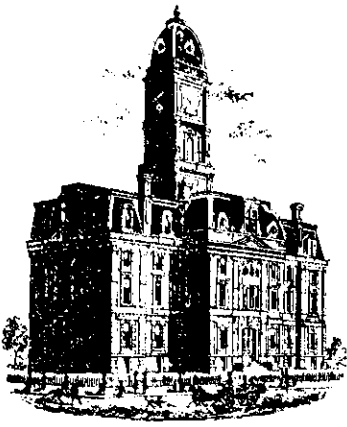


Drain: MEMPHIS OVERDORE Drain #: 69
 Improvement/Arm: NOBLESVILLE BUSINESS PARK RELOCATION
 Operator: J. LIVINGSTON Date: 3-30-04
 Drain Classification: Urban/Rural Year Installed: 2002

GIS Drain Input Checklist

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



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 12, 2002

To: Hamilton County Drainage Board

Re: McMahon-Overdorf Drain

Attached is a petition and plans for the proposed relocation of the McMahon-Overdorf Drain. The relocation is being proposed by Noblesville Business Park, LLC. The proposal is to relocate Arm 2 from Sta 0 to Sta 6+50 with new storm sewer parallel with Cumberland Road.

The line will consist of the following:

30" RCP 328 ft

The total length of new tile shall be 328 feet. The 650 feet of original drain between Sta 0 Arm 2 and Sta 6+50 Arm 2 shall be vacated. This proposal will reduce the drains total length by 322 feet.

The cost of the relocation is to be paid by Noblesville Business Park, LLC. Because the project is to be paid by the petitioner and is within the boundaries of the petitioner's property, the project falls under the requirements as set out in IC 36-9-27-52.5. Therefore, a hearing is not required for the petition.

The petitioner has provided the Performance Bond (Letter of Credit) as follows:

Name of Bonding Co.:	National City Bank
Letter of Credit No.:	SCL007952
Letter of Credit Date:	June 26, 2002
Letter of Credit Amount:	\$23,500.00

I recommend approval by the Board at this time.

Sincerely


Kenton C. Ward
Hamilton County Surveyor

KCW/llm

FINAL SITE CONSTRUCTION PLANS FOR:

NOBLESVILLE BUSINESS PARK STREET EXTENSION / LEGAL DRAIN RELOCATION

NORTH POINT BOULEVARD & 148TH STREET, NOBLESVILLE, INDIANA



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Entry Date: 3-30-04

Entered by: [Signature]



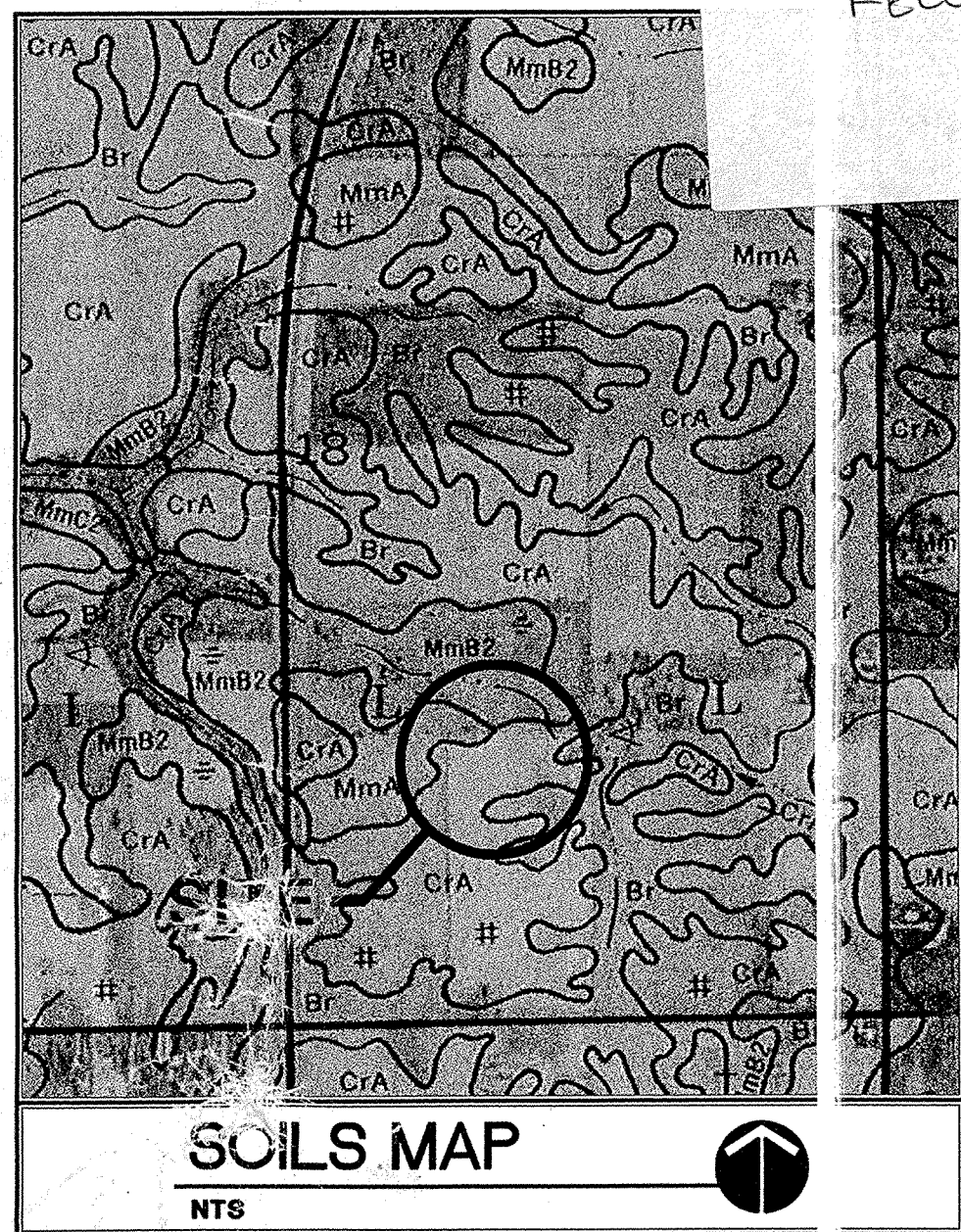
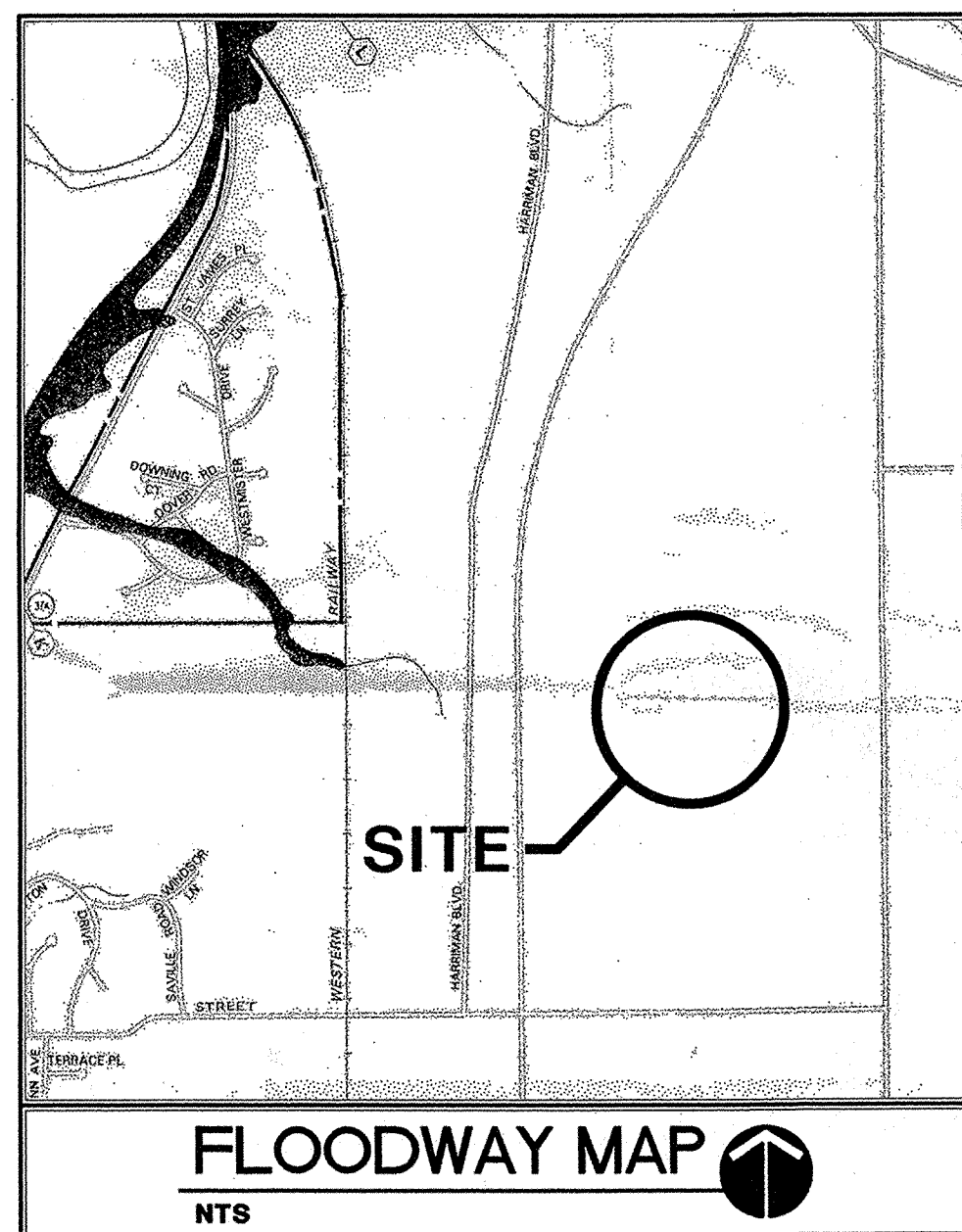
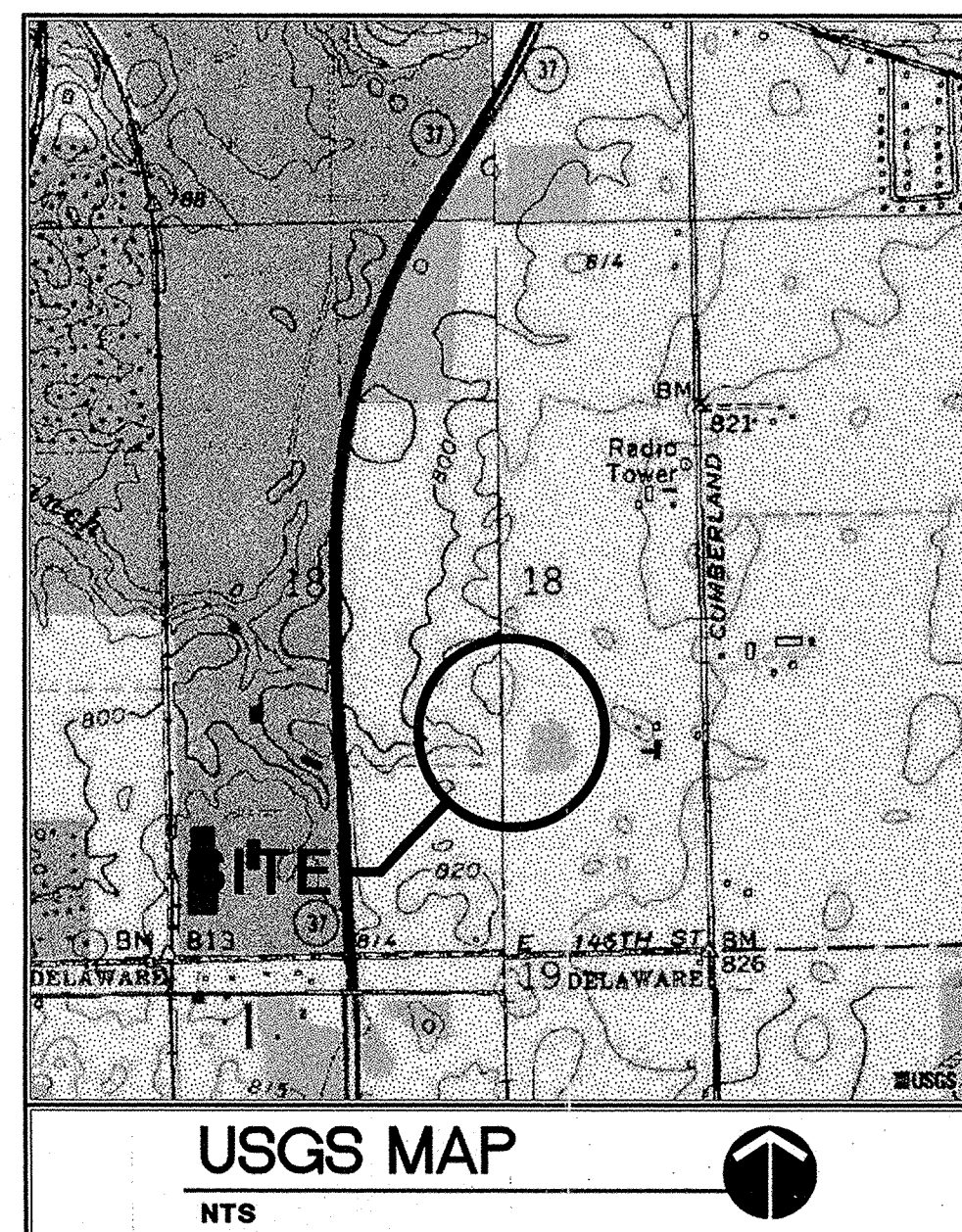
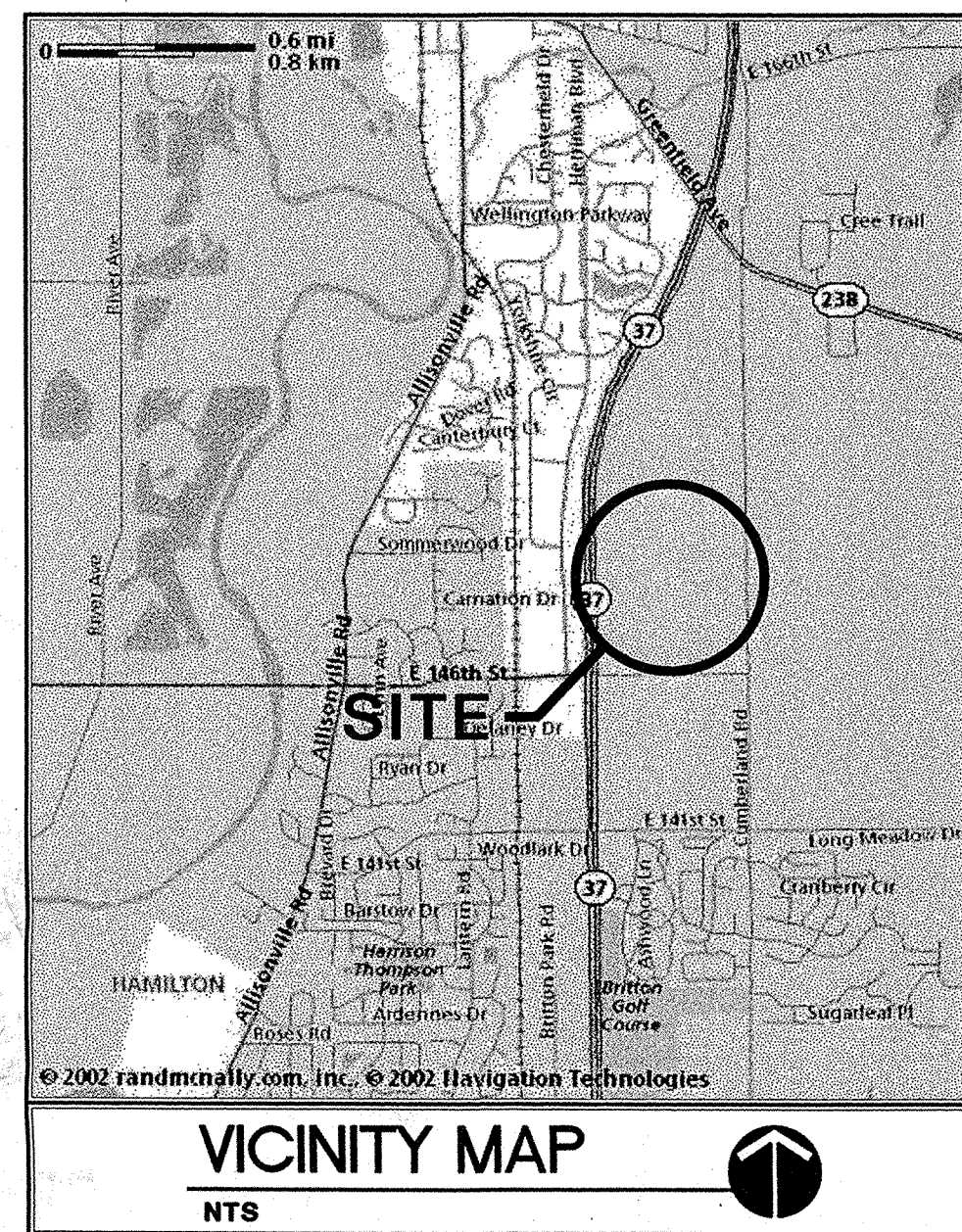
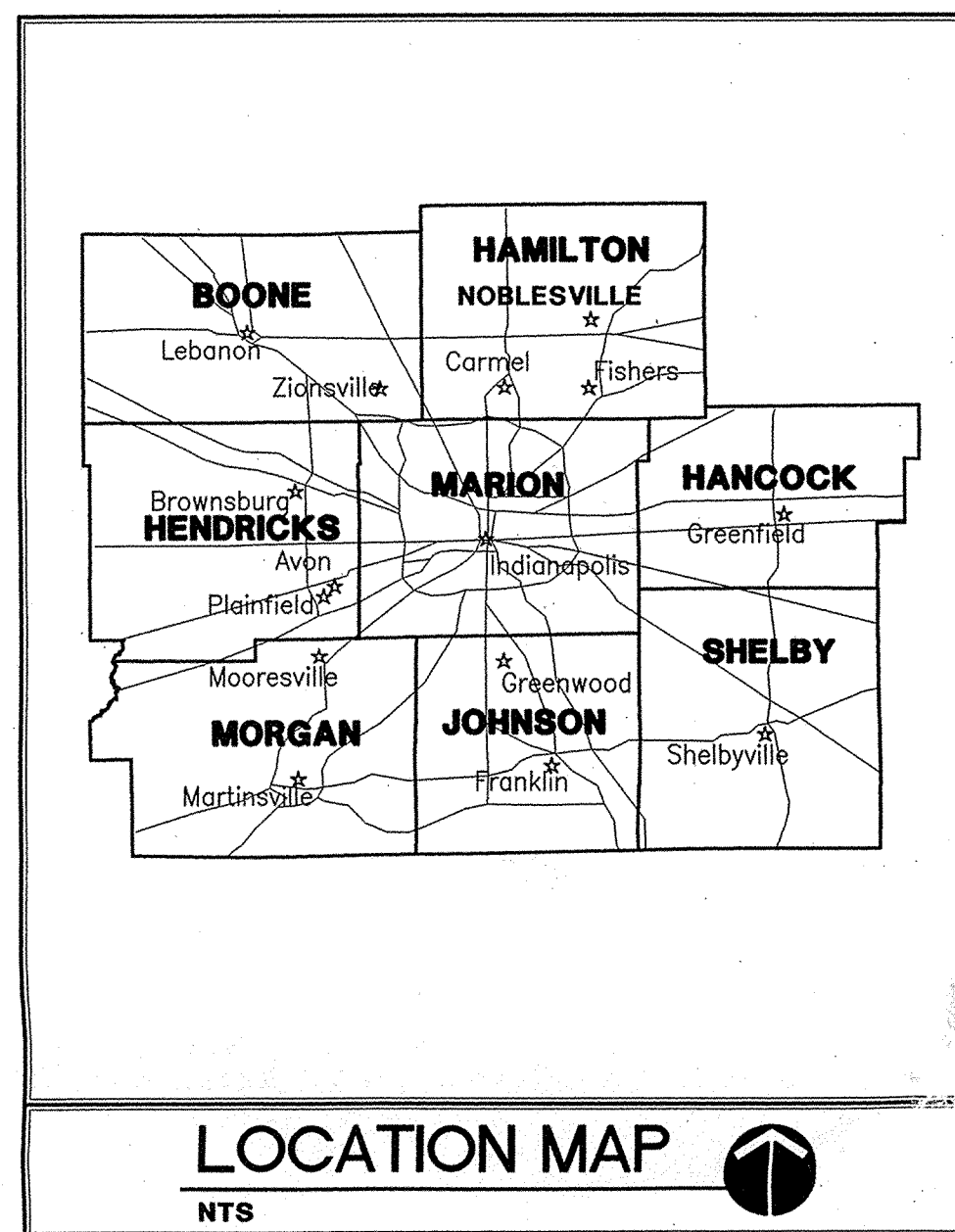
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REFERENCE MAPS:

