	
DATE	8/14/12	
MARK		

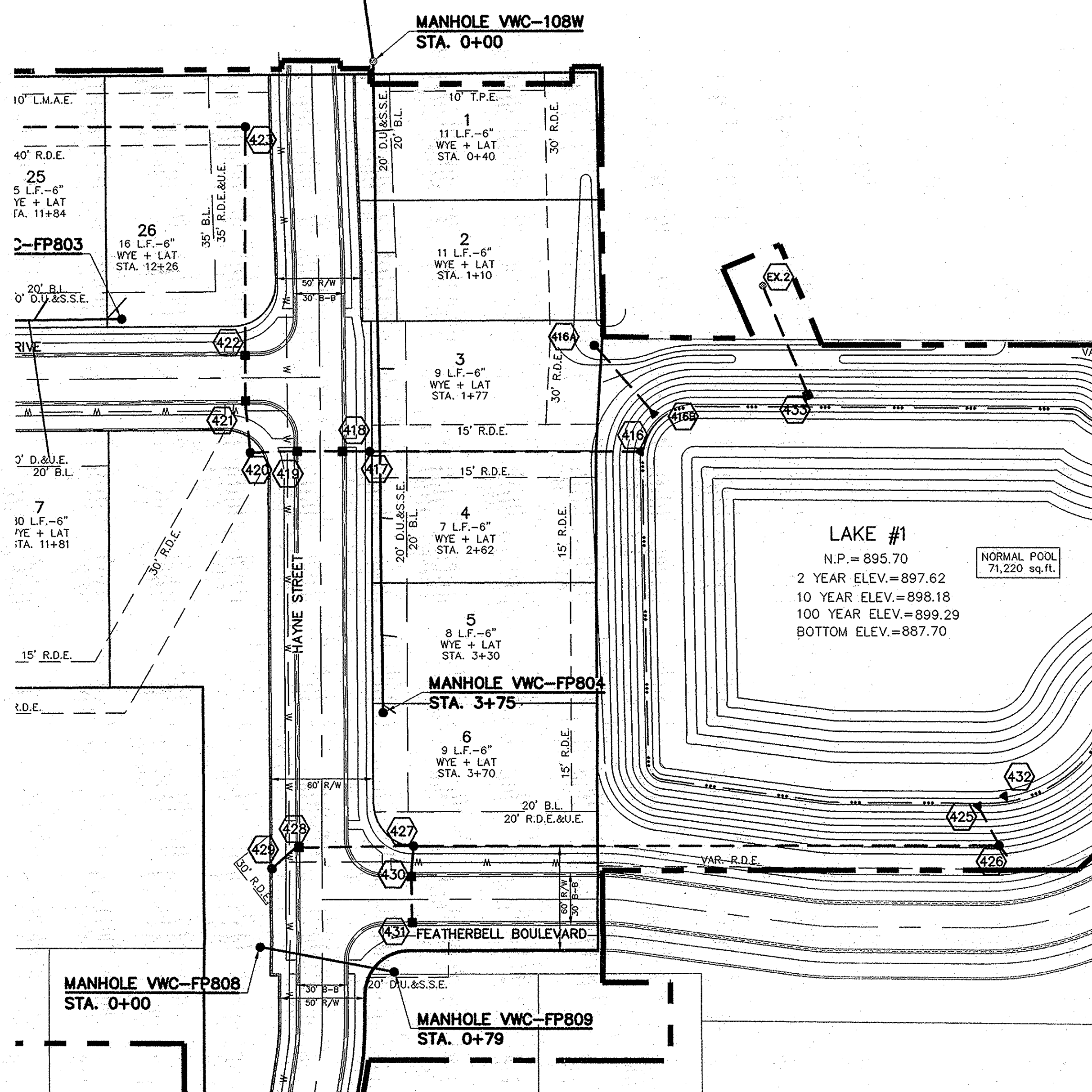
DAVID J. STOEPPELWERTH
REGISTERED PROFESSIONAL ENGINEER
No. 19358
STATE OF INDIANA

CERTIFIED: 7/20/12
David J. Stoepfelwerth

STOEPPELWERTH
ALWAYS ON
7965 East 10th Street, Fishers, IN 46038-2585
phone: 317.849.2985 fax: 317.849.5942

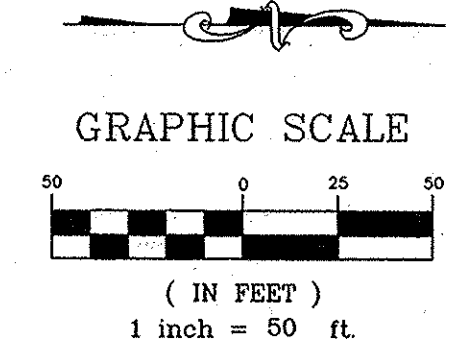
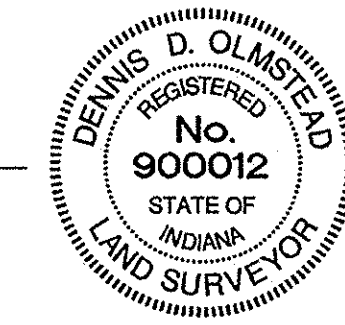
SANITARY PLAN & PROFILES
VILLAGE OF WEST CLAY,
SECTION 10010-C
CLAY TOWNSHIP
HAMILTON COUNTY, INDIANA

DRAWN BY: KRG
CHECKED BY: BAH
SHEET NO. C500



RECORD DRAWING

D.D.O.
Dennis D. Olmstead
Registered Land Surveyor
No. 900012



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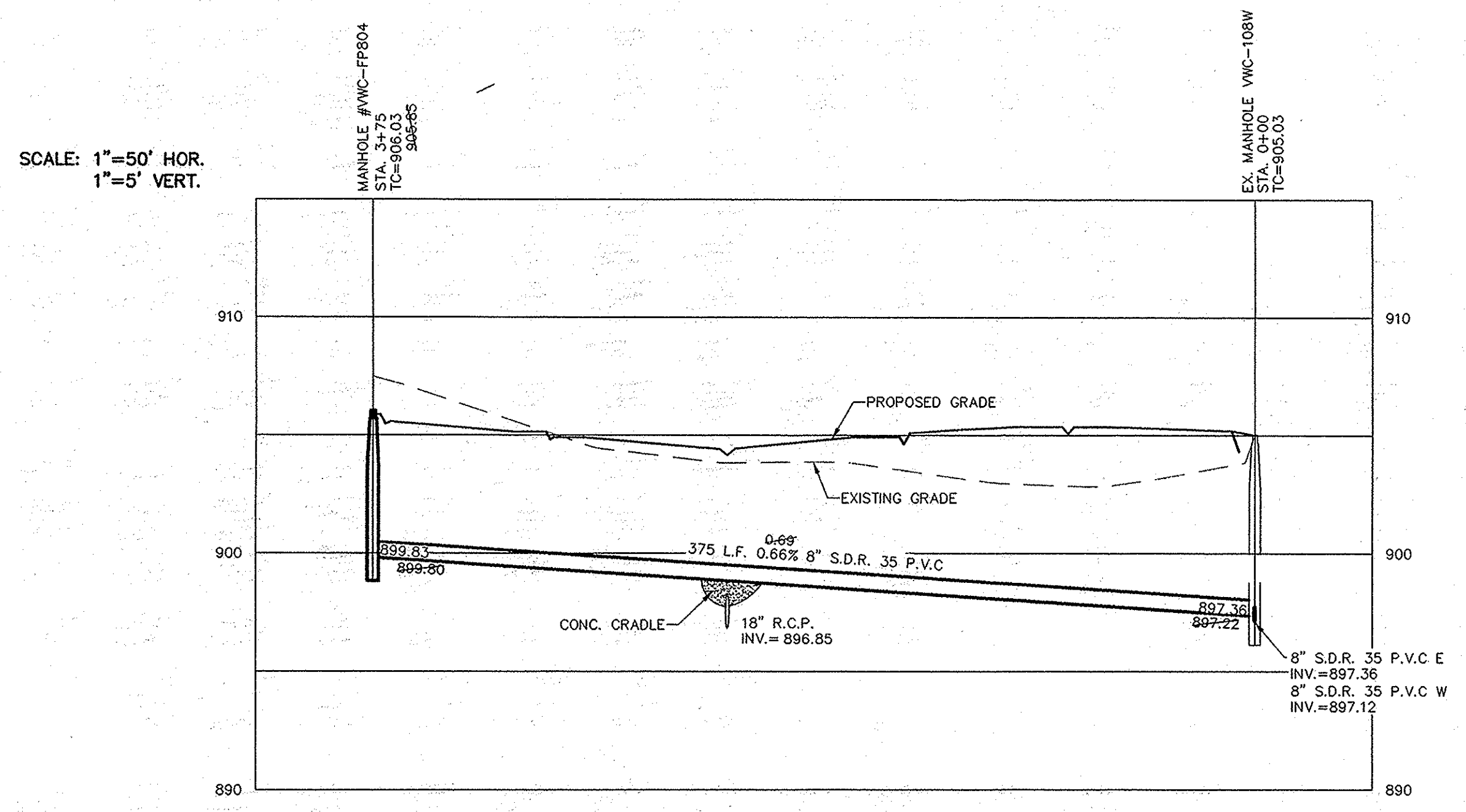
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INSTALL A TRACER WIRE WITH ALL MAINS AND SERVICE CONNECTIONS.

