

SURVEYOR'S OFFICE

# Hamilton County

*Kenton C. Ward, Surveyor*

*Phone (317) 776-8495*

*Fax (317) 776-9628*

*Suite 188*

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

August 10, 2006

To: Hamilton County Drainage Board

Re: U. G. Mitchner Drain, Orville Keys Reconstruction

Attached is a petition, drainage report and plans for the proposed relocation of the U. G. Mitchner Drain, Orville Keys Arm. The relocation is being proposed by the Town of Westfield and Throgmartin-Henke Development, LLC.

The proposal is to relocate the drain within the right-of-way of 151<sup>st</sup> Street and parcels 08-10-17-00-00-009.000, 08-10-17-00-00-006.000 and 08-10-17-00-00-009.001 owned by Throgmartin-Henke Development, LLC and Webster Properties, LLC as part of the 151<sup>st</sup> Street project done by the Bridgewater Club Development (per plans by Paul I. Cripe, Project 040325-20300 dated June 14, 2006).

The new drain will be between Structures 726, 725, 724, 723, 722, 718, 717, 716, EX 727 to 724, and shall include the proposed open drain and temporary swale across parcels 08-10-17-00-00-009.000, 08-10-17-00-00-009.001 and 08-10-17-00-00-006.000 to the existing culvert structure located on Gray Road, south of 151<sup>st</sup> Street. The open ditch runs from outlet Structure 716 through the detention pond with the temporary swale beginning at the edge of the detention pond and running to the existing culvert structure located under Gray Road.

This line will consist of the following:

15" RCP	83 ft	21" RCP	94 ft	24" RCP	213 ft
36" RCP	423 ft	Open Ditch	745 ft	Temp. Swale	630 ft

The total length of new drain shall be 2,188 feet. The 80 feet of original drain between Sta. 37+40 to 38+20 (Orville Keys Drain) shall be vacated. Vacated also is a lateral between Str. 100 to Str. 201 of the Keys Drain. This will remove 25 feet of 10" tile. This proposal will add an additional 2,083 feet to the drains total length. The existing Orville Keys Drain tile between Sta. 38+20 and 58+07 located on parcels 08-10-17-00-00-009.000, 08-10-17-00-00-009.001 and 08-10-17-00-00-006.000 owned by Throgmartin-Henke Development, LLC and Webster Properties, LLC may be vacated in the future as this site develops.

This project also replaced existing regulated drain for the Orville Keys Arm built with the Bridgewater Section K development. This was detailed in my report to the Board dated August 12, 2005. At that time structures 7903-7902, 7902-7901, and 7901 –EX1 were regulated. This was shown on the plans for Section K by Paul I Cripe, dated May 6, 2005, and having project number 0980516-20540. The sheets were C502 and C701. The storm drain will be replaced with structures 726-725, 725-724, and EX 727-724. Therefore, this project removed 215 feet of 15” RCP and 92 feet of 24” RCP from the Orville Keys Arm developed with Section K.

Because the petitioner is the Town of Westfield the requirement for posting surety in the form of a Performance Bond or Letter of Credit has been waived.

The easement for the new drain will be 15 feet per half and will be located within the 151<sup>st</sup> Street right-of-way with the exception of the open ditch located on the Throgmartin-Henke Development, LLC, parcel for which I recommend that the easement remain 75 feet per half per IC 36-9-27-33 until the tract develops in the future.

I recommend this drain be classified as an urban drain as set out in IC 36-9-27-67 to 69.

This project falls under the requirements as set out in IC 36-9-27-52.0. Therefore, a hearing is required for the petition. I recommend that the Board set a hearing for September 25, 2006.

Sincerely,



Kenton C. Ward, CFM  
Hamilton County Surveyor

KCW/llm



FINDINGS AND ORDER

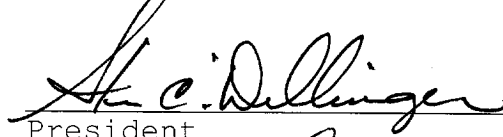
CONCERNING THE PARTIAL VACATION OF THE

**U. G. Mitchner Drain Orville Keys Arm, Sta. 37+40 to Sta. 38+20  
And Structure 100 to Structure 201 Lateral Arm to Main Drain**

On this *25th day of September 2006*, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the **U. G. Mitchner Drain, Orville Keys Arm Sta. 37+40 to Sta. 38+20 and Structure 100 to Structure 201 Lateral arm to Main Drain.**


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 **U. G. Mitchner Drain, Orville Keys Arm.**

HAMILTON COUNTY DRAINAGE BOARD

  
\_\_\_\_\_  
President

  
\_\_\_\_\_  
Member

\_\_\_\_\_  
Member

Attest:   
\_\_\_\_\_  
Susette Mostaugh

STATE OF INDIANA )  
 ) ss:  
COUNTY OF HAMILTON )

BEFORE THE HAMILTON COUNTY  
DRAINAGE BOARD  
NOBLESVILLE, INDIANA

IN THE MATTER OF THE  
RECONSTRUCTION OF THE  
*U. G. Mitchner, Orville Keys Arm Relocation*

FINDINGS AND ORDER FOR RECONSTRUCTION

The matter of the proposed Reconstruction of the *U. G. Mitchner Drain, Orville Keys Arm* came before the Hamilton County Drainage Board for hearing on *September 25, 2006*, 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.

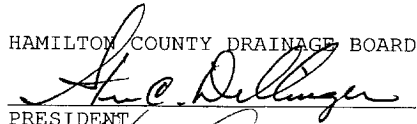
The Board having considered the evidence and objections, upon motion duly made, seconded and unanimously carried, did adopt the Schedule of Assessments as proposed, subject to amendment after inspection of the subject drain as it relates to the lands of any owners which may have been erroneously included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



*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**

**November 4, 2011**

**Re: UG Mitchner Drain, Orville Keys 2006 Reconstruction**

Attached are plans and other information for Orville Keys 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 August 10, 2006. The report was approved by the Board at the hearing held September 25, 2006. (See Drainage Board Minutes Book 9, Pages 427-429) The changes are as follows:

The contractor added 20 feet of 15" to the original Orville Keys tile as it outlets into the new pond. The length of the drain due to the changes described above is now **2208 feet**. It should also be noted that the original Orville Keys drain was removed from Sta. 5+75 to Sta. 6+55, Sta. 11+88 to Sta. **13+03**, and from Str. 100 to 201. Also removed was 95 feet of grass waterway running parallel to the above mentioned tile.

A non-enforcement was not submitted for this project and sureties were not requested as the project was paid for by the City of Westfield.

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

Sincerely,

Kenton C. Ward, CFM  
Hamilton County Surveyor

KCW/slm

HAMILTON COUNTY DRAINAGE BOARD  
NOBLESVILLE, INDIANA

IN RE: U.G. Mitchner )  
Hamilton County, Indiana )

PETITION FOR RELOCATION AND RECONSTRUCTION

Town of Westfield (Cost to be paid for by Throgmartin-Henke) (hereinafter "Petitioner"),  
hereby petitions the Hamilton County Drainage Board for authority to relocate and improve a  
section of the U.G. Mitchner Drain, and in support of  
said petition advises the Board that:

1. Petitioner owns real estate through which a portion of the U.G. Mitchner 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 U.G. Mitchner 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 U.G. Mitchner Drain, without cost to other property owners on the watershed of the U.G. Mitchner Drain.
5. Proposed relocation and reconstruction will not adversely affect other land owners within the drainage shed.
6. Petitioner requests approval of the proposed relocation and reconstruction under IC 36-9-27-52.5.

