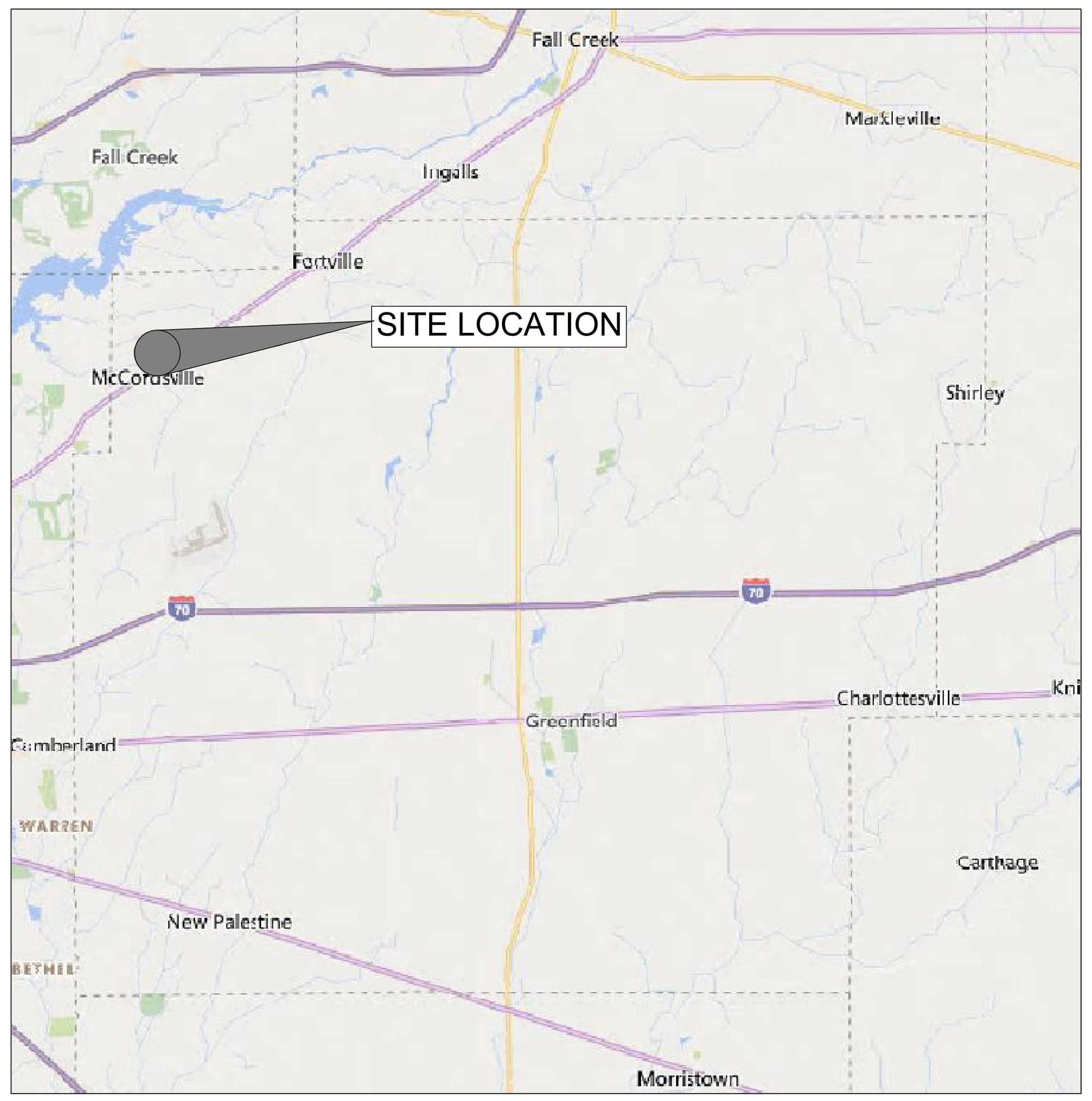
CONSTRUCTION PLANS FOR:
GREEN TOUCH
MCCORDSVILLE
6312 RAILROAD ST
TOWN OF MCCORDSVILLE, HANCOCK COUNTY, INDIANA
NE $\frac{1}{4}$, SECTION 26, TOWNSHIP 17N, RANGE 5E



COUNTY LOCATION MAP

NOT TO SCALE

SITE VICINITY & ZONING MAP

NOT TO SCALE

PLANS PREPARED FOR:

MACDOUGALL PIERCE CONSTRUCTION
12720 FORD DRIVE
FISHERS, IN 46038
Contact Person: ROB WOODCOCK
317-596-6371
RWOODCOCK@MACDOUGALLPIERCE.COM

OPERATING AUTHORITIES:

Town of Mccordsville Engineering
6280 W 800 N
McCordsville, IN 46055
(317) 335-3604

Town of Mccordsville Planning
6280 W 800 N
McCordsville, IN 46055
(317) 335-3604

Town of Mccordsville Stormwater
6280 W 800 N
McCordsville, IN 46055
(317) 335-3493

Town of Mccordsville Streets
6280 W 800 N
McCordsville, IN 46055
(317) 335-3493

Town of Mccordsville Water and Wastewater
6280 W 800 N
McCordsville, IN 46055
(317) 335-1044

Hancock County Surveyor
111 American Legion Place, Suite 171
Hancock County Annex
Greenfield, IN 46140
317-477-1150

Hancock County Soil and Water Conservation District
1101 W Main St N. Greenfield, IN 46140
317-462-2283

Vectren Energy - Gas
16000 Allisonville Road
Noblesville, IN 46061
317-776-5560

Ninestar Connect - Electric and Fiber Optic
2243 E Main St.
Greenfield, IN 46140
317-326-3131

GENERAL NOTES:

1. THE CONSTRUCTION PLANS SHALL GOVERN OVER ANY OTHER FORM OF MEDIA, WHICH INCLUDES DIGITAL FILES OF THIS PROJECT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING OR VERIFYING THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY, STATE & FEDERAL AGENCIES PRIOR TO STARTING CONSTRUCTION.
3. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINATE THE EXACT LOCATION OF ALL EXISTING UTILITIES IN THE VICINITY OF THE CONSTRUCTION AREA PRIOR TO STARTING CONSTRUCTION. ONCE ALL UTILITIES HAVE BEEN LOCATED, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN IN SERVICE ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION UNLESS OTHERWISE INDICATED IN THE CONSTRUCTION DRAWINGS.
4. BEFORE WORKING WITH OR AROUND EXISTING UTILITIES, THE APPLICABLE UTILITY COMPANY SHALL BE CONTACTED BY THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY AND COORDINATE CONSTRUCTION WITH ALL RESPECTIVE UTILITIES.
5. ALL CONSTRUCTION METHODS AND MATERIALS MUST CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS FOR THE GOVERNING MUNICIPALITY REQUIREMENTS.
6. MAINTENANCE OF TRAFFIC NEEDED FOR THIS PROJECT SHALL BE INSTALLED AND MAINTAINED PER INDOT SPECIFICATIONS / STANDARD DRAWINGS, INDOT DESIGN MANUAL, AND THE INDIANA MUTCD MANUAL, ALONG WITH GOVERNING MUNICIPALITY REQUIREMENTS. COORDINATE WITH THE ENGINEER.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS AND SHALL VERIFY ALL DIMENSIONS ON THE SITE PRIOR TO START OF CONSTRUCTION. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
8. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER AND CONTRACTOR TO MAINTAIN QUALITY CONTROL THROUGHOUT THIS PROJECT.
9. ALL GRADES AT THE BOUNDARY SHALL MEET EXISTING GRADES.
10. NO WORK SHALL BE CONSTRUCTED OFFSITE UNLESS SHOWN OR DENOTED OTHERWISE WITHIN THESE PLANS.
11. NO CONSTRUCTION WORK SHALL BE PERFORMED WITHIN THE ADJACENT OR ONSITE WATER TRIBUTARIES / WATERCOURSES UNLESS SHOWN AND DENOTED AS SUCH OTHERWISE WITHIN THESE PLANS.
12. CONTRACTOR SHALL MINIMIZE DAMAGE TO ANY EXISTING TREES UNLESS NOTED OTHERWISE.
13. ALL CONSTRUCTION ACTIVITY ON THIS SITE IS TO PERFORMED IN COMPLIANCE WITH ALL APPLICABLE O.S.H.A. STANDARDS FOR WORKERS SAFETY.
14. BEARINGS, DIMENSIONS, AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY. SEE RECORD SURVEYS AND PLATS FOR EXACT INFORMATION.

SITE DATA:

TOTAL SITE ACREAGE - 2.4 AC.
TOTAL ACREAGE OF DISTURBANCE - 1.5 AC.
GROSS SQUARE FOOTAGE OF BUILDING - 7,200 S.F.

PROPOSED CONSTRUCTION START - JUNE 1, 2024
PROPOSED CONSTRUCTION END - NOVEMBER 30, 2024
WORK IS SCHEDULED TO BE COMPLETED IN ONE CONTINUOUS CONSTRUCTION PHASE.

SURVEY CONTROL AND VERTICAL DATUM (BENCHMARK) INFORMATION:

- SURVEY CONTROL BY OTHERS: FRITZ ENGINEERING SERVICES, LLC (SEE ATTACHED SURVEYS FOR ADDITIONAL INFORMATION)
- HORIZONTAL DATUM: NAD83
- COORDINATE SYSTEM / BASIS OF BEARING: INDIANA STATE PLANE EAST
- VERTICAL DATUM: NAVD88
- PUBLISHED / CHECK-IN BENCHMARK: SEE SURVEY
- ORTHOMETRIC HEIGHT (ELEVATION) = SEE SURVEY

SPECIFICATIONS:

1. ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE MCCORDSVILLE STANDARDS, DETAILS, AND SPECIFICATIONS (STANDARDS), LATEST EDITIONS, UNLESS SPECIFICALLY NOTED OTHERWISE.
2. INDIANA STATE DEPARTMENT OF TRANSPORTATION (INDOT) STANDARD DRAWINGS AND SPECIFICATIONS, LATEST EDITIONS, SHALL BE INCORPORATED INTO AND UTILIZED WITH THESE PLANS (SUPPLEMENTAL SPECIFICATIONS AND DETAILS).
3. CITIZENS WATER STANDARDS, DETAILS, AND SPECIFICATIONS, LATEST EDITIONS, SHALL BE INCORPORATED INTO AND UTILIZED WITH THESE PLANS AS IT PERTAINS TO WATER LINE CONSTRUCTION.
4. CITIZENS AND MT VERNON TWP. FIRE DEPARTMENT STANDARDS, DETAILS AND SPECIFICATIONS SHALL BE UTILIZED FOR ALL ALL FIRE PROTECTION WATER LINES AND APPURTENANCE CONSTRUCTION AS IT RELATES TO THIS PROJECT.

3\. MCCORDSVILLE SANITARY SEWER STANDARDS, DETAILS, AND SPECIFICATIONS, LATEST EDITIONS, SHALL BE INCORPORATED INTO AND UTILIZED WITH THESE PLANS AS IT PERTAINS TO SANITARY MAINS AND LATERAL CONSTRUCTION.

4\. THE INDIANA MUTCD MANUAL, LATEST EDITION, SHALL BE INCORPORATED INTO AND UTILIZED WITH THESE PLANS.

MAINTENANCE OF TRAFFIC (MOT) NOTES:

ALL MAINTENANCE OF TRAFFIC SHALL BE DESIGNED TO, FOLLOW, AND BE INSTALLED PER THE INDIANA MUTCD MANUAL, INDIANA DEPARTMENT OF TRANSPORTATION (INDOT) SPECIFICATIONS AND STANDARD DRAWINGS, AND INDOT DESIGN MANUAL.

SIGNS & PAVEMENT MARKING NOTES:

ALL SIGNS AND PAVEMENT MARKINGS AND STRIPING SHALL MEET THE CURRENT EDITION OF THE INDIANA MUTCD MANUAL, TRAFFIC CONTROL FOR BICYCLE FACILITIES, AND INDOT STANDARD DRAWINGS AND SPECIFICATIONS AND SHALL BE INSTALLED PER THE INDIANA MUTCD MANUAL, INDIANA DEPARTMENT OF TRANSPORTATION (INDOT) SPECIFICATIONS AND STANDARD DRAWINGS, AND INDOT DESIGN MANUAL.

SHEET LIST TABLE

STORMWATER INFRASTRUCTURE SUMMARY TABLE (PRIVATE)

DESCRIPTION	QUANTITY	UNITS
12" HDPE	308	LF
30"X30" BOX INLET	2	EACH
OUTLET CONTROL STRUCTURE	1	EACH
FLARED END SECTION	3	EACH
NEW STORMWATER QUALITY MEASURE	NORTHING COORDINATE	EASTING COORDINATE
DETENTION BASIN	16#####.##	22####.##

QUANTITIES NOTE:

ANY AND ALL QUANTITY TABLES, NOTES OR VALUES AS SHOWN ON THESE PLANS ARE FOR REFERENCE ONLY. THE PLANS, DETAILS, AND SPECIFICATIONS GOVERN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE ENTIRE CONSTRUCTION SET AND DETERMINE ALL THE FINAL QUANTITIES FOR ALL NECESSARY ITEMS REQUIRED TO COMPLETE THIS PROJECT. THE OWNER OR THE ENGINEER WILL NOT BE HELD LIABLE OR RESPONSIBLE FOR ESTIMATES NOT CONFIRMED BY THE CONTRACTORS. THE CONTRACTOR SHALL VERIFY ALL QUANTITIES PRIOR TO BIDDING AND CONSTRUCTION. IF DISCREPANCIES ARE FOUND, CONTACT THE ENGINEER IMMEDIATELY.

FRITZ
ENGINEERING SERVICES
14020 MISSISSINEWA DRIVE
CARMEL, INDIANA 46033
P: 317.324.8695 F: 317.324.8717
www.Fritz-Eng.com

PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS AND ISSUES	DATE	BY
---	---	---

GENERAL NOTES / LEGEND:

"IT'S THE LAW"
811
Know what's below.
Call before you dig.
2 WORKING DAYS BEFORE YOU DIG.

PROJECT:
Green Touch Services
GREEN TOUCH
MCCORDSVILLE

PROJECT LOCATION:
6312 RAILROAD ST
MCCORDSVILLE, INDIANA 46055
HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE:
NE $\frac{1}{4}$, S26, T17N, R5E

CLIENT:
MacDOUGALL PIERCE CONSTRUCTION
12720 FORD DRIVE
FISHERS, IN 46038

PLAN DATE: 3/8/2024

DESIGN: AF | CHECK: AF | DRAWN: KG

PROJECT NO. 2308005

SHEET NAME: **COVER SHEET**

SHEET NO. **C100**

Soil Map—Hancock County, Indiana

Map Scale: 1:870 if printed on A landscape (11" x 8.5") sheet.

Meters: 0, 10, 20, 40, 60
Feet: 0, 40, 80, 160, 240

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 16N WGS84

Map Unit Legend

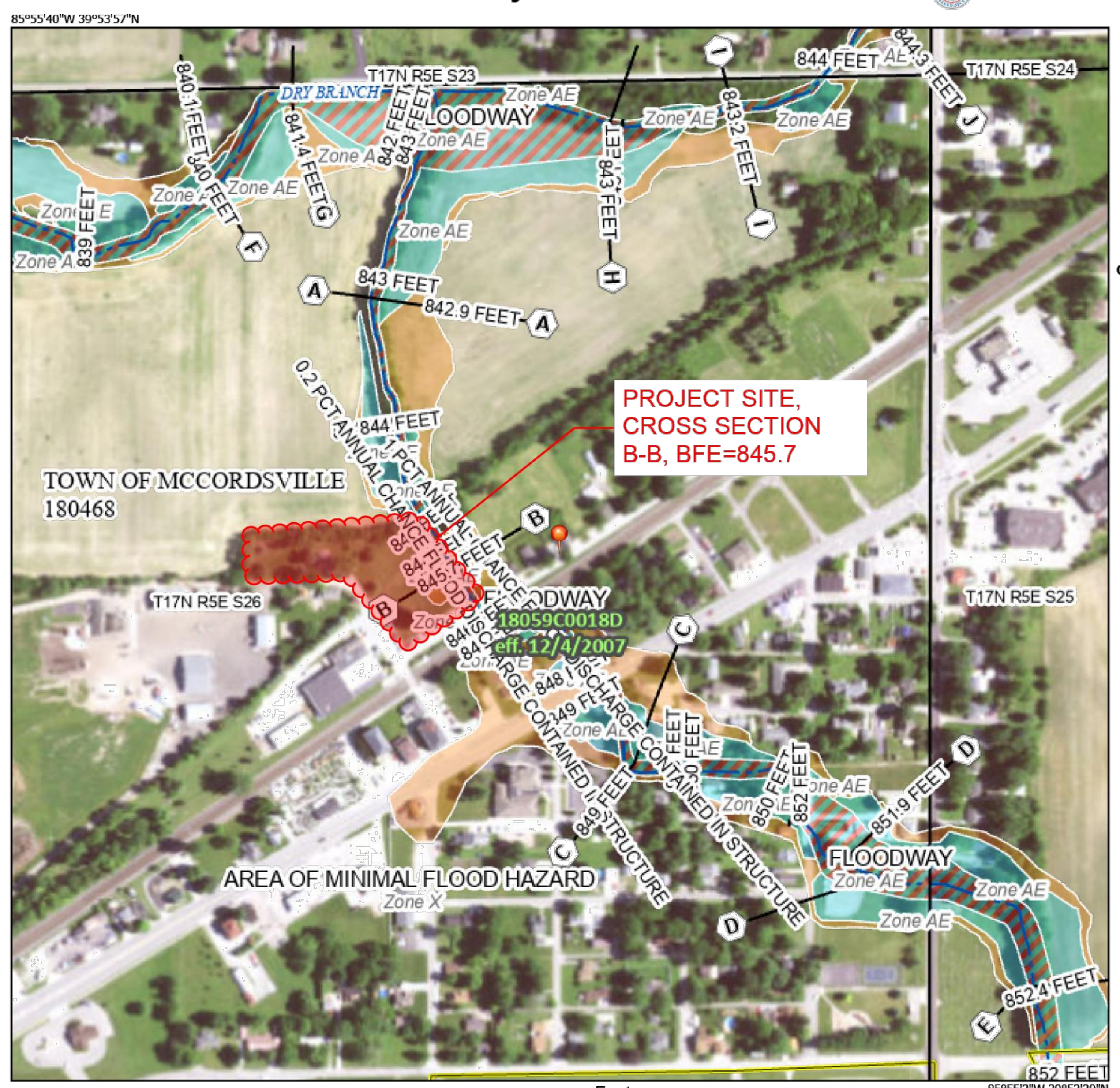
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Br	Brookston silty clay loam, 0 to 2 percent slopes	0.0	0.2%
MpC3	Miami complex, 6 to 12 percent slopes, severely eroded	0.0	2.9%
YbvA	Brookston silty clay loam-Urban land complex, 0 to 2 percent slopes	0.6	33.6%
YcuA	Crosby silt loam-Urban land complex, 0 to 2 percent slopes	1.0	59.3%
YmcC3	Miami-Urban land complex, 6 to 12 percent slopes, severely eroded	0.1	3.9%
Totals for Area of Interest		**1.7**	**100.0%**

SOILS MAP AND INFORMATION

National Flood Hazard Layer FIRMette

FEMA

85°55'40"W 39°53'57"N



85°55'3"W 39°53'30"N

Feet: 0, 250, 500, 1,000, 1,500, 2,000 1:6,000

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS	Without Base Flood Elevation (BFE) *Zone A, V, A99*; With BFE or Depth *Zone AE, AO, AH, VE, AR*; Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD	0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*; Future Conditions 1% Annual Chance Flood Hazard *Zone X*; Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*; Area with Flood Risk due to Levee *Zone D*
OTHER AREAS	NO SCREEN Area of Minimal Flood Hazard *Zone X*; Effective LOMRs; Area of Undetermined Flood Hazard *Zone D*
GENERAL STRUCTURES	Channel, Culvert, or Storm Sewer; Levee, Dike, or Floodwall
OTHER FEATURES	20.2 / 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation; Coastal Transect; 513 Base Flood Elevation Line (BFE); Limit of Study; Jurisdiction Boundary; Coastal Transect Baseline; Profile Baseline; Hydrographic Feature
MAP PANELS	Digital Data Available; No Digital Data Available; Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/9/2023 at 1:05 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

FLOOD ZONE:

THE PROJECT SITE IS LOCATED WITHIN THE FEMA COMMUNITY PANEL MAP NO. 18059C0018D WITH AN EFFECTIVE DATE OF 12/4/2007. REVIEW OF THE MAP INDICATES THE SITE IS LOCATED WITHIN THE FLOOD DESIGNATION 'ZONE AE' (SHADED), "AREAS DETERMINED TO BE INSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN".

FLOOD MAP & FLOOD ZONE INFORMATION

DEMOLITION NOTES:

1. It shall be the responsibility of the contractor to remove any materials and/or structures not located on this survey.
2. It shall be the responsibility of the contractor to verify all existing utilities and their locations pertaining to their phase of work, and to verify which utilities will be removed by the utility company. Any and all utilities not removed by the utility company shall be removed by the contractor.
3. Utility locations shown are approximate and shall be relocated and/or capped at the Right-Of-Way line and abandoned before construction at no additional cost to the owner.
4. The owner gets the first right of salvage.
5. All demolition material not being salvage shall be properly disposed of offsite by the contractor.
6. The contractor shall obtain all demolition permits required by the local and state agencies.
7. The contractor shall maintain streets and shared drives free and clear of sediment and debris.
8. The contractor is responsible for the protection of all existing utility lines unless otherwise stated.
9. Contractor shall coordinate all temporary shut down of existing utility services with the appropriate utility department, owner, authority, etc.
10. Contractor shall coordinate any necessary street or drive closures required.

SITE/LAYOUT NOTES:

1. See architectural plans for all building dimensions. Any dimensions shown herein shall be considered conceptual.
2. All dimensions are to edge of pavement or face of curb, unless noted otherwise.
3. All dimensions are to face of brick or facing material, unless noted otherwise.
4. All parking area stripes are to be 4 inch white paint. Handicapped parking areas and access aisles shall be 4 inch blue paint.
5. Provide smooth transitions from new areas to existing features as appropriate.
6. The edge of existing asphalt pavement shall be properly sealed with a tack coat material in all areas where new asphalt pavement is indicated to join existing pavement.
7. Provide chamfer ends at curbs.
8. Verify sign locations & sign requirements with local governing municipality. Signs shall meet Indiana MUTCD Manual and specifications.

GRADING NOTES:

1. Earthwork & grading shall not start until erosion control measures have been properly installed.
2. Occupational safety and health administration (OSHA) standards for excavations; Final Rule 29 CFR Part 1926, subpart "P" applies to all excavations exceeding five (5) feet in depth.
3. Provide positive drainage that assures no ponding in all areas. After installation, contractor to test for, and correct, if any, standing water conditions are present.
4. All proposed spot elevations are the final pavement and grade elevations. See appropriate details and specifications to determine the subgrade elevations below finish grade elevations for construction.
5. All sanitary manholes in non-paved areas shall be 3" above grade.
6. The maximum slope to be used in non-paved areas shall be 3:1 unless specifically noted otherwise.
7. Minimum swale slopes are 1.0% unless noted or graded otherwise.
8. All A.D.A. parking spaces & access aisles shall be level with surface slopes not to exceed 2% (1:50) in any direction as which to comply with A.D.A requirements.
9. ADA sidewalk ramps shall meet ADA requirements and INDOT standard drawings and specifications.
10. All sidewalks cross slopes shall not exceed 2% (1:50) unless noted otherwise.
11. Provide smooth transitions from new areas to existing features as appropriate.
12. All grades shall match existing grades at the project property lines / limits.

UTILITY NOTES:

1. The utilities indicated on these construction plans and on the survey may not be a compete inventory of all existing utilities currently on or near the site. The size and location of these utilities may be approximate. The engineer shall not be held liable for any inaccurate utility information indicated, or not indicated on this survey.
2. For viewing clarity of these construction plans, the pipes, structures, and appurtenances may not be drawn to scale.
3. Coordinate with Architect / M.E.P. and corresponding utility companies for exact size, type, and location for the electric, telephone, gas, fiber optic, and water line services. Utility service providers may require installation of onsite conduits. Contractor shall coordinate requirements for conduits including number, location, pull string, etc. with respective utility providers prior to bidding.
4. Location of the utility service connections into the buildings are approximate. See Architectural / M.E.P. plans for exact locations.
5. The contractor is responsible with coordinating with the utility companies for connection of the proposed utility lines for this project site.
6. Contractor shall coordinate final location of transformers and primary service to transformers with utility at time of service request. Contractor shall provide transformer pads as required by utility company.
7. The underdrains depicted on these plans for the storm structures located within the pavement are 10 liner feet minimum (unless specified otherwise within the plans) of 6 inch diameter perforated HDPE pipe. All underdrains shall maintain 18 inches of vertical and 10 feet of horizontal separation from all water and sanitary lines as measured from the outside of pipe walls.
8. Underdrains shall have a minimum slope of 1.0% and inverts shall be set a minimum of 6 inches above the outlet pipe, unless noted otherwise.
9. All storm HDPE pipe (except for underdrains or underground storage facilities) shall be N-12 (smooth walled) pipe, unless noted otherwise.
10. A minimum of 54 inches of cover over the entire water line shall be provided unless the water service utility company requires more stringent (deeper) specifications, and if so, the contractor shall meet those water company specifications.
9. All proposed water lines and sanitary lines / laterals shall have a minimum of 18 inches of vertical separation be maintained when crossing under or over each other, any other utilities, and storm sewer pipes and appurtenances.
10. All proposed water lines and sanitary lines / laterals shall have a minimum horizontal separation from pipe exterior to pipe exterior of 10 linear feet from each other and from storm sewers and appurtenances.
11. Full depth granular backfill required for all water lines, sanitary sewers, and storm sewers under and within 5 feet of pavement. / hardscapes.
12. All private hydrants shall have an isolation valve installed at the point of branching.
13. When connections are to be made to existing piping and structures, or where construction is in the vicinity of existing piping, structures, or appurtenances, the exact locations and elevations of the existing piping, structures and / or appurtenances shall be field verified onsite by the contractor prior to construction. If any discrepancies are found, then the engineer shall be notified immediately. Fritz Engineering Services, LLC shall not be responsible for any discrepancies that may arise between the plan information and actual field verified information as determined from any final onsite investigation from the contractor.

ABBREVIATIONS AND TERMS

IE / INV	= INVERT ELEVATION
BC	= BOTTOM OF CURB
TC	= TOP OF CURB
RIM	= RIM / TOP OF CASTING
GUT	= GUTTER
RCP	= REINFORCED CONCRETE PIPE
HDPE	= HIGH DENSITY POLYETHYLENE PIPE
SSD	= SUB-SURFACE DRAIN
UD	= UNDERDRAIN
MH	= MANHOLE
STR	= STRUCTURE
DE	= DRAINAGE EASEMENT
RD&UE	= REGULATED DRAIN AND UTILITY EASEMENT
D&UE	= DRAINAGE AND UTILITY EASEMENT
SD&UE	= SANITARY, DRAINAGE, AND UTILITY EASEMENT
W&UE	= WATER AND UTILITY EASEMENT
SE	= SANITARY EASEMENT
SAN	= SANITARY SEWER
HC	= HANDICAP RAMP
ME	= MATCH EXISTING
STM	= STORM SEWER
MPE	= MINIMUM PAD ELEVATION
NP	= NORMAL POOL
ELEV	= ELEVATION
TYP	= TYPICAL
PR	= PROPOSED
EX	= EXISTING
R	= RADIUS
B-B	= BACK TO BACK
ROW or R/W	= RIGHT OF WAY
LF	= LINEAR FEET

PROPOSED LEGEND

HYDRANT
VALVE
TEE
ADAPTER
BEND
FLH TEMP. FLUSH HYDRANT
BLOW-OFF
THRUST BLOCK
PLUG
REDUCER
M.J. SLEEVE
CROSS
WATER METER
PIV POST INDICATOR VALVE
FIRE CONNECTION
TRANSFORMER PAD
RELOCATED ELECTRIC/TELEPHONE POLE
SIGN
HANDICAP PARKING
CO CLEAN OUT
STORMTECH STORM CHAMBER
SEWER MANHOLE
STORM COMBINATION INLET
STORM GRATE INLET
STORM BEEHIVE/YARD DRAIN
STORM END SECTION
BMP/AQUA-SWIRL
STORM STRUCTURE NUMBER

FLOW LINE, PAVEMENT
FLOW LINE, SWALE (GRASS)
FD FOUNDATION DRAIN
TV CABLE TV LINE**
E ELECTRIC LINE**
FO FIBER OPTIC LINE
SUB-SURFACE DRAIN
UD STORM UNDERDRAIN
STORM SEWER
SANITARY SEWER
FM FORCE MAIN
G GAS LINE
T TELEPHONE LINE**
W / 8"W WATER LINE

**PREFIX FOR UTILITY LINES:
UG - UNDERGROUND
OH - OVERHEAD

FLOW ARROW
785 EXISTING CONTOURS
785 PROPOSED CONTOURS
FL:XXX.XX FLOW LINE ELEVATION
XXX.XX SPOT ELEVATION
XXX.XX H.P. HIGH POINT ELEVATION
XXX.XX L.P. LOW POINT ELEVATION
TC:XXX.XX BC:XXX.XX TOP/BOTTOM CURB ELEVATION
TW:XXX.XX BW:XXX.XX TOP/BOTTOM WALL ELEVATION
ME - MATCH EXISTING GRADE

F.E.S.TOPOGRAPHIC LEGEND

CONTOUR LINE
DRIP LINE
0 X | FENCES
FIELD DIVISION
GARDEN & LANDSCAPING
VEGETATION (HEDGE - BUSH - PLANT) ROW
WOODS/BRUSH LINE
WATERS EDGE AND FLOW LINE
WATER FLOW LINE / DITCH LINE
GUARDRAIL
RIPRAP
RAILROAD
ELECTRIC TRANSFORMER
OU OVERHEAD UTILITY
UE UNDERGROUND ELECTRIC
G UNDERGROUND GAS
UC UNDERGROUND CABLE
FO UNDERGROUND FIBER OPTIC LINE
UT UNDERGROUND TELEPHONE
W UNDERGROUND WATER
STM UNDERGROUND STORM (DRAINAGE) SEWER
STM + SAN UNDERGROUND COMBINATION SEWER
SAN UNDERGROUND SANITARY SEWER
SEWER UNDERGROUND SEWER MISC. (UNKNOWN TYPE)

HOUSE / BUILDING
ASPHALT PAVEMENT
GRAVEL / STONE
CONCRETE PAVEMENT / SIDEWALK

SURVEY CONTROL
SURVEY CONTROL
TBM TEMP. BENCHMARK
SURVEY POINT I.D.

GENERAL
FFE FINISHED FLOOR ELEVATION
BORING LOCATION
MONITORING WELL
TEXT TEXT / TOPO INFORMATION

PROPERTY
GP GATE POST
PPST FENCE POST
T-P "T" POST
R/W RIGHT-OF-WAY MONUMENT
A/C AIR CONDITIONING UNIT
B BOLLARD - CONCRETE
B BOLLARD - WOOD
COLUMN / SUPPORT POST
FP FLAG POLE
MB SINGLE MAILBOX
MB-D DOUBLE MAILBOX
MB-M MULTIPLE MAILBOX
SATELLITE DISH
GS GAS STATION MANHOLE
GMW GAS STATION MONITORING WELL

TREES / VEGETATION
BUSH
STUMP
CONIFEROUS TREE
DECIDUOUS TREE

SIGNS / STRIPING / TRAFFIC
DP DELINEATOR POST
PARKING BUMPER
PEDESTRIAN SIGNAL POLE
HANDICAP SYMBOL
RAILROAD SIGNAL
RAILROAD SIGN
ROADWAY SIGN (SINGLE POST)
ROADWAY SIGN (DOUBLE POST)
LD SIGNAL LOOP DETECTOR BOX
TRAFFIC SIGNAL STRAIN POLE

SANITARY
S CISTERN
GI GREASE INTERCEPTOR
PUMP GRINDER PUMP
CO SANITARY CLEANOUT
S SANITARY LATERAL STUB MARKER
SS SANITARY MANHOLE
MH MISC. OR COMBINE SEWER STR.

DRAINAGE / STORM
END SECTION
D MISCELLANEOUS STORM STRUCTURE
TILE REG. (LEGAL) DRAIN TILE RISER
ROOF DRAIN DOWNSPOUT
D STORM SEWER MANHOLE
WQ WATER QUALITY UNIT
BEE-HIVE INLET
COMBINATION "CURB" INLET
DITCH GRATE INLET
DRAINAGE MANHOLE WITH CURB INLET
GRATE INLET (CIRCLE SHAPE)
GRATE INLET (SQUARE / RECT. SHAPE)
ROLL CURB INLET
SOLID LID STORM CASTING
Y YARD DRAIN INLET

WATER
PCIS SEPTIC TANK
FDC FIRE DEPARTMENT CONNECTION
FIRE HYDRANT
PIV POST INDICATOR VALVE
SPRINKLER HEAD
W WELL

UTILITY APPURTENANCES
(# - INDICATES UTILITY TYPE)
CC-# CABINET
MANHOLE
#M METER
PEDESTAL
#R RISER
UTILITY TUB
#V VALVE
#VT VENT PIPE
MK# WARNING MARKER

ELECTRIC / LIGHTS
EB ELECTRICAL BOX
GROUND LIGHT
LAMP POST (PRIVATE)
LIGHT POLE
ANCHOR FOR GUY ROPE
POLE - GUY OR STUB
POWER POLE / UTILITY POLE
LIGHT ON POWER / UTILITY POLE
Z METAL TOWER LEG
T TRANSFORMER

UTILITY DESIGNATIONS ("#")

C / TV - CABLE	E - ELECTRIC (ELEC.)	FM - FORCE MAIN		F / FO - FIBER OPTICS
G - GAS	I - IRRIGATION	S - SPRINKLERS		R / RR - RAILROAD
SS - SANITARY	T - TELEPHONE (TELE.)	TR - TRAFFIC	U - UTILITY	W - WATER

FRITZ ENGINEERING SERVICES
14020 MISSISSINEWA DRIVE
CARMEL, INDIANA 46033
P: 317.324.8695 F: 317.324.8717
www.Fritz-Eng.com

PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS AND ISSUES	DATE	BY

GENERAL NOTES / LEGEND:

"IT'S THE LAW"
811
Know what's below. Call before you dig.
2 WORKING DAYS BEFORE YOU DIG.

PROJECT:
GREEN TOUCH MCCORDSVILLE
Green Touch Services

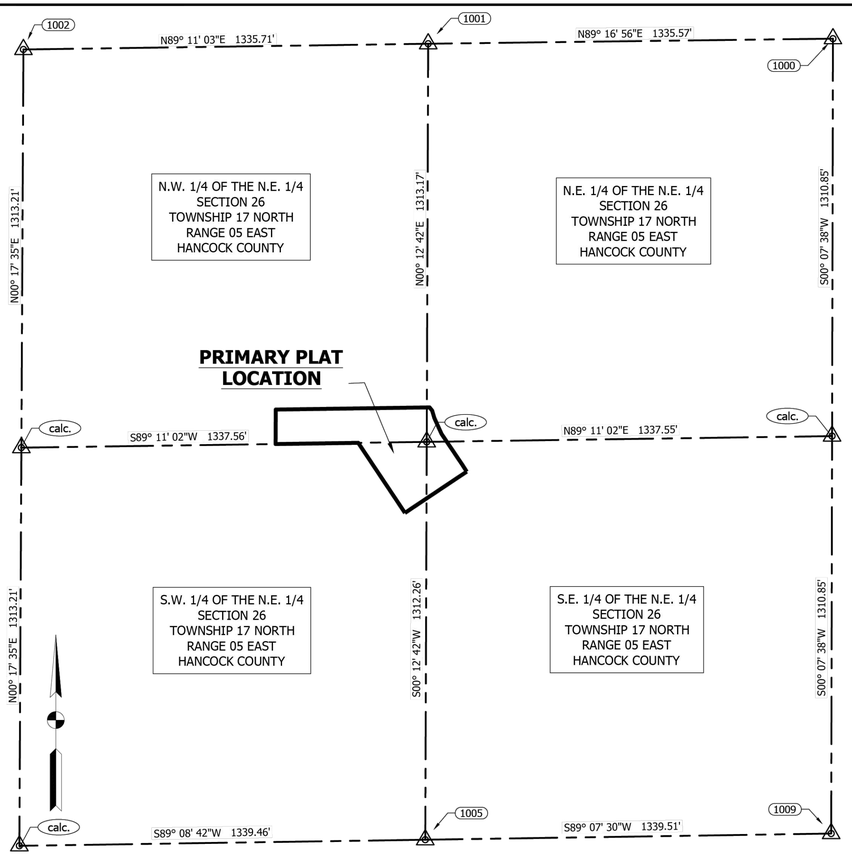
PROJECT LOCATION:
6312 RAILROAD ST
MCCORDSVILLE, INDIANA 46055
HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE:
NE $\frac{1}{4}$, S26, T17N, R5E

CLIENT:
MacDOUGALL PIERCE CONSTRUCTION
12720 FORD DRIVE
FISHERS, IN 46038

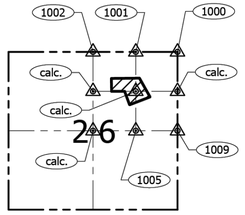
PLAN DATE: 3/8/2024		
DESIGN: AF	CHECK: AF	DRAWN: KG
PROJECT NO. 2308005		
SHEET NAME: GENERAL INFORMATION PLAN		
SHEET NO. C101		

PRINTED BY: Ashton Fritz
DATE: 3/7/2024 9:40 AM
SHEET SIZE, SCALE: ANSI FULL BLEED D (34.00 X 22.00 INCHES), 1:1
FILE NAME: F:\2023\2308005 - GREEN TOUCH MCCORDSVILLE\03



U.S.P.L.S.S. NORTHEAST QUARTER OF SECTION 26 BREAKDOWN DIAGRAM

(1" = 250' SCALE)



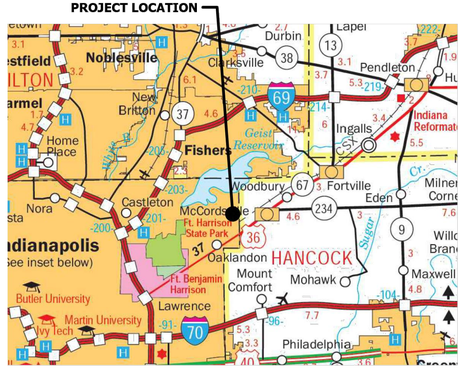
TOWNSHIP 17 NORTH
RANGE 05 EAST

= PROJECT LOCATION

U.S.P.L.S.S. SECTION MAP

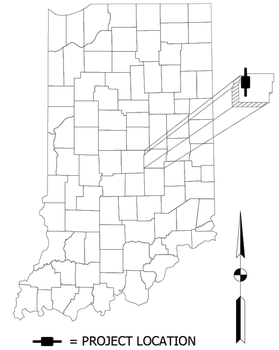
(MAP NOT TO SCALE)

PROJECT LOCATION



VICINITY MAP

(NOT TO SCALE)



= PROJECT LOCATION

STATE MAP

(NOT TO SCALE)

U.S. PUBLIC LAND SURVEY SYSTEM (USPLSS) SECTION LINE RECOVERED MONUMENTS:

The recovery of section corner monuments and the establishment of section lines for the Northeast Quarter of Section 26, Township 17 North, Range 5 East, worthy of mention are as follows:

Four (4) of the section corner monuments required for this survey had County Surveyors Office Section Corner Records. The County Surveyors Office Section Corner Records provide corresponding published coordinates (Indiana State Plane East) for the section corner monuments / locations. These published coordinates coordinate system is based upon the same coordinate system utilized for this survey. The difference between the measured coordinates obtained for this survey as compared to the published coordinates for all section corners located as part of this survey were within 0.04 to 0.23 feet, which is within allowable measurement tolerances for this survey.

Northeast Corner of Section 26 (Pt. No. 1000):

A brass disc monument 0.1 feet below grade was recovered per the Hancock County Surveyors Office Section Corner Records. There is considered to be no uncertainty associated with this corner.

Northeast Corner of the Northwest Quarter of the Northeast Quarter of Section 26 (Pt. No. 1001):

A brass disc monument in 10 inch by 10 inch concrete pad flush with grade was recovered per the Hancock County Surveyors Office Section Corner Records. There is considered to be no uncertainty associated with this corner.

North Quarter Corner of Section 26 (Pt. No. 1002):

A brass pin monument 0.1 feet below grade was recovered per the Hancock County Surveyors Office Section Corner Records. There is considered to be no uncertainty associated with this corner.

Southeast Corner of the Southwest Quarter of the Northeast Quarter of Section 26 (Pt. No. 1005):

A 5/8 inch diameter rebar leaning west (located at apparent center) was recovered. No County Surveyors Office Section Corner Records were found online or shown on the County GIS for this section corner location. Per the recovered evidence and documentation available, it is believed that this is the best prima facia evidence to re-establish this section corners location. There is considered to be anywhere from 0.1 feet to 39 feet of uncertainty associated with this corner location.

East Quarter Corner of Section 26 (Pt. No. 1009):

A mag nail with washer stamped "Wimmer LS20200013" was recovered. Per the Hancock County Surveyors Office Section Corner Records a bras monument is denoted at this section corner location. Per comparison between this surveys measured coordinates for this stamped mag nail with washer to the County Surveyors published coordinates for this section corner location, the two coordinates were within 0.11 feet of one another. Therefore this mag nail with washer was held as such. There is considered to be no uncertainty associated with this corner location.

Southwest Corner of the Southwest Quarter of the Northeast Quarter (Center of Section) of Section 26 (Calculated Location):

No monument was recovered at this location. No County Surveyors Office Section Corner Records were found online or shown on the County GIS for this section corner location. This section corner location was established per a boundary survey received by the client / owner as prepared by Gibson Surveying Group, Inc dated 02/20/2008 with a job number of 3294. Per this Gibson survey, a boat spike was recovered and held as this section corner. This monument was not found. This section corner location as established by this Gibson survey was correlated into this survey's coordinate system / basis of bearings. This correlation, and therefore section corner location, was established based on holding the angular and distance relationships between the corresponding section corner monuments recovered for both this survey and this Gibson boundary survey. Per the recovered evidence and documentation available, it is believed that this is the best prima facia evidence to re-establish this section corners location. There is considered to be between to 1.0 feet to 9.0 feet of uncertainty associated with this corner location.

Southwest Corner of the Northwest Quarter of the Northeast Quarter of Section 26 (Calculated Location):

No County Surveyors Office Section Corner Records were found online or shown on the County GIS for this section corner location. Two (2) square, flat, flush with grade stones were found near this location. These stones appeared to be placed, but also do not appear to be monuments. By connecting the North Quarter corner of Section 26 to the calculated location for the Southwest Corner of the Southwest Quarter of the Northeast Quarter of Section 26 (center of section) to establish this west section line of the Northeast Quarter of Section 26, these stones fell within 0.2 and 0.4 feet of said west section line as measured from their centers. An old wood fence post was also found at this location. The wood fence post was located 3.2 feet east of said west section line. This old wood fence post was initially used as this section corner location, but when the section lines as established from this fence post were compared to onsite field evidence, lines of occupations, and distance calls in the subject tracts, it was concluded that this fence post was not the section corner location. Ultimately, this section corner location was established by subdivided into aliquot parts this quarter section by survey protraction methods to establish said corner location. There is considered to be up to 6.6 feet of uncertainty associated with this corner location.

Southeast Corner of the Northeast Quarter of the Northeast Quarter of Section 26 (Calculated Location):

No monument was recovered at this location. No County Surveyors Office Section Corner Records were found online or shown on the County GIS for this section corner location. The quarter section was subdivided into aliquot parts by survey protraction methods to establish this section corner location. There is considered to be an unknown amount of uncertainty associated with this corner location.

Center of Quarter Section of the Northeast Quarter of Section 26 (Calculated Location):

No monument was recovered at this location. No County Surveyors Office Section Corner Records were found online or shown on the County GIS for this section corner location. The Center of this Quarter Section location was established by the intersection of 16th section lines as established between recovered and calculated 16th section corner locations. There is considered to be an unknown amount of uncertainty associated with this corner location.

SUBJECT TRACT 1 LAND DESCRIPTION OF RECORD:

Per Instrument Number 070010933 (Office of the Recorder of Hancock County, Indiana).

Ownership per Deed and County Parcel Report: G.T. Real Estate, LLC

Please note, any errors (spelling, grammar, intent, etc.) or omissions in the land description is not a representation of Fritz Engineering Services, LLC (FES). FES did not create the land description, but said land description is shown below exactly as worded / written per the deed of record and/or title commitment.

A part of the Northeast Division of the Northeast Quarter of Section 26, Township 17 North, Range 5 East described as follows: Beginning at a point 14 rods, 21.3 feet west of the southeast corner of the Northwest Quarter of the Northeast Quarter of Section 26. Township and Range aforesaid: thence east one rod, one and one half (1 - 1/2) feet; thence southeasterly at right angles to the C.C.C. and St. L. Railroad to the north line of the Union Traction Company's right-of-way thence northeasterly on the north line of said Traction Company's right of way 227 - 1/2 feet; thence west and parallel with the south line of the Northwest Quarter of said Northeast Quarter to the line dividing the lands of Conrad H. Crosley and Margaret Bolandder as formerly owned; thence south on said division line to the south line of said Northwest Quarter of said Northeast Quarter; thence east on said south line 283.3 feet to the place of beginning, containing 1.15 acres, more or less, and being the same real estate conveyed to said grantor, Gertrude Crawford, as appears in Deed Record 99, page 291 and also in Deed Record 100, page 53 in Recorders Office of Hancock County, Indiana.

SUBJECT TRACT 2 LAND DESCRIPTION OF RECORD:

Per Instrument Number 9708964 (Office of the Recorder of Hancock County, Indiana).

Ownership per Deed and County Parcel Report: G.T. Real Estate, LLC

Please note, any errors (spelling, grammar, intent, etc.) or omissions in the land description is not a representation of Fritz Engineering Services, LLC (FES). FES did not create the land description, but said land description is shown below exactly as worded / written per the deed of record and/or title commitment.

A strip of land owned by Indiana Railroad and formerly used as a right of way for an interurban electric railroad situated in the Northeast Quarter of Section Twenty-six (26), Township Seventeen (17) North, Range Five (5) East, in Hancock county, Indiana, said strip of land being 53 feet in width and 268.5 feet in length lying North of, parallel to and adjoining the Northerly boundary line of a certain parcel of land as was conveyed to Omer E. Stoner by Bertie E. Smith, Administrator by a deed dated December 30, 1927 recorded in the Recorder's Office of Hancock County, Indiana, in Deed Record 102, page 252.

A part of the West Half of the Northwest Quarter of Section Twenty-six (26), Township Seventeen (17) North, Range Five (5) East, located between the right of way of the Union Traction Company of Indiana and the right of way of the C.C.C. & St. Louis Railway Company and described as follows, to-wit: Beginning at a stone at the Northeast corner of said West Half; thence South 01 degrees 40 minutes East 1222.5 feet; thence South 38 degrees 44 minutes West 73 feet which is the point of beginning; thence south 38 degrees 44 minutes West 82.5 feet; thence with a curve to the West of 2664.5 feet radius for a distance of 186.2 feet; thence Southeasterly at right angles to the right of way of the said C.C.C. & St. Louis Railway Company 133.25 feet; thence Northeasterly parallel with the said center line of said Railway Company 249.5 feet; thence Northwesterly 215 feet to the place of beginning.

A strip of land herein conveyed contains .32 of an acre more or less, and being a part of a 33 foot strip of land as was conveyed to Union Traction company of Indiana by E.H. Thompson by a deed dated January 10, 1900 and recorded in the Recorder's Office of Hancock County, in Deed Record 73 page 42 and also a part of a 20 foot strip of land as was conveyed to Union Traction Company of Indiana by Henry N. Thompson by a deed dated August 27, 1900 recorded in the Recorder's Office of Hancock County in Deed Record 74, page 359.

Containing in both descriptions 1.31 acres, more or less.

SECONDARY PLAT - MODERNIZED LAND DESCRIPTION:

A part of the Northeast Quarter of Section 26, Township 17 North, Range 05 East, Vernon Township, Town of McCordsville, Hancock County, Indiana and being part of the tracts of land as described in Instrument Numbers 9708964 and 070010933 as recorded in the Office of the Recorder of Hancock County, Indiana, and as shown on the plat of an Retracement Boundary Survey as certified by Nickolas M. Schmitt, P.S. No. LS21200004 (Fritz Engineering Services, LLC) project number FES 2308005 - Green Touch Project (all references to monuments and courses herein are as shown on said plat of survey) and more particularly described as follows:

Commencing from the Northeast corner of the Northwest Quarter of the Northeast Quarter of said Section 26; thence South 00 degrees 12 minutes 42 seconds West on and along the east line of said Quarter-Quarter Section with the basis of bearing being NAD83 Indiana State Plane East Zone, 1199.37 feet to the south line of the D&D Vail Trust tract of land as described in Instrument Number 202001289 as recorded in said Hancock County Recorders Office, said point being the Point of Beginning and being marked by a 5/8 inch diameter rebar with pink cap stamped "Fritz Eng. Boundary Firm #0152" (hereon referred to as Fritz capped rebar); thence North 89 degrees 11 minutes 02 seconds East on and along said south line 8.85 feet to the center of the of Stansbury Ditch (Stansbury and Schultz Regulated Drain), with the next five (5) courses being on and along the centerline of said Stansbury Ditch with the courses representing a meander line of said centerline; (1) thence South 38 degrees 40 minutes 12 seconds East 13.85 feet; (2) thence South 16 degrees 30 minutes 16 seconds East 25.17 feet; (3) thence South 24 degrees 27 minutes 17 seconds East 57.96 feet; (4) thence South 33 degrees 55 minutes 21 seconds East 121.40 feet; (5) thence South 32 degrees 23 minutes 00 seconds East 28.04 feet to the northern railroad right-of-way of the CSX Transportation Railroad (formerly C.C.C. & St. L. Railroad) as being marked by a mag nail with washer stamped "Fritz Eng. Boundary Firm #0152" (hereon referred to as Fritz mag nail); thence South 56 degrees 15 minutes 58 seconds West on and along said northern railroad right-of-way 244.86 feet to a Fritz mag nail; thence North 33 degrees 44 minutes 02 seconds West at right angles (perpendicular) to said northern railroad right-of-way 277.71 feet to the south section line of said Quarter-Quarter section (Northwest Quarter of the Northeast Quarter of Section 26), said point being marked by a Fritz mag nail; thence South 89 degrees 11 minutes 02 seconds West on and along said south section line 272.64 feet to the east line of the D&D Vail Trust tract of land as described in Instrument Number 20201288 as recorded in said Hancock County Recorders Office; thence North 00 degrees 17 minutes 35 seconds East on and along said east line 113.80 feet to said south line of said D&D Vail Trust tract of land as described in said Instrument Number 202001289 as recorded in said Hancock County Recorders Office, with said point being marked by a Fritz capped rebar; thence North 89 degrees 11 minutes 02 seconds East on and along said south line and parallel to the south section line of said Quarter-Quarter Section 498.53 feet to the Point of Beginning, containing 2.513 acres (109,466 square feet), more or less.

GENERAL NOTES, UTILITY NOTES AND DISCLAIMERS:

1. For viewing clarity of this map or plat, the pipes, structures, and appurtenances may not be drawn to scale.
2. The utilities indicated on this survey plat may not be a compete inventory of all existing utilities currently on or near the site. The size and location of these utilities may be approximate. Indiana 811 was contacted for this survey. Private utility locates were NOT contacted for this survey per the survey scope. No attempt was made as part of this survey to obtain or show data concerning existence, size, depth, condition, capacity, or location of any utility, public service facility, or utility service lines to the property. No excavations were made during the course of this survey to locate underground utilities and/or structures. Only what was marked by the utility companies via Indiana 811 were field located and shown on the survey. No assumptions were made connecting utilities observed and located to other appurtenances or how they enter or connect into adjoining houses or buildings unless observed or identified by Indiana 811. Before design or construction is to begin, locations should be confirmed with the appropriate agencies. Underground utilities depicted on the attached plat of survey have been measured and located per above grade field observations, utility markings, and/or scaled off utility plans only. No warranty, either expressed or implied, is made to the accuracy and/or completeness of information presented on underground utilities, or as to its fitness for any particular purpose or use. In no event will Fritz Engineering Services, LLC, its employees, agents, and/or assigns be liable for any damages arising out of the furnishing and/or use of such information. The path of the utility lines on said plat of survey should be considered approximate until they are either relocated, by calling Indiana 811 and other utility locate companies, or until they are excavated to verify the location and path of the utility lines.
3. Unless otherwise stated, sewer measurements were performed with limited access. Field measurements were determined as physically observed (sometimes with limited visibility) and without confined space entry. Pipe sizes and measurements under certain conditions may be provided from other sources (as stated) in electronic format via GIS data or from record drawings provided by other agencies.
4. Storm, sanitary, or combined sewers were located per visible, observed evidence only. Excavations of sewers, or corresponding structures, were not conducted by Fritz Engineering Services, LLC.
5. Sewer pipe lengths as shown per this survey are from each field located shot of the structures and are not shortened or lengthened to adjust for the size, orientation, or shape of structures, and therefore the pipe lengths as depicted on this survey are approximate.
6. Measure down data (Structure Details) for sewer structures is considered approximate, and while extensive effort was made to get all pertinent information and measurements for each sewer structure, physical and safety issues do cause limitations in the ability to always collect and measure accurately the field data associated with each structure. Depth, orientation, and condition of the structures and incoming pipes can make determining sizes, material types, and inverts difficult to determine or evaluate. Fritz Engineering Services, LLC employees do not enter sewer structures to collect and measure data due to safety, health, and liability issues. Fritz Engineering Services, LLC, its employees, agents, and/or assigns shall not be held liable or their work be considered incomplete if discrepancies are found between the measure down data collected for this project and onsite field checks and/or observations performed by other parties. For some sewer structures, the accuracies for inverts may have an uncertainty up to 0.5 feet and pipe sizes may vary up or down one pipe size.

UTILITY REQUEST (INDIANA 811) NOTES:

Indiana 811 was requested via their website on 09/25/2023.
The Indiana 811 ticket numbers are as follows: 2309252624 & 2309252744

"IT'S THE LAW" 811 Know what's below. Call before you dig.
2 WORKING DAYS BEFORE YOU DIG.

Per the Indiana 811 ticket, the follow utilities may be located near or onsite:

- CENTERPOINT ENERGY (gas)
- CHARTER COMMUNICATIONS INDIANAPOLIS (cable tv, fiber)
- CHARTER COMMUNICATIONS MARION - FORMERLY BRIGHT HOUSE (cable tv, fiber)
- CITIZENS WATER (water)
- INDIANAPOLIS POWER AND LIGHT COMPANY (electric)
- AT&T-TRANSMISSION (fiber)
- NINE STAR CONNECT (telephone)
- MCCORDSVILLE PUBLIC WORKS (storm, sewer)

See the "Utility Notes and Disclaimers" in regards to the location of utilities and how this item relates to the survey.

FRITZ ENGINEERING SERVICES
14020 MISSISSINEWA DRIVE
CARMEL, INDIANA 46033
P: 317.324.8695
F: 317.324.8717
www.Fritz-Eng.com

MONUMENTATION LEGEND

MON. SET C.R.	MONUMENT SET, CAPPED REBAR
MON. SET MAG	MONUMENT SET, MAG NAIL WITH STAMPED WASHER
CHISEL "X"	CHISEL "X" SCRIBED / CUT AS SET MONUMENT

SET PROPERTY CORNER MONUMENTS TO BE:
24 IN. x 5/8 IN. DIA. REBAR WITH STAMPED PINK CAP SET FLUSH WITH GRADE OR WHERE CORNER IS ON HARDSCAPE, A MAG NAIL WITH STAMPED WASHER.
MONUMENT STAMPING: "FRITZ ENG. BOUNDARY FIRM # 0152"

MON. SET REF. PT. / #' OFFSET — REFERENCE MONUMENTS UTILIZED FOR OFFSETS POINTS IN RELATIONSHIP TO P.L. CORNERS NOT ABLE TO BE SET IN FIELD. "#" INDICATES OFFSET DISTANCE IN FEET.