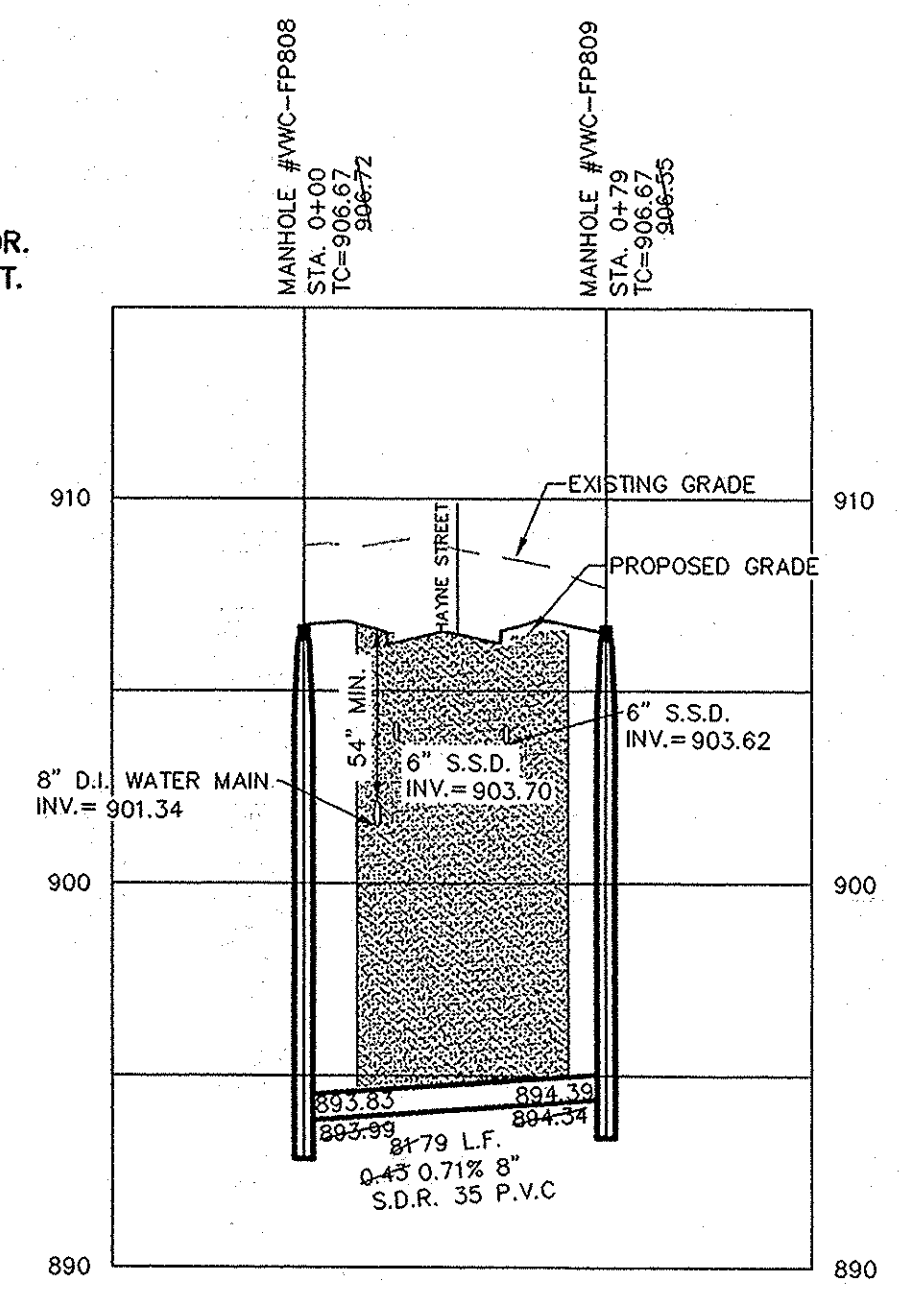
FOR INSTALLATION OF STORM MAINS, WATER MAINS, SANITARY MAINS, WATER SERVICE LATERALS, SANITARY SERVICE LATERALS UNDER CITY STREETS, REGARDLESS OF THE JURISDICTION OF THE UTILITY, THE MINIMUM COVER FROM THE TOP OF THE INSTALLED PAVEMENT TO THE TOP OF THE INSTALLED PIPE SHALL BE THE PAVEMENT SECTION THICKNESS (ALL BITUMINOUS AND AGGREGATE MATERIAL ABOVE THE SUBGRADE) PLUS 1'-0", BUT UNDER NO CIRCUMSTANCES SHALL THE COVER ALONG ANY PART OF THE PIPE FROM THE FINAL PAVEMENT ELEVATION TO THE TOP OF THE PIPE BE LESS THAN 2.5 FEET.

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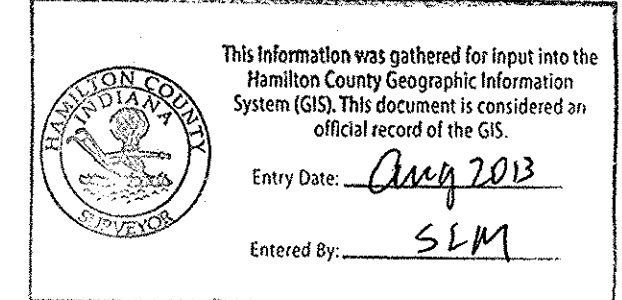
FULL DEPTH GRANULAR BACKFILL



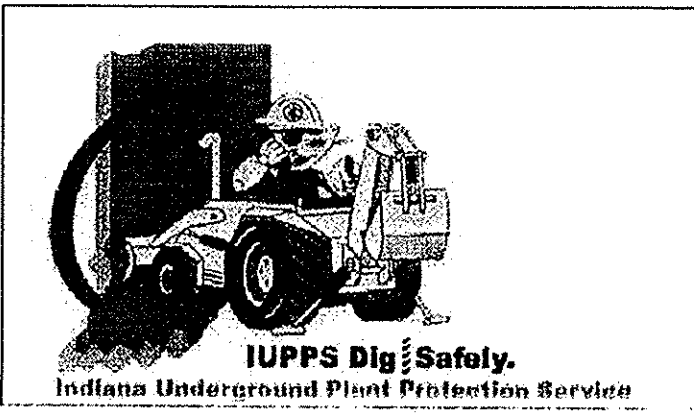
SCALE: 1"=50' HOR.
1"=5' VERT.



DORMANT SANITARY PIPE (808-809) TO AVOID CROSSING ROAD WITH FUTURE DEVELOPMENT



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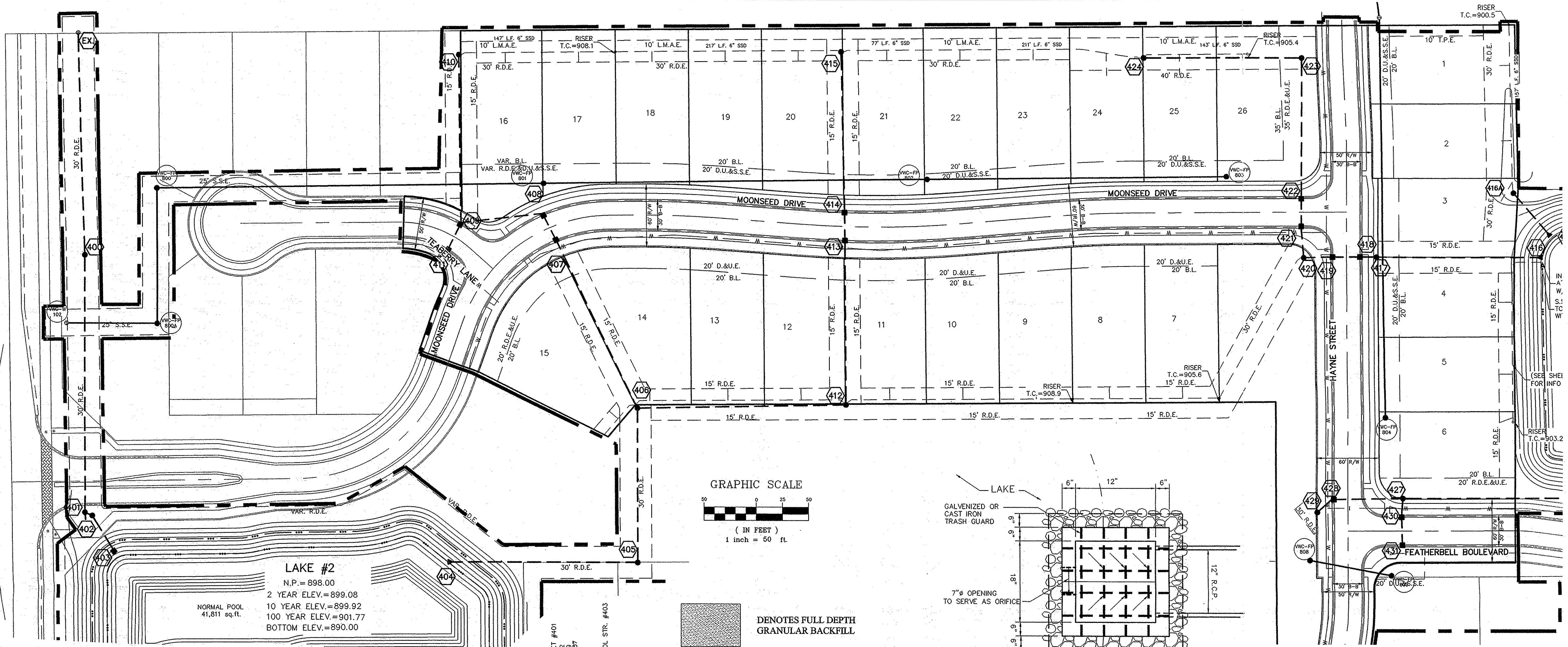
ASBUILT	11/12	REVISIONS	BY
REVISION PER COMMENTS	11/12	DATE	MARK
ADDED SSD IN PROFILE	8/6/12	REVISIONS	BY
REVISION PER TAC COMMENTS	8/4/12	DATE	MARK

STOEPPELWERTH
ALWAYS ON
796 East 10th Street, Fishers, IN 46038-2505
phone: 317.849.5985 fax: 317.849.5942

