

01-1-22-71E-370-007

01-1-22-71E-368-008

370-004

01-1-22-71E-372-001

01-1-22-71E-372-002

01-1-22-71E-368-007

01-1-22-71E-370-008

-005

01-1-22-71E-372-014

01-1-22-71E-372-003

01-1-22-71E-368-006

01-1-22-71E-370-009

E-370-003

01-1-22-71E-372-013

01-1-22-71E-372-004

01-1-22-71E-368-005

32-02-22-368-009.000-001

0022-0017-1E

Address 9559 Gladstone Dr
Pittsboro

01-1-22-71E-370-010

Alternate ID 01-1-22-71E 368-009

Class RESIDENTIAL ONE FAMILY DWELLING ON A PLATTED LOT

Acreage 2.37

Owner Address SINKOVIC MICHAEL N & JESSICA L H/W

9559 GLADSTONE DR

Pittsboro, IN 46167

Brown Township
Lot 12 Windfield Subdivision
2.37ac

E-370-002
Description

GLADSTONE DR

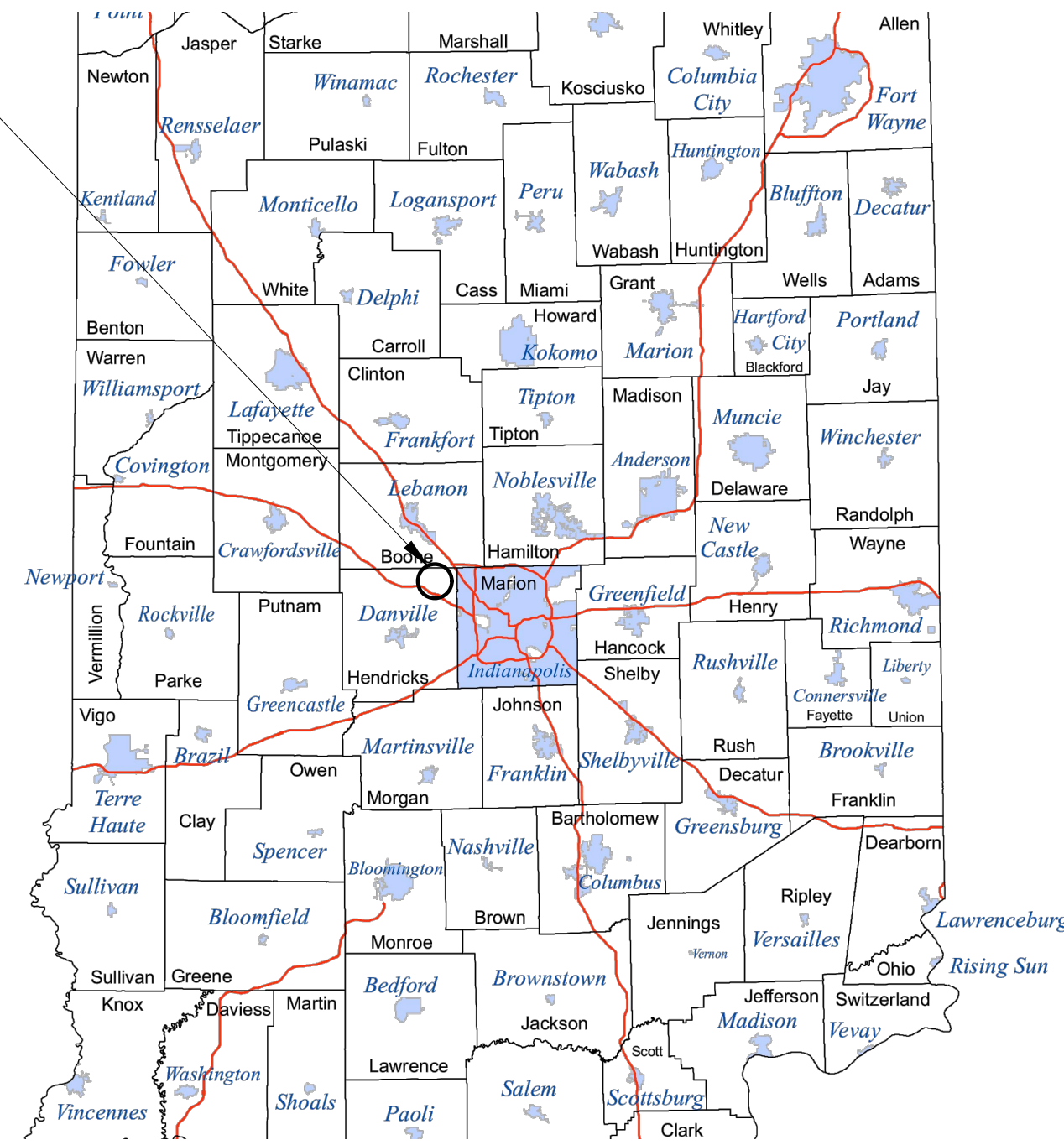
WINDFIELD

WINDFIELD SUBDIVISION DRAINAGE PROJECT

SEC. 22 - T17N - R1E HENDRICKS COUNTY, BROWN TOWNSHIP, PITTSBORO, INDIANA
 ZONED: AGR

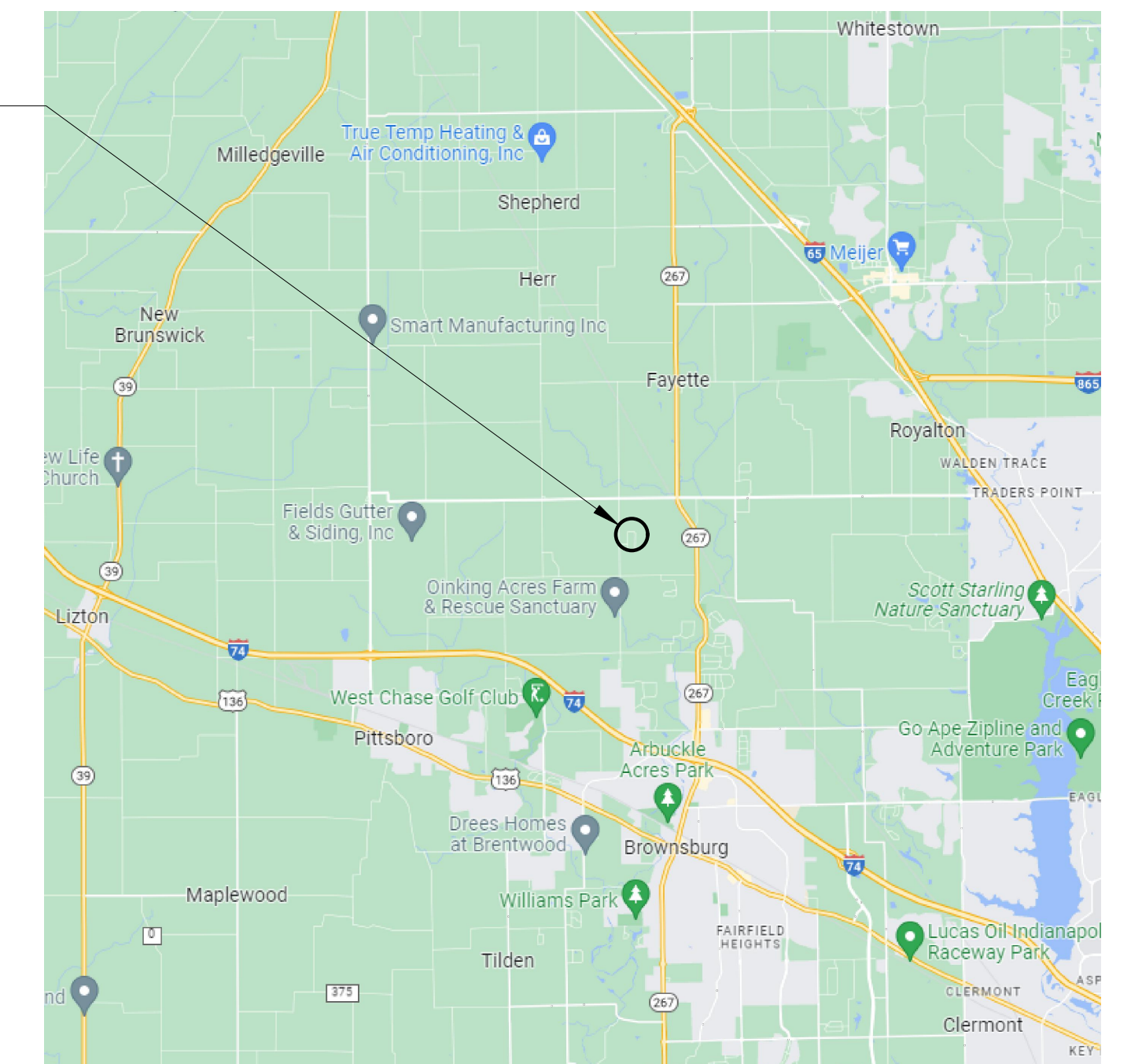
PLANS PREPARED FOR:
 HENDRICKS COUNTY SURVEYOR
 355 SOUTH WASHINGTON STREET, SUITE 214
 DANVILLE, INDIANA 46122
 PHONE: 317-745-9237
 FAX: 317-745-9429
 CONTACT: DAVID GASTON

