

CONSTRUCTION PLANS

FOR

5 SOUTH LOGISTICS CENTER LANE IMPROVEMENTS - PHASE 1 STATE ROAD 44 & FOREST ROAD FRANKLIN, INDIANA



GDI CONSTRUCTION

**9775 Crosspoint Blvd
Suite 105
Indianapolis, IN 46256**

317.567.6100



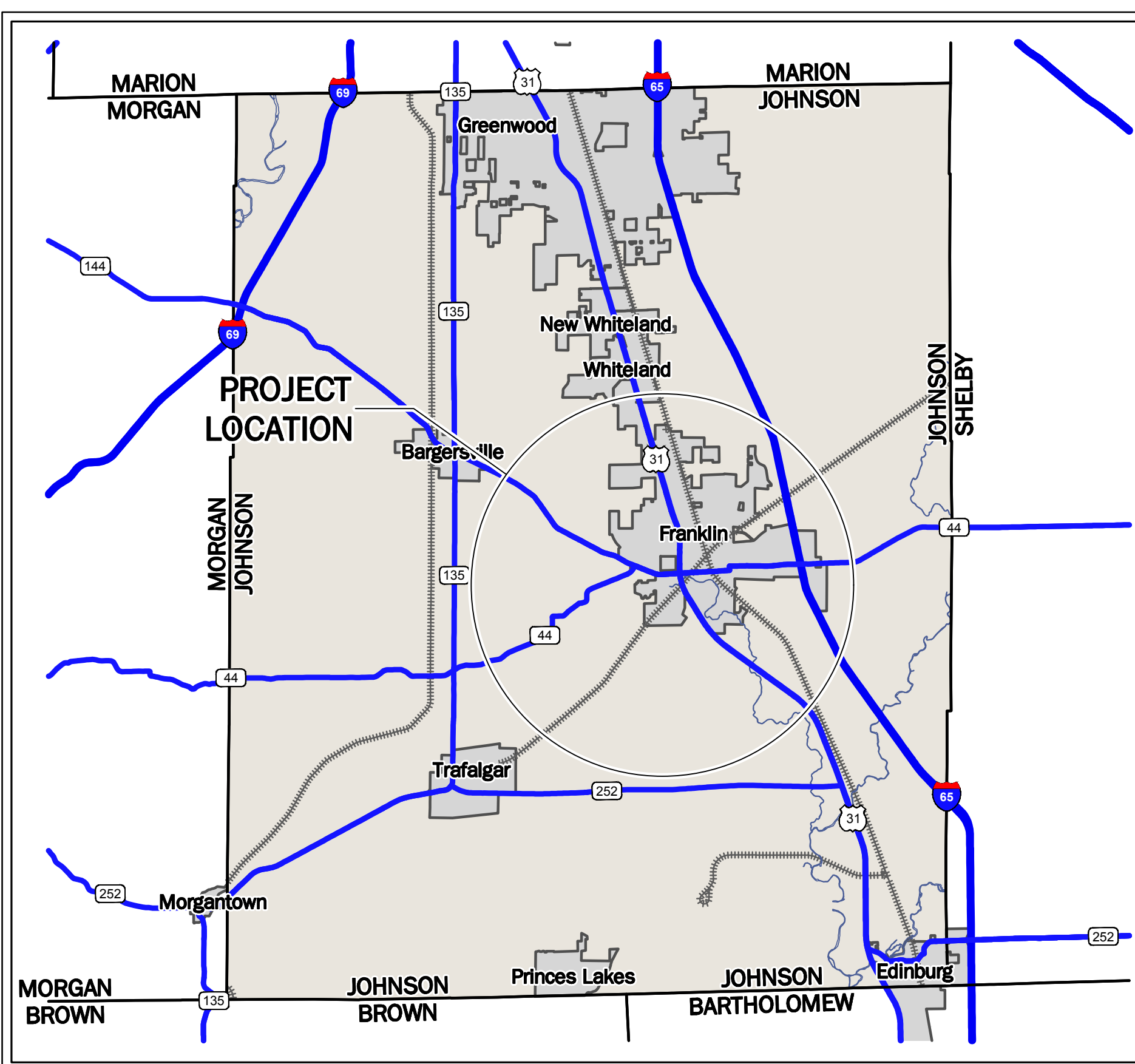
AMERICAN
STRUCTUREPOINT
INC.

9025 River Road, Suite 200 | Indianapolis, Indiana 46240
TEL 317.547.5580 | FAX 317.543.0270
www.structurepoint.com

I-65 SOUTH LOGISTICS CENTER TENANT IMPROVEMENTS - PHASE II

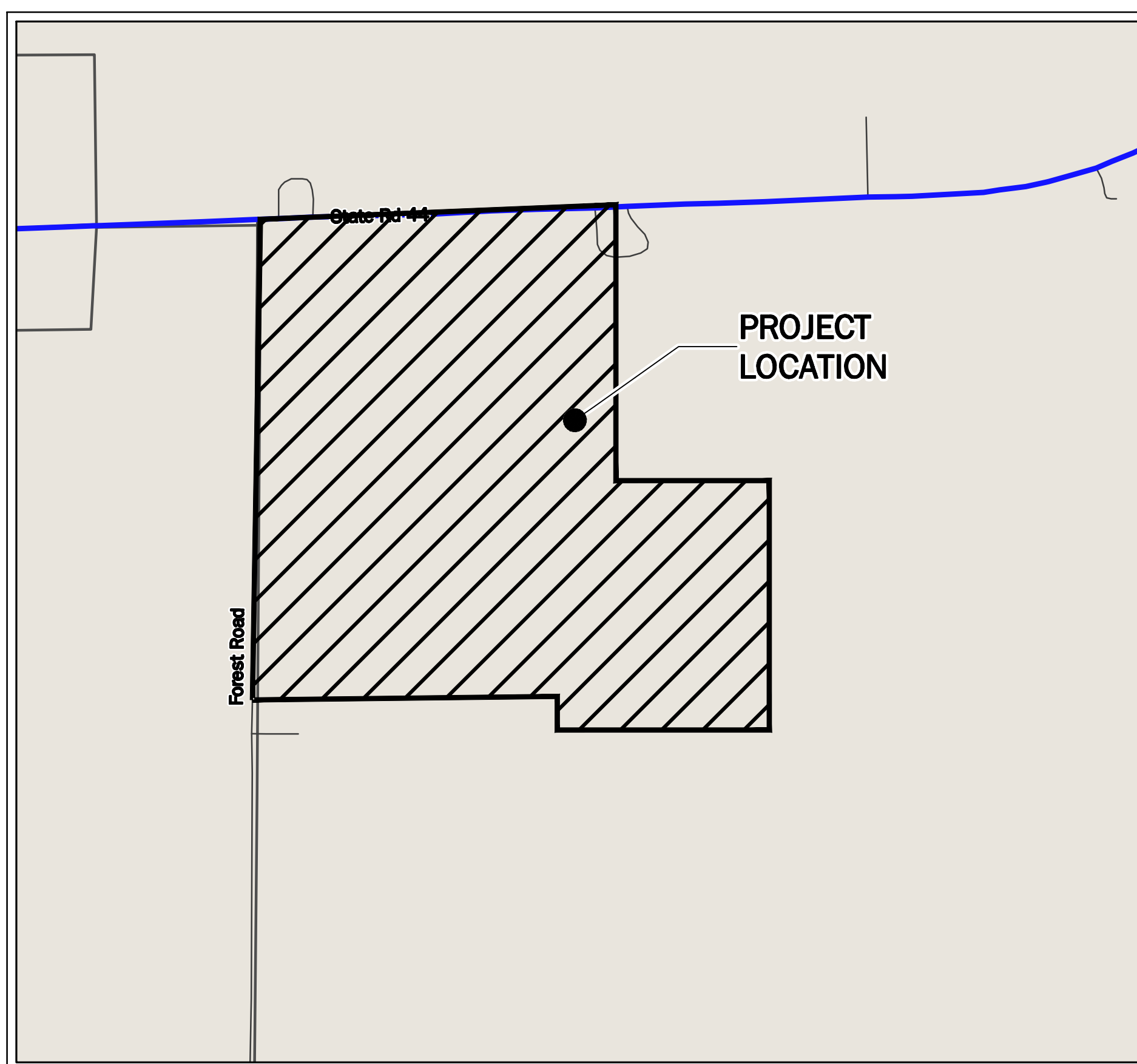
81/89 Forest Road
Franklin, Indiana

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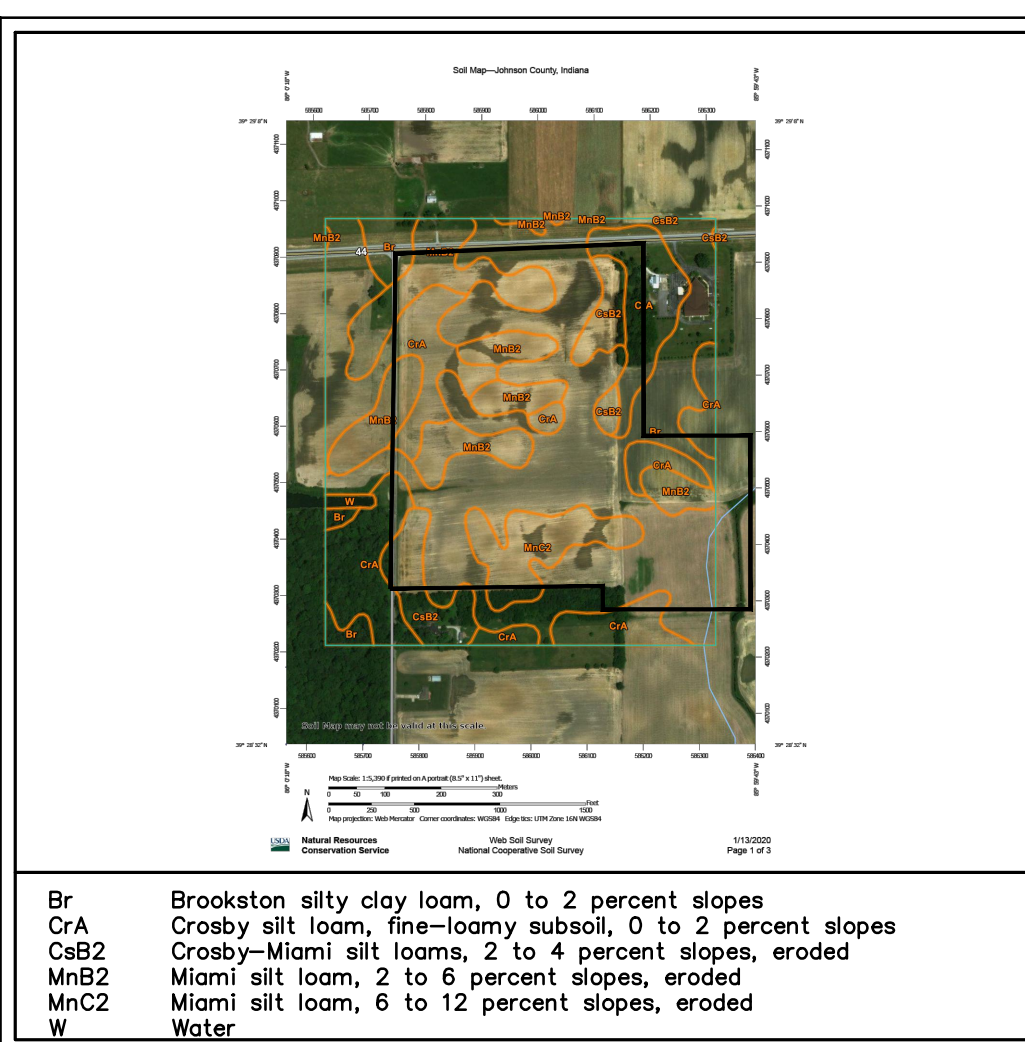
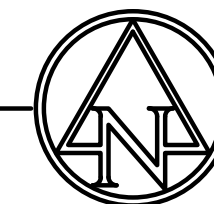
LOCATION MAP

NOT TO SCALE



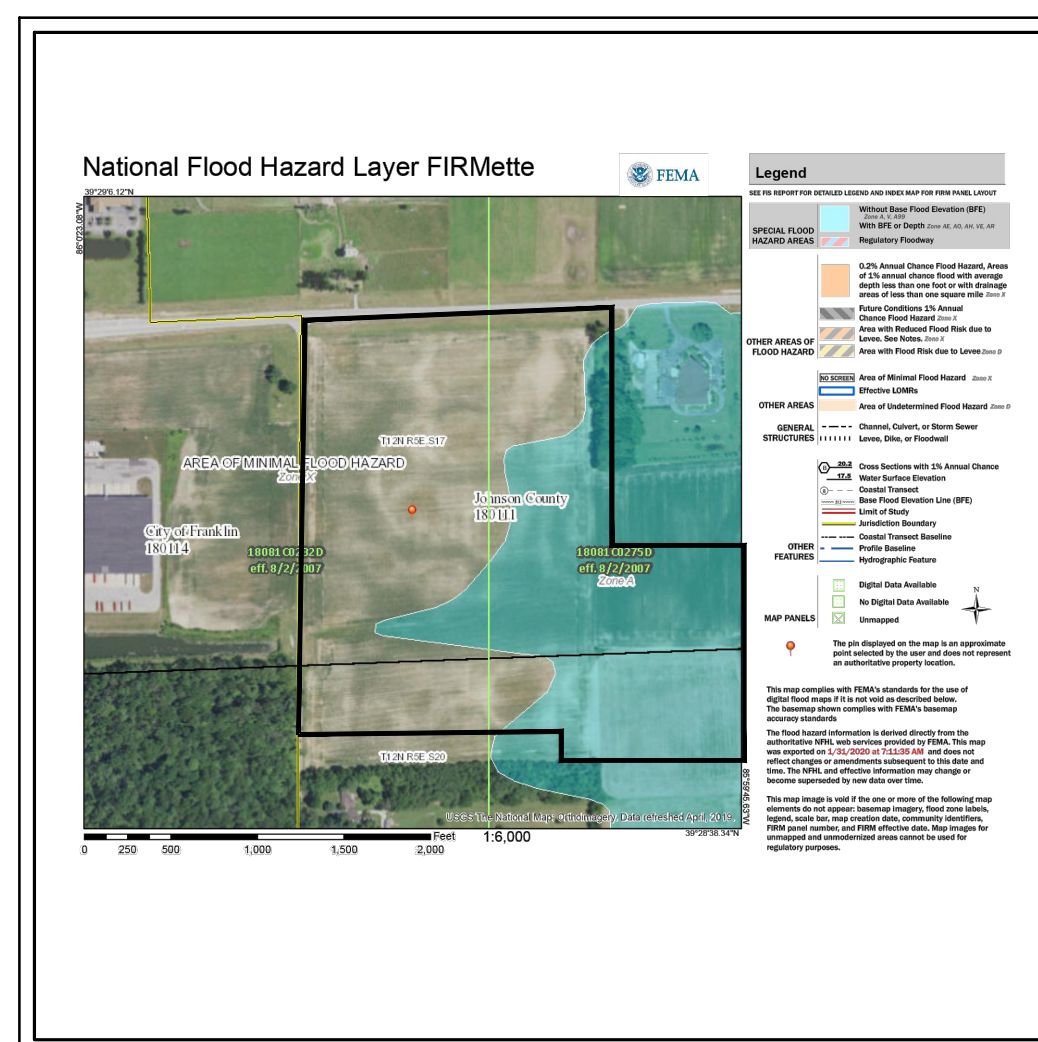
VICINITY MAP

NOT TO SCALE



SOILS MAP

NOT TO SCALE



FEMA MAP

NOT TO SCALE

UTILITY CONTACTS			
UTILITY	COMPANY	CONTACT	PHONE NO.
COMMUNICATIONS	CENTURYLINK (CTLCL)	BRUCE EMERICK	(574) 926-1241
ELECTRIC	JOHNSON COUNTY REMC	KEVIN SHELLEY	(317) 736-6174
GAS	VECTREN	JON EASTHAM	(765) 287-2111
SANITARY SEWER	CITY OF FRANKLIN, DPW	SALLY BROWN	(317) 736-3641
STORM SEWER	CITY OF FRANKLIN, DPW	SALLY BROWN	(317) 736-3641
WATER	INDIANA AMERICAN WATER	RYAN MOORE	(317) 885-2401

GENERAL NOTES

1. CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION.
2. CONTRACTOR TO VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT ENGINEER IF VARIATION EXISTS.
3. SEE SHEET C002 GENERAL NOTES FOR MORE INFORMATION.

!! CAUTION

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, and marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

CALL TOLL FREE
"811" OR 1-800-382-5544
— INDIANA UNDERGROUND

[illegible]

Project Number	2019.02798
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TITLE SHEET

C001

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EDITED BY: ACROWLEY

22

PLOT DATE: 7/30/2024 12:59 PM
PLOT SCALE: 1:2.5849 EDIT

DRAWING FILE: P:\2010\02798\05 - Franklin\Civil\Inland Improvements\Phase 2\2010.02798 CE C002.dgn
PLOT DATE: 7/30/2024 1:01 PM
PLOT SCALE: 1:2.5849
EDIT DATE: 8/14/2022
EDITED BY: ATOMPSON

GENERAL NOTES

- ALL WORK TO CONFORM TO STATE AND LOCAL REGULATIONS.
- CONTRACTOR SHALL KEEP ADJOINING PROPERTIES CLEAN OF CONSTRUCTION DEBRIS AND CONSTRUCTION TRAFFIC AT ALL TIMES.
- THE CONTRACTOR SHALL PROTECT AND NOT DESTROY THE BASE SURVEY CONTROL POINTS DURING DEMOLITION AND CONSTRUCTION.
- ALL UTILITY INFORMATION SHALL BE VERIFIED BY THE CONTRACTOR. CONTACT ENGINEER IMMEDIATELY IF ANY VARIATION EXISTS.
- MAINTAIN EXISTING UTILITIES TO REMAIN IN SERVICE AND PROTECT AGAINST DAMAGE DURING DEMOLITION AND CONSTRUCTION OPERATIONS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY.

EXISTING TOPOGRAPHY NOTES

- EXISTING TOPOGRAPHY IS PROVIDED BY: AMERICAN STRUCTUREPOINT, INC. PROJECT: 2019.02798 DATED: JANUARY 3, 2020.
- ADDITIONAL TOPOGRAPHY IS PROVIDED BY: WEIHE ENGINEERS, PROJECT: W200190, DATED: JUNE 12, 2020.

