



ELECTRICAL UTILITY:
DUKE ENERGY
1000 EAST MAIN STREET
PLAINFIELD, IN 46168
PHONE (800) 774.1202

WATER UTILITIES:
CITIZENS WATER
2020 N MERIDIAN ST
INDIANAPOLIS, IN 46202
PHONE: (317) 924-3311

GAS UTILITY:
CENTERPOINTE ENERGY (VECTREN)
P.O. BOX 6248
INDIANAPOLIS, IN 46206
PHONE (800) 227-1376

SANITARY SEWER UTILITIES:
NEW PALESTINE WASTEWATER
42 E. MAIN STREET
NEW PALESTINE, IN 46163
PHONE: (317) 861-4727

TOWN OF NEW PALESTINE:
TOWN HALL
42 E. MAIN STREET
NEW PALESTINE, IN 46163
PHONE: (317) 861-4727

OWNER INFORMATION

TKC Properties LLC
6910 North Shadeland Ave. Suite 201
Indianapolis, Indiana 46220
PHONE: (317) 890-1714

PROPOSED PROJECTS ADDRESS

Addition to:
New Pal Shops
5936 Dragon Drive
New Palestine, Indiana 46163

BUILDING INFORMATION:

MISCELLANEOUS BUILDING INFORMATION:
OCCUPANCY GROUP: M, CONSTRUCTION TYPE II-B
TOTAL SQUARE FOOTAGE: 5,674.88 SQ. FT.
BUILDING MAX HT. 26'-1 1/2"
BUILDING DESIGN TO MEET EARTHQUAKE ZONE ONE
BUILDING TO MEET ADA (AMERICAN DISABILITY ACT)

ENGINEERING AND CERTIFICATION:



570 Tracy Road, Suite 630
New Whiteland, IN 46184
Office: 317-535-3579
Cell: 317-509-4142
BaxterEngineeringllc@gmail.com

PLANS CERTIFIED BY:
TRENT A. BAXTER P.E.
REGISTERED P.E. No. 19700309
DATE: SEPTEMBER 4, 2026



INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
T100	TITLE SHEET
CIVIL PLANS	
1 and 2 of 2	LOT 4 PLAT PLAN
1, 2, and 3 of 3	LOT 5 PLAT PLAN
C100	SITE DEMOLITION PLAN
C200	SITE LAYOUT PLAN
C210	SITE LANDSCAPING PLAN
C300	SITE UTILITY PLAN
C310	SITE PHOTOMETRIC PLAN
C400	SITE GRADING PLAN
C500	SITE EROSION CONTROL PLAN
C520	EROSION CONTROL DETAILS
C530	EROSION CONTROL DETAILS
C540	EROSION CONTROL DETAILS, IMPLEMENTATION AND MAINTENANCE GUIDELINES
C600	GENERAL SITEWORK DETAILS
C700	GENERAL SITEWORK NOTES

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Br	Brookston silty clay loam, 0 to 2 percent slopes	1.7	78.7%
CrA	Crosby silt loam, New Castle Till Plain, 0 to 2 percent slopes	0.4	21.3%
Totals for Area of Interest		2.1	100.0%

[illegible]

INSTRUMENT NO. _____

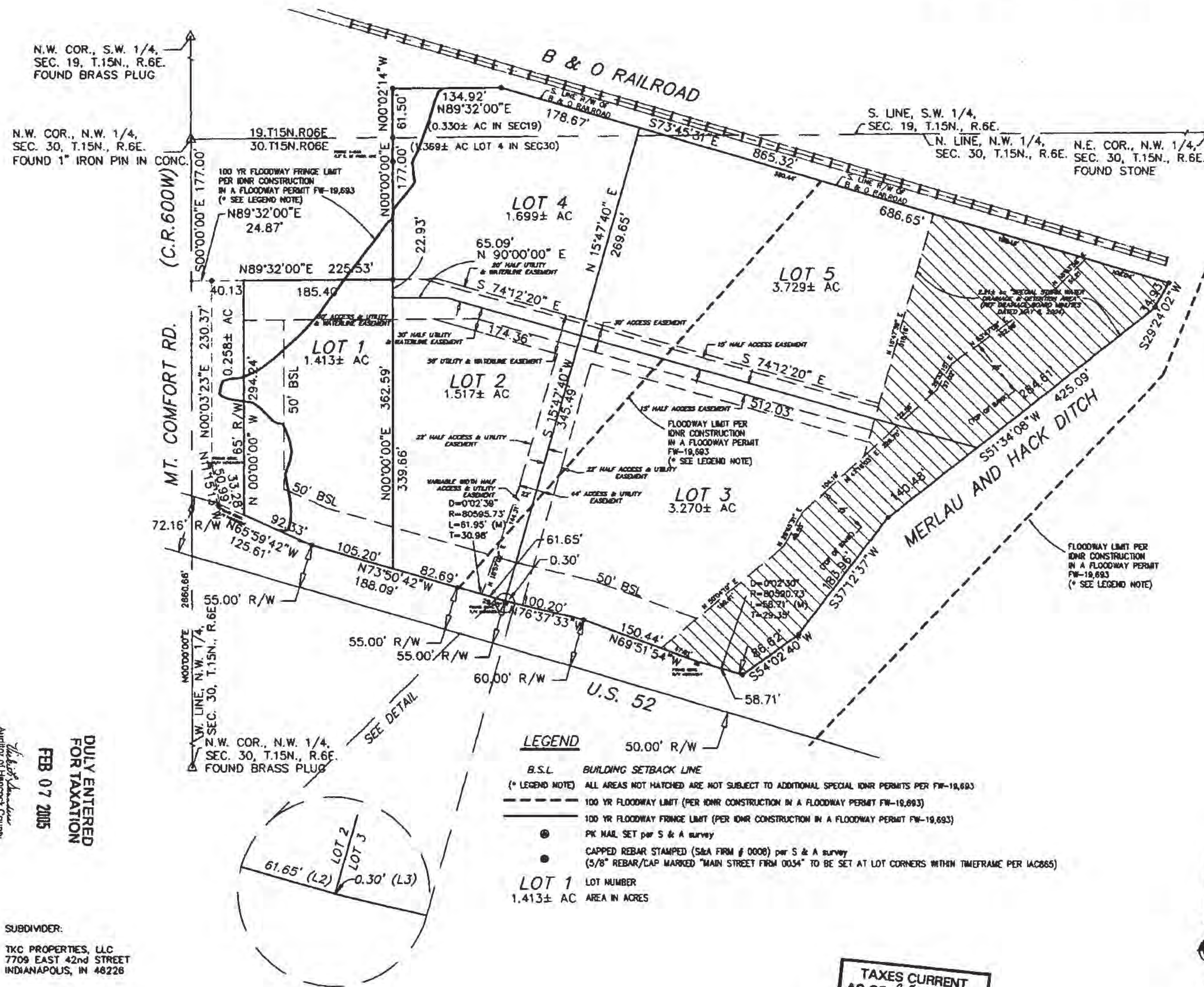
CAROLYN GRASS 2P
HANCOCK COUNTY RECORDER
CJG Date 02/07/2005 Time 13:18:03
FEE: 23.00
I 050001638 Page 1 of 2

PLAT CABINET: C SLIDE: 192
INSTRUMENT NO. 050001638
COVENANTS 050005331

NEW PALESTINE COMMERCIAL CENTER

A PART OF SECTION 19 & 30, TWP. 15 N, RNG. 06 E
SUGAR CREEK TOWNSHIP, HANCOCK COUNTY, INDIANA

INDIANA
Easement 050001645



JOB NUMBER 04.0028

SUBDIVIDER:
TKC PROPERTIES, LLC
7709 EAST 42nd STREET
INDIANAPOLIS, IN 46226

**MAIN STREET
CONSULTING COMPANY**

99 West Jefferson Street PH: 317.736.0579
Franklin, Indiana 46131 FAX: 317.736.0929
www.mainstreetconsulting.com

TAXES CURRENT
AS OF 2-2-85

#008-7/238-01

RAYMOND
IN
TOWN

SHEET 1 OF 2

PLAT CABINET: _____ SLIDE: _____
INSTRUMENT NO. _____

I 050001638

Page 2 of 2

PLAT CABINET: C SLIDE: 192
INSTRUMENT NO. 050001638

NEW PALESTINE COMMERCIAL CENTER

A PART OF SECTION 19 & 30, TWP. 15 N, RNG. 06 E
SUGAR CREEK TOWNSHIP, HANCOCK COUNTY, INDIANA

LAND DESCRIPTION

A part of the Northwest Quarter of Section 30, Township 15 North, Range 6 East, and a part of the Southwest Quarter of Section 19, Township 15 North, Range 6 East, in Hancock County, Indiana, more particularly described as follows:

Commencing at the Northwest corner of the Northwest Quarter of said Section 30; thence South 00 degrees 00 minutes 00 seconds East (assumed bearing) along the West line of said Northwest Quarter Section 177.00 feet; thence North 89 degrees 32 minutes 00 seconds East parallel to the North line of said Northwest Quarter Section 24.87 feet to the Eastern Right-of-Way line of County Road 600 West as established per the Right-of-Way Plans for U.S.R. 52, Project STP-082-2(009), and the POINT OF BEGINNING of this description; thence continuing North 89 degrees 32 minutes 00 seconds East parallel to said North line 225.53 feet; thence North 00 degrees 00 minutes 00 seconds East parallel to the West line of said Northwest Quarter Section 177.00 feet to the North line of said Northwest Quarter Section; thence North 00 degrees 02 minutes 14 seconds West parallel to the West line of the Southwest Quarter of said Section 19, a distance of 61.50 feet; thence North 89 degrees 32 minutes 00 seconds East parallel to the South line of said Southwest Quarter Section 134.92 feet to the South Right-of-Way line of the B & O Railroad; thence South 73 degrees 45 minutes 31 seconds East along said South Right-of-Way line 885.32 feet to the center of the Merlau and Hack Ditch, as previously established; thence along the previously established center of said Merlau and Hack Ditch by the next four (4) calls: 1) South 29 degrees 24 minutes 02 seconds West 34.93 feet; 2) South 51 degrees 34 minutes 08 seconds West 425.09 feet; 3) South 37 degrees 12 minutes 37 seconds West 183.96 feet; 4) South 54 degrees 02 minutes 40 seconds West 86.62 feet to the Northern Right-of-Way line of U.S.R. 52 as established per the Right-of-Way Plans for U.S.R. 52, Project STP-082-2(009), and a point on a curve concave southerly, the radius point of said curve being South 16 degrees 25 minutes 07 seconds West 80,590.73 feet from said point; thence along said Northern Right-of-Way line of U.S.R. 52 by the next six (6) calls: 1) westerly along said curve 58.71 feet to the point of tangency of said curve, said point being North 16 degrees 22 minutes 37 seconds East 80,590.73 feet from the radius point of said curve; 2) North 69 degrees 51 minutes 54 seconds West 150.44 feet; 3) North 76 degrees 37 minutes 33 seconds West 100.20 feet to a point on a curve concave southerly, the radius point of said curve being South 16 degrees 11 minutes 56 seconds West 80,595.73 feet from said point; 4) westerly along said curve 61.95 feet to the point of tangency of said curve, said point being North 16 degrees 09 minutes 17 seconds East 80,595.73 feet from the radius point of said curve; 5) North 73 degrees 50 minutes 42 seconds West 188.09 feet; 6) North 65 degrees 59 minutes 42 seconds West 125.61 feet to the Eastern Right-of-Way line of County Road 600 West as established per the Right-of-Way Plans for U.S.R. 52, Project STP-082-2(009); thence along said Eastern Right-of-Way line of County Road 600 West by the next two (2) calls: 1) North 11 degrees 15 minutes 13 seconds West 50.99 feet; 2) North 00 degrees 03 minutes 23 seconds East 230.37 feet to the place of beginning, containing 11.886 acres, more or less.

SURVEYOR'S CERTIFICATE

State of Indiana)
County of Hancock) SS:

Cross-reference is hereby made to an ALTA/ACSM Land Title Survey prepared by Sloppeworth & Associates, Inc., Job No. 29063T, certified by Curtis C. Huff on January 28, 2003, and recorded February 19, 2004 as Instrument Number 040002329 in the Hancock County Recorder's Office.

I, Bradley P. Ott hereby certify that I am a Land Surveyor registered in compliance with the laws of the State of Indiana; and I do hereby further certify that the property described in the above caption was surveyed by the above reference and that I have subdivided the same into block and lots as shown on the hereon drawn plat. This plat correctly represents said survey and subdivision in every detail. Monuments shown are in place or will be as noted. Dimensions are in feet and decimal parts thereof.

WITNESS MY SIGNATURE THIS

27th DAY OF DECEMBER, 2004.

Bradley P. Ott
Bradley P. Ott
Registered Land Surveyor
Indiana-9600012



MAIN STREET
CONSULTING COMPANY

89 West Jefferson Street
Franklin, Indiana 46131
PH: 317.736.0579
FAX: 317.736.0629
www.mainstreetconsulting.com

PLAT RESTRICTION - Annexation Waiver

All lot/block owners who subsequently tap into or are connected with the sanitary sewer system provided for in this subdivision as described in this plat, release their right to object, remonstrate or appeal against pending or future annexation by the Town of New Palestine pursuant to a certain contract dated

_____ day of _____ and filed of record in the Office of the Recorder of Hancock County on the

_____ day of _____

Instrument No. _____

Note: "SSE" denotes Sanitary Sewer Easement granting to the Town of New Palestine the right to erect, construct, install, and use, operate, inspect, repair, maintain, replace, and remove sanitary sewer facilities.

SUBDIVISION PLAT LAYOUT; DEDICATION OF RIGHT OF WAY; GRANT OF ACCESS AND UTILITY, AND WATERMAIN EASEMENT

We, the undersigned TKC PROPERTIES, L.L.C. owners of the real estate shown and described herein, do hereby lay off, plat, and subdivide said real estate in accordance with the within plat

consisting of lots #1, 2, 3, 4 and 5.
This subdivision shall be known and designated as New Palestine Commercial Center. The 65 feet right of way shown along Mount Comfort Road and not therefore dedicated is hereby dedicated to the public. The 30 feet wide Waterline Utility Easement is hereby granted & conveyed to the Indianapolis Water Company for use as a non-exclusive public utility water main easement.

Front building setback lines are hereby established as shown on this plat, between which lines and property lines of the streets there shall be erected or maintained no building or structure. The strips of ground shown on this plat and marked "Access & Utility Easement" are reserved for the non-exclusive use of public utilities for the installation of water and sewer mains, poles, ducts, lines and wires, drainage facilities subject at all times to the proper authorities and to the easement herein reserved. No permanent or other structures are to be erected or maintained upon said strips of land, but owners of lots in this subdivision shall take their titles subject to the rights of the public utilities, and to the rights of the owners of other lots in this subdivision.

CERTIFICATE OF OWNERSHIP

State of Indiana)
County of Hancock) SS

We, the undersigned TKC PROPERTIES, L.L.C. does hereby certify that it is the owner of the property described in the above caption and that as such owner it has caused the said above described property to be surveyed and subdivided as shown on the herein drawn plat, as our own free and voluntary act and deed.

WITNESS our hands and seals

this 7th day of February 2005

Donald J. Thorp
Donald J. Thorp, Managing Member
TKC PROPERTIES, L.L.C.

State of Indiana)
County of Hancock) SS

Before me, the undersigned Notary Public, personally appeared Donald J. Thorp, Managing Member for TKC PROPERTIES, L.L.C., and acknowledged the execution of the foregoing instrument as his voluntary act and deed, for the purposes expressed herein & personally known to me to be the same persons whose names are subscribed to the above certificate appeared before me this day in person and acknowledged that they signed the above certificate as their own free and voluntary act and deed for the uses and purposes therein set forth.

WITNESS my hand and seal

this 7th day of February 2005

Tammy Burkis
Notary Public
Printed Name: Tammy Burkis

Residing in Marion County,
State of Indiana.

My commission expires: 2-4-2008



TAXES CURRENT
AS OF 2-7-05
#009-11238-01

PLAN COMMISSION APPROVAL

Approved by the HANCOCK COUNTY PLAN COMMISSION in accordance with the Subdivision Control Ordinance:

THIS 7th DAY OF February 2005

John D. Kennedy *Dennis C. Fisk*
John D. Kennedy, PLAN COMMISSION CHAIRPERSON
Dennis C. Fisk, PLAN COMMISSION SECRETARY

CERTIFICATE OF COUNTY COMMISSIONERS APPROVAL & ACCEPTANCE OF DEDICATIONS

Under authority provided by Chapter 47, Acts of 1951, The General Assembly, State of Indiana, be it resolved by the Board of County Commissioners Hancock County, Indiana, that the dedications shown on this plat are hereby approved and accepted this

7th day of February 2005

Armin D. Applegate
Armin D. Applegate
John T. Kleiman
John T. Kleiman
Jack E. Haiden
Jack E. Haiden

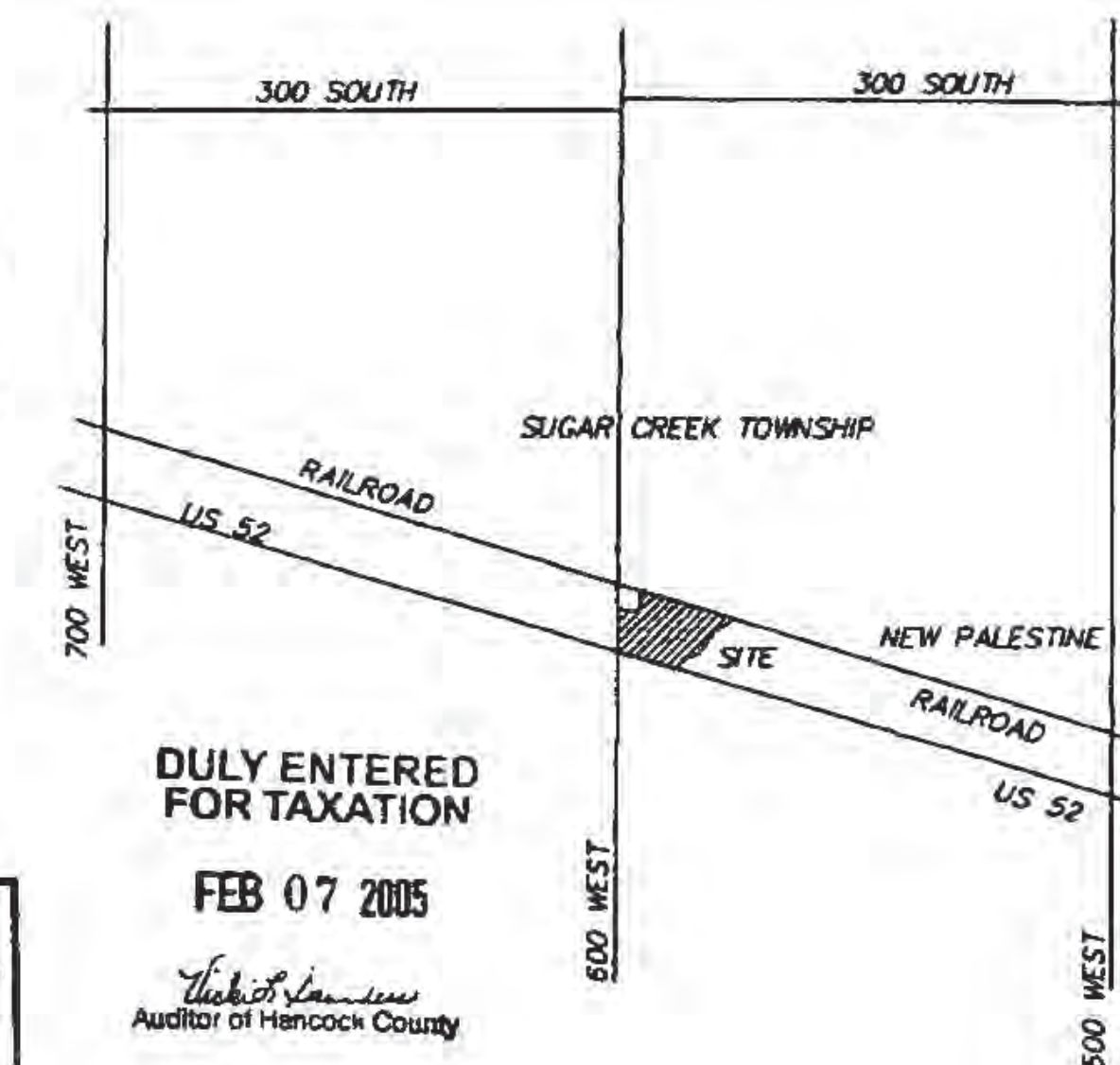
DECLARATION OF EASEMENTS AND RESTRICTIONS

The Lots of this Commercial Subdivision are further subject to that certain "Declaration of Easements, Covenants and Restrictions" for New Palestine Commercial Center fully executed on the

_____ day of _____ and filed of record in the Office of the Recorder of Hancock County on the

_____ day of _____

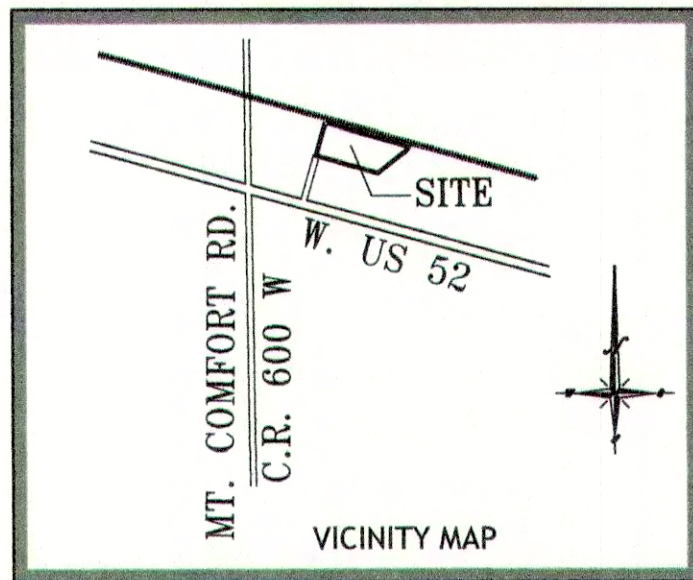
Instrument No. _____ which provides, among other terms and conditions, for cross and reciprocal easements for access, drainage and utilities over and across the common areas of the Commercial Subdivision.



DULY ENTERED
FOR TAXATION

FEB 07 2005

Theresa L. Johnson
Auditor of Hancock County

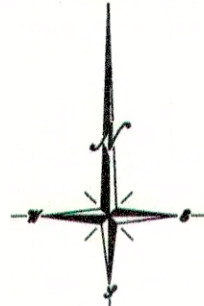


NOTE: THESE LOTS ARE PARTIALLY OR ENTIRELY LOCATED IN ZONE "A" PER THE FEMA FLOOD INSURANCE RATE NUMBER 18059C0207E, DATED MARCH 17, 2014. THE ACCURACY OF THIS FLOOD HAZARD STATEMENT IS SUBJECT TO MAP SCALE UNCERTAINTY AND TO ANY OTHER UNCERTAINTY IN LOCATION OR ELEVATION ON THE REFERENCED FLOOD INSURANCE

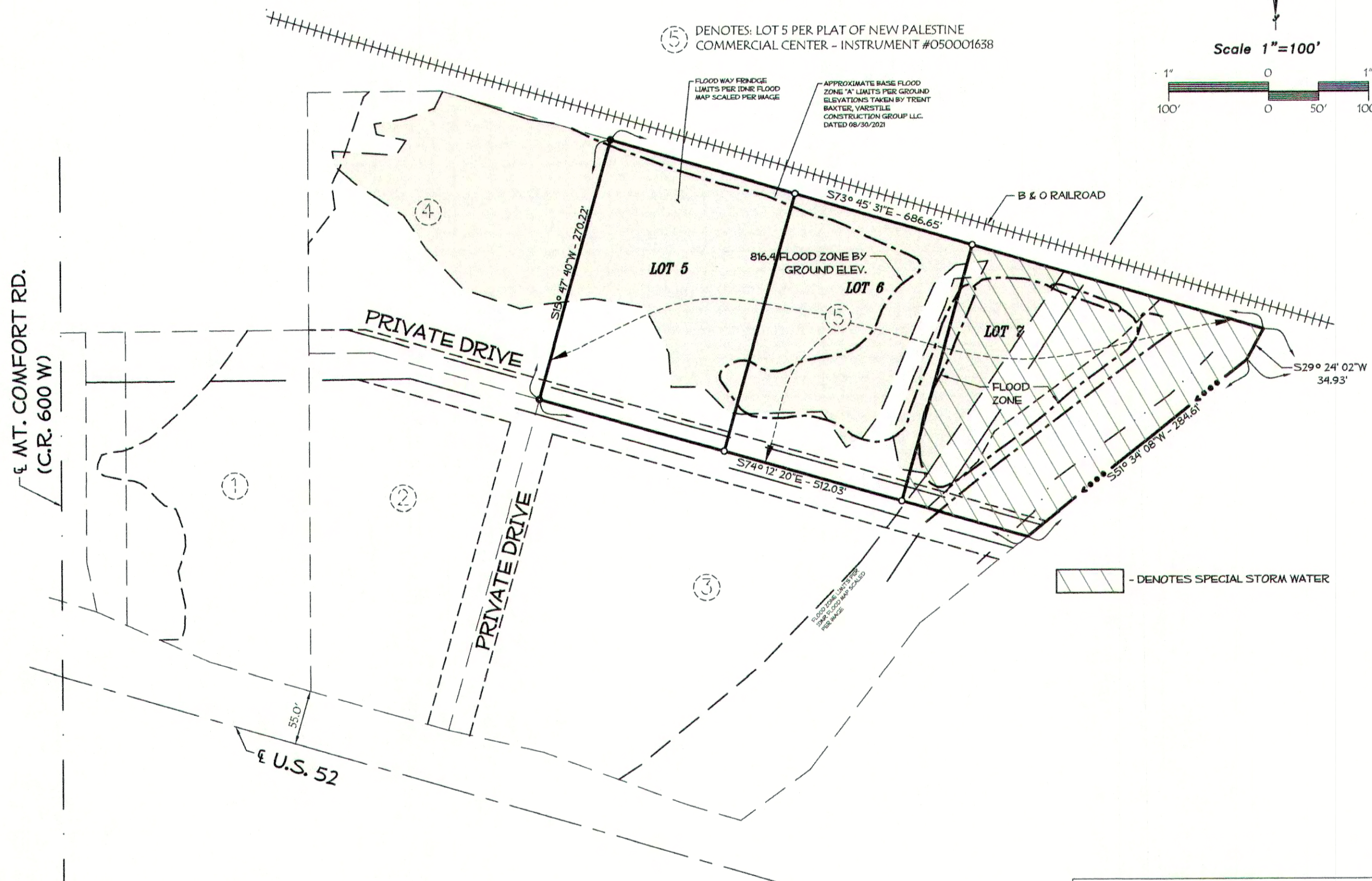
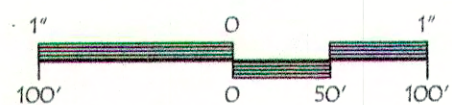
REPLAT OF LOT 5 NEW PALESTINE COMMERCIAL CENTER

