

Drain: WR FERTIG Drain #: 176
Improvement/Arm: CARMEL SCIENCE & TECHNOLOGY PARK
Operator: J. LIVINGSTON Date: 12-15-03
Drain Classification: Urban/Rural Year Installed: 1989

GIS Drain Input Checklist

- Pull Source Documents for Scanning JWJ
- Digitize & Attribute Tile Drains _____
- Digitize & Attribute Storm Drains JWJ
- Digitize & Attribute SSD _____
- Digitize & Attribute Open Ditch JWJ
- Stamp Plans JWJ
- Sum drain lengths & Validate JWJ
- Enter Improvements into Posse JWJ
- Enter Drain Age into Posse _____
- Sum drain length for Watershed in Posse _____
- Check Database entries for errors JWJ

**Gasb 34 Footages for Historical Cost
Drain Length Log**

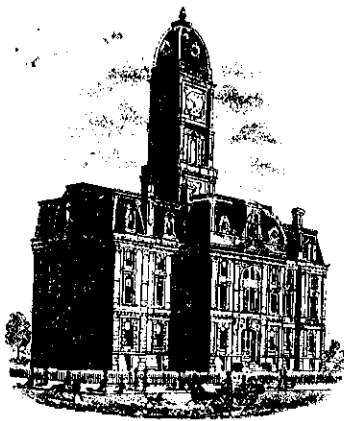
Drain-Improvement: WR FERTIG - CARMEL SCIENCE & TECHNOLOGY PARK

| Drain Type: | Size: | Length () | Length (DB Query) | Length Reconcile | If Applicable | |
|-------------|-------|---------------|----------------------|---------------------|---------------|-------|
| | | | | | Price: | Cost: |
| CMP | 12" | 25' | 0' | -25' | | |
| RCP | 12" | 130' | 40' | -90' | | |
| | 15" | 194' | 194' | | | |
| | 18" | 183' | 183' | | | |
| | 30" | 783' | 783' | | | |
| | 36" | 387' | 387' | | | |
| | 42" | 878' | 878' | | | |
| | 54" | 2332' | 2332' | | | |
| PVC | 12" | 235' | 235' | | | |
| OPEN DITCH | — | 980' | 460' | -520' | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Sum: 6127' 5492' -635' \$108408.00

Final Report: 6127'

Comments:
6012' IS THE LENGTH OF THE DRAIN AS ^{ORIGINALLY} INSTALLED. 520' OF OPEN DITCH WAS RECONSTRUCTED (LUNSFORD RELOCATION -1999). 90' OF 12" RCP & 25' OF 12" CMP WERE ERRONEOUSLY INCLUDED IN THE FINAL REPORT FOR THE CARMEL SCIENCE & TECHNOLOGY PARK ARM. THE REPORTED DRAIN LENGTH OF 6127' MINUS THE 115' OF ERRONEOUSLY INCLUDED DRAIN EQUALS 6012.'



SURVEYOR'S OFFICE
Hamilton County

Kenton C. Ward, Surveyor

776-9626

Noblesville, Ind. 46060 February 18, 1986

TO: Hamilton County Drainage Board

RE: W.R. Fertig Drain

Attached are plans, calculations and a request to approve the final plans of the relocation of the W.R. Fertig Drain. The approval of the preliminary relocation and reconstruction plans was done during a public hearing on August 11, 1983. The drain to be part of the regulated drain system is shown in red on the attached plans cover sheet. Also shown on this sheet is the portion to be maintained by the property owners association in blue and the City of Carmel in brown and the existing regulated drain in green.

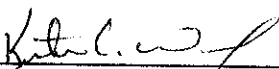
The property owners association will have the responsibility of maintaining the five (5) lakes or retention areas and the outlets for Lakes 1, 4 and 5. The City of Carmel will have the responsibility of maintaining the storm sewer system for street drainage. The subsurface drains along the streets will also be maintained by Carmel.

The regulated drain will be between the following structures: 639, 640, 637, 638, 635, 636, 514, 515, 516, 517, 504, 505, 506, 507, 508, 560, 561, 562, 563, 564, 565, 625, 627, 629, 630, 631, 632, 633, 634, and 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554 and 555. Not shown on the cover sheet is the clearing of obstructions and trees in the open ditch from Guilford Road to the Railroad as shown on Sheet three (3). Shown on the cover sheet, but not listed above is a 235 foot length of 12" PVC connecting existing Arm #2 to STR. 555. This is shown on sheet three (3) also. Sheet three (3) also has the location of an open ditch running from Meridian Street to STR 508, which is to be part of the regulated drain.

The drainage facilities will be constructed in Phases as shown on page fifteen (15) of the overall plan discussion. The drain shall be inspected, approved and accepted at the completion of each phase. The continuation of the drain from the Welch property to Guilford Road and the clearing of the open drain between Guilford Road and the railroad will be in the first phase.

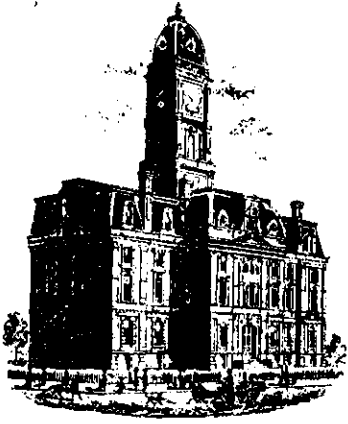
I have reviewed the plans and calculations and believe it to conform to the requirements set for this drain and what was approved earlier. Therefore, I recommend the Board's approval of the final construction plans.

Sincerely,



Kenton C. Ward
Hamilton County Surveyor

KCW/no



SURVEYOR'S OFFICE
Hamilton County

Kenton C. Ward, Surveyor

Phone (317) 776-8495

Fax (317) 776-9628

Suite 146

One Hamilton County Square

Noblesville, Indiana 46060-2230

To: Hamilton County Drainage Board

Re: **W. R. Fertig Drain - Carmel Science
& Technology Park Arm**

Attached are as-builts, certificate of completion & compliance, and other information for Carmel Science & Technology Park. 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 February 18, 1996. The lengths of pipe are as follows: 12" CMP - 25' feet, 12" RCP - 130' feet, 15" RCP - 194' feet, 18" RCP - 183' feet, 30" RCP - 783' feet, 36" RCP - 387' feet, 42" RCP - 878' feet, 54" RCP - 2332' feet, open ditch - 980' feet, 12" PVC - 235' feet. Arms 1 & 2 were vacated along with the main Fertig drain from Sta 47 + 00 to Sta 65 + 75 this totaled 5,240 feet. The Carmel Science & Technology Park had a total length of 6,127 feet.

The net additional length of the drain due to the changes described above is now **887 feet.**

The non-enforcement was approved by the Board at its meeting on February 18, 1986.

The bond or letter of credit from Fidelity Bank & Trust, number 9584, dated April 4, 1989, in the amount of \$108,408.00, has expired.

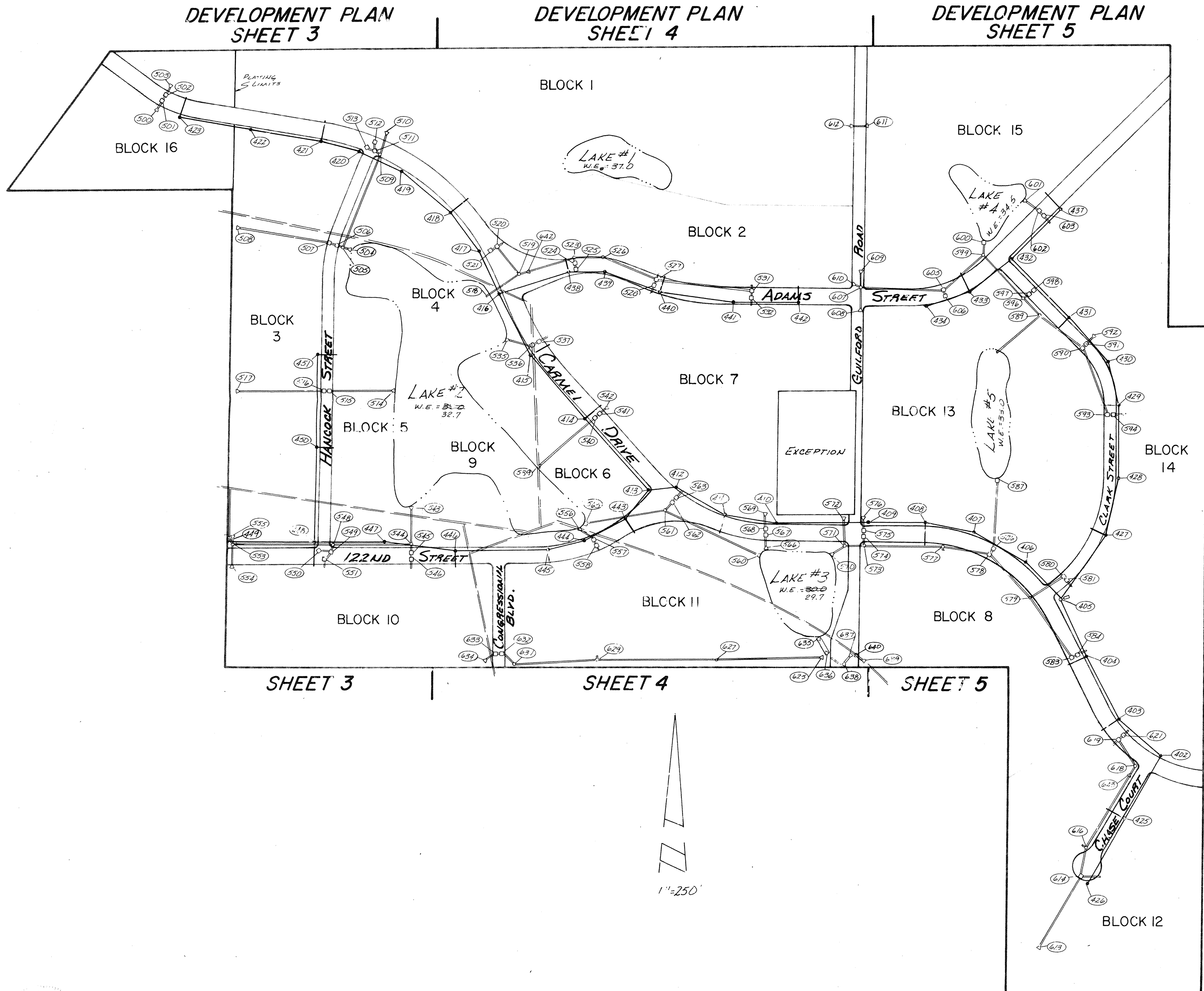
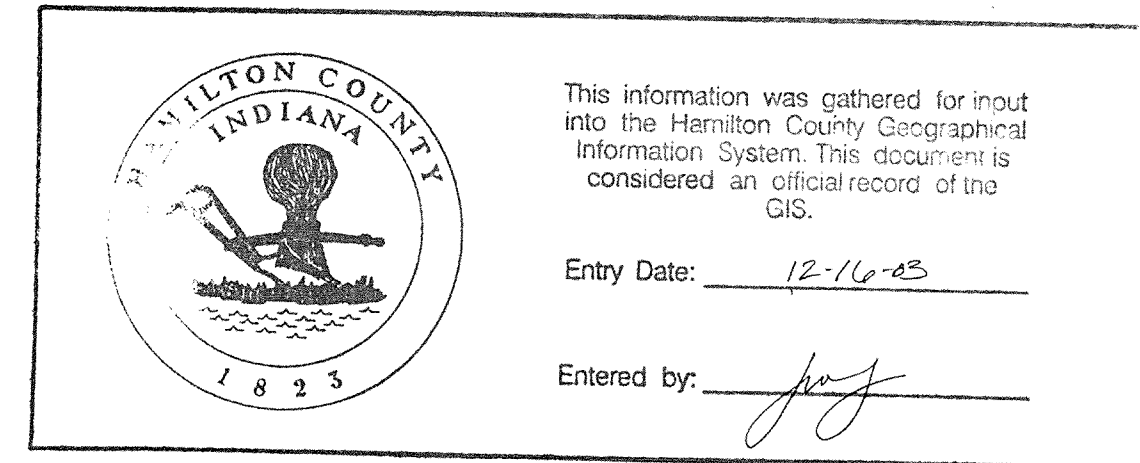
I recommend the Board approve the drains construction as complete and acceptable.