DEMOLITION NOTES

- CLEAR AND GRUB ALL TREES AND VEGETATION NECESSARY FOR CONSTRUCTION.
- PROTECT TREES TO REMAIN DURING CONSTRUCTION.
- EXISTING TOPOGRAPHY HAS BEEN SUPPLEMENTED WITH DESIGN INFORMATION FROM THE "I-65 SOUTH LOGISTICS CENTER LOT 1" CONSTRUCTION DOCUMENTS DATED APRIL 15, 2021. CONTRACTOR SHALL FIELD VERIFY EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING STRUCTURES, FENCES, CONCRETE, ASPHALT PAVEMENT AND OTHER MISCELLANEOUS APPURTENANCES OFF SITE, UNLESS NOTED TO REMAIN ON THE CONTRACT DRAWINGS.
- DEMOLISH FOUNDATIONS AND OTHER BELOW-GRADE CONSTRUCTION, INCLUDING CONCRETE SLABS, TO A DEPTH OF NOT LESS THAN 48 INCHES BELOW LOWEST FOUNDATION LEVEL.
- COMPLETELY FILL BELOW-GRADE AREAS AND VOIDS RESULTING FROM DEMOLITION OF STRUCTURES, WITH COMPACTED GRANULAR BACKFILL.
- THE USE OF ANY TYPE OF EXPLOSIVES WILL NOT BE PERMITTED.
- CONDUCT DEMOLITION AND CONSTRUCTION OPERATIONS TO ENSURE MINIMAL INTERFERENCE WITH STREETS, WALKS AND OTHER ADJACENT OCCUPIED FACILITIES.
- DO NOT CLOSE OR OBSTRUCT STREETS, WALKS OR OTHER OCCUPIED FACILITIES WITHOUT PERMISSION FROM THE LOCAL AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS, IF REQUIRED BY GOVERNING AUTHORITIES.
- ENSURE SAFE PASSAGE OF PERSONS AROUND AREAS OF DEMOLITION AND CONSTRUCTION. CONDUCT OPERATIONS TO PREVENT DAMAGE TO ADJACENT STRUCTURES AND OTHER FACILITIES AND INJURY TO PERSONS.
- PROMPTLY REPAIR DAMAGE TO ADJACENT FACILITIES CAUSED BY DEMOLITION AND CONSTRUCTION OPERATIONS.
- ALL UTILITIES TO BE REMOVED SHALL BE DISCONNECTED AND CAPPED AT THE NEAREST CONNECTION POINT.
- NO ON-SITE BURNING IS PERMITTED.
- CONTRACTOR SHALL USE MEASURES TO CONTROL DUST AT ALL TIMES.
- DEMOLITION ITEMS INCLUDE BUT ARE NOT LIMITED TO DEMOLITION ITEMS INDICATED ON THIS PLAN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE OR RELOCATE ITEMS WHICH INTERFERE WITH NEW CONSTRUCTION.
- ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING DEMOLITION.

SITE NOTES

- ALL PARKING STRIPES ARE TO BE 4" PAINTED (WHITE). ADA ACCESSIBLE PARKING STRIPES SHALL BE 4" PAINTED (BLUE).
- ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR FACE OF CURB, UNLESS NOTED OTHERWISE.
- ALL DIMENSIONS ARE TO FACE OF BRICK OR FACING MATERIAL, WHERE APPLICABLE.
- ALL DIMENSIONS ARE PARALLEL WITH, OR PERPENDICULAR TO BASE LINES, PROPERTY LINES OR BUILDING LINES, UNLESS OTHERWISE NOTED.
- PROVIDE SMOOTH TRANSITIONS FROM NEW AREAS TO EXISTING FEATURES AS NECESSARY.
- RESURFACE OR RECONSTRUCT AT LEAST TO ORIGINAL CONDITIONS ALL AREAS WHERE THE EXISTING PAVEMENT OR LAWNS ARE DAMAGED DURING CONSTRUCTION FROM TRAFFIC BY CONTRACTORS, SUBCONTRACTORS OR SUPPLIERS AFTER CONSTRUCTION WORK IS COMPLETE.
- EXISTING PAVEMENT TO BE SAW CUT IN ALL AREAS WHERE INDICATED NEW PAVEMENT TO JOIN EXISTING.
- THE EDGE OF THE EXISTING ASPHALT PAVEMENT SHALL BE PROPERLY SEALED WITH A TACK COAT MATERIAL IN ALL AREAS WHERE NEW ASPHALT PAVEMENT IS INDICATED TO JOIN EXISTING ASPHALT.
- CONCRETE SAW CUTTING SHALL BE DONE AS SOON AS POURED CONCRETE HAS CURED AND CAN SUPPORT WEIGHT. PROVIDE A NEAT CUT WHICH IS TRUE IN ALIGNMENT.
- ALL JOINTS ARE TO CONTINUE THROUGH THE CURB.
- RADIAL JOINTS SHALL BE NO SHORTER THAN 1.5'.
- CONTRACTOR SHALL USE A THICKENED EXPANSION JOINT AROUND THE PERIMETER OF ANY BLOCK OUT IN THE CONCRETE PAVING.
- ALL CONSTRUCTION JOINTS SHALL BE SAWN, CLEANED OF DEBRIS, BLOWN DRY AND IMMEDIATELY SEALED WITH THE APPROPRIATE SEALANT ACCORDING TO MANUFACTURER'S DIRECTIONS.
- ALL MATERIALS TO BE IN ACCORDANCE WITH LOCAL DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS RELATIVE TO MATERIAL, MIX, PLACEMENT AND WORKMANSHIP.
- ALL SIDEWALKS SHALL COMPLY WITH ADA STANDARDS. MAXIMUM GROSS SLOPE OF 1:50 AND MAXIMUM LONGITUDINAL SLOPE OF 1:20.
- CHAMFER ALL ENDS OF CURBS.

GRADING NOTES

- SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
- THE EXCAVATING CONTRACTOR MUST TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. VERIFY COVER REQUIREMENTS BY UTILITY CONTRACTORS AND/OR UTILITY COMPANIES SO AS NOT TO CAUSE DAMAGE.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS BEFORE CONSTRUCTION IS TO START TO VERIFY IF ANY UTILITIES ARE PRESENT ON SITE. ALL VERIFICATIONS (LOCATION, SIZE AND DEPTH), SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES. WHEN EXCAVATING AROUND OR OVER EXISTING UTILITIES, THE CONTRACTOR MUST NOTIFY THE UTILITY COMPANY SO A REPRESENTATIVE OF THAT UTILITY COMPANY CAN BE PRESENT TO INSTRUCT AND OBSERVE DURING CONSTRUCTION. SUBCONTRACTORS ARE RESPONSIBLE FOR LOCATIONS OF UTILITIES FOR THEIR OWN WORK.
- CONTRACTOR TO ADJUST ALL EXISTING SURFACE INFRASTRUCTURE (HYDRANTS, VALVES, HANDHOLES, CASTINGS, IRRIGATION SYSTEM, UTILITY PEDESTALS, ETC.) AS REQUIRED TO MEET PROPOSED GRADE AT HIS/HER OWN COST.
- AFTER STRIPPING TOPSOIL MATERIAL, PROOFROLL SHALL BE PERFORMED BY A LOADED TANDEM PNEUMATIC TIRE DUMP TRUCK MINIMUM GROSS VEHICLE WEIGHT OF 15 TONS. THE TIRES SHALL BE OPERATED AT INFLATION PRESSURES BETWEEN 70-80 PSI UNLESS OTHERWISE NOTED BY THE GEOTECHNICAL ENGINEER. THE TIRES SHALL BE INFLATED WITH AIR ONLY; NO LIQUID SHALL BE USED. THE PROOFROLL SHALL BE COMPLETED UNDER INSPECTION OF SOILS FIRM TO DETERMINE LOCATIONS OF ANY POCKETS OF UNSUITABLE MATERIAL. THE NECESSITY FOR SUBDRAINS AND/OR REMOVAL OF ANY UNSUITABLE MATERIAL WILL BE DETERMINED AT THE TIME OF CONSTRUCTION.
- PROVIDE POSITIVE DRAINAGE WITHOUT PONDING IN ALL AREAS. AFTER INSTALLATION, CONTRACTOR TO TEST FOR, AND CORRECT, IF ANY, STANDING WATER CONDITIONS.
- ALL PROPOSED SPOT ELEVATIONS OR CONTOURS ARE THE FINAL PAVEMENT AND FINAL GRADE ELEVATIONS.
- SEE APPROPRIATE DETAILS TO DETERMINE SUBGRADE ELEVATIONS BELOW FINISH GRADE ELEVATIONS INDICATED.
- TRENCHES FOR ALL STORM DRAIN LINES SHALL BE BACKFILLED COMPLETELY WITH SELECT GRANULAR MATERIAL IF WITHIN 5 FEET OF PAVEMENT.
- CONTRACTOR TO PERPETUATE ANY SUBSURFACE DRAIN TILES OR PIPES ENCOUNTERED DURING CONSTRUCTION AND PROVIDE POSITIVE OUTLET TO DOWNSTREAM RECEIVING SYSTEM. CONTRACTOR TO NOTIFY THE ENGINEER WITH ANY CIRCUMSTANCES WHERE THIS CANNOT BE ACCOMPLISHED.
- DUE TO SITE CONSTRAINTS, THE EARTHWORK FOR THE SITE AS DESIGNED MAY OR MAY NOT BALANCE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE EXISTING CONDITIONS AND INCLUDE IN THEIR BID ALL EARTHWORK COSTS INCLUDING IMPORTS AND/OR EXPORTS NECESSARY TO MAKE THE SITE BALANCE.
- CONTRACTOR TO STABILIZE EXPOSED EARTH AS INDICATED BY THE STORMWATER POLLUTION PREVENTION PLAN OR GOVERNING AUTHORITY.

UTILITY NOTES

- SITE UTILITIES SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
- THE EXCAVATING CONTRACTOR MUST TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. VERIFY COVER REQUIREMENTS BY UTILITY CONTRACTORS AND/OR UTILITY COMPANIES SO AS NOT TO CAUSE DAMAGE.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS BEFORE CONSTRUCTION IS TO START TO VERIFY IF ANY UTILITIES ARE PRESENT ON SITE. ALL VERIFICATIONS (LOCATION, SIZE AND DEPTH), SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES. WHEN EXCAVATING AROUND OR OVER EXISTING UTILITIES, THE CONTRACTOR MUST NOTIFY THE UTILITY COMPANY SO A REPRESENTATIVE OF THAT UTILITY COMPANY CAN BE PRESENT TO INSTRUCT AND OBSERVE DURING CONSTRUCTION. SUBCONTRACTORS ARE RESPONSIBLE FOR LOCATIONS OF UTILITIES FOR THEIR OWN WORK.
- CONTRACTOR TO ADJUST ALL EXISTING SURFACE INFRASTRUCTURE (HYDRANTS, VALVES, HANDHOLES, CASTINGS, IRRIGATION SYSTEM, UTILITY PEDESTALS, ETC.) AS REQUIRED TO MEET PROPOSED GRADE.
- ALL UTILITY MATERIALS AND INSTALLATION SHALL CONFORM TO LOCAL STANDARDS FOR EACH UTILITY AGENCY HAVING JURISDICTION.
- TRENCHES FOR ALL UTILITY LINES SHALL BE BACKFILLED COMPLETELY WITH SELECT GRANULAR MATERIAL IF THE TOP OF THE TRENCH IS WITHIN 5 FEET OF PAVEMENT.
- CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES AND CONDUITS TO AVOID CONFLICTS AND PROVIDE REQUIRED MINIMUM DEPTHS OF COVER. THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL BENDS WITH THRUST BLOCKS REQUIRED TO ASSURE PROPER INSTALLATION OF WATER MAINS AND LATERALS.
- IN THE EVENT OF A CONFLICT BETWEEN WATER LINES AND STORM DRAINS, THE CONTRACTOR SHALL EITHER ADJUST THE WATER LINE DOWNWARD IN SUCH A MANNER SO THAT THE PIPE MANUFACTURER'S RECOMMENDATIONS ON PIPE DEFLECTION AND JOINT STRESS ARE NOT EXCEEDED OR THE CONTRACTOR SHALL PROVIDE APPROPRIATE BENDS AND CROSSINGS.
- ALL COORDINATES AND DIMENSIONS ARE TO THE CENTERLINE OF UTILITIES AND STRUCTURES.
- ALL PROPOSED STORM SEWER AND DRAINAGE APPURTENANCES SHALL BE IN CONFORMANCE WITH THE CITY OF FRANKLIN STORMWATER SPECIFICATIONS, LATEST EDITION. DISCREPANCIES BETWEEN THE PLANS AND THE STORMWATER SPECIFICATIONS SHALL NOT ALLEVIATE THE CONTRACTOR FROM ADHERING TO THE REQUIREMENTS AS SET FORTH IN THE STORMWATER SPECIFICATIONS.

EROSION CONTROL NOTES

- CONTRACTOR SHALL INSTALL ALL PERIMETER SILT FENCE AND SEDIMENT CONTROL BARRIERS PRIOR TO CLEARING AND GRADING.
- 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.
- LAND ALTERATION WHICH STRIPS THE LAND OF VEGETATION, INCLUDING RE-GRADING, SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION.
- SEDIMENT LADEN WATER SHALL BE DETAINED BY EROSION CONTROL PRACTICES AS NEEDED TO MINIMIZE SEDIMENTATION IN RECEIVING WATER. NO STORM WATER SHALL BE DISCHARGED FROM THE SITE IN A MANNER THAT CAUSES EROSION AT THE POINT OF DISCHARGE.
- WASTE AND UNUSED BUILDING MATERIALS SHALL NOT BE ALLOWED TO BE CARRIED FROM THE SITE BY STORM WATER RUNOFF. PROPER DISPOSAL OF ALL WASTE AND UNUSED BUILDING MATERIALS IS REQUIRED.
- SEDIMENT BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS SHALL BE MINIMIZED. CLEARING OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE FLUSHING WITH WATER. CLEARED SEDIMENT SHALL BE RETURNED TO THE SITE FOR DISPOSAL.
- 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.
- IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
- THE SITE IS/IS NOT LOCATED WITHIN ANY FLOODPLAIN, FLOODWAY OR FLOODWAY FRINGE AS INDICATED ON THE FLOOD INSURANCE RATE MAP (FIRM) FOR JOHNSON COUNTY, IN, MAP NUMBER 18081C01440, DATED AUGUST 2, 2007.
- SCHEDULE OF EARTHWORK ACTIVITIES:
 - 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. UN-VEGETATED AREAS THAT ARE SCHEDULED OR LIKELY TO BE LEFT INACTIVE FOR FIFTEEN (15) DAYS OR MORE MUST BE TEMPORARILY OR PERMANENTLY STABILIZED WITH MEASURES APPROPRIATE FOR THE SEASON TO MINIMIZE EROSION POTENTIAL. ALTERNATIVE MEASURES TO SITE STABILIZATION ARE ACCEPTABLE IF THE PROJECT SITE OWNER OR THEIR REPRESENTATIVE CAN DEMONSTRATE THEY HAVE IMPLEMENTED EROSION AND SEDIMENT CONTROL MEASURES ADEQUATE TO PREVENT SEDIMENT DISCHARGE.
 - 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.
 - 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.
- PRIOR TO COMPLETION OF THE PROJECT, CONTRACTOR SHALL CLEAN OUT ALL STORM DRAINAGE STRUCTURES AND RESTORE ALL DITCHES AND PONDS TO DESIGNED GRADES.
- CONTRACTOR SHALL REMOVE ALL SEDIMENT CONTROL BARRIERS ONCE CONSTRUCTION IS COMPLETE AND THE SITE HAS BEEN STABILIZED.
- ALL PROPOSED EROSION AND SEDIMENT CONTROL SHALL BE IN CONFORMANCE WITH THE CITY OF FRANKLIN STORMWATER SPECIFICATIONS, LATEST EDITION. DISCREPANCIES BETWEEN THE PLANS AND THE STORMWATER SPECIFICATIONS SHALL NOT ALLEVIATE THE CONTRACTOR FROM ADHERING TO THE REQUIREMENTS AS SET FORTH IN THE STORMWATER SPECIFICATIONS.
- ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED BY THE INSPECTOR.

EXISTING LEGEND

	BEEHIVE INLET		STAND PIPE
	COMBINATION POLE		STUMP
	ELECTRIC METER BOX		SUB SURFACE DRAIN
	GAS MARKER SIGN		TEMPORARY BENCH MARK
	GUY WIRE		TEST HOLE
	HOSE BIB		TELEPHONE MARKER SIGN
	INLET		TELEPHONE PEDESTAL
	MAILBOX		TRANSFORMER
	PINE		TREE
	POST		VENT
	POWER POLE		WELL
	RIGHT OF WAY MONUMENT		
	SIGN		

BENCHMARK DATA

(NAVD '88)

HELD OPUS SOLUTION 18-83940150 FOR BASE #1000 FOR INGCS JOHNSON COUNTY, IN

ASI TBM #32
CHISELED "X" ON SW BOLT OF FIRE HYDRANT EAST SIDE OF BARTRAM PARKWAY; ±300' SOUTH OF SR 44.
ELEV = 731.40

ASI TBM #50
MAG SPIKE SET IN WEST SIDE UTILITY POLE AT SW CORNER OF SR 44 AND COUNTY ROAD 525 E.
ELEV = 725.39

ASI TBM #51
MAG SPIKE SET IN SOUTH SIDE UTILITY POLE #40792 SOUTH SIDE OF SR 44 AND ±400' WEST OF MAILBOX #5557.
ELEV = 721.56

ASI TBM #52
CHISELED SQUARE ON WEST CORNER OF NW END OF CONCRETE HEADWALL OF BOX CULVERT UNDER SR 44 LOCATED ±600' SOUTHWEST OF COUNTY ROAD 600 E.
ELEV = 720.38

ASI TBM #53
MAG SPIKE SET IN WEST SIDE UTILITY POLE #06135 ON WEST SIDE OF OF COUNTY ROAD 525 E AND ±900' SOUTH OF SR 44.
ELEV = 735.00

ASI TBM #54
MAG SPIKE SET IN NW SIDE UTILITY POLE #12P1002 ON WEST SIDE OF COUNTY ROAD 525 E AND ±200' NORTH OF SOUTH PROPERTY LINE.
ELEV = 724.93



GDI CONSTRUCTION

9775 Crosspoint Blvd
Suite 105
Indianapolis, IN 46256

317.567.6100



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81/89 Forest Road
Franklin, Indiana

APPROVAL PENDING
NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

CERTIFIED BY

ISSUANCE INDEX

DATE:
07/26/2024
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

Project Number 2019.02798

GENERAL NOTES

C002

GEOTECHNICAL & ENVIRONMENTAL NOTE:

- CONTRACTOR SHALL REFER TO THE GEOTECHNICAL ENGINEERING REPORT FOR INFORMATION ABOUT SOIL CONDITIONS.

