

Project No: 22218
 Sheet No: C102

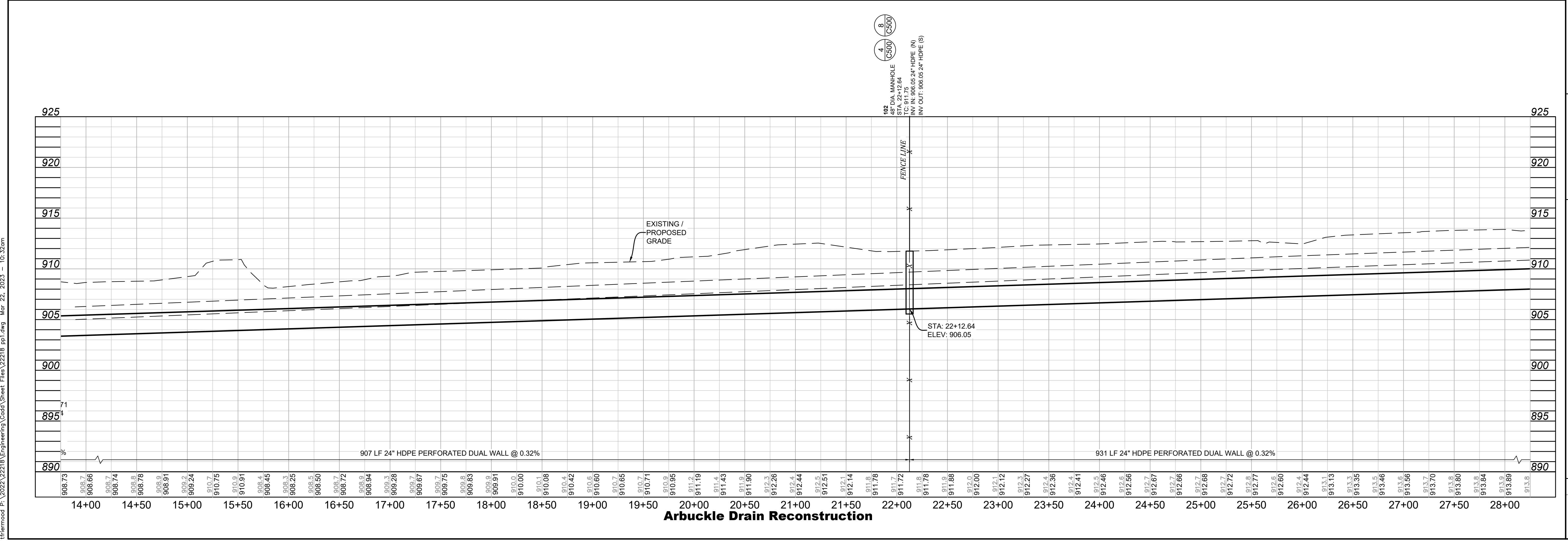
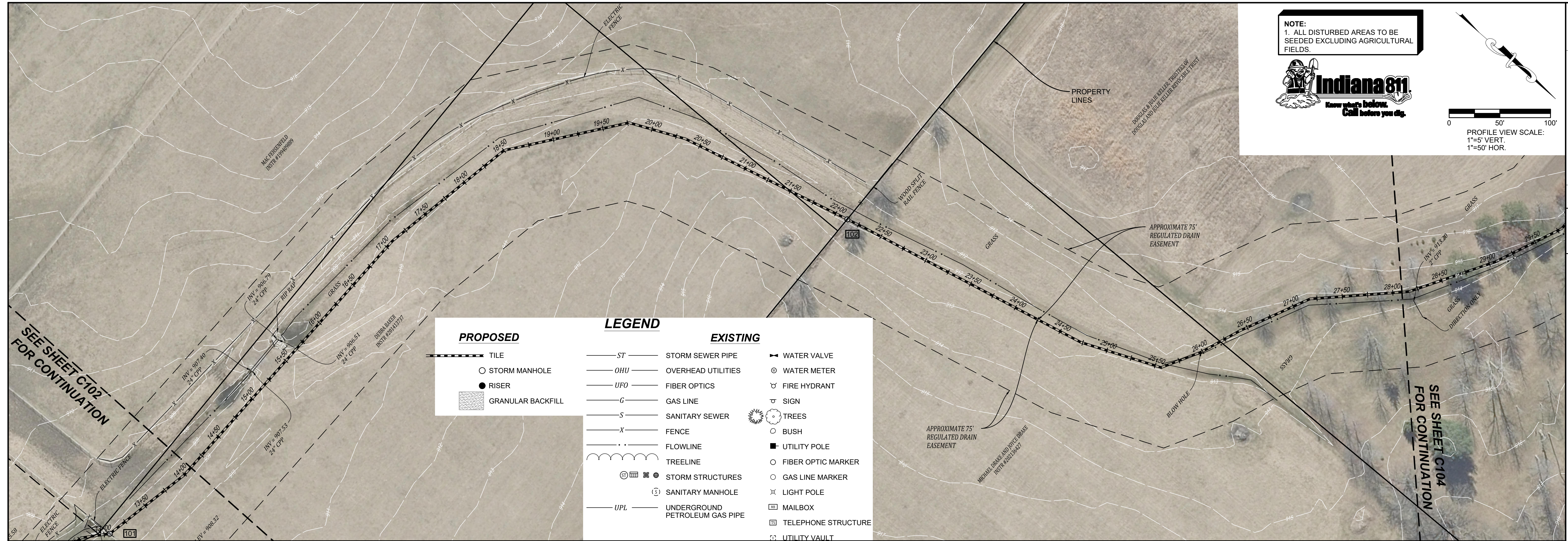
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 STATE OF INDIANA
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PLAN AND PROFILE STA. 00+00 TO 14+00
 ARBUCKLE DRAIN RECONSTRUCTION
 BROWN TOWNSHIP
 BROWNSBURG, INDIANA

