

CITY OF SHELBYVILLE

Adam M Rude
Director



Allan Henderson
Deputy Director

PLAN COMMISSION

MEETING DATE: 9/28/2020

Case Number & Name:	PC 2020-09; Zaxby's; Site Development Plan			
Petitioner's Name:	Barred Rock, Inc. d.b.a. Zaxby's			
Owner's Name:	Indiana Land Trust			
Petitioner's Representative:	Jeff Furlin			
Address of Property:	1792 North Riley Highway			
Subject Property Zoning Classification:	Business Highway			
Comprehensive Future Land use:	Gateway Mixed-Use			
	North	East	South	West
Surrounding Properties' Zoning Classifications:	Business Highway	Business Highway	Business Highway	Single Family Residential
Surrounding Properties' Comprehensive Future Land Use	Gateway Mixed-Use	Gateway Mixed-Use	Gateway Mixed-Use	Gateway Mixed-Use
History:	The parcel has been a mix of retail throughout the years. In the recent past it operated as a Shell Gas Station, but has been vacant for 10+ years. The site has sat vacant from then until now. The existing building will be demolished for the next Zaxby's.			
Vicinity Map:				
Action Requested:	Approval the Zaxby's Site Development Plan			

1. This petition is to construct a Zaxby's restaurant 1792 North Riley Highway. The proposal includes a 3,852 sq. ft. store with 70 seat capacity. The project is redeveloping .78 acres of a 1.67 acre site that has been vacant for 10+ years.

2. The Zoning Ordinance (Section 9.05 (F) (5)) requires the Plan Commission make Findings of Fact that the Site Development Plan:

- a. **Is consistent with the City of Shelbyville Comprehensive Plan;**

- The planning staff has determined the subject petition is consistent with the goals of the Comprehensive Plan. A focus of the Comprehensive Plan is to increase development around the interstate interchanges. The site for Zaxby's is located south of the Interstate 74 and State Road 9 interchange.

- b. **Meets the Technical Review Committee's expectations for best practices and quality design;**

- The Technical Review Committee reviewed the site development plan against their applicable standards and are satisfied with the plans.

- c. **Satisfies the applicable requirements of Article 2: Zoning Districts;**

- The planning staff has determined the subject petition is consistent with the business highway zoning district. The business highway is intended to provide areas for business that either service travelers or requires immediate access to high-volume streets for the delivery of goods and services. This district should be integrated into the community at its entrances and in centers along major transportation routes.

- d. **Satisfies the applicable requirements of Article 5: Development Standards;**

- All standards of Article 5 of the Unified Development Ordinance appear to be met, except:

- Commercial Standards – UDO 5.09**

- Places where sidewalks cross drive aisles, access roads, or driveways, the crossing shall be a paving material different from that of the vehicle surface to clearly distinguish them as a pedestrian route. The crossing from North Riley Highway through the parking lot does not appear to include a material change. This can be pavers, bricks, or stamped concrete that replicates the appearance of bricks or pavers.

- Sign Standards – UDO 5.58**

- The Unified Development Ordinance requires pole and pylon signs to be permitted via special exception by the Board of Zoning Appeals. Zaxby's intends to apply for a special exception use and development standards variances for the pole sign located on site.

- Note: Prior to the administrative issuance of a sign permit, detailed elevations to determine square footage and dimensions of facades ensuring compliance with standards will be required.

- e. **Satisfies the applicable requirements of Article 6: Design Standards**

- Article 6: Design Standards provides the standards for all subdivisions and generally apply to the construction of residential planned unit developments with public improvements. Article 6: Design Standards do not apply to this project.

f. Satisfies any other applicable provisions of the Unified Development Ordinance.

All other applicable provisions of the Unified Development Ordinance are being satisfied by the submitted civil plans.

STAFF RECOMMENDATION: APPROVAL W/ CONDITIONS:

1. Provide a material change where the sidewalk crosses the drive aisle on the west side of the building.

Site Development Plan: PC 2020-09; Zaxby's; Site Development Plan

Findings of Fact by the Shelbyville Plan Commission

Staff Prepared

Motion:

(I) would like to make a motion to approve the site development plan as presented to this body, with the conditions outlined in the planning staff's report, pursuant to the planning staff's report and Findings of Fact.

1. ☐ The site development plan is consistent with the *City of Shelbyville Comprehensive Plan* as outlined in the planning staff's report.
☐ The site development plan is **not** consistent with the *City of Shelbyville Comprehensive Plan*, as outlined in the planning staff's report.
2. ☐ The site development plan meets the Technical Review Committee's expectations for best practices and quality design, as outlined in the planning staff's report, as outlined in the planning staff's report.
☐ The site development plan **does not** meet the Technical Review Committee's expectations for best practices and quality design, as outlined in the planning staff's report, as outlined in the planning staff's report
3. ☐ The site development plan satisfies the applicable requirements of Article 2: *Zoning Districts*, as outlined in the planning staff's report.
☐ The site development plan **does not** satisfy the applicable requirements of Article 2: *Zoning Districts*, as outlined in the planning staff's report.
4. ☐ The site development plan satisfies the applicable requirements of Article 5: *Development Standards*, as outlined in the planning staff's report.
☐ The site development plan **does not** satisfy the applicable requirements of Article 5: *Development Standards*, as outlined in the planning staff's report.
5. ☐ The site development plan satisfies the applicable requirements of Article 6: *Design Standards*, as outlined in the planning staff's report.
☐ The site development plan **does not** satisfy the applicable requirements of Article 6: *Design Standards*, as outlined by the planning staff's report.
6. ☐ This site development plan satisfies all other applicable provision of the *Unified Development Ordinance*, as outlined by the planning staff's report.
☐ The site development plan **does not** satisfy all other applicable provision of the *Unified Development Ordinance*, as outlined in the planning staff's report.

Additional Conditions Imposed by the Shelbyville Plan Commission:

1.

2.

3.

Shelbyville Plan Commission

By: _____

Chairperson / Presiding Officer

Attest: _____

Adam M. Rude, Secretary



SITE DEVELOPMENT PLAN APPLICATION

Shelbyville Planning & Building Department
44 West Washington Street
Shelbyville, IN 46176
P: 317.392.5102

For Office Use Only:

Case #: PC _____ - _____

Hearing Date: _____

Fees Paid: \$ _____

Final Decision:

Approved

Denied

1.

Applicant

Name: Jeff Furlin (Barred Rock, Inc. d/b/a/ Zaxby's)
Address: 10142 Brooks School Road, Suite 196
Fishers Indiana 46037
Phone Number: (317) 509-0627
Fax Number: _____
Email: furlinjl@aol.com

Property Owners Information (if different than Applicant)

Name: Gallus Shelbyville, LLC
Address: 10142 Brooks School Road, Suite 196
Fishers, IN 46040
Phone Number: 317-509-0627
Fax Number: _____
Email: furlinjl@aol.com

2.

Applicant's Attorney/Representative

Name: Tyler Comstock
Address: 9025 River Road, Suite 200
Indianapolis, Indiana 46240
Phone Number: (317) 547-5580
Fax Number: _____
Email: tcomstock@structurepoint.com

Project Engineer

Name: Tyler Comstock
Address: 9025 River Road, Suite 200
Indianapolis, Indiana 46240
Phone Number: (317) 547-5580
Fax Number: _____
Email: tcomstock@structurepoint.com

3. Project Information:

General Location of Property (and address is applicable): Near the intersection of N Riley Highway and Rampart St.
1792 N Riley Highway Shelbyville, Indiana 46176

Current Zoning: BH

Existing Use of Property: Abandoned Gas Station

Proposed Zoning: BH

Proposed Use: Commercial food service

4. Attachments

- | | |
|---|--|
| <input checked="" type="checkbox"/> Affidavit and Consent of Property Owner (if applicable) | <input checked="" type="checkbox"/> Lighting Plan |
| <input checked="" type="checkbox"/> Proof of Ownership (copy of deed, recent property card) | <input checked="" type="checkbox"/> Landscaping Plan |
| <input checked="" type="checkbox"/> Letter of Intent | <input checked="" type="checkbox"/> Drainage Plan and Report |
| <input checked="" type="checkbox"/> Civil Plans as prescribed in UDO 9.05 | <input checked="" type="checkbox"/> Dimensioned Site Plan |
| <input checked="" type="checkbox"/> Vicinity Map | <input checked="" type="checkbox"/> Filling Fee |

The undersigned states the above information is true and correct as s/he is informed and believes.

Applicant: [Signature] Date: 7/31/2020

State of IN
County of Hamilton SS:

Subscribed and sworn to before me this 31 day of July, 2020.

[Signature] / Corey A Johnson
Notary Public Printed

Residing in Hamilton County.

My Commission Expires: 3-13-2027

COREY A JOHNSON
Notary Public - Seal
Hamilton County - State of Indiana
Commission Number NP0719154
My Commission Expires Mar 13, 2027

AFFIDAVIT & CONSENT OF PROPERTY OWNER
APPLICATION TO THE SHELBYVILLE PLAN COMMISSION

STATE OF Florida)
COUNTY OF Hillsborough) SS:

Timothy J. Healey, Authorized Agent
I, Indiana Land Trust#120728, AFTER BEING DULY SWORN, DEPOSE AND SAY THE
(Name of property owner)
FOLLOWING:

1. That I am the owner of real estate located at 1792 N Riley Highway Shelbyville, Indiana 46176 ;
(Address of subject property)
2. That I have read and examined the Application made to the Shelbyville Plan Commission by:
Jeff Furlin(Barred Rock, Inc. d/b/a/ Zaxby's)
(Name of applicant)
3. That I have no objections to, and consent to the request(s) described in the Application made to the Shelbyville Plan Commission.

Indiana Land Trust#120728/Timothy J. Healey, Authorized Agent

Owner's Name (Please Print)

Owner's Signature

Subscribed and sworn to before me this 31 day of July, 2020.

Michelle Monson Ashworth
Notary Public

Michelle Monson Ashworth
Printed

Residing in Hillsborough County

My Commission expires 4/8/2022





INDESCRIBABLY GOOD

Franchise Opportunity

MORE
THAN

900

LOCATIONS & GROWING!



Zaxby's was started by childhood friends Zach McLeroy and Tony Townley, two guys with an entrepreneurial spirit and a passion for great-tasting chicken. They took the tried and true chicken finger, added some Zaxby's flavor, and started a craze. Every decision, every detail, was crafted from a deeply felt passion that doing things the right way was the only way. No shortcuts. No compromises. It's always been about something more... not just serving the best food, but also about family, opportunity and dreams. What started as two guys with a dream has become a brand with over 900 locations where Zaxby's licensees live the dream every day.

AVERAGE UNIT VOLUME for 2018 **\$2,029,576**

The Fiscal Year average of \$2,029,576 is the actual average annual gross revenues of Licensee-Owned Restaurants open and operating between January 1, 2018 and December 30, 2018.



CONTACT US FOR YOUR FDD!
VISIT US AT [ZAXBYSFRANCHISING.COM](https://zaxbysfranchising.com)



EATING ZAXBY'S
IS GOOD.
OWNING IT IS
**EVEN
BETTER.**



QUALIFICATIONS

Collective net worth of at least \$1,000,000,
with liquid assets greater than \$500,000.

DEMOGRAPHICS

MEDIAN AGE: 22 – 45

MIN. AVG. HOUSEHOLD INCOME: \$45,000

MIN. TRAFFIC COUNTS: 20,000

ADT ON PRIMARY ARTERY:

(returning home side preferred)

SEATING INSIDE: 50 – 90

BUILDING FOOTPRINT: 2,400-3,900 sq. ft.

SITE SIZE: .80 to 1.25 acres

TRADE AREA: 30,000 draw minimum

PREFERRED SITES: Corner lots,
shopping center pads, and interstate locations.

ZONING: Freestanding restaurant with
drive-thru window. Must allow adequate signage.

FEES

INITIAL FRANCHISE FEE: \$35,000

ROYALTY: 6% of gross sales per week

NATIONAL AD FUND: 1% of gross sales per week

CO-OP MARKETING CONTRIBUTION:

1.5%-3.5% of gross sales per week

(as determined by co-op)

SUPPORT

- Innovative menu design and product development
- Training programs aligned with the best practices in the learning industry
- Dedicated field operations and business consultant staff
- Site selection, construction and pre-opening assistance
- Award winning advertising campaigns, local store marketing tools and community outreach programs

INCEPTION

Franchising since 1994

SPECIALTY

- Quick casual dining
- Hand battered chicken fingers
- Spicy Buffalo wings
- Eight unique sauces
- Delectable sandwiches
- Fresh salads

STATES

AL, AR, FL, GA, IN, KS, KY, LA, MD, MO, MS, NC, OH,
OK, SC, TN, TX, VA, UT, WV

DECOR

Eclectic casual atmosphere







CONSTRUCTION PLANS

FOR

ZAXBY'S

1792 N. RILEY HWY

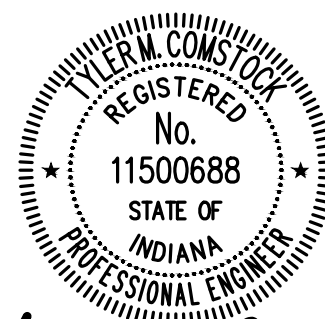
SHELBYVILLE, IN 46176

Barred Rock, Inc.
d/b/a Zaxby's
Circle City Rentals, LLC
d/b/a Aaron's
10142 Brooks School Road, Suite 196
Fishers, Indiana 46037
Contact: Jeff Furlin
(317) 509-0627
furlinjl@aol.com

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

Zaxby's

1792 N. Riley Hwy
Shelbyville, IN 46176



Tyler M. Comstock
CERTIFIED BY

ISSUANCE INDEX

DATE:
09/16/2020
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

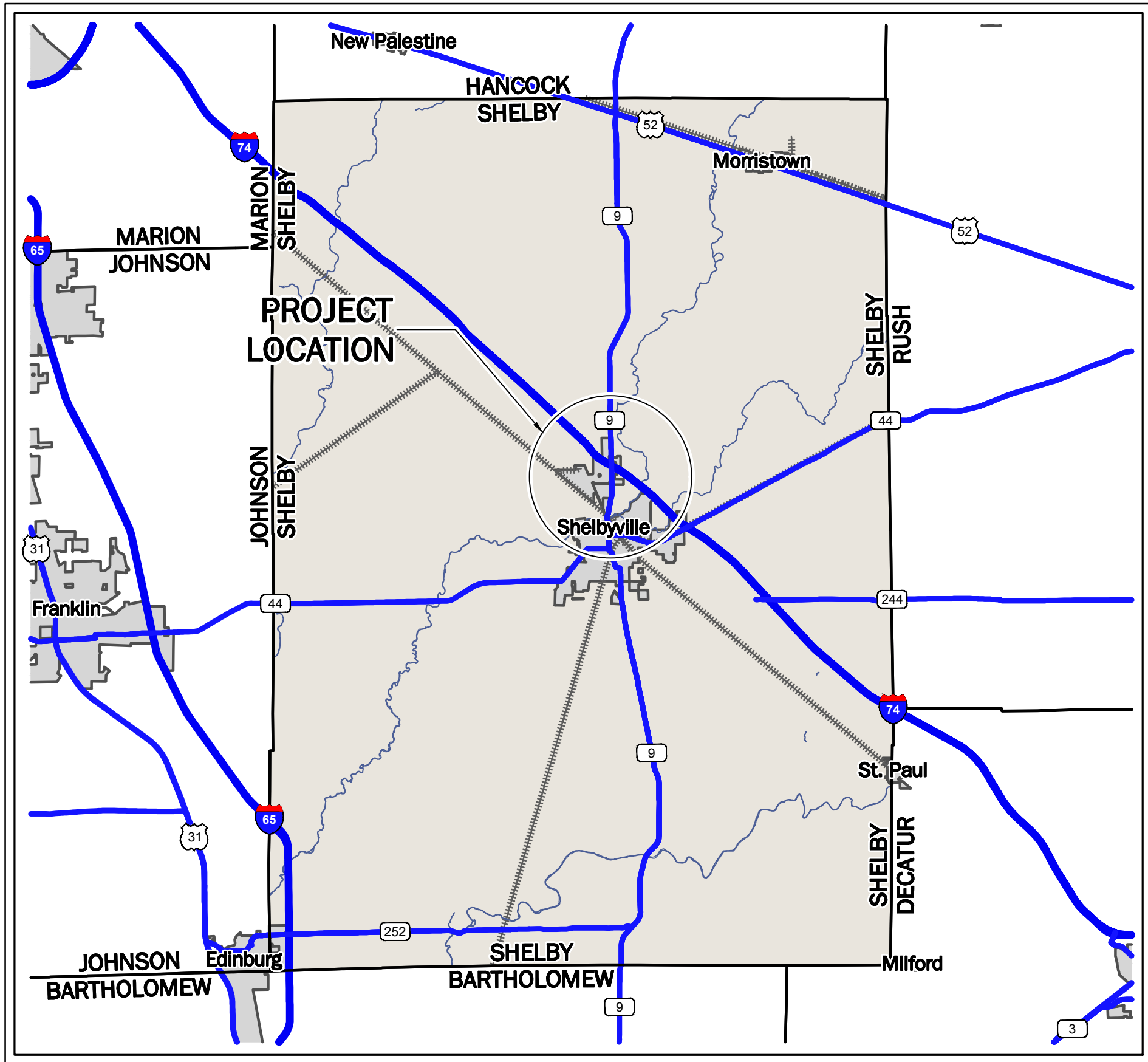
REVISION SCHEDULE

NO.	DESCRIPTION	DATE

Project Number 2020.01229

TITLE SHEET

C001



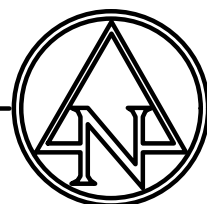
LOCATION MAP

NOT TO SCALE



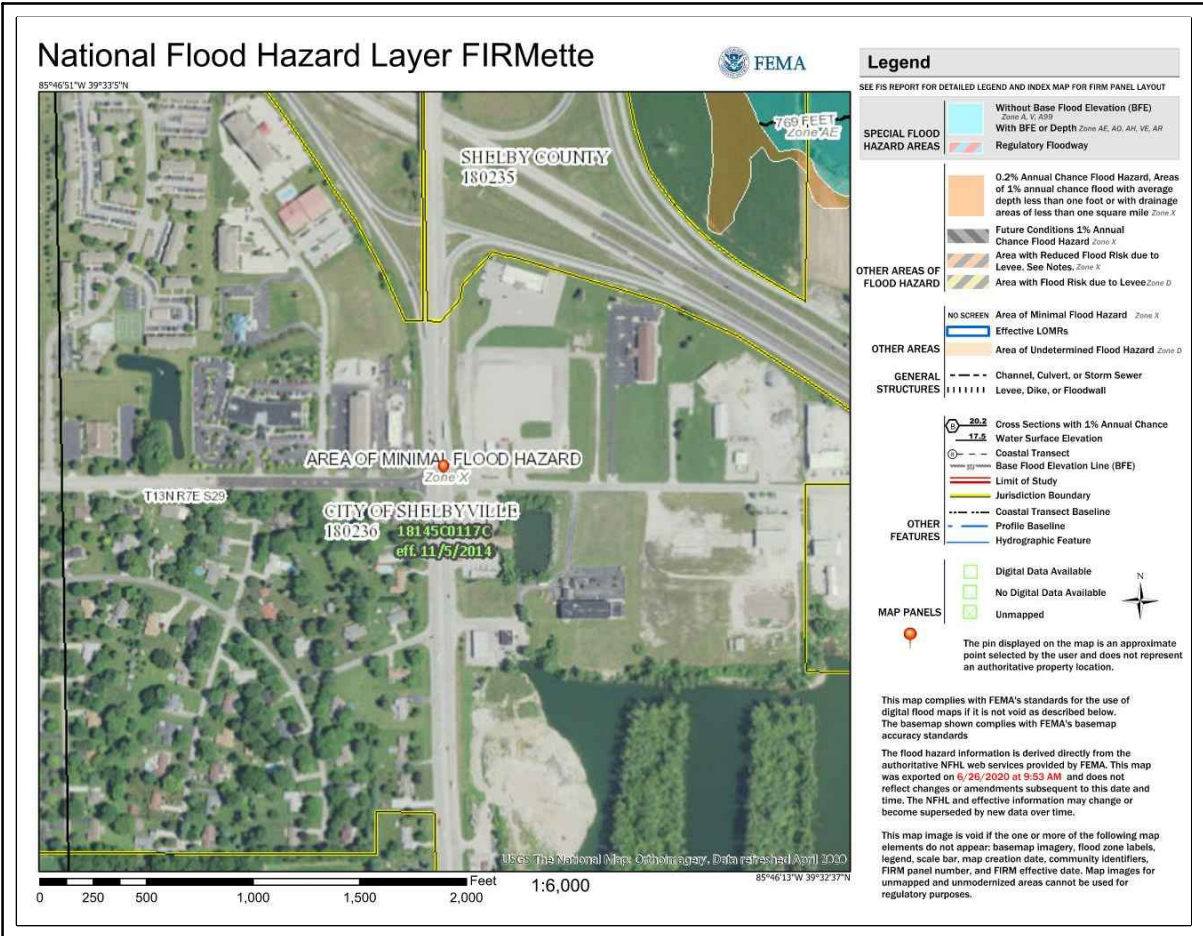
VICINITY MAP

NOT TO SCALE



SOILS MAP

NOT TO SCALE



FEMA MAP

NOT TO SCALE

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UTILITY CONTACTS			
(REV. 07/28/20)			
UTILITY	COMPANY	CONTACT	PHONE NO.
CABLE TELEVISION	COMCAST	-----	(800) 934-6489
ELECTRIC	DUKE ENERGY	-----	(800) 521-2232
FIBER OPTIC	COMCAST	-----	(800) 934-6489
GAS	VECTREN	GREG MATHIAS	(317) 776-5585
SANITARY SEWER	CITY OF SHELBYVILLE	KEVIN KREDIT	(317) 392-5131
STORM SEWER	CITY OF SHELBYVILLE	DERRICK BYERS	(317) 364-4990
TELEPHONE	AT&T	-----	(XXX) XXX-XXXX
WATER	INDIANA AMERICAN WATER	-----	(317) 392-0711

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 -

DRAWING FILE: P:\0202001229.D - Drawings\Civil\Construction Documents\2020 01229 CE C001.TB.dwg

EDIT DATE: 7/28/2020

EDIT DATE: 9/16/2020 8:03 AM

PLOT DATE: 9/16/2020 8:03 AM
PLOT SCALE: 1:2,500

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PLOT DATE: 9/16/2020 8:03 AM
PLOT SCALE: 1:2.5849
EDIT DATE: 7/28/2020
EDIT BY: JGUSTAKSON

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:
SCOTT T SUMERFORD LAND SURVEYING, PROJECT: 13N7E29-20-006 DATED: FEBRUARY 22, 2020.

DEMOLITION NOTES

- CLEAR AND GRUB ALL TREES AND VEGETATION NECESSARY FOR CONSTRUCTION.
- PROTECT TREES TO REMAIN DURING CONSTRUCTION.
- PLANT MATERIALS TO REMAIN, TO BE PROTECTED BY TREE FENCE WHICH ENCOMPASSES IT'S DRIP LINE. NO CONSTRUCTION EQUIPMENT, MATERIALS OR DEBRIS SHALL BE LOCATED WITHIN TREE PROTECTION BOUNDARIES. NO DEMOLITION CAN OCCUR UNTIL TREE PROTECTION IS APPROVED BY THE OWNER.
- 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 SHELBYVILLE 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 NOT LOCATED WITHIN ANY FLOODPLAIN, FLOODWAY OR FLOODWAY FRINGE AS INDICATED ON THE FLOOD INSURANCE RATE MAP (FIRM) FOR CITY OF SHELBYVILLE, SHELBY COUNTY, IN, MAP NUMBER 18145C0117C, DATED NOVEMBER 5, 2014.
- 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 SHELBYVILLE 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

-  Project Benchmark
-  Sign Location & Label
-  Light Pole
-  Abandoned Light Pole Base
-  Power Pole
-  Traffic Signal Post
-  Fire Hydrant
-  Water Meter Pit
-  Sewer Manhole (Storm or Sanitary)
-  Storm Water Manhole with Grate
-  Street Curb Inlet

BENCHMARK DATA

(DATUM: NAVD 88)
PROJECT BM
BOX CUT IN CONCRETE PLATFORM TO TRAFFIC CONTROL
BOX IN THE VERY EAST CORNER ABOUT 1.1' ABOVE GRADE.
ELEV: 774.63

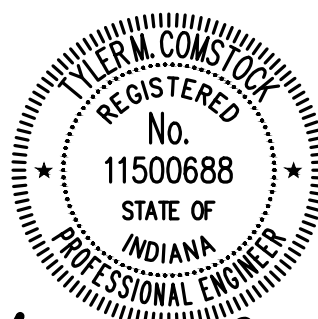
Barred Rock, Inc.
d/b/a Zaxby's
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www.structurepoint.com

Zaxby's

1792 N. Riley Hwy
Shelbyville, IN 46176



Tyler M. Comstock

CERTIFIED BY

ISSUANCE INDEX	
DATE:	09/16/2020
PROJECT PHASE:	CONSTRUCTION DOCUMENTS

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2020.01229

GENERAL NOTES

C002

UTILITY CONTACTS			
		(REV. 07/28/20)	
UTILITY	COMPANY	CONTACT	PHONE NO.
CABLE TELEVISION	COMCAST	-----	(800) 934-6489
ELECTRIC	DUKE ENERGY	-----	(800) 521-2232
FIBER OPTIC	COMCAST	-----	(800) 934-6489
GAS	VECTREN	GREG MATHIAS	(317) 776-5585
SANITARY SEWER	CITY OF SHELBYVILLE	KEVIN KREDIT	(317) 392-5131
STORM SEWER	CITY OF SHELBYVILLE	DERRICK BYERS	(317) 364-4990
TELEPHONE	AT&T	-----	(XXX) XXX-XXXX
WATER	INDIANA AMERICAN WATER	-----	(317) 392-0711

- GEOTECHNICAL & ENVIRONMENTAL NOTE:
- CONTRACTOR SHALL REFER TO THE GEOTECHNICAL ENGINEERING REPORT FOR INFORMATION ABOUT SOIL CONDITIONS.
 - CONTRACTOR SHALL REFER TO THE ENVIRONMENTAL REPORT FOR INFORMATION ON ENVIRONMENTAL FINDINGS ON THE SITE.