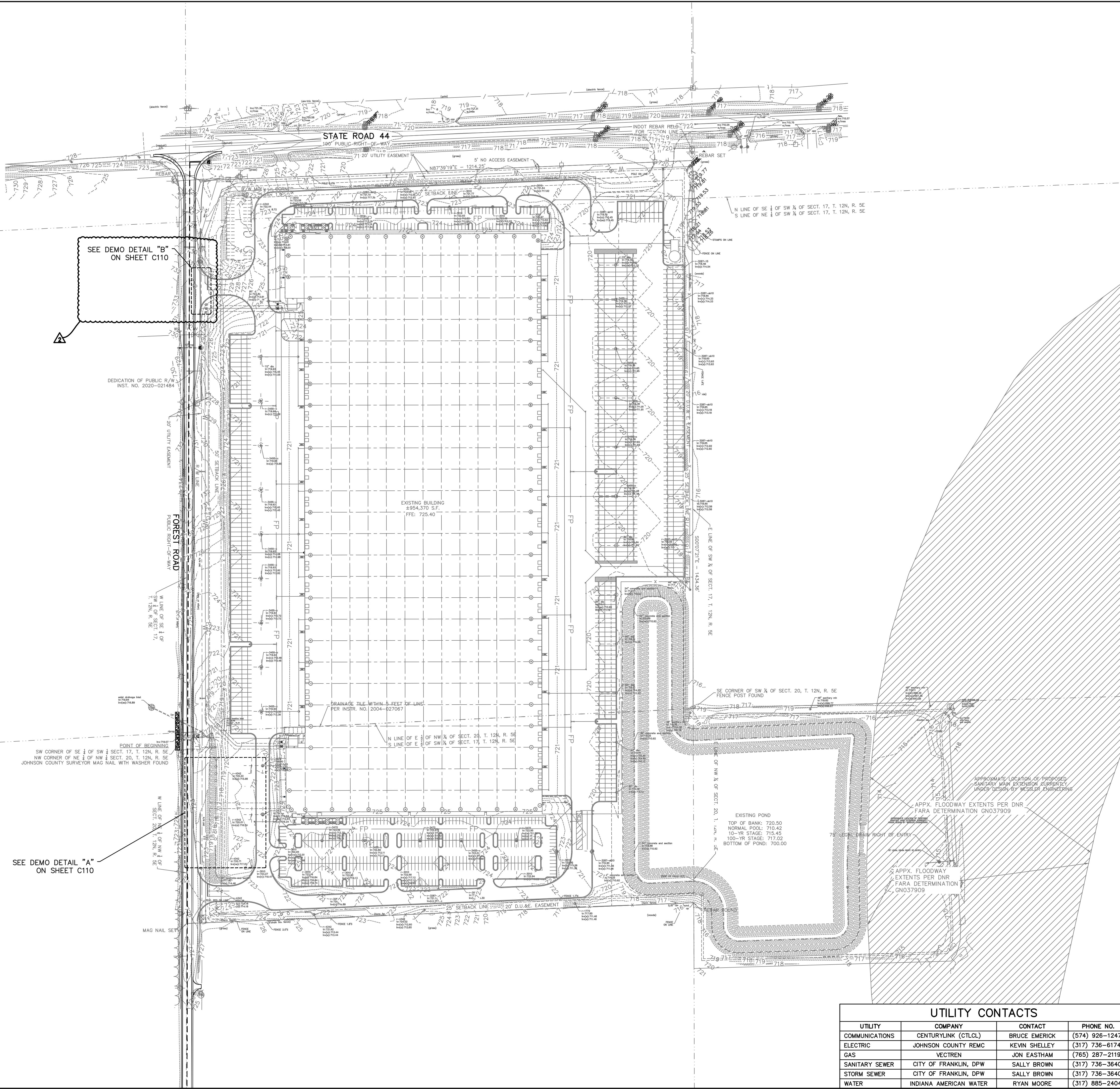
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CALL TOLL FREE
"811" OR 1-800-382-5544
- INDIANA UNDERGROUND -



EXISTING LEGEND

	BEEHIVE INLET		STAND PIPE
	COMBINATION POLE		STUMP
	ELECTRIC METER BOX		SUB SURFACE DRAIN
	GAS MARKER SIGN		TEMPORARY BENCH MARK
	GUY WIRE		TEST HOLE
	HOSE BIB		TELEPHONE MARKER SIGN
	INLET		TELEPHONE PEDESTAL
	MAILBOX		TRANSFORMER
	PINE		TREE
	POST		VENT
	POWER POLE		WELL
	RIGHT OF WAY MONUMENT		
	SIGN		

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(NAVD '88)

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MAG SPIKE SET IN WEST SIDE UTILITY POLE #06135 ON WEST SIDE OF COUNTY ROAD 525 E AND ±900' SOUTH OF SR 44.
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MAG SPIKE SET IN NW SIDE UTILITY POLE #12P1002 ON WEST SIDE OF COUNTY ROAD 525 E AND ±200' NORTH OF SOUTH PROPERTY LINE.
ELEV = 724.93

LEGAL DESCRIPTION

Part of the East Half of the Southwest Quarter of Section 17 and part of the Northeast and Northwest Quarters of Section 20, all in Township 12 North, Range 5 East, Johnson County, Indiana, more particularly described as follows:

Commencing at a Mag Nail with a Johnson County Surveyor washer at the southwest corner of said East Half of the Southwest Quarter, thence North 87 degrees 19 minutes 26 seconds East 40.04 feet along the south line of said East Half (the basis of bearings is the Indiana Geospatial Coordinate System, "Johnson" zone) to the east right-of-way line of County Road 525 East as described in Instrument Number 2020-021484, on file in the Office of the Recorder of Johnson County, Indiana, which is the POINT OF BEGINNING, the following two (2) courses are along said east right-of-way line; 1)thence North 00 degrees 07 minutes 05 seconds West 1,302.08 feet; 2)thence North 16 degrees 35 minutes 37 seconds East 147.52 feet to the south right-of-way line of State Road 44 as defined on the right-of-way plans for INDOT Project No. STP-068-4 (011) R/W, the following two (2) courses are along said south right-of-way line; 1)thence North 87 degrees 28 minutes 32 seconds East 28.96 feet; 1)thence North 87 degrees 39 minutes 19 seconds East 1,214.25 feet along said south right-of-way line to the east line of said Southwest Quarter, thence North 88 degrees 21 minutes 25 seconds East 747.55 feet along the north line of said Northeast Quarter, thence South 57 degrees 28 minutes 41 seconds West 77.77 feet; thence South 35 degrees 53 minutes 25 seconds West 15.34 feet; thence South 09 degrees 00 minutes 43 seconds West 16.09 feet; thence South 02 degrees 54 minutes 18 seconds East 92.76 feet; thence South 03 degrees 19 minutes 17 seconds East 432.37 feet; thence South 02 degrees 35 minutes 43 seconds West 36.87 feet; thence South 16 degrees 03 minutes 51 seconds West 34.52 feet; thence South 37 degrees 30 minutes 13 seconds West 22.07 feet; thence South 88 degrees 21 minutes 34 seconds West 21.50 feet; thence South 88 degrees 21 minutes 26 seconds West 651.84 feet to the west line of said Northeast Quarter; thence North 00 degrees 11 minutes 00 seconds West 172.08 feet along said west line to a 5/8-inch diameter rebar with no cap; thence South 87 degrees 39 minutes 18 seconds West 1,288.99 feet to said east right-of-way line, the following two (2) courses are along said east right-of-way line; 1)thence North 00 degrees 04 minutes 51 seconds East 498.52 feet; 2)thence North 00 degrees 07 minutes 05 seconds West 1.85 feet to the POINT OF BEGINNING. Containing 67.93 acres, more or less.

GENERAL NOTES:

- CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION.
- CONTRACTOR TO VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT ENGINEER IF VARIATION EXISTS.
- SEE SHEET C002 GENERAL NOTES FOR MORE INFORMATION.

!! CAUTION !!

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CALL TOLL FREE
"811" OR 1-800-382-5544
- INDIANA UNDERGROUND -

UTILITY CONTACTS			
UTILITY	COMPANY	CONTACT	PHONE NO.
COMMUNICATIONS	CENTURYLINK (CTLCL)	BRUCE EMERICK	(574) 926-1247
ELECTRIC	JOHNSON COUNTY REMC	KEVIN SHELLEY	(317) 736-6174
GAS	VECTREN	JON EASTHAM	(765) 287-2119
SANITARY SEWER	CITY OF FRANKLIN, DPW	SALLY BROWN	(317) 736-3640
STORM SEWER	CITY OF FRANKLIN, DPW	SALLY BROWN	(317) 736-3640
WATER	INDIANA AMERICAN WATER	RYAN MOORE	(317) 885-2404

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I-65 SOUTH LOGISTICS CENTER TENANT IMPROVEMENTS - PHASE II

81/89 Forest Road
Franklin, Indiana

APPROVAL PENDING NOT FOR CONSTRUCTION

IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

CERTIFIED BY

ISSUANCE INDEX	
DATE:	07/26/2024
PROJECT PHASE:	CONSTRUCTION DOCUMENTS

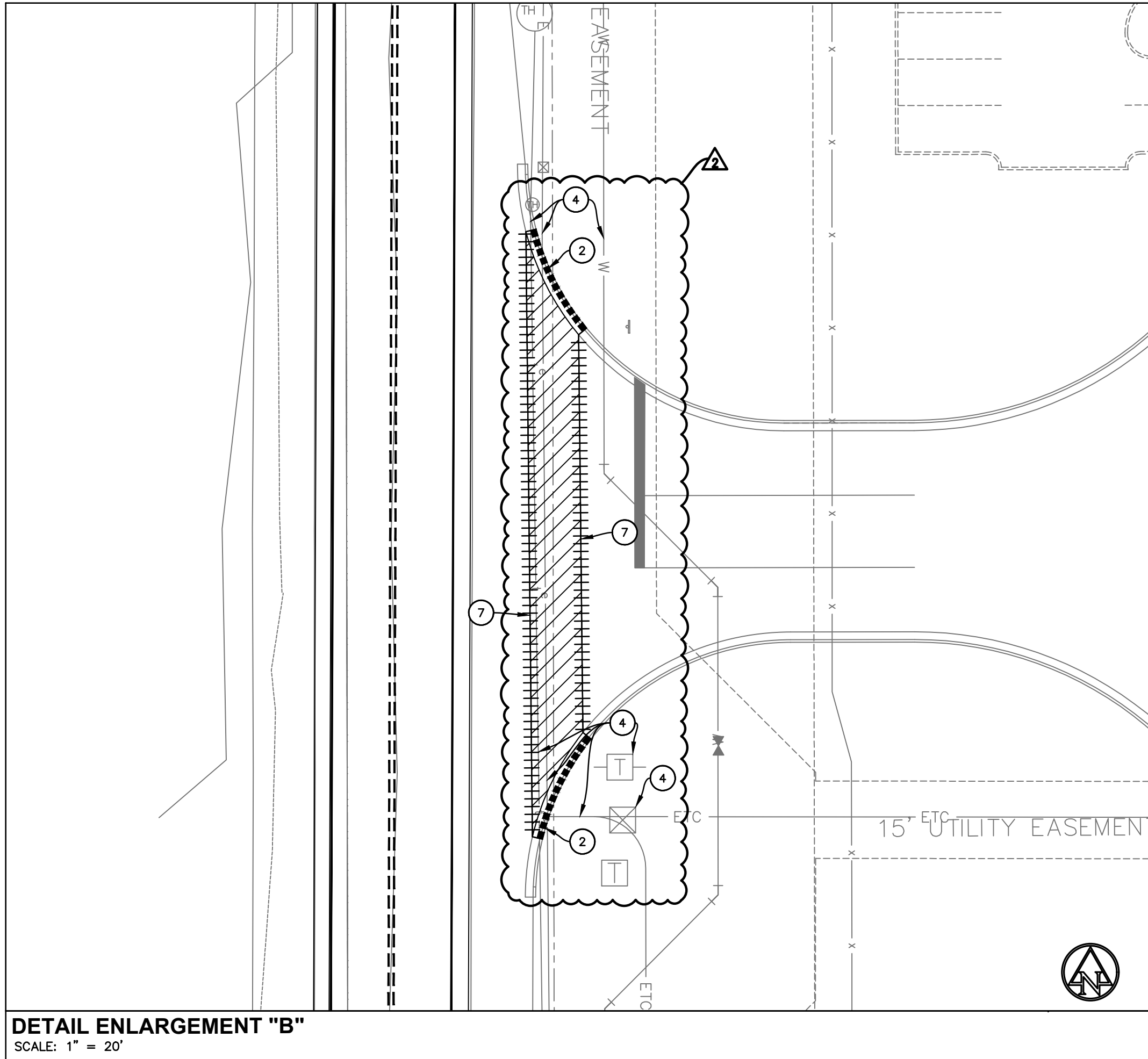
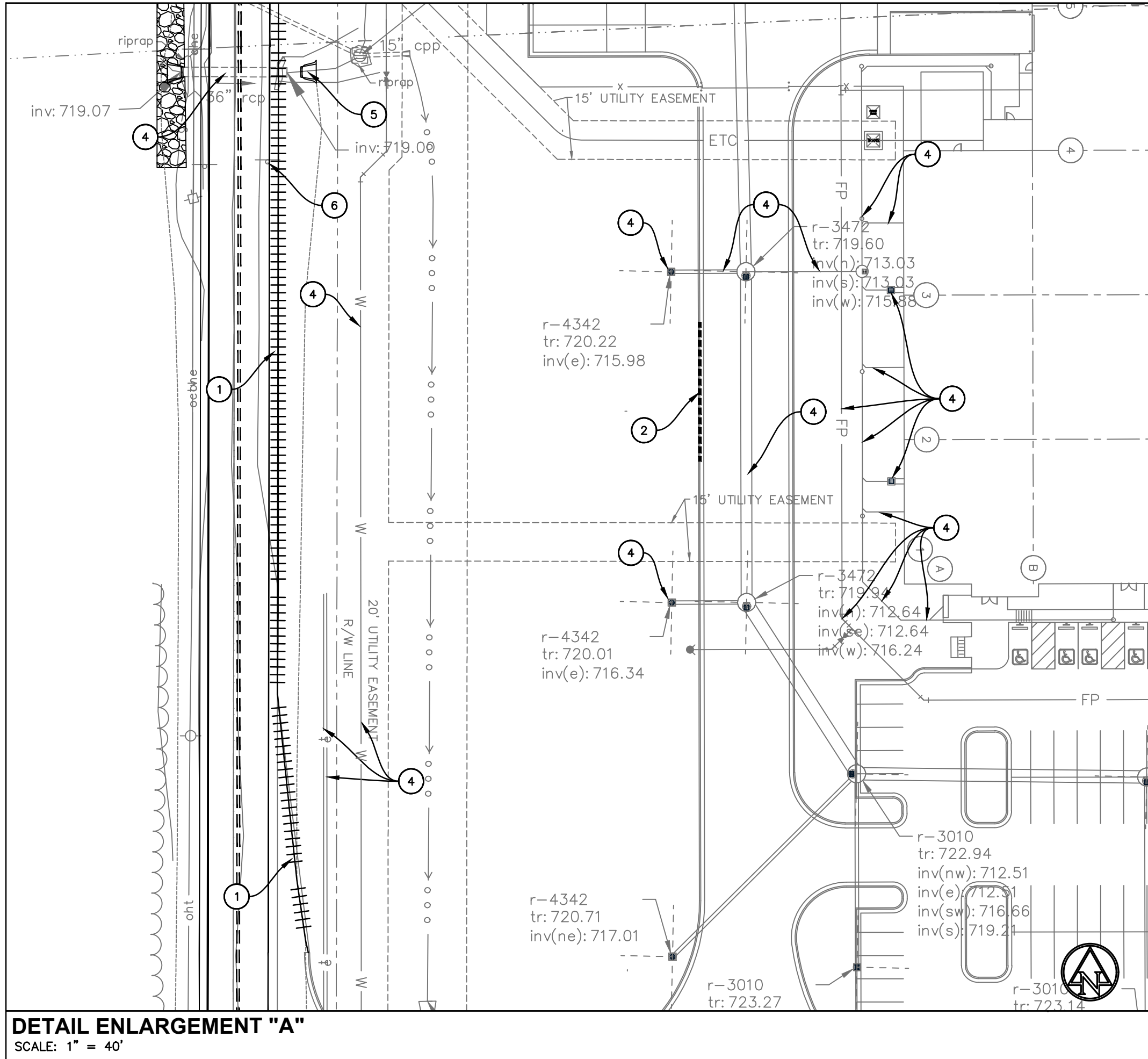
REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
NO.	DOCK STRIPING	10/05/22
NO.	CITY OF FRANKLIN REVS	11/04/22
NO.	TENANT REVISIONS	06/05/23

Project Number 2019.02788

OVERALL EXISTING TOPOGRAPHY

C100

PLOT DATE: 7/30/2024 1:05 PM
PLOT SCALE: 1" = 88.49'
DRAWING FILE: P:\2019\02798\02798.dwg
EDIT DATE: 11/4/2022
EDITED BY: AGROWLEY



EXISTING LEGEND

	BEEHIVE INLET		STAND PIPE
	COMBINATION POLE		STUMP
	ELECTRIC METER BOX		SUB SURFACE DRAIN
	GAS MARKER SIGN		TEMPORARY BENCH MARK
	GUY WIRE		TEST HOLE
	HOSE BIB		TELEPHONE MARKER SIGN
	INLET		TELEPHONE PEDESTAL
	MAILBOX		TRANSFORMER
	PINE		TREE
	POST		VENT
	POWER POLE		WELL
	RIGHT OF WAY MONUMENT		
	SIGN		

DEMOLITION LEGEND

	PAVEMENT TO BE SAWCUT
	EXISTING CURB AND GUTTER TO BE REMOVED
	EXISTING UTILITY TO BE REMOVED
	EXISTING ASPHALT TO BE REMOVED
	EXISTING CONCRETE AND BASE TO BE REMOVED

KEYNOTES

- EXISTING ASPHALT PAVEMENT AND BASE MATERIAL TO BE REMOVED (SAWCUT FOR CLEAN EDGE).
- EXISTING CONCRETE CURB AND GUTTER TO BE REMOVED.
- REMOVE EXISTING CONCRETE, BASE, CONCRETE PADS AND OTHER MISCELLANEOUS CONCRETE MATERIAL (SAWCUT FOR CLEAN EDGE)..
- PROTECT EXISTING UTILITY THROUGHOUT DURATION OF CONSTRUCTION.
- REMOVE EXISTING END SECTION, EXTEND PIPE, AND RESET END SECTION.
- REMOVE AND RELOCATE SIGN (COORDINATE WITH CITY).
- EXISTING ASPHALT PAVEMENT TO BE REMOVED (SAWCUT FOR CLEAN EDGE). STONE BASE TO REMAIN AND IMPORTED TOP SOIL TO COVER. SEEDING TO BE PROVIDED OVER TOP SOIL PER EXTENTS SHOWN ON EROSION CONTROL PLAN, SHEET C301.