SUGAR CREEK TOWNSHIP, HANCOCK COUNTY, INDIANA

CABINET D SLIDE 182
INSTRUMENT NO. 202204139



Scale 1"=100'



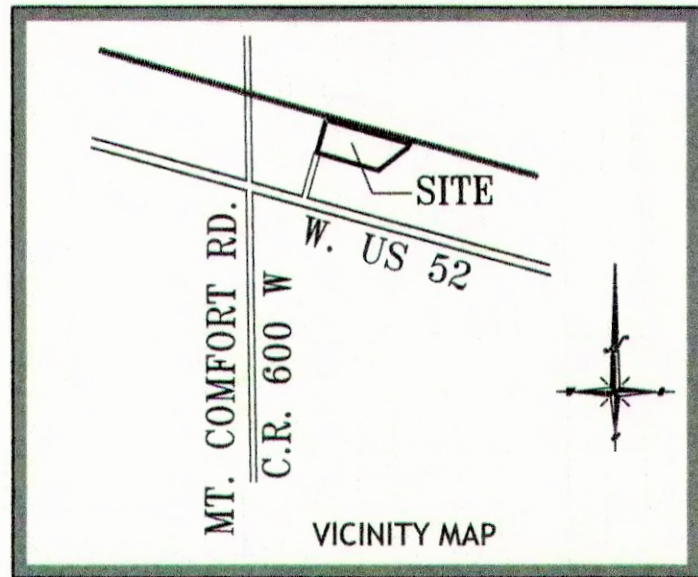
- DENOTES SPECIAL STORM WATER

- ### LEGEND
- - DENOTES 5/8" CAPPED (HGS) REBAR SET
 - - DENOTES 5/8" REBAR FOUND
 - ⊙ - DENOTES MAG NAIL FOUND
 - B.S.L. - DENOTES BUILDING SETBACK LINE

DULY ENTERED
FOR TAXATION
MAR 30 2022

02.07.2022
TAXES CURRENT
AS OF 3.30.22
30.030.201.022.004.015
HAROLD GIBSON
No. LS 910021
STATE OF INDIANA
LAND SURVEYOR
Jared Klumme

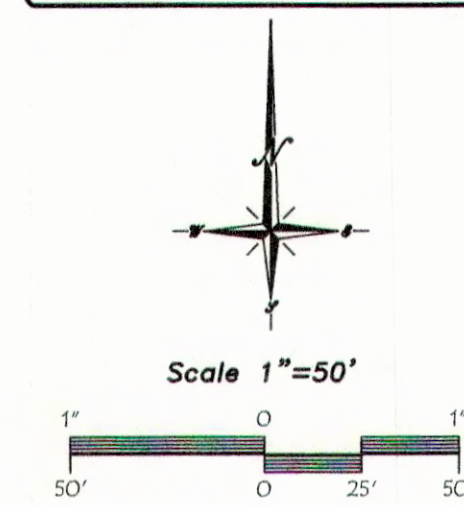
H. GIBSON
LAND SURVEYING, LLC
321 North State Street
Greenfield, IN 46140
317-462-4055



REPLAT OF LOT 5 NEW PALESTINE COMMERCIAL CENTER

SUGAR CREEK TOWNSHIP, HANCOCK COUNTY, INDIANA

CABINET D SLIDE 182
INSTRUMENT NO.
202204139



NOTE: THIS LOTS ARE LOCATED IN ZONE "A"
PER THE FEMA FLOOD INSURANCE RATE
NUMBER 18059C0207E, DATED MARCH 17,
2014. THE ACCURACY OF THIS FLOOD HAZARD
STATEMENT IS SUBJECT TO MAP SCALE
UNCERTAINTY AND TO ANY OTHER
UNCERTAINTY IN LOCATION OR ELEVATION
ON THE REFERENCED FLOOD INSURANCE

LOT AREAS:

LOT 5 = 1.134 ACRES±
LOT 6 = 1.082 ACRES±
LOT 7 = 1.382 ACRES±

TOTAL = 3.598 ACRES±

LEGEND

- - DENOTES 5/8" CAPPED (HGS) REBAR SET
- - DENOTES 5/8" REBAR FOUND
- ⊙ - DENOTES MAG NAIL FOUND
- B.S.L. - DENOTES BUILDING SETBACK LINE

⑤ DENOTES: LOT 5 PER PLAT OF NEW PALESTINE
COMMERCIAL CENTER - INSTRUMENT #050001638

APPROXIMATE BASE FLOOD ZONE "A"
LIMITS PER GROUND ELEVATIONS
TAKEN BY TRENT BAXTER,
VARSTILE CONSTRUCTION GROUP
LLC, DATED 08/30/2021

B & O RAILROAD

SPECIAL STORM WATER
DRAINAGE & DETENTION
AREA PER INST. #050001638

75' LEGAL DRAIN EASEMENT
PER INST. #050001638
(MEASURED FROM TOP OF BANK)

MERLAU AND HACK DITCH

DULY ENTERED
FOR TAXATION

MAR 30 2022

Hebra A. Carnes
Auditor of Hancock County



02.07.2022



OWNER/DEVELOPER:

TKC Properties, LLC
6910 N. Shadeland Avenue, Suite
200
Indianapolis, IN 46220

REPLAT LOT 5 IN NEW PALESTINE COMMERCIAL CENTER

AN ADDITION TO THE TOWN OF NEW PALESTINE, INDIANA.

SECONDARY PLAT - LEGAL DESCRIPTION, SURVEY CERTIFICATION AND APPROVALS

CABINET

D

SLIDE

182

INSTR. #

202204139

LEGAL DESCRIPTION

Lot 5 in the plat of New Palestine Commercial Center as per plat thereof recorded as Instrument Number 050001638, Plat Cabinet C, Slide 192 in the Office of the Recorder of Hancock County, Indiana.

SURVEYOR'S CERTIFICATE

This REPLAT consists of THREE (3) LOTS, numbered 5, 6 AND 7 as shown on the within plat. The dimensions are shown in feet and decimal parts thereof.

I, Harold Gibson, do hereby certify that I am a Registered Land Surveyor licensed in compliance with the laws of the State of Indiana and that this REPLAT to best of my professional knowledge, information and belief correctly represents a survey completed by me; there has been no change from the matters of survey revealed by the cross-referenced survey on any lines that are common with the new subdivision. I further certify that the said subdivision was platted under my direct supervision and control and that all monuments shown thereon, unless otherwise required by Local Ordinance, may be delayed being placed for up to two years from the recordation of this plat per standards set forth in Title 865 IAC 1-12-18 Subsection (b)(1)(2), and that all other requirements specified herein done by me, have been met.

Cross-reference is hereby made to the recorded plat of New Palestine Commercial Center as per plat thereof recorded as Instrument Number 050001638 in the Office of the Recorder of Hancock County, Indiana as prepared by Mani Street Consulting Company. There are no changes to the perimeter lines of Lot 5 per said plat.

The current zoning of this subdivision, as noted on the official zone map of the Town of New Palestine, Indiana, is B-2.

Witness my signature this 23 day of MARCH, 2022.

Harold Gibson, Professional Land Surveyor, PLS910021
State of Indiana



ZONING ADMINISTRATOR CERTIFICATE

The New Palestine Plan Commission staff has reviewed the application for this replat for technical conformity with the standards fixed in the subdivision control plan, in accordance with the provisions of the Indiana Advisory Planning Law, IC 36-7-4-706, and hereby certifies that this replat meets all of the minimum requirements in the code of ordinances of New Palestine, Indiana.

NEW PALESTINE ADVISORY PLAN COMMISSION STAFF:

Jim Robinson, ZONING ADMINISTRATOR
New Palestine, Indiana

DATE: 3-18, 2022.

We the undersigned, TKC Properties, LLC, by Donald J. Tharp, Managing Member, owner of the real estate shown and described herein, do hereby certify that we have laid off, platted and subdivided, and hereby lay off, plat and subdivide, said real estate in accordance with the within replat. We do further certify that this replat is made and submitted with our free consent and desires.

This subdivision shall be known and designated as "REPLAT OF LOT 5 IN NEW PALESTINE COMMERCIAL CENTER, AN ADDITION TO THE TOWN OF NEW PALESTINE, INDIANA". Building setback lines AND easements are as shown on the plat of New Palestine Commercial Center, recorded as Instrument Number 050001638 with Covenants recorded as Instrument Number 050005331 in the office of the Recorder of Hancock County, Indiana. The lots created by this replat shall be subject to all terms and conditions of said plat and covenants.

The foregoing covenants are to run with the land and shall be binding on all parties and all persons claiming under them until January 1, 2040 at which time said covenants and restrictions shall be automatically extended for successive periods of ten (10) years unless changed pursuant to the terms and conditions of the Declarations in whole or in part. Invalidity of any one of the foregoing covenants, or restrictions, by judgment or court order shall in no way affect any other covenants or restrictions, which shall remain in full force and effect.

The right to enforce these provisions by injunction, together with the right to cause the removal, by due process of law, of any structure or part thereof erected, or maintained in violation hereof, is hereby dedicated to the public, and reserved to the several owners of the several lots in this plat and to their heirs and assigns.

Witness my hand and seal this 18th day of MARCH, 2022

TKC PROPERTIES, LLC

Donald J. Tharp, Managing Member

STATE OF INDIANA)

) SS:

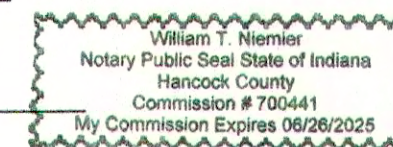
COUNTY OF HANCOCK)

Before me the undersigned Notary Public, in and for said County and State, personally appeared Donald J. Tharp and acknowledged the execution of the foregoing instrument as their voluntary act and deed, for the purposes therein expressed.

Witness my hand and notary seal this 18th day of MARCH, 2022

William T. Niemier
Notary Public— (printed name)

My Commission expires 6/26/2025 My County of Residence Hancock



COMMISSION CERTIFICATE FOR PRIMARY APPROVAL

Under authority provided by the Indiana Advisory Planning Law, IC 36-7-4, enacted by the General Assembly of the State, and all acts amendatory thereto, and an ordinance adopted by the Town Council of New Palestine, Indiana, this replat was given PRIMARY approval by the New Palestine Advisory Plan Commission as follows:

Approved by the New Palestine Advisory Plan Commission at a meeting held on the 2nd day of MARCH, 2022

NEW PALESTINE ADVISORY PLAN COMMISSION:

(SEAL) Rawn Walley 3/18/2022

Rawn Walley, PRESIDENT

COMMISSION CERTIFICATE FOR SECONDARY APPROVAL

Under authority provided by the Indiana Advisory Planning Law, IC 36-7-4, enacted by the General Assembly of the State, and all acts amendatory thereto, and an ordinance adopted by the Town Council of New Palestine, Indiana, this replat was given SECONDARY approval by the New Palestine Advisory Plan Commission as follows:

Approved by the New Palestine Advisory Plan Commission at a meeting held on the 2nd day of MARCH, 2022.

NEW PALESTINE ADVISORY PLAN COMMISSION:

(SEAL) Rawn Walley 3/18/2022

Rawn Walley, PRESIDENT

DULY ENTERED
FOR TAXATION

MAR 30 2022

Debra A. Carnes
Auditor of Hancock County

REVISED: NOVEMBER 30, 2021

REVISED: FEBRUARY 07, 2022

REVISED: MARCH 18, 2022

BENCHMARKS:

BENCHMARK:
NGS BENCHMARK J 238 USGS QUAD. ACTON

DESCRIBED BY COAST AND GEODETIC SURVEY 1947
4.8 MI S FROM CUMBERLAND.
ABOUT 0.2 MILE EAST ALONG U.S. HIGHWAY 40 FROM THE POST OFFICE
AT CUMBERLAND, THENCE 4.55 MILES SOUTH ALONG THE COUNTY LINE
ROAD, 0.3 MILE SOUTH OF A SIDE ROAD LEADING EAST, 180 FEET OF THE
CENTER LINE OF A FIELD ENTRANCE ROAD, 19 FEET EAST OF THE CENTER
LINE OF THE COUNTY LINE ROAD, 4.5 FEET NORTH OF A POWER POLE, 15
FEET SOUTH OF A 28-INCH IRONWOOD TREE, 1 FOOT WEST OF A FENCE
LINE, 2 FEET NORTH OF A WHITE WOODEN WITNESS
POST, ABOUT LEVEL WITH THE ROAD AND SET IN THE TOP OF A CONCRETE
POST PROJECTING ABOUT 5 INCHES. NOTE-- THIS MARK MAY BE
REACHED
FROM THE POST OFFICE AT ACTON, MARION COUNTY, BY GOING NORTHEAST
AND NORTH ALONG A ROAD LEADING TO CUMBERLAND THAT FOLLOWS THE
HANCOCK-SHELBY AND MARION COUNTY LINE FOR ABOUT 4.8 MILES.
NAVD "88" = 811.24

TBM #1

ENGRAVED X ON EAST SIDE OF CONCRETE BASE OF EXISTING LIGHT POLE
LOCATED NEAR THE SOUTHWEST CORNER OF THE NEW BUILDING ADDITION.
ELEVATION:= 821.20

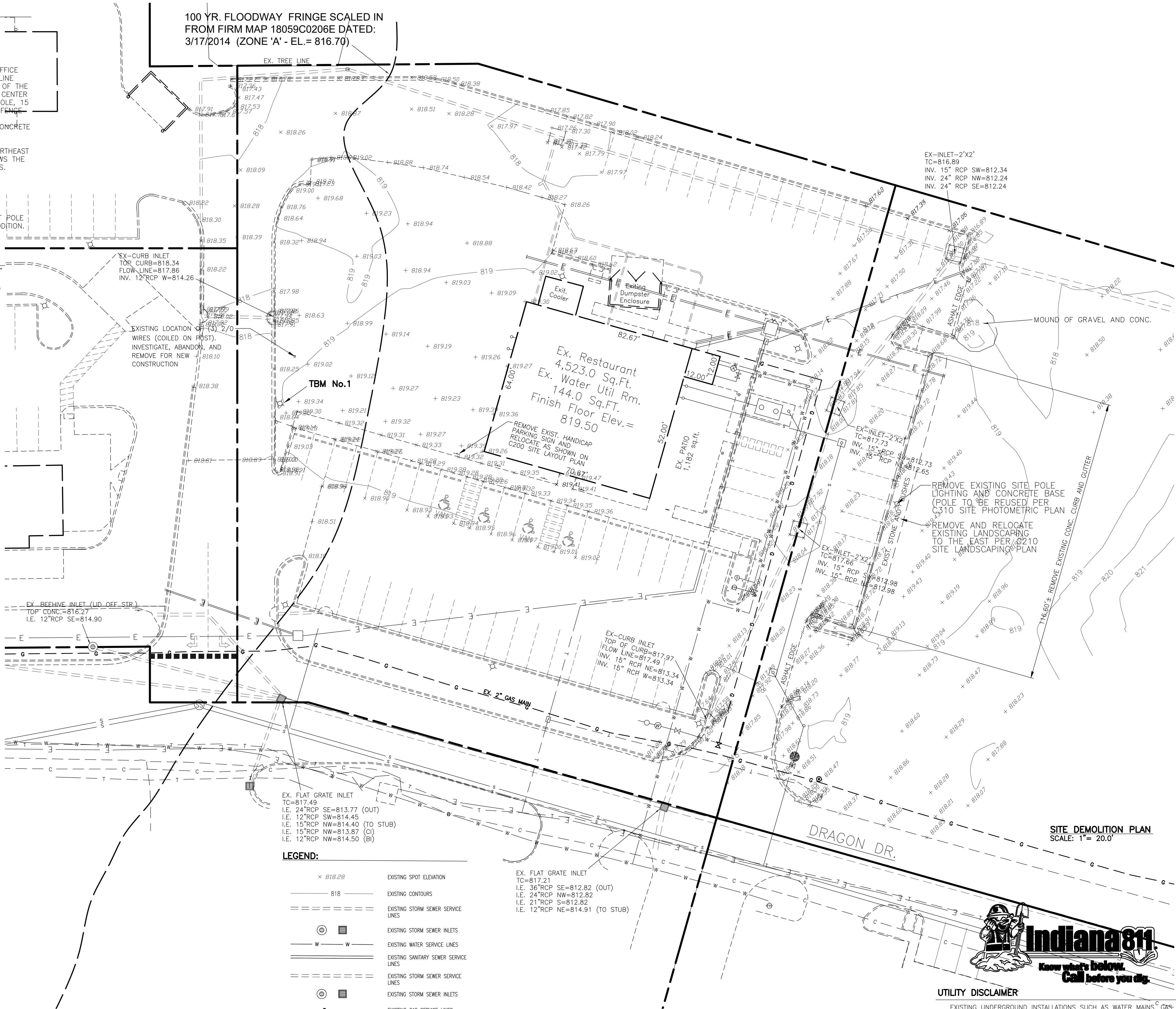
FLOOD NOTE:

THE PARCEL DESCRIBED AND SHOWN HEREIN LIES WITHIN ZONE "A"
AND "X" AS SAID PER THE INDIANA FLOOD PLAIN PORTAL WEBSITE.
THE ACCURACY OF THIS FLOOD HAZARD STATEMENT IS SUBJECT TO
MAP SCALE UNCERTAINTY AND TO ANY OTHER UNCERTAINTY IN
LOCATION OR ELEVATION ON THE REFERENCED FLOOD INSURANCE
RATE MAP.
BASE FLOOD ELEVATION: 816.70

EROSION CONTROL INFORMATION:

SEE SITE EROSION CONTROL PLAN FOR LOCATIONS AND
INSTALLATION OF ALL EROSION CONTROL MEASURES
REQUIRED ON THIS SITE.

100 YR. FLOODWAY FRINGE SCALED IN
FROM FIRM MAP 18059C0206E DATED:
3/17/2014 (ZONE 'A' - EL.= 816.70)



LEGEND:

x 818.28	EXISTING SPOT ELEVATION
818	EXISTING CONTOURS
=====	EXISTING STORM SEWER SERVICE LINES
⊕	EXISTING STORM SEWER INLETS
W W	EXISTING WATER SERVICE LINES
=====	EXISTING SANITARY SEWER SERVICE LINES
=====	EXISTING STORM SEWER SERVICE LINES
⊕	EXISTING STORM SEWER INLETS
- G -	EXISTING GAS SERVICE LINES
- E -	EXISTING ELECTRICAL SERVICE LINES
- T -	EXISTING COMMUNICATION SERVICE LINES
- C -	EXISTING CABLE SERVICE LINES

SITE DEMOLITION PLAN
SCALE: 1"= 20.0'

UTILITY DISCLAIMER

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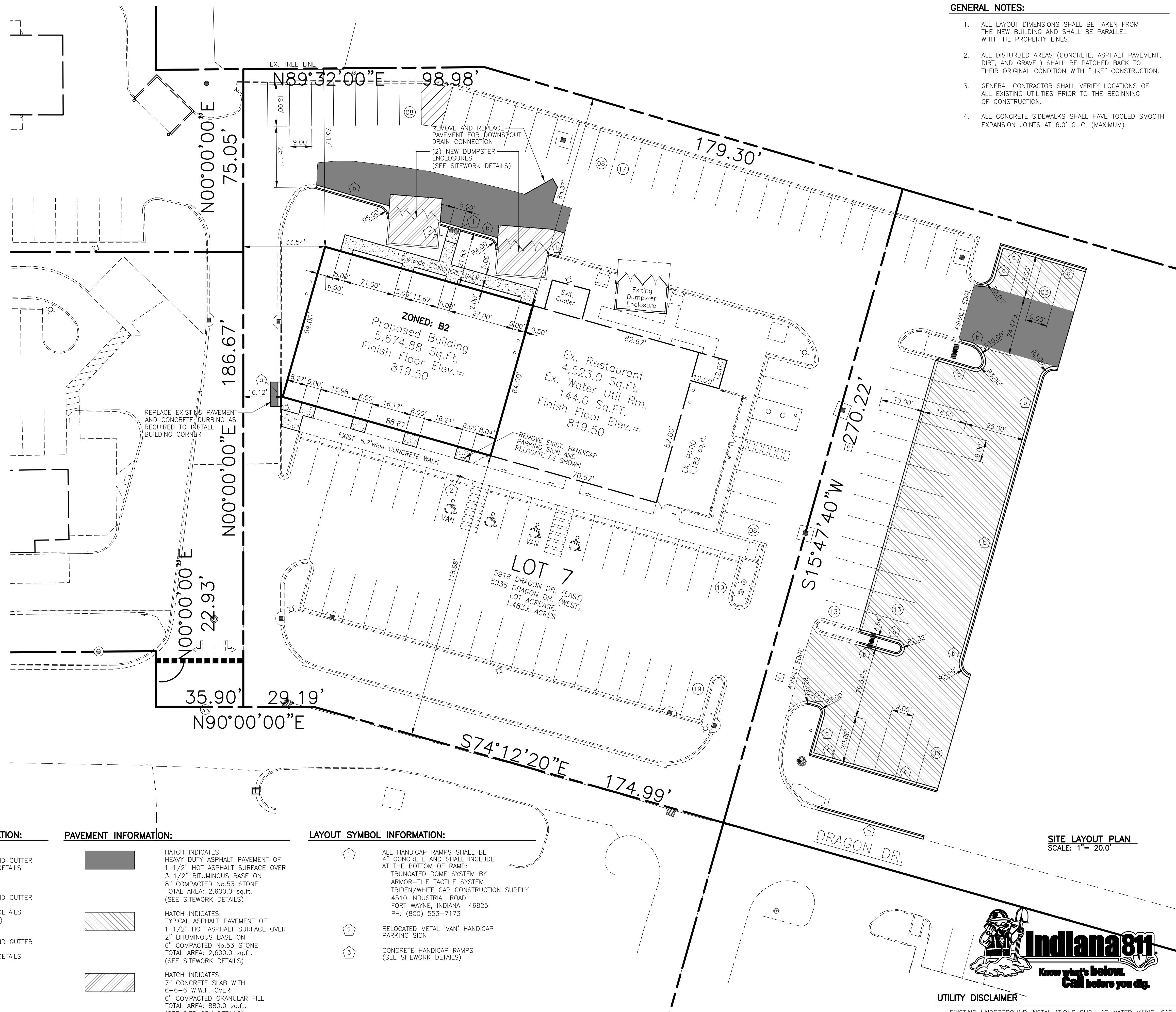
VERSATILE
CONSTRUCTION GROUP, LLC
570 East Tracy Road • Suite 610 • New Whiteland, Indiana 46184
Phone: 317-532-4142
www.versatileconstruction-llc.com

INDIANAPOLIS
STATE OF INDIANA
PROFESSIONAL ENGINEER
No. 9700309
J. A. Baxter
CERTIFIED BY:

BE
BAXTER ENGINEERING LLC
570 Tracy Road, Suite 630
New Whiteland, IN 46184
Phone: 317-532-4142
BaxterEngineeringllc@gmail.com

Addition to:
New Pal Shops
5936 Dragon Drive
New Palestine, Indiana
Site Demolition Plan

REVISION	Job No.	Date Stamped
	26017	08/04/2026
	Drawn By	Checked By
	caw	tab
	Scale:	1"=20'
	CAD FILE:	G:\26017\c100 site demolition plan.dwg
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	SHEET TITLE:	
	C100	



- GENERAL NOTES:**
1. ALL LAYOUT DIMENSIONS SHALL BE TAKEN FROM THE NEW BUILDING AND SHALL BE PARALLEL WITH THE PROPERTY LINES.
 2. ALL DISTURBED AREAS (CONCRETE, ASPHALT PAVEMENT, DIRT, AND GRAVEL) SHALL BE PATCHED BACK TO THEIR ORIGINAL CONDITION WITH "LIKE" CONSTRUCTION.
 3. GENERAL CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION.
 4. ALL CONCRETE SIDEWALKS SHALL HAVE TOOLED SMOOTH EXPANSION JOINTS AT 6.0' C-C. (MAXIMUM)

CURBING LAYOUT SYMBOL INFORMATION:

a

SYMBOL INDICATES:
6"tall CONCRETE CURB AND GUTTER
PER GENERAL SITEWORK DETAILS
(TOTAL LENGTH: 60.0 l.f.)

b

SYMBOL INDICATES:
6"tall CONCRETE CURB AND GUTTER
WITH REVERSE SLOPE
PER GENERAL SITEWORK DETAILS
(TOTAL LENGTH: 320.0 l.f.)

c

SYMBOL INDICATES:
4"tall CONCRETE CURB AND GUTTER
WITH REVERSE SLOPE
PER GENERAL SITEWORK DETAILS
(TOTAL LENGTH: 95.0 l.f.)