McMAMON - OVERDORE
**PROPOSED
OVERALL
RELOCATION**



Scope Drawings
These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical, and electrical systems.
The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract.
On the basis of the general scope indicated or described, the trade contractor shall furnish all items required for the proper execution and completion of the work.

Revisions

Date	Drawn	Checked
00/00/00	RMG	DBH

SURVEY PROVIDED BY:

Weihe Engineers
10505 North College Avenue
Indianapolis, IN 46280
(317) 846-6611

American Consulting Engineers
4165 Millersville Road
Indianapolis, IN 46205
(317) 547-5580

LAND DESCRIPTION:

Southeast Quarter of Section 18, Township 18 North, Range 5 East.

BENCHMARK DESCRIPTION:

USC & GS N237
A STANDARD DISC FOUND AT SOUTHEAST CORNER OF 146TH STREET AND CUMBERLAND ROAD.
ELEVATION: 825.90 NAVD 1988

OPERATING AUTHORITIES:

GAS
Indiana Gas Company
15499 Stony Creek Way
Noblesville, IN 46060
(317) 776-5531

ELECTRIC
CINERGY/PSI
100 Mill Creek Road
Noblesville, IN 46060
(800) 521-2232

STREETS, STORM & SANITARY SEWER
Noblesville Engineering Department
16 South 10th Street
Noblesville, IN 46060
(317) 776-6363

PLANNING
Noblesville Planning Department
16 South 10th Street
Noblesville, IN 46060
(317) 776-6325

WATER
Indiana-American Water Company
835 Wayne Street
Noblesville, IN 46060
(317) 773-2497

CABLE TELEVISION
Insight Cablevision
15229 Stony Creek Way
Noblesville, IN 46060
(317) 776-0660

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Indianapolis, IN 46229
(800) 382-5544

TELEPHONE
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Indianapolis, IN 46229
(317) 252-5005

STATE HIGHWAY
INDOT,
PO Box 117
Tipton, IN 46072
(765) 675-7401

SHEET INDEX:

- C100 SITE COVER SHEET
- C101 OVERALL SITE PLAN
- C102 DETENTION POND PLAN
- C103 STREET PLAN & PROFILE
- C104 STORM SEWER PLAN & PROFILE
- C105 STORM SEWER PLAN & PROFILE
- C106 STORM SEWER PLAN & PROFILE
- C107 SANITARY SEWER PLAN & PROFILE
- C108 WATER LINE PLAN & PROFILE
- C109 EROSION CONTROL PLAN
- C110 SITE DETAILS

FLOOD DATA NOTE:

The subject tract does not lie within Special Flood Hazard Zone A as plotted by scale on the Federal Emergency Management Agency, National Flood Insurance Program, Flood Insurance Rate Map (FIRM) Community Panel 180082 0015E, dated September 24, 1982.

ZONING INFORMATION:

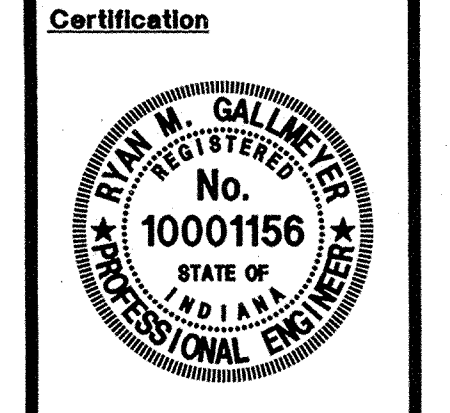
The subject tract is zoned PB (Planned Business) as shown on the City of Noblesville Official Zoning Map dated April 13, 1998. Supplied by the City of Noblesville Department of Planning and Development.

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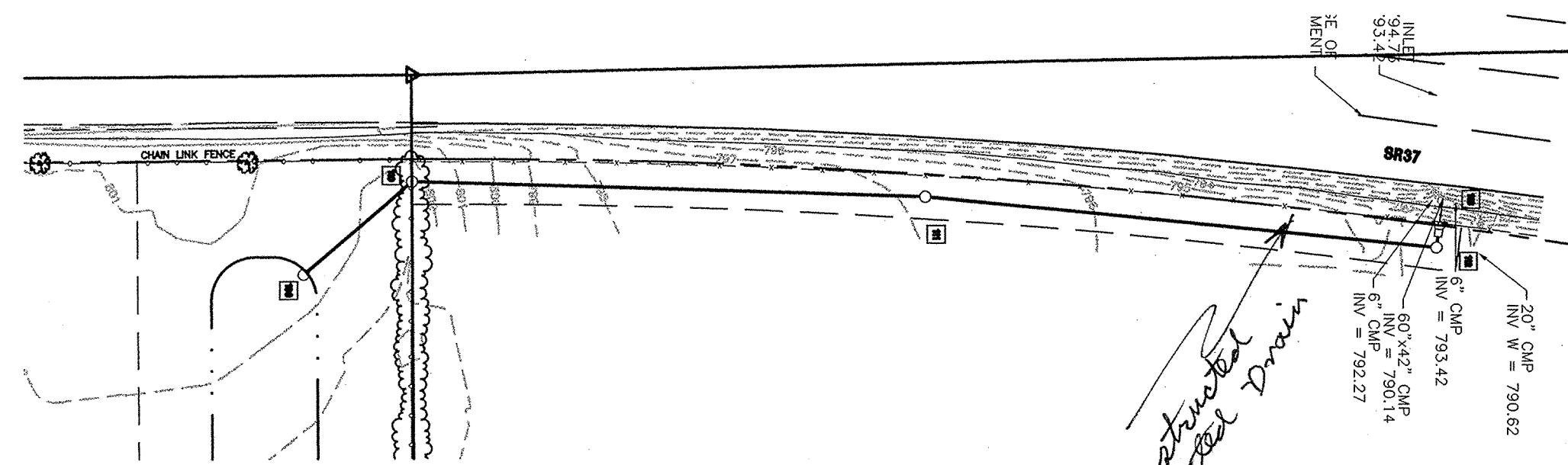


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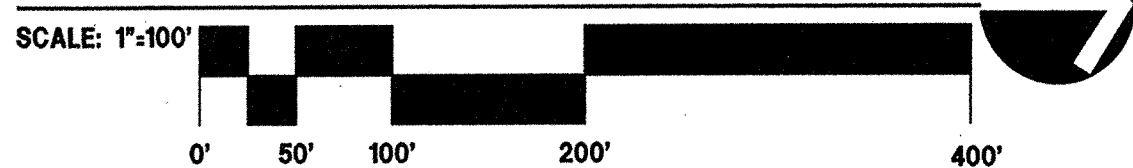
SITE COVER SHEET
NOBLESVILLE BUSINESS PARK
NORTH POINT BOULEVARD & 148TH STREET
NOBLESVILLE, INDIANA



Sheet Number
C100
Project Number
21555



OFFSITE LEGAL DRAIN DETAIL:



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Scope Drawings

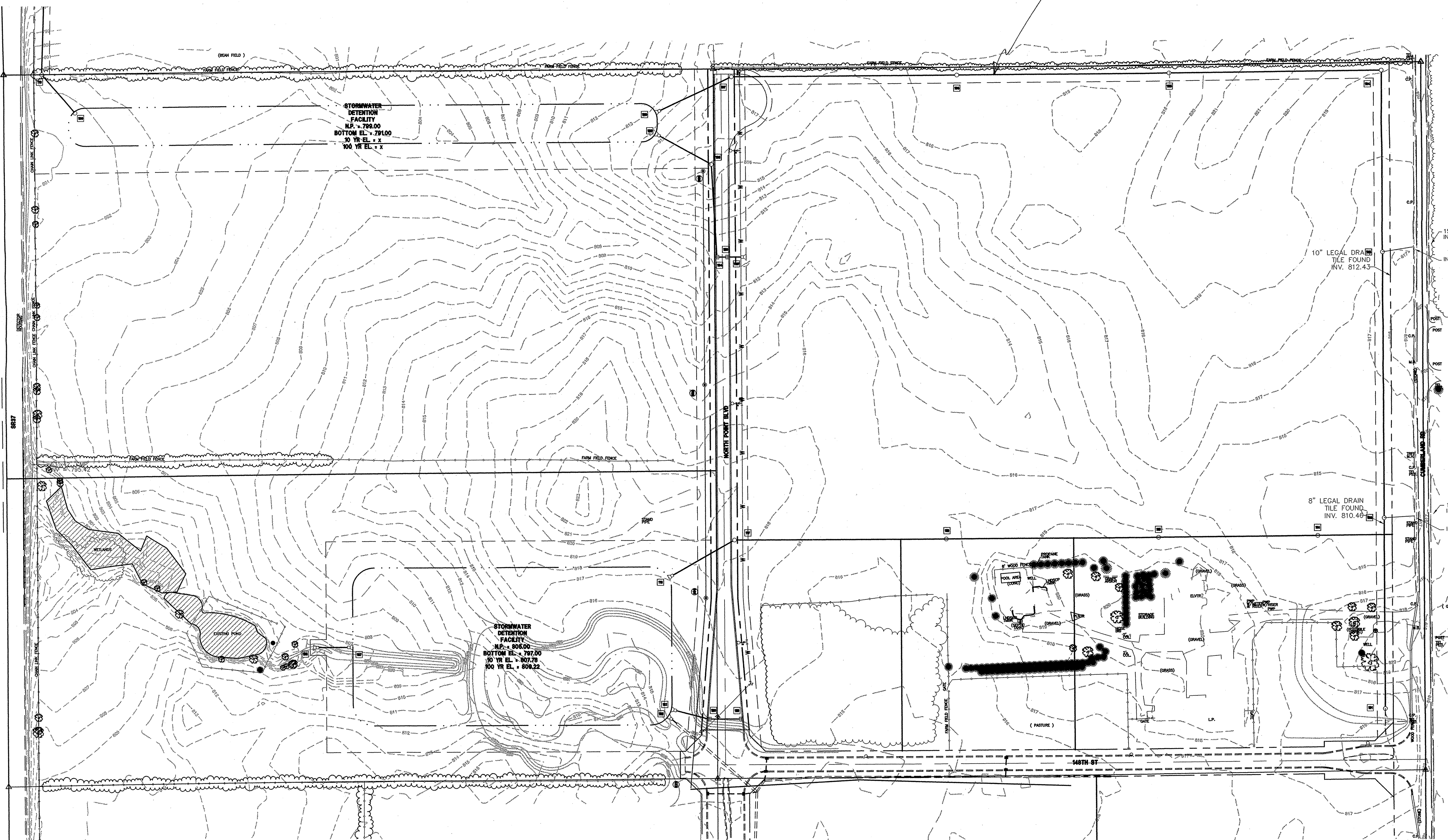
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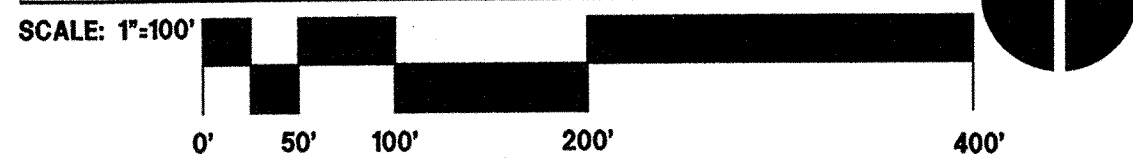
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Revisions