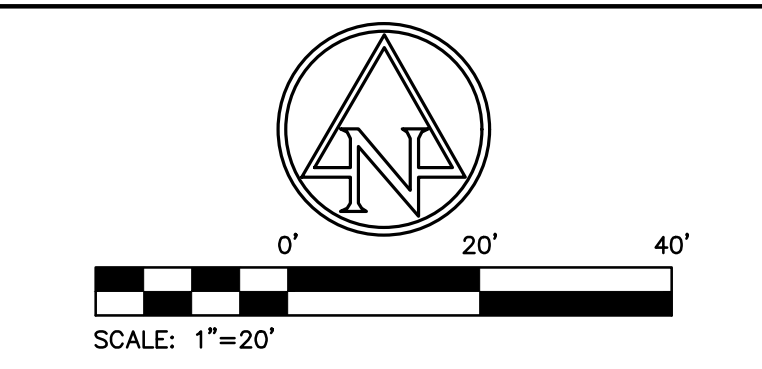
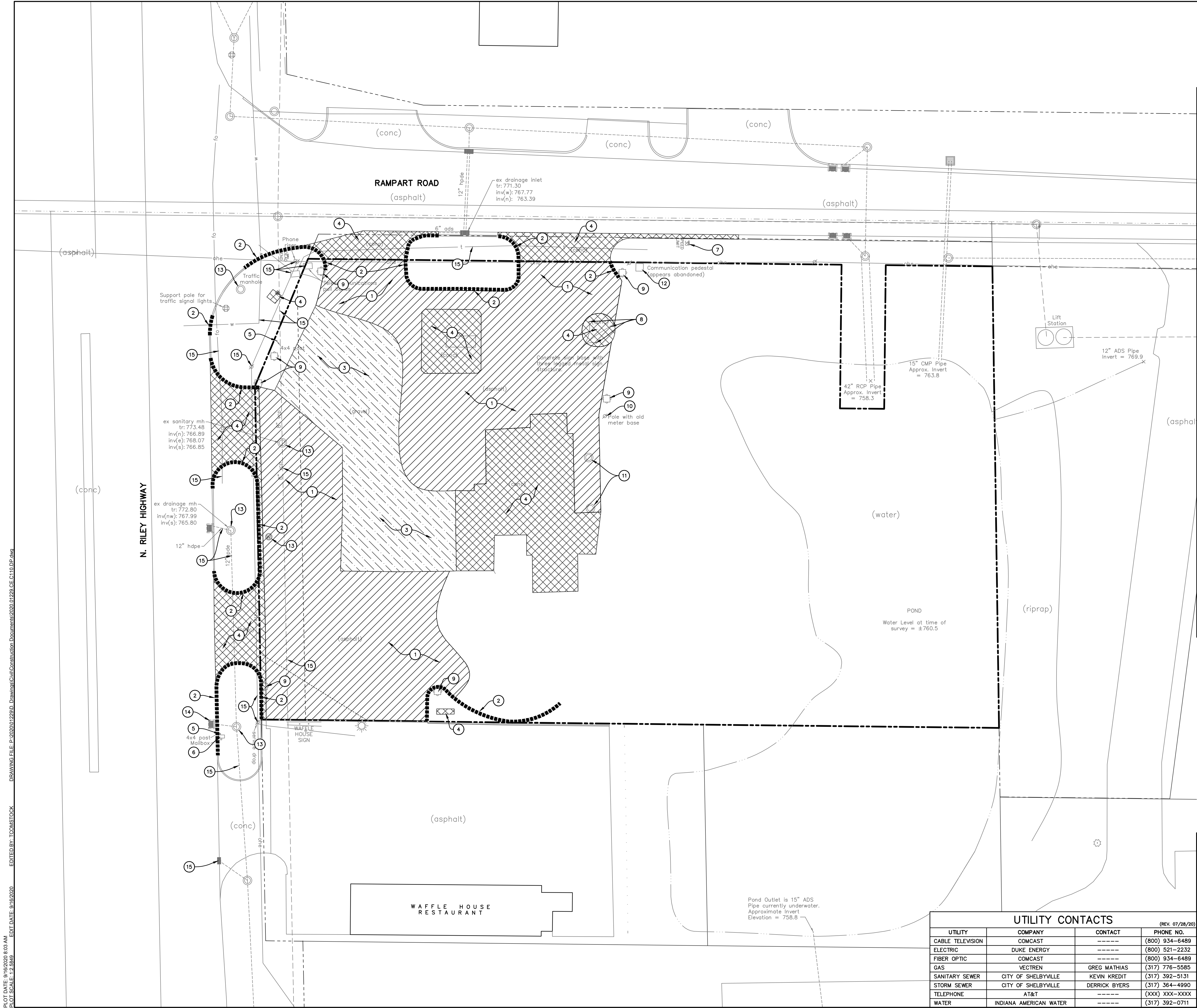
GENERAL NOTES:

- 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 -



- EXISTING LEGEND**
- Project Benchmark
 - Sign Location & Label
 - Light Pole
 - Abandoned Light Pole Base
 - Power Pole
 - Traffic Signal Post
 - Fire Hydrant
 - Water Meter Pit
 - Sewer Manhole (Storm or Sanitary)
 - Storm Water Manhole with Grate
 - Street Curb Inlet

- DEMOLITION LEGEND**
- EXISTING CURB TO BE REMOVED
 - EXISTING GRAVEL 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 TO BE REMOVED.
 - EXISTING GRAVEL TO BE REMOVED.
 - REMOVE EXISTING CONCRETE, BASE, CONCRETE PADS AND OTHER MISCELLANEOUS CONCRETE MATERIAL (SAWCUT FOR CLEAN EDGE).
 - EXISTING POST TO BE REMOVED.
 - EXISTING MAILBOX TO BE REMOVED.
 - EXISTING SIGN TO BE REMOVED AND/OR RELOCATED. CONTRACTOR TO COORDINATE WITH CITY STREET DEPARTMENT.
 - EXISTING METAL SIGN STRUCTURE TO BE REMOVED.
 - EXISTING ABANDONED LIGHT POLE BASE TO BE REMOVED.
 - EXISTING UTILITY POLE TO BE REMOVED AND/OR RELOCATED. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY.
 - EXISTING STORM STRUCTURES TO BE REMOVED.
 - EXISTING ABANDONED COMMUNICATION PEDESTAL TO BE PROTECTED DURING CONSTRUCTION. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY.
 - ADJUST CASTING TO PROPOSED GRADE.
 - PROTECT EXISTING STORM STRUCTURE. EXISTING CASTING TO BE REPLACED WITH APPROPRIATE FLAT CASTING. CONTRACTOR TO VERIFY EXISTING STRUCTURE TYPE AND PROVIDE SUBSTITUTE CASTING REPLACEMENT.
 - PROTECT EXISTING UTILITY THROUGHOUT DURATION OF CONSTRUCTION.

- GENERAL NOTES:**
- CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION.
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UTILITY CONTACTS			
(REV. 07/28/20)			
UTILITY	COMPANY	CONTACT	PHONE NO.
CABLE TELEVISION	COMCAST	-----	(800) 934-6489
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STORM SEWER	CITY OF SHELBYVILLE	DERRICK BYERS	(317) 364-4990
TELEPHONE	AT&T	-----	(XXX) XXX-XXXX
WATER	INDIANA AMERICAN WATER	-----	(317) 392-0711

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Xaxby's

1792 N. Riley Hwy
Shelbyville, IN 46176

TILER M. COMSTOCK
REGISTERED
No. 11500688
STATE OF INDIANA
PROFESSIONAL ENGINEER

Tiler M. Comstock
CERTIFIED BY

ISSUANCE INDEX		
DATE:	09/16/2020	
PROJECT PHASE:	CONSTRUCTION DOCUMENTS	

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

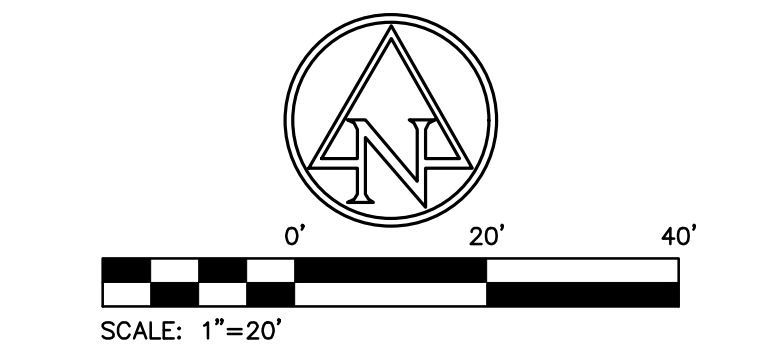
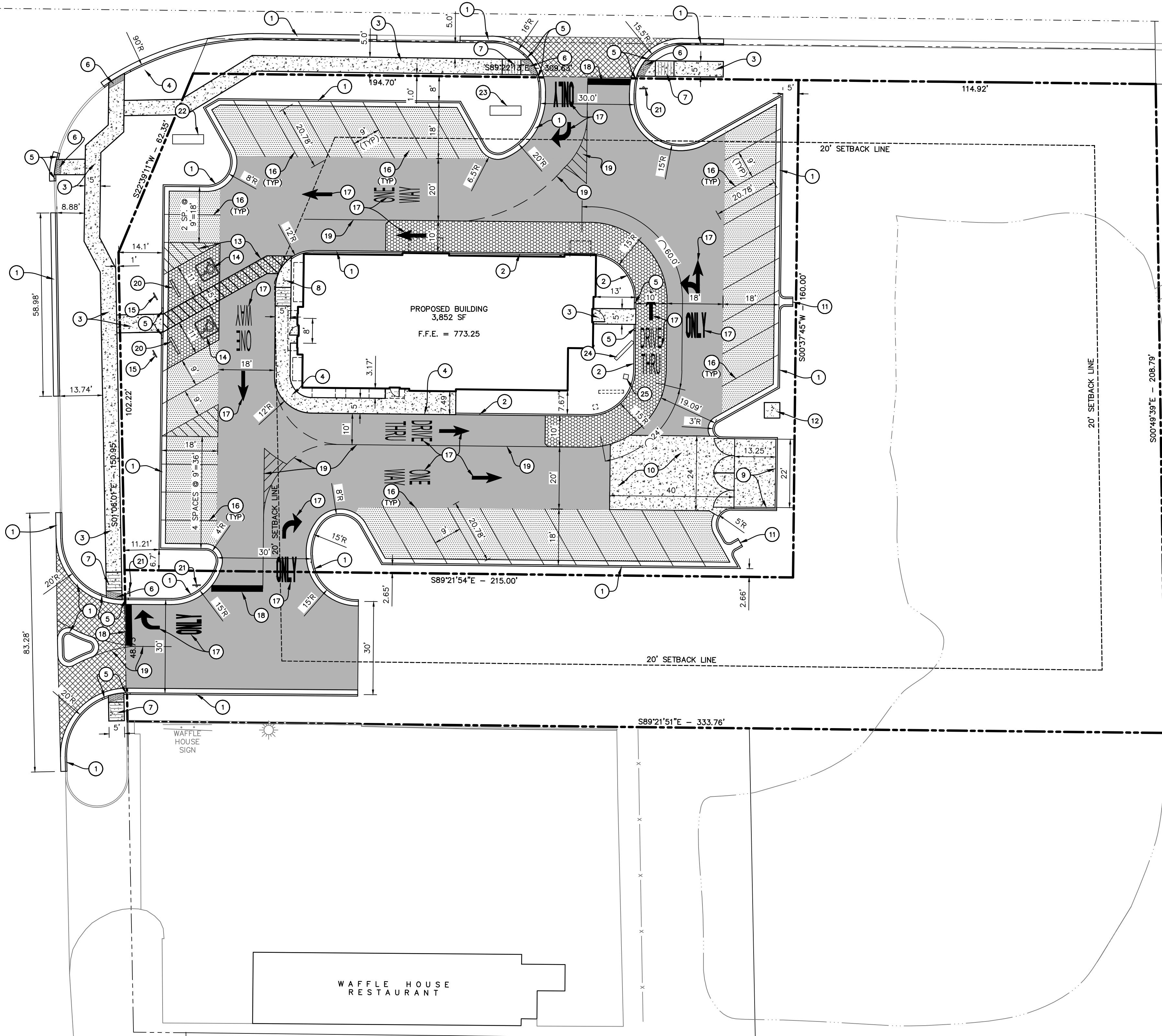
Project Number 2020.01229

DEMOLITION PLAN

C110

PLOT DATE: 9/16/2020 8:03 AM
PLOT SCALE: 1"=20'
DRAWING FILE: P:\02000122\01.DWG
EDIT DATE: 9/16/2020
EDITED BY: TCOMSTOCK

N. RILEY HIGHWAY



EXISTING LEGEND

- Project Benchmark
- Sign Location & Label
- Light Pole
- Abandoned Light Pole Base
- Power Pole
- Traffic Signal Post
- Fire Hydrant
- Water Meter Pit
- Sewer Manhole (Storm or Sanitary)
- Storm Water Manhole with Grate
- Street Curb Inlet

SITE LEGEND

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

SITE DATA TABLE

SITE ZONING:	BH--Business Highway
PROJECT AREA:	0.78± ACRES
BUILDING AREA:	3,852 SF
SITE IMPERVIOUS AREA:	0.03± ACRES
STANDARD PARKING (9'x18'):	36
ADA PARKING PROVIDED:	2
(INCLUDES 2 VAN ACCESSIBLE)	
TOTAL PROPOSED PARKING:	38

KEYNOTES

- 24" CONCRETE CURB & GUTTER
- 6" CONCRETE CURB
- CONCRETE SIDEWALK
- COMBINED CONCRETE CURB & WALK
- CURB TAPER
- TRUNCATED DOMES FOR SIDEWALK
- ONE-WAY DIRECTIONAL PERPENDICULAR CURB RAMP (INDOT STANDARD DRAWING NO. E 604-SWCR-06)
- ADA ACCESSIBLE RAMP TYPE "H"
- DUMPSTER ENCLOSURE (COORDINATE WITH ARCHITECTURAL PLANS)
- CONCRETE DUMPSTER PAD
- CURB TURNOUT
- TRANSFORMER PAD PER UTILITY COMPANY STANDARDS
- ADA PARKING SPACE (4" BLUE PAINT STRIPE)
- ADA PARKING SYMBOL
- ADA ACCESSIBLE PARKING SIGN
- PARKING SPACE (4" WHITE PAINT STRIPE)
- DIRECTIONAL PAVEMENT MARKINGS, WHITE, THERMOPLASTIC
- 24" STOP BAR, WHITE, THERMOPLASTIC
- LANE MARKINGS, WHITE, THERMOPLASTIC
- CONCRETE WHEEL STOP
- STOP SIGN
- MONUMENT SIGN (BY OTHERS)
- ENTRANCE SIGN (BY OTHERS)
- MENU BOARD (BY OTHERS)
- ORDERING SIGN (BY OTHERS)

GENERAL NOTES:

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Zaxby's

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 Shelbyville, IN 46176



H. M. Comstock
 CERTIFIED BY

ISSUANCE INDEX

DATE:	09/16/2020
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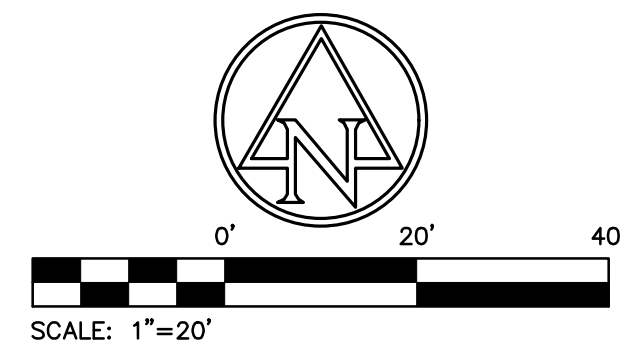
REVISION SCHEDULE

NO.	DESCRIPTION	DATE












Project Number 2020.01229

SITE PLAN

C200



EXISTING LEGEND

- | | |
|---|-----------------------------------|
|  | Project Benchmark |
|  | Sign Location & Label |
|  | Light Pole |
|  | Abandoned Light Pole Base |
|  | Power Pole |
|  | Traffic Signal Post |
|  | Fire Hydrant |
|  | Water Meter Pit |
|  | Sewer Manhole (Storm or Sanitary) |
|  | Storm Water Manhole with Grate |
|  | Street Curb Inlet |

BENCHMARK DATA

(DATUM: NAVD 88)

PROJECT BM
BOX CUT IN CONCRETE PLATFORM TO TRAFFIC CONTROL
BOX IN THE VERY EAST CORNER ABOUT 1.1' ABOVE GRADE.
ELEV: 774.63

GRADING LEGEND

- | | |
|----|----------------|
| ME | MATCH EXISTING |
| BC | BOTTOM OF CURB |
| TC | TOP OF CURB |
-
-
- 000
- TC 000.50
BC 000.00
- 000.00
- CONTOURS
- CURB ELEVATIONS
- SPOT ELEVATIONS
- STORM SEWER LINE
- PAVEMENT UNDERDRAIN
- STRUCTURES

GENERAL NOTES:

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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.

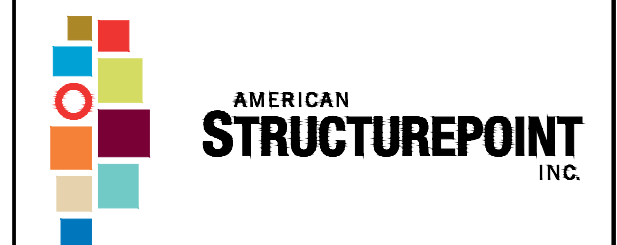
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Zaxby's

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Shelbyville, IN 46176



John M. Constance

CERTIFIED BY

ISSUANCE INDEX

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CONSTRUCTION DOCUMENTS

REVISION SCHEDULE

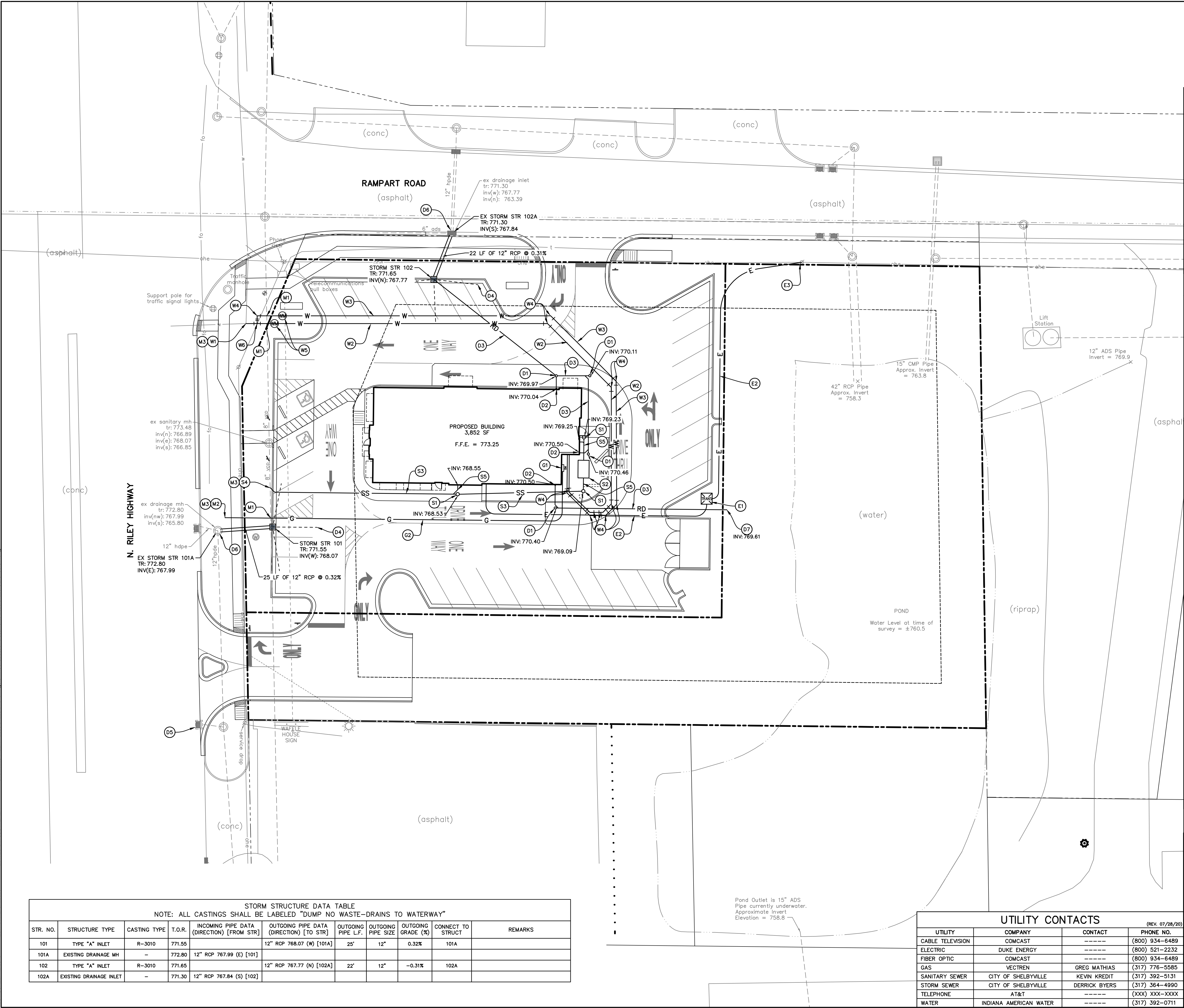
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Project Number	2020.01229
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GRADING PLAN

C300

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PLOT DATE: 9/16/2020 8:04 AM
PLOT SCALE: 1"=20'
EDIT DATE: 9/1/2020
EDITED BY: JSUTTERER



STORM STRUCTURE DATA TABLE									
NOTE: ALL CASTINGS SHALL BE LABELED "DUMP NO WASTE--DRAINS TO WATERWAY"									
STR. NO.	STRUCTURE TYPE	CASTING TYPE	T.O.R.	INCOMING PIPE DATA (DIRECTION) [FROM STR]	OUTGOING PIPE DATA (DIRECTION) [TO STR]	OUTGOING PIPE SIZE	OUTGOING GRADE (%)	CONNECT TO	REMARKS
101	TYPE "A" INLET	R-3010	771.55	12" RCP 768.07 (W) [101A]	25'	12"	0.32%	101A	
101A	EXISTING DRAINAGE MH	-	772.80	12" RCP 767.99 (E) [101]					
102	TYPE "A" INLET	R-3010	771.65	12" RCP 767.77 (N) [102A]	22'	12"	-0.31%	102A	
102A	EXISTING DRAINAGE INLET	-	771.30	12" RCP 767.84 (S) [102]					

UTILITY CONTACTS			
(REV. 07/28/20)			
UTILITY	COMPANY	CONTACT	PHONE NO.
CABLE TELEVISION	COMCAST	-----	(800) 934-6489
ELECTRIC	DUKE ENERGY	-----	(800) 521-2232
FIBER OPTIC	COMCAST	-----	(800) 934-6489
GAS	VECTREN	GREG MATHIAS	(317) 776-5585
SANITARY SEWER	CITY OF SHELBYVILLE	KEVIN KREDIT	(317) 392-5131
STORM SEWER	CITY OF SHELBYVILLE	DERRICK BYERS	(317) 364-4990
TELEPHONE	AT&T	-----	(XXX) XXX-XXXX
WATER	INDIANA AMERICAN WATER	-----	(317) 392-0711

SCALE: 1"=20'

EXISTING LEGEND

- Project Benchmark
- Sign Location & Label
- Light Pole
- Abandoned Light Pole Base
- Power Pole
- Traffic Signal Post
- Fire Hydrant
- Water Meter Pit
- Sewer Manhole (Storm or Sanitary)
- Storm Water Manhole with Grate
- Street Curb Inlet

UTILITY LEGEND

- ELECTRIC / TELECOMMUNICATIONS LINE
- WATER LINE
- ROOF DRAIN LINE
- GAS LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- PAVEMENT UNDERDRAIN
- GAS METER
- ELECTRICAL TRANSFORMER
- VALVE
- WATER FITTINGS
- WATER METER PIT

KEYNOTES

SANITARY SEWER

- S1. SANITARY CLEANOUT
- S2. OIL/WATER SEPARATOR (REFER TO MEP PLANS)
- S3. 6" PVC SDR 35 SANITARY LATERAL @ 1.00% MIN. SLOPE
- S4. WYE CONNECTION TO SANITARY MAIN
- S5. 4" PVC SDR 35 SANITARY LATERAL @ 1.00% MIN. SLOPE

DRAINAGE/STORM SEWER

- D1. ROOF DRAIN CLEANOUT
- D2. DOWNSPOUT BOOT CONNECTION
- D3. 6" HDPE ROOF DRAIN @ 1.00% MIN. SLOPE
- D4. PAVEMENT UNDER DRAIN
- D5. PROTECT EXISTING STORM STRUCTURE. EXISTING CASTING TO BE REPLACED WITH APPROPRIATE FLAT STRUCTURE. CONTRACTOR TO VERIFY EXISTING STRUCTURE TYPE AND PROVIDE SUBSTITUTE CASTING REPLACEMENT.
- D6. CONTRACTOR TO FIELD VERIFY INVERT ELEVATIONS AND COORD. NEW PIPE CONNECTION. CONTACT ENGINEER IF CONFLICTS EXIST.
- D7. MITERED DRAIN OUTLET

WATERLINE

- W1. WATER CONNECTION WITH TAPPING SLEEVE AND VALVE (COORDINATE WITH WATER UTILITY)
- W2. 2" PVC DR11 WATER LINE
- W3. 1" IRRIGATION LINE
- W4. WATER BEND W/ CONCRETE THRUST BLOCK
- W5. WATER METER
- W6. WATER TEE

GAS

- G1. GAS METER
- G2. GAS SERVICE LINE

ELECTRIC / TELECOMMUNICATIONS

- E1. ELECTRIC TRANSFORMER (PER DUKE ENERGY STANDARDS)
- E2. ELECTRIC SERVICE LINE
- E3. NEW ELECTRIC SERVICE DROP AT EXISTING POLE (COORDINATE WITH UTILITY PROVIDER)

MISCELLANEOUS

- M1. POTENTIAL UTILITY CONFLICT (ALL WATER / SANITARY / STORM CROSSINGS TO HAVE A MINIMUM OF 18" VERTICAL CLEARANCE. CONTACT ENGINEER IF CONFLICTS EXIST. RELOCATE EXISTING UTILITIES AS REQUIRED).
- M2. CONTRACTOR TO FIELD VERIFY LOCATION, DEPTH AND TYPE OF EXISTING UTILITIES TO ENSURE CONFLICTS DO NOT EXIST WITH PROPOSED UTILITIES.
- M3. CONTRACTOR TO COORDINATE UTILITY CONNECTION WITH UTILITY PROVIDER.

GENERAL NOTES:

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- 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.

KEYNOTES

SANITARY SEWER

- S1. SANITARY CLEANOUT
- S2. OIL/WATER SEPARATOR (REFER TO MEP PLANS)
- S3. 6" PVC SDR 35 SANITARY LATERAL @ 1.00% MIN. SLOPE
- S4. WYE CONNECTION TO SANITARY MAIN
- S5. 4" PVC SDR 35 SANITARY LATERAL @ 1.00% MIN. SLOPE

DRAINAGE/STORM SEWER

- D1. ROOF DRAIN CLEANOUT
- D2. DOWNSPOUT BOOT CONNECTION
- D3. 6" HDPE ROOF DRAIN @ 1.00% MIN. SLOPE
- D4. PAVEMENT UNDER DRAIN
- D5. PROTECT EXISTING STORM STRUCTURE. EXISTING CASTING TO BE REPLACED WITH APPROPRIATE FLAT STRUCTURE. CONTRACTOR TO VERIFY EXISTING STRUCTURE TYPE AND PROVIDE SUBSTITUTE CASTING REPLACEMENT.
- D6. CONTRACTOR TO FIELD VERIFY INVERT ELEVATIONS AND COORD. NEW PIPE CONNECTION. CONTACT ENGINEER IF CONFLICTS EXIST.
- D7. MITERED DRAIN OUTLET

WATERLINE

- W1. WATER CONNECTION WITH TAPPING SLEEVE AND VALVE (COORDINATE WITH WATER UTILITY)
- W2. 2" PVC DR11 WATER LINE
- W3. 1" IRRIGATION LINE
- W4. WATER BEND W/ CONCRETE THRUST BLOCK
- W5. WATER METER
- W6. WATER TEE

GAS

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- G2. GAS SERVICE LINE

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ISSUANCE INDEX

DATE:	09/16/2020
PROJECT PHASE:	CONSTRUCTION DOCUMENTS

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

UTILITY PLAN

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 -

Barred Rock, Inc.
d/b/a Zaxby's
Circle City Rentals, LLC
d/b/a Aaron's

10142 Brooks School Road, Suite 196
Fishers, Indiana 46037
Contact: Jeff Furlin
(317) 509-0627
furlinj@aol.com

AMERICAN
STRUCTUREPOINT
INC.