WHEREFORE, Petitioner requests that an Order issued from the Hamilton County Drainage Board authorizing relocation and reconstruction of the U.G. Mitchner Drain, in conformance with applicable law and plans and specifications on file with the Hamilton County Surveyor.

Renee L. Goff  
Signed

Renee L. Goff, P.E., Town of Westfield  
Printed

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

**IN THE MATTER OF U. G. Mitchner Drain, Orville Keys  
Reconstruction**

NOTICE

Notice is hereby given that the Hamilton County Drainage Board at its regular meeting **September 25, 2006** adopted the reconstruction report of the Surveyor and the Amended Schedule of damages and assessments including annual assessment for periodic maintenance, finding that the costs, damages and expense of the proposed improvement would be less than the benefits which will result to the owner of lands benefited thereby.

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

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

HAMILTON COUNTY DRAINAGE BOARD

BY: Steven C. Dillinger  
PRESIDENT

ATTEST: Lynette Mosbaugh  
EXECUTIVE SECRETARY



BEFORE THE HAMILTON COUNTY DRAINAGE BOARD  
IN THE MATTER OF

***U. G. Mitchner Drain, Orville Keys Reconstruction***

NOTICE

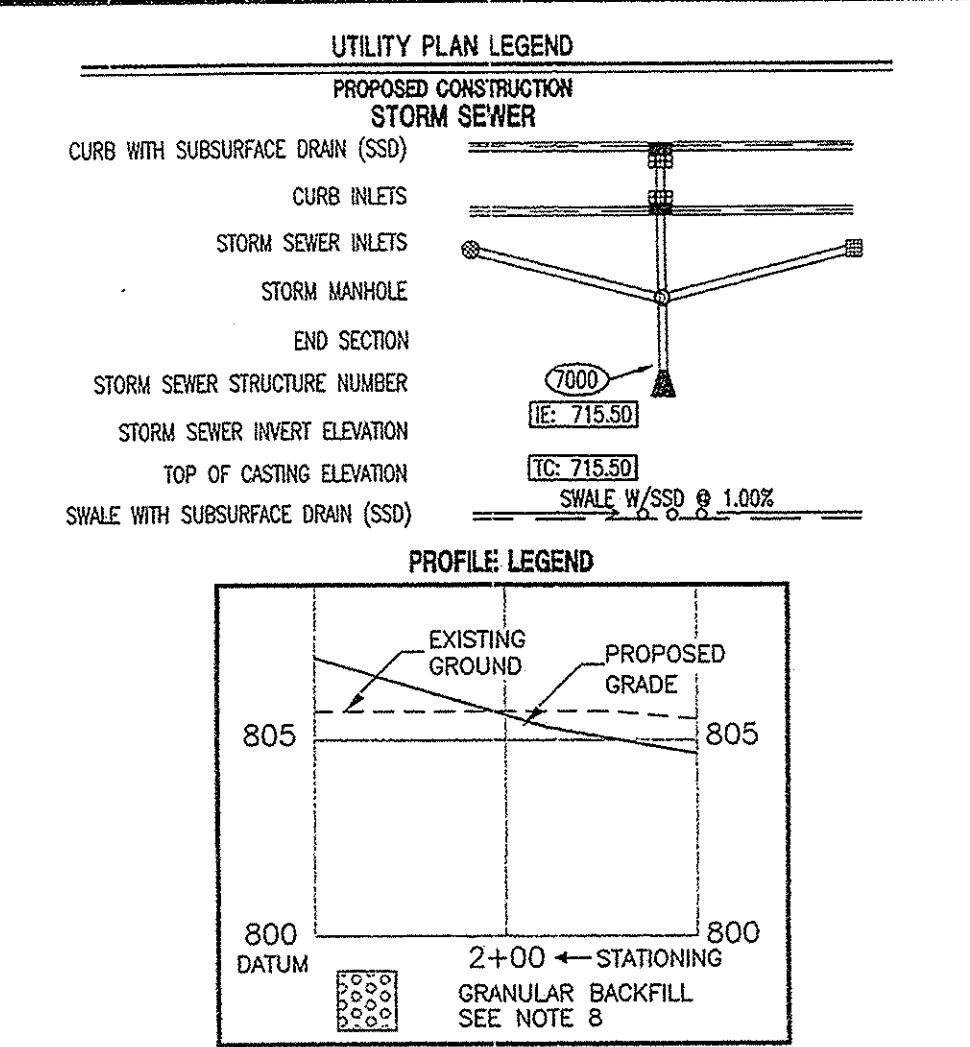
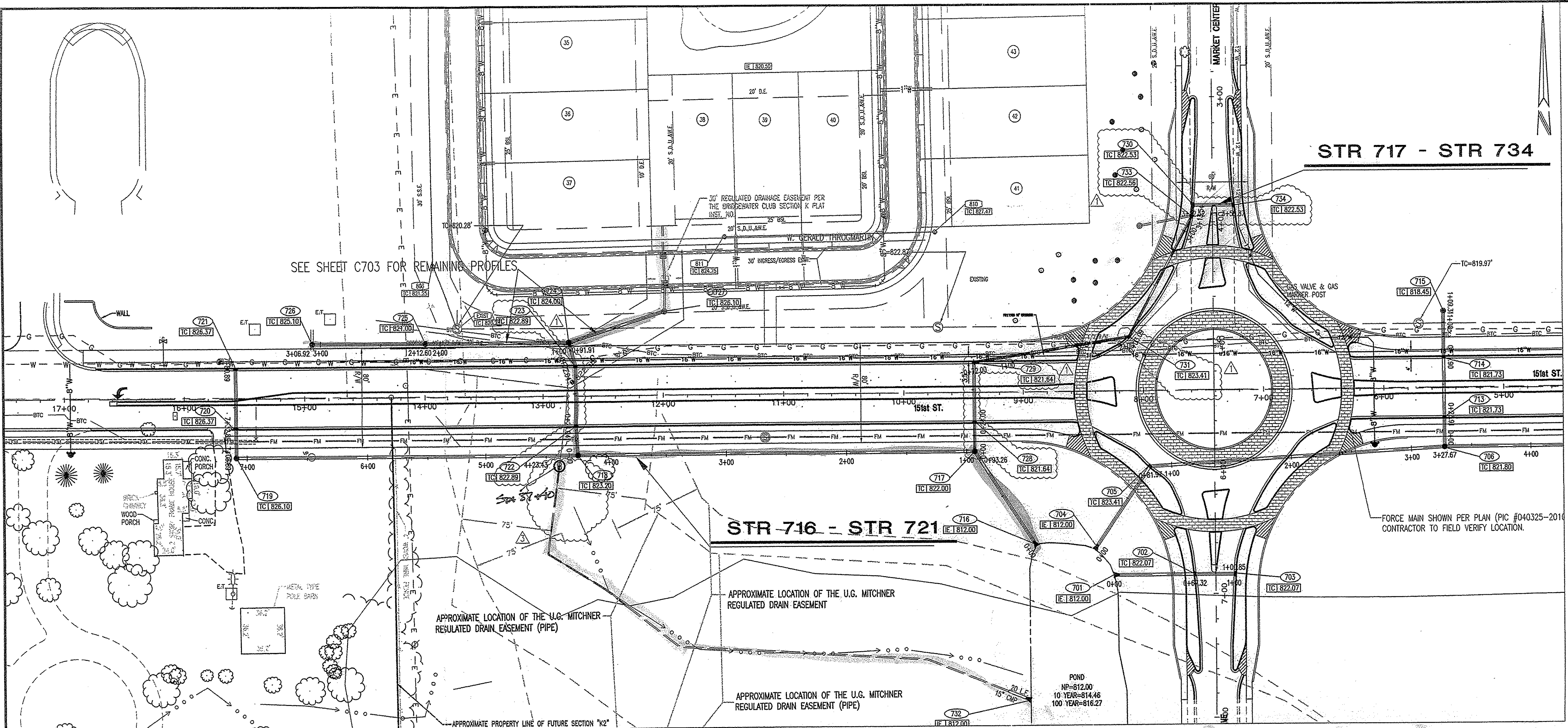
To Whom It May Concern and: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Notice is hereby given of the hearing of the Hamilton County Drainage Board concerning the reconstruction of the **U. G. Mitchner Drain, Orville Keys Reconstruction** on **September 25, 2006**, 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