Date	Drawn	Checked
00/00/00	RMG	DBH



OVERALL SITE PLAN:



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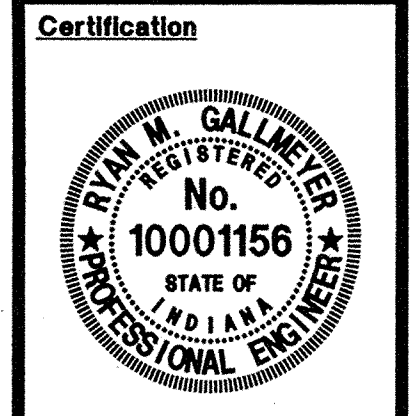
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OVERALL SITE PLAN
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Sheet Number
C101
 Project Number
21555



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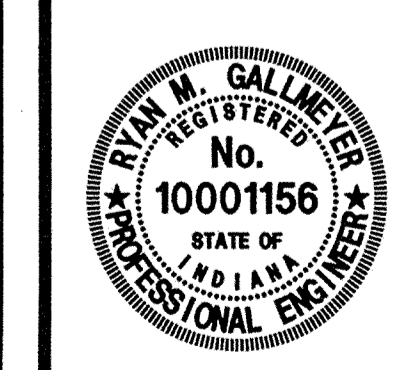
Revisions

Date	Drawn	Checked
00/00/00	RMG	DBH

Date	Drawn	Checked
00/00/00	RMG	DBH

DETENTION POND PLAN
NOBLESVILLE BUSINESS PARK
NORTH POINT BOULEVARD & 148TH STREET
NOBLESVILLE, INDIANA

Certification

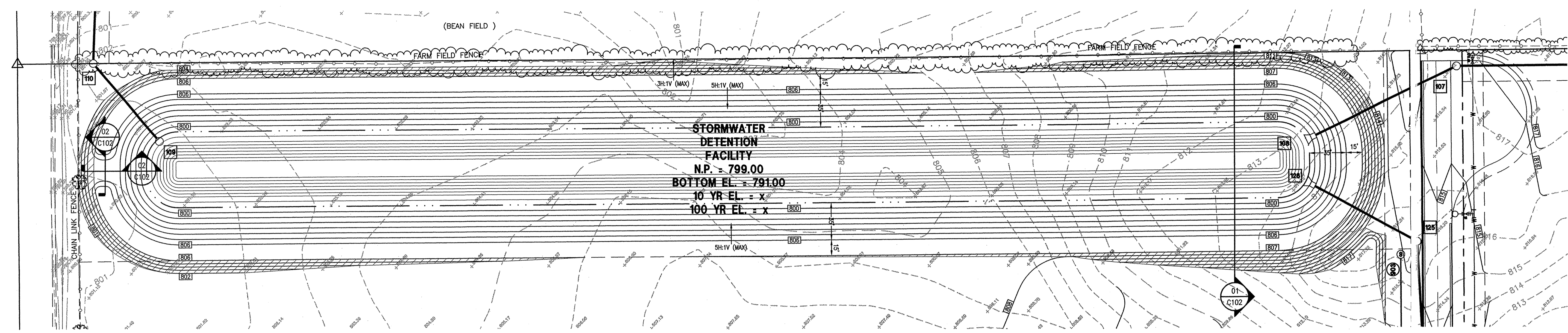


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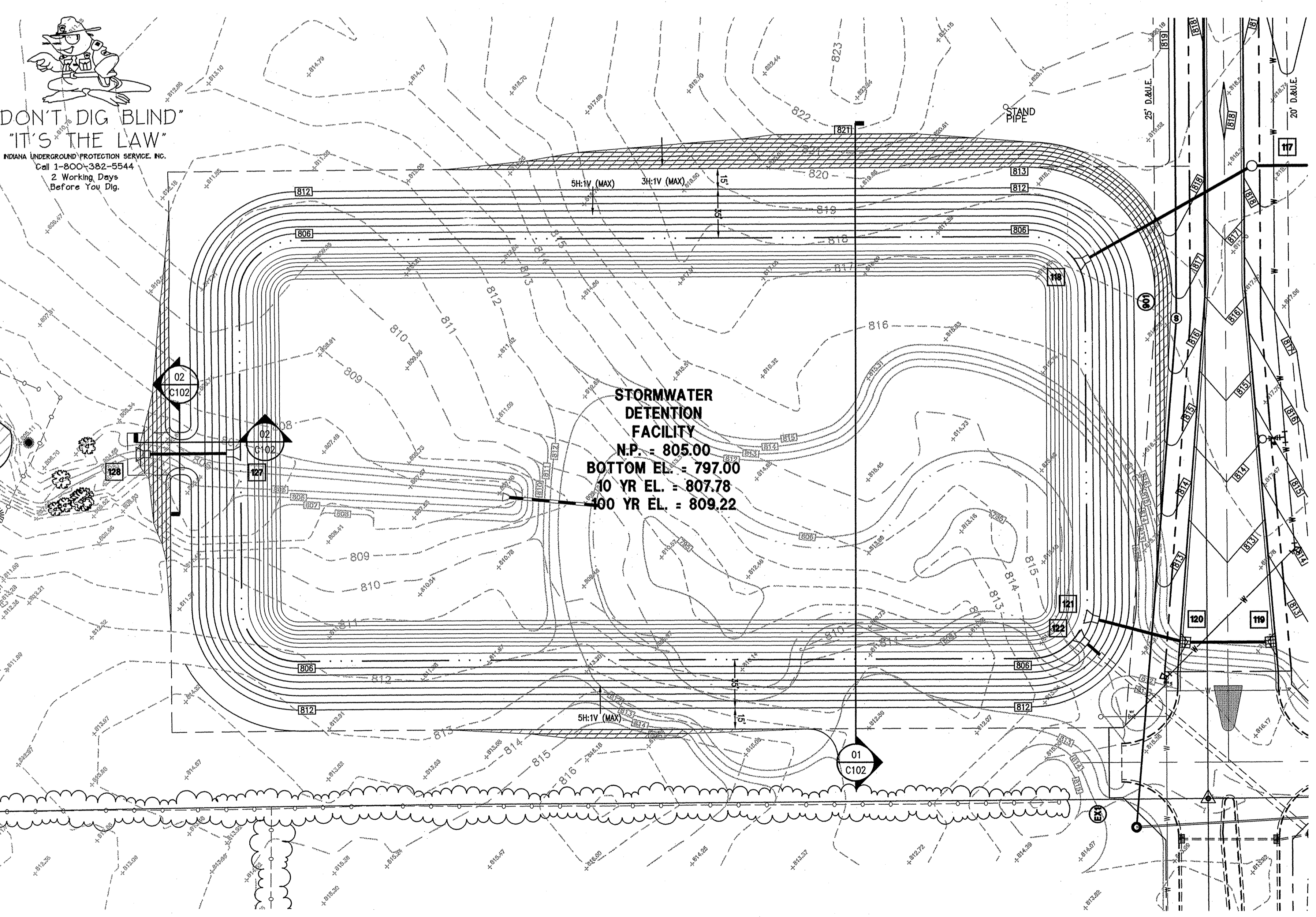
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Project Number

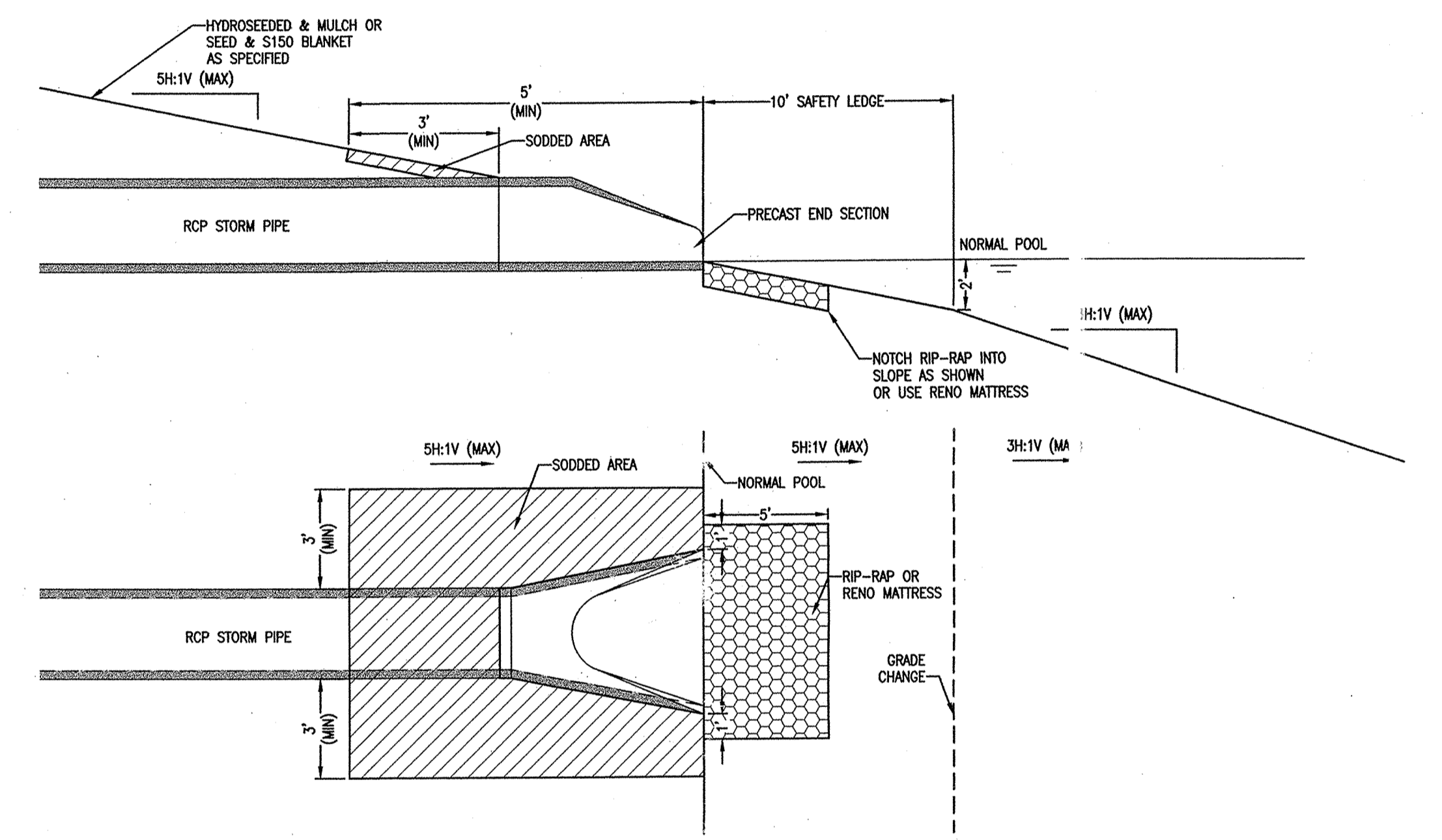
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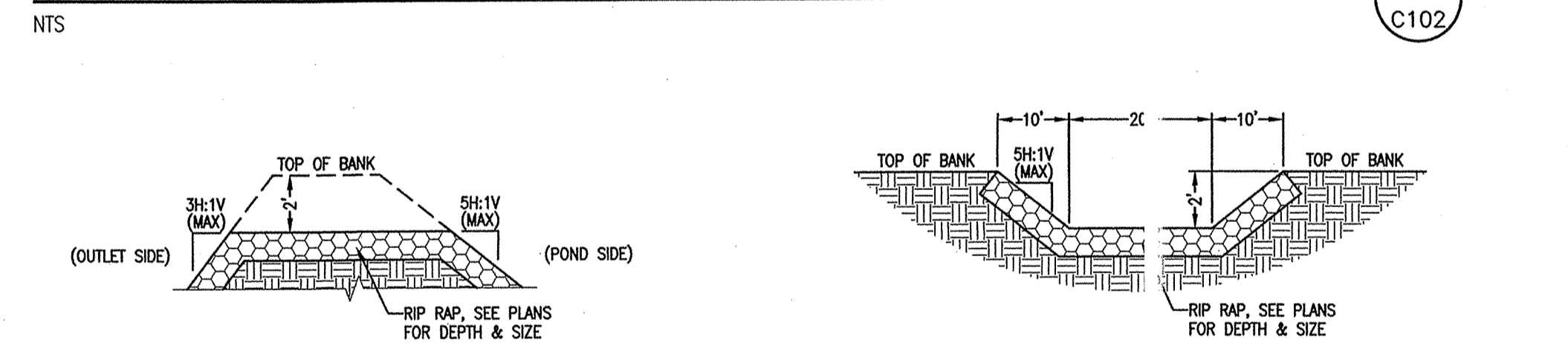
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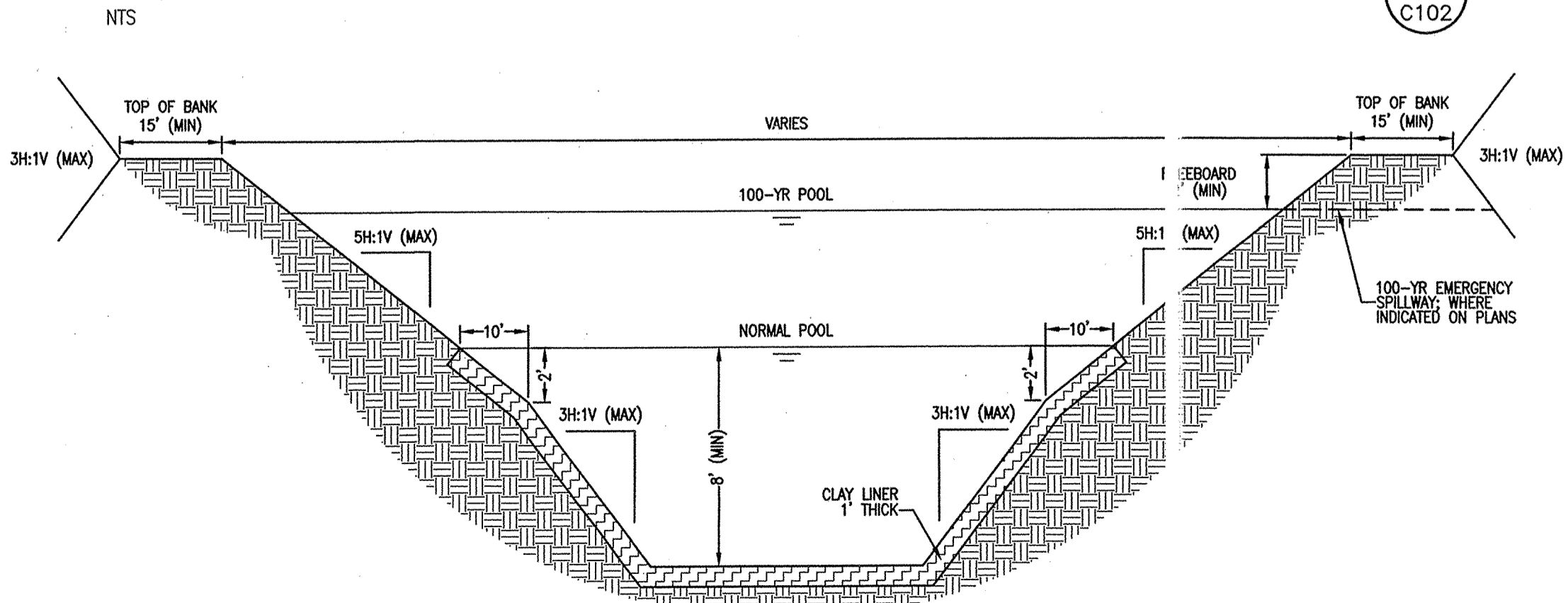
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POND OUTLET