Date	Revisions
05/22/23	

Designed: JLM
 Drawn: TMF
 Checked: JLM
 Scale: 1" = 50'
 Date: 05/22/23



Project No: 22218
 Sheet No: C103

PLAN AND PROFILE STA. 14+00 TO 28+00
 ARBUCKLE DRAIN RECONSTRUCTION
 BROWN TOWNSHIP
 BROWNSBURG, INDIANA

DESIGNED: JLM
 DRAWN: TMF
 CHECKED: JLM
 SCALE: 1" = 50'
 DATE: 03/22/23

DATE: _____
 REVISIONS: _____

NOTE:
 1. ALL DISTURBED AREAS TO BE SEEDED EXCLUDING AGRICULTURAL FIELDS.

Indiana 811
 Know what's below. Call before you dig.

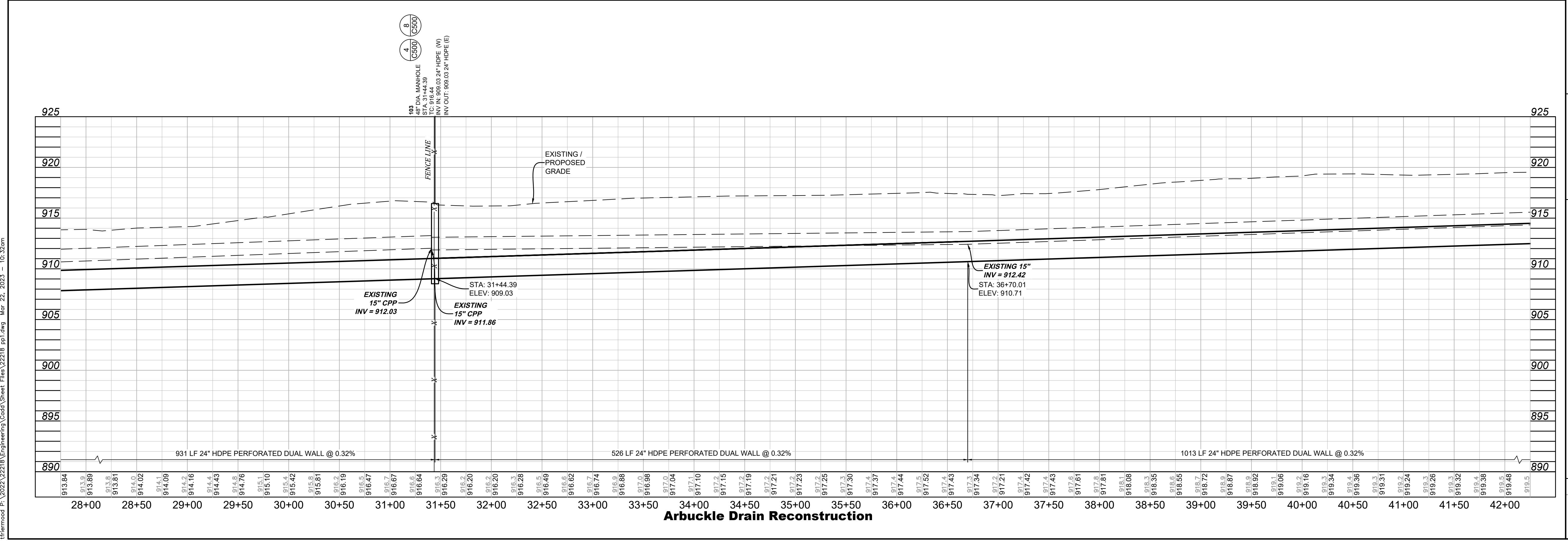
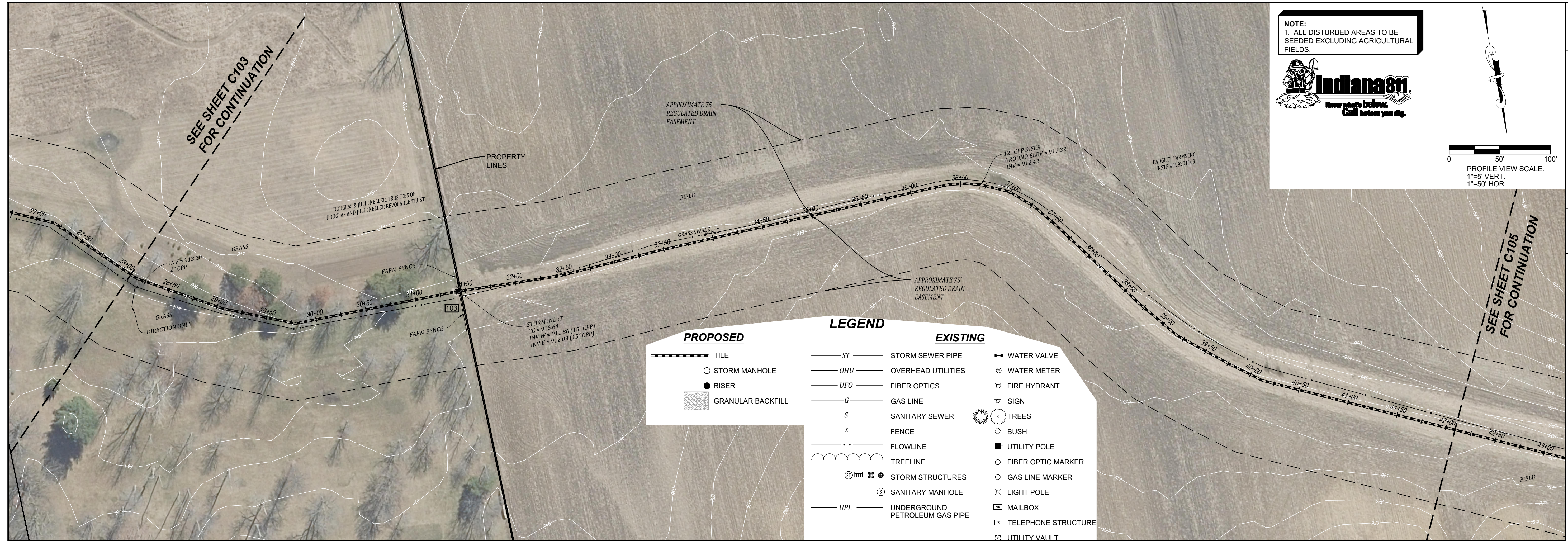
PROFILE VIEW SCALE:
 1"=5' VERT.
 1"=50' HOR.