Sincerely,

Kenton C. Ward,
Hamilton County Surveyor

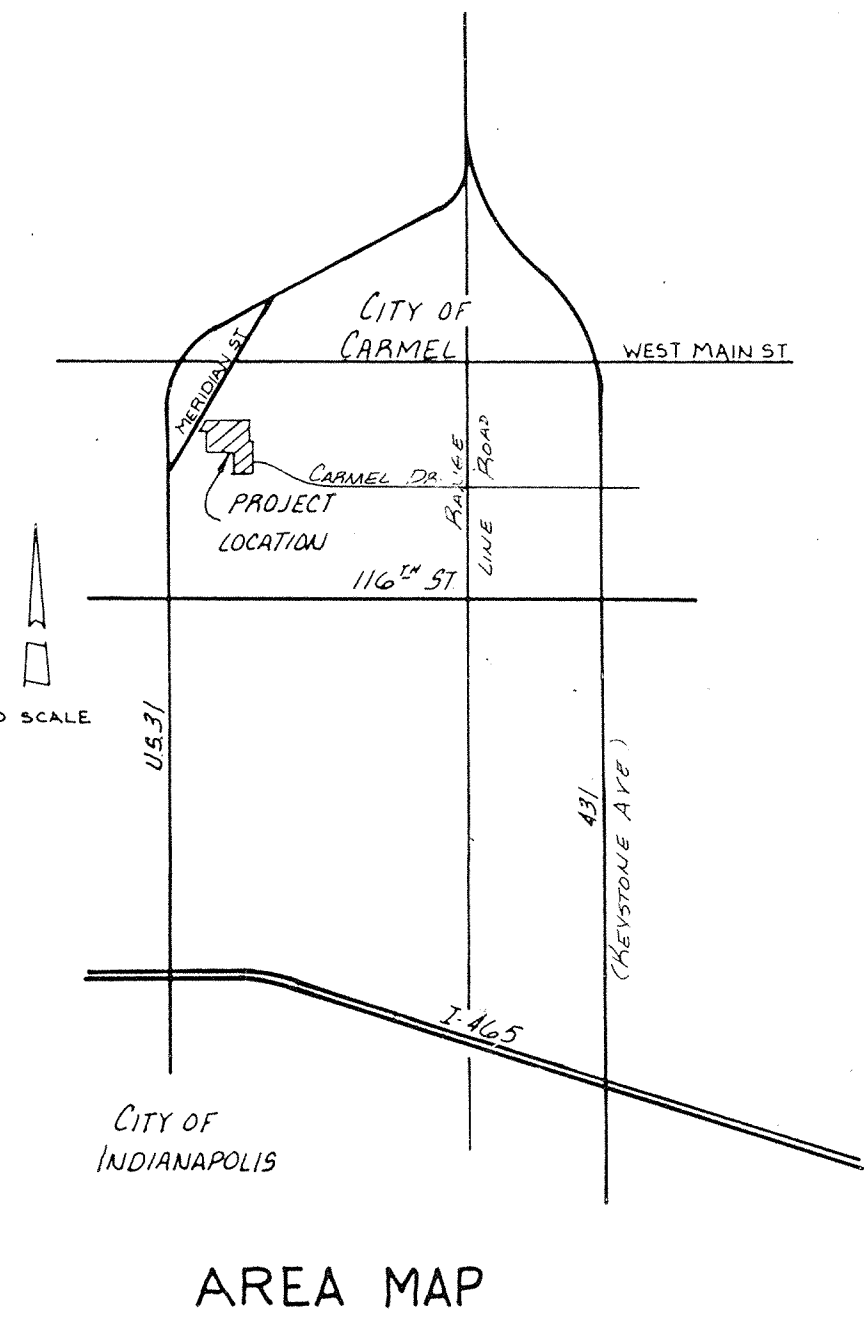
KCW/slm

CONSTRUCTION PLANS FOR CARMEL SCIENCE & TECHNOLOGY PARK



| INDEX | |
|-------|---|
| Sht. | Description |
| 1 | TITLE SHEET |
| 2 | PHASING PLAN |
| 3-5 | DEVELOPMENT PLANS |
| 6 | STREET PLAN & PROFILE - CARMEL DRIVE (WEST HALF) |
| 7 | STREET PLAN & PROFILE - CARMEL DRIVE (EAST HALF) |
| 8 | STREET PLAN & PROFILE - HANCOCK STREET |
| 9 | STREET PLAN & PROFILE - 122ND STREET & CONGRESSIONAL BLVD. |
| 10 | STREET PLAN & PROFILE - ADAMS STREET |
| 11 | STREET PLAN & PROFILE - CLARK STREET & CHASE COURT |
| 12-14 | STREET DETAILS |
| 15 | STORM SEWER PLAN & PROFILE - STR. 15 560-565 |
| 16 | STORM SEWER PLAN & PROFILE - STR. 15 625-634, 635-636 |
| 17 | STORM SEWER PLAN & PROFILE - STR. 15 555-558, 559-562, 566-559, 566-569 |
| 18 | STORM SEWER PLAN & PROFILE - STR. 15 518-531 |
| 19 | STORM SEWER PLAN & PROFILE - STR. 15 500-505, 519-521 |
| 20 | STORM SEWER PLAN & PROFILE - STR. 15 505-515 |
| 21 | STORM SEWER PLAN & PROFILE - STR. 15 514-517, 545-547 |
| 22 | STORM SEWER PLAN & PROFILE - STR. 15 570-587 |
| 23 | STORM SEWER PLAN & PROFILE - STR. 15 544-555, 548-552 |
| 24 | STORM SEWER PLAN & PROFILE - STR. 15 514-517, 545-547 |
| 25 | STORM SEWER PLAN & PROFILE - STR. 15 570-587 |
| 26 | STORM SEWER PLAN & PROFILE - STR. 15 570-587, 637-640 |
| 27 | STORM SEWER PLAN & PROFILE - STR. 15 611-612, 613-622 |
| 28 | STORM SEWER PLAN & PROFILE - STR. 15 588-600, 589-599 |
| 29 | STORM SEWER PLAN & PROFILE - STR. 15 599-610, 601-604 |
| 30 | SANITARY SEWER PLAN & PROFILE - STR. 15 405-426 |
| 31 | SANITARY SEWER PLAN & PROFILE - STR. 15 405-415 |
| 32 | SANITARY SEWER PLAN & PROFILE - STR. 15 415-416 |
| 33 | SANITARY SEWER PLAN & PROFILE - STR. 15 416-422 |
| 34 | SANITARY SEWER PLAN & PROFILE - STR. 15 422-423, 448-449 |
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| 36 | SANITARY SEWER PLAN & PROFILE - STR. 15 448-451 |
| 37 | SANITARY SEWER PLAN & PROFILE - STR. 15 415-442 |
| 38 | SANITARY SEWER PLAN & PROFILE - STR. 15 469-432 |
| 39 | SANITARY SEWER PLAN & PROFILE - STR. 15 432-435, 432-435 |
| 40-43 | FORCE MAIN PLAN & PROFILE |
| 44 | LIFT STATION DETAIL |
| 45 | LIFT STATION PLAN |
| 46 | DUPLEX PUMPING STATION & CONTROLS |
| 47 | STANDARD DETAILS |
| 48 | STANDARD DETAILS & SPECIFICATIONS |
| 30A | ALTERNATE GRAVITY SAN SEWER LINE |
| 30B | ALTERNATE GRAVITY SAN SEWER LINE |

| BENCHMARKS | |
|------------|---|
| BM1 | All topo is based on USGS Bench Mark 21-42-1934 located 2 miles along Chicago, Indianapolis and Louisville R.R. from Station at Carmel, 11.5 Ralls north of mile post 1-70, 10 Ralls north of crossing of Indiana Railroad, 7 Ralls south of crossing of 111th Street, 2 miles east of east rail, top of northeast corner of concrete Switch Base, 0.5 feet lower than track. Standard description marked 1-42-1934. Elevation = 859.000. |
| BM2 | Nail in west side of Power pole #107-261, 50 feet south of centerline of Carmel Drive, 1300 feet east of Guilford Road. Elevation = 840.16. |
| BM3 | PK nail in northwest side of Power pole #86-718, 107-723, east of Guilford Road 50 ± feet north of south property line. Elevation = 837.54. |
| BM4 | Nail in Power pole #182-916 on east side of Penn Road, second pole south of northwest corner of trailer park. Elevation = 855.01. |



AS BUILT
FERTIG LEGAL DRAIN
date 7/20/87

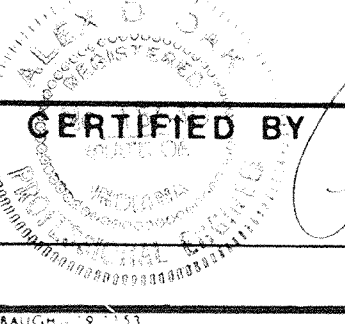
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|---------|--|
| 4/10/06 | 210-06 DELETED SAN STR. 15 435, 436 212-06 ADDED BLOCK 16 213-06 DELETED STR. 15 435, 436 ADDED SAN STR. 15 435, 436 |
| | 1-10-86 REV. LIFT STA. LOCATION - STORM SEWER (SEE SH. 18) 1-20-86 SEE SH. 2, 7, 11, 14, 17, 19, 22, 24, 26, 30, 31, 38, 47 1-21-86 SEE SH. 40 2-3-86 SEE SH. 3, 4, 5 2-4-86 SEE SH. 11, 14, 16 2-10-86 SEE SH. 1, 3, 4, 5, 11, 13, 14, 16, 18, 20 2-11-86 SEE SH. 22, 24, 29, 30, 31, 37, 40, 44 2-11-86 SEE SH. 12, 10, 17, 47, 48 2-13-86 SEE SH. 2, 3 2-11-86 SEE SH. 2, 30, 48 3-18-86 SEE SH. 1, 2, 3, 20 3-19-86 SEE SH. 4, 27, 12, 21, 25, 37 4-1-86 SEE SH. 1, 2, 3, 25, 33, 34, 35, 36 4-1-86 SEE SH. 14, 15, 16 4-1-86 SEE SH. 1, 2, 13, 16 4-2-86 SEE SH. 17, 18, 14, 20, 61, 22 4-2-86 SEE SH. 45, 24, 28 4-2-86 SEE SH. 14, 15 4-2-86 SEE SH. 27, 28, 29, 30, 31, 37, 40, 41, 42, 43, 44, 45, 47, 48 4-10-86 SEE SH. 8, 9 4-10-86 SEE SH. 8 5-5-86 ADDED SH. 30A, 30B, 30C 6-24-86 SEE SH. 30A, 30B, 30C, 40A, 40B, 41, 42, 43, 44, 45 6-24-86 ADDED SH. 47A 1-13-87 SEE SH. 4, 5, 7, 9, 10, 11, 13, 14, 15, 16, 25, 29, 30, 30 c, 47 7-20-87 FERTIG LEGAL DRAIN AS BUILT TO SH. 13, 17, 18, 22, 23 |

