

1. NOTIFY ENGINEER IMMEDIATELY IF THERE ARE QUESTIONS REGARDING THE DRAWINGS AND/OR THE SPECIFICATIONS, OR IF THERE ARE ANY CONFLICTS BETWEEN THE DRAWINGS AND THE EXISTING CONDITIONS.

2. 3. THE EXISTING UTILITIES SHOWN HAVE BEEN LOCATED FROM VISIBLE FIELD EVIDENCE AND PROJECTS PLUS MAKES NO GUARANTEES THAT THE UTILITY INFORMATION SHOWN COMPRISES ALL SUCH UTILITIES IN THE AREA IN SERVICE OR ABANDONED. PROJECTS PLUS FURTHER STATES THAT THE UNDERGROUND UTILITY DATA SHOWN DOES NOT INDICATE PRECISE LOCATIONS ANY CONTRACTOR DOING ANY EXCAVATION WILL CALL. IN THEIR OWN UTILITY LOCATIONS TO THE UTILITY COMPANIES AND DAMAGED OR REPAIRED TO SATISFACTION OF STORAGE EXPRESS AND OPERATING AUTHORITY AT NO COST TO STORAGE EXPRESS. THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES TO BE REMOVED, RELOCATED OR ABANDONED PRIOR TO COMMENCING DEMOLITION ACTIVITIES.

3. THE CONTRACTOR SHALL COORDINATE WORK ASSOCIATED WITH THE REMOVAL, RELOCATION OR ABANDONMENT OF UTILITIES WITH THE UTILITY COMPANY OR ENTITY HAVING OWNERSHIP OF EACH RESPECTIVE UTILITY. COSTS FOR DISCONNECTION, REMOVAL, AND/OR RELOCATION OF EXISTING UTILITIES AS SHOWN ON THE DRAWINGS OR AS NECESSARY TO ALLOW FOR EXECUTION OF THE WORK SHALL BE PAID BY THE CONTRACTOR.

4. ALL EXISTING ON-SITE UTILITIES SHALL REMAIN UNLESS DESIGNATED FOR REMOVAL OR SHOULD THEY INTERFERE WITH PROJECT CONSTRUCTION. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES TO REMAIN. ALL UTILITIES WITHIN THE PROPOSED BUILDING FOOTPRINT WILL BE REMOVED UNLESS OTHERWISE NOTED.

5. REMOVE EXISTING UTILITIES ONLY AFTER CRITICAL NEW SYSTEMS ARE IN PLACE AND OPERATIONAL (I.E. STORM DRAINAGE, SERVICES TO EXISTING STRUCTURES). IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE PROPER REMOVAL, INCLUDING SAFE SEQUENCING OF REMOVAL FOR UTILITIES, CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES.

6. THE OWNER HAS FIRST SALVAGE RIGHTS ON ALL ITEMS REMOVED. IF OWNER FORFEITS RIGHTS THEN ALL DEMOLISHED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LEGALLY DISPOSED OF OFF-SITE UNLESS OTHERWISE SHOWN.

7. UNLESS SCHEDULED FOR DEMOLITION ON THE DRAWINGS, ALL TREES AND VEGETATION SHALL BE PROTECTED THROUGHOUT THE DURATION OF THE PROJECT. PROTECTIVE MEASURES SHALL INCLUDE INSTALLATION AND MAINTENANCE OF TREE PROTECTION FENCING TO BE LOCATED WHERE SHOWN AND AT THE DRIPLINE OF ALL TREES LOCATED WITHIN CLOSE PROXIMITY OF AREAS WHERE HEAVY EQUIPMENT WILL OPERATE.

8. A CLEAN, STRAIGHT EDGE SHALL BE SAWCUT BETWEEN ALL CONCRETE AND ASPHALT SURFACES SCHEDULED FOR DEMOLITION AND CONCRETE AND ASPHALT SURFACES TO REMAIN IN-PLACE. TERMINAL ENDS OF UNDERGROUND UTILITIES ABANDONED IN-PLACE SHALL BE CUT, CAPPED AND PLUGGED. THE ENDS OF DISCONNECTED UNDERGROUND UTILITIES SHALL BE MARKED FOR FUTURE IDENTIFICATION WITH DETECTABLE LOCATOR TAPE OR A METAL ROD.

9. ALL FOUNDATIONS, SLABS, STRUCTURAL STEEL, MASONRY, SIDEWALKS, RETAINING WALLS, CURBS, APPARATUSSES, ETC., WITHIN THE DESIGNATED DEMOLITION LINES SHALL BE DEMOLISHED ACCORDING TO SPECIFICATIONS. ALL DEMOLITION WITHIN PROPOSED FOOTPRINT SHALL BE COORDINATED WITH THE BUILDING DRAWINGS. NO OPEN BURNING SHALL BE PERMITTED ON THE SITE.

10. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN SAFE ACCESS FOR PEDESTRIANS AND VEHICLE TRAFFIC. THE CONTRACTOR WILL MAINTAIN ALL UTILITY SERVICES TO ALL BUSINESSES. IF UTILITY SERVICES MUST BE INTERRUPTED, THE CONTRACTOR SHALL COORDINATE THAT SHUTDOWN TO MINIMIZE IMPACT TO THE BUSINESSES AND EXISTING FACILITIES. COORDINATE SHUTDOWN AT LEAST ONE WEEK IN ADVANCE WITH BUSINESS OWNERS REPRESENTATIVE AND FACILITY MANAGER.

11. MANHOLES, CATCH BASINS, CLEANOUTS, VALVE BOXES, FRAMES COVERS AND GRATES REMAINING IN USE SHALL BE PROTECTED AND ADJUSTED TO FINAL GRADES.

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2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES IN THE VICINITY OF THE CONSTRUCTION AREA PRIOR TO STARTING ANY CONSTRUCTION.

3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR NOTIFICATION AND COORDINATION OF ALL CONSTRUCTION WITH THE RESPECTIVE UTILITY COMPANIES PRIOR TO STARTING ANY CONSTRUCTION.

EXISTING SANITARY SEWER W/ MANHOLE

EXISTING STORM SEWER W/ END SECTION, DITCH INLET AND PAVEMENT INLET

EXISTING WATER LINE W/ FIRE HYDRANT

EXISTING GAS LINE

EXISTING BURIED ELECTRIC CABLE

EXISTING BURIED TELEPHONE CABLE

EXISTING OVERHEAD POWERLINE

EXISTING UTILITY POLE

EXISTING PEDESTAL

EXISTING MAILBOX

EXISTING TRAFFIC SIGN

EXISTING AREA LIGHT

EXISTING TREELINE

EXISTING CHAINLINK FENCE

EXISTING SPOT ELEVATION

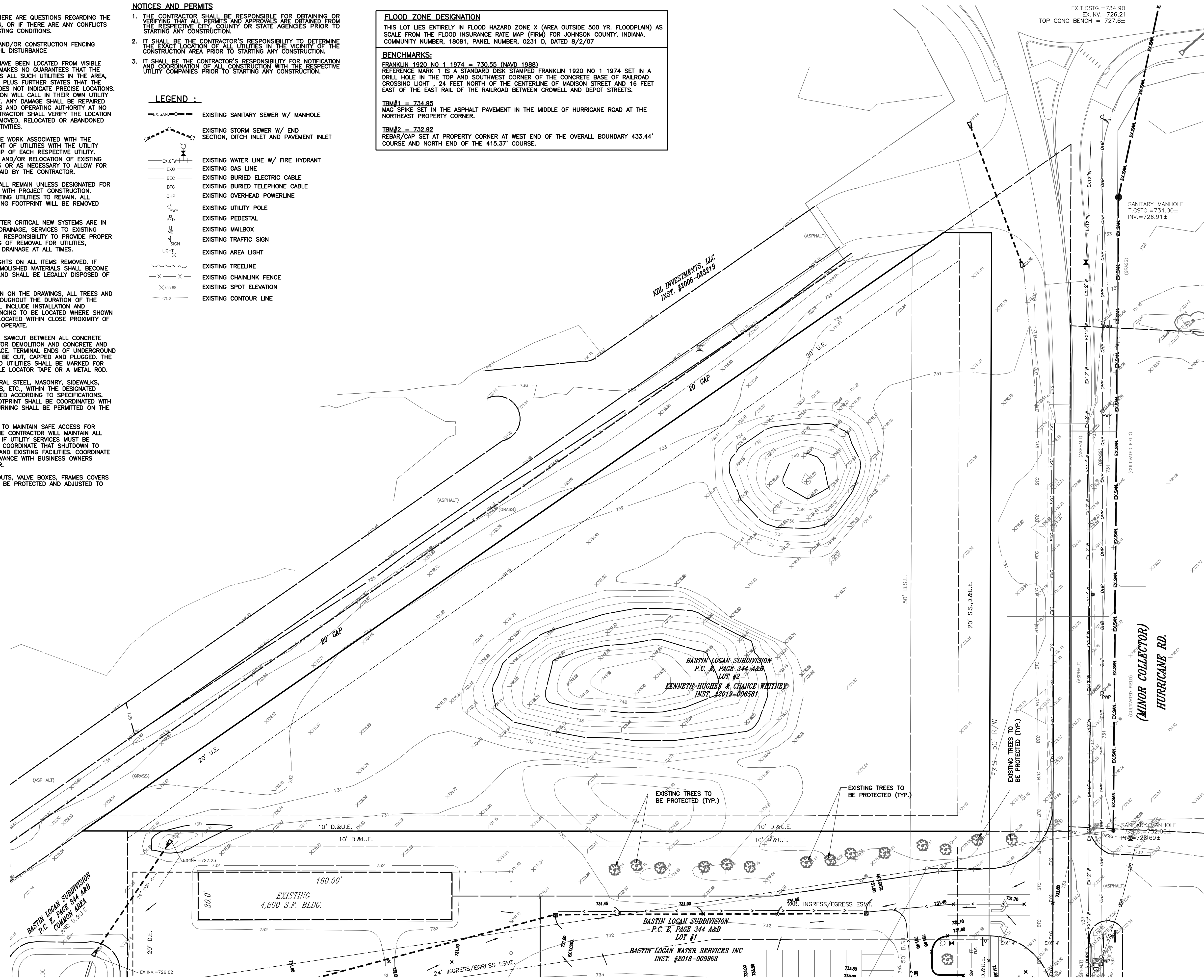
EXISTING CONTOUR LINE

THIS LOT LIES ENTIRELY IN FLOOD HAZARD ZONE X (AREA OUTSIDE 500 YR. FLOODPLAIN) AS SCALE FROM THE FLOOD INSURANCE RATE MAP (FIRM) FOR JOHNSON COUNTY, INDIANA, COMMUNITY NUMBER, 18081, PANEL NUMBER, 0231 D, DATED 8/2/07

FRANKLIN 1920 NO 1 1974 = 730.55 (NAVD 1988)
REFERENCE MARK 1 IS A STANDARD DISK STAMPED FRANKLIN 1920 NO 1 1974 SET IN A
DRILL HOLE IN THE TOP AND SOUTHWEST CORNER OF THE CONCRETE BASE OF RAILROAD
CROSSING LIGHT , 24 FEET NORTH OF THE CENTERLINE OF MADISON STREET AND 16 FEET
EAST OF THE EAST RAIL OF THE RAILROAD BETWEEN CROWELL AND DEPOT STREETS.

TBM#1 = 734.95
MAG SPIKE SET IN THE ASPHALT PAVEMENT IN THE MIDDLE OF HURRICANE ROAD AT THE
NORTHEAST PROPERTY CORNER.

TBM#2 = 732.92
REBAR/CAP SET AT PROPERTY CORNER AT WEST END OF THE OVERALL BOUNDARY 433.44
COURSE AND NORTH END OF THE 415.37' COURSE.



SYMBOL	REVISION	DATE
" = 30'		
DRAWN		
JPH		
CHECKED		
JKS		
CERTIFIED		
JKS		

PROJECT
SPECIALTY STORAGE SOLUTIONS
PHASE ONE
CITY OF FRANKLIN, JOHNSON COUNTY, INDIANA
TITLE
EXISTING SITE PLAN

PROJECTS *plus*

GREENWOOD SURVEYING COMPANY

CIVIL ENGINEERING — LAND SURVEYING
LAND PLANNING — CONSTRUCTION MANAGEMENT
2650 Fellman Place Suite W — Greenwood, Indiana 46142



JOB NUMBER
18009
SHEET

C201

DATE
MAY 9, 201



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REBAR/CAP SET AT PROPERTY CORNER AT WEST END OF THE OVERALL BOUNDARY 433.44'
COURSE AND NORTH END OF THE 415.37' COURSE.

1. CONTRACTOR SHALL RECOGNIZE RESPECTIVE WORK AND RESPONSIBILITY TO VERIFY LOCATION, SIZE, AND ELEVATION OF EXISTING UTILITIES, INCLUDING: PIPES, CULVERTS, DRAINAGE, AND ETC., AS RELATED TO THEIR WORK. NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICT AND/OR DISCREPANCIES IN THE CONSTRUCTION DOCUMENTS.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACQUIRE HIMSELF WITH SUBSOL CONDITIONS.
3. THE PLANS SHOW THE LOCATION OF ALL KNOWN UTILITIES LOCATED UNDER THE CONTRACT ACCORDING TO INFORMATION PROVIDED BY THE VARIOUS UTILITY COMPANIES, PREVIOUS CONSTRUCTION PLANS AND AS EVIDENCED BY OBSERVATION OF ABOVE UTILITIES. UNDER NO CIRCUMSTANCES, HOWEVER, THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED.
4. CONTRACTORS SHALL CONSULT ARCHITECTURAL, PLUMBING AND ELECTRICAL PLANS FOR: INVERT ELEVATIONS AND EXACT LOCATION OF DOWNSPOUTS, WATER LINES GAS LINES, TRANSFORMER'S PAD OR POLE, AND SUBMERSION EQUIPMENT.
5. ALL PAVEMENT PATCHING DUE TO UTILITIES INSTALLATION; CONSTRUCTION OF CURBS, ETC., OR DAMAGE TO EXISTING PAVEMENT DURING CONSTRUCTION SHALL BE PATCHED WITH A PAVEMENT SECTION OF THE SAME OR EXCEEDS THE COUNTY STANDARDS AS APPROVED BY THE ENGINEERING DEPARTMENT.
6. ALL GRASS AND/OR SHRUBBERY DISTURBED BY NEW CONSTRUCTION SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.
7. ALL EXISTING MANHOLE AND CATCH BASIN GRATES, WATER OR GAS VALVES SHALL BE ADJUSTED TO NEW FINISH GRADE ELEVATION
8. ALL PIPE LENGTHS SHOWN ON DRAWINGS ARE FOR HYDRAULIC CALCULATION PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE EXACT LENGTHS REQUIRED FOR ACTUAL INSTALLATION.
9. CONSTRUCTION OF ALL SEWER LINES AND STRUCTURES SHALL BE IN ACCORDANCE WITH LOCAL AND STATE CODE, RULES AND REGULATIONS
10. WHERE WATER LINES AND SEWERS CROSS AND THE WATER LINE CANNOT BE PLACED ABOVE OR BELOW THE SEWER WITH A MINIMUM OF 18" VERTICAL CLEARANCE, THE SEWER MUST BE CONSTRUCTED OF WATER WORKS GRADE OR SHALL BE PLACED WITH MECHANICAL JOINTS OR PLASTIC (SDR 26) SEWER PIPE WITH GASKETED, COMPRESSION-TYPE JOINTS WITHIN 10' OF THE WATER LINE.
11. WHERE WATER LINES AND SEWERS RUN PARALLEL, AND A MINIMUM SEPARATION SPACE OF 18" CANNOT BE MAINTAINED, THE SEWER MUST BE CONSTRUCTED OF WATER WORKS GRADE DUCTILE IRON PIPE WITH MECHANICAL JOINTS OR PLASTIC (SDR 26) SEWER PIPE WITH GASKETED, COMPRESSION-TYPE JOINTS.
12. ANY FIELD TIES ENCOUNTERED DURING THE COURSE OF CONSTRUCTION SHALL BE PERFORMED IN COMPLIANCE WITH STATE AND LOCAL LAWS AND REGULATIONS.
13. ALL STORM CISTERS ARE TO BE OF THE "ENVIRONMENTAL" TYPE AND EMBOSSED WITH THE APPROPRIATE LANGUAGE AND SYMBOLS. USE NPDES PHASE II COMPLIANT CASTINGS (DUMP NO WASTE; DRAINS TO RIVER) WHERE AVAILABLE
14. DIMENSIONS TO FACE OF CURB.
15. CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGED CONCRETE SIDEWALK OR CONCRETE CURB DISTRIBUTED BY CONSTRUCTION.