SEE SHEET C102 FOR CONTINUATION
 SEE SHEET C104 FOR CONTINUATION

LEGEND

PROPOSED	EXISTING
— TILE	— ST — STORM SEWER PIPE
○ STORM MANHOLE	— OHU — OVERHEAD UTILITIES
● RISER	— UFO — FIBER OPTICS
▨ GRANULAR BACKFILL	— G — GAS LINE
	— S — SANITARY SEWER
	— X — FENCE
	— FLOWLINE
	— TREELINE
	— STORM STRUCTURES
	— SANITARY MANHOLE
	— UPL — UNDERGROUND PETROLEUM GAS PIPE
	▲ WATER VALVE
	⊙ WATER METER
	⊕ FIRE HYDRANT
	⊕ SIGN
	⊕ TREES
	○ BUSH
	■ UTILITY POLE
	○ FIBER OPTIC MARKER
	○ GAS LINE MARKER
	× LIGHT POLE
	⊕ MAILBOX
	⊕ TELEPHONE STRUCTURE
	⊕ UTILITY VAULT

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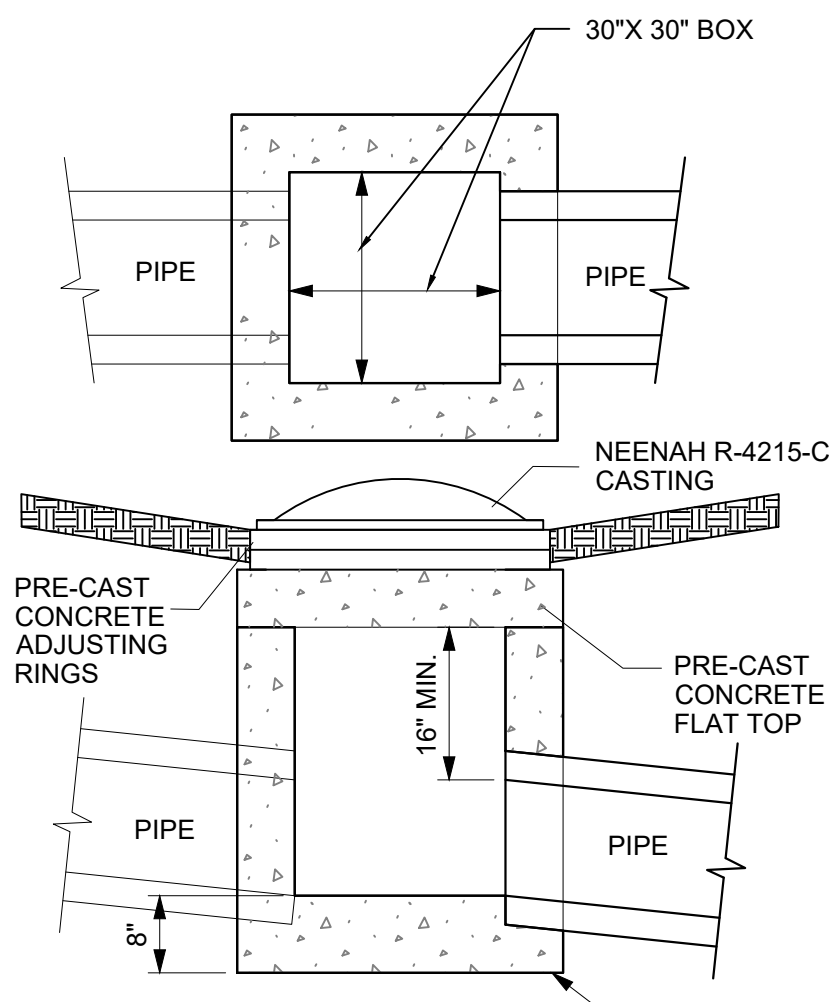
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Project No:	22218
Sheet No:	C104