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7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
(317) 842-6777

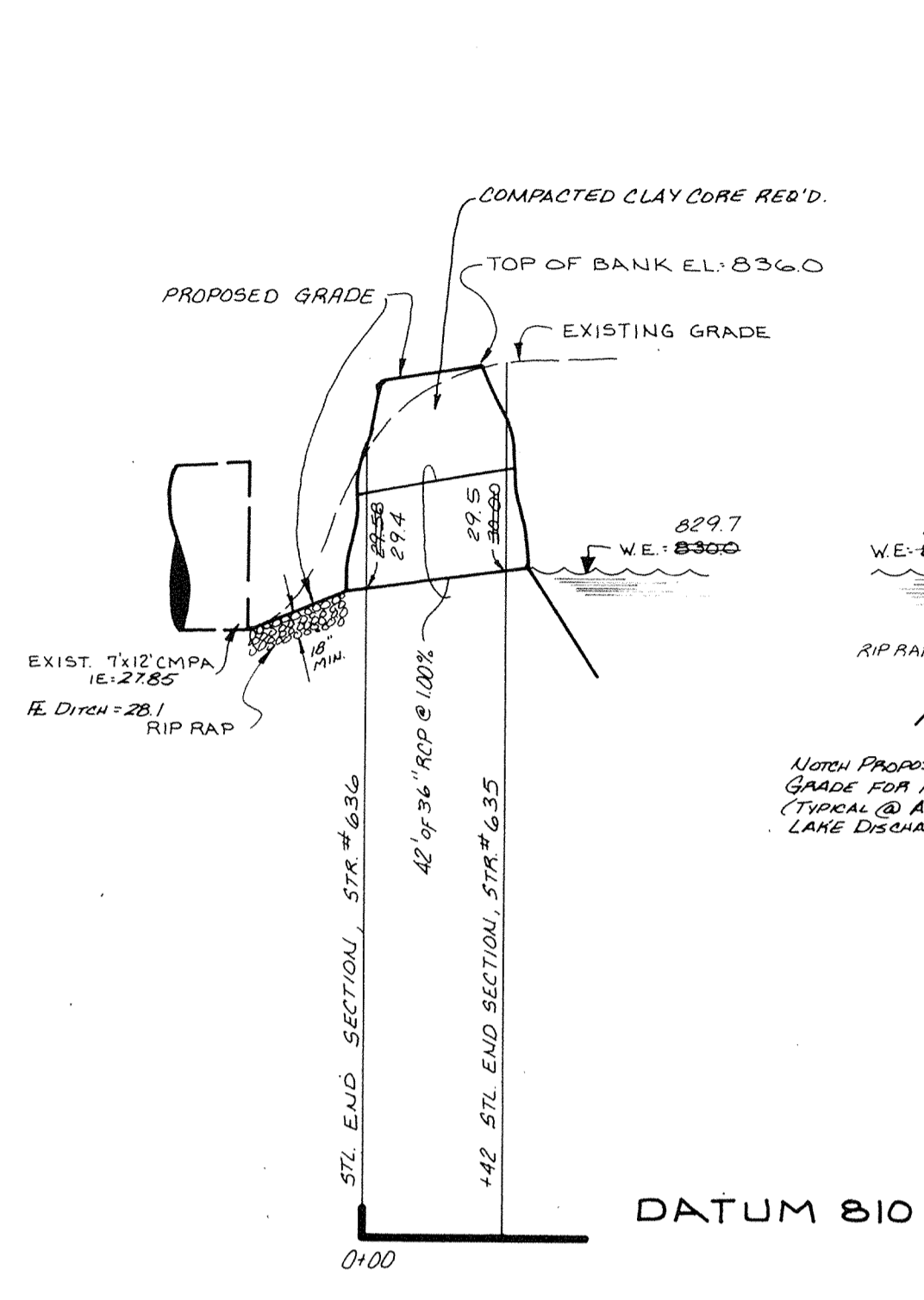
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- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING

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| TECH. CHK. | DFTNG. CHK. | DRAWN BY | SCALE | DATE | CLIENT |
| | | K.S.B. | AS NOTED | 1-2-86 | CARMEL SCIENCE & TECHNOLOGY PARK |
| DRAWING TITLE: COVER SHEET | | | | | |

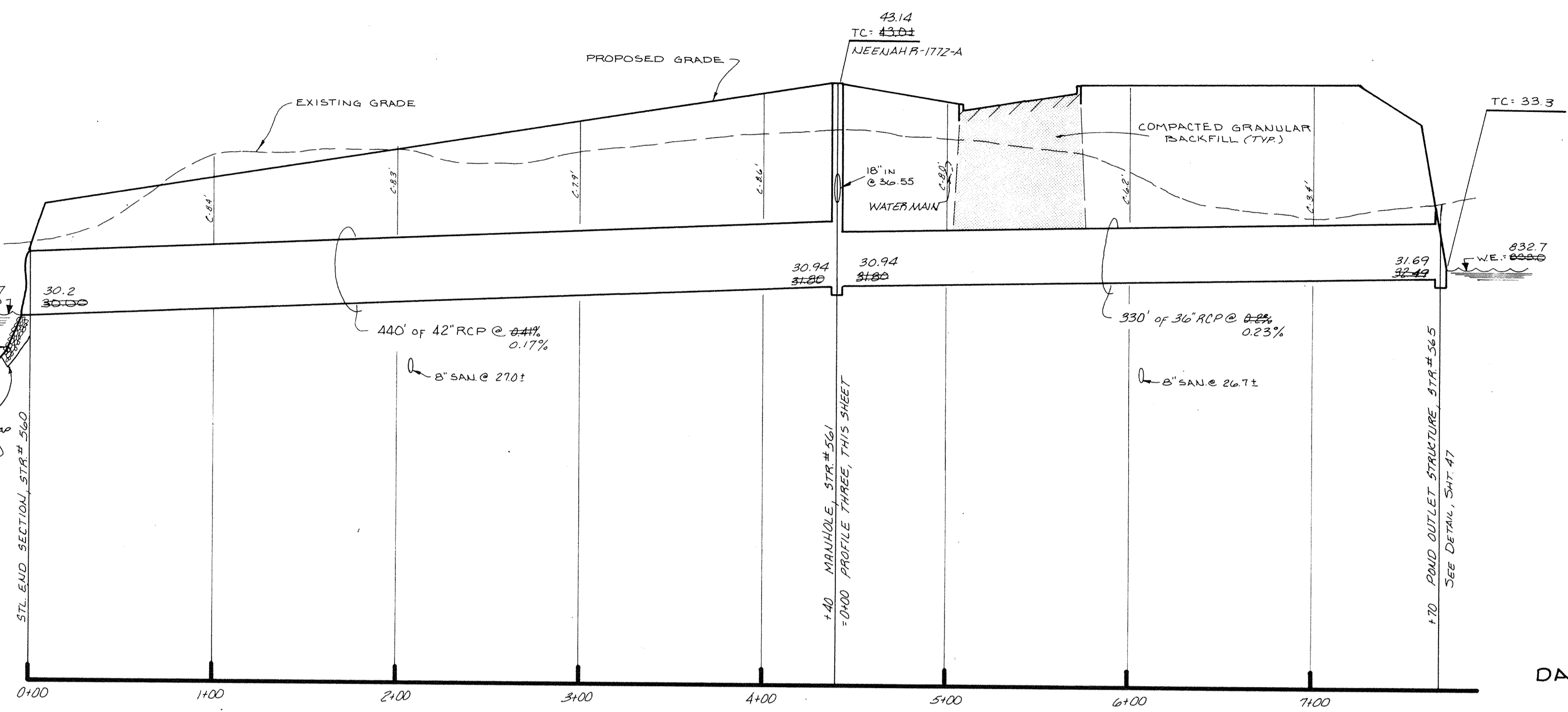
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| JOB NUMBER: 80381-10000 | | OF 48 |



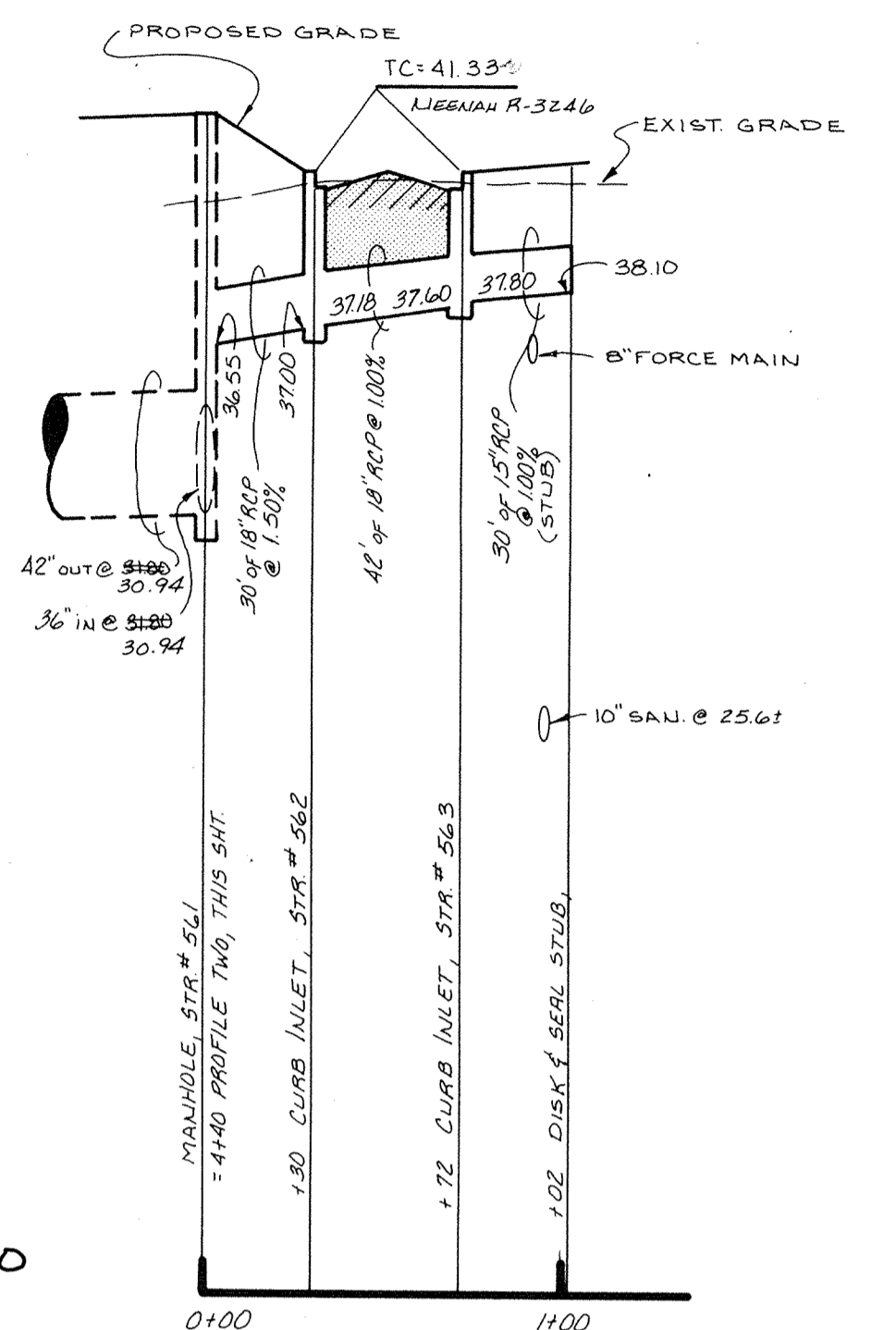
NOTE: CUTS SHOWN ARE APPROXIMATE, TAKEN FROM EXIST GRADE TO INVERT OF PIPE.