1. THE CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING OR VERIFYING THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY OR STATE AGENCIES PRIOR TO STARTING ANY CONSTRUCTION.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES IN THE VICINITY OF THE CONSTRUCTION AREA PRIOR TO STARTING ANY CONSTRUCTION.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR NOTIFICATION AND COORDINATION OF ALL CONSTRUCTION WITH THE RESPECTIVE UTILITY COMPANIES PRIOR TO STARTING ANY CONSTRUCTION.

GENERAL:
BUILDING AREA - 32,700 S.F. (TOTAL BUILDOUT)
BUILDING AREA - 11,100 S.F. (PHASE ONE)
SITE AREA - 2.61 AC.
PROPOSED IMPERVIOUS IMPROVEMENTS - 2.21 AC.
(TOTAL BUILDOUT)
PROPOSED IMPERVIOUS IMPROVEMENTS - 0.88 AC.
(PHASE ONE)

PROPOSED USE: INDUSTRIAL
ZONING DISTRICT: IBD (INDUSTRIAL BUSINESS
DEVELOPMENT)

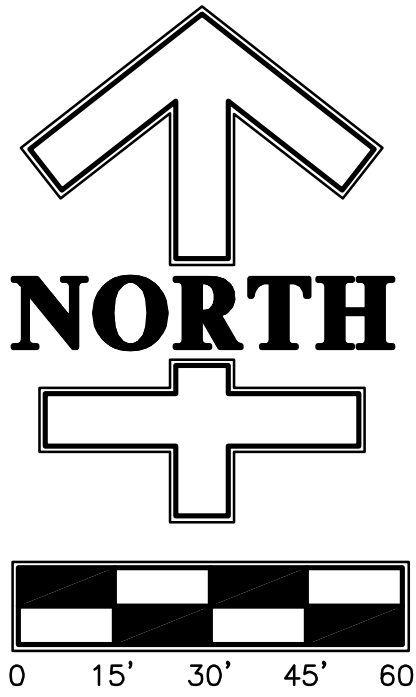
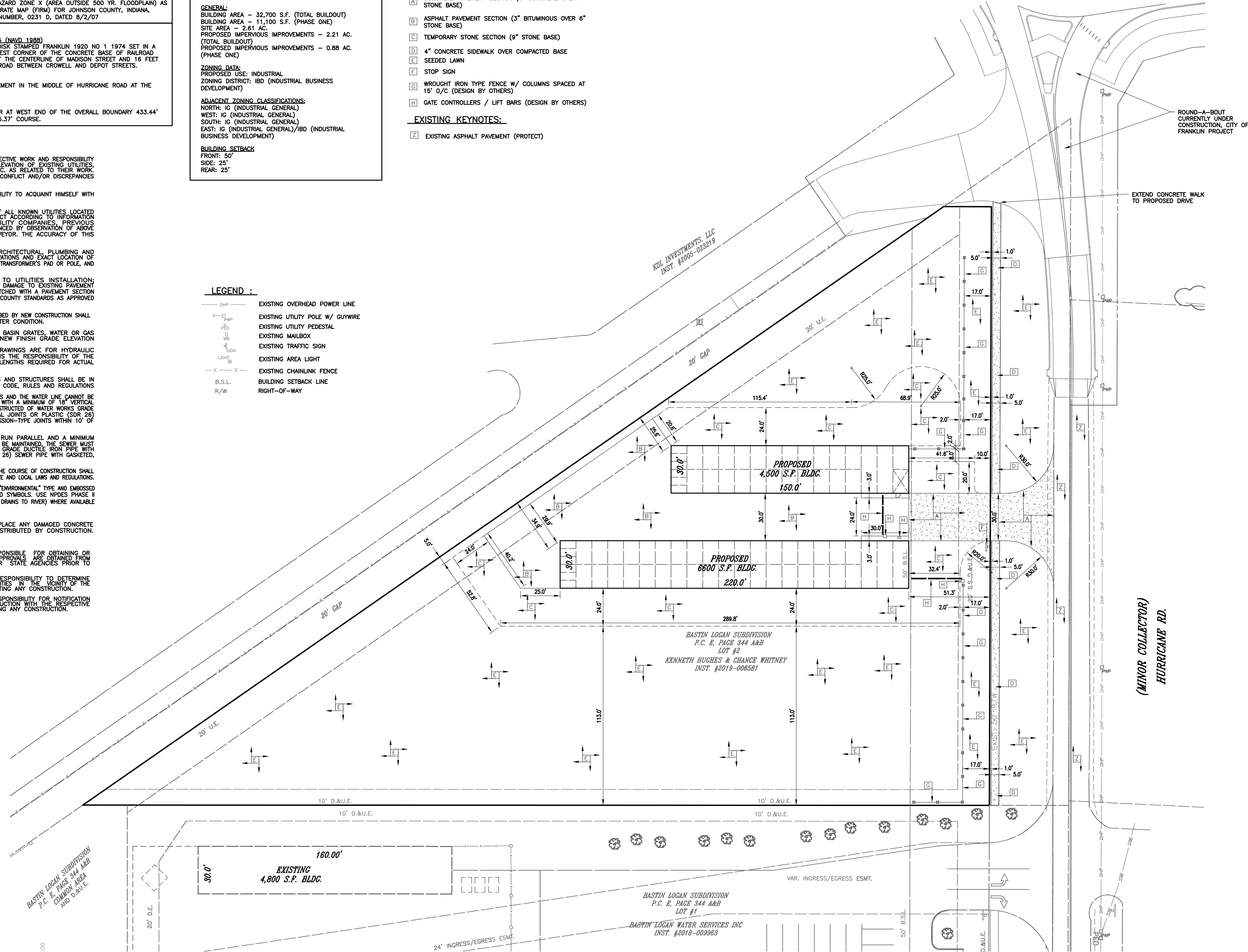
NORTH: IG (INDUSTRIAL GENERAL)
WEST: IG (INDUSTRIAL GENERAL)
SOUTH: IG (INDUSTRIAL GENERAL)
EAST: IG (INDUSTRIAL GENERAL)/IBD (INDUSTRIAL
BUSINESS DEVELOPMENT)

FRONT: 50'
SIDE: 25'
REAR: 25'

OH/P	EXISTING OVERHEAD POWER LINE
← P/W/P	EXISTING UTILITY POLE W/ GUYWIRE
PED	EXISTING UTILITY PEDESTAL
MB	EXISTING MAILBOX
TRF	EXISTING TRAFFIC SIGN
LIGHT	EXISTING AREA LIGHT
X — X	EXISTING CHAINLINK FENCE
B.S.L.	BUILDING SETBACK LINE
R/W	RIGHT-OF-WAY

A	CONCRETE PAVEMENT SECTION (6" CONCRETE OVER 4" STONE BASE)
B	ASPHALT PAVEMENT SECTION (3" BITUMINOUS OVER 6" STONE BASE)
C	TEMPORARY STONE SECTION (9" STONE BASE)
D	4" CONCRETE SIDEWALK OVER COMPACTED BASE
E	SEEDED LAWN
F	STOP SIGN
G	WROUGHT IRON TYPE FENCE W/ COLUMNS SPACED AT 15' o/c (DESIGN BY OTHERS)
H	GRADE CONTROLLERS / LIFT BARS (DESIGN BY OTHERS)

☒ EXISTING ASPHALT PAVEMENT (PROTECT)



(MINOR COLLECTOR)
HURRICANE RD.



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<p>PROJECTS <i>plus</i></p> <p>GREENWOOD SURVEYING COMPANY</p> <p>CIVIL ENGINEERING — LAND SURVEYING PLANNING — CONSTRUCTION MANAGEMENT 2650 Fairview Place Suite W — Greenwood, Indiana 46142 (317) — 892 — 5003</p>		<p>DATE</p> <p>MAY 9, 2019</p>	
<p>SEAL</p> <p><i>Jeffery K. Smith</i> 5/9/19</p>		<p>DATE</p> <p>MAY 9, 2019</p>	
<p>JOB NUMBER</p> <p>18009</p>		<p>DATE</p> <p>MAY 9, 2019</p>	
<p>SHEET</p> <p>C301</p>		<p>DATE</p> <p>MAY 9, 2019</p>	
<p>PROJECT</p> <p>SPECIALTY STORAGE SOLUTIONS PHASE ONE</p>		<p>SYMBOL</p> <p>SCALE 1"=30'</p>	
<p>TITLE</p> <p>CITY OF FRANKLIN, JOHNSON COUNTY, INDIANA</p>		<p>REVISION</p>	
<p>GEOMETRIC PLAN</p>		<p>DRAWN</p> <p>JPH</p>	
<p>CHECKED</p> <p>JKS</p>		<p>CERTIFIED</p> <p>JKS</p>	

1. CONTRACTOR SHALL RECOGNIZE RESPECTIVE WORK AND RESPONSIBILITY TO VERIFY LOCATION, SIZE, AND ELEVATION OF EXISTING UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND LOCATING UTILITIES BY THE FOLLOWING METHODS: (A) RECORDS, (B) EXCAVATIONS, (C) NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICT AND/OR DISCREPANCIES IN THE CONSTRUCTION DOCUMENTS.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACQUAINT HIMSELF WITH SUBSOL CONDITIONS.
3. THE PLANS SHOW THE LOCATION OF ALL KNOWN UTILITIES LOCATED WITHIN THE LIMITS OF THE CONTRACT ACCORDING TO INFORMATION PROVIDED BY THE ARCHITECT/ENGINEER. CONTRACTOR SHALL VERIFY THE CONSTRUCTION PLANS AND AS EVIDENCED BY OBSERVATION OF ABOVE GROUND CONDITIONS BY THE SURVEYOR. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED.
4. CONTRACTORS SHALL CONSULT ARCHITECTURAL, PLUMBING AND ELECTRICAL PLANS FOR INVERT ELEVATIONS AND EXACT LOCATION OF DOWNSPOUTS, WATER LINES GAS LINES, TRANSFORMER'S PAD OR POLE, AND BUILDING DIMENSIONS.
5. ALL PAVEMENT PATCHING DUE TO UTILITIES INSTALLATION; CONSTRUCTION OF CURBS, ETC., OR DAMAGE TO EXISTING PAVEMENT BY THE CONTRACTOR SHALL BE PATCHED WITH A PAVEMENT SECTION WHICH MEETS OR EXCEEDS JOHNSON COUNTY STANDARDS AS APPROVED BY THE ENGINEERING DEPARTMENT.
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11. WHERE WATER LINES AND SEWERS RUN PARALLEL AND A MINIMUM SEPARATION DISTANCE OF 10' CANNOT BE MAINTAINED, THE SEWER MUST BE CONSTRUCTED OF WATER WORKS GRADE OR HIGHER. LOCATED SEWERS SHALL BE GRADED TO PROTECT THE SEWER PIPE. MECHANICAL JOINTS OR PLASTIC (SDR 26) SEWER PIPE WITH GASKETED, COMPRESSION-TYPE JOINTS.
12. ANY FIELD TIES ENCOUNTERED DURING THE COURSE OF CONSTRUCTION SHALL BE PERPETUATED IN COMPLIANCE WITH STATE AND LOCAL LAWS AND REGULATIONS.
13. ALL STORM CASTINGS ARE TO BE OF THE "ENVIRONMENTAL" TYPE AND EXPOSED TO THE ELEMENTS. ALL STORM CASTINGS SHALL BE PROTECTED BY A COMPLAINT CASTINGS (DUMP NO WASTE, DRAINS TO RIVER) WHERE AVAILABLE.
14. CONTRACTOR TO CONTACT ARCHITECTURAL OR DEVELOPER FOR IRRIGATION SYSTEM AND GREASE TRAP DESIGNS.
15. CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGED CONCRETE SIDEWALK OR CONCRETE CURB DISTRIBUTED BY CONSTRUCTION.