- GENERAL NOTES:**
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07/26/2024	
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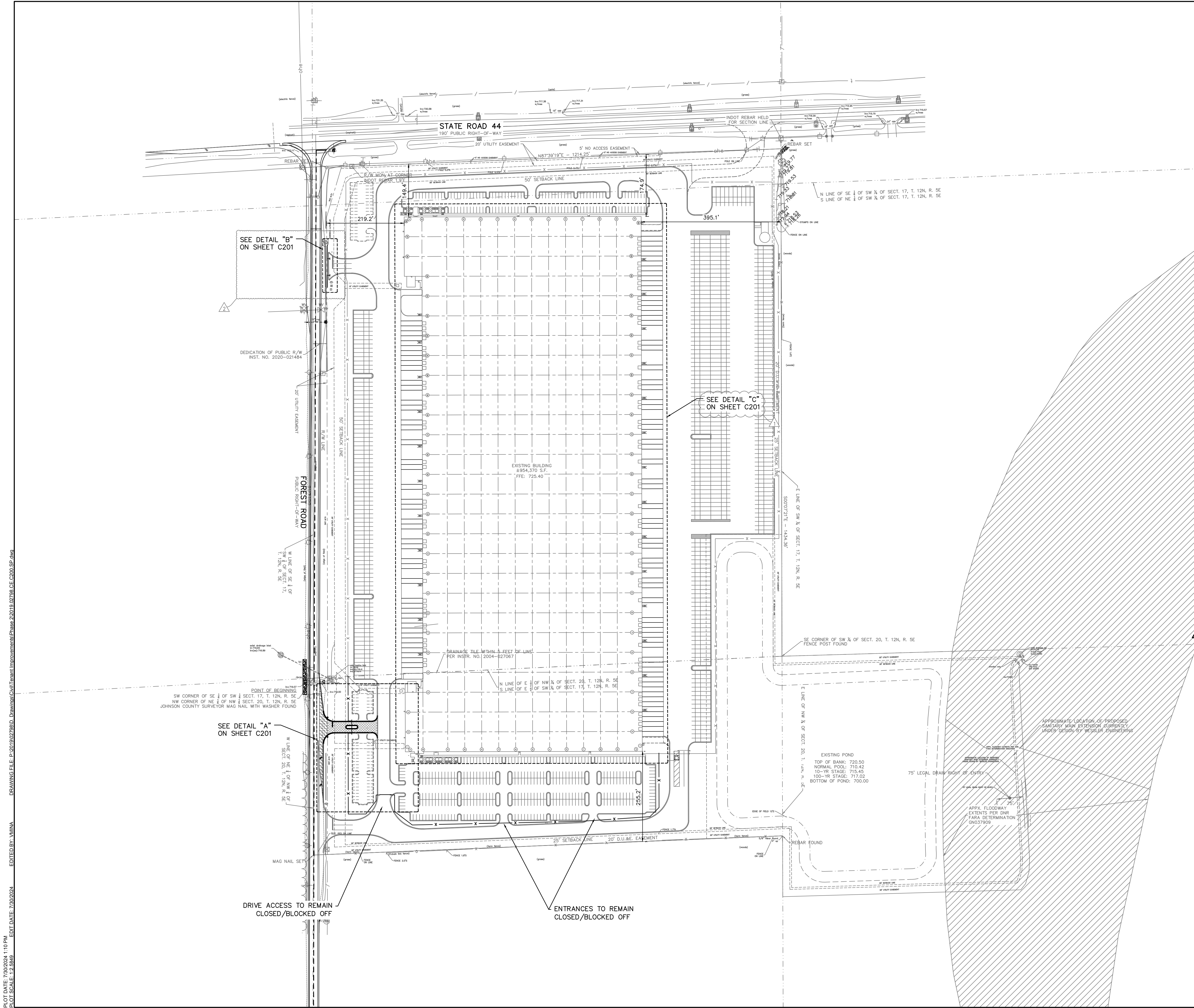
REVISION SCHEDULE

NO.	DESCRIPTION	DATE
1	DOCK STRIPING	10/05/22
2	CITY OF FRANKLIN REVS	11/04/22
3	TENANT REVISIONS	06/05/23

Project Number 2019.02798

DEMOLITION PLAN ENLARGEMENTS

C110



EXISTING LEGEND

BEEHIVE INLET	STAND PIPE
COMBINATION POLE	STUMP
ELECTRIC METER BOX	SUB SURFACE DRAIN
GAS MARKER SIGN	TEMPORARY BENCH MARK
GUY WIRE	TEST HOLE
HOSE BIB	TELEPHONE MARKER SIGN
INLET	TELEPHONE PEDESTAL
MAILBOX	TRANSFORMER
PINE	TREE
POST	VENT
POWER POLE	WELL
RIGHT OF WAY MONUMENT SIGN	

SITE LEGEND

LIGHT DUTY ASPHALT PAVEMENT	
HEAVY DUTY ASPHALT PAVEMENT	
RIGHT OF WAY ASPHALT PAVEMENT	
CONCRETE PAVEMENT	

SITE DATA TABLE

SITE ZONING:	IL
PROJECT AREA:	67.90± ACR.
BUILDING AREA:	954,240± S.F.
SITE IMPERVIOUS AREA:	43.64± ACR.
STANDARD PARKING (9'x18'):	472 SPA.
ADA PARKING PROVIDED:	15 SPA.
(INCLUDES 7 VAN ACCESSIBLE)	
TOTAL PROPOSED PARKING:	487 SPA.
DOCK PARKING (14'x60'):	111 SPA.

KEYNOTES

5. 24" CONCRETE CURB & GUTTER
- 24" CONCRETE CURB WITHOUT GUTTER
- LANE STRIPING, THERMOPLASTIC, WHITE
- LANE STRIPING, DIRECTIONAL ARROW, THERMOPLASTIC, WHITE
- 24" STOP BAR, THERMOPLASTIC, WHITE
- STOP SIGN
- CURB TURNOUT
- CURB TAPER
- PARKING SPACE (4" WHITE PAINT STRIPE)
- PAVEMENT STRIPING (COORDINATE PAINT TYPE WITH OWNER)
- GUARDRAIL
- CHAIN LINK FENCE (REFERENCE SHEET 1101 FOR FENCE AND GATE INFORMATION)

GENERAL NOTES:

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I-65 SOUTH LOGISTICS CENTER TENANT IMPROVEMENTS - PHASE II

81/89 Forest Road
Franklin, Indiana

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PROJECT PHASE:	CONSTRUCTION DOCUMENTS	

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NO.	DESCRIPTION	DATE
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Δ	CITY OF FRANKLIN REVS	11/04/22
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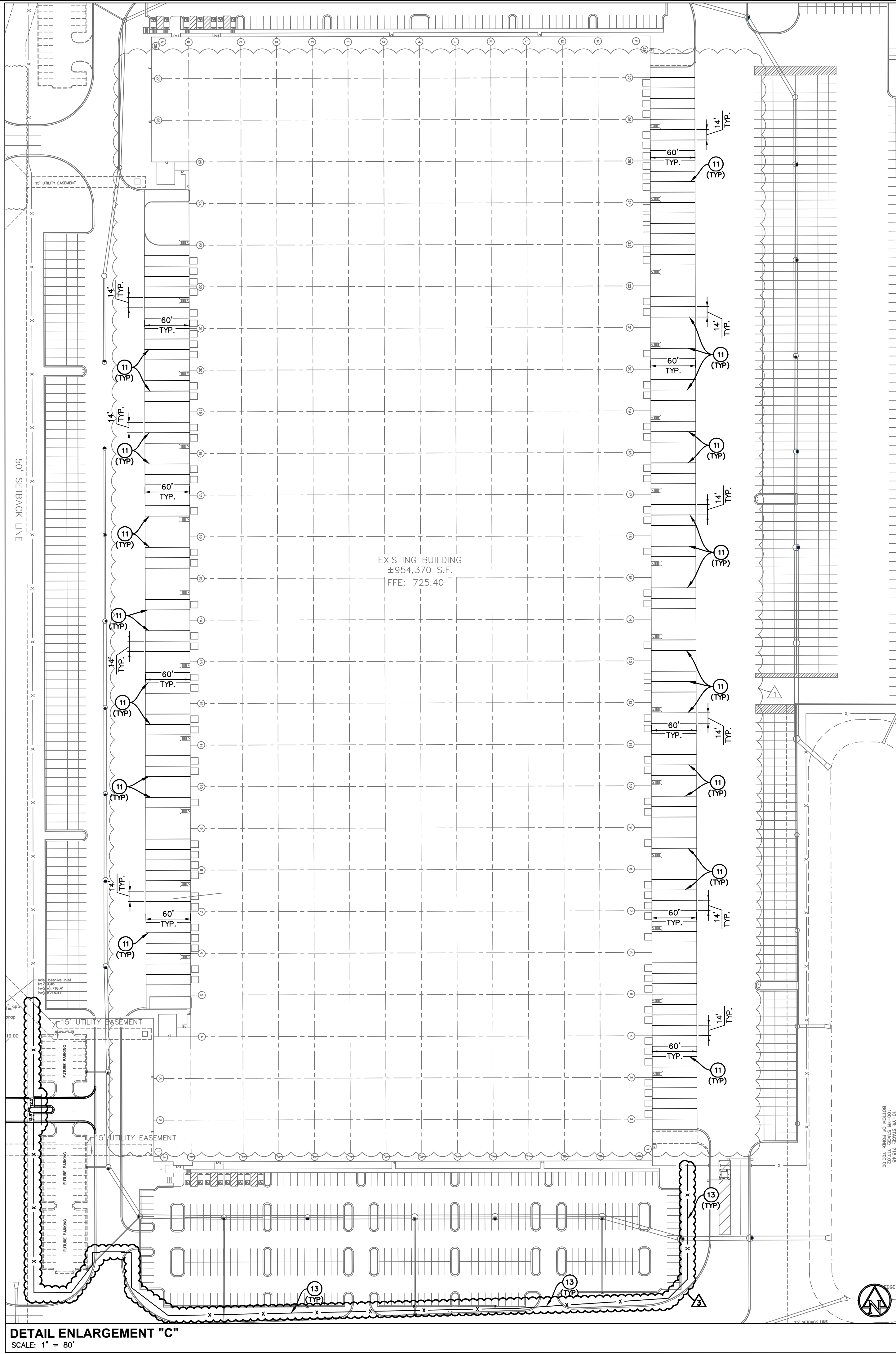
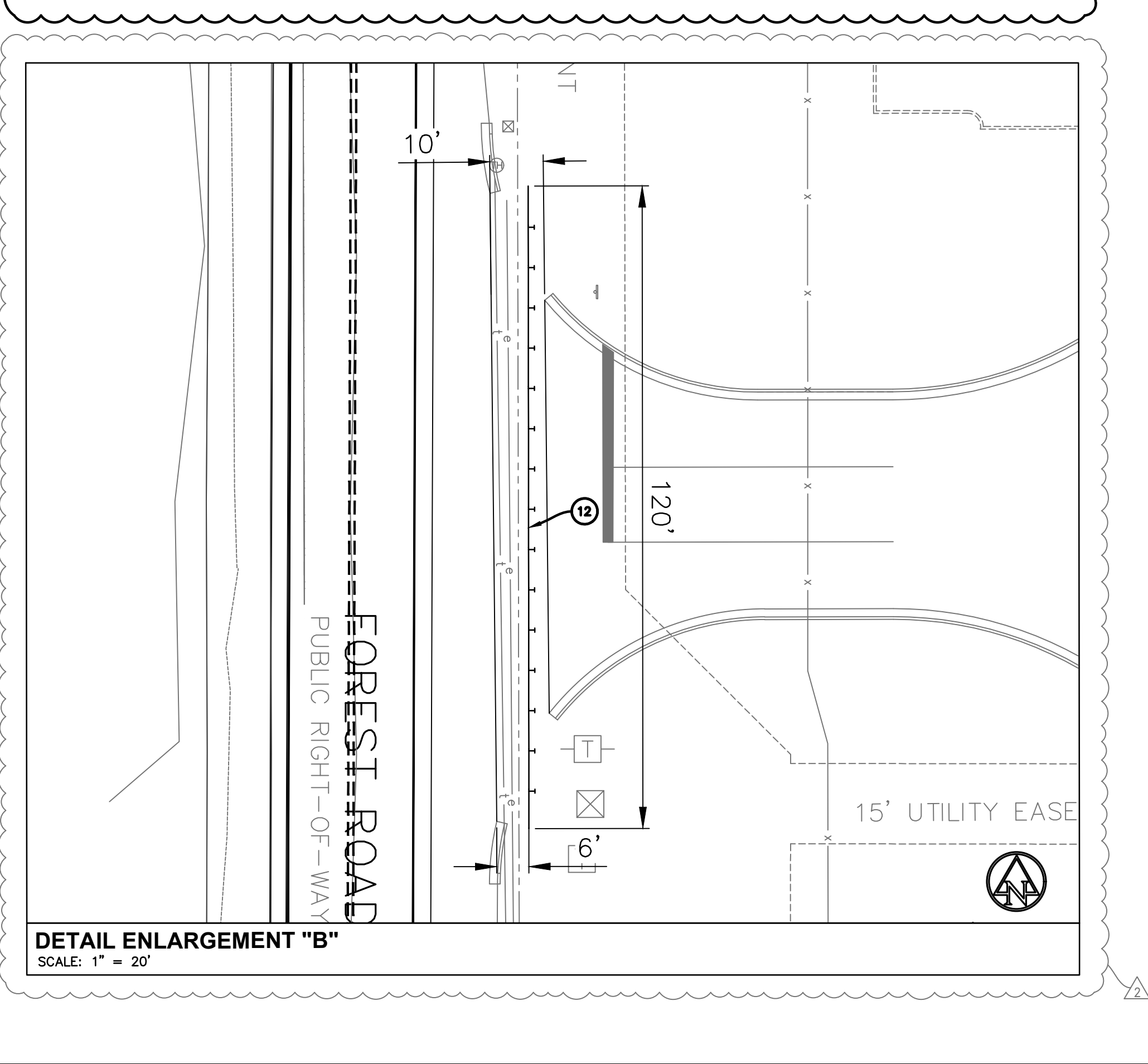
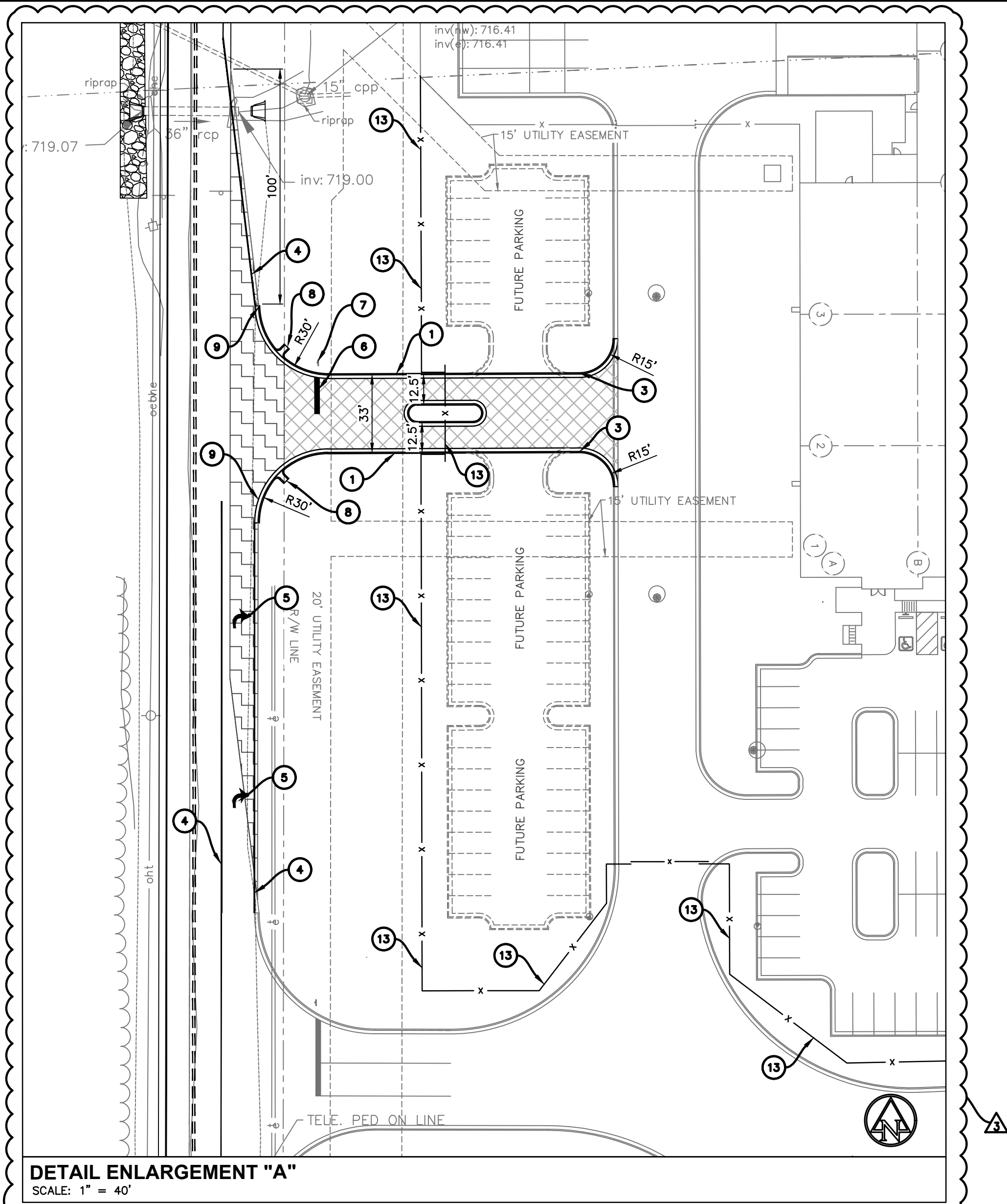
Project Number 2019.02798