REFERENCE MONUMENT / OFFSET POINTS TO BE:
24 IN. x 5/8 IN. DIA. REBAR WITH STAMPED YELLOW CAP SET FLUSH WITH GRADE OR WHERE CORNER IS ON HARDSCAPE, A MAG NAIL WITH STAMPED WASHER.
MONUMENT STAMPING: "FRITZ ENG. REFERENCE POINT FIRM # 0152"

BOUNDARY SURVEY LEGEND

# — SURVEY POINT / MONUMENT NUMBER I.D.	# — KEYNOTE
SURVEY CONTROL	## — PARCEL I.D.
RECOVERED MONUMENTS	GP — GATE POST
U.S.P.L.S.S. SECTION CORNER LOCATION	PPST — FENCE POST
S00°S — ALIGNMENT POINT (RECOVERED OR CALC.)	T.P — "T" POST
R/W — RECOVERED RIGHT-OF-WAY MONUMENT	
SET BOUNDARY CORNER MONUMENT	
U.S.P.L.S.S. SECTION CORNER DELINEATION SYMBOL. "#" INDICATES SECTION NUMBER	+00 "#" STATION OFFSET LABEL ("#" = ALIGN. NAME)

SURVEY PROPERTY LINE
U.S.P.L.S.S. SECTION LINE
ALIGNMENT
APPARENT CENTERLINE
EXISTING R/W OR LIMITED ACCESS R/W
APPARENT R/W OR APPARENT R.E.R. (R.W)
APPARENT ADJACENT P.L. / LOT LINES
APPARENT EASEMENT
APPARENT REGULATED (LEGAL) DRAIN
SURVEY LINE / APP. DEED LINE
FENCES
WATERS EDGE
WOODS LINE
HOUSE / BUILDING
ASPHALT PAVEMENT
CONCRETE PAVEMENT / SIDEWALK
MISC. MATERIAL

ABBREVIATIONS

P.L.	= PROPERTY / BOUNDARY LINE	L	= LENGTH
APP.	= APPARENT	R	= RADIUS
EX.	= EXISTING	T	= TANGENT
R/W or ROW	= RIGHT-OF-WAY	CL	= CENTERLINE
L.A.	= LIMITED ACCESS	ALIGN.	= ALIGNMENT
REG.	= REGULATED	B.A.	= BEG. OF ALIGNMENT
B.S.L.	= BUILDING SET-BACK	E.A.	= END OF ALIGNMENT
ESMT.	= EASEMENT	P.C.	= POINT OF CURVATURE
V.W.	= VARIABLE WIDTH	P.T.	= POINT OF TANGENCY
NO.	= NUMBER	P.I.	= POINT OF INTERSECTION
INSTR.	= INSTRUMENT	P.O.C.	= POINT ON CURVE
P.O.B.	= POINT OF BEGINNING	P.O.T.	= POINT ON TANGENT
L.C.R.S.	= LOCATION CONTROL ROUTE SURVEY	P.C.C.	= POINT OF COMPOUND CURVE
INDOT	= INDIANA DEPT. OF TRANSPORTATION	P.R.C.	= POINT OF REVERSE CURVE
CALC.	= CALCULATED	MID	= MIDPOINT
REC.	= RECORDED	CH	= CHORD
MEAS.	= MEASURED	B-B	= BACK TO BACK
DEED	= RECORDED DEED	L.F.	= LINEAR FEET
PLAT	= RECORDED PLAT	BLD.	= BUILDING
SURV.	= RECORDED SURVEY	HC	= HANDICAP SPACE
A.M.AP	= AUDITOR / ARBITRARY SUB. MAP	FL	= FLOW LINE / DITCH LINE
TITLE	= TITLE COMMITMENT	ELEV.	= ELEVATION
SUB.	= SUBDIVISION PLAT	A.G. / B.G.	= ABOVE / BELOW GRADE
G.I.S.	= GEOGRAPHIC INFORMATION SYSTEM	DIA.	= DIAMETER
PLANS	= PUBLISHED OR RECEIVED PLANS	FND.	= FOUND
RT. / LT.	= RIGHT / LEFT	MON.	= MONUMENT

PRIMARY PLAT
INTERURBAN PLACE

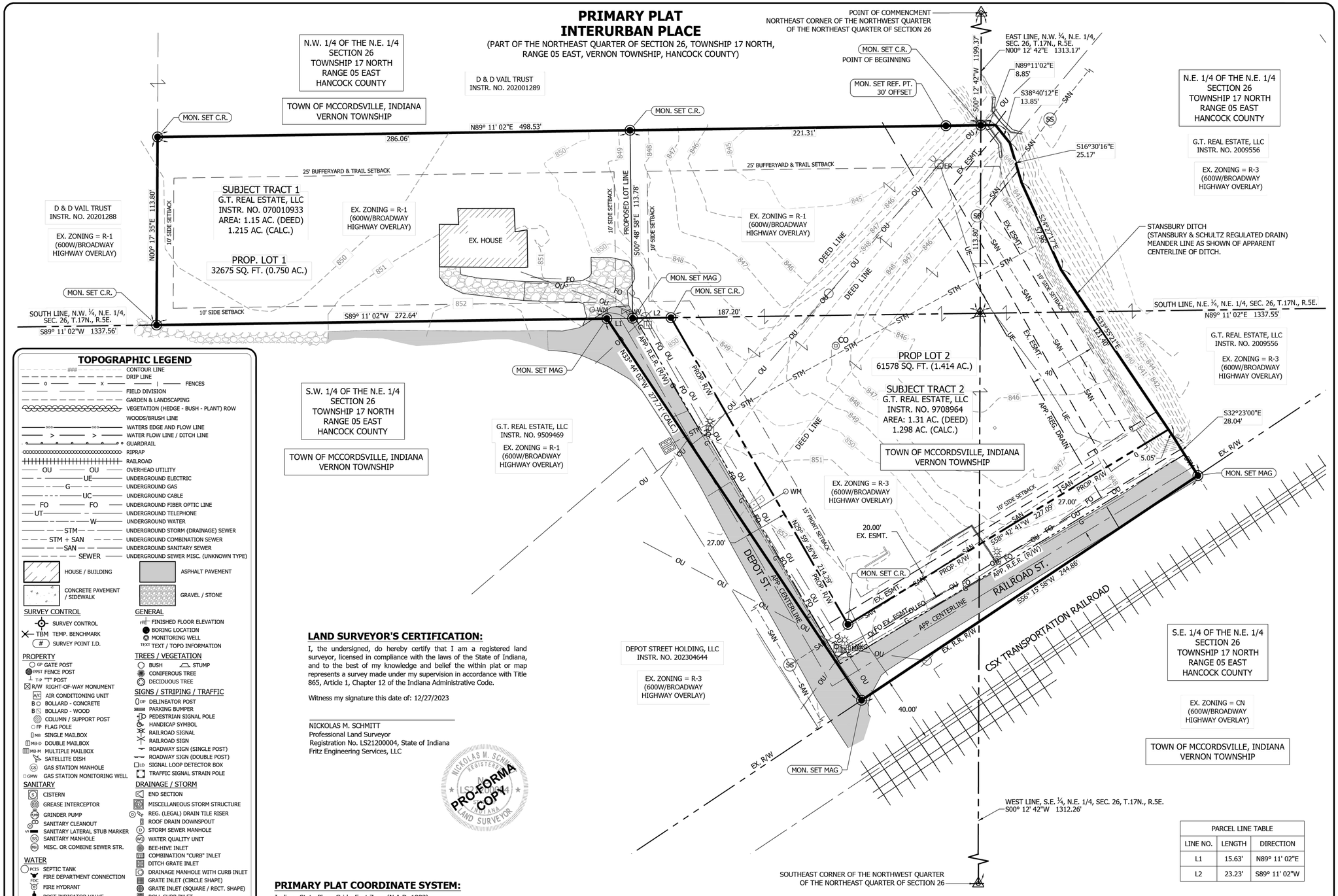
SUBDIVIDER
G.T. REAL ESTATE LLC
6314 W. BROADWAY, MCCORDSVILLE, IN 46055

PROJECT ADDRESS:
7776 DEPOT STREET (TRACT 1) & 6312 RAILROAD STREET (TRACT 2)
MCCORDSVILLE, IN 46055

PREPARED BY: NICKOLAS M. SCHMITT FRITZ ENGINEERING SERVICES, LLC	PROJECT NUMBER: 2308005 DATE: 12/27/2023
ANALYSIS BY: NMS DRAFTED BY: NMS	CHECKED BY: NMS
PLAT STATUS **PRO-FORMA**	SHEET NUMBER **1 OF 2**

PRIMARY PLAT
INTERURBAN PLACE

(PART OF THE NORTHEAST QUARTER OF SECTION 26, TOWNSHIP 17 NORTH, RANGE 05 EAST, VERNON TOWNSHIP, HANCOCK COUNTY)



PARCEL LINE TABLE		
LINE NO.	LENGTH	DIRECTION
L1	15.63'	N89° 11' 02"E
L2	23.23'	S89° 11' 02"W

TOPOGRAPHIC LEGEND

- CONTOUR LINE
- DRIP LINE
- FENCES
- FIELD DIVISION
- GARDEN & LANDSCAPING
- VEGETATION (HEDGE - BUSH - PLANT) ROW
- WOODS/BRUSH LINE
- WATERS EDGE AND FLOW LINE
- WATER FLOW LINE / DITCH LINE
- GUARDRAIL
- RIPRAP
- RAILROAD
- OVERHEAD UTILITY
- UNDERGROUND ELECTRIC
- UNDERGROUND GAS
- UNDERGROUND CABLE
- UNDERGROUND FIBER OPTIC LINE
- UNDERGROUND TELEPHONE
- UNDERGROUND WATER
- UNDERGROUND STORM (DRAINAGE) SEWER
- UNDERGROUND COMBINATION SEWER
- UNDERGROUND SANITARY SEWER
- UNDERGROUND SEWER MISC. (UNKNOWN TYPE)
- HOUSE / BUILDING
- ASPHALT PAVEMENT
- CONCRETE PAVEMENT / SIDEWALK
- GRAVEL / STONE

SURVEY CONTROL
- SURVEY CONTROL
- TBM TEMP. BENCHMARK
- # SURVEY POINT I.D.

PROPERTY
- GP GATE POST
- FENCE POST
- T-P "T" POST
- R/W RIGHT-OF-WAY MONUMENT
- A/C AIR CONDITIONING UNIT
- B BOLLARD - CONCRETE
- B BOLLARD - WOOD
- COLUMN / SUPPORT POST
- FP FLAG POLE
- MB SINGLE MAILBOX
- MB-D DOUBLE MAILBOX
- MB-M MULTIPLE MAILBOX
- SATELLITE DISH
- GS GAS STATION MANHOLE
- GMW GAS STATION MONITORING WELL

SANITARY
- S CISTERN
- GREASE INTERCEPTOR
- GP GRINDER PUMP
- SANITARY CLEANOUT
- SANITARY LATERAL STUB MARKER
- SS SANITARY MANHOLE
- MISC. OR COMBINE SEWER STR.

WATER
- PCIS SEPTIC TANK
- FDC FIRE DEPARTMENT CONNECTION
- FIRE HYDRANT
- PIV POST INDICATOR VALVE
- SPRINKLER HEAD
- W WELL

UTILITY APPURTENANCES
(# - INDICATES UTILITY TYPE)
- CC-# CABINET
- MANHOLE
- # METER
- # PEDESTAL
- # RISER
- #-UT UTILITY TUB
- #V VALVE
- #VT VENT PIPE
- WGF WARNING MARKER

UTILITY DESIGNATIONS ("#")

C / TV - CABLE	E - ELECTRIC (ELEC.)	FM - FORCE MAIN
G - GAS	I - IRRIGATION	S - SPRINKLERS
SS - SANITARY	T - TELEPHONE (TELE.)	TR - TRAFFIC
F / FO - FIBER OPTICS		
R / RR - RAILROAD		
U - UTILITY		
W - WATER		

GENERAL
- FFE FINISHED FLOOR ELEVATION
- BORING LOCATION
- MONITORING WELL
- TEXT TEXT / TOPO INFORMATION

TREES / VEGETATION
- BUSH
- STUMP
- CONIFEROUS TREE
- DECIDUOUS TREE

SIGNS / STRIPING / TRAFFIC
- DP DELINEATOR POST
- PARKING BUMPER
- PEDESTRIAN SIGNAL POLE
- HANDICAP SYMBOL
- RAILROAD SIGNAL
- RAILROAD SIGN
- ROADWAY SIGN (SINGLE POST)
- ROADWAY SIGN (DOUBLE POST)
- LD SIGNAL LOOP DETECTOR BOX
- TRAFFIC SIGNAL STRAIN POLE

DRAINAGE / STORM
- END SECTION
- MISCELLANEOUS STORM STRUCTURE
- REG. (LEGAL) DRAIN TILE RISER
- ROOF DRAIN DOWNSPOUT
- D STORM SEWER MANHOLE
- WQ WATER QUALITY UNIT
- BEE-HIVE INLET
- COMBINATION "CURB" INLET
- DITCH GRATE INLET
- DRAINAGE MANHOLE WITH CURB INLET
- GRATE INLET (CIRCLE SHAPE)
- GRATE INLET (SQUARE / RECT. SHAPE)
- ROLL CURB INLET
- SOLID LID STORM CASTING
- YARD DRAIN / SMALL PROPERTY DRAIN

ELECTRIC / LIGHTS
- EB ELECTRICAL BOX
- GROUND LIGHT
- LAMP POST (PRIVATE)
- LIGHT POLE
- ANCHOR FOR GUY ROPE
- POLE - GUY OR STUB
- POWER POLE / UTILITY POLE
- LIGHT ON POWER / UTILITY POLE
- METAL TOWER LEG
- T TRANSFORMER

LAND SURVEYOR'S CERTIFICATION:

I, the undersigned, do hereby certify that I am a registered land surveyor, licensed in compliance with the laws of the State of Indiana, and to the best of my knowledge and belief the within plat or map represents a survey made under my supervision in accordance with Title 865, Article 1, Chapter 12 of the Indiana Administrative Code.

Witness my signature this date of: 12/27/2023

NICKOLAS M. SCHMITT
Professional Land Surveyor
Registration No. LS21200004, State of Indiana
Fritz Engineering Services, LLC

NICKOLAS M. SCHMITT REGISTERED LS21200004 STATE OF INDIANA LAND SURVEYOR
PRO-FORMA COPY

PRIMARY PLAT COORDINATE SYSTEM:

Indiana State Plane Grid - East Zone (N.A.D. 1983):

Unless noted otherwise, all bearings, distances, areas, and coordinates shown hereon are based upon GPS observations, Indiana State Plane Coordinate Grid System (Indiana East Zone - N.A.D. 1983) and are reported in U.S. Survey Feet and decimal parts thereof. Geoid Model 18 was used for all GPS observations.

The survey control and monument locations were measured with survey grade GPS equipment, with said GPS observations utilizing the INDOT Continuously Operating Reference Station (INCORS) a real-time kinematic (RTK) correction service over the internet. This system is stated by INDOT as "Providing Network RTK in RTCM (Real Time Correction Message) 2.3, and 3.1 in the MAX (R2K2 Full) and i-MAX (R2K2 LITE) formats via NTRIP (Networked Transport of RTCM via Internet) and TCP/IP, as well as CMR and CMR+ in the MAX (R2K2 Full) and i-MAX (R2K2 LITE) formats via NTRIP, and TCP/IP." Where GPS observations could not be performed or data collected, electronic total stations applying standard radial surveying techniques were utilized.

APPARENT R.E.R. (RIGHT-OF-WAY) NOTE:

No right-of-way documents for Depot Street and Railroad Street were found during preliminary research along the subject tracts. This does not constitute that existing right-of-way does not exist and the lack of right-of-way shown shall not indicate as such. Therefore, for this survey, Re-Acquired Existing Right-of-Way (R.E.R.) is shown on the survey plat herein. Pleas see the boundary survey for additional information.

Re-acquired existing right-of-way (R.E.R.) is court precedent for determining right-of-way for cities and counties where the local municipality maintains the roadways, but have no formal or legal documents showing title to such roadways or the right-of-way documents were not recorded or recorded in a "timely" matter. R.E.R. limits are established between the edge of pavement of the travel lanes of the roadway corridor only.

BASIS OF BEARING NOTE:

Unless noted otherwise, all bearings shown herein are labeled based upon this survey's basis of bearing: NAD 83 Indiana State Plane East - Grid. The subject tract(s) current deeds of record, and chain of title deeds, land descriptions bearing systems are considered "assumed". All bearings as labeled on this survey are shown and referenced per this survey's basis of bearing unless denoted as "REC.", "PLAT", "MEAS.", "DEED", "TITLE", "SUB.", or "SURV.".

The basis of bearings of the recorded descriptions of the subject tract(s) and adjoiners vary per deed. For clarity purposes, only the dimensions and bearings are labeled and shown as per this survey's basis of bearing herein on this survey.

N

SCALE
30 0 30

FRITZ ENGINEERING SERVICES
14020 MISSISSINEWA DRIVE
CARMEL, INDIANA 46033
P: 317.324.8695
F: 317.324.8717
www.Fritz-Eng.com

MONUMENTATION LEGEND

- MON. SET C.R. — MONUMENT SET, CAPPED REBAR
- MON. SET MAG — MONUMENT SET, MAG NAIL WITH STAMPED WASHER
- CHISEL "X" — CHISEL "X" SCRIBED / CUT AS SET MONUMENT

SET PROPERTY CORNER MONUMENTS TO BE:
24 IN. x 5/8 IN. DIA. REBAR WITH STAMPED PINK CAP SET FLUSH WITH GRADE OR WHERE CORNER IS ON HARDSCAPE, A MAG NAIL WITH STAMPED WASHER.
MONUMENT STAMPING: "FRITZ ENG. BOUNDARY FIRM # 0152"

- MON. SET REF. PT. #' OFFSET — REFERENCE MONUMENTS UTILIZED FOR OFFSETS POINTS IN RELATIONSHIP TO P.L. CORNERS NOT ABLE TO BE SET IN FIELD. "#" INDICATES OFFSET DISTANCE IN FEET.

REFERENCE MONUMENT / OFFSET POINTS TO BE:
24 IN. x 5/8 IN. DIA. REBAR WITH STAMPED YELLOW CAP SET FLUSH WITH GRADE OR WHERE CORNER IS ON HARDSCAPE, A MAG NAIL WITH STAMPED WASHER.
MONUMENT STAMPING: "FRITZ ENG. REFERENCE POINT FIRM # 0152"

BOUNDARY SURVEY LEGEND

- # SURVEY POINT / MONUMENT NUMBER I.D.
- SURVEY CONTROL
- RECOVERED MONUMENTS
- U.S.P.L.S.S. SECTION CORNER LOCATION
- S00°W ALIGNMENT POINT (RECOVERED OR CALC.)
- R/W RECOVERED RIGHT-OF-WAY MONUMENT
- SET BOUNDARY CORNER MONUMENT
- U.S.P.L.S.S. SECTION CORNER DELINEATION SYMBOL. "#" INDICATES SECTION NUMBER
- # KEYNOTE
- ## PARCEL I.D.
- GP GATE POST
- PPST FENCE POST
- T-P "T" POST
- +00 "#" 00' STATION OFFSET LABEL ("#" = ALIGN. NAME)

- SURVEY PROPERTY LINE
- U.S.P.L.S.S. SECTION LINE
- ALIGNMENT
- APPARENT CENTERLINE
- EXISTING R/W OR LIMITED ACCESS R/W
- APPARENT R/W OR APPARENT R.E.R. (R.W)
- APPARENT ADJACENT P.L. / LOT LINES
- APPARENT EASEMENT
- APPARENT REGULATED (LEGAL) DRAIN
- SURVEY LINE / APP. DEED LINE
- FENCES
- WATERS EDGE
- WOODS LINE
- HOUSE / BUILDING
- ASPHALT PAVEMENT
- CONCRETE PAVEMENT / SIDEWALK
- MISC. MATERIAL

ABBREVIATIONS

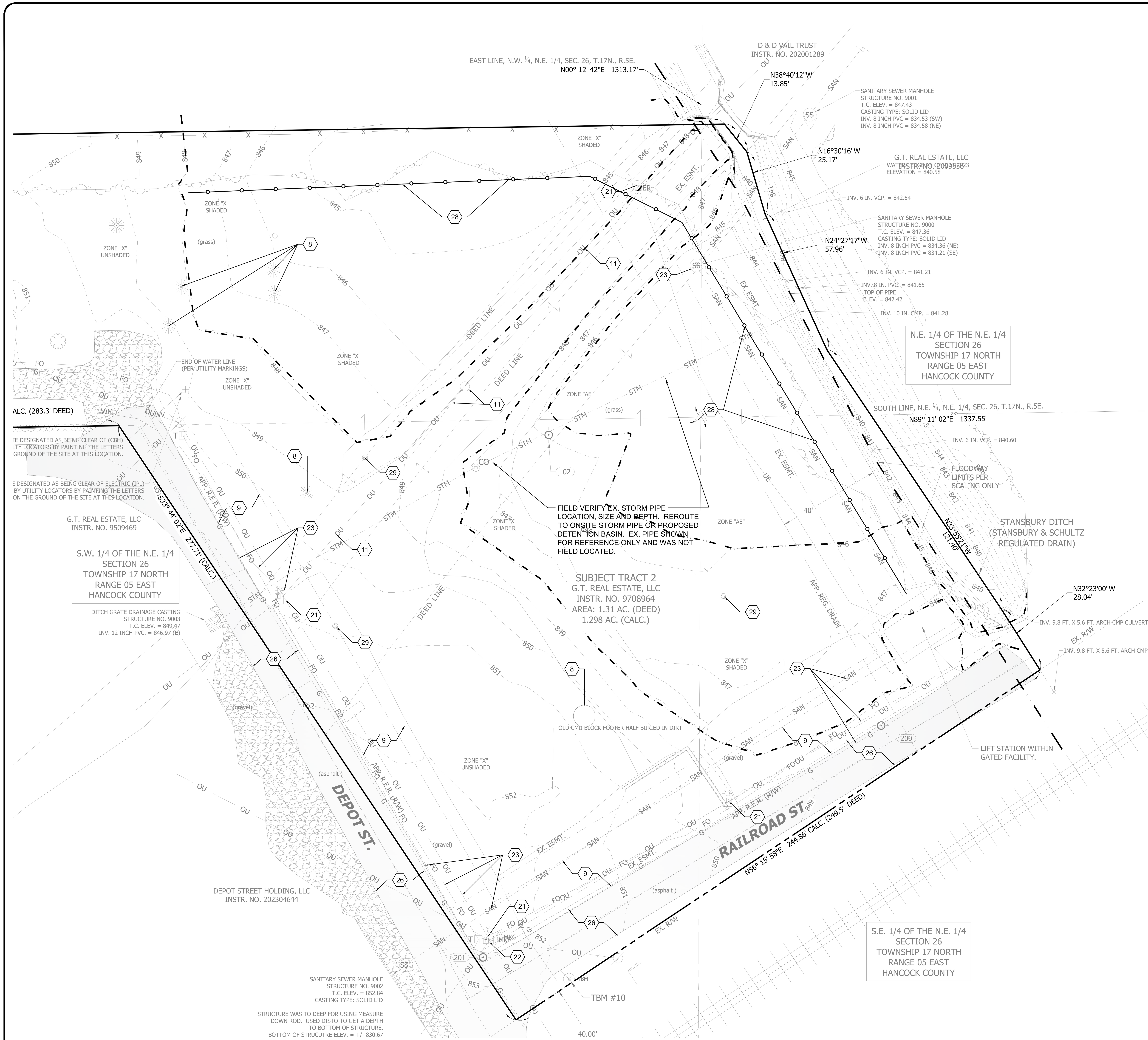
P.L.	= PROPERTY / BOUNDARY LINE	L	= LENGTH
APP.	= APPARENT	R	= RADIUS
EX.	= EXISTING	T	= TANGENT
R/W or ROW	= RIGHT-OF-WAY	CL	= CENTERLINE
L.A.	= LIMITED ACCESS	ALIGN.	= ALIGNMENT
REG.	= REGULATED	B.A.	= BEG. OF ALIGNMENT
B.S.L.	= BUILDING SET-BACK	E.A.	= END OF ALIGNMENT
ESMT.	= EASEMENT	P.C.	= POINT OF CURVATURE
V.W.	= VARIABLE WIDTH	P.T.	= POINT OF TANGENCY
NO.	= NUMBER	P.I.	= POINT OF INTERSECTION
INSTR.	= INSTRUMENT	P.O.C.	= POINT ON CURVE
P.O.B.	= POINT OF BEGINNING	P.O.T.	= POINT ON TANGENT
L.C.R.S.	= LOCATION CONTROL ROUTE SURVEY	P.C.C.	= POINT OF COMPOUND CURVE
INDOT	= INDIANA DEPT. OF TRANSPORTATION	P.R.C.	= POINT OF REVERSE CURVE
CALC.	= CALCULATED	MID	= MIDPOINT
REC.	= RECORDED	CH	= CHORD
MEAS.	= MEASURED	B-B	= BACK TO BACK
DEED	= RECORDED DEED	L.F.	= LINEAR FEET
PLAT	= RECORDED PLAT	BLD.	= BUILDING
SURV.	= RECORDED SURVEY	HC	= HANDICAP SPACE
A.MAP	= AUDITOR / ARBITRARY SUB. MAP	FL	= FLOW LINE / DITCH LINE
TITLE	= TITLE COMMITMENT	ELEV.	= ELEVATION
SUB.	= SUBDIVISION PLAT	A.G. / B.G.	= ABOVE / BELOW GRADE
G.I.S.	= GEOGRAPHIC INFORMATION SYSTEM	DIA.	= DIAMETER
PLANS	= PUBLISHED OR RECEIVED PLANS	FND.	= FOUND
RT. / LT.	= RIGHT / LEFT	MON.	= MONUMENT

PRIMARY PLAT
INTERURBAN PLACE

SUBDIVIDER
G.T. REAL ESTATE LLC
6314 W. BROADWAY, MCCORDSVILLE, IN 46055

PROJECT ADDRESS:
7776 DEPOT STREET (TRACT 1) & 6312 RAILROAD STREET (TRACT 2)
MCCORDSVILLE, IN 46055

PREPARED BY: NICKOLAS M. SCHMITT FRITZ ENGINEERING SERVICES, LLC	PROJECT NUMBER: 2308005 DATE: 12/27/2023
ANALYSIS BY: NMS DRAFTED BY: NMS	CHECKED BY: NMS
PLAT STATUS **PRO-FORMA**	SHEET NUMBER **2 OF 2**



KEY NOTES:

2 SAW CUT AND REMOVE PAVEMENT AND SIDEWALK FOR SANITARY LATERAL / UTILITY CONNECTION.

5 SAW CUT CURB / PAVEMENT.

8 REMOVE EXISTING TREE.

9 REMOVE EXISTING GRAVEL

11 RELOCATE EXISTING ELECTRIC SERVICE. (COORDINATE WITH UTILITY SERVICES).

21 PROTECT EXISTING UTILITY / LIGHT POLE.

22 PROTECT EXISTING SIGNAGE DURING CONSTRUCTION.

23 PROTECT EXISTING STORM / SANITARY / UTILITIES THROUGHOUT CONSTRUCTION.

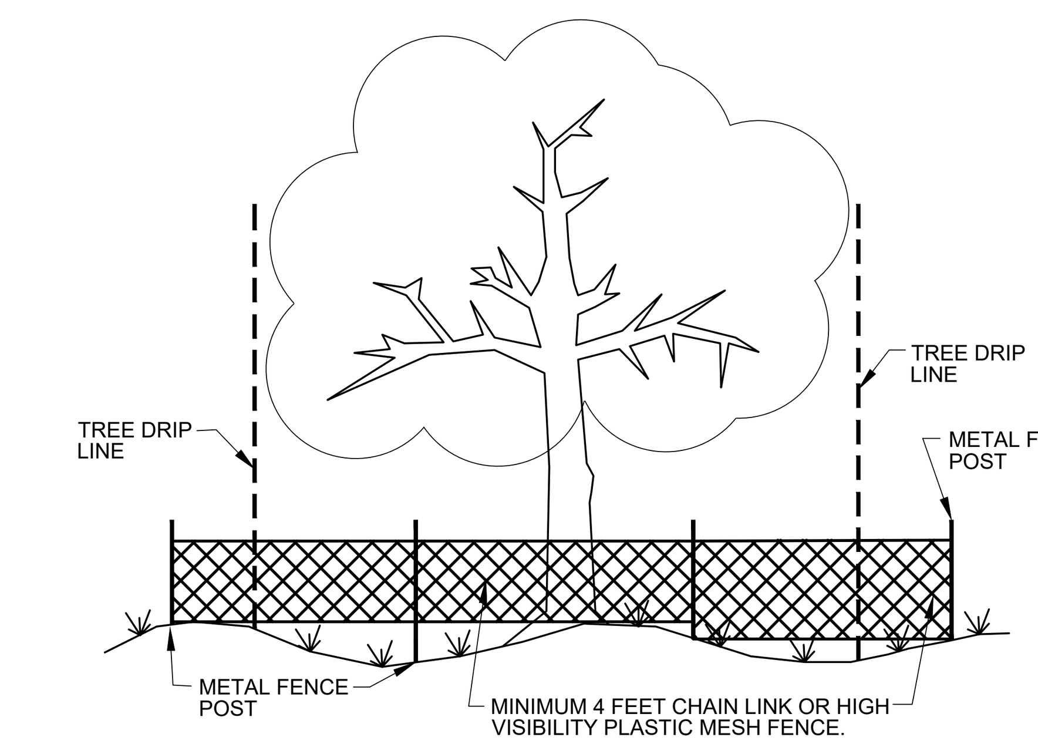
26 PAVEMENT / CURB / WALK TO REMAIN.

28 PROTECT EXISTING TREE / LANDSCAPING DURING CONSTRUCTION. SEE TREE PROTECTION DETAIL.

29 REMOVE MONITORING WELLS. COMPLETE.

NOTES

1. FOR PRE-CONSTRUCTION / DEMOLITION EROSION CONTROL MEASURES, SEE EROSION CONTROL SHEET C501 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. FOR ANY ROADWAY WORK, COORDINATE WITH THE LOCAL MUNICIPALITY STREET DEPARTMENT / DEPARTMENT OF PUBLIC WORKS PRIOR TO CONSTRUCTION. MAINTENANCE OF TRAFFIC (M.O.T.) REQUIRED FOR ALL ROADWAY / RIGHT-OF-WAY WORK. MAINTENANCE OF TRAFFIC SHALL BE ACCORDANCE WITH THE INDIANAN MUTCD MANUAL, INDOT DESIGN MANUAL, INDOT SPECIFICATIONS AND STANDARD DRAWINGS, AND ANY ADDITIONAL REQUIREMENTS FROM THE LOCAL MUNICIPALITY OF THE CORRESPONDING ROADWAY.
3. CONTRACTOR TO COORDINATE WITH ALL UTILITY COMPANIES PRIOR CONSTRUCTION. ALL DEMOLITION OR REMOVAL OF EXISTING UTILITIES, RELOCATION OF UTILIZES, OR PROPOSED CONNECTIONS TO EXISTING UTILITIES SHALL BE COORDINATED WITH AND APPROVED BY THE CORRESPONDING UTILITY COMPANY PRIOR TO ANY WORK.
4. ALL REMOVAL, HANDLING, STORAGE, AND DEPOSABLE OF ALL REQUIRED ITEMS FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL LAWS AND REQUIREMENTS.



GUIDELINES AND NOTES:
1. TREE PROTECTION FENCES SHALL BE 4 FEET HIGH MINIMUM CHAIN LINK FENCE OR HIGH VISIBILITY PLASTIC MESH CONSTRUCTION FENCING.
2. ERECT FENCE BARRIERS AROUND ALL "SAVED" TREES NEAR THE CONSTRUCTION ACTIVITY.
3. FENCE BARRIERS SHALL BE PLACED OUTSIDE THE DRIP LINE AS FAR FROM THE TREE AS CONSTRUCTION PERMITS.
4. FENCE POSTS SHALL BE PLACED NO FURTHER THAN 15 FEET APART.
5. NO STAGING OF MATERIALS OR GRADING SHALL OCCUR WITHIN THE FENCED TREE PROTECTION AREA.

TREE PRESERVATION / PROTECTION DETAIL

NOT TO SCALE

EXISTING UTILITY & SEWER DISCLAIMER:

UTILITY LOCATIONS, CROSSINGS, DEPTHS, AND INFORMATION ARE APPROXIMATELY SHOWN. THIS INCLUDES ALL SEWER (SANITARY, STORM, AND COMBINE) LOCATIONS AND MEASURE DOWN INFORMATION. LOCATIONS ARE SHOWN PER INDIANA 811 MARKINGS AS LOCATED BY THE SURVEYOR (BY OTHERS), G.I.S. DATA (IF AVAILABLE), AND UTILITY COMPANY CORRESPONDENCE (IF ANY). ALL UTILITY LOCATIONS, SIZES, MATERIALS, INVERT, DEPTHS, LENGTHS, ETC. ARE CONSIDERED APPROXIMATE AND MAY BE SKEPTICAL IN NATURE.

THE UTILITIES INDICATED ON THESE PLANS MAY NOT BE A COMPETE INVENTORY OF ALL EXISTING UTILITIES CURRENTLY ON OR NEAR THE SITE. THE PATH, SIZE AND LOCATION OF THESE UTILITIES MAY BE APPROXIMATE UNTIL THEY ARE EITHER RELOCATED, BY CALLING INDIANA 811 AND OTHER UTILITY LOCATE COMPANIES, OR UNTIL THEY ARE EXCAVATED TO VERIFY THE LOCATION, DEPTH, AND PATH OF THE UTILITY LINES. LOCATIONS ARE SHOWN PER INDIANA 811 MARKINGS AS LOCATED BY THE SURVEYOR (BY OTHERS), G.I.S. DATA (IF AVAILABLE), AND UTILITY COMPANY CORRESPONDENCE (IF ANY).

NO ASSUMPTIONS WERE MADE CONNECTING UTILITIES OBSERVED AND LOCATED TO OTHER APPURTENANCES OR HOW THEY ENTER OR CONNECT INTO ADJOINING HOUSES OR BUILDINGS UNLESS IDENTIFIED BY THE SURVEYOR PER ONSITE UTILITY MARKINGS OR AS INDICATED BASED ON G.I.S. / UTILITY PLAN DATA. FRITZ ENGINEERING SERVICES, LLC DID NOT ADD, INTERPOLATE, ASSUME, OR DEPICT ANY UTILITY LINE DIRECTIONS OR CONNECTIONS OUTSIDE WHAT WAS PROVIDED. NO ATTEMPT WAS MADE AS PART OF THIS PROJECT TO OBTAIN OR SHOW DATA CONCERNING EXISTENCE, SIZE, DEPTH, CONDITION, CAPACITY, OR LOCATION OF ANY UTILITY, PUBLIC SERVICE FACILITY, OR UTILITY SERVICE LINES TO THE PROPERTY. NO EXCAVATIONS WERE MADE DURING THE COURSE OF THIS PROJECT TO LOCATE UNDERGROUND UTILITIES AND/OR SEWER STRUCTURES.

NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE TO THE ACCURACY AND/OR COMPLETENESS OF INFORMATION PRESENTED ON UNDERGROUND UTILITIES AND SEWERS, OR AS TO ITS FITNESS FOR ANY PARTICULAR PURPOSE OR USE. IN NO EVENT WILL FRITZ ENGINEERING SERVICES, LLC, ITS EMPLOYEES, AGENTS, AND/OR ASSIGNS BE LIABLE FOR ANY DAMAGES ARISING OUT OF THE FURNISHING AND/OR USE OF SUCH INFORMATION.

CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES WITHIN AREA OF WORK PRIOR TO CONSTRUCTION. ENGINEER SHALL BE NOTIFIED OF ANY POTENTIAL CONFLICTS FOUND.

FRITZ ENGINEERING SERVICES
14020 MISSISSINEWA DRIVE
CARMEL, INDIANA 46033
P: 317.324.8695 F: 317.324.8717
www.Fritz-Eng.com

PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS AND ISSUES	DATE	BY

GENERAL NOTES / LEGEND:

"IT'S THE LAW" 811 Know what's below. Call before you dig. 2 WORKING DAYS BEFORE YOU DIG.

PROJECT: GREEN TOUCH MCCORDSVILLE (Green Touch Services)

PROJECT LOCATION:
6312 RAILROAD ST
MCCORDSVILLE, INDIANA 46055
HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE: NE 1/4, S26, T17N, R5E

CLIENT: MacDOUGALL PIERCE CONSTRUCTION
12720 FORD DRIVE
FISHERS, IN 46038

PLAN DATE: 3/8/2024
DESIGN: AF CHECK: AF DRAWN: KG
PROJECT NO. 2308005
SHEET NAME: EXISTING CONDITIONS & DEMOLITION PLAN
SHEET NO. C102

BENCHMARK TABLE		
POINT NO.	ELEVATION	POINT DESCRIPTION
10	854.04	CUT X ON NORTH BONNET BOLT OF HYDRANT LOCATED AT SE CORNER OF DEPOT ST. AND RAILROAD ST.

SURVEY VERTICAL DATUM INFORMATION

The survey vertical datum and vertical control was established in the North American Vertical Datum 1988 (NAVD 88) utilizing survey grade global positioning equipment (GPS), utilizing the INDOT Continuously Operating Reference Station (INCORS), a real-time kinematic (RTK) correction service over the internet. Geoid Model 18 was used for all GPS observations.

SURVEY CONTROL TABLE				
POINT NO.	NORTHING	EASTING	ELEVATION	POINT DESCRIPTION
102	1692628.97	255872.86	845.92	FES SURVEY CONTROL (CAPPED REBAR)
200	1692516.05	256002.09	848.40	FES SURVEY CONTROL (MAG NAIL W/ WASHER)
201	1692425.96	255847.39	852.72	FES SURVEY CONTROL (MAG NAIL W/ WASHER)

FRITZ ENGINEERING SERVICES, LLC (FES) CONTROL NOTES:

- FES Rebar Control = 24 inch by $\frac{5}{8}$ inch diameter rebar with orange cap with stamping flush with grade.
- FES Mag Nail Control = Mag nail with stamped washers.

Control Stamping = "FRITZ ENG. SURVEY CONTROL FIRM #0152"

SURVEY CONTROL AND BASIS OF BEARING INFORMATION

Indiana State Plane Grid - East Zone Zone (N.A.D. 1983):

Unless noted otherwise, all bearings, distances, areas, and coordinates shown hereon are based upon GPS observations, Indiana State Plane Coordinate Grid System (Indiana East Zone - N.A.D. 1983) and are reported in U.S. Survey Feet and decimal parts thereof. Geoid Model 18 was used for all GPS observations.

The survey control were measured with survey grade GPS equipment, with said GPS observations utilizing the INDOT Continuously Operating Reference Station (INCORS) a real-time kinematic (RTK) correction service over the internet. This system is stated by INDOT as "Providing Network RTK in RTCM (Real Time Correction Message) 2.3, and 3.1 in the MAX (R2K2 Full) and i-MAX (R2K2 LITE) formats via NTRIP (Networked Transport of RTCM via Internet) and TCP/IP, as well as CMR and CMR+ in the MAX (R2K2 Full) and i-MAX (R2K2 LITE) formats via NTRIP, and TCP/IP." Where GPS observations could not be performed or data collected, electronic total stations applying standard radial surveying techniques were utilized to establish additional secondary control.

TOPOGRAPHIC SURVEY DISCLAIMERS

BOUNDARY ANALYSIS DISCLAIMER:

This survey represents a topographic survey only. This survey, map, plat, or drawing is not intended to represent a retracement or original boundary survey (as defined in Title 865 of the Indiana Administrative Code as an "original survey" or "retracement survey"), an ALTA / NSPS Land Title Survey, Location Control Route Survey, or a Surveyor's Location Report. No boundary analysis was performed for this survey and all apparent boundary lines, right-of-way, alignments, easements, etc., that are shown on this survey are for reference only and are approximate/speculative in nature and shall be treated as such. Documentation (or lack thereof) regarding right of way, easements, or encumbrances shown on this survey does not constitute right of way clearance. No title work or title and encumbrance reports were examined for this survey. It is upon the owner, client or engineer to determine if a boundary survey is necessary or if any encumbrances, such as easements, exist onsite or within the survey limits.

SEWER STRUCTURE DETAILS (MEASURE DOWN) INFORMATION AND DISCLAIMERS:

Unless otherwise stated, sewer measurements were performed with limited access. Field measurements were determined as physically observed (sometimes with limited visibility) and without confined space entry. Pipe sizes and measurements under certain conditions may be provided from other sources (as stated) in electronic format via GIS data or from record drawings provided by other agencies.

Storm, sanitary, or combined sewers were located per visible, observed evidence only. Excavations of sewers, or corresponding structures, were not conducted by Fritz Engineering Services, LLC. Sewer pipe lengths as shown per this survey are from each field located shot of the structures and are not shortened or lengthened to adjust for the size, orientation, or shape of structures, and therefore the pipe lengths as depicted on this survey are approximate.

Measure down data (Structure Details) for sewer structures is considered approximate, and while extensive effort was made to get all pertinent information and measurements for each sewer structure, physical and safety issues do cause limitations in the ability to always collect and measure accurately the field data associated with each structure. Depth, orientation, and condition of the structures and incoming pipes can make determining sizes, material types, and inverts difficult to determine or evaluate. Fritz Engineering Services, LLC employees do not enter sewer structures to collect and measure data due to safety, health, and liability issues. Fritz Engineering Services, LLC, its employees, agents, and/or assigns shall not be held liable or their work be considered incomplete if discrepancies are found between the measure down data collected for this project and onsite field checks and/or observations performed by other parties. For some sewer structures, the accuracies for inverts may have an uncertainty up to 0.5 feet and pipe sizes may vary up or down one pipe size.

UTILITY NOTES AND DISCLAIMERS:

The utilities indicated on this survey may NOT be a compete inventory of all existing utilities currently on or near the site. The path, size and location of these utilities may be approximate until they are either relocated, by calling Indiana 811 and other utility locate companies, or until they are excavated to verify the location and path of the utility lines. Indiana 811 was contacted for this survey and therefore only public utilities were marked. Private utility locates were NOT contacted for this survey. Only what was marked by the utility companies via Indiana 811 were field located and shown on the survey. No assumptions were made connecting utilities observed and located to other appurtenances or how they enter or connect into adjoining houses or buildings unless observed or identified by Indiana 811. Fritz Engineering Services, LLC did not add, interpolate, assume, or depict in the survey any utility line directions or connections outside what was marked by utility field locates and locators. No attempt was made as part of this survey to obtain or show data concerning existence, size, depth, condition, capacity, or location of any utility, public service facility, or utility service lines to the property. No excavations were made during the course of this survey to locate underground utilities and/or sewer structures. Before design or construction is to begin, locations should be confirmed with the appropriate agencies.

Underground utilities depicted on the attached survey have been located per field observations and/or per site plans only. No warranty, either expressed or implied, is made to the accuracy and/or completeness of information presented on underground utilities, or as to its fitness for any particular purpose or use. In no event will Fritz Engineering Services, LLC, its employees, agents, and/or assigns be liable for any damages arising out of the furnishing and/or use of such information.

GENERAL INFORMATION AND DISCLAIMERS:

1. When the field work was performed, access to houses/buildings were not all available. Where finish floor elevations (FFE) were field measured where inside access was not permitted, the FFE measurements were done at the lip of the doors, and not inside the structure itself. This could result in a slight discrepancy from the true FFE of the building structure, and therefore and FFE's shown on the survey are approximate.
2. Removable objects, like fire pits, lawn furniture, playgrounds, sports equipment, etc. generally are not located and shown for this survey.
3. Trees are typically located individually except where they were either in small clusters or formed a semi-straight wood / tree line. In these scenarios, the outside limits of the tree clusters are generally located, and a visual best-fit line of the tree lines are identified, not the individual trees themselves. This topographic survey is not intended to be used as a tree inventory survey and any information assigned to the trees is preliminary in nature.
4. Subsurface utilities, storage and environmental conditions were not examined or considered as a part of this survey.
5. No warranty, either expressed or implied, is made as to the accuracy and/or completeness of information provided by governmental authorities and/or third parties, or as to its fitness for any particular purpose or use, including but not limited to information presented on zoning, setback requirements, flood hazard zones, utilities, and wetlands areas. In no event will Fritz Engineering Services, LLC, its employees, agents, and/or assigns be liable for any damages arising out of the furnishing and/or use of such information.
6. Since the date of this survey, changes in site conditions may have occurred that are beyond the knowledge or control of the undersigned surveyor and may have altered the validity and circumstances shown or noted herein.
7. As used in this survey, certify means to state or declare a professional opinion of conditions regarding those facts or findings which are the subject of the certification and does not constitute a warranty or guarantee, either expressed or implied.

FRITZ
ENGINEERING SERVICES
14020 MISSISSINEWA DRIVE
CARMEL, INDIANA 46033
P: 317.324.8695 F: 317.324.8717
www.Fritz-Eng.com

PRELIMINARY
NOT FOR
CONSTRUCTION

REVISIONS AND ISSUES	DATE	BY

GENERAL NOTES / LEGEND:

"IT'S THE LAW"
811
Know what's below.
Call before you dig.
2 WORKING DAYS BEFORE YOU DIG.

PROJECT:
Green Touch Services
GREEN TOUCH
MCCORDSVILLE

PROJECT LOCATION:
6312 RAILROAD ST
MCCORDSVILLE, INDIANA 46055
HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE:
NE $\frac{1}{4}$, S26, T17N, R5E

CLIENT:
MacDOUGALL PIERCE CONSTRUCTION
12720 FORD DRIVE
FISHERS, IN 46038

PLAN DATE: 3/8/2024

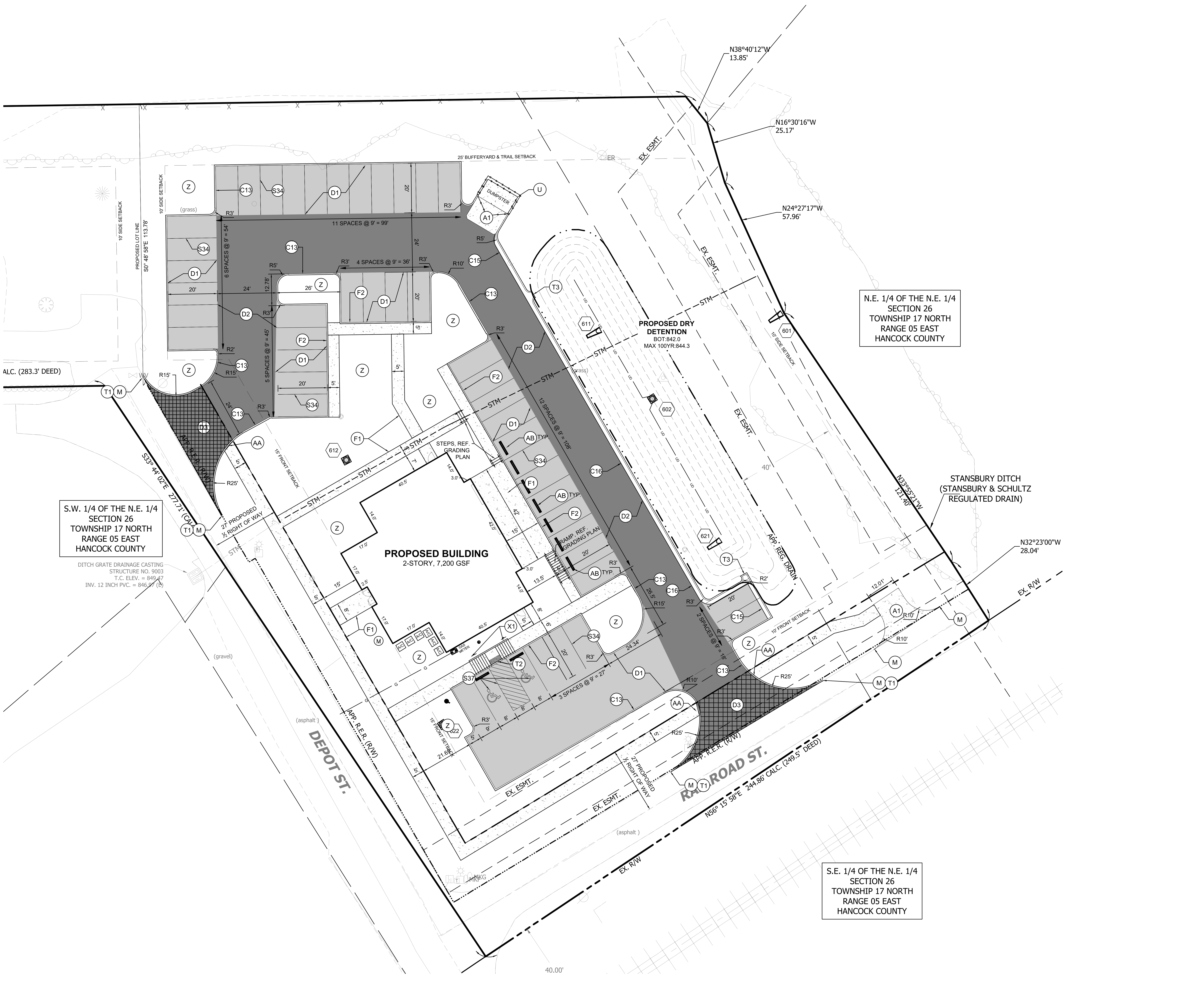
DESIGN:	CHECK:	DRAWN:
AF	AF	KG

PROJECT NO. 2308005

SHEET NAME
SURVEY INFO

SHEET NO.
C103

PRINTED BY: Andrew Fritz
DATE: 3/7/2024 9:40 AM
SHEET SIZE: ARCH D (24.00 X 36.00 INCHES) 1:1
FILE NAME: F:\2023\2308005 - GREEN TOUCH MCCORDSVILLE\03 CIVIL PLANS\C103.DWG, LAYOUT: EXISTING CONDITIONS & SURVEY INFO



KEY NOTES: (XX)

A1	CONCRETE PAVEMENT	
C13	CONCRETE 6 INCH "STRAIGHT" CURB	
C15	CONCRETE CHAIRBACK CURB AND GUTTER	
C16	CURB AT TOP OF SLOPE	
D1	LIGHT DUTY ASPHALT PAVEMENT	
D2	HEAVY DUTY ASPHALT PAVEMENT	
D3	PUBLIC RIGHT-OF-WAY GOVERNING MUNICIPALITY ASPHALT PAVEMENT	
E	EXISTING CURB / PAVEMENT / SIDEWALK TO REMAIN	
F1	CONCRETE SIDEWALK	
F2	CONCRETE INTEGRAL / MONOLITHIC CURB AND WALK	
I	INLET / CASTING CONCRETE COLLAR APRON	
K	ROADWAY PAVEMENT REPAIR CUTS (FULL DEPTH AS REQUIRED) FOR UTILITY TRENCH CONSTRUCTION. PAVEMENT TYPE, LIMITS, AND SUB-GRADE SHALL MATCH THE GOVERNING MUNICIPALITY REPAIR CUT RIGHT-OF-WAY DETAILS. THE BACKFILL REQUIREMENTS FOR THE TRENCH SHALL MEET THE CORRESPONDING UTILITY REQUIREMENTS FOR THAT TYPE OF PIPE INSTALLATION. THE PAVEMENT SHALL MATCH EXITING GRADES.	
L	EXTERIOR LIGHTS. VERIFY FINAL LOCATION WITH PHOTOMETRIC PLAN.	
M	MATCH INTO EXISTING	
S34	4 INCH SOLID WHITE PAVEMENT STRIPING (TYP.)	
S37	ADA BLUE PAVEMENT STRIPING AND MARKINGS	
S38	WHITE PAVEMENT CROSSWALK TRANSVERSE MARKING	
T1	CURB TAPER	
T2	FLUSH CURB FOR RAMP TRANSITION	
T3	CURB TURNOUT / CHUTE	
U	DUMPSTER ENCLOSURE (SEE ARCHITECTURAL PLANS)	
X1	HANDICAP PARKING SIGN	
Y	BICYCLE PARKING	
Z	LANDSCAPE AREA	
AA	SIDEWALK TRANSITION AT COMMERCIAL DRIVE (REF. INDOT DETAILS)	
AB	CONCRETE PARKING BARRIER	

FRITZ
ENGINEERING SERVICES
14020 MISSISSINEWA DRIVE
CARMEL, INDIANA 46033
P: 317.324.8695 F: 317.324.8717
www.Fritz-Eng.com

PRELIMINARY NOT FOR CONSTRUCTION

K

REVISIONS AND ISSUES	DATE	BY
----	----	----

GENERAL NOTES / LEGEND:

"IT'S THE LAW"
811
Know what's below.
Call before you dig.
2 WORKING DAYS BEFORE YOU DIG.