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	<i>Jeffery K. Smith</i> 5/19/19			
	JOB NUMBER	18009		
	SHEET			
		C401		
DATE	MAY 9, 2019			

INDEX OF REQUIRED INFORMATION FOR CONSTRUCTION
STORM WATER POLLUTION PREVENTION FOR
SPECIALTY CONCRETE SELF STORAGE - PHASE ONE

EROSION CONTROL PLAN INDEX									
A1	ELEMENT SHEET	ELEMENT SHEET	ELEMENT SHEET	ELEMENT SHEET	ELEMENT SHEET	ELEMENT SHEET	ELEMENT SHEET	ELEMENT SHEET	ELEMENT SHEET
A2	C501	A12	N/A	A23	C401	B10	C501/C801		
A3	ATTACHED	A13	N/A	A24	C501	B11	C501/C801		
A4	C501	A14	C501	B1	C501	B12	C501/C801		
A5	C101	A15	C501	B2	C501/C801	B13	C501/C801		
A6	C501	A16	C501	B3	C501/C801	B14	C501/C801		
A7	C501	A17	C201	B4	C501/C801	B15	C501/C801		
A8	C501	A18	C801	B5	C401/C801	C1	C501		
A9	N/A	A19	C501	B6	C501/C801	C2	C501		
A10	C501	A20	N/A	B7	C501/C801	C3	C801		
A11	N/A	A21	C501	B8	C501/C801	C4	C801		
A12	C501	A22	C201	B9	N/A	C5	C501		

- A2. INCLUDED IN SUBMITTAL PACKET
A3. SPECIALTY CONCRETE SELF STORAGE - PHASE ONE IS LOCATED ON A 2.61 ACRES TRACT AT 1050 N. HURRICANE RD., FRANKLIN, IN 46131. THE CONSTRUCTION IMPROVEMENTS SHALL CONSIST OF TWO SELF STORAGE BUILDINGS, DIRT WORK, ASPHALT AND CONCRETE DRIVES, STORM SEWER, CONCRETE SWALE AND UTILITY SERVICE LINES.
A4. VICINITY MAP ON TITLE SHEET - SEE SHEET C101
A5. LEGAL DESCRIPTION - NW 1/4, SEC. 13-T12N-R4E
LATITUDE: N39°29'30" LONGITUDE: W86°02'36"
A6. IMPROVEMENTS SHOWN ON PROPOSED SITE CONDITIONS - SEE SHEET C501
A7. HYDROLOGIC UNIT CODE: 05120204090050
A8. NO STATE OR FEDERAL WATER QUALITY PERMITS ARE REQUIRED FOR THIS PROJECT.
A9. THE STORMWATER WILL DISCHARGE ACROSS THIS SITE FROM EAST TO WEST INTO AN EXISTING CULVERT THAT RELEASES TO AN EXISTING REGIONAL DRY DETENTION BASIN. THIS POND RELEASES TO AN EXISTING STORM SEWER SOUTHEASTERLY. THIS PIPE ULTIMATELY DISCHARGES TO HURRICANE CREEK
A10. NO WETLANDS EXIST ON SITE
A11. RECEIVING WATERS: EXISTING DITCH, ULTIMATELY HURRICANE CREEK
A12. WE ANTICIPATE NO POTENTIAL AREAS WERE DISCHARGE WILL ENTER GROUNDWATER.
A13. NO 100 YEAR FLOODPLAINS, FLOODWAYS OF FLOODWAY FRINGES EXIST ON THIS SITE
A14. PRE-CONSTRUCTION 10 YEAR OUTFLOW = 7.49 C.F.S.
POST-CONSTRUCTION 10 YEAR OUTFLOW = 2.69 C.F.S.
A15. LAND USE OF ADJACENT PROPERTIES:
NORTH: INDUSTRIAL
WEST: INDUSTRIAL
SOUTH: INDUSTRIAL
EAST: AGRICULTURE
A16. BOUNDARY OF DISTURBED AREA SHOWN ON PLANS - SEE SHEET C501
A17. EXISTING SITE IS AGRICULTURE FIELD- SEE SHEET C201
A18. SOIL MAP LOCATED ON STORMWATER POLLUTION PREVENTION DETAIL SHEET - SEE SHEET C801
A19. LOCATION, SIZE AND DIMENSIONS OF STORM WATER SYSTEMS SHOWN ON UTILITY PLAN - SEE SHEET C601
A20. NO OFFSITE CONSTRUCTION ACTIVITIES WILL BE NECESSARY
A21. SOIL STOCKPILE, BORROW AND DISPOSAL AREAS SHALL BE CONTAINED WITHIN THE CONSTRUCTION BOUNDARY AND INCLUDE PERIMETER PROTECTION, I.E. FILTER FENCE, AS SHOWN ON STORMWATER POLLUTION PREVENTION PLAN - SEE SHEET C501
A22. EXISTING SITE TOPOGRAPHY SHOWN ON EXISTING SITE CONDITION PLANS - SEE SHEET C201
A23. PROPOSED FINAL SITE TOPOGRAPHY SHOWN ON PROPOSED SITE CONDITION PLANS - SEE SHEET C401

- B1. POTENTIAL STORM WATER POLLUTANT SOURCES ASSOCIATED WITH CONSTRUCTION ACTIVITY INCLUDE GASOLINE, OIL AND OTHER FLUIDS FROM CONSTRUCTION EQUIPMENT, CONCRETE, ASPHALT AND SEDIMENT LADEN RUNOFF. CONTRACTOR SHALL ESTABLISH AN EMPLOYEE PARKING AREA AND VEHICLE MAINTENANCE AREA AS SHOWN ON THE PLANS. A PROPER CONCRETE WASHOUT AREA SHALL ALSO BE ESTABLISHED AS SHOWN ON THE PLANS.
B2. STORM WATER QUALITY MEASURES SHOWN ON PLANS - SEE GENERAL NOTE #5 THIS SHEET. IMPLEMENTATION SCHEDULE SHOWN ON STORMWATER POLLUTION PREVENTION DETAIL SHEET - SEE SHEET C801
B3. CONSTRUCTION ENTRANCE LOCATION SHOWN ON STORMWATER POLLUTION PREVENTION PLAN - SEE SHEETS C501, C801
B4. SEDIMENT CONTROL MEASURES FOR SHEET FLOW SHOWN ON STORMWATER POLLUTION PREVENTION PLAN - SEE SHEET C501
B5. SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW SHOWN ON STORMWATER POLLUTION PREVENTION PLAN - SEE SHEET C501
B6. CONSTRUCTION ENTRANCE LOCATION SHOWN ON STORMWATER POLLUTION PREVENTION PLAN - SEE SHEETS C501, C801
B7. RUNOFF CONTROL MEASURES SHOWN ON STORMWATER POLLUTION PREVENTION PLAN - SEE SHEETS C501, C801
B8. STORM WATER OUTLET PROTECTION SHOWN ON STORMWATER POLLUTION PREVENTION PLAN - SEE SHEETS C601, C801
B9. NO GRADE STABILIZATION MEASURES ARE NECESSARY
B10. DETAILS FOR STORM WATER QUALITY MEASURES ARE SHOWN ON THE STORMWATER POLLUTION PREVENTION PLAN - SEE SHEETS C501, C801
B11. SURFACE STABILIZATION METHODS SHOWN ON STORMWATER POLLUTION PREVENTION PLAN - SEE SHEETS C501, C801
B12. PERMANENT SURFACE STABILIZATION SPECIFICATIONS SHOWN ON STORMWATER POLLUTION PREVENTION PLAN - SEE SHEETS C501, C801
B13. MATERIAL HANDLING AND STORAGE ASSOCIATED WITH CONSTRUCTION ACTIVITY SHALL MEET THE SPILL PREVENTION AND SPILL RESPONSE REQUIREMENTS IN 327 IAC 2-6.1. FULL EMERGENCY PLAN SHOWN ON SHEET C801 ALL MATERIALS SHALL BE HANDLED IN ACCORDANCE WITH GUIDELINES SET FORTH IN MATERIAL SAFETY DATA SHEETS PROVIDED BY MANUFACTURER.
B14. SHOWN ON STORMWATER POLLUTION PREVENTION PLAN - SEE SHEETS C501, C801
B15. EROSION CONTROL FOR INDIVIDUAL BUILDING LOTS CONSTRUCTION SEQUENCE AS FOLLOWS:

1. CONSTRUCT STONE DRIVEWAY.
2. LIMIT ALL DELIVERIES TO THE STONE DRIVEWAY.
3. PRESERVE AS MUCH OF THE EXISTING VEGETATION AS POSSIBLE.
4. LARGE EXPOSED AREAS ON OR NEAR SLOPES WILL REQUIRE A SILT FENCE.
5. AFTER CONSTRUCTION OF FOUNDATION, ROUGH GRADE AND SEED LOT.
6. AFTER BUILDING CUTTERS ARE INSTALLED, USE TEMPORARY EXTENSIONS TO LET WATER PASS EXPOSED AREAS.
7. AFTER FINAL GRADING, SEED OR SOD THE YARD AS SOON AS POSSIBLE.
8. EXPECTED POLLUTANTS ASSOCIATED WITH THE PROPOSED LAND USE INCLUDE FLUIDS FROM VEHICULAR TRAFFIC (I.E. OIL, GREASE, ANTIFREEZE, GASOLINE, ETC.), SAND AND GRIT FROM ROADWAY SURFACES AND SUBSTANCES ASSOCIATED WITH THE MAINTENANCE OF LAWNS AND GARDENS. THE ONLY OTHER REASONABLY FORESEEN POLLUTION FROM THIS SITE WILL BE MINIMAL AMOUNT OF LITTER AND TRASH FROM IMPROPER DISPOSAL.
9. POST CONSTRUCTION STORMWATER QUALITY SHOULD BE INSTALLED PRIOR TO MAJOR LAND DISTURBANCE OCCURRING.

1. EROSION CONTROL MEASURES SHOWN ON THIS PLAN TO BE INSTALLED FIRST.
2. DETENTION PONDS AND ANY WATER QUALITY BEST MANAGEMENT PRACTICE (BMP) STRUCTURES TO BE UTILIZED FOR SEDIMENT CONTROL.
3. INSTALL RIP RAP PROTECTION AT ALL END SECTIONS ENTERING POND AS SOON AS PIPES ARE IN PLACE.
4. INSPECT AND RE-SEED SWALES AS NEEDED AFTER COMPLETION OF FINAL GRADING.
5. MONITOR AND MAINTAIN SWALE AREAS UNTIL A MATURE STAND OF GRASS EXISTS.
6. CLEAN ALL CATCH BASINS OF DEBRIS WHEN GRADING IS COMPLETE.
7. SWEEP STREETS REGULARLY AND KEEP FREE OF DEBRIS.
8. FINAL STABILIZATION OF THE SITE USING PERMANENT SEEDING OF ALL OPEN AREAS.
9. POST-CONSTRUCTION STORM WATER QUALITY WILL BE ACCOMPLISHED BY ROUTING THE SITE RUNOFF THROUGH A DRY DETENTION POND DESIGNED TO DETAIN, FOR AT LEAST 24 HOURS AFTER PEAK RUNOFF, 20% OF THE RUNOFF GENERATED FROM EITHER A 1-1/4" STORM EVENT OR 1/2" OF DIRECT RUNOFF, WHICHEVER IS GREATER. THE DETENTION FACILITY ACTS AS A PERMANENT STORMWATER CONTROL STRUCTURE PROVIDING BOTH DETENTION AND TREATMENT OF CONTAMINATED STORMWATER RUNOFF. THE POND'S NATURAL PHYSICAL, BIOLOGICAL, AND CHEMICAL PROCESSES THEN WORK TO REMOVE POLLUTANTS. SEDIMENTATION PROCESSES REMOVE PARTICULATES, ORGANIC MATTER, AND METALS, WHILE DISSOLVED METALS AND NUTRIENTS ARE REMOVED THROUGH BIOLOGICAL UPTAKE. FURTHER MAINTENANCE INCLUDES SWEEPING OF ALL PAVED SURFACES AS WELL AS COLLECTION OF ANY LITTER. ALL DRAINAGE SWALES AND GREEN SPACES WILL BE MAINTAINED WITH REGULAR MOWING DURING GROWING SEASONS.
10. WATER QUALITY MEASURES ARE SHOWN ON STORM SEWER POLLUTION PREVENTION PLAN - SEE SHEET C501.
11. MAINTENANCE OF ALL STORM WATER POLLUTION PREVENTION MEASURES WILL BE THE RESPONSIBILITY OF THE PROJECT OWNER UTILIZING PROCEDURES OUTLINED ON THESE PLANS. ANY GRASSED OR VEGETATED AREAS THAT EXPERIENCE EROSION FROM RAINFALL EVENTS SHOULD BE REPAIRED AND REVEGETATED AS SOON AS POSSIBLE.
12. A. EROSION OF THE DETENTION POND BANKS SHOULD BE ADDRESSED AS SOON AS IT BECOMES VISIBLE BY FILLING THE ERODED AREA WITH SUITABLE SOIL AND ESTABLISHING VEGETATION IMMEDIATELY. PREFERABLY BY SODDING. THE SAME MEASURE SHOULD BE USED FOR STEEP BANKS OR ANY BERMS OR SWALES. THE PONDS SHOULD ALSO BE MONITORED FOR SEDIMENT. IF THE BOTTOM OF THE POND RECEIVED SIGNIFICANT SEDIMENT (LESS THAN 2 FEET DEEP), THE SEDIMENT SHOULD BE REMOVED AND REPLACED ONSITE. AN ENGINEER SHOULD BE CONTACTED TO IDENTIFY THE SOURCE AND RECOMMEND REPAIRS.
13. B. PAVEMENT SHOULD BE MONITORED FOR POLLUTANTS; ANY LARGE QUANTITIES OF FLUID SUCH AS OIL, ANTIFREEZE, BRAKE FLUID, ETC. FOUND ON THE PAVEMENT SHOULD BE REPORTED TO THE OWNER. THE OWNER SHOULD CLEAN THE POLLUTANTS AND PREVENT THE SOURCE FROM ENTERING THE SITE IN THE FUTURE. FINALLY, PAVEMENTS SHOULD ALSO BE MONITORED FOR SEDIMENT COMING FROM VEGETATIVE AREAS. IF POST CONSTRUCTION EROSION IS OCCURRING, THE SOURCE SHOULD BE RE-STABILIZED AS SOON AS POSSIBLE BY SEEDING, SODDING OR MULCHING.

SITE CONTACT:
KENNETH HUGHES & CHANCE WHITNEY
4717 E. GREENSBURG ROAD
FRANKLIN, IN 46131
PHONE: 317-430-1993

NOTICES AND PERMITS

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING OR VERIFYING THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE LOCAL, COUNTY OR STATE AGENCIES PRIOR TO STARTING ANY CONSTRUCTION.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES IN THE VICINITY OF THE CONSTRUCTION AREA PRIOR TO STARTING ANY CONSTRUCTION.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR NOTIFICATION AND COORDINATION OF ALL CONSTRUCTION WITH THE RESPECTIVE UTILITY COMPANIES PRIOR TO STARTING ANY CONSTRUCTION.

NOTES:

1. ALL EROSION CONTROL MEASURES INDICATED SHALL BE MAINTAINED BY THE CONTRACTOR AND OWNER.
2. THE CITY ENGINEER AND MSA/EROSION CONTROL INSPECTOR HAS THE RIGHT TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES IN THE FIELD AS CONDITIONS WARRANT
3. FOR EROSION CONTROL IMPLEMENTATION AND MAINTENANCE SCHEDULE SEE "EROSION CONTROL REQUIREMENTS" ON STORMWATER POLLUTION PREVENTION PLAN DETAIL SHEET.
4. ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE "INDIANA STORM WATER QUALITY MANUAL" AND THE SCS "FIELD OFFICE TECHNICAL GUIDE".