OVERALL SITE PLAN

C200

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PLOT SCALE: 1"=125'
EDIT DATE: 7/30/2024
EDITED BY: WJNA

PLOT DATE: 7/20/2024 1:16 PM
PLOT SCALE: 1" = 80'
DRAWING FILE: P:\2019\02788D - Drawing\Civil\Tentat Improvements\Phase 2\2019.02788.D CE C200.SP.dwg
EDIT DATE: 7/20/2024
EDITED BY: MANA



EXISTING LEGEND	
	BEEHIVE INLET
	COMBINATION POLE
	ELECTRIC METER BOX
	GAS MARKER SIGN
	GUY WIRE
	HOSE BIB
	INLET
	MAILBOX
	PINE
	POST
	POWER POLE
	RIGHT OF WAY MONUMENT
	SIGN
	STAND PIPE
	STUMP
	SUB SURFACE DRAIN
	TEMPORARY BENCH MARK
	TEST HOLE
	TELEPHONE MARKER SIGN
	TELEPHONE PEDESTAL
	TRANSFORMER
	TREE
	VENT
	WELL

SITE LEGEND	
	LIGHT DUTY ASPHALT PAVEMENT
	HEAVY DUTY ASPHALT PAVEMENT
	RIGHT OF WAY ASPHALT PAVEMENT
	CONCRETE PAVEMENT

SITE DATA TABLE	
SITE ZONING:	IL
PROJECT AREA:	67.90± ACR.
BUILDING AREA:	954,240± S.F.
SITE IMPERVIOUS AREA:	43.64± ACR.
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ADA PARKING PROVIDED:	15 SPA.
(INCLUDES 7 VAN ACCESSIBLE)	
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- KEYNOTES**
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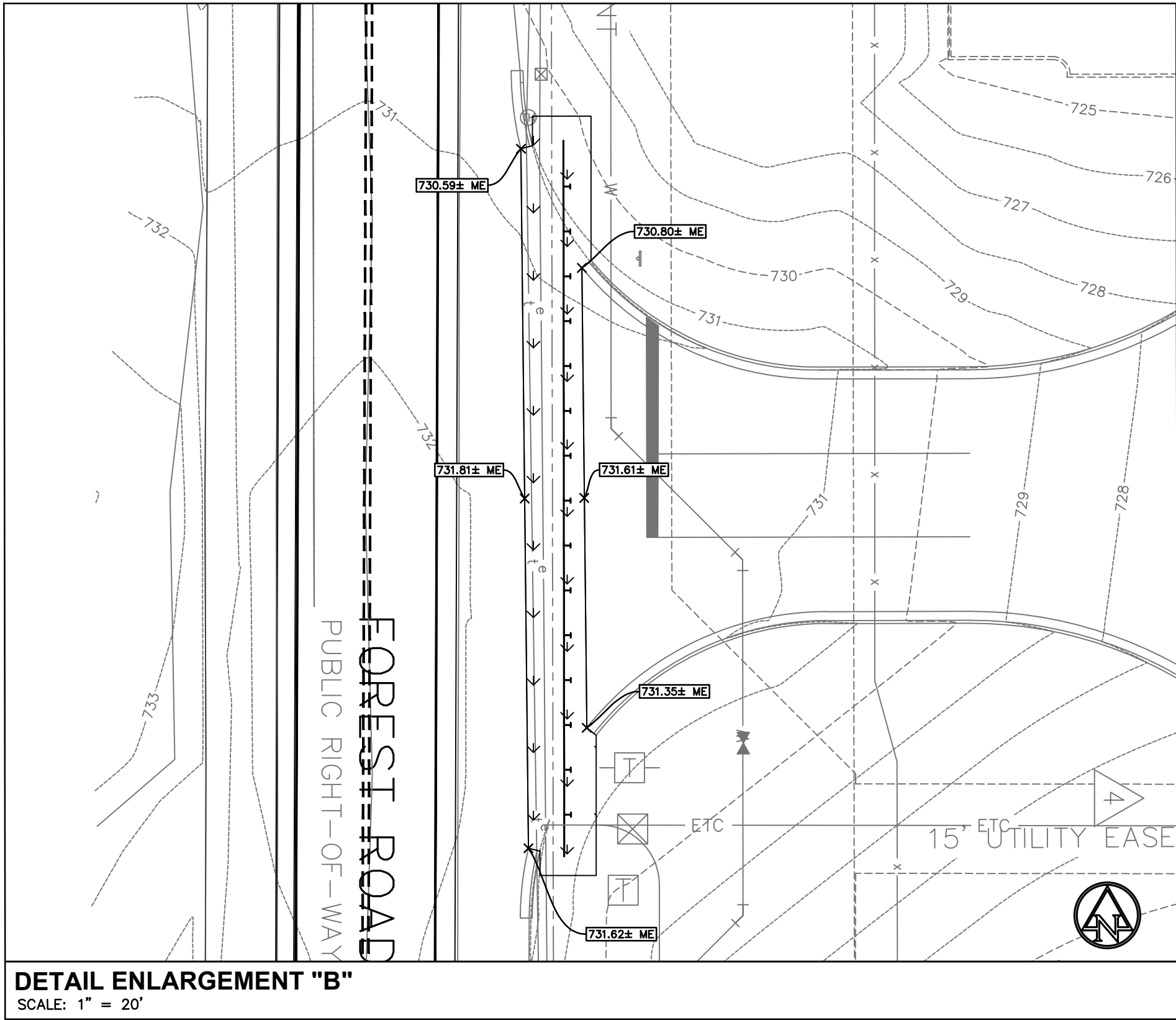
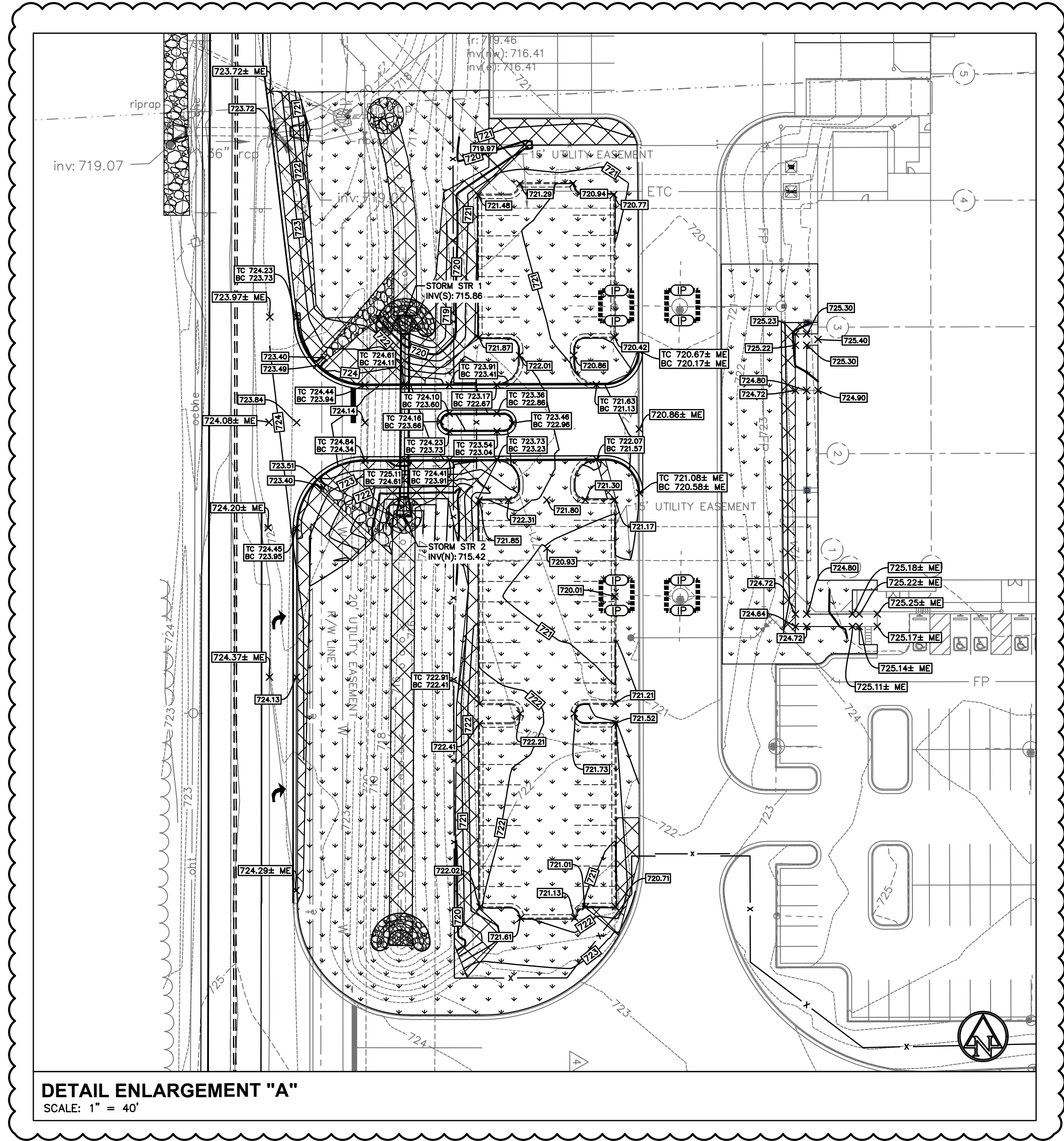
ISSUANCE INDEX		
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REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
1	DOCK STRIPING	10/05/22
2	CITY OF FRANKLIN REVS	11/04/22
3	TENANT REVISIONS	06/05/23

Project Number 2019.02798

SITE PLAN ENLARGEMENTS

C201



EXISTING LEGEND

	BEEHIVE INLET		STAND PIPE
	COMBINATION POLE		STUMP
	ELECTRIC METER BOX		SUB SURFACE DRAIN
	GAS MARKER SIGN		TEMPORARY BENCH MARK
	GUY WIRE		TEST HOLE
	HOSE BIB		TELEPHONE MARKER SIGN
	INLET		TELEPHONE PEDESTAL
	MAILBOX		TRANSFORMER
	PINE		TREE
	POST		VENT
	POWER POLE		WELL
	RIGHT OF WAY MONUMENT		
	SIGN		

BENCHMARK DATA

(NAVD '88)

HELD OPUS SOLUTION 18-83940150 FOR BASE #1000 FOR INGOS JOHNSON COUNTY, IN

ASI TBM #32
CHISELED "X" ON SW BOLT OF FIRE HYDRANT EAST SIDE OF BAKITRAM PARKWAY; ±300' SOUTH OF SR 44.
ELEV = 731.40

ASI TBM #50
MAG SPIKE SET IN WEST SIDE UTILITY POLE AT SW CORNER OF SR 44 AND COUNTY ROAD 525 E.
ELEV = 725.39

ASI TBM #51
MAG SPIKE SET IN SOUTH SIDE UTILITY POLE #40792 SOUTH SIDE OF SR 44 AND ±400' WEST OF MAILBOX #5557.
ELEV = 721.56

ASI TBM #52
CHISELED SQUARE ON WEST CORNER OF NW END OF CONCRETE HEADWALL OF BOX CULVERT UNDER SR 44 LOCATED ±600' SOUTHWEST OF COUNTY ROAD 600 E.
ELEV = 720.38

ASI TBM #53
MAG SPIKE SET IN WEST SIDE UTILITY POLE #06135 ON WEST SIDE OF OF COUNTY ROAD 525 E AND ±900' SOUTH OF SR 44.
ELEV = 735.00

ASI TBM #54
MAG SPIKE SET IN NW SIDE UTILITY POLE #12P1002 ON WEST SIDE OF COUNTY ROAD 525 E AND ±200' NORTH OF SOUTH PROPERTY LINE.
ELEV = 724.83

GRADING LEGEND

ME	MATCH EXISTING
FL	FLOWLINE
BC	BOTTOM OF CURB
TC	TOP OF CURB
HP	HIGH POINT
LP	LOW POINT
	CONTOURS
	SWALE
	CURB ELEVATIONS
	SPOT ELEVATIONS
	FLOW ARROW
	STORM SEWER LINE
	PAVEMENT UNDERDRAIN
	STRUCTURES
	RIDGE LINE

EROSION CONTROL LEGEND

	OUTLET PROTECTION
	ROCK DONUT
	INLET PROTECTION
	RIP-RAP REQUIRED

STORM SEWER NOTES:

- ALL CASTINGS SHALL BE LABELED "DUMP NO WASTE - DRAINS TO WATERWAY"
- MANNINGS COEFFICIENT
 $n = 0.012$
- THE GRANULAR BACKFILL AREAS SHOWN IN PLAN VIEW ARE AN ESTIMATE PROVIDED BY THE ENGINEER. EXACT LIMITS OF GRANULAR BACKFILL ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR BASED ON TRENCH WIDTH AND AS DIRECTED BY THE AUTHORITY HAVING JURISDICTION.

GRANULAR BACKFILL REQUIRED

GENERAL NOTES:

- CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION.
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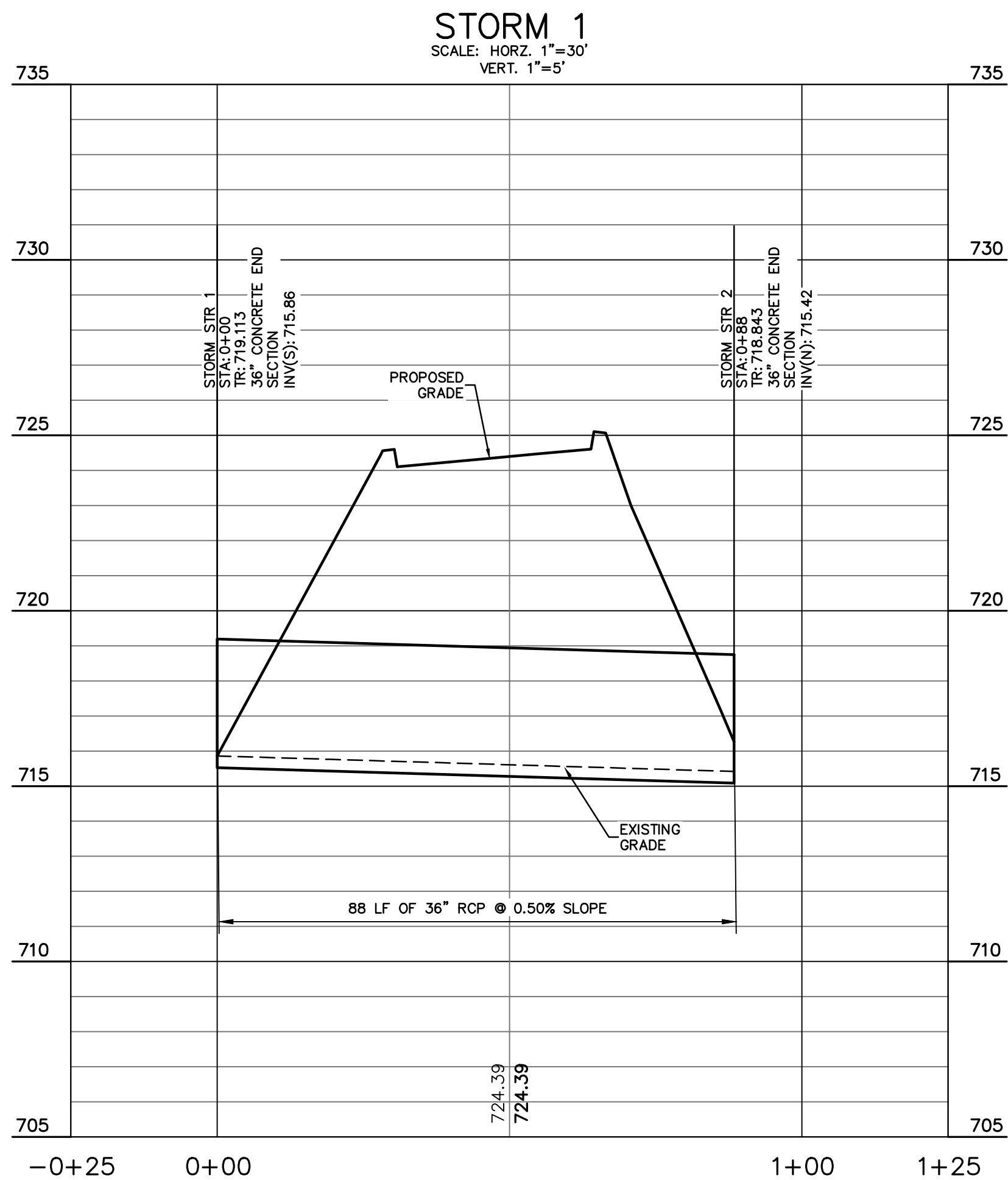
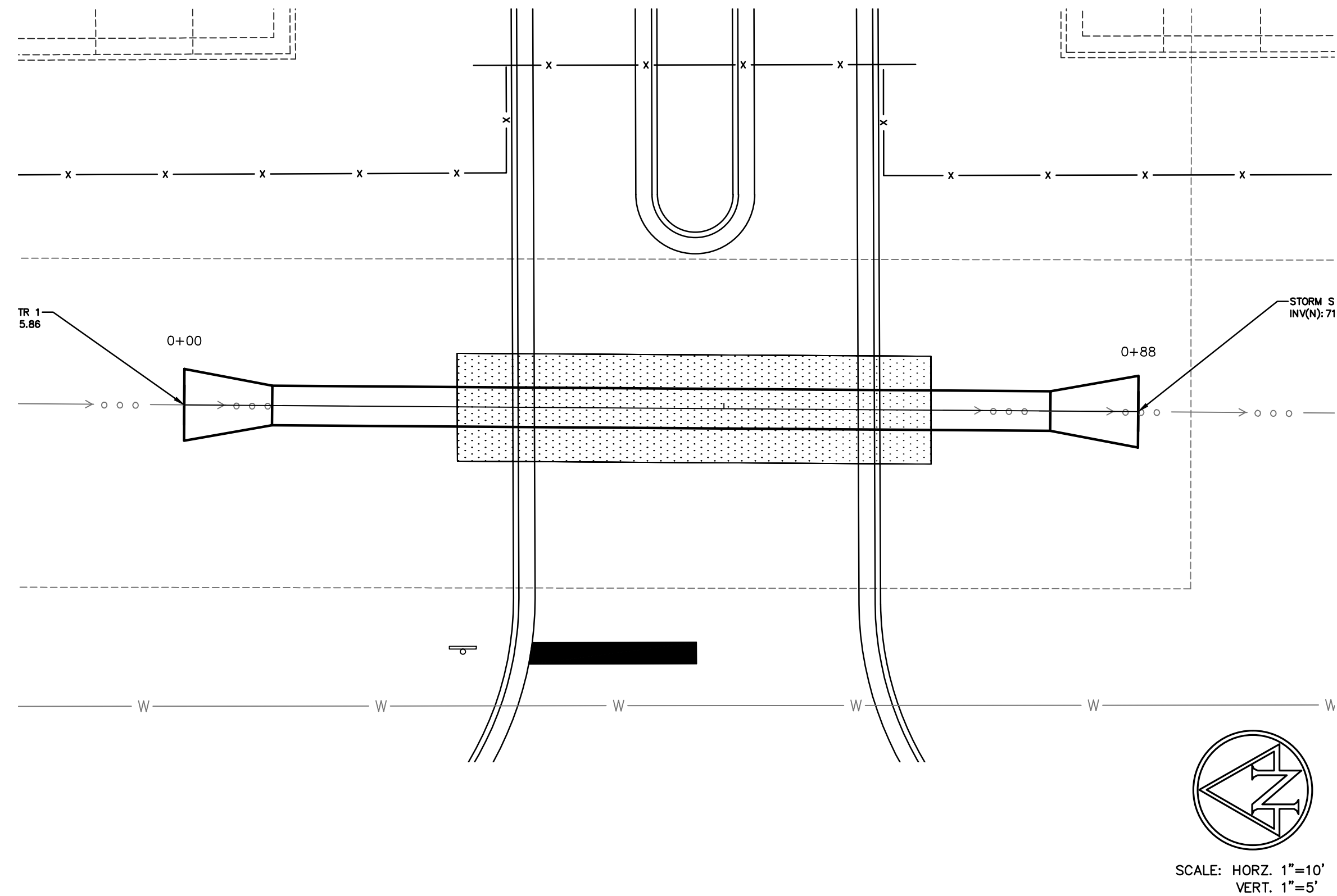
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Project Number 2019.02798