PROJECT LOCATION



VICINITY MAP
NO SCALE

PROJECT LOCATION



LOCATION MAP
NO SCALE

OPERATING AUTHORITIES

<p>GAS Centerpoint Energy 1800 W. 26th St. Muncie, IN 47302 765-287-2119 Jon Eastham</p> <p>FIBER OPTIC Hendricks Power HP Connect, LLC 86 N. 500 E. Danville, IN 46122 317-745-5473 Jason Stewart</p> <p>FIRE DEPARTMENT Brownsburg Fire Territory Station 132 7455 E. County Rd. 1000 N. Brownsburg, IN 46112 317-852-1190</p>	<p>ELECTRIC Hendricks Power Cooperative 86 N. 500 E. Danville, IN 46122 317-745-5473 Jason Stewart</p> <p>COMMUNICATIONS Charter Communications 1392 Trade Centre Traverse City, MI 49696 231-941-3819 Dan Bielaczyc</p> <p>SCHOOL DISTRICT Brownsburg Community School Corporation 310 Stadium Dr. Brownsburg, IN 46112 317-852-5726</p>	<p>COMMUNICATIONS AT&T 240 N. Meridian St., Room 1791 Indianapolis, IN, 46204 317-265-3050</p> <p>COMMUNICATIONS Endeavor Communications 2 S. West St. Cloverdale, IN 46120 800-922-6677</p>
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SITE MAP

SCALE: 1"= 150'

PLANS PREPARED BY:

BANNING ENGINEERING
 853 COLUMBIA ROAD, SUITE #101
 PLAINFIELD, IN 46168
 BUS: (317) 707-3700, FAX: (317) 707-3800
 E-MAIL: Banning@BanningEngineering.com
 WEB: www.BanningEngineering.com

CONTACT: JOSEPH L. MILLER
 EMAIL: jmliller@banning-eng.com

CONSTRUCTION DOCUMENTS

PROJECT MANAGER: _____ DATE: _____

THESE PLANS ARE NOT TO BE CONSIDERED FINAL OR TO BE UTILIZED FOR CONSTRUCTION UNLESS SIGNED AND DATED BY THE APPROPRIATE BANNING ENGINEERING PROJECT MANAGER.

THESE PLANS ARE NOT INTENDED TO BE REPRESENTED AS A RETRACEMENT OR ORIGINAL BOUNDARY SURVEY, A ROUTE SURVEY, OR A SURVEYOR LOCATION REPORT.

NOT FOR CONSTRUCTION

CERTIFIED BY: _____

SHEET INDEX	
SHEET NO	DESCRIPTION
C100	TITLE SHEET
C101	OVERALL PLAN
C102	EXISTING TOPOGRAPHY AND DEMO PLAN
C300	STORM SEWER PLAN AND PROFILE
C500-C501	MISCELLANEOUS DETAILS

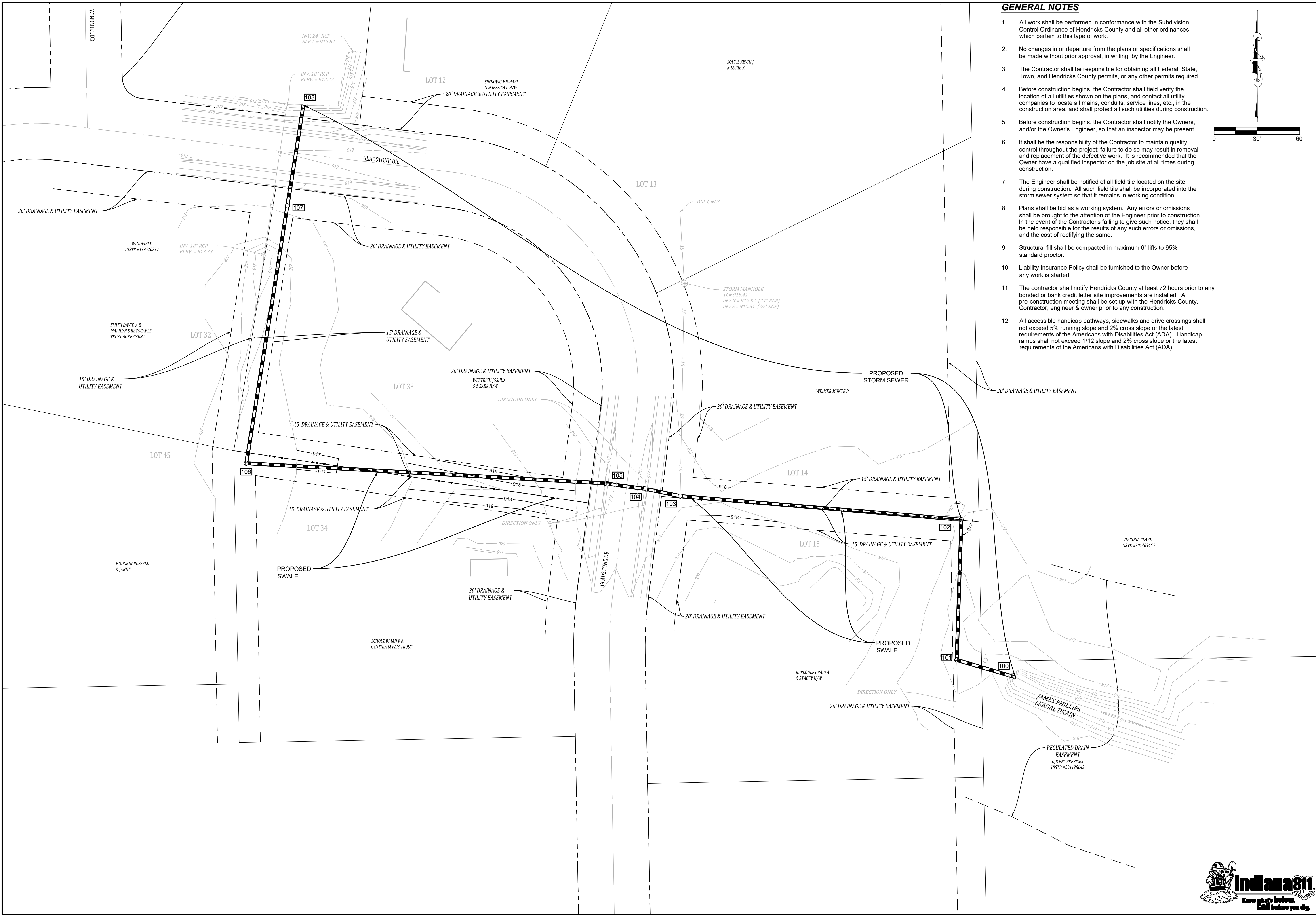
REVISIONS		
NUMBER	DESCRIPTION	DATE

Date:	05-25-23
Project No:	22221
Sheet No:	C100

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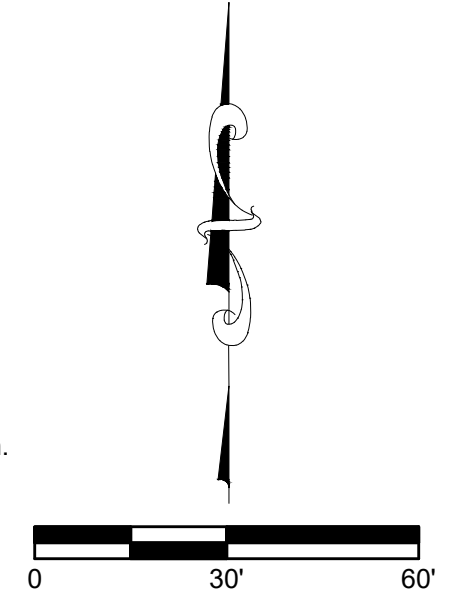