PAVEMENT INFORMATION:

HATCH INDICATES:
HEAVY DUTY ASPHALT PAVEMENT OF
1 1/2" HOT ASPHALT SURFACE OVER
3 1/2" BITUMINOUS BASE ON
8" COMPACTED No.53 STONE
TOTAL AREA: 2,600.0 sq.ft.
(SEE SITEWORK DETAILS)

HATCH INDICATES:
TYPICAL ASPHALT PAVEMENT OF
1 1/2" HOT ASPHALT SURFACE OVER
2" BITUMINOUS BASE ON
6" COMPACTED No.53 STONE
TOTAL AREA: 2,600.0 sq.ft.
(SEE SITEWORK DETAILS)

HATCH INDICATES:
7" CONCRETE SLAB WITH
6-6-6 W.W.F. OVER
6" COMPACTED GRANULAR FILL
TOTAL AREA: 880.0 sq.ft.
(SEE SITEWORK DETAILS)

HATCH INDICATES:
4" CONCRETE SIDEWALK WITH
6-6-6 W.W.F. OVER
4" COMPACTED GRANULAR FILL
TOTAL AREA: 700.0 sq.ft.
(SEE SITEWORK DETAILS)

LAYOUT SYMBOL INFORMATION:

1

ALL HANDICAP RAMPS SHALL BE
4" CONCRETE AND SHALL INCLUDE
AT THE BOTTOM OF RAMP:
TRUNCATED DOME SYSTEM BY
ARMOR-TILE TACTILE SYSTEM
TRIDEN/WHITE CAP CONSTRUCTION SUPPLY
4510 INDUSTRIAL ROAD
FORT WAYNE, INDIANA 46825
PH: (800) 553-7173

2

RELOCATED METAL 'VAN' HANDICAP
PARKING SIGN

3

CONCRETE HANDICAP RAMPS
(SEE SITEWORK DETAILS)

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

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REVISION

Job No.	Date Stamped
26017	09/04/2026

Drawn By: caw
Checked By: tab
Scale: 1"=20'

CAD FILE: G:\26017\c200 site layout plan.dwg

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SHEET TITLE:

C200

Addition to:
New Pal Shops
5936 Dragon Drive
New Palestine, Indiana

Site Layout Plan

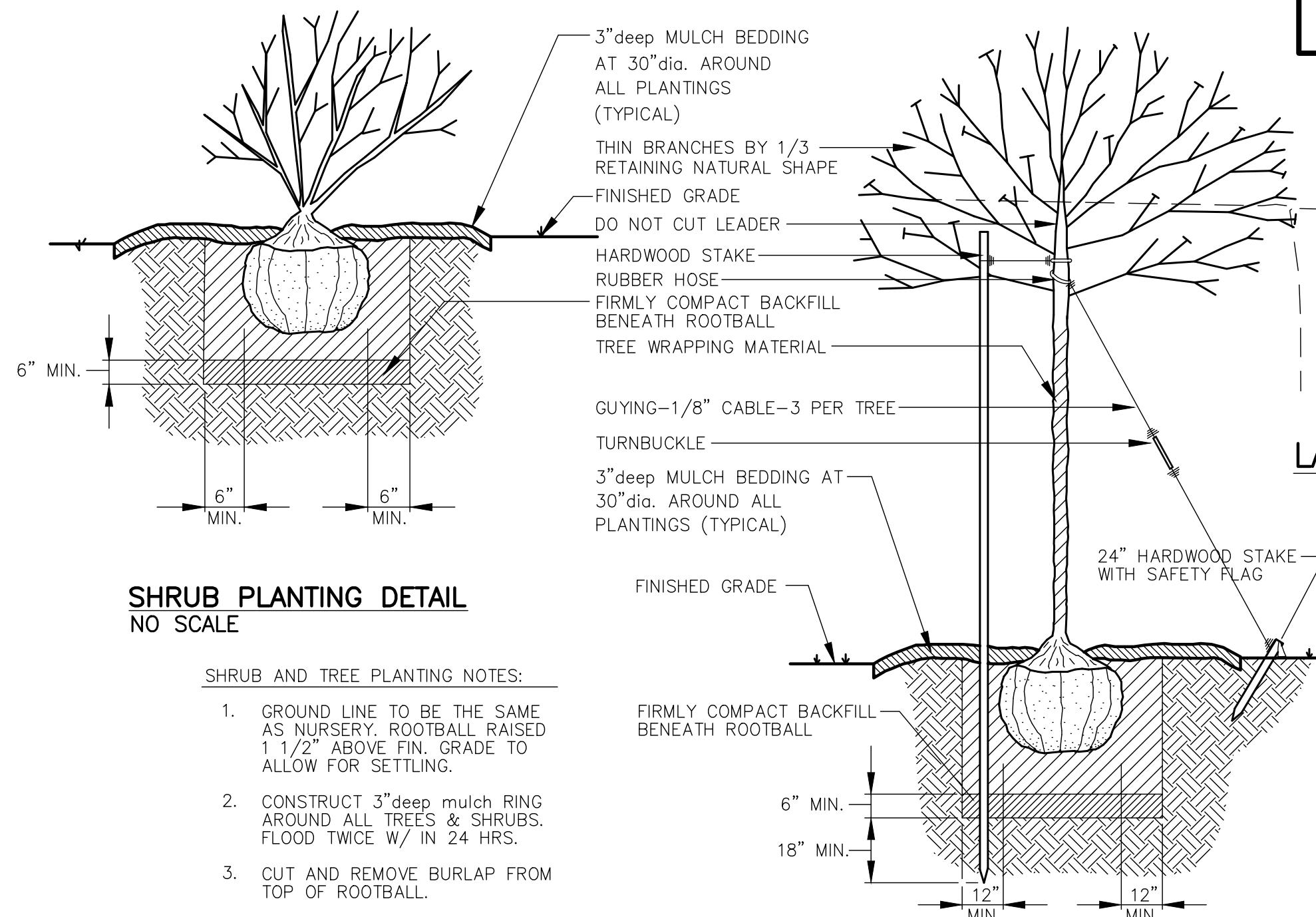
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BAXTER ENGINEERING LLC

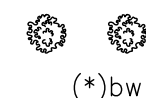
Indiana 811

1. ALL PLANT MATERIALS SHALL CONFORM TO THE STANDARDS SET FORTH IN THE CURRENT EDITION OF THE AMERICAN STANDARDS NURSERY STOCK OF NURSERYMEN. PLANTS SHALL BE TYPICAL OF SPECIES AND VARIETY, AND HAVE NORMAL, WELL-DEVELOPED BRANCHING STRUCTURE AND VIGOROUS FIBROUS ROOT SYSTEM.
2. PLANTS SHALL BE HEALTHY, VIGOROUS PLANTS FREE FROM INSECTS AND DISEASE. TRUNK AND STEMS SHALL BE FIRM WITH NO INDICATION OF FUNGUS CANKERS OR GALLS, INSECT BORERS, DIEBACK, FRONT CRACKS, OR OTHER DEFECTS.
3. ALL PLANTS SHALL BE COMMERCIALY GROWN AND NO PLANTS FROM THE WILD SHALL BE ACCEPTABLE WITHOUT SPECIFIC APPROVAL FROM THE DIVISION OF BUILDING INSPECTION.
4. TREES SHALL NOT BE ACCEPTABLE IF THEIR CENTRAL LEADER HAS BEEN CUT OR IS DAMAGED SO THAT CUTTING IS NECESSARY.
5. PLANTS SHALL NOT BE PRUNED PRIOR TO INSTALLATION. ANY NECESSARY PRUNING SHALL BE DONE IMMEDIATELY AFTER THE TIME OF INSTALLATION.
6. PLANT HEIGHT SHALL BE MEASURED BEFORE PRUNING WITH BRANCHES IN A NORMAL POSITION. NO PLANT SHALL BE PRUNED BACK TO SUCH AN EXTENT THAT IF NO LONGER MEETS THE REQUIRED SIZE SPECIFICATIONS.
7. ALL DECIDUOUS AND EVERGREEN TREES SHALL BE BALLED AND BURLAPPED. NO BARE ROOT TREES SHALL BE ACCEPTABLE.
8. THE MINIMUM SIZE OF BALLS, BALL DEPTHS, AND BALL DIAMETERS SHALL BE IN ACCORDANCE WITH RECOMMENDED BALLING AND BURLAPPING SPECIFICATIONS AS SET FORTH IN THE CURRENT EDITION OF THE AMERICAN STANDARDS OF NURSERY STOCK.
9. ALL BALLED AND BURLAPPED PLANTS WHICH CANNOT BE PLANTED IMMEDIATELY SHALL BE SEALED IN AND PROTECTED WITH BURLAP OR OTHER ACCEPTED MATERIAL.
10. IDEAL TREES SELECTED FOR THIS PROJECT HAVE A STRAIGHT TRUNK, ROUNDED OR OVAL FORM, AND SYMMETRICAL BRANCHING PATTERN.
11. ALL TREES AND SHRUBS SHOWN ON THIS DRAWING SHALL BE PLACED IN A MANNER TO ALLOW FOR AMPLE ROOM TO DEVELOP.
12. IF WORK IS REQUIRED WITHIN THE EASEMENTS CAUSING REMOVAL OR DAMAGE OF LANDSCAPE MATERIALS, THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR REPLACEMENT OF MATERIALS ACCORDING TO THE APPROVED LANDSCAPE PLAN.
13. ALL LANDSCAPED AREAS SHALL BE NON-COMPACTED SOIL TO A MINIMUM DEPTH OF 24" UNLESS OTHERWISE NOTED.

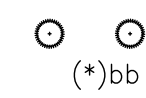
HATCH INDICATES:
AREAS OF LAND TO BE RE-SEEDING PER
SPECIFICATION ON THE EROSION
CONTROL DETAILS SHEET No.C510



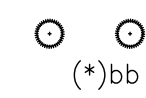
DECIDUOUS ORNAMENTAL TREE
BOTANICAL NAME: PYRUS CALLERYANA "FRONZAM"
COMMON NAME: FRONZAM PEAR
CALIPER: 2" (single stem)
QUANTITY: 01
5.0'dia. 'L' ROCK STONE BEDDING



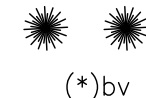
DECIDUOUS ORNAMENTAL TREE
BOTANICAL NAME: ALNUS GLUTINOSA
COMMON NAME: FASTIGIATE ALDER
CALIPER: 2" (single stem)
QUANTITY: 05
5.0'dia. 'L' ROCK STONE BEDDING



EVERGREEN SHRUBS:
BOTANICAL NAME: BUXUS SEMPERVIRENS
COMMON NAME: BOXWOOD
HEIGHT AT PLANTING: 20" (MIN)
QUANTITY: 26
(MATURE HT.= 31"tall)



DECIDUOUS SHRUBS: /
BOTANICAL NAME: EUONYMUS ALATUS "COMPACTUS"
COMMON NAME: BURNING BUSH
HEIGHT AT PLANTING: 20" (MIN)
QUANTITY: 06
(MATURE HT. = 48" tall)

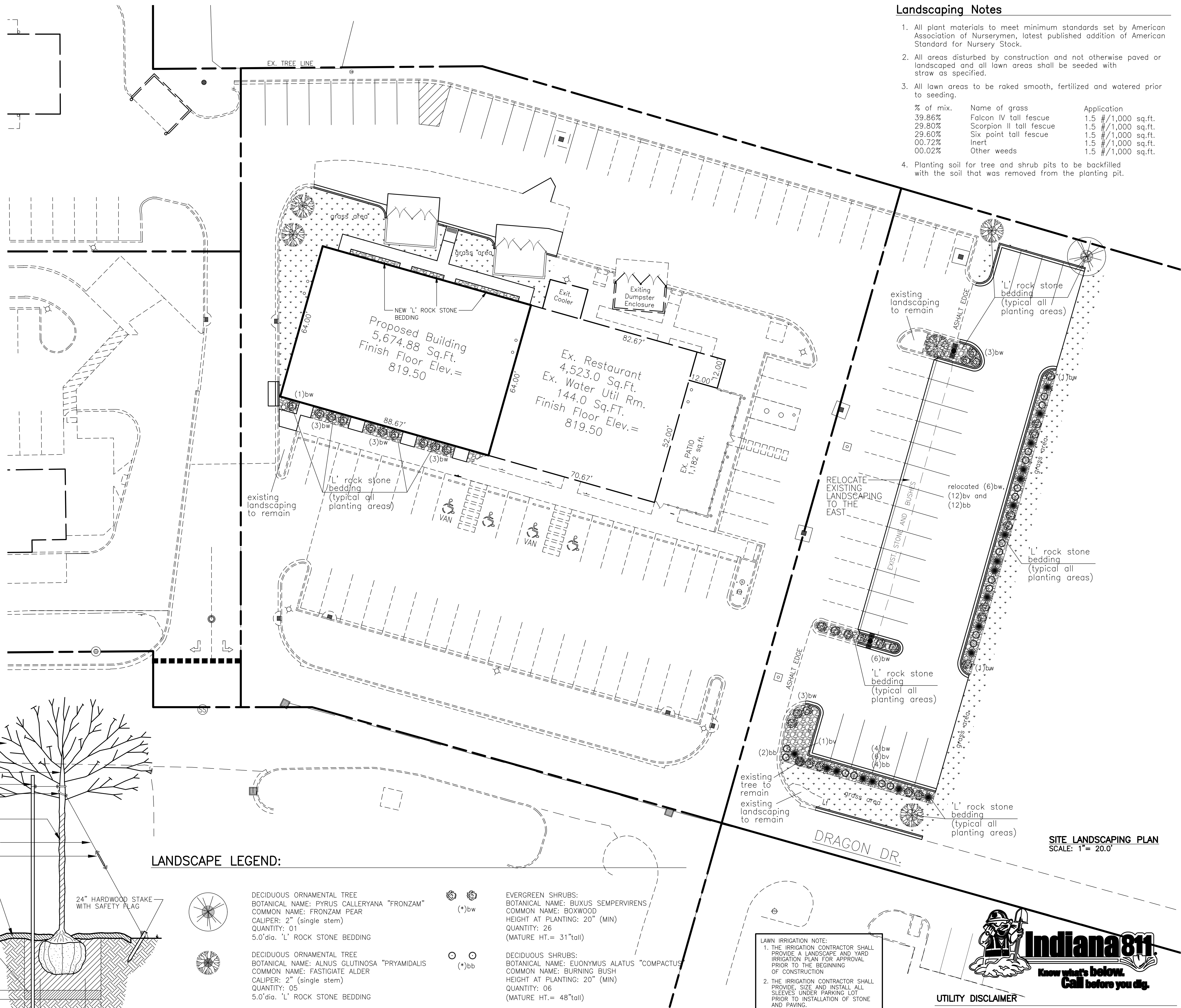


DECIDUOUS SHRUB:
BOTANICAL NAME: VIBURNUM X BURKWOODII
COMMON NAME: BURKWOOD VIBURNUM
HEIGHT AT PLANTING: 20" (MIN)
QUANTITY: 06
(MATURE HT.= 6'-0"to 8'-0"tall)

1. All plant materials to meet minimum standards set by American Association of Nurserymen, latest published addition of American Standard for Nursery Stock.
2. All areas disturbed by construction and not otherwise paved or landscaped and all lawn areas shall be seeded with straw as specified.
3. All lawn areas to be raked smooth, fertilized and watered prior to seeding.

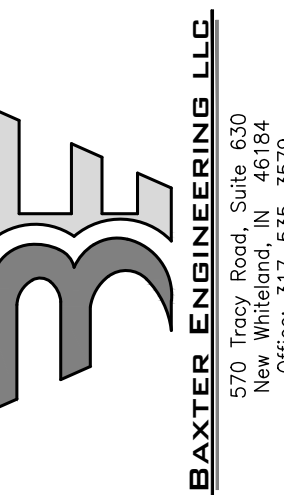
% of mix.	Name of grass	Application
39.86%	Falcon IV tall fescue	1.5 #/1,000 sq.ft.
29.80%	Scorpion II tall fescue	1.5 #/1,000 sq.ft.
29.60%	Six point tall fescue	1.5 #/1,000 sq.ft.
00.72%	Inert	1.5 #/1,000 sq.ft.
00.02%	Other weeds	1.5 #/1,000 sq.ft.

4. Planting soil for tree and shrub pits to be backfilled with the soil that was removed from the planting pit.



NOTE:
ALL DISTURBED AREAS (OVER THIS ENTIRE
PROJECT DEVELOPMENT) SHALL BE FINISH
GRADED AND SEEDED PER EROSION CONTROL
PLANS PRIOR TO COMPLETION.

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Addition to:
New Pal Shops
5936 Dragon Drive
New Palestine, Indiana

Site Landscaping Plan

[illegible]

Job No.	Date Stamped
26017	09/04/2026
Drawn By	Checked By Scale:
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	EXISTING WATER SERVICE LINES
	EXISTING SANITARY SEWER SERVICE LINES
	EXISTING STORM SEWER SERVICE LINES
	EXISTING STORM SEWER INLETS
	EXISTING GAS SERVICE LINES
	EXISTING ELECTRICAL SERVICE LINES
	EXISTING COMMUNICATION SERVICE LINES
	EXISTING CABLE SERVICE LINES
	PROPOSED WATER SERVICE LINES
	PROPOSED SANITARY SEWER SERVICE LINES
	SCREW TOP SANITARY SEWER CLEANOUTS
	type 1 PVC SCREW CAP LIDS (PER SITEWORK DETAILS)
	type 2 PVC SCREW CAP LIDS (PER SITEWORK DETAILS)
	PROPOSED STORM SEWER LINES
	PROPOSED GAS SERVICE LINES
	PROPOSED GAS METERS
	EXISTING ELECTRICAL SERVICE LINES
	PROPOSED ELECTRICAL METERS
	PROPOSED COMMUNICATION SERVICE LINES

1. ALL WATER LINES INCLUDED IN THIS PROJECT SHALL BE PRIVATELY OWNED AND MAINTAINED.
2. ALL NEWLY INSTALLED WATER LINES SHALL MEET OR EXCEED THE CITY STANDARDS FOR PUBLIC UTILITIES AND SHALL BE TESTED PER THE TOWN OF NEW PALESTINE TESTING SPECIFICATIONS.
3. ALL NEWLY INSTALLED WATER METERS SHALL BE OBTAINED FROM THE LOCAL WATER COMPANY.
4. ALL WATER SERVICE PIPING SHALL HAVE WARNING TAPE AND (3) STRANDS OF 10ga. (INSULATED) COPPER LOCATOR WIRE (typical)

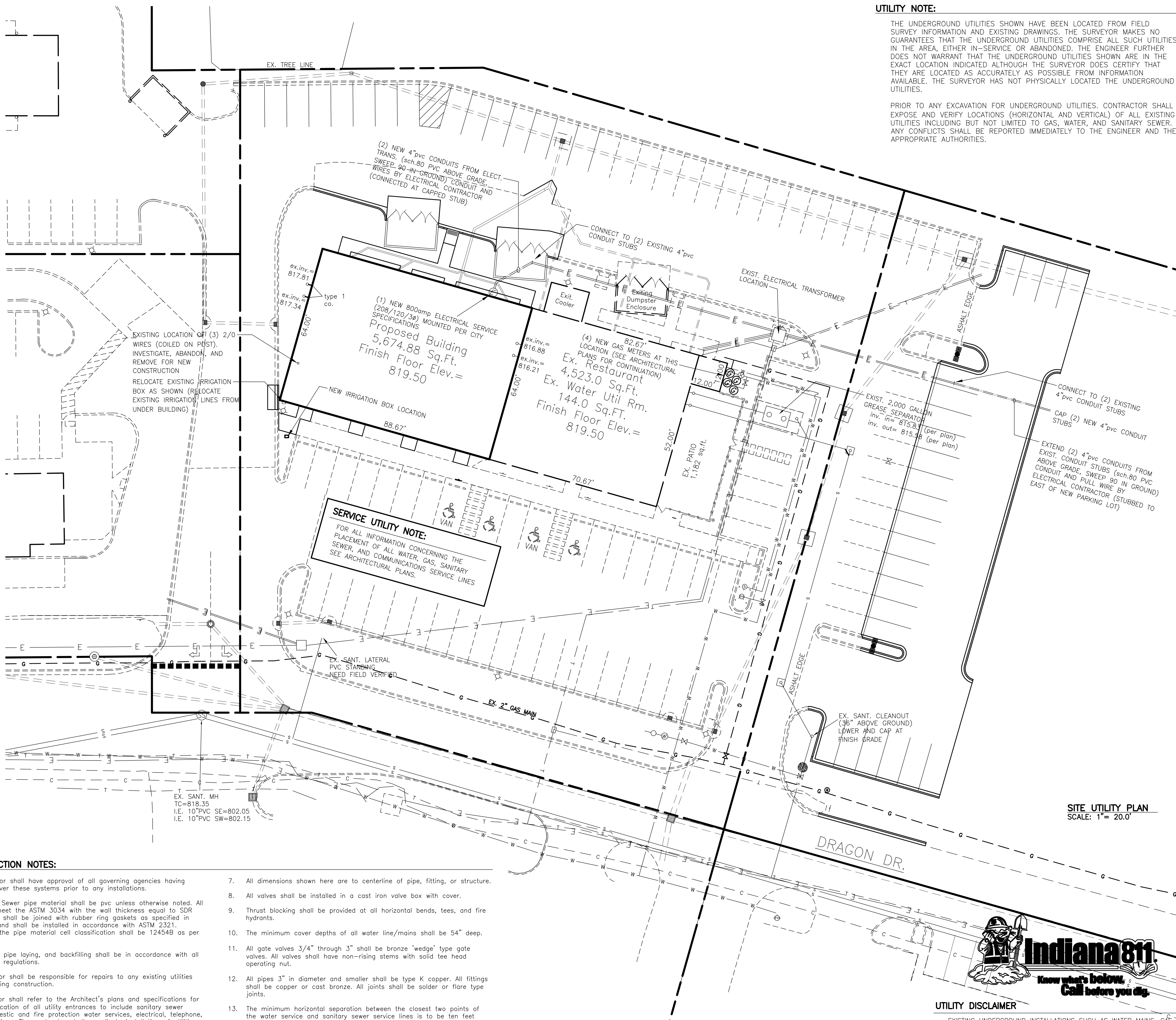
1. ALL SANITARY SEWERS INCLUDED IN THIS PROJECT SHALL BE PRIVATELY OWNED AND MAINTAINED.
2. ALL NEWLY INSTALLED SANITARY SEWERS SHALL MEET OR EXCEED THE CITY STANDARDS FOR PUBLIC SEWERS AND SHALL BE TESTED PER THE TOWN OF NEW PALESTINE TESTING SPECIFICATIONS.
3. ALL SANITARY SEWER LATERAL PIPING SHALL HAVE WARNING TAPE AND (3) STRANDS OF 10ga. (INSULATED) COPPER LOCATOR WIRE (typical)

TOP OF ALL ELECTRICAL SERVICE CONDUITS SHALL
BE INSTALLED AT A MINIMUM OF 36" BELOW
FINISH GRADE.

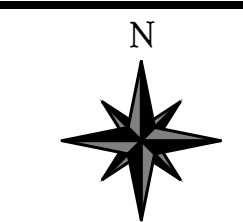
1. Site Contractor shall have approval of all governing agencies having jurisdiction over these systems prior to any installations.
2. The Sanitary Sewer pipe material shall be pvc unless otherwise noted. All pipe shall meet the ASTM 3034 with the wall thickness equal to SDR 35. The pipe shall be joined with rubber ring gaskets as specified in ASTM 3034 and shall be installed in accordance with ASTM 2321. Furthermore the pipe material cell classification shall be 12454B as per ASTM 1784.
3. All trenching, pipe laying, and backfilling shall be in accordance with all federal OSHA regulations.
4. Site contractor shall be responsible for repairs to any existing utilities damaged during construction.
5. The contractor shall refer to the Architect's plans and specifications for the actual location of all utility entrances to include sanitary sewer, laterals, domestic and fire protection water services, electrical, telephone, and gas services. The contractor shall coordinate installation of utilities in such a manner as to avoid conflicts and assure proper depths are achieved as well as coordinating with the regulatory agency as to the location and scheduling of all tie-ins/connections to said services.
6. All vertical bends on the proposed water mains shall be restrained with a mechanical joint fittings supplied with retainer glands. Any joints 25 feet or less from either side of the vertical bends shall be restrained with a retainer gland.
7. All dimensions shown here are to centerline of pipe, fitting, or structure.
8. All valves shall be installed in a cast iron valve box with cover.
9. Thrust blocking shall be provided at all horizontal bends, tees, and fire hydrants.
10. The minimum cover depths of all water line/mains shall be 54" deep.
11. All gate valves 3/4" through 3" shall be bronze 'wedge' type gate valves. All valves shall have non-rising stems with solid tee head operating nut.
12. All pipes 3" in diameter and smaller shall be type K copper. All fittings shall be copper or cast bronze. All joints shall be solder or flare type joints.
13. The minimum horizontal separation between the closest two points of the water service and sanitary sewer service lines is to be ten feet (10'). The minimum vertical separation between the closest two points of the water service and sanitary sewer service lines is twenty-four inches (24").
14. All water mains shall be hydrostatically tested and disinfected before acceptance, as per AWWA standard specifications.

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE ENGINEER FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. ALTHOUGH THE SURVEYOR HAS CERTAIN THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE, THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

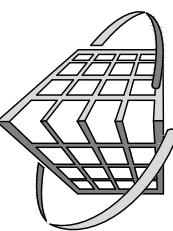
PRIOR TO ANY EXCAVATION FOR UNDERGROUND UTILITIES, CONTRACTOR SHALL EXPOSE AND VERIFY LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL EXISTING UTILITIES INCLUDING BUT NOT LIMITED TO GAS, WATER, AND SANITARY SEWER. ANY CONFLICTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND THE APPROPRIATE AUTHORITIES.