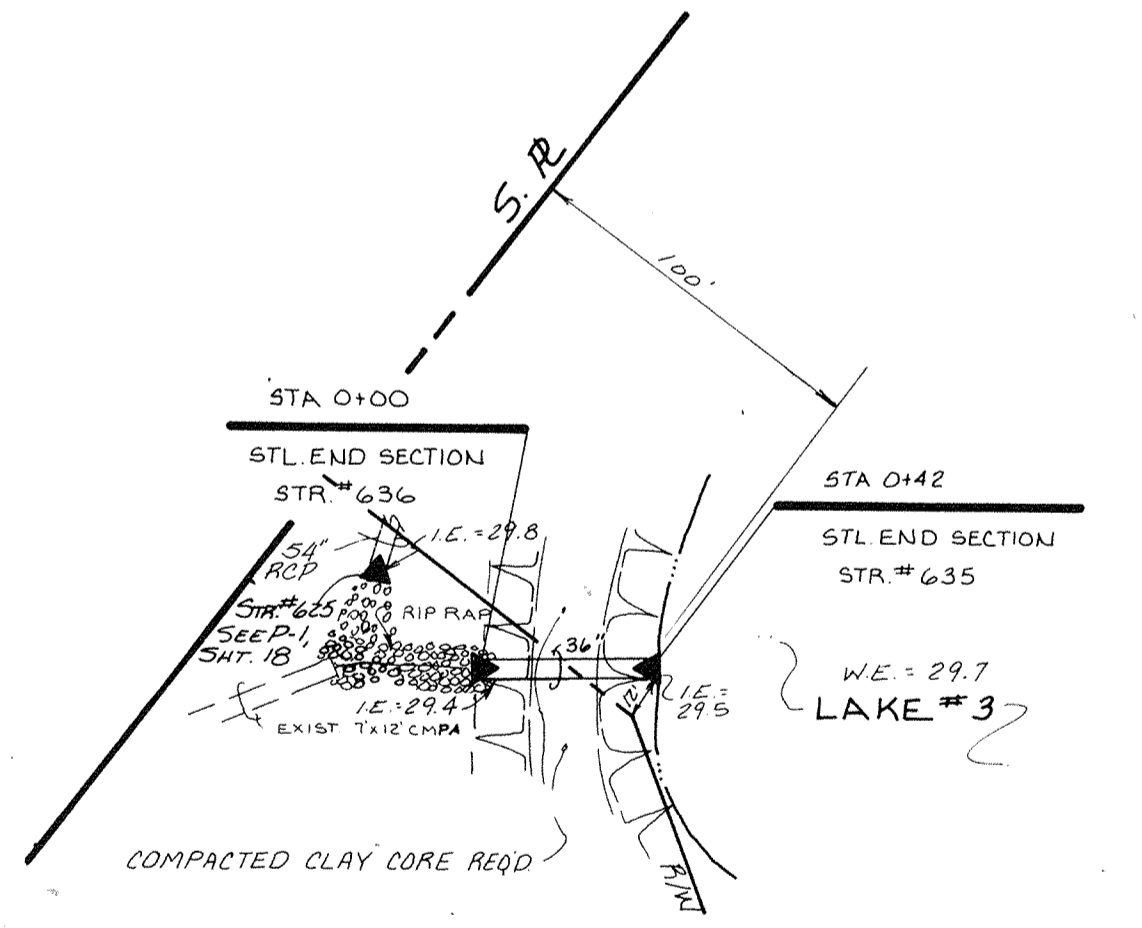
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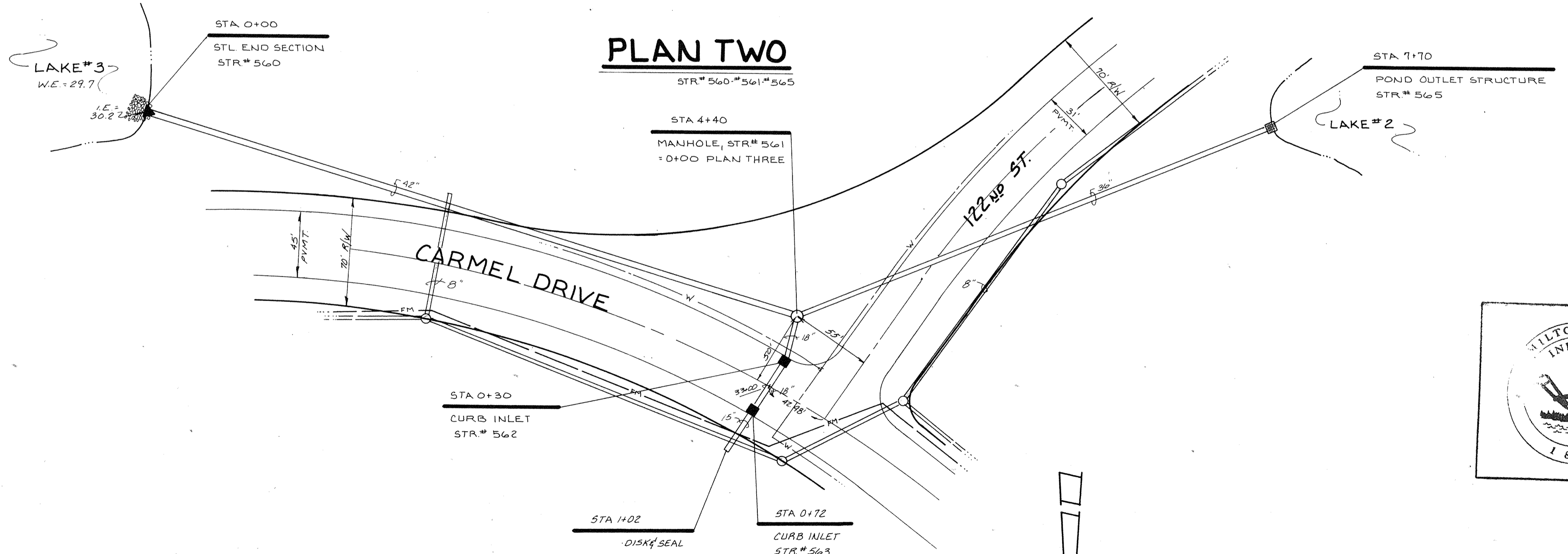
PROFILE TWO



PROFILE THREE



PLAN ONE



PLAN TWO

PLAN THREE

HAMILTON COUNTY INDIANA

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Entry Date: 12-16-03

Entered by: *[Signature]*

AS BUILT

FERTIG LEGAL DRAIN

date 7/20/07

| | | |
|--|--------------------|---------------|
| | CERTIFIED BY | DATE |
| | <i>[Signature]</i> | <i>[Date]</i> |
| REVISIONS 1-20-04 Rev. P.D. See 1-20-04 Misc. Rev. Plan One 4-4-04 Rev. See Dra. Drawing Check 7-20-07 Fertig Legal Drain As Built | | |

PAUL I. CRIPE, INC.

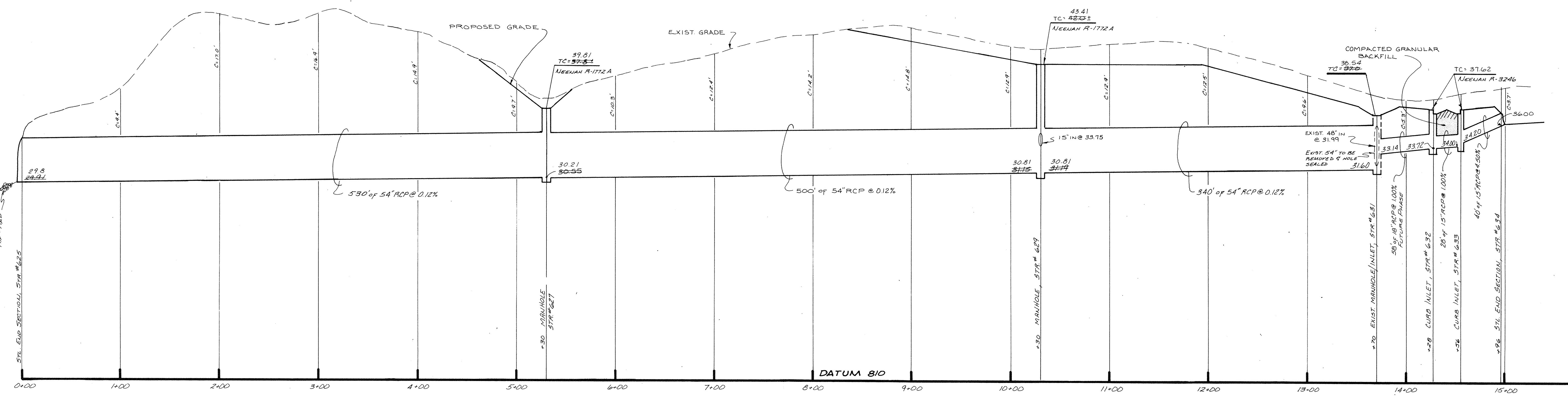
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 317-842-6777

- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING


| | | | | |
|-------------|---|------------------------------|--------|-----------------------------------|
| TECH. CHK. | DRAWN BY | SCALE | DATE | CLIENT |
| | <i>[Signature]</i> | HORIZ. 1"=50' VERT. 1"=2' | 1-2-06 | CARMEL SCIENCE & TECHNOLOGY PARK. |
| DFTNG. CHK. | DRAWING TITLE | | | |
| | STORM SEWER - PLAN & PROFILE | | | |

| | | |
|-------------|-------------|-------|
| DWG. TYPE | FILE NUMBER | SHEET |
| | | 17 |
| JOB NUMBER | | OF 48 |
| 80381-10000 | | |

NOTE: CUTS SHOWN ARE APPROXIMATE, TAKEN FROM EXIST. GRADE TO INVERT OF PIPE.



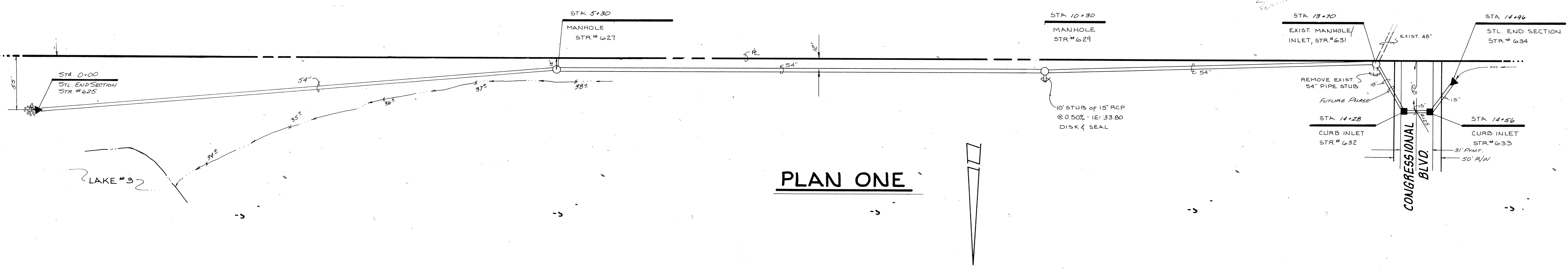
PROFILE ONE



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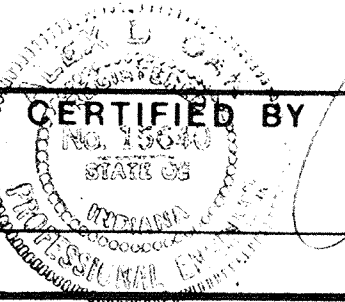
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PLAN ONE

THIS PLAN IS SOME AS SHOWN ON THE PLAN OF THE PROJECT NO. 1 AND 2 AND IS NOT TO BE USED FOR ANY OTHER PROJECT. THE PLAN IS THE PROPERTY OF THE ENGINEER AND IS NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF THE ENGINEER.