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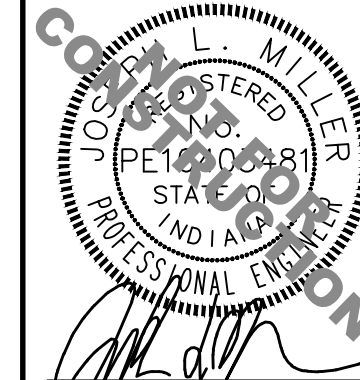
GENERAL NOTES

- All work shall be performed in conformance with the Subdivision Control Ordinance of Hendricks County and all other ordinances which pertain to this type of work.
- No changes in or departure from the plans or specifications shall be made without prior approval, in writing, by the Engineer.
- The Contractor shall be responsible for obtaining all Federal, State, Town, and Hendricks County permits, or any other permits required.
- Before construction begins, the Contractor shall field verify the location of all utilities shown on the plans, and contact all utility companies to locate all mains, conduits, service lines, etc., in the construction area, and shall protect all such utilities during construction.
- Before construction begins, the Contractor shall notify the Owners, and/or the Owner's Engineer, so that an inspector may be present.
- It shall be the responsibility of the Contractor to maintain quality control throughout the project; failure to do so may result in removal and replacement of the defective work. It is recommended that the Owner have a qualified inspector on the job site at all times during construction.
- The Engineer shall be notified of all field tile located on the site during construction. All such field tile shall be incorporated into the storm sewer system so that it remains in working condition.
- Plans shall be bid as a working system. Any errors or omissions shall be brought to the attention of the Engineer prior to construction. In the event of the Contractor's failing to give such notice, they shall be held responsible for the results of any such errors or omissions, and the cost of rectifying the same.
- Structural fill shall be compacted in maximum 6" lifts to 95% standard proctor.
- Liability Insurance Policy shall be furnished to the Owner before any work is started.
- The contractor shall notify Hendricks County at least 72 hours prior to any bonded or bank credit letter site improvements are installed. A pre-construction meeting shall be set up with the Hendricks County, Contractor, engineer & owner prior to any construction.
- All accessible handicap pathways, sidewalks and drive crossings shall not exceed 5% running slope and 2% cross slope or the latest requirements of the Americans with Disabilities Act (ADA). Handicap ramps shall not exceed 1/12 slope and 2% cross slope or the latest requirements of the Americans with Disabilities Act (ADA).



Date	Revisions	Sym.	Designed:	Drawn:	Checked:	Scale:	Date:
			JLM	TMF	JLM	1" = 30'	05-25-23

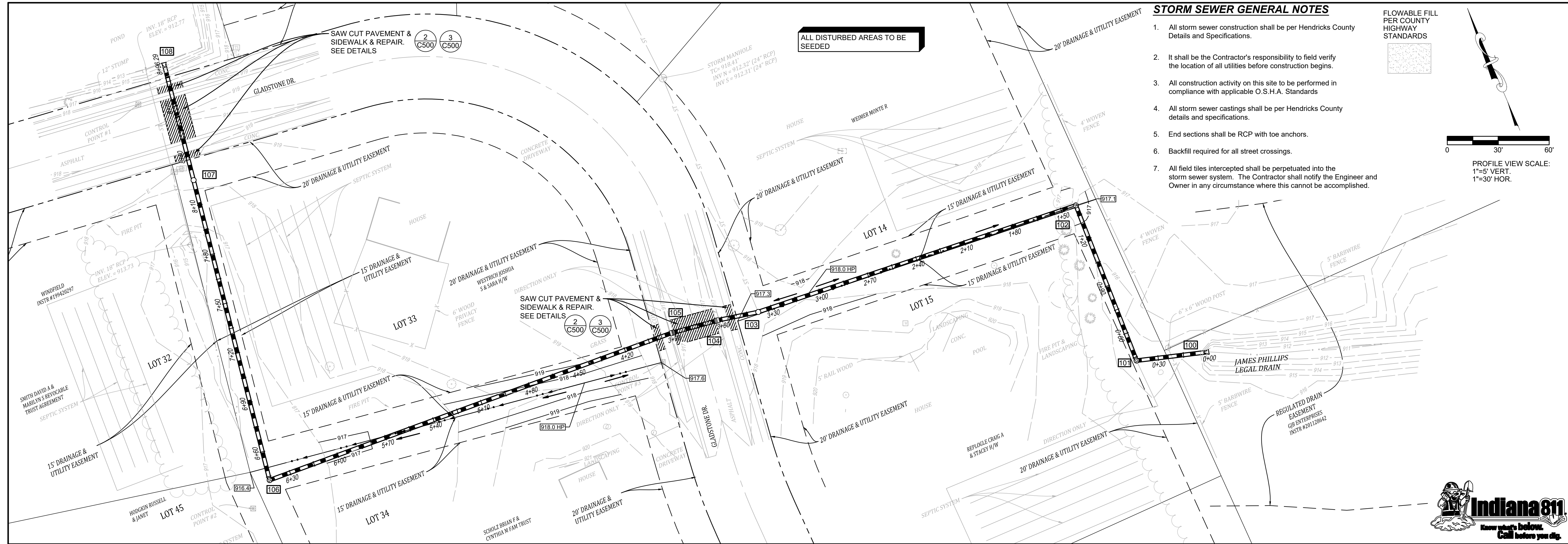
OVERALL PLAN
WINDFIELD SUBDIVISION DRAINAGE PROJECT
HENDRICKS COUNTY SURVEYOR'S OFFICE
BROWN TOWNSHIP, PITTSBORO, INDIANA



BANNING ENGINEERING
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 WEB: www.BanningEngineering.com



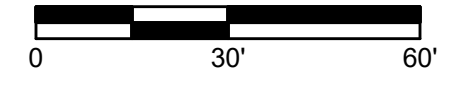
Project No: 22221
 Sheet No: C101



STORM SEWER GENERAL NOTES

- All storm sewer construction shall be per Hendricks County Details and Specifications.
- It shall be the Contractor's responsibility to field verify the location of all utilities before construction begins.
- All construction activity on this site to be performed in compliance with applicable O.S.H.A. Standards
- All storm sewer castings shall be per Hendricks County details and specifications.
- End sections shall be RCP with toe anchors.
- Backfill required for all street crossings.
- All field ties intercepted shall be perpetuated into the storm sewer system. The Contractor shall notify the Engineer and Owner in any circumstance where this cannot be accomplished.

