

# PATCH LINVILLE WAY, LLC PERMIT PLANS

40 LINVILLE WAY FRANKLIN, IN

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# PROJECT DESCRIPTION

This project includes the following: Additional parking for the existing building

Required service utilites

### LAND DESCRIPTION

A portion of the property of Maurice Fred Linville and Helen Ann Linville

Township, Johnson County, Indiana, more particularly described as follows:

Commencing at the Southwest Corner of the Southeast Quarter of said Section 2, Township 12 North, Range 4 East;

thence North 00 degrees 30 minutes 09 seconds West (Basis of Bearings: Indiana State Plane Coordinates, East Zone, NAD 83) 1185.11 feet along the West Line of said Southeast Quarter to the northwestern corner of the tract of land granted to Maurice Fred Linville and Helen Ann Linville (recorded as Deed Book 160, page 303 in the Office of the Recorder of Johnson County Indiana) and the southwestern corner of the tract of land granted to Raymond Eugene Canary and Terry Lee Canary (recorded as Instrument Number 2007-012267 in said Recorder's Office); thence North 89 degrees 09 minutes 29 seconds East 40.00 feet along the common line of said tracts to a point lying 40.00 feet (measured easterly in a perpendicular direction) from the West Line of said Southeast Quarter) to the northeastern corner of the 3.805-acre proposed eastern right-of-way of Graham Road ("proposed right-of-way") as described in Exhibits A & B, prepared for the City of Franklin, Indiana by Crossroads Engineers, PC, being the POINT OF BEGINNING of this description; thence continue North 89 degrees 09 minutes 29 seconds East 840.19 feet along said

Southeast Quarter to a northern line of said proposed right-of-way (all of the remaining courses are along said proposed right-of-way); thence South 89 degrees 09 minutes 29 seconds West 644.76 feet; thence North 83 degrees 26 minutes 06 seconds West 100.84 feet; thence South 89 degrees 09 minutes 29 seconds West 70.36 feet; thence North 45 degrees 40 minutes 20 seconds West 35.25 feet; thence North 00 degrees 30 minutes 09 seconds West 644.45 feet parallel with the West Line of said Southeast Quarter to the POINT OF BEGINNING, containing 13.112 acres, more or less.

# CONTACT INFORMATION

PATCH LINVILLE WAY, LLC ALEX CHITTENDEN 400 ALPHA DRIVE

> (317) 563-2572 RUNNEBOHM CONSTRUCTION COMPANY

KRIS LASURE 144 EAST RAMPART STREET

**VERIDUS GROUP** Civil Engineer:

6280 N. SHADELAND AVE., SUITE A,

(317) 598-6647

Part of Deed Book 160, page 303

A part of the Southeast Quarter of Section 2, Township 12 North, Range 4 East of the Second Principal Meridian, Franklin

WESTFIELD, IN 46074

SHELBYVILLE, IN 46176 (317) 563-2572

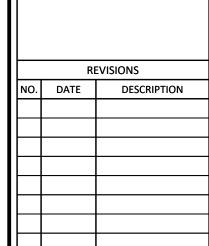
TIM JENSEN, PE

INDIANAPOLIS, IN 46220

Contractor:

# **UTILITY STATEMENT**

The underground utilities shown have been located from field survey information and existing drawings. The surveyor makes no guarantees that the underground utilities comprise all such utilities in the area, either in-service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated although the surveyor does certify that they are located as accurately as possible from information available. The surveyor has not physically located the underground utilities.

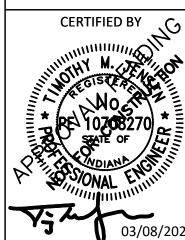


LINVILLE

**PATCH** 

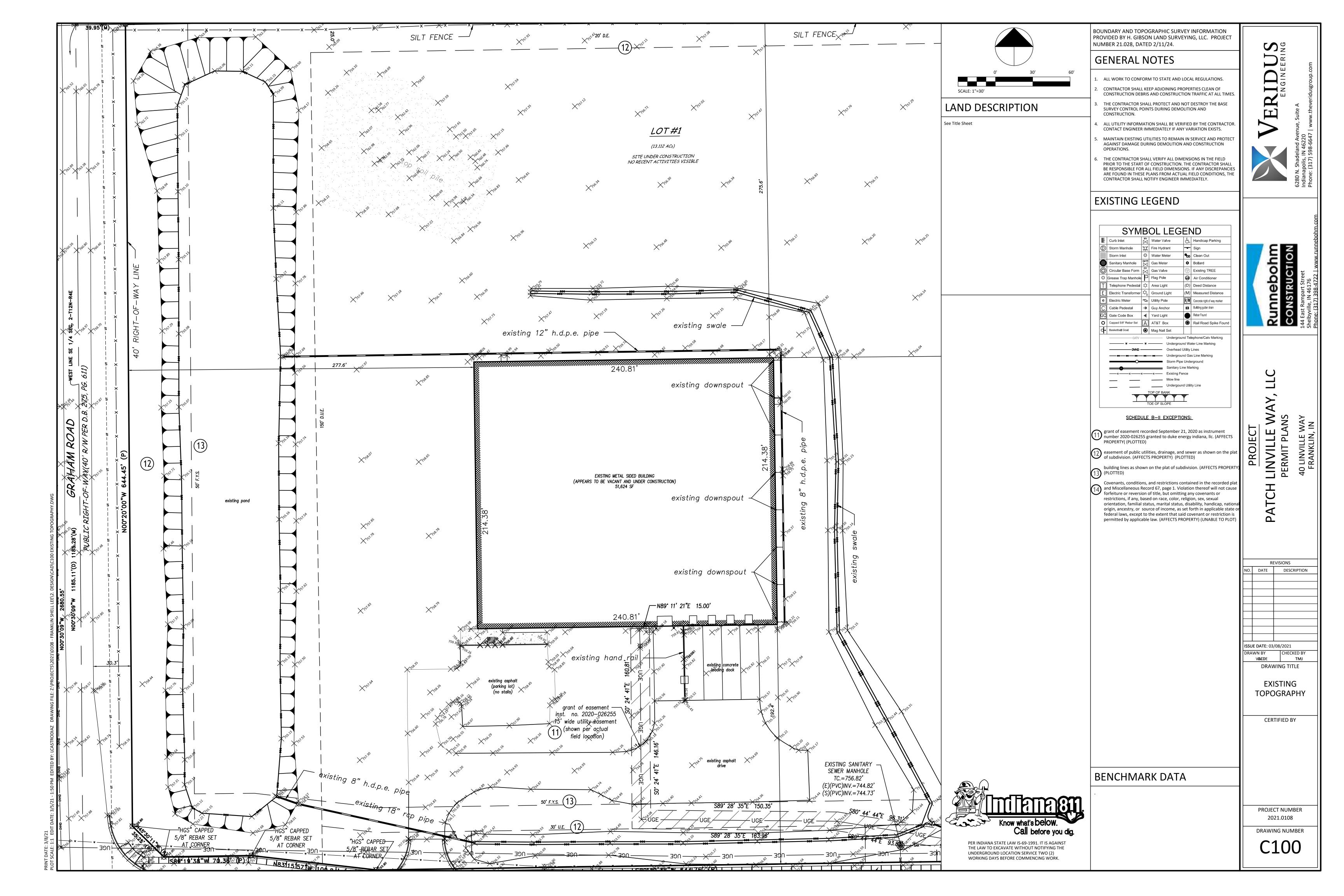
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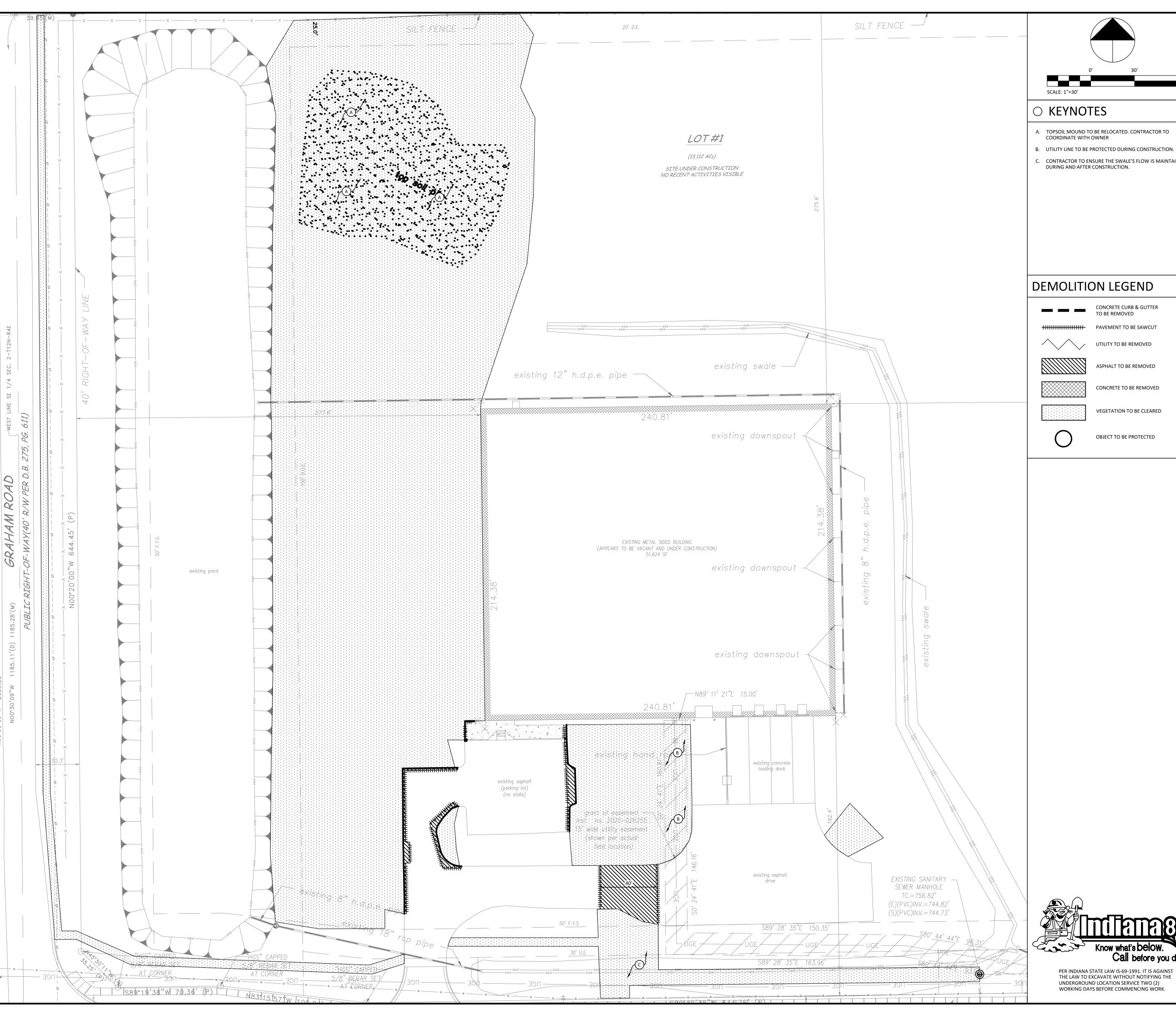
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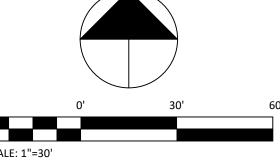


PROJECT NUMBER 2021.0108

DRAWING NUMBER C001







- CONTRACTOR TO ENSURE THE SWALE'S FLOW IS MAINTAINED DURING AND AFTER CONSTRUCTION.

TO BE REMOVED

ASPHALT TO BE REMOVED

CONCRETE TO BE REMOVED

OBJECT TO BE PROTECTED

BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY H. GIBSON LAND SURVEYING, LLC. PROJECT NUMBER 21.028, DATED 2/11/24.

# **GENERAL NOTES**

- THE DEMOLITION PLAN IS BASED ON INFORMATION PROVIDED ON THE TOPOGRAPHIC SURVEY. CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND COMPARING THE DOCUMENTS TO THE FIELD CONDITIONS. IF DISCREPANCIES OCCUR, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD.
- THE CONTRACTOR SHALL REMOVE AND DISPOSE ALL EXISTING STRUCTURES, STONE, CONCRETE AND PAVEMENT OFF SITE UNLESS
- NOTED TO REMAIN ON THE CONTRACT DRAWINGS. THE CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION. IF A MONUMENT IS MOVED OR DAMAGED, THE CONTRACTOR SHALL IMMEDIATELY
- THIS SECTION REQUIRES THE REMOVAL AND DISPOSAL, OFF SITE, OF THE FOLLOWING:
- a. SPECIFIED OBJECTS
- b. VEGETATION WITHIN THE WORK AREA.

NOTIFY THE ENGINEER AND SURVEYOR OF RECORD.

- . CONTRACTOR SHALL SUBMIT THE FOLLOWING IN ACCORDANCE WITH CONDITIONS OF THE CONTRACT AND APPROPRIATE SPECIFICATION
- a. A DETAILED SEQUENCE AND SCHEDULE OF DEMOLITION AND REMOVAL WORK TO BE COMPLETED.