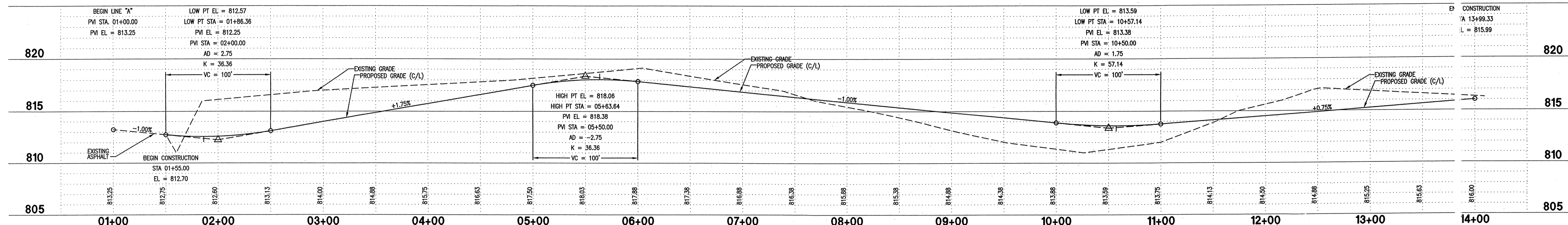
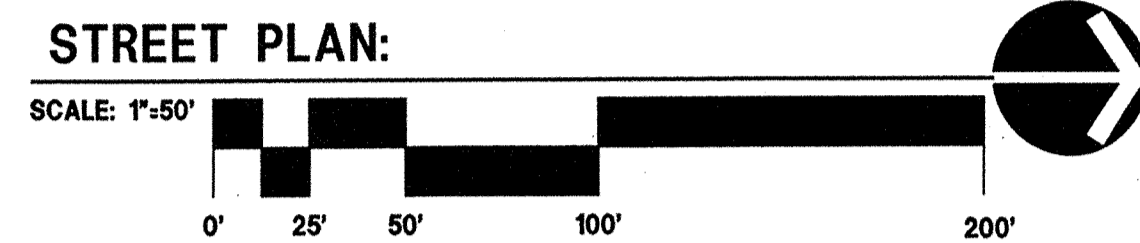
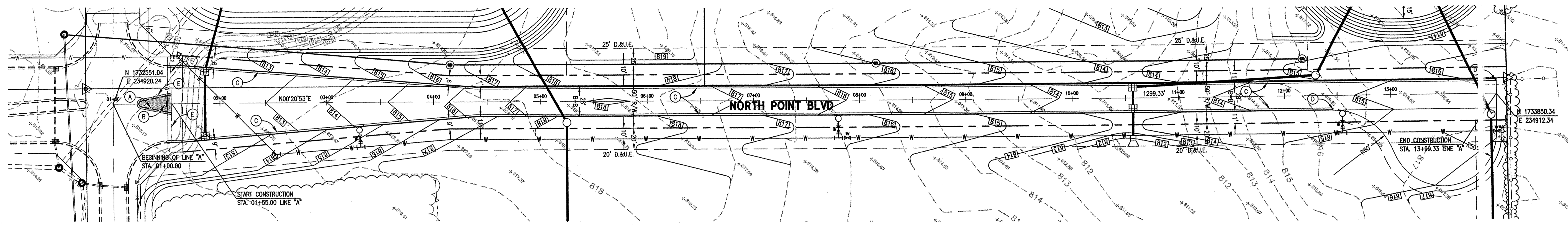
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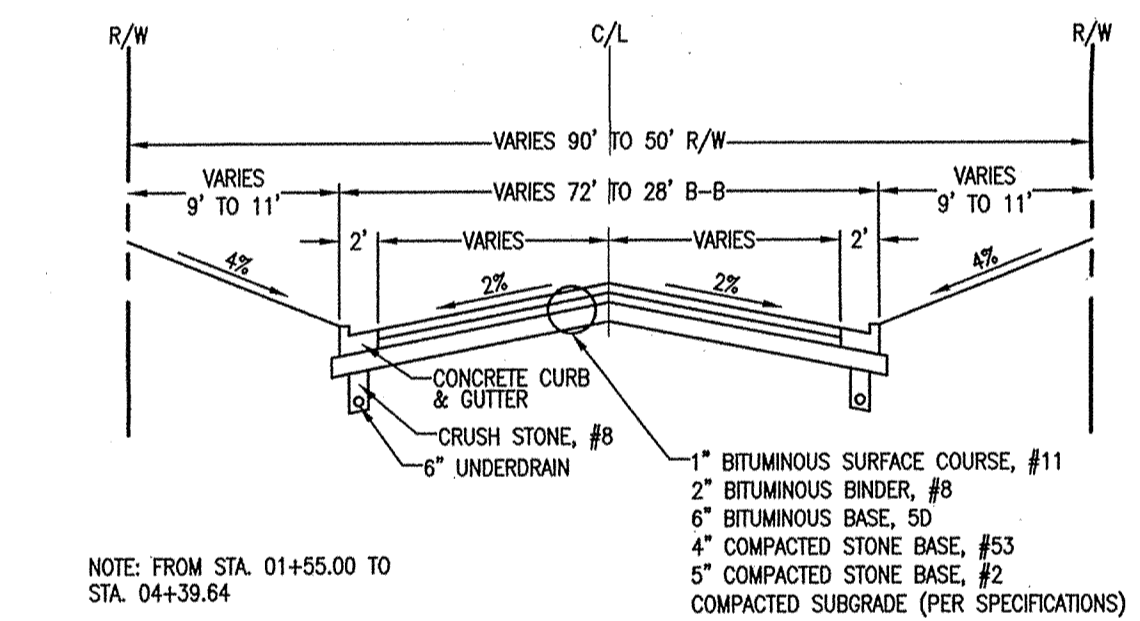
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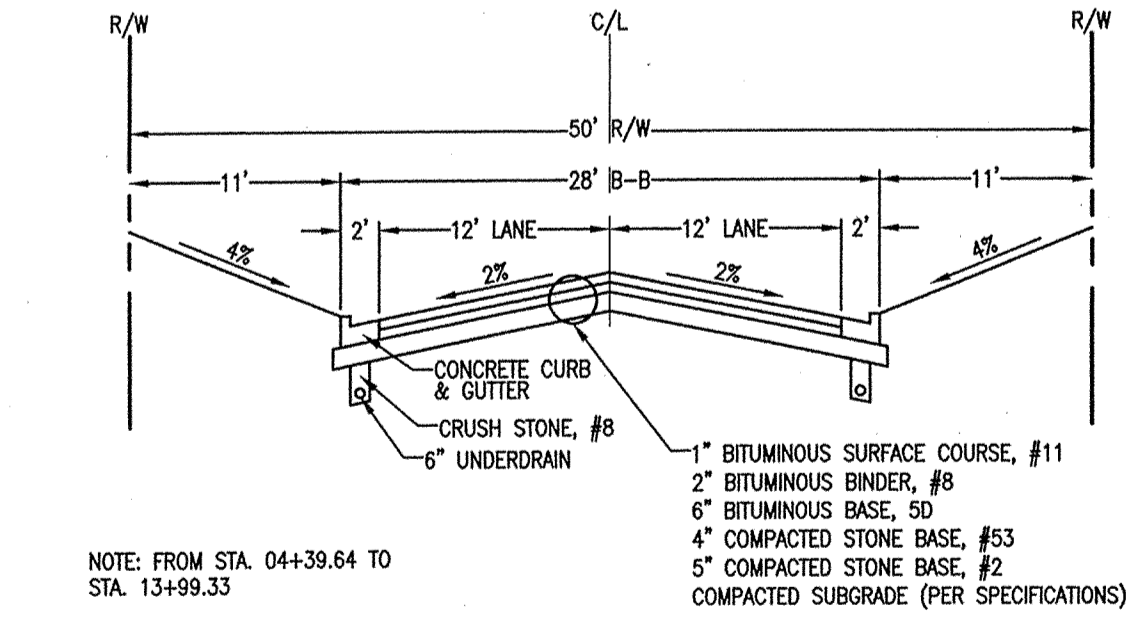
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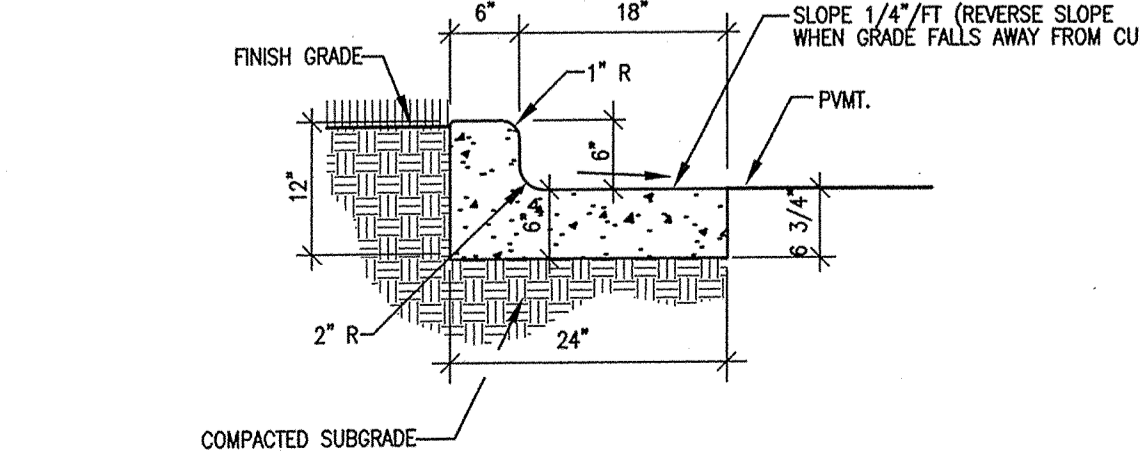
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VERTICAL 1"=5'



TYPICAL ROAD CROSS-SECTION (01)
C103



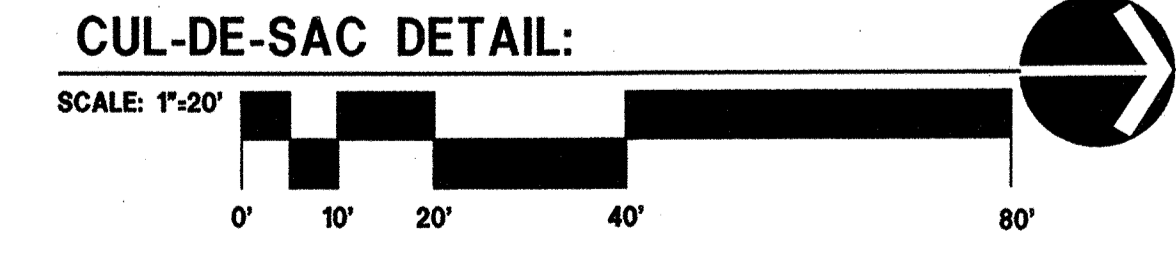
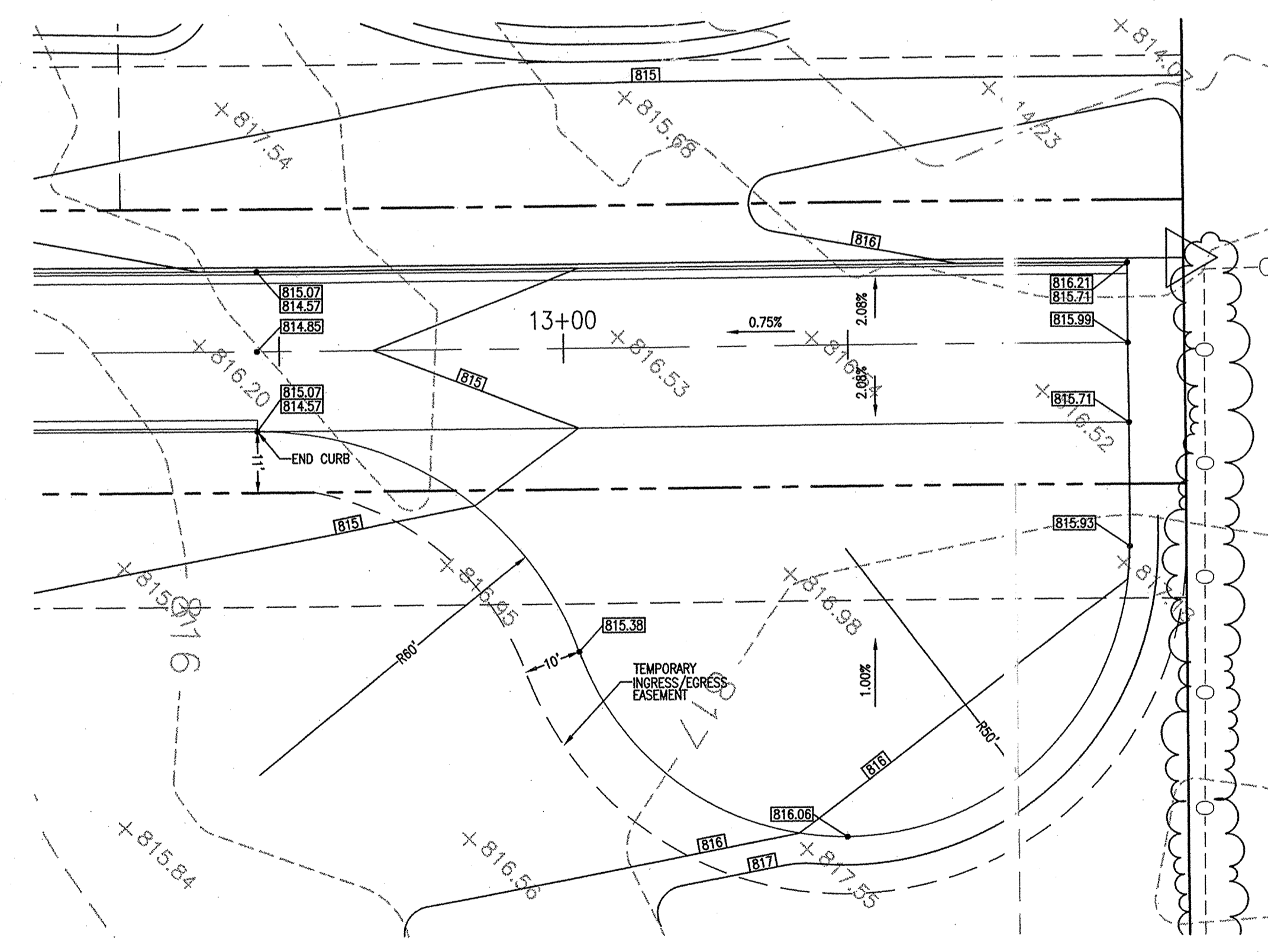
TYPICAL ROAD CROSS-SECTION (02)
C103