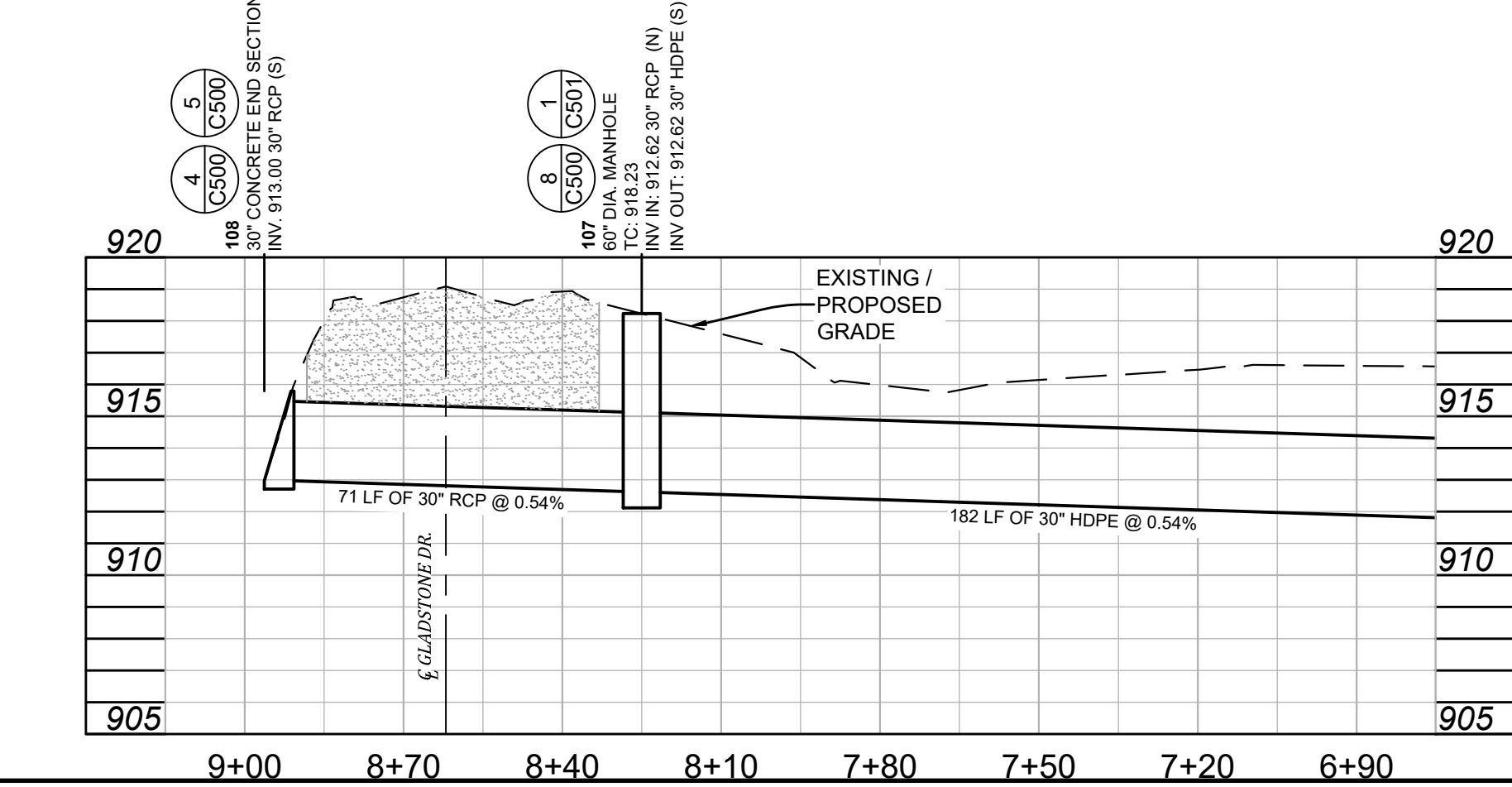
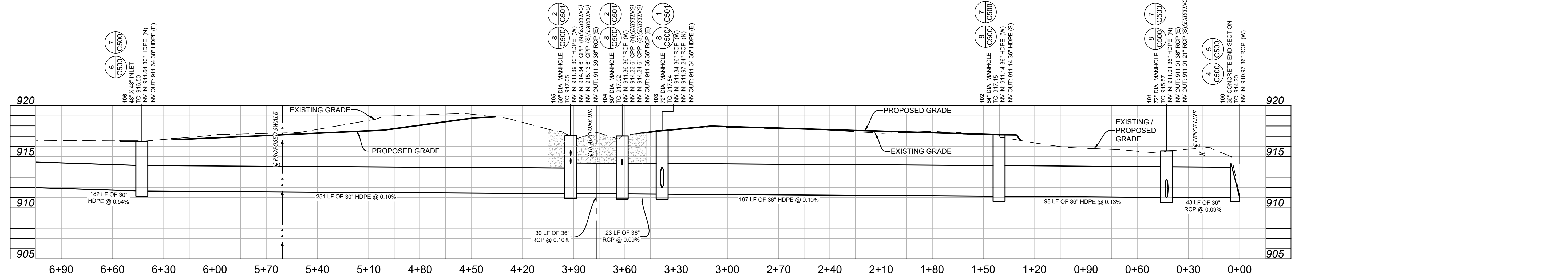
FLOWABLE FILL PER COUNTY HIGHWAY STANDARDS



PROFILE VIEW SCALE:
1"=5' VERT.
1"=30' HOR.

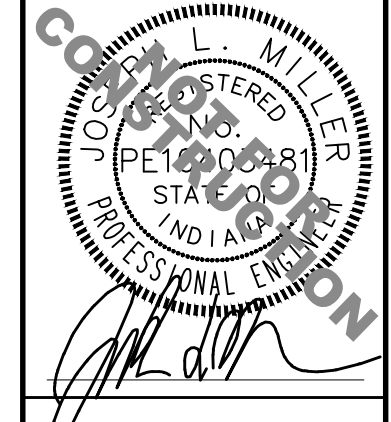
Date	Revisions	Design:	Drawn:	Check:	Scale:	Date:
		JLM	TMF	JLM	1" = 30'	05/25/23

STORM SEWER PLAN AND PROFILE
WINDFIELD SUBDIVISION DRAINAGE PROJECT
HENDRICKS COUNTY SURVEYOR'S OFFICE
BROWN TOWNSHIP, PITTSBORO, INDIANA



LEGEND

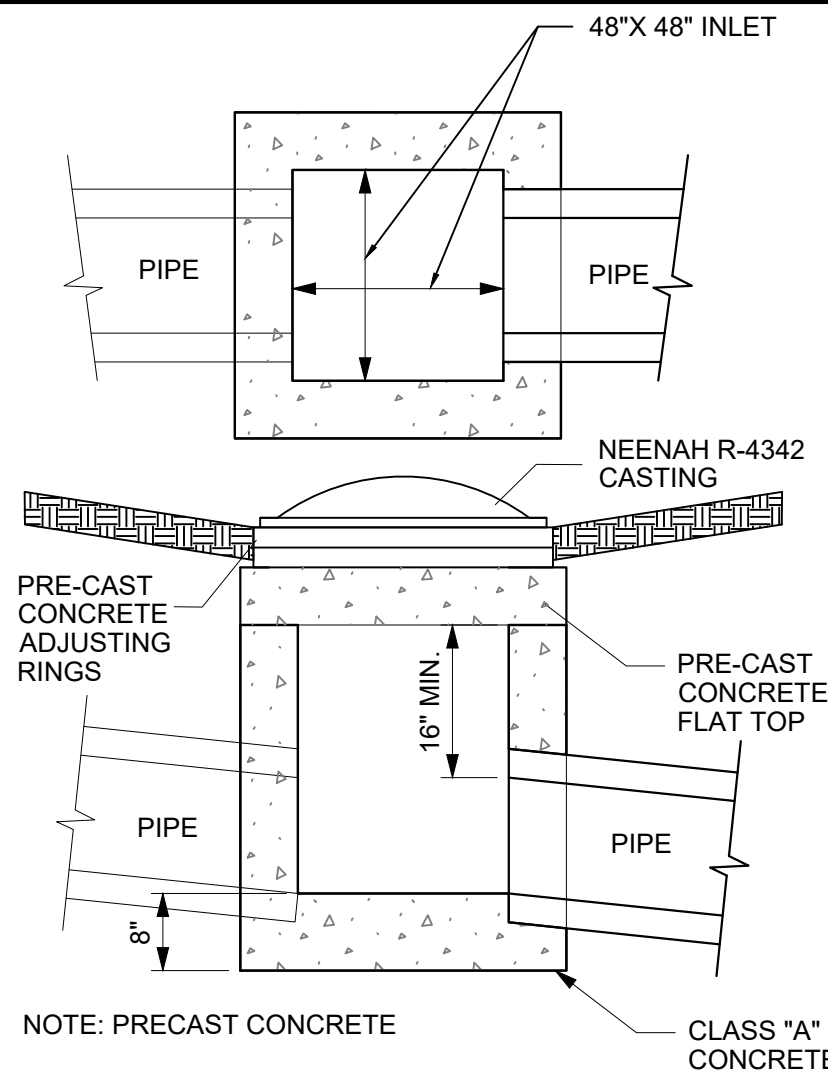
<p>PROPOSED</p> <ul style="list-style-type: none"> — FLOW LINE --- STORM SEWER --- SSD SUBSURFACE DRAIN △ END SECTION ⊕ STORM INLET ○ STORM MANHOLE 100 STORM SEWER STRUCTURE NUMBER 653.00 SPOT GRADE ME MATCH EXISTING HP HIGH POINT ← DRAINAGE FLOW 	<ul style="list-style-type: none"> — ST STORM SEWER — S SANITARY SEWER — W WATER LINE — X FENCE LINE — OHU OVERHEAD UTILITIES — E ELECTRIC UNDERGROUND — T TELEPHONE LINE — G GAS LINE — UFO FIBER OPTICS --- FLOWLINE ○ GAS LINE MARKER □ GAS METER ⊗ GAS VALVE 	<p>EXISTING</p> <ul style="list-style-type: none"> ⊕ STORM MANHOLE ⊕ STORM INLETS ⊕ CURB INLET ⊕ SANITARY MANHOLE ● LIGHT POLE MASTERARM ⊕ SANITARY CLEANOUT ⊕ FIRE DEPARTMENT CONNECTION ▶ WATER VALVE ⊕ WATER METER ⊕ WELL ⊕ FIREHYDRANT ⊕ WATER METER ⊕ WATER SPIGOT 	<ul style="list-style-type: none"> ⊕ MAILBOX ⊕ HANDHOLE ⊕ UTILITY POLES ⊕ GUY ANCHOR ⊕ ELECTRIC METER ⊕ ELECTRIC STRUCTURE ⊕ HVAC UNIT ⊕ TELEPHONE STRUCTURE ○ POST ⊕ SIGN ⊕ TREE ⊕ SHRUB ⊕ LIGHT POLE
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Project No: 22221
 Sheet No: **C300**