# 6. JOB CONDITIONS

- a. SALVAGED MATERIALS: ITEMS OF SALVAGEABLE VALUE TO CONTRACTOR MAY BE REMOVED FROM SITE AS WORK PROGRESSES. TRANSPORT SALVAGED ITEMS FROM THE SITE AS THEY ARE REMOVED.
- b. STORAGE OR SALE OF REMOVED ITEMS WILL NOT BE
- PERMITTED ON SITE. c. EXPLOSIVES: USE OF ANY TYPE OF EXPLOSIVES WILL NOT BE
- PERMITTED. d. TRAFFIC: CONDUCT DEMOLITION OPERATIONS AND REMOVAL OF DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS AND OTHER ADJACENT OCCUPIED AND USED
- e. DO NOT CLOSE OR OBSTRUCT ROADS, STREETS, WALKS OR OTHER OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM THE LOCAL AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS, IF REQUIRE BY GOVERNING AUTHORITIES.
- f. PROTECTIONS: ENSURE SAFE PASSAGE OF PERSONS AROUND AREAS OF DEMOLITION, CONDUCT OPERATIONS TO PREVENT DAMAGE TO ADJACENT BUILDINGS, STRUCTURES, AND OTHER FACILITIES AND INJURY TO PERSONS.
- g. DAMAGES: PROMPTLY REPAIR ANY DAMAGES CAUSED TO ADJACENT FACILITIES BY DEMOLITION OPERATIONS.
- h. UTILITY SERVICES: MAINTAIN EXISTING UTILITIES TO STAY IN SERVICE AND PROTECT AGAINST DAMAGE DURING DEMOLITION OPERATIONS. DISCONNECT, CAP AND REMOVE UTILITY SERVICES PER LOCAL REQUIREMENTS. DO NOT START DEMOLITION WORK UNTIL UTILITY DISCONNECTIONS HAVE BEEN COMPLETED TO THE SATISFACTION OF LOCAL UTILITIES. (AS REQUIRED)

### DEMOLITION

- a. BELOW-GRADE CONSTRUCTION: DEMOLISH FOUNDATION WALLS AND BELOW-GRADE CONSTRUCTION, INCLUDING CONCRETE SLABS TO A DEPTH OF NOT LESS THAN 48 INCHES BELOW LOWEST FOUNDATION LEVEL.
- b. FILLING VOIDS: COMPLETELY FILL BELOW-GRADE AREAS AND VOIDS RESULTING FROM DEMOLITION. BACK FILL TO BE COMPACTED TO 90% STANDARD PROCTOR OR 98% ON NEW STRUCTURES.
- 8. DISPOSAL OF DEMOLISHED MATERIALS
- a. GENERAL: REMOVE WEEKLY FROM SITE ACCUMULATED DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS.
- b. REMOVAL: TRANSPORT MATERIALS REMOVED FROM DEMOLITION OPERATIONS AND LEGALLY DISPOSE OF OFF-SITE.
- TEMPORARY TRAFFIC CONTROL DURING DEMOLITION AND CONSTRUCTION SHALL CONFORM TO APPLICABLE LOCAL AND STATE

# **EXISTING LEGEND**

#### SYMBOL LEGEND | ₩ | Water Valve Handicap Parking (D) Storm Manhole Fire Hydrant Sanitary Manhole Gas Meter Bollard Circular Base Form | GV | Gas Valve Existing TREE ☐ Grease Trap Manhole ☐ Flag Pole Air Conditioner Telephone Pedestal 🌣 Area Light (D) Deed Distance E Electric Transformer 🗘 Ground Light | Electric Meter | 🕰 | Utility Pole Building gutter drain C Cable Pedestal - Guy Anchor O Capped 5/8" Rebar Set AT&T Box Rail Road Spike Found Basketball Goal Mag Nail Set

BENCHMARK DATA



PER INDIANA STATE LAW IS-69-1991. IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2)

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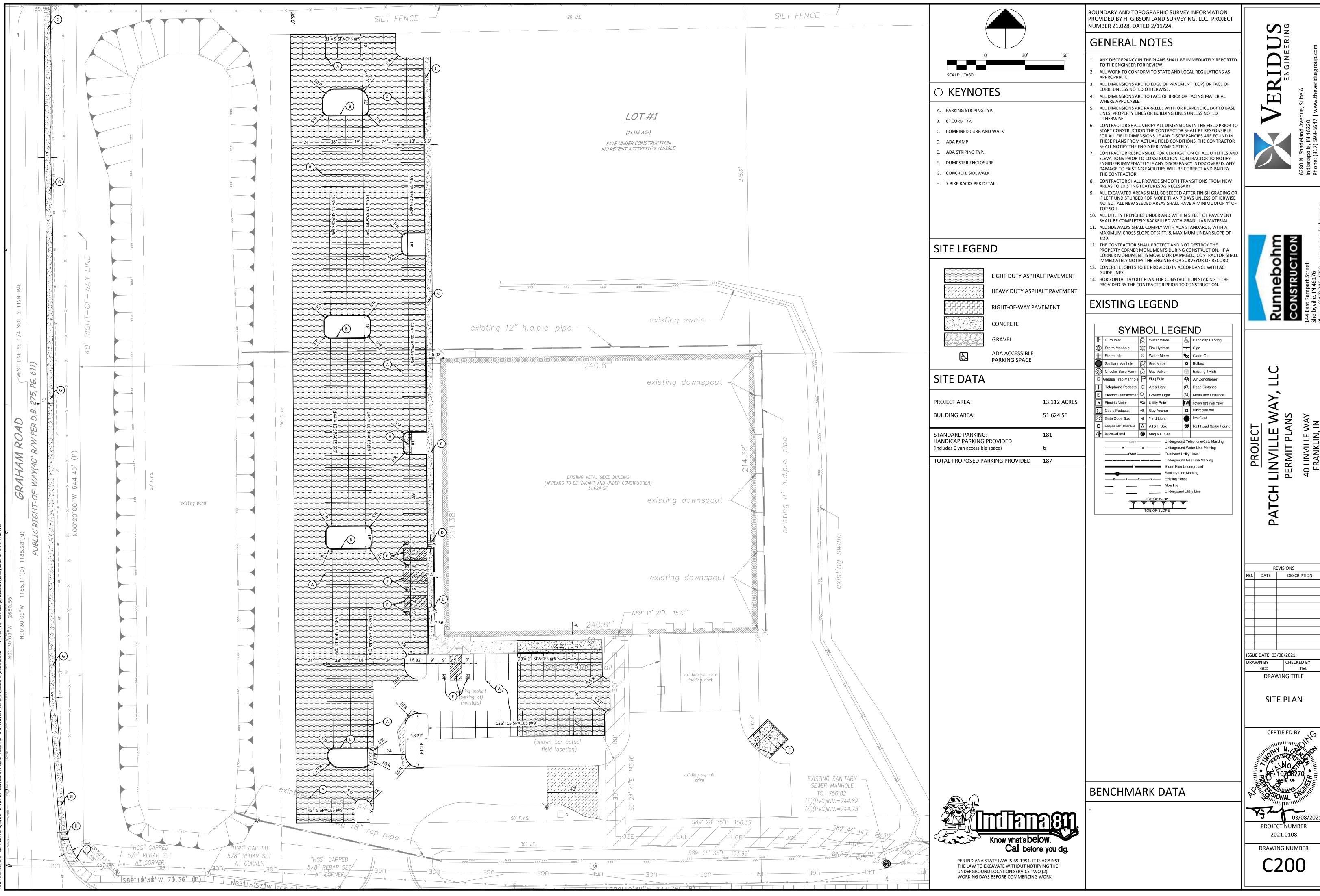
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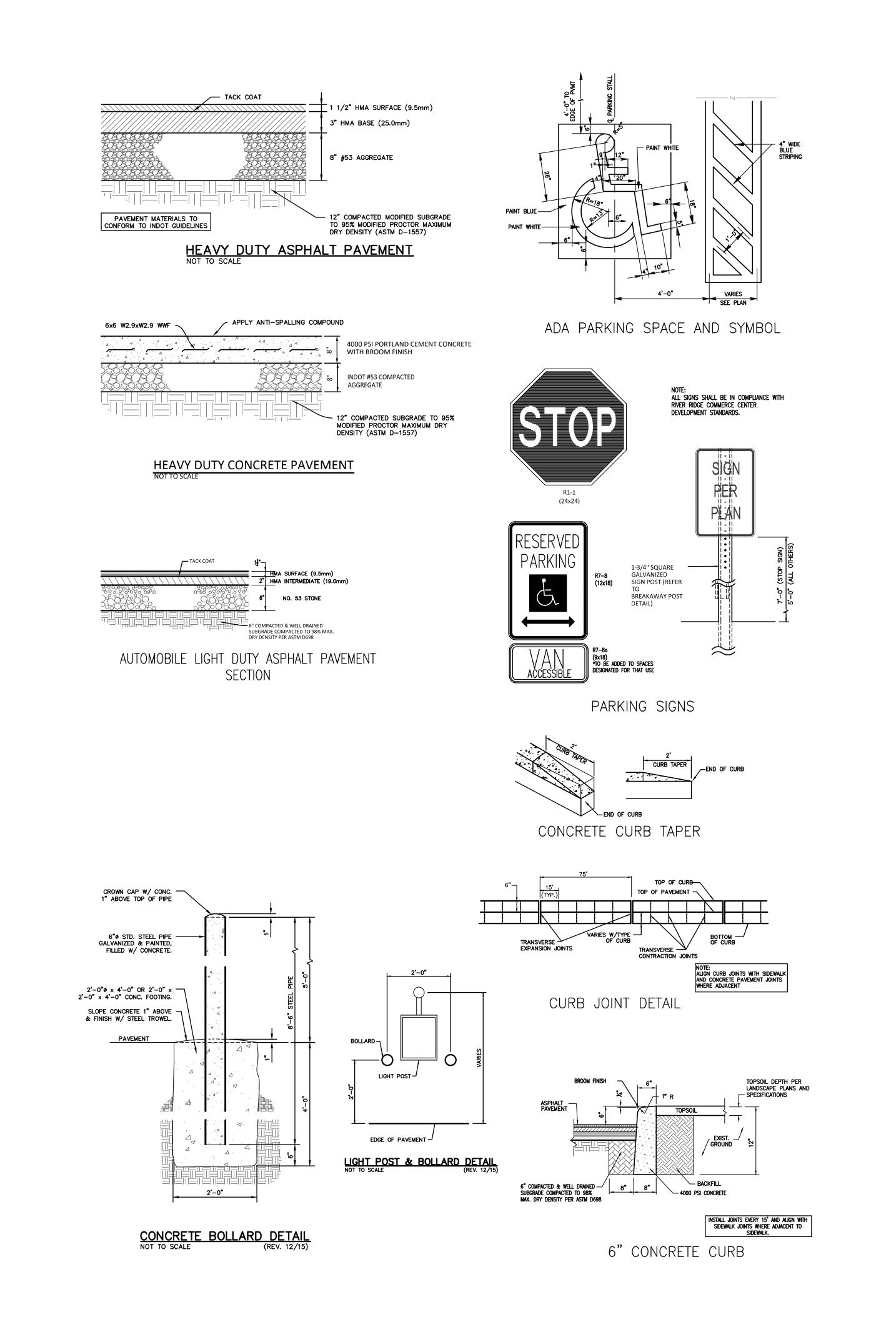
DEMOLITION PLAN

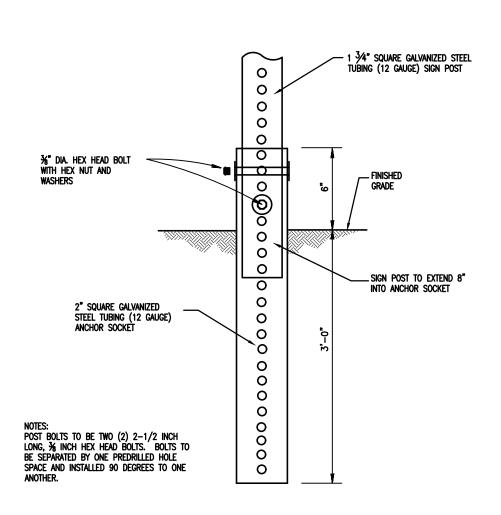
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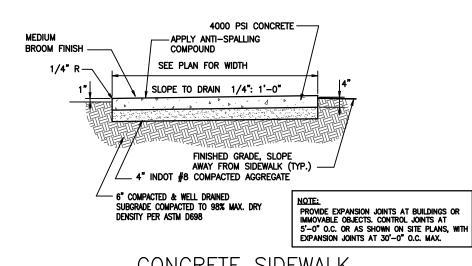
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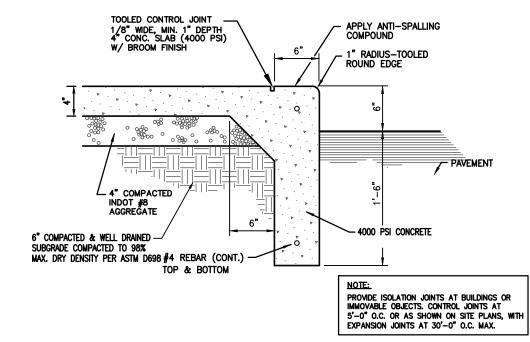