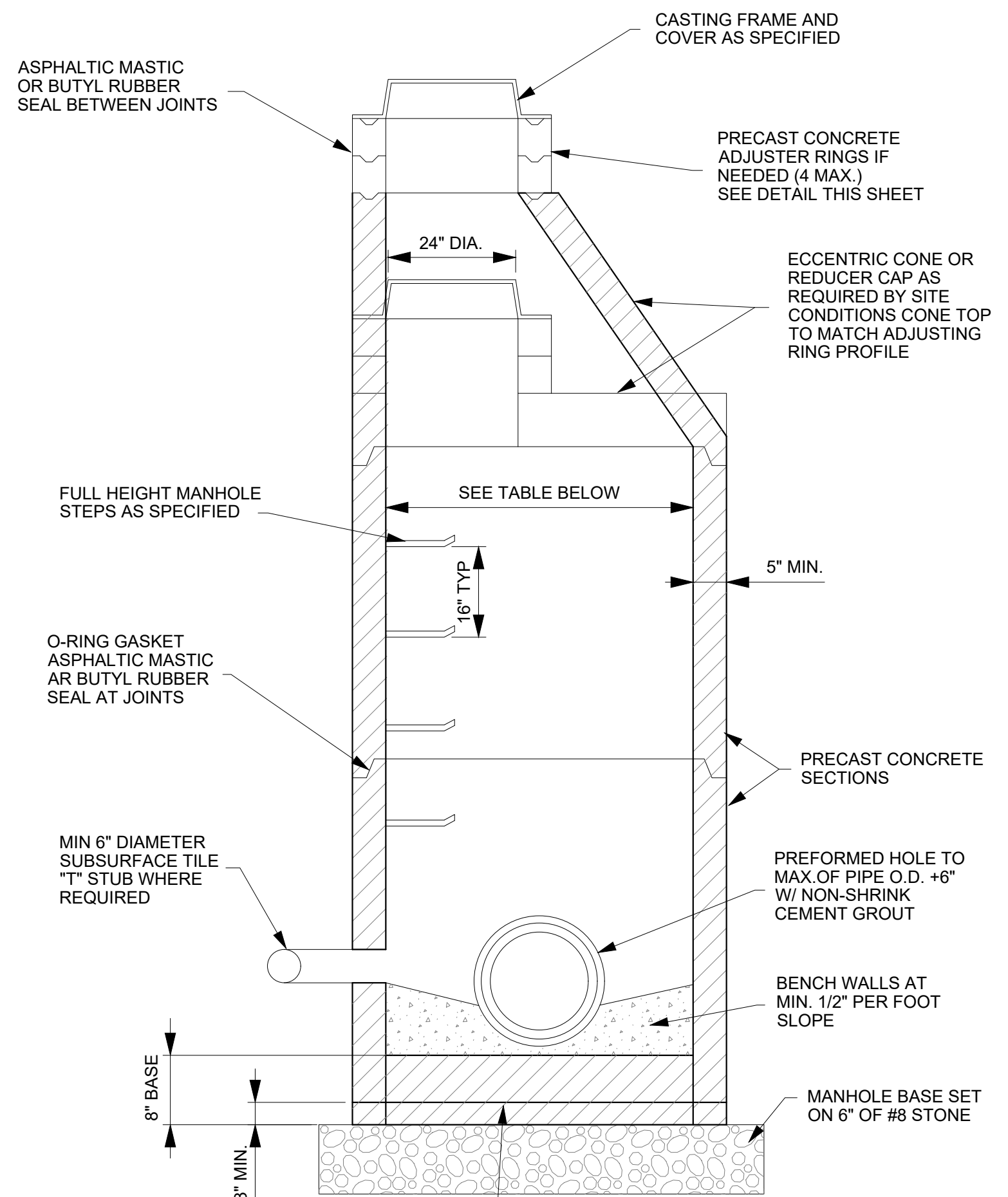
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INDIANA STATE BOARD OF ENGINEERS