PROJECT:
Green Touch Services
GREEN TOUCH MCCORDSVILLE

PROJECT LOCATION:
6312 RAILROAD ST
MCCORDSVILLE, INDIANA 46055
HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE:
NE $\frac{1}{4}$, S26, T17N, R5E

CLIENT:
MacDOUGALL PIERCE CONSTRUCTION
12720 FORD DRIVE
FISHERS, IN 46038

PLAN DATE: 3/8/2024

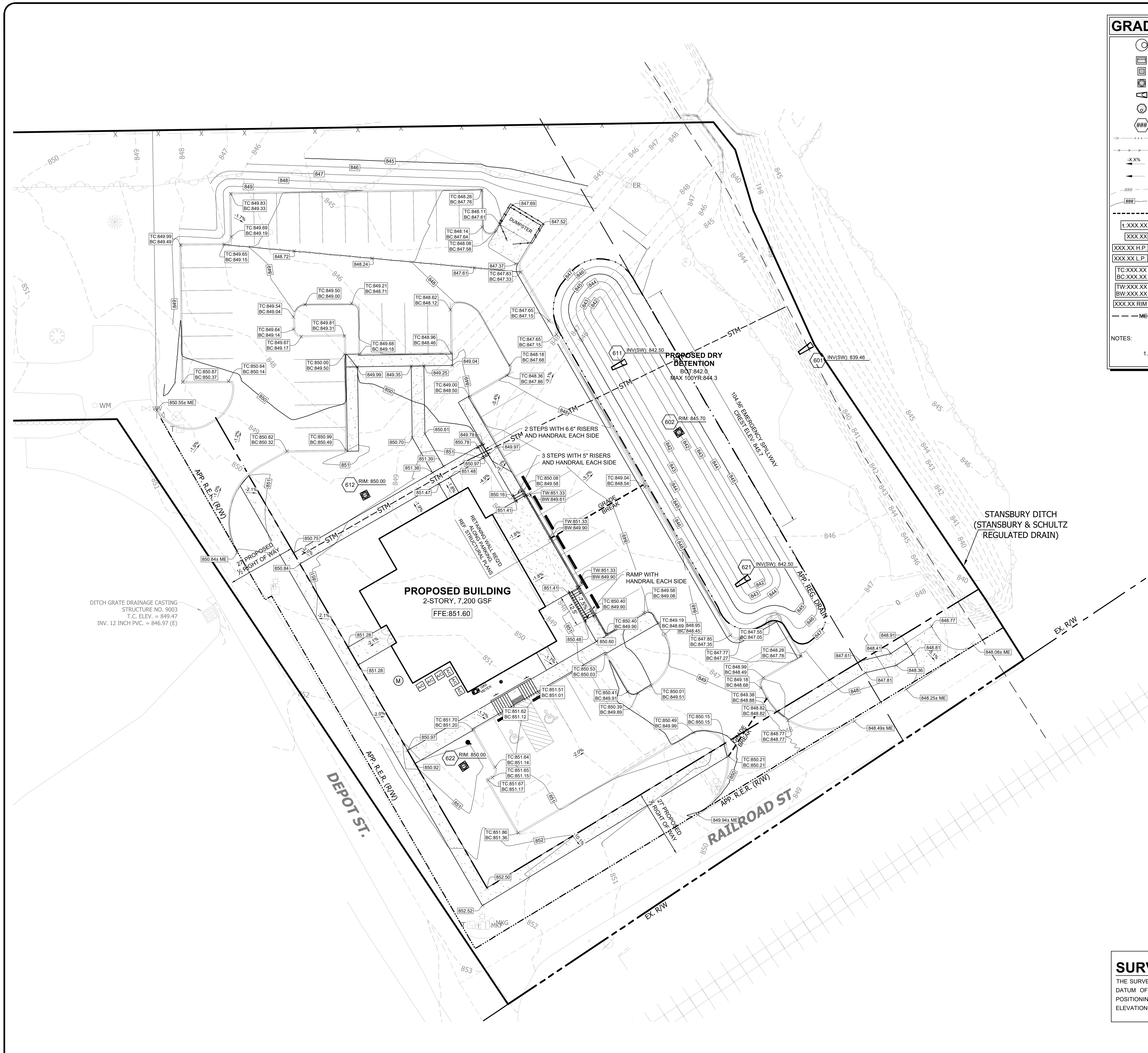
DESIGN:	CHECK:	DRAWN:
AF	AF	KG

PROJECT NO. 2308005

SHEET NAME
SITE PLAN

SHEET NO.
C201

PRINTED BY: Ashton Fritz
DATE: 3/7/2024 9:41 AM
SHEET SIZE, SCALE: ANSI FULL BLEED D (34.00 X 22.00 INCHES), 1:1
FILE NAME: F:\2023\2308005 - GREEN TOUCH MCCORDSVILLE\03 CIVIL\PLANS\C201.DWG, LAYOUT: C201 - SITE PLAN



GRADING LEGEND:

- STORM MANHOLE
- STORM COMBINATION/CURB INLET
- STORM AREA INLET
- STORM BEEHIVE/YARD INLET
- STORM FLARED END SECTION
- STORM MECHANICAL SEPARATOR (REF. PLAN FOR SIZE/TYPE)
- ### STORM STRUCTURE NUMBER
- FLOW LINE, SWALE / GRASS
- FLOW LINE, PAVEMENT
- X.X% SLOPE / RAMP SLOPE
- SURFACE DRAINAGE FLOW ARROW DIRECTION
- ### EXISTING CONTOUR AND LABEL
- ### PROPOSED CONTOUR AND LABEL
- GRADE BREAK
- f:XXX.XX FLOW LINE / SWALE SPOT ELEVATION
- XXX.XX SPOT ELEVATION
- XXX.XX H.P SPOT ELEVATION, HIGH POINT
- XXX.XX L.P SPOT ELEVATION, LOW POINT
- TC:XXX.XX / BC:XXX.XX TC- TOP OF CURB ELEVATION / BC - BOTTOM OF CURB/GUTTER ELEVATION
- TW:XXX.XX / BW:XXX.XX TW - TOP OF WALL ELEVATION / BW - BOTTOM OF WALL ELEVATION
- XXX.XX RIM CASTING RIM ELEVATION
- ME MATCH EXISTING ELEVATION
- CONSTRUCTION LIMIT LINE

NOTES:

1. REF. C101 FOR ABBREVIATIONS AND ADDITIONAL LEGEND INFORMATION.

N

0 20' 40'

SCALE: 1" = 20'

SURVEY VERTICAL DATUM INFORMATION:

THE SURVEY AND THIS PROJECT ELEVATIONS ARE ESTABLISHED BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). THE VERTICAL DATUM WAS ESTABLISHED BY THE SURVEYOR PER GLOBAL POSITIONING SYSTEM (GPS) OBSERVATIONS UTILIZING INCORS NETWORK AND GEOID18. THEREFORE, THE ELEVATIONS, CONTOURS AND GRADES SHOWN ON THIS SHEET AND PLAN SET ARE IN NAVD88.

FRITZ ENGINEERING SERVICES
14020 MISSISSINEWA DRIVE
CARMEL, INDIANA 46033
P: 317.324.8695 F: 317.324.8717
www.Fritz-Eng.com

PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS AND ISSUES	DATE	BY

GENERAL NOTES / LEGEND:

"IT'S THE LAW"
811
Know what's below. Call before you dig.
2 WORKING DAYS BEFORE YOU DIG.

PROJECT:
GREEN TOUCH MCCORDSVILLE
Green Touch Services

PROJECT LOCATION:
6312 RAILROAD ST
MCCORDSVILLE, INDIANA 46055
HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE:
NE ¼, S26, T17N, R5E

CLIENT:
MacDOUGALL PIERCE CONSTRUCTION
12720 FORD DRIVE
FISHERS, IN 46038

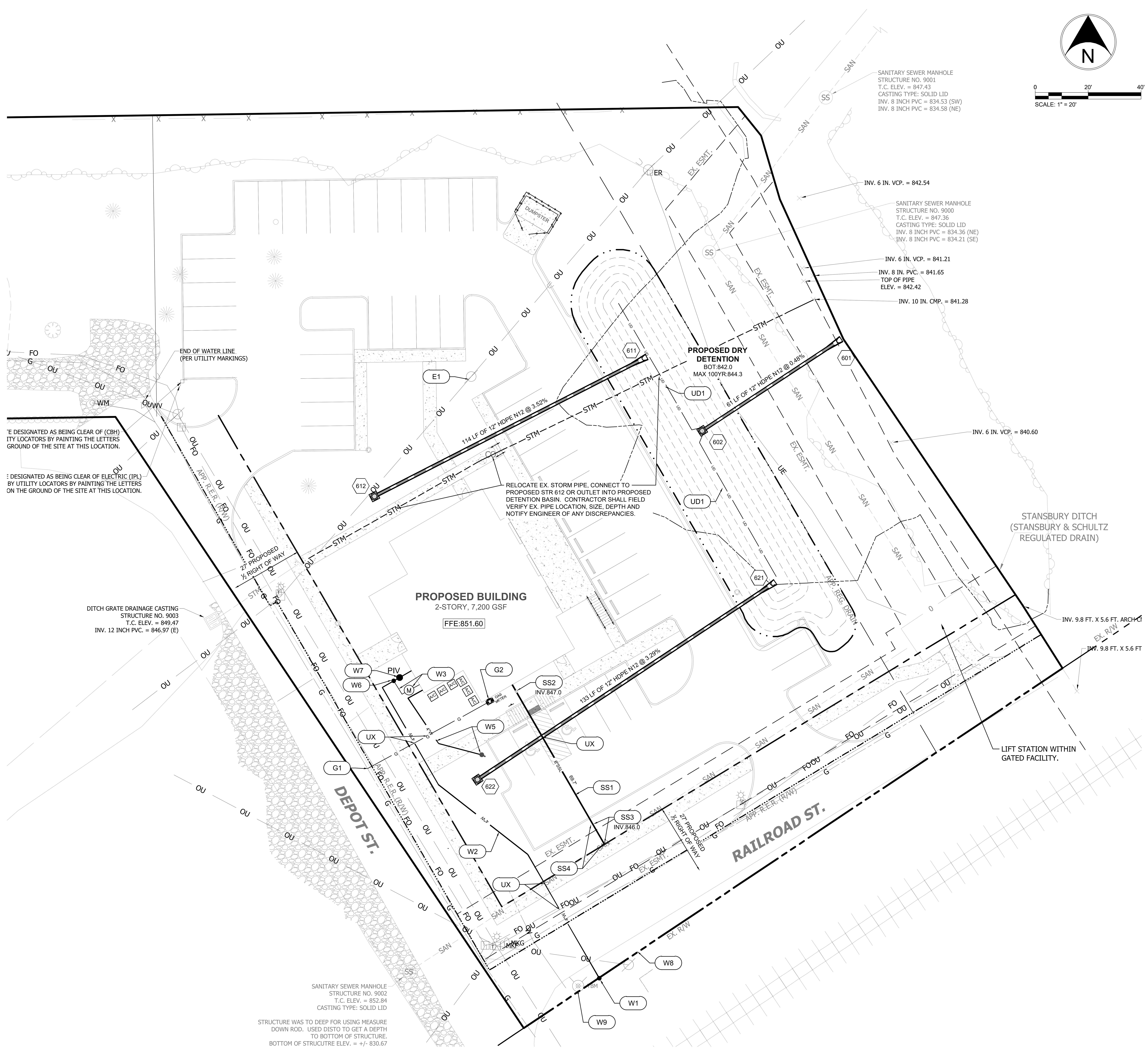
PLAN DATE: 3/8/2024

DESIGN:	CHECK:	DRAWN:
AF	AF	KG

PROJECT NO. 2308005

SHEET NAME: GRADING PLAN

SHEET NO. C301



KEY NOTES: (XX)

E1 ELECTRIC - NEW TRANSFORMER, COORDINATE NEW SERVICE LINE WITH M.E.P. PLANS AND POWER UTILITY COMPANY.

E2 ELECTRIC - PROPOSED SERVICE LINE. COORDINATE WITH ELECTRIC COMPANY AND FINALIZE BUILDING CONNECTION WITH ARCHITECTURAL / M.E.P. PLANS.

E3 ELECTRIC - SECONDARY CONDUIT, COORDINATE WITH M.E.P. PLANS FOR SIZE AND CABLE REQUIRED. COORD. WITH POWER UTILITY COMPANY AS REQUIRED.

E4 ELECTRIC - COORDINATE POWER DISTRIBUTION ONSITE WITH M.E.P. / SITE ELECTRICAL PLAN.

G1 GAS - GAS SERVICE LINE, COORDINATE SIZE & LOCATION WITH M.E.P. PLANS AND GAS COMPANY.

G2 GAS - GAS METER, COORD WITH M.E.P. PLANS & GAS COMPANY.

SS1 SANITARY - 6 INCH DIAMETER SDR 26 PVC LATERAL @ 1.04% MINIMUM. LATERAL INSTALLATION SHALL INCLUDE FULL DEPTH GRANULAR BACKFILL WHERE LOCATED UNDER PAVED AREAS AND SHALL HAVE TRACER WIRE INSTALLED FROM THE BUILDING CLEANOUT TO THE MAIN CONNECTION IN ACCORDANCE WITH MCCORDSVILLE SANITARY STANDARDS.

SS2 SANITARY - BUILDING CLEANOUT PER MCCORDSVILLE SANITARY STANDARDS, SEE PLAN FOR INVERTS. CLEANTOUTS SHALL MATCH SIZE OF LATERAL PIPE UP TO A MAXIMUM 8 INCHES. CLEANOUT SHALL BE LOCATED 36 INCHES FROM BUILDING.

SS3 SANITARY - CONNECT PROPOSED LATERAL TO EXISTING SANITARY LATERAL NEAR RIGHT-OF-WAY LINE. HORIZONTAL LOCATION PER SURVEY INTERPOLATION. LATERAL STUB CONNECTION INVERT ELEVATION CALCULATED AND NOT FIELD VERIFIED, AND THEREFORE INVERT SHALL BE CONSIDERED "PRELIMINARY" IN NATURE. CONTRACTOR TO VERIFY EXACT LOCATION, SIZE, MATERIAL, AND DEPTH OF EXISTING LATERAL PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES. UPSTREAM EXISTING LATERAL TO BE ABANDONED SHALL BE REMOVED.

THE EXISTING INVERT OF THE EXISTING LATERAL AT THE PROPOSED CONNECTION POINT SHALL BE **845.0** OR LOWER. IF THE CONNECTION INVERT IS HIGHER THAN REQUIRED AS STATED, THE MINIMUM PROPOSED LATERAL PIPE SLOPE AND COVER MAY NOT BE ABLE TO BE MAINTAINED THROUGHOUT THE SITE UP TO THE BUILDING CONNECTION PER PLANS AND PER MCCORDSVILLE SANITARY STANDARDS. CONTACT ENGINEER IMMEDIATELY.

SS4 SANITARY - CCTV INVESTIGATION REQUIRED FOR EXISTING LATERAL STUB / TIE-IN CONNECTION. CCTV INVESTIGATION FILE MUST BE AVAILABLE FOR THE LATERAL INSPECTION. COORDINATE WITH SEWER COMPANY.

6XX STORM - PROPOSED STRUCTURE, REFERENCE STORM STRUCTURE TABLE (6XX)

RD1 ROOF DRAINS - BUILDING DOWNSPOUT LOCATIONS, VERIFY WITH ARCHITECTURE PLAN. NO ROOF DRAIN CONNECTIONS PROPOSED FOR THIS PROJECT. DOWNSPOUTS TO DRAIN ONTO SPLASH PADS AT GRADE AS SPECIFIED BY THE OWNER. SEE ARCHITECTURE OR LANDSCAPE PLANS FOR SPLASH PAD TYPES.

RD1 ROOF DRAINS - BUILDING CONNECTION AND CLEANOUT. REFERENCE M.E.P. PLANS FOR EXACT SIZE AND LOCATION OF ROOF DRAIN DOWNSPOUT. CLEANOUT TO BE LOCATED APPROX. ## FEET FROM THE BUILDING. SEE ROOF DRAIN / DOWNSPOUT DETAILS FOR FURTHER INFORMATION.

RD2 ROOF DRAINS - COLLECTOR PIPE LINE. SEE PLANS FOR LENGTH.
SEE PLANS FOR MATERIAL, SIZE AND SLOPE.
OR
(# INCH DIAMETER HDPE N-12 AT 1.00% MINIMUM SLOPE)

UD1 UNDERDRAIN - 6 INCH DIA. PERFORATED HDPE UNDERDRAIN AS SPECIFIED FOR DRY DETENTION FACILITY. SEE DETAILS FOR UNDERDRAIN PLACEMENT SPECIFICATIONS. CONNECT TO ADJACENT DRAINAGE STRUCTURES AS ILLUSTRATED.

W1 WATER - PROPOSED 4 INCH TAPPING SLEEVE VALVE & BOX ON EXISTING 8 INCH WATER MAIN. COORDINATE TAP WITH CITIZENS (WATER COMPANY).

W2 WATER - PROPOSED 4 INCH PVC C900 FIRE SERVICE LINE.

W3 WATER - PROPOSED 1 INCH DOMESTIC SERVICE TAP ON NEW 4 INCH PRIVATE WATER SERVICE WITH ISOLATION VALVE AND ¾" METER PIT PER CITIZENS STANDARDS.

W5 WATER - 4 INCH DIAMETER PRIVATE FIRE CONNECTION LINE, PVC C900 OR APPROVED EQUAL, WITH FIRE DEPARTMENT CONNECTION APPURTENANCE. COORDINATE FINAL LOCATION WITH LOCAL FIRE DEPARTMENT.

WATER - FIRE DEPARTMENT CONNECTION WITH 4 INCH FIRE WATERLINE PER LOCAL FIRE DEPARTMENT REQUIREMENTS AND CITIZENS WATER STANDARDS (WATER UTILITY COMPANY).

W6 WATER - ISOLATION VALVE PER CITIZENS WATER STANDARDS.

W7 WATER - POST INDICATOR VAVLE. VERIFY TYPE AND FINAL LOCATION WITH GOVERNING WATER COMPANY AND LOCAL FIRE DEPARTMENT.

W8 WATER - EXISTING WATER MAIN TO REMAIN. FIELD LOCATE EXACT LOCATION PRIOR TO CONSTRUCTION. PROTECT THROUGHOUT CONSTRUCTION.

W9 WATER - EXISTING FIRE HYDRANT TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.

UX UTILITY CROSSING, APPROXIMATE LOCATION SHOWN. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL EXISTING UTILITIES WITHIN AREA OF WORK PRIOR TO CONSTRUCTION. ENGINEER SHALL BE NOTIFIED OF ANY POTENTIAL CONFLICTS FOUND.

NOTES:

1. UTILITY CROSSINGS UNDER EXISTING PAVEMENT SHALL BE DIRECTIONAL BORED OR JACK & BORED. OPEN CUTS SHALL BE AVOIDED.

2. ALL NEW STORM STRUCTURES WITH OPEN GRATES WITHIN PAVED AREAS SHALL HAVE CONCRETE COLLARS. REFERENCE DETAILS.

3. ALL PROPOSED END SECTIONS SHALL HAVE TOE ANCHORS AND ANIMAL GUARDS INSTALLED.

4. CONTRACTOR TO VERIFY ROOF DRAIN / DOWNSPOUT LOCATIONS PER ARCH. / M.E.P. PLANS AND ADJUST ROOFDRAIN CONNECTIONS AND HEADER / COLLECTOR PIPES ACCORDINGLY. ALL ROOF DRAINS TO BE CAPTURED AND DRAIN INTO THE PROPOSED STORM SEWER SYSTEM AND ROUTED THROUGH WATER QUALITY UNIT / DETENTION FACILITY.

5. SANITARY LATERALS SHALL MAINTAIN 4 FEET OF COVER.

6. WHERE SANITARY SEWER / LATERAL RUNS UNDER OR WITHIN 5 FEET OF HARDSCAPES (PAVEMENT SURFACES), SEWER PIPING MUST BE BACKFILLED WITH GRANULAR MATERIAL. SEE CORRESPONDING SANITARY COMPANY STANDARDS, SPECIFICATIONS AND DETAILS.

7. TEN (10) GAUGE TRACER WIRE PLACED ON TOP OF SEWER PIPING OR LATERALS FROM THE BUILDING CLEANOUT TO TO THE DOWNSTREAM CONNECTION POINT REQUIRED FOR ENTIRE LENGTH OF SEWER PIPING / LATERALS. SEE DETAILS.

8. SEE SANITARY, STORM AND UTILITY NOTES FOR ADDITIONAL INFORMATION.

9. SEE STORM AND SANITARY SEWER STRUCTURE AND PIPE TABLES FOR SEWER STRUCTURE INFORMATION, INVERTS, RIM / CASTING ELEVATIONS, AND PIPE MATERIALS, SIZES AND LENGTHS.

10. ALL WATERLINES SHALL MAINTAIN A MINIMUM OF 54 INCHES OF COVER.

11. CONTRACTOR TO COORDINATE ALL WATERLINE CONNECTIONS, PIPE TYPE AND DIAMETERS, APPURTENANCES, ETC. WITH M.E.P. / ARCHITECTURAL PLANS, GOVERNING WATER UTILITY COMPANY, AND LOCAL FIRE DEPARTMENT (REGARDING FIRE WATERLINES AND APPURTENANCES).

12. SANITARY SEWERS AND / OR LATERALS, ALL WATERLINES, AND STORM SEWERS (INCLUDING UNDERDRAINS) SHALL MAINTAIN 10 FEET MINIMUM HORIZONTAL SEPARATION AND 18 INCHES MINIMUM VERTICAL SEPARATION BETWEEN EACH OTHER AS MEASURED FROM EXTERIOR PIPE WALLS.

FRITZ ENGINEERING SERVICES
14020 MISSISSINEWA DRIVE
CARMEL, INDIANA 46033
P: 317.324.8695 F: 317.324.8717
www.Fritz-Eng.com

PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS AND ISSUES	DATE	BY

GENERAL NOTES / LEGEND:

"IT'S THE LAW"
811
Know what's below. Call before you dig.
2 WORKING DAYS BEFORE YOU DIG.

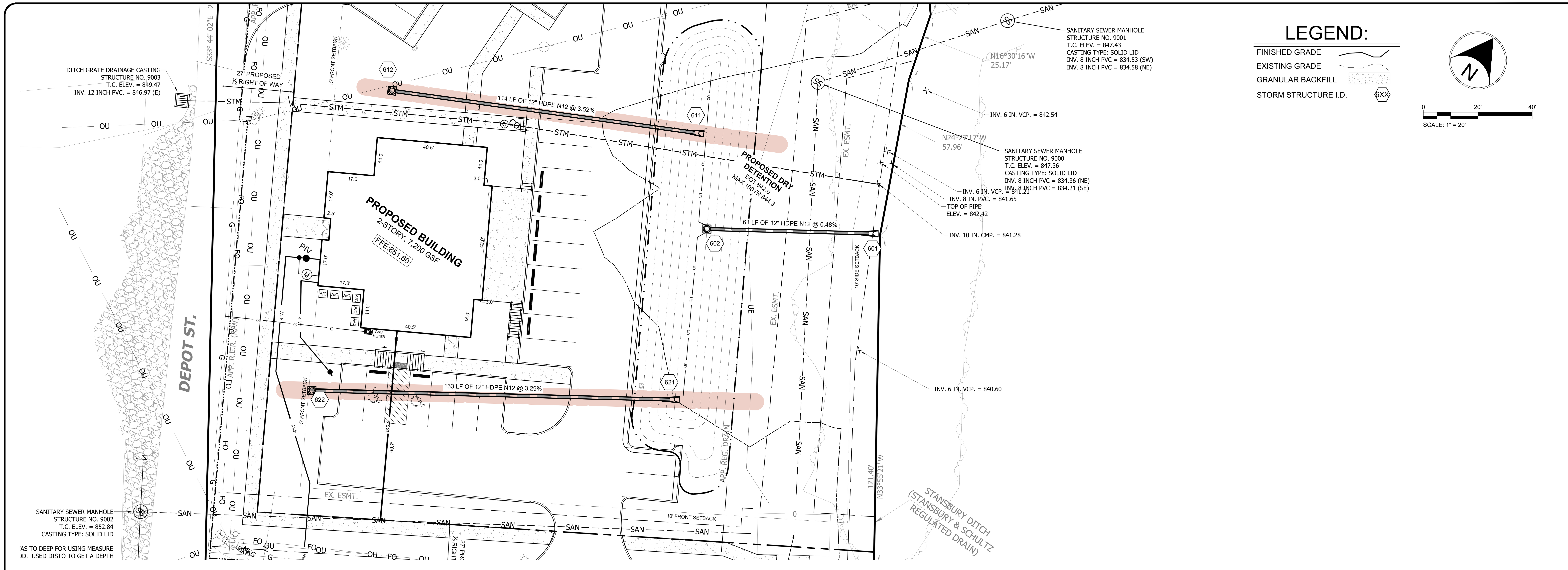
PROJECT:
GREEN TOUCH MCCORDSVILLE

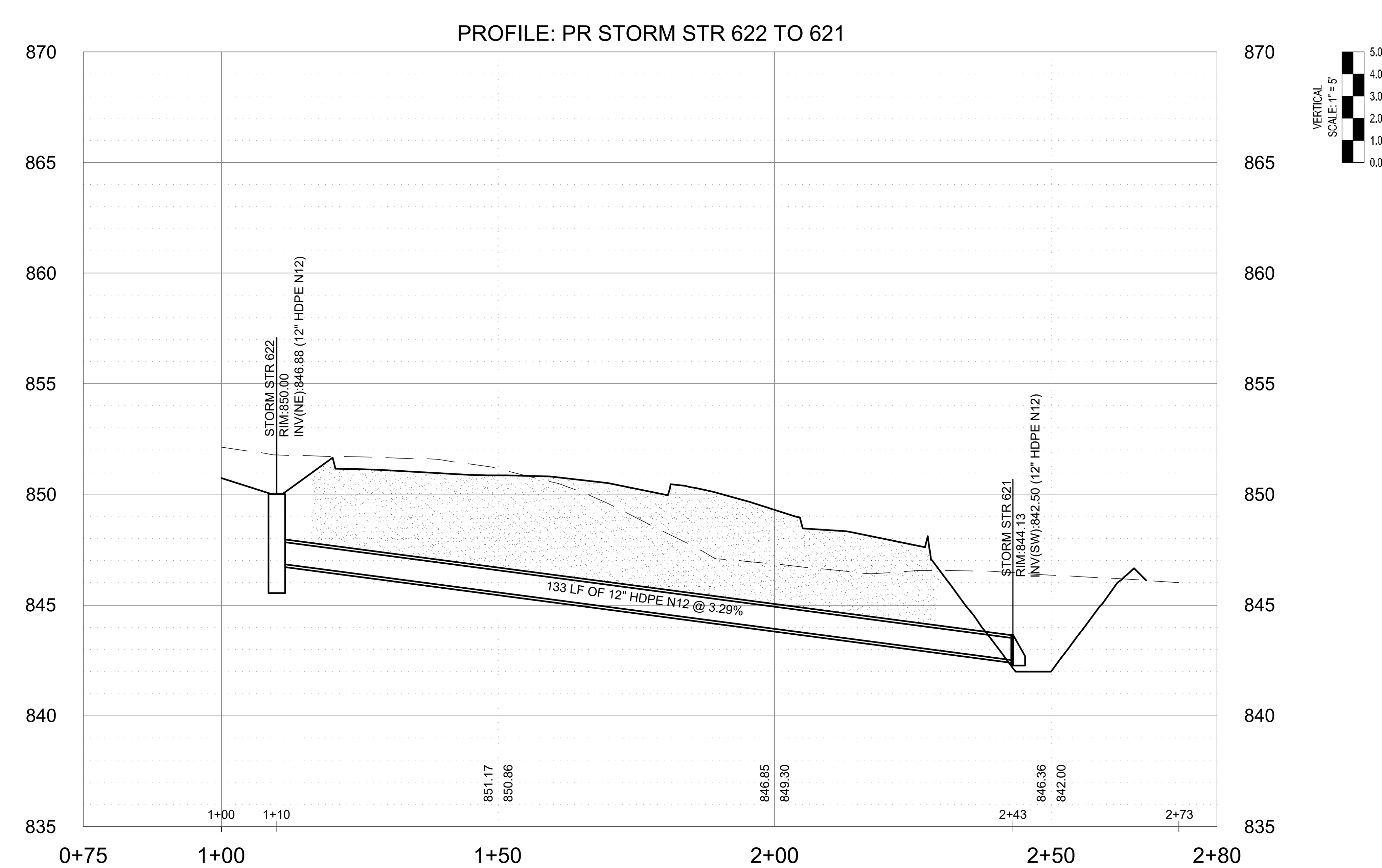
PROJECT LOCATION:
6312 RAILROAD ST
MCCORDSVILLE, INDIANA 46055
HANCOCK COUNTY

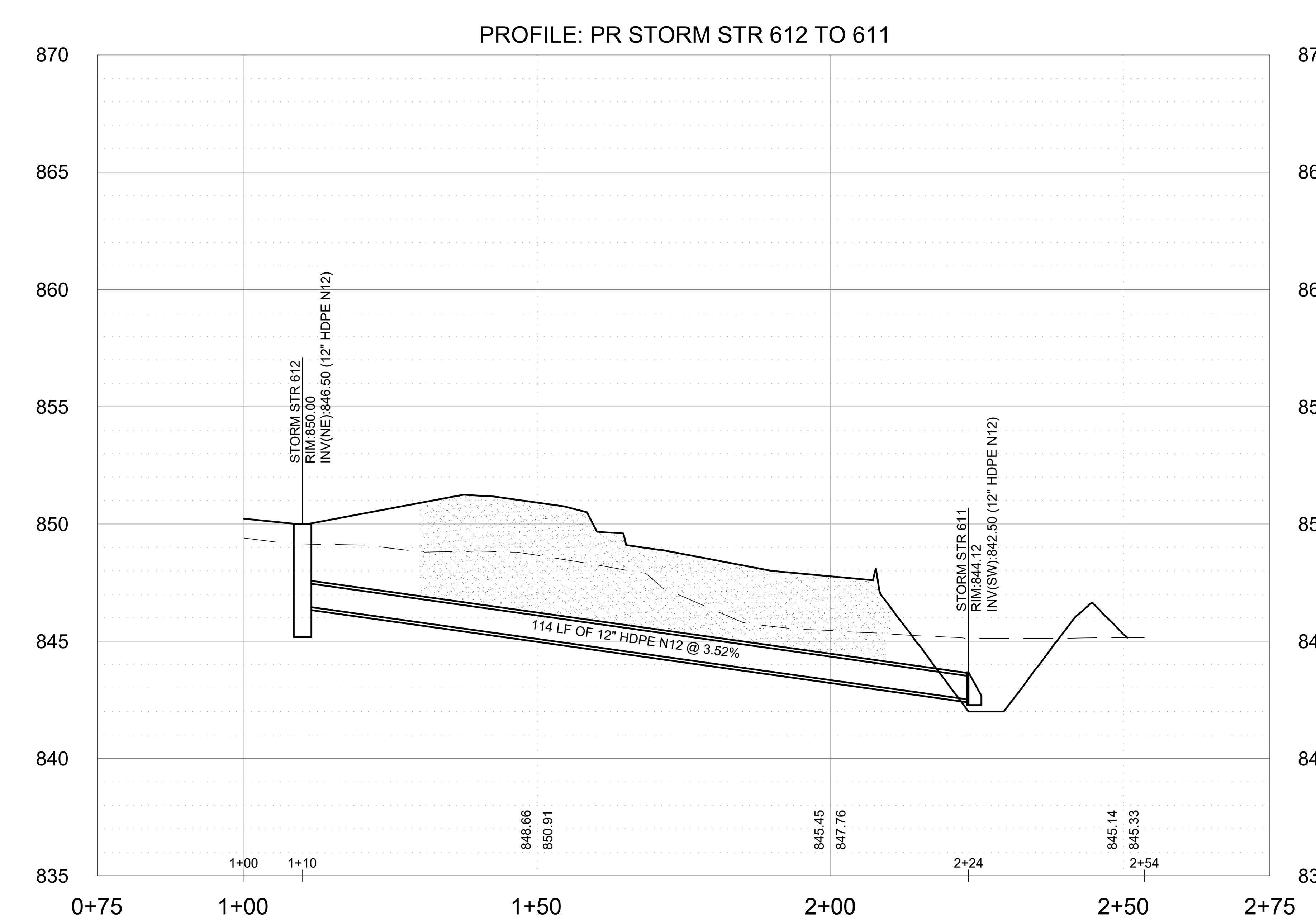
SECTION, TOWNSHIP, RANGE:
NE ¼, S26, T17N, R5E

CLIENT:
MacDOUGALL PIERCE CONSTRUCTION
12720 FORD DRIVE
FISHERS, IN 46038

PLAN DATE: 3/8/2024
DESIGN: AF | CHECK: AF | DRAWN: KG
PROJECT NO. 2308005
SHEET NAME: UTILITY & DRAINAGE PLAN
SHEET NO. C401







FRITZ ENGINEERING SERVICES
14020 MISSISSINEWA DRIVE
CARMEL, INDIANA 46033
P: 317.324.8695 F: 317.324.8717
www.Fritz-Eng.com

PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS AND ISSUES	DATE	BY

GENERAL NOTES / LEGEND:

"IT'S THE LAW"
811
Know what's below.
Call before you dig.
2 WORKING DAYS BEFORE YOU DIG.

PROJECT:
GREEN TOUCH MCCORDSVILLE
Green Touch Services

PROJECT LOCATION:
6312 RAILROAD ST
MCCORDSVILLE, INDIANA 46055
HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE:
NE ¼, S26, T17N, R5E

CLIENT:
MacDOUGALL PIERCE CONSTRUCTION
12720 FORD DRIVE
FISHERS, IN 46038

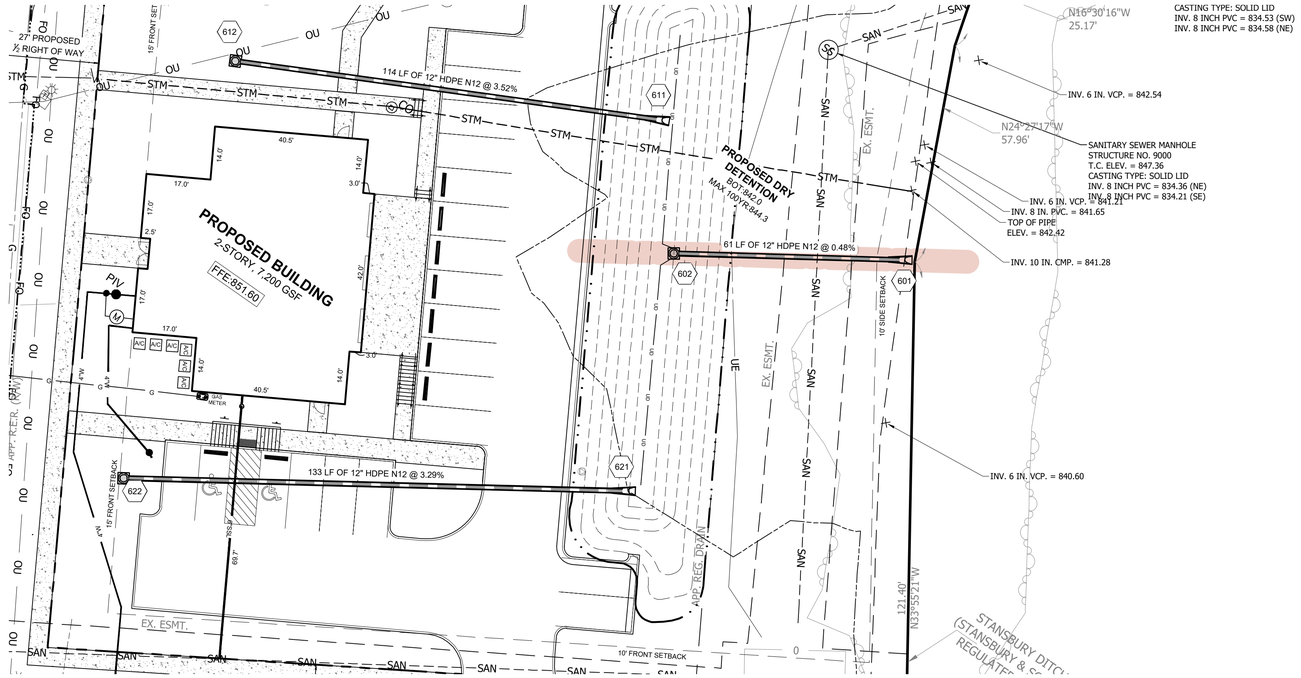
PLAN DATE: 3/8/2024

DESIGN:	CHECK:	DRAWN:
AF	AF	KG

PROJECT NO. 2308005

SHEET NAME
STORM PLAN & PROFILES

SHEET NO.
C402



LEGEND:

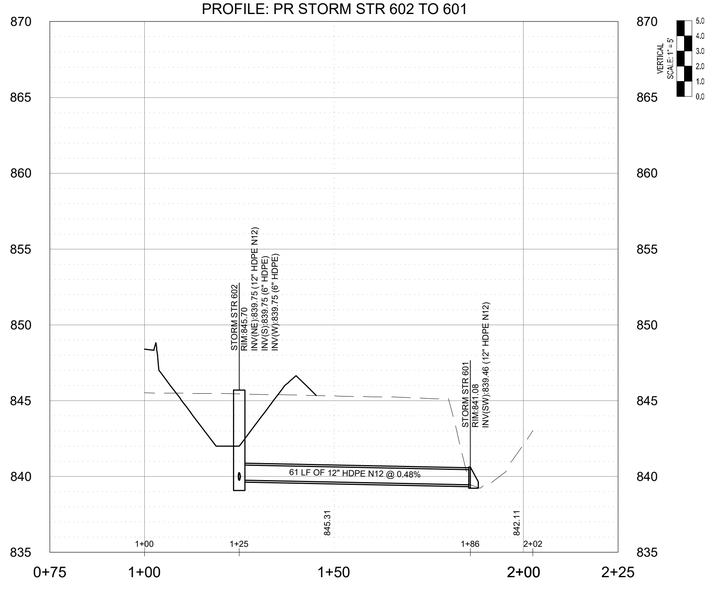
- FINISHED GRADE
- EXISTING GRADE
- GRANULAR BACKFILL
- STORM STRUCTURE I.D. (6XX)

N

0 20' 40'

SCALE: 1" = 20'

PROFILE: PR STORM STR 602 TO 601



STORM STRUCTURE DATA TABLE

STRUCTURE I.D.	RIM ELEVATION	NEENAH CASTING DESIGNATION	INFLOW INV, SIZE, (DIRECTION), [UP STR.]	OUTFLOW INV, SIZE, (DIRECTION), [DOWN STR.]	DESCRIPTION & NOTES
622	850.00	R-4342		INV:846.88 12" HDPE N12 (NE)[621]	30"X30" BOX INLET
621			INV:842.50 12" HDPE N12 (SW)[622]		12" END SECTION W/ ANIMAL GUARDS
612	850.00	R-4342		INV:846.50 12" HDPE N12 (NE)[611]	30"X30" BOX INLET
611			INV:842.50 12" HDPE N12 (SW)[612]		12" END SECTION W/ ANIMAL GUARDS
602	845.70	R-4215-C	INV:839.75 6" HDPE (S)[] INV:839.75 6" HDPE (W)[]	INV:839.75 12" HDPE N12 (NE)[601]	OUTLET CONTROL STR. REF. DETAIL
601			INV:839.46 12" HDPE N12 (SW)[602]		12" END SECTION W/ ANIMAL GUARDS

STORM SEWER PIPE DATA TABLE

UPSTREAM STRUCTURE I.D.	DOWNSTREAM STRUCTURE I.D.	LENGTH OF PIPE	PIPE SIZE / TYPE	SLOPE %	UPSTREAM PIPE INV.	DOWNSTREAM PIPE INV.
622	621	133 LF	12" HDPE N12	3.29%	846.88	842.50
612	611	114 LF	12" HDPE N12	3.52%	846.50	842.50
602	601	61 LF	12" HDPE N12	0.48%	839.75	839.46

FRITZ ENGINEERING SERVICES
14020 MISSISSINEWA DRIVE
CARMEL, INDIANA 46033
P: 317.324.8695 F: 317.324.8717
www.Fritz-Eng.com

PRELIMINARY NOT FOR CONSTRUCTION

---	---	---
REVISIONS AND ISSUES	DATE	BY

GENERAL NOTES / LEGEND:

"IT'S THE LAW" 811 Know what's below. Call before you dig.
2 WORKING DAYS BEFORE YOU DIG.

PROJECT:
GREEN TOUCH MCCORDSVILLE
Green Touch Services

PROJECT LOCATION:
6312 RAILROAD ST
MCCORDSVILLE, INDIANA 46055
HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE:
NE ¼, S26, T17N, R5E

CLIENT:
MacDOUGALL PIERCE CONSTRUCTION
12720 FORD DRIVE
FISHERS, IN 46038

PLAN DATE: 3/8/2024

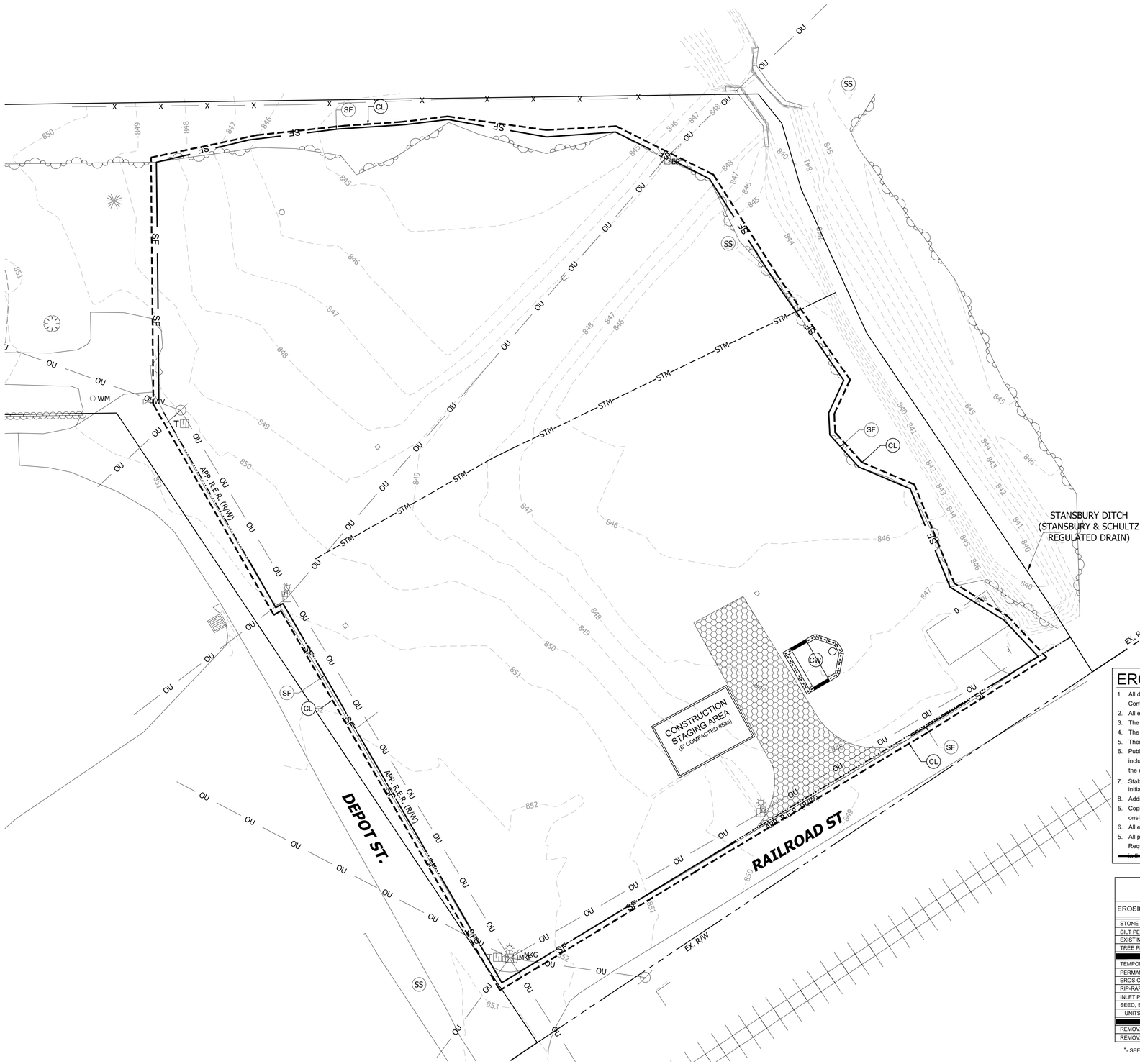
DESIGN:	CHECK:	DRAWN:
AF	AF	KG

PROJECT NO. 2308005

SHEET NAME
STORM PLAN & PROFILES, STORM DATA TABLES

SHEET NO.
C403

PRINTED BY: Andrew Fritz
DATE: 3/7/2024 9:41 AM
SHEET SIZE: ANSI D (24.00 X 36.00 INCHES)
FILE NAME: F:\2023\2308005 - GREEN TOUCH MCCORDSVILLE\03 CIVIL\PLANS\03 DWG LAYOUT C403 STORM PLAN & PROFILES STORM DATA TABLES



N

0 20' 40'

SCALE: 1" = 20'

KEY NOTES: (XX)

IP	INLET PROTECTION
CE	CONSTRUCTION ENTRANCE
PS	PERMANENT SEEDING
TS	TEMPORARY SEEDING
EB	EROSION CONTROL BLANKET WITH PERMANENT SEEDING
SP	SILT PERIMETER PROTECTION (SILT SOCK)
SF	SILT FENCE
CL	EROSION CONTROL LIMITS
CW	CONCRETE WASHOUT
SUB	PAVEMENT SUBBASE
LA	LANDSCAPE PLANTING AREA SEE SHEET L101 FOR PERMANENT E.C. MEASURE
RP	OUTLET RIP-RAP PROTECTION
CD	ROCK CHECK DAM

THE CONTRACTOR IS RESPONSIBLE FOR ALL INSTALLATION AND MAINTENANCE OF EROSION CONTROL AND STORM WATER POLLUTION PREVENTION FOR THE PROJECT AREA:

NAME: ROB WOODCOCK - MACDOUGAL PIERCE CONSTRUCTION
ADDRESS: 12720 FORD DRIVE,FISHERS, IN
PHONE: 317-596-6731
EMAIL: RWOODCOCK@MACDOUGALPIERCE.COM

LIST OF QUALIFICATIONS:
CONTRACTOR IS TO INFORM MCCORDSVILLE OF WHOM THIS STORMWATER POLLUTION PREVENTION INDIVIDUAL IS AT THE PRE-CONSTRUCTION MEETING, PRIOR TO ANY EARTH DISTURBING & CONSTRUCTION ACTIVITIES.

THE INDIANA STORM WATER QUALITY MANUAL AND MCCORDSVILLE STANDARDS AND DETAILS SHALL BE USED IN CONJUNCTION WITH THIS SET OF EROSION CONTROL PLANS.

EROSION CONTROL NOTES:

1. All disturbed areas shall be restored to initial / pre-construction conditions and grades. All flow lines shall be re-established and vegetative cover restored. Contractor may be required to extend vegetative restoration period to warmer months to ensure seed germination.
2. All erosion control practices shall be in accordance with the "Indiana Storm Water Quality Manual" and the SCS "Field Office Technical Guide".
3. The governing municipality has the right to require additional erosion control measures in the field as conditions warrant.
4. The storm water quality unit shown on these plans shall be the unit installed during the development of this property. No substitutions shall be permitted.
5. There shall be no dirt, debris, or storage of materials in the street or alleyways.
6. Public and private roadways, drives, and parking lots shall be kept cleared of accumulated sediment. Bulk clearing of accumulated sediment shall not include flushing the area with water. Projects subject to IDEM's CSGP shall remove sediment from public rights-of-way not exclusive of construction traffic at the end of each day per the CSGP requirements.
7. Stabilization shall be initiated by the end of the seventh (7th) day the area was left idle. Stabilization must be completed within fourteen (14) days after initiation.
8. Additional erosion and sediment control measures may be required by the inspector.
5. Copies of the letter of intent and response from the governing municipality office for Construction Stormwater General Permit compliance shall be provided onsite, when required.
6. All erosion control materials shall be approved by the governing municipality department prior to installation.
5. All proposed erosion and sediment control shall be in conformance with the MCCORDSVILLE Stormwater Design and Specifications Manual and Requirements, latest editions. Discrepancies between the plans and the manual shall not alleviate the contractor from adhering to the requirements set forth in the manual.

EROSION CONTROL MAINTENANCE SCHEDULE

EROSION CONTROL MEASURE	*MAINTENANCE	INSTALLATION SEQUENCE
STONE CONSTRUCTION ENTRANCE	AS NEEDED	PRIOR TO CLEARING AND GRADING
SILT PERIMETER PROTECTION	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	PRIOR TO CLEARING AND GRADING
EXISTING INLET PROTECTION	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	PRIOR TO CLEARING AND GRADING
TREE PROTECTION	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	PRIOR TO CLEARING AND GRADING
TEMPORARY SEEDING	WATER AS NEEDED	AFTER ROUGH GRADING
PERMANENT SEEDING	WATER AS NEEDED	AFTER FINISH GRADING
EROS.CONTROL MATTING / BLANKETS	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	AFTER FINISH GRADING
RIP-RAP PROTECTION	AFTER STORM EVENTS AND AS NEEDED	AFTER FINISH GRADING AND STORM SEWER CONSTRUCTION
INLET PROTECTION	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	AFTER EACH INLET IS PLACED
SEED, SOD & LANDSCAPE AROUND UNITS FINISHED	WATER AS NEEDED	AFTER FINISHED GRADING AROUND FINISHED UNITS
REMOVAL OF INLET PROTECTION	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED
REMOVAL OF SILT PERIMETER	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED

*- SEE CHART, NOTES AND DETAILS FOR MAINTENANCE REQUIREMENTS

**FOR ADDITIONAL EROSION CONTROL INFORMATION AND NOTES, SEE SHEET C504 & C505.

FRITZ
ENGINEERING SERVICES
14020 MISSISSINEWA DRIVE
CARMEL, INDIANA 46033
P: 317.324.8695 F: 317.324.8717
www.Fritz-Eng.com

PRELIMINARY
NOT FOR
CONSTRUCTION

REVISIONS AND ISSUES	DATE	BY

GENERAL NOTES / LEGEND:

"IT'S THE LAW"
811
Know what's below.
Call before you dig.
2 WORKING DAYS BEFORE YOU DIG.

PROJECT:
GREEN TOUCH
Green Touch Services
MCCORDSVILLE

PROJECT LOCATION:
6312 RAILROAD ST
MCCORDSVILLE, INDIANA 46055
HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE:
NE ¼, S26, T17N, R5E

CLIENT:
MacDOUGALL PIERCE CONSTRUCTION
12720 FORD DRIVE
FISHERS, IN 46038

PLAN DATE: 3/8/2024

DESIGN:	CHECK:	DRAWN:
AF	AF	KG

PROJECT NO. 2308005

SHEET NAME
INITIAL EROSION CONTROL SWPPP

SHEET NO.
C501

PRINTED BY: Adrian Fritz
DATE: 3/7/2024 9:47 AM
SCALE: 1" = 20' (FULL BLEED D (24.00 X 22.00 INCHES) 1:1
FILE NAME: F:\2023\2308005 - GREEN TOUCH MCCORDSVILLE\02 CIVIL PLANS\C501 ENG, LAYOUT, C501 INITIAL EROSION CONTROL SWPPP

N

0 20' 40'

SCALE: 1" = 20'

KEY NOTES: (XX)

IP	INLET PROTECTION	
CE	CONSTRUCTION ENTRANCE	
PS	PERMANENT SEEDING	
TS	TEMPORARY SEEDING	
EB	EROSION CONTROL BLANKET WITH PERMANENT SEEDING	
SP	SILT PERIMETER PROTECTION (SILT SOCK)	SP
SF	SILT FENCE	SF
CL	EROSION CONTROL LIMITS	
CW	CONCRETE WASHOUT	
SUB	PAVEMENT SUBBASE	
LA	LANDSCAPE PLANTING AREA SEE SHEET L101 FOR PERMANENT E.C. MEASURE	
RP	OUTLET RIP-RAP PROTECTION	
CD	ROCK CHECK DAM	

THE CONTRACTOR IS RESPONSIBLE FOR ALL INSTALLATION AND MAINTENANCE OF EROSION CONTROL AND STORM WATER POLLUTION PREVENTION FOR THE PROJECT AREA:

NAME: ROB WOODCOCK - MACDOUGAL PIERCE CONSTRUCTION
ADDRESS: 12720 FORD DRIVE,FISHERS, IN
PHONE: 317-596-6731
EMAIL: RWOODCOCK@MACDOUGALPIERCE.COM

LIST OF QUALIFICATIONS:
CONTRACTOR IS TO INFORM MCCORDSVILLE OF WHOM THIS STORMWATER POLLUTION PREVENTION INDIVIDUAL IS AT THE PRE-CONSTRUCTION MEETING, PRIOR TO ANY EARTH DISTURBING & CONSTRUCTION ACTIVITIES.

THE INDIANA STORM WATER QUALITY MANUAL AND MCCORDSVILLE STANDARDS AND DETAILS SHALL BE USED IN CONJUNCTION WITH THIS SET OF EROSION CONTROL PLANS.

EROSION CONTROL NOTES:

1. All disturbed areas shall be restored to initial / pre-construction conditions and grades. All flow lines shall be re-established and vegetative cover restored. Contractor may be required to extend vegetative restoration period to warmer months to ensure seed germination.
2. All erosion control practices shall be in accordance with the "Indiana Storm Water Quality Manual" and the SCS "Field Office Technical Guide".
3. The governing municipality has the right to require additional erosion control measures in the field as conditions warrant.
4. The storm water quality unit shown on these plans shall be the unit installed during the development of this property. No substitutions shall be permitted.
5. There shall be no dirt, debris, or storage of materials in the street or alleyways.
6. Public and private roadways, drives, and parking lots shall be kept cleared of accumulated sediment. Bulk clearing of accumulated sediment shall not include flushing the area with water. Projects subject to IDEM's CSGP shall remove sediment from public rights-of-way not exclusive of construction traffic at the end of each day per the CSGP requirements.
7. Stabilization shall be initiated by the end of the seventh (7^{th}) day the area was left idle. Stabilization must be completed within fourteen (14) days after initiation.
8. Additional erosion and sediment control measures may be required by the inspector.
5. Copies of the letter of intent and response from the governing municipality office for Construction Stormwater General Permit compliance shall be provided onsite, when required.
6. All erosion control materials shall be approved by the governing municipality department prior to installation.
5. All proposed erosion and sediment control shall be in conformance with the MCCORDSVILLE Stormwater Design and Specifications Manual and Requirements, latest editions. Discrepancies between the plans and the manual shall not alleviate the contractor from adhering to the requirements set forth in the manual.

EROSION CONTROL MAINTENANCE SCHEDULE

EROSION CONTROL MEASURE	*MAINTENANCE	INSTALLATION SEQUENCE
STONE CONSTRUCTION ENTRANCE	AS NEEDED	PRIOR TO CLEARING AND GRADING
SILT PERIMETER PROTECTION	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	PRIOR TO CLEARING AND GRADING
EXISTING INLET PROTECTION	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	PRIOR TO CLEARING AND GRADING
TREE PROTECTION	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	PRIOR TO CLEARING AND GRADING
TEMPORARY SEEDING	WATER AS NEEDED	AFTER ROUGH GRADING
PERMANENT SEEDING	WATER AS NEEDED	AFTER FINISH GRADING
EROS.CONTROL MATTING / BLANKETS	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	AFTER FINISH GRADING
RIP-RAP PROTECTION	AFTER STORM EVENTS AND AS NEEDED	AFTER FINISH GRADING AND STORM SEWER CONSTRUCTION
INLET PROTECTION	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	AFTER EACH INLET IS PLACED
SEED, SOD & LANDSCAPE AROUND UNITS FINISHED	WATER AS NEEDED	AFTER FINISHED GRADING AROUND FINISHED UNITS
REMOVAL OF INLET PROTECTION	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED
REMOVAL OF SILT PERIMETER	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED

*- SEE CHART, NOTES AND DETAILS FOR MAINTENANCE REQUIREMENTS

**FOR ADDITIONAL EROSION CONTROL INFORMATION AND NOTES, SEE SHEET C504 & C505.

FRITZ
ENGINEERING SERVICES
14020 MISSISSINEWA DRIVE
CARMEL, INDIANA 46033
P: 317.324.8695 F: 317.324.8717
www.Fritz-Eng.com

PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS AND ISSUES	DATE	BY

GENERAL NOTES / LEGEND:

"IT'S THE LAW" 811 Know what's below. Call before you dig.
2 WORKING DAYS BEFORE YOU DIG.