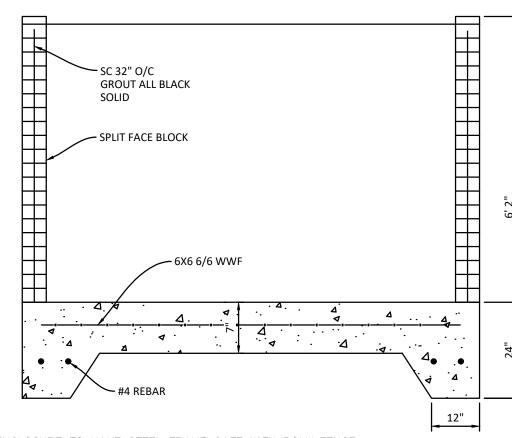
BREAKAWAY POST



CONCRETE SIDEWALK

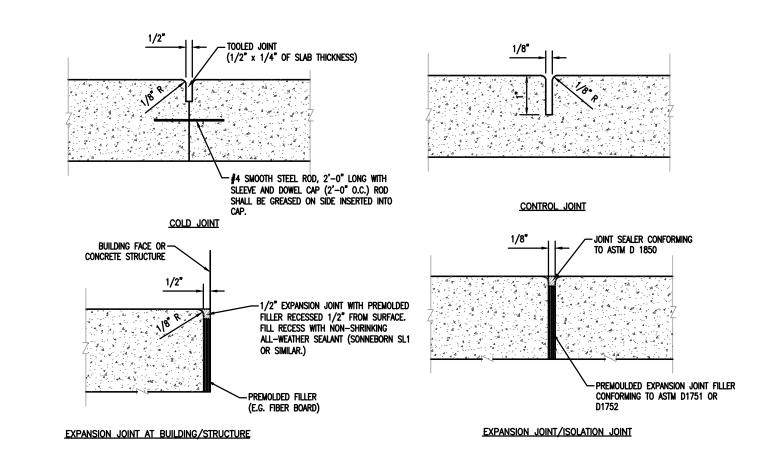


COMBINED CONCRETE CURB AND WALK



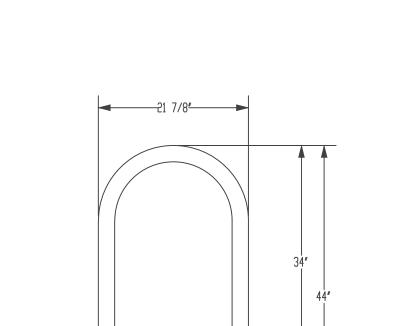
NOTE: ENCLOSURE TO HAVE STEEL FRAME GATE WITH POLY FENCE

**DUMPSTER ENCLOSURE** NOT TO SCALE

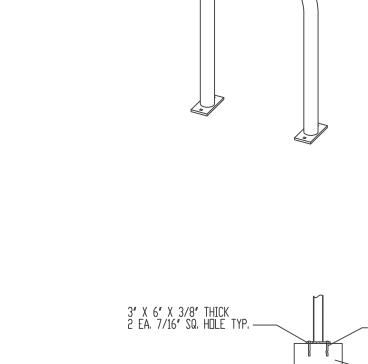


TYPICAL CONCRETE JOINT DETAILS

Ø 2 3/8" STEEL TUBING-



GRADE



MADRAX DIVISION

GRABER MANUFACTURING, INC

□ SURFACE FLANGE M□UNT (SF)

P(800) 448-7931, P(608) 849-1080, F(608) 849-1081 WWW.MADRAX.CDM, E-MAIL: SALES@MADRAX.CDM

PRODUCT: U238-IG(SF)
DESCRIPTION: 'U' BIKE RACK
2 BIKE, SURFACE MOUNT ©2018 GRABER MANUFACTURING, INC. ALL PROPRIETARY RIGHTS RESERVED.

**──**19 1/2⁴1/2″**─**►

- 1. INSTALL BIKE RACKS ACCORDING TO MANUFACTURER'S SPECIFICATIONS 2. CONSULTANT TO SELECT COLOR (FINISH), SEE MANUFACTURER'S SPECIFICATIONS. 3. SEE SITE PLAN FOR LOCATION OR CONSULT OWNER.
- SECTION A-A SECTION B-B NOTES: SIDEWALK CURB RAMP TYPE K 6 See Standard Drawing E 604-SWCR-02 9 Curb optional. Shall be used when necessary based on field conditions. 7 See Standard Drawing E 604-SWCR-02 for details of detectable warnings surface. 10. See Standard Drawing E 604-SWCR-02 for typical ramp construction detail. 8 See Standard Drawing E 604-SWCR-02 for alternate curb construction. 11. See Standard Drawing E 604-SWCR-01 and -02 for Location Plan and General Notes respectively.

ADA ACCESSIBLE RAMP, TYPE 'K'

NOTE: DETECTABLE WARNING STRIP NOT REQUIRED FOR PRIVATE DRIVE



Sunnebohm SONSTRUCTION

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**PROJECT** 

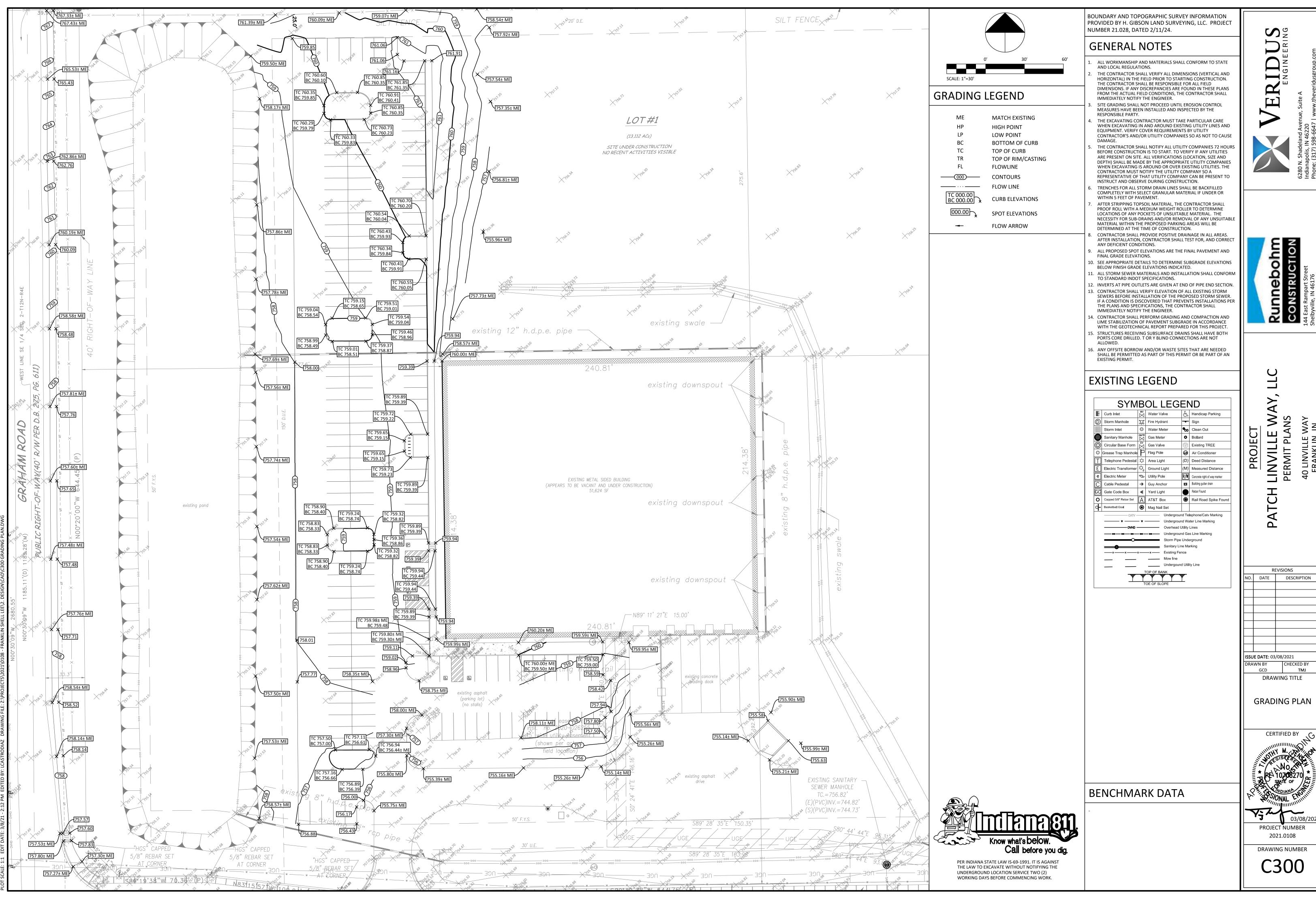
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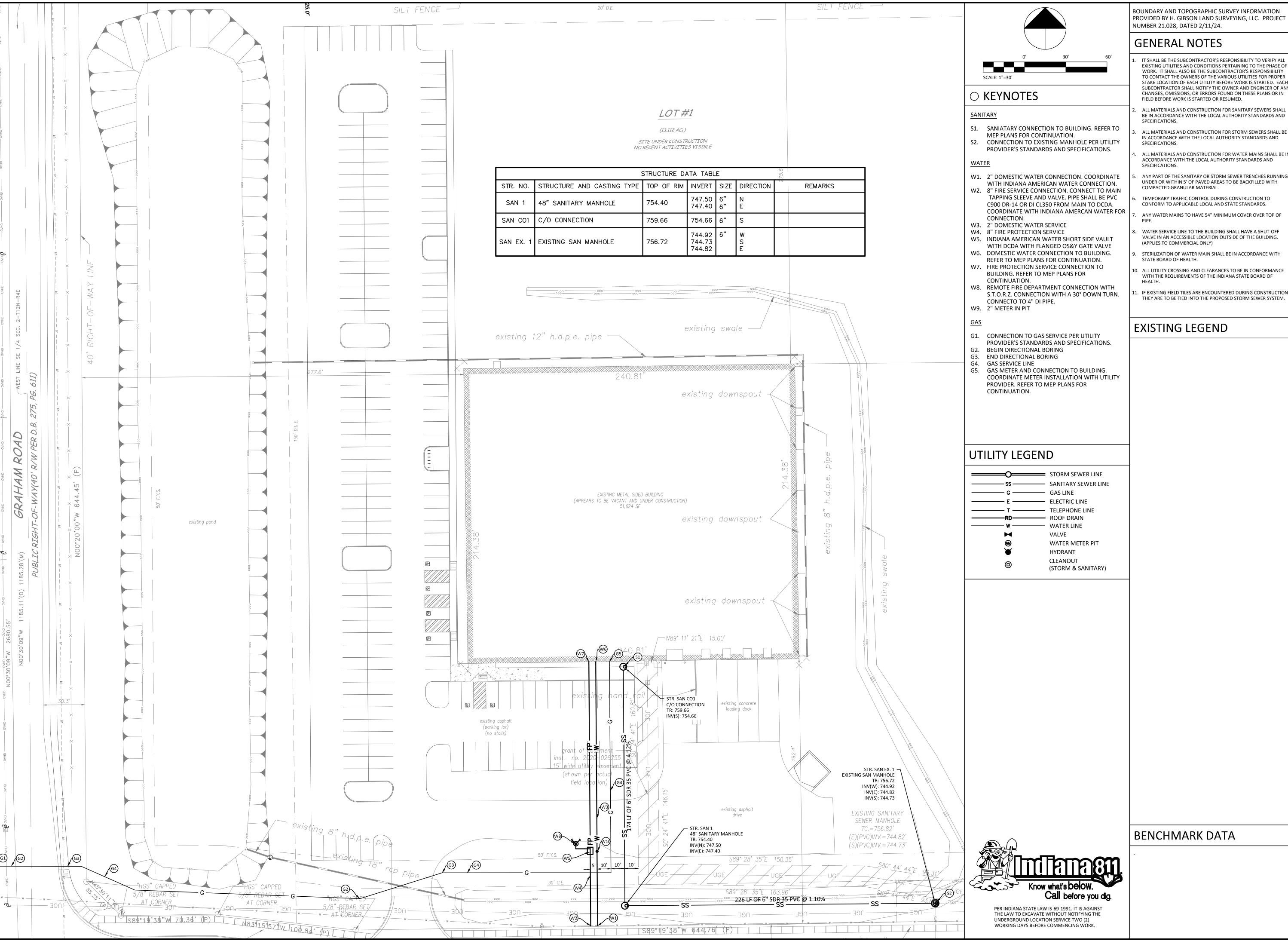
SITE DETAILS

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C250





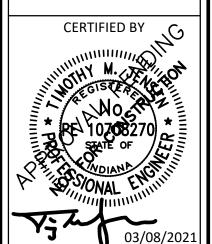
BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY H. GIBSON LAND SURVEYING, LLC. PROJECT

- IT SHALL BE THE SUBCONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING UTILITIES AND CONDITIONS PERTAINING TO THE PHASE OF WORK. IT SHALL ALSO BE THE SUBCONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNERS OF THE VARIOUS UTILITIES FOR PROPER STAKE LOCATION OF EACH UTILITY BEFORE WORK IS STARTED. EACH SUBCONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF ANY CHANGES, OMISSIONS, OR ERRORS FOUND ON THESE PLANS OR IN FIELD BEFORE WORK IS STARTED OR RESUMED.
- ALL MATERIALS AND CONSTRUCTION FOR SANITARY SEWERS SHALL BE IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS AND
- ALL MATERIALS AND CONSTRUCTION FOR STORM SEWERS SHALL BE IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS AND
- ALL MATERIALS AND CONSTRUCTION FOR WATER MAINS SHALL BE IN
- COMPACTED GRANULAR MATERIAL.
- CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
- VALVE IN AN ACCESSIBLE LOCATION OUTSIDE OF THE BUILDING. (APPLIES TO COMMERCIAL ONLY)
- STERILIZATION OF WATER MAIN SHALL BE IN ACCORDANCE WITH
- ALL UTILITY CROSSING AND CLEARANCES TO BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE INDIANA STATE BOARD OF
- 1. IF EXISTING FIELD TILES ARE ENCOUNTERED DURING CONSTRUCTION THEY ARE TO BE TIED INTO THE PROPOSED STORM SEWER SYSTEM.