AS BUILT
 FERTIG LEGAL DRAIN
 date 7/20/87

| | | |
|--|--|---|
| CERTIFIED BY  <i>[Signature]</i> | REVISIONS | |
| | 1-18-86 REV. PIPE LENGTH BETW STA 5+30 & 6+27 DELETED STA #626 & #628 K.S.B. | 7-20-87 FERTIG LEGAL DRAIN AS BUILT K.S.B. |
| DATE 1-18-86 K.S.B. | DATE 7-20-87 K.S.B. | DATE 7/20/87 K.S.B. |

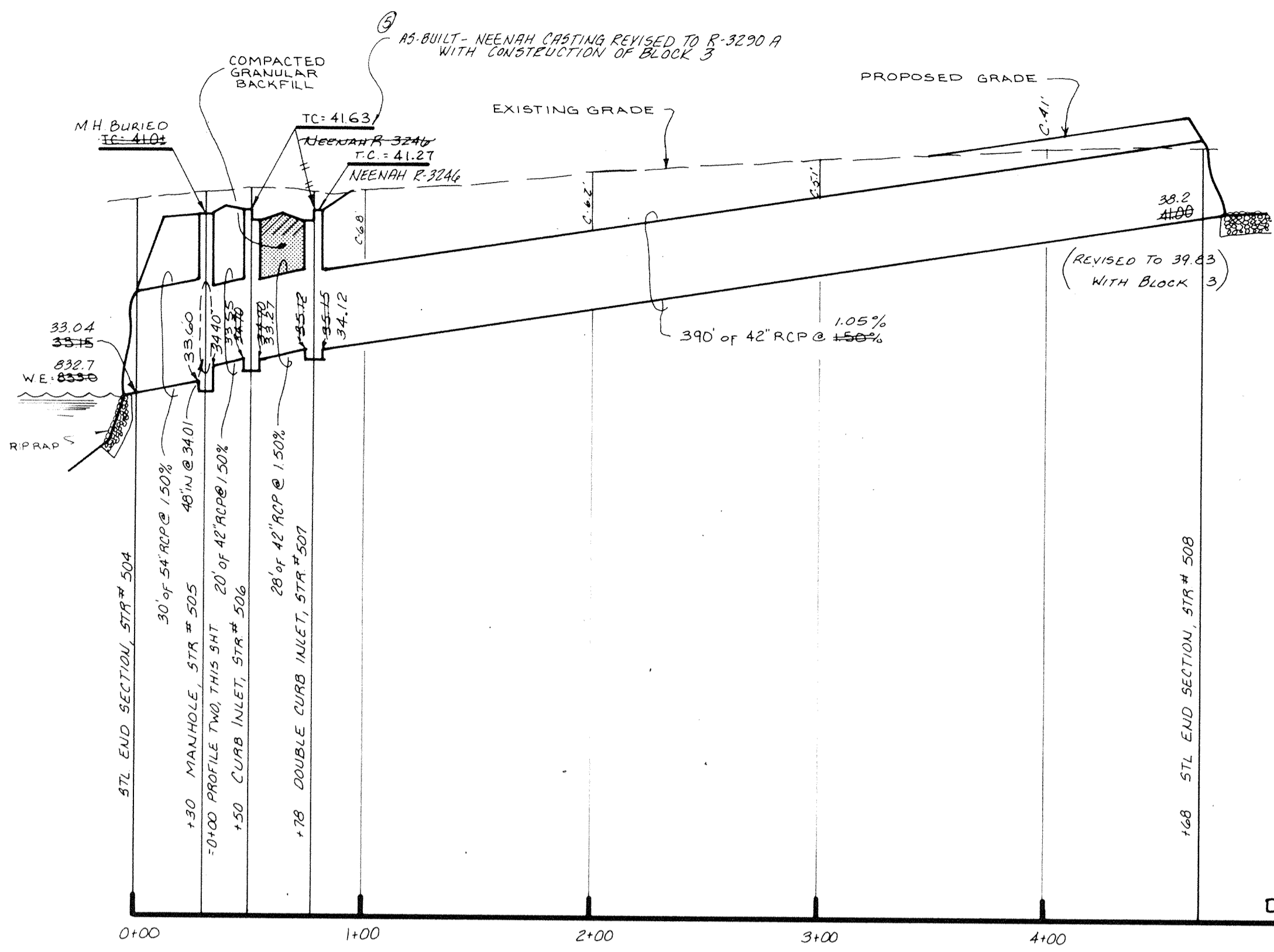
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- CIVIL ENGINEERING
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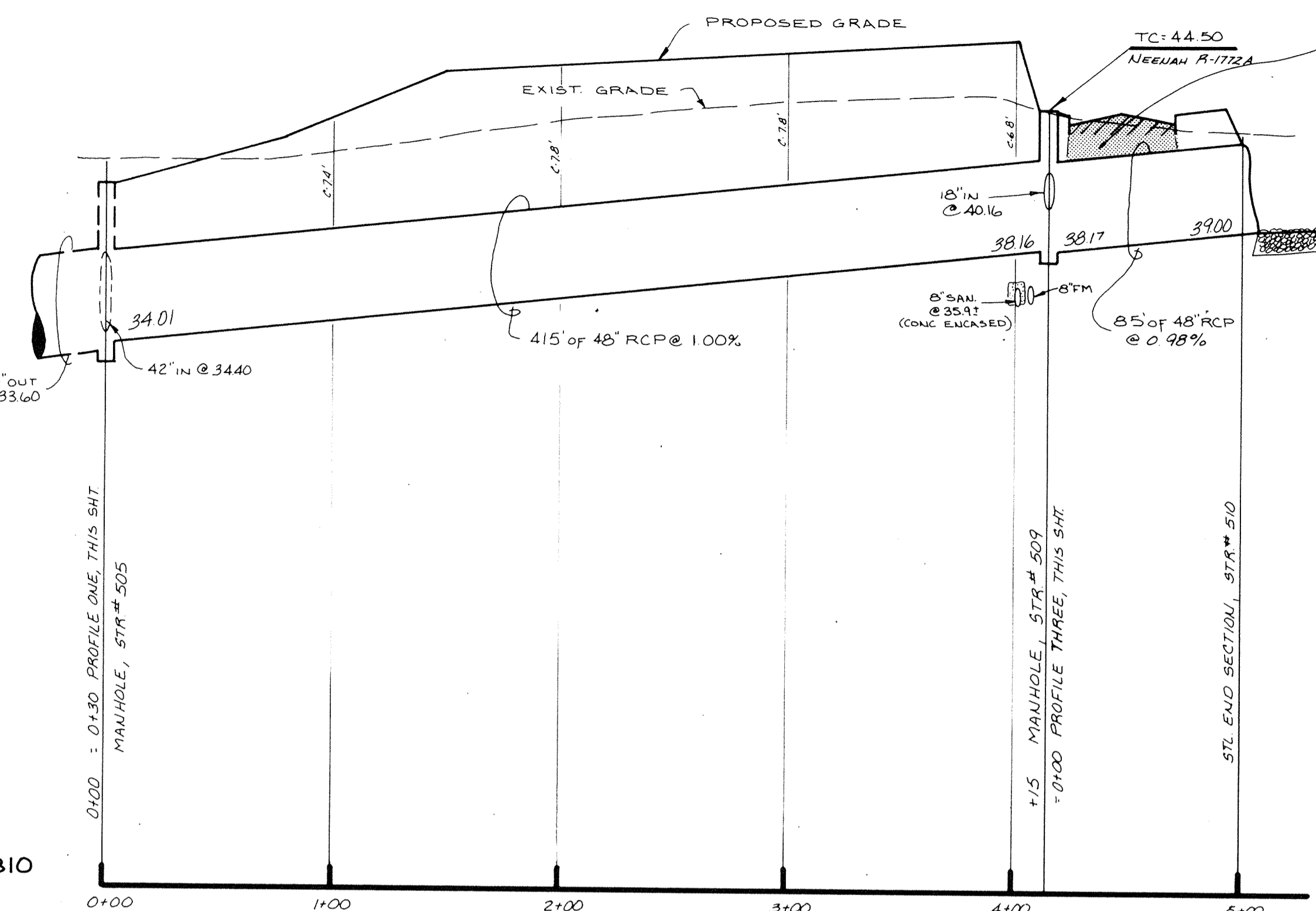
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| TECH. CHK. | DRAWN BY | SCALE | DATE | CLIENT |
| DFTNG. CHK. | <i>[Signature]</i> | HORIZ. 1"=50' VERT. 1"=5' | 1-2-86 | CARMEL SCIENCE & TECHNOLOGY PARK |
| DRAWING TITLE | | | | |
| STORM SEWER - PLAN & PROFILE | | | | |

| | | |
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| DWG. TYPE | FILE NUMBER | SHEET |
| | | 18 |
| JOB NUMBER | | OF 48 |
| 80381-10000 | | |

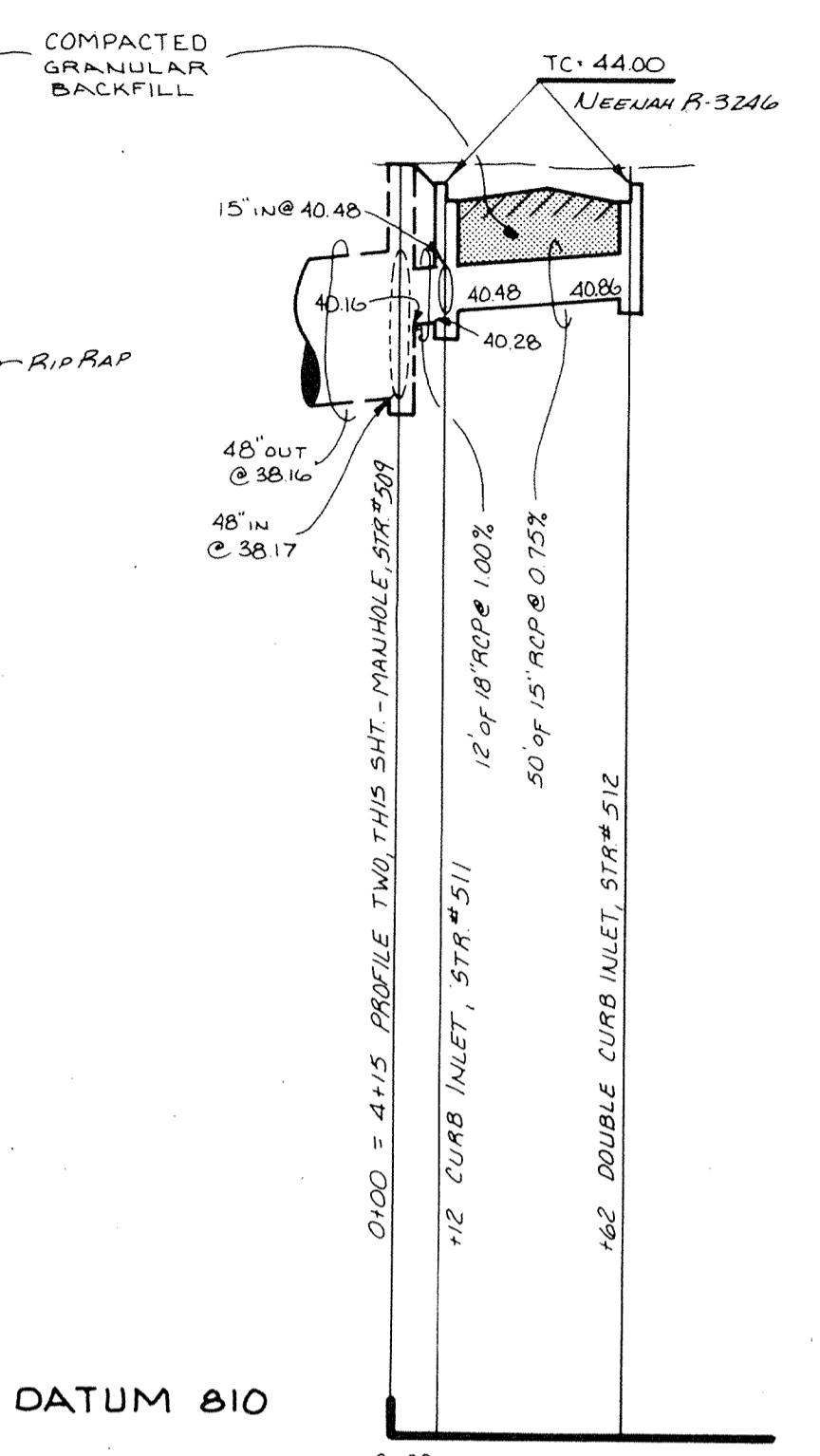
NOTE CUTS SHOWN ARE APPROXIMATE, TAKEN FROM EXIST. GRADE TO INVERT OF PIPE.