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

Zaxby's

1792 N. Riley Hwy
Shelbyville, IN 46176

CERTIFIED BY

ISSUANCE INDEX

DATE:	09/16/2020
PROJECT PHASE:	CONSTRUCTION DOCUMENTS

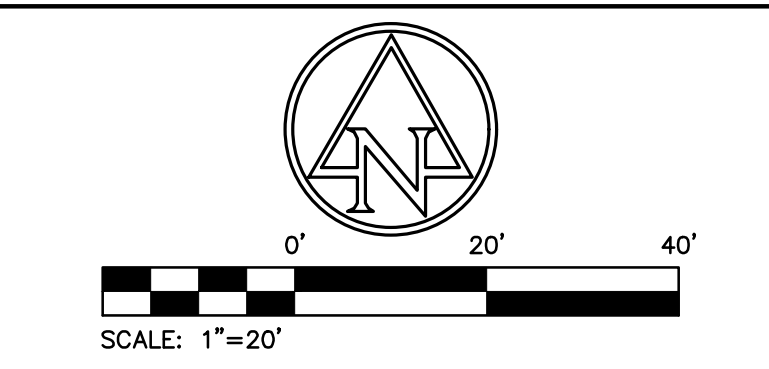
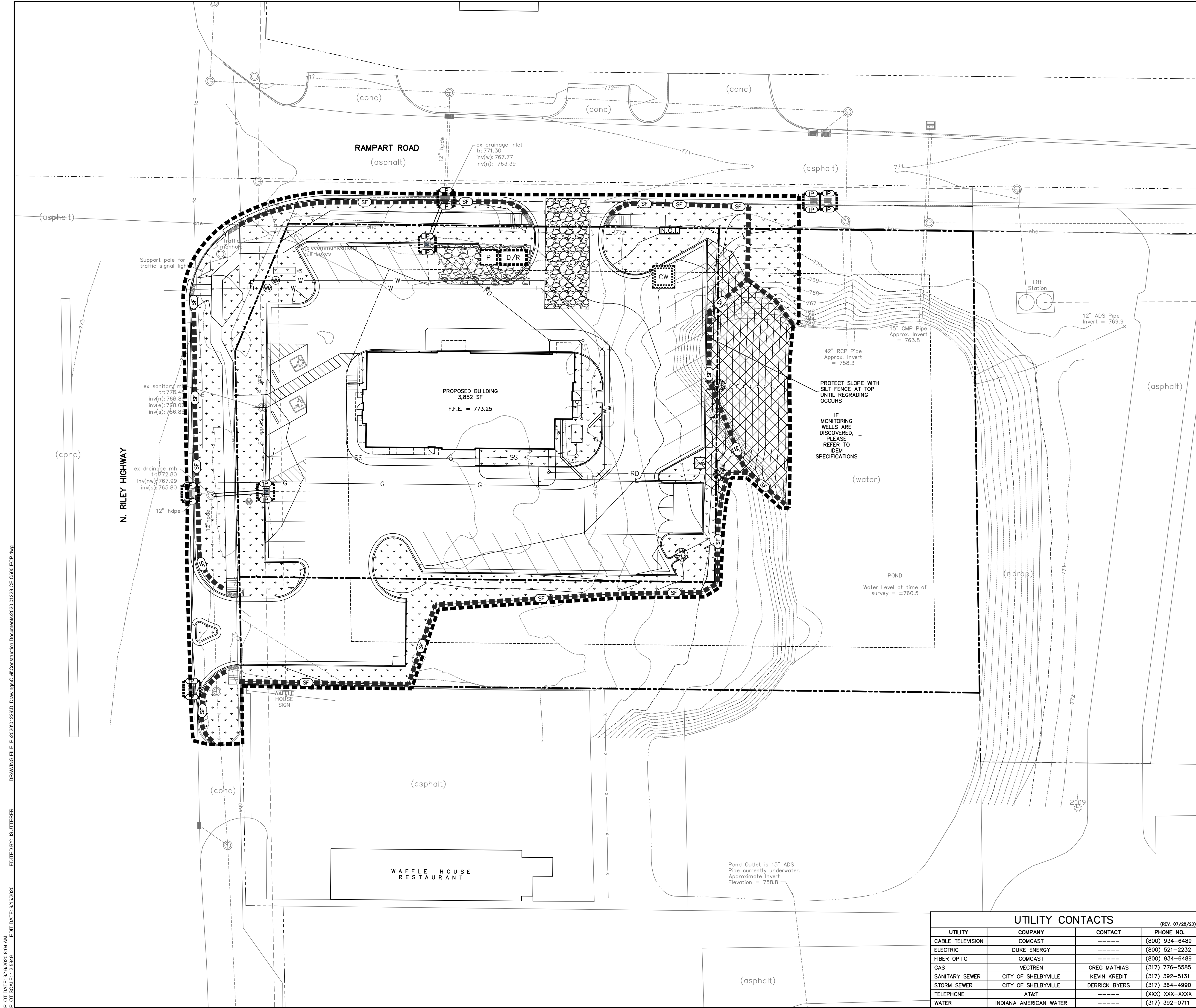
REVISION SCHEDULE

NO.	DESCRIPTION	DATE

UTILITY PLAN

Project Number 2020.01229

C400



- ### EXISTING LEGEND
- Project Benchmark
 - Sign Location & Label
 - Light Pole
 - Abandoned Light Pole Base
 - Power Pole
 - Traffic Signal Post
 - Fire Hydrant
 - Water Meter Pit
 - Sewer Manhole (Storm or Sanitary)
 - Storm Water Manhole with Grate
 - Street Curb Inlet

- ### EROSION CONTROL LEGEND
- SILT FENCE
 - CONSTRUCTION LIMITS
 - INLET PROTECTION
 - AREA SUBJECT TO TEMPORARY SEEDING DURING CONSTRUCTION AND PERMANENT SEEDING AFTER CONSTRUCTION IS COMPLETE (REFER TO LANDSCAPE PLANS)
 - EROSION CONTROL BLANKET WITH SEEDING
 - GRAVEL CONSTRUCTION ENTRANCE
 - STAGING AREA
 - CONCRETE WASHOUT
 - DUMPSTER / RECYCLING AREA
 - PORT-O-LET
 - N.O.I. SIGN POSTING
 - OUTLET PROTECTION

- ### GENERAL NOTES:
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CALL TOLL FREE
"811" OR 1-800-382-5544
- INDIANA UNDERGROUND -

UTILITY CONTACTS			
(REV. 07/28/20)			
UTILITY	COMPANY	CONTACT	PHONE NO.
CABLE TELEVISION	COMCAST	-----	(800) 934-6489
ELECTRIC	DUKE ENERGY	-----	(800) 521-2232
FIBER OPTIC	COMCAST	-----	(800) 934-6489
GAS	VECTREN	GREG MATHIAS	(317) 776-5585
SANITARY SEWER	CITY OF SHELBYVILLE	KEVIN KREDIT	(317) 392-5131
STORM SEWER	CITY OF SHELBYVILLE	DERRICK BYERS	(317) 364-4990
TELEPHONE	AT&T	-----	(XXX) XXX-XXXX
WATER	INDIANA AMERICAN WATER	-----	(317) 392-0711

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Zaxby's

1792 N. Riley Hwy
 Shelbyville, IN 46176

REGISTERED PROFESSIONAL ENGINEER
 No. 11500688
 STATE OF INDIANA
Th. M. Comstock
 CERTIFIED BY

ISSUANCE INDEX

DATE: 09/16/2020
 PROJECT PHASE: CONSTRUCTION DOCUMENTS

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

Project Number 2020.01229

EROSION CONTROL PLAN

C500

DRAWING FILE: P:\0200\0122\0122-IND_Drainage\CivilConstruction Documents\2020 01223 CE C510 SWPPP.dwg
EDIT DATE: 8/28/2020
PLOT DATE: 9/16/2020 10:44 AM
PLOT SCALE: 1:2,500

SITE NAME	The area scheduled for construction is known as "Zaxby's" (hereinafter referred to as the "Project").
PROJECT LOCATION	The property is located at 1792 N Riley Hwy, between Rampart Street and Gateway Drive in Shelbyville, Indiana, at a latitude of 39°42'50" N and a longitude of 85°48'30" W.
OWNER'S INFORMATION	Name: Barred Rock, Inc. d/b/a Zaxby's Address: 10142 Brooks School Rd, Suite 196 Representative: Jeff Furlin Title: Developer Telephone: (317) 509-0627
OPERATOR'S INFORMATION	Name: Barred Rock, Inc. d/b/a Zaxby's Address: 10142 Brooks School Rd, Suite 196 Representative: Jeff Furlin Title: Developer Telephone: (317) 509-0627
NOTICE OF INTENT	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 requirements: a) The party has operational control over construction plans and specifications, including the ability to make modifications to these plans and specifications. b) 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	This project includes the redevelopment of approximately 1.14 acres of previously developed land, including the construction of an extension of 3,852 feet of new commercial food service space. The project also includes relevant infrastructure including stripping and stockpiling of topsoil, a new sanitary lateral and grease trap, new water lateral and irrigation line, and storm sewer. The site will be landscaped and paved.
A4 VICINITY MAP	Refer to Title Sheet.
A5 LEGAL DESCRIPTION OF THE PROJECT SITE	Refer to the existing topography plan for a full legal description of the project site.
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)	05120204030070
A8 STATE AND FEDERAL WATER QUALITY PERMITS	IDEM Rule 5 NOI
A9 SPECIFIC POINT WHERE STORMWATER DISCHARGE WILL LEAVE THE SITE	Stormwater drainage from the site will be conveyed by proposed storm sewer infrastructure to existing stormwater facilities existing to the west and north sides of the site. Other stormwater from the site will run off into the existing wet detention basin to the east of the project.
A10 LOCATION AND NAME OF ALL WETLANDS, LAKES, AND WATERCOURSES ON AND ADJACENT TO THE SITE	There are no lakes, wetlands, or watercourses adjacent to the site. Some storm runoff does run to a small detention pond to the east of the site.
A11 IDENTIFICATION OF ALL RECEIVING WATERS	The Big Blue River 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 0.2 percent annual chance floodplain) as indicated on the Shelby County, Indiana, Flood Insurance Rate Map 18145C00117C dated November 5, 2014.
A14 PRE-CONSTRUCTION AND POST-CONSTRUCTION ESTIMATE OF PEAK DISCHARGE	Pre-construction 10-year discharge: 3.81 cfs Post-construction 10-year discharge: 3.11 cfs
A15 ADJACENT LAND USE	North: Business Highway East: Business Highway South: Business Highway West: Single Family Residential
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 Plan.
A18 SOILS MAP INCLUDING SOIL DESCRIPTION AND LIMITATIONS	The National Resources Conservation Service (NRCS) Web Soil Survey of Shelby County, Indiana, indicates (Gravel Pits and Nineveh Loam) 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	Locations of stormwater systems: Refer to the Utility Plan or Storm Sewer Plan and Profiles Size of storm sewer: Refer to the Utility Plan or Storm Sewer Plan and Profiles Details of storm inlets and manholes: Refer to Site Details
A20 PLANS FOR ANY OFF-SITE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT	Some offsite construction will take place during this project. The new site will extend over a portion of the existing detention pond, which will be partially filled in and a new slope established down to the normal pool.
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 Plan.
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: 1. Material storage areas (more specifically described below) 2. Construction waste material 3. Fuel storage areas and fueling stations 4. Exposed soils 5. Leaking vehicles and equipment 6. Sanitary waste from temporary toilet facilities 7. Litter 8. Windblown dust 9. 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: 1. Structural fill 2. Pavement Base Stone 3. HDPE, PVC, RCP or Ductile Iron pipe 4. Precast concrete, HDPE or PVC drainage and sanitary structures 5. Rock rip-rap	SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION RELATIVE TO LAND-DISTURBING ACTIVITIES Preconstruction Activity • The exact locations of all existing utilities within the project limits are to be verified prior to construction. • Schedule pre-construction meeting with local stormwater authority. • Install protection fencing for existing trees to remain in place within the project limits. • Install protection fencing for existing karst in areas adjacent to project limits. Construction Site Access • Install gravel construction entrance. • Post the NOI at the construction entrance. • Install construction staging pads, fueling station, material storage areas, concrete washout, construction parking areas and stabilize construction routes. Perimeter Controls • Utilize the gravel construction entrance for installation of the perimeter silt fence. Add stone if needed. Initial Land Clearing and Grading Activities • Add protection measures to existing inlets. • Strip the topsoil and stabilize the topsoil stockpile. Secondary Land Grading Activities • Begin site grading/construction of detention basins and stabilize any soil stockpiles that will be left dormant for more than 10 days. • Complete the cut and fills on the site. Final grade and seed the pond slopes. Install check dams and stabilize slopes with erosion control blankets. • Install storm sewer system and install inlet protection immediately upon completion of the inlet and install riprap outlet protection prior to installing outlets. Surface Stabilization • Apply temporary seeding and stabilize slopes in areas where rough grading has been completed. • Apply permanent seeding and stabilize slopes in areas where final grading has been completed. Building Construction • Prior to building construction install stone surface for paved areas. • Building pads left dormant for more than 10 days, must be temporarily seeded. • Start building construction. Install staging area for building materials and stabilize. Final Shaping/Landscaping • Utilize topsoil salvage in applicable areas and apply permanent seeding. • Apply permanent seeding the perimeter of the site. • Complete utility installation, curbs, paving and building construction. • Install landscaping plant material and stabilize all disturbed areas. 6. Remove all erosion and sediment control practices when areas have a uniform grass cover.
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.
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.
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 and the Erosion Control Details for details.
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.
RUNOFF CONTROL MEASURES	Riprap has been added to the outlets of the storm infrastructure and curb turnouts to reduce energy of the stormwater runoff. See the Erosion Control Plan for details.
STORMWATER OUTLET PROTECTION SPECIFICATIONS	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.
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.
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.
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 15 days or more. Refer to the Temporary Seeding Detail within Erosion Control Details for specifics on soil amendments, seed mixtures and mulching.
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 lawn or shrub shall be fertilizer with a composition of 1 lb per 1,000 sq. ft. of actual nitrogen, 4 percent phosphorous, and 2 percent potassium by weight. C. Slow-release fertilizer for trees and shrubs: granular fertilizer consisting of 50 percent water-insoluble nitrogen, phosphorus 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. E. Distribute seed evenly over entire area by sowing equal quantity in 2 directions at right angles to each other. F. Rake seed lightly into top 1/8 inch of soil, rock lightly, and water with a fine spray. G. 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. I. Water newly planted lawn areas and keep moist until new grass is established. Immediately repair any lawn areas disturbed by construction activities including tree and shrub installation. J. Refer to the Permanent Seeding Details within the Erosion Control Detail Sheet, for timing of permanent seeding, grass seed specifications and mulching specifications.
MATERIAL HANDLING AND SPILL PREVENTION PLAN	Solid Waste Disposal. 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. Hazardous Waste 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. Dust Control/Off-Site Vehicle Tracking 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.
Sanitary/Septic	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 Source	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 and Storage Areas	Equipment fueling, maintenance, and cleaning should only be completed in protected areas (i.e., bermed area). Leaking equipment and fuel spillage will be collected and not allowed to discharge onto soil where they may be washed away during a rain event.
Hazardous Material Storage	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.
Material Handling and Spill Prevention	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 10 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.
Concrete Washout	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.
Spill Response Plan	Minor – Small spills that typically involve oil, gasoline, paint, hydraulic fluid, etc., can be controlled by the first responder 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 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 soon as possible to prevent migration deeper into the soil and groundwater. Dispose of contaminated soils or 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. • 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 • Name of spill response organization • What measures were taken in the spill response • Other information that may be significant
B14 MONITORING AND MAINTENANCE GUIDELINES FOR EACH PROPOSED STORMWATER QUALITY MEASURE	Inspection Schedule/Reporting 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 at least once every month. 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 must clearly state whether the site is 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 authority. Construction Entrance 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. Material Storage Inspections Inspectors must evaluate areas used for storage of materials that are exposed to precipitation. The purpose is to ensure that 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. Soil Stabilization Inspections 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. Erosion and Sediment Control Inspections All 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: 1. Geotextiles/Erosion Control Mats: Missing or loose matting must be replaced or re-anchored. 2. Inlet Protection: If silt fence inlet protection is to be used, sediment should be removed when it reaches approximately 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 50%. 3. Diversal Swales: Clean debris or other obstructions as needed. Damage from storms or normal construction activities (i.e., tire ruts) shall be repaired immediately. 4. 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. 5. Sediment Trap: Accumulated sediment 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. 6. 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 stockpiled or redistributed in areas that are protected from erosion. 7. Silt Fence: Removal of built-up sediment will occur when the sediment reaches one-third the height of the fence. 8. Stabilized Construction Entrance: Periodic re-grading and top dressing with additional stone. 9. Straw Bales: Replace straw bales that show signs of deterioration. 10. Vegetation: Protect newly seeded areas from excessive runoff and traffic until vegetation is established. 11. Establish a watering and fertilizing schedule. 12. 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 dolly pickup of litter.

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 unusually steep areas, localized concentration 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. Notice of Termination 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 NOI within thirty (30) days after one or more of the following conditions have been met: 1. 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 the homeowner.	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. C1 DESCRIPTION OF POLLUTANTS AND THEIR SOURCES ASSOCIATED WITH THE PROPOSED LAND USE The proposed land use is for commercial food service. The pollutants and sources of each pollutant normally expected from this type of land use are listed below: Pollutant Source: Passenger vehicles, delivery vehicles. 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: 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. Pollutant Source: Lawn and landscape areas Type of Pollutant: Fertilizers, soil, organic material (leaves, mulch, grass clippings) C2 SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION It is recommended that no further stormwater quality measures be implemented beyond the existing detention pond to the east of the site. C3 DESCRIPTION OF PROPOSED POST-CONSTRUCTION STORMWATER QUALITY MEASURES Wet Detention Pond 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 ponds control both storm water quality and quantity. Good Housekeeping Measures Good Housekeeping measures such as regular street sweeping, installation of trash receptacles, and reduction in fertilizer overspray can be incorporated by the owner and/or occupant. C4 LOCATION, DIMENSIONS, SPECIFICATIONS, AND CONSTRUCTION DETAILS OF EACH STORMWATER QUALITY MEASURE The following items are stormwater quality measures that will be installed during construction. These items will remain in place after construction is completed and are considered to serve an incidental function as post-construction stormwater quality BMPs. The proposed detention pond, which will be part of the existing pond, will be located east of the site. Refer to C500 for more information regarding the pond. 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 described below. Refer to the BMP Operations and Maintenance Manual for more detailed maintenance requirements. Detention Ponds (Wet or Dry) Inspect periodically as needed or at least every six months. Sediment shall be disposed of off site in accordance with all applicable laws. Areas that show sign of erosion shall be stabilized with erosion control blanket and/or seed as necessary.
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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.

Notice of Termination
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:

1. 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 the homeowner.

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 USE

The proposed land use is for commercial food service. The pollutants and sources of each pollutant normally expected from this type of land use are listed below:

Pollutant Source: Passenger vehicles, delivery vehicles.
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: 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.

Pollutant Source: Lawn and landscape areas
Type of Pollutant: Fertilizers, soil, organic material (leaves, mulch, grass clippings)

SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION

It is recommended that no further stormwater quality measures be implemented beyond the existing detention pond to the east of the site.

DESCRIPTION OF PROPOSED POST-CONSTRUCTION STORMWATER QUALITY MEASURES

Wet Detention Pond
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 ponds control both storm water quality and quantity.

Good Housekeeping Measures
Good Housekeeping measures such as regular street sweeping, installation of trash receptacles, and reduction in fertilizer overspray can be incorporated by the owner and/or occupant.

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

The following items are stormwater quality measures that will be installed during construction. These items will remain in place after construction is completed and are considered to serve an incidental function as post-construction stormwater quality BMPs.

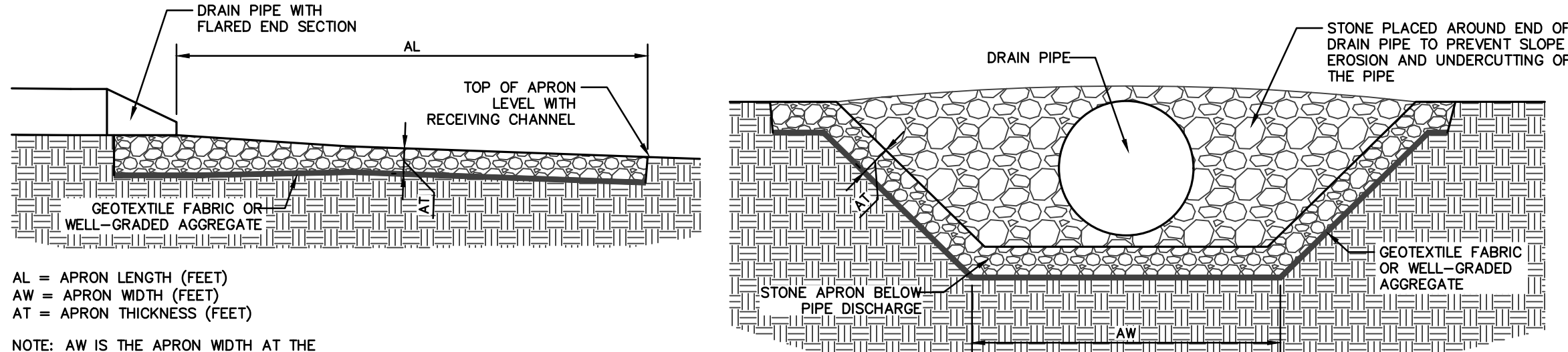
The proposed detention pond, which will be part of the existing pond, will be located east of the site. Refer to C500 for more information regarding the pond.

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

Detention Ponds (Wet or Dry)
Inspect periodically as needed or at least every six months. Sediment shall be disposed of off site in accordance with all applicable laws. Areas that show sign of erosion shall be stabilized with erosion control blanket and/or seed as necessary.

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EDIT DATE: 7/28/2020
EDIT BY: JGUSTAKSON
PLOT DATE: 8/16/2020 8:04 AM
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AL = APRON LENGTH (FEET)
AW = APRON WIDTH (FEET)
AT = APRON THICKNESS (FEET)

NOTE: AW IS THE APRON WIDTH AT THE NARROW END OF THE APRON.

SPECIFICATIONS

- CAPACITY
- PEAK RUNOFF FROM A 10-YEAR FREQUENCY, 24-HOUR STORM EVENT OR THE DESIGN DISCHARGE OF THE WATER CONVEYANCE STRUCTURE, WHICHEVER IS GREATER.

- MAXIMUM VELOCITY
- TEN FEET PER SECOND.

APRON

- ALIGNED STRAIGHT WITH CHANNEL FLOW. IF A CURVE IS NECESSARY TO ALIGN THE APRON WITH THE RECEIVING STREAM, LOCATE THE CURVE IN THE UPSTREAM SECTION OF THE APRON.
- THICKNESS
 - 1.2 TIMES THE MAXIMUM STONE DIAMETER FOR A d_{50} STONE SIZE OF 15 INCHES OR LARGER.
 - 1.5 TIMES THE MAXIMUM STONE DIAMETER FOR A d_{50} STONE SIZE OF 15 INCHES OR LESS.

TABLE 1. SIZING FOR FLOW DISSIPATORS AT CULVERT PIPE OUTLETS

PIPE SIZE	MEDIAN RIPRAP DIAMETER	APRON WIDTH*	APRON LENGTH**
8 IN.	6 IN. MIN.	2 TO 3 FT.	5 TO 7 FT.
12 IN.	6 IN. MIN.	3 TO 4 FT.	6 TO 10 FT.
15 IN.	6 IN. MIN.	4 TO 6 FT.	6 TO 12 FT.
18 IN.	6 IN. MIN.	4 TO 6 FT.	8 TO 16 FT.
21 IN.	6 IN. MIN.	6 TO 8 FT.	8 TO 16 FT.
24 IN.	9 IN. MIN.	6 TO 8 FT.	12 TO 18 FT.
30 IN.	9 IN. MIN.	8 TO 10 FT.	14 TO 20 FT.
36 IN.	9 IN. MIN.	10 TO 12 FT.	16 TO 22 FT.
42 IN.	9 IN. MIN.	12 TO 14 FT.	18 TO 24 FT.
48 IN.	12 IN. MIN.	12 TO 14 FT.	18 TO 26 FT.
54 IN.	12 IN. MIN.	14 TO 16 FT.	22 TO 28 FT.
60 IN.	12 IN. MIN.	15 TO 17 FT.	22 TO 32 FT.
66 IN.	12 IN. MIN.	17 TO 19 FT.	24 TO 36 FT.
72 IN.	12 IN. MIN.	18 TO 20 FT.	26 TO 40 FT.
84 IN.	18 IN. MIN.	21 TO 23 FT.	30 TO 44 FT.

*APRON WIDTH AT THE NARROW END OF APRON (PIPE OR CHANNEL OUTLET).

**SELECT LENGTH TAKING INTO CONSIDERATION THE LOW FLOW (NO PRESSURE HEAD) OR HIGH FLOW (PRESSURE HEAD) CONDITIONS OF THE CULVERT PIPE.

RIPRAP OUTLET PROTECTION

NOT TO SCALE (REV. 12/17)

MATERIALS

- RIPRAP
 - HARD, ANGULAR, HIGHLY WEATHER RESISTANT.
 - SPECIFIC GRAVITY OF AT LEAST 2.5.
 - SIZE AND GRADATION THAT WILL WITHSTAND VELOCITIES OF STORM WATER DISCHARGE FLOW
 - DESIGN.
 - WELL-GRADED MIXTURE OF STONE WITH 50 PERCENT OF THE STONE PIECES, BY WEIGHT, LARGER THAN THE d_{50} SIZE AND THE DIAMETER OF THE LARGEST STONE EQUAL TO 1.5 TIMES THE d_{50} SIZE.
- GEOTEXTILE FABRIC OR WELL-GRADED AGGREGATE (INDOT CA NO. 9, 11, OR 12).

INSTALLATION

1. DIVERT SURFACE WATER RUNOFF AROUND THE STRUCTURE DURING CONSTRUCTION SO THAT THE SITE CAN BE PROPERLY DEWATERED FOR FOUNDATION PREPARATION.
2. EXCAVATE FOUNDATION AND APRON AREA SUBGRADES BELOW DESIGN ELEVATION TO ALLOW FOR THIS THICKNESS OF FILTER MEDIUM AND RIPRAP.
3. COMPACT ANY FILL USED IN SUBGRADE PREPARATION TO THE DENSITY OF SURROUNDING UNDISTURBED SOIL MATERIAL.
4. SMOOTH SUBGRADE ENOUGH TO PROTECT GEOTEXTILE FABRIC FROM TEARS.
5. PLACE GEOTEXTILE FABRIC OR AGGREGATE BEDDING MATERIAL (FOR STABILIZATION AND FILTRATION) ON THE COMPACTED AND SMOOTHED FOUNDATION.
6. INSTALL RIPRAP TO THE LINES AND ELEVATIONS SHOWN IN THE CONSTRUCTION PLANS. BLEND RIPRAP SMOOTHLY TO SURROUNDING GRADE. IF THE CHANNEL IS WELL DEFINED, EXTEND THE APRON ACROSS THE CHANNEL BOTTOM AND UP THE CHANNEL BANKS TO AN ELEVATION OF SIX INCHES ABOVE THE MAXIMUM TAILWATER DEPTH OR THE TOP OF THE BANK, WHICHEVER IS LESS.
7. IF GEOTEXTILE FABRIC TEARS WHEN PLACING RIPRAP, REPAIR IMMEDIATELY BY LAYING AND STAPLING A PIECE OF FABRIC OVER DAMAGED AREA, OVERLAPPING THE UNDAMAGED AREAS BY AT LEAST 12 INCHES.
8. CONSTRUCT A SMALL PLUNGE POOL WITHIN THE OUTLET APRON. (RIPRAP APRONS MUST BE LEVEL WITH OR SLIGHTLY LOWER THAN THE RECEIVING CHANNEL AND SHOULD NOT PRODUCE AN OVERFALL OR RESTRICT FLOW OF THE WATER CONVEYANCE STRUCTURE.)

MAINTENANCE

- INSPECT WITHIN 24 HOURS OF A RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
- INSPECT FOR STONE DISPLACEMENT; REPLACE STONES ENSURING PLACEMENT AT FINISHED GRADE.
- CHECK FOR EROSION OR SCOURING AROUND SIDES OF THE APRON; REPAIR IMMEDIATELY.
- CHECK FOR PIPING OR UNDERCUTTING; REPAIR IMMEDIATELY.

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 PHOSPHORUS APPLICATION WHERE SOIL TESTS INDICATE ADEQUATE PHOSPHORUS 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–JUNE 1
BUCKWHEAT	60 LBS.	1 TO 2 INCHES	APRIL 15–JUNE 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 SEEDING 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

1. TEST SOIL TO DETERMINE pH AND NUTRIENT LEVELS.
2. 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.
3. WORK THE SOIL AMENDMENTS INTO THE UPPER TWO TO FOUR INCHES OF THE SOIL WITH A DISK OR RAKE OPERATED ACROSS THE SLOPE.

SEEDING

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

NOTES:

1. 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.
2. DAILY SEEDING WHEN THE SOIL IS MOIST IS USUALLY MOST EFFECTIVE.
3. IF SEEDING IS DONE WITH A HYDROSEEDER, FERTILIZER AND MULCH CAN BE APPLIED WITH THE SEED IN A SLURRY MIXTURE.

3. 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 SEEDING 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

DRAINAGE AREA

- LIMITED TO ONE-QUARTER ACRE PER 100 LINEAR FEET OF FENCE.
- FURTHER RESTRICTED BY SLOPE STEEPNESS (SEE TABLE 1).

EFFECTIVE LIFE

- SIX MONTHS (MAXIMUM).

LOCATION

- INSTALLED PARALLEL TO THE SLOPE CONTOUR.
- MINIMUM OF 10 FEET BEYOND THE TOE OF THE SLOPE TO PROVIDE A BROAD, SHALLOW SEDIMENT POOL.
- ACCESSIBLE FOR MAINTENANCE (REMOVAL OF SEDIMENT AND SILT FENCE REPAIR).

SPACING

TABLE 1. SLOPE STEEPNESS RESTRICTIONS

PERCENT SLOPE	MAXIMUM DISTANCE
< 2%	< 50:1
2% – 5%	50:1 TO 20:1
5% – 10%	20:1 TO 10:1
10% – 20%	10:1 TO 5:1
> 20%	> 5:1

*CONSIDER OTHER ALTERNATIVES.

NOTE: MULTIPLE ROWS OF SILT FENCE ARE NOT RECOMMENDED ON THE SAME SLOPE.

TRENCH

- DEPTH: EIGHT INCHES MINIMUM.
- WIDTH: FOUR INCHES MINIMUM.
- AFTER INSTALLING THE FENCE, BACKFILL WITH SOIL MATERIAL AND COMPACT (TO BURY AND ANCHOR THE LOWER PORTION OF THE FENCE FABRIC).

NOTE: AN ALTERNATIVE TO TRENCHING IS TO USE MECHANICAL EQUIPMENT TO FLOW IN THE SILT FENCE.

MATERIALS AND SILT FENCE SPECIFICATIONS

- FABRIC – WOVEN OR NON-WOVEN GEOTEXTILE FABRIC, MEETING SPECIFIED MINIMUMS
- OUTLINED IN TABLE 2.

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

PHYSICAL PROPERTY	WOVEN GEOTEXTILE FABRIC	NON-WOVEN GEOTEXTILE FABRIC
FILTERING EFFICIENCY	85%	85%
TEXTILE STRENGTH AT 20% ELONGATION	30 LBS. PER LINEAL INCH	50 LBS. PER LINEAL INCH
STANDARD STRENGTH	50 LBS. PER LINEAL INCH	70 LBS. PER LINEAL INCH
EXTRA STRENGTH	0.3 GAL./MIN./SQUARE FOOT	4.5 GAL./MIN./SQUARE FOOT
SLURRY FLOW RATE	15 GAL./MIN./SQUARE FOOT	220 GAL./MIN./SQUARE FOOT
WATER FLOW RATE	70%	85%
UV RESISTANCE	7 FEET	5 FEET
POST SPACING		

NOTE: SILT FENCES CAN BE PURCHASED COMMERCIALY.