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UTILITY PLAN

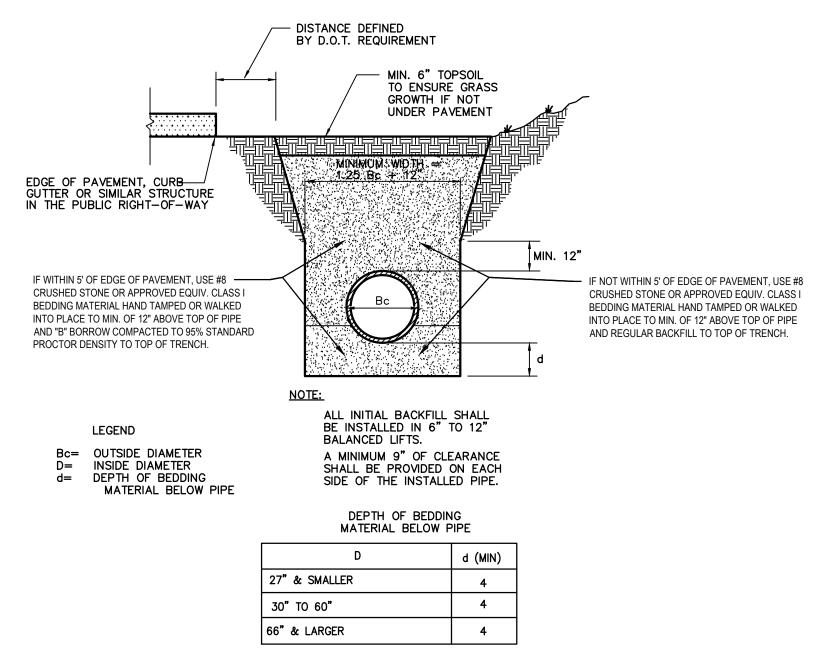
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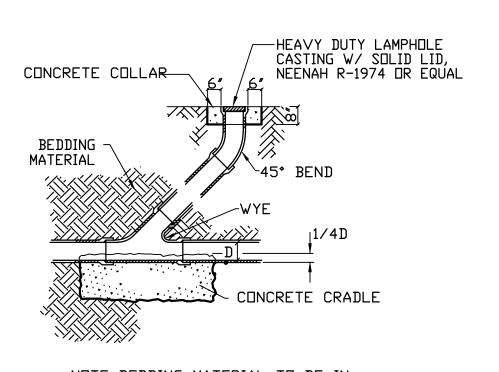
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NOTE: BEDDING MATERIAL TO BE IN ACCORDANCE WITH PLASTIC PIPE (PVC & HDPE) BEDDING DETAIL STORM SEWER & SANITARY SEWER CLEANOUT

NOT TO SCALE

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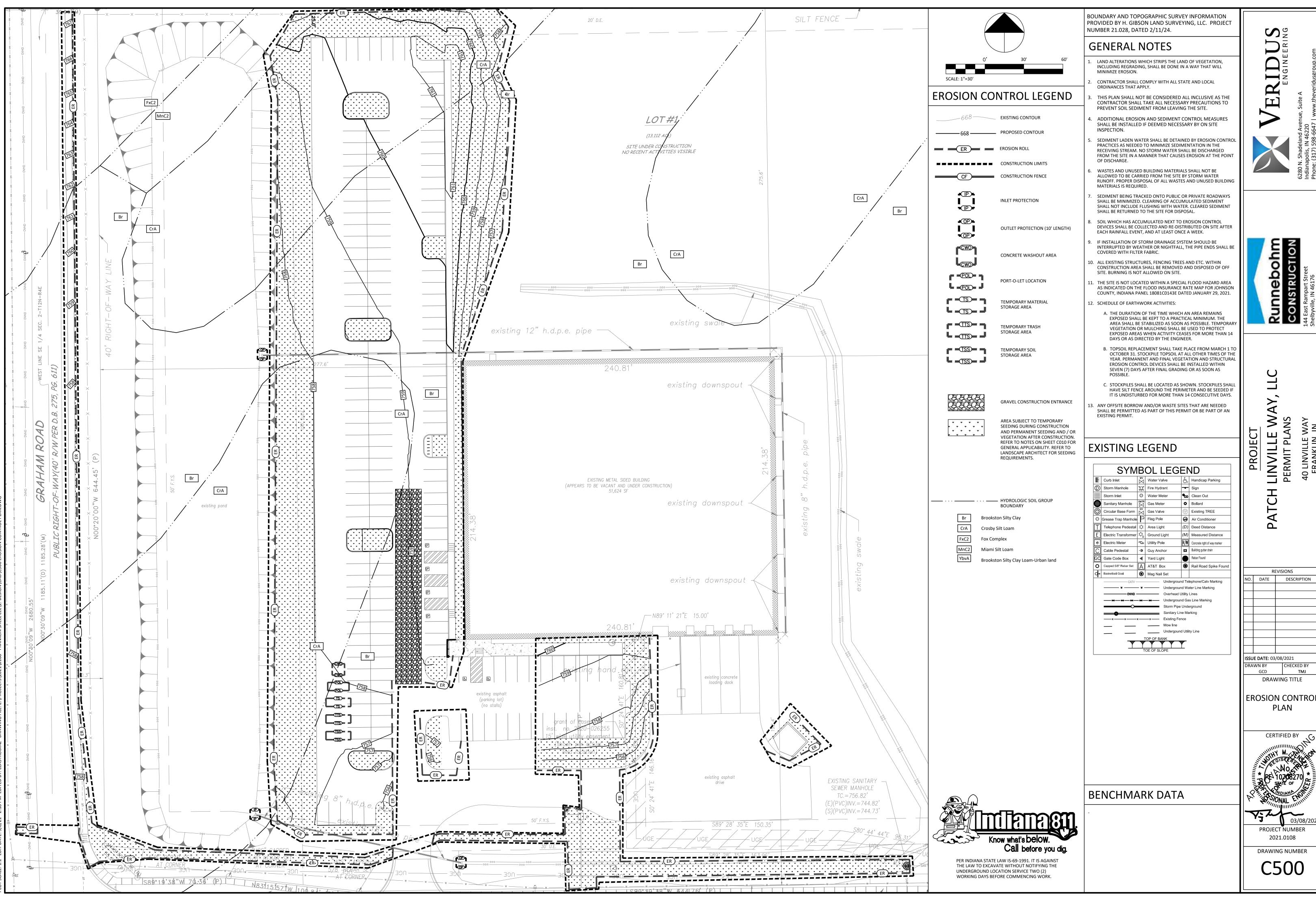
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**UTILITY DETAILS** 

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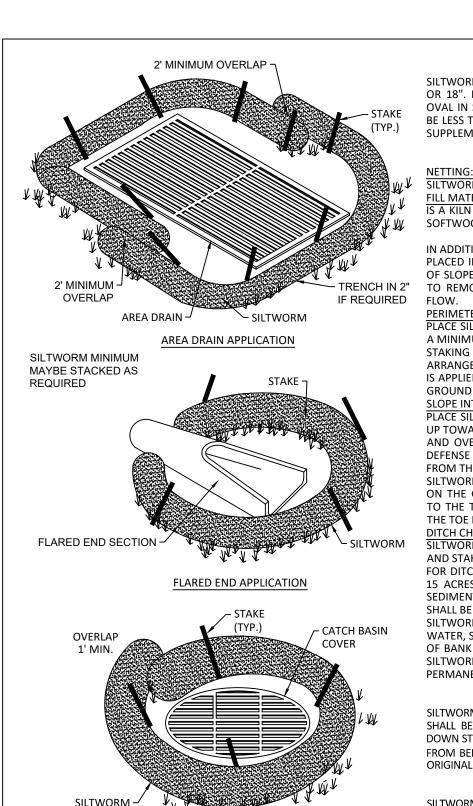
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EROSION CONTROL

#### **EROSION CONTROL NOTES:**

- 1. CONSTRUCTION ACTIVITY SHALL CONSIST OF UTILITIES, GRADING, AND STORM SEWER SYSTEM.
- PRELIMINARY CONSTRUCTION SCHEDULE: CONSTRUCTION SHALL BEGIN IN THE SPRING 2021. COMPLETION OF THE PROJECT IS ANTICIPATED IN 2023. THIS SCHEDULE IS SUBJECT TO CHANGE.
- 3. LAND ALTERATION WHICH STRIPS THE LAND OF VEGETATION, INCLUDING REGRADING, SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION.
- 4. CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
- 5. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
- ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
- SEDIMENT LADEN WATER SHALL BE DETAINED BY EROSION CONTROL PRACTICES AS NEEDED TO MINIMIZE SEDIMENTATION IN THE RECEIVING STREAM. NO STORM WATER SHALL BE DISCHARGED FROM THE SITE IN A MANNER THAT CAUSES EROSION AT THE POINT OF DISCHARGE.
- WASTES AND UNUSED BUILDING MATERIALS SHALL NOT BE ALLOWED TO BE CARRIED FROM THE SITE BY STORM WATER RUNOFF. PROPER DISPOSAL OF ALL WASTES AND UNUSED BUILDING MATERIALS IS
- SEDIMENT BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS SHALL BE MINIMIZED. CLEARED SEDIMENT SHALL BE RETURNED TO THE SITE FOR DISPOSAL.
- 10. SOIL WHICH HAS ACCUMULATED NEXT TO EROSION CONTROL DEVICES SHALL BE COLLECTED AND RE-DISTRIBUTED ON SITE AFTER EACH RAINFALL EVENT. AND AT LEAST ONCE A WEEK.
- 11. IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE SURROUNDED BY ROCK DONUTS.
- 12. EXISTING VEGETATION SHALL BE PRESERVED IN AREAS NOT DISTURBED BY CONSTRUCTION ACTIVITY.
- 13. THERE ARE NO BORROW AREAS OTHER THAN THOSE DESIGNATED.
- 14. ALL APPLICABLE EROSION CONTROL MEASURES SHALL BE PLACED BEFORE ANY LAND DISTURBING ACTIVITIES. 15. SCHEDULE OF EROSION CONTROL ACTIVITIES:
- a. INSTALL INLET PROTECTION AROUND INLETS IMMEDIATELY UPON COMPLETION OF THE STRUCTURE. REMOVE INLET PROTECTION FOR PAVING OPERATION. REPLACE INLET PROTECTION AFTER PAVING IS COMPLETE. INLET PROTECTION SHALL REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED ON SEEDED
- AREAS BEHIND THE CURB. b. THE DURATION OF TIME WHICH AN AREA REMAINS EXPOSED SHALL BE KEPT TO A PRACTICAL MINIMUM. THE AREA SHALL BE STABILIZED AS SOON AS POSSIBLE. TEMPORARY VEGETATION OR MULCHING SHALL BE USED TO PROTECT EXPOSED AREAS IF PERMANENT VEGETATION CANNOT BE SEEDED WITHIN 14 DAYS OR ACTIVITY CEASES FOR MORE THAN 21 DAYS OR AS DIRECTED BY THE ENGINEER.
- c. TOPSOIL REPLACEMENT SHALL TAKE PLACE FROM MARCH 1 TO OCTOBER 31. STOCKPILE TOPSOIL AT ALL OTHER TIMES OF THE YEAR. PERMANENT AND FINAL VEGETATION AND STRUCTURAL EROSION CONTROL DEVICES SHALL BE INSTALLED WITHIN SEVEN (7) DAYS AFTER FINAL GRADING OR AS SOON AS POSSIBLE.
- 16. APPLY FERTILIZER AT A RATE ADEQUATE TO PROVIDE 1 LB. OF ACTUAL NITROGEN PER 1,000 SQUARE FEET. USE COMMERCIAL-GRADE COMPLETE FERTILIZER OF NEUTRAL CHARACTER CONSISTING OF FAST AND SLOW RELEASE NITROGEN, 50 PERCENT DERIVED FROM NATURAL ORGANIC SOURCES OF UREA-FORM, PHOSPHOROUS, AND IN FOLLOWING COMPOSITION:
- a. FERTILIZER FOR LAWNS: PROVIDE A FAST RELEASE FERTILIZER WITH A COMPOSITION OF 1 LB PER 1,000 SQ. FT. OF ACTUAL NITROGEN, 4 PERCENT PHOSPHOROUS, AND 2 PERCENT POTASSIUM BY WEIGHT.
- b. SLOW-RELEASE FERTILIZER FOR TREES AND SHRUBS: GRANULAR FERTILIZER CONSISTING OF 50 PERCENT WATER-INSOLUBLE NITROGEN, PHOSPHOROUS AND POTASSIUM MADE UP OF A COMPOSITION BY WEIGHT OF 5 PERCENT.
- 18. ADD LIME TO TOPSOIL TO OBTAIN A pH RANGE OF 6.0 TO 7.0. LIME SHALL BE ASTM C 602, CLASS T, AGRICULTURAL LIMESTONE CONTAINING A MINIMUM OF 80 PERCENT CALCIUM CARBONATE EQUIVALENT, WITH A MINIMUM 99 PERCENT PASSING A NO. 8 (2.36 mm) SIEVE AND A MINIMUM 75 PERCENT PASSING A NO. 50 (250 MICROMETER) SIEVE.
- 19. CONSTRUCTION TRAFFIC SHALL ENTER THE SITE AT THE GRAVEL CONSTRUCTION ENTRANCE AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN.
- 20. CONTRACTOR TO SEED ALL DISTURBED AREAS. FINISH GRADE TO BE SEED AND STRAW.
- 21. CONTRACTOR SHALL MONITOR TRUCK WASHING AND SEDIMENT TRACKING ONTO STREETS. STREET CLEANING WILL BE REQUIRED BY OWNER IF ROADWAYS HAVE SOIL FROM THE SITE TRACKED ONTO THEM.
- 24. THERE SHALL BE NO DIRT, DEBRIS OR STORAGE OF MATERIALS IN THE STREET.
- 25. PORTABLE TOILETS MUST BE ANCHORED



CATCH BASIN APPLICATION

SILTWORM

P.O. BOX 691, ST JOHN, IN 46373

PHONE (219) 488-7240, www.siltworm.com

# SILTWORM GENERAL NOTES

SILTWORM ARE SUPPLIED AND INSTALLED IN DIAMETERS OF 8", 12", OR 18". DIAMETER TOLERANCES ARE 2". SILTWORM WILL BECOME OVAL IN SHAPE WHEN IN PLACE, THUS THE INSTALLED HEIGHT WILL BE LESS THAN NOMINAL DIAMETER. SEE WWW.SILTWORM.COM FOR SUPPLEMENTARY INSTALLATION INFORMATION.