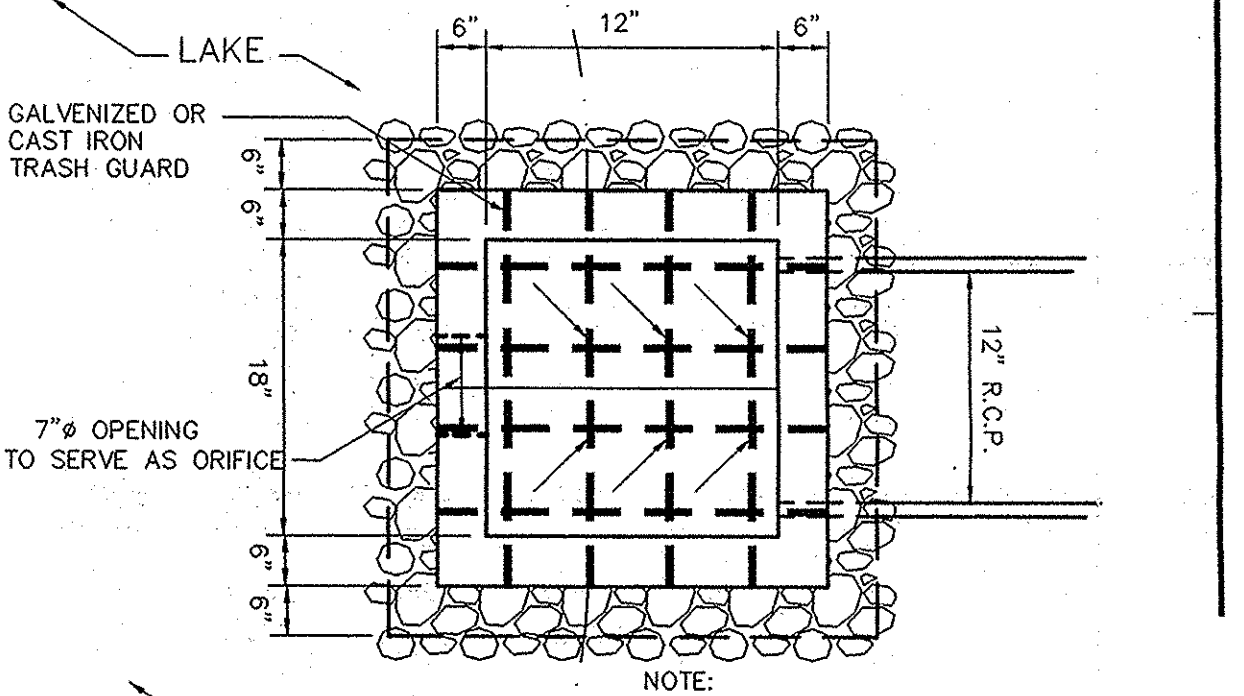
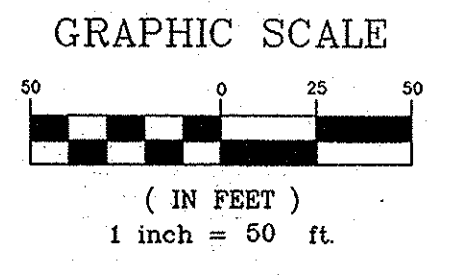
CERTIFIED: 7/20/12
David J. Stoepfelwerth
REGISTERED PROFESSIONAL ENGINEER
No. 19358
STATE OF INDIANA

SANITARY PLAN & PROFILES
VILLAGE OF WEST CLAY,
SECTION 10010-C
CLAY TOWNSHIP
HAMILTON COUNTY, INDIANA

DRAWN BY: KRG
CHECKED BY: BAH
SHEET NO. C501



LAKE #2
 N.P. = 898.00
 2 YEAR ELEV. = 899.08
 10 YEAR ELEV. = 899.92
 100 YEAR ELEV. = 901.77
 BOTTOM ELEV. = 890.00



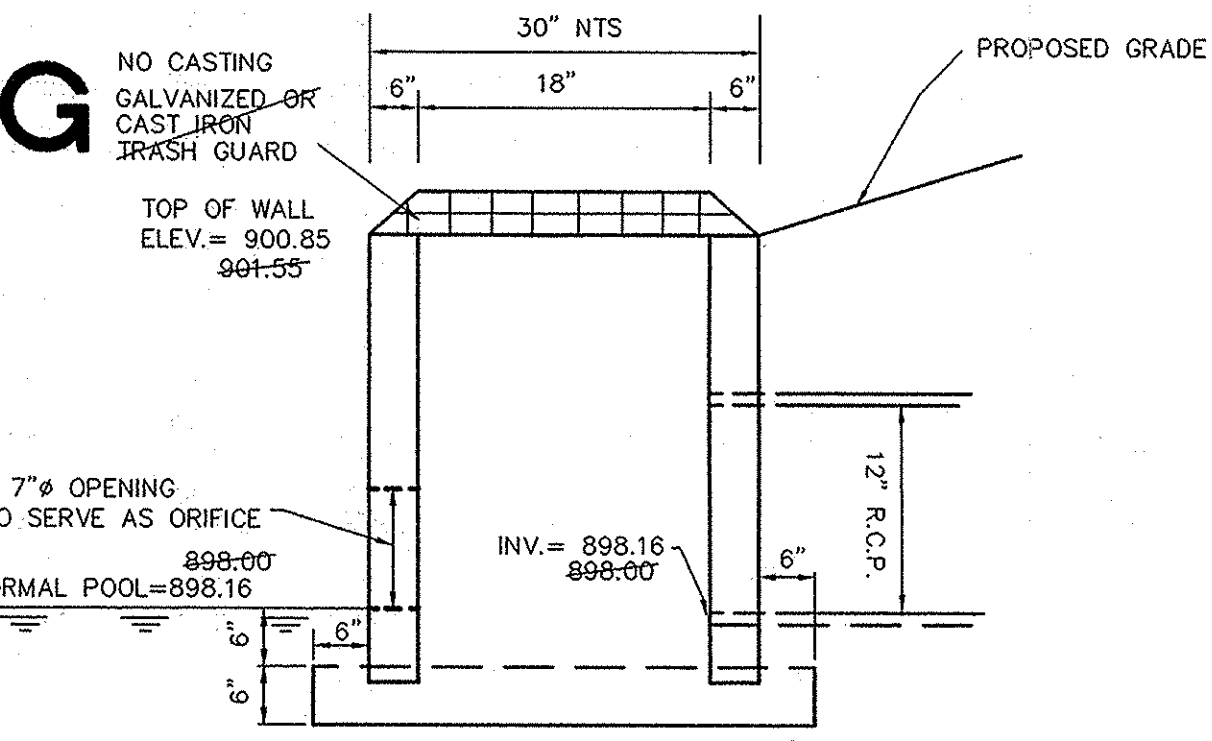
RECORD DRAWING

D. D. Olmstead
 Dennis D. Olmstead
 Registered Land Surveyor
 No. 900012
 11/15/2013



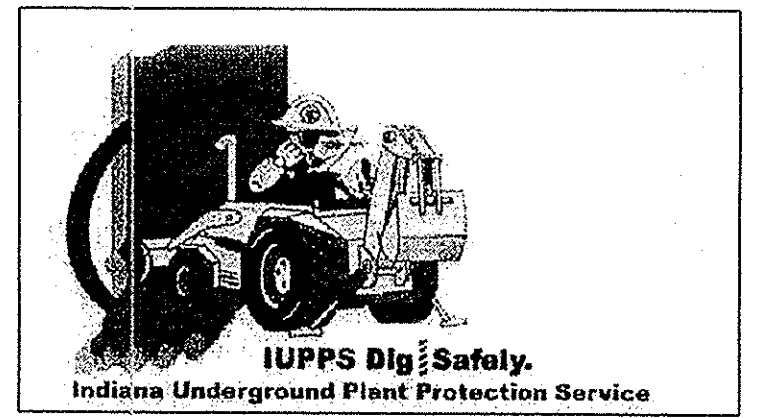
STORM SEWER NOTE

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 AND 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.



- NOTES:**
- ALL STORM STRUCTURES TO RECEIVE SOLID LID CASTINGS ARE TO BE CONSTRUCTED TO PROVIDE ONE 4" RISER RING NO MORE, NO LESS TO ACHIEVE PLAN RIM GRADE.
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- FOR STORM STRUCTURE SIZING AND CASTING TABLE SEE DETAIL D-18 ON SHEET C802.
- ALL STORM SEWERS WITHIN PUBLIC RIGHT-OF-WAY SHALL BE RCP CLASS III.



811
 Know what's below.
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SCALE: 1"=50' HOR.
 1"=5' VERT.

SCALE: 1"=50' HOR.
 1"=5' VERT.

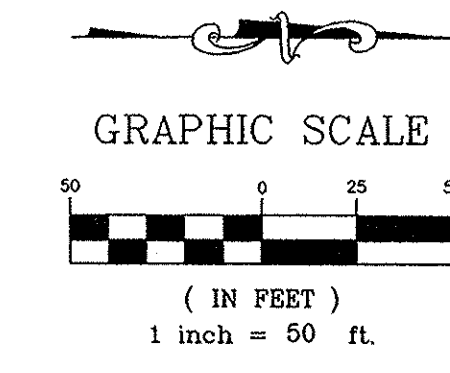
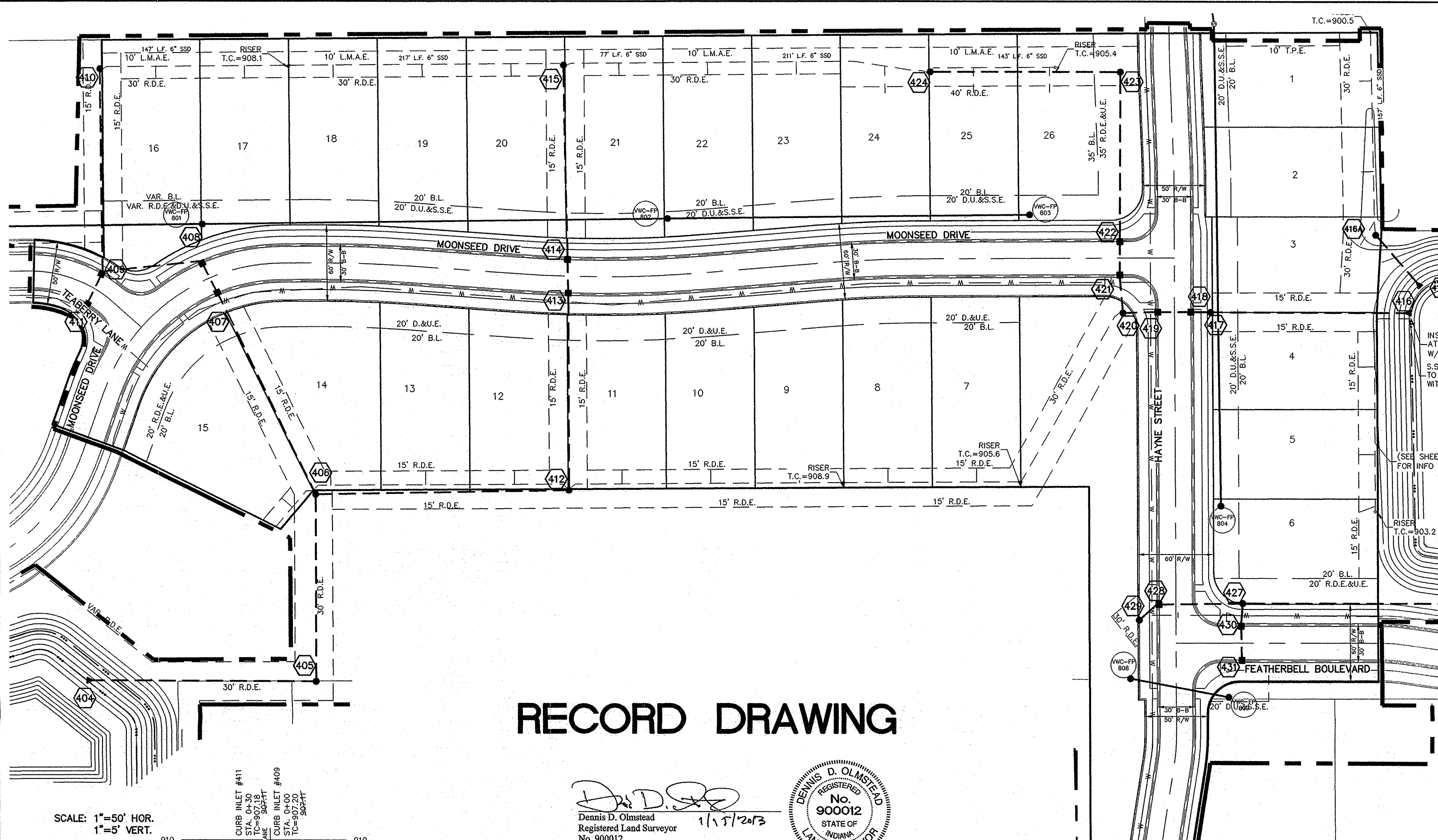
DATE	REVISIONS	BY
9/12/12	REVISED PER COMMENTS	KRG
9/27/12	ADDED SSD IN PROFILES	DCM
9/17/12	REVISED PER TAC COMMENTS	KRG
9/17/12	REVISED PER TAC COMMENTS	KRG