- HEIGHT – A MINIMUM OF 18 INCHES ABOVE GROUND LEVEL (30 INCHES MAXIMUM).
- REINFORCEMENT – FABRIC SECURELY FASTENED TO POSTS WITH WOOD LATHE.
- SUPPORT POSTS – 2x2 INCH HARDWOOD POSTS. STEEL FENCE POSTS MAY BE SUBSTITUTED FOR HARDWOOD POSTS (STEEL POSTS SHOULD HAVE PROJECTIONS FOR FASTENING FABRIC).
- SPACING – EIGHT FEET MAXIMUM IS FENCE IS SUPPORTED BY WIRE MESH FENCING, SIX FEET MAXIMUM FOR EXTRA-STRENGTH FABRIC WITHOUT WIRE BACKING.

SILT FENCE CONSTRUCTION

NOT TO SCALE (REV. 01/17)

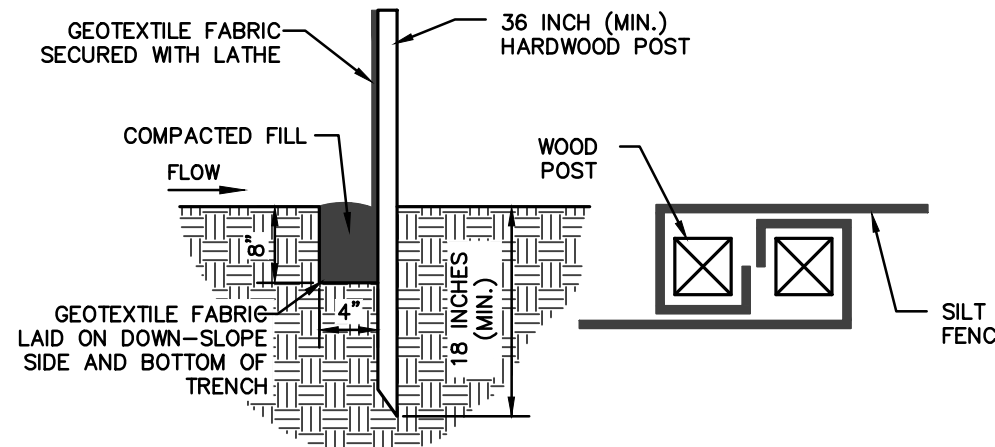
INSTALLATION

1. LAY OUT THE LOCATION OF THE FENCE SO THAT IS IS PARALLEL TO THE CONTOUR OF THE SLOPE AND AT LEAST 10 FEET BEYOND THE TOE OF THE SLOPE TO PROVIDE A SEDIMENT STORAGE AREA. TURN THE ENDS OF THE FENCE UP SLOPE SUCH THAT THE POINT OF CONTACT BETWEEN THE GROUND AND THE BOTTOM OF THE FENCE END TERMINATES AT A HIGHER ELEVATION THAN THE TOP OF THE FENCE AT ITS LOWEST POINT.
2. EXCAVATE AN EIGHT-INCH DEEP BY FOUR-INCH WIDE TRENCH ALONG THE ENTIRE LENGTH OF THE FENCE LINE. INSTALLATION BY PLOWING IS ALSO ACCEPTABLE.
3. INSTALL THE SILT FENCE WITH THE FILTER FABRIC LOCATED ON THE UP-SLOPE SIDE OF THE EXCAVATED TRENCH AND THE SUPPORT POSTS ON THE DOWN-SLOPE SIDE OF THE TRENCH.
4. DRIVE THE SUPPORT POSTS AT LEAST 18 INCHES INTO THE GROUND, TIGHTLY STRETCHING THE FABRIC BETWEEN THE POSTS AS EACH IS DRIVEN INTO THE SOIL. A MINIMUM OF 12 INCHES OF THE FILTER FABRIC SHOULD EXTEND INTO THE TRENCH. (IF IT IS NECESSARY TO JOIN THE ENDS OF TWO FENCES, USE THE JOINT METHOD SHOWN.) LAY THE FOUR INCHES OF FILTER FABRIC ON THE BOTTOM OF THE TRENCH AND EXTEND IT TOWARD THE UP-SLOPE SIDE OF THE TRENCH.
5. BACKFILL THE TRENCH WITH SOIL MATERIAL AND COMPACT IT IN PLACE.

NOTE: IF THE SILT FENCE IS BEING CONSTRUCTED ON-SITE, ATTACH THE FILTER FABRIC TO THE SUPPORT POSTS (REFER TO TABLES 1 AND 2 FOR SPACING AND GEOTEXTILE SPECIFICATIONS) AND ATTACH WOODEN LATHE TO SECURE THE FABRIC TO THE POSTS. ALLOW FOR AT LEAST 12 INCHES OF FABRIC BELOW GROUND LEVEL. COMPLETE THE SILT FENCE INSTALLATION, FOLLOWING STEPS 1 THROUGH 6 ABOVE.

MAINTENANCE

- INSPECT WITHIN 24 HOURS OF A RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
- IF FENCE FABRIC TEARS, STARTS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY. ALL REPAIRS SHOULD MEET SPECIFICATIONS AS OUTLINED WITHIN THIS MEASURE.
- REMOVE DEPOSITED SEDIMENT WHEN IT IS CAUSING THE FILTER FABRIC TO BULGE OR WHEN IT REACHES ON-HALF THE HEIGHT OF THE FENCE AT ITS LOWEST POINT. WHEN CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE THE FENCE AND SEDIMENT DEPOSITS, GRADE THE SITE TO BLEND WITH THE SURROUNDING AREA, AND STABILIZE.



NOTE: SILT FENCE IS NOT RECOMMENDED FOR USE AS A DIVERSION AND SHOULD NOT BE USED ACROSS A STREAM, CHANNEL, DITCH, SWALE, OR ANYWHERE THAT CONCENTRATED FLOW IS ANTICIPATED.

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

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

MULCH APPLICATION

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

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, APPLY NEW MULCH AND ANCHOR THE MULCH IN PLACE.
- CONTINUE INSPECTIONS UNTIL VEGETATION IS FIRMLY ESTABLISHED.
- IF EROSION IS SEVERE OR RECURRING, USE EROSION CONTROL BLANKETS OR OTHER MORE SUBSTANTIAL STABILIZATION METHODS TO PROTECT THE AREA.

SPECIFICATIONS

LOCATION

- AVOID LOCATING ON STEEP SLOPES OR AT CURVES IN PUBLIC ROADS.

DIMENSIONS

- WIDTH: TWENTY (20) FEET MINIMUM OR FULL WIDTH OF ENTRANCE/EXIT DRIVE, WHICHEVER IS GREATER.
- LENGTH: FIFTY (50) FEET MINIMUM OR FULL LENGTH OF DRIVE, WHICHEVER IS GREATER.
- THICKNESS: SIX (6) INCHES MINIMUM.

MATERIALS

- ONE (1) TO TWO AND ONE-HALF (2-1/2) INCH DIAMETER WASHED AGGREGATE (INDOT CA NO. 2).
- ONE-HALF (1/2) TO ONE AND ONE-HALF (1-1/2) INCH WASHED AGGREGATE (INDOT CA NO. 53). OPTIMUM WHERE THE PURPOSE OF THE PAD IS TO KEEP SOIL FROM ADHERING TO VEHICLE TIRES.
- GEOTEXTILE FABRIC UNDERLAYMENT (USED AS A SEPARATE LAYER TO PREVENT INTERMING OF AGGREGATE AND THE UNDERLYING SOIL MATERIAL AND TO PROVIDE GREATER BEARING STRENGTH WHEN ENCOUNTERING WET CONDITIONS OR SOILS WITH SEASONAL HIGH WATER TABLE LIMITATIONS).

INSTALLATION

1. REMOVE ALL VEGETATION AND OTHER OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA.
2. GRADE THE FOUNDATION AND CROWN FOR POSITIVE DRAINAGE.
3. INSTALL A CULVERT PIPE UNDER THE PAD IF NEEDED TO MAINTAIN PROPER PUBLIC ROAD DRAINAGE.
4. IF WET CONDITIONS ARE ANTICIPATED, PLACE GEOTEXTILE FABRIC ON THE GRADED FOUNDATION TO IMPROVE STABILITY.
5. PLACE AGGREGATE (INDOT CA NO. 2) TO THE DIMENSIONS AND GRADE SHOWN IN THE CONSTRUCTION PLANS, LEAVING THE SURFACE SMOOTH AND SLOPED FOR DRAINAGE.
6. WHERE POSSIBLE, DIVERT ALL STORM WATER RUNOFF AND DRAINAGE FROM THE TEMPORARY CONSTRUCTION INGRESS/EGRESS PAD TO A SEDIMENT TRAP OR BASIN.

MAINTENANCE

- INSPECT DAILY.
- RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
- TOP–DRESS WITH CLEAN AGGREGATE AS NEEDED.
- IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS.
- FISHING SHOULD ONLY BE USED IF THE WATER FROM THE CONSTRUCTION DRIVE CAN BE CONVEYED INTO A SEDIMENT TRAP OR BASIN.

GRAVEL CONSTRUCTION ENTRANCE

(SITES LESS THAN TWO ACRES)

NOT TO SCALE (REV. 01/17)

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Tyler M. Comstock
CERTIFIED BY

ISSUANCE INDEX

DATE:

09/16/2020

PROJECT PHASE:

CONSTRUCTION DOCUMENTS

REVISION SCHEDULE

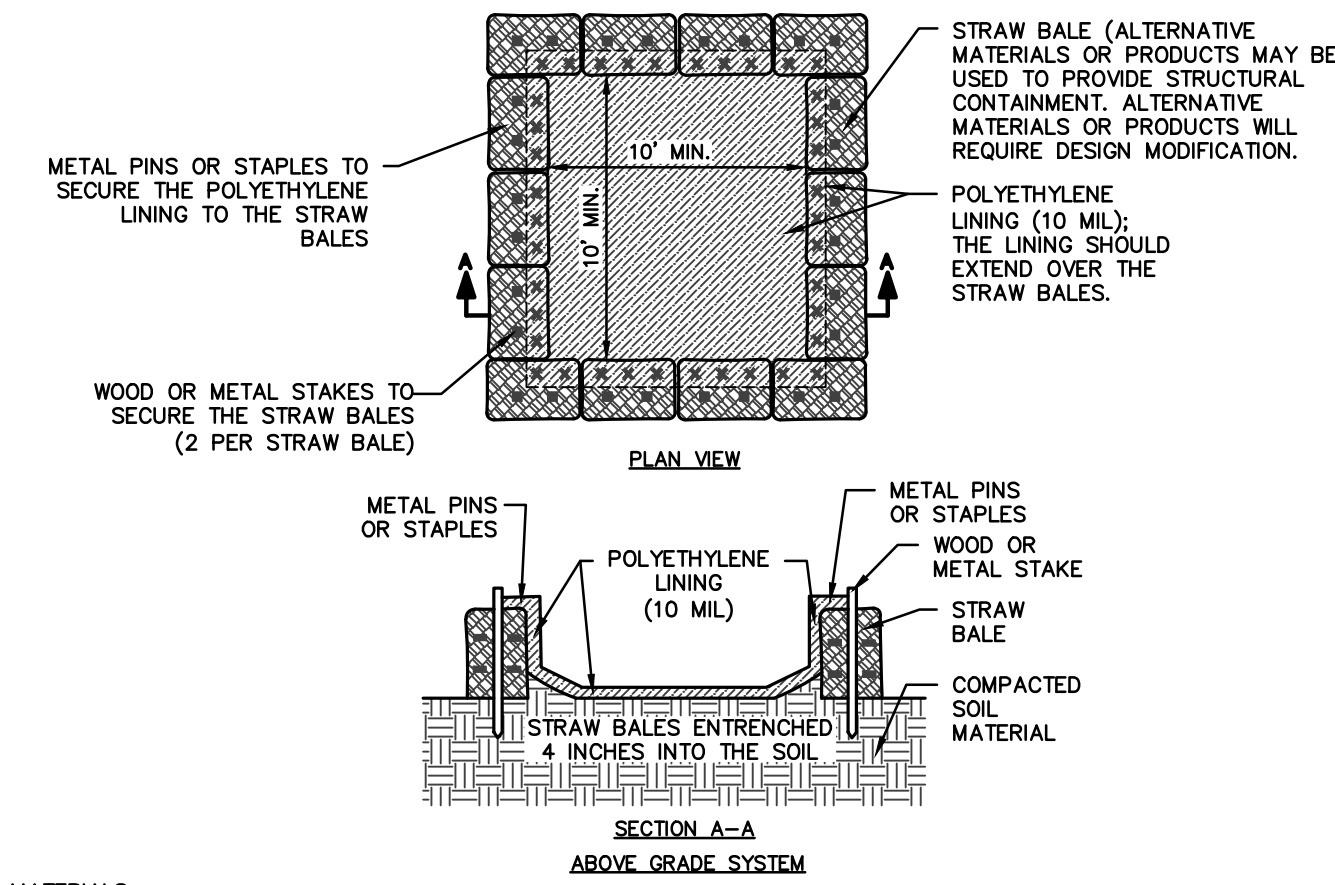
NO.	DESCRIPTION	DATE

Project Number 2020.01229

EROSION CONTROL DETAILS

C520

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- MATERIALS**
- MINIMUM OF TEN MIL POLYETHYLENE SHEETING THAT IS FREE OF HOLES, TEARS, AND OTHER DEFECTS. THE SHEETING SELECTED SHOULD BE OF AN APPROPRIATE SIZE TO FIT THE WASHOUT SYSTEM WITHOUT SEAMS OR OVERLAP OF THE LINING (DESIGNED AND INSTALLED SYSTEMS).
 - ORANGE SAFETY FENCING OR EQUIVALENT.
 - STRAW BALES, SANDBAGS (BAGS SHOULD BE ULTRAVIOLET-STABILIZED GEOTEXTILE FABRIC), SOIL MATERIAL, OR OTHER APPROPRIATE MATERIALS THAT CAN BE USED TO CONSTRUCT A CONTAINMENT SYSTEM (ABOVE GRADE SYSTEMS).
 - METAL PINS OR STAPLES AT A MINIMUM OF SIX INCHES IN LENGTH, SANDBAGS, OR ALTERNATIVE FASTENER TO SECURE POLYETHYLENE LINING TO THE CONTAINMENT SYSTEM.
 - NON-COLLAPSING AND NON-WATER HOLDING COVER FOR USE DURING RAIN EVENTS (OPTIONAL).

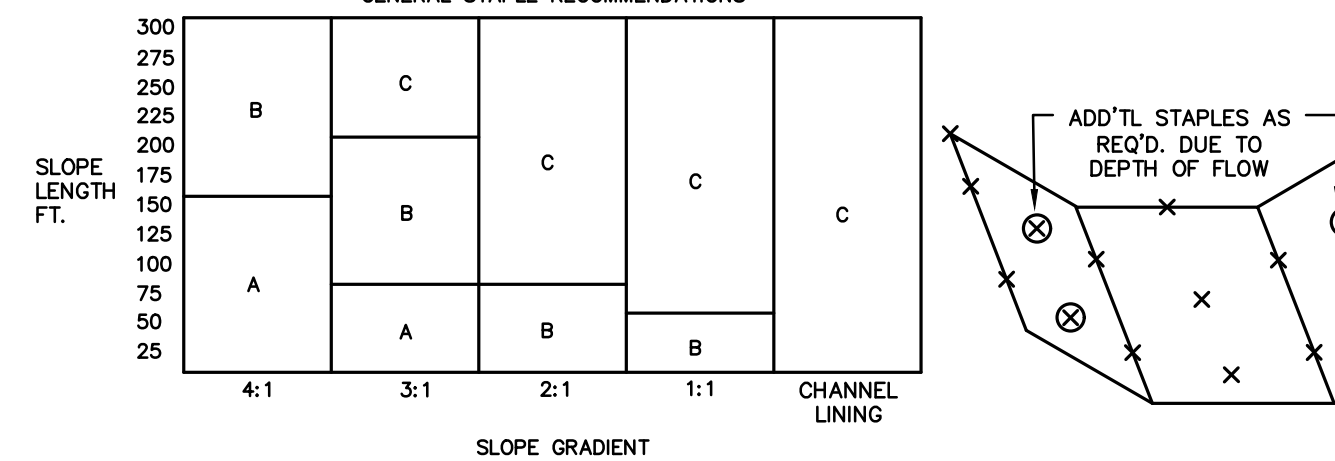
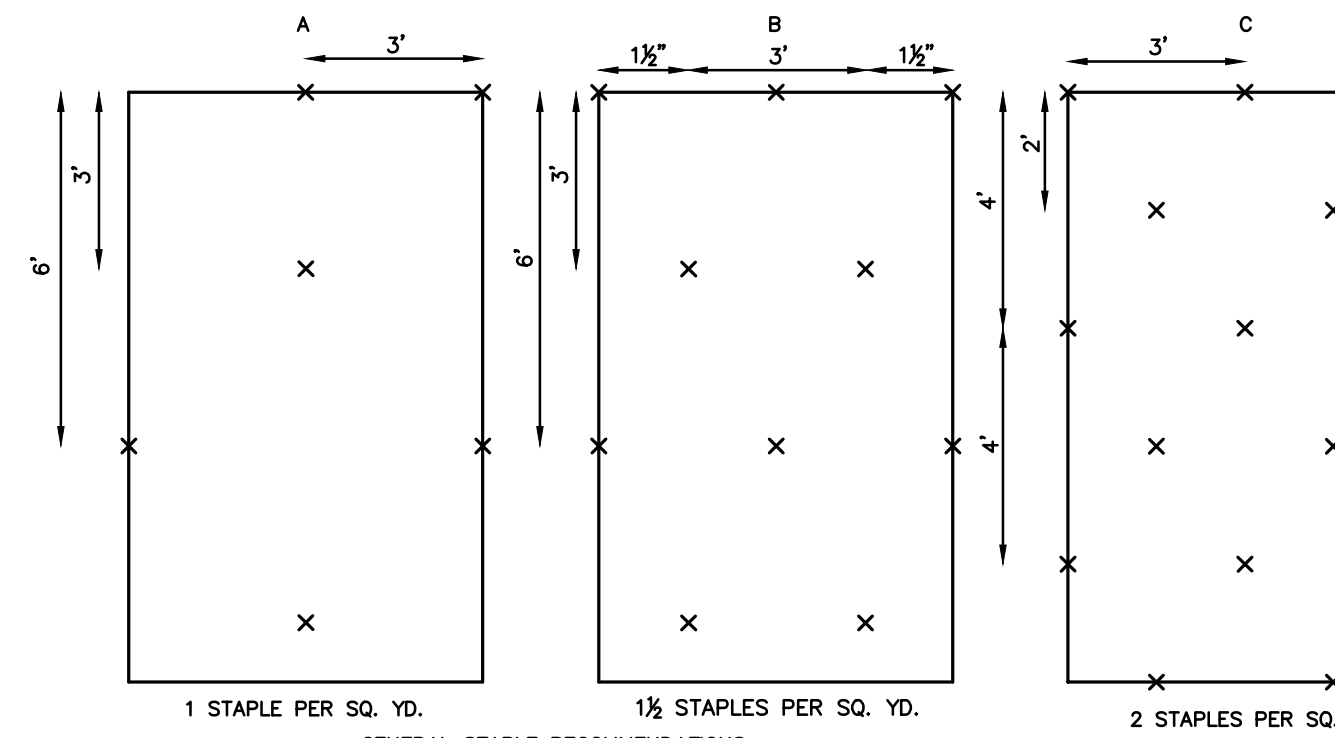
- INSTALLATION**
- PREFABRICATED WASHOUT SYSTEMS/CONTAINERS**
- INSTALL AND LOCATE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
- DESIGNED AND INSTALLED SYSTEMS**
- UTILIZE AND FOLLOW THE DESIGN IN THE STORM WATER POLLUTION PREVENTION PLAN TO INSTALL THE SYSTEM.
 - DEPENDENT UPON THE TYPE OF SYSTEM, EITHER EXCAVATE THE PIT OR INSTALL THE CONTAINMENT SYSTEM. A BASE SHALL BE CONSTRUCTED AND PREPARED THAT IS FREE OF ROCKS AND OTHER DEBRIS THAT MAY CAUSE TEARS OR PUNCTURES IN THE POLYETHYLENE LINING.
 - INSTALL THE POLYETHYLENE LINING. FOR EXCAVATED SYSTEMS, THE LINING SHOULD EXTEND OVER THE ENTIRE EXCAVATION. THE LINING FOR BERMED SYSTEMS SHOULD BE INSTALLED OVER THE POOLING AREA WITH ENOUGH MATERIAL TO EXTEND THE LINING OVER THE BERM OR CONTAINMENT SYSTEM. THE LINING SHOULD BE SECURED WITH PINS, STAPLES, OR OTHER FASTENERS.
 - PLACE FLAGS, SAFETY FENCING, OR EQUIVALENT TO PROVIDE A BARRIER TO CONSTRUCTION EQUIPMENT AND OTHER TRAFFIC.
 - PLACE A NON-COLLAPSING, NON-WATER HOLDING COVER OVER THE WASHOUT FACILITY PRIOR TO A PREDICTED RAINFALL EVENT TO PREVENT ACCUMULATION OF WATER AND POSSIBLE OVERFLOW OF THE SYSTEM (OPTIONAL).
 - INSTALL SIGNAGE THAT IDENTIFIES CONCRETE WASHOUT AREAS.
 - POST SIGNS DIRECTING CONTRACTORS AND SUPPLIERS TO DESIGNATED LOCATIONS.
 - WHERE NECESSARY, PROVIDE STABLE INGRESS AND EGRESS OR ALTERNATIVE APPROACH PAD FOR CONCRETE WASHOUT SYSTEMS.

- MAINTENANCE**
- INSPECT DAILY AND AFTER EACH STORM EVENT.
 - INSPECT THE INTEGRITY OF THE OVERALL STRUCTURE INCLUDING, WHERE APPLICABLE, THE CONTAINMENT SYSTEM.
 - INSPECT THE SYSTEM FOR LEAKS, SPILLS, AND TRACKING OF SOIL BY EQUIPMENT.
 - INSPECT THE POLYETHYLENE LINING FOR FAILURE, INCLUDING TEARS AND PUNCTURES.
 - ONCE CONCRETE WASTES HARDEN, REMOVE, AND DISPOSE OF THE MATERIAL.
 - EXCESS CONCRETE SHOULD BE REMOVED WHEN THE WASHOUT SYSTEM REACHES 50 PERCENT OF THE DESIGN CAPACITY. USE OF THE SYSTEM SHOULD BE DISCONTINUED UNTIL APPROPRIATE MEASURES CAN BE INITIATED TO CLEAN THE STRUCTURE. PREFABRICATED SYSTEMS SHOULD ALSO UTILIZE THIS CRITERION, UNLESS THE MANUFACTURER HAS ALTERNATE SPECIFICATIONS.
 - UPON REMOVAL OF THE SOLIDS, INSPECT THE STRUCTURE. REPAIR THE STRUCTURE AS NEEDED OR CONSTRUCT A NEW SYSTEM.
 - DISPOSE OF ALL CONCRETE IN A LEGAL MANNER. REUSE THE MATERIAL ON SITE, RECYCLE OR HAUL THE MATERIAL TO AN APPROVED CONSTRUCTION/DEMOLITION LANDFILL SITE. RECYCLING OF MATERIAL IS ENCOURAGED. THE WASTE MATERIAL CAN BE USED FOR MULTIPLE APPLICATIONS INCLUDING BUT NOT LIMITED TO ROADBEDS AND BUILDING. THE AVAILABILITY FOR RECYCLING SHOULD BE CHECKED LOCALLY.
 - THE PLASTIC LINER SHOULD BE REPLACED AFTER EVERY CLEANING; THE REMOVAL OF MATERIAL WILL USUALLY DAMAGE THE LINING.
 - THE CONCRETE WASHOUT SYSTEM SHOULD BE REPAIRED OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE.
 - CONCRETE WASHOUT SYSTEMS ARE DESIGNED TO PROMOTE EVAPORATION. HOWEVER, IF THE LIQUIDS DO NOT EVAPORATE AND THE SYSTEM IS NEAR CAPACITY IT MAY BE NECESSARY TO VACUUM OR REMOVE THE LIQUIDS AND DISPOSE OF THEM IN AN ACCEPTABLE METHOD. DISPOSAL MAY BE ALLOWED AT THE LOCAL SANITARY SEWER AUTHORITY PROVIDED THEIR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMITS ALLOW FOR ACCEPTANCE OF THIS MATERIAL. ANOTHER OPTION WOULD BE TO UTILIZE A SECONDARY CONTAINMENT SYSTEM OR BASIN FOR FUTURE DEWATERING.
 - PREFABRICATED UNITS ARE OFTEN PUMPED AND THE COMPANY SUPPLYING THE UNIT PROVIDES THIS SERVICE.
 - INSPECT CONSTRUCTION ACTIVITIES ON A REGULAR BASIS TO ENSURE SUPPLIERS, CONTRACTORS, AND OTHERS ARE UTILIZING DESIGNATED WASHOUT AREAS. IF CONCRETE WASTE IS BEING DISPOSED OF IMPROPERLY, IDENTIFY THE VIOLATORS AND TAKE APPROPRIATE ACTION.
 - WHEN CONCRETE WASHOUT SYSTEMS ARE NO LONGER REQUIRED, THE CONCRETE WASHOUT SYSTEMS SHALL BE CLOSED, DISPOSE OF ALL HARDENED CONCRETE AND OTHER MATERIALS USED TO CONSTRUCT THE SYSTEM. HOLES, DEPRESSIONS AND OTHER LAND DISTURBANCES ASSOCIATED WITH THE SYSTEM SHOULD BE BACKFILLED, GRADED, AND STABILIZED.

- SPECIFICATIONS**
- SITE MANAGEMENT**
- COMPLETE CONSTRUCTION/INSTALLATION OF THE SYSTEM AND HAVE WASHOUT LOCATIONS OPERATIONAL PRIOR TO CONCRETE DELIVERY.
 - DO NOT WASH OUT CONCRETE TRUCKS OR EQUIPMENT INTO STORM DRAINS, WETLANDS, STREAMS, RIVERS, CREEKS, DITCHES, OR STREETS.
 - NEVER WASH OUT INTO A STORM SEWER DRAINAGE SYSTEM. THESE SYSTEMS ARE TYPICALLY CONNECTED TO A NATURAL CONVEYANCE SYSTEM.
 - WHERE NECESSARY, PROVIDE STABLE INGRESS AND EGRESS.
 - IT IS RECOMMENDED THAT WASHOUT SYSTEMS BE RESTRICTED TO WASHING CONCRETE FROM MIXER AND PUMP TRUCKS AND NOT USED TO DISPOSE OF EXCESS CONCRETE OR EXCESS LOADS DUE TO THE POTENTIAL TO EXCEED THE DESIGN CAPACITY OF THE WASHOUT SYSTEM. SMALL AMOUNTS OF EXCESS OR RESIDUAL

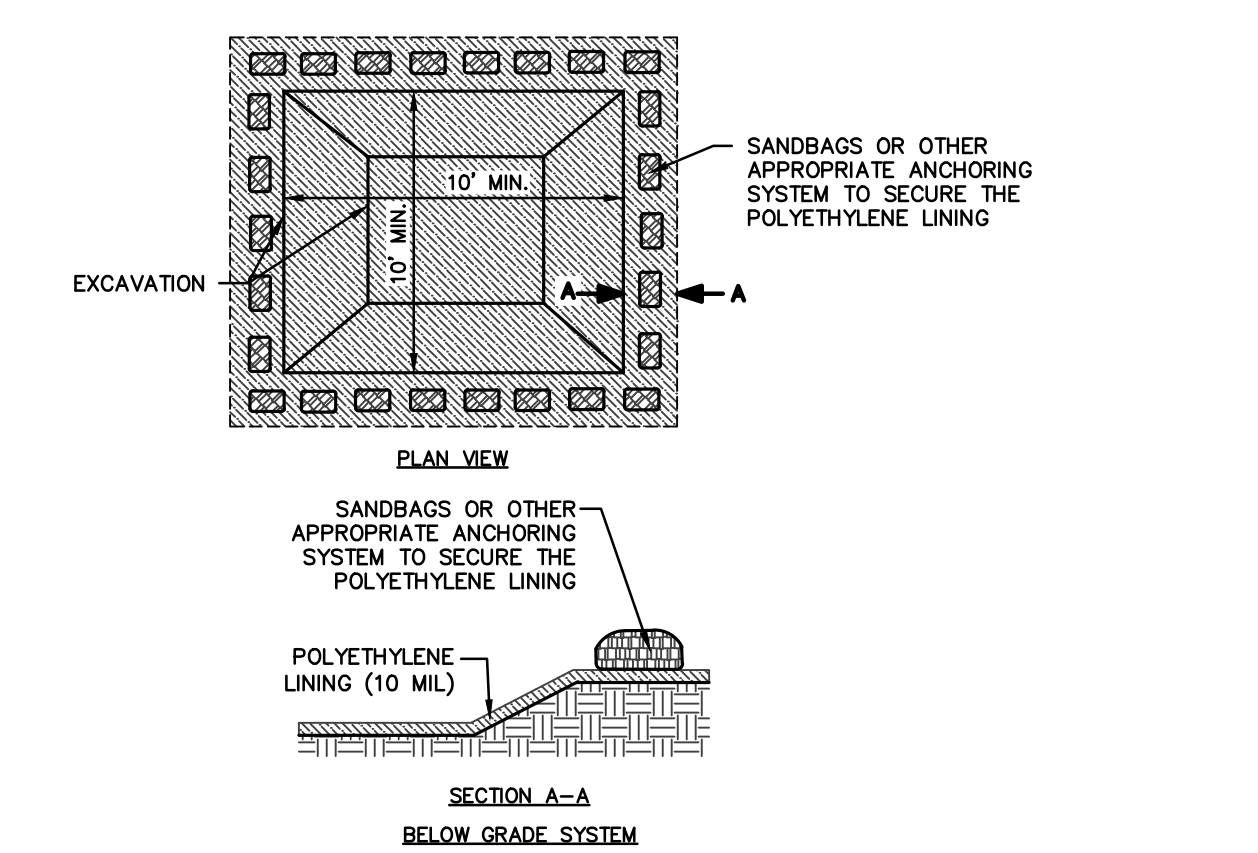
CONCRETE WASH OUT

NOT TO SCALE (REV. 01/17)



EROSION CONTROL BLANKET

NOT TO SCALE (REV. 01/17)



- CONCRETE (NOT WASHOUT WATER) MAY BE DISPOSED OF IN AREAS THAT WILL NOT RESULT IN FLOW TO AN AREA THAT IS TO BE PROTECTED.
- INSTALL SYSTEMS AT STRATEGIC LOCATIONS THAT ARE CONVENIENT AND IN CLOSE PROXIMITY TO WORK AREAS AND IN SUFFICIENT NUMBER TO ACCOMMODATE THE DEMAND FOR DISPOSAL.
 - INSTALL SIGNAGE IDENTIFYING THE LOCATION OF CONCRETE WASHOUT SYSTEMS.