#### **MATERIAL SPECIFICATIONS**

SILTWORM IS A TUBULAR KNIT HIGH DENSITY POLYPROPYLENE.

IS A KILN DRIED MATERIAL CONSISTING OF WOOD CHIPS, BARK FREE SOFTWOOD, THAT IS 100% RECYCLED. **APPLICATIONS** IN ADDITION TO THE APPLICATIONS SHOWN, SILTWORM CAN ALSO BE PLACED IN DITCHES OR AT THE TOP, ON THE FACE, OR AT THE TOW

OF SLOPES AS SEDIMENT TRAPPING DEVICES. THEY CAN ALSO SERVE TRENCH IN 2" TO REMOVE SEDIMENT FROM RUNOFF AND RELEASE IT AS SHEET PLACE SILTWORM DIRECTLY ON TOP OF GRADE, AND OVERLAP ENDS

A MINIMUM OF 6". SITE PREPARATION IS MINIMAL, AND THERE IS NO STAKING OR TRENCHING REQUIREMENT FOR GRADES UNDER 12%. ARRANGE THE SILTWORM PERIMETER CONTROL IN A MANNER THAT IS APPLIED PERPENDICULAR TO SHEET FLOW. MAINTAIN CONSISTENT GROUND CONTACT.

SLOPE INTERRUPTION: PLACE SILTWORM PERPENDICULAR TO SHEET FLOW AND CURL ENDS UP TOWARD THE TOP OF THE SLOPE. STAKE THE SILTWORM EVERY 6', AND OVERLAP THE ENDS BETWEEN 1 TO 2 FEET. PLACE A LINE OF DEFENSE AT THE TOP OF THE SLOPE, AND ANOTHER WITHIN 10'

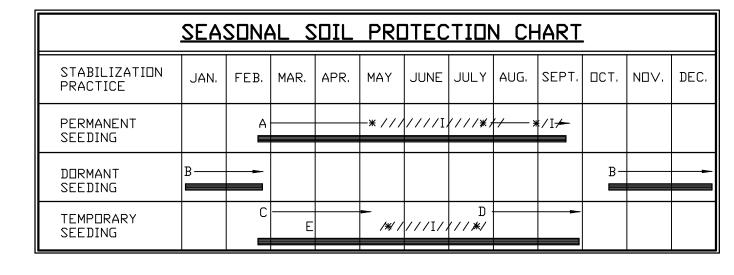
FROM THE TOE OF THE SLOPE. SILTWORM INSTALLATION ON A SLOPE SHALL BE PLACED ALONG OR ON THE GROUND CONTOUR. WHERE POSSIBLE SILTWORM APPLIED TO THE TOE OF A SLOPE SHOULD BE PLACED 10 FEET AWAY FROM THE TOE IN ORDER TO PROVIDE SEDIMENT STORAGE.

SILTWORM SHOULD BE INSTALLED WITH A SLIGHT ENTRENCHMENT, AND STAKED EVERY 4' IN THE DITCH CHECK APPLICATION. FOR DITCH APPLICATIONS, THE MAXIMUM DRAINAGE ARE SHALL BE 15 ACRES, AT SITES WHICH OUTFALL TO EXCEPTIONAL WATER OR SEDIMENT-IMPAIRED STREAMS, THE MAXIMUM DRAINAGE AREA SHALL BE LIMITED TO 10 ACRES.

SILTWORM SHALL BE PLACED PERPENDICULAR TO THE FLOW OF WATER, SILTWORM SHALL CONTINUE UP THE SIDE SLOPES TO THE UP OF BANK OR A MAXIMUM OF 3 FEET ABOVE THE INSTALLED HEIGHT SILTWORM SHALL REMAIN IN PLACE UNTIL ALL UPSTREAM AREAS ARE PERMANENTLY STABILIZED.

MAINTENANC SILTWORMS SHALL BE INSPECTED AFTER EACH RUNOFF EVENT AND SHALL BE REMOVED AND REPLACED IF SIGNS OF UNDERCUTTING OR DOWN STREAMING RILLS ARE OBSERVED. SEDIMENT SHALL BE REMOVED FROM BEHIND THE SILTWORM WHEN IT HAS ACCUMULATED TO ½ THE ORIGINAL HEIGHT OF THE STRUCTURE.

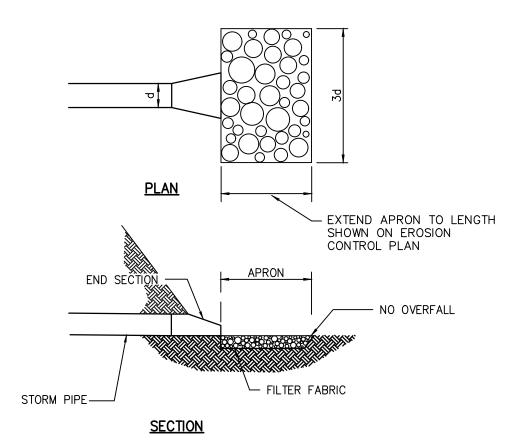
SILTWORM SHALL BE REMOVED FROM SLOPES, DITCHES, PERIMETER, OR INLETS AFTER STABILIZATION IS COMPLETE. THIS MAY BE ACCOMPLISHED BY CUTTING THE SOCK OPEN AND SPREADING THE FILL MATERIAL ON THE SITE. ALL NON-BIODEGRADABLE MATERIALS SHALL BE REMOVED. SILTWORMS APPLIED IN DITCHES SHALL BE COMPLETELY REMOVED.



- A = KENTUCKY BLUEGRASS 100 LBS./ACRE; CREEPING RED FESCUE 100 LBS./ACRE; HYDROSEEDED
- B = KENTUCKY BLUEGRASS 120 LBS./ACRE; CREEPING RED FESCUE 120 LBS./ACRE; HYDROSEEDED
- C = SPRING DATS 3 BUSHELS/ACRE D = WHEAT OR RYE 2 BUSHELS/ACRE

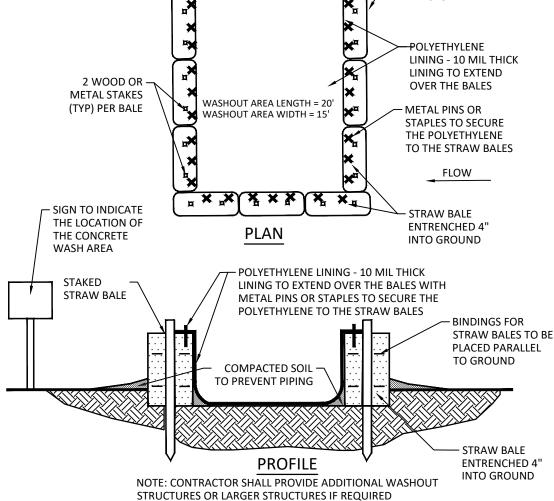
— WASHOUT AREA TO

- E = ANNUAL RYE GRASS 40 LBS./ACRE ( 1 LB/1000 SQ. FT. )
- \*/I/\* = IRRIGATION NEEDED DURING JUNE, JULY, AUGUST AND/OR SEPTEMBER



#### 1. FOUNDATION SHALL BE GEOTEXTILE FABRIC FOR STABILIZATION AND WELL-GRADED FILTRATION OR GRAVEL FILTER LAYER AT LEAST 6 IN. THICK

- 2. STONE SHALL BE HARD, ANGULAR, AND HIGHLY WEATHER—RESISTANT RIPRAP STONE AT A THICKNESS OF 12 IN. MINIMUM OR TWO TIMES THE STONE DIAMETER, WHICHEVER IS GREATER.
- 3. MAKE SURE THE TOP OF THE RIPRAP APRON IS LEVEL WITH OR SLIGHTLY BELOW THE RECEIVING STREAM. (RIPRAP SHOULD NOT RESTRICT THE CHANNEL OR PRODUCE

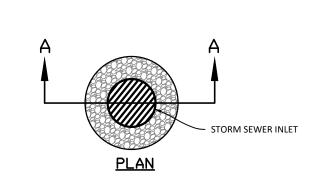


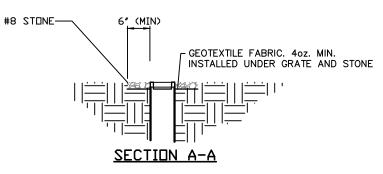
" × % \ % × % \ \ % \* "

ABOVE GROUND CONCRETE WASHOUT AREA NOT TO SCALE

# **CONCRETE WASHOUT NOTES:**

- LOCATE WASH OUT AREA AT LEAST 50 FEET FROM STORM DRAINS, OPEN DITCHES, OR BODIES OF WATER. DO NOT ALLOW RUNOFF FROM THIS AREA BY CONSTRUCTING A TEMPORARY PIT OR BERMED AREA LARGE ENOUGH FOR
- LIQUID AND SOLID WASTE 2. TEMPORARY WASH OUT FACILITIES SHOULD HAVE A TEMPORARY PIT AREA OF SUFFICIENT VOLUME TO COMPLETELY CONTAIN ALL LIQUID AND SOLID WASTE CONCRETE MATERIALS GENERATED DURING WASH OUT PROCEDURES.
- ONLY CONCRETE FROM MIXER TRUCK CHUTES SHOULD BE WASHED INTO WASH OUT PIT. 4. PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL. THE CONCRETE WASHOUT AREA SHALL BE INSPECTED DAILY FOR PUNCTURES OR TEARS IN THE PLASTIC LINER. THE
- LINER SHALL BE REPLACED UPON REMOVAL OF HARDENED CONCRETE. TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE MAINTAINED TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM FREEBOARD OF 12 INCHES. MAINTAINING TEMPORARY CONCRETE WASH OUT FACILITIES SHOULD INCLUDE REMOVING AND DISPOSING OF HARDENED CONCRETE AND RETURNING THE FACILITY TO A FUNCTIONAL CONDITION. HARDENED CONCRETE MATERIALS SHOULD BE REMOVED AND DISPOSED OF. IN ACCORDANCE WITH
- CONCRETE WASHOUT AREAS SHALL BE CLEARLY MARKED WITH LATH & FLAGGING AND A SIGN POSTED AND LABELED "CONCRETE WASHOUT". LATH AND FLAGGING SHOULD BE COMMERCIAL TYPE. 8. THE CONCRETE WASH OUT AREA SHALL BE REPAIRED AND/OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR
- 9. WASHOUT FACILITIES MUST BE CLEANED, OR NEW FACILITIES MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL. 10. AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF AT AN APPROVED SITE

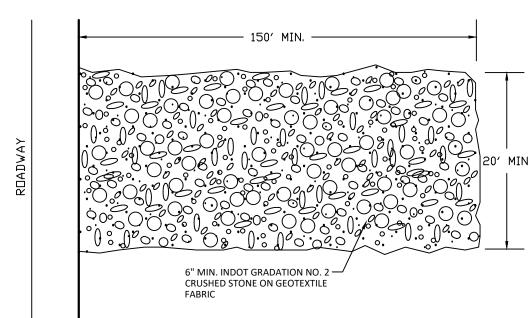




1. INSPECT THE STRUCTURE AFTER EACH STORM EVENT, REMOVING SEDIMENT AND MAKING NEEDED REPAIRS IMMEDIATELY.

2. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZES, REMO∨E AND PROPERLY DISPOSE OF ANY UNSTABLE SEDIMENT.

INLET (<12") PROTECTION DETAIL NOT TO SCALE



# GRAVEL CONSTRUCTION ENTRANCE

# TEMPORARY GRAVEL CONSTRUCTION ENTRANCE INSTALLATION REQUIREMENTS:

- AVOID LOCATING ON STEEP SLOPES OR AT CURVES IN PUBLIC ROADS. REMOVE ALL VEGETATION AND OTHER OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA, AND GRADE AND CROWN FOR POSITIVE DRAINAGE.
- 3. IF SLOPE TOWARDS THE ROAD EXCEEDS 2%, CONSTRUCT A 6-8 in. HIGH WATER BAR (RIDGE) WITH 3:1 SIDE SLOPES ACROSS THE FOUNDATION AREA ABOUT 15 ft. FROM THE ENTRANCE TO DIVERT RUNDFF AWAY FROM THE ROAD. 4. INSTALL PIPE UNDER THE PAD IF NEEDED TO MAINTAIN PROPER PUBLIC ROAD
- DRAINAGE. 5. PLACE STONE TO DIMENSIONS AND GRADE SHOWN IN THE EROSION/SEDIMENT CONTROL PLAN, LEAVING THE SURFACE SMOOTH AND SLOPED FOR DRAINAGE. 6. DIVERT ALL SURFACE RUNDFF AND DRAINAGE FROM THE STONE PAD TO A

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE MAINTENANCE REQUIREMENTS:

- 1. INSPECT ENTRANCE PAD AND SEDIMENT AREA WEEKLY AND AFTER STORM EVENTS OF HEAVY USE. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL
- TOP DRESS WITH CLEAN STONE AS NEEDED. H. IMMEDIATELY REMO∨E MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC RDADS BY BRUSHING OR SWEEPING FLUSHING SHOULD ONLY BE USED IF THE WATER IS CONVEYED INTO A SEDIMENT ROCK TRAP OR BASIN.
- 5. REPAIR ANY BROKEN PAVEMENT IMMEDIATELY.

SEDIMENT TRAP OR BASIN.



REVISIONS O. DATE DESCRIPTION **SSUE DATE**: 03/08/2021

DRAWING TITLE **EROSION CONTROL** 

CHECKED BY

DETAILS

CERTIFIED BY 03/08/202

PROJECT NUMBER 2021.0108

DRAWING NUMBER

The property is located east side of Country Road 250 E, between Commerce Parkway and N 225 E in FRANKLIN, IN, at a latitude of 39°30'39" N and a longitude of 86°03'15" W.