GRADING PLAN & EROSION CONTROL ENLARGEMENTS

C301

STORM STRUCTURE DATA TABLE										
NOTE: ALL CASTINGS SHALL BE LABELED "DUMP NO WASTE--DRAINS TO WATERWAY"										
STR. NO.	STRUCTURE TYPE	CASTING TYPE	TOP OF RIM	INCOMING PIPE DATA (DIRECTION) [FROM STR]	OUTGOING PIPE DATA (DIRECTION) [TO STR]	OUTGOING PIPE L.F.	OUTGOING PIPE SIZE	OUTGOING GRADE (%)	CONNECT TO STRUCT	REMARKS
1	36" CONCRETE END SECTION	-			36" RCP 715.86 (S) [2]	88'	36"	0.50%	2	END SECTION
2	36" CONCRETE END SECTION	-		36" RCP 715.42 (N) [1]						END SECTION



EXISTING LEGEND

	BEEHIVE INLET		STAND PIPE
	COMBINATION POLE		STUMP
	ELECTRIC METER BOX		SUB SURFACE DRAIN
	GAS MARKER SIGN		TEMPORARY BENCH MARK
	GUY WIRE		TEST HOLE
	HOSE BIB		TELEPHONE MARKER SIGN
	INLET		TELEPHONE PEDESTAL
	MAILBOX		TRANSFORMER
	PINE		TREE
	POST		VENT
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	RIGHT OF WAY MONUMENT		
	SIGN		

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(NAVD '88)

HELD OPUS SOLUTION 18-83940150 FOR BASE #1000 FOR INGRES JOHNSON COUNTY, IN

ASI TBM #32
CHISELED "X" ON SW BOLT OF FIRE HYDRANT EAST SIDE OF BARTRAM PARKWAY; ±300' SOUTH OF SR 44.
ELEV = 731.40

ASI TBM #50
MAG SPIKE SET IN WEST SIDE UTILITY POLE AT SW CORNER OF SR 44 AND COUNTY ROAD 525 E.
ELEV = 725.39

ASI TBM #51
MAG SPIKE SET IN SOUTH SIDE UTILITY POLE #40792 SOUTH SIDE OF SR 44 AND ±400' WEST OF MAILBOX #5557.
ELEV = 721.56

ASI TBM #52
CHISELED SQUARE ON WEST CORNER OF NW END OF CONCRETE HEADWALL OF BOX CULVERT UNDER SR 44 LOCATED ±600' SOUTHWEST OF COUNTY ROAD 600 E.
ELEV = 720.38

ASI TBM #53
MAG SPIKE SET IN WEST SIDE UTILITY POLE #06135 ON WEST SIDE OF OF COUNTY ROAD 525 E AND ±900' SOUTH OF SR 44.
ELEV = 735.00

ASI TBM #54
MAG SPIKE SET IN NW SIDE UTILITY POLE #12P1002 ON WEST SIDE OF COUNTY ROAD 525 E AND ±200' NORTH OF SOUTH PROPERTY LINE.
ELEV = 724.83

GRADING LEGEND

ME	MATCH EXISTING
FL	FLOWLINE
BC	BOTTOM OF CURB
TC	TOP OF CURB
HP	HIGH POINT
LP	LOW POINT
	CONTOURS
	SWALE
	CURB ELEVATIONS
	SPOT ELEVATIONS
	FLOW ARROW
	STORM SEWER LINE
	PAVEMENT UNDERDRAIN
	STRUCTURES
	RIDGE LINE

EROSION CONTROL LEGEND

	OUTLET PROTECTION
	ROCK DONUT
	INLET PROTECTION
	RIP-RAP REQUIRED

STORM SEWER NOTES:

- ALL CASTINGS SHALL BE LABELED "DUMP NO WASTE -- DRAINS TO WATERWAY"
- MANNINGS COEFFICIENT
 $n = 0.012$
- THE GRANULAR BACKFILL AREAS SHOWN IN PLAN VIEW ARE AN ESTIMATE PROVIDED BY THE ENGINEER. EXACT LIMITS OF GRANULAR BACKFILL ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR BASED ON TRENCH WIDTH AND AS DIRECTED BY THE AUTHORITY HAVING JURISDICTION.

GRANULAR BACKFILL REQUIRED

GENERAL NOTES:

- CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION.
- CONTRACTOR TO VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT ENGINEER IF VARIATION EXISTS.
- SEE SHEET C002 GENERAL NOTES FOR MORE INFORMATION.

!! CAUTION !!

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, and marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

CALL TOLL FREE
"811" OR 1-800-382-5544
- INDIANA UNDERGROUND -



GDI CONSTRUCTION

9775 Crosspoint Blvd
Suite 105
Indianapolis, IN 46256

317.567.6100



**AMERICAN
STRUCTUREPOINT
INC.**

9025 River Road, Suite 200 | Indianapolis, Indiana 46240
TEL 317.547.5580 | FAX 317.543.0270
www.structurepoint.com

I-65 SOUTH LOGISTICS CENTER TENANT IMPROVEMENTS - PHASE II

81/89 Forest Road
Franklin, Indiana

APPROVAL PENDING
NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

CERTIFIED BY

ISSUANCE INDEX

DATE:	07/26/2024
PROJECT PHASE:	CONSTRUCTION DOCUMENTS

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
	DOCK STRIPING	10/05/22
	CITY OF FRANKLIN REVS	11/04/22
	TENANT REVISIONS	06/05/23

Project Number 2019.02798

STRUCTURE DATA TABLE & STORM WATER PROFILE

C302

SEEDING SPECIFICATIONS

SEEDBED PREPARATION

- GRADE AND APPLY SOIL AMENDMENTS.

SEEDING FREQUENCY

- SEED FINAL GRADED AREAS DAILY WHILE SOIL IS STILL LOOSE AND MOIST.

DENSITY OF VEGETATIVE COVER

- NINETY PERCENT OR GREATER OVER THE SOIL SURFACE.

MATERIALS

- SOIL AMENDMENTS – SELECT MATERIALS AND RATES AS DETERMINED BY A SOIL TEST (CONTACT YOUR COUNTY SOIL AND WATER CONSERVATION DISTRICT OR COOPERATIVE EXTENSION OFFICE FOR ASSISTANCE AND SOIL INFORMATION, INCLUDING AVAILABLE SOIL TESTING SERVICES) OR 400 TO 600 POUNDS OF 12-12-12 ANALYSIS FERTILIZER, OR EQUIVALENT. CONSIDER THE USE OF REDUCED PHOSPHOROUS APPLICATION WHERE SOIL TESTS INDICATE ADEQUATE PHOSPHOROUS LEVELS IN THE SOIL PROFILE.
- SEED – SELECT APPROPRIATE PLANT SPECIES SEED OR SEED MIXTURES ON THE BASIS OF SOIL TYPE, SOIL pH, REGION OF THE STATE, TIME OF YEAR, AND INTENDED LAND USE OF THE AREA TO BE SEED (SEE TABLE 1).
- MULCH – STRAW, HAY, WOOD FIBER, ETC. (TO PROTECT SEEDBED, RETAIN MOISTURE, AND ENCOURAGE PLANT GROWTH). ANCHORED TO PREVENT REMOVAL BY WIND OR WATER OR COVERED WITH PREMANUFACTURED EROSION CONTROL BLANKETS.

SEEDING APPLICATIONS

SITE PREPARATION

- GRADE THE SITE TO ACHIEVE POSITIVE DRAINAGE.
- ADD TOPSOIL TO ACHIEVE NEEDED DEPTH FOR ESTABLISHMENT OF VEGETATION. (COMPOST MATERIAL MAY BE ADDED TO IMPROVE SOIL MOISTURE HOLDING CAPACITY, SOIL FRIABILITY, AND NUTRIENT AVAILABILITY.)

SEEDBED PREPARATION

- TEST SOIL TO DETERMINE pH AND NUTRIENT LEVELS.
- APPLY SOIL AMENDMENTS AS RECOMMENDED BY THE SOIL TEST AND WORK INTO THE UPPER TWO TO FOUR INCHES OF SOIL. IF TESTING IS NOT DONE, APPLY 400 TO 600 POUNDS PER ACRE OF 12-12-12 ANALYSIS FERTILIZER, OR EQUIVALENT.
- TILL THE SOIL TO OBTAIN A UNIFORM SEEDBED. USE A DISK OR RAKE, OPERATED ACROSS THE SLOPE, TO WORK THE SOIL AMENDMENTS INTO THE UPPER TWO TO FOUR INCHES OF THE SOIL.

SEEDING

OPTIMUM SEEDING DATES ARE MARCH 1 TO MAY 10 AND AUGUST 10 TO SEPTEMBER 30. PERMANENT SEEDING DONE BETWEEN MAY 10 AND AUGUST 10 MAY NEED TO BE IRRIGATED. SEEDING OUTSIDE OR BEYOND SEEDING DATES IS STILL POSSIBLE WITH THE UNDERSTANDING THAT RESEEDING OR OVERSEEDING MAY BE REQUIRED IF ADEQUATE SURFACE COVER IS NOT ACHIEVED. RESEEDING OR OVERSEEDING CAN BE EASILY ACCOMPLISHED IF THE SOIL SURFACE REMAINS WELL PROTECTED WITH MULCH.

- SELECT A SEEDING MIXTURE AND RATE FROM TABLE 1. SELECT SEED MIXTURE BASED ON SITE CONDITIONS, SOIL pH, INTENDED LAND USE, AND EXPECTED LEVEL OF MAINTENANCE.
- APPLY SEED UNIFORMLY WITH A DRILL OR CULTPACKER SEEDER OR BY BROADCASTING. PLANT OR COVER THE SEED TO A DEPTH OF ONE-FOURTH TO ONE-HALF INCH. IF DRILLING OR BROADCASTING THE SEED, ENSURE GOOD SEED-TO-SOIL CONTACT BY FIRING. THE SEEDBED WITH A ROLLER OR CULTPACKER AFTER COMPLETING SEEDING OPERATIONS. (IF SEEDING IS DONE WITH A HYDROSEEDER, FERTILIZER AND MULCH CAN BE APPLIED WITH THE SEED IN A SLURRY MIXTURE.)
- MULCH ALL SEEDBED AREAS AND USE APPROPRIATE METHODS TO ANCHOR THE MULCH IN PLACE. CONSIDER USING EROSION CONTROL BLANKETS ON SLOPING AREAS AND CONVEYANCE CHANNELS.

SEEDING MAINTENANCE

- INSPECT WITHIN 24 HOURS OF EACH RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS UNTIL THE VEGETATION IS SUCCESSFULLY ESTABLISHED. CHARACTERISTICS OF A SUCCESSFUL STAND INCLUDE VIGOROUS DARK GREEN OR BLUSH-GREEN SEEDLINGS WITH A UNIFORM VEGETATIVE COVER DENSITY OF 90 PERCENT OR MORE.
- CHECK FOR EROSION OR MOVEMENT OF MULCH.
- REPAIR DAMAGED, BARE, GULL, OR SPARSELY VEGETATED AREAS AND THEN FERTILIZE, RESEED, AND APPLY AND ANCHOR MULCH.
- IF PLANT COVER IS SPARSE OR PATCHY, EVALUATE THE PLANT MATERIALS CHOSEN, SOIL FERTILITY, MOISTURE CONDITION, AND MULCH APPLICATION; REPAIR AFFECTED AREAS EITHER BY OVERSEEDING OR PREPARING A NEW SEEDBED AND RESEEDING. APPLY AND ANCHOR MULCH ON THE NEWLY SEEDBED AREAS.
- IF VEGETATION FAILS TO GROW, CONSIDER SOIL TESTING TO DETERMINE SOIL pH OR NUTRIENT DEFICIENCY PROBLEMS. (CONTACT YOUR SOIL AND WATER CONSERVATION DISTRICT OR COOPERATIVE EXTENSION OFFICE FOR ASSISTANCE.)
- IF ADDITIONAL FERTILIZATION IS NEEDED TO GET A SATISFACTORY STAND, DO SO ACCORDING TO SOIL TEST RECOMMENDATIONS.
- ADD FERTILIZER THE FOLLOWING GROWING SEASON. FERTILIZE ACCORDING TO SOIL TEST RECOMMENDATIONS.
- FERTILIZE TURF AREAS ANNUALLY. APPLY FERTILIZER IN A SPLIT APPLICATION. FOR COOL-SEASON GRASSES, APPLY ONE-HALF OF THE FERTILIZER IN LATE SPRING AND ONE-HALF IN EARLY FALL. FOR WARM-SEASON GRASSES, APPLY ONE-THIRD IN EARLY SPRING, ONE-THIRD IN LATE SPRING, AND THE REMAINING ONE-THIRD IN MIDDLE SUMMER.

TABLE 1. PERMANENT SEEDING RECOMMENDATIONS

SEED MIXTURES	RATE PER ACRE PURE LIVE SEED	OPTIMUM SOIL pH
1. PERENNIAL RYEGRASS WHITE CLOVER*	70 LBS. 2 LBS.	5.6 TO 7.0
2. PERENNIAL RYEGRASS TALL FESCUE**	70 LBS. 2 LBS.	5.6 TO 7.0
3. TALL FESCUE** WHITE CLOVER*	70 LBS. 2 LBS.	5.5 TO 7.5

OPEN LOW-MAINTENANCE AREAS

(REMAINING IDLE MORE THAN SIX MONTHS)

SEED MIXTURES	RATE PER ACRE PURE LIVE SEED	OPTIMUM SOIL pH
1. SMOOTH BROME GRASS RED CLOVER*	35 LBS. 20 LBS.	5.5 TO 7.0
2. TALL FESCUE** WHITE CLOVER*	50 LBS. 2 LBS.	5.5 TO 7.5
3. TALL FESCUE** RED CLOVER*	50 LBS. 20 LBS.	5.5 TO 7.5
4. ORCHARD GRASS RED CLOVER*	30 LBS. 20 LBS.	5.6 TO 7.0
5. CROWN VETCH* TALL FESCUE**	12 LBS. 30 LBS.	5.6 TO 7.0

LAWNS AND HIGH-MAINTENANCE AREAS

SEED MIXTURES	RATE PER ACRE PURE LIVE SEED	OPTIMUM SOIL pH
1. BLUEGRASS	140 LBS.	5.5 TO 7.0
2. PERENNIAL RYEGRASS (TURF TYPE)	60 LBS. 90 LBS.	5.6 TO 7.0
3. TALL FESCUE (TURF TYPE)** BLUEGRASS	170 LBS. 30 LBS.	5.6 TO 7.5

SEED MIXTURES	RATE PER ACRE PURE LIVE SEED	OPTIMUM SOIL pH
1. PERENNIAL RYEGRASS WHITE*	150 LBS. 2 LBS.	5.5 TO 7.0
2. KENTUCKY BLUEGRASS SMOOTH BROMEGRASS SWITCHGRASS TIMOTHY PERENNIAL RYEGRASS WHITE CLOVER**	20 LBS. 10 LBS. 3 LBS. 4 LBS. 10 LBS. 2 LBS.	5.5 TO 7.5
3. TALL FESCUE* WHITE CLOVER**	150 LBS. 2 LBS.	5.5 TO 7.5
4. TALL FESCUE** PERENNIAL RYEGRASS KENTUCKY BLUEGRASS	150 LBS. 20 LBS. 20 LBS.	5.5 TO 7.5

*FOR BEST RESULTS: (A) LEGUME SEED SHOULD BE INOCULATED; (B) SEEDING MIXTURES CONTAINING LEGUMES SHOULD PREFERABLY BE SPRING-SEED, ALTHOUGH THE GRASS MAY BE FALL-SEED AND THE LEGUME FROST-SEED; AND (C) IF LEGUMES ARE FALL-SEED, DO SO IN EARLY FALL.