GENERAL NOTES:

1. ALL EROSION CONTROL MEASURES ARE REQUIRED TO BE PER INDIANA STORMWATER QUALITY MANUAL SPECIFICATION, DATED OCTOBER 2007, OR MOST CURRENT.
2. TEMPORARY SEEDING - THE AREAS WHERE STRIPPING, CUTS OR FILLS HAVE BEEN GRADED SHALL BE SEED FOR SILT AND EROSION PROTECTION SHALL BE AS PER I.S.W.Q.M. SPECIFICATIONS (TEMPORARY SEEDING). SEEDING SHALL BE WITH ONE OF THE FOLLOWING METHODS:
A. EARLY SPRING MIX: 100% SPRING OATS SEEDING RATE: 100 LBS./ACRE
B. SPRING OR LATE FALL MIX: 100% ANNUAL RYEGRASS SEEDING RATE: 40 LBS./ACRE
C. FALL MIX: 100% PERENNIAL RYE SEEDING RATE 150 LBS./ACRE
3. MULCHING - MULCHING IS REQUIRED FOR ALL TEMPORARY AND PERMANENT SEEDED AREAS AS TO PREVENT REMOVAL BY WIND OR WATER. MULCHING SHALL BE ANCHORED AS OUTLINED IN I.S.W.Q.M. SPECIFICATIONS (MULCHING), BY A COMBINATION OF THE FOLLOWING:
A. MULCH ANCHORING TOOL OR FARM DISK
B. CLEETING WITH DOZER TRACKS
C. WOOD HYDROMULCH FIBERS
D. SYNTHETIC JACKPERS, BINDER OR SOIL STABILIZERS
E. NETTING
4. EROSION CONTROL BLANKET/NETTING - BLANKET IS REQUIRED AT SLOPED AREAS AND CONVEYANCE CHANNELS TO PREVENT EROSION AND PROTECT SOIL AND SEEDING FROM WATER RUNOFF. EROSION CONTROL BLANKETS SHALL BE INSTALLED PER CURRENT I.S.W.Q.M. SPECIFICATIONS (SURFACE STABILIZATION).
5. WATER QUALITY MAINTENANCE - AT THE COMPLETION OF CONSTRUCTION ALL EXCESS SOIL AND OTHER MATERIAL SHALL BE REMOVED FROM THE SITE. TO ENSURE PROPER WATER QUALITY THE SITE AND ITS STORM WATER CONVEYANCE FACILITIES SHALL BE INSPECTED AT REGULAR INTERVALS AND AFTER ALL MAJOR RAIN EVENTS, THE STORM WATER CONVEYANCE SYSTEMS SHALL BE KEPT FREE OF DEBRIS AND FLUIDS THAT COULD POTENTIALLY POLLUTE STORM WATER RUNOFF.
6. PROJECT SITE OWNER OR THEIR REPRESENTATIVE, KNOWLEDGEABLE IN EROSION AND SEDIMENT CONTROL, SHALL INSPECT THE SITE FOR STORM WATER POLLUTION PREVENTION DEFICIENCIES AT LEAST WEEKLY AND AGAIN WITHIN 24 HOURS OF EVERY 1/2 INCH RAIN EVENT.
7. ALL HAZARDOUS MATERIALS USED DURING THE CONSTRUCTION OF THIS SITE SHALL BE HANDLED AT ALL TIMES ACCORDING TO RECOMMENDATIONS IN THE MATERIAL SAFETY DATA SHEETS PROVIDED BY THE MANUFACTURER. SITE CONTRACTOR TO IMPLEMENT A SPILL PREVENTION PLAN PRIOR TO START OF CONSTRUCTION.

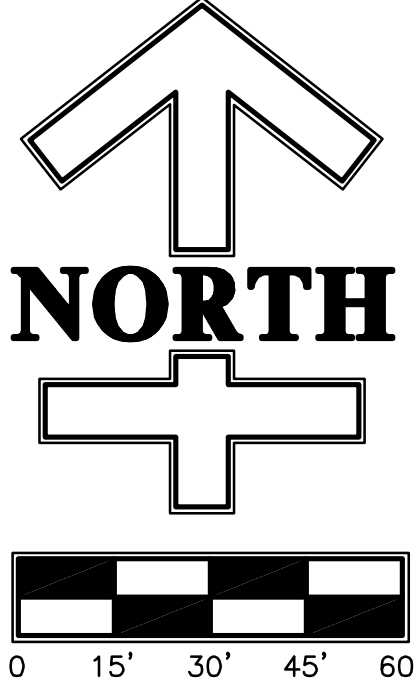
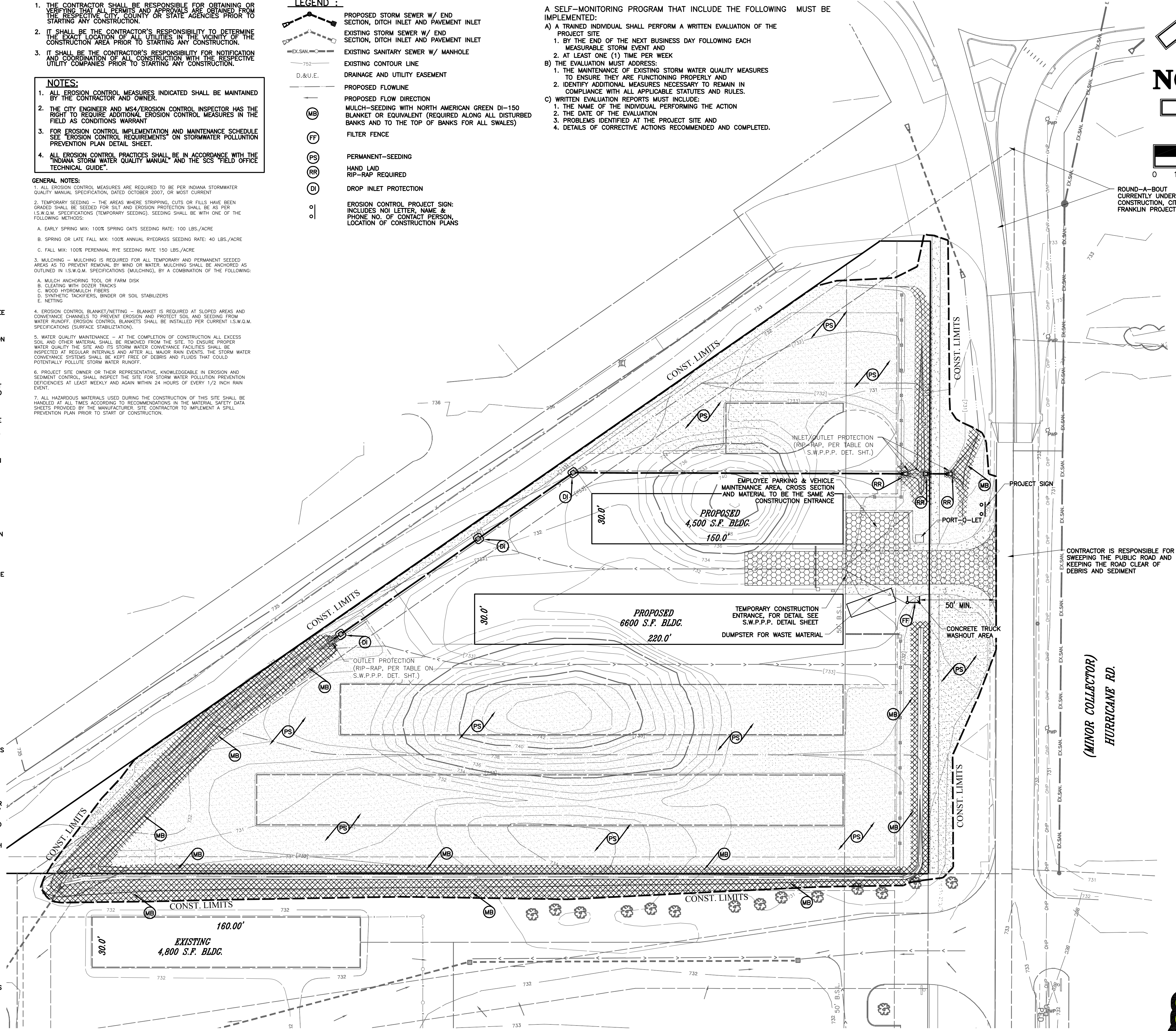
LEGEND :

- PROPOSED STORM SEWER W/ END SECTION, DITCH INLET AND PAVEMENT INLET
EXISTING STORM SEWER W/ END SECTION, DITCH INLET AND PAVEMENT INLET
EXISTING SANITARY SEWER W/ MANHOLE
EXISTING CONTOUR LINE
DRAINAGE AND UTILITY EASEMENT
PROPOSED FLOWLINE
PROPOSED FLOW DIRECTION
MULCH-SEEDING WITH NORTH AMERICAN GREEN DI-150 BLANKET OR EQUIVALENT (REQUIRED ALONG ALL DISTURBED BANKS AND TO THE TOP OF BANKS FOR ALL SWALES)
FILTER FENCE
PERMANENT-SEEDING
HAND LAID RIP-RAP REQUIRED
DROP INLET PROTECTION

EROSION CONTROL PROJECT SIGN:
INCLUDES NO LETTER, NAME & PHONE NO. OF CONTACT PERSON, LOCATION OF CONSTRUCTION PLANS

A SELF-MONITORING PROGRAM THAT INCLUDE THE FOLLOWING MUST BE IMPLEMENTED:

- A) A TRAINED INDIVIDUAL SHALL PERFORM A WRITTEN EVALUATION OF THE PROJECT SITE
1. BY THE END OF THE NEXT BUSINESS DAY FOLLOWING EACH MEASURABLE STORM EVENT AND
 2. AT LEAST ONE (1) TIME PER WEEK
- B) THE EVALUATION MUST ADDRESS:
1. THE MAINTENANCE OF EXISTING STORM WATER QUALITY MEASURES TO ENSURE THEY ARE FUNCTIONING PROPERLY AND
 2. IDENTIFY ADDITIONAL MEASURES NECESSARY TO REMAIN IN COMPLIANCE WITH ALL APPLICABLE STATUTES AND RULES.
- C) WRITTEN EVALUATION REPORTS MUST INCLUDE:
1. THE NAME OF THE INDIVIDUAL PERFORMING THE ACTION
 2. THE DATE OF THE EVALUATION
 3. PROBLEMS IDENTIFIED AT THE PROJECT SITE AND
 4. DETAILS OF CORRECTIVE ACTIONS RECOMMENDED AND COMPLETED.



ROUND-A-BOUT
CURRENTLY UNDER
CONSTRUCTION, CITY OF
FRANKLIN PROJECT

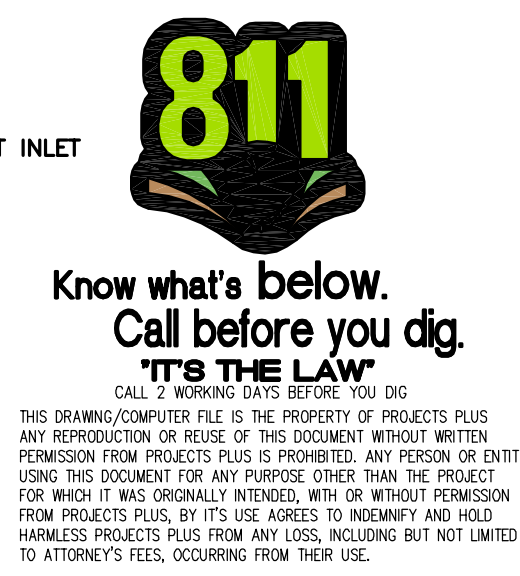
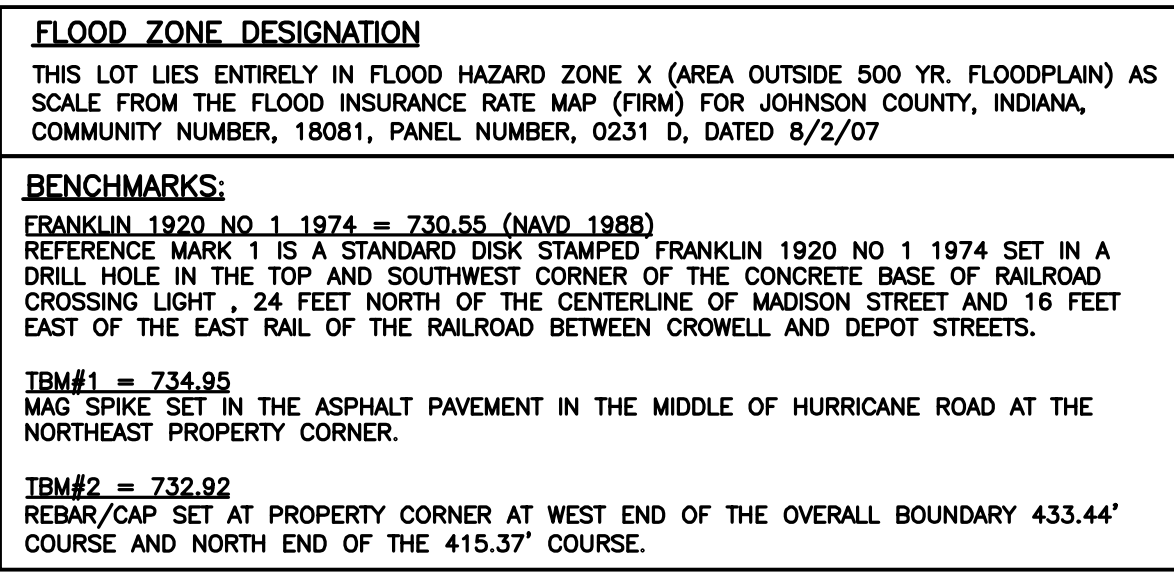
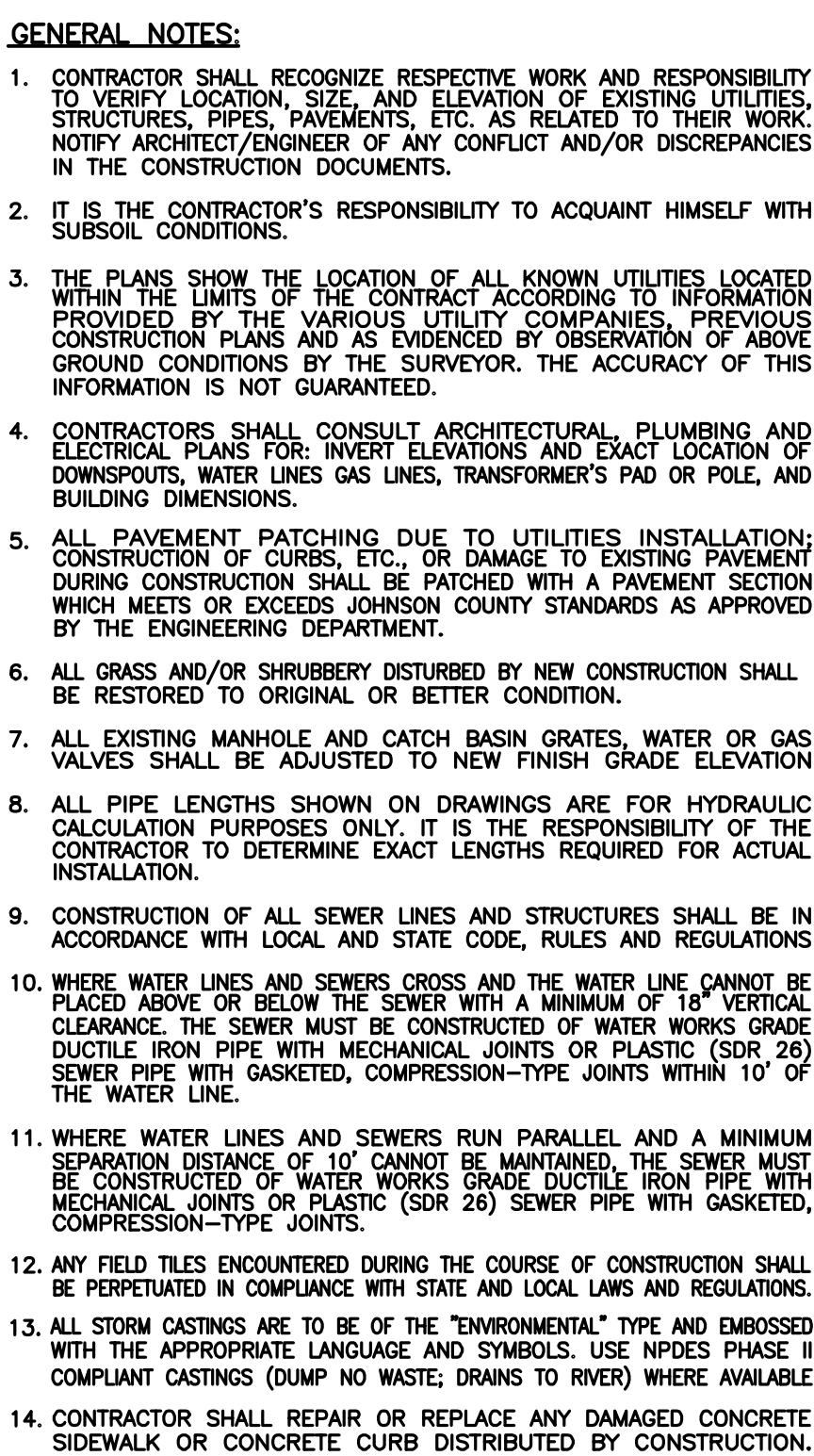
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DATE	
REVISION	
SYMBOL	
SCALE	1"=30'
PROJECT	SPECIALTY STORAGE SOLUTIONS PHASE ONE
TITLE	STORMWATER POLLUTION PREVENTION PLAN
DRAWN	JPH
CHECKED	JKS
CERTIFIED	JKS
PROJECT	SPECIALTY STORAGE SOLUTIONS PHASE ONE
CITY OF FRANKLIN, JOHNSON COUNTY, INDIANA	
PROJECT SIGN	
CONTRACTOR IS RESPONSIBLE FOR SWEEPING THE PUBLIC ROAD AND KEEPING THE ROAD CLEAR OF DEBRIS AND SEDIMENT	
PROJECTS plus	
GREENWOOD SURVEYING COMPANY	
CIVIL ENGINEERING	LAND SURVEYING
LAND PLANNING	CONSTRUCTION MANAGEMENT
2850 Fairview Plaza Suite 100 - Greenwood, Indiana 46142	
(317)-882-5003	
SEAL	
JEFFERY K. SMITH	
REGISTERED	
No. 19419	
STATE OF INDIANA	
PROFESSIONAL ENGINEER	
Jeffery K. Smith	
5/19/19	
JOB NUMBER	18009
SHEET	
C501	
DATE	
MAY 9, 2019	