REGISTERED PROFESSIONAL ENGINEER
No. 19358
 STATE OF INDIANA
David J. Stoepfelwerth
 CERTIFIED: 7/20/12

STOEPPELWERTH
 ALWAYS ON
 7965 East High Street, Fishers, IN 46038-2505
 phone: 317.848.5905 fax: 317.848.5942

STORM PLAN & PROFILES
VILLAGE OF WEST CLAY,
SECTION 10010-C
 HAMILTON COUNTY, INDIANA
 CLAY TOWNSHIP

DRAWN BY: KRG
 CHECKED BY: BAH
 SHEET NO. **C600**
 5/2/11



NOTES:

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RECORD DRAWING

Dennis D. Olmstead
Registered Land Surveyor
No. 900012

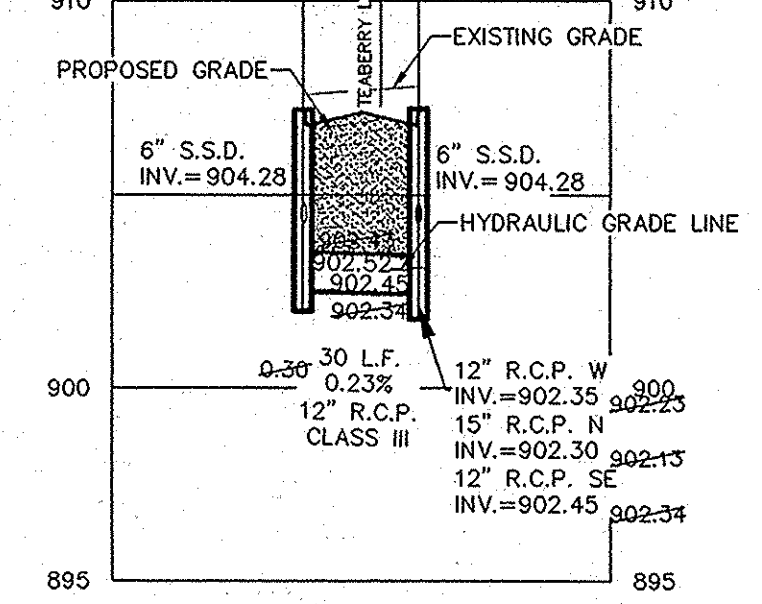
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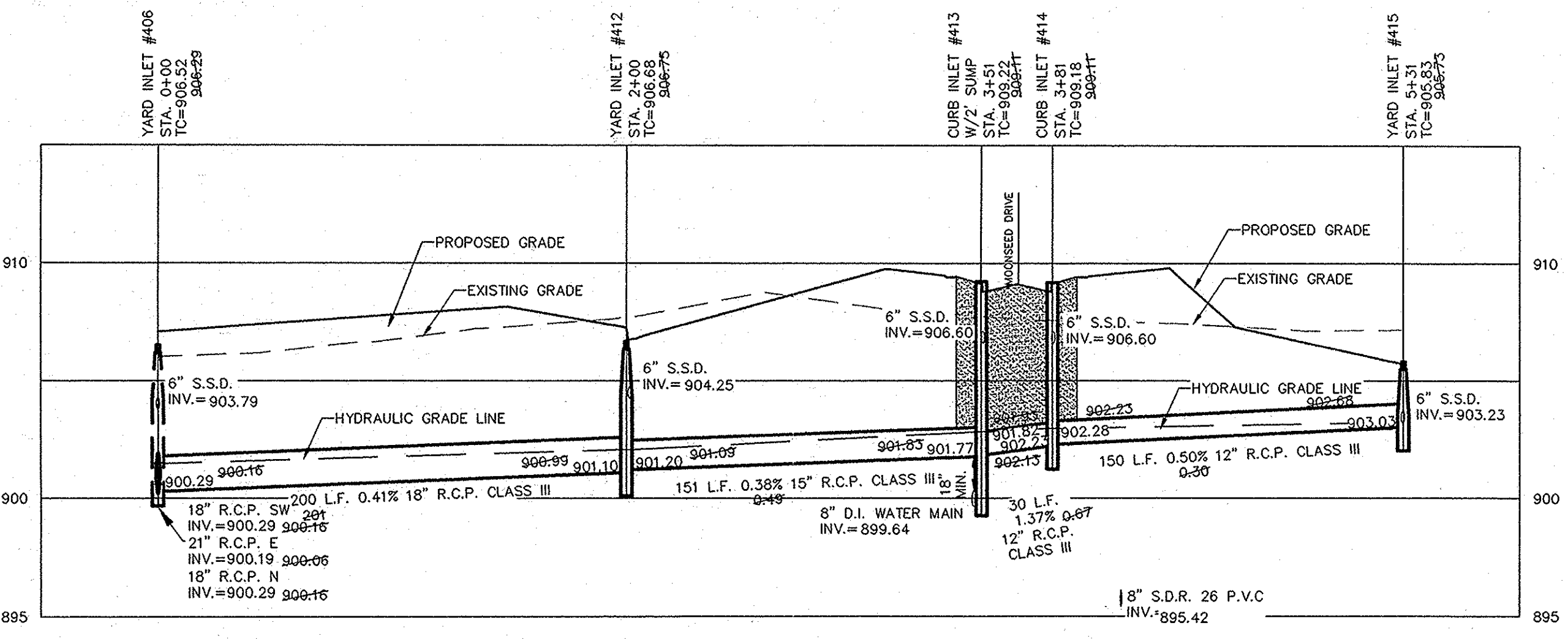
Entry Date: Aug 2013

Entered By: SLM

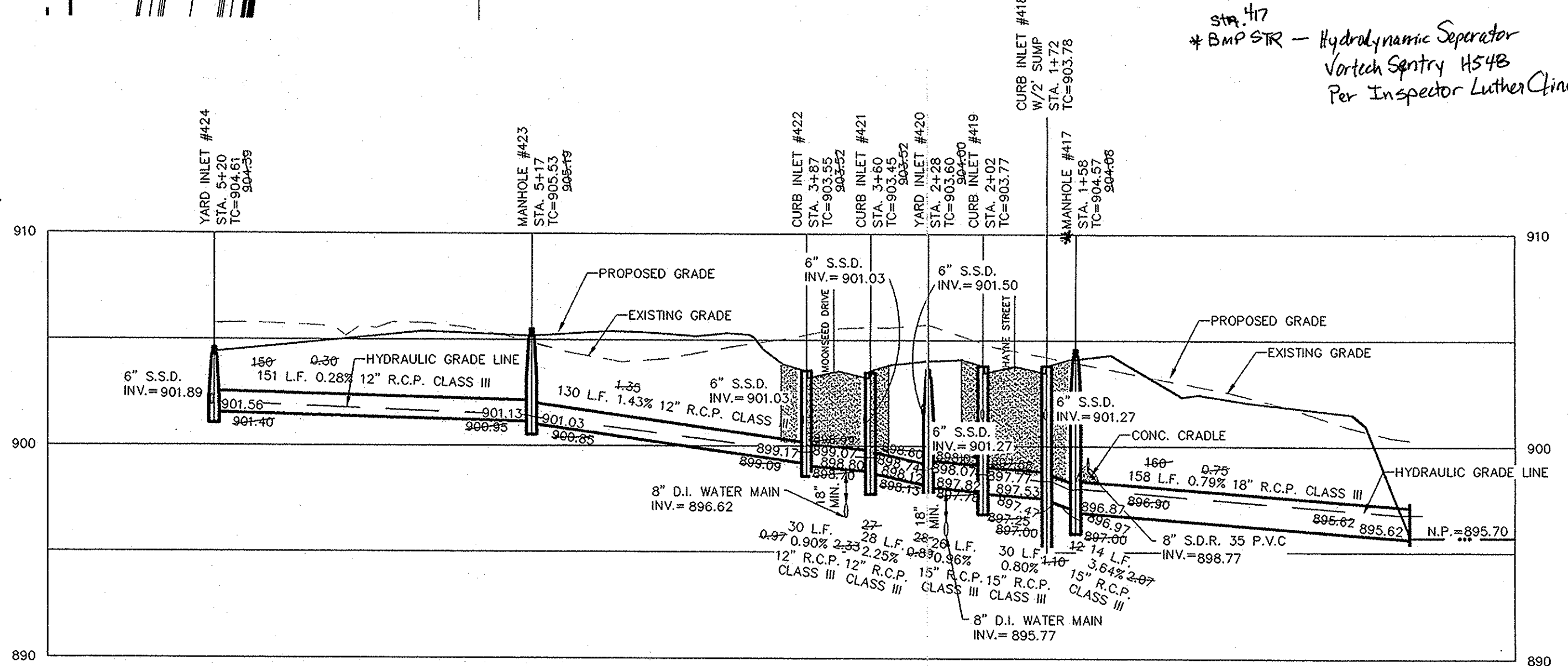
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1"=5' VERT.