#### PROJECT ACREAGE

13.112 Acres Total Acreage: Proposed Land Disturbance: ±2.2 Acres Total Impervious Surface Area: 147,233 Square Feet

#### OWNER'S INFORMATION

Patch Linville Way, LLC 400 Alpha Drive, Westfield, IN 46074 Address: Representative: Alex Chittenden Development Manager (317) 716-0163 Telephone: **OPERATOR'S INFORMATION** Name:

(XXX) XXX-XXX

#### Telephone: NOTICE OF INTENT

Address:

Representative:

All parties defined as owners or operators must submit a Notice of Intent (NOI) at least 48 hours prior to commencement of on-site construction activities. Submittal of late NOI's is not prohibited; however, authorization under the construction general permit is only for discharges that occur after permit coverage is granted. Unpermitted discharges may be subject to enforcement actions by the EPA. For the purposes of this permit, an operator is defined as any party meeting either of the following

- a) The party has operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications
- The party has day-to-day operational control of those activities at a project that are necessary to ensure compliance with a stormwater pollution prevention plan for the site or other permit conditions.

### A2 11" x 17" PLAT

Refer to the Site Plan.

A3 PROJECT NARRATIVE

Construction of additional planned parking for the existing building.

# A4 VICINITY MAP

Refer to Title Sheet

#### A5 LEGAL DESCRIPTION OF THE PROJECT SITE

Refer to Existing Topography

#### A6 LOCATION OF ALL LOTS AND PROPOSED SITE IMPROVEMENTS

The site will not be subdivided; therefore, there are no individual lots on the property. The proposed site improvements are shown on the included plans.

### A7 HYDROLOGIC UNIT CODE (HUC)

05120204090040

### A8 STATE AND FEDERAL WATER QUALITY PERMITS

**IDEM Rule 5** 

### A9 SPECIFIC POINT WHERE STORMWATER DISCHARGE WILL LEAVE THE SITE

STORMWATER DRAINAGE FROM THE SITE WILL BE CONVEYED BY AN EXISTING STORM SEWER TO EXISTING DETENTION FACILITIES ALONG THE WEST SIDE OF THE SITE. THE DETENTION FACILITIES WILL DISCHARGE TOAN EXISTING SYSTEM ALONG THE EAST EDGE OF THE PROJECT SITE.

# A10 LOCATION AND NAME OF ALL WETLANDS, LAKES, AND WATERCOURSES ON AND ADJACENT TO THE SITE

NO WETLANDS, LAKES OR WATERCOURSES HAVE BEEN IDENTIFIED ON THE SITE THAT MAY BE IMPACTED BY STORMWATER DISCHARGES AS A RESULT OF THE PROPOSED CONSTRUCTION ACTIVITIES.

# A11 IDENTIFICATION OF ALL RECEIVING WATERS

Youngs Creek-Ray Creek is the ultimate receiving water for the project area.

# A12 IDENTIFICATION OF ALL POTENTIAL DISCHARGES TO GROUND WATER

There are no locations on site where surface water may be discharged into ground water.

# A13 100-YEAR FLOODPLAINS, FLOODWAYS, AND FLOODWAY FRINGES

The lot is located in an unshaded Zone "X" (areas determined to be outside the 0.1 percent annual chance floodplain) as indicated on the Johnson County, Indiana, Flood Insurance Rate Map 18081C0143E dated (01/29/2021).

# A14 PRE-CONSTRUCTION AND POST-CONSTRUCTION ESTIMATE OF PEAK DISCHARGE

Pre-construction 10-year discharge: 2.37 cfs Post-construction 10-year discharge: 2.37 cfs

# A15 ADJACENT LAND USE

North: Residential/Farmland Farmland South: Industrial West: Industrial/Farmland

# A16 LOCATIONS AND APPROXIMATE BOUNDARIES OF ALL DISTURBED AREAS

Approximate boundaries of disturbed areas are as identified on the Erosion Control Plan.

# A17 IDENTIFICATION OF EXISTING VEGETATIVE COVER

Approximate areas of existing vegetative cover are as shown on the existing topography sheets.

# A18 SOILS MAP INCLUDING SOIL DESCRIPTION AND LIMITATIONS

The Natural Resources Conservation Service (NRCS) Web Soil Survey of Johnson County, Indiana, indicates Brookston silty clay, Crosby silt loam, Fox complex, Miami silt loam, and Brookston silty clay. are located on the site.

The on-site soil will be treated as recommended by the geotechnical engineer if the conditions are unsuitable for the proposed construction. Remedial treatments may include, but are not limited to, removal of unsuitable soil and backfilling with engineered material, installation of a geofabric within or under the pavement system, or treatment of the subgrade with lime.

#### A19 LOCATIONS, SIZE, AND DIMENSIONS FOR PROPOSED STORMWATER SYSTEMS Refer to the Utility Plan Locations of stormwater systems:

Refer to the Utility Plan Size of storm sewer: Details of storm inlets and manholes: Refer to Utility Details A20 PLANS FOR ANY OFF-SITE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT

NO OFF-SITE CONSTRUCTION ACTIVITY THAT WILL TAKE PLACE DURING THIS PROJECT.

# A21 LOCATIONS OF PROPOSED SOIL STOCKPILES AND/OR BORROW/DISPOSAL

Excess soil shall be immediately stockpiled, surrounded with silt fence and seeded and/or removed from the construction site in accordance with all applicable laws. If topsoil stockpiles are anticipated for this project, they are shown on the Erosion Control

# **A22 EXISTING SITE TOPOGRAPHY**

Refer to the Existing Topography Plan A23 PROPOSED FINAL SITE TOPOGRAPHY

# Refer to the Grading Plan

#### B1 DESCRIPTION OF POTENTIAL POLLUTANT SOURCES ASSOCIATED WITH CONSTRUCTION ACTIVITIES

The following potential pollutant sources may be associated with construction activities on site:

- Material storage areas (more specifically described below)
- Construction waste material
- Fuel storage areas and fueling stations Exposed soils
- Leaking vehicles and equipment
- Sanitary waste from temporary toilet facilities Litter Windblown dust
- Soil tracking off site from construction equipment

#### The following construction materials may be staged or stored on site at various points during development of the site:

- Structural fill
- Pavement Base Stone HDPE, PVC, RCP or Ductile Iron pipe
- Precast concrete, HDPE or PVC drainage and sanitary structures
- Rock rip-rap

### B2 SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION RELATIVE TO LAND-DISTURBING ACTIVITIES

- Schedule pre-construction meeting with local stormwater authority. Install construction entrance
- Utilize the gravel construction entrance for installation of the perimeter silt fence. Add stone if needed. Post the NOI at the entrance. Add protection measures to existing inlets
- Install staging area, fueling station, material storage area and concrete truck washout.
- Strip the top soil and grade. Complete the cut and fills on the site. Final grade and seed the pond slopes. Install check dams or stabilize the slopes with
- erosion control blankets Prior to building construction install stone surface for paved areas.
- Building pads left dormant for more than 15 days, must be temporarily seeded. Start building construction. Install staging area for building materials. Install storm sewer and other utilities. Provide inlet protection immediately upon completion of the inlet and install riprap
- outlet protection prior to installing outlets. Final grade and stabilize slopes when inlets are functioning. Seed the perimeter of the site.
- Complete utility installation, curbs, paving and building construction. 13. Install landscaping plant material and stabilize all disturbed areas.

#### 14. Remove all erosion and sediment control practices when areas have a uniform grass cover. B3 STABLE CONSTRUCTION ENTRANCE LOCATIONS AND SPECIFICATIONS

Construction entrances will be in place prior to any site construction or demolition. Entrances are shown on the Erosion Control Plan, refer to the Erosion Control Details for details

### B4 SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS

Sheet flow areas will be protected by seed and mulch or hydroseeding. Erosion control blankets will be installed on sloped areas where the slope exceeds 6:1 (horizontal to vertical). Silt Fencing will be utilized to prevent sedimentation from leaving the site. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details.

### 35 SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW AREAS

Proposed swales will be stabilized with erosion control blankets, and rock donuts will be installed to slow runoff to inlets. Straw bales and silt fences will not be allowed as concentrated flow protection measures. Refer to the Erosion Control Plan for locations

#### B6 STORM SEWER INLET PROTECTION MEASURE LOCATIONS AND SPECIFICATIONS

The contractor shall install appropriate inlet protection measures at each inlet. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details. Straw bales will not be allowed as inlet protection measures.

Temporary and permanent seeding, Inlet/Outlet protection, and the existing pond will help with runoff.

#### STORMWATER OUTLET PROTECTION SPECIFICATIONS

and the Erosion Control Details for details.

Stormwater outlets will be protected by riprap aprons to prevent scour erosion. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details.

### B9 GRADE STABILIZATION STRUCTURE LOCATIONS AND SPECIFICATIONS

Rip rap aprons at outlets will be utilized to prevent grade destabilization. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details.

# B10 LOCATION, DIMENSIONS, SPECIFICATIONS, AND CONSTRUCTION DETAILS OF EACH STORMWATER QUALITY MEASURE

Refer to the Erosion Control Plan for locations of each stormwater quality measure and the Erosion Control Details.

# B11 TEMPORARY SURFACE STABILIZATION METHODS APPROPRIATE FOR EACH SEASON

Surface stabilization is required on any bare or thinly vegetated area that is scheduled or likely to remain inactive for a period of Refer to the Temporary Seeding Detail within Erosion Control Details for specifics on soil amendments, seed mixtures and mulching.

# B12 PERMANENT SURFACE STABILIZATION SPECIFICATIONS

- A. Loosen lawn area to a minimum depth of 6 inches. Mix soil amendments and fertilizers with topsoil at rates specified. Organic soil amendments such as peat, compost or manure shall be applied at 2" depth evenly over soil and incorporated into the top 6" of topsoil. Provide fertilizer with percentage of nitrogen required to provide not less than 1 pound of actual nitrogen per 1,000 sq. ft. of lawn area and not less than 4 percent phosphoric acid and 2 percent potassium. At least 50 percent of nitrogen to be organic form. Delay mixing of fertilizer if planting will not follow placing of planting soil within a few days.
- B. Fertilizer for lawns: provide a fast release fertilizer with a composition of 1 lb per 1,000 sq. ft. of actual nitrogen, 4 percent phosphorous, and 2 percent potassium by weight.
- Slow-release fertilizer for trees and shrubs: granular fertilizer consisting of 50 percent water-insoluble nitrogen, phosphorous and potassium made up of a composition by weight of 5 percent D. Grade lawn and grass areas to a smooth, even surface with loose, uniformly fine texture. Limit fine grading to areas that can be
- planted within immediate future. Remove trash, debris, stones larger than 1 inch diameter, and other objects that may interfere with planting or maintenance operations. Sow seed using a spreader or seeding machine. Do not seed when wind velocity exceeds 5 miles per hour.
- Distribute seed evenly over entire area by sowing equal quantity in 2 directions at right angles to each other. Rake seed lightly into top 1/8 inch of soil, roll lightly, and water with a fine spray.
- Install erosion control blankets as indicated on the plan.
- H. Protect seeded areas against erosion by spreading clean, seed-free straw mulch after completion of seeding operations. Spread uniformly to form a continuous blanket not less than 1-1/2 inches loose measurements over seeded areas. Water newly planted lawn areas and keep moist until new grass is established. Immediately repair any lawn areas disturbed by
- Refer to the Permanent Seeding Details within the Erosion Control Detail Sheet, for timing of permanent seeding, grass seed specifications and mulching specifications.

# B13 MATERIAL HANDLING AND SPILL PREVENTION PLAN

construction activities including tree and shrub installation.

No solid material, including building materials, is permitted to be discharged to surface waters or buried on site. All solid waste materials, including disposable materials incidental to the construction activity, must be collected in containers or closed dumpsters. The collection containers must be emptied periodically and the collected material hauled to a landfill permitted by the State and/or appropriate local municipality to accept the waste for disposal.

A foreman or supervisor should be designated in writing to oversee, enforce, and instruct construction workers on proper solid waste procedures.

#### Whenever possible, minimize the use of hazardous materials and generation of hazardous wastes. All hazardous waste materials will be disposed in the manner specified by federal, state, or local regulations or by the manufacturer.

# Use containment berms in fueling and maintenance areas and where potential for spills is high.

A foreman or supervisor should be designated in writing to oversee, enforce and instruct construction workers on proper hazardous waste procedures. The location of any hazardous waste storage areas should be indicated on the stormwater pollution prevention plan by the operator following on-site location of the facility.

During construction, water trucks should be used, as needed, by each contractor or subcontractor to reduce dust. After construction, the site should be stabilized to reduce dust.

Construction traffic should enter and exit the site at a Construction Entrance with a rock pad or equivalent device. The purpose of the rock pad is to minimize the amount of soil and mud that is tracked onto existing streets. If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts.

Contractors and subcontractors must comply with all state and local sanitary sewer, portable toilet, or septic system regulations. Sanitary facilities shall be provided at the site by each contractor or subcontractor throughout construction activities. The sanitary facilities should be utilized by all construction personnel and be serviced regularly. All expenses associated with providing sanitary facilities are the responsibility of the contractors and subcontractors. The location of any sanitary facilities should be indicated on the stormwater pollution prevention plan by the operator following on-site location of said facilities.

Water used to establish and maintain grass, to control dust, and for other construction purposes must originate from a public water supply or private well approved by the State or local health department.

Equipment fueling, maintenance, and cleaning should only be completed in protected areas (i.e., bermed area). Leaking equipment and maintenance fluids will be collected and not allowed to discharge onto soil where they may be washed away during a rain

Equipment wash down (except for wheel washes) should take place within an area surrounded by a berm. The use of detergents is prohibited.