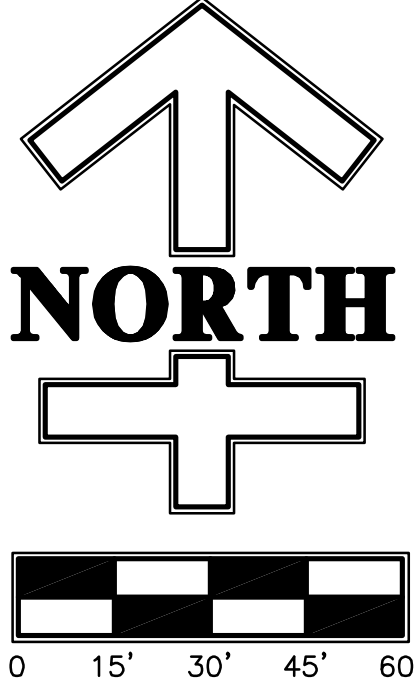


		PROJECTS <i>plus</i> GREENWOOD SURVEYING COMPANY CIVIL ENGINEERING — LAND SURVEYING LAND PLANNING — CONSTRUCTION MANAGEMENT 2650 Fairview Place Suite W — Greenwood, Indiana 46142 (317)–882–5003	
SEAL		SPECIALTY STORAGE SOLUTIONS PHASE ONE CITY OF FRANKLIN, JOHNSON COUNTY, INDIANA	
JOB NUMBER 18009		SCALE 1" = 30'	
SHEET C601		DRAWN JPH	
DATE MAY 9, 2019		CHECKED JKS	
		UTILITY PLAN	
		CERTIFIED JKS	
		DATE	



KEY	PLANT COMMON NAME	MIN. SIZE	PLANT BOTANIC NAME	QUANTITY	CATEGORY
1	SKYLINE HONEYLOCUST	2 1/2"	GLEDTISIA TRIACANTHOS	8	SHADE
2	RED MAPLE	2 1/2"	ACER RUBRUM	10	SHADE
3	SEA GREEN JUNIPER	5 GAL	JUNIPERUS CHINENSIS 'SEA GREEN'	1	EVERGREEN

LANDSCAPE LEGEND			QUANTITY
SYMBOL	REQUIREMENT		
	<p>1. PARKING LANDSCAPE PLANTING SHALL BE MODIFIED ONLY UNDER THE PLANNING DIRECTOR'S WRITTEN APPROVAL.</p> <p>2. LANDSCAPING NOT TO OBSTRUCT LINE OF SIGHT FOR MOTOR VEHICLES.</p>		
A	<p>STREET TREE – TO BE IN ACCORDANCE WITH THE MOST CURRENT CITY OF FRANKLIN SUBDIVISION CONTROL ORDINANCE 6.15.</p> <p>a. MIN. OF 2 1/2" CALIBER AT 6" FROM TOP OF ROOT BALL.</p> <p>b. NOT WITHIN 25' OF AN INTERSECTION.</p> <p>c. NOT WITHIN 10' OF HYDRANT OR LATERAL.</p> <p>d. PERMITTED TREE TYPES PER APPROVED SPECIES LIST DESCRIBED IN THE PERMITTED STREET TREE TABLE.</p>		12 TREES
B	<p>SITE INTERIOR LANDSCAPE REQUIREMENTS – TO BE IN ACCORDANCE WITH THE MOST CURRENT CITY OF FRANKLIN ZONING ORDINANCE 7.16.</p> <p>a. BROAD LEAF/ DECIDUOUS AND/OR EVERGREEN CONIFER PER THE FOLLOWING LAND TYPE:</p> <p>1. 1 FOR EVERY 1,000 S.F. OF YARD AREA MULTI FAMILY RESIDENTIAL</p> <p>2. 1 FOR EVERY 1,500 S.F. OF YARD AREA COMMERCIAL USE</p> <p>3. 1 FOR EVERY 2,500 S.F. OF YARD AREA INSTITUTIONAL USE</p> <p>4. 1 FOR EVERY 5,000 S.F. OF YARD AREA INDUSTRIAL USE</p> <p>b. ALL BROAD LEAF/ DECIDUOUS TREE MIN. OF 2 1/2" CALIBER AT 6" FROM TOP OF ROOT BALL. TREES MAY BE LOCATED IN CLUSTERS OR DISPERSED THROUGHOUT THE SITE.</p> <p>c. ALL EVERGREEN TREE MIN. OF 5' IN HEIGHT.</p> <p>d. PERMITTED TREE TYPES PER APPROVED SPECIES LIST DESCRIBED IN THE LANDSCAPE STANDARDS.</p>		4 TREES
C	<p>PARKING LOT INTERIOR TREE – TO BE IN ACCORDANCE WITH THE MOST CURRENT CITY OF FRANKLIN ZONING ORDINANCE 7.16.</p> <p>a. 1 BROAD LEAF/ DECIDUOUS PER 300 S.F. OF LANDSCAPE AREA</p> <p>b. ALL BROAD LEAF/ DECIDUOUS TREE MIN. OF 2 1/2" CALIBER AT 6" FROM TOP OF ROOT BALL.</p> <p>c. PERMITTED TREE TYPES PER APPROVED SPECIES LIST DESCRIBED IN THE LANDSCAPE STANDARDS.</p>		1 TREE
D	<p>PARKING LOT PERIMETER TREE/SHRUB – TO BE IN ACCORDANCE WITH THE MOST CURRENT CITY OF FRANKLIN ZONING ORDINANCE 7.16.</p> <p>a. 1 BROAD LEAF/ DECIDUOUS OR EVERGREEN TREE AND 1 SHRUB PER 80 L.F. OF LANDSCAPE AREA.</p> <p>b. ALL BROAD LEAF/ DECIDUOUS TREE MIN. OF 2 1/2" CALIBER AT 6" FROM TOP OF ROOT BALL.</p> <p>c. ALL EVERGREEN TREE MIN. OF 5' IN HEIGHT.</p> <p>d. ALL SHRUBS MIN. OF 18" IN HEIGHT.</p> <p>e. PERMITTED TREE TYPES PER APPROVED SPECIES LIST DESCRIBED IN THE LANDSCAPE STANDARDS.</p>		1 TREE 1 SHRUB



STREET TREE REQUIREMENTS:
1 STREET TREE PER 35 L.F.
(401 L.F./35 = 12 TREES REQ.)

SITE INTERIOR LANDSCAPE REQUIREMENT:
1 BROAD LEAF/ DECIDUOUS AND/OR EVERGREEN
CONIFER PER 5,000 S.F. OF YARD AREA
LOT SIZE: 113,692 S.F.
LOT YARD REQUIRED: 17,054 S.F. (15%)
OVERALL LOT YARD PROVIDED: 17,307 S.F.
17,054 S.F./5,000 = 4 TREES REQ.)

PARKING LOT INTERIOR LANDSCAPE REQUIREMENT:
1 BROAD LEAF/ DECIDUOUS PER 300 S.F. OF
LANDSCAPE AREA
PARKING LOT AREA: 1021 S.F.
MIN. LANDSCAPE REQUIRED: 51 S.F.
(51/300= 1 TREE REQ.)

1
EXISTING
4,800 S.F. BLDG.

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<div style="display: flex; justify-content: space-between;"> <div> <p>PROJECTS <i>plus</i></p> <div style="border: 1px solid black; padding: 5px; width: fit-content;">GREENWOOD SURVEYING COMPANY</div> <p>CIVIL ENGINEERING LAND SURVEYING LAND PLANNING CONSTRUCTION MANAGEMENT 2650 Fairview Plaza Sullie W - Greenwood, Indiana 46142 (317)-882-5003</p> </div> <div style="text-align: center;"> <p><i>Jeffery K. Smith</i> 5/9/19</p> </div> </div>						SPECIALTY STORAGE SOLUTIONS PHASE ONE CITY OF FRANKLIN, JOHNSON COUNTY, INDIANA		SCALE 1" = 30'	REVISION	DATE
		TITLE LANDSCAPE PLAN	DRAWN							
		CHECKED	JPH							
		JKS								
		CERTIFIED								
		JKS								

GREENWOOD SURVEYING COMPANY

CIVIL ENGINEERING - LAND SURVEYING
LAND PLANNING - CONSTRUCTION MANAGEMENT
2850 Fairview Place Suite W - Greenwood, Indiana 46142

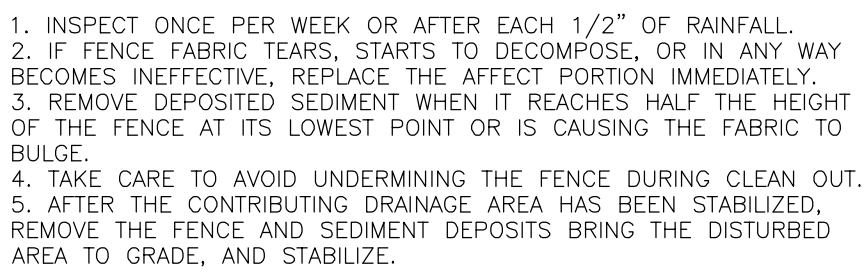
SEAL

JEFFERY K. SMITH
REGISTERED
No. 19419
STATE OF
INDIANA
PROFESSIONAL ENGINEER

Jeffery K. Smith
5/9/15

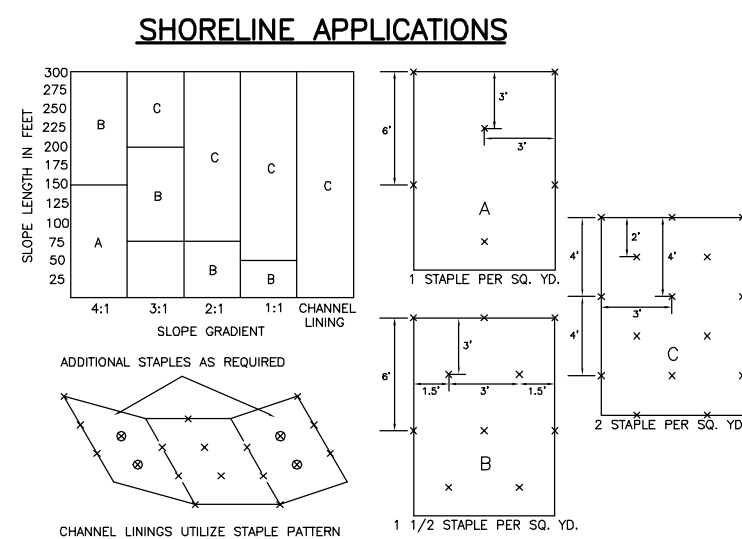
C701

DATE
MAY 9, 2019



The diagram shows a cross-section of a stormwater inlet. A rectangular concrete frame is shown with a grid of reinforcement bars (rebar) inside. A geotextile fabric is shown draped over the top of the frame, with arrows indicating 'INFLOW' from both sides. The fabric is labeled 'GEOTEXTILE FABRIC'. The frame is labeled 'PAVEMENT INLET'. A label 'INSERT BASKET GRATE PROTECT METAL FRAME OR BASKET W/ AND LENGTH TO FIT IN STON CASTING FRAME' points to the top of the frame. Below the frame, a label 'COM SHOULD BE DESIGNED TO EXCESS STORM WATER FLOW.' points to the bottom of the frame.