CONCRETE CURB & GUTTER (03)
C103

- PLAN LEGEND:**
- STANDARD DUTY ASPHALT PER DETAIL 01/C103
 - PROPERTY BOUNDARY LINE
 - RIGHT-OF-WAY LINE

- PLAN KEY NOTES:**
- (A) DEMO EXISTING CURB
 - (B) ASPHALT PAVE EXISTING ISLAND PER DETAIL 01/C103
 - (C) CONCRETE CURB & GUTTER PER DETAIL 03/C103
 - (D) END CURB
 - (E) SAW CUT



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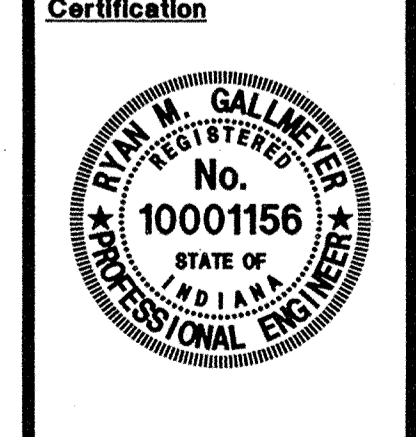
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Revisions

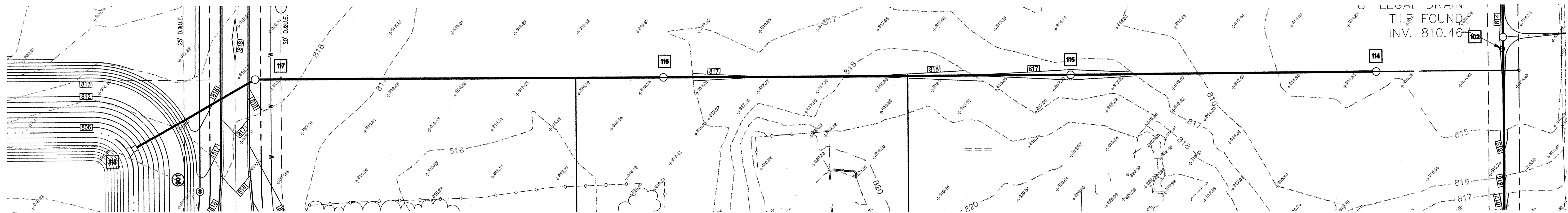
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Date	Drawn	Checked
00/00/00	RMG	DBH

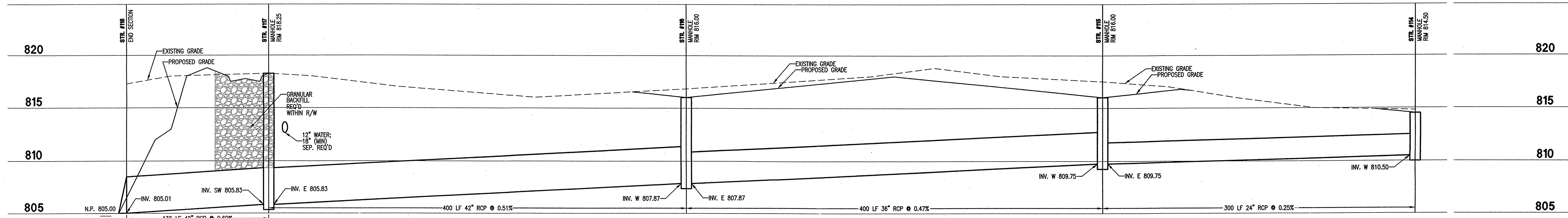
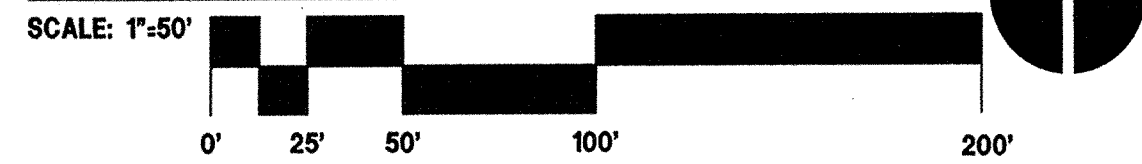
STREET PLAN & PROFILE
NOBLESVILLE BUSINESS PARK
NORTH POINT BOULEVARD & 148TH STREET
NOBLESVILLE, INDIANA



Sheet Number
C103
Project Number
21555

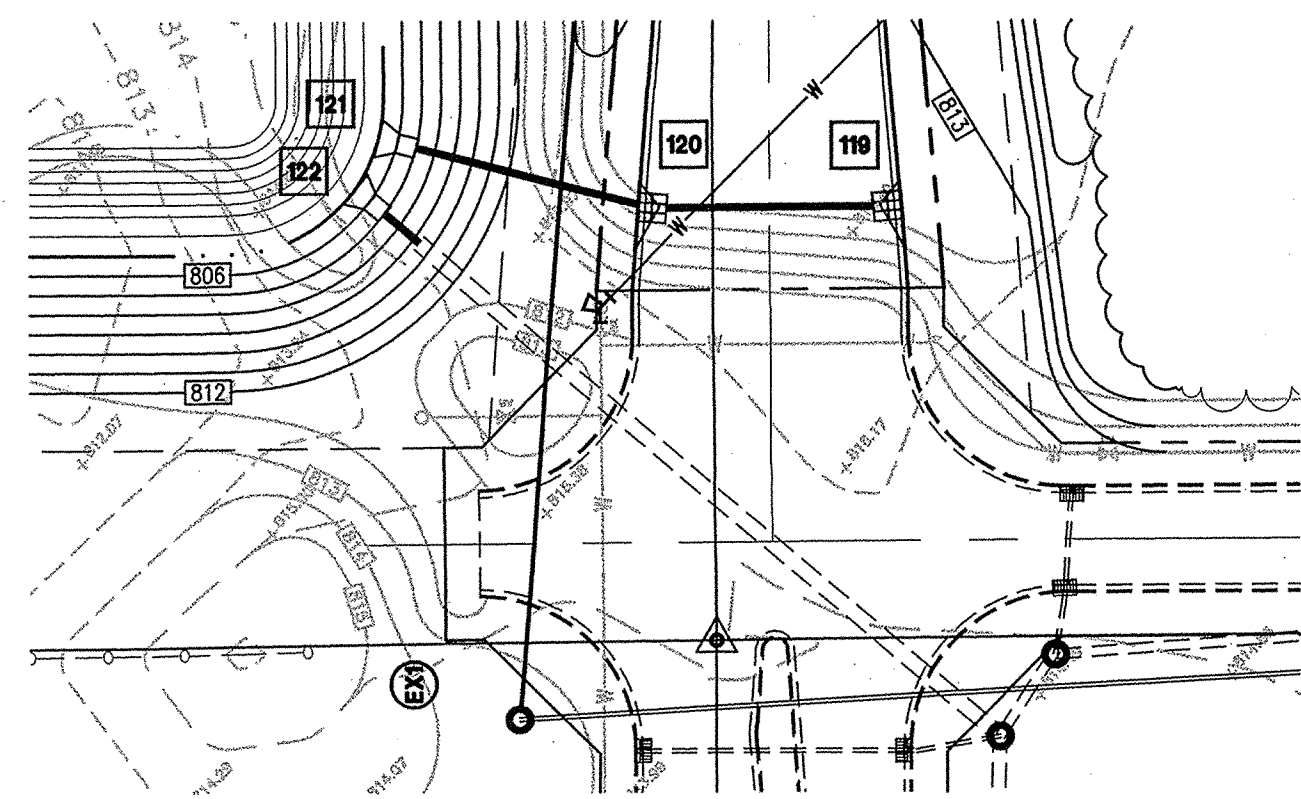


STORM SEWER PLAN:

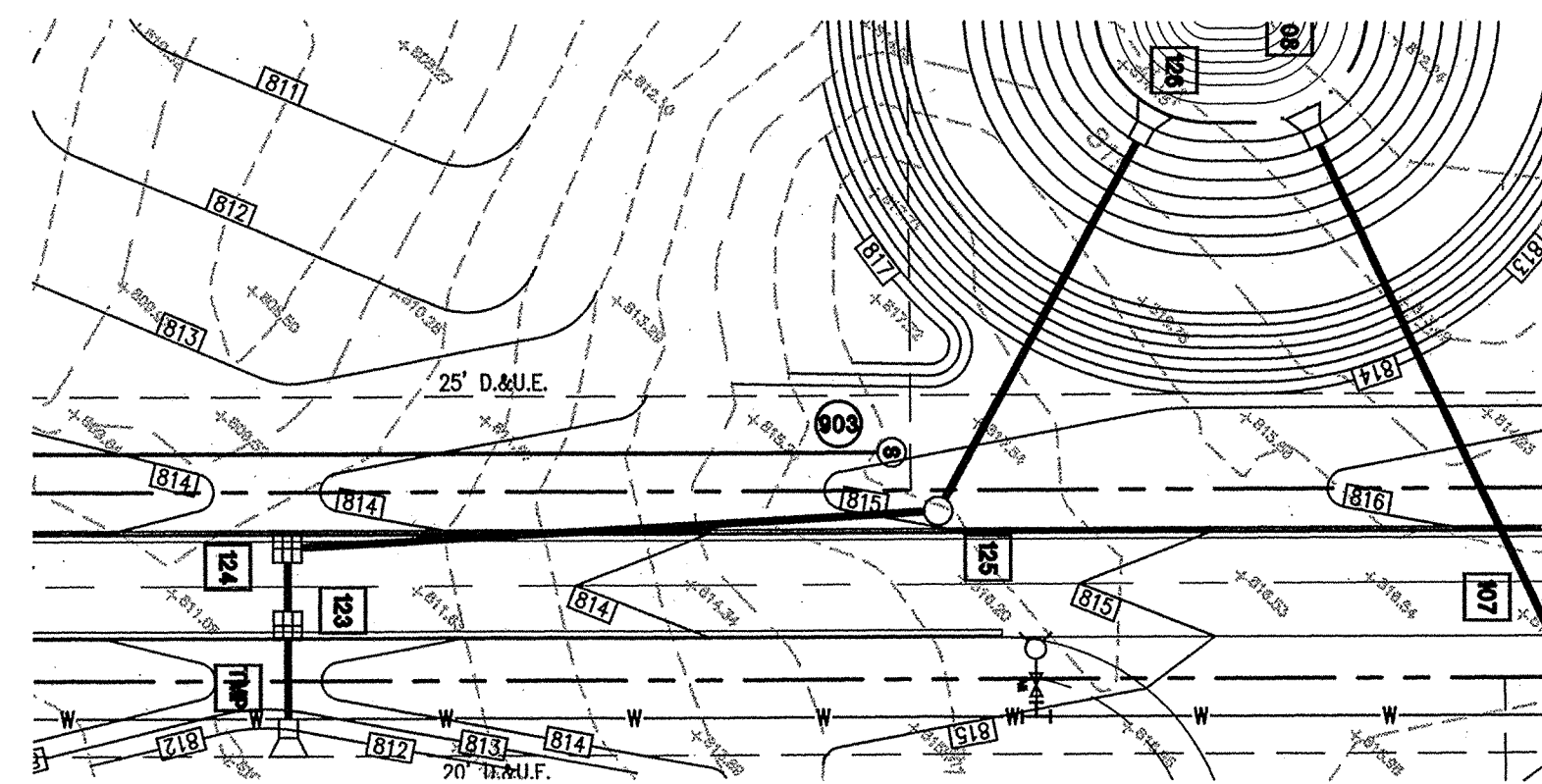
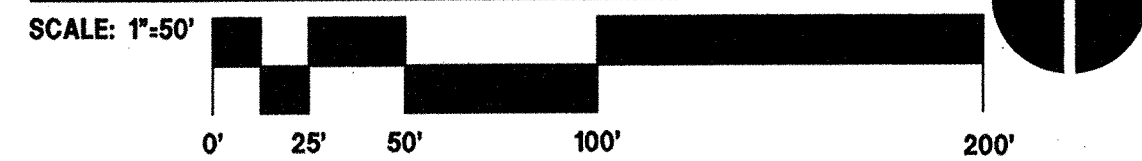