DESIGNED: JLM
DRAWN: TMF
CHECKED: JLM
SCALE: 1" = 50'
DATE: 03/22/23



INLET WITH BEEHIVE CASTING (NEENAH R-4215-C CASTING)
NO SCALE (10) C500



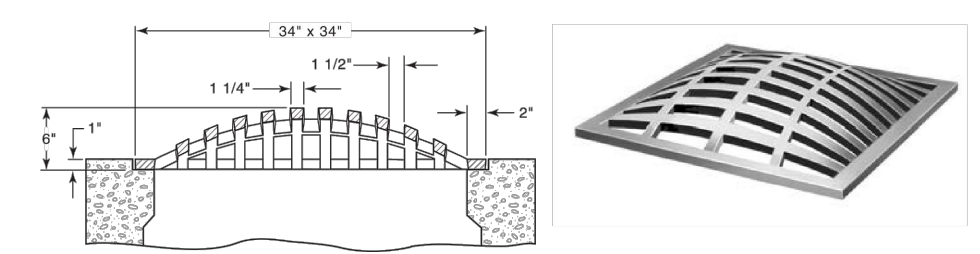
STORM MANHOLE
NO SCALE (8) C500

TABLE 404-2

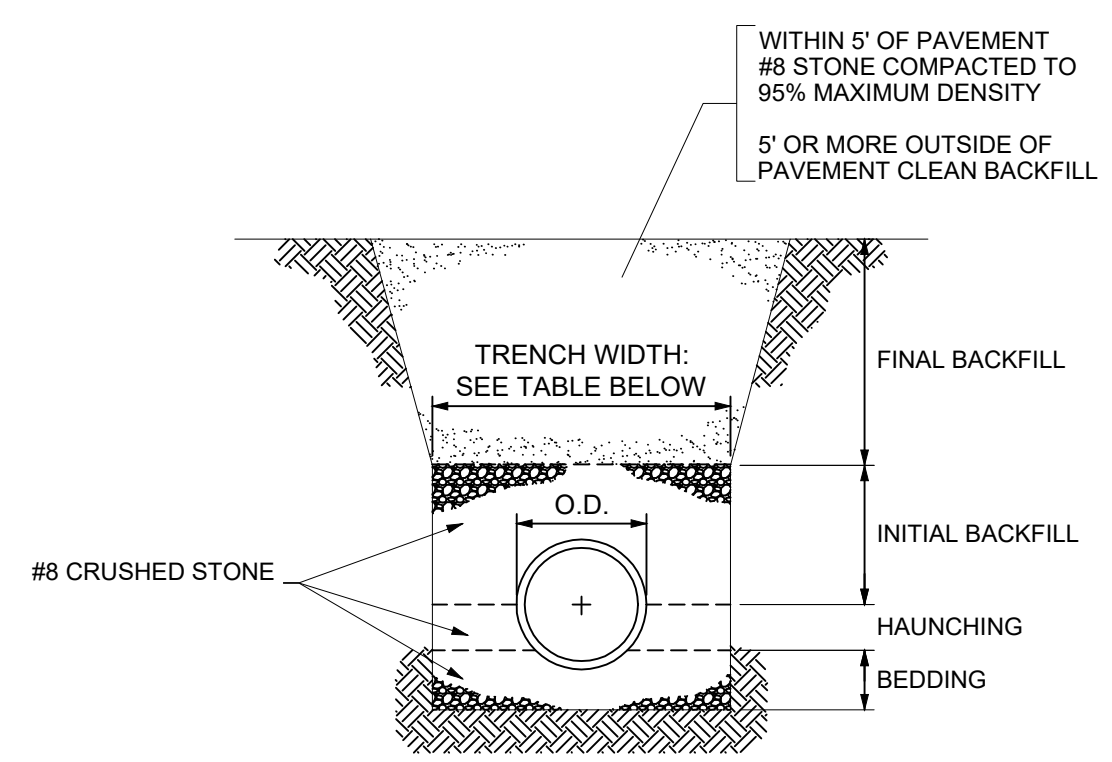
PIPE SIZE	PIPES ENTERING OR LEAVING AT A 0-45 DEGREE ANGLE	PIPES ENTERING OR LEAVING AT A 46-90 DEGREE ANGLE
12" - 21"	48" DIA.	48" DIA.
24"	48" DIA.	60" DIA.
27" - 30"	60" DIA.	60" DIA.
33" - 36"	60" DIA.	72" DIA.