PROJECT:
GREEN TOUCH
Green Touch Services
MCCORDSVILLE

PROJECT LOCATION:
6312 RAILROAD ST
MCCORDSVILLE, INDIANA 46055
HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE:
NE ¼, S26, T17N, R5E

CLIENT:
MacDOUGALL PIERCE CONSTRUCTION
12720 FORD DRIVE
FISHERS, IN 46038

PLAN DATE: 3/8/2024

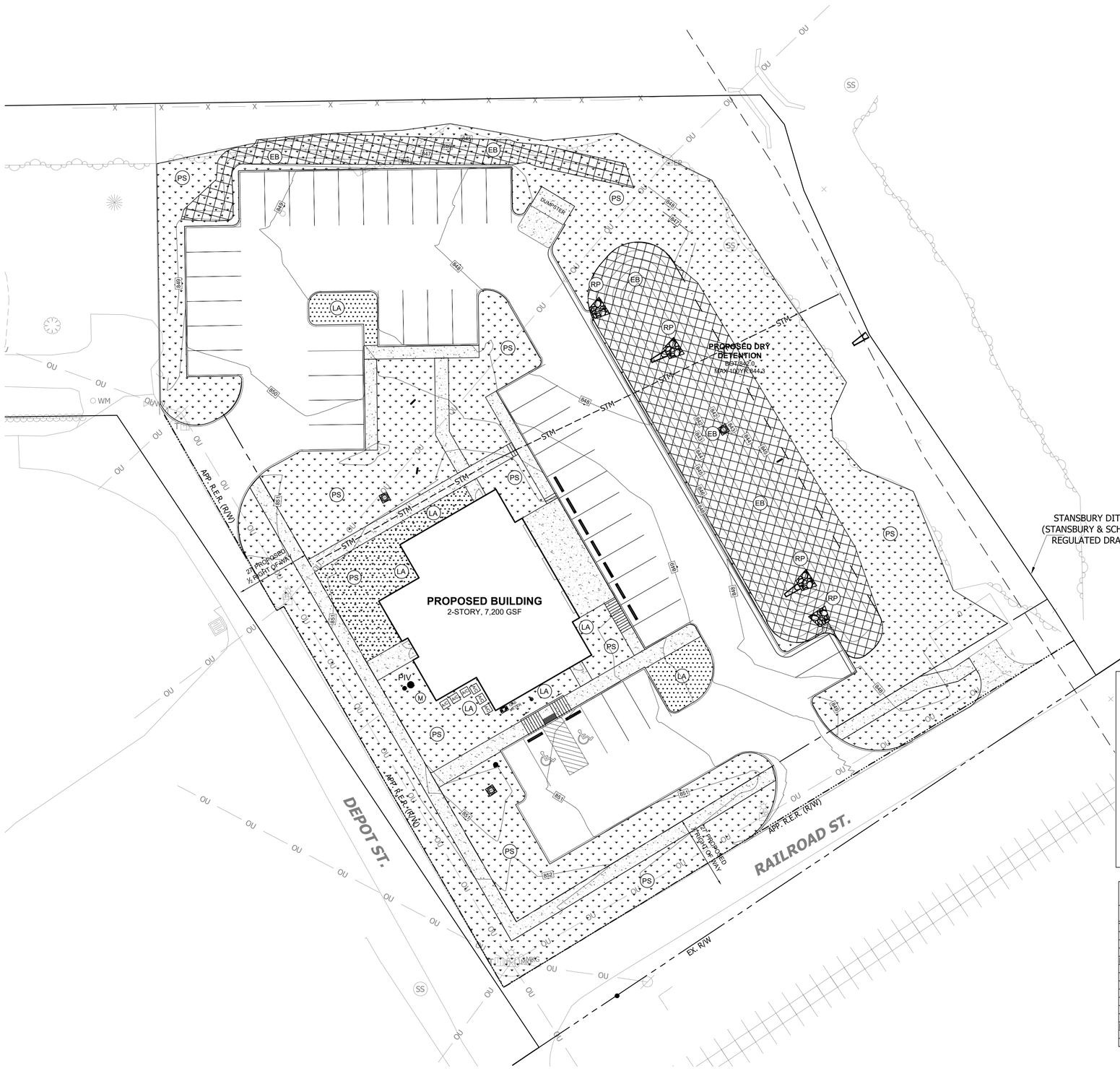
DESIGN:	CHECK:	DRAWN:
AF	AF	KG

PROJECT NO. 2308005

SHEET NAME
MASS GRADING & CONSTRUCTION SWPPP

SHEET NO.
C502

PRINTED BY: Andrew Fritz
DATE: 3/7/2024 9:41 AM
SHEET SIZE: ARCH D (24.00 X 36.00 INCHES) FULL BLEED D (24.00 X 22.00 INCHES) 1:1
FILE NAME: F:\2023\2308005 - GREEN TOUCH MCCORDSVILLE\03 CIVIL PLANS\03 DWG LAYOUT C502 MASS GRADING & CONSTRUCTION SWPPP



KEY NOTES:

IP	INLET PROTECTION	
CE	CONSTRUCTION ENTRANCE	
PS	PERMANENT SEEDING	
TS	TEMPORARY SEEDING	
EB	EROSION CONTROL BLANKET WITH PERMANENT SEEDING	
SP	SILT PERIMETER PROTECTION (SILT SOCK)	SP
SF	SILT FENCE	SF
CL	EROSION CONTROL LIMITS	
CW	CONCRETE WASHOUT	
SUB	PAVEMENT SUBBASE	
LA	LANDSCAPE PLANTING AREA SEE SHEET L101 FOR PERMANENT E.C. MEASURE	
RP	OUTLET RIP-RAP PROTECTION	
CD	ROCK CHECK DAM	

THE CONTRACTOR IS RESPONSIBLE FOR ALL INSTALLATION AND MAINTENANCE OF EROSION CONTROL AND STORM WATER POLLUTION PREVENTION FOR THE PROJECT AREA:

NAME: ROB WOODCOCK - MACDOUGAL PIERCE CONSTRUCTION
ADDRESS: 12720 FORD DRIVE,FISHERS, IN
PHONE: 317-596-6731
EMAIL: RWOODCOCK@MACDOUGALPIERCE.COM

LIST OF QUALIFICATIONS:
CONTRACTOR IS TO INFORM MCCORDSVILLE OF WHOM THIS STORMWATER POLLUTION PREVENTION INDIVIDUAL IS AT THE PRE-CONSTRUCTION MEETING, PRIOR TO ANY EARTH DISTURBING & CONSTRUCTION ACTIVITIES.

THE INDIANA STORM WATER QUALITY MANUAL AND MCCORDSVILLE STANDARDS AND DETAILS SHALL BE USED IN CONJUNCTION WITH THIS SET OF EROSION CONTROL PLANS.

EROSION CONTROL NOTES:

1. All disturbed areas shall be restored to initial / pre-construction conditions and grades. All flow lines shall be re-established and vegetative cover restored. Contractor may be required to extend vegetative restoration period to warmer months to ensure seed germination.
2. All erosion control practices shall be in accordance with the "Indiana Storm Water Quality Manual" and the SCS "Field Office Technical Guide".
3. The governing municipality has the right to require additional erosion control measures in the field as conditions warrant.
4. The storm water quality unit shown on these plans shall be the unit installed during the development of this property. No substitutions shall be permitted.
5. There shall be no dirt, debris, or storage of materials in the street or alleyways.
6. Public and private roadways, drives, and parking lots shall be kept cleared of accumulated sediment. Bulk clearing of accumulated sediment shall not include flushing the area with water. Projects subject to IDEM's CSGP shall remove sediment from public rights-of-way not exclusive of construction traffic at the end of each day per the CSGP requirements.
7. Stabilization shall be initiated by the end of the seventh (7^{th}) day the area was left idle. Stabilization must be completed within fourteen (14) days after initiation.
8. Additional erosion and sediment control measures may be required by the inspector.
5. Copies of the letter of intent and response from the governing municipality office for Construction Stormwater General Permit compliance shall be provided onsite, when required.
6. All erosion control materials shall be approved by the governing municipality department prior to installation.
5. All proposed erosion and sediment control shall be in conformance with the MCCORDSVILLE Stormwater Design and Specifications Manual and Requirements, latest editions. Discrepancies between the plans and the manual shall not alleviate the contractor from adhering to the requirements set forth in the manual.

EROSION CONTROL MAINTENANCE SCHEDULE

EROSION CONTROL MEASURE	*MAINTENANCE	INSTALLATION SEQUENCE
STONE CONSTRUCTION ENTRANCE	AS NEEDED	PRIOR TO CLEARING AND GRADING
SILT PERIMETER PROTECTION	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	PRIOR TO CLEARING AND GRADING
EXISTING INLET PROTECTION	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	PRIOR TO CLEARING AND GRADING
TREE PROTECTION	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	PRIOR TO CLEARING AND GRADING
TEMPORARY SEEDING	WATER AS NEEDED	AFTER ROUGH GRADING
PERMANENT SEEDING	WATER AS NEEDED	AFTER FINISH GRADING
EROS.CONTROL MATTING / BLANKETS	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	AFTER FINISH GRADING
RIP-RAP PROTECTION	AFTER STORM EVENTS AND AS NEEDED	AFTER FINISH GRADING AND STORM SEWER CONSTRUCTION
INLET PROTECTION	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	AFTER EACH INLET IS PLACED
SEED, SOD & LANDSCAPE AROUND UNITS FINISHED	WATER AS NEEDED	AFTER FINISHED GRADING AROUND FINISHED UNITS
REMOVAL OF INLET PROTECTION	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED
REMOVAL OF SILT PERIMETER	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED

*- SEE CHART, NOTES AND DETAILS FOR MAINTENANCE REQUIREMENTS

**FOR ADDITIONAL EROSION CONTROL INFORMATION AND NOTES, SEE SHEET C504 & C505.

FRITZ
ENGINEERING SERVICES
14020 MISSISSINEWA DRIVE
CARMEL, INDIANA 46033
P: 317.324.8695 F: 317.324.8717
www.Fritz-Eng.com

PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS AND ISSUES	DATE	BY

GENERAL NOTES / LEGEND:

"IT'S THE LAW" 811
Know what's below.
Call before you dig.
2 WORKING DAYS BEFORE YOU DIG.

PROJECT:
GREEN TOUCH
Green Touch Services
MCCORDSVILLE

PROJECT LOCATION:
6312 RAILROAD ST
MCCORDSVILLE, INDIANA 46055
HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE:
NE ¼, S26, T17N, R5E

CLIENT:
MacDOUGALL PIERCE CONSTRUCTION
12720 FORD DRIVE
FISHERS, IN 46038

PLAN DATE: 3/8/2024

DESIGN:	CHECK:	DRAWN:
AF	AF	KG

PROJECT NO. 2308005

SHEET NAME
POST CONSTRUCTION SWPPP

SHEET NO.
C503

PRINTED BY: Aarron Fritz
DATE: 3/7/2024 8:42 AM
SCALE: 1" = 20' WHEN PLOTTED AT FULL BLEED D (24.00 X 36.00 INCHES) 1:1
FILE NAME: P:\2023\2308005 - GREEN TOUCH MCCORDSVILLE\02 CIVIL\PLANS\CIVIL DWG_LAYOUT - C503 POST CONSTRUCTION SWPPP

EROSION CONTROL SEQUENCE & PROCEDURES

*THESE EROSION CONTROL MEASURES, SEQUENCES AND PROCEDURES SHALL APPLY TO ALL PHASES OF THE PROJECT, INCLUDING THE INITIAL / PRE-CONSTRUCTION PHASE, DURING CONSTRUCTION PHASE, AND POST CONSTRUCTION PHASE.

Contractor shall schedule a Pre-Construction Meeting with the TOWN OF MCCORDSVILLE Stormwater Management Department (317) 335-3604 / Local Governing Municipality Stormwater Management Department / County Surveyor's Office / County Soil and Water

1. prior to any earth moving activities or construction.
2. The following erosion control measures shall be in place prior to any land disturbing activities:
   - 2.1. Create a stabilized construction entrance.
   - 2.2. Install Temporary Inlet Protection Measures on existing storm inlets.
   - 2.3. Install Temporary Silt Fence and/or Silt Sock Protection as shown on approved plans.
   - 2.4. Install Temporary Construction Washout as required.
   - 2.5. Install Temporary check dams and sediment basins as required.
3. Contractor shall contact the TOWN OF MCCORDSVILLE / Governing Municipality / MS4 / County Soil and Water Department for an initial Erosion Control Inspection to obtain full sign off on the Improvement Location Permit prior to earthwork activities.
4. The contractor shall control waste, garbage, debris, wastewater, and other substances on the site so they will not be transported from the site by the action of wind, storm water runoff, or other forces. Proper disposal or management of all wastes and unused building material appropriate to the nature of the waste or material is required.
5. Public or private roadways shall be kept clear of accumulated sediment. All sediment that is cleared must be returned to the likely point of origin or other suitable location. Clearing of large amounts of sediment shall not include flushing the area with water.
6. Minimize the exposure of bare earth by limiting the work area to that necessary to perform the work, and by proper scheduling of manpower and equipment.
7. All erosion and sediment control measures shall be inspected, cleaned, and maintained following each storm event.
8. Wherever possible, maintain existing vegetative cover. Use non-vegetative material including mulch, erosion blankets, or stone to control erosion from disturbed areas.
9. A log shall be maintained of all inspections (weekly, and following storm events), maintenance and repair of erosion and sediment control measures. The log shall be maintained on site and be available upon request to the owners representatives and the operating authorities having jurisdiction over the site.
10. Once land disturbing activities begin, the following practices shall be provided:
    - 10.1. The Trained Individual responsible for the erosions control maintenance for the contractor shall make weekly site inspections and after every rainfall event of 0.5 inches and greater.
    - 10.2. Positive drainage shall be maintained at all times. Contractor shall ensure the downstream drainage system and adjacent properties are not receiving sediment/debris laden runoff. If additional measures are necessary to protect adjacent properties or the downstream drainage system, the Contractor shall notify the Engineer and implement the necessary measures immediately.
    - 10.3. Once earth disturbing activities begin, the adjacent roadways, adjacent drives and parking lots shall be continuously monitored for sediment tracking. If sediment is found, immediate action is required to clean the offsite areas and the current erosion control practices will need to be inspected and modified accordingly to prevent any further sediment from leaving the project site.
    - 10.4. Once the new storm structures and / or pipes are is in place, the appropriate type of inlet protection measures shall be placed.
    - 10.5. As surface types change, perimeter silt protection may need to be modified or replaced with a different perimeter protection. Update and replace perimeter silt protection as needed and required per these plans and site conditions / restraints.
    - 10.6. Continued monitoring of all exposed areas shall be performed in order to verify the surrounding areas are not becoming sediment laden from construction activities onsite.
    - 10.7. As the construction occurs, disturbed areas shall be stabilized as soon as they are at finished grade or will be left bare for more than 15 days.
    - 10.8. Provide final grade stabilization upon final grading of all areas including erosion control blanketing, seeding and sodding as appropriate.
    - 10.9. Storm sewers that become silted due to construction activities shall be cleaned with a jet vacuum and the material properly disposed of.
    - 10.10. As the existing swales and ditches are removed or graded away, the temporary check dams, filter dams, and sediment basins may be removed (unless noted otherwise on the plans) along with their retained debris, pollutants, and sediment. All material shall be disposed of off site at an approved location.
11. After site preparation, demolition, clearing and mass earthwork phases are complete and prior to infrastructure, building, and fine grading construction begins:
    - 11.1. The perimeter erosion control practices (silt fence, construction entrance, check filter dams, temp. sediment basins, etc.) shall be examined, cleaned, and reinstalled if damaged. Some practices may need to be relocated or changed for the proposed site layout or per construction phases. (See Erosion Control Plans).
    - 11.2. Relocate staging area if needed due to site configuration.
    - 11.3. Install a Temporary Concrete Washout if not done already.
    - 11.4. Once the new storm structures and / or pipes are is in place, the appropriate type of inlet protection measures shall be placed.
    - 11.5. Continued monitoring of all exposed areas shall be performed in order to verify the surrounding areas are not becoming sediment laden from construction activities onsite.
    - 11.6. As the construction occurs, disturbed areas shall be stabilized as soon as they are at finished grade or will be left bare for more than 15 days.
    - 11.7. Provide final grade stabilization upon final grading of all areas including erosion control blanketing, seeding and sodding as appropriate.
    - 11.8. Storm sewers that become silted due to construction activities shall be cleaned with a jet vacuumed and the material properly disposed of.
    - 11.9. Temporary silt fence to be installed around pond and maintained until open areas contributing to direct sheet flow to pond have been stabilized. Only once these open areas are properly and permanently stabilized can this temporary silt fence be removed and disposed of properly.
    - 11.10. Minimize erosion from exposed areas by providing and maintaining temporary or permanent stabilization measures. Erosion control measures to protect exposed areas shall be installed at the end of the day's work or within 24 hours of the completion of the earth disturbing activity, as applicable for the type of measure.
    - 11.11. All disturbed areas shall be seeded and/or stabilized upon completion of the earth disturbing activity.
    - 11.12. Rip-rap protection for final grades, detention ponds or storm sewers need established upon completion of final grading and storm sewer construction.
12. All graded areas (lawns, banks, mounds, etc.) with slopes equal to or steeper than 6h:1v shall be stabilized with an erosion control blanket unless noted otherwise. All constructed swales channels shall be stabilized with an erosion control blanket to the top of the bank. Soil stockpiles shall be seeded and mulched to minimize erosion.
13. All other lawn and planting areas shall be seeded and stabilized with an anchored, crimped or tackified mulch and seed mixture.
14. Areas to be paved shall be stabilized with a temporary stone cover. The temporary stone stabilization shall be equivalent to the proposed stone sub-base material. Adequate sub-base depths shall be maintained during construction, verified and restored, if necessary, prior to final paving. Stone stabilization shall be installed per the paving specifications and details.
15. Install pipe and grate inlet protection measures and pipe outlet protection as new pipes or pipe extensions are installed. Limit excavation to the work that can be performed that day. Trenches shall be seeded and mulched as part of the backfill operation.
16. Install inlet protection measures to prevent debris and sediment from entering storm system. Check weekly and after each storm event for debris and sediment. Clear blockages as identified. Damaged or ineffective measures shall be replaced.
17. Soil stockpiles shall have appropriate perimeter protection to prevent sedimentation of the surrounding acres. Any stock pile that will not be disturbed for 15 days or longer shall be seeded and protected with mulch or erosion control blanket.
18. All disturbed areas where work will potentially cease for 15 days or longer shall be seeded and stabilized immediately upon completion of the activity.
19. Erosion and sediment control measures shall be maintained until the site is 95% stabilized.
20. Construction Phase BMP's shall remain in place and continue to be inspected until the entire site has reached the minimum vegetative cover, 70% established.
21. Once construction is complete and prior to the contractor handing over the project to the owner, the contractor shall clean all debris, pollutants, and sediment from the storm sewers.
22. Once construction is complete and prior to the contractor handing over the project to the owner, the contractor shall clean all debris, pollutants, and sediment from the detention pond and remove the outlet structure rock check dam. Contractor to stabilize wet detention ponds (if any) after clean out.
23. Upon the site reaching the required minimum established vegetative cover, the IDEM CSGP Notice of Termination shall be submitted to the MS4 Department for approval prior to submitting it to IDEM if required for project.

EROSION CONTROL MAINTENANCE SCHEDULE

EROSION CONTROL MEASURE	*MAINTENANCE	INSTALLATION SEQUENCE
STONE CONSTRUCTION ENTRANCE	AS NEEDED	PRIOR TO CLEARING AND GRADING
SILT PERIMETER PROTECTION	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	PRIOR TO CLEARING AND GRADING
EXISTING INLET PROTECTION	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	PRIOR TO CLEARING AND GRADING
TREE PROTECTION	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	PRIOR TO CLEARING AND GRADING
TEMPORARY SEEDING	WATER AS NEEDED	AFTER ROUGH GRADING
PERMANENT SEEDING	WATER AS NEEDED	AFTER FINISH GRADING
EROS.CONTROL MATTING / BLANKETS	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	AFTER FINISH GRADING
RIP-RAP PROTECTION	AFTER STORM EVENTS AND AS NEEDED	AFTER FINISH GRADING AND STORM SEWER CONSTRUCTION
INLET PROTECTION	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	AFTER EACH INLET IS PLACED
SEED, SOD & LANDSCAPE AROUND UNITS FINISHED	WATER AS NEEDED	AFTER FINISHED GRADING AROUND FINISHED UNITS
REMOVAL OF INLET PROTECTION	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED
REMOVAL OF SILT PERIMETER	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED

*- SEE CHART, NOTES AND DETAILS FOR MAINTENANCE REQUIREMENTS

Soil Map—Hancock County, Indiana

Natural Resources Conservation Service | Web Soil Survey National Cooperative Soil Survey | 2/20/2024 Page 1 of 3

THE CONTRACTOR IS RESPONSIBLE FOR ALL INSTALLATION AND MAINTENANCE OF EROSION CONTROL AND STORM WATER POLLUTION PREVENTION FOR THE PROJECT AREA:

NAME: ROB WOODCOCK - MACDOUGAL PIERCE CONSTRUCTION
ADDRESS: 12720 FORD DRIVE,FISHERS, IN
PHONE: 317-596-6731
EMAIL: RWOODCOCK@MACDOUGALPIERCE.COM

LIST OF QUALIFICATIONS:
CONTRACTOR IS TO INFORM MCCORDSVILLE OF WHOM THIS STORMWATER POLLUTION PREVENTION INDIVIDUAL IS AT THE PRE-CONSTRUCTION MEETING, PRIOR TO ANY EARTH DISTURBING & CONSTRUCTION ACTIVITIES.

THE INDIANA STORM WATER QUALITY MANUAL AND MCCORDSVILLE STANDARDS AND DETAILS SHALL BE USED IN CONJUNCTION WITH THIS SET OF EROSION CONTROL PLANS.

Report—RUSLE2 Related Attributes

Soil properties and interpretations for erosion runoff calculations. The surface mineral horizon properties are displayed or the first mineral horizon below an organic surface horizon. Organic horizons are not displayed.

RUSLE2 Related Attributes–Hancock County, Indiana

Map symbol and soil name	Pct. of map unit	Slope length (ft)	Hydrologic group	Kf	T factor	Representative value % Sand	% Silt	% Clay
Br—Brookston silty clay loam, 0 to 2 percent slopes								
Brookston	95	200	B/D	.28	5	13.0	59.0	28.0
MpC3—Miami complex, 6 to 12 percent slopes, severely eroded								
Miami, severely eroded	55	98	C	.32	2	27.0	44.0	29.0
Miami, shallow, severely eroded	35	98	D	.37	1	27.0	44.0	29.0
YbvA—Brookston silty clay loam-Urban land complex, 0 to 2 percent slopes								
Brookston	65	200	B/D	.28	5	13.0	59.0	28.0
YcuA—Crosby silt loam-Urban land complex, 0 to 2 percent slopes								
Crosby	60	249	C/D	.43	3	18.0	64.0	18.0
YmcC3—Miami-Urban land complex, 6 to 12 percent slopes, severely eroded								
Miami, severely eroded	45	98	C	.32	2	27.0	44.0	29.0
Miami, shallow, severely eroded	30	98	D	.37	1	27.0	44.0	29.0

Report—Water Features

Map unit symbol and soil name	Hydrologic group	Surface runoff	Most likely months	Water table: Upper limit	Water table: Lower limit	Water table: Kind	Ponding: Surface depth	Ponding: Duration	Ponding: Frequency	Flooding: Duration	Flooding: Frequency
				Ft	Ft		Ft				
Br—Brookston silty clay loam, 0 to 2 percent slopes											
Brookston	B/D	Negligible	Jan-May	0.0-1.0	6.0	Apparent	0.0-0.5	Long (7 to 30 days)	Frequent	—	None
			Jun	4.0-5.0	6.0	Apparent	—	—	—	—	None
			Jul-Oct	—	—	—	—	—	—	—	None
			Nov	4.0-5.0	6.0	Apparent	—	—	—	—	None
			Dec	0.0-1.0	6.0	Apparent	0.0-0.5	Long (7 to 30 days)	Frequent	—	None
MpC3—Miami complex, 6 to 12 percent slopes, severely eroded											
Miami, severely eroded	C	High	Jan-Apr	2.0-3.5	2.5-3.5	Perched	—	—	None	—	None
			May-Nov	—	—	—	—	—	None	—	None
			Dec	2.0-3.5	2.5-3.5	Perched	—	—	None	—	None
Miami, shallow, severely eroded	D	High	Jan-Apr	2.0-3.5	2.5-3.5	Perched	—	—	None	—	None
			May-Nov	—	—	—	—	—	None	—	None
			Dec	2.0-3.5	2.5-3.5	Perched	—	—	None	—	None

Map unit symbol and soil name	Hydrologic group	Surface runoff	Most likely months	Water table: Upper limit	Water table: Lower limit	Water table: Kind	Ponding: Surface depth	Ponding: Duration	Ponding: Frequency	Flooding: Duration	Flooding: Frequency
				Ft	Ft		Ft				
YbvA—Brookston silty clay loam-Urban land complex, 0 to 2 percent slopes											
Brookston	B/D	Negligible	Jan-May	0.0-1.0	6.0	Apparent	0.0-0.5	Long (7 to 30 days)	Frequent	—	None
			Jun	4.0-5.0	6.0	Apparent	—	—	—	—	None
			Jul-Oct	—	—	—	—	—	—	—	None
			Nov	4.0-5.0	6.0	Apparent	—	—	—	—	None
			Dec	0.0-1.0	6.0	Apparent	0.0-0.5	Long (7 to 30 days)	Frequent	—	None
Urban land		Very high		—	—	—	—	—	—	—	
YcuA—Crosby silt loam-Urban land complex, 0 to 2 percent slopes											
Crosby	C/D	Medium	Jan-Mar	0.5-2.0	2.0-3.5	Perched	—	—	None	—	None
			Apr	0.5-3.0	2.0-3.5	Perched	—	—	None	—	None
			May	1.5-3.0	2.0-3.5	Perched	—	—	None	—	None
			Jun	1.5-3.5	2.0-3.5	Perched	—	—	None	—	None
			Jul-Sep	—	—	—	—	—	None	—	None
			Oct	1.5-3.5	2.0-3.5	Perched	—	—	None	—	None
			Nov	1.5-3.0	2.0-3.5	Perched	—	—	None	—	None
			Dec	0.5-3.0	2.0-3.5	Perched	—	—	None	—	None
Urban land		Very high		—	—	—	—	—	—	—	

Map unit symbol and soil name	Hydrologic group	Surface runoff	Most likely months	Water table: Upper limit	Water table: Lower limit	Water table: Kind	Ponding: Surface depth	Ponding: Duration	Ponding: Frequency	Flooding: Duration	Flooding: Frequency
				Ft	Ft		Ft				
YmcC3—Miami-Urban land complex, 6 to 12 percent slopes, severely eroded											
Miami, severely eroded	C	High	Jan-Apr	2.0-3.5	2.5-3.5	Perched	—	—	None	—	None
			May-Nov	—	—	—	—	—	None	—	None
			Dec	2.0-3.5	2.5-3.5	Perched	—	—	None	—	None
Miami, shallow, severely eroded	D	High	Jan-Apr	2.0-3.5	2.5-3.5	Perched	—	—	None	—	None
			May-Nov	—	—	—	—	—	None	—	None
			Dec	2.0-3.5	2.5-3.5	Perched	—	—	None	—	None
Urban land		Very high		—	—	—	—	—	—	—	

FRITZ ENGINEERING SERVICES
14020 MISSISSINEWA DRIVE
CARMEL, INDIANA 46033
P: 317.324.8695 F: 317.324.8717
www.Fritz-Eng.com

PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS AND ISSUES	DATE	BY

GENERAL NOTES / LEGEND:

"IT'S THE LAW"
811
Know what's below.
Call before you dig.
2 WORKING DAYS BEFORE YOU DIG.

PROJECT:
Green Touch Services
GREEN TOUCH MCCORDSVILLE

PROJECT LOCATION:
6312 RAILROAD ST
MCCORDSVILLE, INDIANA 46055
HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE:
NE $\frac{1}{4}$, S26, T17N, R5E

CLIENT:
MacDOUGALL PIERCE CONSTRUCTION
12720 FORD DRIVE
FISHERS, IN 46038

PLAN DATE: 3/8/2024

DESIGN:	CHECK:	DRAWN:
AF	AF	KG

PROJECT NO. 2308005

SHEET NAME
SWPPP SEQUENCING & SOILS INFORMATION

SHEET NO.
C504

FILE NAME: F:\2023\2308005 - GREEN TOUCH MCCORDSVILLE\03 CIVIL\PLANS\C501.DWG, LAYOUT: C504 SWPPP SEQUENCING & SOILS INFORMATION

CONSTRUCTION STORMWATER GENERAL PERMIT (CSGP) REPORT
STORMWATER POLLUTION PREVENTION PLAN (SWP3 OR SWPPP)

SECTION A - CONSTRUCTION PLAN ELEMENTS

A1 PLAN INDEX:
C501 - INITIAL CONTROLS SWPPP
C502 - MASS GRADING & CONSTRUCTION SWPPP
C503 - POST CONSTRUCTION SWPPP
C504 - SWPPP SEQUENCE AND SOIL INFORMATION
C505 - SWPPP - CSGP REPORT & SPILL PREVENTION
C506 - EROSION CONTROL DETAILS

A2 VICINITY MAP: SEE COVER SHEET C100

A3 PROJECT NARRATIVE: THE OVERALL PROJECT PROPERTY IS 2.4 ACRES IN SIZE. THE PROJECT CONSISTS OF THE PROJECT DISTURBANCE IS 1.5 ACRES. A PROPOSED 2-STORY BUSINESS USE BUILDING WILL BE CONSTRUCTED ALONG WITH AN ASPHALT PARKING LOT, STORMWATER DETENTION POND, AND ASSOCIATED INFRASTRUCTURE.

A4 SITE LOCATION COORDINATES:
LAT: 39°53'41" N
LONG: 85°55'26" W

A5 LEGAL DESCRIPTION: PART OF NE $\frac{1}{4}$ OF SECTION 26 - TOWNSHIP 17N - RANGE 5E, VERNON TOWNSHIP, HANCOCK COUNTY, INDIANA. FOR FULL LAND DESCRIPTION SEE SURVEY SHEETS LOCATED AT THE BEGINNING OF THIS PLAN SET..

A6 LOCATION OF ALL SITE IMPROVEMENTS: SEE SITE PLAN ON SHEET C201.

A7 HYDROLOGIC UNIT CODE (14 DIGIT) - 05120201100140 ("NAME" WATERSHED)

SEE FIRM MAP PANEL ON PLAN SHEET C101 FOR BOUNDARIES OF THE 100-YEAR FLOODPLAINS, FLOODWAY FRINGES, AND FLOODWAYS (IF ANY). FOR THIS PROJECT SITE, THEIR ARE NO 100-YEAR FLOODPLAINS OR FLOODWAYS.THE PROJECT SITE IS LOCATED WITHIN THE FEMA COMMUNITY PANEL MAP NO. 18059C0018D WITH AN EFFECTIVE DATED OF 12/4/2007. REVIEW OF THE MAP INDICATES THE SITE IS LOCATED WITHIN THE FLOOD DESIGNATION 'ZONE X' (UNSHADED), "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN". THE FEMA MAP IS INCLUDED IN ON SHEET C101.

A8 ADJACENT LAND USES:
NORTH: PUD ZONING
SOUTH: PUD ZONING
WEST: PUD ZONING
EAST: PUD ZONING

A9 IDENTIFICATION OF A U.S. EPA APPROVED OR ESTABLISHED TMDL, INCLUDING THE NAME OF THE TMDL AND THE POLLUTANT(S) FOR WHICH THERE IS A TMDL :
THE SITE IS LOCATED WITHIN THE "THORPE CREEK-GEIST RESERVOIR " WATERSHED AS LOCATED IN CENTRAL INDIANA, DRAINING APPROXIMATELY 22,170 ACRES IN HANCOCK COUNTY. INCLUDED IN THIS WATERSHED ARE 12 WATERBODIES, INCLUDING DRY BRANCH WHICH IS LOCATED JUST WEST OF THIS PROJECT PROPERTY AND WHERE ULTIMATELY THE STORMWATER FOR THIS PROJECT DISCHARGES. PER THE TMDL AND ASSESSMENT INFORMATION, THIS WATERCOURSE IS RATED "GOOD".

ALL INFORMATION OBTAINED FROM:
IDEM WEBSITE "https://www.in.gov/idem/nps/resources/total-maximum-daily-load-reports/"
AND / OR
THE FEDERAL EPA WEBSITE "https://mywaterway.epa.gov/"

A10 SPECIFIC POINTS WHERE STORMWATER DISCHARGE LEAVES SITE, OWNERSHIP/TYPE OF STORMWATER CONVEYANCE SYSTEM AND ITS ULTIMATE RECEIVING WATERS:

THE PROJECT AREAS DRAIN EASTERLY TOWARDS AN ONSITE DETENTION FACILITY. THE DETENTION BASIN WILL OUTLET TO STANSBURY CREEK ALONG THE EAST SIDE OF THE PROJECT SITE.

A11 IDENTIFICATION OF DISCHARGES TO A WATER ON THE CURRENT 303D LIST OF IMPAIRED WATERS AND THE POLLUTANT(S) FOR WHICH IT IS IMPAIRED:
THIS PROJECT DOES NOT DIRECTLY DISCHARGE INTO DRY RUN, WHICH IS LISTED AS "GOOD" PER THE EPA WEBSITE: "https://mywaterway.epa.gov/".

A12 SOIL MAP OF THE PREDOMINANT SOIL TYPES THAT INCLUDES SOIL PROPERTIES, CHARACTERISTICS, LIMITATIONS, AND HAZARDS ASSOCIATED WITH THE PROJECT SITE AND THE MEASURES THAT WILL BE INTEGRATED INTO THE PROJECT TO OVERCOME OR MINIMIZE ADVERSE SOIL CONDITIONS: SEE SOIL MAP AND SOIL DESCRIPTIONS ON SHEET C504.

A13 LOCATION AND NAME OF WETLANDS, LAKES AND WATER COURSES ON AND ADJACENT TO SITE: NONE

A14 NOTATION OF ANY STATE OR FEDERAL WATER QUALITY PERMITS:
401 WATER QUALITY CERTIFICATION (IDEM): NONE
SECTION 404 PERMIT (USACE): NONE
CONSTRUCTION IN A FLOODWAY (INDNR): NONE
GENERAL PERMIT RULE FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY (CSGP) : TO BE APPLIED FOR

A15 IDENTIFICATION AND DELINEATION OF NATURAL BUFFERS AND EXISTING VEGETATIVE COVER, SUCH AS CROP OR CROP RESIDUE, GRASS, WEEDS, BRUSH, AND TREES :
EXISTING SITE CONDITIONS INCLUDE GRASS COVER ASSOCIATED WITH A COMMERCIAL OUTLOT. NO OTHER COVER TYPES.

A16 FOR EXISTING TOPOGRAPHY: SEE SURVEYS AND EXISTING CONDITIONS PLAN SHEET C102

A17 LOCATION(S) OF WHERE RUN-OFF ENTERS THE PROJECT SITE: ADJACENT ROADSIDE RUNOFF SHEET DRAINS ONTO THE RPOJECT SITE, ACROSS THE PROJECT SITE AND INTO STANSBURY CREEK ALONG THE EAST SIDE OF THE SITE.

A18 LOCATION(S) OF WHERE RUN-OFF DISCHARGES FROM THE PROJECT SITE PRIOR TO CONSTRUCTION:

THE PROJECT AREA GENERALLY SHEET DRAINS FROM WEST TO EAST AND INTO STANSBURY CREEK ALONG THE EAST SIDE OF THE SITE.

A19 LOCATION OF ALL EXISTING STRUCTURES ON THE PROJECT SITE: SEE SURVEY SHEETS AND C102.

A20 EXISTING PERMANENT RETENTION OR DETENTION FACILITIES, INCLUDING MANMADE WETLANDS, DESIGNED FOR THE PURPOSE OF STORMWATER MANAGEMENT:

THE DISTURBED PROJECT AREAS DRAIN EASTERLY TO AN ONSITE DETENTION FACILITY. THE DETENTION BASIN WILL OUTLET TO STANSBURY CREEK ALONG THE EAST SIDE OF THE PROJECT SITE.

A21 LOCATIONS WHERE STORMWATER MAY BE DIRECTLY DISCHARGED INTO GROUND WATER, SUCH AS ABANDONED WELLS, SINKHOLES, OR KARST FEATURES: NONE FOR THIS PROJECT

A22 SIZE OF THE PROJECT PROPERTY AREA: TOTAL AREA = 2.4 ACRES

A23 TOTAL EXPECTED LAND DISTURBANCE: DISTURBED AREA = 1.5 ACRES

A24 PROPOSED FINAL TOGPOGRAPHY: SEE GRADING PLAN SHEET C301.

A25 FOR DELINEATION OF ALL PROPOSED LAND-DISTURBING ACTIVITIES, INCLUDING KNOWN OFF-SITE ACTIVITIES THAT WILL PROVIDE SERVICES TO THE PROJECT SITE, SEE PLAN SHEETS C201, C301, C401, AND C501-C503.

A26 FOR LOCATION, SIZE, AND DIMENSIONS OF ALL STORMWATER DRAINAGE SYSTEMS, SUCH AS CULVERTS, STORM SEWERS, AND CONVEYANCE CHANNELS SEE PLAN SHEETS C102, AND C401

A27 LOCATIONS OF SPECIFIC POINTS WHERE STORMWATER AND NON-STORMWATER DISCHARGES WILL LEAVE THE PROJECT SITE: SEE PLAN SHEETS C102, C104 AND C401-C402.

THE DISTURBED PROJECT AREAS DRAIN EASTERLY TO AN ONSITE DETENTION FACILITY. THE DETENTION BASIN WILL OUTLET TO STANSBURY CREEK ALONG THE EAST SIDE OF THE PROJECT SITE.

A28 LOCATION OF ALL PROPOSED SITE IMPROVEMENTS, INCLUDING ROADS, UTILITIES, LOT DELINEATION AND IDENTIFICATION, PROPOSED STRUCTURES, AND COMMON AREAS: SEE SHEETS C201, C301, AND C401.

A29 LOCATION OF ALL ON-SITE SOIL STOCKPILES AND BORROW AREAS AND, WHEN KNOWN AT THE TIME OF SUBMITTAL, THE LOCATION OF ALL OFF-SITE BORROW, SOIL STOCKPILES, AND DISPOSAL AREAS: NONE ANTICIPATED AT THIS TIME.

A30 CONSTRUCTION SUPPORT ACTIVITIES THAT ARE EXPECTED TO BE PART OF THE PROJECT (E.G., STAGING AREAS, DISPOSAL SITES, ETC.): SEE SHEETS C501 & C502 AS APPLICABLE.

A31 LOCATION OF ANY IN-STREAM ACTIVITIES THAT ARE PLANNED FOR THE PROJECT INCLUDING, BUT NOT LIMITED TO STREAM CROSSINGS AND PUMP AROUNDS: N

SECTION B - EROSION AND SEDIMENT CONTROL/PROJECT SITE MANAGEMENT

B1 DESCRIPTION OF THE POTENTIAL POLLUTANT GENERATING SOURCES AND POLLUTANTS:
POTENTIAL POLLUTANTS FROM CONSTRUCTION ACTIVITY SUCH AS OIL, GREASE, ANTIFREEZE, GASOLINE AND DIESEL FUEL FROM CONSTRUCTION EQUIPMENT; SOIL EROSION FROM CONSTRUCTION ACTIVITIES; FERTILIZER AND PESTICIDES FROM LANDSCAPING.

B2 CONSTRUCTION ENTRANCE: SEE STORMWATER POLLUTION PREVENTION PLAN SHEET C501 & C502 FOR LOCATION AND SHEET C506 FOR CONSTRUCTION ENTRANCE DETAILS AND SPECIFICATIONS.

B3 SPECIFICATIONS FOR TEMPORARY AND PERMANENT STABILIZATION: SEE PLAN SHEETS C502-C503, ALONG WITH SHEET C506, FOR SPECIFIC INFORMATION, LAYOUTS, NOTES AND DETAILS. THE PERMANENT STABILIZATION IS PERMANENT SEEDED OVER ALL DISTURBED AREAS WITH SELECTED AREAS AS DENOTED ON SHEETS C503 WITH EROSION CONTROL BLANKETS. EROSION CONTROL BLANKET DETAILS ARE LOCATED ON SHEET C506.

B4 SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW AREAS:
AFTER CONSTRUCTION OF THE STORM SEWERS, IMMEDIATELY OUTLET RIP-RAP PROTECTION (SEE SHEET C503) WILL BE INSTALLED. A ROCK CHECK DAM WILL BE INSTALLED FOR THE SWALE AS SHOWN ON SHEET C502.

FOR RIP-RAP OUTLET PROTECTION DETAILS AND SPECIFICATIONS SHEET SHEET C503 / C506ONE FOR THIS PROJECT.

B5 SEDIMENT CONTROL PLAN FOR SHEET FLOW AREAS: SEE STORMWATER POLLUTION PREVENTION PLAN SHEETS C501 & C502. DURING CONSTRUCTION SEDIMENT AND POLLUTION CONTROL WILL BE HANDLED BY EROSION CONTROL SILT FENCES AND SILT SOCKS AS LOCATED AROUND THE PROJECT DISTURBED AREAS. FOR SILT FENCE AND SILT SOCK DETAILS AND SPECIFICATIONS SHEET SHEET C506.

AFTER CONSTRUCTION, PERMANENT SEEDING WITH EROSION CONTROL BLANKETS (AS REQUIRED) WILL BE INSTALLED FOR POST CONSTRUCTION SHEET FLOW SEDIMENT CONTROL. FOR PERMANENT SEEDING SCHEDULE SEE SHEET C506.

B6 RUNOFF CONTROL MEASURES: SEE STORMWATER POLLUTION PREVENTION PLAN SHEETS C501-C502. SEE STORMWATER POLLUTION PREVENTION PLAN SHEETS C502 AND C503. AS SOON AS THE STORM SEWER OUTLET PIPE WITH END SECTION IS INSTALLED, THE CONTRACTOR SHALL IMMEDIATELY INSTALL THE RIP-RAP OUTLET PROTECTION FOR THIS PROJECT. FOR RIP-RAP PROTECTION DETAILS SEE SHEET C506

B7 STORM WATER OUTLET PROTECTION SPECIFICATIONS:

-EXAMPLE-
THERE ARE NO DIRECT OUTLETS FOR THE STORM WATER CONVEYANCE SYSTEMS AS THEY DIRECTLY CONNECT INTO AN EXISTING STORM SEWER MASTER PLAN TRUNK LINE.

-EXAMPLE 2 -
SEE STORMWATER POLLUTION PREVENTION PLAN SHEETS C502-C503. THIS PROJECT HAS 1 OUTLET POINTS FOR THE ONSITE STORM SEWER SYSTEMS THAT DRAIN INTO THE ONSITE DETENTION FACILITY. AFTER CONSTRUCTION OF THE STORM SEWER(S), IMMEDIATELY OUTLET RIP-RAP PROTECTION (SEE SHEET C502 & C503) WILL BE INSTALLED. FOR RIP-RAP OUTLET PROTECTION DETAILS AND SPECIFICATIONS SEE SHEET SHEET(S) C506.

B8 GRADE STABILIZATION STRUCTURE LOCATIONS AND SPECIFICATIONS: THIS PROJECT DOES NOT REQUIRE ANY SITE SPECIFIC GRADE STABILIZATION STRUCTURES.

B9 DEWATERING APPLICATIONS AND MANAGEMENT METHODS (BASIN OUTLET MEASURES, FLOCCULANTS ETC.): SEE SHEETS C901 FOR DEWATERING INFORMATION.

B10 MEASURES UTILIZED FOR WORK WITHIN WATERBODIES (CROSSINGS, COFFER DAMS, ETC.): NONE FOR THIS PROJECT (NOT APPLICABLE).

B11 MONITORING AND MAINTENANCE GUIDELINES FOR POLLUTION PREVENTION MEASURES:

SILT FENCE / SILT SOCK (PERIMETER PROTECTION MEASURES) MAINTENANCE REQUIREMENTS
1. INSPECT THE SILT PERIMETER PROTECTION PERIODICALLY AND AFTER EACH STORM EVENT.
2. IF FENCE FABRIC OR SILT SOCKS TEAR, STARTS TO DECOMPOSE OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY.
3. REMOVE DEPOSITED SEDIMENT WHEN IT REACHES HALF THE HEIGHT OF THE FENCE OR SILT SOCK AT IT'S LOWEST POINT OR IS CAUSING THE FABRIC TO BULGE.
4. TAKE CARE TO AVOID UNDERMINING THE FENCE OR SILT SOCK DURING CLEAN OUT.
5. AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE THE SEDIMENT AND SILT PERIMETER PROTECTION AND SEDIMENT DEPOSITS, BRING THE DISTURBED AREA TO GRADE AND STABILIZE IT.

TEMPORARY GRAVEL/ STONE CONSTRUCTION MAINTENANCE REQUIREMENTS
1. INSPECT ENTRANCE PAD AND SEDIMENT DISPOSAL AREA WEEKLY AND AFTER STORM EVENTS OR HEAVY USE.
2. RESHAPE AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
3. TOP-DRESS WITH CLEAN STONE AS NEEDED.
4. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO STREETS BY BRUSHING OR SWEEPING. FLUSHING SHOULD ONLY BE USED IF THE WATER IS CONVEYED INTO A SEDIMENT TRAP OR BASIN.
5. REPAIR ANY BROKEN ROAD PAVEMENT IMMEDIATELY.

TEMPORARY CONSTRUCTION ENTRANCE (IN LEAU OF GRAVEL / STONE ENTRANCE) MAINTENANCE REQUIREMENTS
1. INSPECT ENTRANCE DAILY AND STREET / PAVEMENT SWEEP CLEAN DAILY AT THE END OF EACH CONSTRUCTION WORK DAY.
2. IF WEATHER CONDITIONS OR WORK DICTATE, SWEEP CLEANING MAY BE REQUIRED MULTIPLE TIMES A DAY TO KEEP THE ADJACENT ROADWAY, DRIVES, PARKING LOTS (HARDSCAPES) CLEAN THROUGHOUT THE WORK CYCLE.
3. REPAIR ANY BROKEN ROAD PAVEMENT IMMEDIATELY.

INLET PROTECTION MAINTENANCE REQUIREMENTS
1. AFTER EACH STORM EVENT REMOVE THE SEDIMENT AND REPLACE THE GEOTEXTILE FABRIC IF USED.
2. PERIODICALLY REMOVE SEDIMENT AND TRACKED-ON SOIL FROM THE STREET, WITHOUT FLUSHING, TO REDUCE THE THE SEDIMENT LOAD ON THE INLET PROTECTION.
3. INSPECT CASTING COVER PERIODICALLY FOR DAMAGE AND REPAIR. KEEP GRATES FREE OF DEBRIS.
4. AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE THE SEDIMENT DEPOSITS AND DISPOSE OF THEM PROPERLY. REMOVE THE INLET PROTECTION DEVICES AND DISPOSE OF THEM PROPERLY PER LOCAL AND STATE REQUIREMENTS.

CONCRETE WASHOUT MAINTENANCE REQUIREMENTS
1. WASHOUTS SHOULD BE INSPECTED DAILY AND AFTER EACH STORM EVENT TO CHECK FOR LEAKS OR DAMAGE.
2. WHEN THE WASHOUT CONTAINER IS FILLED TO OVER 75 PERCENT OF ITS CAPACITY, THE WASHWATER SHOULD BE VACUUMED OFF OR ALLOWED TO EVAPORATE TO AVOID OVERFLOWS. THEN WHEN THE REMAINING CEMENTITIOUS SOLIDS HAVE HARDENED, THEY SHOULD BE REMOVED AND RECYCLED.
3. DAMAGES TO THE WASHOUT / CONTAINER SHOULD BE REPAIRED IMMEDIATELY.
4. BEFORE HEAVY RAINS, THE WASHOUT CONTAINER'S LIQUID LEVEL SHOULD BE LOWERED OR THE CONTAINER SHOULD BE COVERED TO AVOID AN OVERFLOW DURING THE RAIN STORM.
5. ALL WASHWATER, CONCRETE, DEBRIS, ETC. SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS.

TEMPORARY SEDIMENT TRAP / ROCK CHECK DAMS MAINTENANCE REQUIREMENTS
1. INSPECT TEMPORARY SEDIMENT TRAPS AND ROCK CHECK DAMS AFTER EACH STORM EVENT AND IMMEDIATELY REPAIR ANY EROSION AND PIPING HOLES.
2. REMOVE SEDIMENT WHEN IT HAS ACCUMULATED TO WITHIN 6" OF CASTING (IF APPLICABLE).
3. AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, REMOVE THE STRUCTURE AND SEDIMENT, SMOOTH THE SITE TO BLEND WITH ADJOINING AREAS AND STABILIZE IT.

RIPRAP OUTLET MAINTENANCE REQUIREMENTS
1. INSPECT AFTER EACH STORM EVENT AND IMMEDIATELY REPAIR ANY EROSION. REPLACE RIP-RAP ROCK AS REQUIRED.
2. REMOVE SEDIMENT AND DEBRIS WHEN IT HAS ACCUMULATED TO WITHIN 3 INCHES OF ADJACENT STORM PIPE (IF APPLICABLE).

EROSION CONTROL BLANKET MAINTENANCE REQUIREMENTS
1. DURING VEGETATIVE ESTABLISHMENT, INSPECT AFTER EACH STORM EVENT FOR ANY EROSION BELOW THE BLANKET.
2. IF ANY AREA(S) SHOW EROSION, PULL BACK THAT PORTION OF THE BLANKET COVERING IT, RE-SEED THE AREA AND RELAY AND STAPLE THE BLANKET.
3. AFTER VEGETATIVE ESTABLISHMENT CHECK THE TREATED AREA PERIODICALLY.

B12 SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION RELATIVE TO LAND DISTURBING ACTIVITIES: SEE SHEET C504 FOR CONSTRUCTION SEQUENCING.

B13 EROSION & SEDIMENT CONTROL SPECIFICATIONS FOR INDIVIDUAL BUILDING LOTS: THERE ARE NO INDIVIDUAL BUILDING LOTS ASSOCIATED WITH THIS PROJECT.

B14 MATERIAL HANDLING AND SPILL PREVENTION PLAN: LOCATED ON THIS SHEET TO THE RIGHT.

B15 MATERIAL HANDLING AND STORAGE PROCEDURES ASSOCIATED WITH CONSTRUCTION ACTIVITY DESCRIBING THE MANAGEMENT AND DISPOSAL OF CONSTRUCTION PRODUCTS AND WASTE, INCLUDING CONCRETE AND CEMENTATION WASHOUT AREAS AND MANAGEMENT MEASURES. SEE "MATERIAL HANDLING AND SPILL PREVENTION PLAN" AS LOCATED ON THIS SHEET TO THE RIGHT.

SECTION C - STORMWATER POLLUTION PREVENTION PLAN - POST-CONSTRUCTION PHASE

C1 DESCRIPTION OF POLLUTANTS AND THEIR SOURCES ASSOCIATED WITH THE PROPOSED LAND USE: SILT AND SEDIMENT FROM EXPOSED SOILS, LEAVES, MULCH, VEHICULAR SOURCES SUCH AS LEAKING FUEL OR OIL, BRAKE FLUID, BRAKE DUST, GREASE, ANTIFREEZE, METALS, RUBBER FRAGMENTS, ROAD GRIT, SALTS AND SANDS, CONSTRUCTION TRASH AND DEBRIS, FERTILIZERS, CLEANING AGENTS, CHEMICALS, PAINT, ANIMAL WASTE, ELEVATED STORM RUNOFF TEMPERATURES, PESTICIDES AND PATHOGENS.

C2 DESCRIPTION OF PROPOSED POST CONSTRUCTION STORMWATER QUALITY MEASURES:
1. PERMANENT SEEDING AND LANDSCAPE PLANT MATERIAL
2. ON GOING MAINTENANCE BY THE OWNER TO INSURE THAT SEDIMENT, TRASH AND POLLUTANTS DO NOT LEAVE THE SITE.
3. PROJECT AREA DRAINS INTO STORM SEWER TRUNK LINES THAT HAVE ONSITE WET DETENTION POND FACILITIES THAT WILL TREAT THE STORM WATER ASSOCIATED WITH THESE DISTURBANCE AREAS.

C3 LOCATION, DIMENSIONS, SPECIFICATIONS, AND CONSTRUCTION DETAILS OF EACH STORMWATER QUALITY MEASURES: SEE STORMWATER POLLUTION PREVENTION PLAN SHEETS C501-C503 FOR LOCATIONS AND SHEETS C506 FOR DETAILS AND SPECIFICATIONS.

C4 SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION:
1. INSPECT AND MAINTAIN ALL EROSION CONTROL MEASURES AS DETAILED IN THE STORMWATER POLLUTION PREVENTION MEASURES MAINTENANCE REQUIREMENTS BEGINNING IMMEDIATELY AFTER INSTALLATION AND CONTINUING UNTIL VEGETATION HAS BEEN SUFFICIENTLY ESTABLISHED AND ALL CONSTRUCTION ACTIVITY IS COMPLETE.
2. REMOVE ALL SILT FENCES, SILT SOCKS, INLET PROTECTION, CHECK DAMS, SEDIMENT TRAPS, ETC. ONLY AFTER SEEDING AND SUFFICIENT VEGETATIVE GROWTH HAS BEEN ESTABLISHED AND WATER QUALITY DEVICES HAVE BEEN IMPLEMENTED AND / OR INSTALLED (IF APPLICABLE TO THE PROJECT) IN EACH AREA TO A POINT WHERE SEDIMENT AND POLLUTANTS WILL NOT LEAVE THE SITE OR DRAIN INTO ANY ADJACENT WATERBODIES OR WATERCOURSES.
3. INSPECTION AND MAINTENANCE OF ALL AREAS IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ACCEPTED BY THE GOVERNING MS4 OFFICE. INSPECTION AND MAINTENANCE OF BMP'S SHALL FOLLOW TIME TABLES SET FORTH IN THE MAINTENANCE AND OPERATIONS MANUAL.

C5 DESCRIPTION OF MAINTENANCE GUIDELINES FOR POST CONSTRUCTION STORMWATER QUALITY MEASURE:
THE PROJECT SITE HAS BEEN DESIGNED TO MINIMIZE IMPERVIOUS SURFACES AND MAXIMIZE VEGATATIVE COVER. OWNER SHALL INSPECT VEGETATIVE COVER FOR HEALTH AND PROVIDE FERTILIZER AND/OR WATER AS NEEDED TO MAINTAIN AT LEAST 75% GRASS COVERAGE. IN LANDSCAPE BEDS TREES AND SHRUBS SHALL BE INSPECTED FOR HEALTH AND KEPT FREE OF TRASH. THE ONSITE DETENTION AND WATER QUALITY FACILITIES ARE MAINTAINED BY THE OWNER OF GREEN TOUCH SERVICES .

C6 ENTITY THAT WILL BE RESPONSIBLE FOR OPERATION AND MAINTENANCE OF THE POST-CONSTRUCTION SYSTEM FOR THIS PROJECT SITE:

OWNER CONTACT INFORMATION: GREEN TOUCH SERVICES, 6314 W BROADWAY, MCCORDSVILLE, IN 46055

MATERIAL HANDLING AND SPILL PREVENTION & RESPONSE PLAN (CSGP ITEM "B14" & "B15")

PURPOSE

The intention of this spill prevention, control and countermeasures (SPCC) is to establish the procedures and equipment required to prevent the discharge of oil and hazardous substances in quantities that violate applicable water quality standards, cause a sheen upon or discoloration of the surface of adjacent waterways / watercourses / waterbodies and navigable waters or adjoining shorelines, or cause sludge or emulsion to be deposited beneath the surface of the water or adjoining shorelines. the plan also establishes the activities required to mitigate such discharges (i.e., countermeasures) should they occur.

Definitions:
Pollutant: Means pollutant of any kind or in any form, including but not limited to sediment, paint, cleaning agents, concrete washout, pesticides, nutrients, trash, hydraulic fluids, fuel, oil, petroleum, fuel oil, sludge, oil refuse, and oil mixed with wastes other than dredged soil.
Discharge:
Includes but is not limited to, any spilling, leaking, pumping, pouring, emitting, emptying, or dumping.
Navigable waters:
Means all waters of the unites states that are connected with a navigable stream, lake, or sea. [Note: This definition is usually interpreted to mean any wastewater (even normally dry wash or storm sewer) that eventually drains into a navigable stream].
Pan review and amendments:
This plan shall be reviewed and/or amended, if necessary, whenever there is a change in the design of the site, construction, operation, or maintenance which materially affects the sites' potential for the discharge of regulated material.

PREDICTION OF POTENTIAL SPILLS

1. Nearest navigable water: White River
2. Possible spill sources (during and post construction): Vehicular sources such as leaking fuel or oil, brake fluid, grease, antifreeze; construction trash and debris, biological agents found in trash and debris, fertilizers, household items including but not limited to cleaning agents, chemicals, paint, herbicides and pesticides.
3. Groundwater contamination: This facility maintains no above ground or under ground storage tanks. therefore, it is felt that there is little or no possibility of post construction groundwater contamination.