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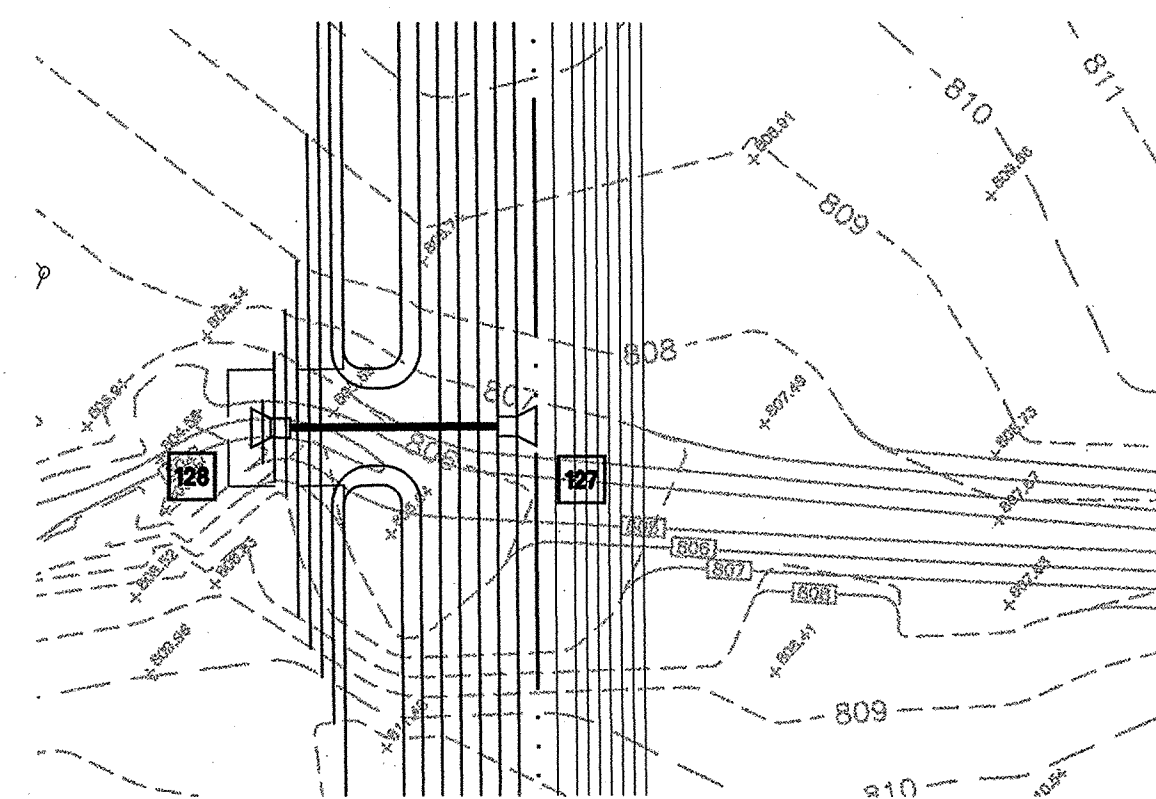
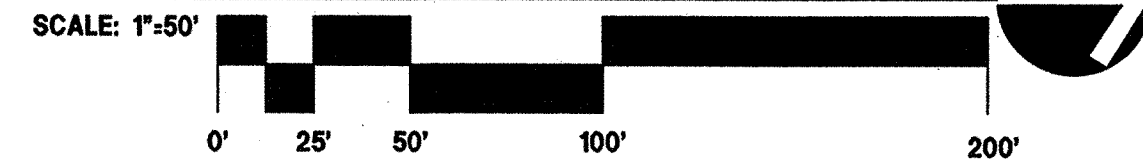
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VERTICAL 1"=5'



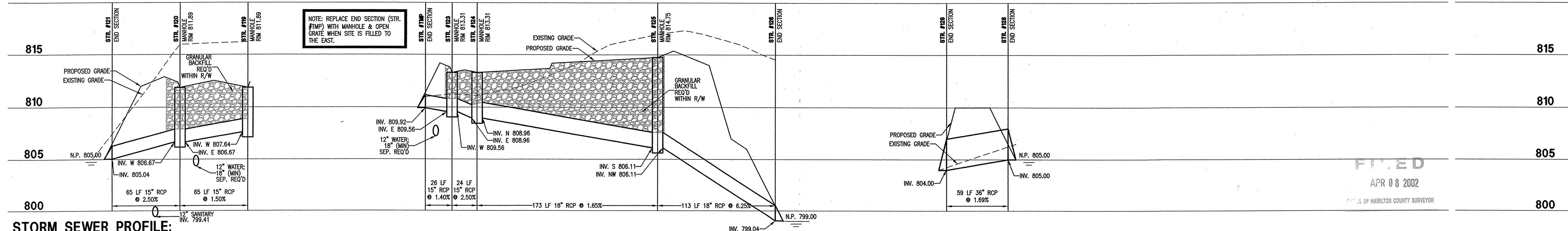
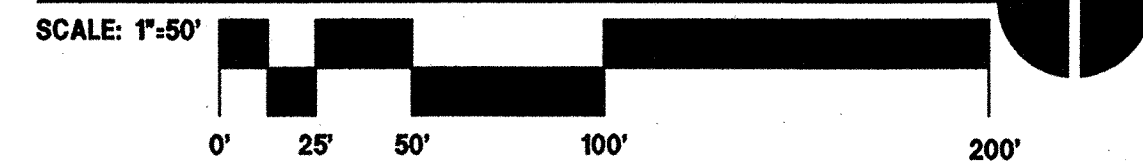
STORM SEWER PLAN:



STORM SEWER PLAN:



STORM SEWER PLAN:



STORM SEWER PROFILE:

SCALE: HORIZONTAL 1"=50'
VERTICAL 1"=5'



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Revisions

Date	Drawn	Checked
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STORM SEWER PLAN & PROFILE
NOBLESVILLE BUSINESS PARK
NORTH POINT BOULEVARD & 148TH STREET
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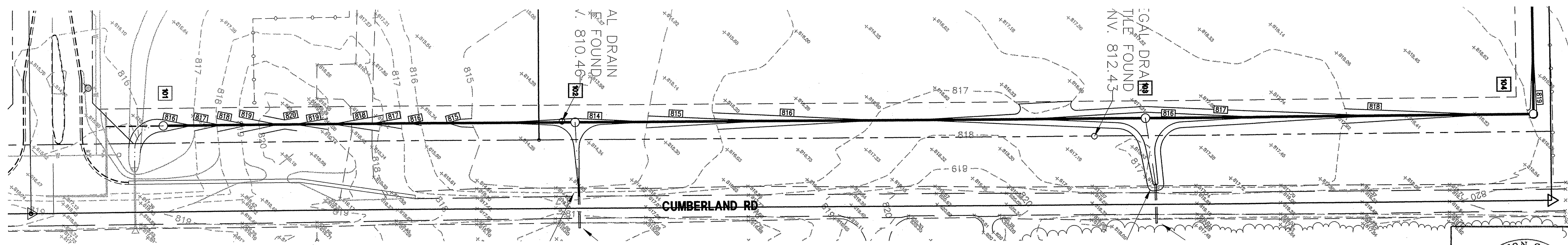


Sheet Number

C104

Project Number

21555



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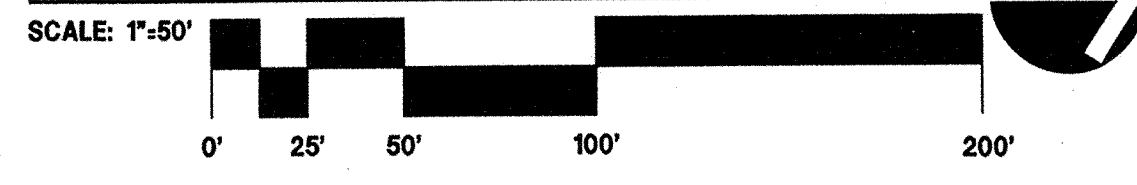


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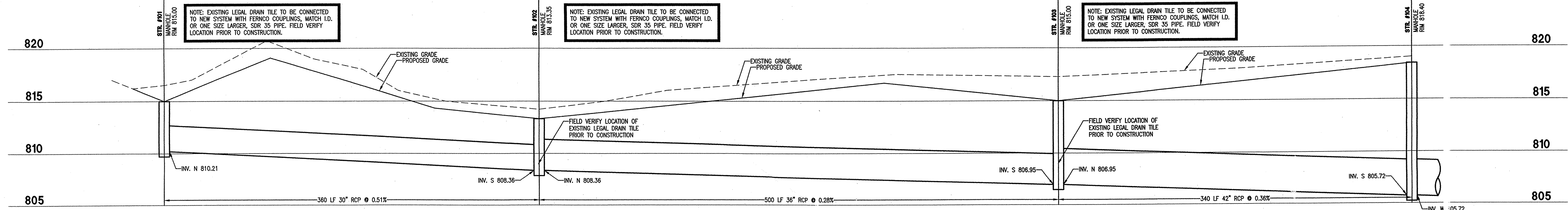
STORM SEWER PLAN:



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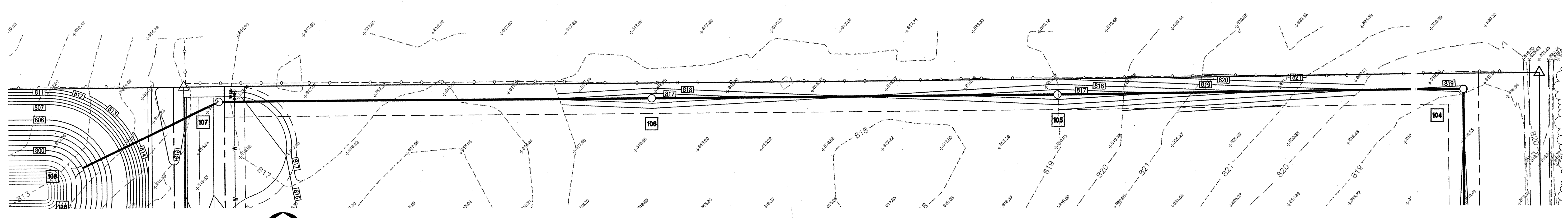
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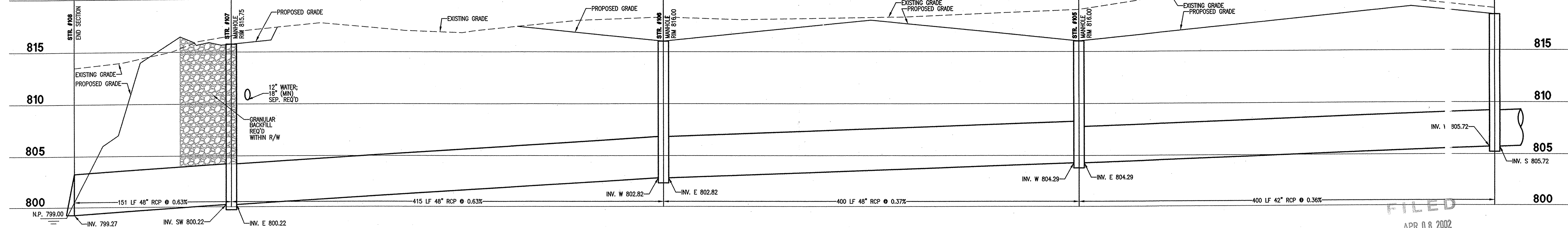
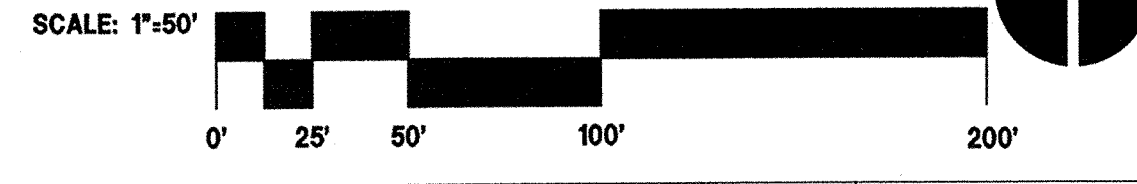
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SCALE: HORIZONTAL 1"=50'
VERTICAL 1"=5'

Date	Drawn	Checked
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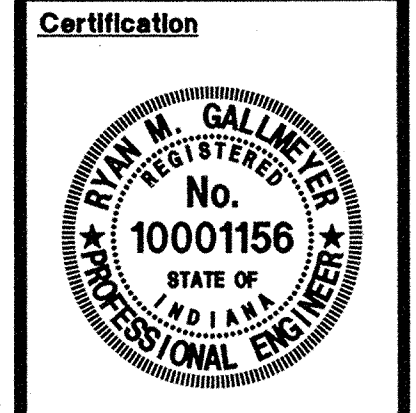
STORM SEWER PLAN:



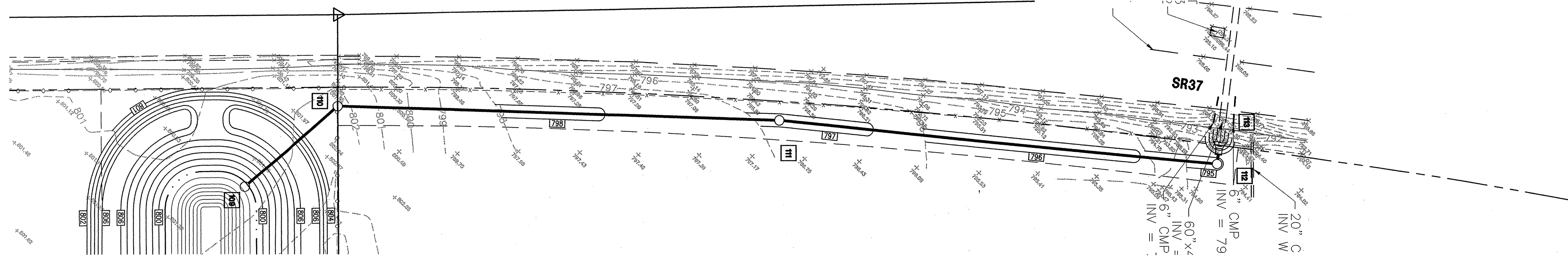
STORM SEWER PROFILE:

SCALE: HORIZONTAL 1"=50'
VERTICAL 1"=5'

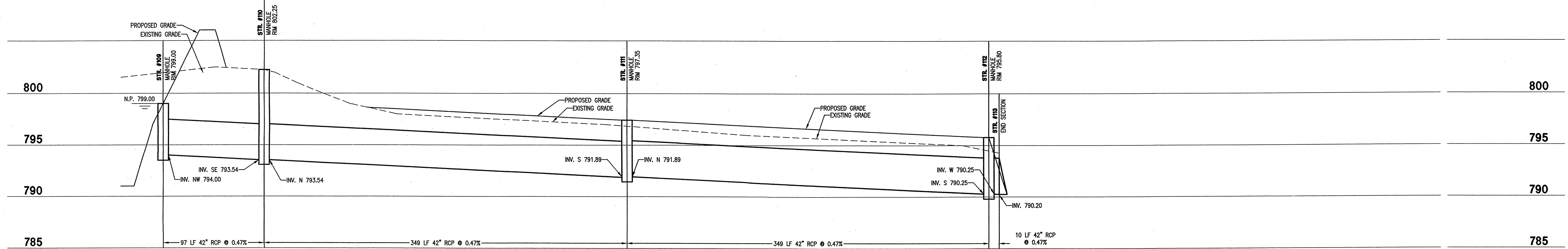
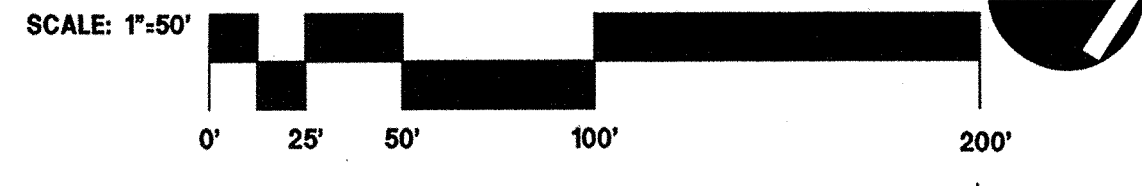
STORM SEWER PLAN & PROFILE
NOBLESVILLE BUSINESS PARK
NORTH POINT BOULEVARD & 148TH STREET
NOBLESVILLE, INDIANA



Sheet Number
C105
Project Number
21555



STORM SEWER PLAN:



STORM SEWER PROFILE:

SCALE: HORIZONTAL 1"=50'
VERTICAL 1"=5'



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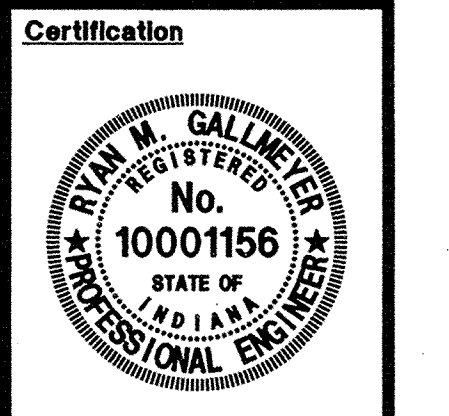
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Revisions

No.	Description

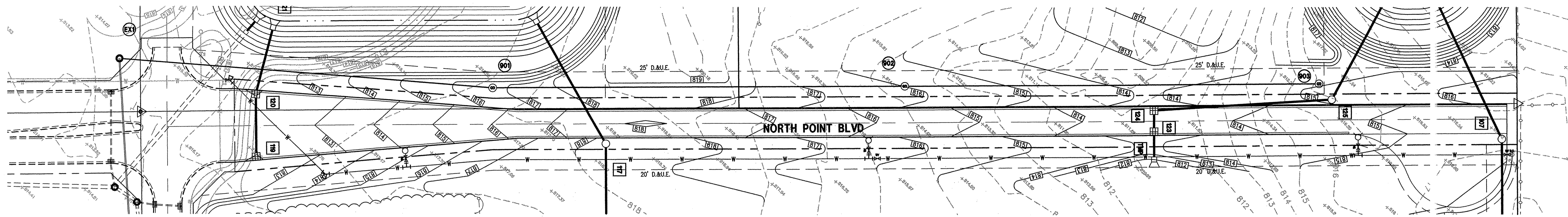
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STORM SEWER PLAN & PROFILE
NOBLESVILLE BUSINESS PARK
NORTH POINT BOULEVARD & 148TH STREET
NOBLESVILLE, INDIANA

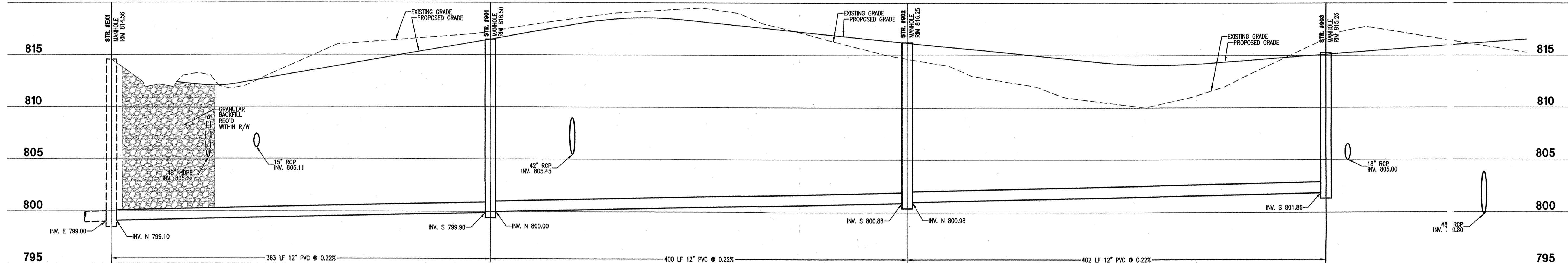
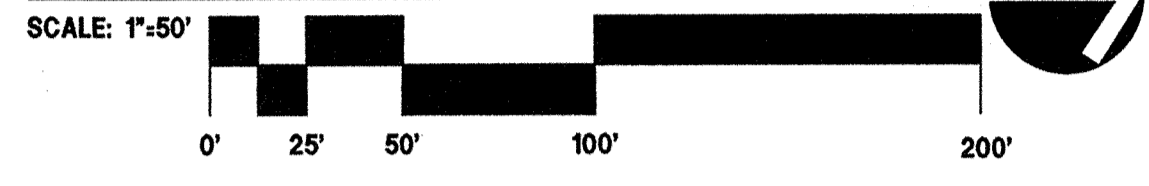


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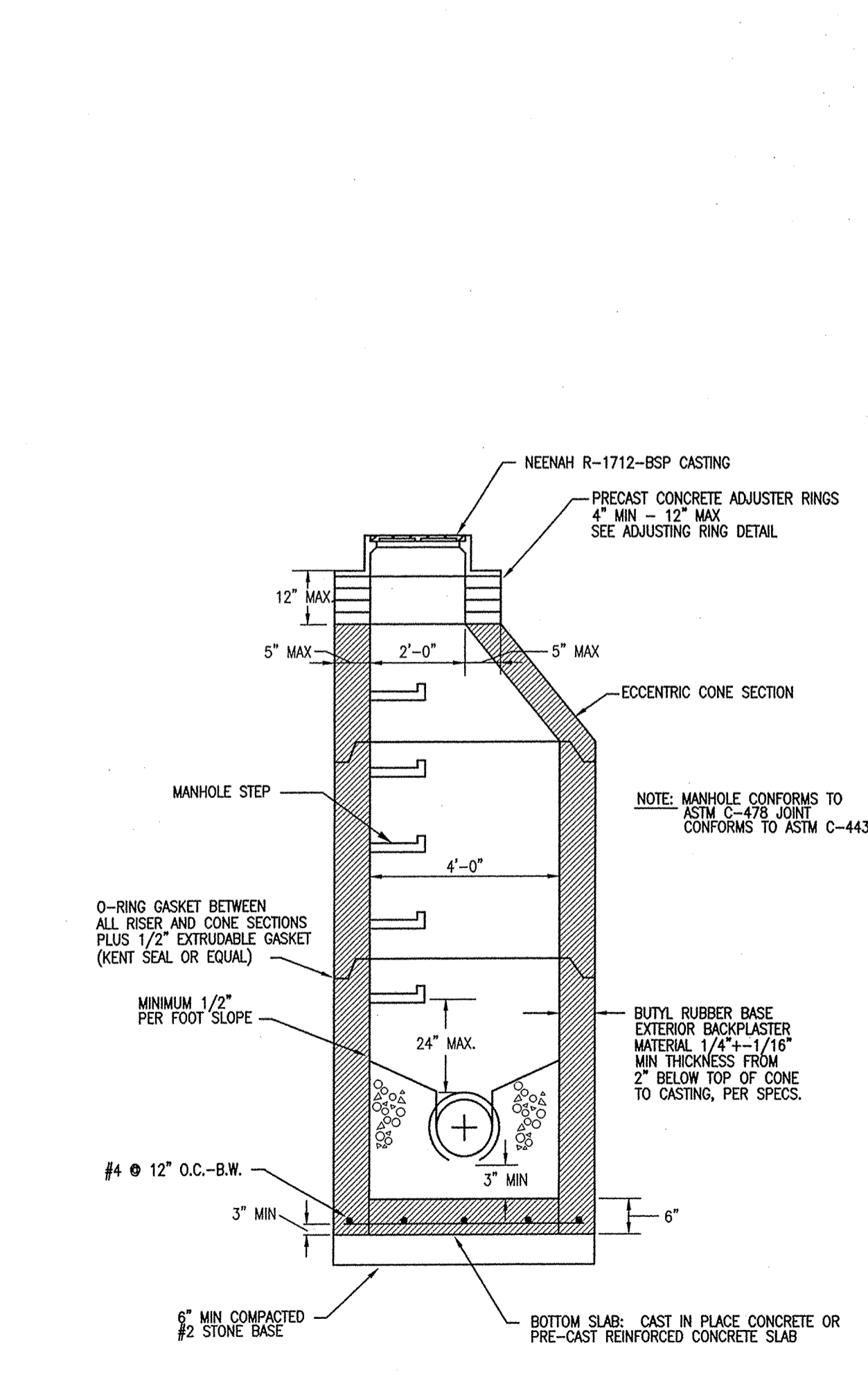


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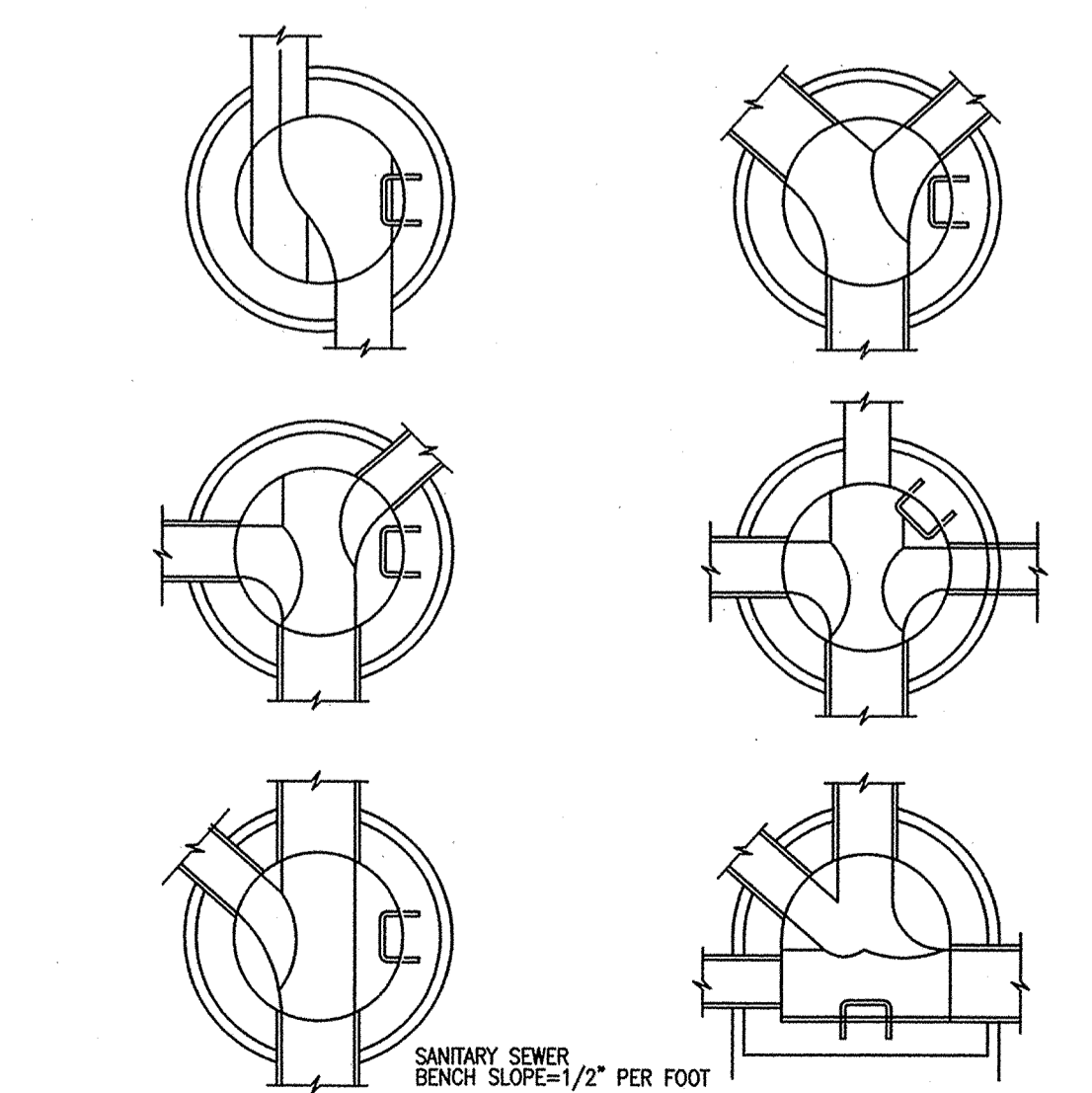
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SCALE: HORIZONTAL 1\"/>



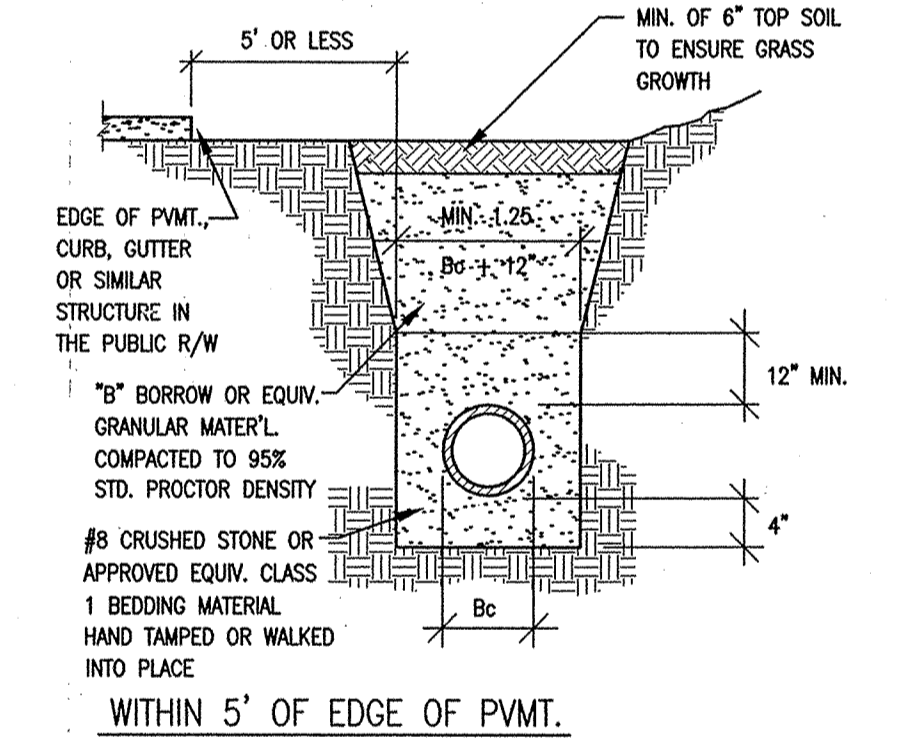
SANITARY SEWER MANHOLE

01
C107



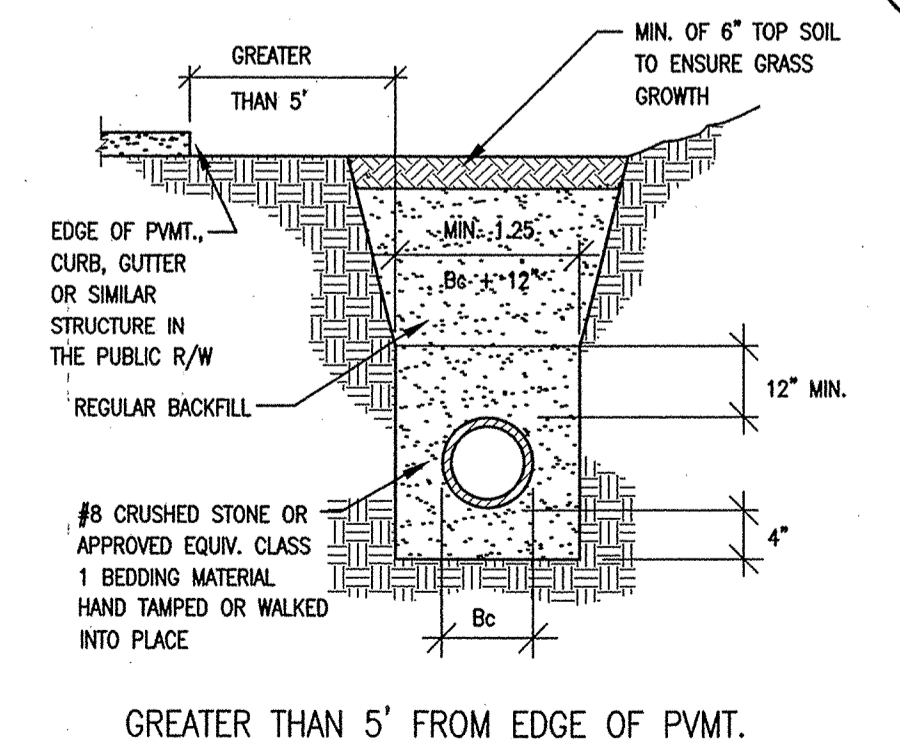
STANDARD MANHOLE BENCHES

02
C107



PLASTIC PIPE (PVC & HDPE) BEDDING & BACKFILL DETAIL

03
C107



PLASTIC PIPE (PVC & HDPE) BEDDING & BACKFILL DETAIL

04
C107

CSO
Architecture
Engineering
Interiors
Landscape Architecture
Land Surveying

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280 East 96th Street
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Indianapolis, Indiana 46240
317.848.7800
FAX 317.574.0957
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Scope Drawings

These drawings indicate the general scope of the project in terms of architectural design, control, the dimensions of the building, the major structural elements and the type of structural, mechanical, and electrical systems. The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract.