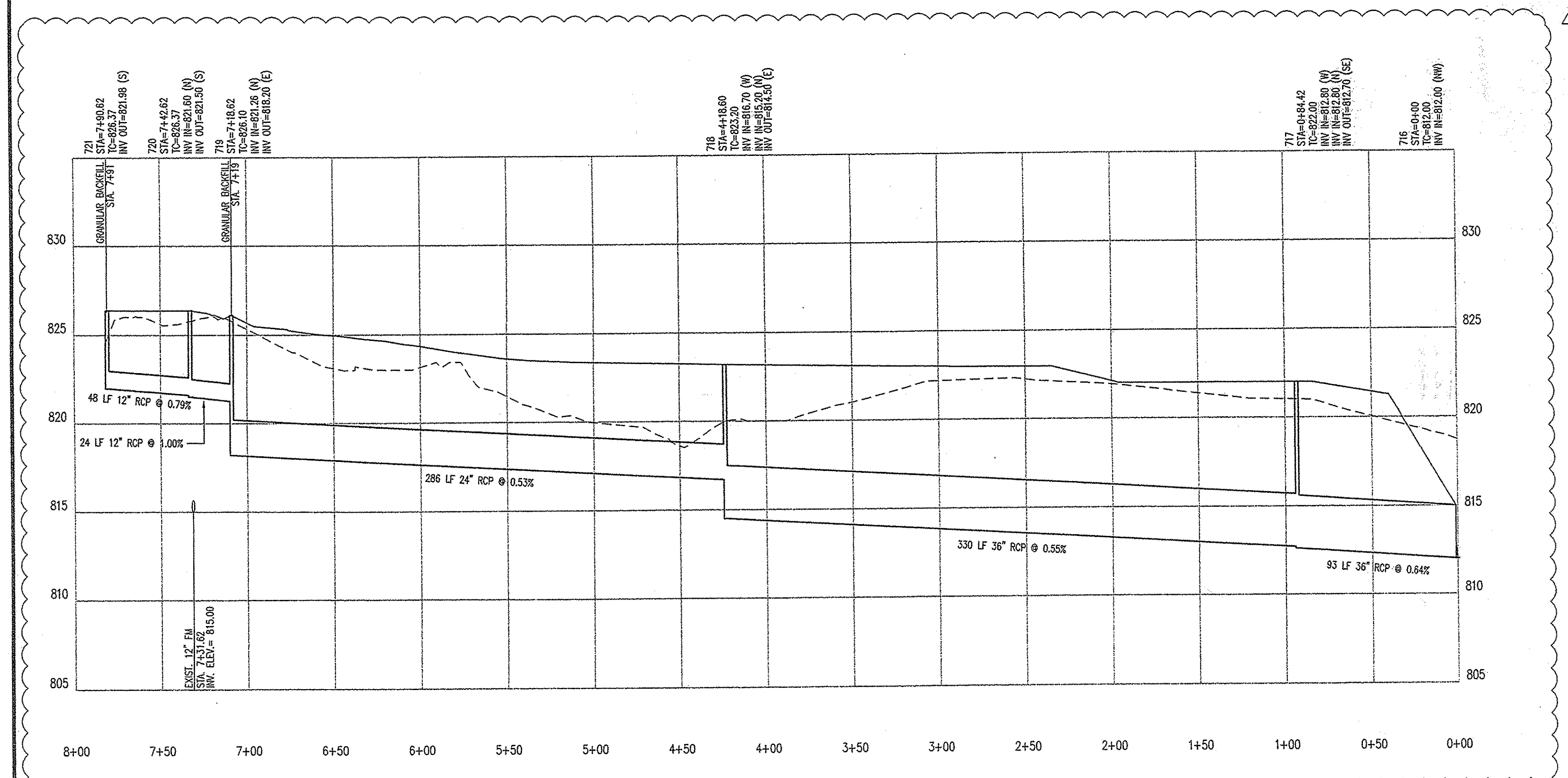
- STORM SEWER PLAN AND PROFILE NOTES:**
- OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS; FINAL RULE 29 CFR PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH.
  - IN ADDITION, EXCAVATIONS EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRE THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER.
  - ALL STRUCTURES SHALL HAVE CASTINGS, JOINTS, LIFT RINGS, STEPS AND PIPE CONNECTIONS WELL GROUTED, TROWELED SMOOTH AND BRUSH FINISHED.
  - ALL STRUCTURES (IE: MANHOLES, INLETS) SHALL HAVE POURED FLOW LINES AND BENCH WALLS. THE FLOW LINES AND BENCHWALLS SHALL BE TROWELED SMOOTH AND BRUSH FINISHED.
  - FIELD ADJUSTMENTS OF TOP OF CASTING (T.C.) OF STRUCTURES MAY BE REQUIRED TO MEET FIELD CONDITIONS. ADJUSTMENTS EXCEEDING FIVE TENTHS (0.5) OF A FOOT MUST BE APPROVED BY THE ENGINEER TO DETERMINE THE INTEGRITY OF THE STRUCTURE. AT NO COST TO THE OWNER.
  - STORM STRUCTURES WITH INLET CASTINGS SHALL BE SET TO MAINTAIN A POSITIVE DRAINAGE FLOW INTO THE STRUCTURE.
  - STORM PIPE INVERTS AT OUTLET STRUCTURES (IE: END SECTIONS), AND PIPE LENGTHS MAY REQUIRE FIELD ADJUSTMENTS TO MEET ACTUAL FIELD CONDITIONS.
  - FULL DEPTH GRANULAR BACKFILL SHALL BE REQUIRED UNDER AND WITHIN (5) FEET OF ALL PAVED AREAS, INCLUDING CURBS, EDGE OF PAVEMENT, AND SIDEWALKS.
  - SEE SECTION 0271 FOR STORM SEWER SPECIFICATIONS ON SHEET C903
  - PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE AND INCLUDE END SECTIONS.
  - TOP OF CASTING (T.C.) SHALL INDICATE THE ELEVATION THAT WATER WOULD ENTER A STRUCTURE. WHEN A STRUCTURE IS NOT A CURB INLET, T.C. SHALL INDICATE TOP OF CURB WHEN STRUCTURE IS A CURB INLET.
  - ANY DISCREPANCIES OR CONFLICTS WHICH BECOME APPARENT BEFORE OR DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER PRIOR TO CONSTRUCTION SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
- UTILITY PLAN NOTES:**
- WATER LINES THROUGHOUT THE PROJECT SHALL BE INSTALLED WITH AT LEAST 48 INCHES OF COVER TO PROVIDE PROTECTION FROM FREEZING.
  - LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR IS TO FIELD VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS PRIOR TO CONSTRUCTION.
  - PLASTIC WATER LINES ARE TO BEAR THE NSF SEAL OF APPROVAL AND MEET COMMERCIAL STANDARD NO. 256-3, PRODUCT STANDARD 22-70, OR ASTM D 2441.
  - SEE SHEET C704 FOR STORM SEWER DETAILS.
  - WATER AND SEWER CROSSINGS AND SEPARATIONS SHALL BE IN ACCORDANCE WITH TEN STATE STANDARDS AND LOCAL CODES.
  - MAINTAIN MINIMUM COVER OF 4.5 FEET IS REQUIRED FOR ALL FORCE MAIN.