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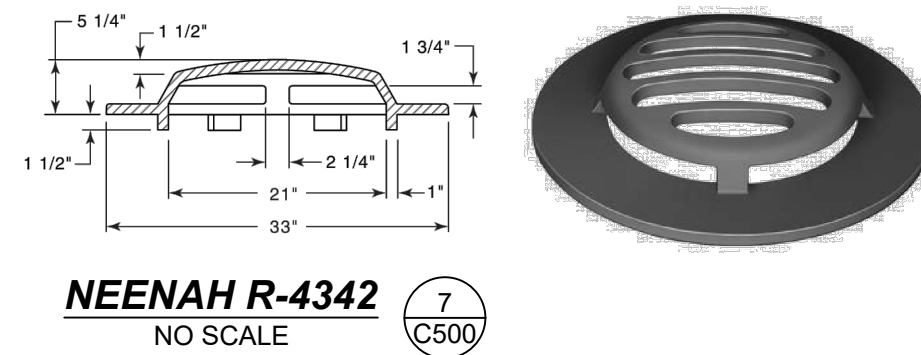


INLET WITH BEEHIVE CASTING (NEENAH R-4342 CASTING)
NO SCALE 6 C500

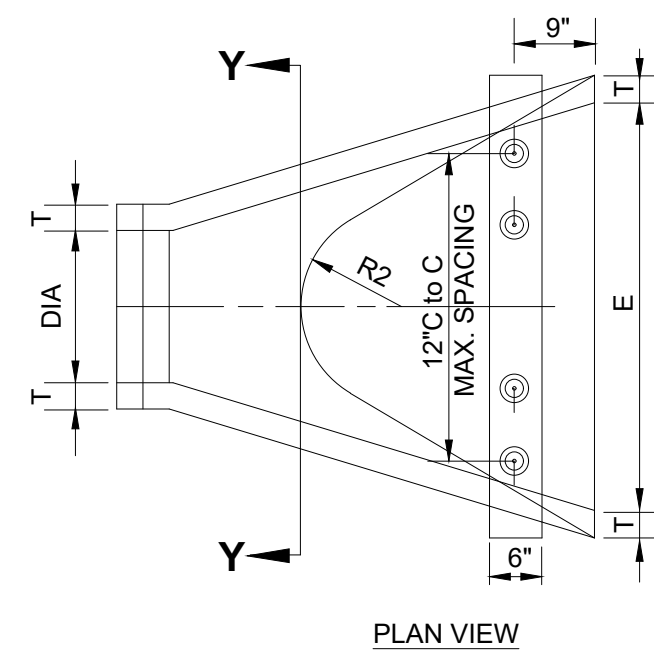
R-4342
Ditch Grate, Stool Type

Light Duty

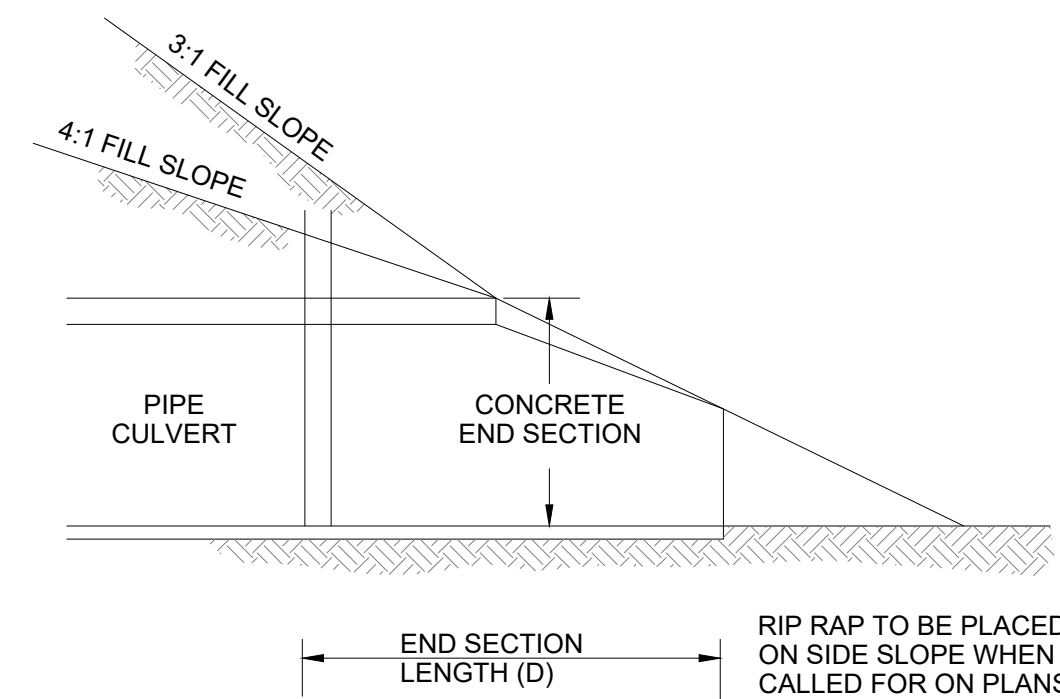
CATALOG NUMBER	GRATE TYPE	SQ. FT. OPEN	WEIR PERIMETER LINEAL FEET
R-4342	Beehive	2.0	8.9