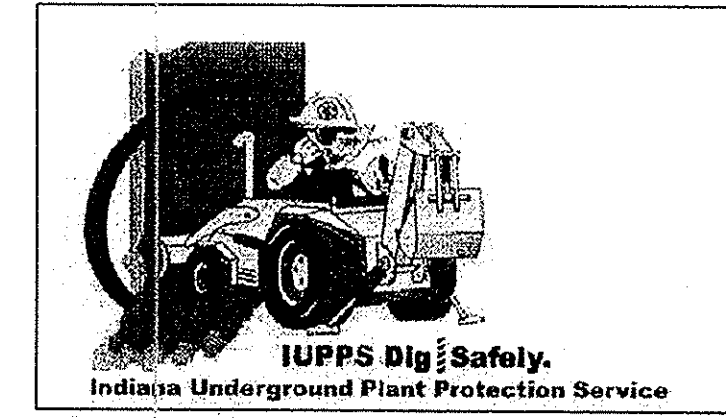
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1"=5' VERT.



SCALE: 1"=50' HOR.
1"=5' VERT.



DENOTES FULL DEPTH GRANULAR BACKFILL



STOEPPELWERTH
ALWAYS ON
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phone: 317.849.5945 fax: 317.849.5942

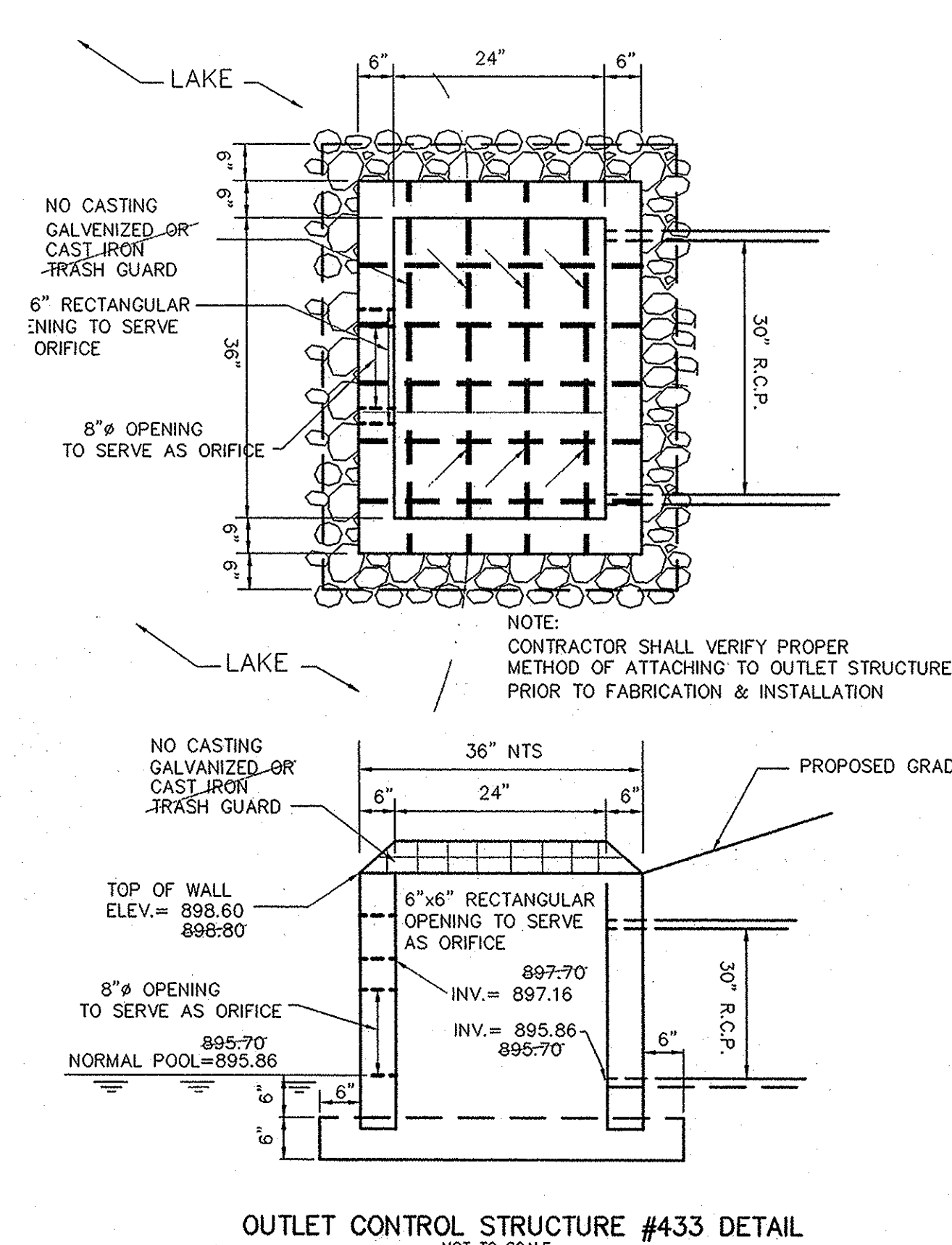
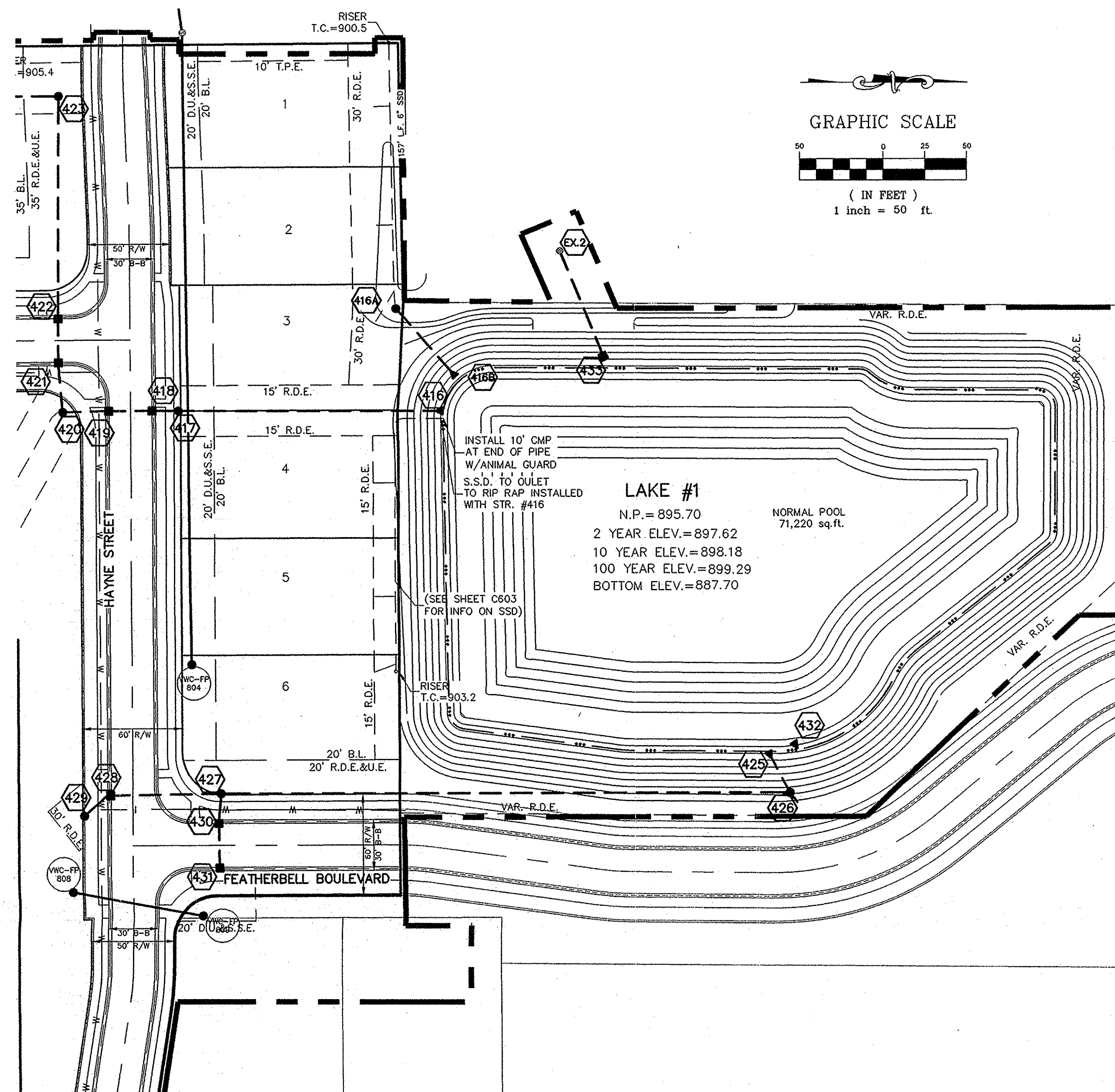
CERTIFIED: 7/20/12
David J. Stoepfelwirth
Professional Engineer

REGISTERED PROFESSIONAL ENGINEER
No. 19358
STATE OF INDIANA

STORM PLAN & PROFILES
VILLAGE OF WEST CLAY,
SECTION 10010-C
CLAY TOWNSHIP
HAMILTON COUNTY, INDIANA

DRAWN BY: KRG
CHECKED BY: BAH
SHEET NO. C601

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NOTES:

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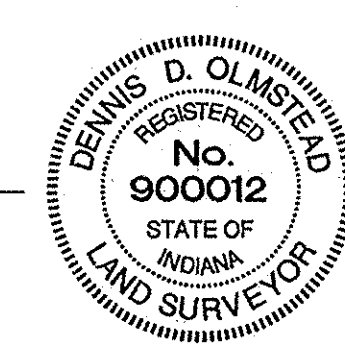
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RECORD DRAWING