Revision	Date	Description
1	06-11-05	COMMENTS
2	06-14-05	SURVEYORS COMMENTS
3	07-07-05	SURVEYORS COMMENTS
4	07-10-05	REVISION FOR HAMCO SURVEYOR OFFICE
5	08-05-05	REVISION FOR HAMCO SURVEYOR OFFICE
6	08-12-05	WESTFIELD DPW COMMENTS DATED 08-09-05

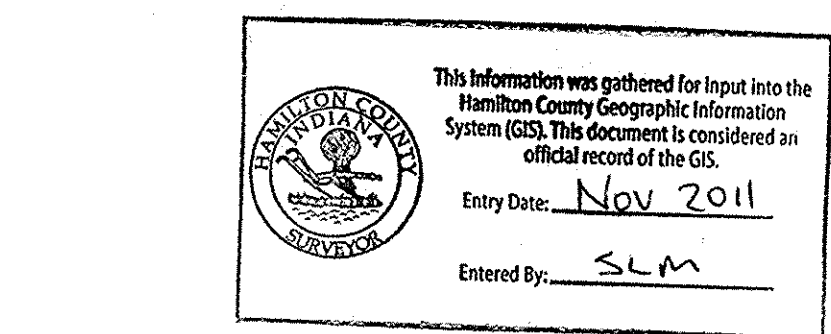
ARCHITECTURE  
LANDSCAPE ARCHITECTURE  
LAND PLANNING  
LAND SURVEYING  
SEWER/STORMWATER ENGINEERS

7172 GRAHAM ROAD  
INDIANAPOLIS, INDIANA 46250  
(317) 842-6777 FAX (317) 841-4796  
E-Mail: crpe@crpe.biz

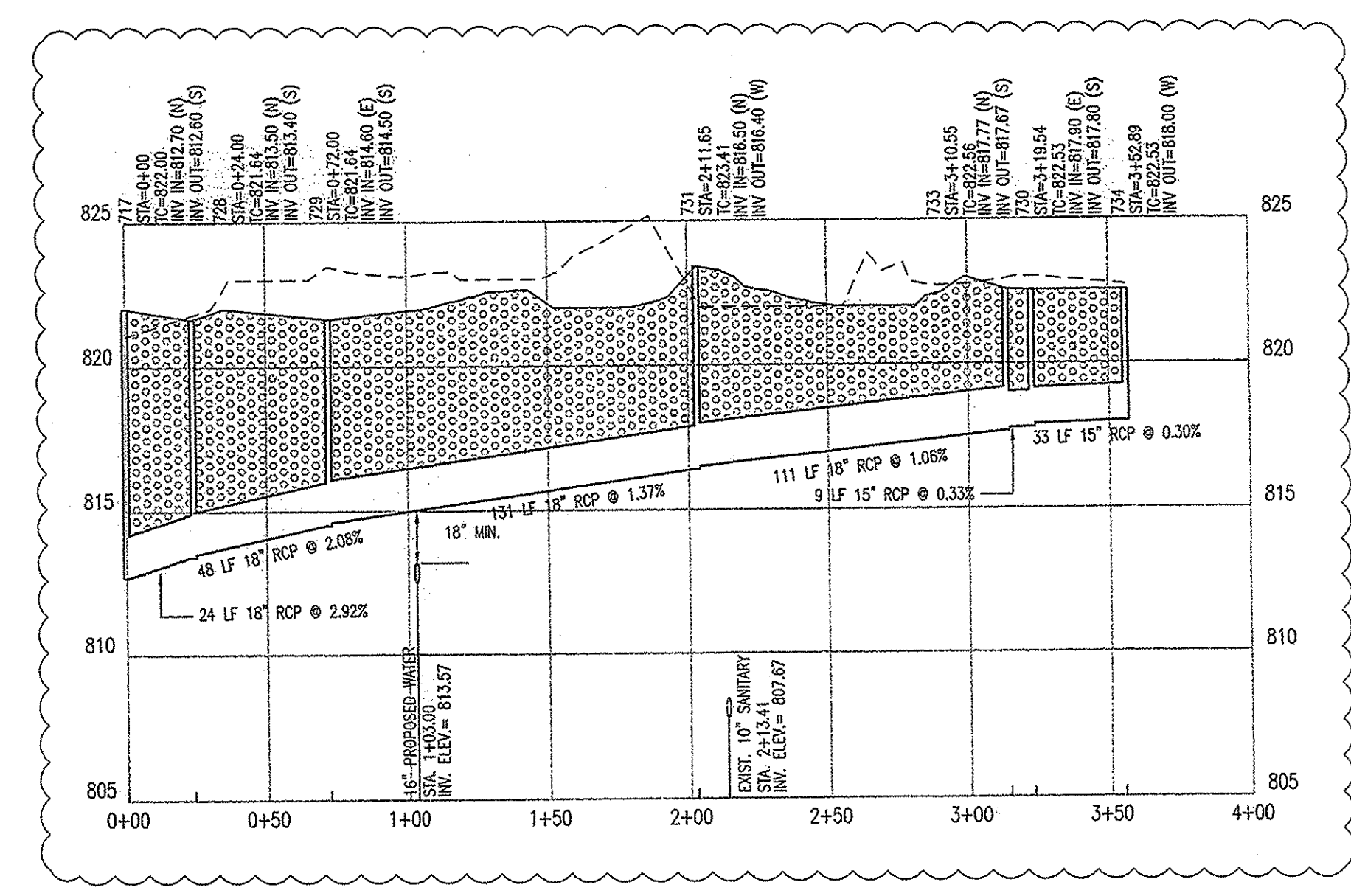
**CRPE**  
Architects & Engineers



**STR 716 - STR 721**  
HOR. SCALE: 1" = 50'  
VERT. SCALE: 1" = 5'



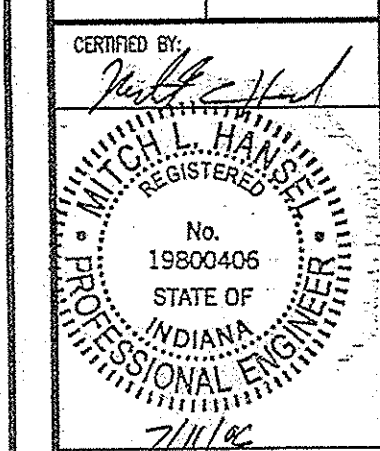
**CAUTION:**  
LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, valves, vents, and marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.