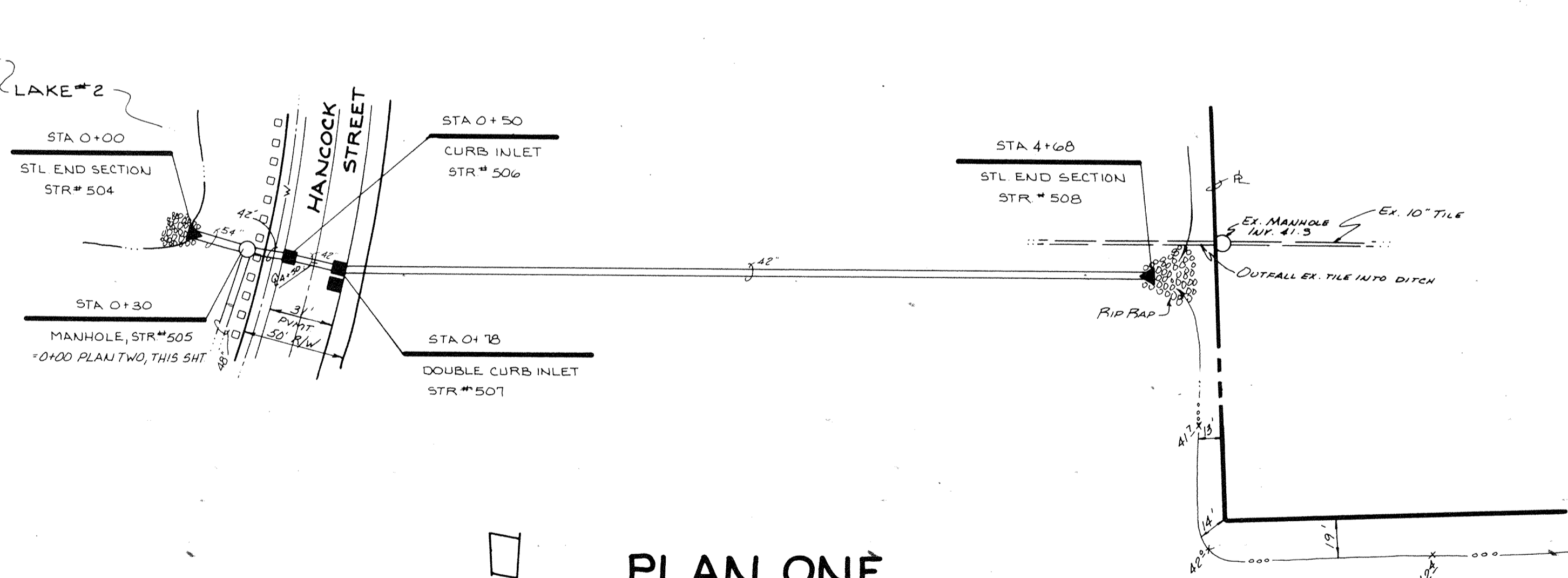
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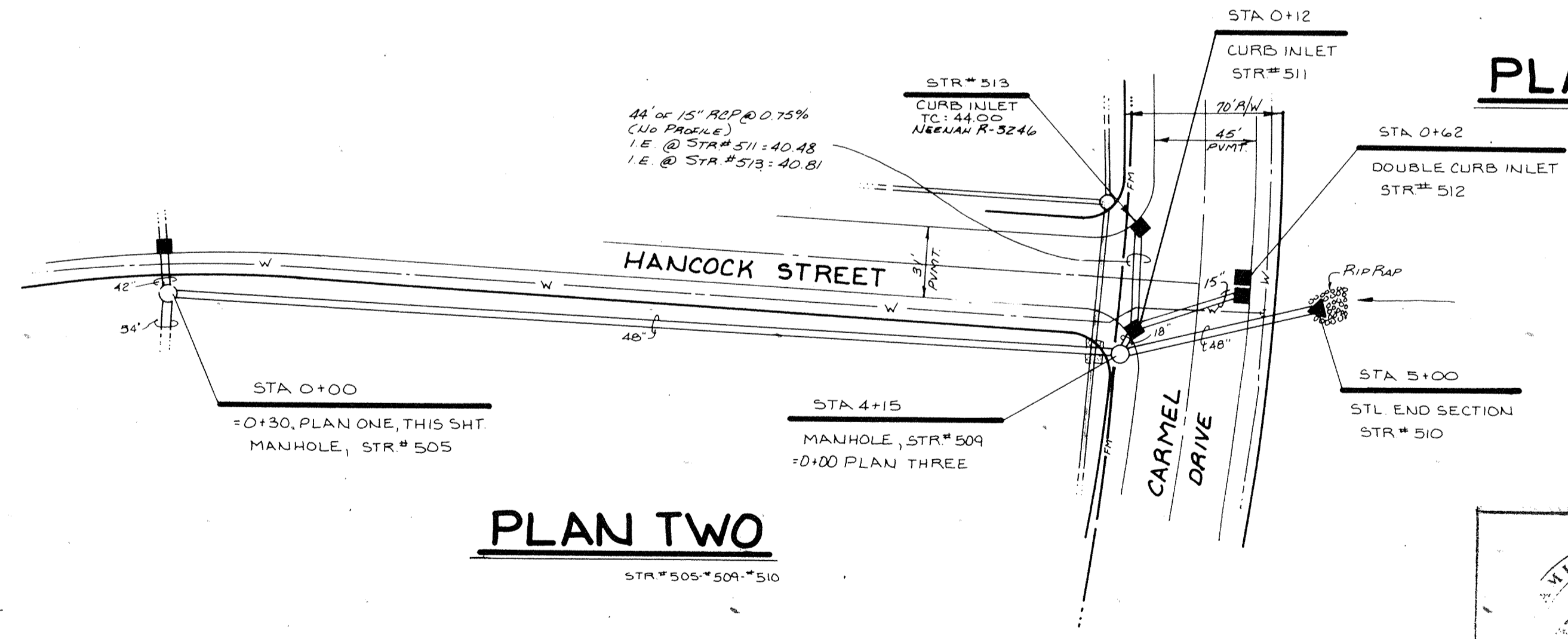
PROFILE TWO



PROFILE THREE



PLAN ONE



PLAN TWO

PLAN THREE

WILTON COUNTY INDIANA 1823

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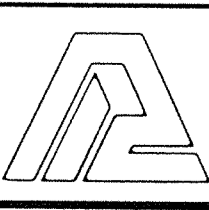
Entry Date: 12-16-03

Entered by: [Signature]

AS BUILT
FERTIG LEGAL DRAIN
date 1/20/07

CERTIFIED BY
[Signature]
DATE

| REVISIONS | |
|-------------------------------------|-------------|
| 02-28 REV EX FIELD TIE LOCATION | K.S.B. |
| 02-11-06 REV ROAD GRADE PROFILE ONE | K.S.B. |
| 04-06 REV PER DRAFTING CHECK | K.S.B. |
| 02-29-07 REV CRISTINA'S ECI NOTE | [Signature] |



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INDIANAPOLIS, INDIANA 46250
317-842-6777

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- ARCHITECTURE
- AND PLANNING

TECH. CHK.
DFTNG. CHK.