Chemicals, paints, solvents, fertilizers, and other toxic or hazardous materials should be stored in their original containers (if original container is not resealable, store the products in clearly labeled, waterproof containers). Except during application, the containers should be kept in trucks or in bermed areas within covered storage facilities. Runoff containing such materials shall be collected, removed from the site, and disposed of in accordance with the federal, state, and local regulations.

As may be required by federal, state or local regulations, the Contractor should have a Hazardous Materials Management Plan and/or Hazardous Materials Spill and Prevention Program in place. A foreman or supervisor should be designated in writing to oversee, enforce, and instruct construction workers on proper hazardous materials storage and handling procedures. The location of any hazardous material storage areas should be indicated on the stormwater pollution prevention plan by the operator following on-site location of the storage areas.

Discharge of hazardous substances or oil into stormwater is subject to reporting requirements. In the event of a spill of a hazardous substance, the operator is required to notify the National Response Center (1-800-424-8802) to properly report the spill. In addition, the operator shall submit a written description of the release (including the type and amount of material released, the date of the release, the circumstances of the release, and the steps to be taken to prevent future spills) to the local governing authority. The SWPPP must be revised within 14 calendar days after the release to reflect the release, stating the information above along with modifications to minimize the possibility of future occurrences. Each contractor and subcontractor is responsible for complying with these reporting requirements.

All concrete trucks waste material shall be completely contained and disposed in accordance with all local, state, and federal regulations. A pit or container is required when cleaning concrete chutes.

# Minor - Small spills that typically involve oil, gasoline, paint, hydraulic fluid, etc., can be controlled by the first responder at the

 Contain spill to prevent material from entering storm or ground water. Do not flush with water or bury. Use absorbent material to clean-up spill material and any subsequently contaminated soil and dispose of properly Semi-Significant Spills - Approximately ten gallons or less of pollutant with no contamination of ground or surface waters. Minor

- spills can be generally controlled by the first responder with help from other site personnel. This response may require other operations to stop to make sure the spill is quickly and safely addressed. At the discovery of the spill: Contain spill to prevent material from entering storm or ground water. Do not flush with water or bury. • Use absorbent material to clean-up spills and dispose of properly. Spills on impervious surfaces should be disposed of as
- absorbents properly. Contact 911 if the spill could be a safety issue.
- Contact supervisors and designated site inspectors immediately. Contaminated solids are to be removed to an approved landfill.

Major or Hazardous Spills - More than ten gallons, there is the potential for death, injury or illness to humans or animals, or has the potential for surface or groundwater pollution

soon as possible to prevent migration deeper into the soil and groundwater. Dispose of contaminated soils or

- Control or contain the spill without risking bodily harm. Temporarily plug storm drains if possible to prevent migration of the spill into the stormwater system.
- Immediately contact the local Fire Department at 911 to report any hazardous material spill. Contact supervisors and designated site inspectors immediately. Governing authorities responsible for storm water facilities should be contacted as well. The contractor is responsible for having these contact numbers available at the job
- site. A written report should be submitted to the owner as soon as possible. • As soon as possible but within 2 hours of discovery, contact the local agency responsible for spill management. The following information should be noted for future reports to the agency:
- Name, address and phone number of person making the spill report The location of the spill
- The time of the spill
- Identification of the spilled substance Approximate quantity of the substance that has been spilled or may be further spilled
- The duration and source of the spill Name and location of the damaged waters
- What measures were taken in the spill response Other information that may be significant

Additional regulations or requirements may be present. A spill response professional should be consulted to make sure all appropriate and required steps have been taken. Contaminated solids should only be removed from the site after approval is given

# B14 MONITORING AND MAINTENANCE GUIDELINES FOR EACH PROPOSED STORMWATER QUALITY MEASURE

All impacted areas, as well as all erosion and sediment control devices, will be inspected every seven (7) calendar days and within 24 hours after a rainfall of 0.5 inch or greater. Where sites have been final or temporarily stabilized or on sites where runoff is unlikely due to winter conditions (e.g., site is covered with snow, ice, or frozen ground exists), such inspections shall be conducted

#### Inspections shall be conducted and a written report prepared, by a designated and qualified person familiar with the USEPA NPDES Storm Water General Permit, this SWPPP, and the Project.

Inspection reports shall be completed including scope of the inspection, name(s) and qualifications of personnel making the inspection, the date of the inspection, observations relating to the implementation of the SWPPP, and any actions taken as a result of incidents of noncompliance noted during the inspection. The inspection report should state whether the site was in compliance or identify any incidents of noncompliance. The contractor shall keep a copy of the inspection reports on site and permanently for a period of two years following construction. The on-site reports may be requested by inspections conducted by the local governing

Locations where vehicles exit the site shall be inspected for evidence of off-site sediment tracking. Each contractor and subcontractor shall be responsible for maintaining the Construction Entrance and other controls as described in this SWPPP.

Inspectors must evaluate areas used for storage of materials that are exposed to precipitation. The purpose is to ensure that

# Material Storage Inspections

materials are protected and/or impounded so that pollutants cannot discharge from storage areas. Off-site material storage areas used solely by the subject project are considered to be part of the project and must be included in the erosion control plans and the site inspection reports.

Seeded areas will be inspected to confirm that a healthy stand of vegetation is maintained. The site has achieved final stabilization

once all areas are covered with pavement or have a stand of vegetation with at least 70% of the background vegetation density.

The density of 70% or greater must be maintained to be considered as stabilized. The operator or their representative will water,

# fertilize, and reseed disturbed areas as needed to achieve this goal.

controls should be inspected at least once every seven (7) calendar days and following any storm event of 0.5 inch or greater.

- The following is a list of inspection/maintenance practices that will be used for specific controls: Geotextiles/Erosion Control Mats: Missing or loose matting must be replaced or re-anchored. Inlet Protection: If silt fence inlet protection is to be used, sediment should be removed when it reaches approximately
- 3. Diversion Swales: Clean debris or other obstructions as needed. Damage from storms or normal construction activities (i.e., tire ruts) shall be repaired immediately.
- Mulching: Inspect for thin or bare spots caused by natural decomposition or weather-related events. Mulch in high traffic areas should be replaced on a regular basis to maintain uniform protection. Sediment Trap: Accumulated silt shall be removed and the basin shall be re-graded to its original dimensions at such point
- that the capacity of the impoundment has been reduced to one-half of its original storage capacity. The removed sediment shall be stockpiled or redistributed in areas that are protected from erosion. Sediment Basin: Inspect frequently to check for damage and to ensure obstructions are not diminishing the effectiveness of the structures. Sediment shall be removed and the basin shall be re-graded to its original dimensions at such point that the capacity of the impoundment has been reduced to 20% of its original storage capacity. The removed sediment shall be

one-half the height of the fence. If a sump is used, sediment should be removed when the volume of the basin is reduced by

- Stabilized Construction Entrance: Periodic re-grading and top dressing with additional stone. Straw Bales: Replace straw bales that show signs of deterioration. Vegetation: Protect newly seeded areas from excessive runoff and traffic until vegetation is established. Establish a watering
- Good Housekeeping: Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges through screening of outfalls and daily pickup of litter.

Silt Fence: Removal of built-up sediment will occur when the sediment reaches one-third the height of the fence.

stockpiled or redistributed in areas that are protected from erosion.

In the event that sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize adverse impacts. An example of this may be the situation where sediment has washed into the street and could be carried into the storm sewers by the next rainfall and/or pose a safety hazard to users of public streets. Modifications/Revisions to SWPPP.

Based on inspection results, any necessary modification to this SWPPP shall be implemented within seven calendar days of the inspection. A modification is necessary if a control measure or operational procedure does not provide adequate pollutant control. All revisions shall be recorded on a Record of Revisions within seven calendar days of the inspection.

It is the responsibility of the operator to maintain effective pollutant discharge controls. Physical site conditions or contractor/subcontractor practices could make it necessary to install more controls than were originally planned. For example, localized concentrations of surface runoff or unusually steep areas could require additional silt barrier or other structural controls. Assessing the need for and installing additional controls will be a continuing contractor/subcontractor responsibility until final stabilization is achieved. Contractors and subcontractors implementing this SWPPP must remain alert to the need to periodically refine and update this SWPPP in order to accomplish the intended goals.

#### Compliance of the site with the General Construction Permit remains the responsibility of all operators that have submitted an NOI until such time as they have submitted a Notice of Termination (NOT). The permittee's authorization to discharge under the General Construction Permit terminates at midnight of the day the NOT is signed.

All permittees must submit an NOT within thirty (30) days after one or more of the following conditions have been met:

- Final stabilization has been achieved on all portions of the site for which the permittee was responsible.
- 2. Another operator/permittee has assumed control over all areas of the site that have not been finally stabilized. 3. In residential construction operations, temporary stabilization has been completed and the residence has been transferred to

#### B15 EROSION AND SEDIMENT CONTROL SPECIFICATIONS FOR INDIVIDUAL BUILDING LOTS

Since the entire site is under a single ownership, there are not any individual building lots.

#### DESCRIPTION OF POLLUTANTS AND THEIR SOURCES ASSOCIATED WITH THE PROPOSED LAND USI

The proposed land use is an Industrial Facility. The pollutants and sources of each pollutant normally expected from this type of land use are listed below:

#### Type of Pollutant: Oil, gasoline, diesel fuel, any hydrocarbon associated with vehicular fuels and lubricants, grease, antifreeze, windshield cleaner solution, brake fluid, brake dust, rubber, glass, metal and plastic fragments, grit, road de-icing materials. Pollutant Source: Building

Type of Pollutant: Cleaning solutions or solvents, leaks from HVAC equipment, grit from roof drainage, aggregate or rubber fragments from roofing system. Pollutant Source: Trash dumpster

#### Type of Pollutant: Cleaning solutions or solvents, litter (paper, plastic, general refuse associated with distribution operations), uneaten food products, bacteria.

Pollutant Source: Lawn and landscape areas

ponds control both storm water quality and quantity.

Pollutant Source: Passenger vehicles, delivery vehicles

Pollutant Source: Parking lot Type of Pollutant: Any pollutant associated with vehicular sources, grit from asphalt wearing surface, bituminous compounds from periodic maintenance (sealing, resurfacing and patching), pavement de-icing materials, paint fragments from parking stall stripes, concrete fragments, wind-blown litter from off-site sources, elevated water temperatures from contact with impervious surfaces.

Type of Pollutant: Fertilizers, soil, organic material (leaves, mulch, grass clippings) C2 SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION

#### The existing detention ponds will remain in place as permanent features after construction is completed. The purpose of the these measures is to restrict stormwater discharges and provide a sediment removal function.

DESCRIPTION OF PROPOSED POST-CONSTRUCTION STORMWATER QUALITY MEASURES A wet detention pond detains storm water runoff long enough for contaminated sediments to settle and remain in the pond and allow the water in the pond to be displaced by the next rain event. The sedimentation process removes particulates, organic

matter, and metals from the water while nutrients are removed through biological uptake. By capturing and retaining runoff, wet

# Good Housekeeping measures such as regular street sweeping, installation of trash receptacles, and reduction in fertilizer

The location of the existing pond and dimensions are included in the existing topography sheet

overspray can be incorporated by the owner and/or occupant. LOCATION, DIMENSIONS, SPECIFICATIONS, AND CONSTRUCTION DETAILS OF EACH STORMWATER QUALITY MEASURE

described below. Refer to the BMP Operations and Maintenance Manual for more detailed maintenance requirements.

laws. Areas that show sign of erosion shall be stabilized with erosion control blanket and/or seed as necessary.

### C5 DESCRIPTION OF MAINTENANCE GUIDELINES FOR POST-CONSTRUCTION STORMWATER QUALITY MEASURES Maintenance requirements for the stormwater quality measures which will remain in place after construction is complete, are

nspect periodically as needed or at least every six months. Sediment shall be disposed of off site in accordance with all applicable

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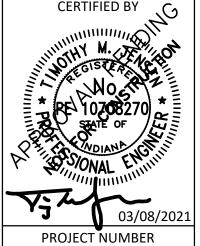
NO. DATE DESCRIPTION