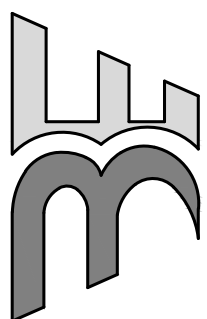
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CERTIFIED BY:



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Office: 317-535-3579
Cell: 317-509-4142
BaxterEngineeringllc@gmail.com

Addition to:
New Pal Shops
5936 Dragon Drive
New Palestine, Indiana

Site Utility Plan

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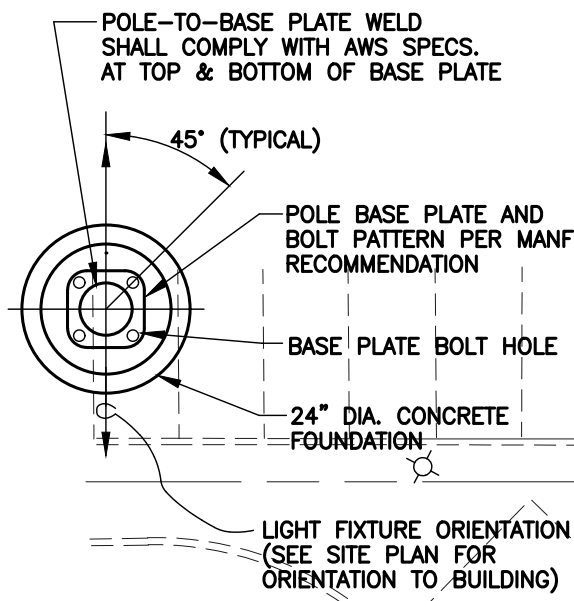
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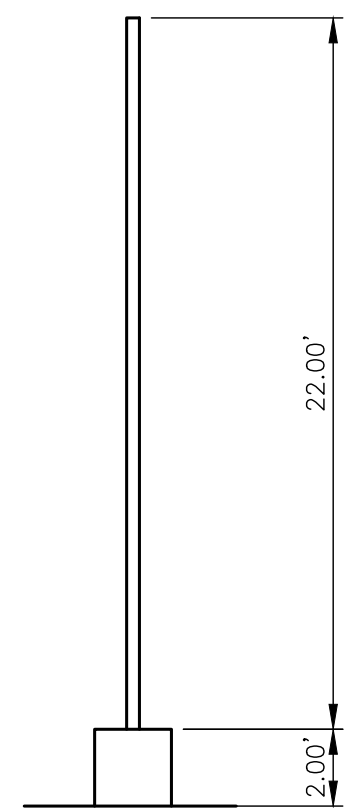
SHEET TITLE:

C300

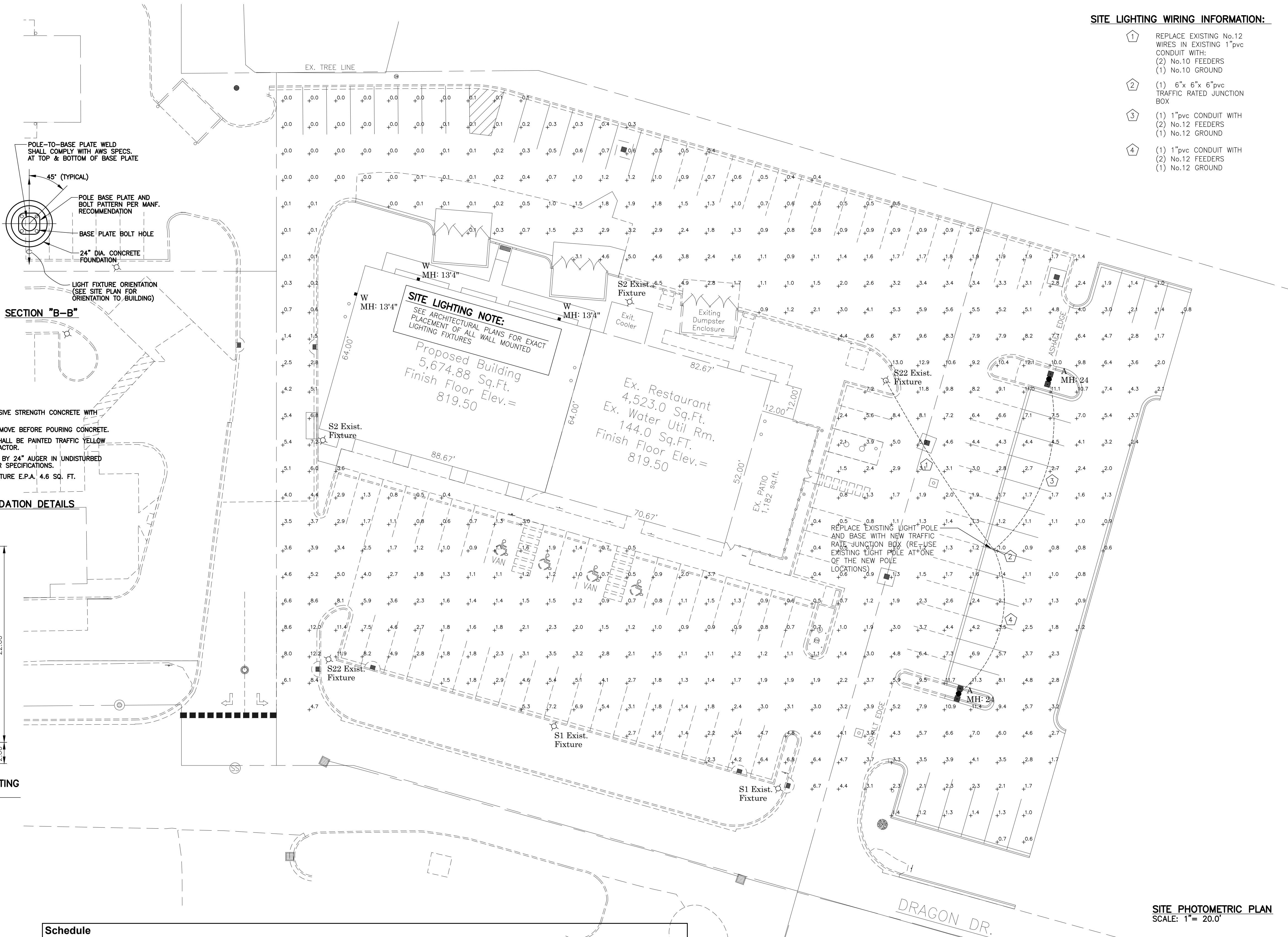


1. 3500 P.S.I. MIN. 28 DAY COMPRESSIVE STRENGTH CONCRETE WITH GRADE 60 REIN. STEEL..
2. IF WATER IS PRESENT IN HOLE, REMOVE BEFORE POURING CONCRETE.
3. EXPOSED CONCRETE AND GROUT SHALL BE PAINTED TRAFFIC YELLOW BY THE PAVEMENT STRIPING CONTRACTOR.
4. FOUNDATION EXCAVATION SHALL BE BY 24" AUGER IN UNDISTURBED OR PROPERLY COMPACTED FILL PER SPECIFICATIONS.
5. DETAIL FOR 20' POLE W/ MAX. FIXTURE E.P.A. 4.6 SQ. FT.

NO SCALE



TYPICAL SITE LIGHTING POLE ELEVATION



SITE PHOTOMETRIC PLAN
SCALE: 1" = 20.0'

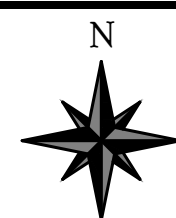
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1 REPLACE EXISTING No.12 WIRES IN EXISTING 1"pvc CONDUIT WITH:
(2) No.10 FEEDERS
(1) No.10 GROUND

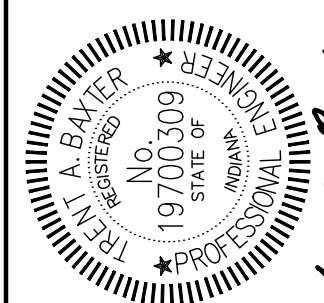
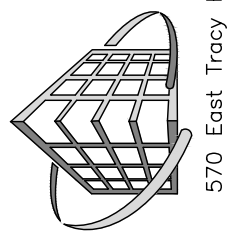
2 6"x 6"x 6"pvc (TRAFFIC RATED JUNCTION BOX

3 (1) 1"pvc CONDUIT WITH
(2) No.12 FEEDERS
(1) No.12 GROUND

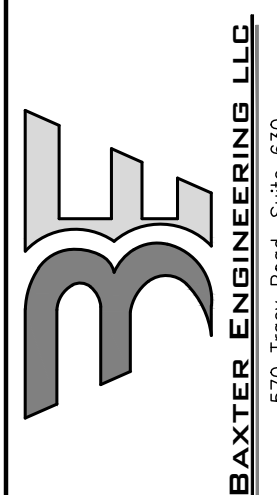
4 (1) 1"pvc CONDUIT WITH
(2) No.12 FEEDERS
(1) No.12 GROUND



VERSATILE
CONSTRUCTION GROUP, LLC
Road • Suite 610 • New Whiteland • Indiana
3579 • email:info@versatile-llc.com
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Trent A. Baxter
CERTIFIED BY:



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Addition to:
New Pal Shops
5936 Dragon Drive
New Palestine, Indiana

Site Photometric Plan

[illegible]

Job No.	Date Stamped
26017	09/04/2026

Drawn By caw	Checked By tab	Scale: 1"=20'
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C310



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EXISTING UNDERGROUND INSTALLATIONS SUCH AS WATER MAINS, GAS MAINS, SEWERS, TELEPHONE LINES, AND BURIED STRUCTURES IN THE VICINITY OF THE WORK TO BE DONE HEREUNDER ARE INDICATED ON THE DRAWINGS ONLY TO THE EXTENT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO OR DISCOVERED BY THE SURVEYOR IN PREPARING THIS DRAWING. THERE IS NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF SUCH INFORMATION, AND ALL RESPONSIBILITY FOR ACCURACY AND COMPLETENESS THEREOF IS EXPRESSLY DISCLAIMED.

BENCHMARKS:

BENCHMARK:
NGS BENCHMARK J 238 USGS QUAD. ACTON

DESCRIBED BY COAST AND GEODETIC SURVEY 1947
4.8 MI S FROM CUMBERLAND.
ABOUT 0.2 MILE EAST ALONG U.S. HIGHWAY 40 FROM THE POST OFFICE
AT CUMBERLAND, THENCE 4.55 MILES SOUTH ALONG THE COUNTY LINE
ROAD, 0.3 MILE SOUTH OF A SIDE ROAD LEADING EAST, 180 FEET OF THE
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LINE OF THE COUNTY LINE ROAD, 4.5 FEET NORTH OF A POWER POLE, 15
FEET SOUTH OF A 28-INCH IRONWOOD TREE, 1 FOOT WEST OF A FENCE
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HANCOCK-SHELBY AND MARION COUNTY LINE FOR ABOUT 4.8 MILES.
NAVD "88" = 811.24

TBM #1

ENGRAVED X ON EAST SIDE OF CONCRETE BASE OF EXISTING LIGHT POLE
LOCATED NEAR THE SOUTHWEST CORNER OF THE NEW BUILDING ADDITION.
ELEVATION:= 821.20

FLOOD NOTE:

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AND "X" AS SAID PER THE INDIANA FLOOD PLAIN PORTAL WEBSITE.
THE ACCURACY OF THIS FLOOD HAZARD STATEMENT IS SUBJECT TO
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LOCATION OR ELEVATION ON THE REFERENCED FLOOD INSURANCE
RATE MAP.
BASE FLOOD ELEVATION: 816.70

EROSION CONTROL INFORMATION:

SEE SITE EROSION CONTROL PLAN FOR LOCATIONS AND
INSTALLATION OF ALL EROSION CONTROL MEASURES
REQUIRED ON THIS SITE.

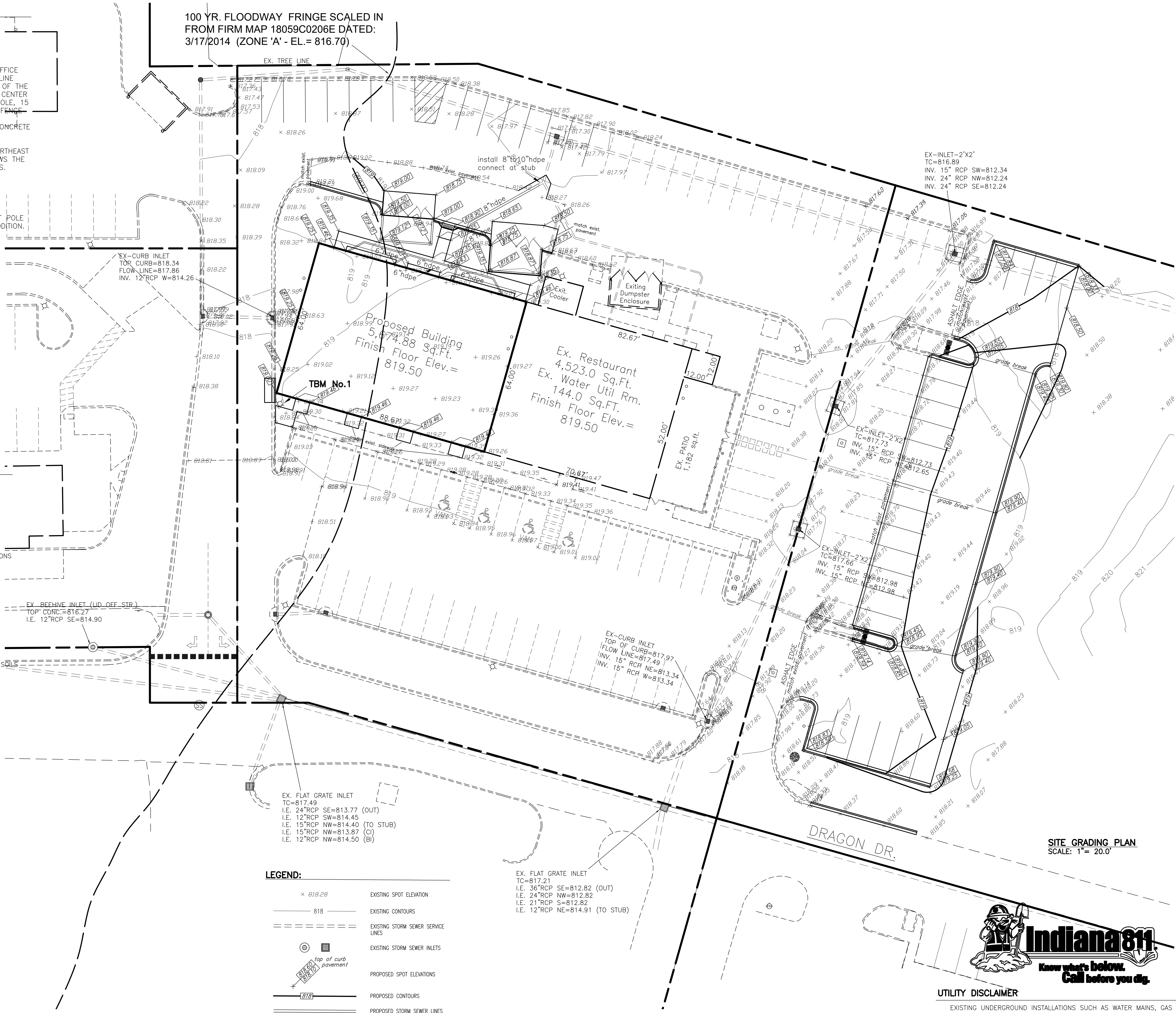
STORM SEWER NOTES:

1. ALL EXISTING STORM SEWERS INCLUDED IN THIS
PROJECT ARE PRIVATELY OWNED AND MAINTAINED.
2. ALL NEWLY INSTALLED STORM SEWERS LINES SHALL
MEET OR EXCEED THE CITY STANDARDS FOR
PUBLIC SEWERS AND SHALL BE TESTED PER THE
TOWN OF NEW PALESTINE TESTING SPECIFICATIONS.

STORM DRAINAGE AND GRADING NOTES

1. ALL NECESSARY PERMITS AND APPROVALS FROM AGENCIES GOVERNING
THIS WORK SHALL BE SECURED PRIOR TO BEGINNING CONSTRUCTION.
2. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL PROPERTY
CORNERS AND REPLACE ALL PINS ELIMINATED OR DAMAGED DURING
CONSTRUCTION.
3. ALL PIPES ENTERING STORM SEWER STRUCTURES SHALL BE GROUTED TO
ASSURE CONNECTION AT STRUCTURE IS WATER TIGHT.
4. DIMENSIONS SHOWN ARE TO CENTERLINE OF PIPE OF CENTERLINE OF
STURCTURE.
5. GRADES SHOWN ARE FINISHED GRADES. FOR BUILDING SUBGRADE ELEVATIONS
REFER TO ARCHITECTURAL PLANS.
6. ALL DIMENSIONS OR COORDINATES SHOWN TO BUILDING ARE TO OUTSIDE
7. EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY.
THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LINE
LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY DEVIATIONS FROM THE
DESIGN LOCATIONS SHALL BE REPORTED TO THE OWNER OR ENGINEER
8. THE SITE WORK CONTRACTOR SHALL COORDINATE THE INSTALLATION OF
ALL UNDERGROUND UTILITIES WITH THIS WORK. ALL UNDERGROUND
UTILITIES (WATER, SANITARY SEWER, STORM SEWER, ELECTRICAL
CONDUIT, IRRIGATION SLEEVES, AND ANY OTHER MISCELLANEOUS)
SHALL BE IN-PLACE PRIOR TO THE PLACEMENT OF BASE COURSE
9. ALL FILL AREAS TO BE COMPACTED CLAY ROLLED IN WITH A SHEEPS
FOOT ROLLER IN 8" LIFTS AND COMPACTED TO 95% STANDARD PROCTOR.
VERIFICATION OF THE COMPACTION SHALL BE DONE BY AN INDEPENDENT SOILS
TESTING COMPANY AND ALL TEST RESULTS SUBMITTED TO THE ENGINEER.

100 YR. FLOODWAY FRINGE SCALED IN
FROM FIRM MAP 18059C0206E DATED:
3/17/2014 (ZONE 'A' - EL.= 816.70)

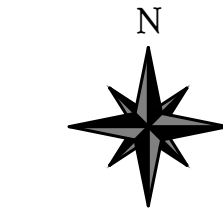


SITE GRADING PLAN
SCALE: 1"= 20.0'

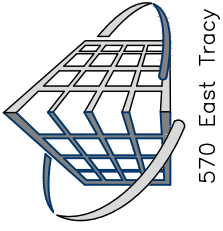


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VERSATILE
CONSTRUCTION GROUP, LLC
570 East Tracy Road • Suite 610 • New Whiteland • Indiana
Ph: 317-532-1100
www.versatileconstruction-llc.com



DAVID A. BAXTER
PROFESSIONAL ENGINEER
No. 9700309
STATE OF INDIANA
EXPIRATION DATE: 12/31/2024

BAXTER ENGINEERING LLC
570 Tracy Road, Suite 630
New Whiteland, IN 46184
Phone: 317-532-1100
Fax: 317-532-1142
BaxterEngineeringllc@gmail.com

Addition to:
New Pal Shops
5936 Dragon Drive
New Palestine, Indiana

Site Grading Plan

REVISION

Job No. 26017	Date Stamped 09/04/2026	
Drawn By caw	Checked By tab	Scale: 1"=2'

CAD FILE:
G:\26017\c400 site grading plan.dwg
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SHEET TITLE:

C400

BENCHMARKS:

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NGS BENCHMARK J 238 USGS QUAD. ACTON

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BASE FLOOD ELEVATION: 816.70

EROSION CONTROL INFORMATION:

SEE SITE EROSION CONTROL PLAN FOR LOCATIONS AND
INSTALLATION OF ALL EROSION CONTROL MEASURES
REQUIRED ON THIS SITE.

NOTE:

NO EARTH DISTURBING ACTIVITY MAY
COMMENCE WITHOUT AN APPROVED
STORM WATER PERMIT.

SEEDING INFO:

- ALL DISTURBED AREAS SHALL BE
PERMANENTLY SEEDED PER EROSION
CONTROL DETAILS.
(AT NO POINT DURING CONSTRUCTION
SHALL ANY PART OF THE SITE REMAIN
UNDISTURBED FOR MORE THAN TWO
MONTHS THEREFORE NO TEMPORARY
SEEDING SHALL BE REQUIRED)

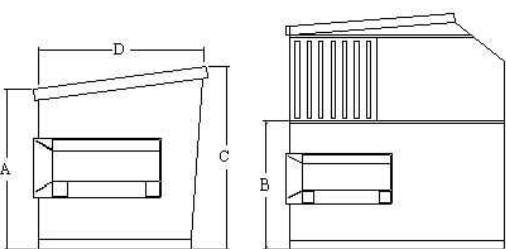
Standard Features

Heavy duty 7 GA. fork sleeves	Debris shedding fork sleeve top gussets
7 GA. fork entry guides	7 GA. fork sleeve backup plates with integral extended bumpers
3" x 4" full length bottom reinforcements	12 GA. side walls
Rugged and light plastic lids	1-1/2" PVC drain plug
Rust resistant primer inside and out	Two coats high gloss enamel finish

Options

10 GA. side walls
7 GA. floor
Chutes: 2 rigid, 2 swivel, for two through four cubic yard containers

Dimensions



NOTE:
INTERIOR OF DUMPSTER
TO BE LINED WITH 10mil.
PLASTIC LINER.

Model	FL2	FL3	FL4	FL6-LP	FL6	FL6-SL	FL8-LP	FL8	FL8-SL	FL10	FL10-SL
Capacity cu yds	2	3	4	6	6	6	8	8	8	10	10
(A) Loading height	39	48	51	37	63	51	51	72	51	82	51
(B) Side loading height	-	-	-	-	31	-	-	44	-	45	-
(C) Interior height	41	51	60	45	64	60	59	76	72	80	80
(D) Interior depth	36	42	53	96	66	72	96	72	80	75	88
Interior width	72	72	72	72	72	72	72	72	72	72	72
Lid size (2 each)	36x41	36x47	36x58	36x58	36x58	36x58	36x58	36x58	36x58	36x58	36x58
Side door W x H	-	-	-	30x30"	30x30	-	30x30"	30x30	-	30x30	-

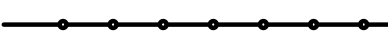
All dimensions are in inches

* Available with two side doors or two 36x47 rear lids

-LP = low profile

-SL = slant

EROSION CONTROL LEGEND:

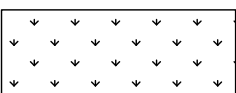


TEMPORARY SILT FENCING
(SEE EROSION CONTROL
DETAILS PAGE)



FABRIC DROP INLET EROSION
PROTECTION - "DANDY SACK"
(SEE EROSION CONTROL DETAILS
PAGE)

HATCH LEGEND:



HATCH INDICATES:
AREAS OF LAND TO BE RE-SEEDED OR
LANDSCAPED PER SPECIFICATION ON THIS
SHEET AND SHEET No.C510

LEGEND:

x 818.28

EXISTING SPOT ELEVATION

818

EXISTING CONTOURS

=====

EXISTING STORM SEWER SERVICE
LINES

⊕

EXISTING STORM SEWER INLETS

top of curb
pavement

818.2

PROPOSED SPOT ELEVATIONS

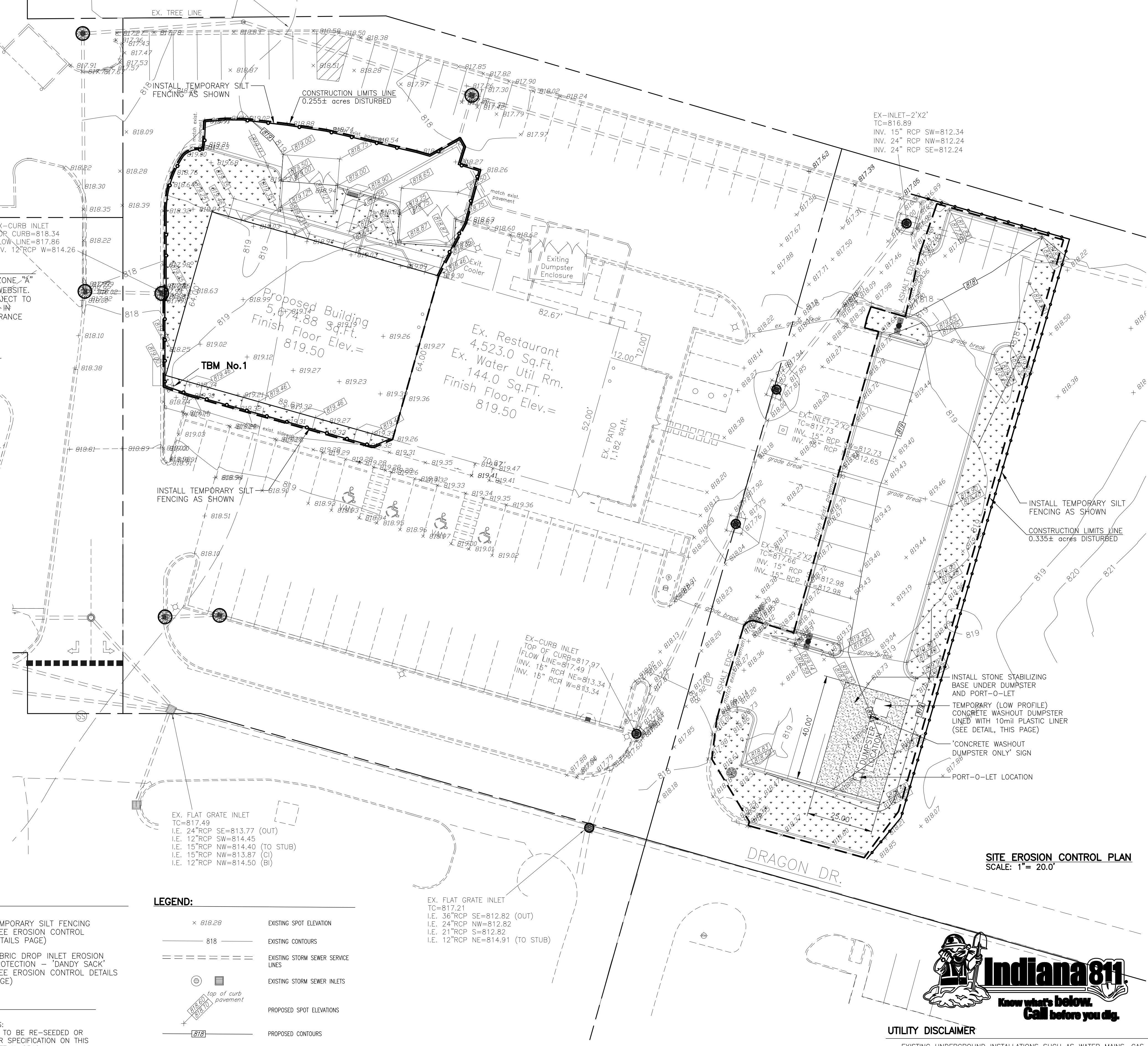
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PROPOSED CONTOURS

=====

PROPOSED STORM SEWER LINES

100 YR. FLOODWAY FRINGE SCALED IN
FROM FIRM MAP 18059C0206E DATED:
3/17/2014 (ZONE 'A' - EL.= 816.70)

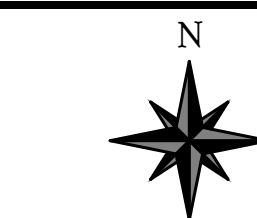


SITE EROSION CONTROL PLAN
SCALE: 1"= 20.0'

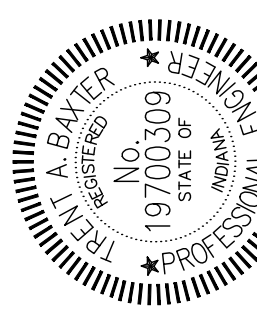
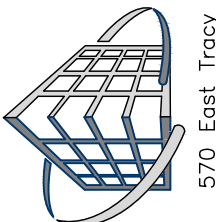


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570 East Tracy Road • Suite 610 • New Palestine, Indiana 46184
Phone: 317-592-4122
www.versatileconstruction-llc.com



CERTIFIED BY:
Andrew A. Baxter

BE
BAXTER ENGINEERING LLC
570 Tracy Road, Suite 630
New Palestine, IN 46184
Phone: 317-592-4122
BaxterEngineeringllc@gmail.com

Addition to:
New Pal Shops
5936 Dragon Drive
New Palestine, Indiana

Site Erosion Control Plan

REVISION

Job No. 26017 Date Stamped 08/04/2026

Drawn By cow Checked By Scale: 1"=20'

CAD FILE: G:\26017\c500 site erosion control plan.dwg

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SHEET TITLE:

C500

EROSION CONTROL INSTALLATION DETAILS (CONT.)

PERMANENT SEEDING (CONT.)

Table 1. Permanent Seeding Recommendations
This table provides several seed mixture options. Additional seed mixtures are available commercially. When selecting a mixture, consider intended land use and site conditions, including soil properties (e.g., soil pH and drainage), slope aspect, and the tolerance of each species to shade and drought.