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Revisions

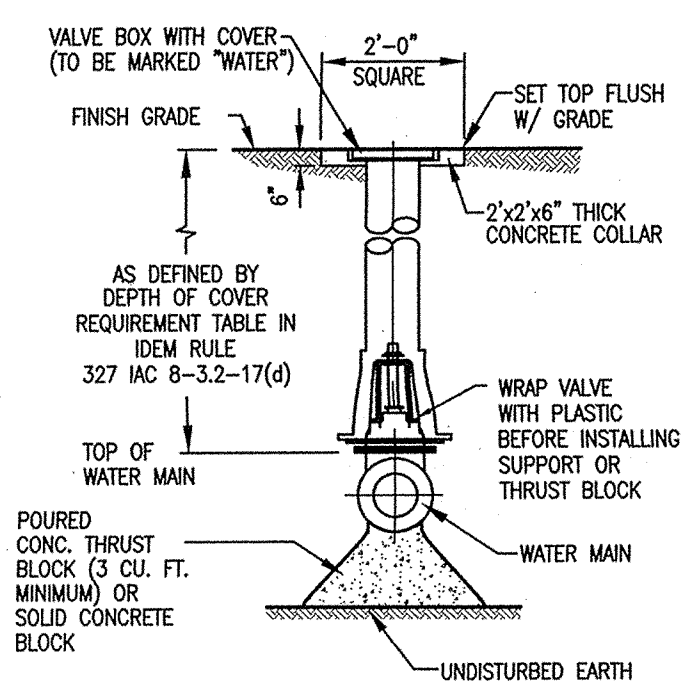
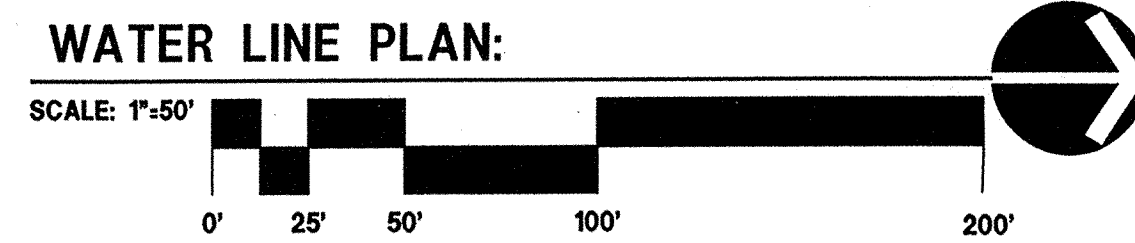
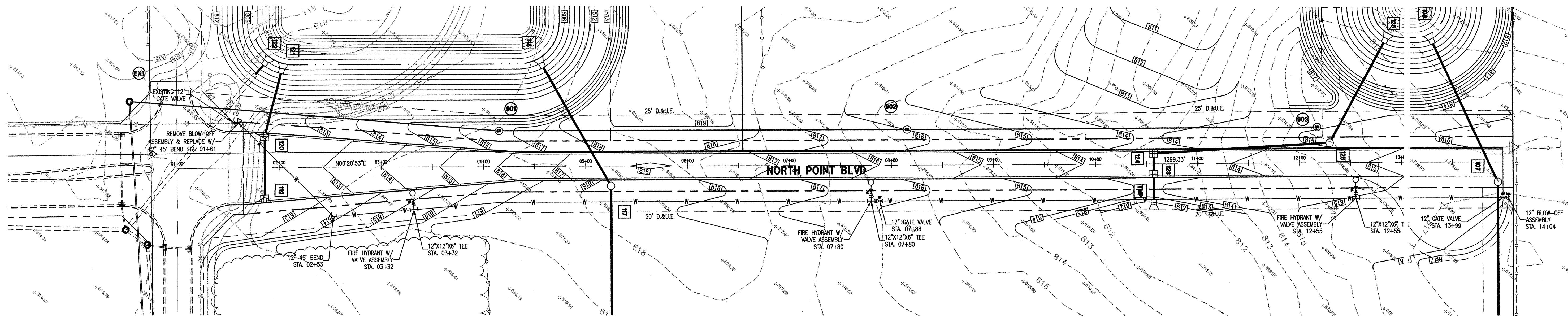
Date	Drawn	Checked
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SANITARY SEWER PLAN & PROFILE
NOBLESVILLE BUSINESS PARK
NORTH POINT BOULEVARD & 148TH STREET
NOBLESVILLE, INDIANA

Certification

Sheet Number
C107
Project Number
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APR 08 2002



GATE VALVE INSTALLATION (61-300-6 SK)

01
C108

NTS

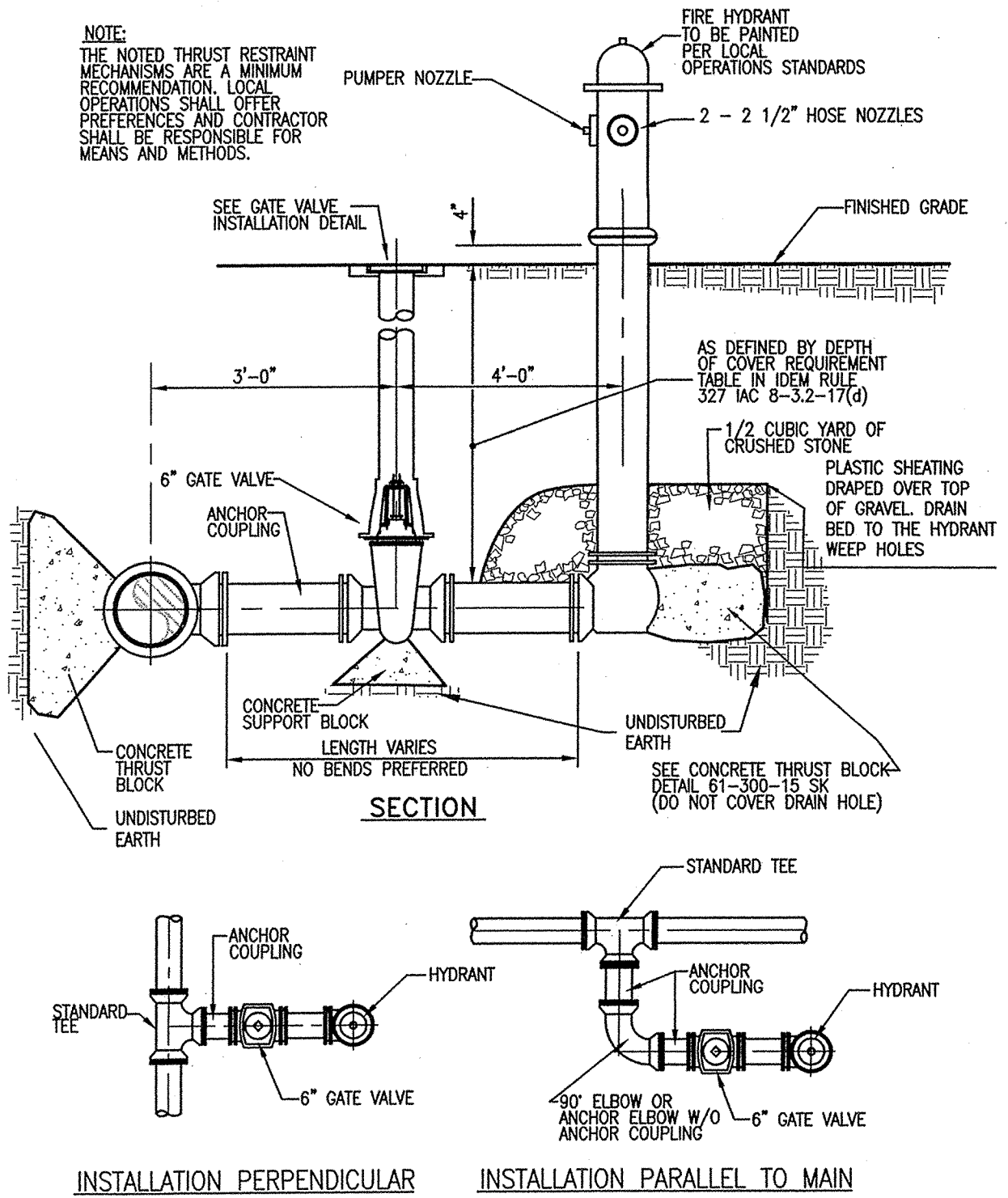
FITTING	THRUST BLOCK REQUIREMENTS		THRUST BLOCK	
	TOTAL POUNDS THRUST	TOTAL BEARING AREA (S.F.)	HEIGHT (FT.)	WIDTH (FT.)
6" 90° BEND	12,000	6	2.5	2.5
6" 45° BEND	6,700	3.5	1.75	2
6" TEE OR PLUG	8,400	4	2	2
8" 90° BEND	19,000	9	3	3
8" 45° BEND	10,500	5	2.5	2
8" TEE OR PLUG	13,500	6.5	2.75	2.5
10" 90° BEND	28,000	14	4	3.5
10" 45° BEND	15,500	8	2.75	3
10" TEE OR PLUG	19,500	10	3.5	3
12" 90° BEND	41,000	20	4	5
12" 45° BEND	23,000	12	3	4
12" TEE OR PLUG	28,000	14	3.5	4
16" 90° BEND	70,000	35	6	6
16" 45° BEND	38,000	19	4	5
16" TEE OR PLUG	50,000	25	5	5

THRUST BLOCK NOTES:

- PIPE JOINT AND BOLTS MUST BE ACCESSIBLE.
- CONCRETE SHALL BE CURED FOR MINIMUM OF 7 DAYS AND SHALL HAVE A COMPRESSION STRENGTH OF 3000 P.S.I. @ 28 DAYS.
- THRUST BLOCKS SHALL BE POSITIONED TO COUNTERACT THE DIRECTION OF THE RESULTANT THRUST FORCE.
- CONTRACTOR SHALL NOTIFY ENGINEER IF SOIL OF LESS THAN 2000 P.S.F. IS ENCOUNTERED.
- FIVE (5) MIL. POLYETHYLENE PLASTIC SHALL BE USED TO COVER FITTINGS PRIOR TO POURING THE THRUST BLOCK.

THRUST BLOCK DESIGN DATA

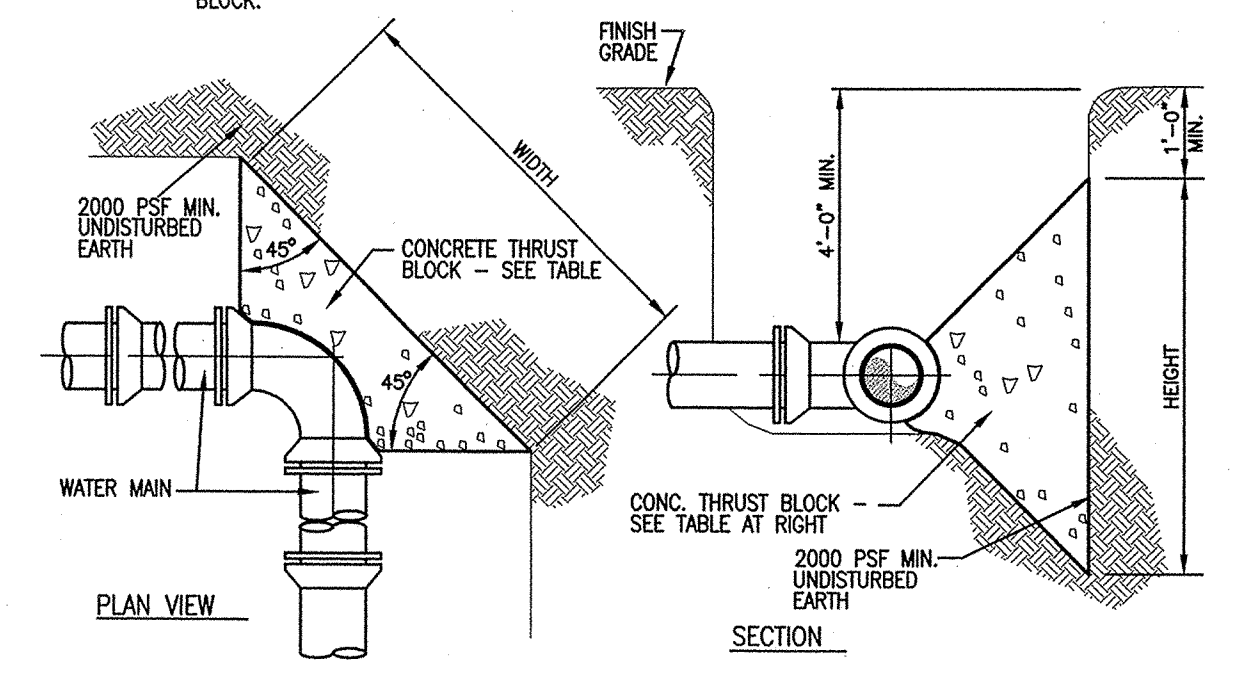
MAXIMUM OPERATING PRESSURE: 85 P.S.I.
SURGE ALLOWANCE: 100 P.S.I.
THRUST DESIGN PRESSURE: 185 P.S.I.
BASED ON 2000 P.S.F. SOIL



FIRE HYDRANT (61-300-7 SK)

02
C108

NTS



THRUST BLOCKS (61-300-15 SK)

03
C108

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Architecture
Engineering
Interiors
Landscape Architecture
Land Surveying

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Revisions

Date	Drawn	Checked
00/00/00	RMG	DBH

Date Drawn Checked
00/00/00 RMG DBH

WATER LINE PLAN
NOBLESVILLE BUSINESS PARK
NORTH POINT BOULEVARD & 148TH STREET
NOBLESVILLE, INDIANA

Certification



Sheet Number

C108

Project Number

21555

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