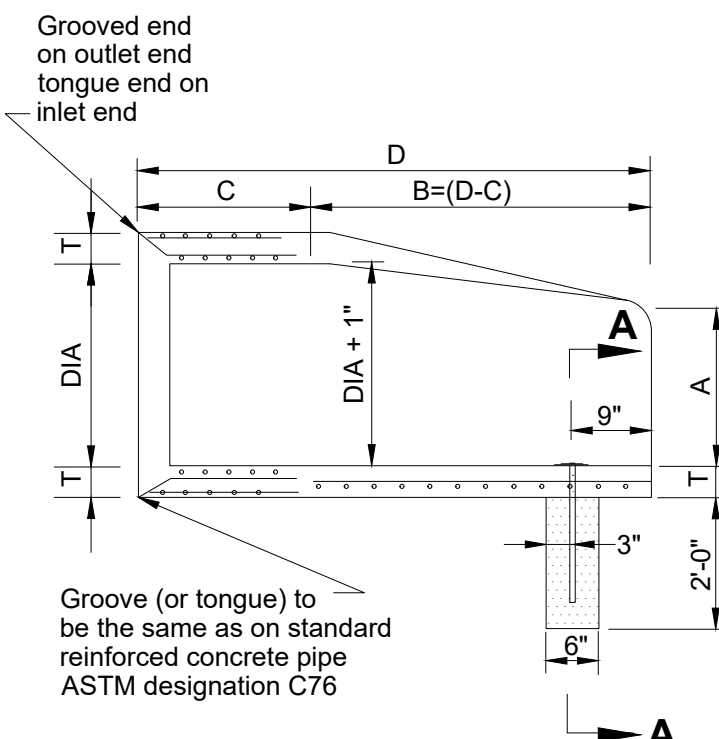
NEENAH R-4342
NO SCALE 7 C500



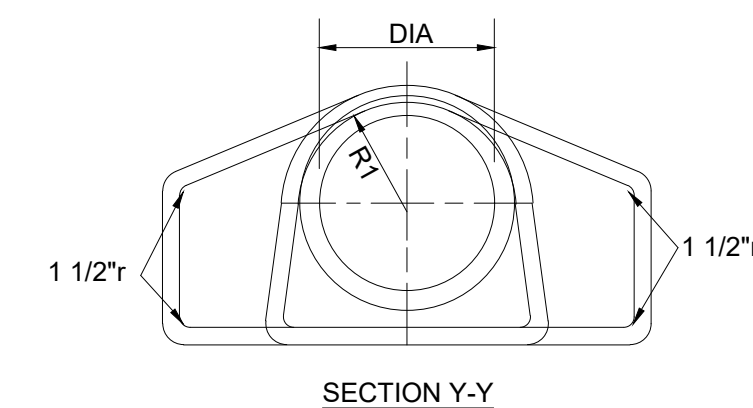
PLAN VIEW



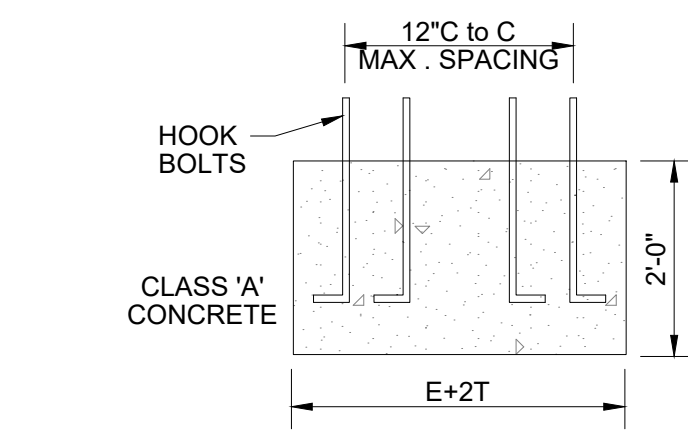
SLOPE DETAIL



CLASS 'A' CONCRETE
LONGITUDINAL SECTION



SECTION Y-Y



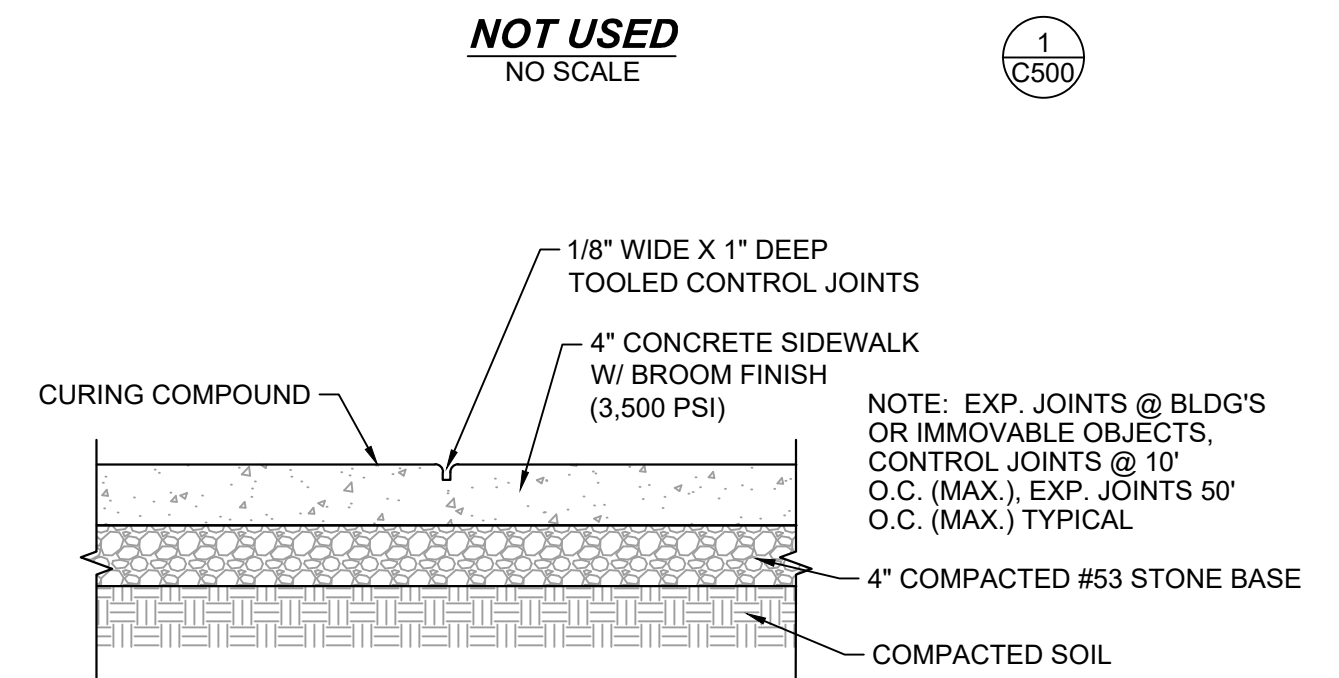
SECTION A-A
CONCRETE PIPE TOE ANCHOR

DIMENSIONS OF CONCRETE END SECTIONS FOR ROUND PIPE

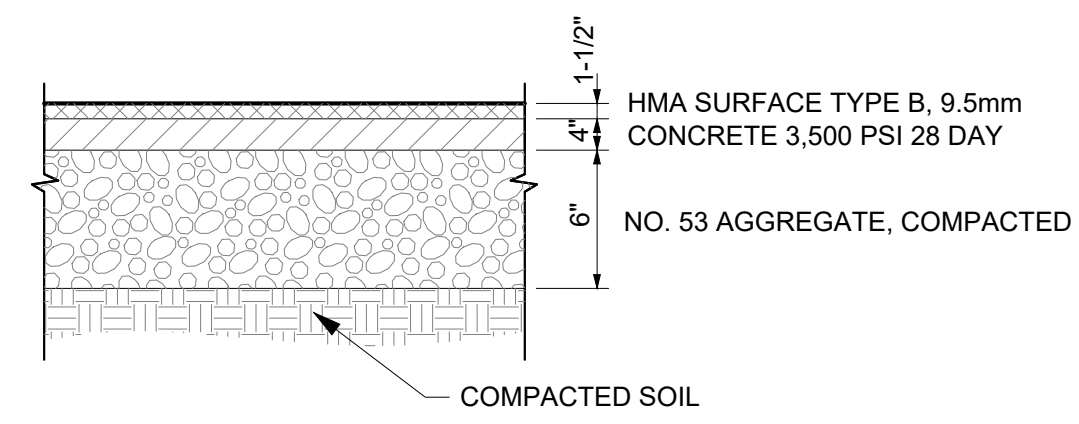
DIA	T (MIN)	A*	C*	D*	E*	K	R ₁	R ₂	APPROX. WEIGHT
12"	2"	5"	4'-3"	6'-2"	2'-0"	1.3	10 1/8"	9"	800
15"	2 1/4"	7"	4'-0"	6'-3"	2'-6"	1.5	12 1/2"	11"	1,100
18"	2 1/2"	11"	4'-1"	6'-2"	3'-0"	1.8	15 1/2"	12"	1,300
21"	2 3/4"	11"	3'-6"	6'-3"	3'-6"	2.1	16 1/8"	13"	1,500
24"	3"	1'-0"	2'-8"	6'-3"	4'-0"	2.3	16 3/16"	14"	1,800
27"	3 1/4"	1'-0"	2'-5"	6'-3"	4'-6"	2.6	18 1/2"	14 1/2"	2,100
30"	3 1/2"	1'-2"	1'-10"	6'-3"	5'-0"	2.9	18 3/16"	15"	2,400
33"	3 3/4"	1'-3"	3'-6"	8'-3"	5'-6"	3.1	18 1/2"	17 1/2"	4,100
36"	4"	1'-5"	3'-1"	8'-3"	6'-0"	3.4	23 3/4"	20"	4,200

* TOLERANCE +/- 1"

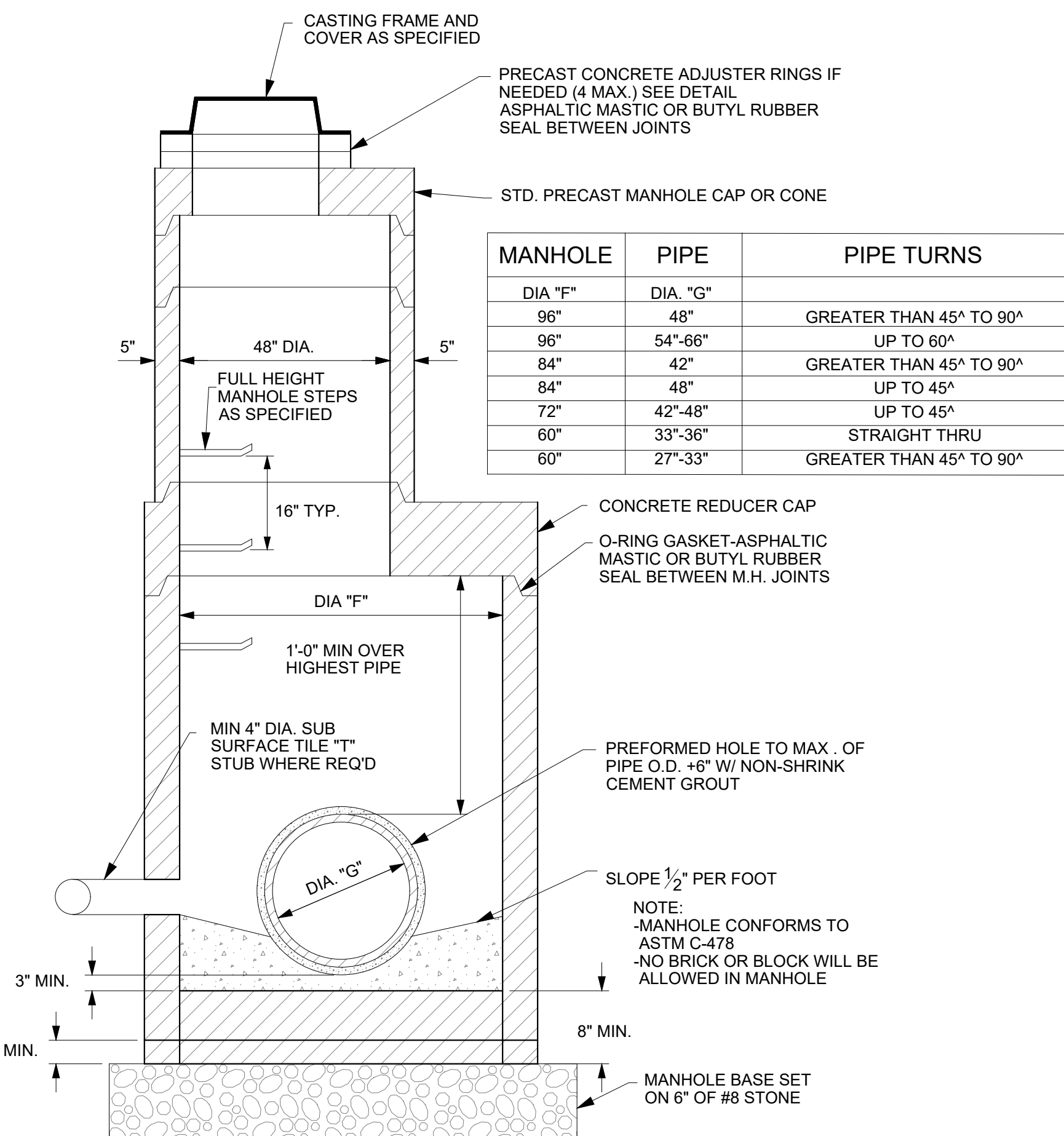
PRECAST CONCRETE END SECTION
NO SCALE 4 C500