**TALL FESCUE PROVIDES LITTLE COVER FOR, AND MAY BE TOXIC TO SOME SPECIES OF WILDLIFE. THE INDIANA DEPARTMENT OF NATURAL RESOURCES RECOGNIZES THE NEED FOR ADDITIONAL RESEARCH ON ALTERNATIVES SUCH AS BUFFALOGRASS, ORCHARDGRASS, SMOOTH BROMEGRASS, AND SWITCHGRASS. THIS RESEARCH, IN CONJUNCTION WITH DEMONSTRATION AREAS, SHOULD FOCUS ON EROSION CONTROL CHARACTERISTICS, WILDLIFE TOXICITY, TURF DISABILITY, AND DROUGHT RESISTANCE.

PERMANENT SEEDING WITH MULCH

NOT TO SCALE

(REV. 01/17)

NOTES:

- AN OAT OR WHEAT COMPANION OR NURSE CROP MAY BE USED WITH ANY OF THE ABOVE PERMANENT SEEDING MIXTURES, AT THE FOLLOWING RATES:
 - A. SPRING OATS – ONE-FOURTH TO THREE-FOURTHS BUSHEL PER ACRE
 - B. WHEAT – NO MORE THAN ONE-HALF BUSHEL PER ACRE
- A HIGH POTENTIAL FOR FERTILIZER, SEED, AND MULCH TO WASH EXISTS ON STEEP BANKS, CUTS, AND IN CHANNELS AND AREAS OF CONCENTRATED FLOW.

MULCH SPECIFICATIONS

MATERIALS

TABLE 1. SLOPE STEEPNESS RESTRICTIONS

MATERIAL*	RATE PER ACRE	COMMENTS
STRAW OR HAY	2 TONS	SHOULD BE DRY, FREE OF UNDESIRABLE SEEDS. SPREAD BY HAND OR MACHINE. MUST BE CRIMPED OR ANCHORED (SEE TABLE 2).
WOOD FIBER OR CELLULOSE	1 TON	APPLY WITH A HYDRAULIC MULCH MACHINE AND USE WITH TACKING AGENT.

*MULCHING IS NOT RECOMMENDED IN CONCENTRATED FLOWS. CONSIDER EROSION CONTROL BLANKETS OR OTHER STABILIZATION METHODS.

COVERAGE

- THE MULCH SHOULD HAVE A UNIFORM DENSITY OF AT LEAST 75 PERCENT OVER THE SOIL SURFACE.

ANCHORING

TABLE 2. MULCH ANCHORING METHODS

ANCHORING METHOD*	HOW TO APPLY
MULCH ANCHORING TOOL OR FARM DISK (DULL, SERRATED, AND BLADES SET STRAIGHT)	CRIMP OR PUNCH THE STRAW OR HAY TWO TO FOUR INCHES INTO THE SOIL. OPERATE MACHINERY ON THE CONTOUR OF THE SLOPE.
CLEATING WITH DOZER TRACKS	OPERATE DOZER UP AND DOWN SLOPE TO PREVENT FORMATION OF RILLS BY DOZER CLEATS
WOOD HYDROMULCH FIBERS	APPLY ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
SYNTHETIC TACKIFIERS, BINDERS, OR SOIL STABILIZERS	APPLY ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

INSTALL NETTING IMMEDIATELY AFTER APPLYING MULCH. ANCHOR NETTING WITH STAPLES. EDGES OF NETTING STRIPS SHOULD OVERLAP WITH EACH UP-SLOPE STRIP OVERLAPPING FOUR TO SIX INCHES OVER THE ADJACENT DOWN-SLOPE STRIP. BEST SUITED TO SLOPE APPLICATIONS. IN MOST INSTANCES, INSTALLATION DETAILS ARE SITE SPECIFIC. SO MANUFACTURER'S RECOMMENDATIONS SHOULD BE FOLLOWED.

*ALL FORMS OF MULCH MUST BE ANCHORED TO PREVENT DISPLACEMENT BY WIND AND/OR WATER.

MULCH APPLICATION

- APPLY MULCH AT THE RECOMMENDED RATE SHOWN IN TABLE 1.
- SPREAD THE MULCH MATERIAL UNIFORMLY BY HAND, HAYFORK, MULCH BLOWER, OR HYDRAULIC MULCH MACHINE. AFTER SPREADING, NO MORE THAN 25 PERCENT OF THE GROUND SHOULD BE VISIBLE.
- ANCHOR STRAW OR HAY MULCH IMMEDIATELY AFTER APPLICATION. THE MULCH CAN BE ANCHORED USING ONE OF THE METHODS LISTED BELOW:
 - a. CRIMP WITH A MULCH ANCHORING TOOL, A WEIGHTED FARM DISK WITH DULL SERRATED BLADES SET STRAIGHT, OR TRACK CLEATS OF A BULLDOZER.
 - b. APPLY HYDRAULIC MULCH WITH SHORT CELLULOSE FIBERS.
 - c. APPLY A LIQUID TACKIFIER, OR
 - d. COVER WITH NETTING SECURED BY STAPLES.

MULCH MAINTENANCE

- INSPECT WITHIN 24 HOURS OF EACH RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.

- CHECK FOR EROSION OR MOVEMENT OF MULCH; REPAIR DAMAGED AREAS, RESEED, AND APPLY NEW MULCH AND ANCHOR THE MULCH IN PLACE.
- CONTINUE INSPECTIONS UNTIL VEGETATION IS FIRMLY ESTABLISHED.
- IF SEEDING IS DONE WITH A HYDROSEEDER, FERTILIZER AND MULCH CAN BE APPLIED WITH THE SEED IN A SLURRY MIXTURE.
- OTHER MORE SUBSTANTIAL STABILIZATION METHODS TO PROTECT THE AREA.

MULCH MAINTENANCE

- INSPECT WITHIN 24 HOURS OF EACH RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.

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- IF SEEDING IS DONE WITH A HYDROSEEDER, FERTILIZER AND MULCH CAN BE APPLIED WITH THE SEED IN A SLURRY MIXTURE.
- OTHER MORE SUBSTANTIAL STABILIZATION METHODS TO PROTECT THE AREA.

SEEDING SPECIFICATIONS

SEEDBED PREPARATION

- GRADE AND APPLY SOIL AMENDMENTS.

SEEDING FREQUENCY

- SEED ROUGH GRADED AREAS DAILY WHILE SOIL IS STILL LOOSE AND MOIST.

DENSITY OF VEGETATIVE COVER

- EIGHTY PERCENT OR GREATER OVER THE SOIL SURFACE.

MATERIALS

- SOIL AMENDMENTS – SELECT MATERIALS AND RATES AS DETERMINED BY A SOIL TEST (CONTACT YOUR COUNTY SOIL AND WATER CONSERVATION DISTRICT OR COOPERATIVE EXTENSION OFFICE FOR ASSISTANCE AND SOIL INFORMATION, INCLUDING AVAILABLE SOIL TESTING SERVICES) OR 400 TO 600 POUNDS OF 12-12-12 ANALYSIS FERTILIZER, OR EQUIVALENT. CONSIDER THE USE OF REDUCED PHOSPHOROUS APPLICATION WHERE SOIL TESTS INDICATE ADEQUATE PHOSPHOROUS LEVELS IN THE SOIL PROFILE.
- SEED – SELECT APPROPRIATE PLANT SPECIES SEED OR SEED MIXTURES ON THE BASIS OF QUICK GERMINATION, GROWTH, AND TIME OF YEAR TO BE SEED (SEE TABLE 1).
- MULCH – STRAW, HAY, WOOD FIBER, ETC. (TO PROTECT SEEDBED, RETAIN MOISTURE, AND ENCOURAGE PLANT GROWTH). ANCHORED TO PREVENT REMOVAL BY WIND OR WATER OR COVERED WITH MANUFACTURED EROSION CONTROL BLANKETS.

TABLE 1. SLOPE STEEPNESS RESTRICTIONS

SEED SPECIES*	RATE PER ACRE	PLANTING DEPTH	OPTIMUM DATES**
WHEAT OR RYE	150 LBS.	1 TO 1-1/2 INCHES	SEPT. 15-OCT. 30
SPRING OATS	100 LBS.	1 INCH	MARCH 1-APRIL 15
ANNUAL RYEGRASS	40 LBS.	1/4 INCH	MARCH 1-MAY 1
GERMAN MILLET	40 LBS.	1 TO 2 INCHES	AUG. 1-SEPT. 1
SUDANGRASS	35 LBS.	1 TO 2 INCHES	MAY 1-JULY 30
BUCKWHEAT	60 LBS.	1 TO 2 INCHES	APRIL 15-JULY 1
CORN (BROADCAST)	300 LBS.	1 TO 2 INCHES	MAY 11-AUG. 10
SORGHUM	35 LBS.	1 TO 2 INCHES	MAY 1-JULY 15

*PERENNIAL SPECIES MAY BE USED AS A TEMPORARY COVER, ESPECIALLY IF THE AREA TO BE SEEDBED WILL REMAIN IDLE FOR MORE THAN ONE YEAR.

**SEEDING DONE OUTSIDE THE OPTIMUM SEEDING DATES INCREASES THE CHANCES OF SEEDING FAILURE. DATES MAY BE EXTENDED OR SHORTENED BASED ON THE LOCATION OF THE PROJECT WITHIN THE STATE.

NOTES:

MULCH ALONE IS AN ACCEPTABLE TEMPORARY COVER AND MAY BE USED IN LIEU OF TEMPORARY SEEDING, PROVIDED THAT IT IS APPROPRIATELY ANCHORED.

A HIGH POTENTIAL FOR FERTILIZER, SEED, AND MULCH TO WASH EXISTS ON STEEP BANKS, CUTS, AND IN CHANNELS AND AREAS OF CONCENTRATED FLOW.

SEEDING APPLICATION

SEEDBED PREPARATION

- TEST SOIL TO DETERMINE pH AND NUTRIENT LEVELS.
- APPLY SOIL AMENDMENTS AS RECOMMENDED BY THE SOIL TEST. IF TESTING IS NOT DONE, APPLY 400 TO 600 POUNDS PER ACRE OF 12-12-12 ANALYSIS FERTILIZER, OR EQUIVALENT.
- WORK THE SOIL AMENDMENTS INTO THE UPPER TWO TO FOUR INCHES OF THE SOIL WITH A DISK OR RAKE OPERATED ACROSS THE SLOPE.

SEEDING

- SELECT A SEED SPECIES OR AN APPROPRIATE SEED MIXTURE AND APPLICATION RATE FROM TABLE 1.
- APPLY SEED UNIFORMLY WITH A DRILL OR CULTPACKER SEEDER OR BY BROADCASTING. PLANT OR COVER SEED TO THE DEPTH SHOWN IN TABLE 1.

NOTES:

- IF DRILLING OR BROADCASTING THE SEED, ENSURE GOOD SEED-TO-SOIL CONTACT BY FIRING THE SEEDBED WITH A ROLLER OR CULTPACKER AFTER COMPLETING SEED OPERATIONS.
- DAILY SEEDING WHEN THE SOIL IS MOIST IS USUALLY MOST EFFECTIVE.
- IF SEEDING IS DONE WITH A HYDROSEEDER, FERTILIZER AND MULCH CAN BE APPLIED WITH THE SEED IN A SLURRY MIXTURE.

- APPLY MULCH AND ANCHOR IT IN PLACE.

SEEDING MAINTENANCE

- INSPECT WITHIN 24 HOURS OF EACH RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
- CHECK FOR EROSION OR MOVEMENT OF MULCH AND REPAIR IMMEDIATELY.
- MONITOR FOR EROSION DAMAGE AND ADEQUATE COVER (80 PERCENT DENSITY); RESEED, FERTILIZE, AND APPLY MULCH WHERE NECESSARY.
- IF NITROGEN DEFICIENCY IS APPARENT, TOP-DRESS FALL SEEDED WHEAT OR RYE SEEDING WITH 50 POUNDS PER ACRE OF NITROGEN IN FEBRUARY OR MARCH.

TEMPORARY SEEDING WITH MULCH

NOT TO SCALE

(REV. 01/17)

SPECIFICATIONS

NOTE: ALTERNATIVE SUPPORT SYSTEMS MAY BE SUBSTITUTED FOR HARDWOOD POSTS AND CROSS BRACES.

CONTRIBUTING DRAINAGE AREA

- ONE ACRE MAXIMUM.

EFFECTIVE LIFE

- SIX MONTHS (MAXIMUM).

CAPACITY

- RUNOFF FROM A TWO-YEAR FREQUENCY, 24-HOUR STORM EVENT ENTERING A STORM DRAIN WITHOUT BYPASS FLOW.

GEOTEXTILE STRUCTURE

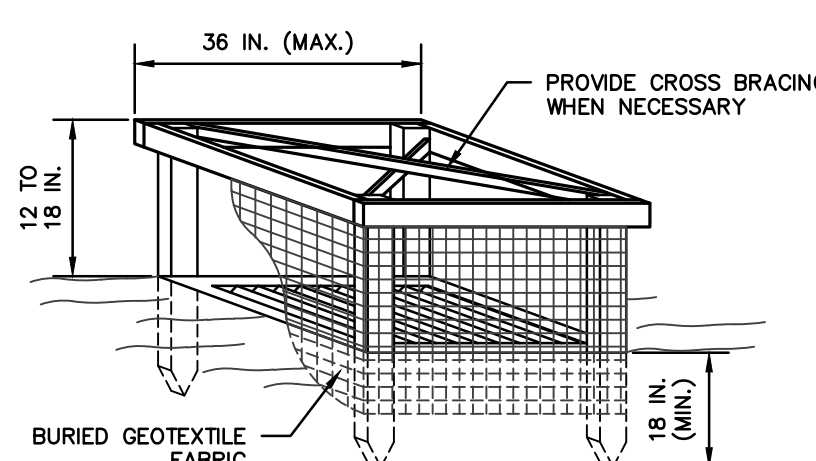
- HEIGHT – 12 TO 18 INCHES, MEASURED FROM THE TOP OF STORM DRAIN INLET.
- POST SPACING – 36-INCH MAXIMUM SPACING BETWEEN POSTS.
- FRAME SUPPORT – BRACING TO STRENGTHEN INTEGRITY OF THE STRUCTURE. (STRUCTURE MUST WITHSTAND 1½-FOOT HEAD OF WATER AND SEDIMENT WITHOUT COLLAPSING OR WITHSTANDING.)

MATERIALS

- SUPPORT POSTS
 - SET 2 INCH OR 2 x 4 INCH HARDWOOD POSTS.
 - THREE FEET LENGTH, MINIMUM.
 - 2 INCH OR 1 x 3 INCH HARDWOOD CROSS BRACING LUMBER.
 - LATHE.
 - STAPLES OR NAILS.
- GEOTEXTILE FABRIC.

TABLE 2. GEOTEXTILE FABRIC SPECIFICATIONS FOR SILT FENCE (MINIMUM)

PHYSICAL PROPERTY	WOVEN GEOTEXTILE FABRIC	NON-WOVEN GEOTEXTILE FABRIC
FILTERING EFFICIENCY	85%	85%
UV RESISTANCE (INHIBITORS AND STABILIZERS TO ENSURE SIX MONTH MINIMUM LIFE AT TEMPERATURES 0° TO 120° F)	70%	85%
TEXTILE STRENGTH AT 20% ELONGATION STANDARD STRENGTH EXTRA STRENGTH	30 LBS. PER LINEAL INCH 50 LBS. PER LINEAL INCH	50 LBS. PER LINEAL INCH 70 LBS. PER LINEAL INCH
SLURRY FLOW RATE	0.3 GAL./MIN./SQUARE FOOT	4.5 GAL./MIN./SQUARE FOOT
WATER FLOW RATE	15 GAL./MIN./SQUARE FOOT	220 GAL./MIN./SQUARE FOOT



SILT FENCE INLET PROTECTION

NOT TO SCALE

(REV. 01/17)

INSTALLATION

- DO AN EIGHT-INCH DEEP, FOUR-INCH WIDE TRENCH AROUND THE PERIMETER OF THE INLET.
- IF USING PRE-ASSEMBLED GEOTEXTILE FABRIC AND POSTS, DRIVE THE POSTS INTO THE SOIL, TIGHTLY STRETCHING THE GEOTEXTILE FABRIC BETWEEN POSTS AS EACH IS DRIVEN. (POSTS MUST BE PLACED ON THE INLET SIDE OF THE ANCHOR TRENCH WITH THE GEOTEXTILE FABRIC ON THE SIDE OF THE TRENCH FARTHEST FROM THE INLET.)

NOTE: IF ASSEMBLING THE GEOTEXTILE FABRIC AND POSTS ON-SITE, DRIVE THE POSTS INTO THE SOIL AND THEN SECURE THE GEOTEXTILE FABRIC TO THE POSTS BY PLACING A PIECE OF LATHE OVER THE FABRIC AND FASTENING IT TO THE POST (STRETCHING THE FABRIC BETWEEN POSTS AS IT IS FASTENED).