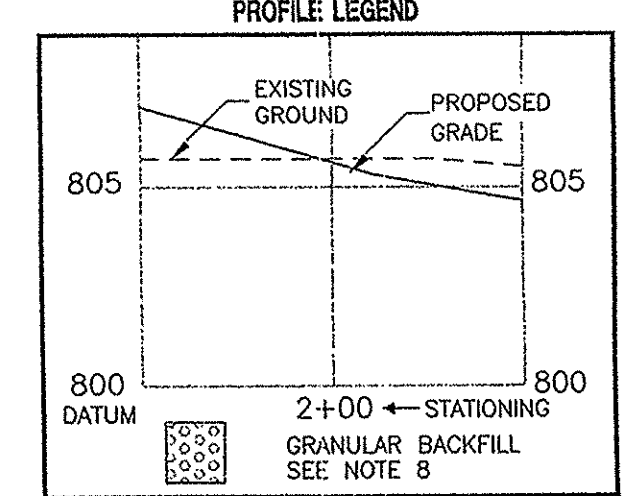
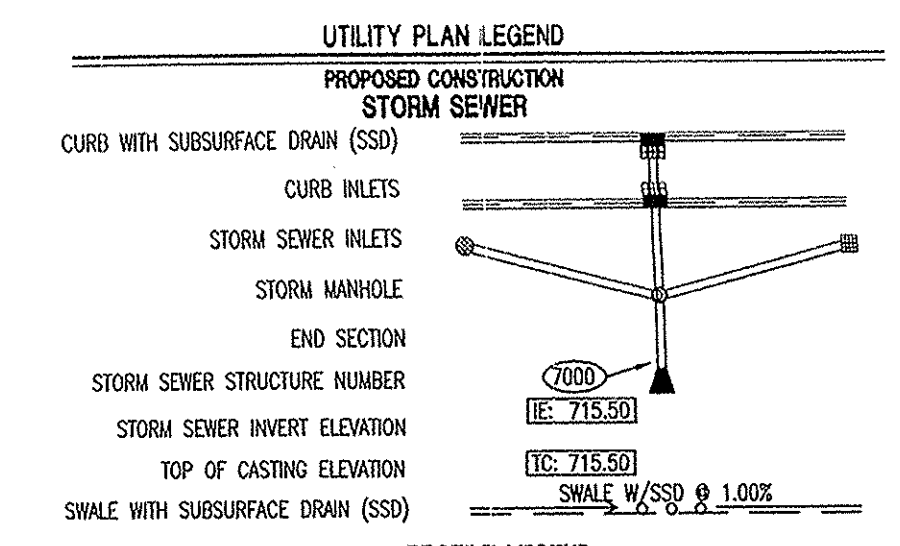
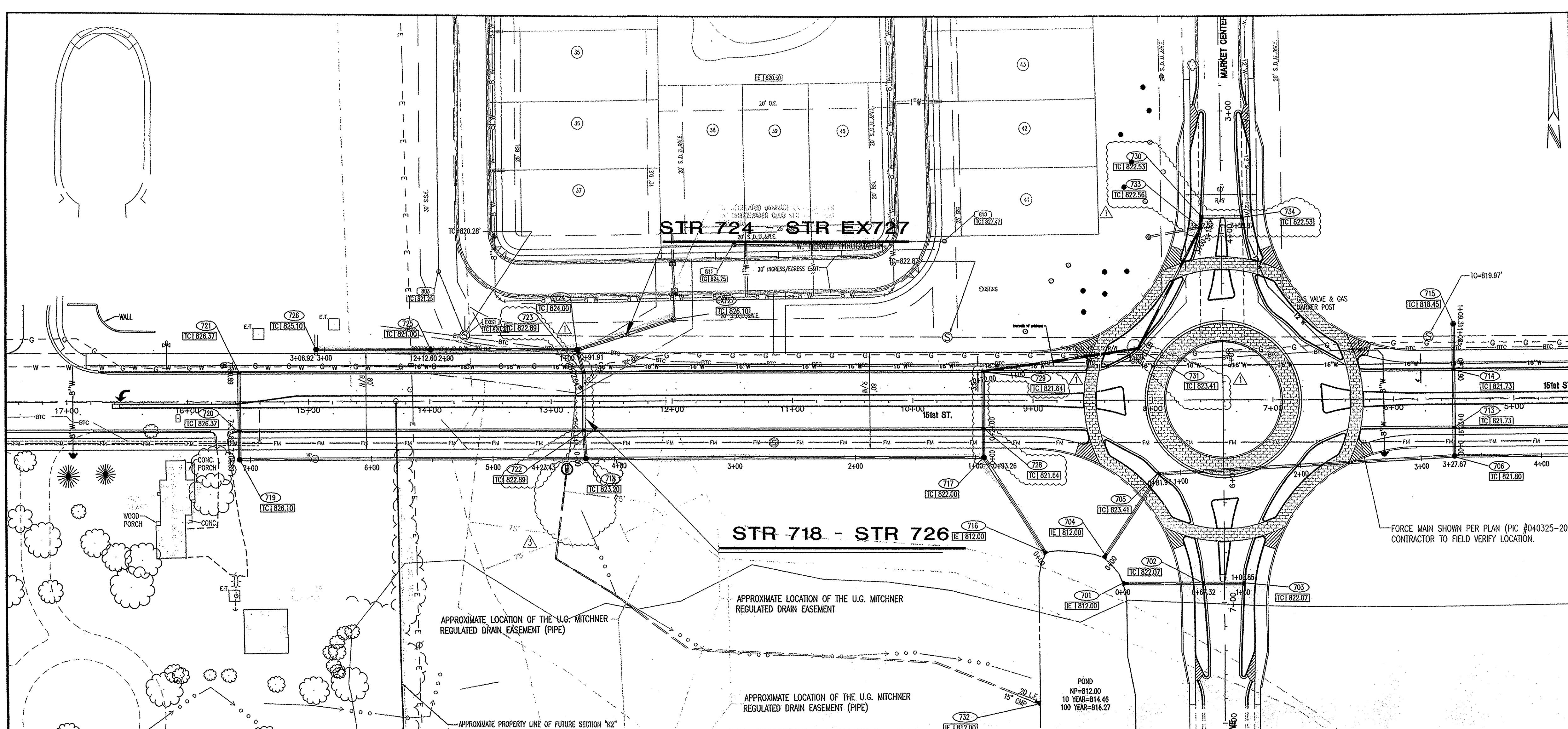
**STR 717 - STR 734**  
HOR. SCALE: 1" = 50'  
VERT. SCALE: 1" = 5'

**FILED**  
AUG - 4 2006  
OFFICE OF HAMILTON COUNTY SURVEYOR

**STORM PLAN AND PROFILE**  
151ST STREET CLUB  
THE BRIDGEWATER CLUB  
THROGMARTIN-HENKE DEVELOPMENT, LLP  
3535 EAST 161ST STREET  
WESTFIELD, IN 46074  
PH. (317) 867-4653