Open Low-Maintenance Areas
(remaining idle more than six months)

Seed Mixtures	Rate per Acre Pure Live Seed	Optimum Soil pH
1. Perennial ryegrass - white clover ¹	70 lbs. 2 lbs.	5.6 to 7.0
2. Perennial ryegrass - tall fescue ²	70 lbs. 50 lbs.	5.6 to 7.0
3. Tall fescue ² - white clover ¹	70 lbs. 2 lbs.	5.5 to 7.5

Steep Banks and Cuts, Low-Maintenance Areas (not mowed)

Seed Mixtures	Rate per Acre Pure Live Seed	Optimum Soil pH
1. Smooth brome grass - red clover ¹	35 lbs. 20 lbs.	5.5 to 7.0
2. Tall fescue ² - white clover ¹	50 lbs. 2 lbs.	5.5 to 7.5
3. Tall fescue ² - red clover ¹	50 lbs. 20 lbs.	5.5 to 7.5
4. Orchard grass - red clover ¹ - white clover ¹	30 lbs. 20 lbs. 2 lbs.	5.6 to 7.0
5. Crownvetch ¹ - tall fescue ²	12 lbs. 30 lbs.	5.6 to 7.0

Lawns and High-Maintenance Areas

Seed Mixtures	Rate per Acre Pure Live Seed	Optimum Soil pH
1. Bluegrass	140 lbs.	5.5 to 7.0
2. Perennial ryegrass (turf type)	60 lbs. 90 lbs.	5.6 to 7.0
3. Tall fescue (turf type) ² - bluegrass	170 lbs. 30 lbs.	5.6 to 7.5

Channels and Areas of Concentrated Flow

Seed Mixtures	Rate per Acre Pure Live Seed	Optimum Soil pH
1. Perennial ryegrass - white ¹	150 lbs. 2 lbs.	5.5 to 7.0
2. Kentucky bluegrass - smooth bromegrass - switchgrass - timothy - perennial ryegrass - white clover ²	20 lbs. 10 lbs. 3 lbs. 4 lbs. 10 lbs. 2 lbs.	5.5 to 7.5
3. Tall fescue ¹ - white clover ²	150 lbs. 2 lbs.	5.5 to 7.5
4. Tall fescue ² - perennial ryegrass - Kentucky bluegrass	150 lbs. 20 lbs. 20 lbs.	5.5 to 7.5

Notes:

1. An oat or wheat companion or nurse crop may be used with any of the above permanent seeding mixtures, at the following rates:
(a) spring oats – one-fourth to three-fourths bushel per acre
(b) wheat – no more than one-half bushel per acre
2. A high potential for fertilizer, seed, and mulch to wash exists on steep banks, cuts, and in channels and areas of concentrated flow.

PERMANENT SEEDING DATES											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV
Non-irrigated(1)											
Irrigated											
Dormant(2)											

IRRIGATION NEEDED THIS PERIOD. TO CONTROL EROSION AT TIMES OTHER THAN IN THE SHADED AREA USE MULCH

(1) LATE SUMMER SEEDING DATES MAY BE EXTENDED 5 DAYS IF MULCH IS APPLIED
(2) INCREASE SEEDING APPLICATION BY 50%

MULCHING

MATERIALS

Table 1. Mulch Specifications

Material ¹	Rate per Acre	Comments
Straw or hay	2 tons	Should be dry, free of undesirable seeds. Spread by hand or machine. Must be crimped or anchored (see Table 2).
Wood fiber or cellulose	1 ton	Apply with a hydraulic mulch machine and use with tacking agent.

¹ Mulching is not recommended in concentrated flows. Consider erosion control blankets or other stabilization methods.

MULCHING (CONT.)

Table 2. Mulch Anchoring Methods

Anchoring Method ¹	How to Apply
Mulch anchoring tool or farm disk (dull, serrated, and blades set straight)	Crimp or punch the straw or hay two to four inches into the soil. Operate machinery on the contour of the slope.
Cleating with dozer tracks	Operate dozer up and down slope to prevent formation of rills by dozer cleats.
Wood hydromulch fibers	Apply according to manufacturer's recommendations.
Synthetic tackifiers, binders, or soil stabilizers	Apply according to manufacturer's recommendations.
Netting (synthetic or biodegradable material)	Install netting immediately after applying mulch. Anchor netting with staples. Edges of netting strips should overlap with each up-slope strip overlapping four to six inches over the adjacent down-slope strip. Best suited to slope applications. In most instances, installation details are site specific, so manufacturer's recommendations should be followed.

¹ All forms of mulch must be anchored to prevent displacement by wind and/or water.

APPLICATION

1. Apply mulch at the recommended rate shown in Table 1.
2. Spread the mulch material uniformly by hand, hayfork, mulch blower, or hydraulic mulch machine. After spreading, no more than 25 percent of the ground should be visible.
3. Anchor straw or hay mulch immediately after application. The mulch can be anchored using one of the methods listed below:
 - a. Crimp with a mulch anchoring tool, a weighted farm disk with dull serrated blades set straight, or track cleats of a bulldozer,
 - b. Apply hydraulic mulch with short cellulose fibers,
 - c. Apply a liquid tackifier, or
 - d. Cover with netting secured by staples.

EROSION CONTROL BLANKET

MATERIALS

1. Organic (straw, excelsior, woven paper, coconut fiber, etc.) or synthetic mulch incorporated with a polypropylene, natural fiber or similar netting material (The netting may be biodegradable, photodegradable or permanent.)
2. Six to 12-inch staples, pins, or stakes.

INSTALLATION

1. Select the type and weight of erosion control blanket to fit the site conditions (e.g., slope, channel, flow velocity) per the manufacturer's specifications.
2. Prepare the seedbed, add soil amendments, and permanently seed (see Permanent Seeding Sheet C510, C520) the area immediately following seedbed preparation.
3. Lay erosion control blankets on the seeded area so that they are in continuous contact with the soil with each up-slope or up-stream blanket overlapping the down-slope or down-stream blanket by at least eight inches, or folloe manufacturer's recommendations
4. Tuck the uppermost edge of the upper blankets into a check slot (slit trench), backfill with soil and tamp down. In certain applications, the manufacturer may require additional check slots at specific locations down slope from the uppermost edge of the upper blankets.
5. Anchor the blankets in place by driving staples, pins, or stakes through the blanket and into the underlying soil. Follow an anchoring pattern appropriate for the site conditions and as recommended by the manufacturer.

TURF REINFORCEMENT MAT

MATERIALS

1. Anchoring
Staples, pins, or stakes used to prevent movement or displacement of mat. (Follow manufacturer's recommendations for specific applications.)
2. Turf reinforcement mat (typically consists of a three-dimensional matrix of polypropylene, nylon, or other material).
3. Six to 12-inch staples, pins, or stakes.

INSTALLATION

1. Select a turf reinforcement mat appropriate for the site conditions (e.g., slope, channel, flow velocity) per the manufacturer's specifications.
2. Grade and prepare the soil foundation for mat installation.
3. Install the mat according to the manufacturer's instructions, including burying the edges in check slots or slit trenches.
4. Anchor the mat in place by driving staples, pins, or stakes through the mat and into the underlying soil. Follow an anchoring pattern appropriate for the site conditions and as recommended by the manufacturer.
5. Backfill the mat with topsoil, filling to the top of the mat.
6. Seed the area after the mat has been installed and backfilled with soil.
7. Install erosion control blankets over the seeded turf reinforcement mat to stabilize the surface.

ROCK CHECK DAM

MATERIALS

1. Geotextile fabric (8 ounce or heavier; nonwoven).
2. Indiana Department of Transportation Revetment riprap for dam.
3. INDOT CA No. 5 aggregate for use as filter medium (Aggregate must be well-graded).

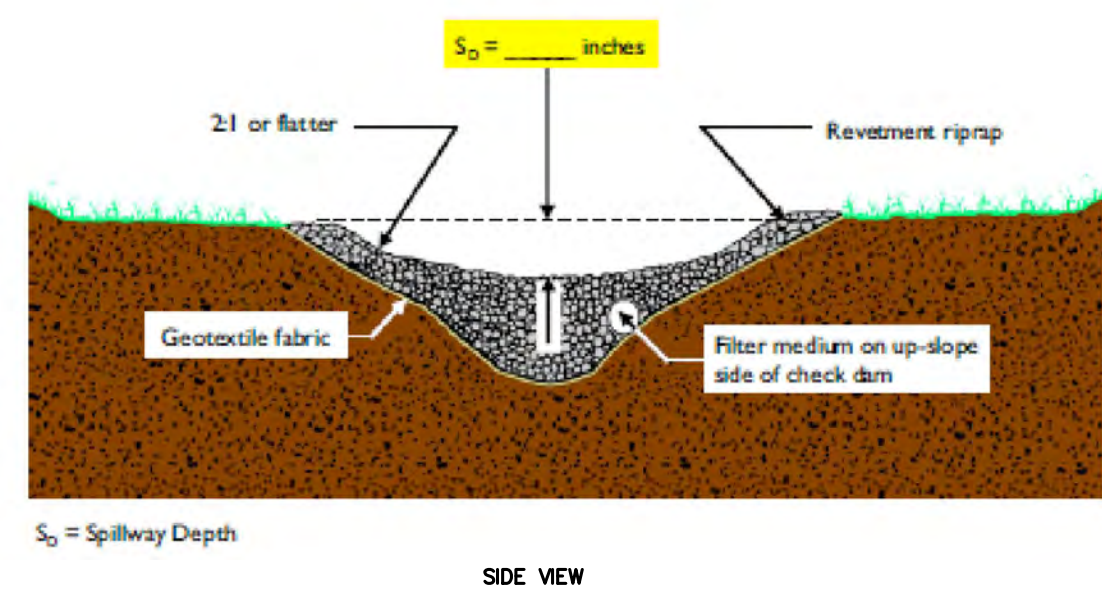
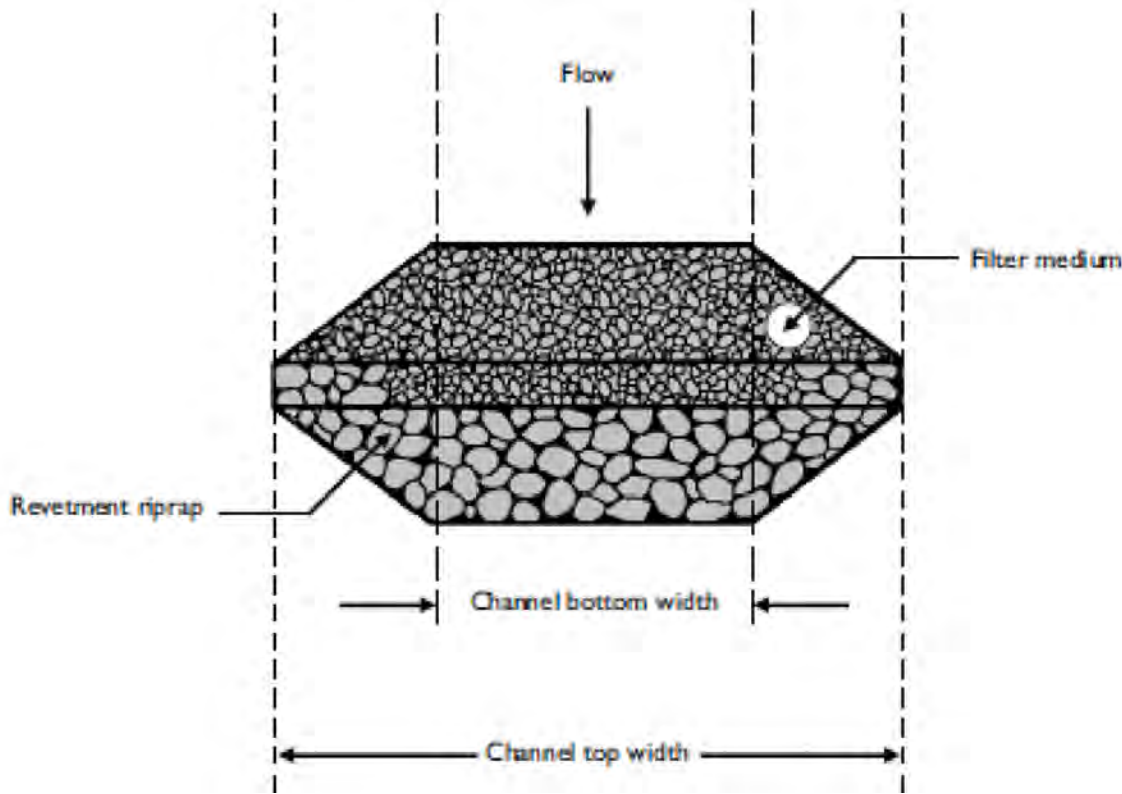
Note: INDOT CA No. 8 aggregate is acceptable if No. 5 aggregate is not available. The use of No. 8 aggregate may result in more frequent overtopping of the structure and will increase the frequency of structure maintenance.

INSTALLATION

1. Lay out the location of the check dam.
2. Excavate a cutoff trench into the channel bottom and ditch banks, extending it a minimum of 18 inches beyond the top of the ditch bank.
3. Install and anchor filter fabric in the channel and cutoff trench.
4. Place riprap in the cutoff trench and channel to the lines and dimensions shown in the construction plans. The center of each dam must be at least nine inches lower than the uppermost points of contact between the riprap dam and channel banks.
5. Extend the riprap at least 18 inches beyond the top of the channel banks to keep overflow water from eroding areas adjacent to the channel banks before it re-enters the channel.

ROCK CHECK DAM (CONT.)

6. Place filter medium (INDOT CA No. 5 aggregate) on the up-slope side of the dam. Place filter medium over the entire face of the dam up to the base of the overflow weir notch.
7. Stabilize the channel above the uppermost dam.
8. Install an erosion-resistant lining in the channel below the lowermost dam. The lining should extend a minimum distance of six feet below the dam.
9. Additional sediment storage can be provided by excavating a small sediment trap on the upstream side of the check dam.



GEOTEXTILE FABRIC DROP INLET PROTECTION

MATERIALS

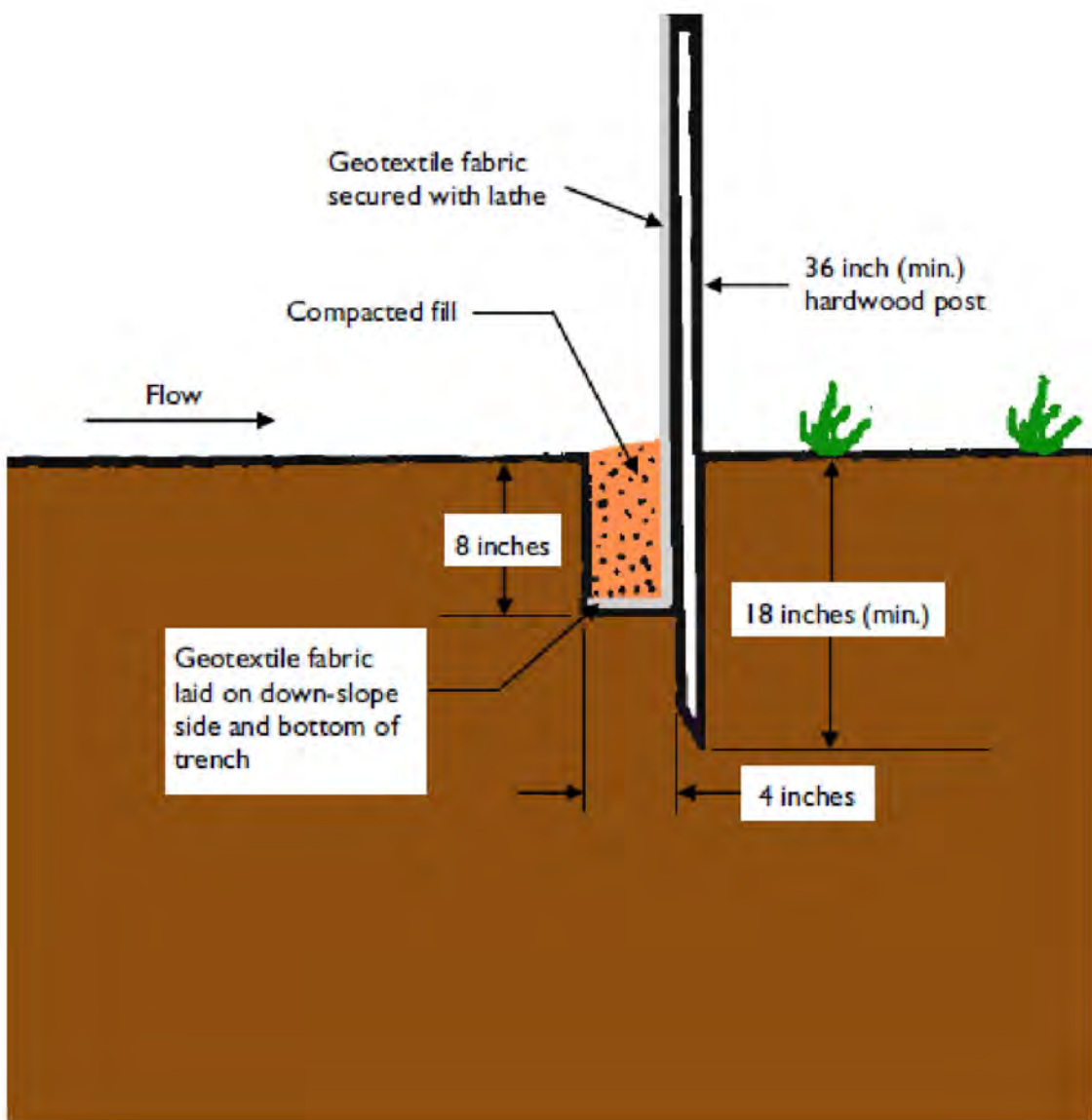
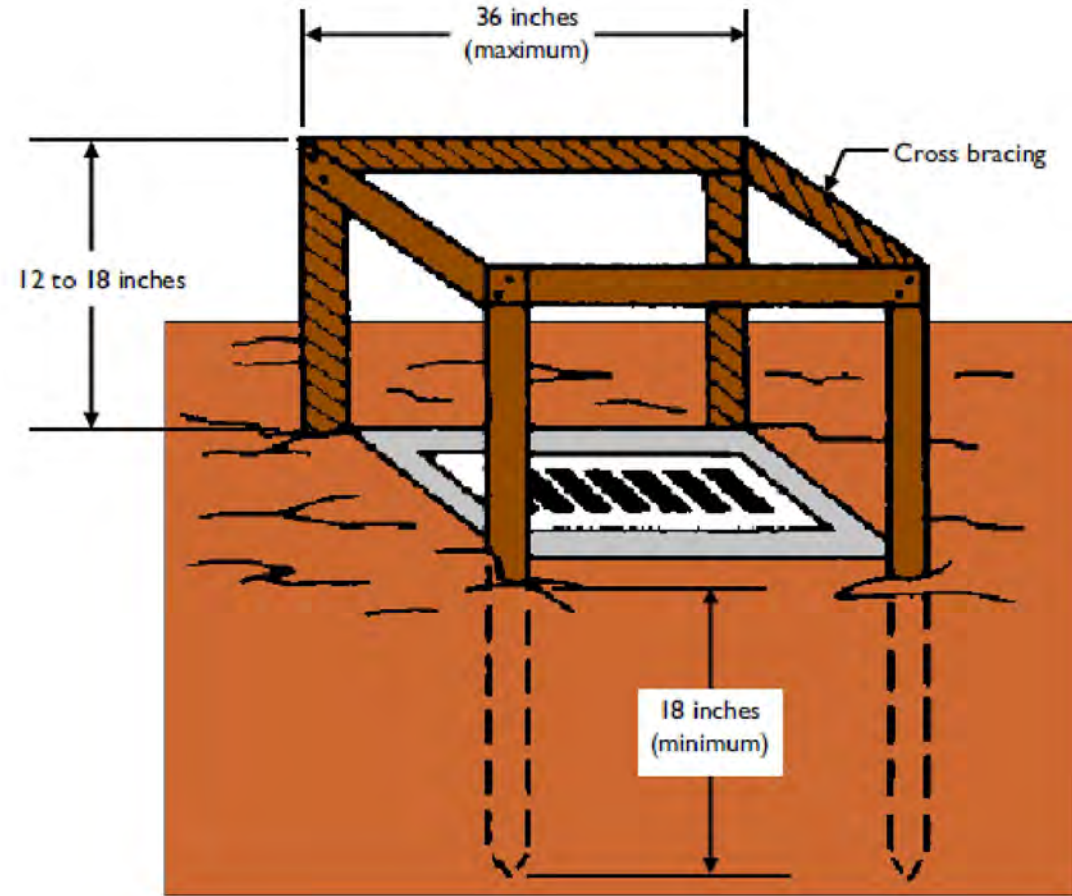
1. Support posts
2. 2 x 2 inch or 2 x 4 inch hardwood posts.
3. Three feet length, minimum.
4. 1 x 2 inch or 1 x 3 inch hardwood cross bracing lumber.
5. Lathe.
6. Staples or nails.
7. Geotextile fabric

Table 1. Geotextile Fabric Specifications

Physical Property	Woven	Non-Woven
Filtering Efficiency	85%	85%
UV Resistance (Inhibitors and stabilizers to ensure six month minimum life at temperatures of 0° to 120° F)	70%	85%
Tensile Strength at 20% Elongation:		
Standard Strength	30 lbs./linear inch	50 lbs./linear inch
Extra Strength	50 lbs./linear inch	70 lbs./linear inch
Slurry Flow Rate	0.3 gal./min./sq. ft.	4.5 gal./min./sq. ft.
Water Flow Rate	15 gal./min./sq. ft.	220 gal./min./sq. ft.

INSTALLATION

1. Dig an eight-inch deep, four-inch wide trench around the perimeter of the inlet.
2. If using pre-assembled geotextile fabric and posts, drive the posts into the soil, tightly stretching the geotextile fabric between posts as each is driven. (Posts must be placed on the inlet side of the anchor trench with the geotextile fabric on the side of the trench farthest from the inlet.)
Note: If assembling the geotextile fabric and posts on-site, drive the posts into the soil and then secure the geotextile fabric to the posts by placing a piece of lathe over the fabric and fastening it to the post (stretching the fabric between posts as it is fastened).
3. Use the wrap join method when joining posts (see Silt Fence on sheet C520, C530).
4. Place the bottom 12 inches of geotextile fabric into the eight-inch deep trench, laying the remaining four inches in the bottom of the trench and extending away from the inlet.
5. Backfill the trench with soil material and compact it in place.
6. Brace the posts by nailing braces into each corner post or utilize rigid panels to support fabric.
Note: In situations where storm water may bypass the structure, either:
 1. Set the top of the geotextile fabric filter at least six inches lower than the ground elevation on the down-slope side of the storm drain inlet,
 2. Build a temporary dike, compacted to six inches higher than the fabric, on the down-slope side of the storm drain inlet, AND/OR



SILT FENCE

MATERIALS

1. Fabric – woven or non-woven geotextile fabric meeting specified minimums outlined in Table 2.
 - a. Height – a minimum of 18 inches above ground level (30 inches maximum).
 - b. Reinforcement – fabric securely fastened to posts with wood lathe.
2. Support Posts
 - a. 2 x 2 inch hardwood posts. Steel fence posts may be substituted for hardwood posts (steel posts should have projections for fastening fabric).
 - b. Spacing – Eight feet maximum if fence is supported by wire mesh fencing. Six feet maximum for extra-strength fabric without wire backing.

Table 1. Slope Steepness Restrictions

Percent Slope		Maximum Distance
< 2%	< 50:1	100 feet
2% – 5%	50:1 to 20:1	75 feet
5% – 10% ¹	20:1 to 10:1	50 feet
10% – 20% ¹	10:1 to 5:1	25 feet
> 20% ¹	> 5:1	15 feet

¹ Consider other alternatives.

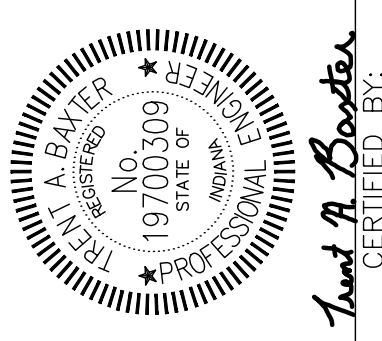
Note: Multiple rows of silt fence are not recommended on the same slope.

Table 2. Geotextile Fabric Specifications for Silt Fence (minimum)

Physical Property	Woven Geotextile Fabric	Non-Woven Geotextile Fabric
Filtering efficiency	85%	85%
Textile strength at 20% elongation Standard strength Extra strength	30 lbs. per linear inch 50 lbs. per linear inch	50 lbs. per linear inch 70 lbs. per linear inch
Slurry flow rate	0.3 gal./min./square feet	4.5 gal./min./square feet
Water flow rate	15 gal./min./square feet	220 gal./min./square feet
UV resistance	70%	85%
Post spacing	7 feet	5 feet

Note: Silt fences can be purchased commercially.