DRAWN BY
DRAWING TITLE

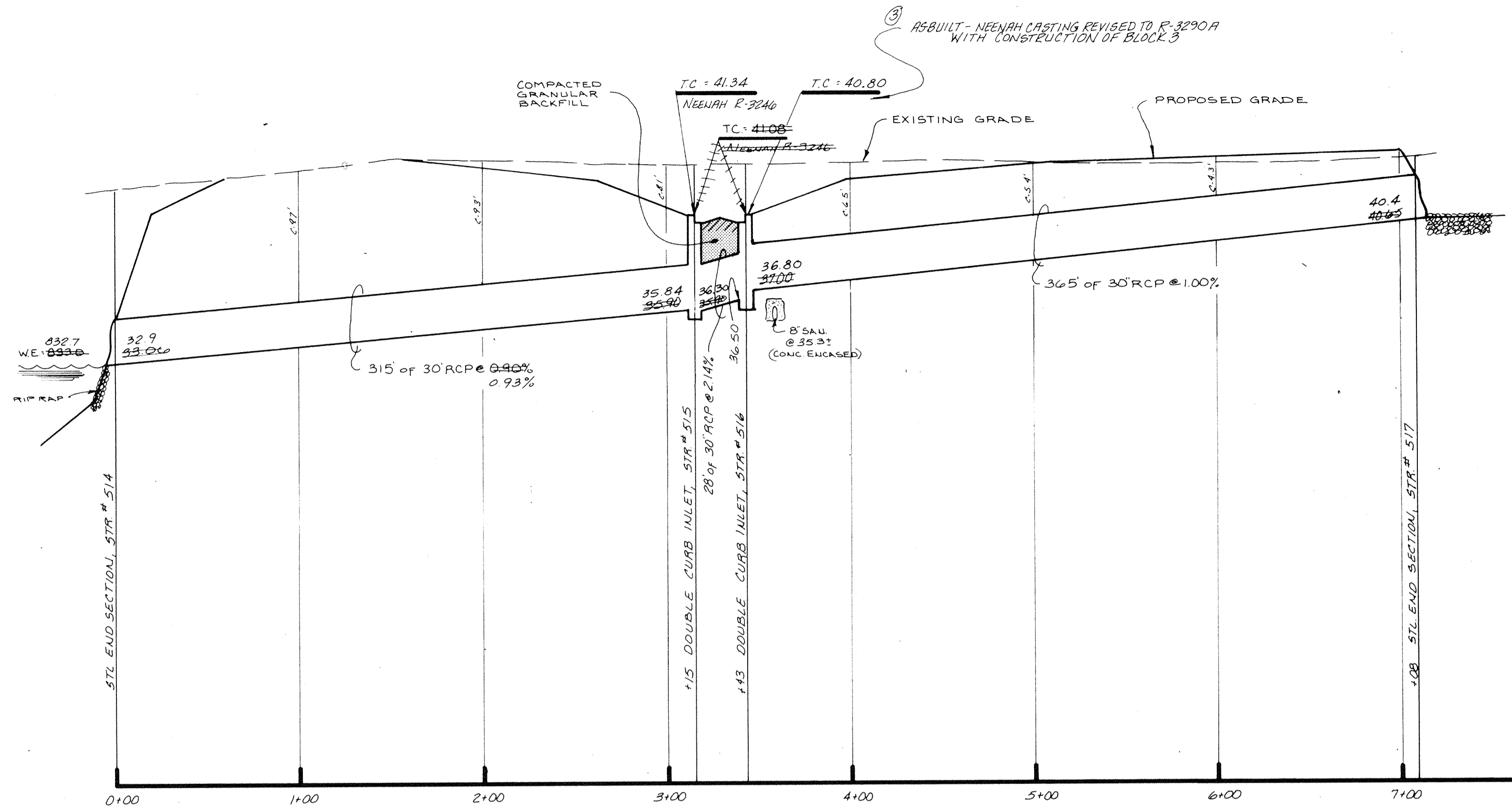
SCALE
DATE

CLIENT
CARMEL SCIENCE & TECHNOLOGY PARK

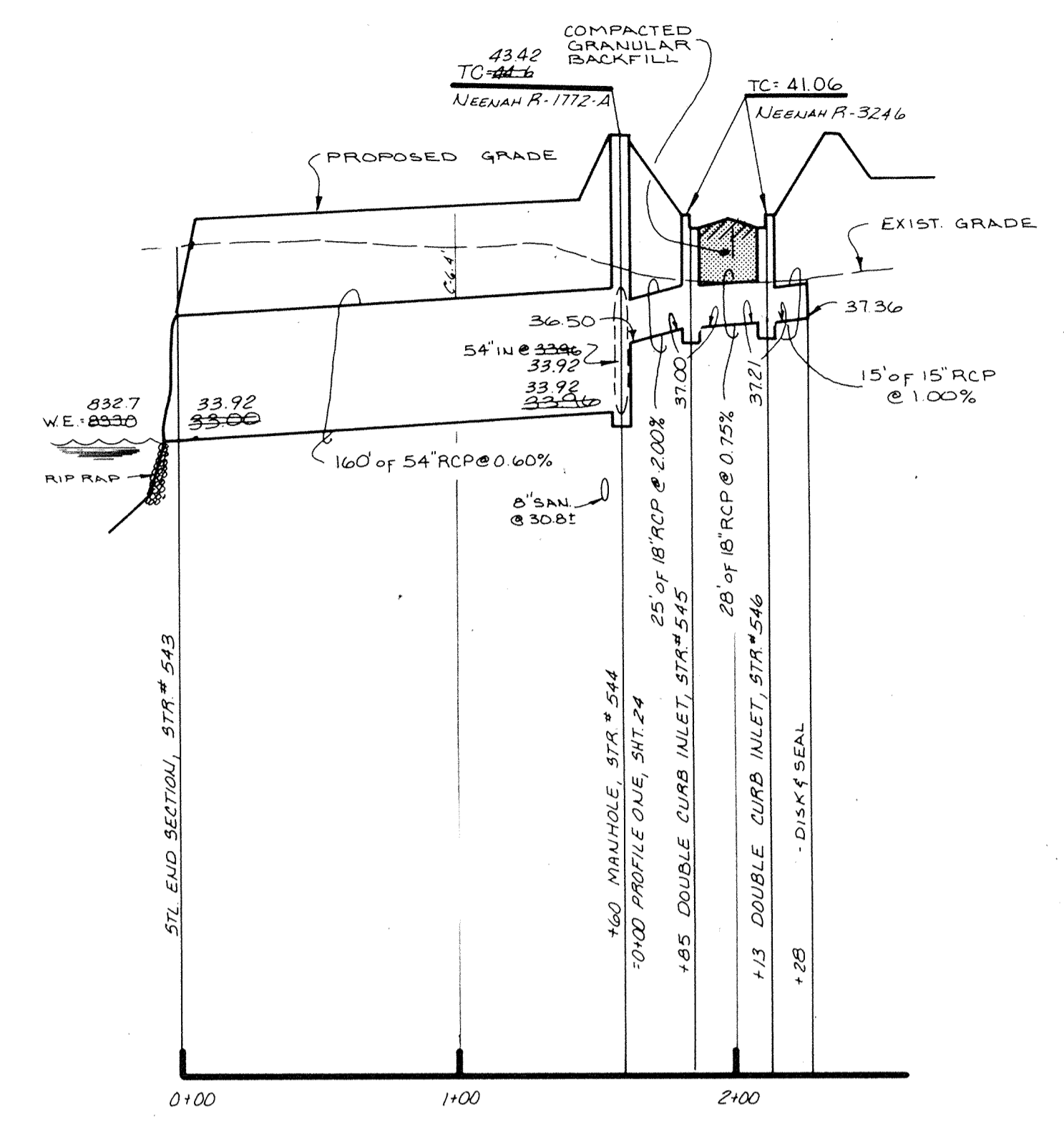
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| | | 22 |
| JOB NUMBER | | OF 48 |
| 80381-10000 | | |