VEHICLE AND EQUIPMENT MAINTENANCE

DESCRIPTION AND PURPOSE
Prevent or reduce the contamination of stormwater resulting from vehicle and equipment maintenance by running a "dry and clean site". The best option would be to perform maintenance activities at an offsite facility. If this option is not available then work should be performed in designated areas only, while providing cover for materials stored outside, checking for leaks and spills, and containing and cleaning up spills immediately.

SUITABLE APPLICATIONS
These procedures are suitable on all construction projects where on onsite yard area is necessary for storage and maintenance of heavy equipment and vehicles.

LIMITATIONS
Onsite vehicle and equipment maintenance should only be used where it is impractical to send vehicles and equipment offsite for maintenance and repair. Sending vehicles/equipment offsite should be done in conjunction with a stabilized construction entrance / exit. Outdoor vehicle or equipment maintenance is a potentially significant source of stormwater pollution. Activities that can contaminate stormwater include engine repair and service, changing or replacement of fluids, and outdoor equipment storage and parking (engine fluid leaks).

IMPLEMENTATION
- If maintenance must occur onsite, use designated areas, located away from drainage courses. Dedicated maintenance areas should be protected from stormwater runon and runoff, and should be located at least 50 feet from downstream drainage facilities and watercourses.
- Drip pans or absorbent pads should be used during vehicle and equipment maintenance work that involves fluids, unless the maintenance work is performed over on impermeable surface in a dedicated maintenance area.
- Place a stockpile of spill cleanup materials where it will be readily accessible.
- All fueling trucks and fueling areas are required to have spill kits and/or use other spill protection devices.
- Use absorbent materials on small spills. Remove the absorbent materials promptly and dispose of properly.
- Inspect onsite vehicles and equipment daily at startup for leaks, and repair immediately. Keep vehicles and equipment clean; do not allow excessive build-up of oil and grease.
- Segregate and recycle wastes, such as greases, used oil or oil filters, antifreeze, cleaning solutions, automotive batteries, hydraulic and transmission fluids. Provide secondary containment and covers for these materials if stored onsite.
- Train employees and subcontractors in proper maintenance and spill cleanup procedures.
- Drip pans or plastic sheeting should be placed under all vehicles and equipment placed on docks, barges, or other structures over water bodies when the vehicle or equipment is planned to be idle for more than 1 hour. Properly dispose of used oils, fluids, lubricants, and spill cleanup materials. Do not place used oil in a dumpster or pour into a storm drain or watercourse. Properly dispose of or recycle used batteries. Do not bury used tires. Repair leaks of fluids and oil immediately.
- Listed below is further information if you must perform vehicle or equipment maintenance onsite.

INSPECTION AND MAINTENANCE
- Inspect and verify that BMP's are in place prior to the commencement of associated activities. while activities associated with the BMP are under way, inspect weekly to verify continued BMP implementation.
- Keep ample supplies of spill cleanup materials onsite. Maintain waste fluid containers in leak proof condition.
- Vehicles and equipment should be inspected on each day of use. Leaks should be repaired immediately or the problem vehicle(s) or equipment should be removed from the project site. Inspect equipment for damaged hoses and leaky gaskets routinely. Repair or replace as needed.

VEHICLE AND EQUIPMENT FUELING

DESCRIPTION AND PURPOSE
Vehicle equipment fueling procedures and practices are designed to prevent fuel spills and leaks, and reduce or eliminate contamination of stormwater. This can be accomplished by using offsite facilities, fueling in designated areas only, enclosing or covering stored fuel, implementing spill controls, and training employees and subcontractors in proper fueling procedures.

LIMITATIONS
Onsite vehicle and equipment fueling should only be used where it is impractical to send vehicles and equipment offsite for fueling. Sending vehicles and equipment offsite should be done in conjunction with a stabilized construction entrance / exit.

IMPLEMENTATION
- Use offsite fueling stations as much as possible. These businesses are better equipped to handle fuel and spills properly. Performing this work offsite can also be economical by eliminating the need for a separate fueling area at a site.
- Discourage "topping-off" of fuel tanks.
- Absorbent spill cleanup materials and spill kits should be available in fueling areas and on fueling trucks, and should be disposed of properly after use.
- Drip pans or absorbent pools should be used during vehicle and equipment fueling, unless the fueling is performed over an impermeable surface in a dedicated fueling area.
- Use absorbent materials on small spills. Do not hose down or bury the spill. Remove the absorbent materials promptly and dispose of properly.
- Avoid mobile fueling of mobile construction equipment around the site; rather, transport the equipment to designated fueling areas.
- Train employees and subcontractors in proper fueling and cleanup procedures.
- Dedicated fueling areas should be protected from stormwater runon and runoff, and should be located at least 50 feet away from downstream drainage facilities and watercourses. Fueling must be performed on level-grade areas.
- Protect fueling areas with berms and dikes to prevent runon, runoff, and to contain spills.
- Nozzles used in vehicle and equipment fueling should be equipped with an automatic shutoff to control drips. Fueling operations should not be left unattended.
- Federal, State, and Local requirements should be observed for any stationary above ground storage tanks.

INSPECTION AND MAINTENANCE
Vehicles and equipment should be inspected each day of use for leaks. Leaks should be repaired immediately or problem vehicles or equipment should be removed from the project site. Keep ample supplies of spill cleanup materials onsite. Immediately clean up spills and properly dispose of contaminated soil and cleanup materials.

SOLID WASTE MANAGEMENT

DESCRIPTION AND PURPOSE
Solid waste management procedures and practices are designed to prevent or reduce the discharge of pollutants to stormwater from solid or construction waste by providing designated waste collection areas and containers, arranging for regular disposal, and training employees and subcontractors.

SUITABLE APPLICATIONS
The BMP's are suitable for construction sites where the following wastes are generated or stored:
- Solid waste generated from trees and shrubs removed during land clearing, demolition of existing structures (rubble), and building construction.
- Packing materials including wood, paper, and plastic.
- Scrap or surplus building materials including scrap metals, rubber, plastic, glass pieces and masonry products.
- Domestic wastes including food containers such as beverage cans, coffee cups, paper bags, plastic wrappers, and cigarettes.
- Construction wastes including brick, mortar, timber, steel and metal scraps, pipe and electrical cuttings, non-hazardous equipment ports, styrofoam and other materials send transport and package construction materials.

IMPLEMENTATION
The following steps will help keep a clean site and reduce stormwater pollution:
- Select designated waste collection areas onsite.
- Inform trash-hauling contractors that you will accept only watertight dumpsters for onsite use.
- Inspect dumpsters for leaks and repair any dumpster that is not watertight.
- Provide an adequate number of containers with lids or covers that can be placed over the container to keep rain out or to prevent loss of wastes when it is windy.
- Plan for additional containers and more frequent pickups during the demolition phase of construction or as needed.
- Collect site trash daily, especially during rainy and windy conditions.
- Remove this solid waste promptly since erosion and sediment control devices tend to collect litter.
- Make sure that toxic liquid wastes (used oils, solvents, and paints) and chemicals (acids, pesticides, additives, curing compounds) are not disposed of in dumpsters designated for construction debris.
- Do not hose out dumpsters on the construction site. Leave dumpster cleaning to the trash hauling contractor.
- Arrange for regular waste collection before containers overflow.
- Clean up immediately if a container does spill.
- Make sure that construction waste is collected, removed, and disposed of only at authorized disposal areas.
- Inspect the storm manhole with snout. Remove any floating debris on a regular basis and have sumps professionally cleaned once a year. **Caution should be noted - all sumps are deep and potentially dangerous. Extreme care and safety measures along with OSHA guidelines should be followed.

COLLECTION, STORAGE, AND DISPOSAL
- Littering on the project site should be prohibited.
- To prevent clogging of the storm drainage system, litter and debris removal from drainage grates, trash rocks, and ditch lines should be a priority.
- Trash receptacles should be provided in the contractor's yard, field trailer areas, and at locations where workers congregate for lunch and break periods.
- Litter from work areas within the construction limits of the project site should be collected and placed in watertight dumpsters at least weekly, regardless of whether the litter was generated by the contractor, the public, or others. collected litter and debris should not be placed in or next to drain inlets, stormwater drainage systems, or watercourses.
- Dumpsters of sufficient size and number should be provided to contain the solid waste generated by the project.
- Full dumpsters should be removed from the project site and the contents should be disposed of by the trash hauling contractor.
- Construction debris and waste should be removed from the site biweekly or more frequently as needed.
- Construction material visible to the public should be stored or stocked in an orderly manner.
- Stormwater runon should be prevented from contacting stored solid waste through the use of berms, dikes, or other temporary diversion structures or through the use of measures to elevate waste from site surfaces.
- Solid waste storage areas should be located at least 50 feet from drainage facilities and water courses and should not be located in areas prone to flooding or ponding.

INSPECTION AND MAINTENANCE
- Inspect and verify that activity-based BMP's are in place prior to the commencement of associated activities. While activities associated with the BMP are under way, inspect weekly to verify continued BMP implementation.
- Inspect BMP's subject to non-stormwater discharge daily while non-stormwater discharges occur.
- Inspect construction waste area regularly.
- Arrange for regular waste collection.

MISCELLANEOUS

The contractor shall furnish and maintain sanitary facilities for this project for all personal. The facilities shall be cleaned as necessary and the waste materials shall be disposed of in accordance with the laws and regulations of the State of Indiana and local/county requirements.

Concrete trucks will wash out at the designated area near the construction entrance. The contractor shall take care to insure that no waste materials are discharged into the waters of the state. Each contractor is responsible to provide litter control for trash generated by his crew. All trash including but not limited to; solid waste, paint cans, oil cans, used oil and filters will be contained and disposed of by the contractor in accordance with the laws and regulations of the State of Indiana and local/county requirements.

SPILL PREVENTION PLAN AND ACTION

If a release containing a hazardous substance in an amount equal to or in excess of a reporting quantity established under either 40 CFR 117 or 40 CFR 302 occurs during a 24-hour period, the contractor will immediately notify the permittee who shall then do the following: notify the National Response Center (NCR) (800-424-8802) and the Indiana State Emergency Management Agency (317-232-3986); as well as the local/county emergency management, the local governing fire department (911), and the municipality's stormwater department and /or department of public works. Also, the engineer will prepare a revision to this document to identify measures to prevent the reoccurrence of such releases.

ALERT PROCEDURES FOR SPILLS:
1. Any personnel observing a spill will immediately instigate the following procedure:
   a.) Dialing "0" from any telephone.
   b.) Notify the appropriate emergency personnel.
2. The emergency coordinator will then take the following actions:
   a.) Barricade the area allowing no vehicles to enter or leave the spill zone.
   b.) Notify the Indiana department of environmental management, office of emergency response by calling the appropriate telephone number: 317-233-7745 toll free: 800-233-7745.
   Also contact the national response center at 800-424-8802 and provide the following instructions:
   - Time of observation of the spill
   - Location of the spill
   - Identity of material spilled
   - Probable source of the spill
   - Probable time of the spill
   - Volume of the spill and duration
   - Present and anticipated movement of the spill
   - Weather conditions
   - Personnel at the scene
   - Action initiated by personnel

   c.) Notify the local fire department phone: 9-1-1
   d.) Notify the County Soil and Water office.
   e.) Notify the MS4 department of the city's stormwater department.
   f.) Notify the local police department phone: 9-1-1
   g.) Notify waste recovery contractor, maintenance personnel or other contractual personnel as necessary for cleanup.
   h.) Coordinate and monitor cleanup until the situation has been stabilized and all spills have been eliminated.
   i.) Cooperate with the IDEM-OER or procedures and reports involved with the event.

CLEANUP PARAMETERS:
1. The owner shall be continually kept informed, maintain lists of qualified contractors and available vac-trucks, tank pumpers and other equipment readily accessible for clean up operations. In addition, a continually updated list of available absorbent materials and clean-up supplies should be kept on site.
2. All maintenance personnel will be made aware of techniques for prevention of spills. They will be informed of the requirements and procedures outlined in this plan. They will be kept abreast of current developments or new information on the prevention of spills and / or necessary alterations to this plan.
3. When spills occur which could endanger human life and this becomes primary concern, the discharge of the life saving protection function will be carried out by the local police and fire departments.
4. Absorbent materials, which are used in cleaning up spilled materials, will be disposed of in a manner subject to the approval of the Indiana Department of Environmental Management.
5. Flushing of spilled material with water will not be permitted unless so authorized by the Indiana Department of Environmental Management.

FRITZ
ENGINEERING SERVICES
14020 MISSISSINEWA DRIVE
CARMEL, INDIANA 46033
P: 317.324.8695 F: 317.324.8717
www.Fritz-Eng.com

PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS AND ISSUES	DATE	BY

GENERAL NOTES / LEGEND:

"IT'S THE LAW"
811
Know what's below.
Call before you dig.
2 WORKING DAYS BEFORE YOU DIG.

PROJECT:
Green Touch Services
GREEN TOUCH MCCORDSVILLE

PROJECT LOCATION:
6312 RAILROAD ST
MCCORDSVILLE, INDIANA 46055
HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE:
NE $\frac{1}{4}$, S26, T17N, R5E

CLIENT:
MacDOUGALL PIERCE CONSTRUCTION
12720 FORD DRIVE
FISHERS, IN 46038

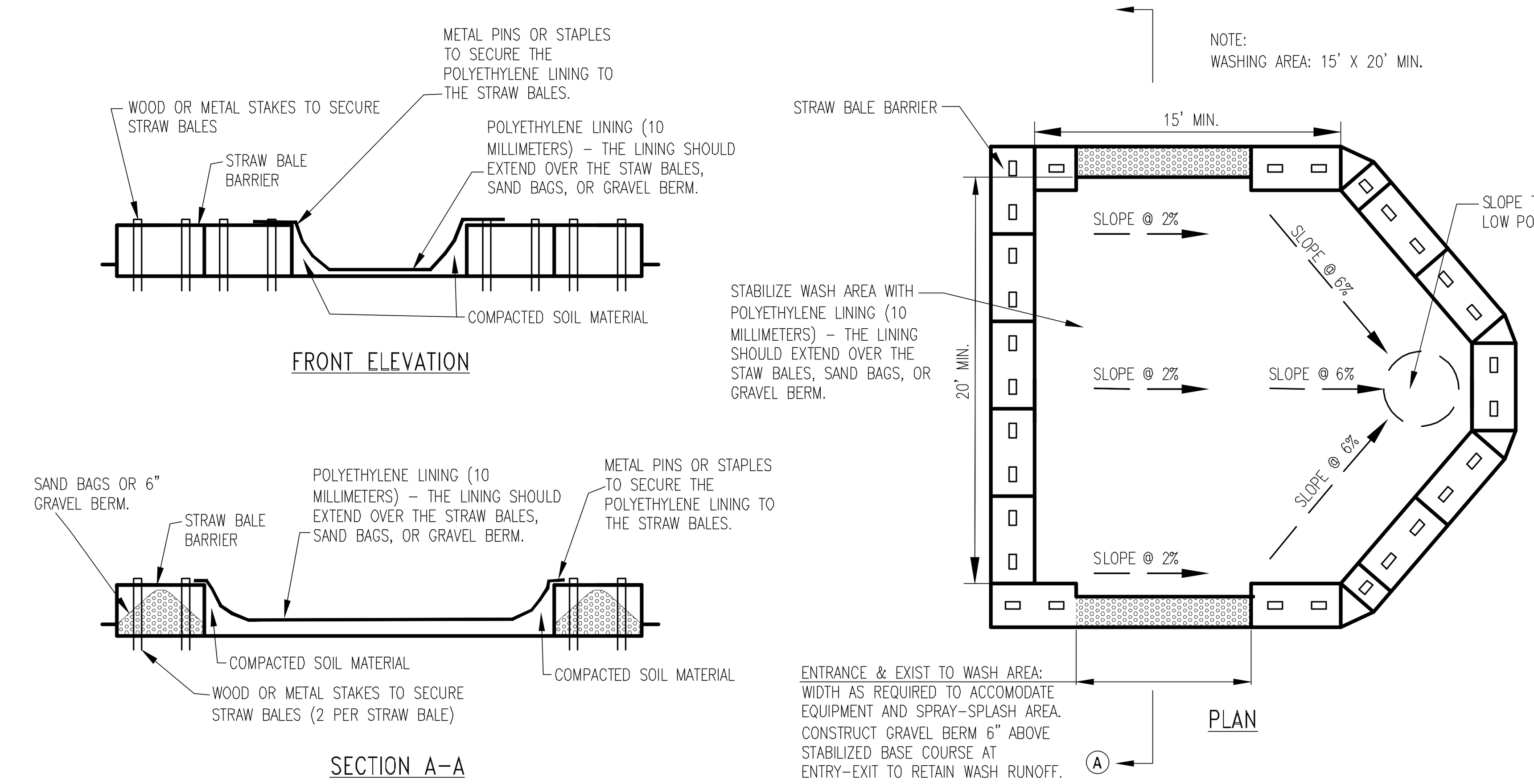
PLAN DATE: 3/8/2024

DESIGN: AF | CHECK: AF | DRAWN: KG

PROJECT NO. 2308005

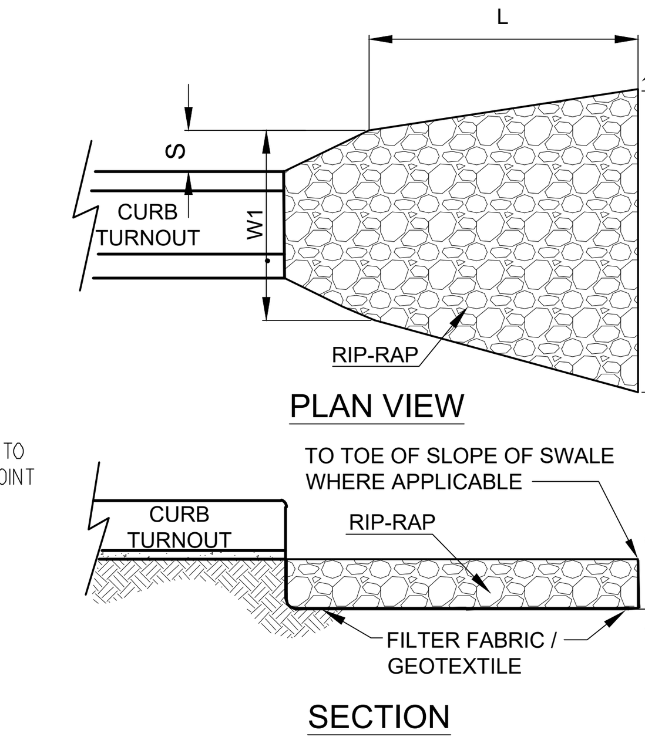
SHEET NAME
CSGP REPORT & SPILL PREVENTION

SHEET NO.
C505



CONCRETE WASHOUT AREA

NOT TO SCALE



MAINTENANCE:
1. INSPECT RIP-RAP APRON AFTER EACH STORM EVENT FOR STONE DISPLACEMENT AND EROSION AT SIDES AND ENDS OF THE APRON.
2. REMOVE AND STABILIZE EXCESS SEDIMENT EVIDENT ON APRON.
3. MAKE REPAIRS TO THE APRON IMMEDIATELY. USE APPROPRIATE STONE SIZE AND DO NOT PLACE ABOVE FINISHED GRADE.

NOTES & SPECIFICATIONS
1. RIP-RAP AND GEOTEXTILES SHALL MEET INDOT SPECIFICATIONS.
2. GEOTEXTILES / FILTER FABRIC TO BE INSTALLED AROUND RIP-RAP APRON.
3. IF PIPE SIZE IS UNIQUE AND SIZE OR I.D. NOT LISTED IN RIP-RAP TABLES, THE FOLLOWING CALCULATIONS CAN BE UTILIZED TO SIZE THE MINIMUM DIMENSIONS:
   - W1 = PIPE OUTER DIA. (O.D.) x 3
   - W2 = PIPE OUTER DIA. (O.D.) x 5
   - L = PIPE OUTER DIA. (O.D.) x 4
3. TABLES GOVERN OVER THE ABOVE CALCULATIONS.
4. RIP-RAP PROTECTION SHALL BE INSTALLED IMMEDIATELY AFTER STORM SEWER CONSTRUCTION IS COMPLETE.

RIP-RAP DIMENSIONS & TYPES

TYPE	VELOCITY , V (FT/SEC.)
REVETMENT	V ≤ 6.5
CLASS I	6.5 < V < 10
CLASS II	10 ≤ V ≤ 13

APRON	L	W1	W2	TYPE
I.D.	(FT)	(FT)	(FT)	RIP-RAP TYPE
###	12	5	15	REVETMENT
	#	#	#	REVETMENT

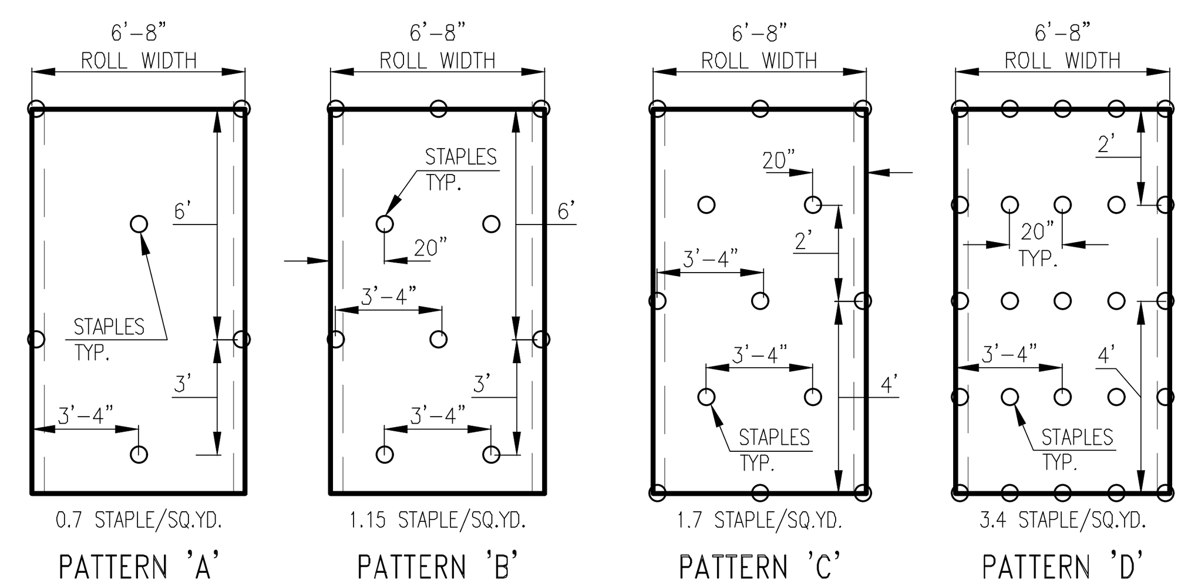
TYPE	T (IN)	S (IN) MIN.
REVETMENT	18	12
CLASS I	24	18
CLASS II	30	24

DIMENSIONS BASED ON INDOT DESIGN MANUAL.

RIP-RAP TYPE CLASSIFIED PER INDOT SPECIFICATIONS.

RIP-RAP CURB TURNOUT CHUTE PROTECTION

NOT TO SCALE

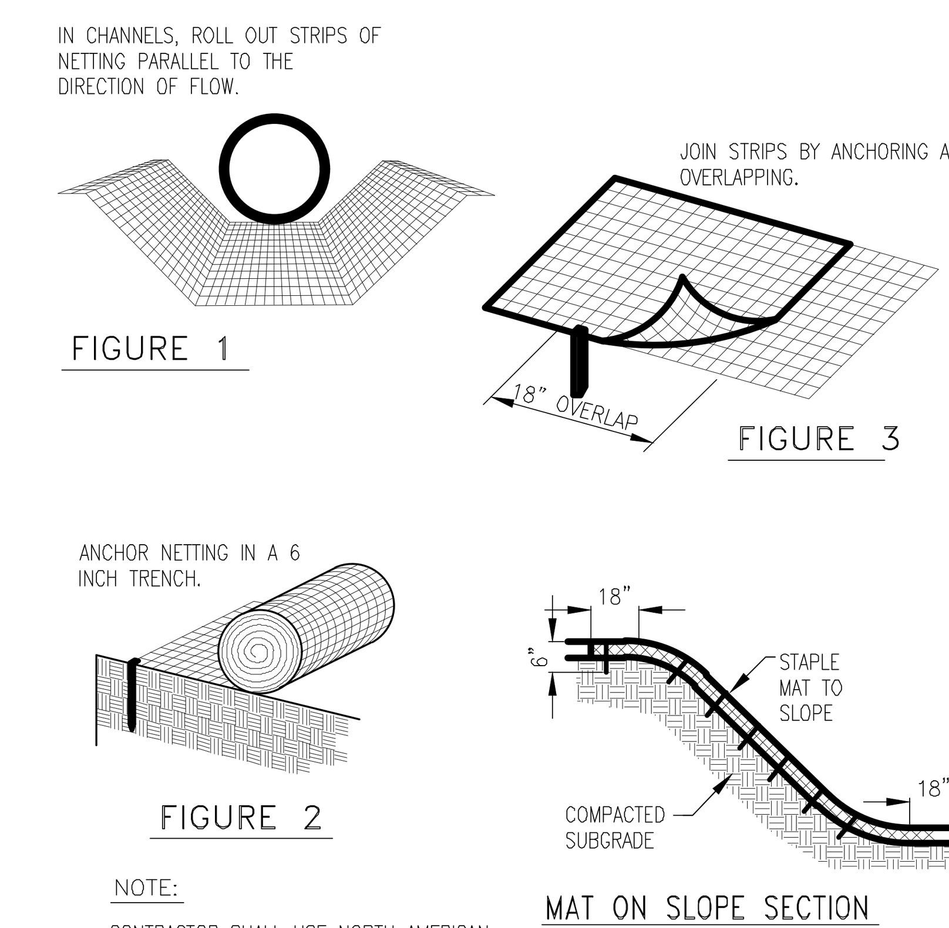


INSTALLATION:
1. BLANKET SHALL BE BIODEGRADEABLE WOOD, STRAW OR COCONUT–FIBER MAT ENCLOSED IN A PHOTODEGRADABLE MESH.
2. SWALE CHANNEL LININGS REQUIRE A 2' MIN. OVERLAP AT LONGITUDAL JOINTS. SIDESLOPES SHALL HAVE A 6" MIN. OVERLAP. THE UPSTREAM BLANKET SHALL ALWAYS OVERLAP THE DOWNSTREAM.
3. USE 6 INCH, 11 GA. WIRE "U" STAPLES. LONGER OR HEAVIER GAUGE STAPLES MAY BE NECESSARY FOR SOME SOIL TYPES.
4. USE STAPLE PATTERN INDICATED OR MANUFACTURER'S RECOMMENDATION, WHICHEVER REQUIRES THE GREATER STAPLE FREQUENCY.
5. STAPLE PATTERNS SHOWN APPLY TO NORTH AMERICAN GREEN BLANKETS. STAPLE PATTERNS MAY VARY BASED ON SOIL CONDITIONS AND RAINFALL AMOUNTS. INSTALL OTHER BLANKETS ARE INSTALLED FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.

MAINTENANCE:
1. INSPECT WEEKLY, AND AFTER EACH STORM EVENT. ESPECIALLY AT THE EDGES OF BLANKETS WHERE EROSION MAY UNDERCUT THE MATERIAL.
2. REPAIR AND REPLACE DAMAGED MATERIAL AND ERODED BASE AREAS IMMEDIATELY.
3. RESTAPLE AND RESECURE AS NEEDED FOR EROSION CONTROL.

EROSION CONTROL BLANKETS

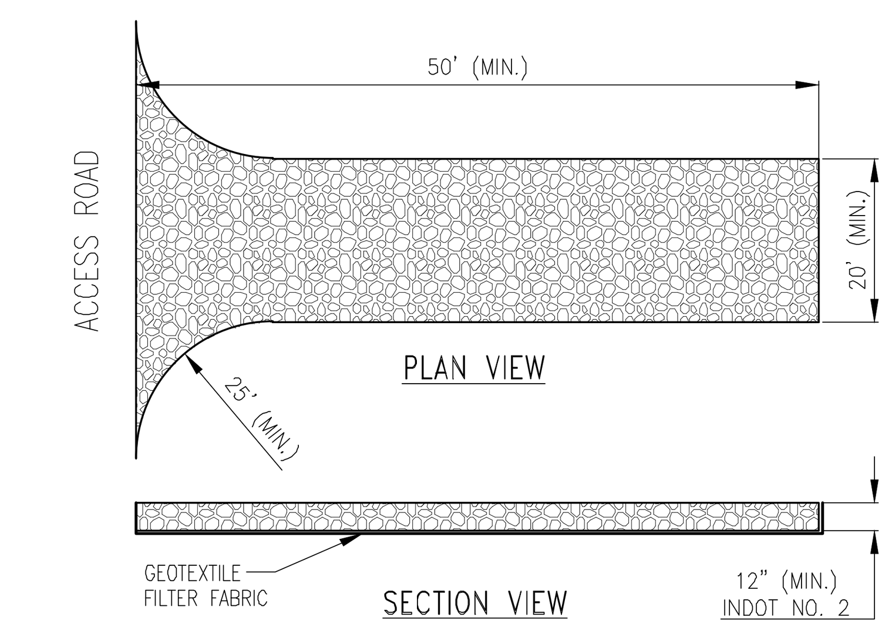
NOT TO SCALE



NOTE:
CONTRACTOR SHALL USE NORTH AMERICAN GREEN SC150 BLANKET OR APPROVED ALTERNATE.

EROSION CONTROL BLANKET

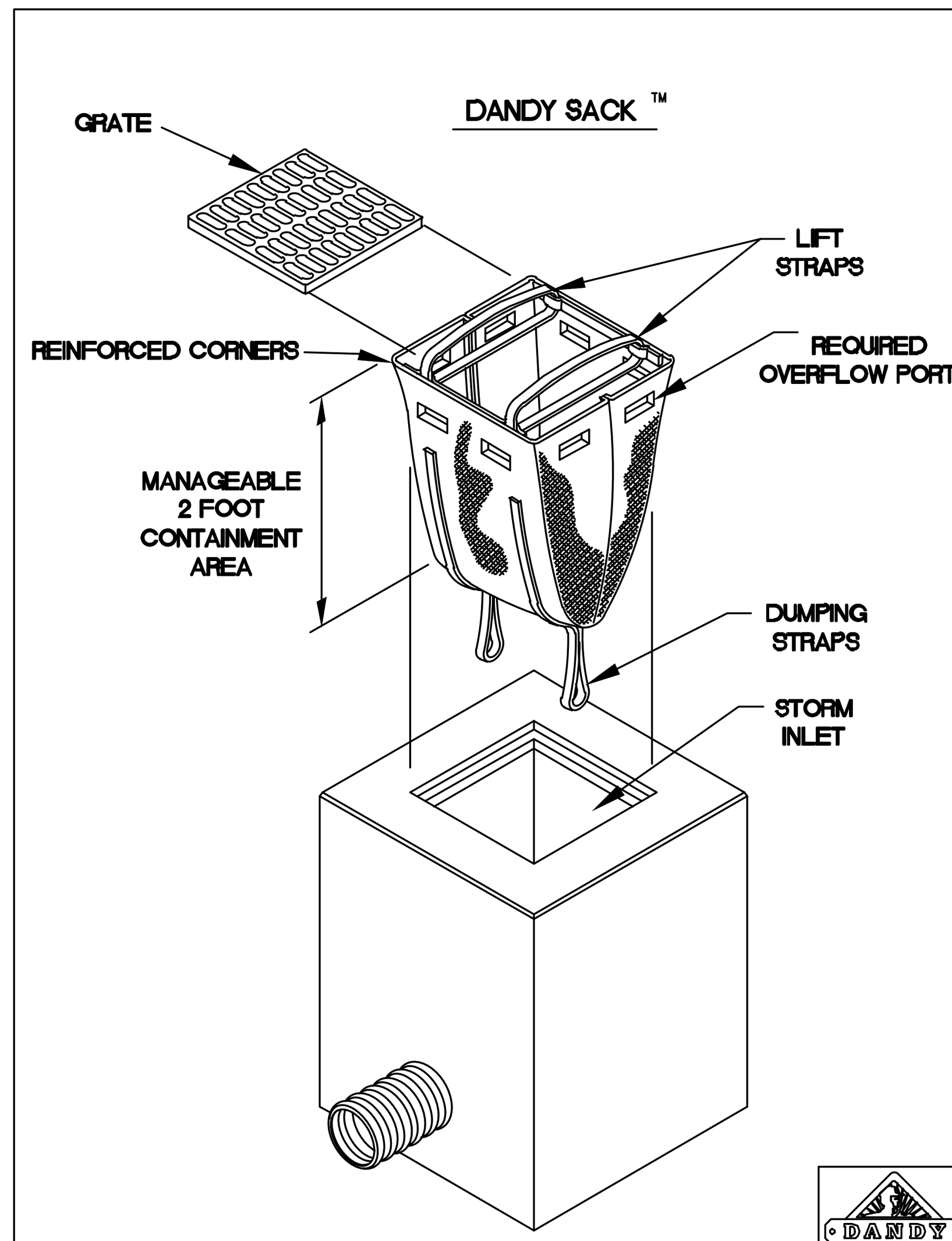
NOT TO SCALE



MAINTENANCE:
1. INSPECT WEEKLY, AND AFTER EACH STORM EVENT OR HEAVY USE.
2. RESHAPE AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
3. TOPDRESS WITH CLEAN STONE AS REQUIRED. MAINTAIN MINIMUM DEPTH THROUGHOUT CONSTRUCTION.
4. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY SWEEPING OR BRUSHING. (DO NOT FLUSH AREA WITH WATER.)
5. REPAIR ANY BROKEN PAVEMENT IMMEDIATELY.

STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE – PRACTICE 3.0



DANDY SACK™
SPECIFICATIONS

NOTE: 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
Grab Tensile Strength	ASTM D 4632	kN (lbs)	1.78 (400) x 1.40 (315)
Grab Tensile Elongation	ASTM D 4632	%	15 x 15
Puncture Strength	ASTM D 4833	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 Resistence	ASTM D 4355	%	90
Apparent Opening Size	ASTM D 4751	Mm (US Std Sieve)	0.425 (40)
Flow Rate	ASTM D 4491	1/min/m² (gal/min/ft²)	2852 (70)
Permittivity	ASTM D 4491	Sec	0.90

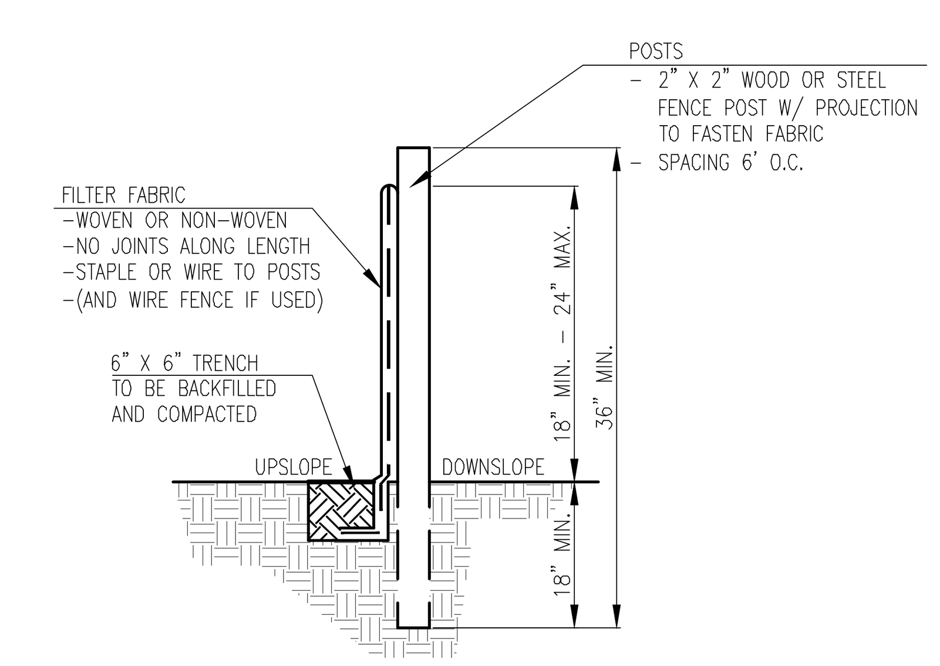
HI–FLOW DANDY SACK™ (SAFETY ORANGE)

Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4632	kN (lbs)	1.62 (365) X 0.89 (200)
Grab 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)	3097 (450)
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.51 (115) X 0.33 (75)
UV Resistence	ASTM D 4355	%	90
Apparent Opening Size	ASTM D 4751	Mm (US Std Sieve)	0.425 (40)
Flow Rate	ASTM D 4491	1/min/m² (gal/min/ft²)	5907 (145)
Permittivity	ASTM D 4491	Sec	2.1

*Note: All Dandy Sacks™ can be ordered with our optional oil absorbent pillows

DETAIL OF INLET SEDIMENT CONTROL DEVICE

PROJECT:		DR. BY:
CITY/STATE:	DATE:	DR. NO:



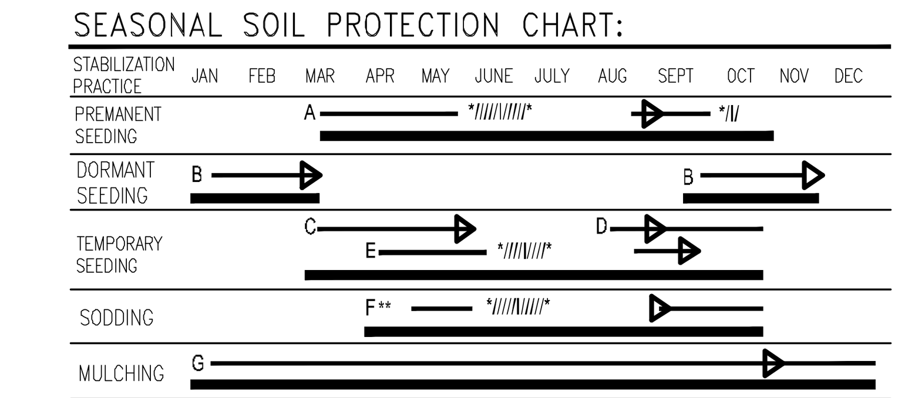
INSTALLATION:
1. THE BOTTOM 1' OF THE FENCE SHALL BE BURIED IN THE TRENCH ON THE UPSLOPE SIDE.
2. FENCE SHALL BE INSTALLED ALONG LEVEL GRADES, NOT ACROSS FLOW CHANNELS.
3. IF OPTIONAL SUPPORT WIRE FENCE IS USED, POST SPACING MAY BE EXTENDED TO 8' O.C.

MAINTENANCE:
1. INSPECT SILT FENCE PERIODICALLY (WEEKLY) AND AFTER EACH STORM EVENT.
2. IF FABRIC IS TORN OR DAMAGED OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY.
3. REMOVE DEPOSITED SEDIMENT WHEN IT REACHES HALF THE HEIGHT OF THE FENCE, OR IT IS CAUSING THE FABRIC TO BULGE.
4. TAKE CARE NOT TO UNDERMINE THE FENCE DURING SEDIMENT REMOVAL.
5. AFTER THE CONTRIBUTING AREA HAS BEEN STABILIZED, REMOVE THE FENCE AND REMAINING SEDIMENT, BRING THE DISTURBED AREA TO GRADE, AND STABILIZE.

SILT FENCE SECTION

NOT TO SCALE – PRACTICE 3.74

SEASONAL SOIL PROTECTION CHART:



A = KENTUCKY BLUEGRASS 40 LBS/ACRE; CREEPING RED FESCUE 40 LBS/ACRE; PLUS 2 TONS STRAW MULCH/ACRE, OR ADD ANNUAL RYEGRASS 20 LBS/ACRE.

B = KENTUCKY BLUEGRASS 60 LBS/ACRE; CREEPING RED FESCUE 60 LBS/ACRE; PLUS 2 TONS STRAW MULCH/ACRE, OR ADD ANNUAL RYEGRASS 30 LBS/ACRE.

C = SPRING OATS 3 BUSHEL/ACRE

D = WHEAT OR RYE 2 BUSHEL/ACRE

E = ANNUAL RYEGRASS 40 LBS/ACRE

F = SOD

G = STRAW MULCH 2 TONS/ACRE

/I/ IRRIGATION NEEDED DURING JUNE, JULY, AND/OR SEPTEMBER

** IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD

SEASONAL SOIL SEEDING PROTECTION CHART

FRITZ
ENGINEERING SERVICES
14020 MISSISSINEWA DRIVE
CARMEL, INDIANA 46033
P: 317.324.8695 F: 317.324.8717
www.Fritz-Eng.com

PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS AND ISSUES	DATE	BY

GENERAL NOTES / LEGEND:

"IT'S THE LAW"
811
Know what's below.
Call before you dig.
2 WORKING DAYS BEFORE YOU DIG.

PROJECT:
GREEN TOUCH MCCORDSVILLE

PROJECT LOCATION:
6312 RAILROAD ST
MCCORDSVILLE, INDIANA 46055
HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE:
NE 1/4, S26, T17N, R5E

CLIENT:
MacDOUGALL PIERCE CONSTRUCTION
12720 FORD DRIVE
FISHERS, IN 46038

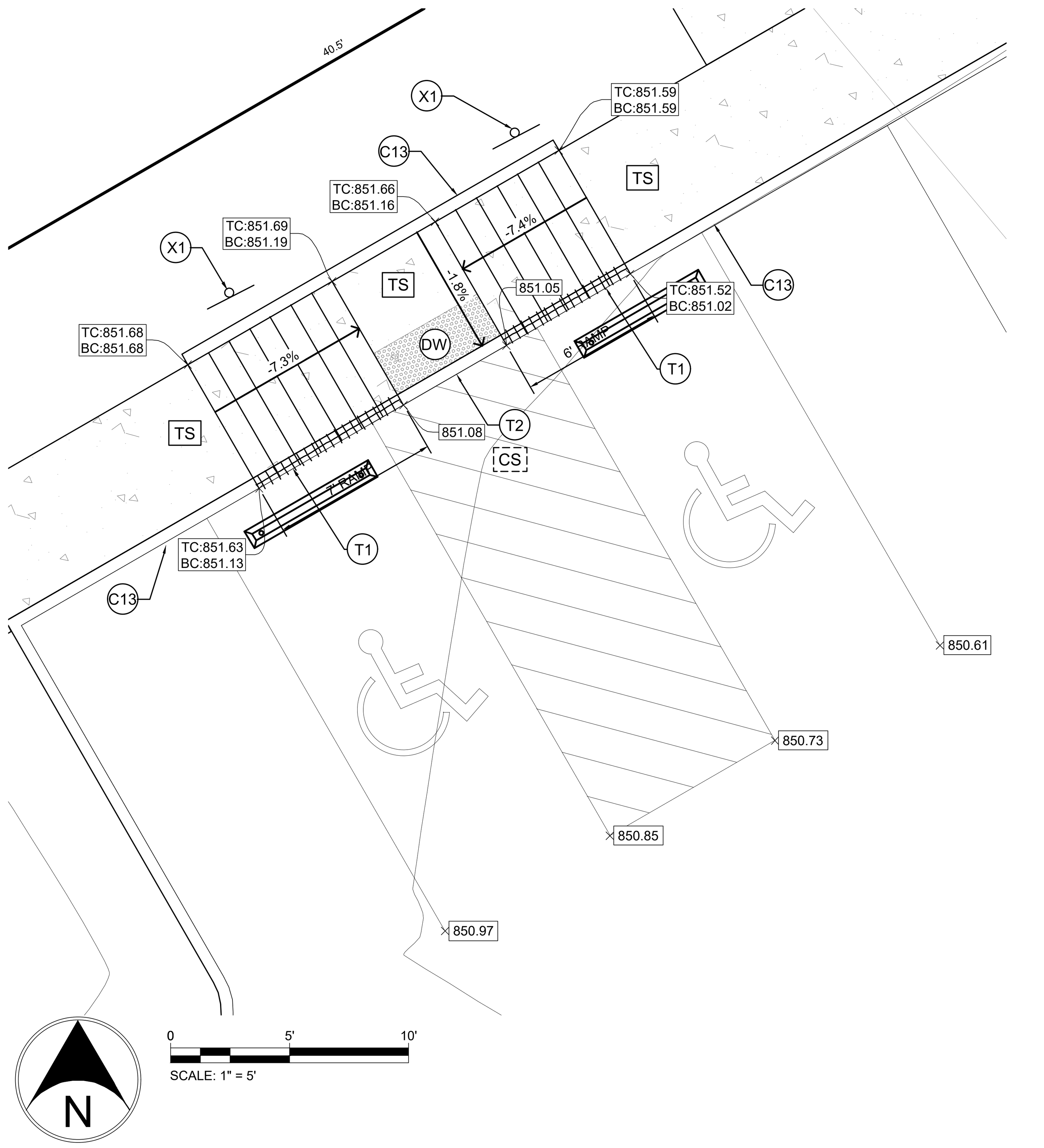
PLAN DATE: 3/8/2024

DESIGN:	CHECK:	DRAWN:
AF	AF	KG

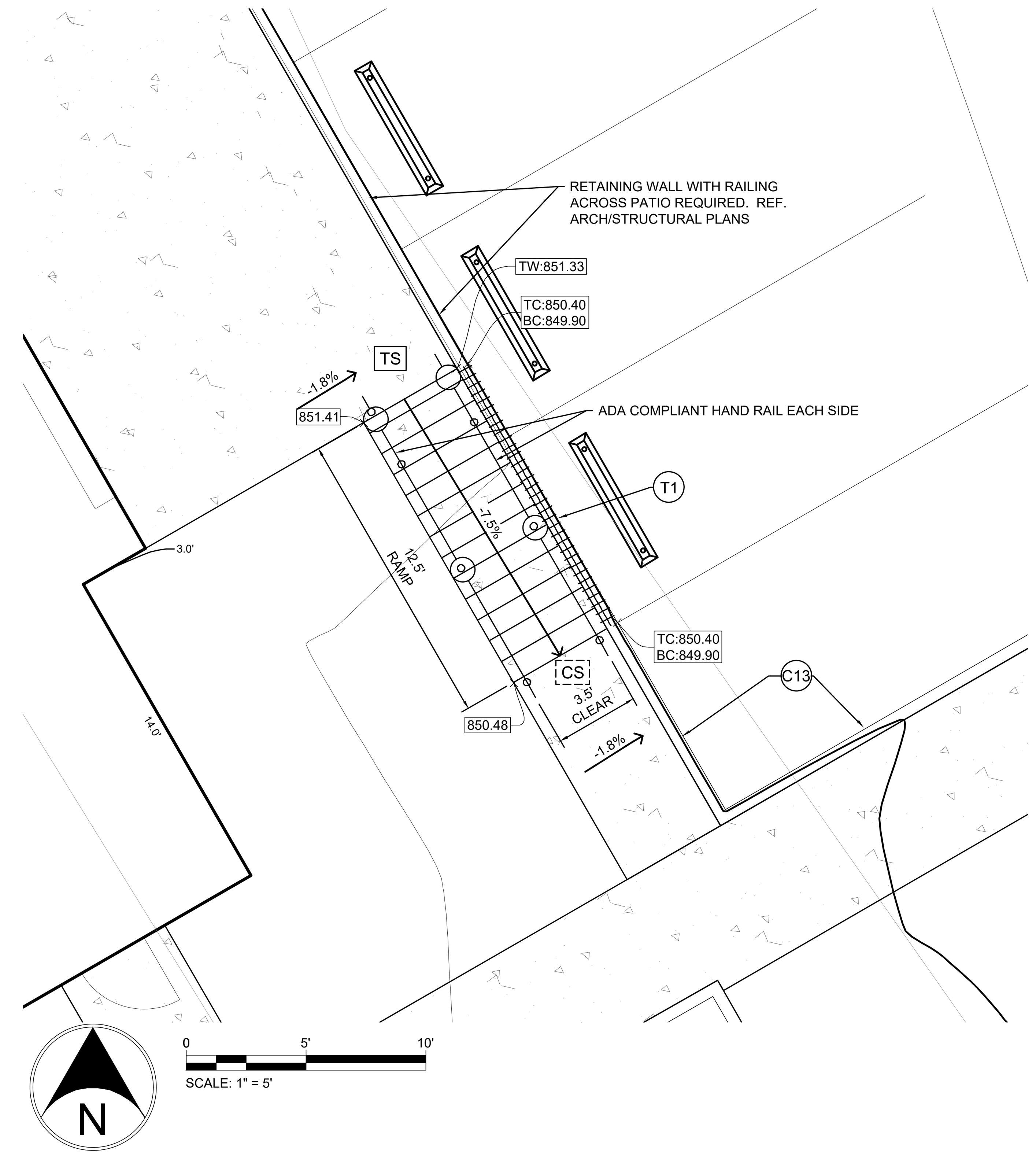
PROJECT NO. 2308005

SHEET NAME
EROSION CONTROL DETAILS

SHEET NO.
C506



CURB RAMP NO. 1 DIAGRAM



PATIO RAMP DIAGRAM

CURB RAMP & ADA LEGEND:

- # RAMP — ADA / CURB RAMP. "#" INDICATES RAMP LENGTH. SEE RAMP BLOWUP DIAGRAMS, INDOT DETAILS (STANDARD DRAWINGS), AND NOTES BELOW FOR SLOPE REQUIREMENTS.
- ## — "##" INDICATES THE CORRESPONDING INDOT RAMP STANDARD DRAWINGS - E 604-SWCR- ##
- DW — DETECTABLE WARNING SURFACE.
- TS — TURNING SPACE. SLOPE IN ANY DIRECTION SHALL NOT EXCEED 2.00%.
- CS — CLEAR SPACE. REFER TO INDOT STANDARD DRAWINGS.
- FS — FLARED SIDE. SEE INDOT STANDARD DRAWINGS. MAXIMUM 10.00% SLOPE.
- HANDICAP PARKING SPACE. SLOPE IN ANY DIRECTION FOR PARKING SPACE SHALL NOT EXCEED 2.00%. SEE DETAILS FOR PAVEMENT MARKINGS.
- VEHICLE PARKING STOP AS REQUIRED FOR SITE.
- X1 — HANDICAP PARKING SIGN AS REQUIRED.
- #.#% — GRADE SLOPE WITH SLOPE PERCENT.

SIDEWALK AND RAMP SLOPE REQUIREMENTS:

CROSS-SLOPE:

- DESIRABLE = 1.50%
- DESIGN = 1.50% TO 1.80%
- MAXIMUM ALLOWED = 2.00%

LONGITUDINAL / RAMP / RUNNING SLOPE:

- DESIRABLE = 7.50%
- DESIGN = 7.50% TO 8.00%
- MAXIMUM ALLOWED = 8.33%

ADA PARKING STALL AND ACCESSIBLE SPACE REQUIREMENTS:

- SLOPE IN ANY DIRECTION SHALL NOT EXCEED 2.00%

**RAMP AND ADA PARKING STALL DESIGN AND CONSTRUCTION SHALL MEET INDOT SPECIFICATIONS, PROWAG, AND ADA STANDARDS.

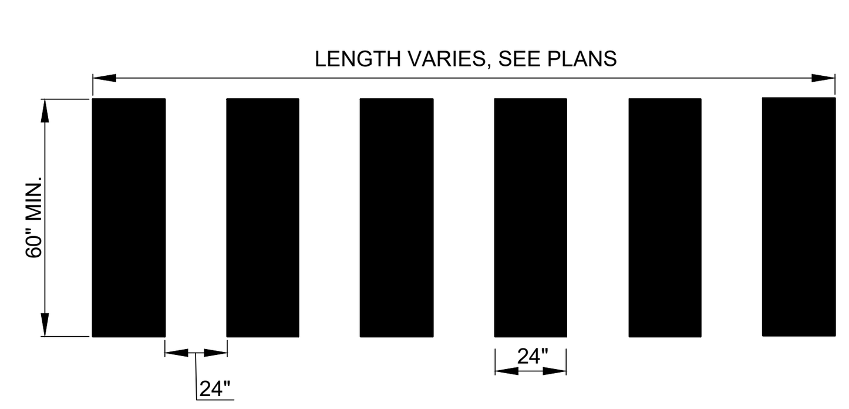
ADA RAMPS, CROSSWALKS AND PARKING STALLS SHALL MEET ADA STANDARDS AND PUBLIC RIGHT-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG). INDOT STANDARD DRAWINGS AND SPECIFICATIONS SHALL BE USED AS SUPPLEMENTAL DESIGN INFORMATION AND IN CONJUNCTION WITH THESE PLANS.

CURB RAMP & ADA KEYNOTES:

##	KEYNOTE
A	CONCRETE PAVEMENT (SEE SITE PLANS FOR TYPE).
C13	CONCRETE 6 INCH "STRAIGHT" CURB.
C15	CONCRETE CHAIRBACK CURB AND GUTTER.
C17	CONCRETE ROLL CURB
C19	DEPRESSED CURB AND GUTTER.
D	ASPHALT PAVEMENT (SEE SITE PLANS FOR TYPE).
C# RW	INDICATES CORRESPONDING CURB SHALL ADHERE TO THE CORRESPONDING MUNICIPALITY RIGHT-OF-WAY DETAIL AND STANDARDS FOR THAT CURB TYPE, AS APPLICABLE.
E	EXISTING SIDEWALK / CURB / PAVEMENT TO REMAIN.
F1	CONCRETE SIDEWALK.
F2	INTEGRAL (MONOLITHIC) CURB AND WALK.
F# RW	INDICATES CORRESPONDING SIDEWALK OR INTEGRAL CURB AND WALK SHALL ADHERE TO THE CORRESPONDING MUNICIPALITY RIGHT-OF-WAY DETAIL AND STANDARDS, IF APPLICABLE.
M	MATCH EXISTING "CURB AND SIDEWALK CONSTRUCTION SHALL MEET AND CONNECT INTO EXISTING CURB AND WALK AT EXISTING JOINTS. FIELD ADJUST AS NECESSARY FOR THIS WALK BLEND TRANSITION. CROSS-SLOPE REQUIREMENTS SHALL BE MAINTAINED. THE LONGITUDINAL / RUNNING SLOPE FOR THIS WALK BLEND TRANSITION SHALL EITHER MATCH THE EXISTING ROADWAY SLOPE AND / OR SHALL HAVE A MAXIMUM SLOPE OF 5.00%. IF THE WALK BLEND TRANSITION EXCEEDS TWO (2) JOINT PANELS OR 10 LINEAR FEET, CONTACT ENGINEER FOR GUIDANCE.
S37	ADA BLUE PAVEMENT STRIPING, TYP.
S38	CROSSWALK PAVEMENT STRIPING / MARKINGS. SEE DETAILS. CROSSWALK PAVEMENT MARKINGS TO MEET INDOT SPECIFICATIONS AND THE INDIANA MUTCD MANUAL.
T1	CURB TAPER.
T2	FLUSH CURB FOR CURB RAMP.

GRADING LEGEND:

- FLOW LINE, PAVEMENT
- FLOW LINE, SWALE / DITCH
- FLOW DIRECTIONAL ARROW
- GRADE BREAK LINE
- GRADING CONSTRUCTION LIMITS
- ### — EXISTING CONTOURS. "###" INDICATES ELEVATION.
- ### — PROPOSED CONTOURS. "###" INDICATES ELEVATION.
- XXX.XX — SPOT ELEVATIONS
- f:XXX.XX — FLOW LINE ELEVATION
- XXX.XX H.P. — HIGH POINT ELEVATION
- XXX.XX L.P. — LOW POINT ELEVATION
- TC:XXX.XX / BC:XXX.XX — TOP CURB ELEVATION / BOTTOM CURB ELEVATION
- TW:XXX.XX / BW:XXX.XX — TOP WALL ELEVATION / BOTTOM WALL ELEVATION
- XXX.XX RIM — CASTING RIM ELEVATION
- ME — MATCH EXISTING GRADE / ELEVATION

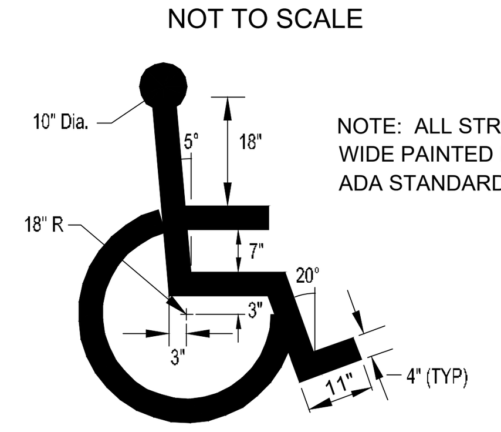


NOTES:
CROSS-WALK MARKINGS / STRIPING SHALL BE PERFORMED PLASTIC OR THERMOPLASTIC, COLOR WHITE.