R-4215-C Convex Grate
Heavy Duty

CATALOG NUMBER	GRATE TYPE	SO. PERIMETER OPEN FEET	WEIR PERIMETER LINEAL FEET
R-4215-C	Convex	33	113



NEENAH R-4215-C
NO SCALE (11) C500



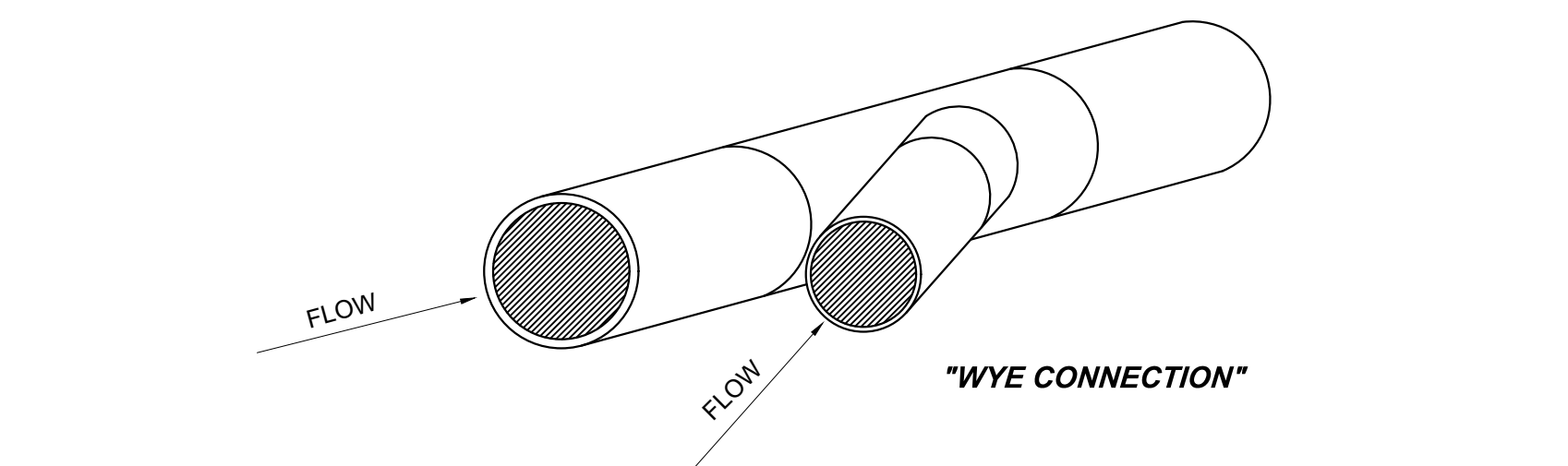
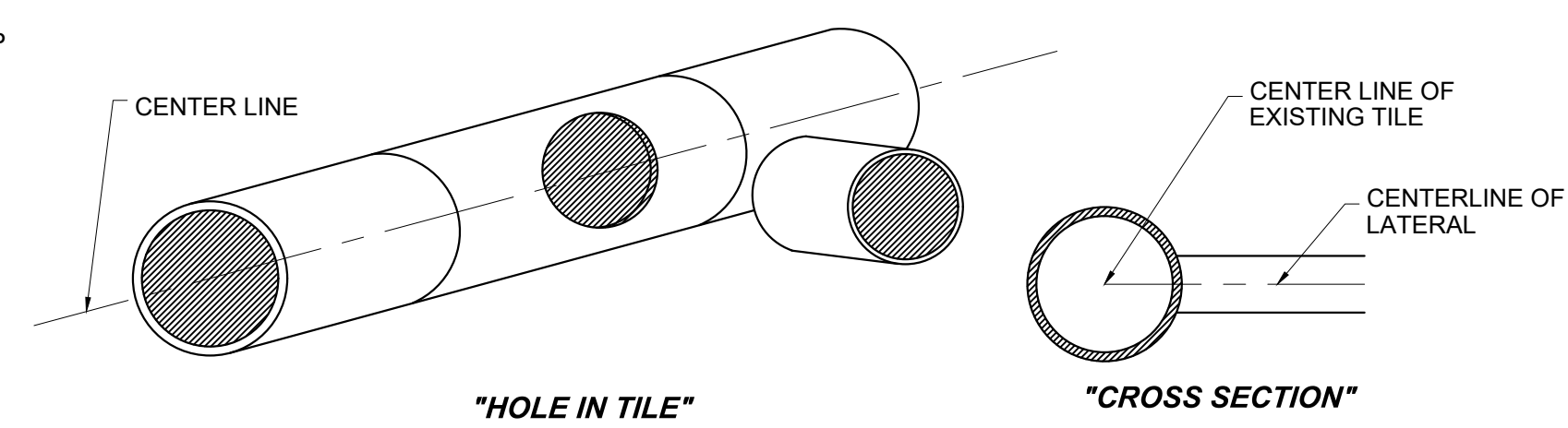
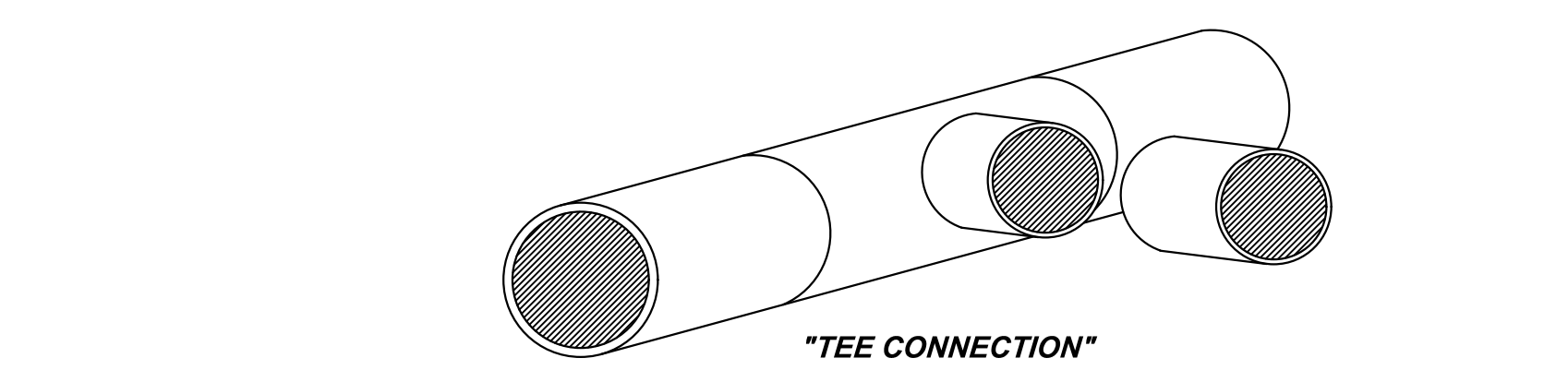
MINIMUM BEDDING, HAUNCHING AND INITIAL BACKFILL DEPTHS

PIPE SIZE	BEDDING (BELOW PIPE BARREL)	HAUNCHING AND INITIAL BACKFILL (ABOVE TOP OF PIPE)
UNDER 8"	4" MIN.	4" MIN.
8" TO 15"	4" MIN.	12" MIN.
18" & OVER	8" MIN.	12" MIN.