Drawn By: K. NIXE / P. PEDER  
Checked By: M. HANSEL  
Quality Assurance: T. SCHELLENBERGER  
Scale: 0  
Sheet: **C702**  
Date: 06-14-06  
Project Number: 040325-20300



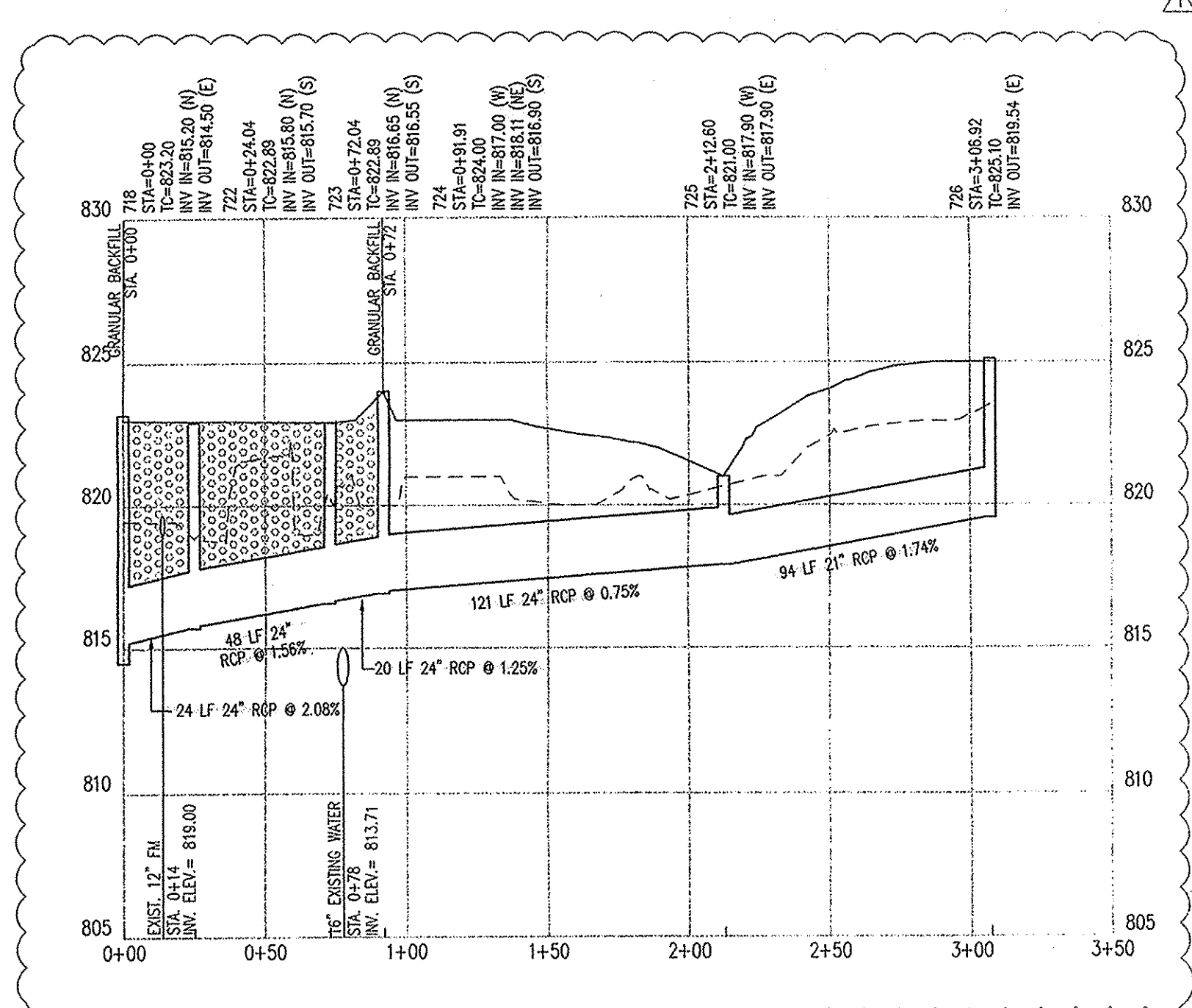
- STORM SEWER PLAN AND PROFILE NOTES:**
- OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS; FIVE FEET DEPTH PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH.
  - IN ADDITION, EXCAVATIONS EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRE THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER.
  - ALL STRUCTURES SHALL HAVE CASTINGS, JOINTS, LIFT RINGS, STEPS AND PIPE CONNECTIONS WELL GROUNDED, TROWELED SMOOTH AND BRUSH FINISHED.
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  - FULL DEPTH GRANULAR BACKFILL SHALL BE REQUIRED UNDER AND WITHIN (5) FEET OF ALL PAVED AREAS, INCLUDING CURBS, EDGE OF PAVEMENT, AND SIDEWALKS.
  - SEE SECTION 02721 FOR STORM SEWERAGE SPECIFICATIONS ON SHEET C803
  - PIPES LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE AND INCLUDE END SECTIONS.
  - TOP OF CASTING (T.C.) SHALL INDICATE THE ELEVATION THAT WATER WOULD ENTER A STRUCTURE. WHEN A STRUCTURE IS NOT A CURB INLET, T.C. SHALL INDICATE TOP OF CURB WHEN STRUCTURE IS A CURB INLET.
  - ANY DISCREPANCIES OR CONFLICTS WHICH BECOME APPARENT BEFORE OR DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER PRIOR TO CONSTRUCTION SO THAT CLARIFICATION OR REVISION MAY OCCUR.

- UTILITY PLAN NOTES:**
- WATER LINES THROUGHOUT THE PROJECT SHALL BE INSTALLED WITH AT LEAST 48 INCHES OF COVER TO PROVIDE PROTECTION FROM FREEZING.
  - LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR IS TO FIELD VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS PRIOR TO CONSTRUCTION.
  - PLASTIC WATER LINES ARE TO BEAR THE NSF SEAL OF APPROVAL AND MEET COMMERCIAL STANDARD NO. 256-3, PRODUCT STANDARD 22-70, OR ASTM D 2441.
  - SEE SHEET C704 FOR STORM SEWER DETAILS.
  - WATER AND SEWER CROSSINGS AND SEPARATIONS SHALL BE IN ACCORDANCE WITH TEN STATE STANDARDS\* AND LOCAL CODES.
  - MAINTAIN MINIMUM COVER OF 4.5 FEET IS REQUIRED FOR ALL FORCE MAIN.