VERSATILE
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BAXTER ENGINEERING LLC
570 Tracy Road, Suite 630
New Whiteland, IN 46184
Phone: 317-559-4142
Cell: 317-559-4142
BaxterEngineeringllc@gmail.com

Addition to:
New Pal Shops
5936 Dragon Drive
New Palestine, Indiana

Site Erosion Control Details

REVISION

Job No. 26017	Date Stamped 09/04/2026
Drawn By cow	Checked By / Scale: tab
CAD FILE: C:\Users\TJ\Documents\2026 site erosion control details.dwg	
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SHEET TITLE:	

C520

INSTALLATION

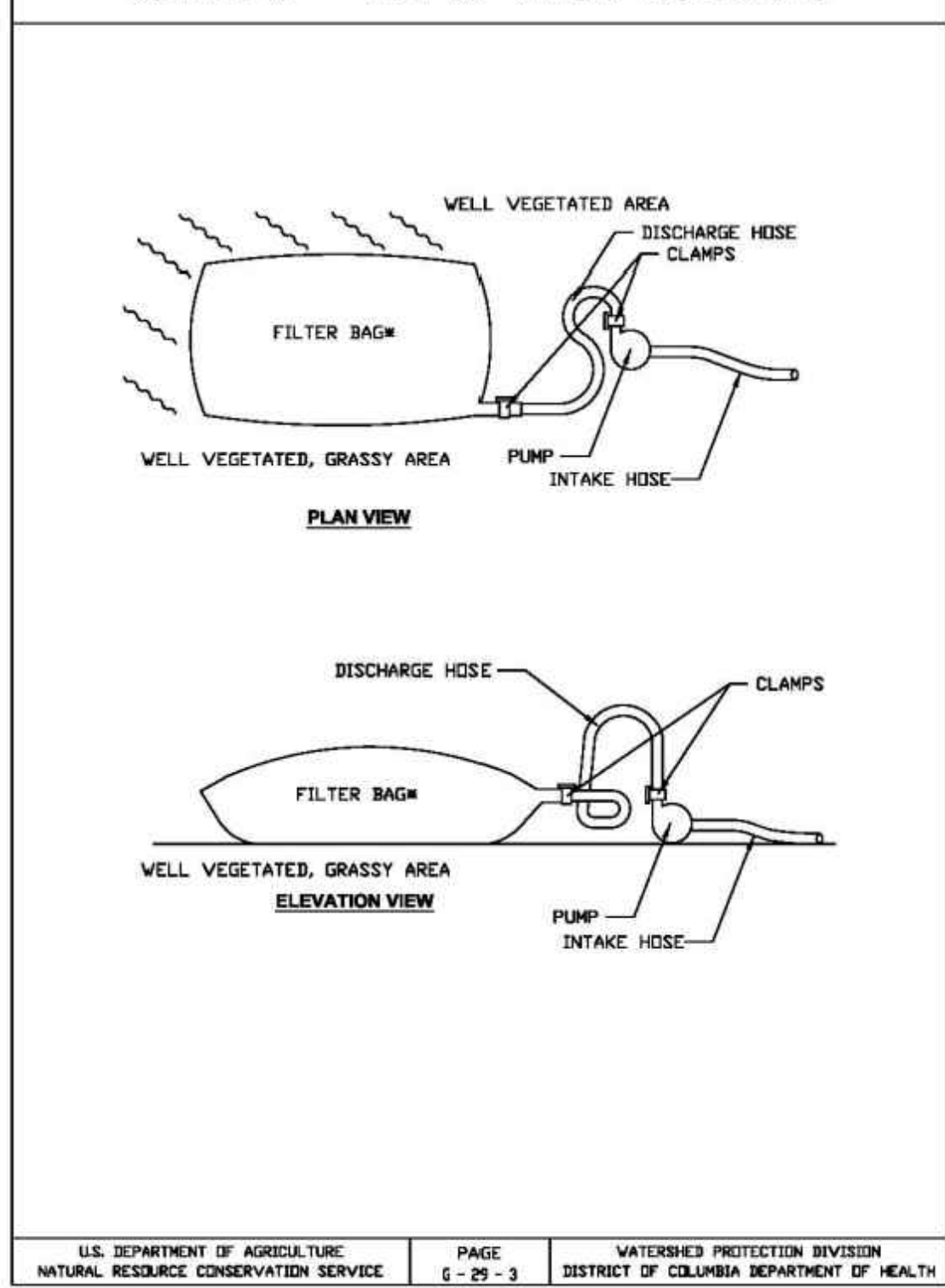
Prefabricated

1. Lay out the location of the fence so that it

- Note: If the silt fence is being constructed on-site, attach the filter fabric to the support posts (refer to Tables 1 and 2 for spacing and geotextile specifications) and attach wooden lathe to secure the fabric to the posts. Allow for at least 12 inches of fabric below ground level. Complete the silt fence installation, following steps 1 through 6 above.

The diagram illustrates the cross-section of a trench installation. A vertical pipe is shown with a 36 inch (min.) hardwood post on its right side. The trench is filled with compacted fill (orange dotted area) and geotextile fabric secured with lathe. The geotextile fabric is laid on the down-slope side and bottom of the trench. The trench depth is 18 inches (min.), and the width is 4 inches. The top of the trench is 8 inches from the surface. A flow arrow points to the right, indicating the direction of water flow.

DETAIL 37 - PUMPED WATER FILTER BAG



MATERIALS

1. Self-contained sturdy containment systems that are delivered to a site
2. Minimum of ten millimeter polyethylene sheeting that is free of holes, tears, and other defects. The sheeting selected should be of an appropriate size to fit the washout system without seams or overlap of the lining
3. Signage.

Roughening Slopes (To Be Mowed)

1. Make slopes to be mowed no steeper than 3:1.
 2. Use a tiller, disk, harrow, or culti-packer to roughen the slopes, creating shallow grooves no more than ten inches apart, one inch deep, and that run parallel to the slope contour.
- Roughening Areas with Tracked Machinery
1. Limit roughening with tracked machinery to sandy or relatively dry, finertextured soils to avoid undue surface compaction. (This roughening method is generally not as effective as other roughening methods.)
 2. Operate the tracked machinery up and down the slope so as to leave horizontal depressions in the soil.

Note: Do not back-blade during the final grading operation.

Seeding, 1. Immediately seed, fertilize, and mulch surface-roughened areas while soil is loose and moist to aid seed germination and vegetative growth (see Temporary Seeding Sheet C510; Permanent Seeding Sheet C510, C520; Mulching Sheet C520).

2. If roughening with tracked machinery, consider seeding, fertilizing, and mulching first, letting the cleats of the tracks incorporate the seed and fertilizer into the surface and anchor the mulch. This is especially well suited for temporary seeding when timeliness is critical and equipment is unavailable for planting operations.

MATERIALS

THE DANDY SACK WILL BE MANUFACTURED IN THE U.S.A. FROM A WOVEN MONOFILAMENT FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS:
REGULAR FLOW DANDY SACK™ (BLACK)

Mechanical Properties	Test Method	Units	MARV
Grob Tensile Strength	ASTM D 4632	kN (lbs)	1.78 (400 x 1.40 (315))
Grob Tensile Elongation	ASTM D 4632	%	15 x 15
Puncture Strength	ASTM D 4633	kN (lbs)	0.67 (150)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	5506 (800)
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.67 (150 x 0.73 (165))
UV Resistance	ASTM D 4535		
Apparent Opening Size	ASTM D 4751	Mm (US Std Sieve)	0.425 (40)
Permeability	ASTM D 4491	l/m ² /min ² (gal/m ² /min ²)	2850 (70)
Permittivity	ASTM D 4491	Sec	

Mechanical Properties	Test Method	Units	MARV
Grob Tensile Strength	ASTM D 4632	kN (lbs)	1.62 (365) X 0.89 (200)
Grob Tensile Elongation	ASTM D 4632	%	24 X 10
Puncture Strength	ASTM D 4833	kN (lbs)	0.40 (90)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	909 (133)
Impact Tear Strength	ASTM D 3853	kN (lbs)	0.51 (115) X 0.33 (75)
UV Resistance	UV D 3535		3070 (440)
Apparent Opening Size	ASTM D 4751	µm (US Std Sieve)	0.425 (40)
Flow Rate	ASTM D 4491	l/min/m ² (gal/min/ft ²)	5902 (143)
Permeability	ASTM D 4491	sec. ⁻¹	2

The diagram illustrates the components of the stormwater management system. At the top, a rectangular **STORM SEWER GRATE** is shown with a grid of circular openings. Below it is a **MANAGEABLE 2 FOOT CONTAINMENT AREA**, which is a square frame structure. This frame has **REINFORCED CORNERS** and **LIFT STRAPS** on its top edge. The frame is designed to hold a **DUMPING STRAPS** bag. The bag has **OVERFLOW PORTS** on its sides. The entire assembly is placed over a **STORM INLET** in a concrete structure. A **STORM SEWER** pipe is shown entering the structure from the bottom left.

EROSION CONTROL INSPECTION GUIDELINES TABLE

EROSION CONTROL MEASURE	EROSION CONTROL MEASURE INSPECTION FREQUENCY			
	DAILY	WEEKLY	AFTER RAIN EVENT	AS NEEDED
TREE PRESERVATION				X
CONSTRUCTION ENTRANCE	X			X
TOP SOIL STOCKPILE		X		X
TEMPORARY SEEDING		X	X	X
PERMANENT SEEDING			X	X
MULCHING		X		X
CONTROL BLANKET		X		X
TURF REINFOR. MAT		X		X
ROCK CHECK DAM		X		X
FABRIC INLET	X			X
SILT FENCE		X		X
CONCRETE WASHOUT				X
SURFACE ROUGHENING				X
DANDY SACKS		X	X	X
DUST CONTROL				X

TREE PRESERVATION

1. Inspect at least once every seven calendar days.
2. Repair perimeter barriers if damaged.
3. Inspect for damage from construction equipment, etc. Repair wounds simply by removing damaged bark and wood tissue. Do not use tree paint.
4. Cable and brace any trunk splits, weak unions, and large limbs.
5. Properly prune all damaged limbs. Avoid leaving stubs.
6. Aerate soil where compaction has been excessive.
7. Fertilize to improve tree growth, vigor, and appearance.
8. Water during dry periods to help offset soil compaction and root damage.

1. Inspect daily.
2. Reshape pad as needed for drainage and runoff control.
3. Top-dress with clean aggregate as needed.
4. Immediately remove mud and sediment tracked or washed onto public roads.
5. Flushing should only be used if the water from the construction drive can be conveyed into a sediment trap or basin.

1. Inspect daily.
2. Check for damage to perimeter barrier; repair immediately.
3. Check for erosion or damage to newly spread topsoil; repair immediately and revegetate.

1. Inspect within 24 hours of each rain event and at least once every seven calendar days.

4. If nitrogen deficiency is apparent, top-dress fall seeded wheat or rye seeding with 50 pounds per acre of nitrogen in February or March.

1. Inspect within 24 hours of each rain event and at least once every seven calendar days until the vegetation is successfully established.
2. Characteristics of a successful stand include vigorous dark green or bluish-green seedlings with a uniform vegetative cover density of 90 percent or more.
3. Check for erosion or movement of mulch.
4. Repair damaged, bare, gullied, or sparsely vegetated areas and then fertilize, reseed, and apply an anchor mulch.
5. If plant cover is sparse or patchy, evaluate the plant materials chosen, soil fertility, moisture condition, and mulch application; repair affected areas either by overseeding or preparing a new seedbed and reseeding. Apply and anchor mulch on the newly seeded areas.
6. If vegetation fails to grow, consider soil testing to determine soil pH or nutrient deficiency problems. (Contact your soil and water conservation district or cooperative extension office for assistance.)
7. If additional fertilization is needed to get a satisfactory stand, do so according to soil test recommendations.

EROSION CONTROL MAINTENANCE GUIDELINES (CONT.)

8. Add fertilizer the following growing season. Fertilize according to soil test recommendations.
9. Fertilize turf areas annually. Apply fertilizer in a split application. For cool-season grasses, apply one-half of the fertilizer in late spring and one-half in early fall. For warm-season grasses, apply one-third in early spring, one-third in late spring, and the remaining one-third in middle summer.

1. Inspect within 24 hours of each rain event and at least once every seven calendar days.
2. Check for erosion or movement of mulch; repair damaged areas, reseed, apply new mulch and anchor the mulch in place.
3. Continue inspections until vegetation is firmly established.
4. If erosion is severe or recurring, use erosion control blankets or other more substantial stabilization methods to protect the area.

1. Inspect within 24 hours of each rain event and at least once every seven calendar days.
2. Check for erosion or displacement of the blanket.
3. If any area shows erosion, pull back that portion of the blanket covering the eroded area, add soil and tamp, reseed the area, replace and staple the blanket.

1. Inspect within 24 hours of each rain event and at least once every seven calendar days.
2. Check for erosion or displacement/exposure of the mat.
3. If a specific area shows erosion, add soil and restabilize.

1. Inspect within 24 hours of each rain event and at least once every seven calendar days.
2. If significant erosion occurs between dams, install an erosion-resistant liner in that portion of the channel.
3. Remove accumulated sediment when it reaches one-half the height of the dam to maintain channel capacity, allow drainage through the dam, and prevent large flow from displacing sediment.
4. Add riprap and aggregate as needed to maintain design height and cross section of the dams.
5. When dams are no longer needed, remove the riprap and aggregate and stabilize the channel, using an erosion-resistant lining if necessary. (Riprap and aggregate from the dam may be removed or utilized to stabilize the channel.)

1. Inspect daily.
2. Inspect geotextile fabric and make needed repairs immediately.
3. Remove sediment from pool area to provide storage for the next storm event. Avoid damaging or undercutting fabric during sediment removal.
4. When contributing drainage area has been stabilized, remove sediment, properly dispose of all construction material, grade area to the elevation of the storm drain inlet top, then stabilize immediately.

1. Inspect within 24 hours of a rain event and at least once every seven calendar days.
2. If fence fabric tears, starts to decompose, or in any way becomes ineffective, replace the affected portion immediately. Note: All repairs should meet specifications as outlined within this measure.
3. Remove deposited sediment when it is causing the filter fabric to bulge or when it reaches one-half the height of the fence at its lowest point. When contributing drainage area has been stabilized, remove the fence and sediment deposits, grade the site to blend with the surrounding area, and stabilize.

1. Inspect daily and after each storm event.
2. Inspect the integrity of the overall structure including, where applicable, the containment system.
3. Inspect the system for leaks, spills, and tracking of soil by equipment.
4. Inspect the polyethylene lining for failure, including tears and punctures.
5. Once concrete wastes harden, remove and dispose of the material.
6. Excess concrete should be removed when the washout system reaches 50 percent of the design capacity. Use of the system should be discontinued until appropriate measures can be initiated to clean the structure. Prefabricated systems should also utilize this criterion, unless the manufacturer has alternate specifications.
7. Upon removal of the solids, inspect the structure. Repair the structure as needed or construct a new system.
8. Dispose of all concrete in a legal manner. Reuse the material on site, recycle, or haul the material to an approved construction/demolition landfill site. Recycling of material is encouraged. The waste material can be used for multiple applications including but not limited to roadbeds and building. The availability of recycling should be checked locally.
9. The plastic liner should be replaced after every cleaning; the removal of material will usually damage the lining.
10. Concrete washout systems are designed to promote evaporation. Prefabricated units are often pumped and the company supplying the unit provides this service.
11. Inspect construction activities on a regular basis to ensure suppliers, contractors and others are utilizing designated washout areas. If concrete waste is being disposed of improperly, identify the violators and take appropriate action.

Minimizing wind erosion and controlling dust will be accomplished by one or more of the following methods:

1. Covering 30% or more of the soil with a non-erodible material
2. Roughening the soil to produce ridges (at least 6 inches) perpendicular to the prevailing wind.
3. Frequent watering of excavation and fill areas
4. Providing gravel or paving at entrance/exit drives, parking areas, and transit paths

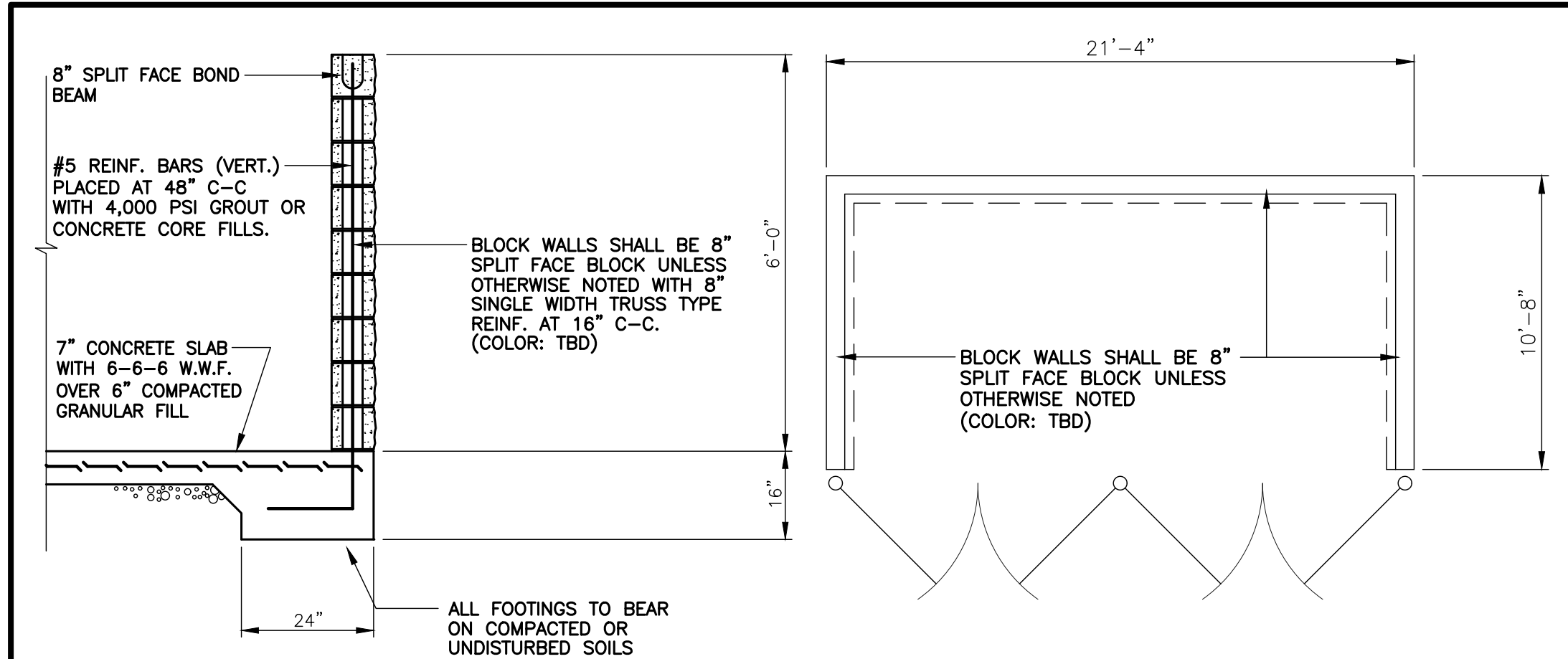
 VERSATILE CONSTRUCTION GROUP, LLC 570 Terry Road • Suite 610 • New Whiteland • Indiana 317.535.3300 • info@versatile-construction.com www.versatile-construction.com	 <i>Travis M. Baxter</i> CERTIFIED BY:	 BAXTER ENGINEERING, LLC One North Main Street New Whiteland, IN 46184 Office: 317-535-3300 Cell: 317-509-4142 BaxterEngineeringLLC@gmail.com	Addition to: New Pal Shops 5936 Dragon Drive New Palestine, Indiana	Erosion Control Details, Implementation and Maintenance Guidelines																													
			<table border="1"> <tr> <td>REVISION</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>	REVISION																				<table border="1"> <tr> <td>Job No.</td> <td>26017</td> <td>Date Stamped</td> <td>09/04/2026</td> </tr> <tr> <td>Drawn By</td> <td>cw</td> <td>Checked By</td> <td>Scale:</td> </tr> <tr> <td></td> <td></td> <td></td> <td>tab</td> </tr> </table>	Job No.	26017	Date Stamped	09/04/2026	Drawn By	cw	Checked By	Scale:	
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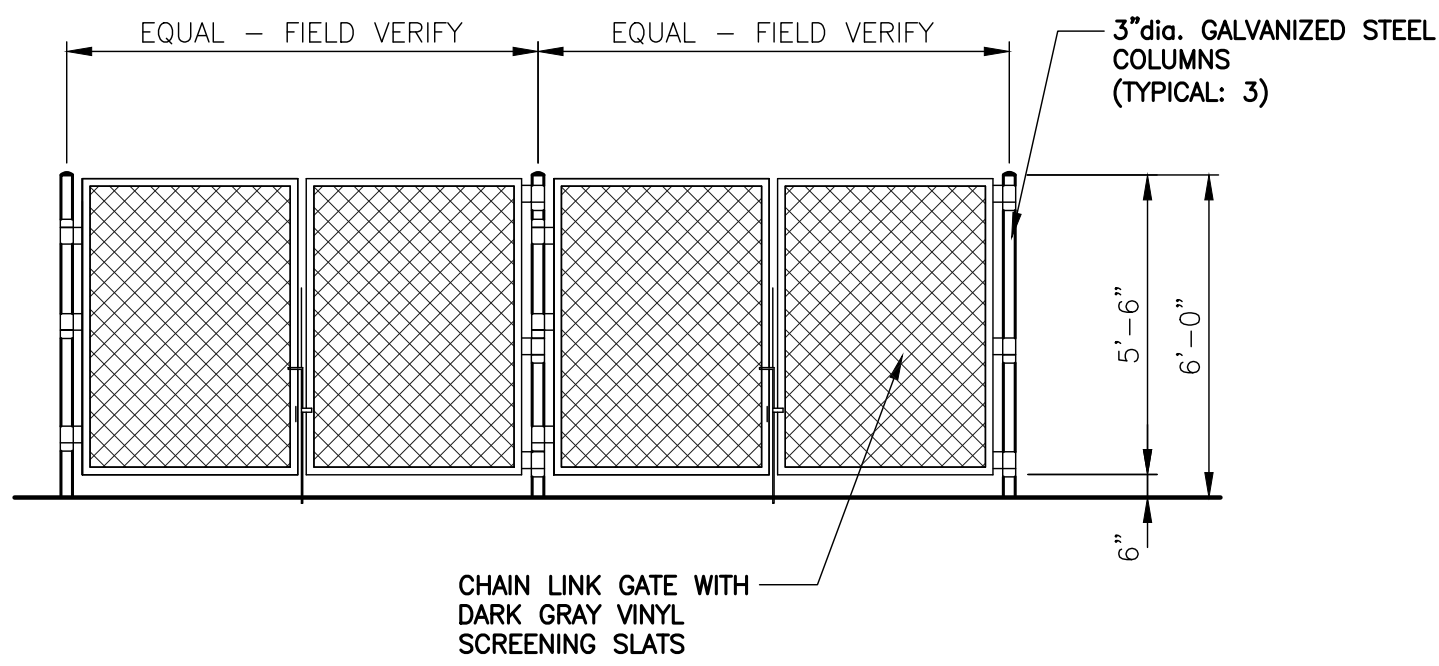
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C530

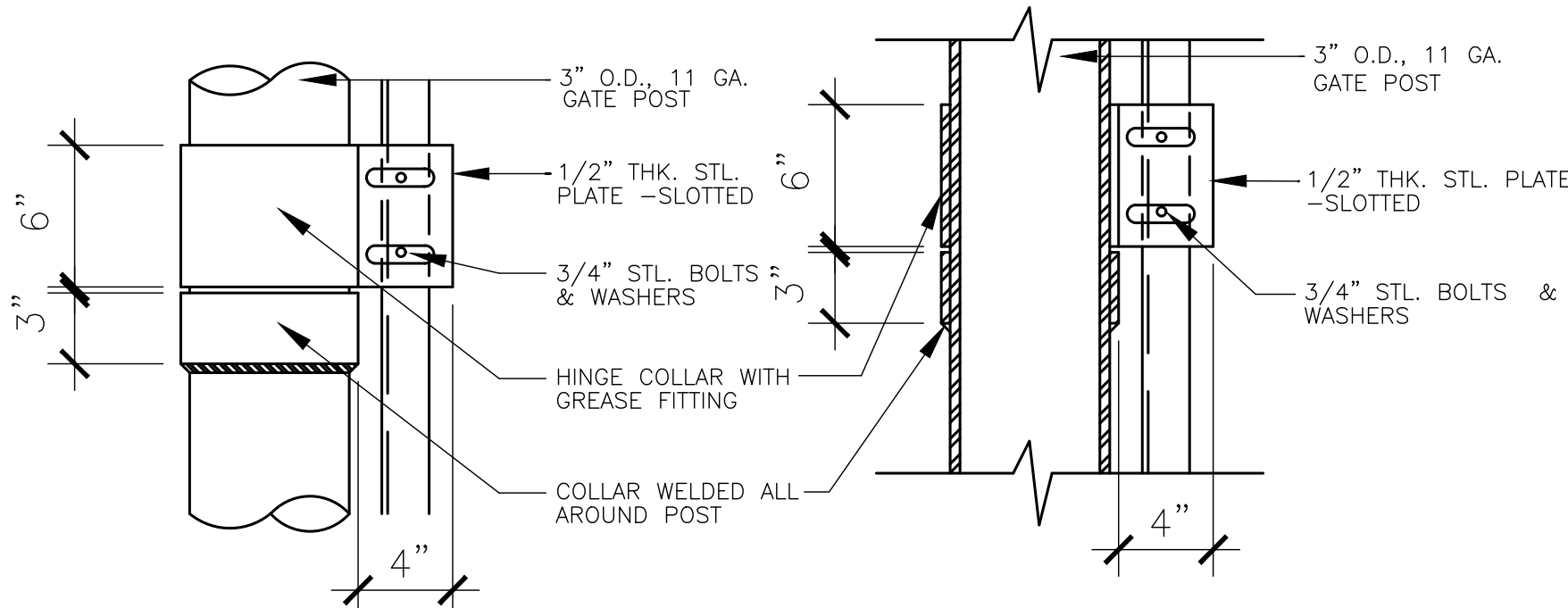


TYPICAL DUMPSTER ENCLOSURE WALL SECTION
SCALE: 1/2"= 1'-0"

DOUBLE DUMPSTER ENCLOSURE PLAN
SCALE: N.T.S.



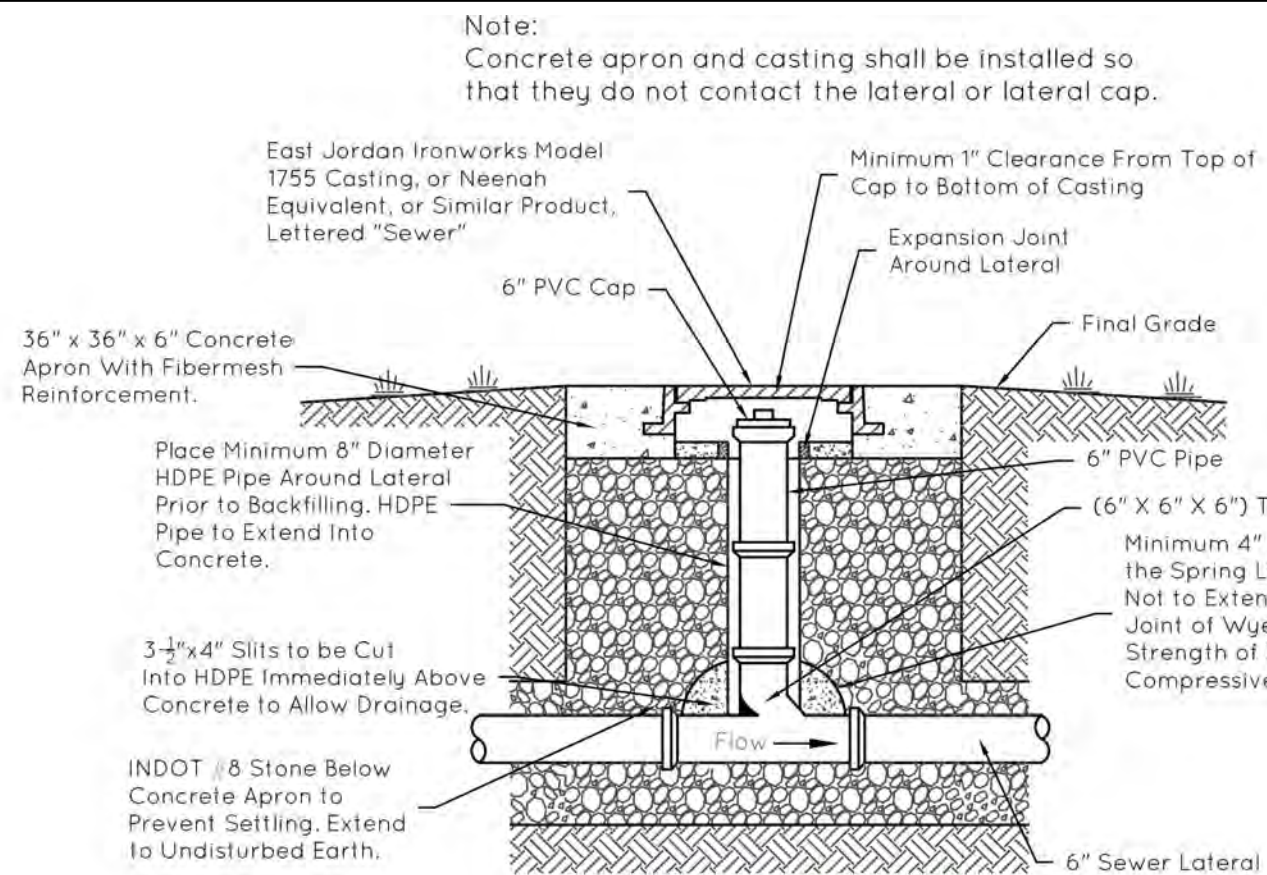
DOUBLE DUMPSTER ENCLOSURE GATE ELEVATION
SCALE: N.T.S.