DRAWING TITLE STORM WATER POLLUTION PROTECTION PLAN

ISSUE DATE: 03/08/2021

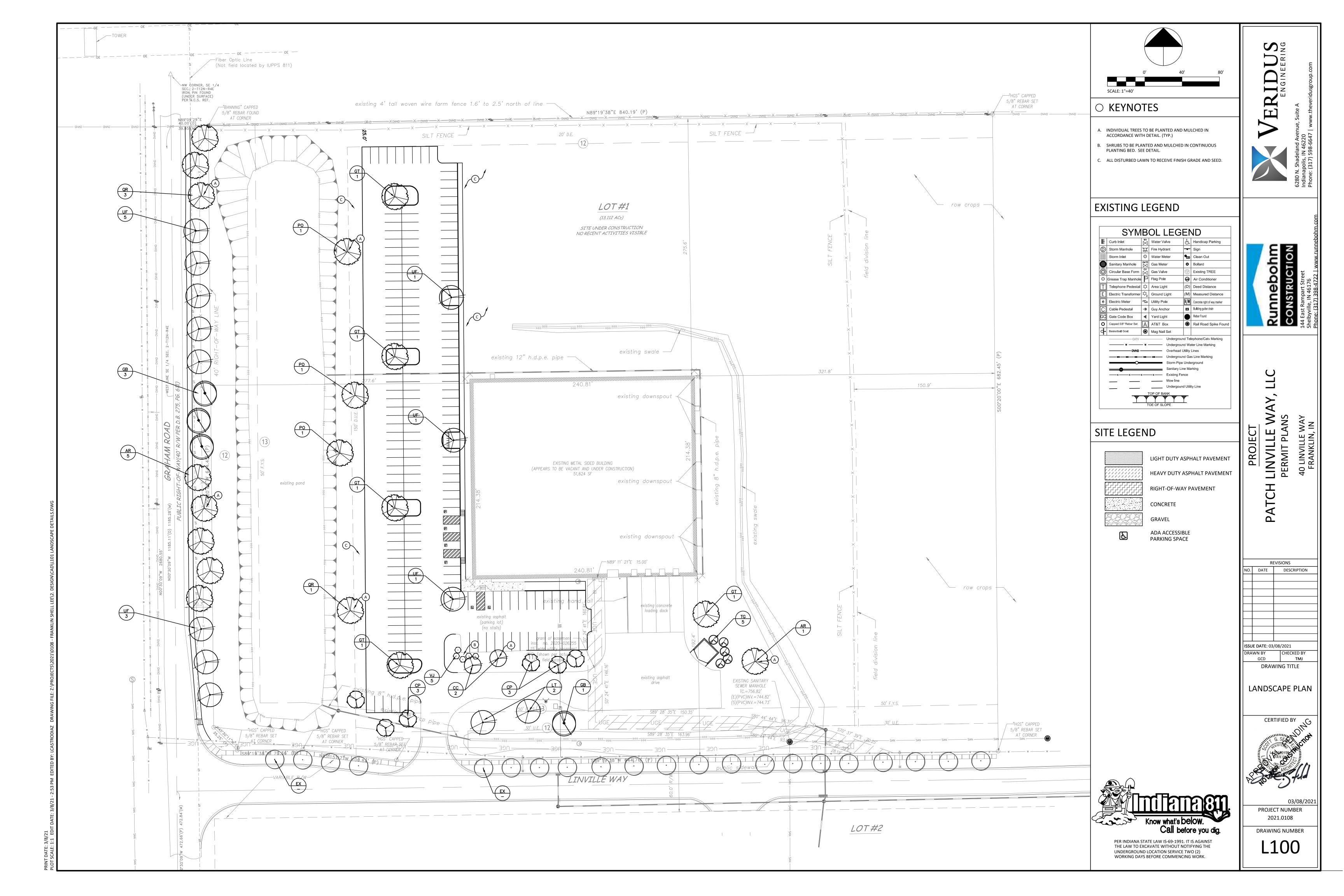
DRAWN BY

GCD



DRAWING NUMBER

2021.0108



- (3) TREE TIES (SEE SPECS.). LOCATE TIES ABOVE FIRST BRANCHING

GUY WIRES (3), WHITE FLAG ON EACH TO INCREASE VISIBILITY. AVOID TIGHT GUY WIRES AS THEY PREVENT NATURAL SWAY.

ROOT BALL. ROPES AT TOP SHALL BE CUT, REMOVE 1/3 OF BURLAP, NON-BIODEGRADABLE MATERIAL SHALL BE TOTALLY REMOVED.

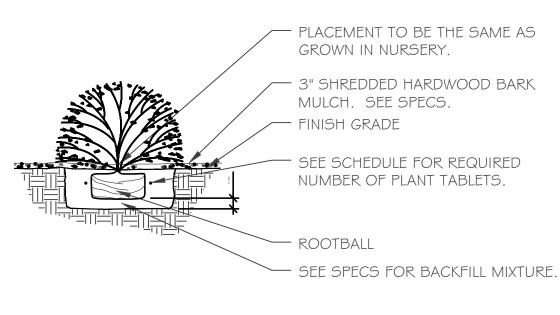
BARK MULCH (SEE SPECS.)

— (3) WOOD STAKES - PLANT TABLET. SEE SCHEDULE FOR

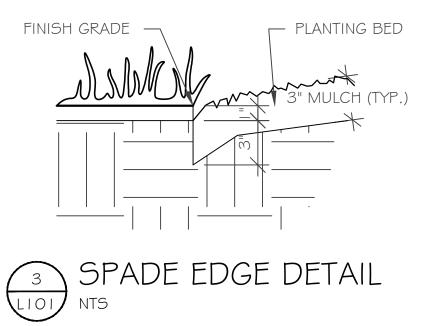
> PREPARED ADMIXTURE BACKFILL. SEE SPECS.

PREPARED SUBSOIL TO FORM PEDESTAL TO PREVENT SETTLING. — FILTER FABRIC SOIL SEPARATOR

TREE PLANTING DETAIL



SHRUB PLANTING DETAIL



	1.				SIZE		MATURE HEIGHT
LEGEND	KEY	QTY	BOTANICAL NAME	COMMON NAME	COND	REMARKS	MATURE SPREAD
	TOEE		<u> </u>				
Marian	TREE	<del>_</del>	Acer rubrum 'franksred'	Franks Red	2-1/2*	Deciduous	35'
{ } }	AR	6		Maple	B & B	Shade Tree	25'
			•				
	CC	2	Cercis Canadensis	Eastern Redbud	2*	Deciduous	15'
		_			B & B	Ornamental Tree	15'
$\stackrel{\smile}{\frown}$			Crataegus Phaenopyrum	Washington Thornless	2**	Deciduous	20'
<b>1</b>	CP	6		Hawthorn	B & B	Ornamental Tree	20'
						1	
	GB	4	Ginkgo Biloba	Autumn Gold	2-1/2*	Deciduous	30'
( \( \)	GB	_ ~	'Autumn Gold'	Ginkgo	B & B	Shade Tree	25'
- Mary	GT	5	Gleditisa Triacanthos	Shademaster	2-1/2"	Deciduous	50'
<b>\</b>	<u> </u>		iniermis	Honey Locust	B & B	Shade Tree	40'
	LT	2	Liriodendron tulipifers	Tullip Tree	2-1/2"	Deciduous	50'
()					B & B	Shade Tree	25'
Mary Mary	PO	3	Platanus x. acerifolia	London Planetree	2-1/2"	Deciduous	60'
	50	3		Ī	B & B	Shade Tree	50'
mmen	QR		Quercus rubra	Red Oak	2-1/2*	Deciduous	60'
( \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	UK.	4		l t	B & B	Shade Tree	35'
			Thuja occidentalis	Green Giant	8'	Evergreen	20'
	TG	5		Arbervitae	B & B	1	10'
		•					· · · · · · · · · · · · · · · · · · ·
		44	Ulmus 'frontier'	Frontier Elm	2-1/2*	Deciduous	30'
	UF	11			B & B	Shade Tree	20'
		•	•				
	- FV		Existing Street Trees		_	_	-
	EX	_	_		-	† <del>-</del>	-
				•		•	
			PLANTING	SCHEDULE - S	HRUBS		
		<u></u>			SIZE		MATURE HEIGHT
LEGEND	KEY	QTY	BOTANICAL NAME	COMMON NAME	COND	REMARKS -	MATURE SPREAD
	C			<u> </u>		<u> </u>	
	SHRU	<del>_</del>	Viburnum x juddii	Judd Viburnum	18-24 <b>*</b>	Deciduous	48*
	VJ	5		Hydrangea	Cont.	Shrub	48"
\ " \ \				,		J. 1140	<del></del>

ALL SHRUBS MUST BE A MINIMUM OF 18" IN HEIGHT AT TIME OF PLANTING IF A DISCREPANCY EXISTS BETWEEN PLAN AND SUMMARY TABLE QUANTITIES, PLAN QUANTITY SHALL CONTROL.

# PLANTING NOTES:

- I. IN CASE OF DISCREPANCY BETWEEN THE PLAN AND THE PLANT LIST - THE PLAN SHALL DICTATE.
- 2. ALL SHRUB PLANTING AREAS TO BE COVERED W/ 3" LAYER OF SHREDDED HARDWOOD BARK MULCH. ALL GROUND COVER BEDS SHALL BE COVERED W/ 2" HARDWOOD BARK MULCH. MUCH SHALL BE UNIFORM IN TEXTURE AND COLOR AND SHALL BE OBTAINED FROM SAWMILL OR LUMBERING OPERATION. NO UTILITY MULCH OR PROCESSED TREE TRIMMINGS WILL BE ALLOWED.
- 3. ALL INTERIOR PARKING ISLANDS SHALL BE VOID OF STONE BASE FROM PAVING PREPARATIONS. ISLANDS SHALL INCLUDE BACKFILL OF MIN. (12") OF APPROVED TOPSOIL AND (6") OF PLANTING MEDIUM INCLUDING 3 TOPSOIL \$ 3 SPHAGNUM PEAT MOSS PER CUBIC YARD PLACED . PLANTING MEDIUM SHALL BE TILLED INTO THE TOP THIRD OF TOPSOIL AND ALL STONES AND DEBRIS GREATER THAN 1- 2 " SHALL BE REMOVED.
- 4. ALL LANDSCAPE PLANTING BEDS SHALL PREPARED BY THE REMOVAL OF ALL STONES & DEBRIS GREATER THAN 1- 1/2 ", BACKFILLED WITH (6") OF APPROVED TOPSOIL AND TOPPED WITH (4") OF SPHAGNUM PEAT MOSS. PEAT MOSS SHALL BE TILLED INTO THE TOP THIRD OF TOPSOIL AND FINISHED TO AN ELEVATION OF (4") BELOW ALL PERIMETER WALKS OR CURBS, AND (2") BELOW FINISHED LAWN.
- 5. BACKFILL FOR TREE PLANTING SHALL BE 75% APPROVED TOPSOIL AND 25% APPROVED PEAT MOSS. TOP LAYER OF BACKFILL SHALL BE 100% EXISTING TOPSOIL. A 5-10-5 ANALYSIS SLOW RELEASE FERTILIZER SHALL BE INCORPORATED INTO BACKFILL AT APPROVED RATES.
- 6. AN APPROVED PRE-EMERGENT HERBICIDE SHALL BE APPLIED IN ALL PLANTING BEDS AT A RATE SPECIFIED BY MANUFACTURER FOR EACH VARIETY.
- 7. NO SUBSTITUTIONS OF PLANT MATERIAL WILL BE ALLOWED. IF PLANTS ARE NOT AVAILABLE, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO BID IN WRITING. ALL PLANTS SHALL BE INSPECTED AND TAGGED W/ PROJECT I.D. AT NURSERY OR CONTRACTORS OPERATIONS PRIOR TO MOVING TO JOB SITE. PLANTS MAY BE INSPECTED AND APPROVED OR REJECTED ON THE JOB SITE BY THE LANDSCAPE ARCHITECT.
- 8. ALL PLANTS SHALL MEET OR EXCEED AMERICAN STANDARDS FOR NURSERY STOCK ANSI Z60.1-2020 EDITION, AS SET FORTH BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
- 9. PLANTS AND ALL OTHER MATERIALS TO BE STORED ON SITE WILL BE PLACED WHERE THEY WILL NOT CONFLICT W/ CONSTRUCTION OPERATIONS AS DIRECTED BY ARCHITECT
- 10. ALL LANDSCAPE PLANTINGS SHALL BE GUARANTEED BY THE LANDSCAPE CONTRACTOR FOR A PERIOD OF ONE YEAR FOLLOWING FINAL INSPECTION BY ARCHITECT. AT THE END OF THIS PERIOD, PLANT MATERIAL DEEMED DEAD OR UNSATISFACTORY BY THE LANDSCAPE ARCHITECT SHALL BE REPLACED AT NO ADDITIONAL CHARGE BY THE CONTRACTOR.
- II. THE LANDSCAPE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND FEES THAT MAY BE REQUIRED FOR HIS PORTION OF WORK.
- 12. PEAT MOSS TO BE USED ON PROJECT SHALL BE DOMESTIC OR IMPORTED MATERIAL, CHOCOLATE BROWN IN COLOR, AND COMPOSED OF PARTIALLY DECOMPOSED VEGETABLE MATERIAL. PEAT MOSS TO BE MILDLY ACIDIC IN CHARACTER AND SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT.
- 13. LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITHING PRIOR TO BID DATE OF ANY PLANTS HE / SHE FEELS MAY NOT SURVIVE IN LOCATIONS NOTED ON PLANS.
- 14. ALL DISTURBED LAWN AREAS SHALL BE SEEDED. LAWN AREAS SHALL RECEIVE (6") OF APPROVED TOPSOIL PRIOR TO SEEDING OPERATIONS. SITE CONTRACTOR TO DISTRIBUTE TOPSOIL AND ROUGH GRADE SITE PRIOR TO LANDSCAPE INSTALLATION. SEEDING PREPARATION SHALL INCLUDE FINE GRADING AND REMOVAL OF ALL ROCKS AND DEBRIS GREATER THAN (I") IN ANY DIRECTION, TILL AND LOOSEN SOILS TO A DEPTH OF (4") AND FINE GRADE TO FINISHED ELEVATIONS PER GRADING PLAN. APPLY TURF-TYPE TALL FESCUE SEED AT A RATE OF 8-10 LBS. PER 1,000 SQ. FT. SEEDING APPLICATIONS MAY BE PERFORMED VIA HYDROSEED OR CONVENTIONAL SEED AND STRAW. IF CONVENTIONAL SEEDING IS PERFORMED, ALL PERIMETER WALKS, CURBS, PAVEMENTS, ETC SHALL BE ALIGNED WITH ONE (8'-0") ROLL OF S-150 EROSION CONTROL BLANKET TO MAINTAIN STRAW IN PLACE. HYDROSEEDING APPLICATIONS SHALL INCLUDE KEEPING ALL FINISHED SURFACES FREE OF SLURRY. SEEDING SHALL INCLUDE STARTER FERTILIZER (10-20-20) OR APPROVED EQUAL AT A RATE OF 1,000 LBS PER



PER INDIANA STATE LAW IS-69-1991. IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2)

PROJECT

NO. DATE DESCRIPTION

ISSUE DATE: 03/08/2021 DRAWN BY GCD DRAWING TITLE

DETAILS

LANDSCAPE

CERTIFIED BY 6

PROJECT NUMBER 2021.0108 DRAWING NUMBER

WORKING DAYS BEFORE COMMENCING WORK.