STORM SEWER-PLAN & PROFILE

NOTE: CUTS SHOWN ARE APPROXIMATE, TAKEN FROM EXISTING GRADE TO INVERT OF PIPE

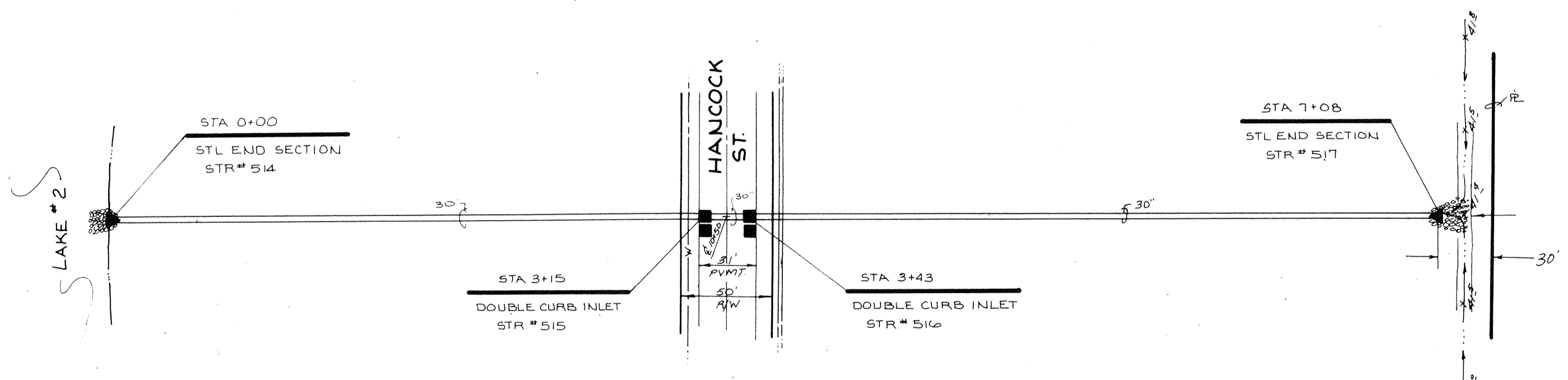


PROFILE ONE



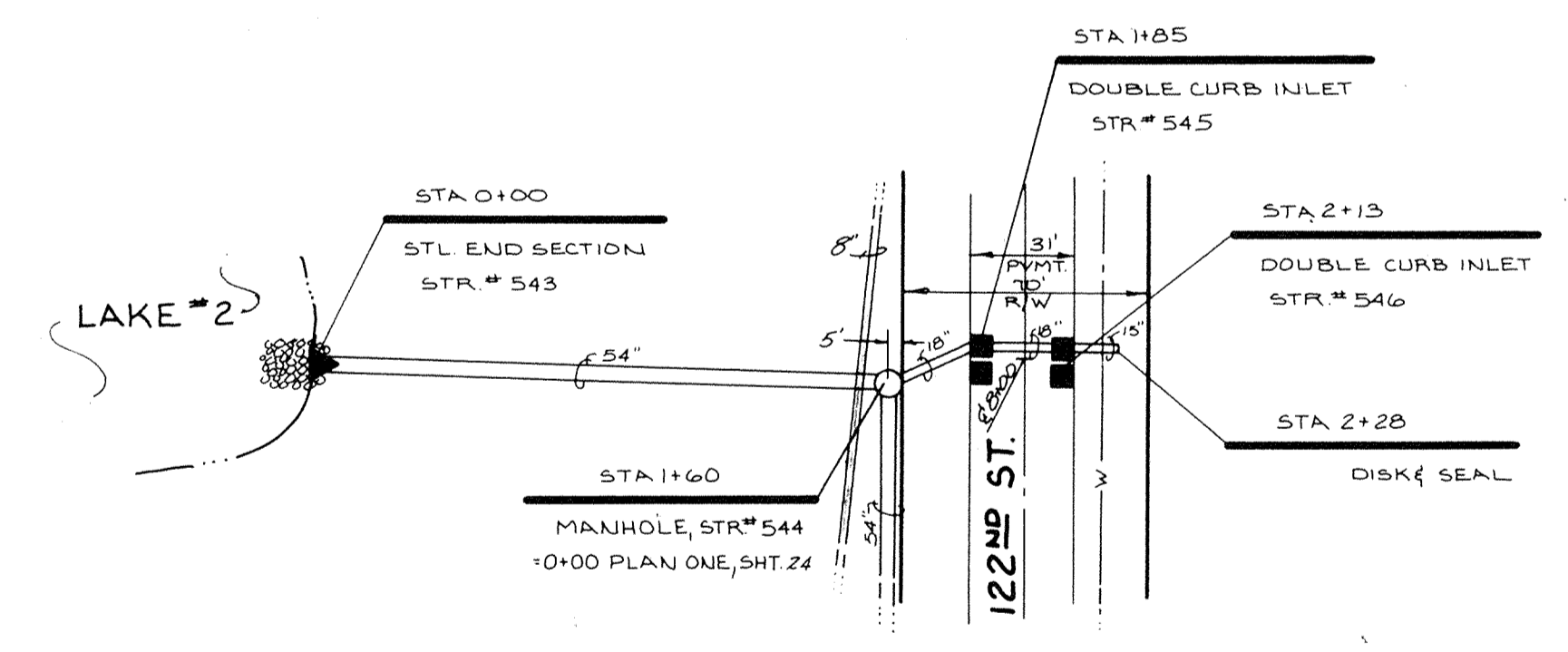
PROFILE TWO

DATUM 810



PLAN ONE

GRADES SHOWN ARE SWALE GRADES - GRADES IN PIT ARE TO BE 2' LOWER THAN SWALE GRADES



PLAN TWO

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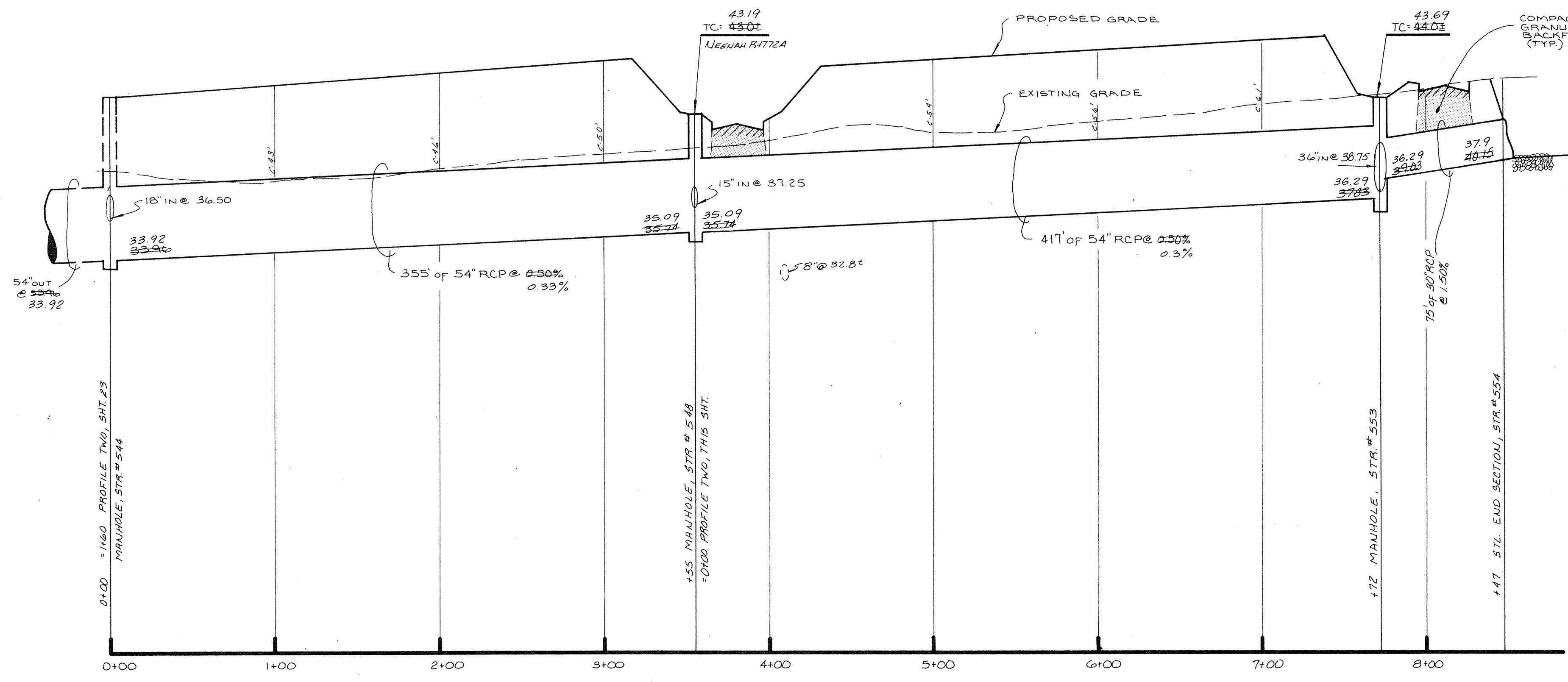
Entry Date: 12-16-03

Entered by: *[Signature]*

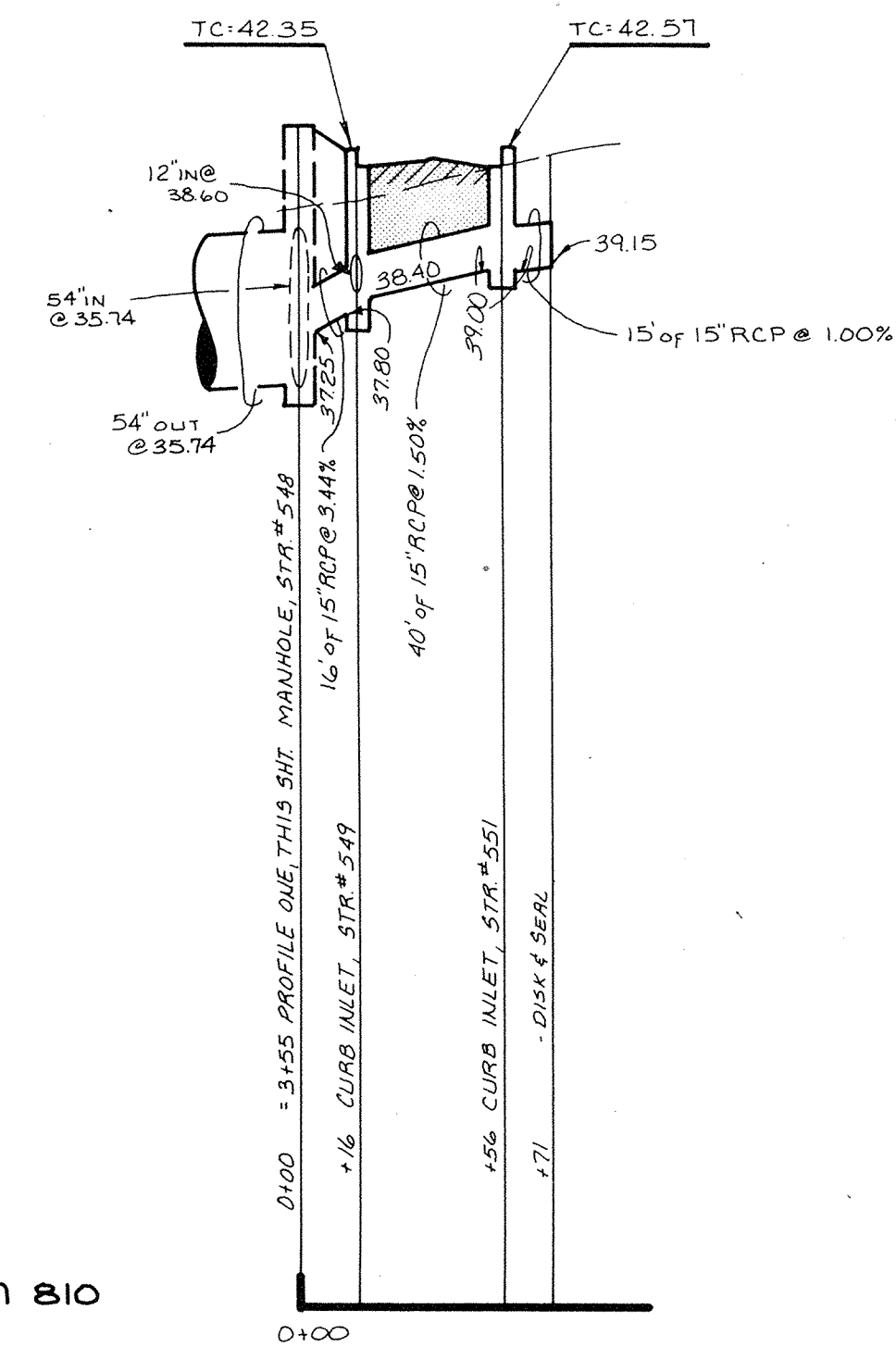
AS BUILT
FERTIG LEGAL DRAIN
date 7/20/07

| | | | | | | | | | | | |
|---|---|---|--|------------|--------------------------------|------------------------------------|----------------|--|----------------------------------|-----------------------------|-------|
| CERTIFIED BY DATE 7/20/07 | REVISIONS 4-5-06 REV PER DRAFTING CHECK A.S.B. 7-20-07 FERTIG LEGAL DRAIN AS BUILTS 7-29-07 ADD CASTING REV NOTE ③ | PAUL I. CRIFE, INC. 7172 GRAHAM ROAD INDIANAPOLIS, INDIANA 46250 (317) 842-6777 | • CIVIL ENGINEERING • LAND SURVEYING • ARCHITECTURE • LAND PLANNING | TECH. CHK. | DRAWN BY <i>[Signature]</i> | SCALE HORZ 1"=50' VERT 1"=5' | DATE 1-2-06 | CLIENT CARMEL SCIENCE & TECHNOLOGY PARK | DWG. TYPE | FILE NUMBER | SHEET |
| | | | | | | | | | | | |
| STORM SEWER - PLAN & PROFILE | | | | | | | | | JOB NUMBER 80381-10000 | SHEET 23 OF 48 | |

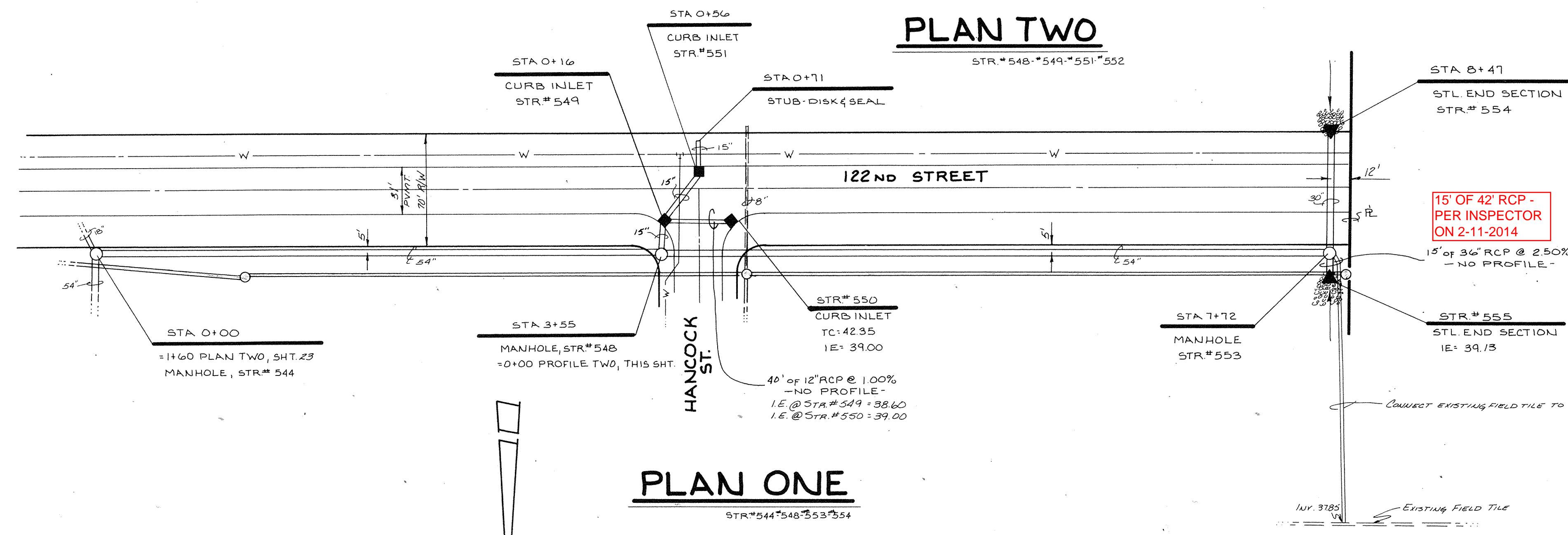
NOTE: CUTS SHOWN ARE APPROXIMATE, TAKEN FROM EXIST. GRADE TO INVERT OF PIPE.



PROFILE ONE



PROFILE TWO



PLAN ONE

HAMILTON COUNTY INDIANA

This information was gathered for input into the Hamilton County Geographical Information System. This document is the official record of the work.

Entry Date: 12-16-03

Entered by: *[Signature]*

EXAMINED BY

[Signature]

DATE

| REVISIONS |
|--|
| 1-20-04 RCP PIPE TO CONNECT EXISTING TILE K.S.P. |
| 4-5-06 RCP PER DRAFTER CHECK K.S.P. |
| 7-20-07 FERTIG LEGAL DRAIN AS BUILTS |

PAUL I. CRIPE, INC.

7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
(317) 842-6777

- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING

| | | | | |
|------------|--------------------|---------------------------|--------|----------------------------------|
| TECH. CHK. | DRAWN BY | SCALE | DATE | CLIENT |
| | <i>[Signature]</i> | HORZ 1"=50' VERT 1"=5' | 1-2-06 | CARMEL SCIENCE & TECHNOLOGY PARK |

| | |
|-------------|---------------------------------------|
| DFTNG. CHK. | DRAWING TITLE |
| | STORM SEWER-PLAN & PROFILE |

AS BUILT

FERTIG LEGAL DRAIN

DATE 7/20/07

| | | |
|-------------|-------------|-----------|
| DWG. TYPE | FILE NUMBER | SHEET |
| | | 24 |
| JOB NUMBER | | OF 48 |
| 80381-10000 | | |