FOR FURTHER INFORMATION REFER TO THE INDIANA MUTCD MANUAL AND INDOT STANDARD DRAWINGS AND SPECIFICATIONS. ALL PAVEMENT MARKINGS AND STRIPING SHALL MEET INDOT SPECIFICATIONS.

CROSSWALK PAVEMENT MARKINGS

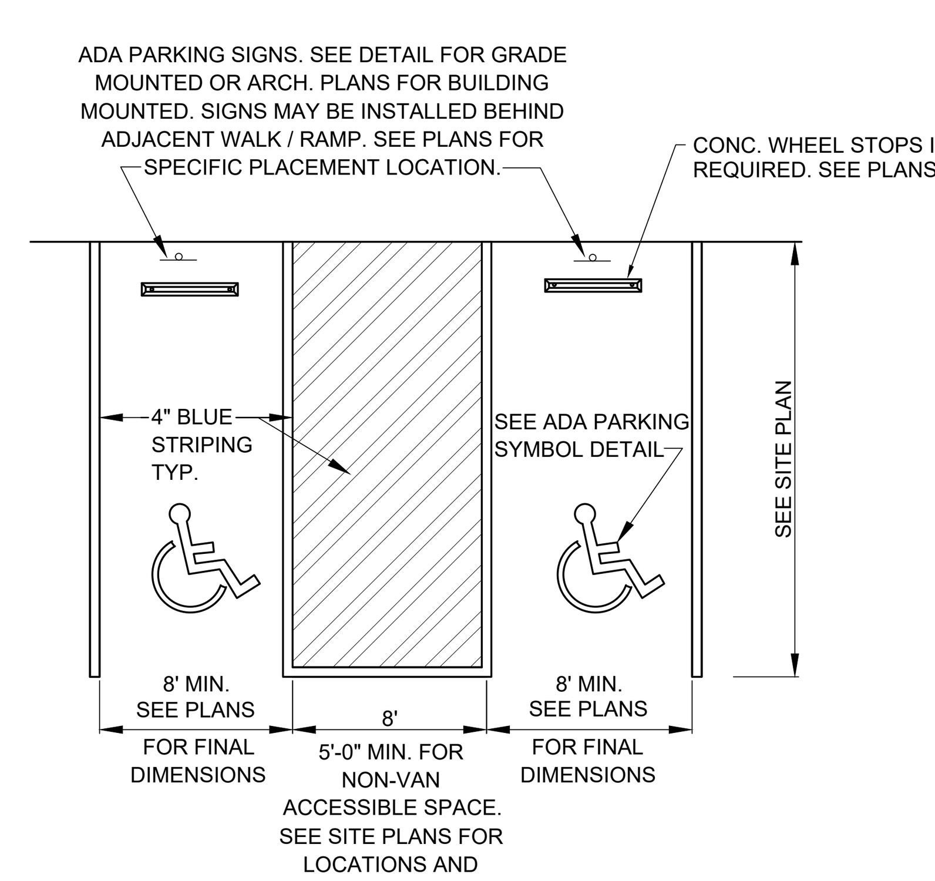
NOT TO SCALE



NOTE: ALL STRIPES TO BE 4 INCH WIDE PAINTED BLUE MEETING ADA STANDARDS

"ADA" PARKING SYMBOL DETAIL

NOT TO SCALE

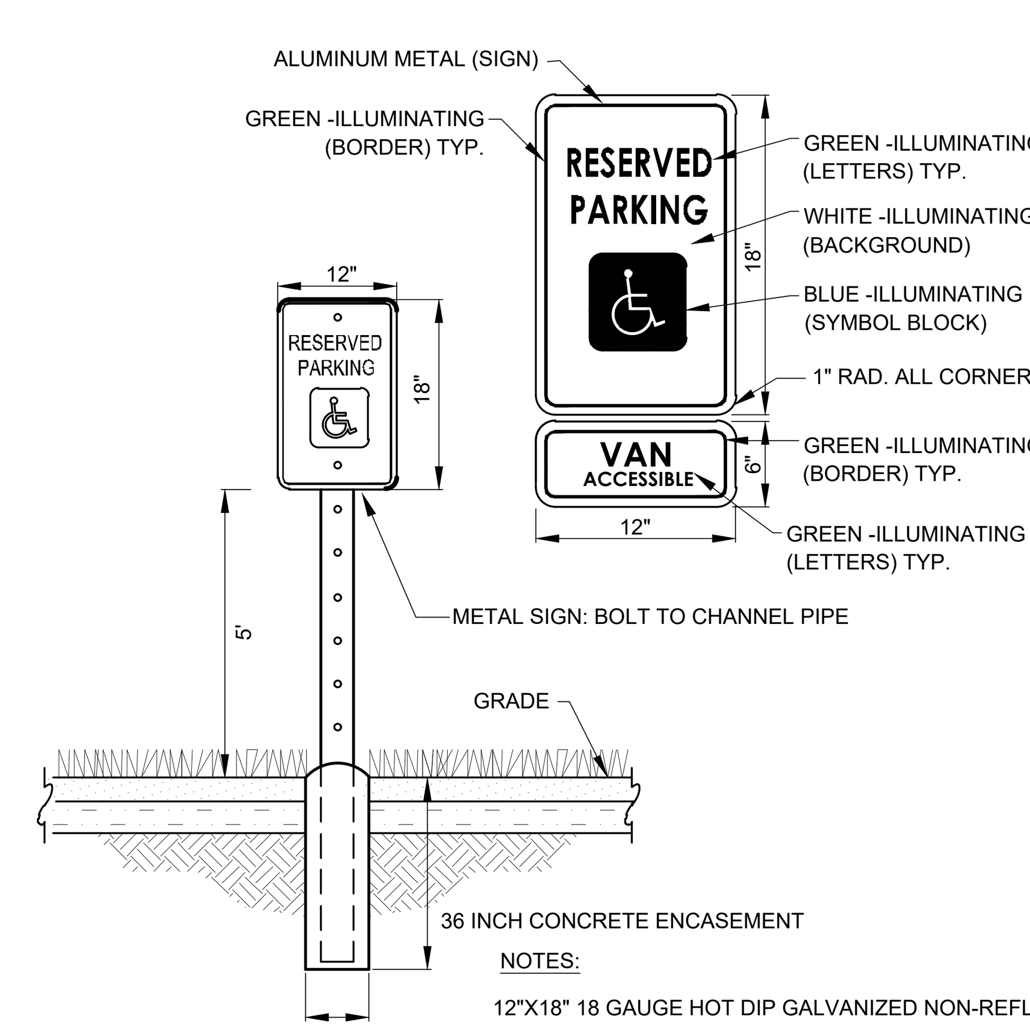


NOTES:

- ALL PAVEMENT MARKINGS AND STRIPING SHALL BE BLUE PAINT AND MEETING ADA STANDARDS AND SPECIFICATIONS.
- SLOPES IN ANY DIRECTION MAY NOT EXCEED 2.00%.

ADA PARKING STALLS DETAIL

NOT TO SCALE



NOTES:

12"X18" 18 GAUGE HOT DIP GALVANIZED NON-REFLECTIVE

"VAN ACCESSIBLE" SIGN ONLY NEEDED FOR VAN ACCESSIBLE SPACES

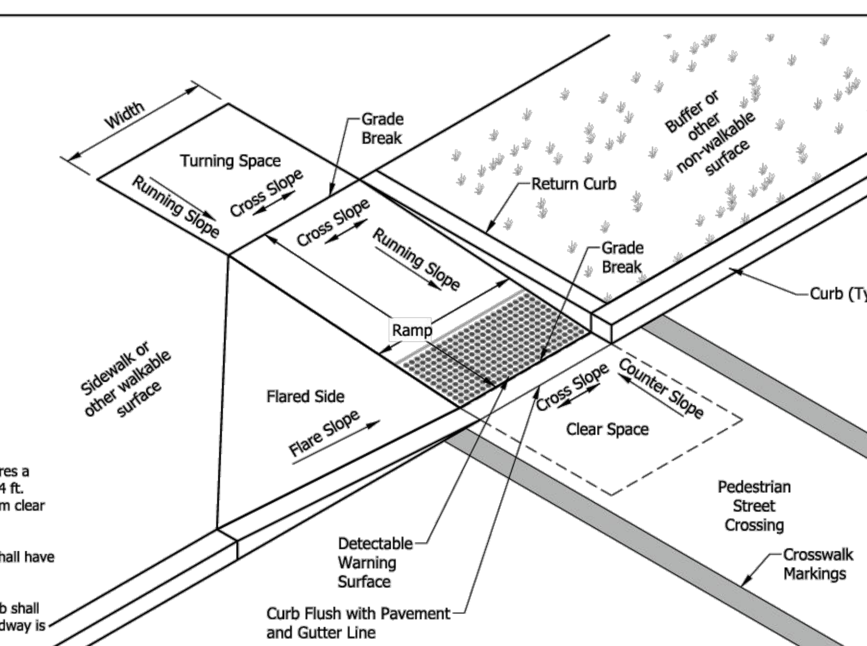
ADA PARKING SIGN DETAIL

NOT TO SCALE

INDEX	
SHEET NO.	SUBJECT
1	Curb Ramp Drawing Index and General Notes
2-3	Perpendicular Curb Ramp Typical Placement
4	Perpendicular Curb Ramp Component Details
5	One-Way-Directional Perpendicular Curb Ramp Typical Placement
6	One-Way-Directional Perpendicular Curb Ramp Component Details
7	Parallel Curb Ramps Typical Placement
8	Parallel Curb Ramp Component Details
9	Blended Transition Curb Ramp, Depressed Curb Ramp and Diagonal Curb Ramp Typical Placement
10	Blended Transition Curb Ramp Component Details
11	Median Cut-Through and Median Perpendicular Curb Ramp Typical Placement
12-13	Detectable Warning Surface Placement and Configuration
14	Detectable Warning Surface Details

GENERAL NOTES:

1. All slopes are absolute rather than relative to the sidewalk or roadway grade. Slopes at least 0.50% less than the maximum are preferred.
2. Ramp or Blended Transition. A ramp or blended transition shall be used to lower or raise the sidewalk to connect with the street or highway.
3. Turning Space. A turning space shall be provided at the top of a perpendicular ramp, bottom of a parallel ramp, or where the pedestrian travel requires a change in direction. A common turning space may be shared by adjacent ramps. The turning space shall have a minimum clear dimension of 4 ft x 4 ft. Where the turning space is constrained at the back of the sidewalk by a curb, retaining wall, building, or feature over 2 inches in height, the minimum clear dimension shall be 4 ft x 5 ft, with the 5-ft dimension in the direction of the ramp running slope.
4. Flared Side. A flared side shall be used adjacent to a walkable surface. A flared side may be used adjacent to a non-walkable surface. A flared side shall have a maximum slope of 10.00% measured parallel to the back of the curb.
5. Return Curb. A return curb is placed perpendicular to the roadway curb. A return curb may be used adjacent to a non-walkable surface. A return curb shall not be used adjacent to a walkable surface. The return curb may be omitted where the non-walkable surface is flared and the curb adjacent the roadway is tapered to meet the flush curb at the bottom of the ramp.
6. Clear Space. A clear space shall be provided beyond the bottom grade break of a curb ramp wholly contained within the crosswalk and wholly outside the parallel vehicular travel path. The clear space shall have a minimum clear dimension of 4 ft x 4 ft.
7. Detectable Warning Surface. A detectable warning surface shall consist of truncated domes and be placed at each street, highway, or railroad crossing. The detectable warning surface shall extend a minimum of 2 ft in the direction of pedestrian travel and be placed the entire width of a ramp, blended transition, or turning space.
8. Running Slope. The running slope of a ramp, blended transition, or turning space shall be measured parallel to the direction of pedestrian travel.
   a. A running slope of 2.00% or less is considered level.
   b. A ramp shall have a maximum running slope of 8.33% but shall not require a ramp length to exceed 15 ft.
   c. A blended transition shall have a maximum running slope of 5.00%.
   d. A turning space shall have a maximum running slope of 2.00%.
9. Width. Unless otherwise noted, minimum width of a ramp, blended transition, or turning space, excluding flared sides or return curb, shall be 4 ft.
10. Grade Break. A grade break at the top and bottom of a ramp, blended transition, or turning space shall be perpendicular to the running slope. Grade breaks shall not be within the ramp, blended transition, turning space, or detectable warning surface. Grade breaks shall be flush. Vertical discontinuities shall not be greater than 1/2 in. Where a discontinuity is greater than 1/4 in. the surface shall be beveled with a slope not steeper than 1V:2H.
11. Cross Slope Exceptions. The cross slope of a ramp, blended transition, or turning space shall be measured perpendicular to the direction of pedestrian travel.
   a. The maximum cross slope at a pedestrian street crossing without posted yield or stop control shall be 5.00%.
   b. The maximum cross slope at a pedestrian street crossing with posted yield or stop control shall be 2.00%.
   c. The maximum cross slope at a midblock crossing shall be the established grade of the adjacent roadway.
12. Counter Slope. A counter slope is the cross slope of the gutter or street adjacent the running slope of the ramp, blended transition, or turning space. See Standard Drawing E 604-SWCR-14 for counter slope details.
13. Objects such as a utility cover, vault frame, and grating shall be placed outside the curb ramp.
14. Curb ramps shall be placed within the marked crosswalk area.
15. Drainage inlets should be located uphill from a curb ramp to prevent ponding in the path of pedestrian travel.



TYPICAL CURB RAMP COMPONENTS

INDIANA DEPARTMENT OF TRANSPORTATION

CURB RAMP DRAWING INDEX AND GENERAL NOTES

SEPTEMBER 2018

STANDARD DRAWING NO. E 604-SWCR-01

/s/ Elizabeth W. Phillips 03/20/18 DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/25/18 CHIEF ENGINEER DATE

FRITZ ENGINEERING SERVICES
14020 MISSISSINEWA DRIVE
CARMEL, INDIANA 46033
P: 317.324.8695 F: 317.324.8717
www.Fritz-Eng.com

PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS AND ISSUES	DATE	BY

GENERAL NOTES / LEGEND:

"IT'S THE LAW"
811
Know what's below. Call before you dig.
2 WORKING DAYS BEFORE YOU DIG.

PROJECT:
GREEN TOUCH MCCORDSVILLE

PROJECT LOCATION:
6312 RAILROAD ST
MCCORDSVILLE, INDIANA 46055
HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE:
NE 1/4, S26, T17N, R5E

CLIENT:
MacDOUGALL PIERCE CONSTRUCTION
12720 FORD DRIVE
FISHERS, IN 46038

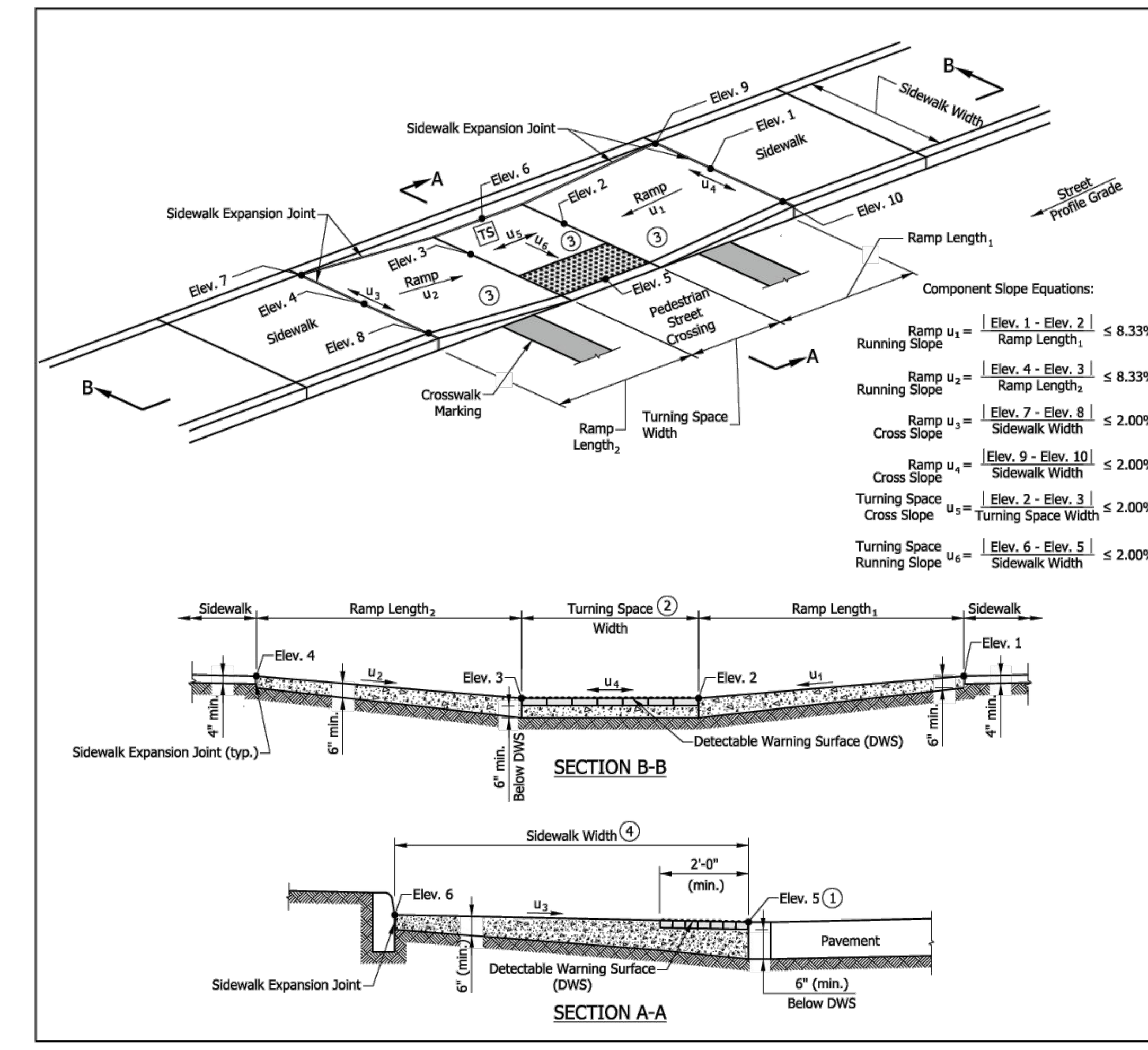
PLAN DATE: 3/8/2024

DESIGN: AF | CHECK: AF | DRAWN: KG

PROJECT NO. 2308005

SHEET NAME: CURB RAMP & ADA DIAGRAMS

SHEET NO. C601



NOTES:

(1) The bottom edge of the turning space and top of curb shall be flush with the edge of adjacent pavement and gutter line.

(2) The turning space shall have a minimum clear dimension of 4 ft x 4 ft and a running slope of 2.00% maximum. Where the turning space is constrained at the back of the sidewalk, the minimum clear dimension shall be 4 ft x 5 ft, with the 5-ft dimension in the direction of the ramp running slope.

(3) Curb ramp surface shall be coarse broomed transverse to the running slope.

(4) Where there is no buffer between the sidewalk and curb, the preferred minimum sidewalk width is 6 ft. Where a buffer is placed between the sidewalk and curb, the preferred minimum sidewalk width is 5 ft. See Standard Drawing Series E 604-SDWK for sidewalk details.

(5) See Standard Drawing E 604-SWCR-01 for cross slope exceptions.

6. See Standard Drawing E 604-SWCR-12, -13, and -14 for Detectable Warning Surface placement, configuration, and details.

7. See Standard Drawing E 604-CCSJ-01 for sidewalk expansion joint details.

LEGEND:

- Ramp
- Detectable Warning Surface
- TS Turning Space

INDIANA DEPARTMENT OF TRANSPORTATION

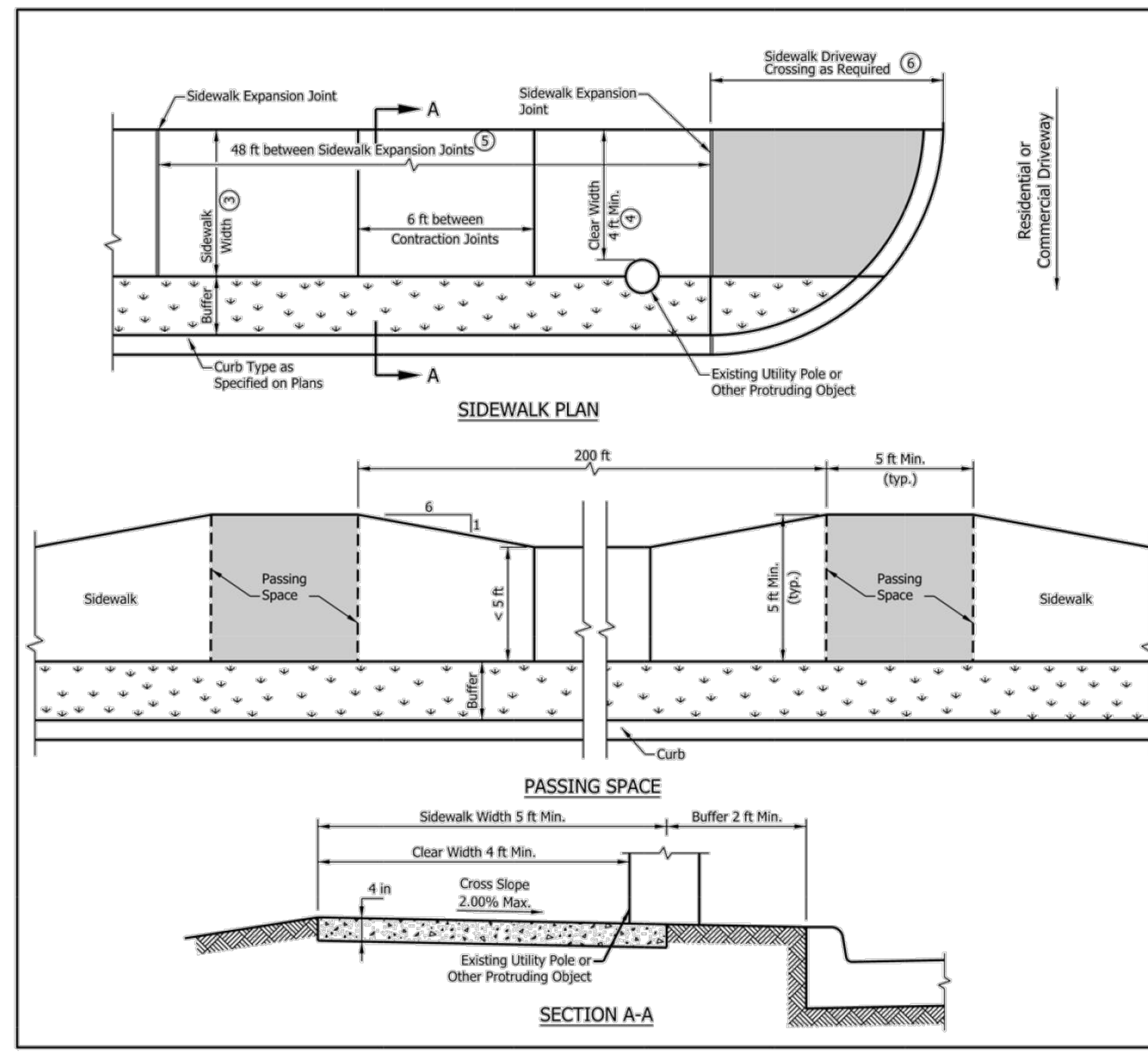
PARALLEL CURB RAMP COMPONENT DETAILS

SEPTEMBER 2018

STANDARD DRAWING NO. E 604-SWCR-08

ELIZABETH W. PHILLIPS REGISTERED No. 10200124 STATE OF INDIANA PROFESSIONAL ENGINEER

/s/ Elizabeth W. Phillips — DESIGN STANDARDS ENGINEER	03/29/18 — DATE
/s/ John Leckie — CHIEF ENGINEER	04/25/18 — DATE



NOTES:

1. All slopes are absolute rather than relative to the sidewalk or roadway grade. Slopes at least 0.50% less than the maximum are preferred.

2. The grade of the sidewalk is measured in the direction of pedestrian travel. The grade of the sidewalk shall not exceed the grade of the adjacent roadway. The cross slope is measured perpendicular to the direction of pedestrian travel. The cross slope of the sidewalk shall not exceed 2.00%.

(3) Where there is a buffer between the sidewalk and curb, the preferred minimum sidewalk clear width is 5 ft.

(4) A 4-ft minimum clear width shall be provided adjacent to street furniture, mailbox, utility pole, or other protruding object. Where the sidewalk clear width is less than 5 ft, a passing space shall be provided at 200 ft intervals. The passing space minimum clear dimension shall be 5 ft x 5 ft.

(5) See Standard Drawing E 604-CCSJ-01 for sidewalk expansion joint details.

(6) See Standard Drawing E 604-SDWK-03 for sidewalk driveway crossing configurations.

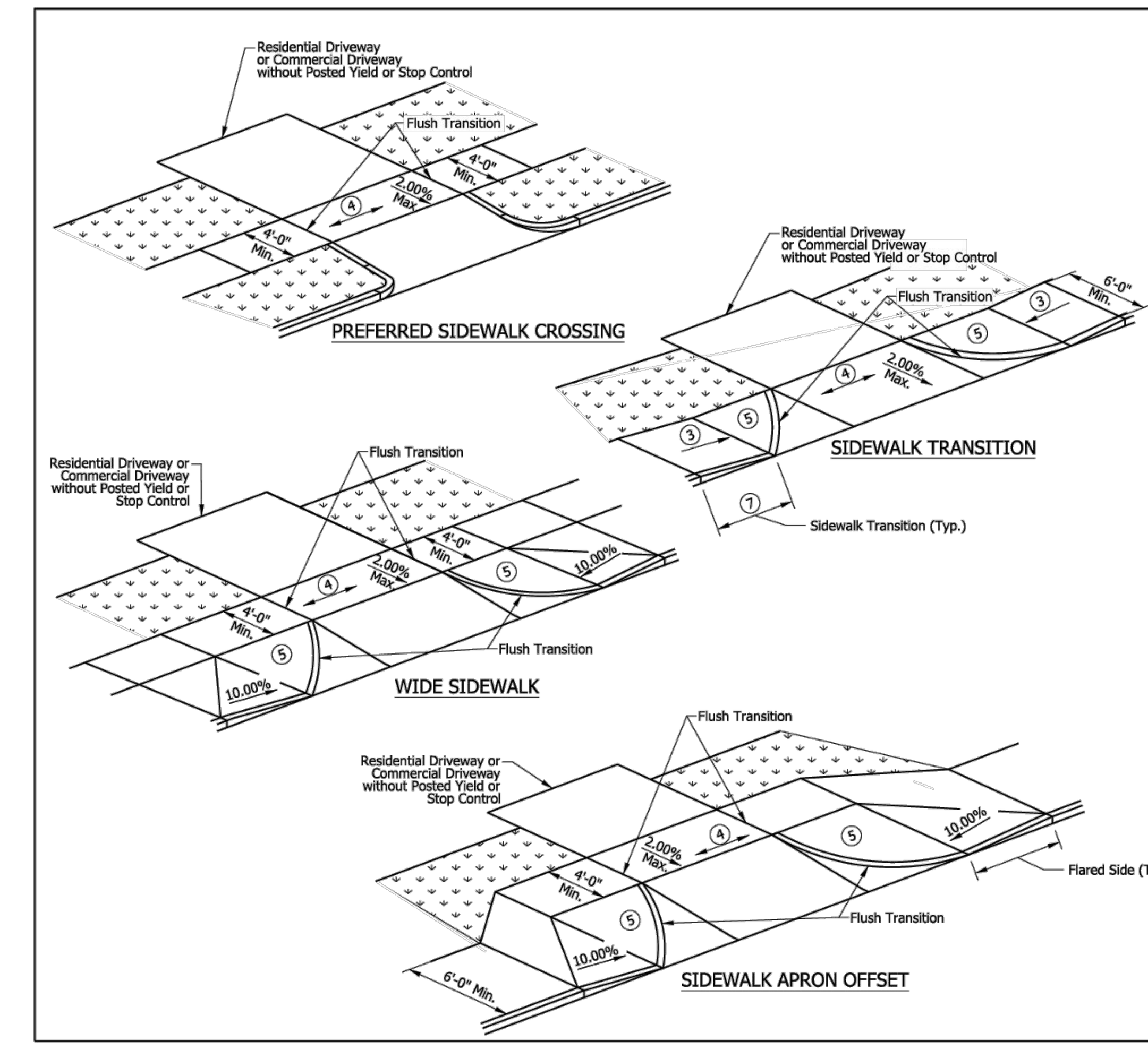
INDIANA DEPARTMENT OF TRANSPORTATION

SIDEWALK DETAILS
SIDEWALK WITH BUFFER

SEPTEMBER 2016

STANDARD DRAWING NO. E 604-SDWK-01

/s/ Elizabeth W. Phillips — DESIGN STANDARDS ENGINEER	03/16/16 — DATE
/s/ Mark A. Miller — CHIEF ENGINEER	03/18/16 — DATE



NOTES:

1. All slopes are absolute rather than relative to the sidewalk or roadway grade. Slopes at least 0.50% less than the maximum are preferred.

2. A sidewalk driveway crossing shall only be used on a sidewalk at a residential driveway or a commercial driveway without posted yield or stop control. A curb ramp shall be used at all other crossings. See Standard Drawing Series E 604-SWCR for curb ramp details.

(3) Where a sidewalk transition is used to lower or raise the sidewalk to connect with a residential driveway or commercial driveway without posted yield or stop control, the running slope of the transition shall be 8.33% maximum.

(4) The grade of the sidewalk across the driveway shall not exceed the grade of the adjacent roadway.

(5) The area between the driveway and a flared side or sidewalk transition shall match the driveway profile and transverse slope.

6. A turning space is not required at the top of a sidewalk transition.

(7) Objects such as a utility cover, vault frame, and grating shall be placed outside a sidewalk transition.

8. A detectable warning surface shall not be placed at the crossings of a residential driveway. A detectable warning surface may be placed at the crossing of a commercial driveway without yield or stop control.

9. See Standard Drawing E 604-SDWK-01 and -02 for Sidewalk Details.

10. See Standard Drawing Series E 610-DRIV for drives.

INDIANA DEPARTMENT OF TRANSPORTATION

SIDEWALK DRIVEWAY CROSSING

SEPTEMBER 2016

STANDARD DRAWING NO. E 604-SDWK-03

/s/ Elizabeth W. Phillips — DESIGN STANDARDS ENGINEER	03/16/16 — DATE
/s/ Mark A. Miller — CHIEF ENGINEER	03/18/16 — DATE

FRITZ ENGINEERING SERVICES
14020 MISSISSINEWA DRIVE
CARMEL, INDIANA 46033
P: 317.324.8695 F: 317.324.8717
www.Fritz-Eng.com

PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS AND ISSUES	DATE	BY
—	—	—

GENERAL NOTES / LEGEND:

"IT'S THE LAW"
811
Know what's below. Call before you dig.
2 WORKING DAYS BEFORE YOU DIG.

PROJECT:
GREEN TOUCH MCCORDSVILLE
Green Touch Services

PROJECT LOCATION:
6312 RAILROAD ST
MCCORDSVILLE, INDIANA 46055
HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE:
NE $\frac{1}{4}$, S26, T17N, R5E

CLIENT:
MacDOUGALL PIERCE CONSTRUCTION
12720 FORD DRIVE
FISHERS, IN 46038

PLAN DATE: 3/8/2024

DESIGN:	CHECK:	DRAWN:
AF	AF	KG

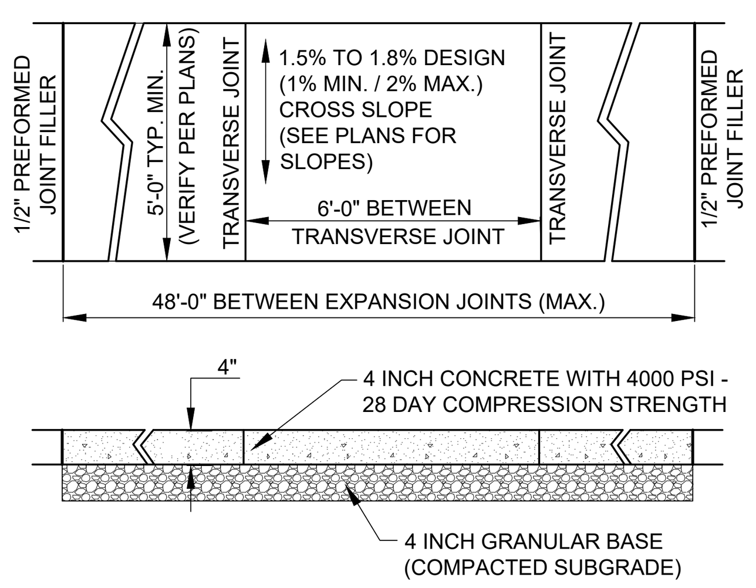
PROJECT NO. 2308005

SHEET NAME
INDOT CURB RAMP DETAILS

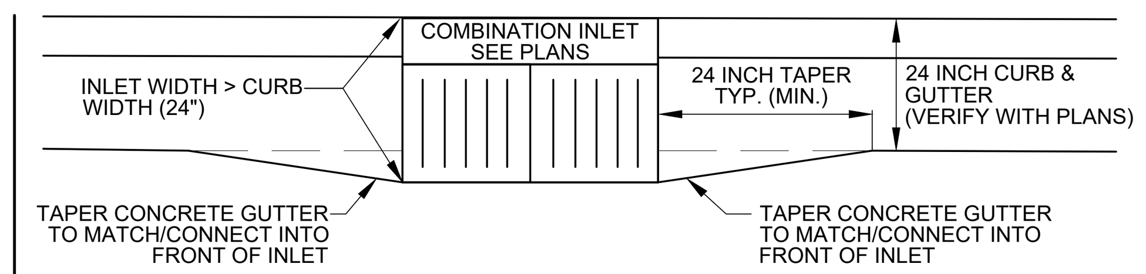
SHEET NO.
C602

CURB & WALK NOTES:

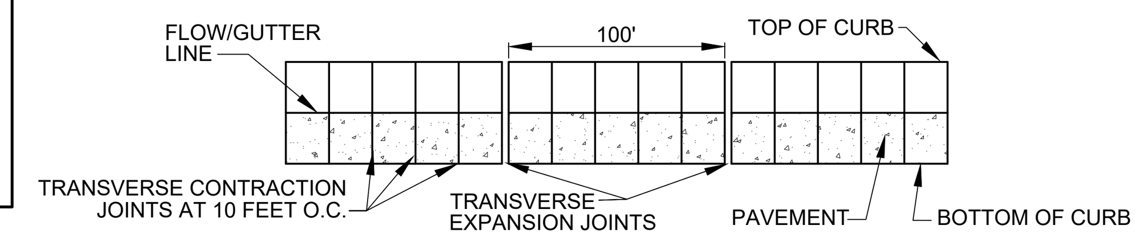
1. VERIFY DIMENSIONS AND WIDTHS OF WALKS AND CURBS WITH PLANS.
2. TRANSVERSE JOINTS SHALL BE CUT WITH A JOINTER HAVING A RADIUS OF 1/4" @ 10' MAX. SPACING AS INDICATED OR DIRECTED.
3. THE SPACE BEHIND THE CURB SHALL BE FILLED WITH SUITABLE MATERIAL TO THE REQUIRED ELEVATION AND COMPACTED IN LAYERS NOT TO EXCEED 4 INCHES.
4. WHEN BUILT IN CONJUNCTION WITH CONCRETE PAVEMENT, EXPANSION AND CONTRACTION JOINTS SHOULD BE PLACED AT THE SAME LOCATIONS IN THE PAVEMENT SLAB. THE CURB AND GUTTER SHOULD BE TIED TO THE PAVEMENT BY 1/2" ROUND DEFORMED BARS AT ABOUT 3' INTERVALS NOT TO EXCEED 100'. CONTRACTION JOINTS SHOULD BE INSTALLED AT 10' SPACING.
5. WHEN CURB ABUTS CONCRETE DRAINAGE STRUCTURES, EXPANSION JOINT MATERIAL IS REQUIRED.
6. COMPACTED SUBGRADES AND CONCRETE FOR CURBS AND WALKS WHEN LOCATED WITHIN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO THE GOVERNING LOCAL CITY / MUNICIPALITY STANDARDS, DETAILS, AND SPECIFICATIONS FOR THAT CORRESPONDING ITEM.
7. FOR ALL SITE RELATED CURB AND WALKS (AS LOCATED OUTSIDE THE RIGHT-OF-WAY), COMPACTED SUBGRADES, CONCRETE MATERIAL, AND CONSTRUCTION PROCEDURES SHALL CONFORM AND MEET INDOT STANDARDS AND SPECIFICATIONS FOR THAT CORRESPONDING ITEM UNLESS NOTED OTHERWISE.



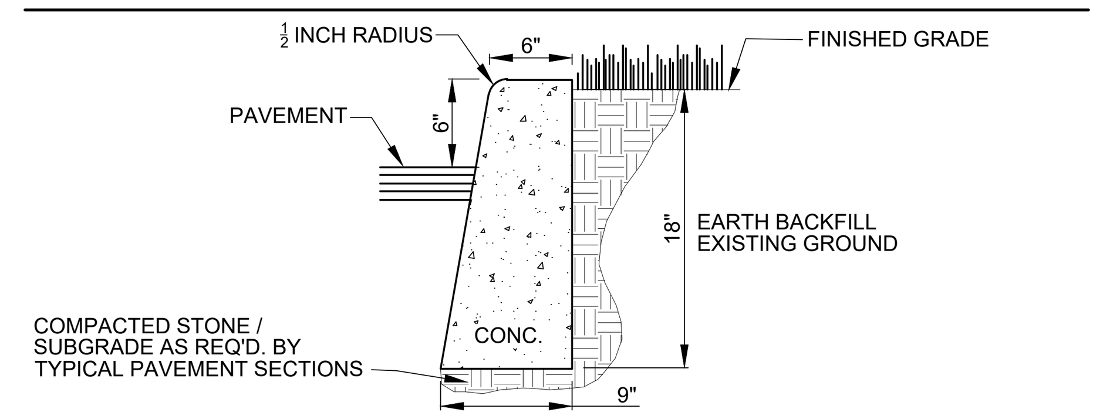
CONCRETE SIDEWALK DETAIL
NOT TO SCALE



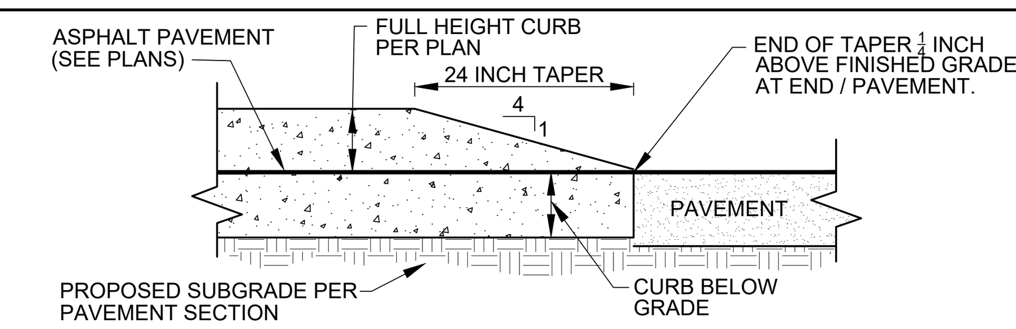
INLET CONCRETE GUTTER TRANSITION
NOT TO SCALE



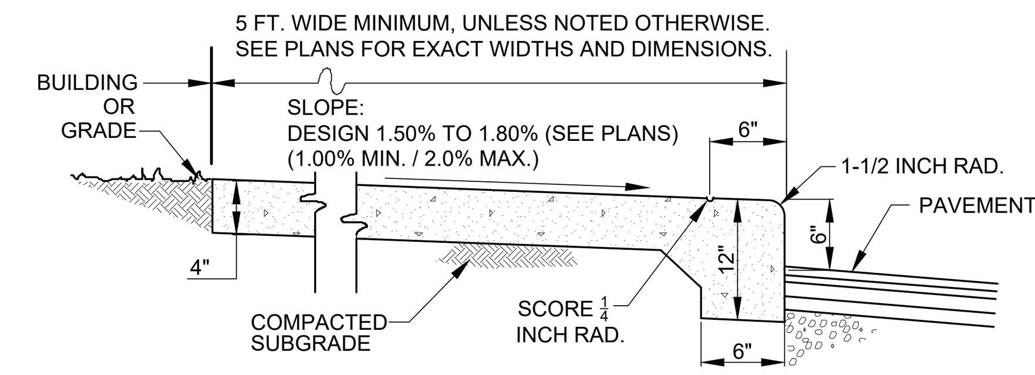
CURB JOINT DETAIL
NOT TO SCALE



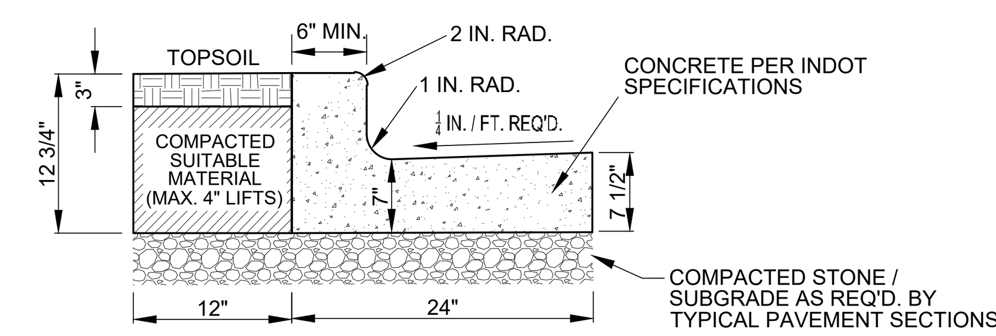
6 INCH BY 18 INCH MONOLITHIC / STRAIGHT CURB DETAIL
NOT TO SCALE



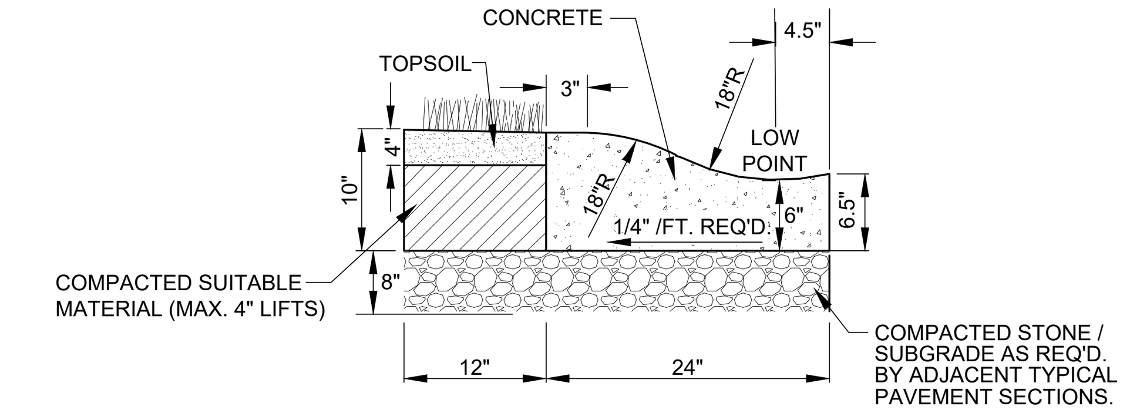
CONCRETE CURB TAPER DETAIL
NOT TO SCALE



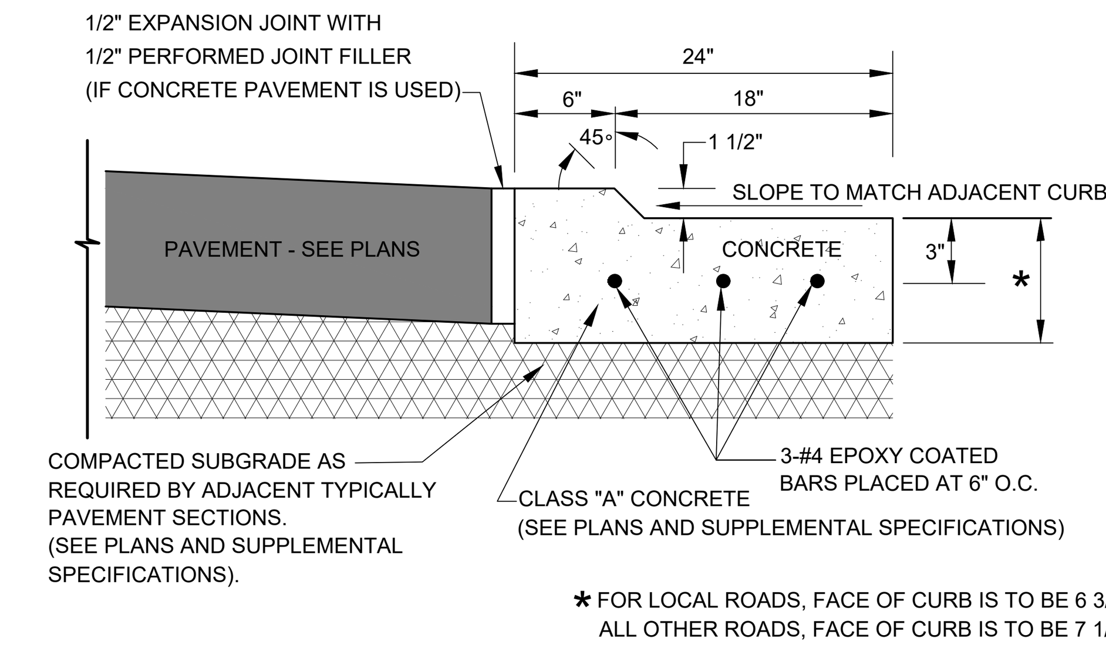
CONCRETE CURB AND WALK DETAIL
NOT TO SCALE



CONCRETE CURB AND GUTTER DETAIL
NOT TO SCALE

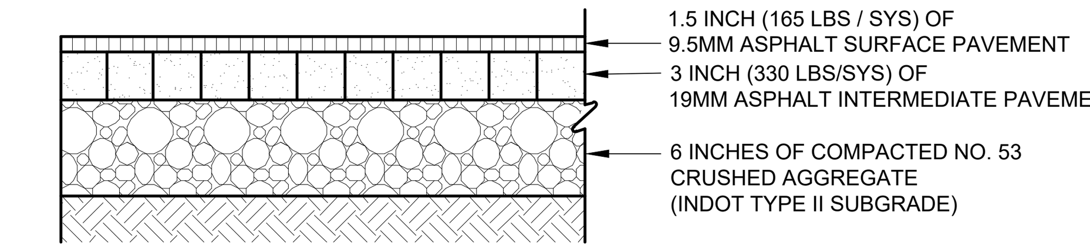


ROLL CURB DETAIL
NOT TO SCALE

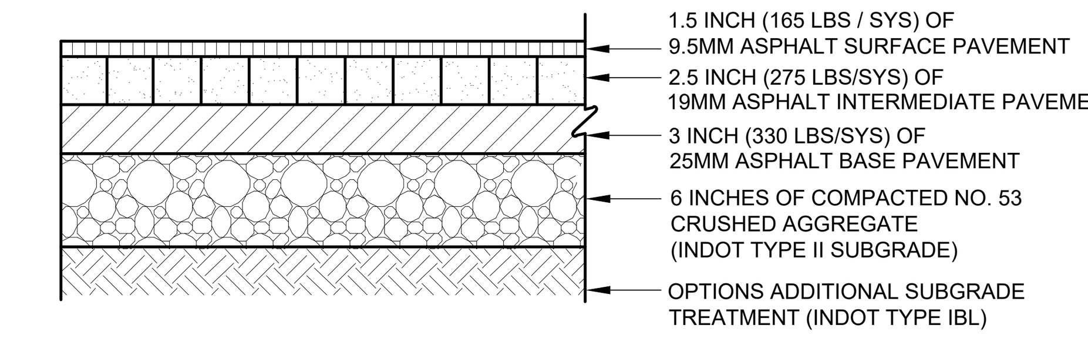


★ FOR LOCAL ROADS, FACE OF CURB IS TO BE 6 3/4"
ALL OTHER ROADS, FACE OF CURB IS TO BE 7 1/2"

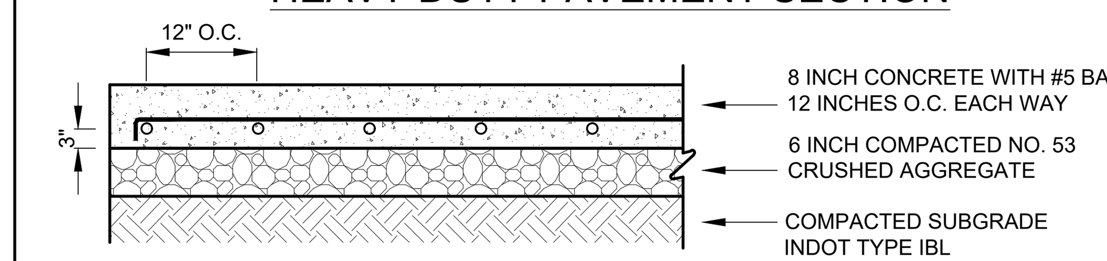
CONCRETE DEPRESSED CURB AND GUTTER
NOT TO SCALE



LIGHT DUTY PAVEMENT SECTION



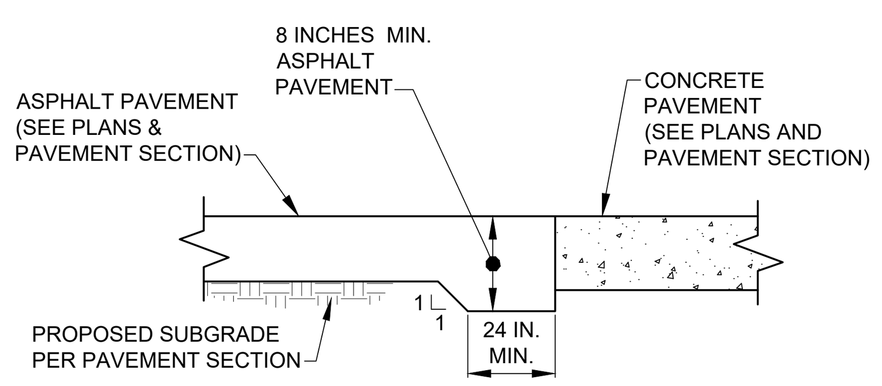
HEAVY DUTY PAVEMENT SECTION



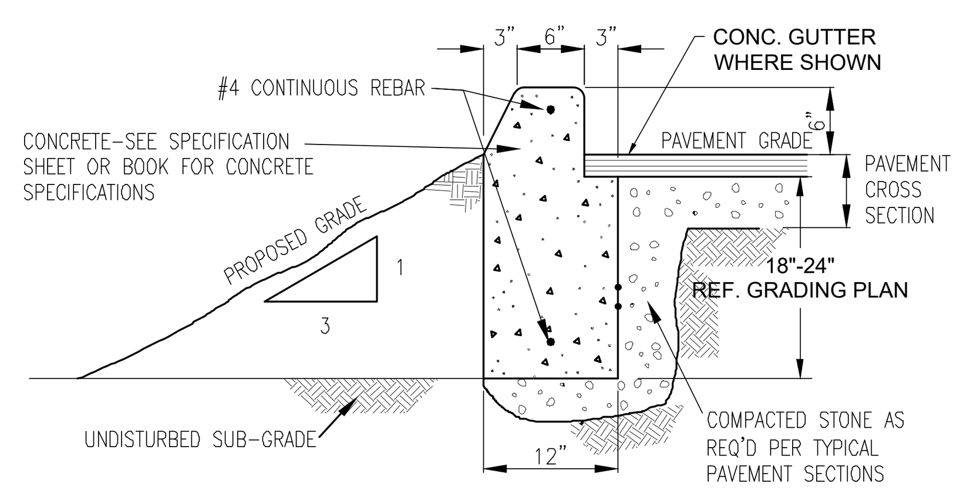
CONCRETE PAVEMENT SECTION

NOTES:
1. PAVEMENT, AGGREGATE AND SUBGRADE MATERIALS PER INDOT STANDARD SPECIFICATIONS.
2. SUBGRADE SHALL BE PREPARED PER INDOT STANDARD SPECIFICATIONS.
3. ADD TACK COAT BETWEEN ASPHALT LIFTS.
4. CONTRACTOR SHALL COORDINATE AND VERIFY PAVEMENT SECTIONS SHOWN WITH OWNER'S GEOTECHNICAL CONSULTANT.
5. FOR PAVEMENT SECTIONS LOCATED WITHIN THE PUBLIC RIGHT-OF-WAY, REFER TO GOVERNING CITY / MUNICIPALITY DETAILS AND SPECIFICATIONS.

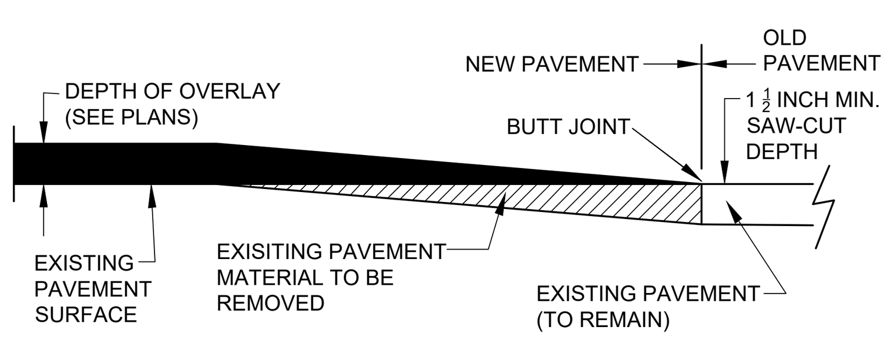
TYPICAL PAVEMENT SECTIONS DETAILS
(NOT LOCATED WITHIN PUBLIC RIGHT-OF-WAY)
NOT TO SCALE



THICKENED EDGE ASPHALT / CONCRETE PAVEMENT JOINT DETAIL
NOT TO SCALE

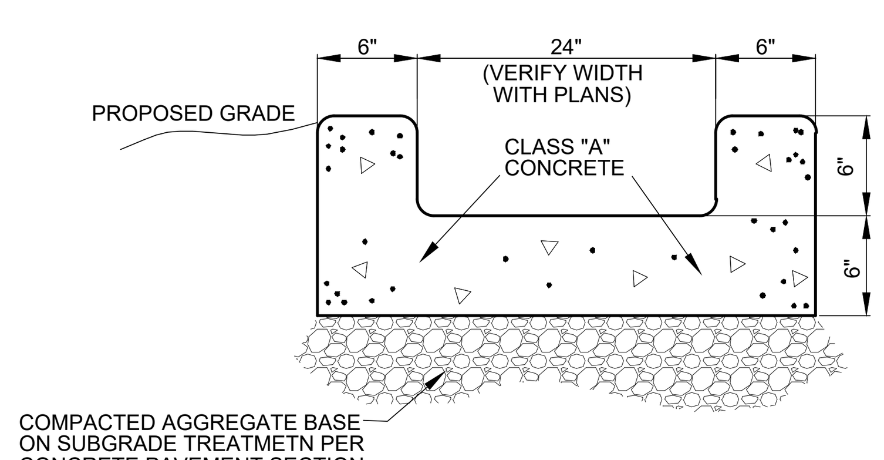


CURB AT TOP OF SLOPE
NOT TO SCALE

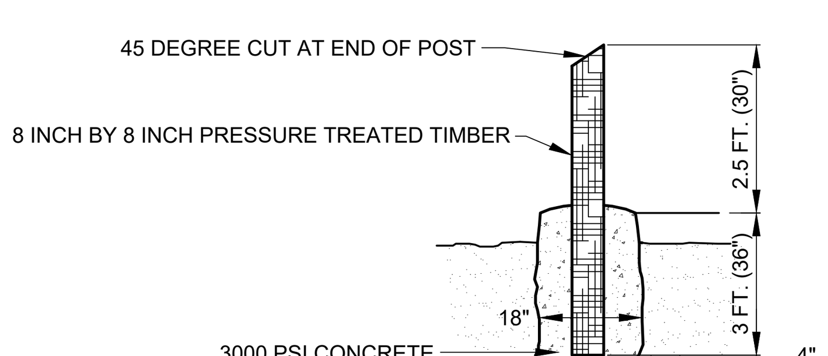


NOTE: TO BE MILLED AT EACH END OF PAVEMENT OVERLAY. SEE PLANS FOR MILL AND OVERLAY LIMITS AND PAVEMENT TYPES AND SECTIONS.