- TEMPORARY BASKET INSERT PROTECTION DETAIL (PAVEMENT INLET)



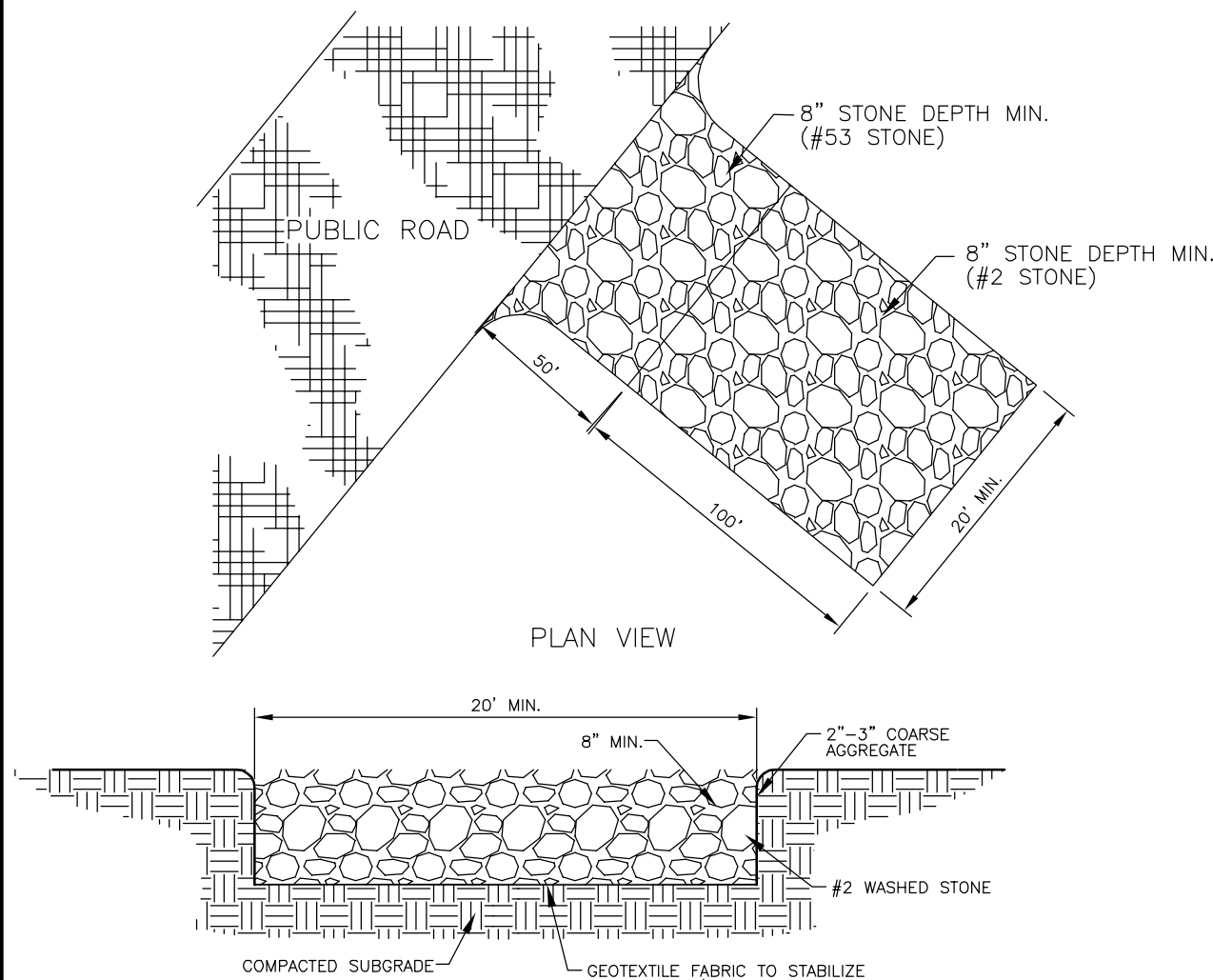
GENERAL STAPLE RECOMMENDATIONS

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

CHANNEL LININGS REQUIRED A 2.0" MINIMUM OVERLAP AT LONGITUDINAL JOINTS. SIDESLOPES SHALL REQUIRE A 6" MINIMUM OVERLAP. WHERE OVERLAPS OCCUR, THE UPSTREAM BLANKET SHALL OVERLAP THE DOWNSTREAM.

IF OTHER THAN NORTH AMERICAN GREEN EROSION CONTROL BLANKETS ARE INSTALLED FOLLOW THE INSTALLATION DIRECTIONS RECOMMENDED BY THAT PRODUCTS COMPANY.



PROFILE VIEW
TEMPORARY CONSTRUCTION ENTRANCE DETAIL

1. STONE SIZE SHALL CONFORM TO ASTM D48
SIZE #1(2" TO 3" DIA.)
2. PERIODIC STONE TOP DRESSING & WASHING
AS REQUIRED.

MATERIAL HANDLING AND SPILL PREVENTION PLAN: IN ORDER TO MINIMIZE THE RELEASE OF POTENTIAL POLLUTANTS DURING CONSTRUCTION THE CONTRACTORS SHALL IMPLEMENT THIS MATERIAL HANDLING AND SPILL PREVENTION PLAN. THE CONTRACTOR SHALL REVIEW THIS PLAN WITH ALL SUBCONTRACTORS AND REQUIRE THAT THEY IMPLEMENT THE PLAN AS WELL.

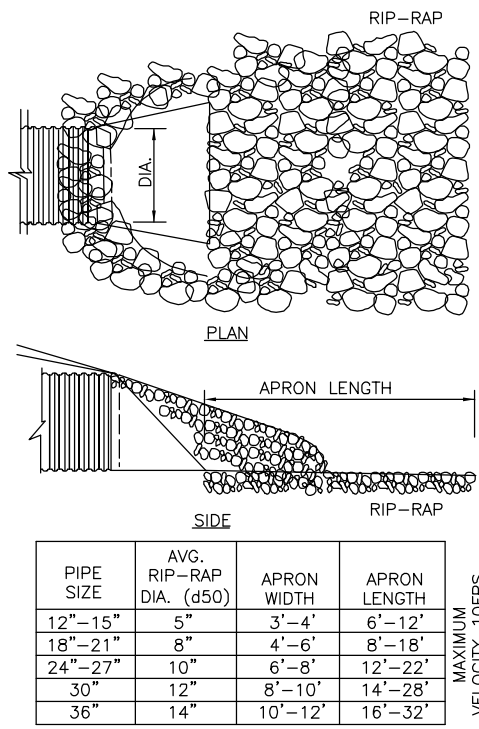
1. **CONSTRUCTION EQUIPMENT**
- a. **FUELING, LUBRICATION AND FLUIDS:** ALL OPERATIONS INVOLVING THE ADDITION OF FLUIDS TO EQUIPMENT SHOULD BE DONE AT ONE LOCATION, AS DESIGNATED BY THE GENERAL CONTRACTOR OR DEVELOPER/OWNER, SO THAT SPILLS ARE LIMITED TO ONE LOCATION ON THE SITE, WHICH WILL FACILITATE THE CLEANUP OF ANY SPILL. EQUIPMENT SHOULD BE FUELED AND LUBRICATED IN A DESIGNATED AREA, NOT A DIRT-ROADED WALKED AND STORED IN THIS DESIGNATED AREA. THIS LOCATION IS AN AREA THAT WILL NOT ALLOW SPILLED FLUIDS TO MIGRATE INTO SUBSURFACE SOILS. IN THE EVENT OF A SPILL, THE FLUID SHOULD BE IMMEDIATELY CLEANED UP AND NOT ALLOWED TO REMAIN ON THE SURFACE. FLUIDS SHOULD BE DISPOSED OF IN AN ACCEPTABLE MANNER. SPILLS ON HARD SURFACES SHOULD BE SOAKED UP BY AN APPROPRIATE MATERIAL AND THEN DISPOSED OF IN AN ACCEPTABLE MANNER. THE SPILL SHALL ALSO BE REPORTED IMMEDIATELY TO THE CONTRACTOR'S SUPERINTENDENT. IF A SPILL OF FLUIDS OCCURS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMEDIATION. THE POSSIBILITY OF FLUID SPILLS IS HIGH, SHOULD ALWAYS BE DONE OFFSITE AT A FACILITY THAT IS MORE APPROPRIATE FOR THE STORAGE OF FLUIDS. IF A SPILL OF FLUIDS OCCURS, THE CONTRACTOR SHOULD BE MOVED TO THE MAINTENANCE AND FUELING AREA, IF POSSIBLE. IF NOT AVAILABLE, SUITABLE ON SITE CONTAINERS SHOULD BE PLACED UNDER THE EQUIPMENT DURING PERIOD TO CATCH ANY SPILLED FLUIDS.
- b. **REUSABLE FLUID CONTAINERS,** SUCH AS GASOLINE CANS, SHALL BE INSPECTED FOR LEAKS EACH DAY. IF A LEAK IS DETECTED, THE CONTAINER SHOULD BE IMMEDIATELY REPAIRED OR DISPOSED IN A PROPER MANNER AND THE CONTAINER DISPOSED OF IN AN ACCEPTABLE MANNER. EMPTY CONTAINERS SHOULD BE KEPT IN A DESIGNATED AREA, NOT A DIRT-ROADED WALKED AND STORED IN THIS DESIGNATED AREA. THEIR PACKAGING SHALL BE DISPOSED OF IN A PROPER MANNER AND SHALL NOT BE LEFT ON THE SURFACE OF THE SITE.
2. **CONSTRUCTION MATERIALS AND THEIR PACKAGING**

- [illegible]

- practices. These practices shall include the use of dirt bags such as sand bags, silt bags, erosion control blankets, etc. to prevent erosion and sedimentation. These practices shall include the use of erosion control blankets, silt fences, and other erosion control devices to prevent erosion and sedimentation. These practices shall include the use of erosion control blankets, silt fences, and other erosion control devices to prevent erosion and sedimentation. These practices shall include the use of erosion control blankets, silt fences, and other erosion control devices to prevent erosion and sedimentation.

- 1) ALL DISTURBED LAWN AREAS SHALL RECEIVE PERMANENT SEEDING IMMEDIATELY.
- 2) ALL EXPOSED SOIL SHALL BE COVERED WITH MULCH OR COMPACTED THICKNESS).
- 3) TOPSOIL TO BE FERTILE, FINEGRAN, SANDY LOAM REASONABLY FREE OF SUBSOIL, GLAY CLUMPS, STONES LARGER THAN 3/4" EXCESSIVE QUANTITIES OF SMALL STONE/GRAVEL, BRUSH AND OTHER LITTER
- 4) SOLVE ANY SURFACE OR SUBSURFACE DRAINAGE PROBLEMS, CONSTRUCT PERMANENT EROSION CONTROL MEASURES
- 5) PERFORM THE MAJOR FINISH, SHAPING AND SMOOTHING OF GULLIES OR ERODED AREAS.
- 6) HAVE TOPSOIL TESTED TO CHECK PH AND NUTRIENT LEVELS. PROVIDE FERTILIZER AND SOIL AMENDMENTS AS REQUIRED. HAVE SOIL TESTED TO CHECK PH AND NUTRIENT LEVELS TO DETERMINE NEED FOR FERTILIZERS.
- 7) FERTILIZER AND SOIL AMENDMENTS TO BE APPLIED TO TOP 2-3 INCHES OF THE TOPSOIL WITH A SMALL DISK HARROW OR RAKE OPERATED ACROSS THE SLOPE AS POSSIBLE.
- 8) ROLL THE TOPSOIL WITH A WATER BALLAST ROLLER WEIGHING 100 TO 300 POUNDS DEPENDING ON SLOPE WITH TOPSOIL IN A SEMI-DRY CONDITION IN TWO OPPOSITE DIRECTIONS (RIGHT ANGLES).

- 1) SOIL SEED BED TO BE PREPARED TO A DEPTH OF 2" BY RAKING OR HARROWING. PROVIDE A LIGHT LAYER OF STRAW OR HAY MATTER AT A RATE OF 2 TONS PER ACRE. APPLY TRICKLE TO STABILIZE MULCH.
- 2) SEED TOLERANT RELATIVELY MOIST SOIL MUST BE ESTABLISHED.
- 3) ALL AREAS THAT DO NOT MEET ACCEPTABLE SEED GERMINATION AT 14 DAY INTERVALS UNTIL ACCEPTABLE STANDBY OF GRASS IS ASSURED.
- 4) ALL AREAS SHALL BE GUARANTEED TO HAVE A FULL UNIFORM STAND OF ACCEPTABLE GRASS AT END OF 14 DAY INTERVALS. ANY AREAS THAT DO NOT MEET ACCEPTABLE STAND BY DAY 28 OF 14 DAY INTERVALS SHALL BE RESEED. ANY AREAS NOT SEED WILL BE REWORKED UNTIL AN ACCEPTABLE STAND OF GRASS IS
- 5) ALL AREAS TO BE MAINTAINED UNTIL FINAL INSPECTION BY LANDSCAPE DESIGNER BUT NOT LESS THAN 14 DAY INTERVALS. ALL AREAS SHALL BE MAINTAINED TO PREPARE FOR FINAL CULTEVALATION. MULCHING, MOWING AND ALL OTHER NECESSARY OPERATIONS REQUIRED FOR PREPARE FOR ESTABLISHMENT.



DATED OCTOBER 2007

1. INSTALL AT LOCATION SHOWN PLANS. ENSURE SMOOTH TRANSITION TO SURROUNDING GRADE. INSTALL NON-WOVEN NEEDLE PUNCHED GEOTEXTILE FABRIC ON COMPACTED SUBGRADE PRIOR TO INSTALLATION OF APRON.
2. INSPECT ONCE PER WEEK OR AFTER EACH RAIN EVENT. CHECK FOR STONE DISPLACEMENT, REPLACE AS NECESSARY. CHECK FOR PIPE UNDERCUTTING AND EROSION SCOURING, REPAIR AS NEEDED.
3. REFER TO CHAPTER 7 OF THE INDIANA STORM WATER QUALITY MANUAL, DATED,

ANNUAL RYEGRASS

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

NON-IRRIGATED

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC


-  IRRIGATION NEEDED DURING THIS PERIOD, TO CONTROL EROSION AT TIMES OTHER THAN IN THE SHADED AREAS, USE MULCH
- * LATE SUMMER SEEDING DATES MAY BE EXTENDED 5 DAYS IF MULCH IS APPLIED.
 - ** INCREASE SEEDING APPLICATION BY 50%

FIGURE 5-3

TEMPORARY SEEDING:			
KIND OF SEED	1000 SQ.FT.	ACRE	REMARKS
WHEAT OR RYE	3.5 LBS.	2 BU.	COVER SEED 1" TO 1-1/2" DEEP
SPRING OATS	2.3 LBS.	3 BU.	COVER SEED TO 1" DEEP
ANNUAL RYEGRASS	1 LB.	40 LBS.	COVER SEED TO 1/4" DEEP

* NOT NECESSARY WHERE MULCH IS APPLIED.