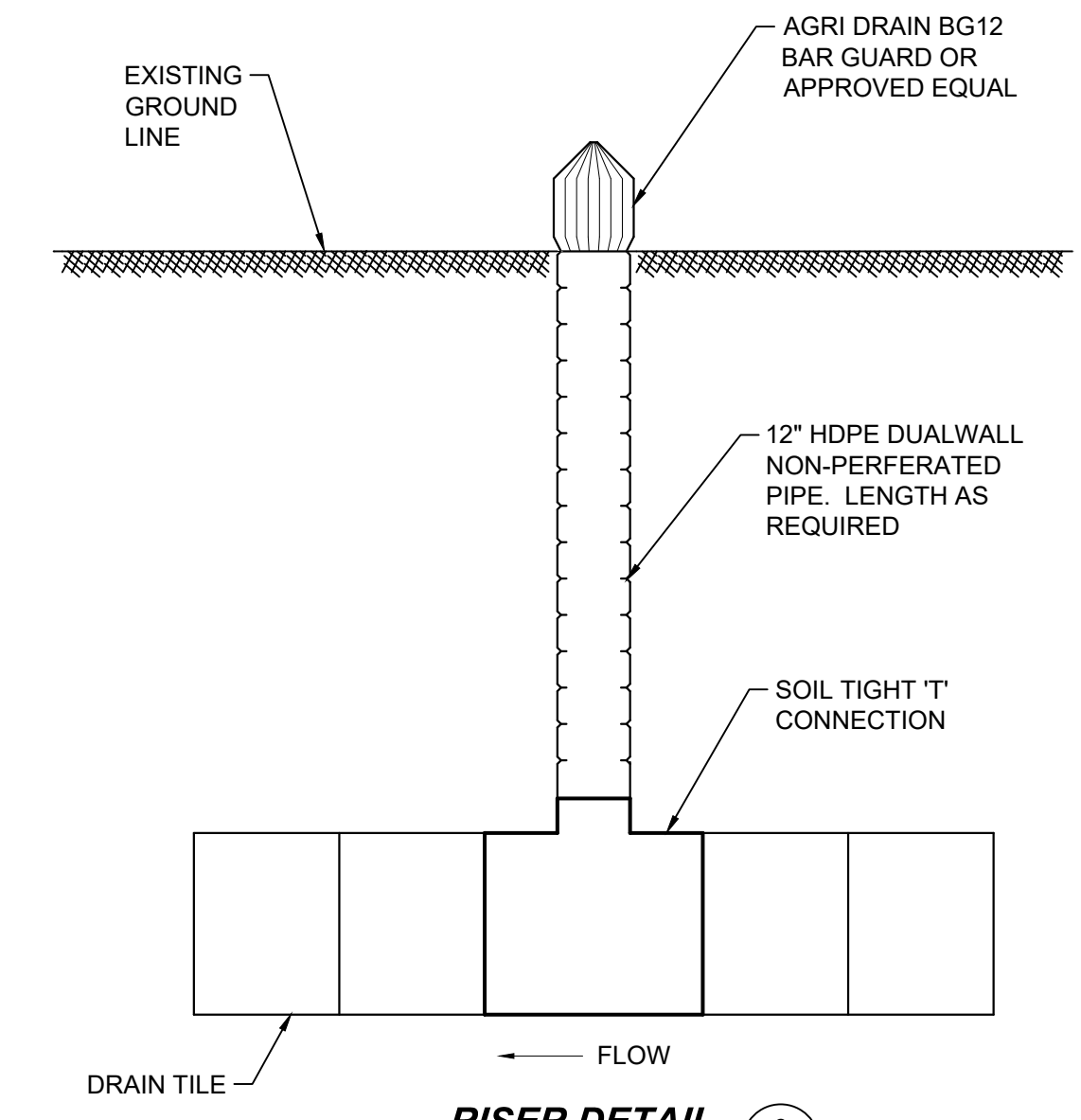
MINIMUM TRENCH WIDTHS

PIPE SIZE	MINIMUM WIDTH
UP TO 18"	O.D. + 16"
18" & OVER	(O.D. x 1.25) + 12"