- LOCATION**
- LOCATE CONCRETE WASHOUT SYSTEMS AT LEAST 50 FEET FROM ANY CREEKS, WETLANDS, DITCHES, KARST FEATURES, OR STORM DRAINAGE MANAGEABLE CONVEYANCE SYSTEMS.
 - TO THE EXTENT PRACTICAL, LOCATE CONCRETE WASHOUT SYSTEMS IN RELATIVELY FLAT AREAS THAT HAVE ESTABLISHED VEGETATIVE COVER AND DO NOT RECEIVE RUNOFF FROM ADJACENT LAND AREAS.
 - LOCATE IN AREAS THAT PROVIDE EASY ACCESS FOR CONCRETE TRUCKS AND OTHER CONSTRUCTION EQUIPMENT.
 - LOCATE AWAY FROM OTHER CONSTRUCTION TRAFFIC TO REDUCE THE POTENTIAL FOR DAMAGE TO THE SYSTEM.

- GENERAL DESIGN CONSIDERATIONS**
- THE STRUCTURE OR SYSTEM SHALL BE DESIGNED TO CONTAIN THE ANTICIPATED WASHOUT WATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
 - THE SYSTEM SHALL BE DESIGNED, TO THE EXTENT PRACTICAL, TO ELIMINATE RUNOFF FROM ENTERING THE WASHOUT SYSTEM.
 - LOCATIONS.
 - WASHOUT WILL NOT IMPACT FUTURE LAND USES (I.E., OPEN SPACES, LANDSCAPED AREAS, HOME SITES, PARKS).
 - WASHOUT SYSTEMS/CONTAINMENTS MEASURES MAY ALSO BE UTILIZED ON SMALLER INDIVIDUAL BUILDING SITES. THE DESIGN AND SIZE OF THE SYSTEM CAN BE ADJUSTED TO ACCOMMODATE THE EXPECTED CAPACITY.

- PREFABRICATED WASHOUT SYSTEMS/CONTAINERS**
- SELF-CONTAINED STURDY CONTAINMENT SYSTEMS THAT ARE DELIVERED TO A SITE AND LOCATED AT STRATEGIC LOCATIONS FOR CONCRETE DISPOSAL.
 - THESE SYSTEMS ARE MANUFACTURED TO RESIST DAMAGE FROM CONSTRUCTION EQUIPMENT AND PROTECT AGAINST LEAKS OR SPILLS.
 - MANUFACTURER OR SUPPLIER PROVIDES THE CONTAINERS. THE PROJECT SITE MANAGER MAINTAINS THE SYSTEM OR THE SUPPLIER PROVIDES COMPLETE SERVICE THAT INCLUDES MAINTENANCE AND DISPOSAL.
 - UNITS ARE OFTEN AVAILABLE WITH OR WITHOUT RAMPS. UNITS WITH RAMPS LEND THEMSELVES TO ACCOMMODATE PUMP TRUCKS.
 - MAINTAIN ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

- DESIGNED AND INSTALLED UNITS**
- THESE UNITS ARE DESIGNED AND INSTALLED ON SITE. THEY TEND TO BE LESS RELIABLE THAN PREFABRICATED SYSTEMS ARE OFTEN PRONE TO FAILURE. CONCRETE WASHOUT SYSTEMS CAN BE CONSTRUCTED ABOVE, OR BELOW GRADE. IT IS NOT UNCOMMON TO HAVE A SYSTEM THAT IS PARTLY BELOW GRADE WITH AN ADDITIONAL CONTAINMENT STRUCTURE ABOVE GRADE.
- WASHOUT SYSTEMS SHALL UTILIZE A PIT OR BERMED AREA DESIGNED AND MAINTAINED AT A CAPACITY TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
 - THE VOLUME OF THE SYSTEM MUST ALSO BE DESIGNED TO CONTAIN RUNOFF THAT DRAINS TO THE SYSTEM AND RAINFALL THAT ENTERS THE SYSTEM FOR A TWO-YEAR FREQUENCY, 24-HOUR STORM EVENT.

- BELOW GRADE SYSTEM**
- A WASHOUT SYSTEM INSTALLED BELOW GRADE SHOULD BE A MINIMUM OF TEN FEET WIDE BY TEN FEET LONG, BUT SIZED TO CONTAIN ALL LIQUID AND WASTE THAT IS EXPECTED TO BE GENERATED BETWEEN SCHEDULED CLEANOUT PERIODS. THE SIZE OF THE PIT MAY BE LIMITED BY THE SIZE OF THE POLYETHYLENE AVAILABLE. THE POLYETHYLENE LINING SHOULD BE ACCURATELY SIZED TO EXTEND OVER THE ENTIRE EXCAVATION.
 - INCLUDE A MINIMUM 12-INCH FREEBOARD TO REASONABLY ENSURE THAT THE STRUCTURE WILL NOT OVERTOP DURING A RAIN EVENT.
 - LINE THE PIT WITH TEN MIL POLYETHYLENE LINING TO CONTROL SEEPAGE.
 - THE BOTTOM OF EXCAVATED PIT SHOULD BE ABOVE THE SEASONAL HIGH WATER TABLE.

- ABOVE GRADE SYSTEM**
- A SYSTEM DESIGNED AND BUILT ABOVE GRADE SHOULD BE A MINIMUM OF TEN FEET WIDE BY TEN FEET LONG, BUT SIZED TO CONTAIN ALL LIQUID AND WASTE THAT IS EXPECTED TO BE GENERATED BETWEEN SCHEDULED CLEANOUT PERIODS. THE SIZE OF THE CONTAINMENT SYSTEM MAY BE LIMITED BY THE SIZE OF POLYETHYLENE AVAILABLE. THE POLYETHYLENE LINING SHOULD BE OF ADEQUATE SIZE TO EXTEND OVER THE BERM OR CONTAINMENT SYSTEM.
 - THE SYSTEM DESIGN MAY UTILIZE AN EARTHEN BERM, STRAW BALES, SANDBAGS, OR OTHER ACCEPTABLE BARRIERS THAT WILL MAINTAIN ITS SHAPE AND INTEGRITY AND SUPPORT THE POLYETHYLENE LINING.
 - INCLUDE A MINIMUM FOUR-INCH FREEBOARD AS PART OF THE DESIGN.

- WASHOUT PROCEDURES**
- DO NOT LEAVE EXCESS MUD IN THE CHUTES OR HOPPER AFTER THE POUR. EVERY EFFORT SHOULD BE MADE TO EMPTY THE CHUTES AND HOPPER AT THE POUR. THE LESS MATERIAL LEFT IN THE CHUTES AND HOPPER, THE QUICKER AND EASIER THE CLEANOUT. SMALL AMOUNTS OF EXCESS CONCRETE (NOT WASHOUT WATER) MAY BE DISPOSED OF IN AREAS THAT WILL NOT RESULT IN FLOW TO AN AREA THAT IS TO BE PROTECTED.
 - DO NOT WASH OUT MATERIAL FROM THE CHUTES AS MUCH AS POSSIBLE BEFORE WASHING THEM. USE NON-WATER CLEANING METHODS TO MINIMIZE THE CHANCE FOR WASTE TO FLOW OFF SITE.
 - REMOVE AS MUCH MUD AS POSSIBLE WHEN WASHING OUT.
 - STOP WASHING OUT IN AN AREA IF WATER RUNNING OFF THE DESIGNATED AREA OR IF THE CONTAINMENT SYSTEM IS LEAKING OR OVERFLOWING AND INEFFECTIVE.
 - DO NOT BACK FLUSH EQUIPMENT AT THE PROJECT SITE. BACK FLUSHING SHOULD BE RESTRICTED TO THE PLANT AS IT GENERATES LARGE VOLUMES OF WASTE THAT MORE THAN LIKELY WILDS THE CAPACITY OF MOST WASHOUT SYSTEMS. IF AN EMERGENCY ARISES, BACK FLUSH SHOULD ONLY BY PERFORMED WITH THE PERMISSION OF AN ON-SITE MANAGER FOR THE PROJECT.
 - DO NOT USE ADDITIVES WITH WASH WATER. DO NOT USE SOLVENTS OR ACIDS THAT MAY BE USED AT THE TARGET PLANT.

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

INSTALLATION

- 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.
- PREPARE THE SEEDBED, ADD SOIL AMENDMENTS, AND PERMANENTLY SEED THE AREA IMMEDIATELY FOLLOWING SEEDBED PREPARATION.
- 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.
- 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.
- 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.

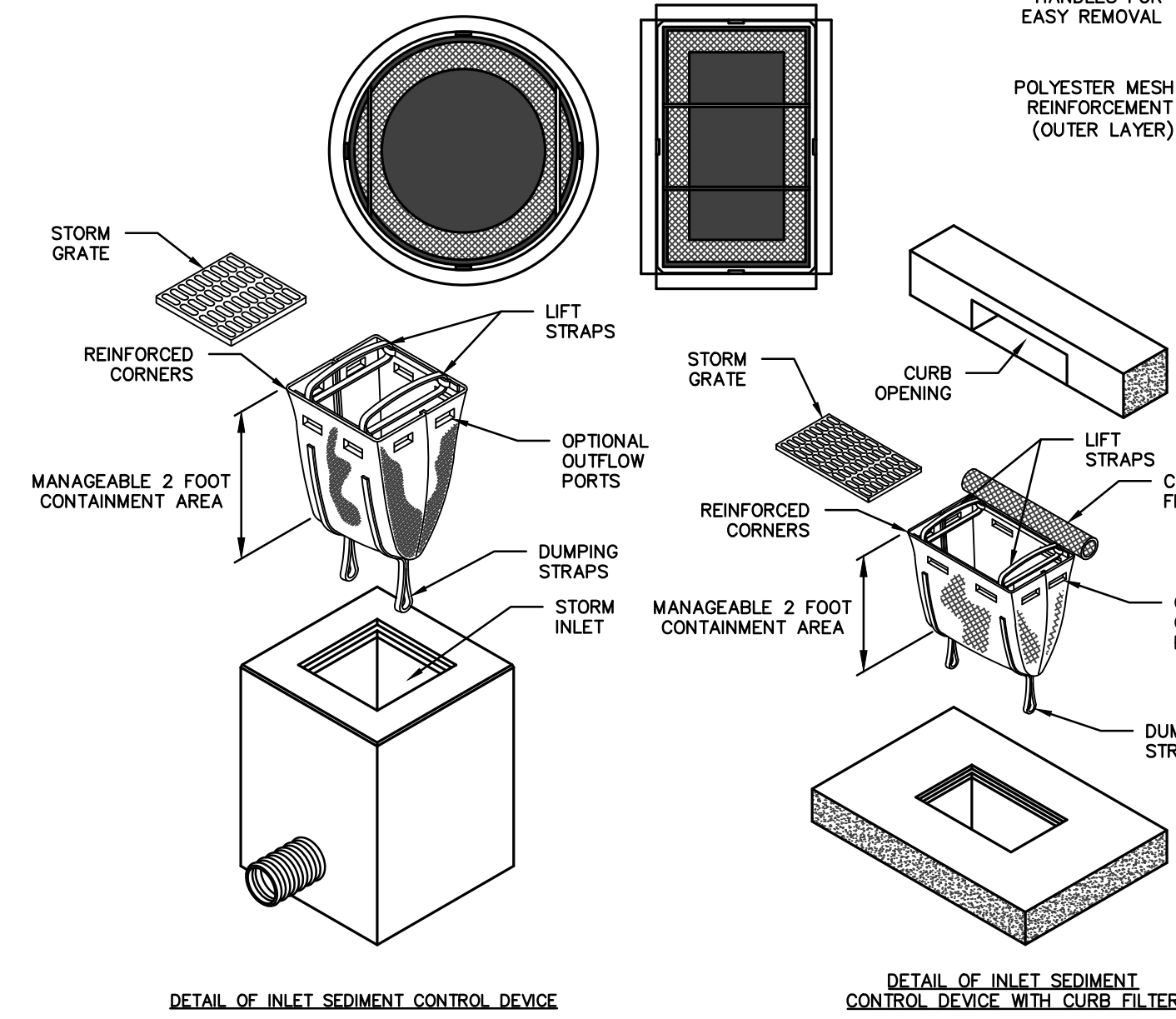
- NOTES**
- CHANNEL LININGS UTILIZE STAPLE PATTERN "C" WITH ADDITIONAL STAPLES ON SIDE SLOPES AT PROJECTED WATER LINE.

- 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.

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

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).

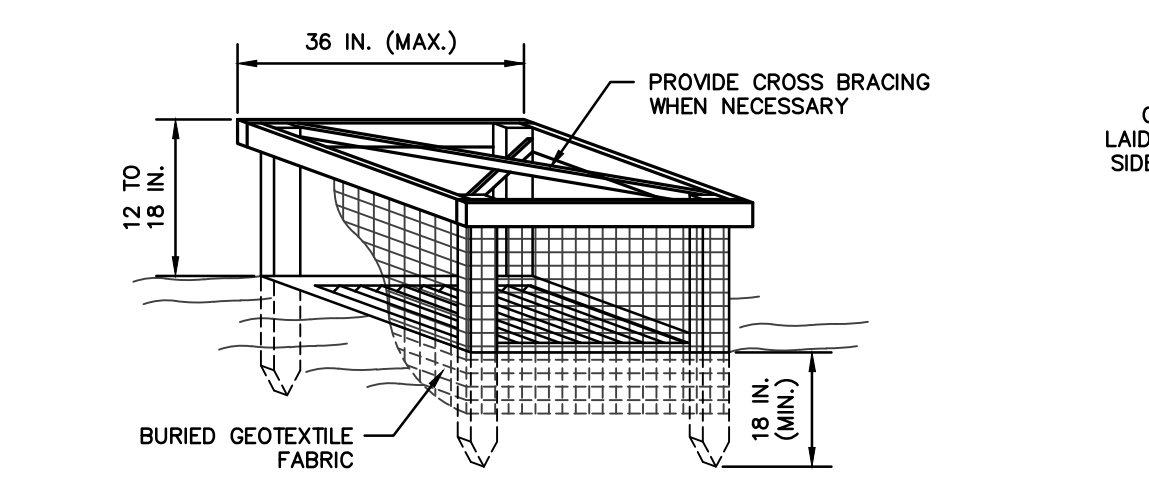
- CAPACITY**
- RUNOFF FROM A TWO-YEAR FREQUENCY, 24-HOUR STORM EVENT ENTERING A STORM DRAIN WITHOUT BYPASS FLOW.

- 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 18-FOOT HEAD OF WATER AND SEDIMENT WITHOUT COLLAPSING OR WITHSTANDING.)

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

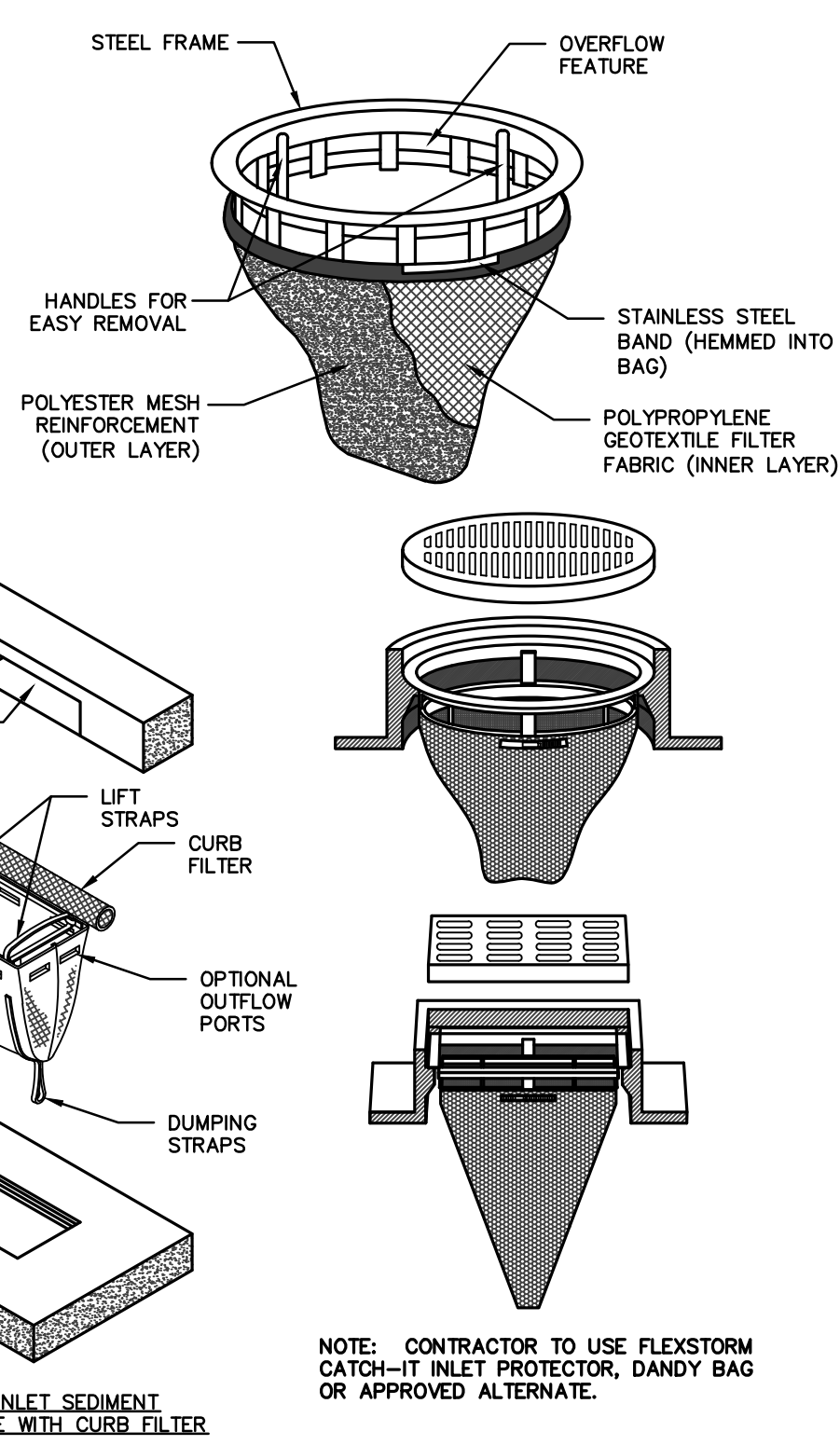
TABLE 2. GEOTEXTILE FABRIC SPECIFICATIONS FOR SILT FENCE (MINIMUM)

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	30 LBS. PER LINEAL INCH	50 LBS. PER LINEAL INCH
STANDARD STRENGTH EXTRA STRENGTH	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)

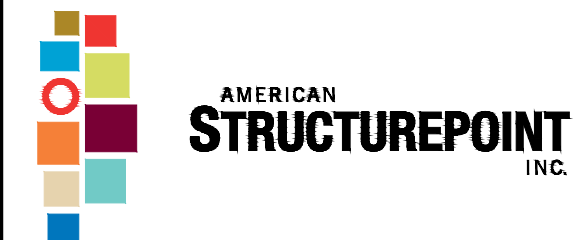


NOTE: CONTRACTOR TO USE FLEXSTORM CATCH-IT INLET PROTECTOR, DANDY BAG OR APPROVED ALTERNATE.

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

Barred Rock, Inc.
d/b/a Zaxby's
Circle City Rentals, LLC
d/b/a Aaron's

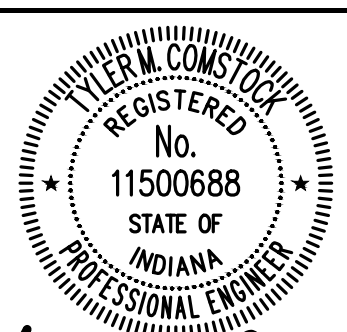
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Zaxby's

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J. M. Combs

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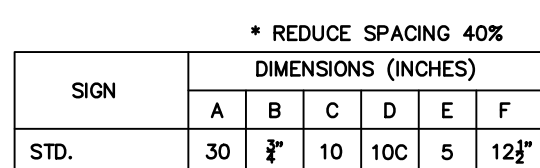
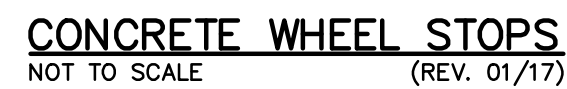
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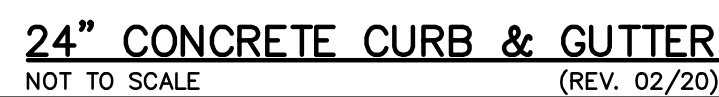
Project Number 2020.01229

EROSION CONTROL DETAILS

C521



NOTES:
MOUNTING HEIGHT - 7' ABOVE GRADE.
COLORS
LEGEND - WHITE (REFLECTIVE)
BACKGROUND - RED (REFLECTIVE)



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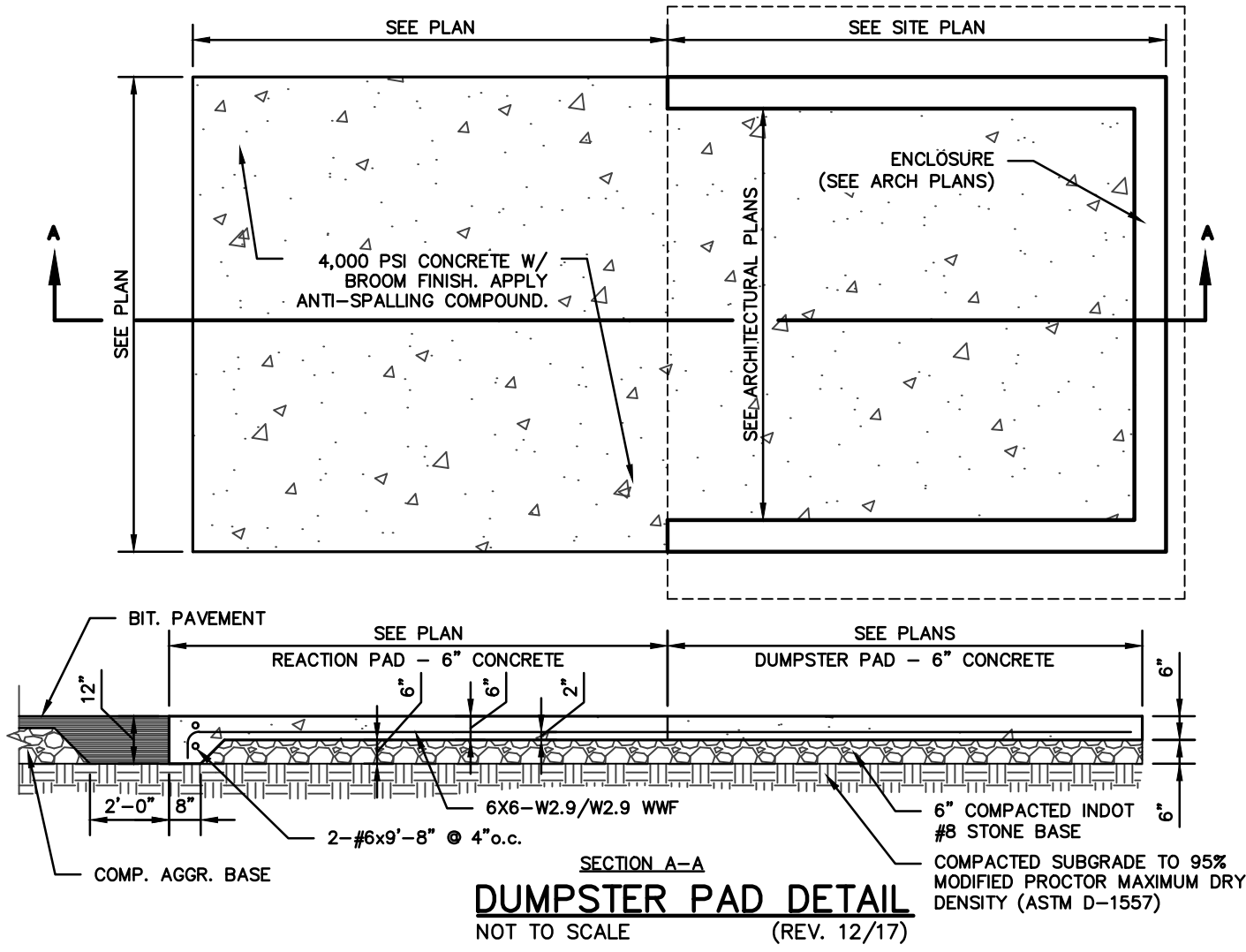
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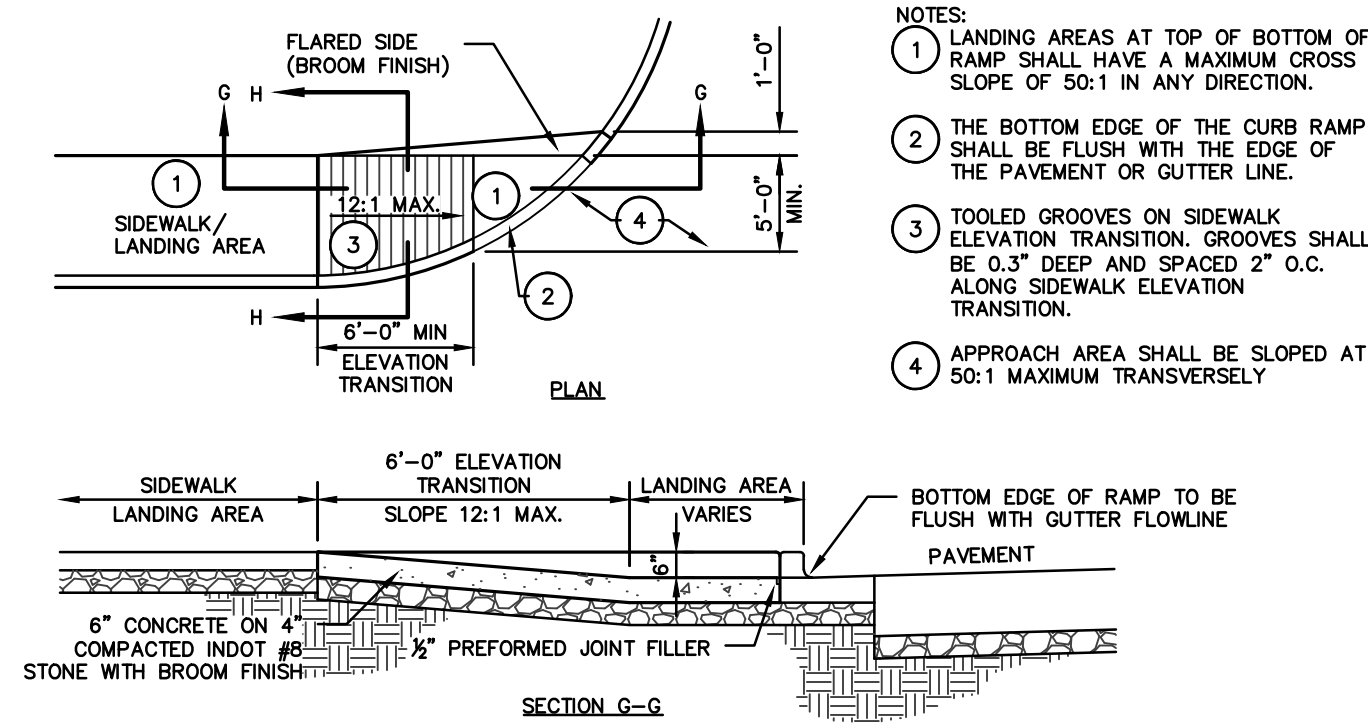
SITE DETAILS