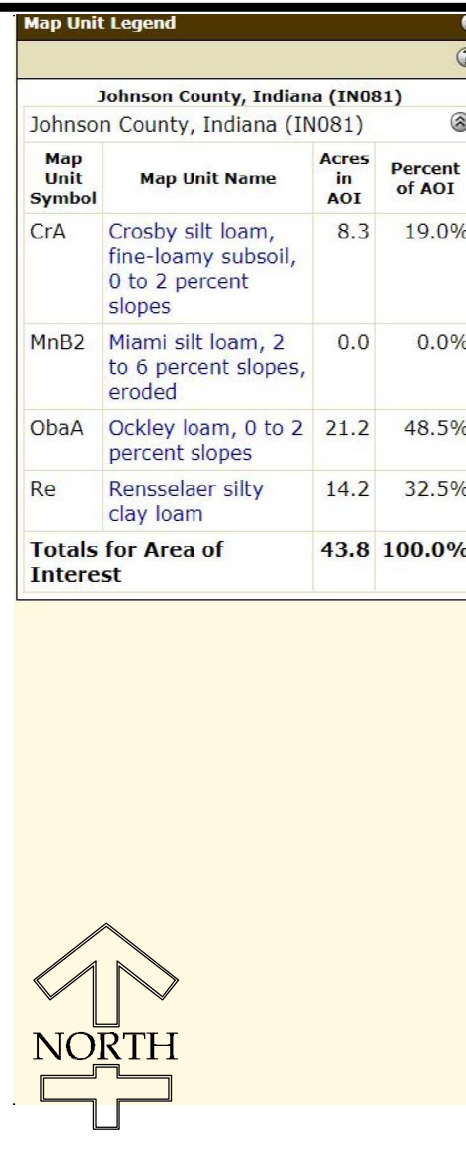
Figure 1: Details of Filter Log Installation. The figure includes four diagrams: 'SECTION' and 'ELEVATION' for 'UNTRENCHED INSTALLATION', and 'SECTION' and 'ELEVATION' for 'ENTRENCHED INSTALLATION'. The 'UNTRENCHED' diagrams show a filter log (3 in. diameter) with a 45° filter loss area, a 12 in. trench, and a 2 in. x 2 in. trench. The 'ENTRENCHED' diagrams show a filter log (3 in. diameter) with a 45° filter loss area, a 12 in. trench, and a 2 in. x 2 in. trench. The 'ELEVATION' diagrams show the filter log (3 in. diameter) with a 45° filter loss area, a 12 in. trench, and a 2 in. x 2 in. trench. The 'ELEVATION' diagrams also show the filter log (3 in. diameter) with a 45° filter loss area, a 12 in. trench, and a 2 in. x 2 in. trench. The 'ELEVATION' diagrams also show the filter log (3 in. diameter) with a 45° filter loss area, a 12 in. trench, and a 2 in. x 2 in. trench.

2. NOTIFY THAT MAY INTERFERE WITH PROPER FUNCTION OF FILTER LOG.
3. FILL LOG NETTING UNIFORMLY WITH COMPOST OR OTHER APPROVED BIODEGRADABLE MATERIAL TO DESIRED DEPTH.
4. INSTALL FILTER LOGS PERPENDICULAR TO THE FLOW DIRECTION AND PARALLEL TO THE SLOPE, WITH THE DOWNSTREAM END OF EACH LOG DOWNHILL. PROVIDE A MINIMUM 12" GAP BETWEEN EACH END TO PREVENT EPPHAPS.
5. PROVIDE PRE-INSTALLED INSTALLATION BLOW OR HAND PLACE MULCH OR COMPOST ON UPHILL SIDE OF THE SLOPE ALONG LOG.
6. STAKE FILTER LOG EVERY FEET OR CLOSER ALONG ENTIRE LENGTH OF LOG OR TRENCH LOG INTO GROUND AT END OF EACH INCH AND STAKE LOGS 8 FEET OR CLOSER.
7. USE STAKES WITH A MINIMUM NOMINAL CROSS SECTION OF 2X2 INCH AND OF SUFFICIENT LENGTH TO ATTAIN AN ANGLE OF 45 DEGREES TO THE SLOPE.
8. WHEN MORE THAN ONE LOG IS NEEDED, OVERLAP ENDS 12 INCHES MINIMUM AND STAKE.
9. WHEN LOGS ARE USED TO PREVENT EPPHAPS, STAKE LOGS AT 8 FEET OR CLOSER TO LOGS AND REPLACE FILTER LOGS IF TORN, BENEFICIAL FILTER LOG IS CONTAMINATED OR DISLOCATING, REPLACE CLOSURE LOGS IF TORN, BENEFICIAL FILTER LOG IS CONTAMINATED OR DISLOCATING.
10. PROVIDE PRE-INSTALLED ESTABLISHMENT IN ACCORDANCE WITH SECTION 10.00, PLANTING AND MAINTENANCE.

EMERGENCY RESPONSE TO ANY LIFE THREATENING PROBLEM	911
CITY OF FRANKLIN FIRE DEPARTMENT	888-736-3650
CITY OF FRANKLIN POLICE DEPARTMENT	317-736-3670
CITY OF FRANKLIN MS4	317-346-1212
INDIANA DEPARTMENT OF NATURAL RESOURCES	812-477-8773
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT	317-233-7745
JOHNSON COUNTY SOIL AND WATER	317-342-5594

THIS PLAN TO BE USED FOR EROSION CONTROL PURPOSES ONLY. THE CITY ENGINEER AND MS4/EROSION CONTROL INSPECTOR HAS THE RIGHT TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES IN THE FIELD AS CONDITIONS WARRANT.

ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE INDIANA STORM WATER QUALITY MANUAL DATED OCTOBER 2007 BY THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (IDEM).



EROSION CONTROL REQUIREMENTS
FOR COMPLIANCE WITH IDEM GENERAL PERMIT RULES FOR
STORM WATER RUNOFF FROM CONSTRUCTION SITES

- ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE INDIANA STORM WATER QUALITY MANUAL DATED OCTOBER 2007 BY THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT.
- THE EROSION CONTROL MEASURES INCLUDED IN THIS PLAN SHALL BE INSTALLED PRIOR TO INITIAL LAND DISTURBANCE ACTIVITIES OR AS SOON AS PRACTICAL. SEDIMENT SHALL BE PREVENTED FROM DISCHARGING FROM THE SITE INTO ANY ADJACENT WATERWAY, INCLUDING BUT NOT LIMITED TO: STREAMS, DITCHES, CREEKS, RIVERS, LAKE ERIE, AND LAKES. EROSION CONTROL MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO: STRAW BALE, SEDIMENT BASINS, ETC. AS SHOWN IN THIS PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AT THE OUTFALL OF THE STORM SEWER SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES WITHIN THE PROPOSED DETENTION BASIN. SHALL BE UTILIZED AS A SEDIMENT BASIN DURING CONSTRUCTION FOR AS LONG AS PRACTICAL.
3. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED AND MONITORED. SEDIMENTATION WITH FILTER BAGS, OR EQUIVALENT BARRIERS SHALL BE MAINTAINED ON THIS PLAN.
4. EXCEPT AS SHOWN ON THIS PLAN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING WEATHER CONDITIONS OR OTHER CIRCUMSTANCES BEYOND THE CONTROL OF THE CONTRACTOR / DEVELOPER THAT MAY CAUSE EROSION OF THE DETENTION BASIN. THE CONTRACTOR SHALL ADVISE THE CITY OF INDIANAPOLIS OF ANY EROSION OF THE SITE. THE SEVEN DAYS OF THE LAST LAND DISTURBING ACTIVITY AT THE SITE. THE SITE SHALL BE STABILIZED BY SEEDING, SOODING, MULCHING, COVERING, OR OTHER EQUIVALENT EROSION CONTROL MEASURES.
5. THIS EROSION CONTROL PLAN SHALL BE IMPLEMENTED ON ALL DISTURBED AREAS WITHIN THE CONSTRUCTION SITE. ALL MEASURES INVOLVING EROSION CONTROL PRACTICES SHALL BE INSTALLED UNDER THE CLOSE SUPERVISION OF QUALIFIED PERSONNEL EXPERIENCED IN EROSION CONTROL, AND FOLLOWING THE APPROVED METHODS AND SPECIFICATIONS OF THE CITY OF INDIANAPOLIS.
6. DURING THE PERIOD OF CONSTRUCTION ACTIVITY, ALL SEDIMENT BASINS AND OTHER EROSION CONTROL MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND COORDINATE THE TRANSFER OF REQUIRED MAINTENANCE PERSONNEL.
7. PUBLIC OR PRIVATE ROADWAYS SHALL BE KEPT CLEARANCE OF ACCUMULATED SEDIMENT; BULK CLEARING OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE THE REMOVAL OF ANY AREA OF ROADWAY OR DRIVEWAY. EXCESS SEDIMENT TO THE POINT OF LIKELY EROSION OR OTHER SUITABLE LOCATION.
8. THE CONTRACTOR SHALL CONTROL WASTES, GARBAGE, DEBRIS, WASTEWATER AND OTHER SUBSTANCES ON THE SITE IN SUCH A WAY THAT THEY SHALL NOT BE TRANSPORTED OR DISCHARGED INTO ANY ADJACENT WATERWAY, WATER RUNOFF, OR OTHER FORCES. PROPER DISPOSAL OR MANAGEMENT OF WASTES, GARBAGE, DEBRIS, WASTEWATER AND OTHER SUBSTANCES TO THE NATURE OF THE WASTE OR MATERIAL IS REQUIRED.