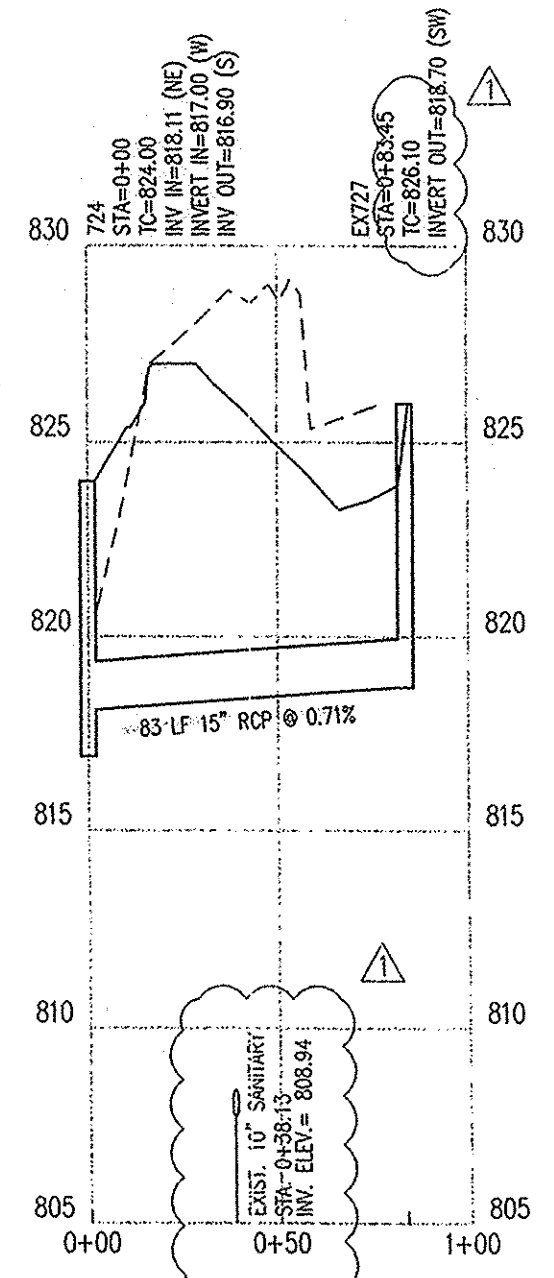
"HOLEY MOLEY" SAYS CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU DIG... IT'S THE LAW!

**1-800-382-5544**  
CALL TOLL FREE  
**1-800-428-5200**  
FOR CALLS OUTSIDE OF INDIANA

**CAUTION**  
LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, and marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.



**STR 718 - STR 726**  
HOR. SCALE: 1" = 50'  
VERT. SCALE: 1" = 5'



**STR 724 - STR EX727**  
HOR. SCALE: 1" = 50'  
VERT. SCALE: 1" = 5'

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: Nov 2011  
Entered By: SLM

Revision	Mark	Description	Date
06-01-06		COMMENTS	
06-14-06		SURVEYORS COMMENTS	
07-10-06		SURVEYORS COMMENTS	
08-02-06		REVISION PER HANCO SURVEYOR OFFICE	
08-12-06		REVISION PER HANCO SURVEYOR OFFICE	

ARCHITECTURE  
CIVIL ENGINEERS  
LAND SURVEYING  
LAND PLANNING  
INSPIRATION ENGINEERS  
GIS

7172 GRAHAM ROAD  
INDIANAPOLIS, INDIANA 46250  
(317) 842-8777 FAX (317) 841-4798  
E-Mail: crpe@crpe.biz

Architects & Engineers

**STORM PLAN AND PROFILE**  
**151st STREET CLUB**  
**THE BRIDGEWATER CLUB**  
**THROGMARTIN-HENKE DEVELOPMENT, LLP**  
3535 EAST 161ST STREET  
WESTFIELD, IN 46074  
PH. (317) 867-4653

CERTIFIED BY:

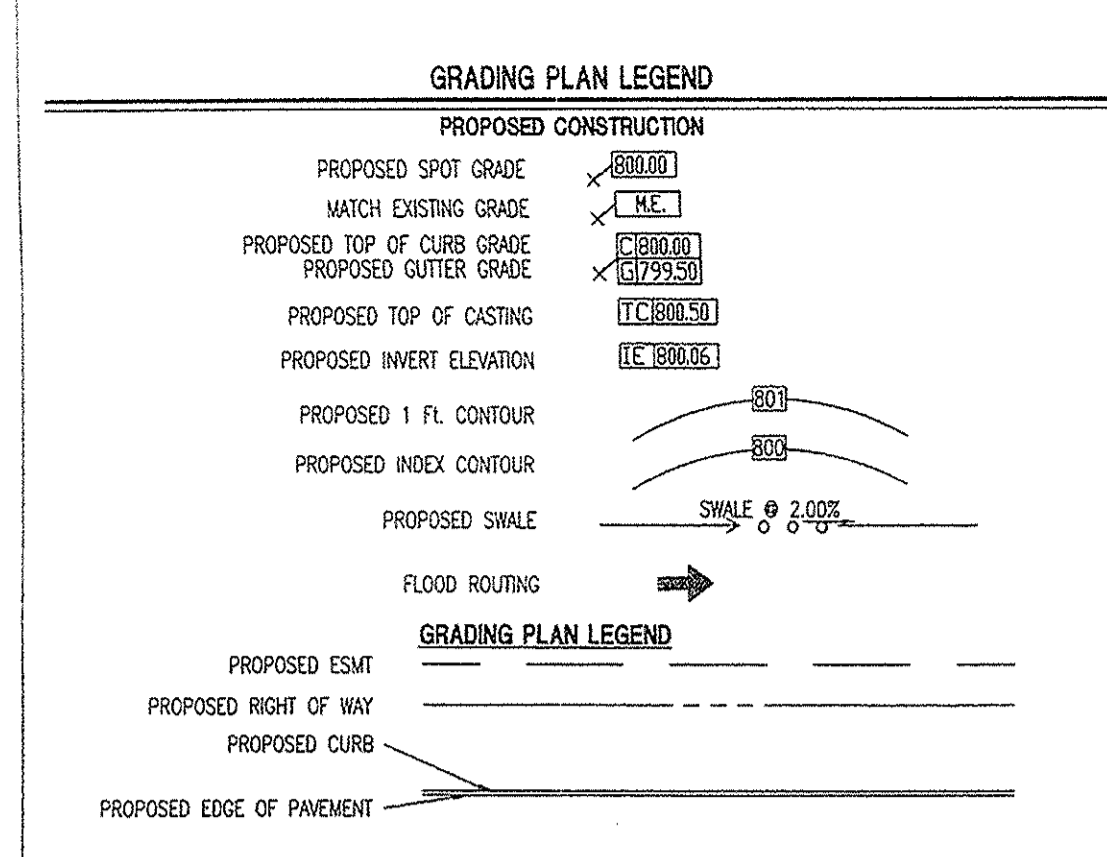
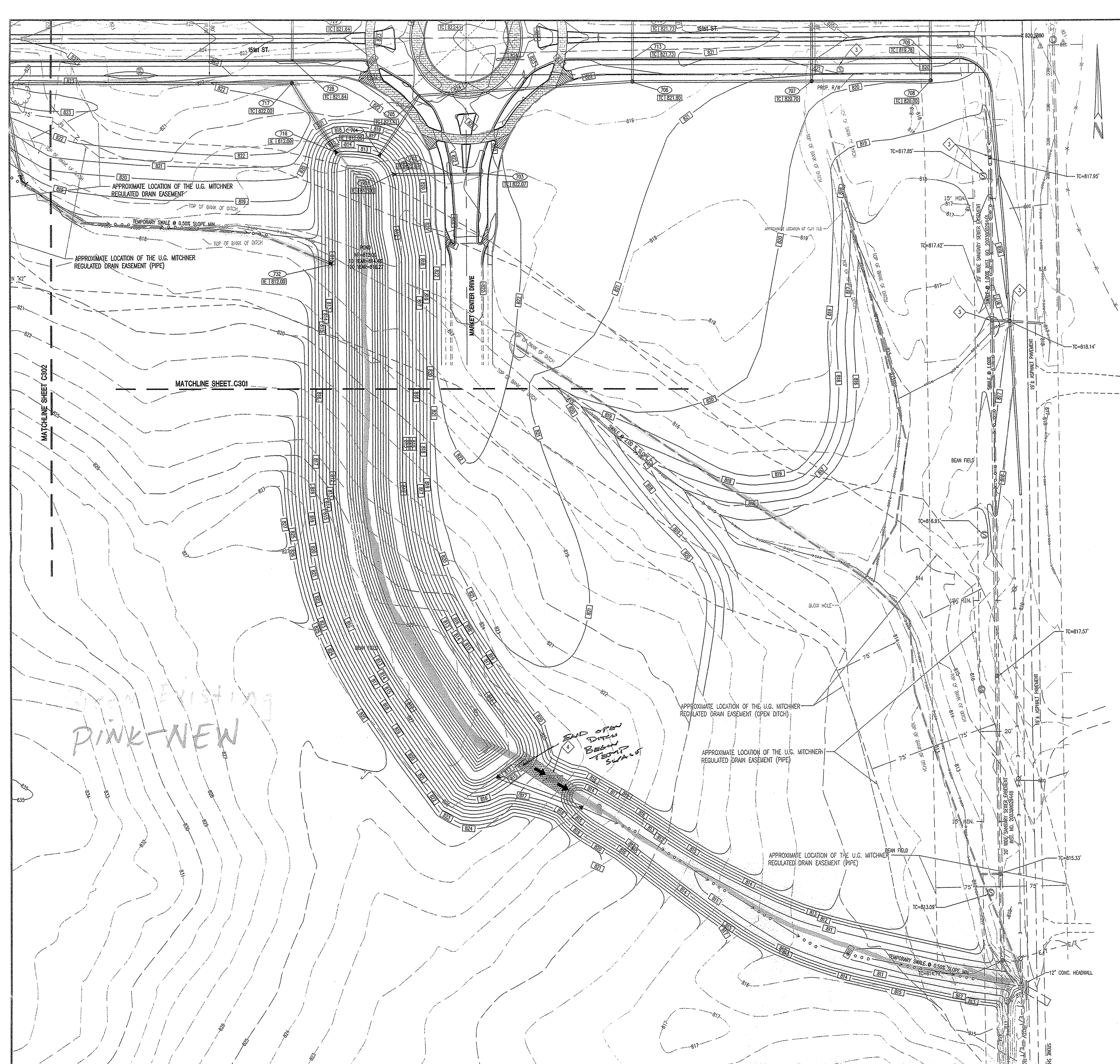
**M. CH. HANSEL**  
REGISTERED  
No. 19800406  
STATE OF INDIANA  
PROFESSIONAL ENGINEER