C600

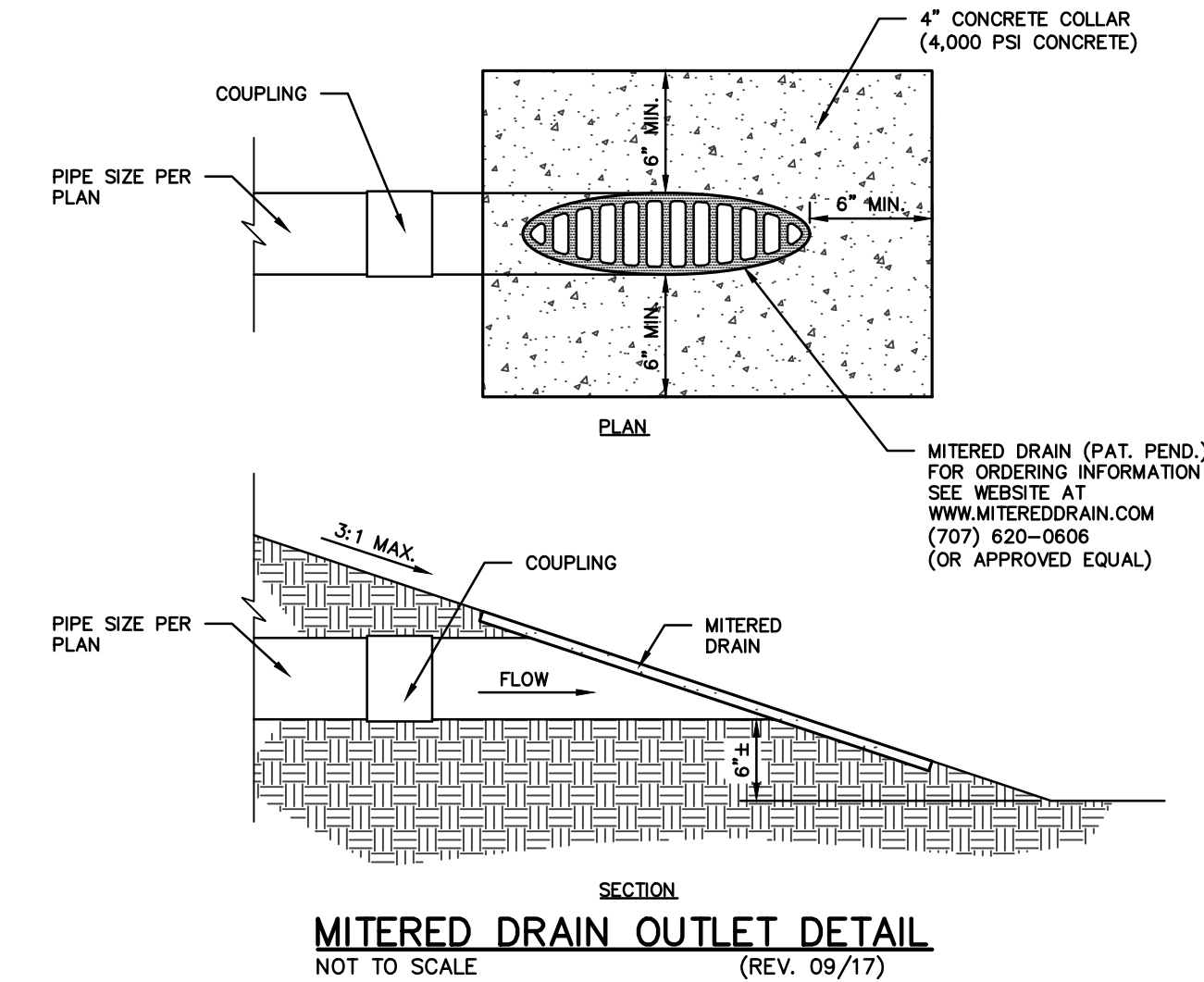
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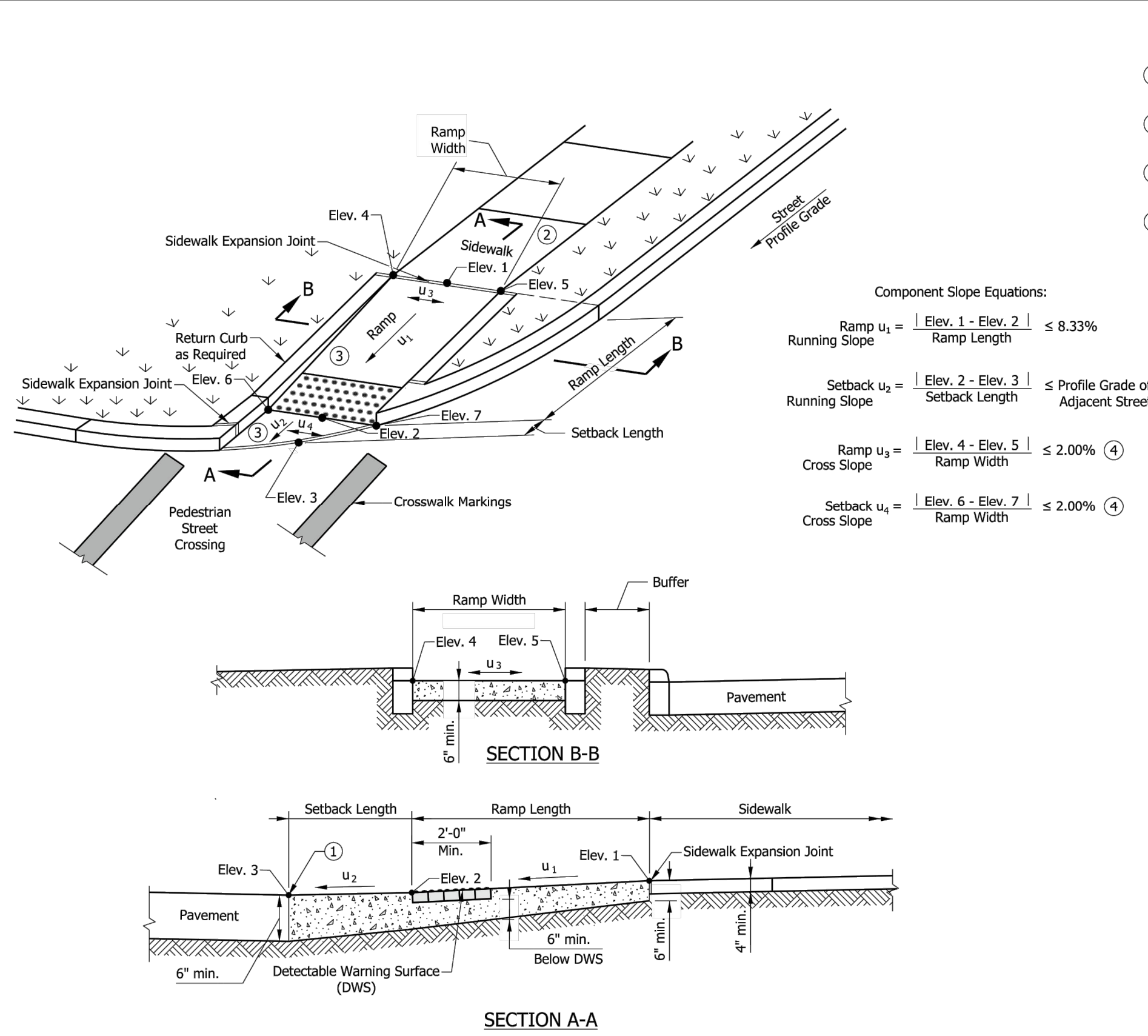
DUMPSTER PAD DETAIL
NOT TO SCALE (REV. 12/17)



ADA ACCESSIBLE RAMP, TYPE 'H'
NOT TO SCALE (REV. 12/17)



MITERED DRAIN OUTLET DETAIL
NOT TO SCALE (REV. 09/17)



NOTES:

- The bottom edge of the ramp or setback and top of curb shall be flush with the edge of adjacent pavement and gutter line.
- A turning space is not required at the top of the ramp for a one-way directional perpendicular curb ramp.
- Curb ramp surface shall be coarse broomed transverse to the running slope.
- See Standard Drawing E 604-SWCR-01 for cross slope exceptions.
- See Standard Drawing E 604-SWCR-12, -13, and -14 for Detectable Warning Surface placement, configuration, and details.
- See Standard Drawing E 604-CCS3-01 for sidewalk expansion joint details.

LEGEND:

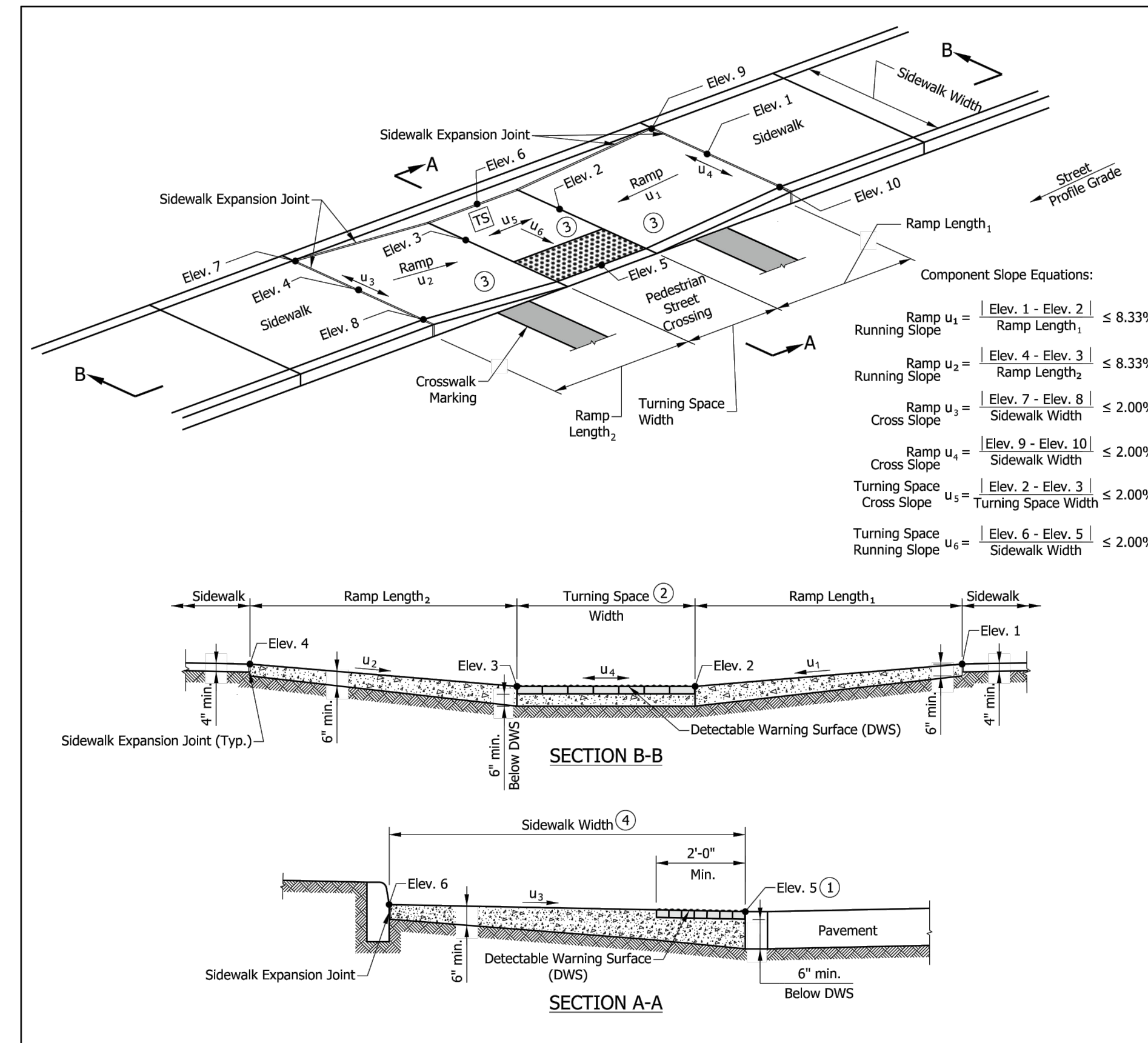
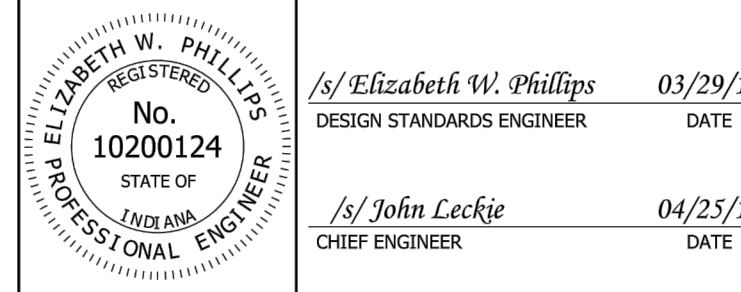
- Buffer or Other Non-Walkable Surface
- Ramp
- Detectable Warning Surface

INDIANA DEPARTMENT OF TRANSPORTATION

ONE-WAY DIRECTIONAL PERPENDICULAR CURB RAMP COMPONENT DETAILS

SEPTEMBER 2018

STANDARD DRAWING NO. E 604-SWCR-06



NOTES:

- The bottom edge of the turning space and top of curb shall be flush with the edge of adjacent pavement and gutter line.
- The turning space shall have a minimum clear dimension of 4 ft x 4 ft and a running slope of 2.00% maximum. Where the turning space is constrained at the back of the sidewalk, the minimum clear dimension shall be 4 ft x 5 ft, with the 5-ft dimension in the direction of the ramp running slope.
- Curb ramp surface shall be coarse broomed transverse to the running slope.
- Where there is no buffer between the sidewalk and curb, the preferred minimum sidewalk width is 6 ft. Where a buffer is placed between the sidewalk and curb, the preferred minimum sidewalk width is 5 ft. See Standard Drawing Series E 604-SWCR for sidewalk details.
- See Standard Drawing E 604-SWCR-01 for cross slope exceptions.
- See Standard Drawing E 604-SWCR-12, -13, and -14 for Detectable Warning Surface placement, configuration, and details.
- See Standard Drawing E 604-CCS3-01 for sidewalk expansion joint details.

LEGEND:

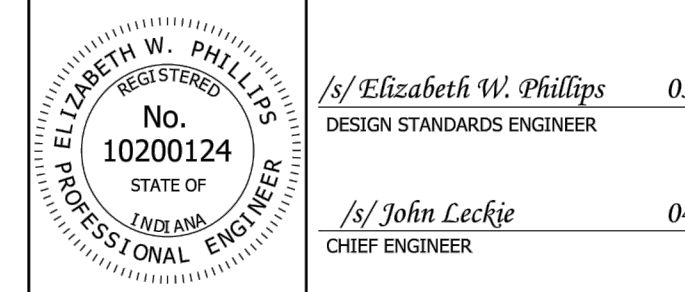
- Ramp
- Detectable Warning Surface
- Turning Space

INDIANA DEPARTMENT OF TRANSPORTATION

PARALLEL CURB RAMP COMPONENT DETAILS

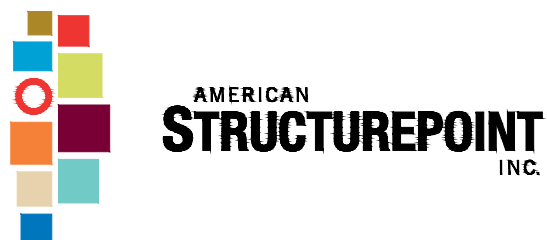
SEPTEMBER 2018

STANDARD DRAWING NO. E 604-SWCR-08



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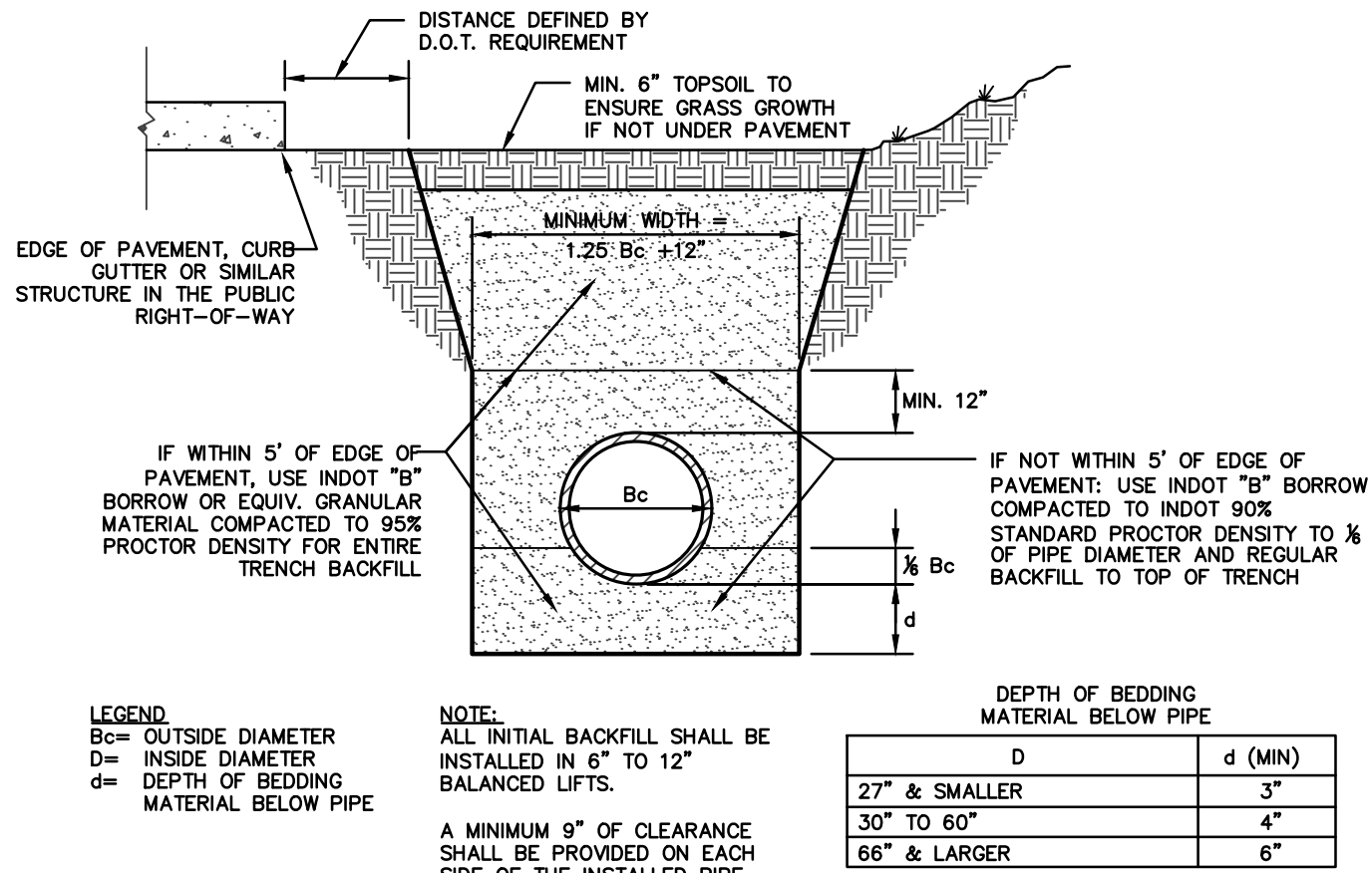
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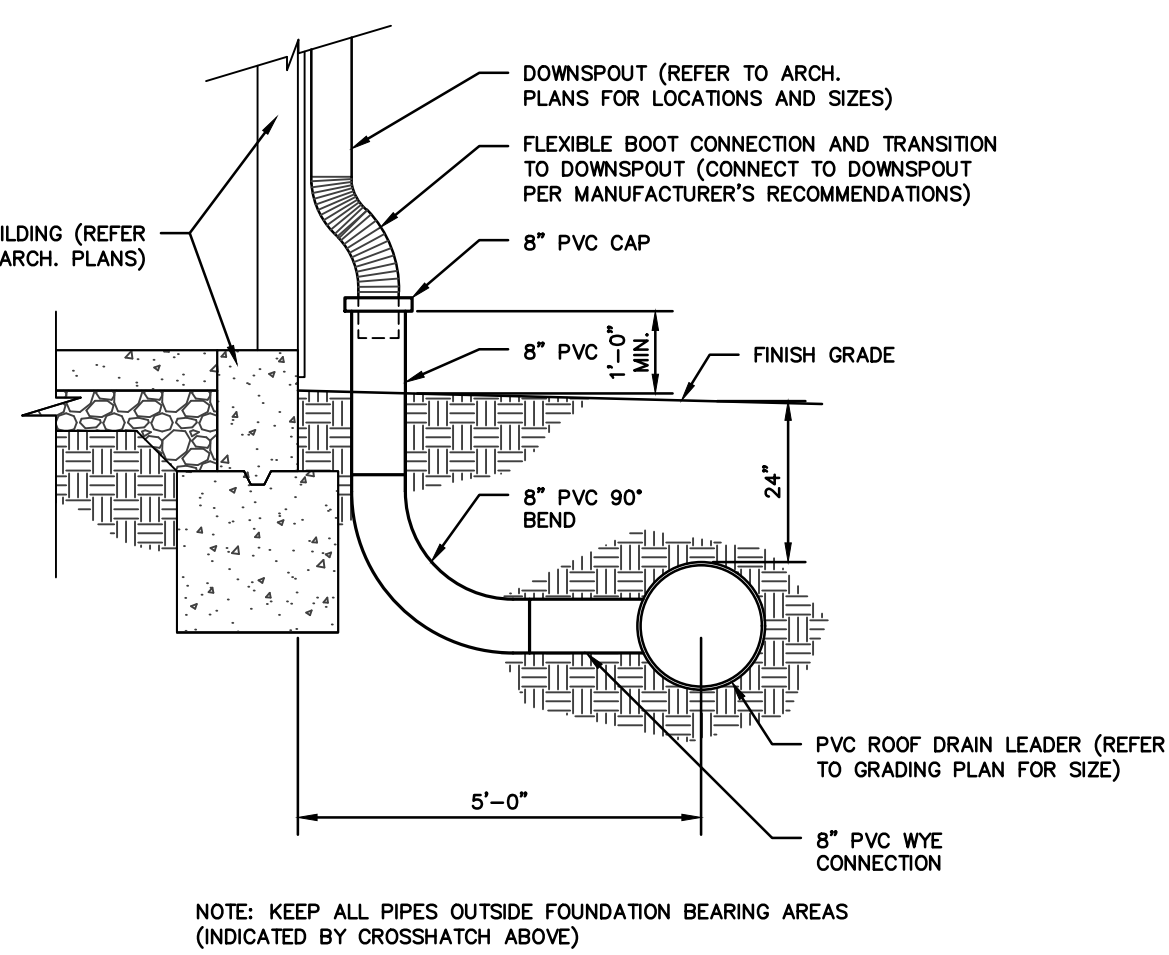
SITE DETAILS

C601

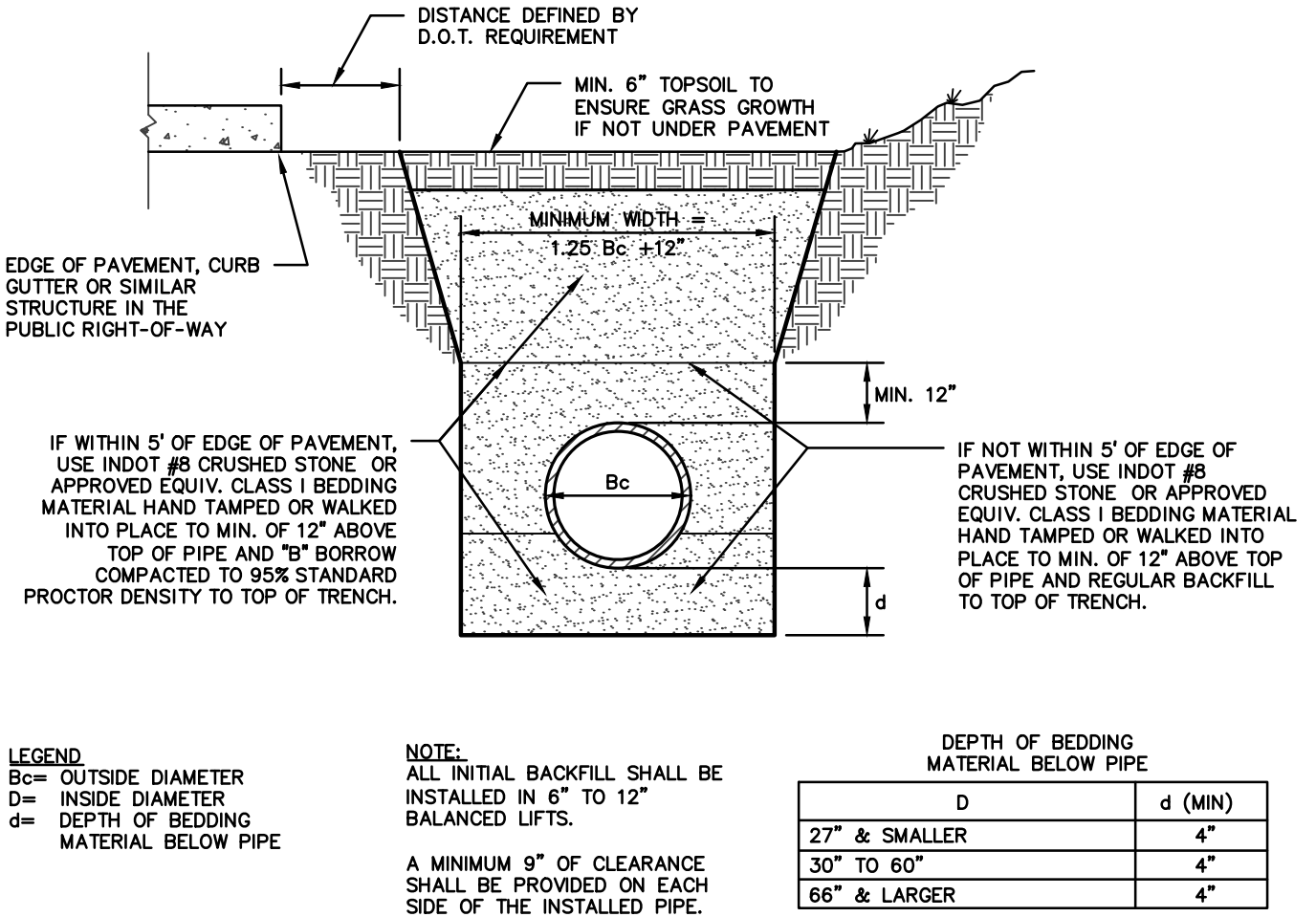
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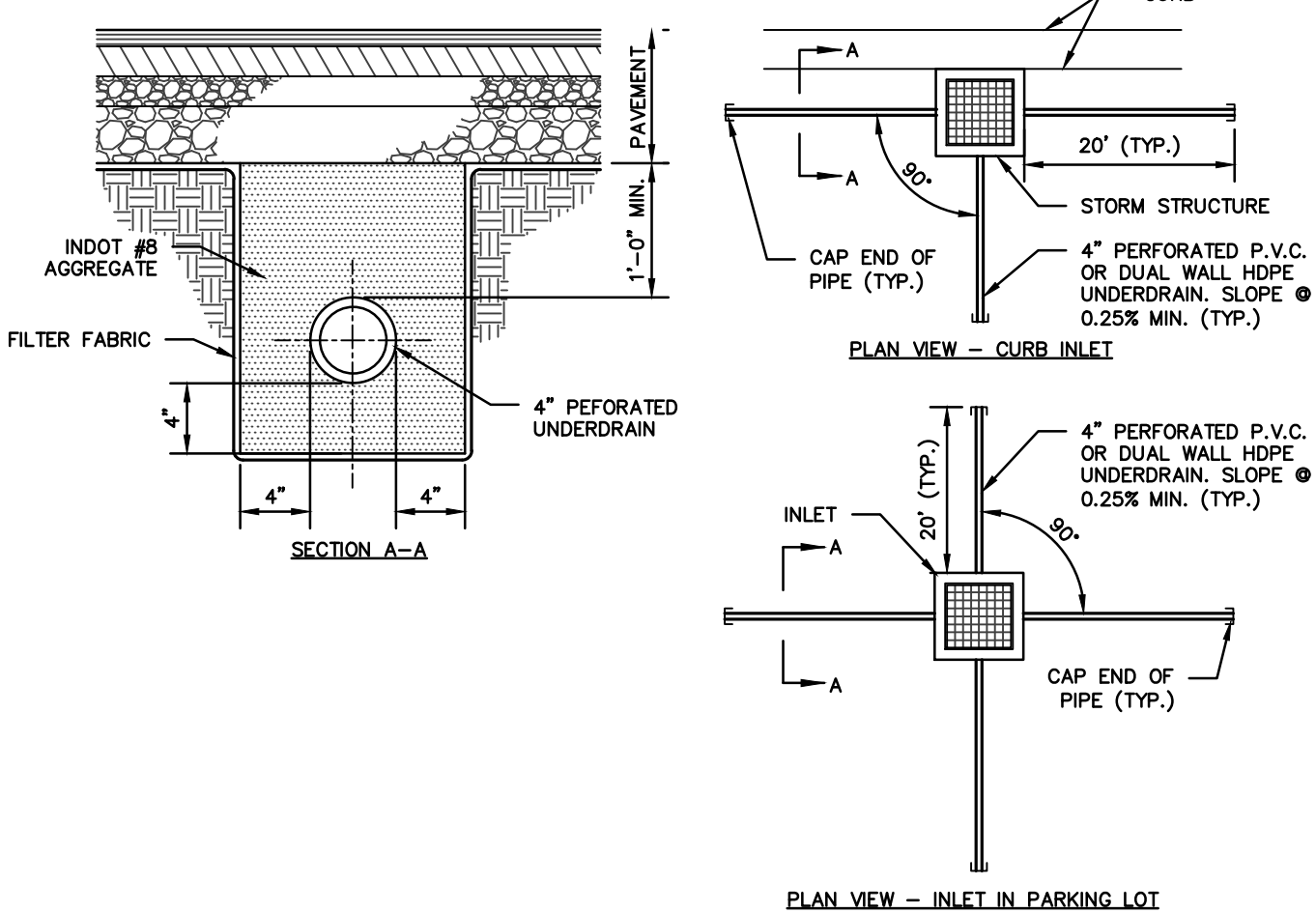
**REINFORCED CONCRETE PIPE
(RCP) BEDDING DETAIL**
NOT TO SCALE (REV. 12/17)