	EROSION CONTROL CONSTRUCTION SEQUENCE SCHEDULING		
CONSTRUCTION PHASE (SPECIFIC ACTIVITIES OR EROSION CONTROL PRACTICES)	CONSTRUCTION SCHEDULE CONSIDERATIONS	MONITORING AND MAINTENANCE SCHEDULE	CONSTRUCTION START DATE (APPROX. DATE)
PRE-CONSTRUCTION ACTIONS (EVALUATION/PROTECTION OF IMPORTANT SITE CHARACTERISTICS)	BEFORE CONSTRUCTION, EVALUATE, MARK, AND PROTECT IMPORTANT TREES AND ASSOCIATED ROOTING ZONES, SENSITIVE AREAS (e.g., WETLANDS), AND PROTECT ON-SITE SEPTIC SYSTEMS. INSTALL PERIMETER SIGNS AND VEGETATION SUITABLE FOR FILTER STRIPS, ESPECIALLY IN PERMETER AREAS.	ESTABLISH AND EVALUATE PROJECT ASSIGN SUPERINTENDENT WHO WILL BE IN CHARGE OF OVERSEEING EROSION FACILITIES.	WEEK OF (LASTING APPROX. 1 WEEK)
CONSTRUCTION ACCESS (CONSTRUCTION ENTRANCES, CONSTRUCTION ROUTES, EQUIPMENT PARKING AREAS)	STABILIZE BARE AREAS IMMEDIATELY WITH GRAVEL AND TEMPORARY VEGETATION PRIOR TO COMMENCING WORK.	INSPECT CONSTRUCTION ENTRANCE WEEKLY AND AFTER EACH 1/2" RAIN EVENT AND HEAVY USEAGE. RESHAPE AND TOP DRESS AS NEEDED TO PREVENT REMOVAL OF EROSION SEDIMENT BY WHEELS OR GRASSING. IF FLUSHING PRODUCE ADEQUATE SEDIMENT TRAPS FOR WATER REMOVAL.	WEEK OF (LASTING APPROX. 1 WEEK)
SEDIMENT BARRIERS AND TRAPS (SEDIMENT BASINS, SILT FENCES, OUTLET PROTECTION)	INSTALL PRINCIPAL BASINS AFTER CONSTRUCTION SITE IS ASSESSED. INSTALL ADDITIONAL TRAPS AND BARRIERS AS NEEDED DURING GRADING. CONTRACT DETENTION BASINS AFTER CONSTRUCTED, INSTALL PERIMETER SNAILES.	INSPECT THE FABRIC BARRIER WEEKLY AND AFTER EACH 1/2" RAIN EVENT, AND MAKE NEEDED REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE POOL AREA TO PROVIDE STORAGE FOR THE NEXT STORM AVOID DAMAGING OR UNDERCUTTING THE FABRIC DURING SEDIMENT REMOVAL. WHEN THE CONFINING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE AND PROPERLY DISPOSE OF ALL CONSTRUCTION MATERIAL AND SCUMMED GRADE THE AREA TO THE ELEVATION OF THE TOP OF THE INLET, THEN STABILIZE.	WEEK OF (LASTING APPROX. 1 WEEK)
RUNOFF CONTROL (DIVERSIONS, PERIMETER DITCHES, WATER BARS, OUTLET PROTECTION)	INSTALL PRACTICES AFTER PRINCIPAL SEDIMENT TRAPS ARE INSTALLED BUT BEFORE SITE GRADING. INSTALL ADDITIONAL RUNOFF CONTROL MEASURES DURING GRADING AS REQUIRED.	INSPECT THE SEDIMENT BASIN WEEKLY AND AFTER EACH 1/2" RAIN EVENT. REMOVE AND PROPERLY DISPOSE OF SEDIMENT WHEN IT ACCUMULATES TO ONE-HALF THE DESIGN VOLUME OF THE BASIN. IF A SEDIMENT BASIN IS PERIODICALLY CHECK THE EMWAINMENT, EMERGENCY SUMPING, AND OUTLET FOR EROSION DAMAGE, PILING, SETTLING, SEEPAGE, OR SLUMPING ALONG THE TOP OR AROUND THE BARREL, AND REPAIR IMMEDIATELY. REMOVE TRASH AND OTHER DEBRIS FROM THE RISER, EMERGENCY SUMPING, AND POOL AREA. CLEAN OR REPLACE THE GRVELL AROUND THE RISER IF THE SEDIMENT POOL DOES NOT DRAIN PROPERLY. REMOVE THE BASIN AFTER THE DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED, INSPECTED, AND APPROVED TO SO BY DRAINING AWAY WATER, REMOVING THE SEDIMENT TO A DESIGNATED DISPOSAL AREA, SMOOTHING THE SITE TO BLEND WITH THE SURROUNDING AREA, THEN STABILIZING.	WEEK OF (LASTING APPROX. 1 WEEK)
RUNOFF CONVEYANCE SYSTEMS (STABILIZED STREAMBANKS, STORM SEWER DRAINS, INLET AND OUTLET PROTECTION, OPEN CHANNELS)	WHERE NECESSARY, STABILIZE STREAMBANKS AS EARLY AS POSSIBLE. INSTALL PERMANENT CONVEYANCE SYSTEM WITH RUNOFF CONTROL MEASURES. INSTALL REMAINDER OF SYSTEM AFTER GRADING.	PLACEMENT STORM SEWER DRAINS, INLETS AND PIPES TO BE IMMEDIATELY FOLLOWED BY TRENCH PROTECTION MEASURES AND TEMPORARY SEDIMENT TRAPS. OPEN CHANNEL DRAINAGE SWALES TO BE IMMEDIATELY FOLLOWED BY PROTECTION OF EROSION CONTROL BARRIERS. INSPECT TEMPORARY SEDIMENT TRAPS WEEKLY AND AFTER EACH STORM EVENT, AND IMMEDIATELY REPAIR ANY EROSION AND PILING DAMAGES. REMOVE SEDIMENT WHEN IT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH. REPLACE SPILLWAY GRAVEL PAVING IF CLOGGED. INSPECT VEGETATION, AND RE-SEED IF NECESSARY. CHECK THE SPILLWAY DEPTH PERIODICALLY TO ENSURE A MINIMUM OF 1 1/2'-4" DEPTH FROM THE LOWEST POINT OF SETTLED DRAINAGE TO HIGHEST POINT OF THE SPILLWAY CREST, AND FILL ANY LOW AREAS TO MAINTAIN FLOW LINE ELEVATION.	WEEK OF (LASTING APPROX. 4 WEEKS)
LAND CLEARING AND GRADING (CUTTING/FILLING, GRADING DRAINS, SEDIMENT TRAPS, BARRIERS, DIVERSIONS, SURFACE PROGRESS)	BEGIN MAJOR CLEARING AND GRADING AFTER INSTALLING THE KEY SEDIMENT AND RUNOFF MEASURES. CLEAR BORDERS AND UPODRA AREAS AS NEEDED. INSTALL ADDITIONAL CONTROL MEASURES AS GRADING PROGRESSES.	INSPECT NEWLY TOPSOILED AREAS WEEKLY UNTIL VEGETATION IS ESTABLISHED. REPAIR ERODED OR DAMAGED AREAS AND REVEGETATE.	WEEK OF (LASTING APPROX. 4 WEEKS)
SURFACE STABILIZATION (TEMPORARY AND PERMANENT SEEDING, MULCHING, SOODING, RP-104)	APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS WHERE WORK IS DELAYED OR COMPLETED.	INSPECT WEEKLY AND ESPECIALLY AFTER EACH 1/2" RAIN EVENT, UNTIL THE STAND IS SUCCESSFULLY ESTABLISHED. (CHARACTERISTICS OF A STAND INCLUDE: VISIBLE, VIGOROUS DARK GREEN OR BROWN-GREEN SEEDLINGS; UNIFORM DENSITY WITH NURSE PLANTS; LEGUMES, AND GRASSES WELL INTER- MIXED; GRASS LEAVES AND THE PERENNIALS REMAINING GREEN THROUGHOUT THE SUMMER, AT LEAST AT THE PLANT BASE). PLAN TO ADD FERTILIZER THE FOLLOWING GROWING SEASON ACCORDING TO SOIL TEST RECOMMENDATIONS. REPAIR DAMAGED, BARE, OR SPARSE AREAS BY FILLING ANY GULLIES, RE-SEEDING, OVER-OR RE-SEEDING, AND MULCHING. IF PLANT COVER IS SPARSE OR PATCHY, REVIEW THE PLANT MATERIALS CHOSEN, SOIL FERTILITY, MOISTURE CONDITION, AND MULCHING, THEN REPAIR THE AFFECTED AREA EITHER BY OVER-SEEDING OR BY RE-SEEDING AND MULCHING AFTER RE- PREPARING THE SEEDBED. IF VEGETATION FAILS TO GROW, CONSIDER SOIL TESTING TO DETERMINE ADOPT OR NUTRIENT DEFICIENCY PROBLEMS. IF ADDITIONAL FERTILIZATION IS NEEDED TO GET A SATISFACTORY STAND, DO SO ACCORDING TO SOIL TEST RECOMMENDATIONS. DO NOT ALLOW STORM EVENTS TO CHECK FOR MOVEMENT OF MULCH OR FOR EROSION. IF WASHOUT, BROWAGE, OR EROSION IS PRESENT, REPAIR THE SURFACE, THEN RE-SEED, RE-MULCH AND, IF APPLICABLE, INSTALL NEW NETTING. CONTINUE INSPECTIONS UNTIL VEGETATION IS FIRMLY ESTABLISHED. INSPECT PERIODICALLY FOR DISPLACED ROCK MATERIAL, SLUMPING, AND EROSION AT EDGE, ESPECIALLY DOWNSTREAM OR DOWN SLOPE. PROPERLY DESIGNED AND INSTALLED SPRAY USUALLY REQUIRES VERY LITTLE MAINTENANCE IF PROPERLY REPAIRED.	WEEK OF (LASTING APPROX. 2 WEEKS)
UTILITY / PAVEMENT CONSTRUCTION (UTILITIES, PAVING)	INSTALL NECESSARY DRAINAGE AND SEDIMENT CONTROL PRACTICES AS WORK TAKES PLACE.	DURING VEGETATIVE ESTABLISHMENT, INSPECT WEEKLY AND AFTER EACH 1/2" RAIN EVENT FOR ANY EROSION BELOW THE BLANKET. IF ANY AREA SHOWS EROSION, FOLLOWBACK THAT PORTION OF THE BLANKET COVERING IT. ADD SOIL, RE-SEED THE AREA, AND RE- LAY AND STAPLE THE BLANKET AFTER VEGETATIVE ESTABLISHMENT. CHECK THE TREATED AREA PERIODICALLY.	WEEK OF (LASTING APPROX. 6 WEEKS)
BUILDING CONSTRUCTION	INSTALL NECESSARY DRAINAGE AND SEDIMENT CONTROL PRACTICES AS WORK TAKES PLACE.	DURING VEGETATIVE ESTABLISHMENT, INSPECT WEEKLY AND AFTER EACH 1/2" RAIN EVENT FOR ANY EROSION BELOW THE BLANKET. IF ANY AREA SHOWS EROSION, FOLLOWBACK THAT PORTION OF THE BLANKET COVERING IT. ADD SOIL, RE-SEED THE AREA, AND RE- LAY AND STAPLE THE BLANKET AFTER VEGETATIVE ESTABLISHMENT. CHECK THE TREATED AREA PERIODICALLY.	WEEK OF (LASTING APPROX. 3 YEARS)
LANDSCAPING AND FINAL STABILIZATION (TOPSOIL, TREES, AND SHRUBS, PERMANENT SEEDING, MULCHING, SOODING, RP-104)	STABILIZE ALL OPEN AREAS INCLUDING BORDERS AND SPOT AREAS. REMOVE TEMPORARY CONTROL MEASURES AND STAPLE PERMANENT SEED ALL BARE SOIL AREAS.	INSPECT WEEKLY AND AFTER EACH 1/2" RAIN EVENT, UNTIL THE STAND IS SUCCESSFULLY ESTABLISHED. REPAIR DAMAGED, BARE, OR SPARSE AREAS BY FILLING ANY GULLIES, RE-SEEDING, OVER-OR RE-SEEDING, AND MULCHING. IF PLANT COVER IS SPARSE OR PATCHY, REVIEW THE PLANT MATERIALS CHOSEN, SOIL FERTILITY, MOISTURE CONDITION, AND MULCHING, THEN REPAIR THE AFFECTED AREA EITHER BY OVER-SEEDING OR BY RE-SEEDING AND MULCHING AFTER RE- PREPARING THE SEEDBED. IF ADDITIONAL FERTILIZATION IS NEEDED TO GET A SATISFACTORY STAND, DO SO ACCORDING TO SOIL TEST RECOMMENDATIONS.	WEEK OF (LASTING APPROX. 2 WEEKS)
MAINTENANCE – INSPECT PRACTICES ONCE A WEEK, A AFTER EACH 1/2" RAIN EVENT.			

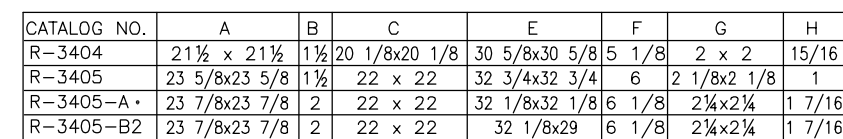
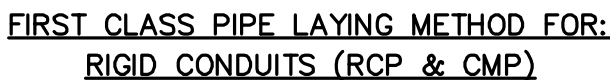
MAINTENANCE—INSPECT PRACTICES ONCE A WEEK, & AFTER EACH 1/2" RAIN EVENT



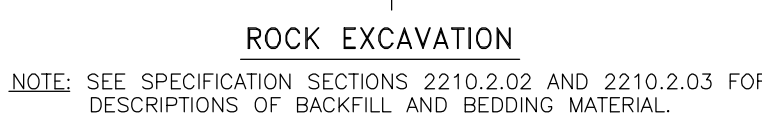
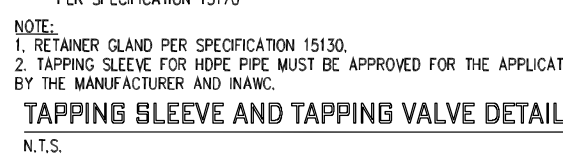
STREET DETAILS

GENERAL NOTES:

3. WHEN THE INTERSECTION IS NOT SIGNALIZED, SIDEWALK RAMP SHALL BE PLACED AT THE CORNER OF THE INTERSECTION. WHEN THE INTERSECTION IS SIGNALIZED, SIDEWALK RAMP SHALL BE PLACED ON THE DESIGNATED STREET AND ARTERIAL STREET SHALL BE DISREGARDED.
4. CURB FOR RAMP SHALL BE TO BE LOCATED AS SHOWN ON THE PLANS OR AS DIRECTED.
5. RAMP SHALL BE PROVIDED AT ALL CORNERS OF STREET INTERSECTION. SIDEWALK RAMP SHALL BE PROVIDED AT ALL INTERSECTIONS AND CURB RAMP SHALL ALSO BE PROVIDED AT WALK LOCATIONS IN MID-BLOCK.
6. SIDEWALK RAMP SHALL BE PROVIDED AT ALL INTERSECTIONS OF HOSPITALS, MEDICAL CENTERS, AND ATHLETIC STADIUMS.
7. SURFACE TEXTURE OF THE RAMP SHALL BE THAT OBTAINED BY A STANDARD BROOMING, TRAFFIC TRAIL, OR OTHER TYPE OF RAMP.
8. SIDEWALKS SHALL BE BANKED WHERE THE DRIVEWAY OF THE RAMP IS EXTENDED ACROSS THE BANK.
9. CURB SHALL BE TAKEN TO ASSURE A FIRMER GRADE ON ALL RAMP TYPES AND ON SIDEWALKS.
10. DRAINAGE STRUCTURES SHALL NOT BE PLACED IN LINE WITH RAMP EXCEPT WHERE EXISTING DRAINAGE STRUCTURES ARE BEING REPLACED. THE CONSTRUCTION OF THE RAMP SHALL TAKE PRECEDENCE OVER LOCATION OF DRAINAGE STRUCTURE.
11. THE NORMAL GUTTER LINE PROFILE SHALL BE MAINTAINED THROUGHOUT THE LENGTH OF THE RAMP.
12. EXPANSION JOINT FOR THE RAMP SHALL BE A MINIMUM 1/2" WIDE.
13. THE TOP OF THE JOINT FLARE FOR RAMP TYPES SHALL BE FLUSH WITH ADJACENT SIDEWALK.
14. CROSSSLOPE AND SLOPE LINE MARKINGS, IF USED, SHALL BE SLO LOCATED AS TO STOP TRAFFIC SHOR OF RAMP CROSSINGS.
15. SLOPE OF RAMP MAY BE MODIFIED WHEN FIELD CONDITIONS WARRANT AND WHEN APPROVED BY THE ENGINEER.



HEAVY DUTY
R-3404-5 GUTTER INLET FRAMES AND GRATES



TRENCH BACKFILL MATERIALS

WATER DETAILS

SITE WORK GENERAL NOTES AND SPECIFICATIONS										DATE		REVISION					SYMBOL					SCALE					PROJECT					TITLE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
GENERAL: WHEREVER A CONFLICT OR DEFICIENCY OCCURS BETWEEN THE CONSTRUCTION STANDARDS AND SPECIFICATIONS ADOPTED BY THE CITY OF FRANKLIN PLANNING AND ENGINEERING DEPARTMENTS, THE HIGHER OR MORE RESTRICTIVE STANDARD OR SPECIFICATION SHALL APPLY.																						NONE					DRAWN					JPH					CHECKED					JKS					CERTIFIED					JKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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A. NOTICES AND PERMITS 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING OR VERIFYING THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY AND STATE AGENCIES PRIOR TO STARTING CONSTRUCTION. 2. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES IN THE VICINITY OF THE CONSTRUCTION AREA PRIOR TO STARTING ANY CONSTRUCTION. 3. IT SHALL BE THE CONTRACTORS RESPONSIBILITY FOR NOTIFICATION AND COORDINATION OF ALL CONSTRUCTION WITH THE RESPECTIVE UTILITY COMPANIES, PRIOR TO STARTING ANY CONSTRUCTION. 4. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER AND CONTRACTOR TO MAINTAIN QUALITY CONTROL THROUGHOUT THE PROJECT; FAILURE TO DO SO MAY RESULT IN REMOVAL AND REPLACEMENT OF THE DEFECTIVE WORK. IT IS RECOMMENDED THAT THE DEVELOPER HAVE A QUALIFIED INSPECTOR ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION. 5. IT IS ESSENTIAL THAT THE WORK TO BE DONE IN CONJUNCTION WITH THIS PROJECT SHALL BE INSTALLED ACCORDING TO THESE SPECIFICATIONS. THE ENGINEER WILL BE REQUIRED TO CERTIFY TO CERTAIN PORTIONS OF THIS PROJECT UPON COMPLETION, THEREFORE, IT IS NECESSARY TO OBTAIN APPROVAL AND ACCEPTANCE BY THE CITY OF FRANKLIN PLANNING AND ENGINEERING DEPT. THAT CONSTRUCTION WAS DONE IN COMPLIANCE WITH THESE PLANS AND SPECIFICATIONS.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						