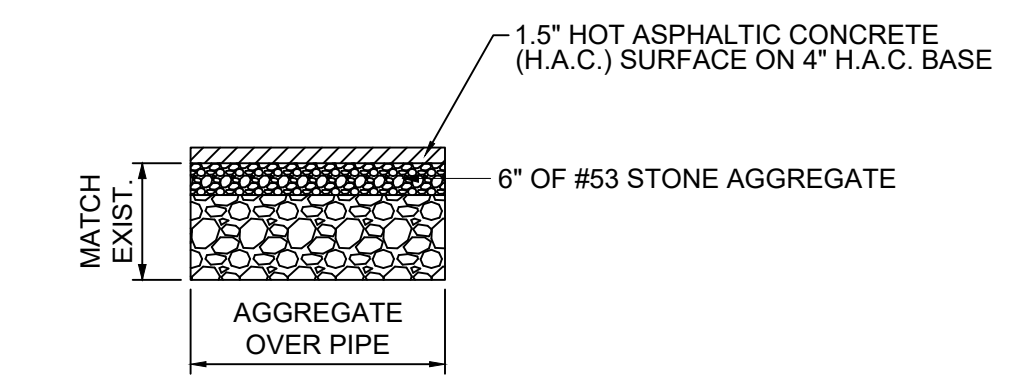
FLEXIBLE PIPE BEDDING & BACKFILL
NO SCALE (9) C500



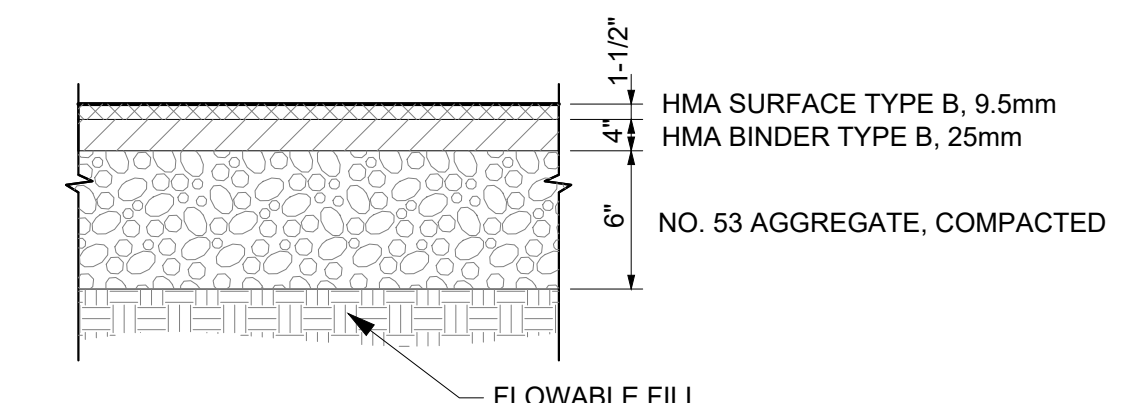
TILE CONNECTION
NO SCALE (5) C500



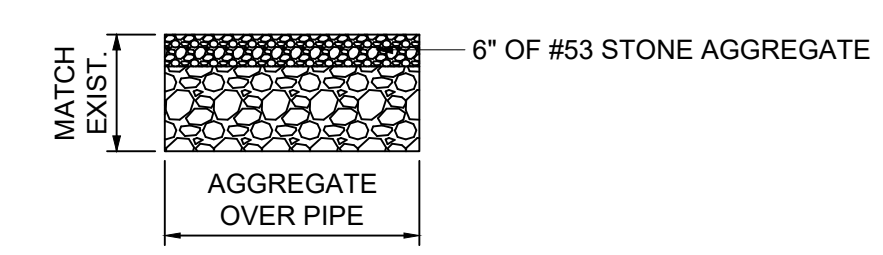
RISER DETAIL
NO SCALE (6) C500



REPAIR OF PAVEMENT DRIVEWAY CUTS
NO SCALE (7) C500



ROADWAY REPAIR DETAIL
NO SCALE (2) C500



REPAIR OF STONE DRIVEWAY CUTS
NO SCALE (3) C500

Stabilization Practice

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
Permanent Seeding			A			*//////*		*//				
Dormant Seeding	B										B	
Temporary Seeding			C			*//////*		D				
Sodding						F**		*//////*				
Mulching												G

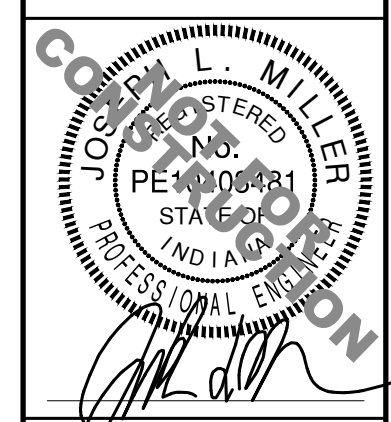
A = Kentucky Bluegrass 40 lbs/acre; or 40 lbs. tall Fescue; plus 2 tons straw mulch/acre or add Annual Ryegrass 20 lbs/acre.
 B = Kentucky Bluegrass 60 lbs/acre; or 40 lbs. tall Fescue; plus 2 tons straw mulch/acre or add Annual Ryegrass 30 lbs/acre.
 C = Spring Oats 100 lbs./acre
 D = Wheat or Rye 150 lbs./acre.
 E = Annual Ryegrass 40 lbs/acre. (1 lb./1000 sq. ft.)
 F = Sod
 G = Straw Mulch 2 tons/acre.
 *// 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.

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 (1) C500

Designated	Drawn	Checked	Scale	Date
JLM	TMF	JLM	NONE	05/22/23

MISCELLANEOUS DETAILS
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