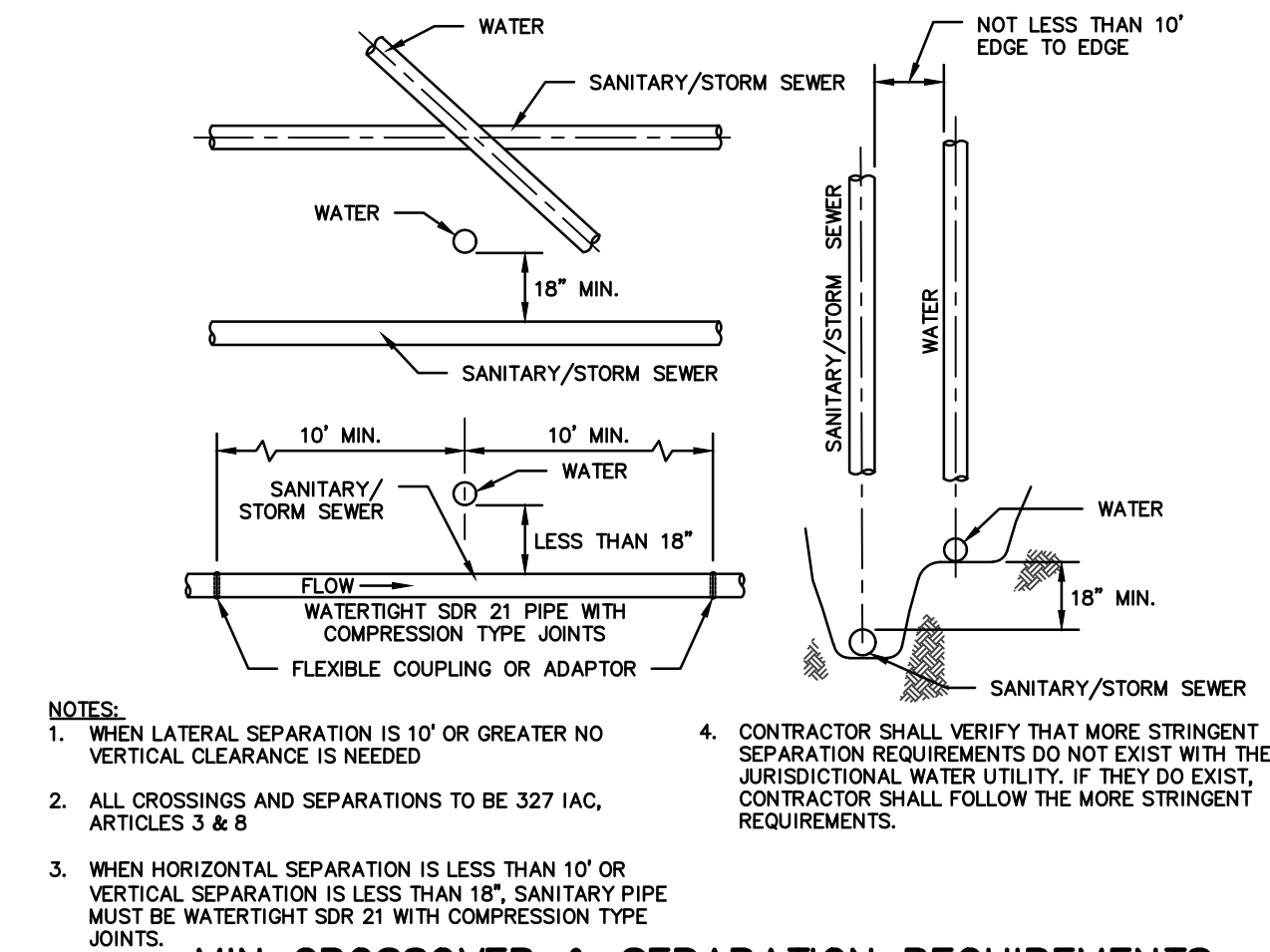
DOWNSPOUT BOOT CONNECTION DETAIL
NOT TO SCALE (REV. 06/17)



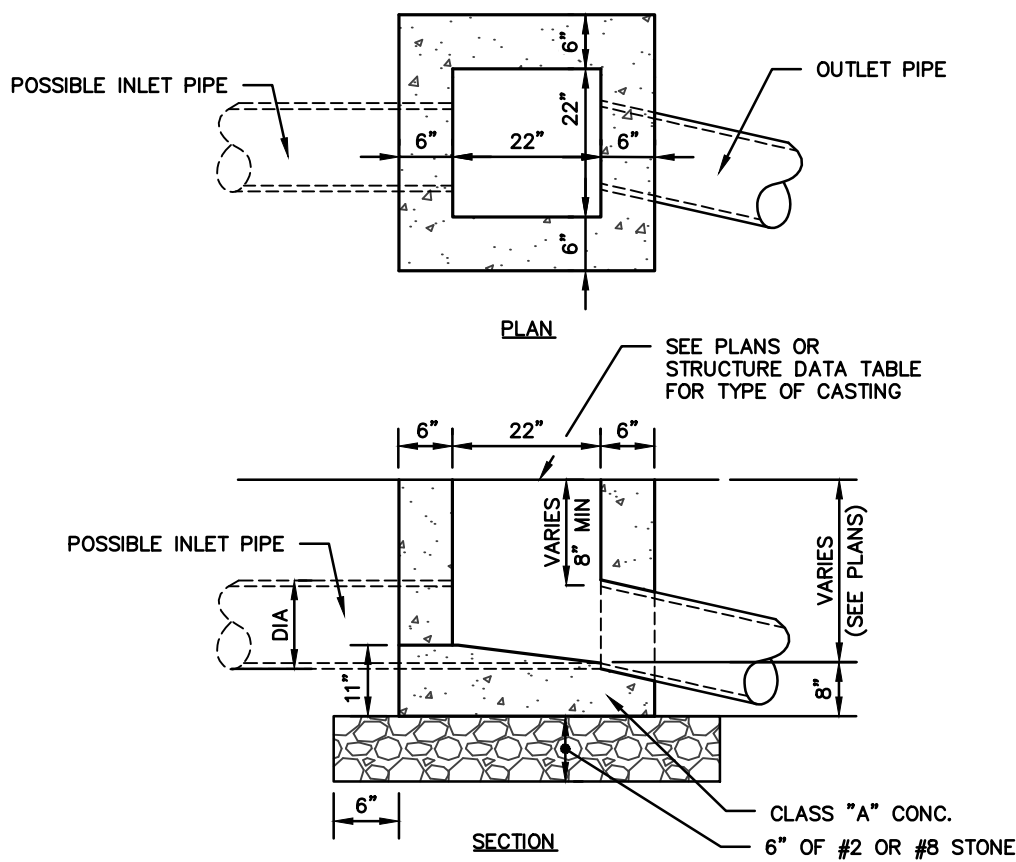
PLASTIC PIPE (PVC & HDPE) BEDDING DETAIL
NOT TO SCALE (REV. 12/17)



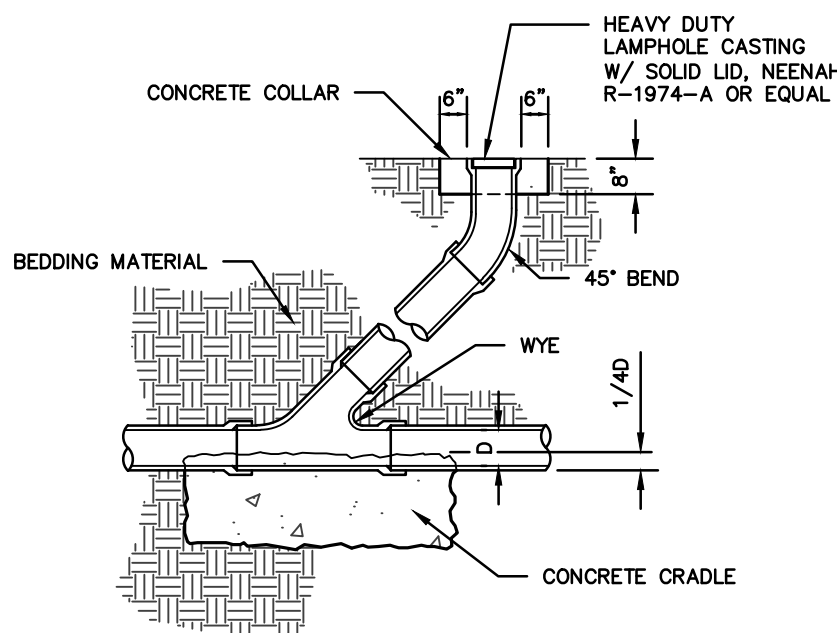
PAVEMENT UNDERDRAIN DETAIL
NOT TO SCALE (REV. 07/18)



**MIN CROSSOVER & SEPARATION REQUIREMENTS
FOR WATER & SANITARY/STORM SEWERS**
NOT TO SCALE (REV. 01/17)



INLET TYPE \"A\" DETAIL
NOT TO SCALE (REV. 06/18)



NOTE:
BEDDING MATERIAL TO BE IN ACCORDANCE WITH
PLASTIC PIPE (PVC AND HDPE) BEDDING DETAIL.

CLEANOUT DETAIL
NOT TO SCALE (REV. 01/17)

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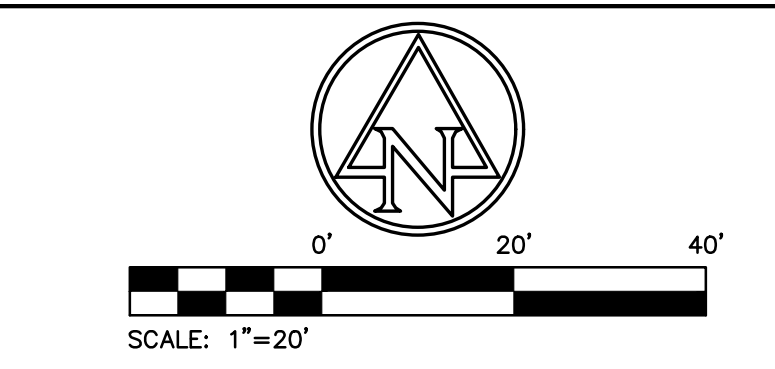
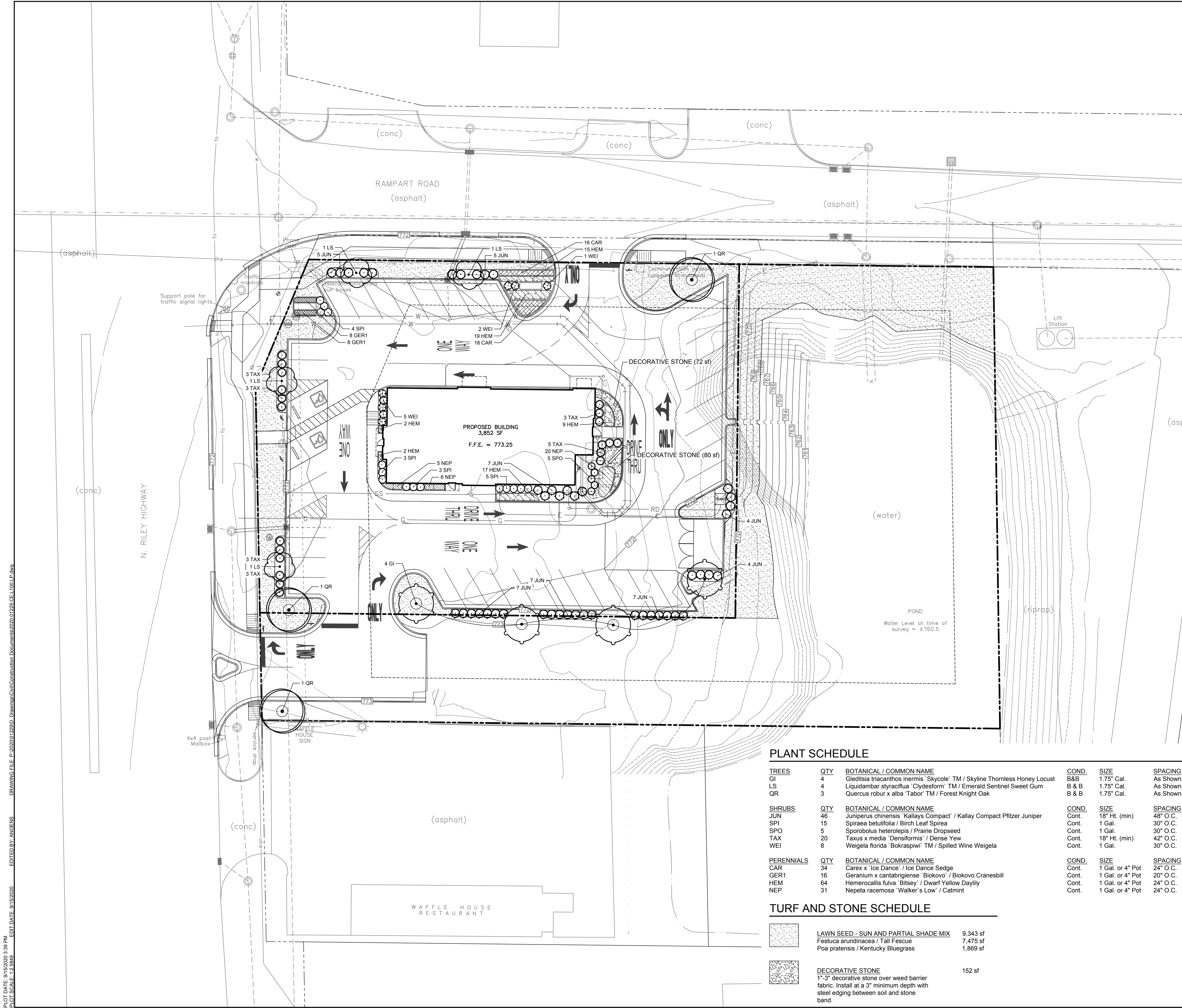
REVISION SCHEDULE

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Project Number 2020.01229

SITE DETAILS

C602



- GENERAL NOTES:**
- CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS IN THE FIELD PRIOR TO BEGINNING WORK. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES ASSOCIATED WITH WORK. UTILITIES SHALL BE REPAIRED TO SATISFACTION OF THE UTILITY OWNER AND/OR OPERATING AUTHORITY AT NO ADDITIONAL COST.
 - A MINIMUM OF 4" OF TOPSOIL (2" TOPSOIL, 2" MULCH AND SOIL CONDITIONER) SHALL BE PLACED ON ALL AREAS TO BE SEEDED, SODDED AND PLANTED. PLANTING SOIL MIX SHALL BE FREE FROM SUBSOIL VEGETATION, WEEDS OR ANY EXTRANEOUS OR DELETERIOUS MATERIALS LARGER THAN 1". REMOVE ANY UNSUITABLE AND EXCESS TOPSOIL AS DETERMINED BY SOILS ENGINEER. FROM THE SITE. FURNISH ANY ADDITIONAL TOPSOIL NEEDED AT NO ADDITIONAL COST. ADDED TOPSOIL SHALL BE INCORPORATED INTO EXISTING SOIL.
 - IN CASE OF DISCREPANCIES BETWEEN THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICTATE. IF IN QUESTION, CONTACT THE LANDSCAPE ARCHITECT.
 - ALL PLANTING BEDS SHALL HAVE A 3" THICK LAYER OF SHREDDED HARDWOOD BARK MULCH. NO UTILITY MULCH OR PROCESSED TREE TRIMMINGS WILL BE ALLOWED. ALL PLANTING BEDS SHALL HAVE PRE-EMERGENT HERBICIDE APPLIED AS PER MANUFACTURER'S RECOMMENDATION, AFTER INSTALLATION IS COMPLETE.
 - FINAL PLACEMENT OF PLANT MATERIALS, ETC. SHALL BE APPROVED BY LANDSCAPE ARCHITECT BEFORE PLANTING OPERATIONS ARE TO PROCEED. ALL TREE LOCATIONS SHALL BE MARKED WITH A WOODEN STAKE INDICATING VARIETY AND SIZE OF TREE.
 - NO SUBSTITUTIONS OF PLANT MATERIAL WILL BE ALLOWED. IF PLANTS ARE SHOWN TO BE UNAVAILABLE, THE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT PRIOR TO BID DATE IN WRITING. ALL PLANTS SHALL BE INSPECTED AND TAGGED WITH PROJECT IDENTIFICATION AT NURSERY OR CONTRACTOR'S OPERATION PRIOR TO MOVING TO JOB SITE. PLANTS MAY ALSO BE INSPECTED AND APPROVED OR REJECTED ON THE JOB SITE.
 - ALL PLANTS ARE TO MEET OR EXCEED AMERICAN STANDARDS FOR NURSERY STOCK, 2004 EDITION, AS SET FORTH BY AMERICAN ASSOCIATION OF NURSEYMEN.
 - PLANTS AND ALL OTHER MATERIALS TO BE STORED ON SITE WILL BE PLACED WHERE THEY WILL NOT CONFLICT WITH CONSTRUCTION AND AS DIRECTED BY OWNER.
 - ALL NEW LANDSCAPE PLANTINGS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FOLLOWING FINAL INSPECTION BY LANDSCAPE ARCHITECT. AT END OF THIS PERIOD, PLANT MATERIAL TERMED DEAD OR UNSATISFACTORY BY LANDSCAPE ARCHITECT SHALL BE REPLACED AT NO ADDITIONAL CHARGE BY THE LANDSCAPE CONTRACTOR.
 - ALL DISTURBED LAWN AREAS SHALL BE HYDRO-SEEDED OR SODDED AS SHOWN PER THE LANDSCAPE AND EROSION CONTROL PLANS.
 - LAWN AND SOD AREAS ARE TO BE GRADED UNIFORMLY WITHOUT ANY UNDULATIONS OR IRREGULARITIES IN THE SURFACE PRIOR TO ANY HYDRO-SEED OR SOD WORK.
 - ALL LAWN IS TO BE A BLEND PER THE PLANT SCHEDULE. HYDRO-SEED AREAS ARE TO HAVE 0% NOXIOUS WEED AND FREE OF DISEASE.
 - PROTECT LAWN SEEDED AREAS WITH STRAW MULCH. SPREAD MULCH UNIFORMLY AT A MINIMUM RATE OF 2 TONS PER ACRE TO FORM A CONTINUOUS BLANKET 1 1/2 INCHES IN LOOSE THICKNESS OVER SEEDED AREAS.

LANDSCAPE LEGEND

	DECIDUOUS SHADE TREE
	ORNAMENTAL TREE
	SHRUBS + GRASSES
	SPADE EDGE SEE DETAIL ON SHEET L110

ORDINANCE NOTES:

Foundation Planting
Shrubs Provided: 36 shrubs

Yard Planting
Lots over 20,000 square feet shall plant two (2) canopy trees, plus one (1) canopy tree for every additional 25,000 square feet of lot size above 40,000 square feet.
Lot Size: +/- 33,980 SF
Canopy Trees Required: 2 Trees
Canopy Trees Provided: 7 Trees

Parking Lot Perimeter
Option 1 - Trees & Shrubs: A minimum of one (1) tree shall be provided for every 600 square feet of landscaped area, with a maximum of one (1) tree for every 400 square feet. In addition, one (1) shrub shall be provided for every 100 square feet of landscaped area.
Total Parking Landscape Area: 2,061.7 SF
Trees Required: 3.5 Trees
Shrubs Required: 20.8 Shrubs
Trees Provided: 4 Trees
Shrubs Provided: 22 Shrubs

PLANT SCHEDULE			
TREES	QTY	BOTANICAL / COMMON NAME	COND.
GI	4	Gleditsia triacanthos inermis 'Skycole' TM / Skyline Thornless Honey Locust	1.75" Cal.
LS	4	Liquidambar styraciflua 'Clydesform' TM / Emerald Sentinel Sweet Gum	B & B
QR	3	Quercus robur x alba 'Tabor' TM / Forest Knight Oak	1.75" Cal.
SHRUBS	QTY	BOTANICAL / COMMON NAME	COND.
JUN	46	Juniperus chinensis 'Kallays Compact' / Kallay Compact Pfritzer Juniper	18" Ht. (min)
SPI	15	Spiraea betulifolia / Birch Leaf Spirea	Cont.
SPO	5	Sporobolus heterolepis / Prairie Dropseed	Cont.
TAX	20	Taxus x media 'Densiformis' / Dense Yew	Cont.
WEI	8	Weigela florida 'Bokraspiwi' TM / Spilled Wine Weigela	Cont.
PERENNIALS	QTY	BOTANICAL / COMMON NAME	COND.
CAR	34	Carex x 'Ice Dance' / Ice Dance Sedge	1 Gal. or 4" Pot
GER1	16	Geranium x cantabrigiense 'Biokovo' / Biokovo Cranesbill	Cont.
HEM	64	Hemerocallis fulva 'Bitsey' / Dwarf Yellow Daylily	Cont.
NEP	31	Nepeta racemosa 'Walker's Low' / Catmint	Cont.

TURF AND STONE SCHEDULE		
	LAWN SEED - SUN AND PARTIAL SHADE MIX Festuca arundinacea / Tall Fescue Poa pratensis / Kentucky Bluegrass	9,343 sf 7,475 sf 1,869 sf
	DECORATIVE STONE 1"-3" decorative stone over weed barrier fabric. Install at a 3" minimum depth with steel edging between soil and stone band.	152 sf

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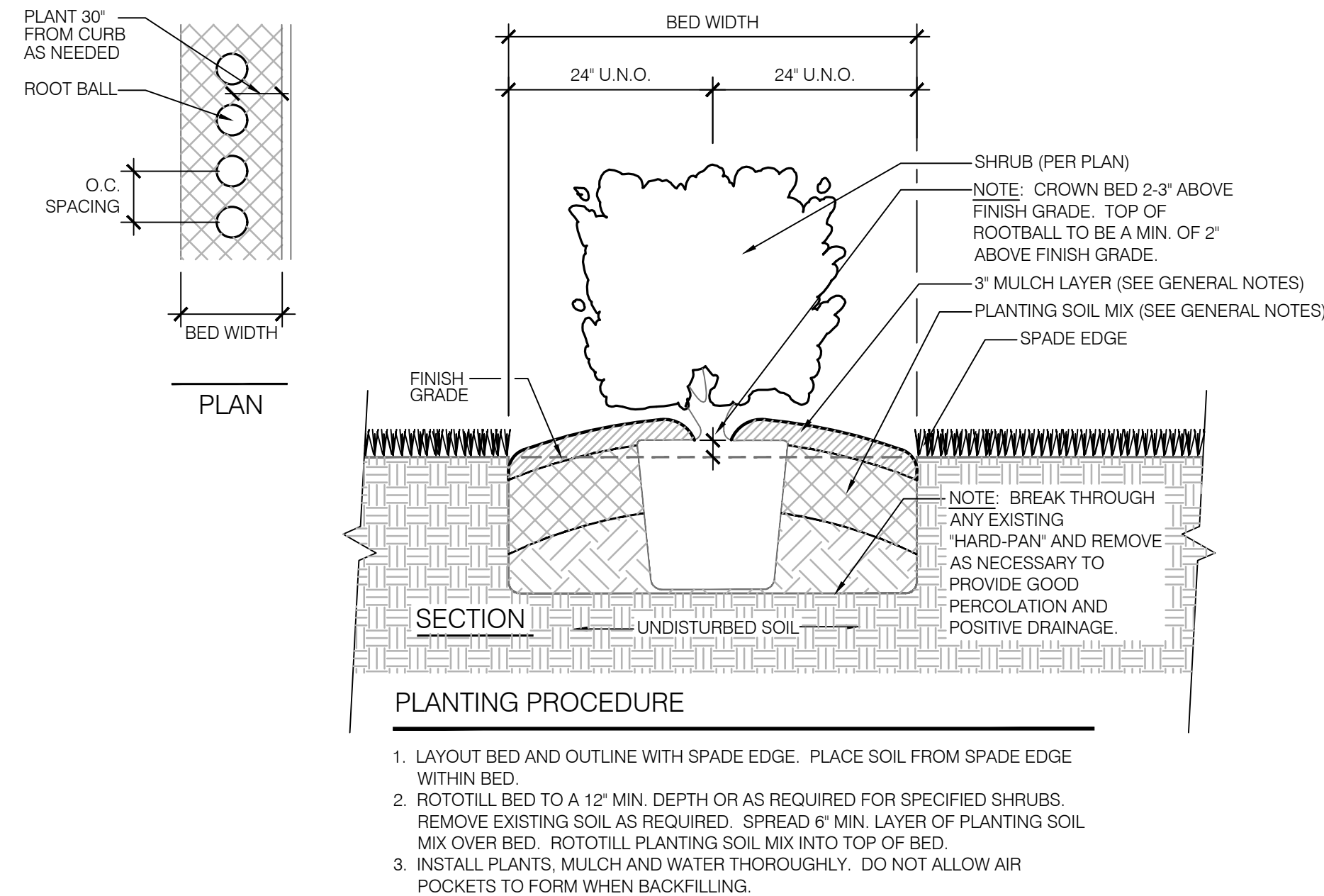
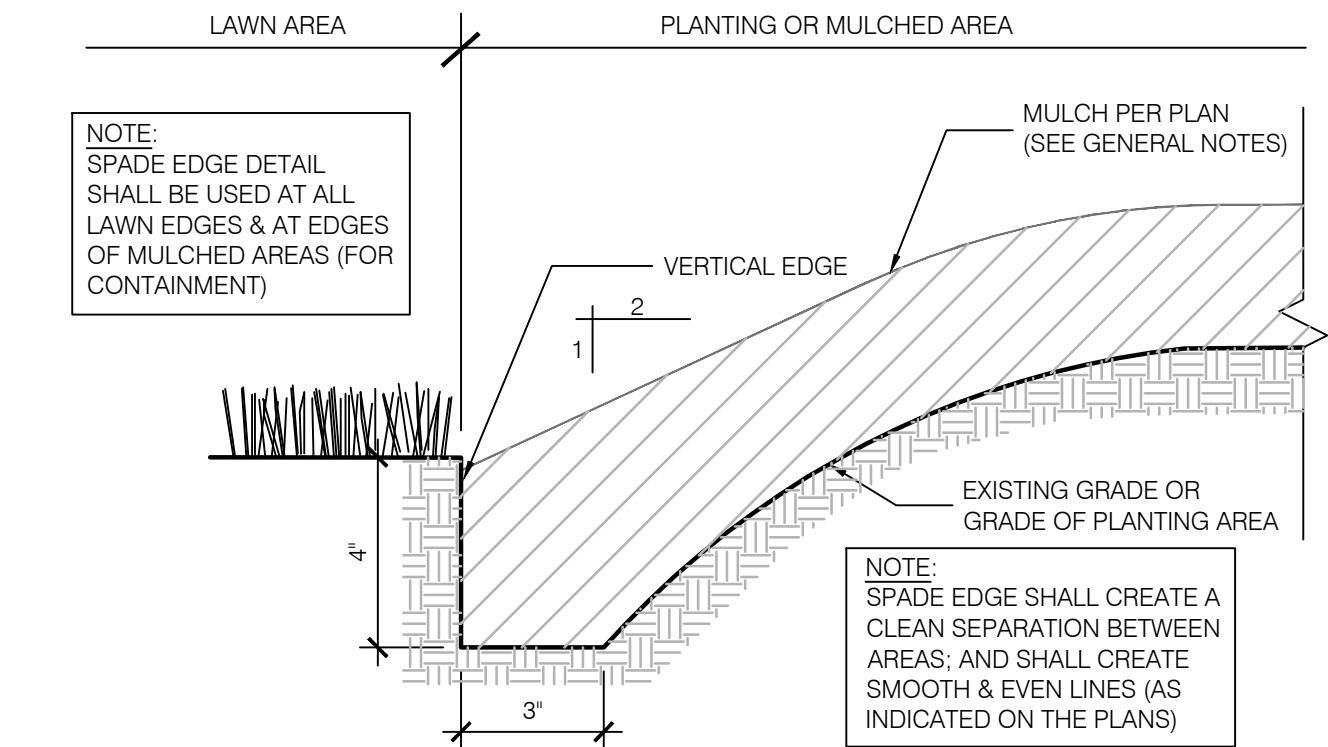
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LANDSCAPE PLAN