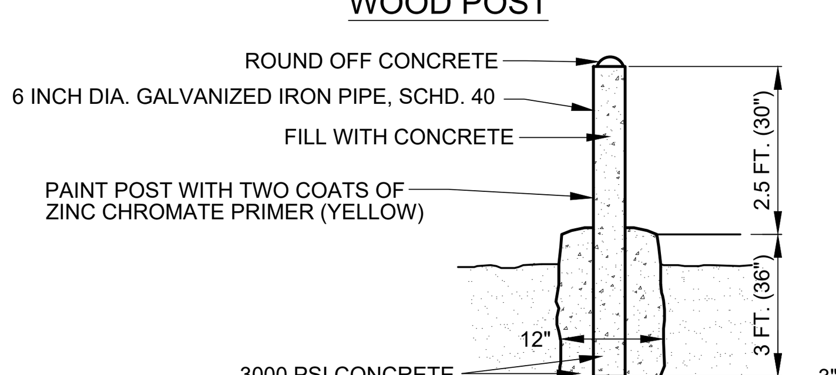
CROSS-SECTION OF ASPHALT PAVEMENT BUTT JOINT DETAIL
NOT TO SCALE



SECTION A-A

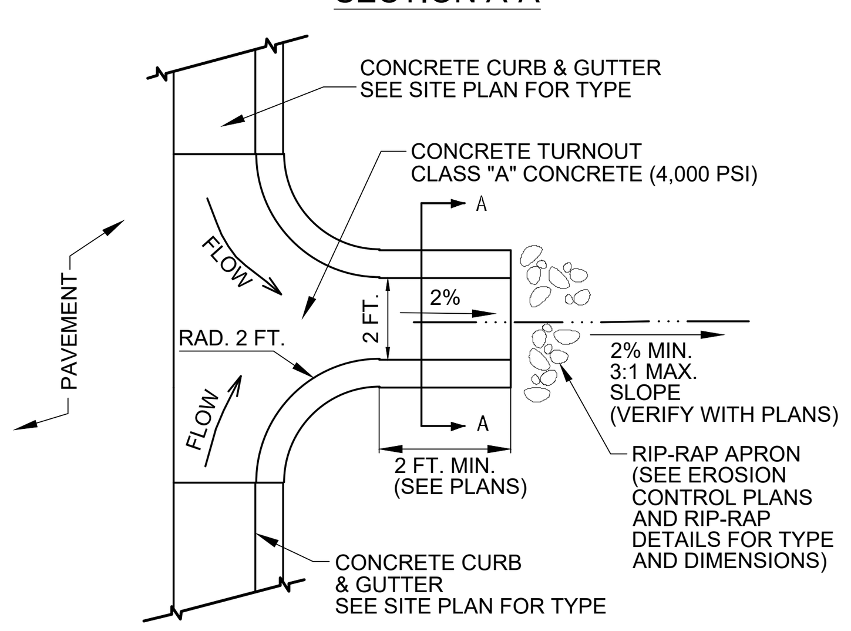


WOOD POST



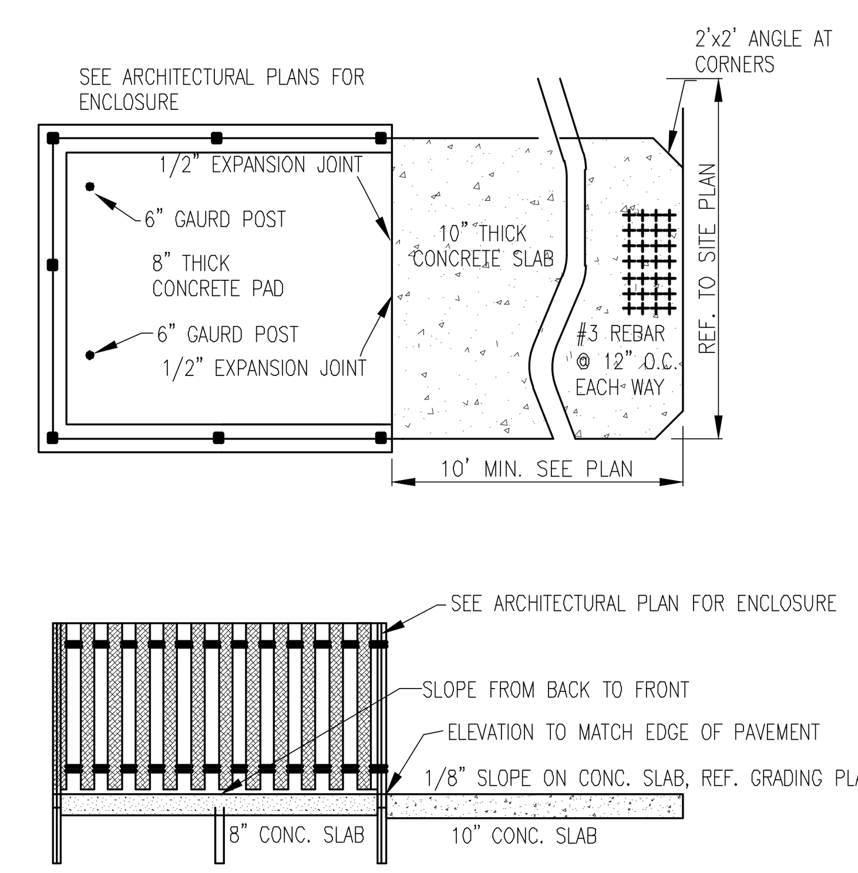
CONCRETE BOLLARD

TYPICAL BOLLARD / GUARD POST DETAIL
NOT TO SCALE



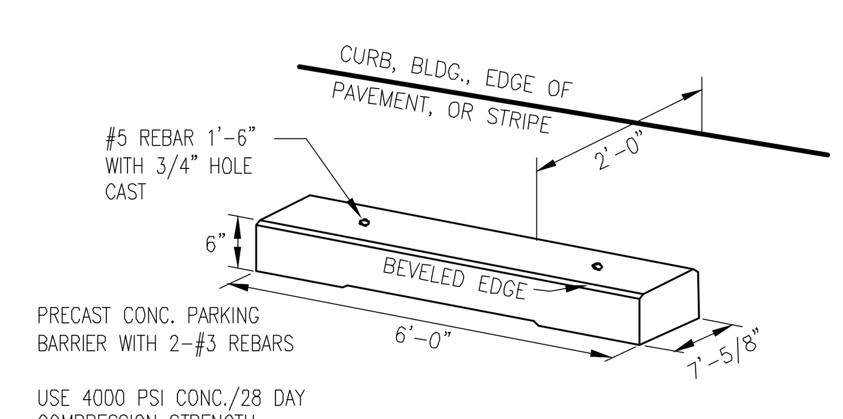
NOTES:
1. CONCRETE, AGGREGATE BASE AND SUBGRADE MATERIALS AND CONSTRUCTION PROCEDURES TO MEET INDOT SPECIFICATIONS.

CONCRETE CURB TURNOUT CHUTE DETAIL
NOT TO SCALE

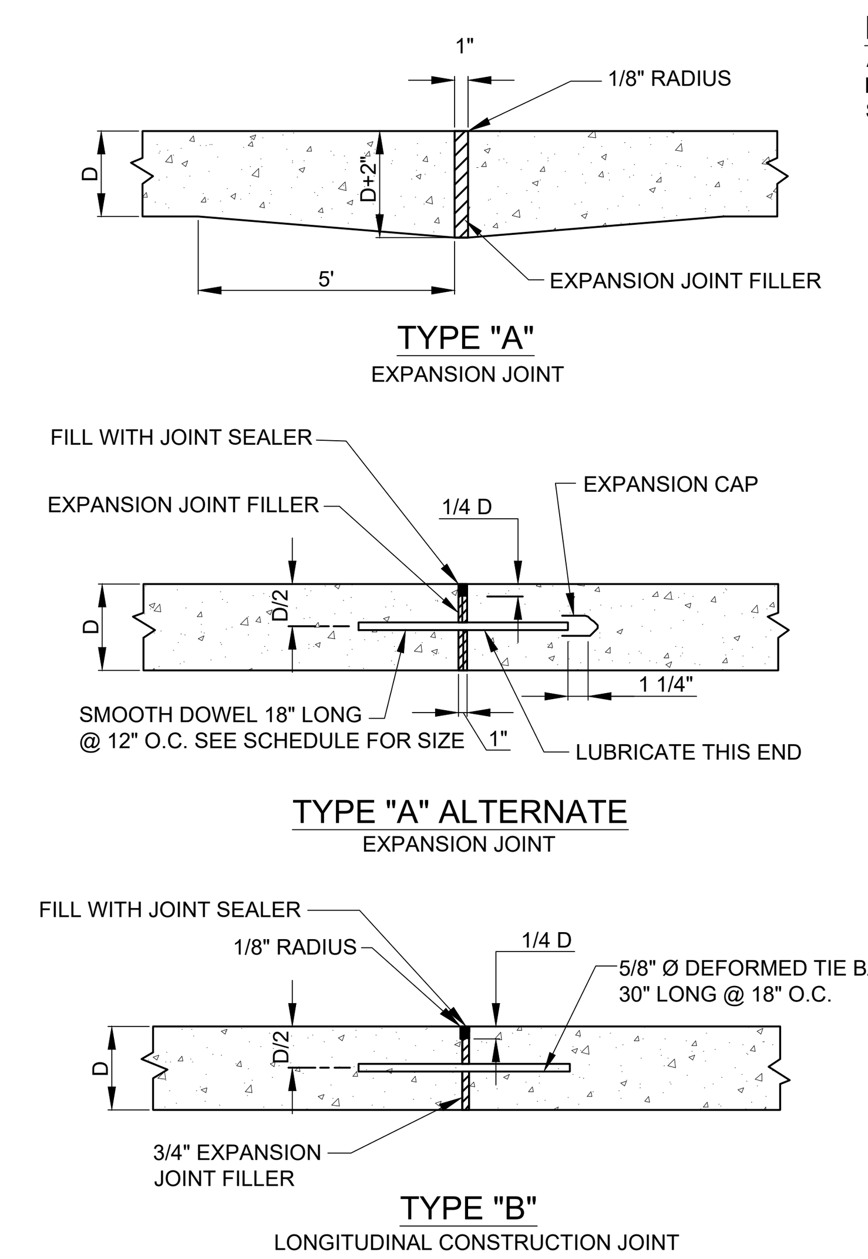


NOTE:
REFER TO PAVEMENT SPECIFICATIONS FOR CONCRETE REQUIREMENTS

TRASH PAD (TYP)
NOT TO SCALE



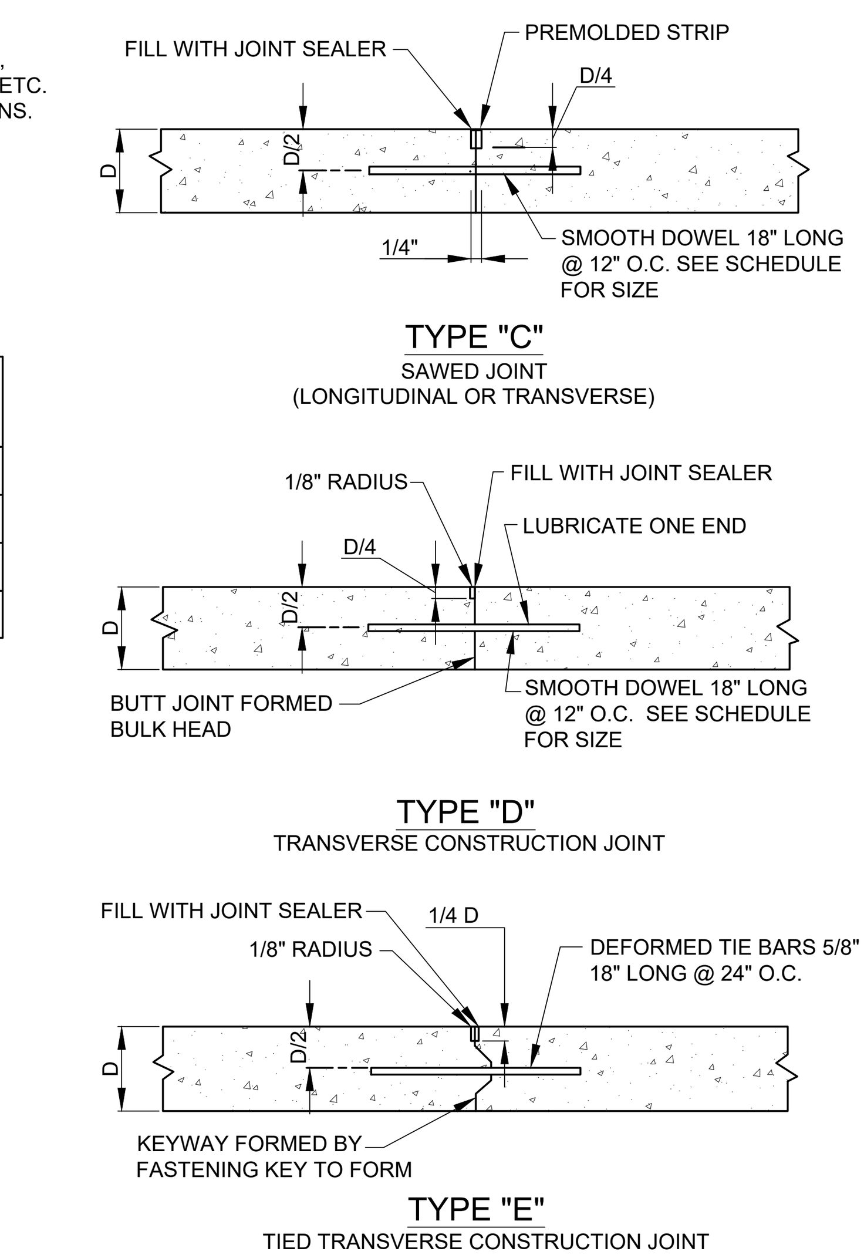
PRECAST CONCRETE PARKING BARRIER
NOT TO SCALE



NOTES:
ALL MATERIAL, SPECIFICATIONS, STANDARDS, PROCESSES, CONSTRUCTION PROCEDURES, ETC. SHALL MEET INDOT STANDARD SPECIFICATIONS.

DOWEL SCHEDULE

PAVEMENT THICKNESS "D" (INCHES)	SMOOTH DOWEL SIZE (DIAMETER IN INCHES)
6"	3/4" Ø
7"	7/8" Ø
8"	1" Ø
9"	1-1/8" Ø



CONCRETE JOINT DETAILS
NOT TO SCALE

FRITZ ENGINEERING SERVICES
14020 MISSISSINEWA DRIVE
CARMEL, INDIANA 46033
P: 317.324.8695 F: 317.324.8717
www.Fritz-Eng.com

PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS AND ISSUES	DATE	BY

GENERAL NOTES / LEGEND:

"IT'S THE LAW"
811
Know what's below.
Call before you dig.
2 WORKING DAYS BEFORE YOU DIG.

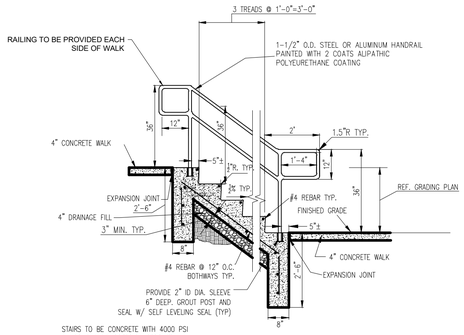
PROJECT:
GREEN TOUCH MCCORDSVILLE
Green Touch Services

PROJECT LOCATION:
6312 RAILROAD ST
MCCORDSVILLE, INDIANA 46055
HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE:
NE 1/4, S26, T17N, R5E

CLIENT:
MacDOUGALL PIERCE CONSTRUCTION
12720 FORD DRIVE
FISHERS, IN 46038

PLAN DATE: 3/8/2024
DESIGN: AF | CHECK: AF | DRAWN: KG
PROJECT NO. 2308005
SHEET NAME: SITE DETAILS
SHEET NO. C801

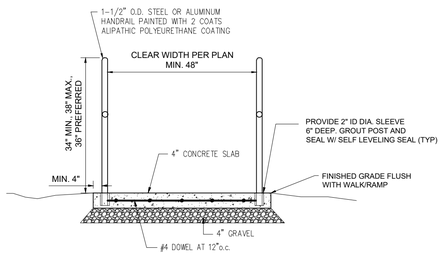


CONCRETE STAIRS DETAIL

NOT TO SCALE

NOTE:

- HANDRAILS SHALL BE PROVIDED ALONG BOTH SIDES OF STAIR SEGMENTS. THE INSIDE HANDRAIL ON SWITCHBACK OR DOGLEG RAMPS SHALL ALWAYS BE CONTINUOUS.
- IF HANDRAILS ARE NOT CONTINUOUS, THEY SHALL EXTEND AT LEAST 12 IN (305 MM) BEYOND THE TOP AND BOTTOM OF THE STEP SEGMENT AND SHALL BE PARALLEL WITH THE FLOOR OR GROUND SURFACE.
- THE CLEAR SPACE BETWEEN THE HANDRAIL AND THE WALL SHALL BE 1 - 1/2 IN (38 MM).
- GRIPPING SURFACES SHALL BE CONTINUOUS.
- TOP OF HANDRAIL GRIPPING SURFACES SHALL BE MOUNTED BETWEEN 34 IN AND 38 IN (865 MM AND 965 MM) ABOVE STAIR SURFACES.
- ENDS OF HANDRAILS SHALL BE EITHER ROUNDED OR RETURNED SMOOTHLY TO FLOOR, WALL, OR POST.
- HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.



TOP/BOTTOM OF STEPS SECTION DETAIL

NOT TO SCALE

GENERAL FOUNDATION NOTES

1. SOIL BEARING CAPACITY AS PER CBC 2016:
   TYPE OF FOOTING ---- SHALLOW, SPREAD FOOTING SYSTEM.
   MIMIMUM EMBEDMENT : 24" BELOW LOWEST ADJACENT NATURAL GROUND OR COMPACTED FILL.
   DESIGN SOIL PRESSURE:
   CONTINUOUS FTG. : 1500 PSF
   ISOLATED FTG. : 1500 PSF
2. FOR ALL DIMENSIONS, CURBS, SLAB DEPRESSIONS, STOP, FLOOR DRAINS, SINKS, TRENCHES, UNDERFLOOR DUCTS AND CONDUITS. SEE ARCHITECTURAL, MECHANICAL, REFRIGERATION, AIR CONDITIONING, PLUMBING & ELECTRICAL DRAWINGS, TRENCH BACKFILL AS PER SOIL REPORT REQUIREMENTS.
3. BOTTOM OF A COLUMN FOOTING WITHIN A DISTANCE EQUAL TO TRENCH FROM THE TRENCH MUST BE AT THE SAME ELEVATION AS BOTTOM OF TRENCH. PROVIDE 16" X 16" CONCRETE PEDESTAL, POUR WITH FOOTING 4-#6 VERTICAL BARS WITH #3 TIES AT 12" O.C. 3 - #3 TIES AT 3" O.C. AT TOP.
4. BRIDGE CONTINUOUS FOOTING OVER TRENCH WITH 4 - #6 x 16'-0" LONG BARS AT BOTTOM. CENTER BARS ON TRENCH. VERIFY ALL CONDITIONS IN FIELD.
5. ALL PLANTERS IN CLOSE PROXIMITY TO THE STRUCTURE SHALL HAVE ADEQUATE DRAINAGE OF SURFACE WATER TO PREVENT SATURATION OF SOIL UNDER FOUNDATION.
6. USE STEPPED FOOTING DETAIL AS REQUIRED, SEE PLAN.

REINFORCING STEEL

1. REINFORCING STEEL SHALL BE DEFORMED BARS OF INTERMEDIATE GRADE CONFORMING TO ASTM SPECIFICATION: A615 GRADE 40 FOR BARS #4 AND SMALLER: A615 GRADE 60 FOR BARS #5 AND LARGER. MESH REINFORCING SHALL BE 6X6 - W1.4 X W1.4 UNLESS SHOWN OTHERWISE, CONFORMING TO ASTM SPECIFICATION A185.
2. REINFORCEMENT MARKED CONTINUOUS MAY BE SPLICED BY LAPPING 64 BAR DIAMETERS IN MASONRY WITH A 24 INCH MINIMUM LAP EACH CASE.
3. MIN LAP OF WELDED WIRE FABRIC SHALL BE 6" OR ONE FULL MESH, WHICHEVER IS GREATER.
4. DOWELS FROM FOOTINGS SHALL BE OF THE SAME SIZE AND SPACING AS VERTICAL WALLS AND COLUMNS REINFORCEMENT, UNLESS NOTED OTHERWISE ON PLANS.
5. PROVIDE SPACER BARS, SPREADERS, CHAIRS, BLOCKS, ETC., AS REQUIRED TO SECURELY HOLD STEEL IN PLACE.
6. REINFORCING BARS CONFORMING TO ASTM A706 SHALL BE USED FOR REBARS REQUIRING WELDING AND ALL GRADE BEAM REINFORCING

CONCRETE

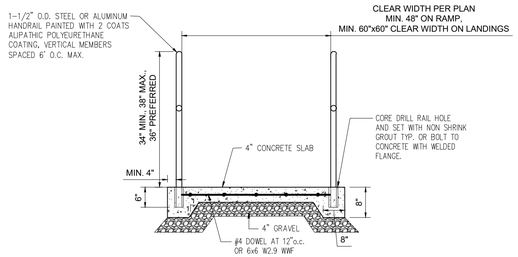
1. PORTLAND CEMENT SHALL BE TYPE I OR II CONFORMING TO ASTM SPECIFICATION C150. AGGREGATES SHALL BE NORMAL WEIGHT CONFORMING TO ASTM SPECIFICATION C33, WITH PROVEN SHRINKAGE CHARACTERISTICS OF LESS THAN 0.04%. USE SPECIAL TYPE OF CEMENT WHERE REQUIRED BY SOIL CONDITIONS --- SEE SOIL REPORT.
2. ALL CONCRETE SHALL BE DESIGNED BY APPROVED LABORATORY, AND DESIGN MIX SHALL SUBMIT TO ARCHITECT/ENGINEER FOR REVIEW, AND OBTAIN APPROVAL PRIOR TO USE.
   MAXIMUM SLUMP SHALL BE 4" U.N.O.
   USE MINIMUM OF FIVE SACKS OF CEMENT PER CUBIC YARD.
   CONC. FOOTING (WALL CONT. FTG.) : 3000 PSI @ 28 DAY
   CONC. FOOTING (COLUMN PAD)* : 3000 PSI @ 28 DAY
   GRADE BEAM : 3000 PSI @ 28 DAY
   SLAB ON GRADE* : 3000 PSI @ 28 DAY
3. CONCRETE SHALL HAVE A MINIMUM CEMENT CONTENT PER CUBIC YARD AS FOLLOWS U.N.O.:
   3000 PSI - 470#
   4000 PSI - 564#
   5000 PSI - 611#
4. ALL CONCRETE SHALL NOT EXCEED THE MAXIMUM WATER/CEMENT RATIO AS FOLLOWS:

COMPRESSIVE STRENGTH	NON AIR ENTRAINED	AIR ENTRAINED
3000 PSI	0.55	0.50
4000 PSI	0.50	0.45
5000 PSI	0.45	0.40

5. PROVIDE 6" (±1%) AIR ENTRAINMENT IN ALL CONCRETE EXPOSED TO WEATHER.
6. FOR SLAB ON GRADE, THE MINIMUM CEMENT CONTENT SHALL BE BASED ON THE MAXIMUM SIZE OF AGGREGATE AS FOLLOWS:

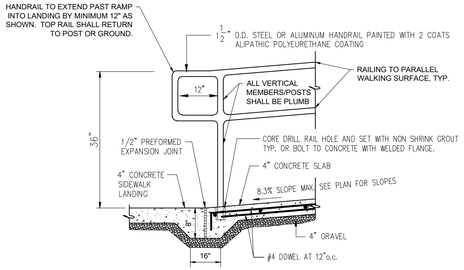
MAX. SIZE OF AGGREGATE IN INCHES	CEMENT LB. PER CUBIC YARD
1 1/2	470#
1	520#
3/4	540#
1/2	590#

7. NO PIPES OR DUCTS SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATION OF SLEEVES, MOULDS, FLOOR HINGES, ETC., TO BE CAST INTO THE CONCRETE.
8. VIBRATION OF CONCRETE SHALL BE PERFORMED IN ACCORDANCE WITH THE PORTLAND CEMENT ASSOCIATION SPECIFICATION.
9. CONCRETE SHALL BE MAINTAINED IN A MOIST CONDITION FOR A MINIMUM OF SEVEN DAYS AFTER ITS PLACEMENT: APPROVED CURING COMPOUNDS MAY BE USED IN LIEU OF MOIST CURING.



RAMP SECTION DETAIL

NOT TO SCALE



RAMP TERMINATION DETAIL

NOT TO SCALE

NOTE:

- HANDRAILS SHALL BE PROVIDED ALONG BOTH SIDES OF RAMP SEGMENTS. THE INSIDE HANDRAIL ON SWITCHBACK OR DOGLEG RAMPS SHALL ALWAYS BE CONTINUOUS.
- IF HANDRAILS ARE NOT CONTINUOUS, THEY SHALL EXTEND AT LEAST 12 IN (305 MM) BEYOND THE TOP AND BOTTOM OF THE RAMP SEGMENT AND SHALL BE PARALLEL WITH THE FLOOR OR GROUND SURFACE.
- THE CLEAR SPACE BETWEEN THE HANDRAIL AND THE WALL SHALL BE 1 - 1/2 IN (38 MM).
- GRIPPING SURFACES SHALL BE CONTINUOUS.
- TOP OF HANDRAIL GRIPPING SURFACES SHALL BE MOUNTED BETWEEN 34 IN AND 38 IN (865 MM AND 965 MM) ABOVE RAMP SURFACES.
- ENDS OF HANDRAILS SHALL BE EITHER ROUNDED OR RETURNED SMOOTHLY TO FLOOR, WALL, OR POST.
- HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

NOTE:

CONTRACTOR SHALL ENSURE ALL RAMPS ARE FULLY ADA COMPLIANT INCLUDING, BUT NOT LIMITED TO, RAMP SURFACE MATERIAL/TEXTURE, LANDINGS, SLOPES, RAILINGS, ETC. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPENCIES BETWEEN THE PROVIDED PLANS AND DETAILS AND THE ADA REQUIREMENTS.

FRITZ ENGINEERING SERVICES
14020 MISSISSINEWA DRIVE
CARMEL, INDIANA 46033
P: 317.324.8695 F: 317.324.8717
www.Fritz-Eng.com

PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS AND ISSUES	DATE	BY

GENERAL NOTES / LEGEND:

"IT'S THE LAW" 811
Know what's below.
Call before you dig.
2 WORKING DAYS BEFORE YOU DIG.

PROJECT:
GREEN TOUCH MCCORDSVILLE
Green Touch Services

PROJECT LOCATION:
6312 RAILROAD ST
MCCORDSVILLE, INDIANA 46055
HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE:
NE ¼, S26, T17N, R5E

CLIENT:
MacDOUGALL PIERCE CONSTRUCTION
12720 FORD DRIVE
FISHERS, IN 46038

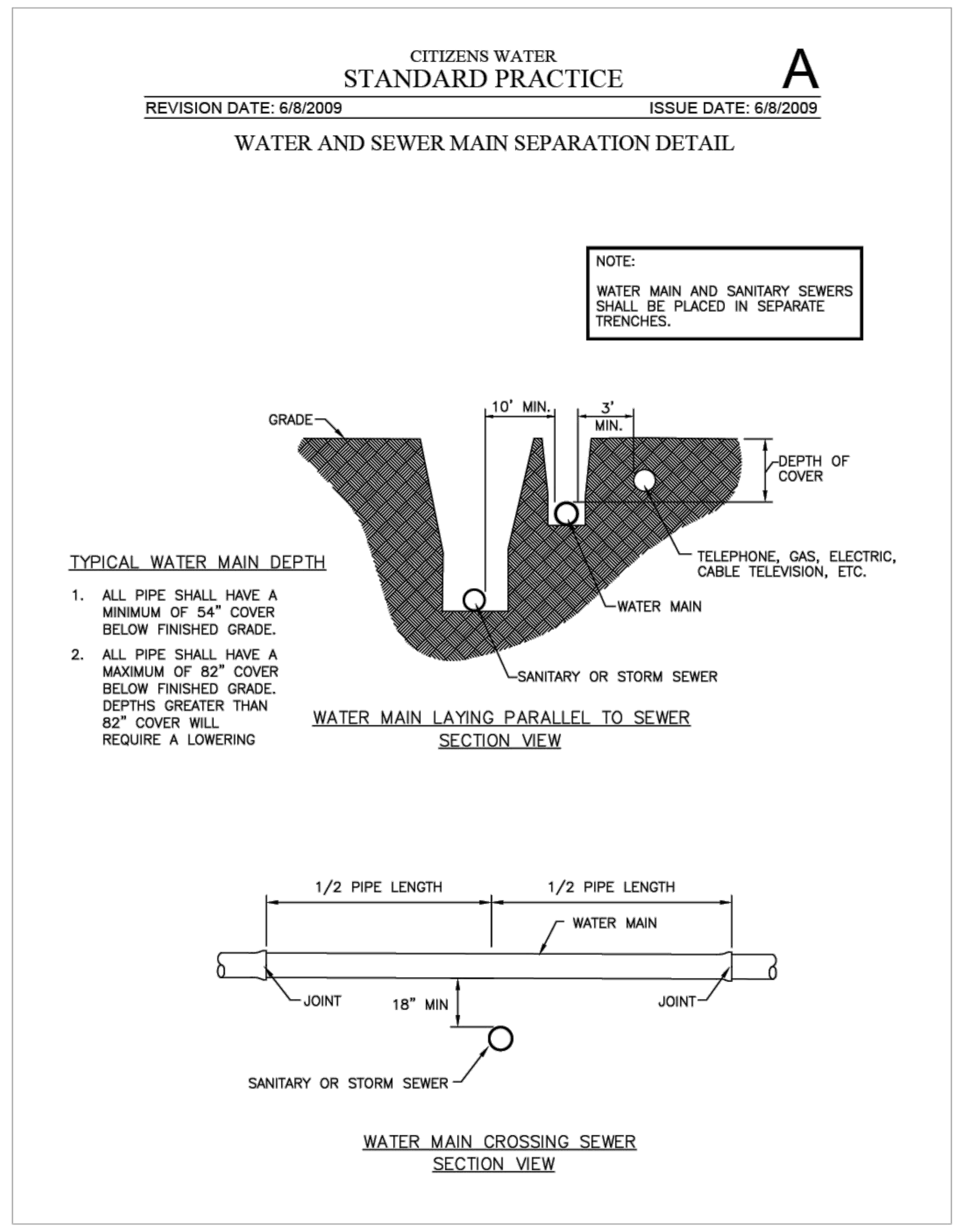
PLAN DATE: 3/8/2024

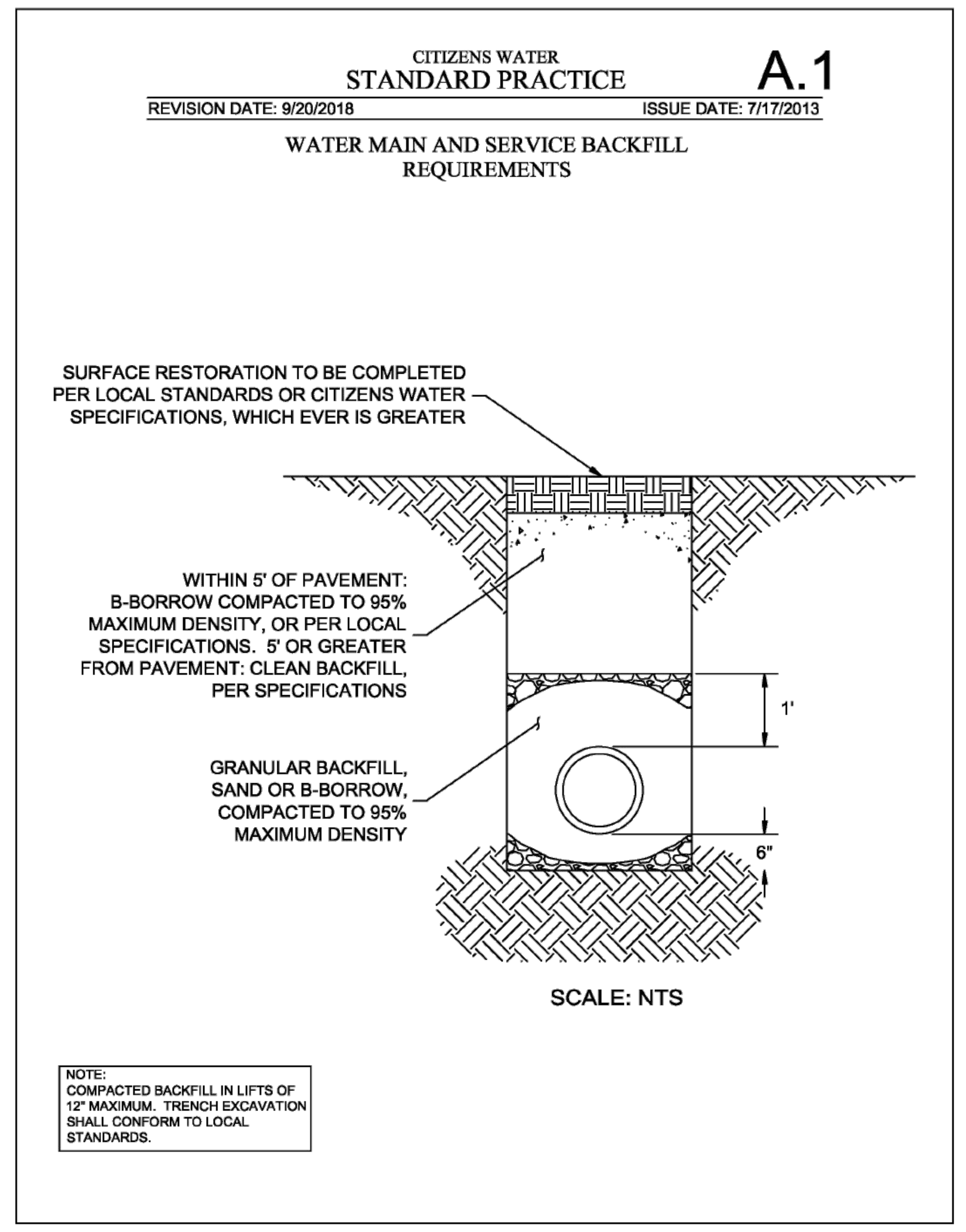
DESIGN:	CHECK:	DRAWN:
AF	AF	KG

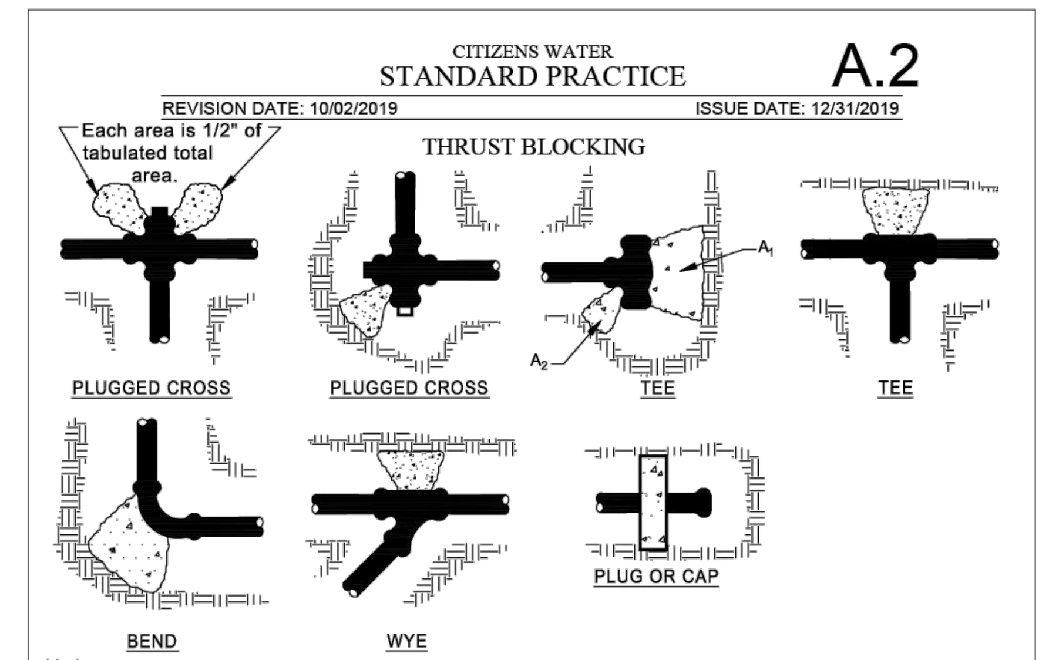
PROJECT NO. 2308005

SHEET NAME
SITE DETAILS

SHEET NO.
C802



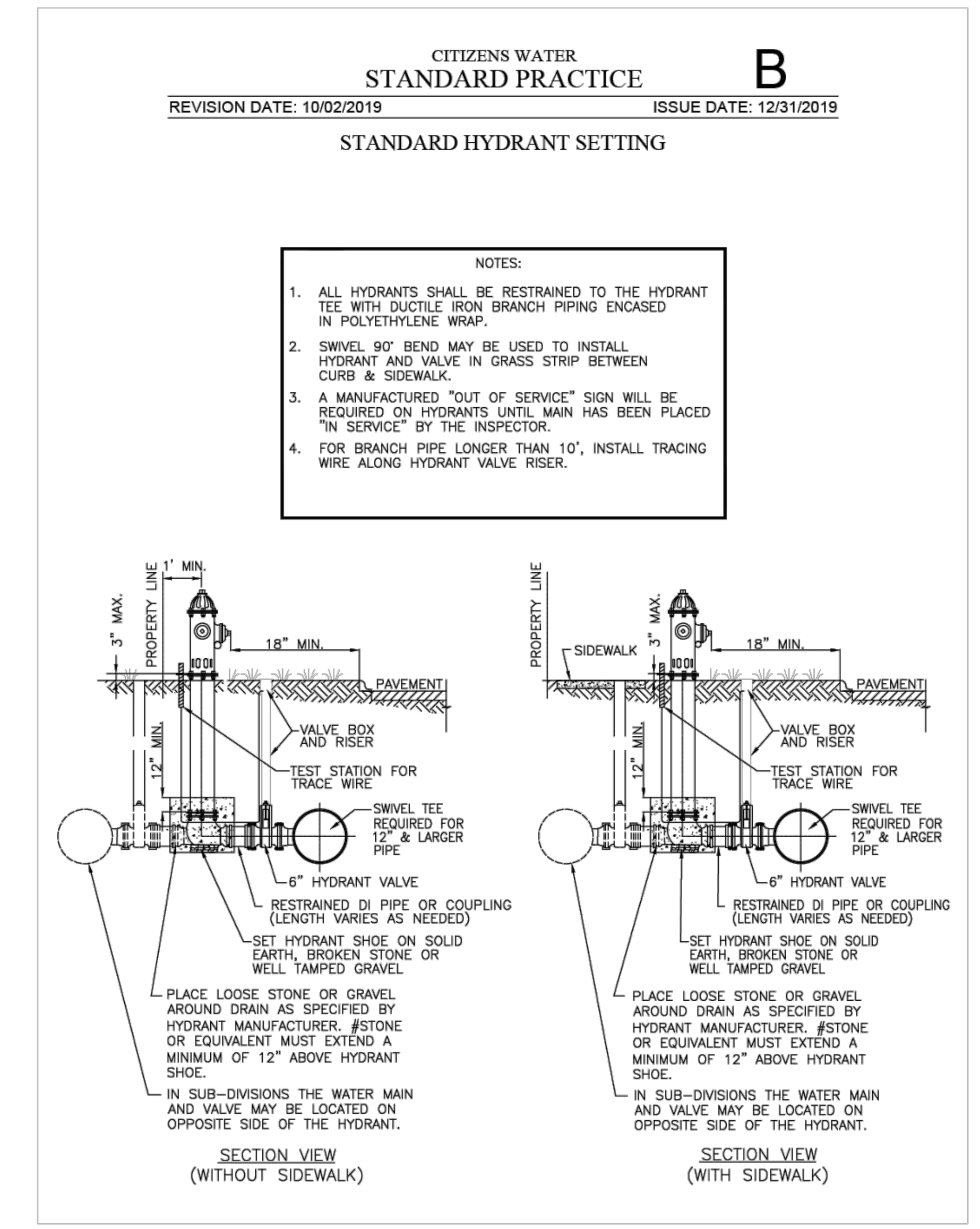


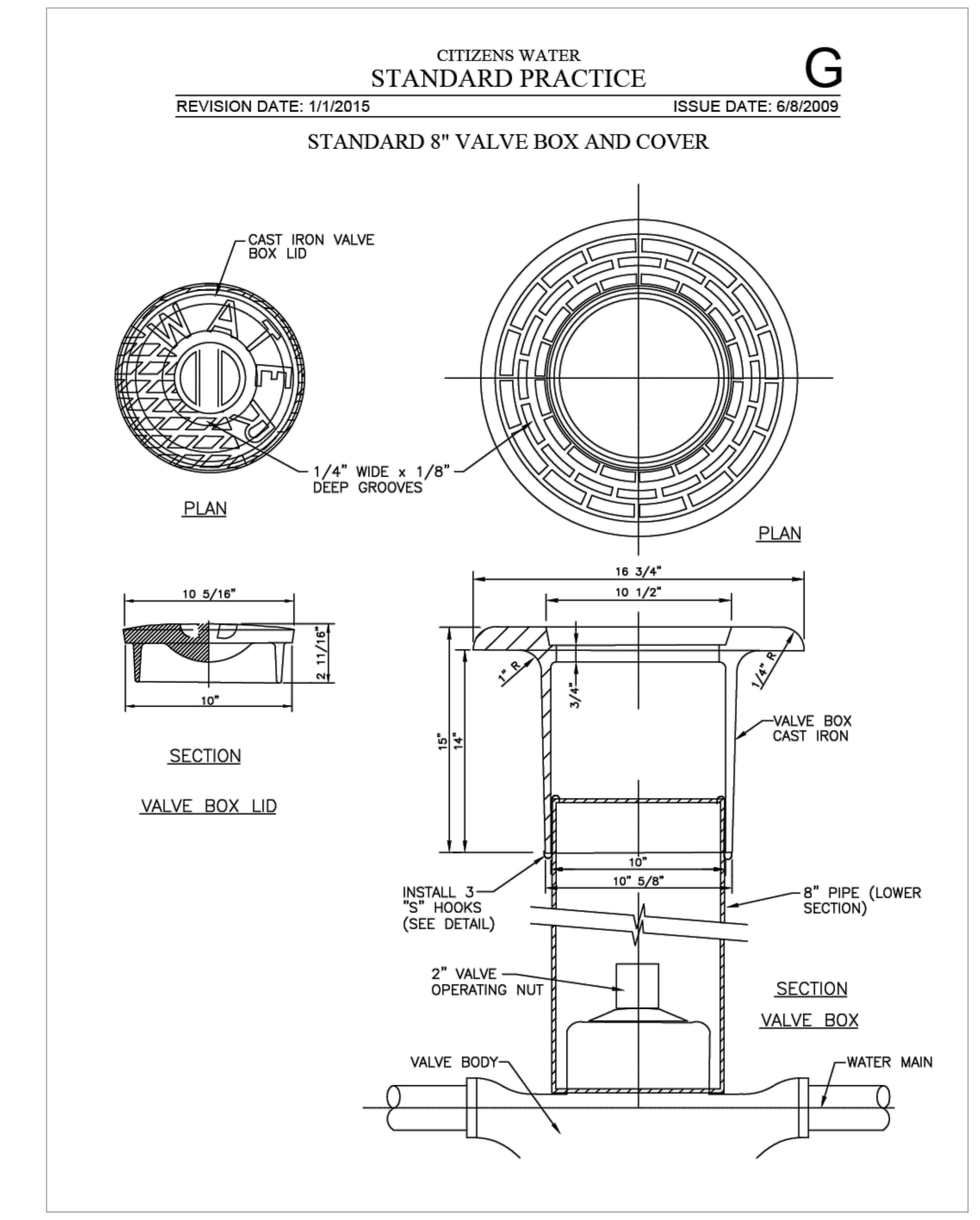


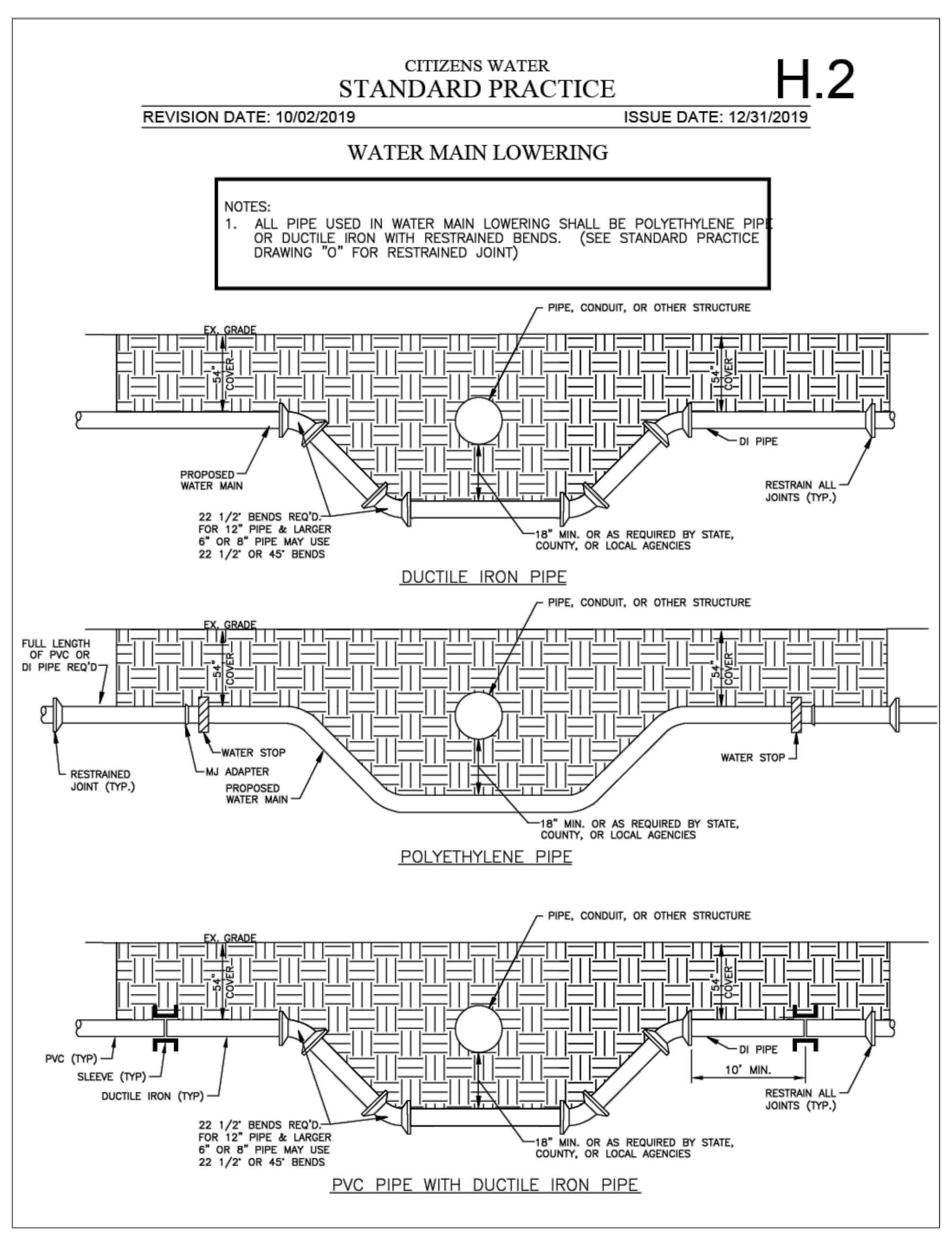
Notes:
1) CONCRETE THRUST BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
2) KEEP CONCRETE CLEAR OF JOINT AND ACCESSORIES.
3) POLYETHYLENE ENCASEMENT SHALL BE PLACED BETWEEN CONCRETE AND FITTINGS.
4) ALL POURED IN PLACE CONCRETE SHALL HAVE A 28 DAY STRENGTH OF 3,000 P.S.I., 2" TO 4" SLUMP AND INCLUDE WIRE MESH FOR REINFORCEMENT.
5) MINIMUM SOIL BEARING SURFACE AREA REQUIREMENTS ARE PROVIDED BELOW BASED ON 150 P.S.I. WATER PRESSURE PLUS 100 P.S.I. WATER HAMMER AND SOIL BEARING CAPACITY OF 3,000 POUNDS PER SQUARE FOOT.