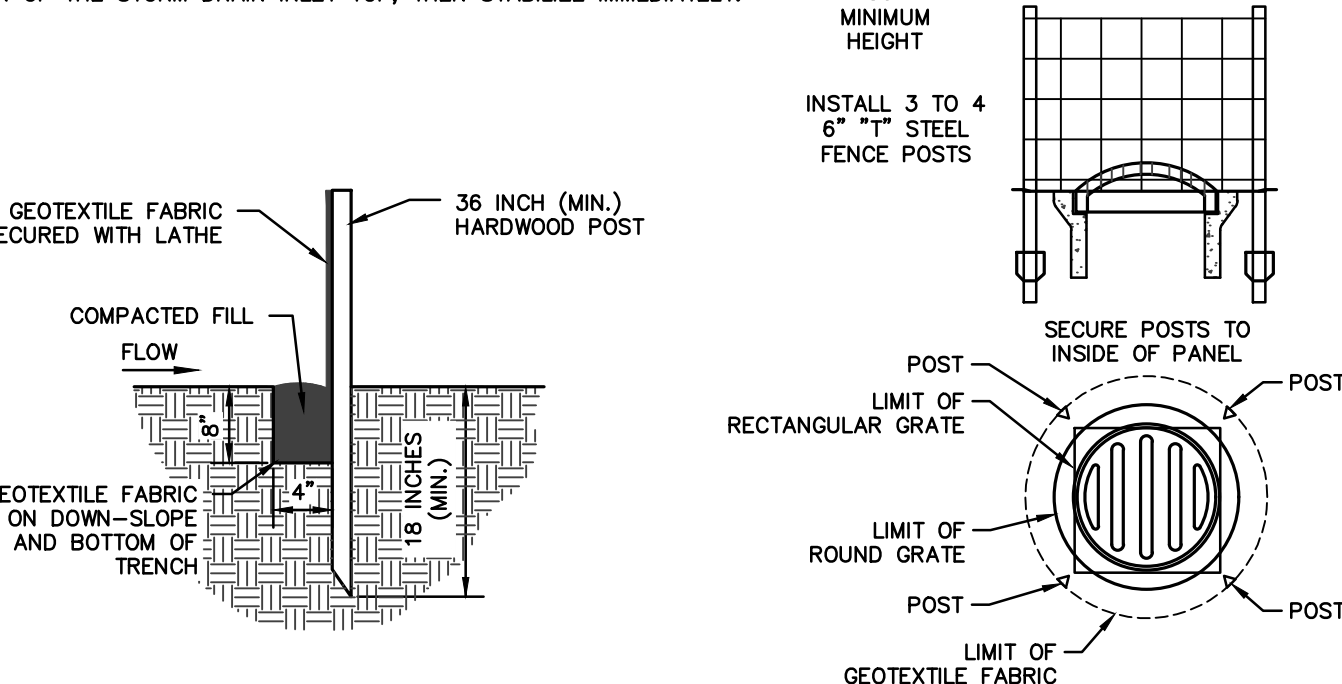
- USE THE WRAP JOIN METHOD WHEN JOINING POSTS.
- PLACE THE BOTTOM 12 INCHES OF GEOTEXTILE FABRIC INTO THE EIGHT-INCH DEEP TRENCH, LAYING THE REMAINING FOUR INCHES IN THE BOTTOM OF THE TRENCH AND EXTENDING AWAY FROM THE INLET.
- BACKFILL THE TRENCH WITH SOIL MATERIAL AND COMPACT IT IN PLACE.
- BRACE THE POSTS BY NAILING BRACES INTO EACH CORNER POST OR UTILIZE RIGID PANELS TO SUPPORT FABRIC.

NOTE: IN SITUATIONS WHERE STORM WATER MAY BYPASS THE STRUCTURE, EITHER:

- SET THE TOP OF THE GEOTEXTILE FABRIC FILTER AT LEAST SIX INCHES LOWER THAN THE GROUND ELEVATION ON THE DOWN-SLOPE SIDE OF THE STORM DRAIN INLET.
- BUILD A TEMPORARY DIKE, COMPACTED TO SIX INCHES HIGHER THAN THE FABRIC, ON THE DOWN-SLOPE SIDE OF THE STORM DRAIN INLET, AND/OR
- USE IN CONJUNCTION WITH EXCAVATED DROP INLET PROTECTION.

MAINTENANCE

- INSPECT DAILY.
- INSPECT GEOTEXTILE FABRIC AND MAKE NEEDED REPAIRS IMMEDIATELY.
- REMOVE SEDIMENT FROM POOL AREA TO PROVIDE STORAGE FOR THE NEXT STORM EVENT. AVOID DAMAGING OR UNDERCUTTING FABRIC DURING SEDIMENT REMOVAL.
- WHEN CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE SEDIMENT, PROPERLY DISPOSE OF ALL CONSTRUCTION MATERIAL, GRADE AREA TO THE ELEVATION OF THE STORM DRAIN INLET TOP, THEN STABILIZE IMMEDIATELY.



NOTE: THIS MEASURE IS NOT RECOMMENDED FOR PAVED SURFACES DUE TO INABILITY TO ENTRENCH THE FABRIC AND LACK OF AN ANCHORING SYSTEM.



GDI CONSTRUCTION

9775 Crosspoint Blvd
Suite 105
Indianapolis, IN 46256

317.567.6100



9025 River Road, Suite 200 | Indianapolis, Indiana 46240
TEL 317.547.5580 | FAX 317.543.0270
www.structurepoint.com

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CERTIFIED BY

ISSUANCE INDEX

DATE:
07/26/2024
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
1	DOCK STRIPING	10/05/22
2	CITY OF FRANKLIN REVS	11/04/22
3	TENANT REVISIONS	06/05/23

Project Number 2019.02798

EROSION CONTROL
DETAILS

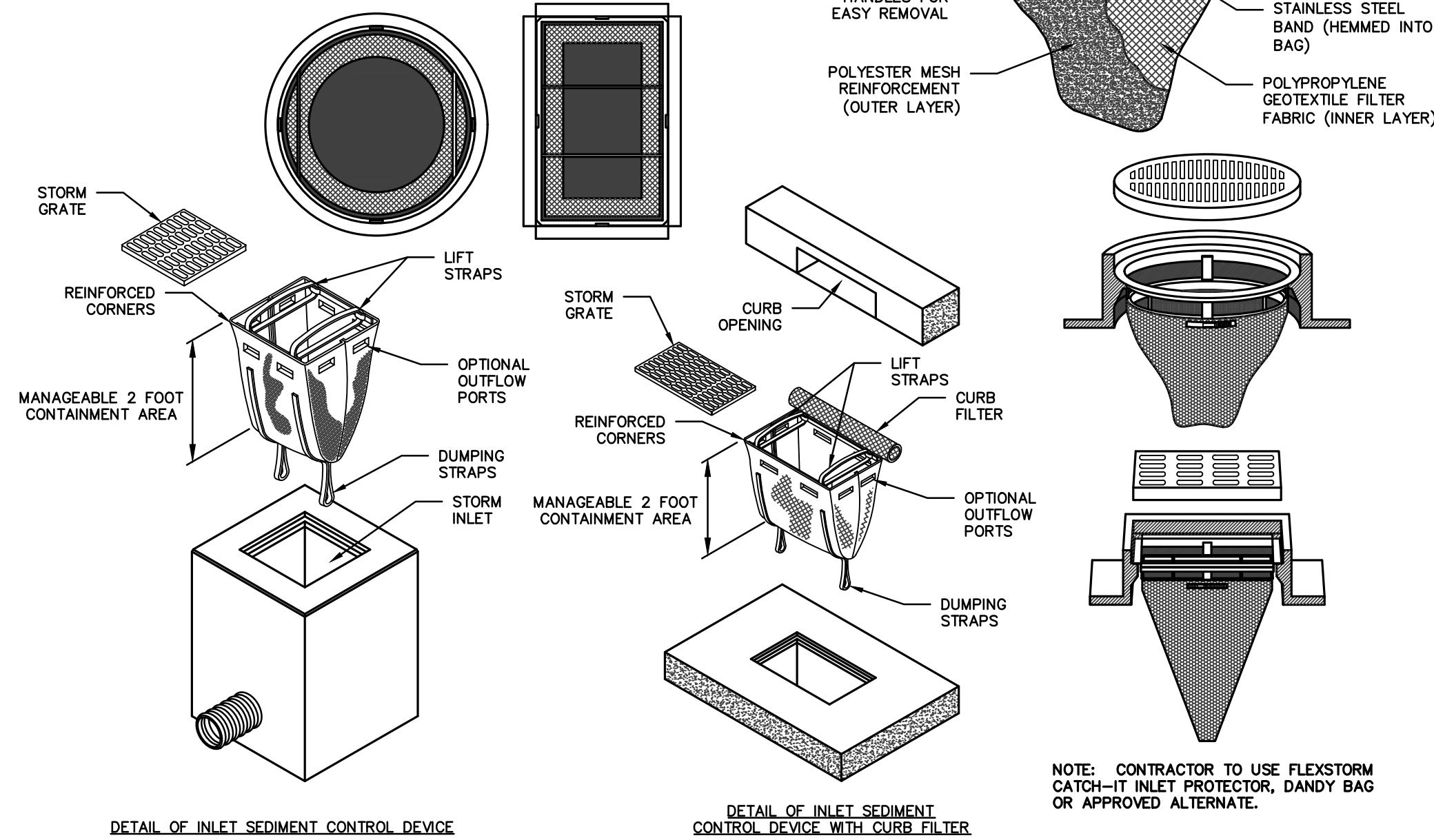
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EDIT DATE: 9/14/2022
EDITED BY: ATOMPSON

- INSTALLATION**
1. REMOVE THE STORM SEWER GRATE AND PLACE THE FRAME INTO THE GRATE OPENING.
 2. PLACE GEOTEXTILE FABRIC INTO THE FRAME AND SECURE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
 3. REPLACE THE STORM SEWER GRATE.

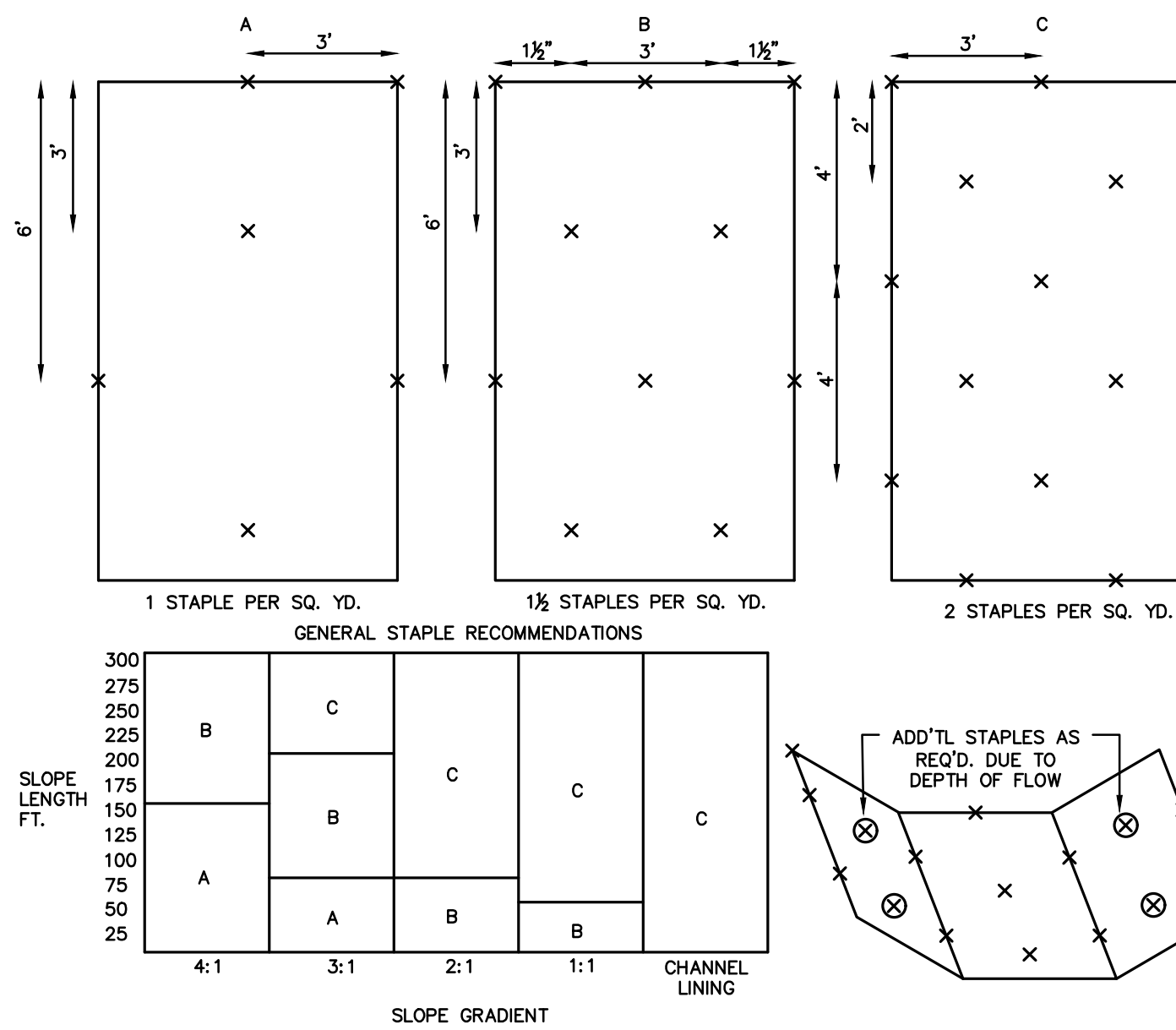
MAINTENANCE

- INSPECT DAILY.
- REMOVE ACCUMULATED SEDIMENT AND DEBRIS AFTER EACH STORM EVENT. DEPOSIT SEDIMENT IN AN AREA WHERE IT WILL NOT RE-ENTER THE PAVED AREA OR STORM DRAINS.
- REPLACE OR CLEAN GEOTEXTILE FABRIC AS NEEDED.
- WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE INLET PROTECTION.



DROP-IN INLET PROTECTION
NOT TO SCALE (REV. 01/17)

DROP-IN INLET PROTECTION
TO BE USED IN PAVED AREAS.



SPECIFICATIONS

EFFECTIVE LIFE

- THE FUNCTIONAL LIFE OF AN EROSION CONTROL BLANKET IS DEPENDENT ON THE MATERIALS USED.

ANCHORING

- STAPLES, PINS OR STAKES USED TO PREVENT MOVEMENT OR DISPLACEMENT OF BLANKET. (FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR SPECIFIC APPLICATIONS.)

MATERIALS

- ORGANIC (STRAW, EXCELSIOR, WOVEN PAPER, COCONUT FIBER, ETC.) OR SYNTHETIC MULCH INCORPORATED WITH A POLYPROPYLENE, NATURAL FIBER OR SIMILAR NETTING MATERIAL. (THE NETTING MAY BE BIODEGRADABLE, PHOTODEGRADABLE OR PERMANENT.)

NOTE: SOME EROSION CONTROL BLANKET NETTINGS MAY POSE A THREAT TO CERTAIN SPECIES OF WILDLIFE IF THEY BECOME ENTANGLED IN THE NETTING MATRIX.

- SIX TO 12-INCH STAPLES, PINS, OR STAKES.

INSTALLATION

1. SELECT THE TYPE AND WEIGHT OF EROSION CONTROL BLANKET TO FIT THE SITE CONDITIONS (E.G., SLOPE, CHANNEL, FLOW VELOCITY) PER THE MANUFACTURER'S RECOMMENDATIONS.
2. PREPARE THE SEEDBED, ADD SOIL AMENDMENTS, AND PERMANENTLY SEED THE AREA IMMEDIATELY FOLLOWING SEEDBED PREPARATION.
3. LAY EROSION CONTROL BLANKETS ON THE SEEDBED AREA SO THAT THEY ARE IN CONTINUOUS CONTACT WITH THE SOIL. WITH EACH UP-SLOPE OR UP-STREAM BLANKET OVERLAPPING THE DOWN-SLOPE OR DOWN-STREAM BLANKET BY AT LEAST EIGHT INCHES, OR FOLLOW MANUFACTURER'S RECOMMENDATIONS.
4. TUCK THE UPPERMOST EDGE OF THE UPPER BLANKETS INTO A CHECK SLOT (SLIT TRENCH), BACKFILL WITH SOIL AND TAMP DOWN. IN CERTAIN APPLICATIONS, THE MANUFACTURER MAY REQUIRE ADDITIONAL CHECK SLOTS AT SPECIFIC LOCATIONS DOWN SLOPE FROM THE UPPERMOST EDGE OF THE UPPER BLANKETS.
5. ANCHOR THE BLANKETS IN PLACE BY DRIVING STAPLES, PINS, OR STAKES THROUGH THE BLANKET AND INTO THE UNDERLYING SOIL. FOLLOW AN ANCHORING PATTERN APPROPRIATE FOR THE SITE CONDITIONS AND AS RECOMMENDED BY THE MANUFACTURER.

MAINTENANCE

- INSPECT WITHIN 24 HOURS OF EACH RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
- CHECK FOR EROSION OR DISPLACEMENT OF THE BLANKET.
- IF ANY AREA SHOWS EROSION, PULL BACK THAT PORTION OF THE BLANKET COVERING THE ERODED AREA, ADD SOIL AND TAMP, RESEED THE AREA, REPLACE AND STAPLE THE BLANKET.

NOTES

CHANNEL LININGS UTILIZE STAPLE PATTERN "C" WITH ADDITIONAL STAPLES ON SIDE SLOPES AT PROJECTED WATER LINE.

STAPLE PATTERNS APPLY TO ALL NORTH AMERICAN GREEN EROSION CONTROL BLANKETS. STAPLE PATTERNS MAY VARY DEPENDING UPON SOIL TYPE AND AVERAGE RAINFALL.

AT SLOPE LENGTHS GREATER THAN 300 FEET OR WHERE DRAINAGE OVER LARGE AREAS IS DIRECTED ONTO THE BLANKETS, STAPLE PATTERN "C" SHOULD BE UTILIZED.

EROSION CONTROL BLANKET
NOT TO SCALE (REV. 01/17)



GDI CONSTRUCTION

9775 Crosspoint Blvd
Suite 105
Indianapolis, IN 46256

317.567.6100



**AMERICAN
STRUCTUREPOINT
INC.**

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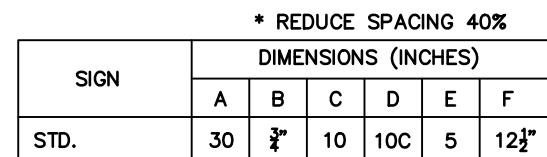
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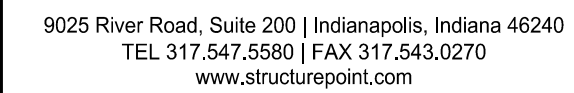
PRECAST CONCRETE
NOT TO SCALE

* RADIUS COMES FURNISHED BY MANUFACTURER									
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PRECAST CONCRETE END SECTION DETAIL
NOT TO SCALE (REV. 06/18)



STOP SIGN DETAIL
NOT TO SCALE (REV. 05/18)



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SITE PLAN DETAILS

C600