ELEVATION

SECTION

GATE HINGE CONNECTION DETAILS



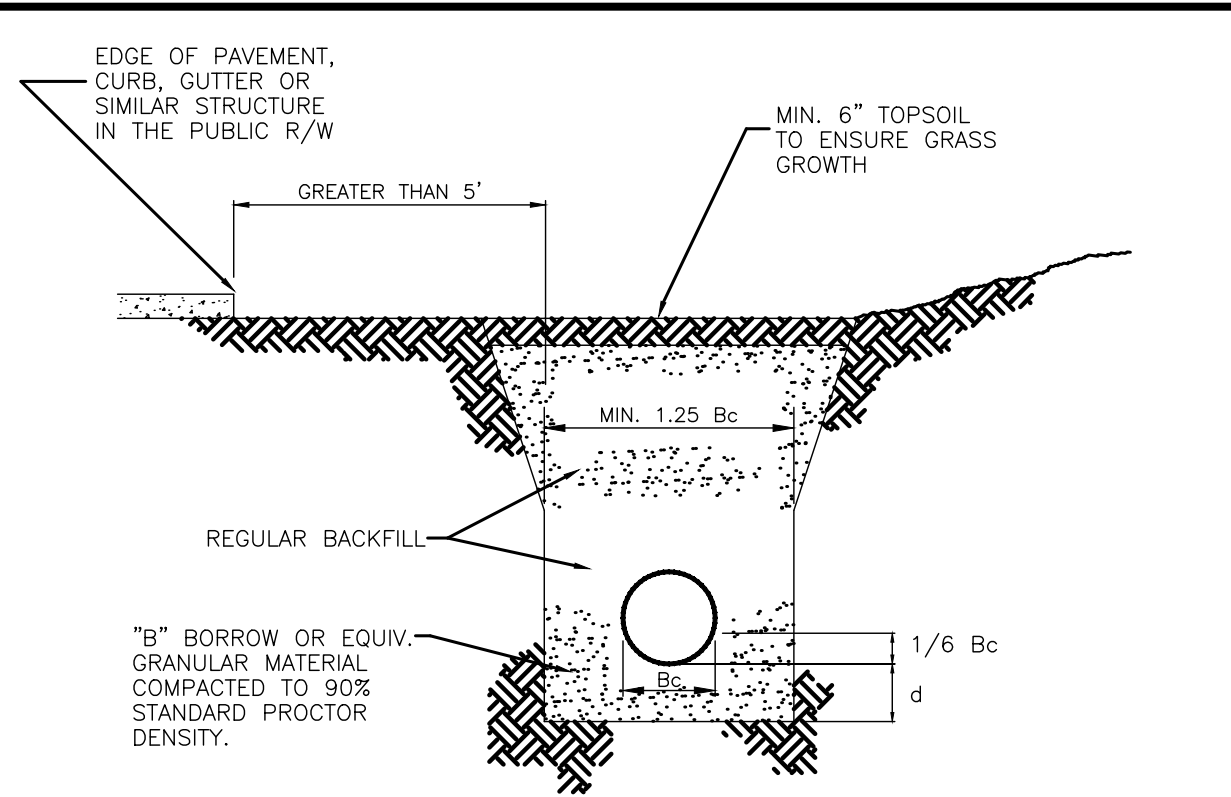
CLEANOUT TYPE 2

(Hardscape Surfaces and All Other Installations Beyond Three Feet of Building)

- Notes:
- Top of casting or cleanout cap shall extend 0.20 feet minimum above finished grade unless constructed within pedestrian or vehicular traffic way. Unless approved by Engineer, sanitary sewer castings or cleanouts must not be within one (1) foot horizontal distance of any paved or concrete surfaces.
 - All cleanout pipes and fittings to be PVC Schedule 40 or SDR 35 when shallower than twelve (12) feet. At depths greater than twelve (12) feet, material of construction will be determined by Engineer.

TYPICAL CLEANOUTS

Not to Scale



GREATER THAN 5' FROM EDGE OF PAVEMENT

DEPTH OF BEDDING MATERIAL BELOW PIPE	(d) MIN.
27" & SMALLER	3"
30" TO 60"	4"
66" & LARGER	6"

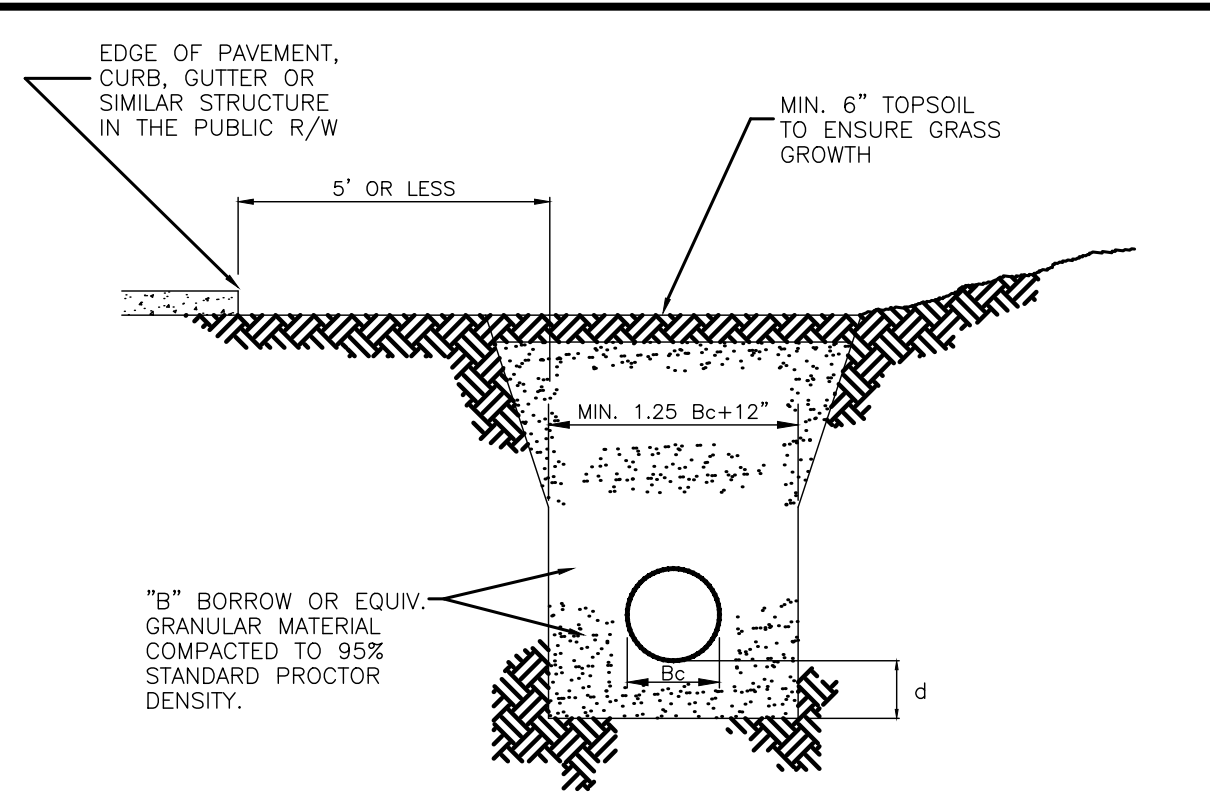
NOTE:
ALL BEDDING AND INITIAL BACKFILL SHALL BE INSTALLED IN 6" TO 12" BALANCED LIFTS.
A MINIMUM 9" CLEARANCE SHALL BE PROVIDED ON EACH SIDE OF THE INSTALLED PIPE.

LEGEND

Bc = OUTSIDE DIAMETER
D = INSIDE DIAMETER
d = DEPTH OF BEDDING MATERIAL BELOW PIPE

REINFORCED CONCRETE PIPE (RCP) TRENCH DETAIL

GREATER THAN 5' FROM EDGE OF PAVEMENT



WITHIN 5' OF EDGE OF PAVEMENT

DEPTH OF BEDDING MATERIAL BELOW PIPE	(d) MIN.
27" & SMALLER	3"
30" TO 60"	4"
66" & LARGER	6"

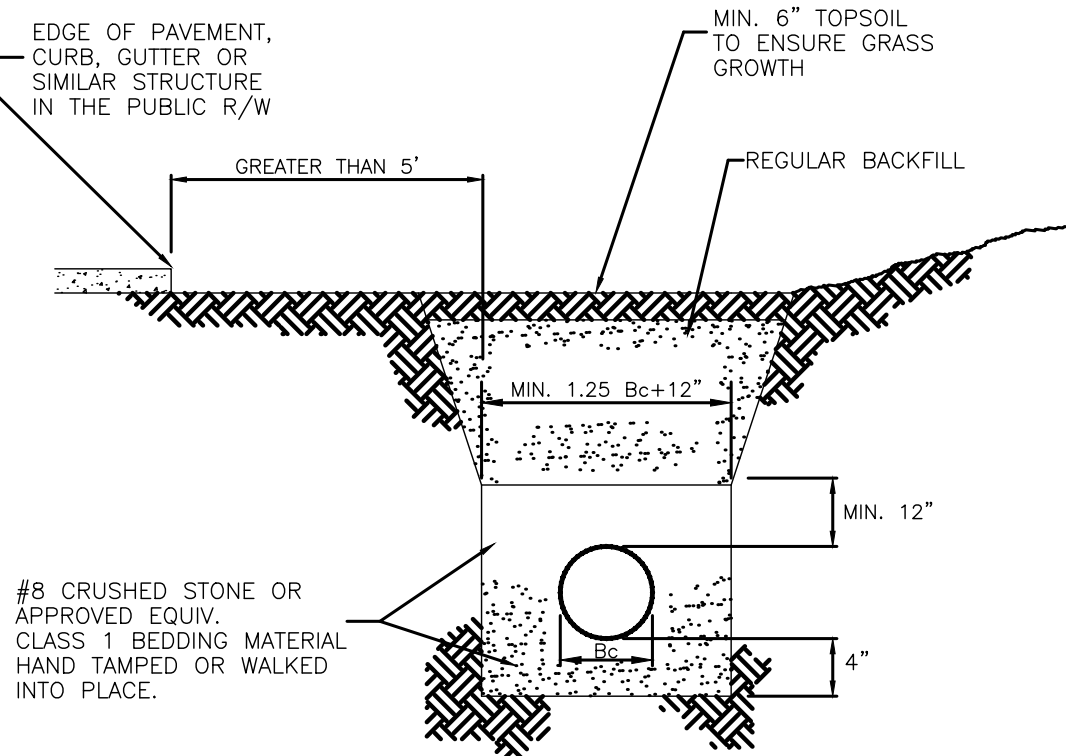
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REINFORCED CONCRETE PIPE (RCP) TRENCH DETAIL

WITHIN 5' OF EDGE OF PAVEMENT



GREATER THAN 5' FROM EDGE OF PAVEMENT

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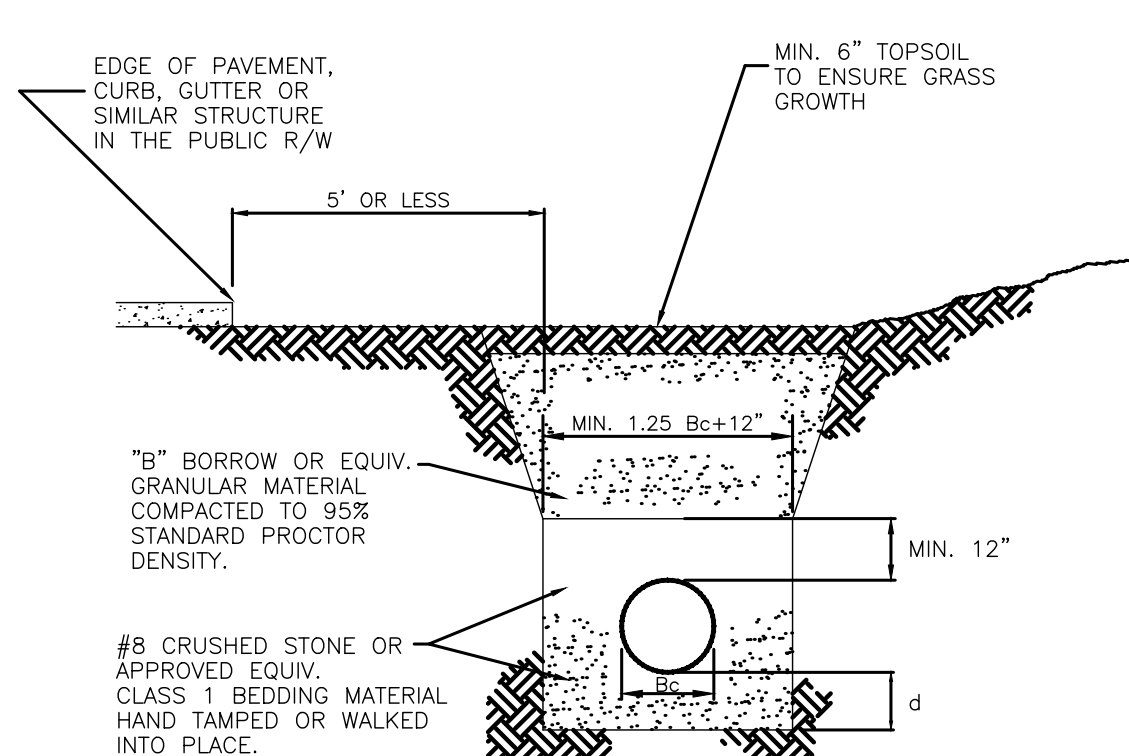
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LEGEND

Bc = OUTSIDE DIAMETER
D = INSIDE DIAMETER
d = DEPTH OF BEDDING MATERIAL BELOW PIPE

PLASTIC PIPE (PVC & HDPE) TRENCH DETAIL

GREATER THAN 5' FROM EDGE OF PAVEMENT



WITHIN 5' OF EDGE OF PAVEMENT

DEPTH OF BEDDING MATERIAL BELOW PIPE	(d) MIN.
27" & SMALLER	3"
30" TO 60"	4"
66" & LARGER	6"

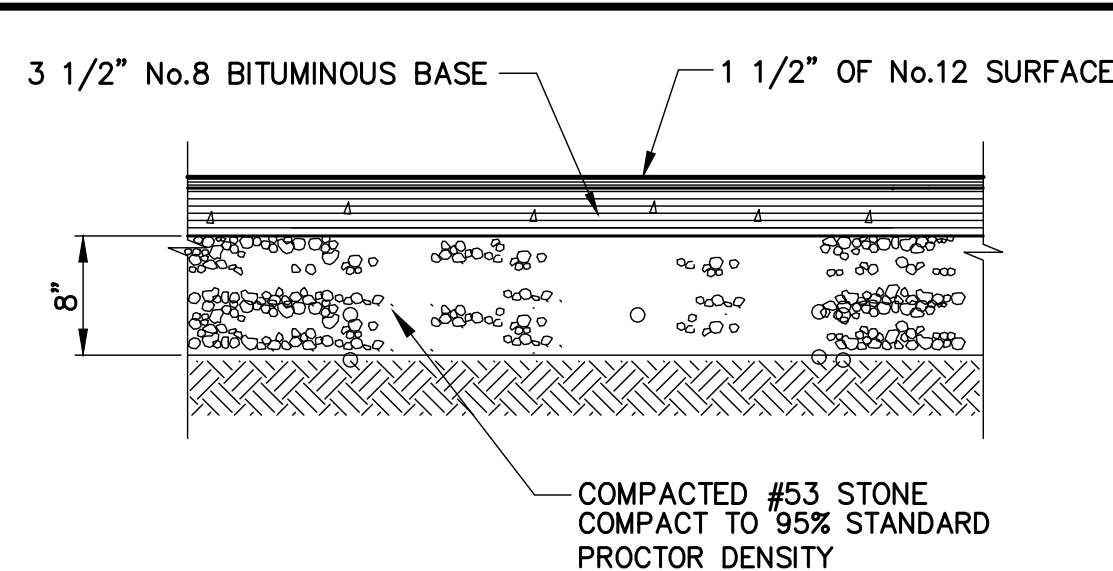
NOTE:
ALL BEDDING AND INITIAL BACKFILL SHALL BE INSTALLED IN 6" TO 12" BALANCED LIFTS.
A MINIMUM 9" CLEARANCE SHALL BE PROVIDED ON EACH SIDE OF THE INSTALLED PIPE.

LEGEND

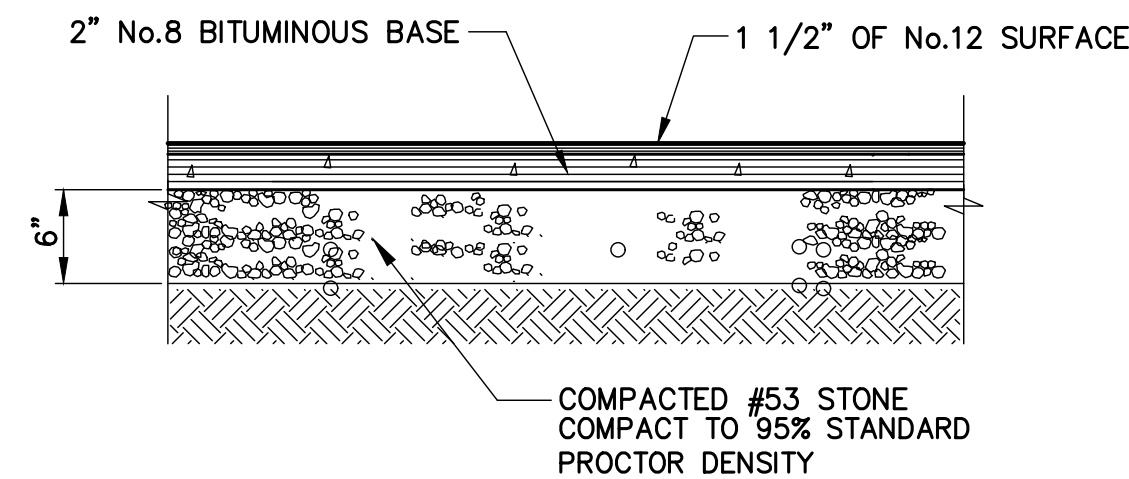
Bc = OUTSIDE DIAMETER
D = INSIDE DIAMETER
d = DEPTH OF BEDDING MATERIAL BELOW PIPE

PLASTIC PIPE (PVC & HDPE) TRENCH DETAIL

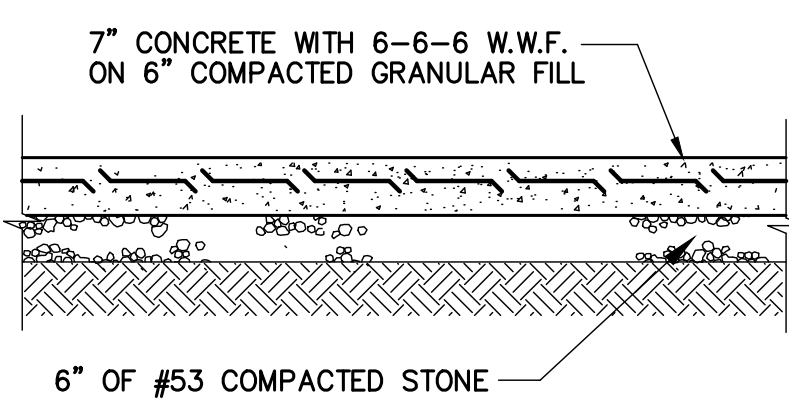
WITHIN 5' OF EDGE OF PAVEMENT



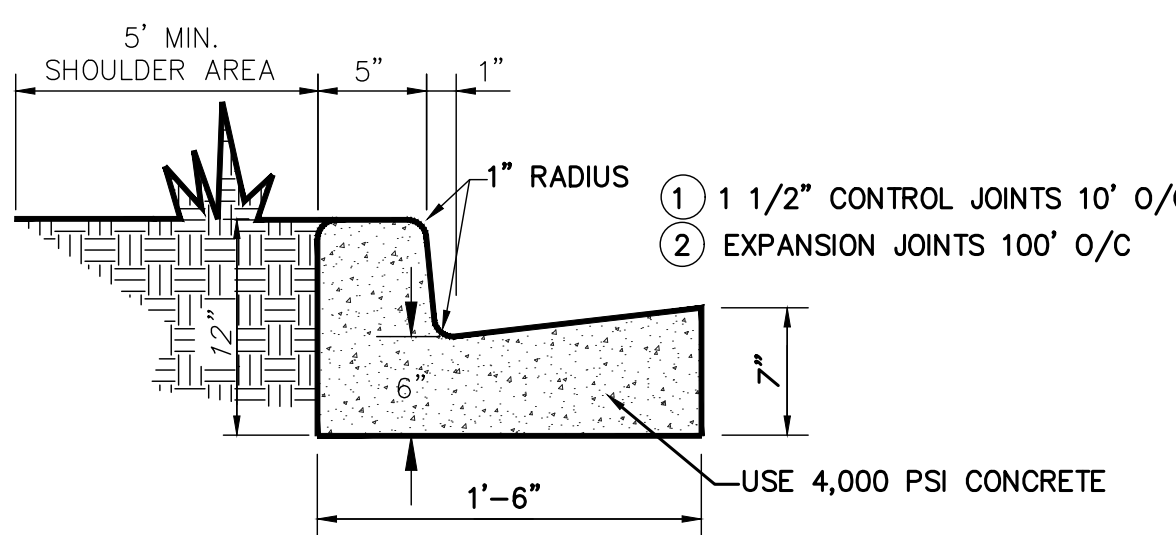
TYPICAL HEAVY DUTY ASPHALT PAVEMENT DETAIL
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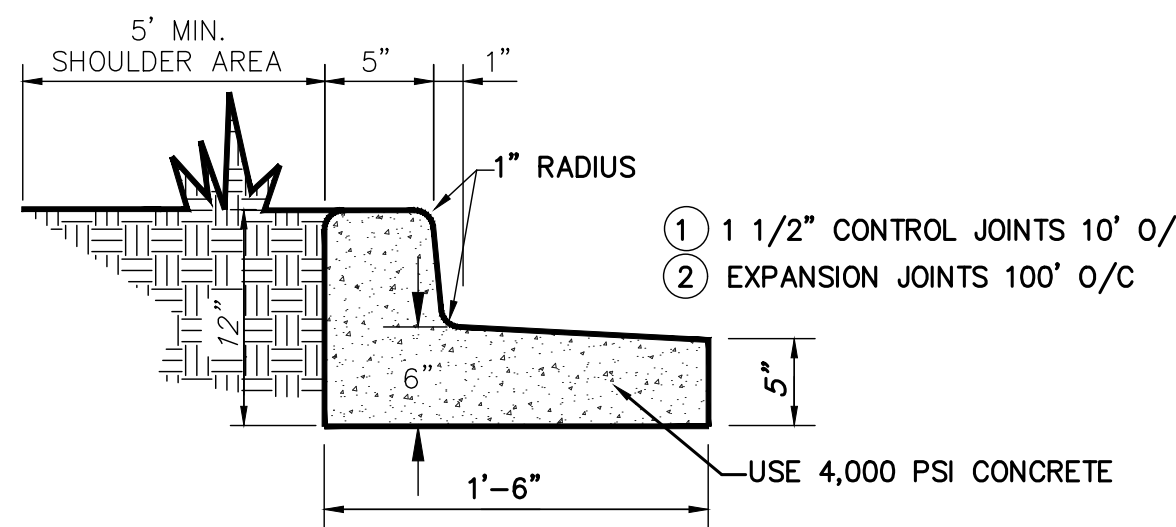
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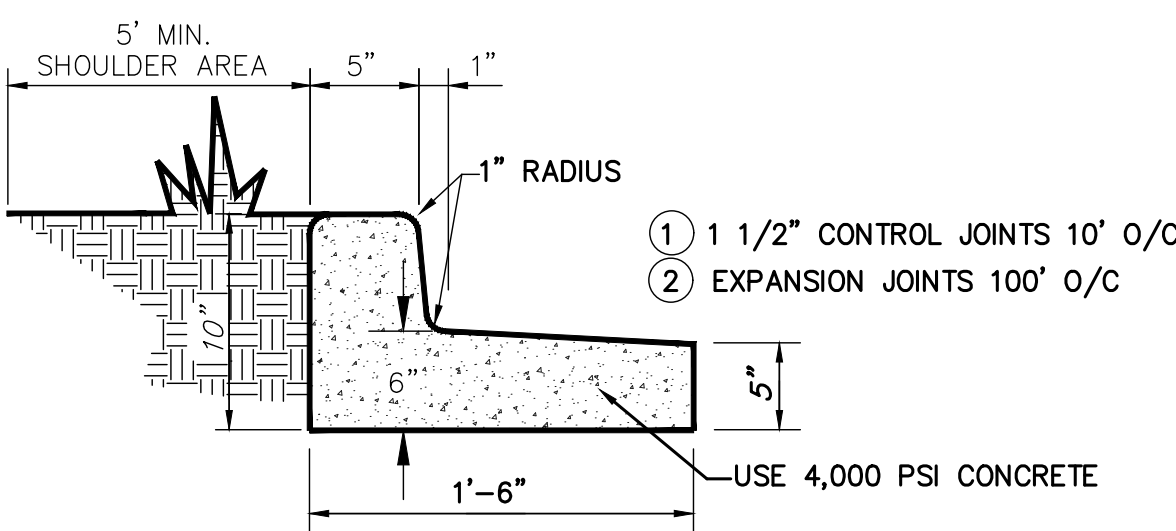
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CURB "A" 18" CONCRETE CURB & GUTTER DETAIL
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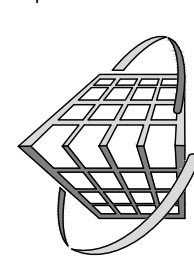


CURB "B" 18" INVERTED CONCRETE CURB & GUTTER DETAIL
NO SCALE



CURB "C" 18" INVERTED CONCRETE CURB & GUTTER DETAIL
NO SCALE

VERSATILE
CONSTRUCTION GROUP, LLC
570 East Tracy Road • Suite 610 • New Palestine, Indiana 46184
www.versatileconstruction-llc.com



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PROFESSIONAL ENGINEER
STATE OF INDIANA
NO. 19700
CERTIFIED BY:

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BaxterEngineeringllc@gmail.com

Addition to:
New Pal Shops
5936 Dragon Drive
New Palestine, Indiana

General Sitework Details

REVISION

Job No.	Date Stamped
26017	09/04/2026

Drawn By	Checked By	Scale:
caw	tab	

CAD FILE:
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THIS DRAWING.