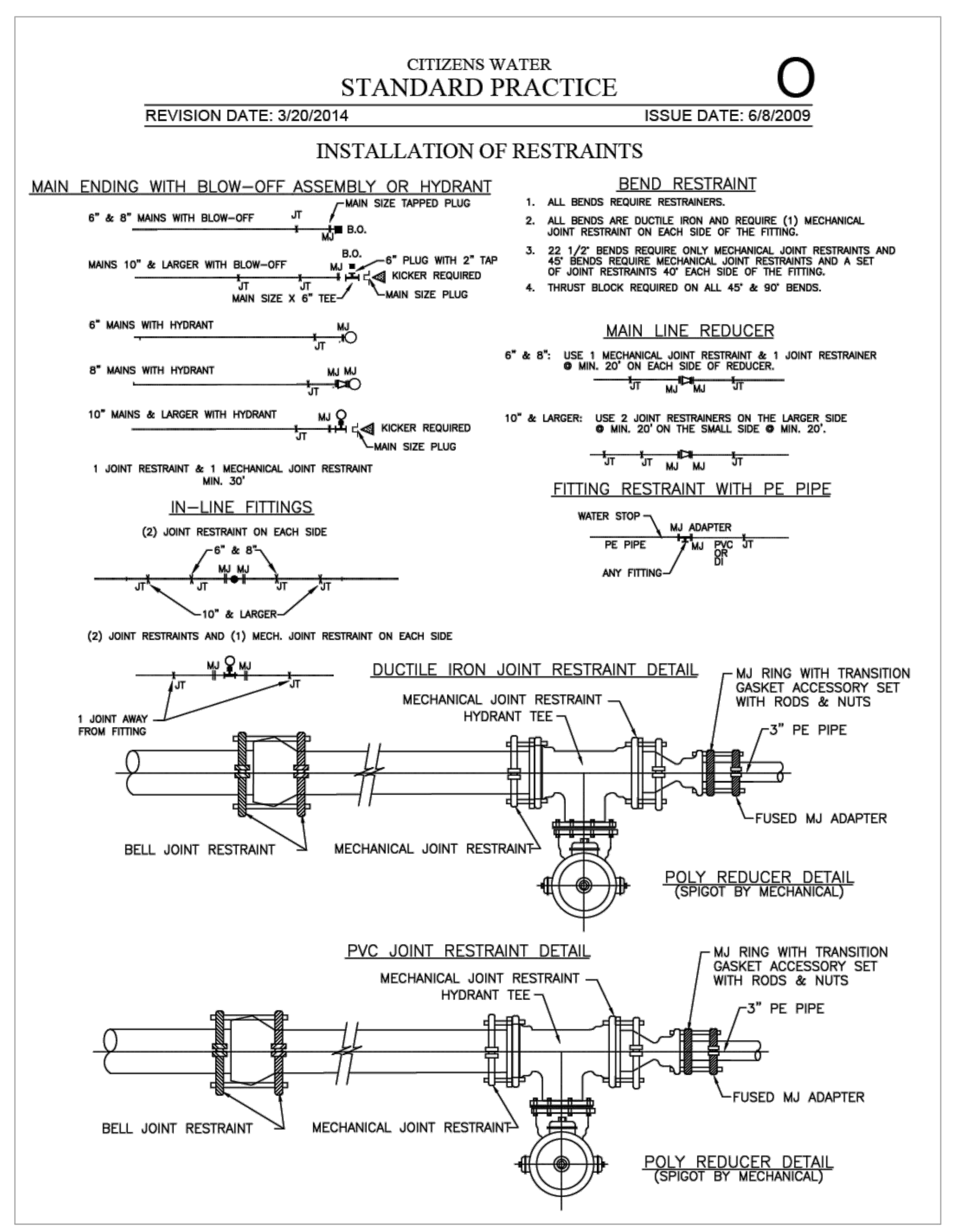
Minimum Soil Bearing Surface Area (ft2)
(Assuming 3,000 psf Soil Bearing Capacity)

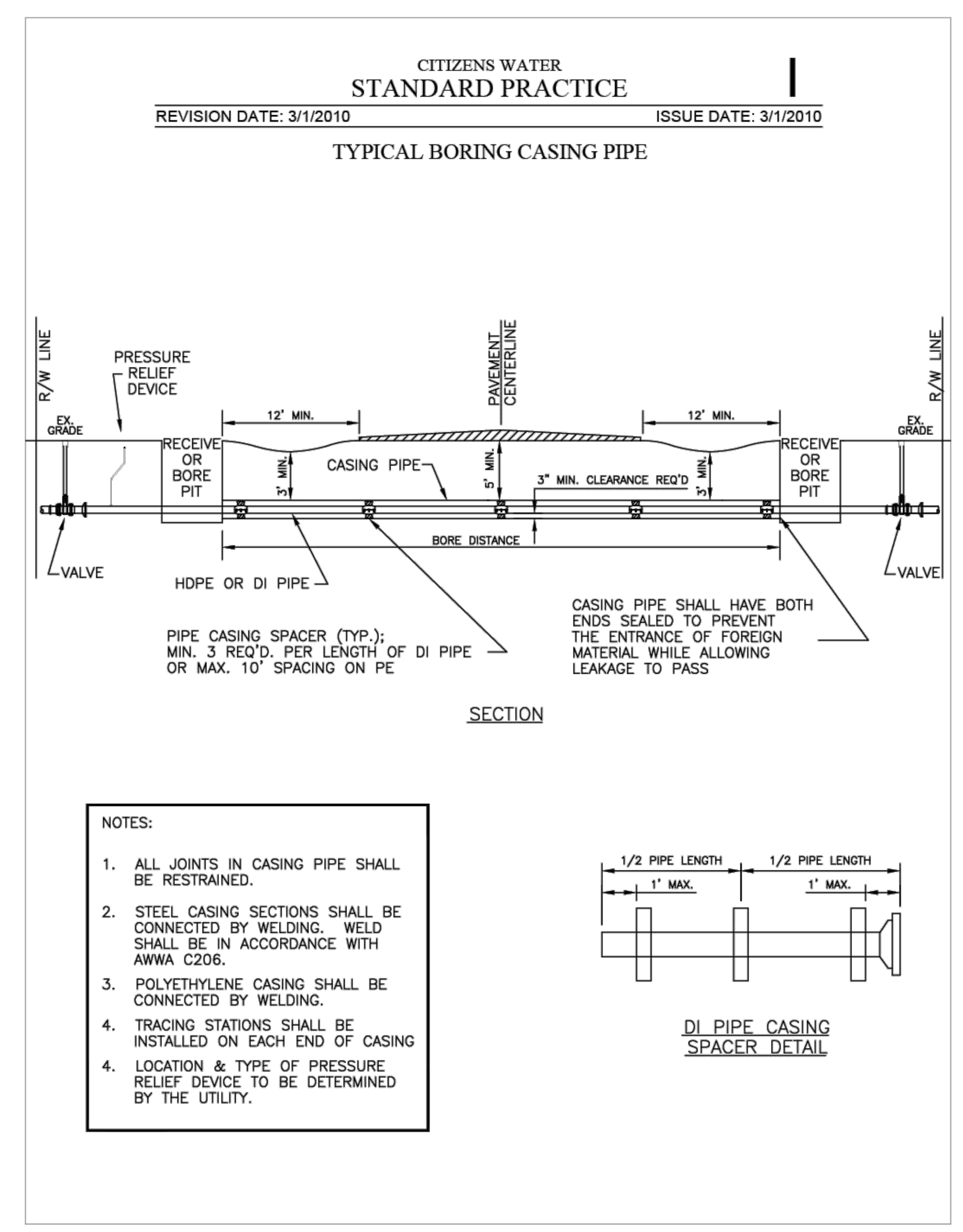
Pipe Size	Horizontal Bends			Tee or Dead End (Plug/Cap)
	22-1/2°	45°	90°	
6"		6	8	6
8"		6	8	6
12"	4	6	11	8
16"	6	11	22	15
20"	9	18	36	24
24"	13	27	50	36
30"	20	45	76	57
36"	31	59	115	80

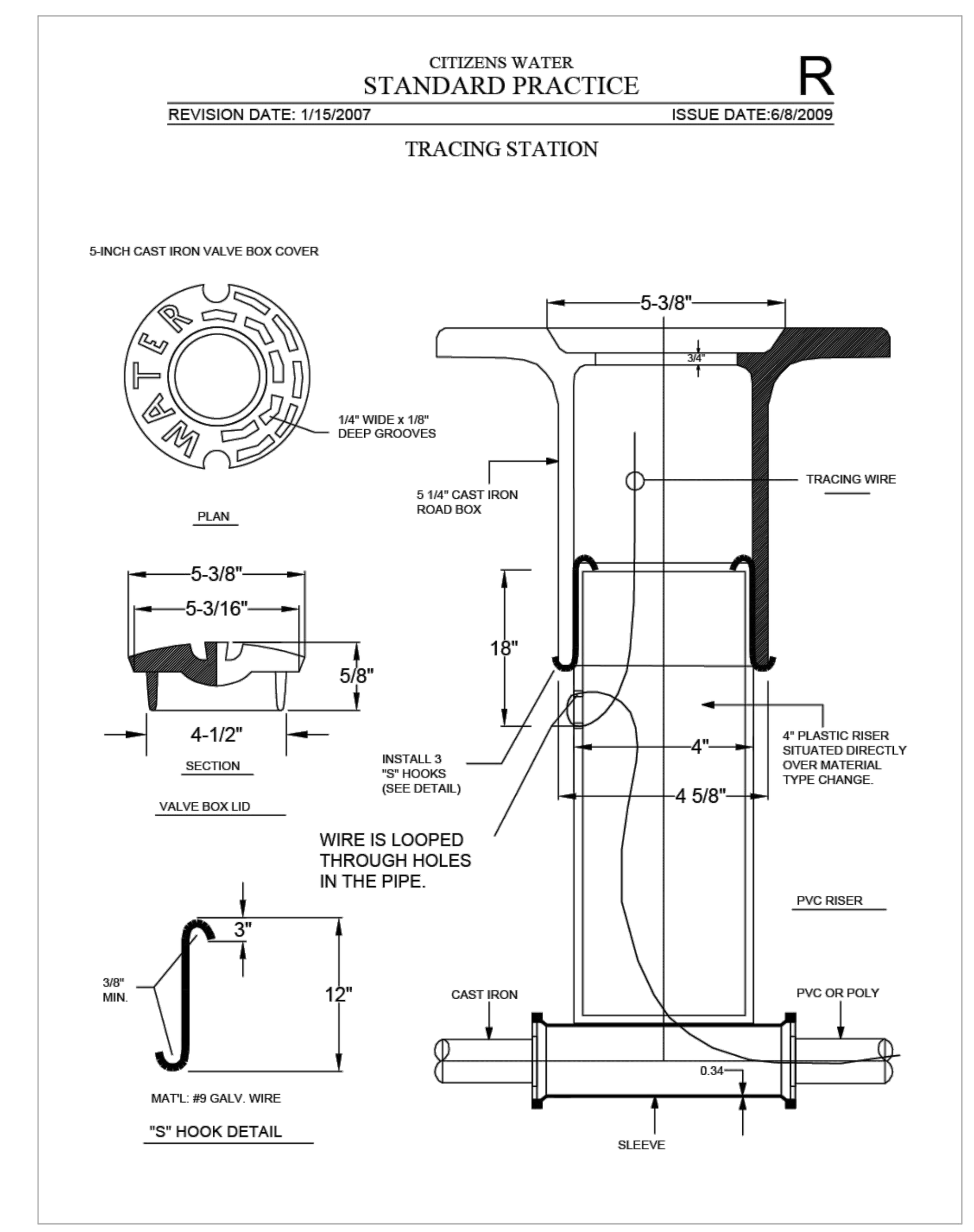


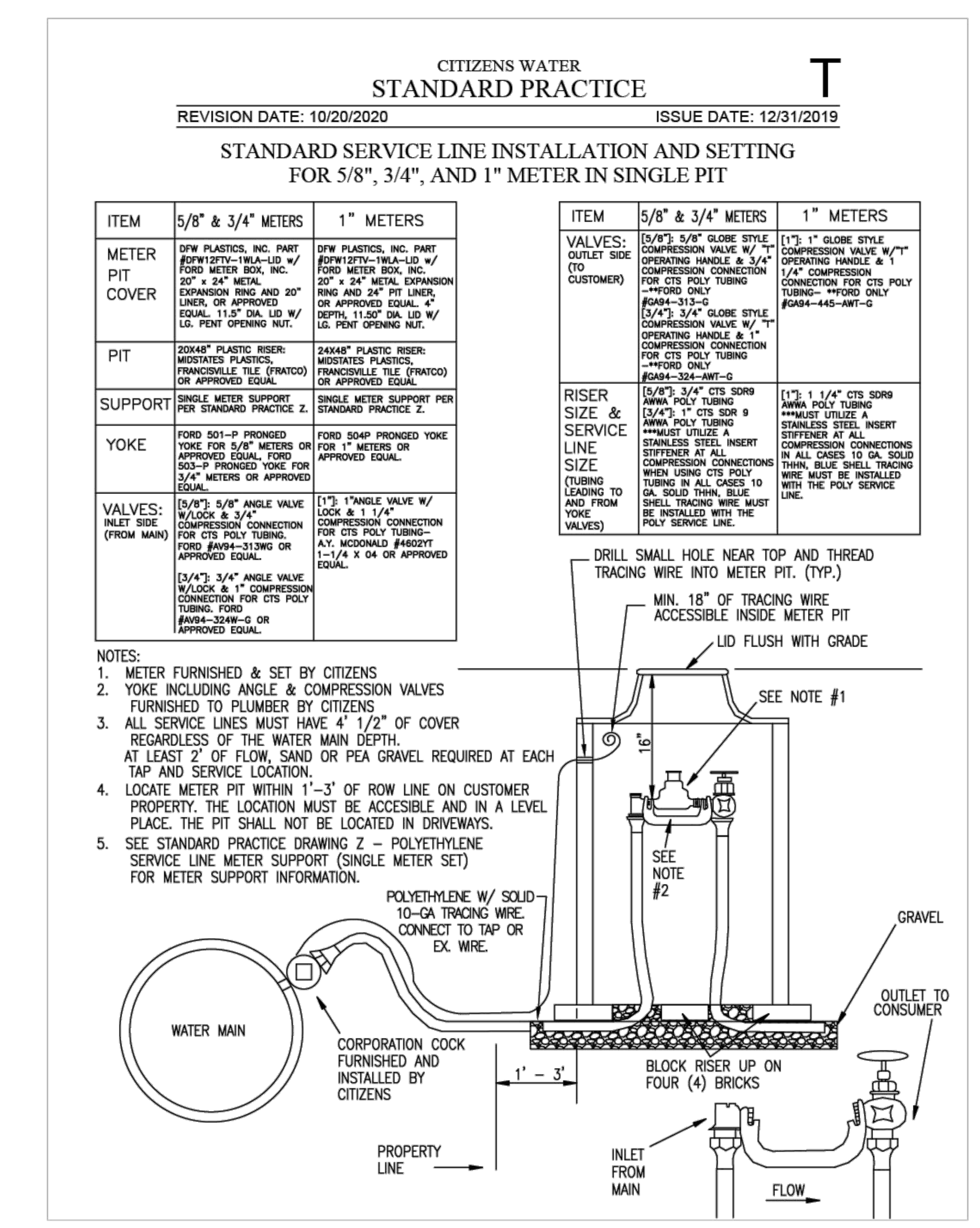












FRITZ
ENGINEERING SERVICES
14020 MISSISSINEWA DRIVE
CARMEL, INDIANA 46033
P: 317.324.8695 F: 317.324.8717
www.Fritz-Eng.com

PRELIMINARY
NOT FOR
CONSTRUCTION

REVISIONS AND ISSUES	DATE	BY

GENERAL NOTES / LEGEND:

"IT'S THE LAW"
811
Know what's below.
Call before you dig.
2 WORKING DAYS BEFORE YOU DIG.

PROJECT:
GREEN TOUCH
MCCORDSVILLE
Green Touch Services

PROJECT LOCATION:
6312 RAILROAD ST
MCCORDSVILLE, INDIANA 46055
HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE:
NE $\frac{1}{4}$, S26, T17N, R5E

CLIENT:
MacDOUGALL PIERCE CONSTRUCTION
12720 FORD DRIVE
FISHERS, IN 46038

PLAN DATE: 3/8/2024

DESIGN:	CHECK:	DRAWN:
AF	AF	KG

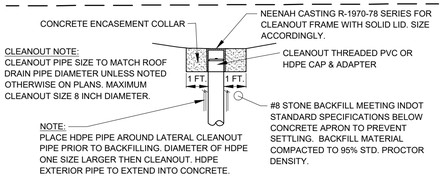
PROJECT NO. 2308005

SHEET NAME
UTILITY DETAILS

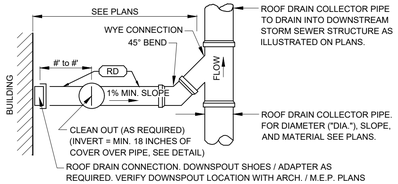
SHEET NO.
C803

KEYNOTES:

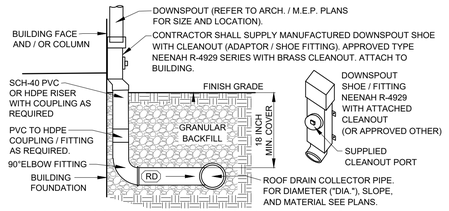
(RD) RD = ROOF DRAIN (# INCH DIA. HDPE N-12 PIPE) AT 1.0% MIN. SLOPE. (VERIFY PIPE DIAMETER WITH FEASIBILITY WITH DOWNSPOUT CONNECTION PER ARCHITECTURAL / M.E.P. PLANS - ADJUST ACCORDINGLY.)



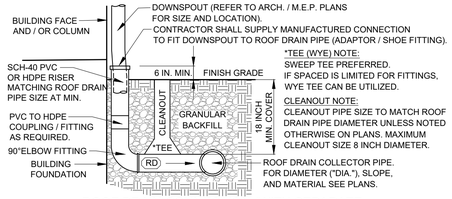
ROOF DRAIN CLEANOUT CASTING AND COLLAR



ROOF DRAIN CONNECTION PLAN VIEW



ROOF DRAIN CONNECTION (WITH CLENAOUT INCLUDED IN DOWNSPOUT SHOW) SECTION VIEW

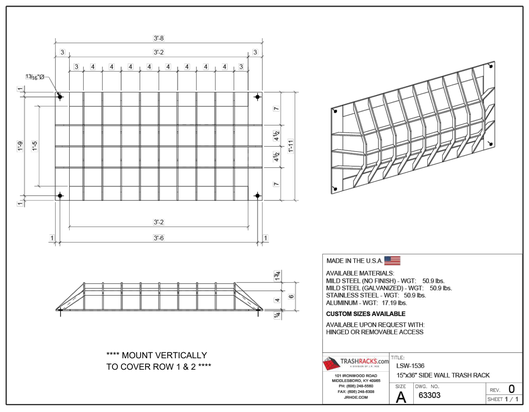


ROOF DRAIN CONNECTION (WITH SEPARATE CLEANOUT APPURTENANCE) SECTION VIEW

BEDDING AND BACKFILL NOTE:
BEDDING AND BACKFILL FOR ROOF DRAIN CONNECTIONS AND COLLECTOR PIPES SHALL FOLLOW BACKFILL AND COMPACTION REQUIREMENTS PER THE CORRESPONDING STORM SEWER PIPES DETAILS AND SPECIFICATIONS.

ROOF DRAIN DOWNSPOUT CONNECTION, COLLECTOR PIPE, AND CLEANOUT DETAILS

NOT TO SCALE

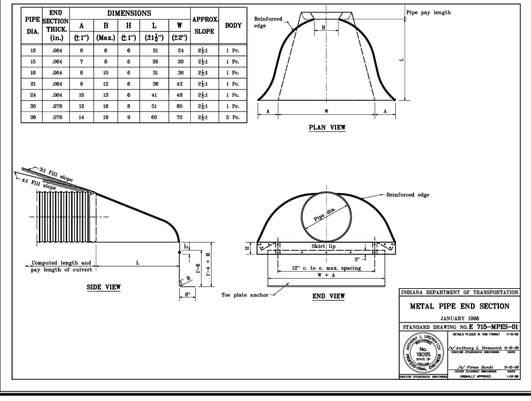


**** MOUNT VERTICALLY TO COVER ROW 1 & 2 ****

ORIFICE TRASH RACK DETAIL, ROW 1 & 2

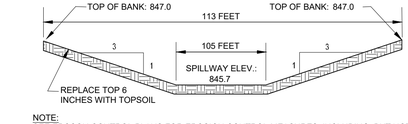
NOT TO SCALE

PIPE DIA.	END SECTION THICK. (in.)	DIMENSIONS A (±1")	B (Max.)	H (±1")	L (±1½")	W (±2")	APPROX. SLOPE	BODY
12	.064	6	6	6	21	24	2:1	1 Pc.
15	.064	7	8	6	25	30	2:1	1 Pc.
18	.064	8	10	6	31	36	2:1	1 Pc.
21	.064	9	12	6	36	42	2:1	1 Pc.
24	.064	10	13	6	41	48	2:1	1 Pc.
30	.079	12	16	8	51	60	2:1	1 Pc.
36	.079	14	19	9	60	72	2:1	2 Pc.



STORM STRUCTURE 602
DETENTION FACILITY OUTLET CONTROL STRUCTURE DETAIL

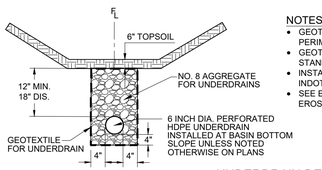
NOT TO SCALE



NOTE:
SEE EROSON CONTROL PLANS FOR EROSION CONTROL MEASURES, INCLUDING, BUT NOT LIMITED TO, PERMANENT SEEDING, EROSION CONTROL BLANKETS, RIP-RAP, ETC., AS SPECIFIED.

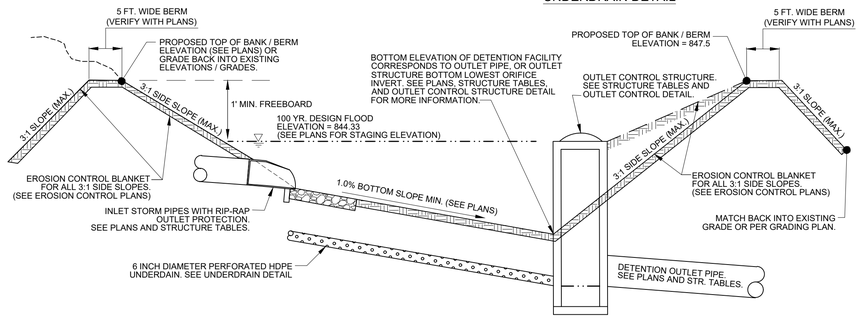
DETENTION FACILITY EMERGENCY SPILLWAY DETAIL

NOT TO SCALE



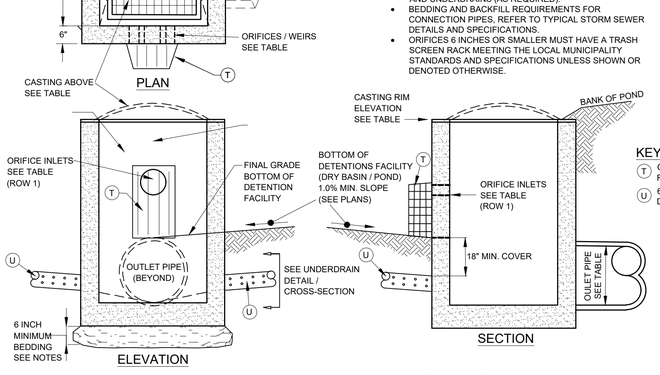
NOTES:
- GEOTEXTILES SHALL BE WRAPPED AROUND ENTIRE PERIMETER OF AGGREGATE MEDIA.
- GEOTEXTLES & AGGREGATE SHALL MEET INDOT STANDARDS AND SPECIFICATIONS.
- INSTALLATION OF UNDERDRAINS SHALL CONFORM TO INDOT STANDARDS AND SPECIFICATIONS.
- SEE EROSION CONTROL PLANS FOR SEEDING AND EROSION CONTROL BLANKET REQUIREMENTS.

UNDERDRAIN DETAIL



DETENTION FACILITY (DRY BASIN) DETAIL / CROSS-SECTION

NOT TO SCALE

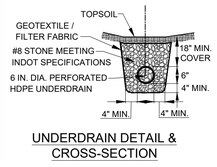


GENERAL NOTES:
- STORM STRUCTURES SHALL BE PRECAST CONCRETE AND SHALL BE IN ACCORDANCE WITH ASTM C890. SEE ADDITIONAL STORM STRUCTURE DETAILS WITHIN PLAN SET FOR FURTHER SPECIFICATIONS.
- APPROVED EQUAL CASTINGS SHALL MATCH STRUCTURALLY AND HYDRAULICALLY.
- GRANULAR LEVELING MATERIAL REQUIRED FOR PRECAST BASE. GRANULAR MATERIAL SHALL BE No. 8 OR No. 53 STONE MEETING INDOT STANDARD SPECIFICATIONS AT A MINIMUM 6 INCHES IN DEPTH AND COMPACTED TO 95% STD. PROCTOR DENSITY.
- SEE PLANS FOR ORIENTATION OF STRUCTURES, PIPES, AND UNDERDRAINS (AS REQUIRED).
- BEDDING AND BACKFILL REQUIREMENTS FOR CONNECTION PIPES, REFER TO TYPICAL STORM SEWER DETAILS AND SPECIFICATIONS.
- ORIFICES 6 INCHES OR SMALLER MUST HAVE A TRASH SCREEN RACK MEETING THE LOCAL MUNICIPALITY STANDARDS AND SPECIFICATIONS UNLESS SHOWN OR DENOTED OTHERWISE.

STRUCTURE DATA TABLE

STRUCTURE I.D.	602			
STRUCTURE SIZE	30" BY 30" BOX STR.			
STRUCTURE TYPE	INDOT TYPE E (MOD.)			
CASTING NUMBER	R-4215-C			
CASTING TYPE	RECT. DITCH GRATE			
CASTING OPEN AREA	3.3 SQ. FT.			
CASTING PERIMETER	11.3 L.F.			
RIM / T.C. ELEV.	SEE STM. STR. TABLE			
ORIFICE(S) ORIENTATION	WEST			
ORIFICES / WEIR INFO	QTY.	TYPE	ELEV.	DIMENSIONS (IN.)
ROW 1	1	ORIFICE	843.65	2.5 " DIA. CIR.
UNDERDRAINS	6 IN. DIA. PERF. HDPE			
UNDERDRAIN INVERT	839.75			
OUTLET PIPE	12 INCH DIA. RCP			
OUTLET INVERT	839.75			
OUTLET DIRECTION	EAST			

KEYNOTES:
- (T) ORIFICE TRASH RACK - SEE SEPARATE DETAILS FOR RACK TYPE AND SPECIFICATIONS.
- (U) 6 IN. DIA. PERFORATED HDPE UNDERDRAIN FOR DRY DETENTION FACILITY BASIN AT 1.0% MIN. SLOPE.



UNDERDRAIN DETAIL & CROSS-SECTION

1. ALL WORK SHALL BE IN ACCORDANCE WITH ALL TOWN OF MCCORDSVILLE CONSTRUCTION STANDARDS AND SPECIFICATIONS (STANDARDS) UNLESS SPECIFICALLY NOTED OTHERWISE.
2. INDIANA STATE DEPARTMENT OF TRANSPORTATION (INDOT) STANDARD SPECIFICATIONS, LATEST EDITION, TO BE USED WITH THESE PLANS. (SUPPLEMENTAL SPECIFICATIONS)
3. IN THE EVENT THESE PLANS OR SUPPLEMENTAL SPECIFICATIONS ARE IN CONFLICT WITH SAID STANDARDS, THE MORE STRINGENT REQUIREMENTS SHALL BE USED.

FRITZ ENGINEERING SERVICES
14020 MISSISSINEWA DRIVE
CARMEL, INDIANA 46033
P: 317.324.8695 F: 317.324.8717
www.Fritz-Eng.com

PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS AND ISSUES	DATE	BY

GENERAL NOTES / LEGEND:

"IT'S THE LAW" 811
Know what's below.
Call before you dig.
2 WORKING DAYS BEFORE YOU DIG.

PROJECT:
GREEN TOUCH MCCORDSVILLE
Green Touch Services

PROJECT LOCATION:
6312 RAILROAD ST
MCCORDSVILLE, INDIANA 46055
HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE:
NE ¼, S26, T17N, R5E

CLIENT:
MacDOUGALL PIERCE CONSTRUCTION
12720 FORD DRIVE
FISHERS, IN 46038

PLAN DATE: 3/8/2024

DESIGN:	CHECK:	DRAWN:
AF	AF	KG

PROJECT NO. 2308005

SHEET NAME
DRAINAGE DETAILS

SHEET NO.
C804

PAVEMENT

A. SCOPE OF WORK

1. The work required under this section includes all exterior concrete and bituminous paving and related items necessary to complete the work indicated on drawings and described in the specifications, including but not limited to:

   - All drives, parking areas within contract limits
   - Curbs and gutters
   - Sidewalks, concrete slabs, exterior steps

B. MATERIALS

1. Concrete: Concrete shall be ready-mixed and shall be a mix of proportioned fine and coarse aggregates with Portland cement and water. Minimum cement content shall be 6 bags per cubic yard of concrete and maximum water content shall be 5.5 U.S. gallons per sack of cement, including moisture in the aggregate. Slump for normal weight concrete shall be a maximum of 4 inches and a minimum of 2 inches. The slump of machine placed concrete shall be no less than 1-1/4 inches or more than 3 inches. Standard test ASTM C-143 shall be used to measure slump. Minimum compressive strength of concrete at 28 days shall be 4000 psi. All exterior concrete shall have air entrainment of 5% to 8% by volume per ASTM C-260. Re-tempering of delivered concrete shall not be permitted. Concrete shall be composed of:

   a. Portland cement: conforming to ASTM C-150, Type IA or type IIIA.
   b. Aggregates: conforming to ASTM C-33.
   c. Water: Shall be clear and free from injurious amounts of oils, acids, alkalics organic materials or other deleterious substances.

2. Pre-molded Joint Filler: Shall be non-extruding type meeting ASTM D-544, except that pre-molded joint filler used in concrete walk construction may be either non-extruding or resilient.

3. Bituminous Pavement Materials: All materials proposed for the construction of bituminous pavements shall comply with the Indiana Department of Transportation Standard Specifications, latest revisions.

4. Compacted Aggregate Sub-base:

   - If a certain type of aggregate is specified and labeled per the plans and/or details, than that aggregate shall meet and be in accordance with the INDOT Standard Specifications.
   - If the aggregate is not specified or labeled than it shall be crushed stone or gravel meeting the following requirements. Crushed gravel shall be a minimum of 35% crushed material. Fines shall be limited to a maximum of 8% of the total. Material shall be free from an excess of flat, elongated, thinly laminated soft or disintegrated pieces, and shall be free from fragments coated with dirt. Compacted aggregate shall have a gradation as presented below.

SIEVE SIZE	% PASSING
1-1/2"	100
1"	80-100
3/4"	70-90
1/2"	55-80
#4	35-60
#8	25-50
#30	2-30
#200	5-10

C. APPLICATION

1. Grading: Do any necessary grading in addition to that performed in accordance with EARTHWORK Section, to bring sub-grades, after final compaction, to the required grades and sections for site improvement.

2. Preparation of Sub-grade: Remove spongy and otherwise unsuitable material and replace with stable material. No traffic shall be allowed on prepared sub-grade prior to paving.

3. Compaction of Sub-grade: Refer to Section 207 of the INDOT Standard Specification Manual.

4. Utility Structures: Check for correct elevation of all manhole covers, inlets, valve boxes and similar structures located within areas to be paved and mark, or have made any necessary adjustments to such structures.

5. Placing Concrete:

   a. Sub-grade: Place concrete only on a moist, compacted sub-grade of base free from loose material. No concrete shall be placed on a muddy or frozen subgrade.
   b. Forms: All forms shall be free from warp, tight enough to prevent leakage and substantial enough to maintain their shape and position without springing or settling when concrete is placed. Forms shall be clean and smooth immediately before concreting.
   c. Placing Concrete: Concrete shall be deposited so as to require as little handling as practicable. When concrete is to be placed at an atmospheric temperature of 35 degrees (F) or less, the Indiana Department of Transportation Standard Specifications, latest revision shall be followed.

6. Concrete Curb and Gutter:

   a. Expansion Joints: Shall be 1/2 inch thick pre-moulded at ends of all returns and a maximum spacing of 100 feet.
   b. Contraction Joints: Unless otherwise provided, contraction joints shall be joints spaced 10 feet on center.
   c. Finish: Tamp and spread concrete as soon as placed, and fill any honeycombed places. Finish square corners to 1/4 inch radius or as otherwise required.

7. Concrete Walks and Exterior Steps:

   a. Slopes: Provide 1/4 inch per foot cross slope. Contractor shall make field adjustments in slopes at walk intersections as necessary to provide proper drainage.
   b. Dimensions: Walks and steps shall be one course construction and of widths and thickness shown on the drawings.
   c. Finish: Spread concrete and trowel with a steel trowel to a hard dense surface after surface water has disappeared. Apply medium broom finish and scribe control joints at 6 foot spacing. Provide 1/2 inch expansion joints where sidewalks intersect and at a maximum spacing of 48 feet along walks.

8. Curing Concrete: Except as otherwise specified, cure all concrete by one of the methods described in the Indiana Department of Transportation Standard Specifications, latest revision.

9. Bituminous Pavement: Hot asphalt concrete pavement shall be as specified in the Indiana Department of Transportation Standard Specifications, latest revisions. Paving will not be permitted during unfavorable weather or when the temperature is 40 degrees (F) or below and falling.

10. Compacted Aggregate Sub-base: The thickness shown on the drawings is the minimum thickness of the fully compacted sub-base: Compaction shall be accomplished by rolling with a smooth wheeled roller weighing 8 to 10 tons. Compact to 95% compaction using Standard Testing Procedures. Along curbs, headers and walls and at all places not accessible to the roller, the aggregate material shall be tamped with mechanical tampers.

EARTHWORK

A. SCOPE OF WORK

1. Extent: The work required under this section consists of all excavating, filling, rough grading and related items necessary to complete the work indicated on the drawings and described in the specifications. The Contractor shall notify in writing the Owners and the Engineer of any changes, errors, or omissions found on the plans or in the field, before work is started or resumed.

   a. In general, the items of work to be performed under this section shall include clearing and grubbing, removal of trees and stumps (where required), protection of trees to remain, stripping and storage of topsoil, fill, compaction and rough grading of entire site as indicated on the drawings.
   b. Excavated material that is suitable may be used for fill. All unsuitable material and all surplus excavated material not required shall be removed from the site by the Contractor. The location of dump and length of haul shall be the Contractor's responsibility.
   c. Provide and place any additional fill material from off the site as may be necessary to produce the grades required. Fill obtained from offsite shall be of kind and quality as specified herein, and as approved by the Engineer & Owner.

2. The Contractor shall accept the site as he finds it and shall remove all trash, rubbish and debris from the site prior to starting excavation.

3. Work not included: The following items of related work are specified and included in other sections of these specifications.

   a. Excavation, grading and backfilling for utility lines.
   b. Storm drainage systems.
   c. Sanitary sewer systems.
   d. Water supply systems.
   e. Drives and paving.

B. BENCHMARKS

1. Maintain carefully all bench marks, monuments and other reference points. If disturbed or destroyed, replace as directed by the Engineer.

C. REMOVAL OF TREES

1. Remove all trees and stumps from area to be occupied by road and surfaced areas. Removal of trees outside these areas shall only be done as noted on drawings or approved by the Owner.

2. All brush, stumps, wood and other refuse from the trees shall be removed from the site or burned with proper permits (where applicable).

D. PROTECTION OF TREES

1. General Protection: the Contractor shall be responsible for the 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 work is started; do not stockpile within branch spread. Remove interfering branches without injury to trunks and cover scars with tree paint.

E. STRIPPING OF TOPSOIL

1. Remove topsoil to a depth of 6 inches (or as indicated by Owner's Geotechnical Engineer) from the areas to be occupied by roads, walks, buildings, and parking areas. Pile and store topsoil at a location where it will not interfere with construction operations. Top soil shall be reasonably free from subsoil, debris and stones larger than 2 inches.

F. DISPOSITION OF UTILITIES

1. Rules and regulations governing the respective utilities shall be observed in executing all work under this section.

2. It shall be the responsibility of each contractor to verify all existing utilities and conditions pertaining to his phase of the work. It shall be the contractor's responsibility to contact the owners of the various utilities before work is started. The contractor shall notify in writing the owners or the engineers of any changes, errors or omissions found on these plans, and/or in the field before work is started or resumes.

3. Where active utilities are encountered but not shown on the drawings, the Contractor shall notify the Utility Company, Owner and Engineer prior to proceeding with any work. An appropriate course of action shall be agreed upon by the Utility Company, Owner and Engineer prior to work commencing.

4. Inactive and abandoned utilities encountered in excavating and grading operations shall be reported to the Engineer. They shall be removed, plugged or capped as directed by the Engineer and/or Utility Company.

G. SITE GRADING

1. Grades: Perform all cutting, filling, compacting of fills and rough grading required to bring entire project area to subgrade as shown on the drawings. Undercut open areas 4" for topsoil.

2. Rough grading: the tolerance for paved areas shall not exceed 0.10 feet above established subgrade. All other areas shall not exceed 0.10 feet plus or minus the established grade. Provide roundings at top and bottom of banks and other breaks in grade. All open areas shall be graded a minimum of 0.5% and a maximum of 3H:1V slope.

3. Sub-grade shall be proof rolled with suitable equipment and all spongy and otherwise unsuitable material shall be removed and replaced with suitable material. Contractor shall coordinate the proof roll procedure with the agency having jurisdiction to ensure proper representation is in attendance for the test.

4. Sub-grade for building areas shall be compacted to a minimum compaction of 95% Modified Proctor Density or per the Archetectual/Structural Construction Plans for the corresponding building area. The Archetectual/Structural plans shall govern.

5. Sub-grade for streets and paved areas - See PAVEMENT specifications.

6. See PAVEMENT section for additional information.

7. All fill material shall be formed from soil free of deleterious material. Prior to placement of fill, a sample of the proposed material shall be submitted to the Owner's Geotechnical Engineer for approval. The fill material shall be placed in layers not to exceed 8" in loose thickness and shall be spread and compacted at the proper moisture content.

8. All fill material in areas outside of building and pavement areas shall be compacted lightly with each lift and protected from erosion. Areas of building construction shall have suitable fill material placed and compacted in accordance with the Soils Engineer's report and per sub-section 4 described above in this Section.

9. The Contractor shall verify all earthwork quantities prior to the start of construction. The Contractor shall notify the Owner and Engineer in writing if excess or shortage of earth quantities is encountered and verify requirements for stockpiling, removal or importing earth. Owner and Engineer hereby reserve the right to allow minor adjustments in proposed grades to reduce an earth quantity disparity.

H. SEEDING PREPARATION

1. Contractor shall resolve any surface or subsurface drainage problems and construct permanent erosion control structures.

2. Remove all rocks, roots or other materials that may interfere with seedbed preparation.

3. Perform the major filling, shaping and smoothing of gullied or severely eroded areas.

4. Have soil tested to check pH and fertility levels. Apply lime at rate specified in seeding specifications on the plans.

5. Work all lime and fertilizer into the soil to a depth of 2-3 inches with a small disk, harrow or rake operated across the slope as much as possible.

6. Firm the soil bed where possible. Do not over pack the soil to ensure compacting does not restrict water and root penetration into the soil.

STORM SEWER SYSTEMS

Storm construction procedures, materials, testing, details and specifications ("standards") shall be in accordance with TOWN OF MCCORDSVILLE STORMWATER TECHNICAL AND CONSTRUCTION STANDARDS. INDOT Specifications and Standard Drawings (details) shall be utilized as supplemental information and standards as it relates to this project and construction. Please refer to these standards, specifications, and details for all storm sewer system construction.

SANITARY SEWER SYSTEMS

Sanitary construction procedures, materials, testing, details and specifications shall be in accordance with TOWN OF MCCORDSVILLE WASTEWATER STANDARDS & SPECIFICATIONS. Please refer to these standards, specifications, and details for all sanitary sewer system construction.

WATER & FIRE SUPPRESSION SYSTEMS

Water construction procedures, materials, testing, details and specifications shall be in accordance with CITIZENS WATER TECHNICAL & CONSTRUCTION STANDARDS. Please refer to these standards, specifications, and details for all water system construction.

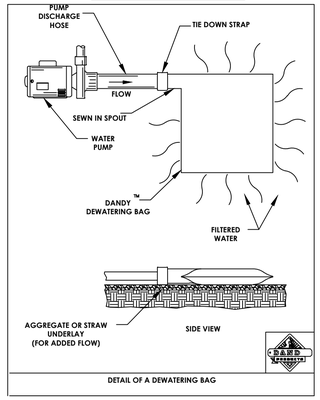
Fire Suppression systems construction procedures, materials, testing, details and specifications shall be in accordance with CITIZENS WATER STANDARDS AND TOWN OF MCCORDSVILLE FIRE DEPARTMENT STANDARDS AND REQUIREMENTS. Please refer to these standards, specifications, and details for all fire suppression system construction.

DEWATERING AND CONTROL OF SURFACE WATER

Whenever groundwater is encountered, the CONTRACTOR shall make every practical effort to secure a dry trench bottom before laying pipe. The CONTRACTOR shall provide, install and operate sufficient trenches, sumps, pumps, hose, piping, well points, etc. 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 bedding, and place not less than three (3) inches of No. 8 crushed stone in the over-excavated area.

The CONTRACTOR shall keep the site free of surface water at all times and shall install drainage ditches, dikes, pumps, and perform other work necessary to divert or remove rainfall and other accumulation of surface water from excavations. The diversion and removal of surface 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 AN ACTIVE SANITARY SEWER SYSTEM.

DANDY DEWATERING BAG



DETAIL OF A DEWATERING BAG

1. ALL WORK SHALL BE IN ACCORDANCE WITH ALL TOWN OF MCCORDSVILLE CONSTRUCTION STANDARDS AND SPECIFICATIONS (STANDARDS) UNLESS SPECIFICALLY NOTED OTHERWISE.
2. INDIANA STATE DEPARTMENT OF TRANSPORTATION (INDOT) STANDARD SPECIFICATIONS, LATEST EDITION, TO BE USED WITH THESE PLANS. (SUPPLEMENTAL SPECIFICATIONS)
3. IN THE EVENT THESE PLANS OR SUPPLEMENTAL SPECIFICATIONS ARE IN CONFLICT WITH SAID STANDARDS, THE MORE STRINGENT REQUIREMENTS SHALL BE USED.

FRITZ ENGINEERING SERVICES
14020 MISSISSINEWA DRIVE
CARMEL, INDIANA 46033
P: 317.324.8695 F: 317.324.8717
www.Fritz-Eng.com

PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS AND ISSUES	DATE	BY

GENERAL NOTES / LEGEND:

"IT'S THE LAW" 811 Know what's below. Call before you dig. 2 WORKING DAYS BEFORE YOU DIG.

PROJECT:

GREEN TOUCH MCCORDSVILLE

Green Touch Services

PROJECT LOCATION:

6312 RAILROAD ST
MCCORDSVILLE, INDIANA 46055
HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE:

NE $\frac{1}{4}$, S26, T17N, R5E

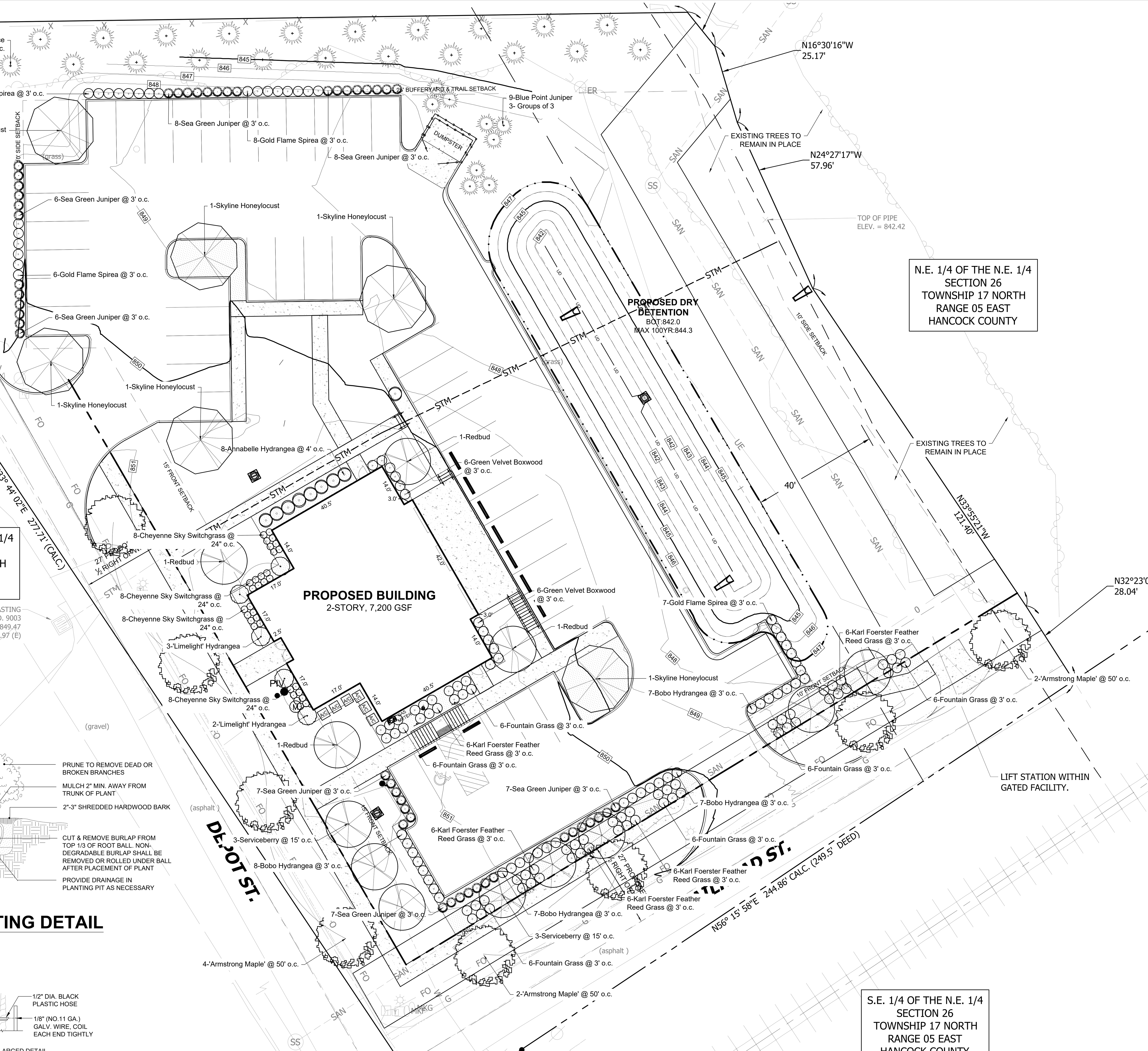
CLIENT:

MacDOUGALL PIERCE CONSTRUCTION

12720 FORD DRIVE
FISHERS, IN 46038

PLAN DATE: 3/8/2024		
DESIGN: AF	CHECK: AF	DRAWN: KG
PROJECT NO. 2308005		
SHEET NAME: **GENERAL SPECIFICATIONS**		
SHEET NO. **C901**		

PRINTED BY: Andrew Fritz
DATE: 3/7/2024 8:43 AM
SCALE: THESE PLANS ARE FULL SIZED D (34.00 X 22.00 INCHES) 1:1
FILE NAME: F:\2022\2308005 - GREEN TOUCH MCCORDSVILLE\03 CIVIL\PLANS\SH1 DWG, LAYOUT, C901 GENERAL SPECIFICATIONS

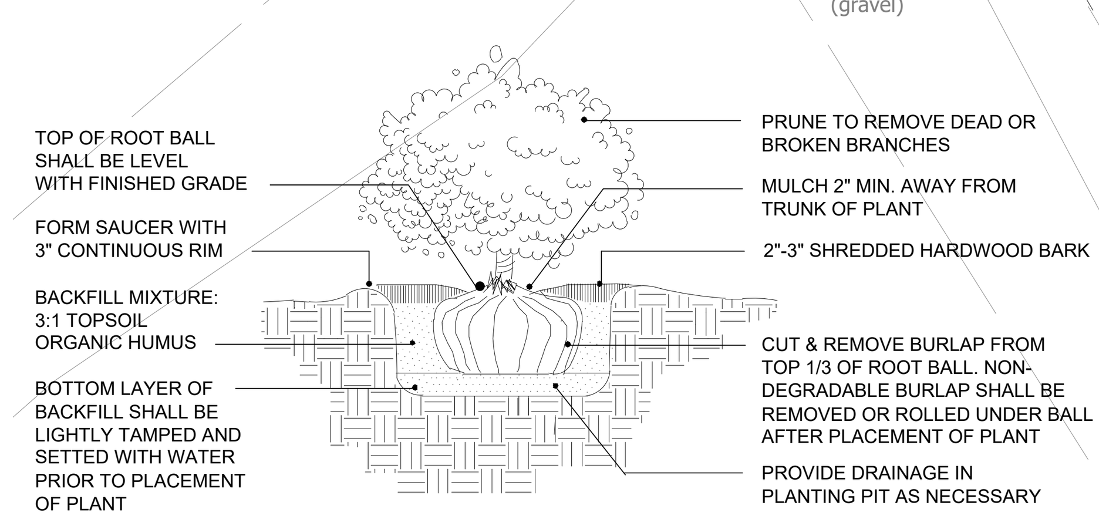


SYMBOL LEGEND

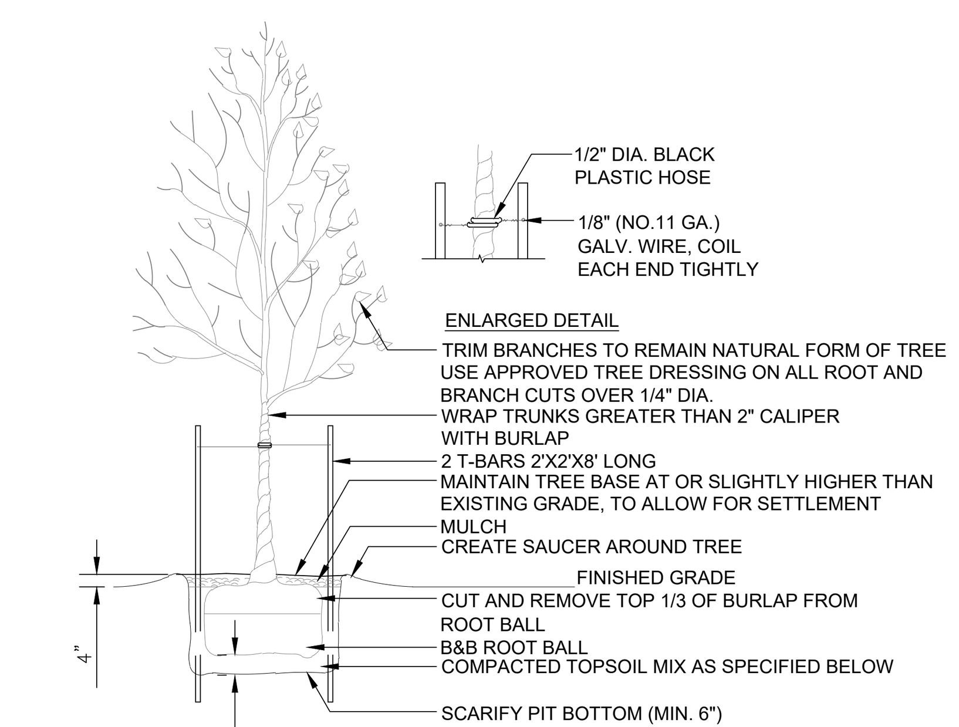
- PROPOSED CANOPY TREE
- PROPOSED ORNAMENTAL TREE
- PROPOSED EVERGREEN TREE
- PROPOSED SHRUB
- MULCH REQUIRED

N

SCALE: 1" = 20'



SHRUB PLANTING DETAIL



SPECIFICATIONS:
1. TOPSOIL MIX. TOP 6 INCHES OF SOIL TO BE A 50/50 MIX OF NATIVE SOIL AND GENERAL PLANTING MIX.
2. DO NOT DAMAGE MAIN ROOTS OR DESTROY ROOT BALL WHEN INSTALLING TREE STAKE.
3. WATER THOROUGHLY AFTER INSTALLATION.
4. REMOVE TREE RINGS AND STAKES TWO YEARS AFTER INSTALLATION.
5. PROVIDE DRAINAGE FOR PLANTING PIT IN IMPERMEABLE SOIL.
6. ALL TREES MUST BE TAGGED AND APPROVED BY CONSULTANT WITHIN 14 DAYS AFTER TENDER CLOSING.

DECIDUOUS TREE PLANTING DETAIL

Quantity	Botanical Name	Common Name	Condition	Size	Comments
Deciduous Trees					
6	Gledistsia triacanthos 'inermis'	Skyline' Honeylocust	B&B	2.5" Cal.	For spacing see plan
6	Amelanchier 'Autumn Brilliance'	Serviceberry	B&B, Single	1.5"	For spacing see plan
4	Cercis canadensis	Redbud	B&B, Multi-Stem	1.5" Cal.	For spacing see plan
5	Hydrangea paniculata ' Limelight'	Limelight Hydrangea	Cont., Tree form	5'	For spacing see plan
8	Acer rubrum 'Armstrong'	Armstrong Maple	B&B	2.5" Cal.	For spacing see plan
Evergreen Trees					
21	Picea abies	Norway Spruce	B&B	6'	For spacing see plan
9	Juniperus chinensis 'Blue point'	Blue Point Juniper	Cont.	6'	For spacing see plan
Shrubs					
29	Spiraea x bumalda	Gold Flame Spirea	Cont.	24"	For spacing see plan
7	Hydrangea arborescens 'Annabelle	Annabelle Hydrangea	Cont.	24"	For spacing see plan
49	Juniperus chinensis	Sea Green Juniper	Cont.	24"	For spacing see plan
12	Buxus Green Velvet	Green Velvet Boxwood	Cont.	24"	For spacing see plan
29	Hydrangea paniculata	Bobo' Hydrangea	Cont.	24"	For spacing see plan
Ornamental Grass					
32	Panicum virgatum 'Cheyenne Sky'	Cheyenne Sky Switch Grass	Cont.	#1	For spacing see plan
36	Pennisetum alopecuroides	Fountain Grass	Cont.	#2	For spacing see plan
30	Calamagrostis x acutiflora 'Karl Foerster	Karl Foerster Feather Reed Grass	Cont.	#2	For spacing see plan

GENERAL NOTES

PLANT MATERIAL SHALL BE SELECTED AND INSTALLED TO COMPLY WITH THE FOLLOWING REQUIREMENTS:

1. LANDSCAPE MATERIALS SELECTED SHALL BE APPROPRIATE TO LOCAL GROWING AND CLIMATE CONDITIONS AND FOLLOW THE GUIDELINES SET BY THE AMERICAN STANDARD FOR NURSERY STOCK. ANSI Z60.1 (CURRENT EDITION) AMERICAN ASSOCIATION OF NURSERYMEN, INC.
2. ALL PLANTS SHALL BE OF SPECIMEN QUALITY, SUPERIOR FORM, HEALTHY, VIGOROUS, WELL BRANCHED, DENSELY FOLIATED WHEN IN LEAF, FREE OF DISEASE AND INSECTS EGGS OR LARVAE AND SHALL HAVE WELL-DEVELOPED ROOT SYSTEMS. PLANTS SHALL BE FREE FROM DAMAGE OR CONDITIONS THAT WOULD PREVENT NORMAL GROWTH.
3. ALL PLANTING MATERIAL SHALL BE IN ACCORDANCE WITH THE MOST CURRENT PUBLICATION OF THE AMERICAN STANDARD FOR NURSERY STOCK AS PRODUCED BY THE AMERICAN NATIONAL STANDARDS INSTITUTE, INC.

a. STREET TREES AND SHADE TREES: ALL STREET TREES AND SHADE TREES AT THE TIME OF PLANTING SHALL HAVE A MINIMUM CALIPER OF TWO AND ONE-HALF (2.5) INCHES WHEN MEASURED FROM SIX (6) INCHES ABOVE GROUND LEVEL.

b. ORNAMENTAL TREES: ALL ORNAMENTAL TREES AT THE TIME OF PLANTING SHALL HAVE A MINIMUM CALIPER OF ONE AND ONE-HALF (1.5) INCHES WHEN MEASURED FROM SIX (6) INCHES ABOVE GROUND LEVEL.

c. EVERGREEN TREES: ALL EVERGREEN TREES AT THE TIME OF PLANTING SHALL HAVE A MINIMUM HEIGHT OF SIX (6) FEET.

d. SHRUBBERY: ALL DECIDUOUS AND EVERGREEN SHRUBS AT THE TIME OF PLANTING SHALL HAVE A MINIMUM HEIGHT OF EIGHTEEN (18) INCHES.

e. GROUND COVER/ORNAMENTAL GRASS: ALL GROUND COVER/ORNAMENTAL GRASS AT THE TIME OF PLANTING SHALL HAVE A MINIMUM SIZE OF ONE (1) GALLON, UNLESS OTHERWISE NOTED ON THE LANDSCAPE PLAN.

4. IRRIGATION SYSTEMS SHALL NOT BE INSTALLED IN THE CITY OWNED RIGHT-OF-WAY WITHOUT APPROVAL BY THE BOARD OF PUBLIC WORKS. THE CITY DOES NOT ASSUME RESPONSIBILITY FOR ANY DAMAGE INCURRED TO AN UNPERMITTED IRRIGATION SYSTEM THAT IS CAUSED BY WORK BEING PERFORMED IN THESE AREAS.
5. IT SHALL BE THE RESPONSIBILITY OF THE OWNERS AND THEIR AGENTS TO INSURE PROPER MAINTENANCE OF ALL TREES, SHRUBBERY AND OTHER LANDSCAPING APPROVED AS PART OF THE DEVELOPMENT PLAN/ADLS PLANS. THIS SHOULD CONSIST OF WATERING, FERTILIZING, PROPER MULCHING, CLEARING OF DEBRIS AND WEEDS, MONITORING FOR PESTS AND DISEASE, MOWING, PRUNING, THE REMOVAL AND TIMELY REPLACEMENT OF DEAD, HAZARDOUS OR DYING PLANTS, TREATING FOR DISEASE OR INJURY, OR ANY OTHER SIMILAR ACT(S) WHICH PROMOTES GROWTH, HEALTH, BEAUTY AND THE LIFE OF TREES, SHRUBS, TURF AND OTHER PLANTS.

PLANT MATERIAL CALCULATIONS TABLE

ZONING CLASSIFICATION, GREEN TOUCH PUD	PLANT MATERIAL REQUIREMENTS ARE SET FORTH BY THE TOWN OF MCCORDSVILLE UNIFIED DEVELOPMENT ORDINANCE AND GREENTOUCH PUD	
	REQUIRED	PROVIDED
PERIMETER STREET	15' WIDE GREENSPACE AND 1 CANOPY TREE SPACED AT 50' O.C.	8 TREES
PERIMETER YARDS	NORTH - STAGGERED EVERGREEN TREES @ 20' O.C. EAST - CANOPY TREES SPACED @ 50' O.C.	NORTH - 21 EVERGREEN TREES EAST - EXISTING TREES
BUILDING FOUNDATION	5' WIDE, SHRUBS, ORNAMENTAL GRASS, GROUNDCOVER ON ALL SIDES	5' WIDE, SHRUBS, ORNAMENTAL GRASS, GROUNDCOVER ON ALL SIDES
PARKING LOT INTERIOR	1 CANOPY TREE PER ISLAND	6
PARKING LOT PERIMETER	36" HIGH SHRUB ROW (HALF EVERGREEN) SPACED @ 36" O.C. CANOPY TREES SPACED @ 50' O.C. NO PLANT MATERIAL REQUIRED ALONG THE EAST PARKING LOT EDGE. NO TREES REQUIRED ALONG DEPOT AND RAILROAD ST.	107 SHRUBS
DUMPSTER SCREENING	6' HIGH OPAQUE SCREEN	VEGETATIVE AND ARCHITECTURAL SCREEN

FRITZ ENGINEERING SERVICES
14020 MISSISSINEWA DRIVE
CARMEL, INDIANA 46033
P: 317.324.8695 F: 317.324.8717
www.Fritz-Eng.com

PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS AND ISSUES	DATE	BY
----	----	----

GENERAL NOTES / LEGEND:

"IT'S THE LAW"
811
Know what's below.
Call before you dig.
2 WORKING DAYS BEFORE YOU DIG.

PROJECT:
Green Touch Services
GREEN TOUCH MCCORDSVILLE

PROJECT LOCATION:
6312 RAILROAD ST
MCCORDSVILLE, INDIANA 46055
HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE:
NE 1/4, S26, T17N, R5E

CLIENT:
MacDOUGALL PIERCE CONSTRUCTION
12720 FORD DRIVE
FISHERS, IN 46038

PLAN DATE: 3/8/2024

DESIGN:	CHECK:	DRAWN:
AF	AF	KG

PROJECT NO. 2308005

SHEET NAME
LANDSCAPE PLAN

SHEET NO.
L101