Dennis D. Olmstead
Registered Land Surveyor
No. 900012
1/15/2013

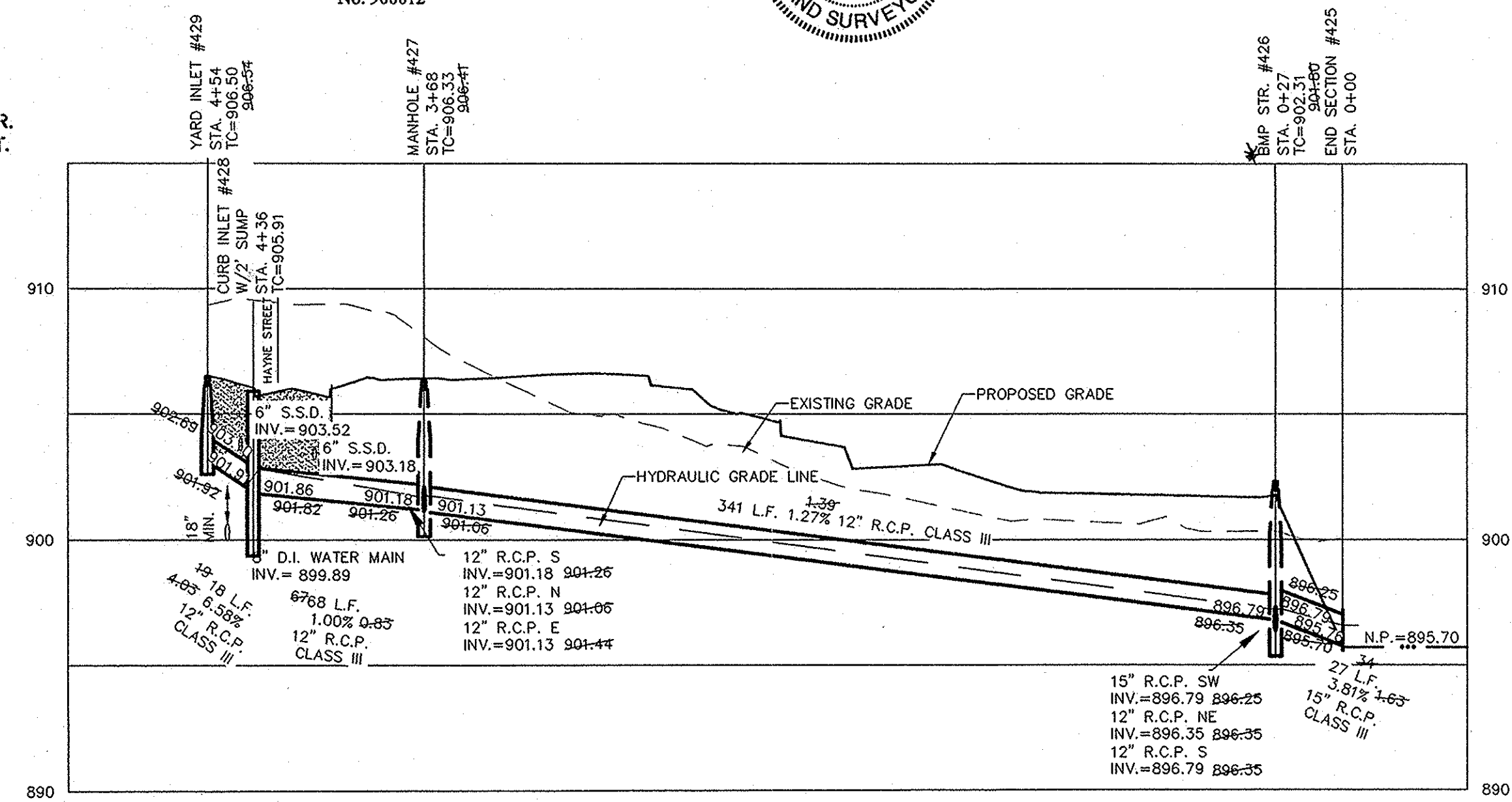


CONSTRUCTION LIMITS

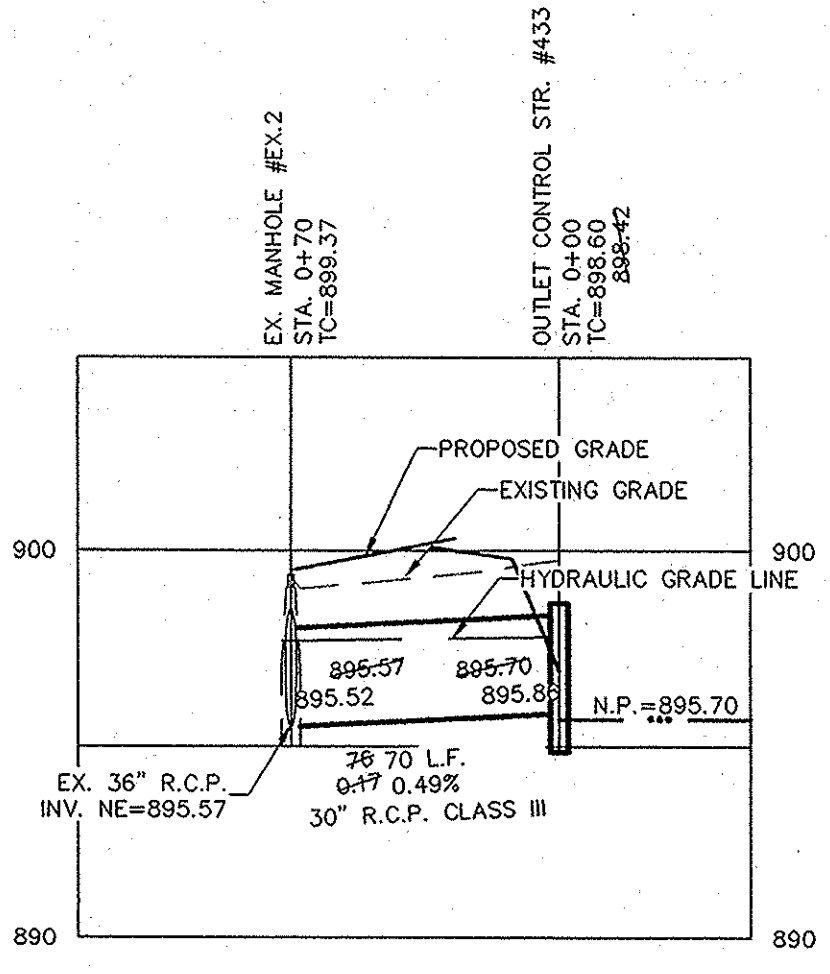
DENOTES FULL DEPTH GRANULAR BACKFILL

STR. # 426
* BMP STR. - Hydrodynamic Separator
Vort-Sentry H548
Per Inspector Lutna Cline

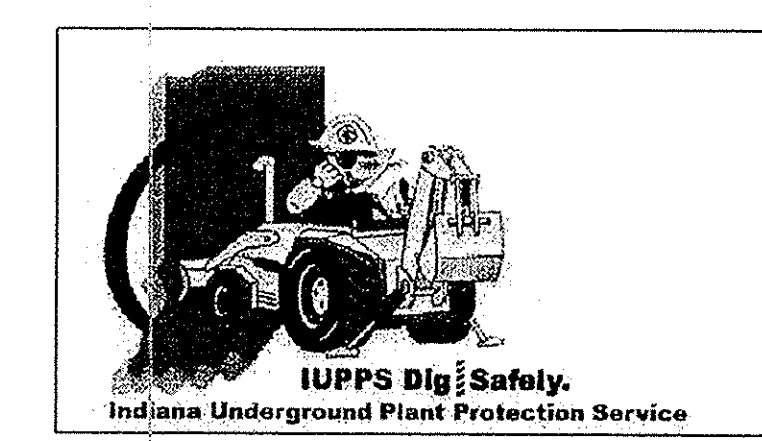
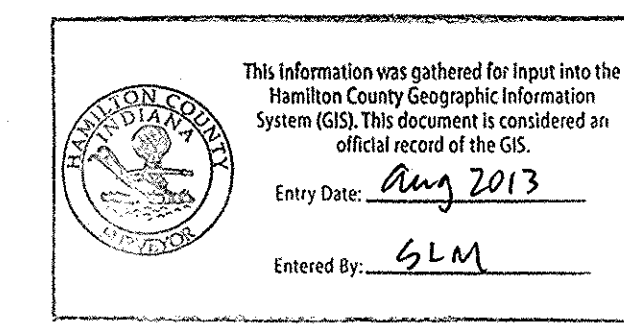
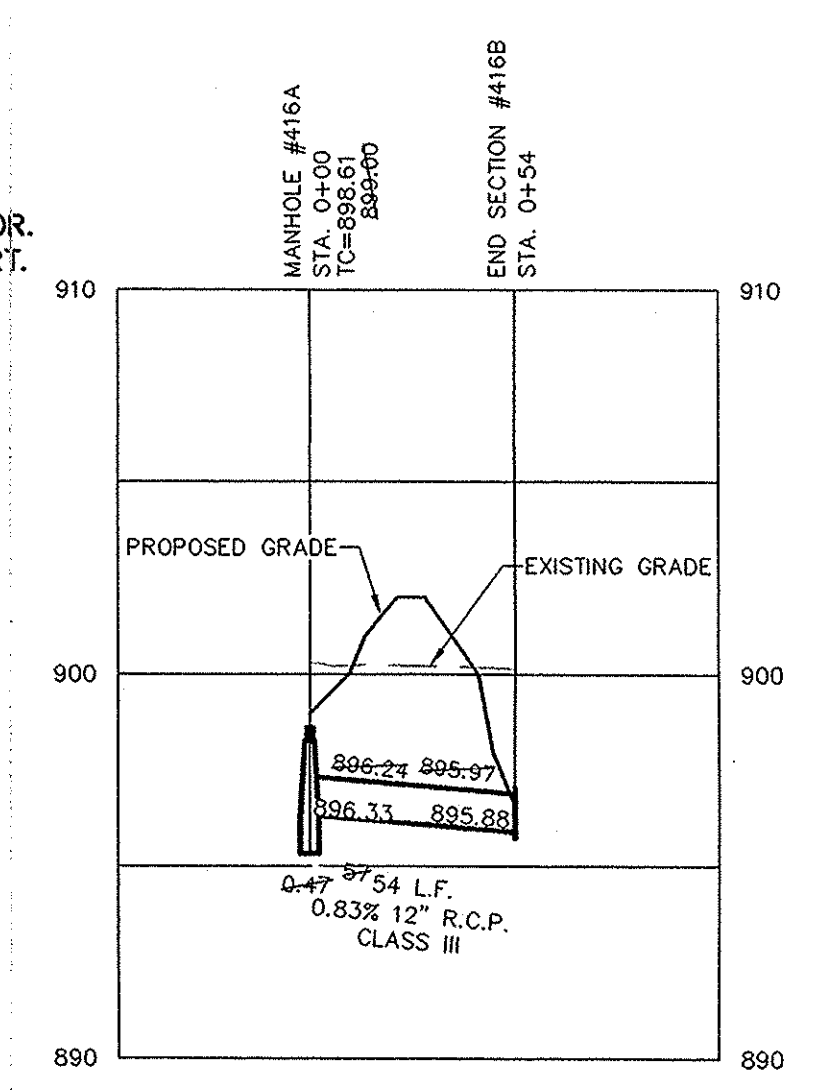
SCALE: 1"=50' HOR.
1"=5' VERT.



SCALE: 1"=50' HOR.
1"=5' VERT.