SHEET TITLE:

C600

GENERAL: WHEREVER A CONFLICT OR DEFICIENCY OCCURS BETWEEN THE CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THIS IMMEDIATE PROJECT AND THE CONSTRUCTION STANDARDS AND SPECIFICATIONS ADOPTED BY THE LOCAL GOVERN AGENCIES, THE HIGHER OR MORE RESTRICTIVE STANDARD OR SPECIFICATION SHALL APPLY.

A. STANDARD CONDITIONS

- The Contractor shall be responsible for obtaining or verifying that all permits and approvals are obtained from the respective city, county and state agencies prior in starting construction.
- It shall be the responsibility of each utility, contractor and/or sub-contractor to obtain all permits and approvals to open cut any road from the appropriate department.
- It shall be the Contractor's responsibility to determine the exact location of all existing utilities in the vicinity of the construction area prior to starting construction.
- It shall be the Contractor's responsibility for notification and coordination of all construction with the respective utility companies.
- It shall be the responsibility of the Developer and 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 Developer have a qualified inspector on the job site at all times during construction.
- It is essential that the work be done in conjunction with this project shall be installed according to these specifications. The engineer will be required to certify to certain portions of this project upon completion. Therefore, it is necessary to obtain approval and acceptance by the city, county, state or govern agency that construction was done in compliance with these plans and specifications.
- If poor soil conditions are encountered during excavation for footings, or any other construction, the required excavation shall be determined and backfilled with compacted No.5.3 stone to a depth adequate to obtain a minimum soil bearing pressure of 3,000 psi at the cost of the owner.

B. CLEARING AND GRUBBING

- Clearing and grubbing shall consist of cutting removal and satisfactory disposal of all trees, down timber, brush, projecting roots, stumps, rubbish, boulders, broken concrete, fencing (as designated) and other material on the project site and within the boundary as shown on the construction documents and/or as designed by "construction limits".
- Special instructions shall be taken to insure that trees to be left remaining in the project area shall not receive limb, bark or root injuries. hen such injuries occur, all rough edges of scored areas shall be removed in accordance with accepted horticultural practice and the scars coated thoroughly with an asphaltum base tree paint.
- All "unsuitable material" from clearing operations stated in items B-1 shall be remove to disposal area(s) off of the project site unless a "bury pit" shall be utilized in an area where it shall not be beneath building areas and/or pavement areas and shall not be located in an area where storm drainage structures shall be located and where impoundment of surface drainage may occur.
- Material shall not be disposed of by burying unless approved by the local and state fire marshal.

C. TREE REMOVAL AND PROTECTION

- Trees should only be cleared only where the area is to be occupied by road and surfaced areas in accordance with specifications of the city, county, state or govern agency.
- Trees shall be removed from the project site or buried within the project as directed by the Developer and only in the areas designated.
- Trees shall be removed from the project where they interfere directly with the placement of storm or sanitary sewers and that such excavation is or will be fatal to such adjacent trees.
- The Contractor shall endeavor to save and protect trees of value and work which do not impair construction of improvements as designated. In the event cut or fill exceeds 0.5 foot over the root area, the Developer shall be consulted with respect to protective measures to be taken, if any, to preserve such trees.
- The contractor shall be responsible for determining the method for protection of tops, trunks and roots of existing trees on the project site that are to remain. Existing trees subject to construction damage shall be boxed, fenced or otherwise protected before any adjacent work is started. Earth or material or equipment shall not be stockpiled or stored within the spread of branches. Branches which need to be removed or are broken shall be neatly trimmed and shall be covered with tree paint.

D. STRIPPING OF TOPSOIL

- The contractor shall verify that all topsoil has been removed in the areas to be occupied by roads, walks and designated building areas. Topsoil shall be removed to a depth of six (6) inches or deeper, if necessary, to remove vegetative matter where required.
- Topsoil shall be kept separated from suitable fill materials and shall not be used to fill under pavement and/or building areas. Operations. Excess topsoil shall be spoiled on the site as directed by Owner or Engineer.
- Topsoil placed on the lot shall be reasonably free from subsoil debris and stones.

E. GRADING

- The contractor shall perform all grading operations to bring subgrades, after final compaction, to the required grades and sections of site improvement.
- Subgrade shall be prefinished with suitable equipment and all spongy and otherwise unsuitable material shall be removed and replaced with suitable material.
- Subgrade shall be prepared in compliance with I.N.D.O.T. Standard Specifications, latest Edition, Section 207, as revised, with the city, state or govern agencies approving the subgrade before paving.
- All fill materials shall be formed from soil free of deleterious material. Prior to placement of fill a sample of the proposed fill material should be submitted to the soils Engineer for his approval.
- All fill material in areas outside of building and pavement areas shall be compacted lightly and protected from erosion by one or more of the methods of item O, areas for building and pavement construction shall not be used until the material placed in the location and fill shall be compacted to 95% Standard Proctor. These areas shall be determined by the Developer's representative.

F. SANITARY SEWERS

1. GENERAL

- Current Town of New Palestine sanitary notes, general notes, and sewer details shall prevail as to materials and methods of construction.
- The contractor shall be responsible for obtaining or verifying all permits for all of portions of this project prior to starting construction.
- Sanitary sewers shall be installed in accordance with the Indian Department of Environmental Management (Division of Water Management).
- None of the sanitary sewers are to be constructed until a letter of approval from the Department of Environmental Management has been received by the Engineer. The Engineer will then contact the Developer or Contractor of the said approval.

2. GRAVITY SANITARY SEWERS

- The Department of public works currently allows the use of the following pipe materials meeting or exceeding the minimum requirements/specifications set forth herein for the construction of gravity sanitary sewers:
 - Polyvinyl Chloride Pipe (PVC)
 - Ductile Iron Pipe (DIP)
 - Vitrified Clay Pipe (VCP) is NOT an approved material for the construction of sanitary sewers.

F. (CONTINUED)

- In general, all gravity sanitary sewer pipe shall be the bell and spigot type with elastomeric seal joints and interior walls meeting or exceeding all requirements set forth in the latest ASTM standard reference herein.
 - The DEPARTMENT DOES NOT ALLOW THE USE OF SOLVENT CEMENT JOINT FOR GRAVITY SANITARY SEWERS EIGHT (8) INCHES IN DIAMETER OR LARGER.
 - Each length of pipe shall be marked per the requirements of the respective ASTM Standards.
3. GRAVITY SANITARY SEWERS MATERIALS
- Polyvinyl Chloride Pipe
 - Pipe: Polyvinyl Chloride (PVC) gravity sanitary sewer pipe shall be the integral wall bell and spigot type with elastomeric seal joints and smooth interior walls meeting or exceeding all the requirements set forth on ASTM F-679 for pipe diameters greater than 15 inches.
 - For diameters 15 inches or less, the pipe shall have a minimum cell classification of 12454-B or 12454-C and for diameters greater than 15 inches, the pipe shall have a minimum tensile strength of 3450 MPA as defined in ASTM D-1784.
 - PVC sanitary sewer pipe shall have a minimum stiffness of 46 PSI for each diameter when measured at 5% vertical ring deflection and tested in accordance with ASTM D-2412.
 - Polyvinyl Chloride (PVC) ribbed sewer pipe meeting or exceeding requirements set forth in ASTM F-949-86a or ASTM F-994 is acceptable. The minimum cell classification acceptable shall be 12454-B or 12454-C as defined in ASTM D-1784. PVC ribbed sewer pipe shall have a minimum pipe stiffness of 50 psi when measured in accordance with ASTM D-2412.
 - Design: The minimum wall thickness for PVC sewer pipe and lateral sewer pipe 15- inches or less in diameter shall conform to SDR-35 type PSM as specified in ASTM D-3034. The minimum wall thickness for PVC sewer pipe greater than 15- inches in diameter shall conform to T-1 as specified in ASTM F-679.
 - Marking: the date of manufacture, class of pipe, specification destination, size of pipe, name or trademark of manufacturer, and identification of plant location shall be legible marked on the outside of each pipe section in accordance with the ASTM D-3034.
 - Certification: The contractor upon request shall furnish the Department with manufacturer's certification stating that the pipe meets or exceeds all requirements of the applicable ASTM standards and these standards.

a. Joints

- Flexible gasketed joints shall be compression type so that when assembled, the gasket inside the bell will be compressed into the pipe spigot to form a watertight seal. The assembly of joints shall be in accordance with pipe manufacturer's recommendations and conditions likely to be imposed by this service. The gasket shall conform to the requirements of ASTM F-477.
 - NO SOLVENT CEMENT JOINTS SHALL BE ALLOWED.
- b. Fittings
- Only manufactured fittings made of PVC plastic having a cell classification of 12454-B or 12454-C as defined in ASTM D-1784 shall be used.
 - Saddle connections shall not be allowed for new construction.

b. DUCTILE IRON PIPE

- Material: Ductile iron pipe in diameters from eight (8) inches through thirty six inches (36) shall be centrifugally cast and shall conform to ANSI Specifications A-21.51 and AWWA C-151 latest revision. Ductile iron pipe shall be class 50, 51, 52 or 54 wall thickness dependent upon site conditions and provided in minimum laying lengths of eighteen (18) feet. Ductile iron pipe larger than thirty six (36) feet in diameter shall be approved on a case by case basis by the department.
- Fittings: Fittings shall be standardized for type the pipe of pipe and joint specified and shall comply with ANSI A-21.10, AWWA C-110.
- Joints: Mechanical joints, slip or flanged joints shall be provided.
- Weights and Marking: Weights of pipe fittings shall conform strictly to requirements of ANSI Specifications. The class designations for the various classes of pipe and fittings shall be cast onto fittings in raised numerals, and cast or stamped on the outside of each joint of pipe. Weights shall be plainly and conspicuously painted in white on the outside of each joint of pipe and each fitting after the exterior coating has hardened.

4. Bedding and Backfill-Sanitary Sewers

- The following section provides the minimum requirements for the bedding of pipe and the backfilling of the trench.

a. Bedding-Sanitary Sewers

- Trenching where the bottom of the trench is of undesirable material, an additional six(6) inches of trench bottom shall be excavated and a stable foundation shall be constructed using compacted No. 2 crushed stone.
- All sanitary sewer pipe shall be laid to the lines and grade shown on the approved design plans unless otherwise approved by the department.
- Bedding material shall be compacted No. 8 crushed stone or No. 8 fractured face aggregate and shall be placed the trench bottom such that after the pipe has been in placed thereon, immediately to grade and aligned, there remains a 4-inch minimum depth of material below the pipe barrel and a minimum of 3-inches below the bell.
- The bell holes shall be excavated so that the entire pipe barred rests on the bedding. The following presents the bedding requirements for each pipe classification:
 - Flexible Pipe: PVC Pipe
 - No. 8 crushed stone or No. 8 fractured face aggregate shall be placed around the sides of the pipe up to the sides of the pipe to the outside(1/2 the outside diameter). The material shall be shovely sliced or otherwise carefully placed and "walked" or hand tamped in to ensure compaction of the haunch area and complete filling of all voids. From the springtime to twelve(12) inches above the crown of the pipe, bedding shall be added in six(6) lifts "walked" in for compaction. Backfilling of the remainder of the trench shall be as specified in the section
 - Semi-Rigid Pipe: Ductile Iron Pipe
 - No. 8 crushed stone or No. 8 fractured face aggregate shall be placed around the sides of the pipe up to the springline (1/2 the outside diameter). This material shall be shovely sliced or otherwise carefully place and "walked" or hand tamped in to ensure compaction of the haunch area and complete filling of all voids.
 - From springline to six(6) inches, of 1/2 the outside diameter above the top of the pipe, whichever is larger, bedding shall be added in six(6) inch lifts "walked" in for compaction.
 - Backfilling of the remainder of the trench shall be a specified later in the section.

d. Backfilling Sanitary Sewers

1. Backfill Materials

- The following materials shall be used to backfill the trenches in accordance with and in the manner indicated by the requirements specified herein:
 - Polyvinyl Chloride Pipe (PVC)
 - Ductile Iron Pipe (DIP)
 - Vitrified Clay Pipe (VCP) is NOT an approved material for the construction of sanitary sewers.

F. (CONTINUED)

- Class 1 Angular, six(6) to forty(40) millimeters(1/4 to 1 1/2 inch) graded crushed stone
- Class 2 Course sands and gravel with maximum particle size forth (40) millimeters (1 1/2 inch), including variously graded sands and gravel containing small percentage of fines, generally granular and non-cohesive, either wet or dry. Soil types GM, GP, SW and SP are included in this class.
- Class 3 Fine sand and clay gravel, including fine sands, sand-clay mixtures and gravel-clay mixtures. Soil types GM, GC, SM and SC are included in this class.
- Class 4 Silt, silt clays and clays, including silts of medium to high plasticity and liquid limits. Soil types MH, ML, CH, and CL are included in this class. These materials are not recommended for bedding.
- Backfill Around Pipe (bedding): Bedding and backfill materials shall be done upon prior to construction by the Engineer and the Contractor. Sample will be obtained and kept at the Engineer's office. No significant deviation from this material will be permitted for use without authorization by the Engineer and the Department.
- The term "select fill" shall mean the use of Class 2 or 3 backfill materials as described above.

e. Areas Subject to Vehicular Traffic

- In areas under proposed or existing paved roads or within five feet of pavement, sidewalks, curbs, gutters or similar structures, granular backfill material complying with the requirements of the Indiana Department of Transportation Standard Specifications, latest Edition, as revised, shall be used.
- The material shall be placed in uniform layers not six(6) inches, loose measurement with Sanin or heeling the pipe sanitary sewer pipe the backfill material shall be thoroughly and uniformly compacted with hand held mechanical tampers. The remaining backfill material shall be compacted with mechanical tampers. A minimum compaction of 95% percent Standard Proctor Density shall be achieved within the backfill material.
- Jetting or flooding of the backfill or other alternative compaction methods and materials shall not be used without the approval of the city Department of Sanitation or Indiana Department of Transportation, dependent upon jurisdictional authority.

5. Workmanship

a. Laying of Pipe in Cold Weather

- The Engineer reserves the right to order pipe installation discontinued whenever, in his opinion, there is danger of the quality of work being impaired because of cold weather. The Contractor shall be responsible for heating the pipe jointing material so as to prevent freezing of joints.
 - Do not lay any pipe on frozen ground. No flexible or semi-rigid pipe shall be laid when the air temperature is less than 32 F unless proper precautions per the manufacturer's recommendations are taken by the Contractor and the method is approved by the Engineer and Department.
 - When pipes with rubber gaskets or resilient-type are to be laid in cold weather, sufficiently warm the gasket or joint material so as to facilitate making a proper joint.
- b. Abandoned Sewers
- Sewers and storm water drains which are to be abandoned shall be bulkheaded with mortar and an eight(8) inch thick brick wall. Sewers, storm water drains, and sewer structures which are to be abandoned in place shall be filled with Sand or Cellular Concrete and plugged, unless otherwise indicated on the Plans.
 - Service shall be maintained in such sewers and drains until the department shall order bulkheads placed. No timber bulkheads shall be allowed. All castings on such abandoned structures are the property of the Department and shall be salvaged by the Contractor and delivered as directed. Unless otherwise specified, all abandoned manholes, catch basins, and inlets shall be removed to a depth of three(3) feet below the proposed or established grade or existing street grade, whichever is lower.
- c. Dewatering and Control of Surface Water:

- Where groundwater is encountered, the Contractor shall make every effort necessary to secure a dry trench bottom before laying pipe. The Contractor shall provide, install and operate sufficient trenches, sumps, pumps, hose, piping, wellpoints, etc., necessary to depress and maintain the groundwater level below the base of the excavation. If the Contractor is unable to remove the standing water in the trench, the Contractor shall over-excavate the proposed bottom grade of the sewer beddings and place not less than three(3) inches of class No. 2 crushed stone (Indiana Department of Transportation aggregate classification) in the over-excavated area.
- The Contractor and/or Owner shall be liable for all lawsuits which may arise as a result of the Contractor's dewatering efforts.
- The Contractor shall keep the site free of surface water at all times and shall install drainage ditches, dikes, pumps and perform any other work necessary to divert or remove rainfall and other accumulation of surface water and/or groundwater shall be performed in a manner which will prevent the accumulation of water within the construction area.
- UNDER NO CIRCUMSTANCES SHALL SURFACE WATER AND/OR GROUNDWATER BE DISCHARGED TO, DISPOSED OF OR ALLOWED TO FLOW INTO THE CITY'S SANITARY SEWER SYSTEM.

d. Trenching

- The width of the trench at and below the top of the sanitary sewer shall be only as wide as is necessary for proper installation and backfilling, and consistent with safety requirements. The minimum width of trench for sanitary sewers, including force mains, 42-inches in diameter and less shall be 1.25 times the outside diameter (O.D.) plus 12-inches:

Minimum Trench Width (inches)= 1.25 (O.D.)+12
- The minimum trench width for sanitary sewers larger than 42-inches in diameter shall be determined on a case by case basis by the Engineer and approved by the department.
- The design plans and specifications submitted to the department for review approval and issuance of a construction permit shall include a detailed trench drawing.
- The design of the sewer pipe and structures is predicated upon the width of trench indicated above and, should these limits be exceeded, the Contractor shall be responsible for the provision and installation of such remedial measures as may be required by the Engineer and/or the Department.
- Bell holes shall be excavated for bell and spigot pipe mechanical joint pipe, so that the entire barrel of the pipe shall rest on the bedding.
- The pipe trench shall not be excavated more than one hundred(100) feet in advance of pipe laying.
- Whenever pipe trenches are excavated below the designed bedding bottom, the Contractor shall fill the over-excavated with mechanically compacted No. 8 (1/4) inch to 3/4 inch crushed stone or No. 8 fractured face aggregate.
- All rock, boulders and stones 6-inches in diameter and larger encountered in trenches shall be removed.
- Boulders or rocks are not to be used for trench backfill.
- In cases where material is deposited along open trenches, the material shall be placed so that no damage will result to the work or adjacent property as a result of rain or other surface wash.

F. (CONTINUED)

- If the bottom of the trench is of undesirable material, an additional six(6) inches of trench bottom shall be excavated and filled with Class 2 crushed stone and compacted using a hand held mechanical tamper. Where the distance to stable ground is excessive, the Engineer shall order in written other type of foundation as he deems necessary subject to the approval of the Department.
 - Remove any rock(s) encountered within six(6) inches below the barred surface of the pipe, replace with No. 8 crushed stone or No. 8 fractured face aggregate and compact.
- e. Trench Box Pulling and Sheeting
- When required by the Occupational Safety and Health Act (OSHA) to protect life, property, or the work, sheet and brace all open cut trenches in accordance with CFR 1926. Upon completion of the work, all temporary forms, shores, and bracing shall be removed. All voidances or voids in the sheeting while being withdrawn, shall be carefully filled with bedding material.
 - The Contractor shall employ adequate safeguards to prevent movement of the pipe joint. If any movement should occur, the Contractor shall reinstall the pipe.
 - Any damage to pavement or other structures due to sheeting, shoring, or bracing shall be repaired by the Contractor at his own expense.
 - Sheeting and bracing which is to remain place shall be cut off at the elevation of 1.5 feet above the top of the sewer pipe.

f. Line and Grade

- The Contractor shall furnish and set all line and grade stakes (HUB) and stakes for bench marks. The bench marks shall be set in strategic locations of the project in order to facilitate the contractor's installation of all line and grade stakes (HUB) for each pipeline. Only the laser method shall be used to set the grade of the pipeline. Any other method must first be approved in writing by the Department. The Contractor shall constantly check line and grade of the laser beam and the pipe.
- Installation of Sanitary Sewers: Suitable tools and equipment shall be used for the safe and convenient handling and laying of pipe. Great care shall be taken to prevent pipe coating or exceeds oil requirements and damaged. Carefully examine all pipe for cracks and other defects.
- No pipe or fittings shall be laid which are know to be defective. If pipe or fittings are discovered to be cracked, broken or defective after being laid, they shall be removed and replaced with ground material.
- Thoroughly clean all pipe and fittings before installation. All pipe and appearances should be kept clean until accepted and completed work.
- All field-cutting shall be done in a neat, trim manner using a hand or power saw and the cut end shall be beveled using a file or wheel to produce a smooth bevel of approximately 15 degrees and be a minimum depth of one third the pipe wall thickness. Field cut pipe will only be allowed to be installed at manholes, at prefabricated trees and wyes, and at the connection of new sanitary sewer to existing sanitary sewer.
- NOTE: Only smooth exterior pipe shall be used at manhole connections.

g. Point of Commencement and Direction of Laying

- The point of commencement for laying of sewer pipe shall be the lowest point in the proposed sewer line of the pipe with the bell end of bell and spigot pipe or with the receiving groove end of tongue and groove pipe pointing upgrade. Any other procedure shall be followed only with permission of the Department.
 - Lay each pipe on an even firm bed as specified so that no uneven extray or uneven part of the pipe. Particular care shall be exercised to prevent the pipes from bearing on the sockets. Dig all bell holes for bell and spigot pipe.
 - Completely show home all pipe (to the assembly mark.) On pipe of the tongue prove type thirty(30) inches and larger in diameter, pressure must be applied to the center of each pipe and the tension is laid by a winch and cable or other mechanical means.
 - All connection fittings shall be sealed with watertight stopper.
 - The Contractor shall extend the building wye lateral to the right-of-way and shall place a one(1) inch cast iron locator rod or magnetic locator tape above the end of the pipe to within three(3) feet of the ground surface. The purpose is to provide for case of location of the wye.
- h. Construction Bulkheads
- Before extending a sanitary sewer, the Contractor shall provide a watertight bulkhead in the existing sewer immediately upstream of the point of connection. This bulkhead shall be left in place until the new sanitary sewer has been cleaned of all accumulated water and debris and accepted by the Department.
 - During all intermissions in construction of the sanitary sewer pipe, the open face of the last pipe laid shall be plugged, covered or bulkheaded so as to prevent sand, water, earth or other materials from entering the pipe.
 - Whenever pipe and special castings are required to be cut, the cutting shall be by skilled workmen and in such manner as to leave a smooth end at right angles to the axis of the pipe without damage to the pipe coating or cement lining. CUTTING TORCHES SHALL NOT BE USED.

i. RELATIONSHIP TO WATER MAINS

- Horizontal Separation
 - Sewers shall be laid at least 10 feet (3.0 m) horizontally from any existing or proposed water main. The distance shall be measured edge to edge. In cases where it is not practical to maintain a ten foot separation, the appropriate reviewing agency may allow deviation on a case-by-case basis, if supported by data from the design engineer such deviation may allow installation of the sewer closest to the water main, provided that the water that the water main is in a separate trench or on an undisturbed earth shelf located on one side of the sewer and at an elevation so the bottom of the water main is at least 18 inches (46 cm) above the top of the sewer.
- Crossings
 - Sewer crossing water mains shall be laid to provide a minimum vertical distance of 18 inches (46 cm) between the outside of the water main and the outside of the sewer. This shall be the case where water main is either above or below the sewer. The crossing shall be arranged so that the sewer joints will be equidistant and as far as possible from the water main joints. Where a water main crosses under a sewer, adequate structural support shall be provided for the sewer to prevent damage to the water main.
- Special Conditions
 - when it is impossible to obtain proper horizontal and vertical separation is stipulated above, the sewer shall be designed and ce designed and ce designed and ce shall be pressure tested to assure watertightness prior to backfilling.
- Testing Gravity Sanitary Sewers
 - General
 - The contractor shall bear the complete cost and supply all equipment necessary to perform the test required.
 - All test shall be conducted under the observation of the Department's Observer. It shall be the Contractor's responsibility to schedule testing with the Observer.
 - Certifications: The Contractor upon request shall furnish the department with certified reports stating that inspection and specified test have been made and that the results thereof comply with the applicable ANSI Specifications and these standards for each.

F. (CONTINUED)

- Infiltration/Exfiltration Test
 - Once constructed, all sanitary sewers and manholes shall be tested for leakage. The rate of infiltration into the sanitary sewer system between any two adjacent manholes or the entire system shall not be in excess of 100 gallons per inch of pipe diameter per mile per day (100 gal/in/mi). The Contractor shall be required to repair all visible leaks to satisfaction of the Department, even if the infiltration requirements are met.
 - Any leakage found during the infiltration test shall be corrected by the Contractor at his expense. The method of repair shall be per the approval of the Department. However, grouting of the joint or crack to repair the leakage shall not be permitted. If the defective portion of the sanitary sewer cannot be located, the Contractor shall remove and reconstruct as much of the work as is necessary to obtain a system that passes infiltration requirements.
- Deflection Test
 - All gravity sanitary sewers constructed of flexible pipe (PVC) shall be mandrel tested no sooner than thirty (30) days after installation. The deflection limit is 5% of the inside diameter of the pipe. Mandrel must be pulled through by hand with no mechanical device. Any failed section of pipe shall be reinstalled by the Contractor at no cost to the owner.
 - Low Pressure Air Test (Gravity Sewer)
 - All gravity sanitary sewers shall be tested for infiltration by means of a low pressure air test. A minimum of 5 p.s.i. must be maintained in the pipe for a period of no less than 5 minutes

REVISION

Job No. 26017	Date Stamped 09/04/2026	
Drawn By caw	Checked By tab	Scale:

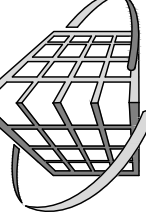
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SHEET TITLE:

C700

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General Sitework Notes