4" CONCRETE SIDEWALK
NO SCALE 2 C500



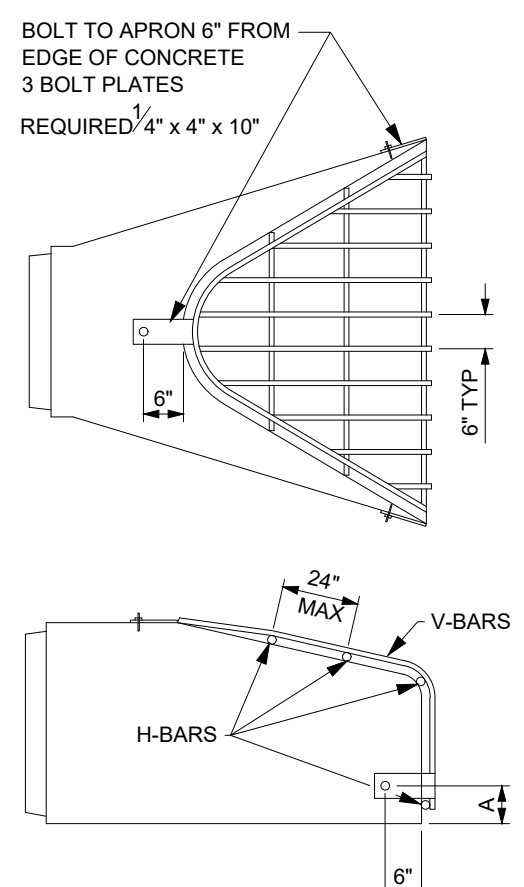
ROADWAY REPAIR DETAIL
NO SCALE 3 C500



MANHOLE DIA. "F"	PIPE DIA. "G"	PIPE TURNS
96"	48"	GREATER THAN 45° TO 90°
96"	54"-66"	UP TO 60°
84"	42"	GREATER THAN 45° TO 90°
84"	48"	UP TO 45°
72"	42"-48"	UP TO 45°
60"	33"-36"	STRAIGHT THRU
60"	27"-33"	GREATER THAN 45° TO 90°

ONE COMPLETE UNIT OF PRECAST CONCRETE MANHOLE BASE & RISER OR APPROVED ALTERNATIVE. SEPARATE BASE & RISE SECTION IS OPTIONAL.

MANHOLE BASE, RISER & REDUCER CAP FOR PIPES 27" THRU 48"
NO SCALE 8 C500



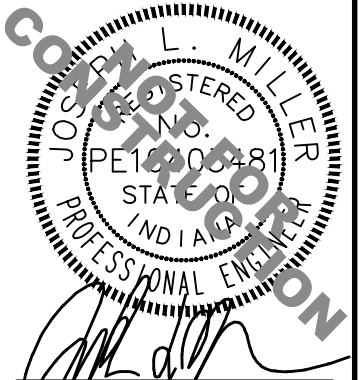
APRON SIZE	V-BAR SIZE INCHES	H-BAR SIZE	NO. OF H-BARS REQ'D	BOLT DIA	"A" DIM INCHES
18	1/2 DIA	5/8 DIA	3	1/2	5
24	5/8 DIA	3/4 DIA	4	1/2	7
30	5/8 DIA	3/4 DIA	4	1/2	7 1/2
36	3/4 DIA	1 DIA	4	1/2	10 1/2
42	3/4 DIA	1 DIA	4	3/4	11
48	3/4 DIA	1 1/2 PIPE	4	3/4	12
54	3/4 DIA	1 1/2 PIPE	4	3/4	12
60	3/4 DIA	1 1/2 PIPE	5	3/4	14
72	3/4 DIA	1 1/2 PIPE	5	3/4	14
84	3/4 DIA	1 1/2 PIPE	6	3/4	15

ROUND PIPE APRONS	APRON SIZE	V-BAR SIZE INCHES	H-BAR SIZE	NO. OF H-BARS REQ'D	BOLT DIA	"A" DIM INCHES
12	1/2 DIA	5/8 DIA	3	1/2	4	
15	1/2 DIA	5/8 DIA	3	1/2	4 1/2	
18	1/2 DIA	5/8 DIA	4	1/2	4 1/2	
21	1/2 DIA	5/8 DIA	4	1/2	5	
24	5/8 DIA	3/4 DIA	4	1/2	5	
27	5/8 DIA	3/4 DIA	4	1/2	5 1/2	
30	5/8 DIA	3/4 DIA	4	1/2	5 1/2	
36	3/4 DIA	1 DIA	4	3/4	8	
42	3/4 DIA	1 DIA	4	3/4	8	
48	3/4 DIA	1 DIA	5	3/4	8	
54	3/4 DIA	1 1/2 PIPE	5	3/4	8	
60	3/4 DIA	1 1/2 PIPE	5	3/4	8	
66	3/4 DIA	1 1/2 PIPE	6	3/4	8	
72	3/4 DIA	1 1/2 PIPE	6	3/4	9	
84	3/4 DIA	1 1/2 PIPE	7	3/4	10	
90	3/4 DIA	1 1/2 PIPE	7	3/4	14	

NOTES:
1. BARS & PLATES ARE HOT-ROLLED STEEL
2. BARS, PLATES, & PIPES ARE FINISHED WITH 2 COATS OF ALUMINUM PAINT
3. BOLTS ARE GALVANIZED

ANIMAL GUARD
NO SCALE 5 C500

MISCELLANEOUS DETAILS
 WINDFIELD SUBDIVISION DRAINAGE PROJECT
 HENDRICKS COUNTY SURVEYOR'S OFFICE
 BROWN TOWNSHIP, PITTSBORO, INDIANA



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Project No: 22221
Sheet No:
C500

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**R-1642
Manhole Frame, Solid Lid**

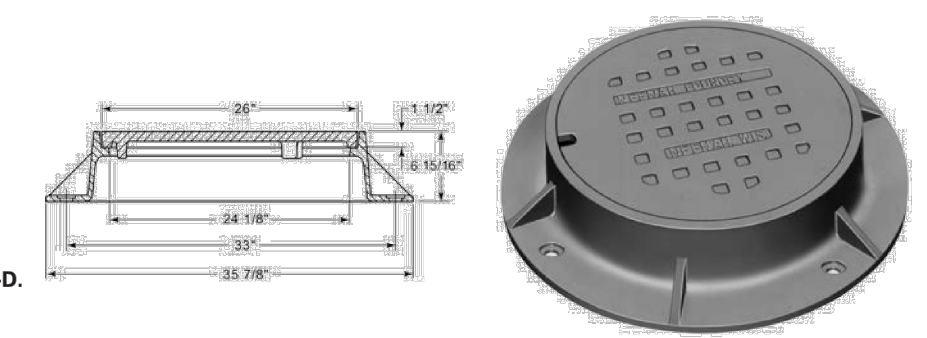
Heavy Duty

Non-Rocking feature available, see p. 12.
Furnished with four 1" anchor holes on 33" diameter bolt circle.