SCALE: 1"=50' HOR.
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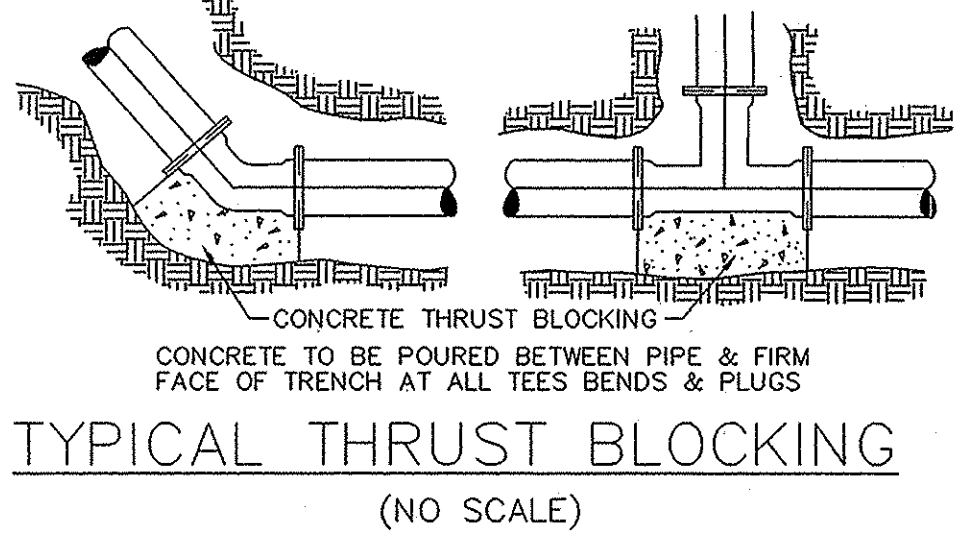
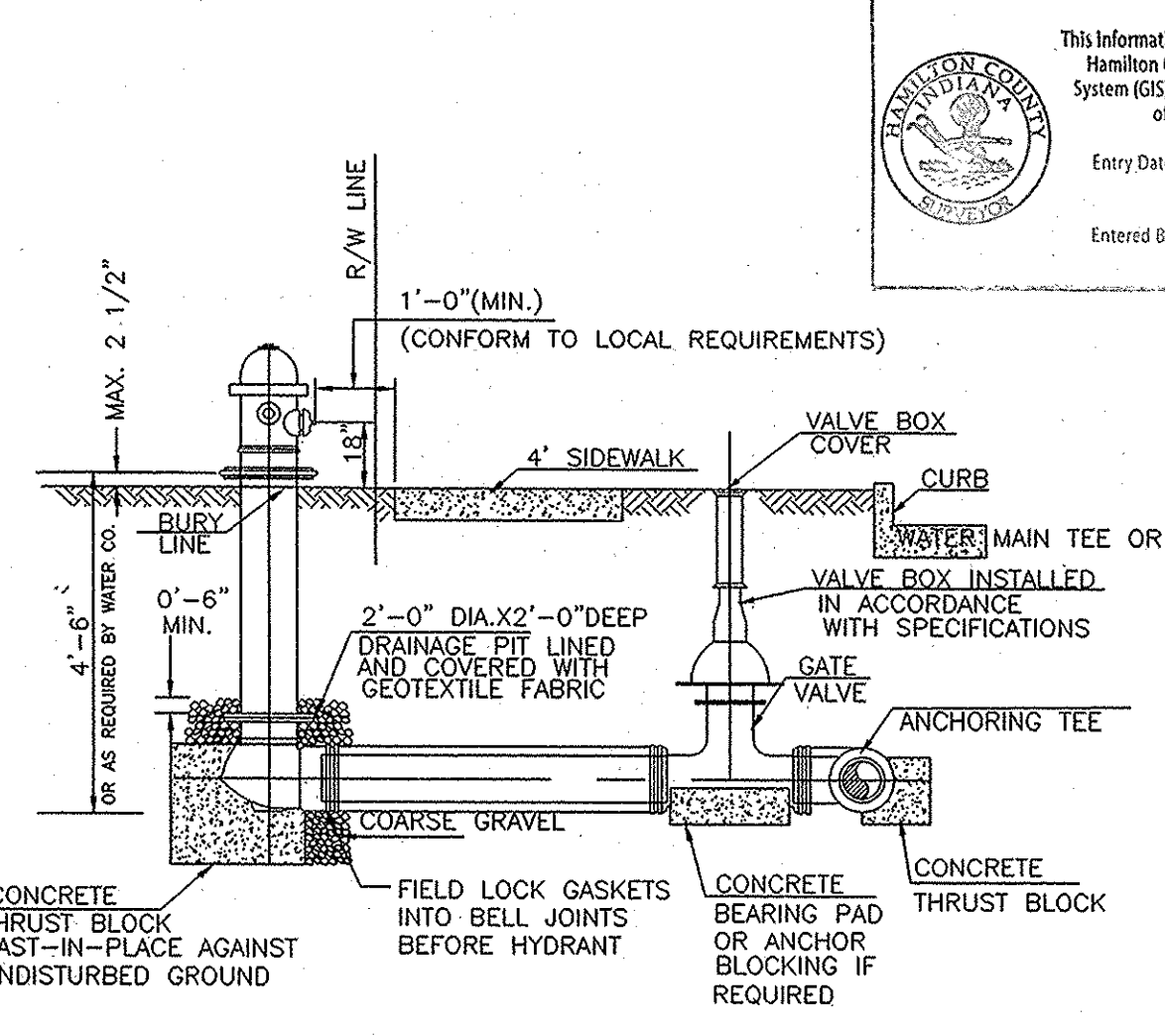
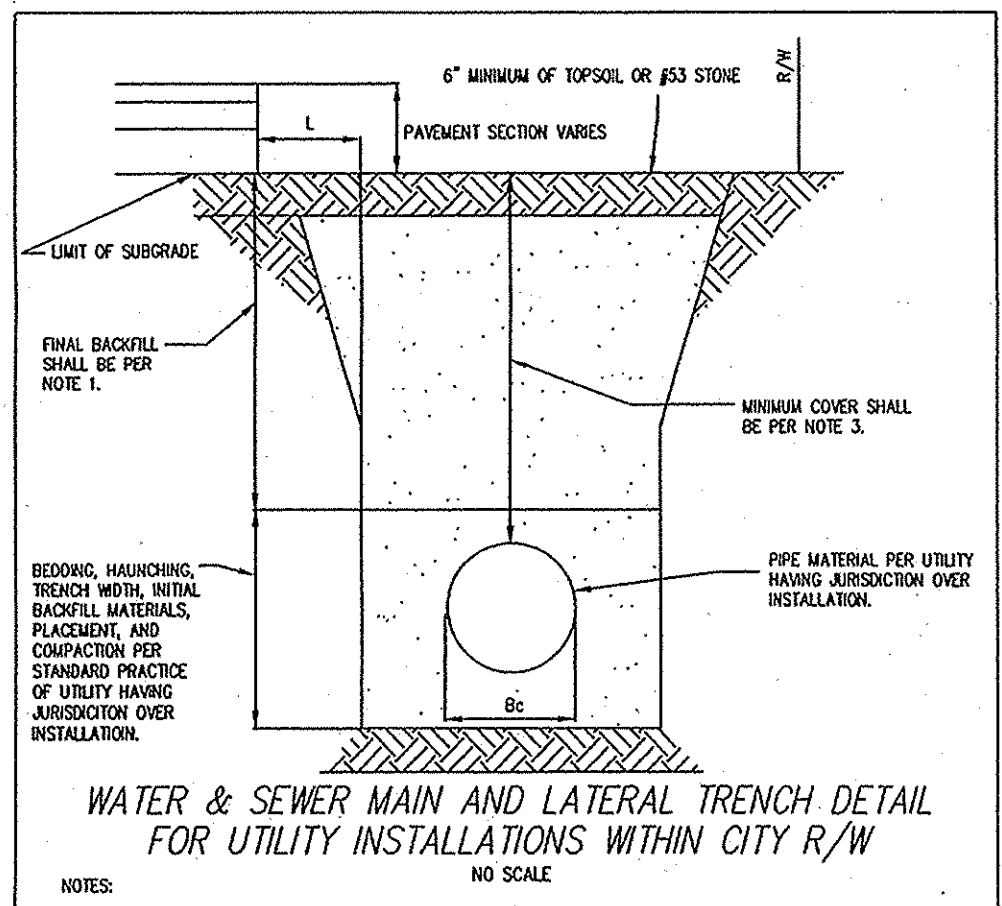
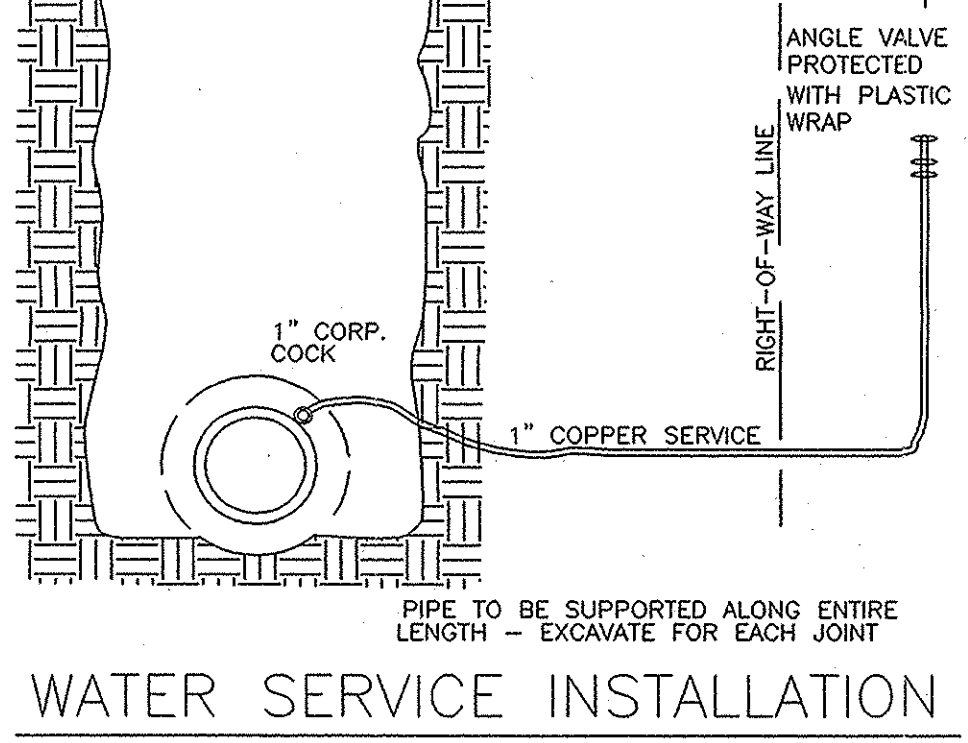
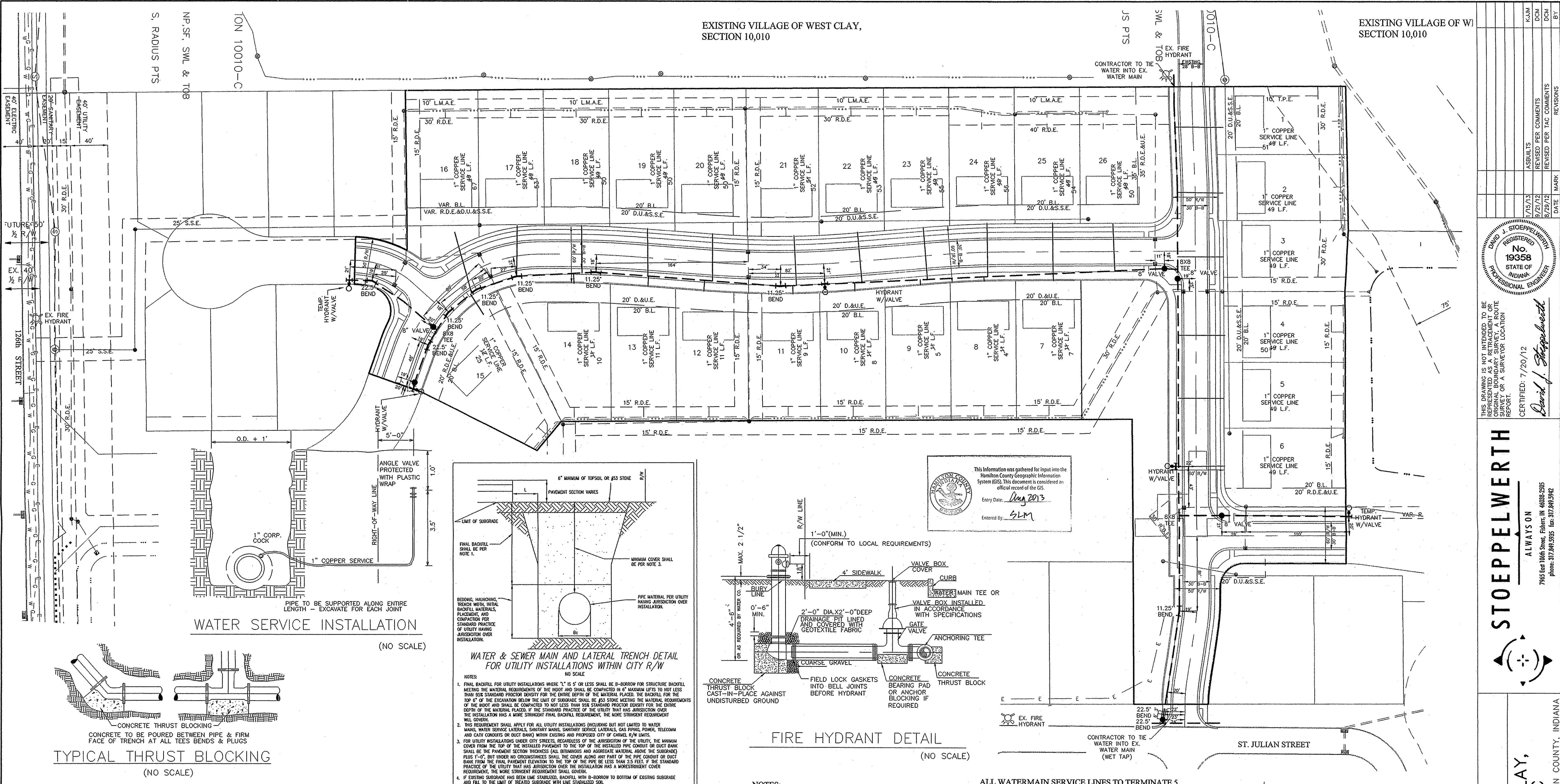
STOEPPELWERTH
REGISTERED PROFESSIONAL ENGINEER
No. 19358
STATE OF INDIANA