L100

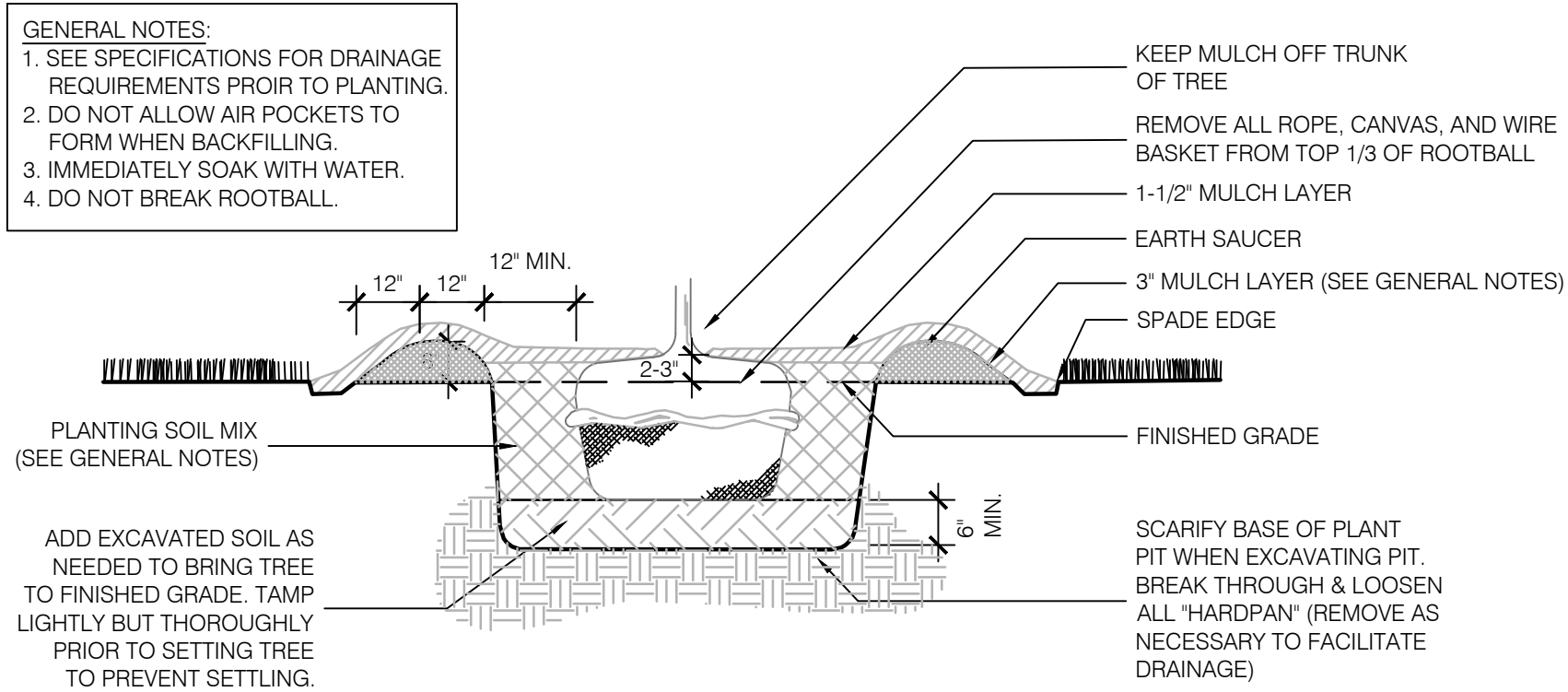
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EDIT DATE: 8/10/2020
EDITED BY: TCOMSTOCK

03 SPADE EDGE DETAIL



- PLANTING PROCEDURE**
1. LAYOUT BED AND OUTLINE WITH SPADE EDGE. PLACE SOIL FROM SPADE EDGE WITHIN BED.
 2. ROTOTILL BED TO A 12" MIN. DEPTH OR AS REQUIRED FOR SPECIFIED SHRUBS. REMOVE EXISTING SOIL AS REQUIRED. SPREAD 6" MIN. LAYER OF PLANTING SOIL MIX OVER BED. ROTOTILL PLANTING SOIL MIX INTO TOP OF BED.
 3. INSTALL PLANTS, MULCH AND WATER THOROUGHLY. DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING.

02 SHRUB PLANTING DETAIL



- PLANTING PROCEDURE**
1. EXCAVATE ROOTBALL PIT
 2. ADD EXCAVATED SOIL & TAMP. SET TREE SUCH THAT TOP OF ROOTBALL IS 2-3" HIGHER THAN FINISHED GRADE.
 3. BACKFILL WITH SOIL MIX & "WATER IN"
 4. COMPLETE BACKFILLING, CONSTRUCT SAUCER. SPADE EDGE & ADD MULCH
 5. STAKE & GUY SECURELY (AS REQUIRED)

01 TREE PLANTING DETAIL

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LANDSCAPE
DETAILS

L110

EXTERIOR FINISH SCHEDULE

ALL MATERIALS & INSTALLATION SHALL CONFORM TO APPLICABLE ASTM STANDARDS UNLESS GOVERNING AUTHORITIES HAVE DIFFERENT REQUIREMENTS.

STANDARD BRICK UNIT 3 5/8" x 2 1/4" x 7 5/8" RUNNING BOND

- 1 COLOR: BRICK - COMMONWEALTH (GENERAL SHALE)
APPROVED ALTERNATE - M/S CHEROKEE NATCHEZ (CHEROKEE BRICK)
APPROVED ALTERNATE - OLDE COLUMBIA (BORAL BRICK)
MORTAR - "ANTIQUÉ BUFF" (COOSA)
- 3/8" THICK MORTAR JOINTS. ASTM C-270, TYPE N.
- 15# ROOFING FELT OVER ALL SUBSTRATES OR SEALED DENS GLASS GOLD SHEATHING
GROUT VOID SOLID @ FENCE AND BELOW F.F. PROVIDE VAPOR BARRIER AS INDICATED.
- CONTINUOUS, THROUGH WALL FLASHING, EPDM (BY W.R. GRACE) OR EQUAL, AT
BOTTOM OF WALLS & ABOVE OPENINGS. CUT FLASHING FLUSH WITH EXT. FACE.
PROVIDE CELL VENT TYPE WEEPS, ABOVE FLASHING @ 32" O.C. MAX.
- HOHMANN & BARNARD, INC. HORIZ REINF. ON CMU FENCE
HOHMANN & BARNARD, INC., DW-10 HS TRIANGULAR MTL. WALL TIES (OR EQUAL)
@ 16" O.C. VERT. & AT HORIZ. STUD SPACING, 14 GA. SEE SECTIONS & SPECS.
ATTACH TO STUDS WITH (2) 10 - 16 x 1-1/2" SCREWS.
- 2F = FIELD COLOR: PAINT SHERWIN WILLIAMS "ROYCROFT COPPER RED"/SW 2839 (SATIN
FINISH)
- HARDIE PLANK: EMBOSSED GRAIN FINISH LAP SIDING WITH 6" EXPOSURE, PAINT FIELD
COLOR
HARDIE PANEL VERTICAL SIDING, BOARD & BATTEN @ 12" O.C., PAINT PANEL & BATTENS
PAINT FIELD COLOR
- 2A = ACCENT COLOR: HARDIE CORNERS, FRIEZE & TRIM - SHERWIN WILLIAMS "BALANCED
BEIGE"/SW 7037 (SATIN FINISH)
- HARDIE TRIM BOARDS, CORNICE, FRIEZE & TRIM (SMOOTH FINISH)-PAINT SHERWIN
WILLIAMS "BALANCED BEIGE"/SW 7037 (SATIN FINISH)
- 3 FASCIA, RAFTERS, PURLINS AND BRACKETS- PAINT SHERWIN WILLIAMS "BALANCED BEIGE"
/SW 7037 (SATIN FINISH)
- 4 PREFINISHED, METAL COPING OR GRAVEL STOP & ROOFING
COLOR: COPINGS: FULL 24 GA GALVANIZED/GALVALUME METAL COPING ONLY
DOWNSPOUTS SHOULD BE GALVANIZED/GALVALUME
ROOFING @ REAR AWNING: GALVANIZED / GALVALUME
MATERIAL SHALL BE 24 GAUGE, HOT DIPPED GALVANIZED STEEL OR
0.032" THICK ALUM. FINISH SHALL BE KYNAR 500 FLUOROCARBON COATING.
ACCEPTABLE MANUFACTURES ARE AS FOLLOWS:
- A. BERRIDGE MANUF. CO.,HOUSTON, TX.
B. PAC-CLAD
C. MBCL
D. MCELROY METAL CO., PEACHTREE CITY, GA.
E. APPROVED EQUALS WILL BE ACCEPTED

PROVIDE ALL RELATED ACCESSORIES: FLASHING, END CLOSURES, GUTTERS,
DOWNSPOUTS, ETC. IN MATCHING COLOR. INSTALL ALL MATERIALS PER MANUF.'S
RECOMMENDATIONS.

A MANUFACTURER'S WARRANTY AGAINST DISCOLORATION & WEATHER-TIGHTNESS
WILL BE REQUIRED.

NOT ALL ROOF PENETRATIONS & ACCESSORIES ARE SHOWN ON THIS DRAWING.
IT IS THE RESPONSIBILITY OF THE G.C. TO INSTALL ITEMS INDICATED ELSEWHERE.

- 5 STOREFRONT: WINDOWS & ENTRANCE DOORS (BRITE WHITE - ORSF81275)

ACCEPTABLE MANUFACTURER: KAWNEER, REFER TO SPECIFICATIONS
ALL GLAZING SHALL BE IN ACCORDANCE W/ THE FOLLOWING VALUES:

GLAZING - 1" INSULATED LOW-E COATED ON #2 SURFACES						
TYPE	LOCATION	TYPE & THICKNESS	U FACTOR	SHGC	VLT	VLR
LOW-E COATING	EXTERIOR SIDE	1/4" TEMPERED	0.40	0.30	60	16
LOW-E COATING	INTERIOR SIDE	1/4" TEMPERED				

CONTACT PERSON @ QUALITY GLASS: JOHNNY DOSTER @ 706-548-4481

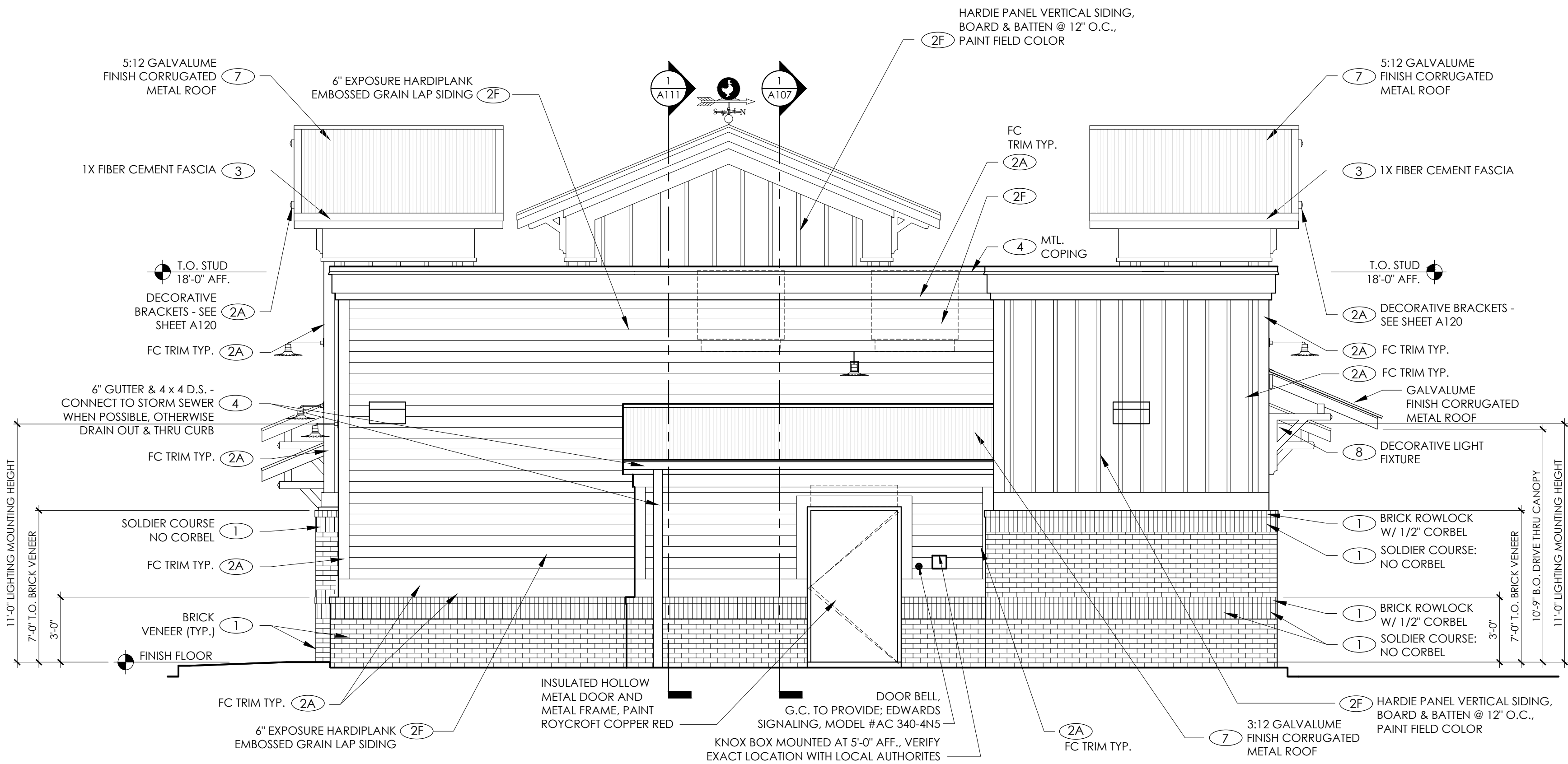
- 6 SELF-CLOSING & TEMPERED GLASS
DRIVE-THRU WINDOW: ROUGH OPENING = 6'-0" WIDE x 5'-8" HIGH
QUICKSERV MODEL SC-4040 SELF CLOSING HORIZ. SLIDER WINDOW
FIT INTO A "STOREFRONT" FRAME, MATCH STOREFRONT IN COLOR & GLAZING.

QUICKSERV-DIVISION OF MCE SYSTEMS CORP.
P.O. BOX 40466, HOUSTON, TX 77240-0466
P. 800-388-8307 F. 713-462-1936
STOREFRONT & SLIDER ALSO BY:
QUALITY GLASS P. 706-548-4481

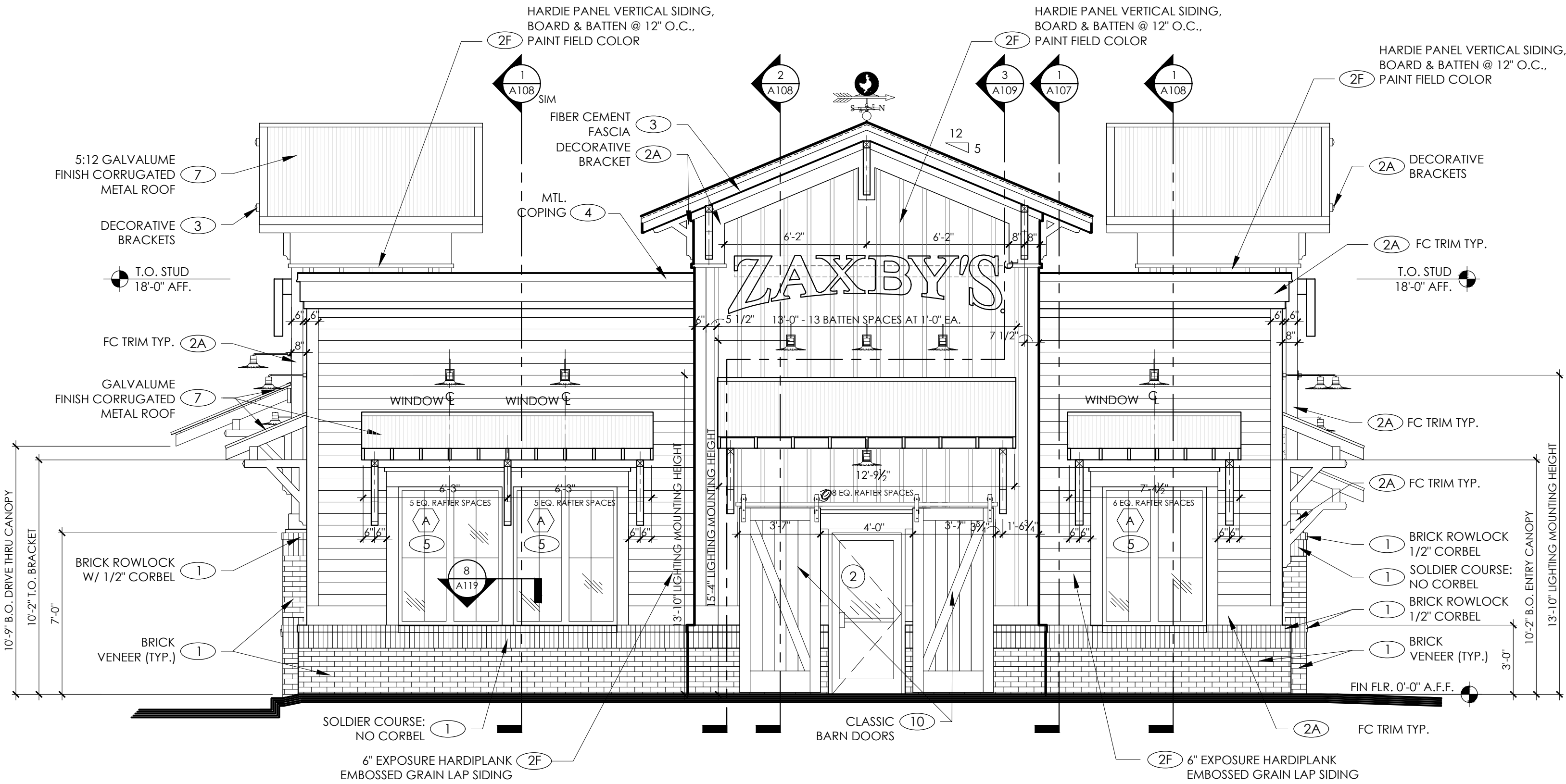
G.C. AND STOREFRONT PROVIDER SHALL BE RESPONSIBLE FOR COORDINATION
WITH THE OWNER REGARDING THE DIRECTION OF THE SLIDING WINDOW PRIOR
TO ORDERING OR INSTALLING ANY MATERIALS.

- 7 GALVALUME 22 GA. CORRUGATED FINISH METAL ROOF (MBCI PBC OR EQUIV.)
- 8 GALVANIZED METAL FINISH GOOSENECK FIXTURES ARE TO BE INSTALLED BY THE G.C.
- ALL SPECIFIED MATERIALS MUST BE INSTALLED PER MANUFACTURER'S
REQUIREMENTS. ANY DISCREPANCIES OR CONFLICTS BETWEEN THE
DRAWINGS AND THE MANUFACTURER'S REQUIREMENTS SHOULD BE
IDENTIFIED BY THE CONTRACTOR PRIOR TO INSTALLATION AND
DURING THE BID PHASE TO AVOID CHANGE ORDERS.
- 9 INTERIOR LADDER, PAINT BLACK
- 10 BARN DOORS, PAINT 2F AND TRIM COLOR 2A. HARDWARE TO BE POWDER COATED
BLACK. INSTALL PAINTED 6x6 FOR MOUNTING OF THE TRACK.

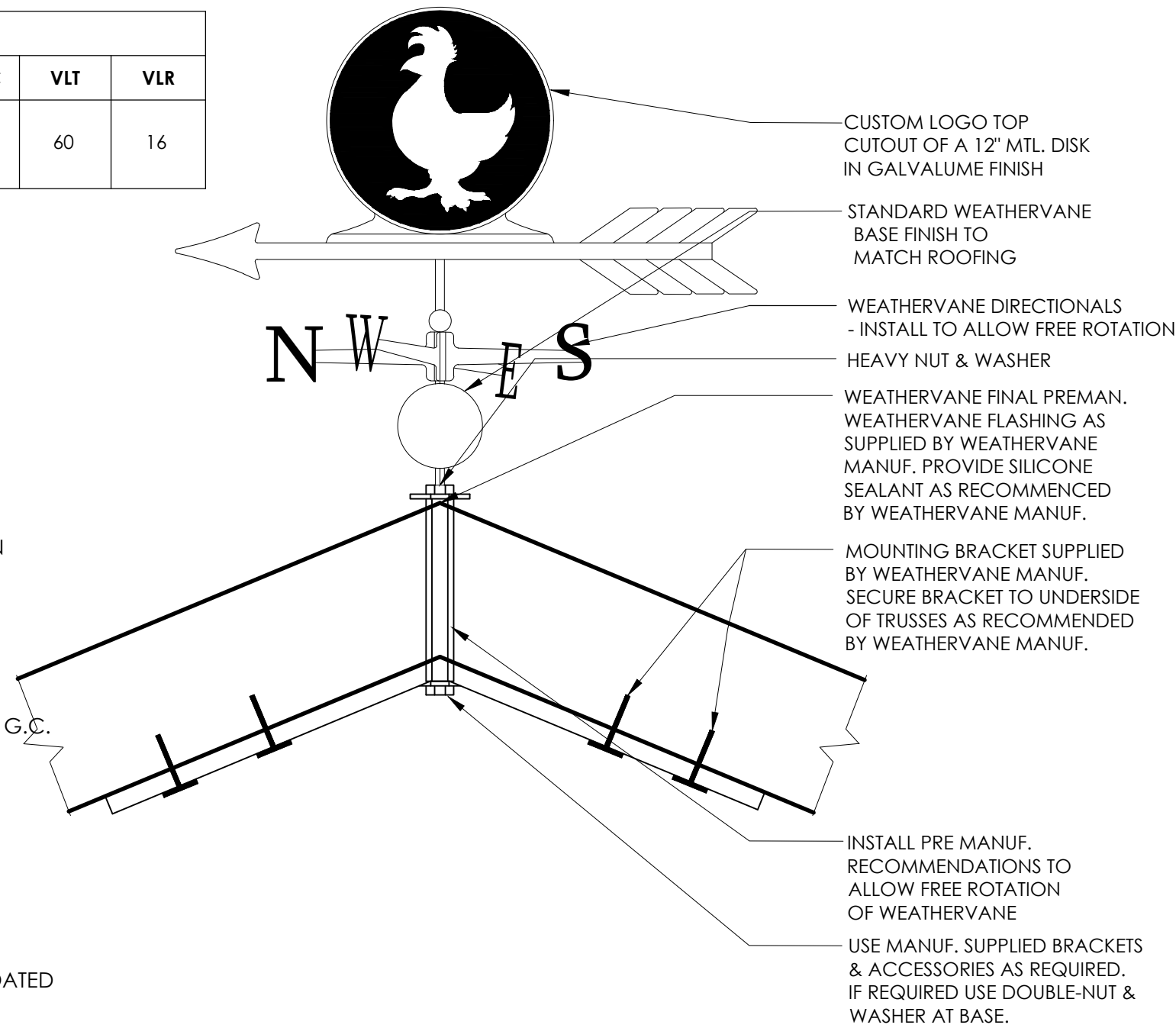
- WINDOW, SEE WINDOW ELEVATIONS
- DOOR, SEE DOOR SCHEDULE



2 REAR ELEVATION
A105 1/4" = 1'-0"



1 FRONT ELEVATION
A105 1/4" = 1'-0"



3 WEATHERVANE DETAIL
A105 1 1/2" = 1'-0"

ARCHITECT OF RECORD:

THOMAS E. MORGAN, JR.
ARCHITECT

423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540



MRP
DESIGN GROUP

3450 Acworth Due West Road
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Kennesaw, Georgia 30144
P. 770-917-9172
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www.mrpdesign.com

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DATE DESCRIPTION
06-24-20 FOR PERMIT / CONSTRUCTION

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CHKD BY:

PROJECT NAME AND ADDRESS

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SHELBYVILLE, INDIANA

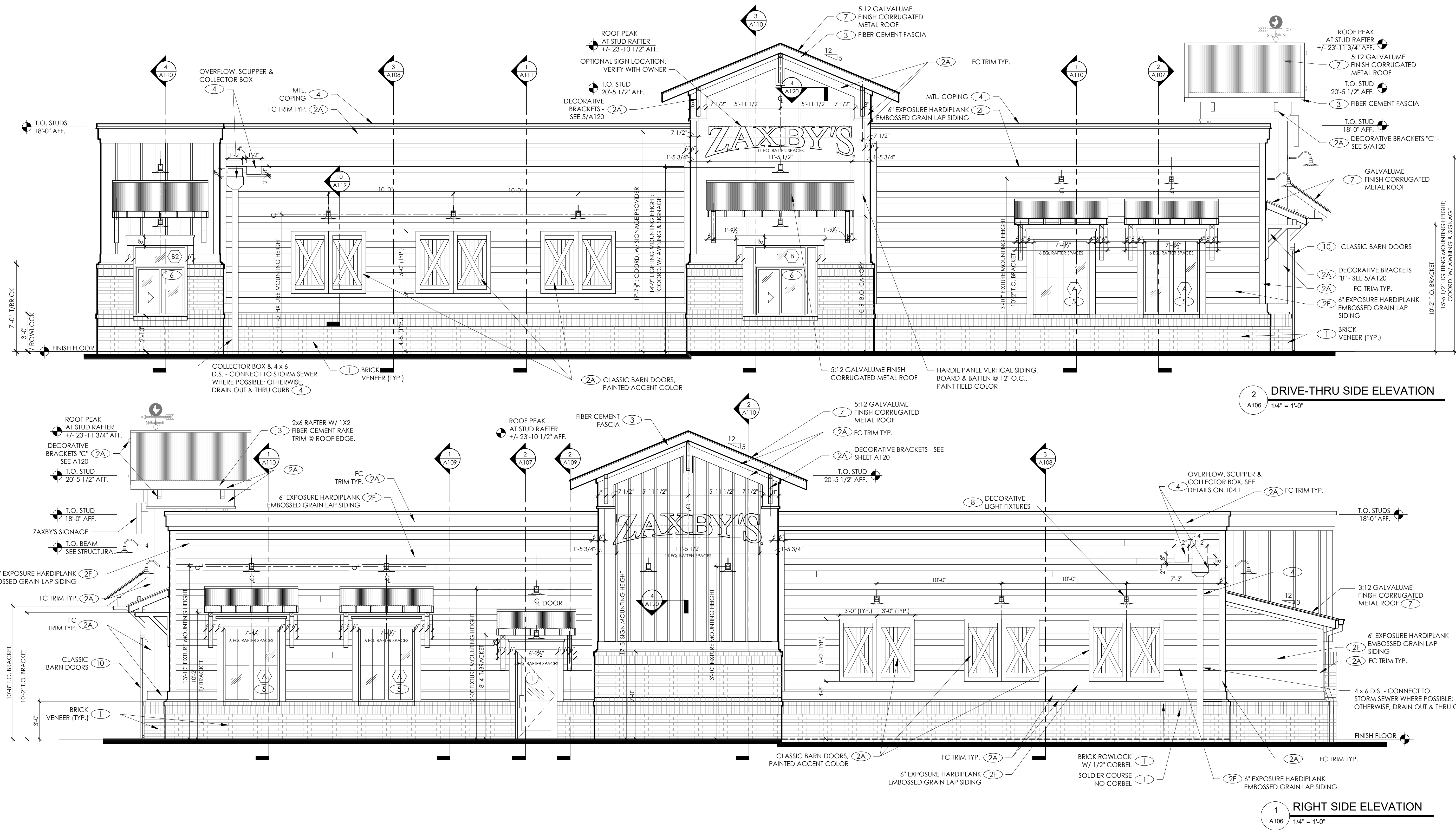
SHEET TITLE

FRONT & REAR
EXTERIOR ELEVATIONS

PROJECT NO: 20030

A105

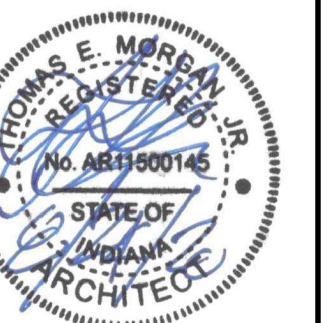
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SHELBYVILLE, INDIANA

SHEET TITLE

DRIVE THRU & RIGHT
EXTERIOR ELEVATIONS

PROJECT NO: 20030

A106