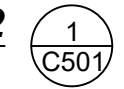
If a 4-inch height frame is required, order as **R-1642-D**.



Available Grate: **R-2501**

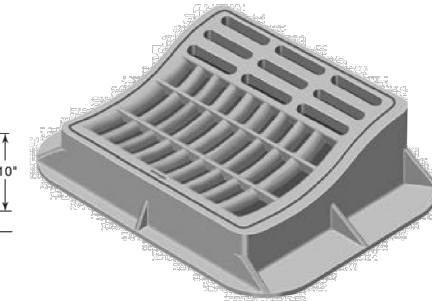
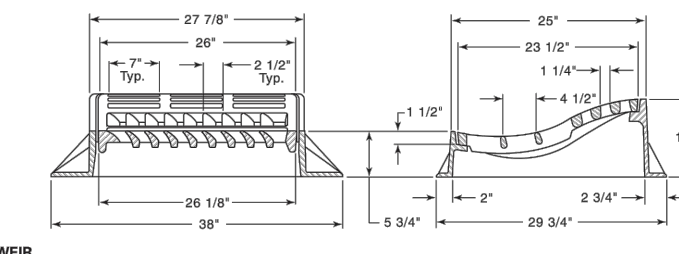


NEENAH R-1642
NO SCALE



**R-3501-TR
Inlet for Roll Type Curb**

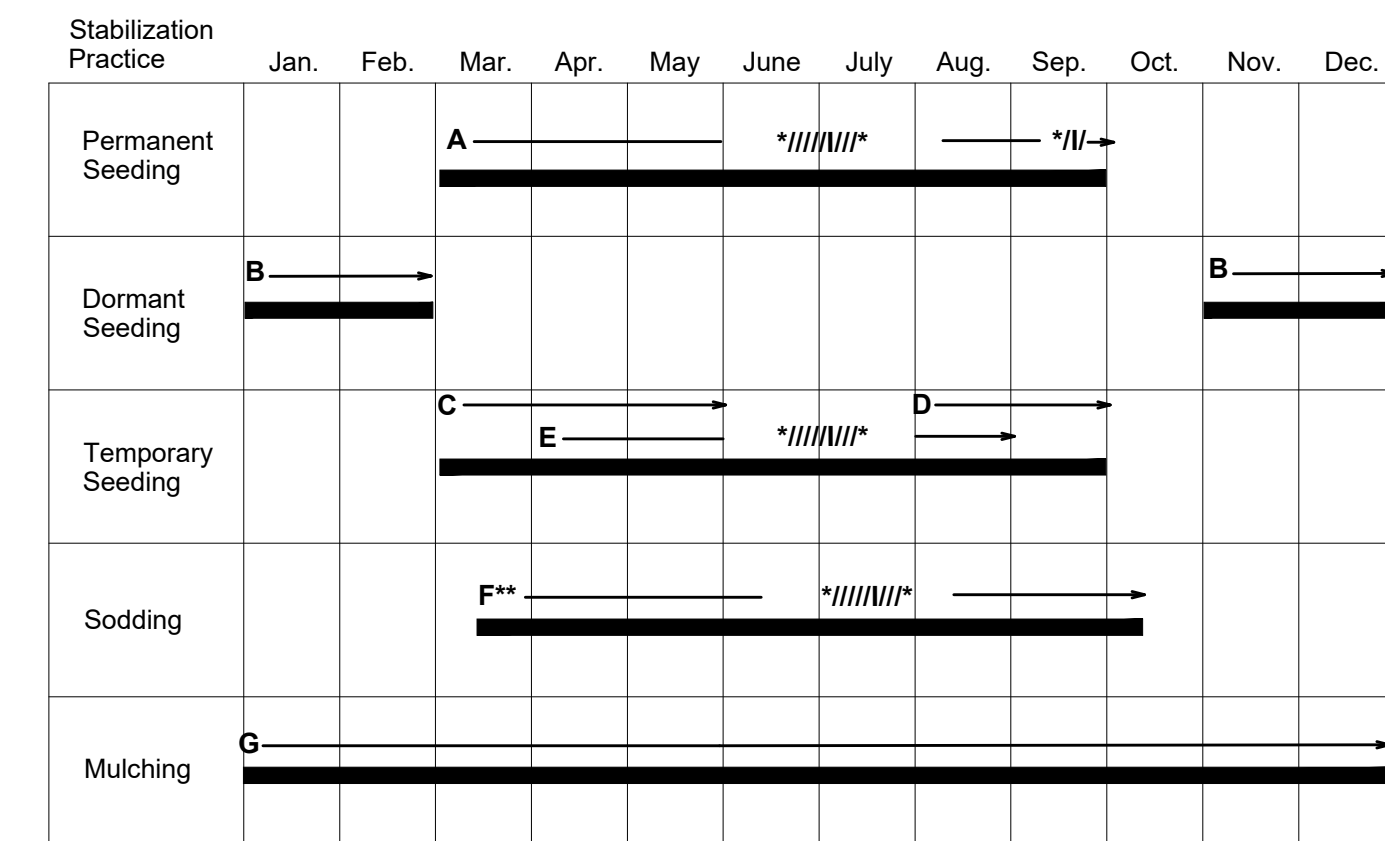
Heavy Duty



CATALOG NUMBER	GRATE TYPE	SQ. FT. LINEAL	PERIMETER FEET
R-3501-TR	L	1.4	4.8
R-3501-TL	L	1.4	4.8

Illustrating **R-3501-TR** (flow right). If flow left required, order **R-3501-TL**.

NEENAH R-3501-TR
NO SCALE



A = Kentucky Bluegrass 40 lbs/acre; or 40 lbs. tall Fescue; plus 2 tons straw mulch/acre or add Annual Ryegrass 20 lbs/acre.

B = Kentucky Bluegrass 60 lbs/acre; or 40 lbs. tall Fescue; plus 2 tons straw mulch/acre or add Annual Ryegrass 30 lbs/acre.

C = Spring Oats 100 lbs./acre

D = Wheat or Rye 150 lbs./acre.

E = Annual Ryegrass 40 lbs/acre. (1 lb./1000 sq. ft.)

F = Sod

G = Straw Mulch 2 tons/acre.

/I Irrigation needed during June, July, and/or September.

** Irrigation needed for 2 to 3 weeks after applying sod.

Lime and fertilize to site specific soils tests or apply fertilizer at a rate of 1000 lbs. per acre or 12-12-12 or equivalent.

All swales shall be seeded with 2 lbs. Adelphi bluegrass and 2 lbs. Perennial Derby rye, or equivalent per 1000 square feet. mulch with one bale of straw per 1000 square feet. Fertilize with 5 lbs. of 20-5-5 per 1000 square feet unless specified otherwise.

MAINTENANCE
Inspect weekly and after each 1/2" rainfall event, until the stand is successfully established. (Characteristics of a successful stand include: vigorous dark green or bluish-green seedlings; uniform density with nurse plants, legumes, and grasses well inter-mixed; green leaves; and the perennials remaining green throughout the summer, at least at the plant base.)

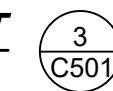
Plan to add fertilizer the following growing season according to soil test recommendations.

Repair damaged, bare, or sparse areas by filling any gullies, re-fertilizing, over- or re-seeding, and mulching. If plant cover is sparse or patchy, review the plant materials chosen, soil fertility, moisture condition, and mulching; then repair the affected area either by over-seeding or by re-seeding and mulching after re-preparing the seedbed.

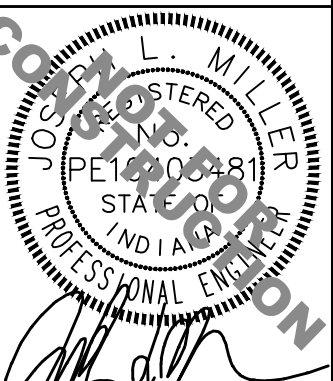
If vegetation fails to grow, consider soil testing to determine acidity or nutrient deficiency problems. (Contact your SWCD or Cooperative Extension office for assistance.)

If additional fertilization is needed to get a satisfactory stand, do so according to the soil test recommendations.

SEEDING CHART
NO SCALE



MISCELLANEOUS DETAILS
WINDFIELD SUBDIVISION DRAINAGE PROJECT
HENDRICKS COUNTY SURVEYOR'S OFFICE
BROWN TOWNSHIP, PITTSBORO, INDIANA



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