CERTIFIED: 7/20/12
David J. Stoepfelwerth

STORM PLAN & PROFILES
VILLAGE OF WEST CLAY,
SECTION 10010-C
CLAY TOWNSHIP
HAMILTON COUNTY, INDIANA

DATE	REVISIONS	BY
8/29/12	REVISED PER TAC COMMENTS	DCM
8/21/12	REVISED PER COMMENTS	DCM
7/11/13	ABSOLUTE	KJLM

DRAWN BY: KRG
CHECKED BY: BAH
SHEET NO. C602



PRESSURE PIPE JOINT RESTRAINT TABLE

LENGTH OF IPE TO BE RESTRAINED IN EACH DIRECTION FROM 1/4 OF BEND BASED ON 150 psi TEST PRESSURE

DEGREE OF BEND	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"
90°, TEES & PLUGS	27'	35'	42'	50'	58'	65'	73'	80'	95'	115'
45°	7'	9'	11'	13'	15'	17'	19'	21'	24'	29'
22-1/2°	3'	4'	5'	6'	7'	8'	9'	10'	12'	14'
11-1/4°	2'	2'	3'	3'	4'	4'	4'	5'	6'	7'

CITY OF CARMEL STANDARDS
 WATER & SEWER MAIN AND LATERAL TRENCH DETAIL FOR UTILITY INSTALLATIONS WITHIN CITY R/W
 STANDARD DRAWING 10-29

- LEGEND**
- PROPOSED HYDRANT W/6" VALVE
 - VALVE
 - BLOW OFF ASSEMBLY
 - REDUCER
 - EX. WATER METER
 - EX. WATER VALVE
 - EX. FIRE HYDRANT
 - CONSTRUCTION LIMITS

RECORD DRAWING

Drawn by: *D. D. Olmstead*
 Registered Land Surveyor No. 900012
 Date: 11/5/2013

Seal: DENNIS D. OLMSTEAD, Registered Professional Engineer, No. 900012, State of Indiana, Professional Engineer.

RESTRAINED JOINTS SHALL BE MECHANICAL JOINT WITH RETAINER GLANDS, US PIPE TR FLEX JOINT SYSTEM, US PIPE FIELD LOK GASKET SYSTEM,
 NOTE: THE ABOVE RESTRAINED JOINT LENGTHS ARE MINIMUM LENGTHS THE DESIGN ENGINEER SHALL DETERMINE IF LONGER LENGTHS ARE REQUIRED.

NOTES:
 NO EARTH DISTURBING ACTIVITIES MAY TAKE PLACE WITHOUT AN APPROVED STORM WATER MANAGEMENT PERMIT.

FOR INSTALLATION OF STORM, SANITARY, AND WATER UNDER CITY STREETS AND COVER REQUIREMENTS, SEE SHEET No. C800 ON THE TRENCH DETAIL.

THERE ARE TO BE NO WATER VALVES OR MANHOLES WITHIN THE PAVEMENT, CURB, OR SIDEWALK WITH THE EXCEPTION OF CURB INLETS.

ALL WATERMAIN SERVICE LINES TO TERMINATE 5 FEET BEHIND SIDEWALK AND MARKED WITH A 4" PVC PIPE WITH A PAINTED BLUE TOP.

POSI-CAPS OR EQUIVALENT IS REQUIRED ON ALL WATER VALVE INSTALLATION AND MEGA LUGS MUST BE INSTALLED AT ALL MECHANICAL JOINTS.

ALL DUCTILE IRON WATERMANS SHALL BE BEDDED IN SAND, FROM THE BOTTOM OF THE TRENCH TO 12" ABOVE THE PIPE

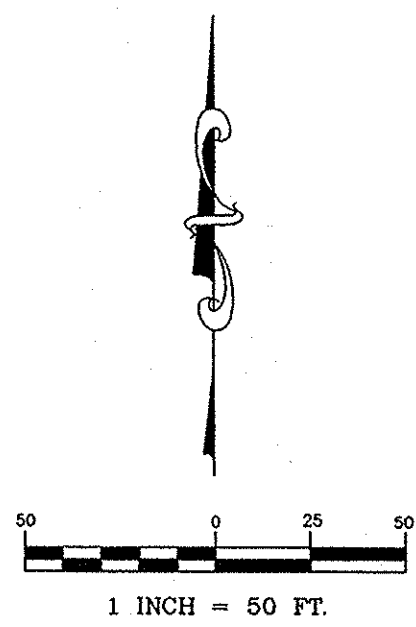
INSTALL WATERMAIN TRACER WIRE WITH ALL WATER MAINS LAID AND BLUE REFLECTOR TAPE MUST BE INSTALLED 12" TO 18" ABOVE ALL WATERMANS LAID,

ALL WATERMANS SHALL BE DUCTILE IRON AND INSTALLED PER THE CITY OF CARMEL SPECIFICATIONS

FULL DEPTH GRANULAR BACKFILL PER CITY STANDARDS SHALL BE PLACED FOR ALL STREET CROSSINGS

FIRE HYDRANT MARKERS TO BE INSTALLED IN THE STREET PAVEMENT PERPENDICULAR TO THE FIRE HYDRANT.

ONLY MUELLER HYDRANTS AND VALVES MAY BE USED.



STOEPPELWERTH
 ALWAYS ON
 7965 East 10th Street, Fishers, IN 46038-2995
 Phone: 317.949.2995 Fax: 317.949.2942

REGISTERED PROFESSIONAL ENGINEER
 No. 19358
 STATE OF INDIANA
 CERTIFIED: 7/20/12
David J. Stoepelwerth

THIS DRAWING IS NOT INTENDED TO BE REPRESENTED AS A RETRACTION OR ORIGINAL BOUNDARY SURVEY. A ROUTE REPORT OR A SURVEYOR LOCATION REPORT.

DATE	MARK	REVISIONS
7/25/13		ASBUILTS
8/27/12		REVISED PER COMMENTS
8/29/12		REVISED PER FAC COMMENTS

DRAWN BY: KRG CHECKED BY: BAH
 SHEET NO. C700
 3 & 4 JOB NO. 55960PUL

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 VILLAGE OF WEST CLAY,
 SECTION 10010-C
 HAMILTON COUNTY, INDIANA
 CLAY TOWNSHIP