Drawn By: K. NIXE / P. PEKER  
Checked By: M. HANSEL  
Quality Assurance: T. SCHELLENBERGER

Scale: 1" = 50'

Sheet: **C703**

Date: 06-14-06  
Project Number: 040325-20300



- ### GRADING NOTES:
- ALL GRADES AT BOUNDARY SHALL MEET EXISTING GRADES.
  - ALL TOPSOIL SHALL BE PLACED IN NONSTRUCTURAL FILL AREAS. UPON COMPLETION OF MASS EARTHWORK, TOPSOIL SHALL BE SPREAD TO A DEPTH OF FOUR TO SIX (4 TO 6) INCHES IN AREAS TO BE SEEDDED SUCH AS LAKE SLOPES, MOUND AREAS, AREAS BETWEEN CURBS AND CLEARING LIMITS, AND ALL DISTURBED AREAS OUTSIDE OF BUILDINGS AND PARKING AREAS.
  - STRAW BALE DAMS, SEDIMENT PITS AND SILT FENCES SHALL BE UTILIZED TO CONTROL EROSION. SEE EROSION CONTROL PLAN FOR ADDITIONAL INFORMATION.
  - EXISTING UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATIONS PRIOR TO MAJOR EARTHWORK, WITHIN THE PROPOSED CONSTRUCTION LIMITS.
  - SEE STREET PLAN & PROFILE SHEET FOR ADDITIONAL GRADES ON STREET.
  - THE INTENT OF THESE PLANS IS TO USE ALL EXCESS FILL MATERIAL ONSITE. BORROW PITS IN NONSTRUCTURAL FILL AREAS MAY BE UTILIZED TO OBTAIN SUITABLE FILL MATERIAL AND TO DISPOSE OF TOPSOIL.
  - STREETS DESIGNATED FOR FILL SHALL BE CONSTRUCTED OF SUITABLE FILL MATERIAL AND COMPACTED PER SPECIFICATIONS. ALL FILL AREAS FOR STREETS ARE TO BE STRIPPED STRIPPED OF TOPSOIL PRIOR TO PLACEMENT OF FILL.
  - CONTRACTOR SHALL PRESERVE EXISTING TREES WHEREVER POSSIBLE. OWNER AND OWNER'S REPRESENTATIVE SHALL BE CONSULTED FOR CLEARING LIMITS. CLEARING LIMITS SHALL CONSIST OF ALL TREES WITHIN STREET RIGHT-OF-WAYS, UTILITY EASEMENT LIMITS AND CUT/FILL AREAS.
  - EARTHWORK BALANCE - THE CONTRACTOR SHALL CONFIRM ALL EARTHWORK QUANTITIES PRIOR TO START OF CONSTRUCTION. IF AN EXCESS OR SHORTAGE OF EARTH IS ENCOUNTERED, THE CONTRACTOR SHALL CONFIRM WITH THE OWNER AND THE ENGINEER THE REQUIREMENTS FOR STOCKPILING, REMOVAL OR IMPORTING OF EARTH.
  - MINOR ADJUSTMENTS TO THE GRADES MAY BE REQUIRED TO OBTAIN EARTHWORK BALANCES WHEN EXCESS MATERIAL OR SHORTAGES ARE ENCOUNTERED.
  - SPOT ELEVATIONS - IF DURING THE CONSTRUCTION OR SURVEY LAYOUT PROCESS IT IS DETERMINED THAT THERE ARE INSUFFICIENT SPOT ELEVATIONS TO PROPERLY CONSTRUCT THE PROJECT OR THE DESIGN GRADES APPEAR TO BE TOO STEEP OR FLAT FOR ONSITE CONDITIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY TO ADJUST OR ADD ADDITIONAL ELEVATIONS AS REQUIRED.
  - ANY DISCREPANCIES OR CONFLICTS WHICH BECOME APPARENT BEFORE OR DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER PRIOR TO CONSTRUCTION SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.

KEY NOTE	DESCRIPTION
1	CONTRACTOR TO VERIFY LOCATION AND SIZE OF EXISTING FARM TILE. INSTALL PIPE OUTLET ACCORDING TO DETAIL. (SEE DETAIL 0-1)
2	GROUT TILE AT THIS LOCATION.
3	ADJUST CASTING TO PROPOSED GRADE.
4	EMERGENCY SPILLWAY (SEE DETAIL ST-86)

This information was gathered for input into the Hamilton County Geographic Information System (GIS). This document is considered an official record of the GIS.

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"HOLY MULEY" SAYS CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU DIG. IT'S THE LAW!

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**CAUTION**

LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (INCLUDING, BUT NOT LIMITED TO, MANHOLES, INLETS, VOTES, AND MARKS MADE UPON THE GROUND BY OTHERS) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

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Scale: 1" = 50'  
Sheet: **C303**  
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