

SITE DEVELOPMENT PLANS

NORFOLK-SOUTHERN RR CROSSINGS

FOR

EFFINGHAM COUNTY BOARD OF COMMISSIONERS
601 NORTH LAUREL STREET
SPRINGFIELD, GEORGIA 31329
TELEPHONE NO. (912) 754-2123



DATE

CHAIRMAN AT LARGE
WESLEY CORBITT

COMMISSIONERS

DISTRICT 1	FOREST FLOYD
DISTRICT 2	VERA JONES
DISTRICT 3	JAMIE DELOACH
DISTRICT 4	REGINALD "REGGIE" S. LOPER, SR.
DISTRICT 5	PHIL KIEFFER



VICINITY MAP
NOT TO SCALE


INDEX OF DRAWINGS

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GENERAL NOTES:

- CONTRACTOR WILL BE REQUIRED TO ATTEND A PRE-CONSTRUCTION CONFERENCE WITH THE GOVERNMENTAL AGENCY IN CHARGE OF THE PROJECT.
- CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND INSPECTIONS AS REQUIRED FOR APPROVAL OF THE WORK WITH THE GOVERNMENTAL AGENCY WITH JURISDICTION.
- CONTRACTOR WILL BE RESPONSIBLE FOR COST OF AND COORDINATION WITH LOCAL UTILITY COMPANIES OR AGENCIES FOR RELOCATION OF, OR CONNECTION TO, ALL EXISTING UTILITIES INCLUDING POWER AND TELEPHONE POLES AND WIRES.
- ALL ELEVATIONS ARE BASED ON MEAN SEA LEVEL DATUM. (NAVD 88)
- REMOVAL AND REPLACEMENT OF UNSUITABLE SUBGRADE MATERIAL WILL BE PAID FOR ON A CUBIC YARD BASIS IN PLACE MEASUREMENT, AT SUCH AUTHORIZED PRICE PER CUBIC YARD, AS AUTHORIZED BY THE ENGINEER.
- SUBGRADE WILL BE COMPACTED FOR A DEPTH OF 24" EXTENDING 24" BEYOND PAVEMENT EDGES, TO A MINIMUM OF 98% STANDARD PROCTOR DENSITY AS MEASURED BY A.A.S.H.T.O. METHOD T-99. 9.
- THE CONTRACTOR SHALL KEEP ACCURATE RECORDS FOR "AS BUILTS" PURPOSES AND PROVIDE THIS INFORMATION TO THE ENGINEER AT THE COMPLETION OF THE PROJECT. IF THE CONTRACTOR FAILS TO FURNISH THIS INFORMATION, THE ENGINEER WILL OBTAIN THE NECESSARY INFORMATION AND CHARGE THE CONTRACTOR FOR THE SERVICES. THE ENGINEER WILL CHECK INFORMATION PROVIDED BY THE CONTRACTOR FOR ACCURACY. AS BUILT INFORMATION INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING: ALL UTILITIES INCLUDING INVERTS, TOP ELEVATIONS, PIPE LENGTHS AND TYPE OF CONSTRUCTION MATERIAL, SPOT ELEVATIONS ON FORCE MAINS AND WATER LINES, THE DISTANCE OF THE CENTERLINE OF UTILITIES FROM A PERMANENT STRUCTURE. ALL VALVE MANHOLES AND VALVE BOXES SHALL BE LOCATED WITH RESPECT TO A PERMANENT STRUCTURE. GRADES SHALL BE CONFIRMED IN ROADS AND PARKING AREAS AS WELL AS SWALES TO SHOW DIRECTION OF STORMWATER FLOW. THE FINISHED FLOOR ELEVATION SHALL BE SHOWN ON ALL BUILDINGS. IF THE LANDSCAPING IS CHANGED IN ANY WAY AN AS BUILT OF THE LANDSCAPE PLAN IS TO BE SUBMITTED TO THE ENGINEER; AND ANY OTHER REQUIREMENT MADE BY THE LOCAL JURISDICTION.
- ALL NEW DISTURBED AREAS WILL BE GRASSED BY SEEDING OR SPRIGGING IN ACCORDANCE WITH GA. D.O.T. STANDARD SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.
- CONTRACTOR SHALL PROVIDE DUST CONTROL OF ALL DISTURBED AREAS BY THE USE OF WATER AND FAST GROWING, TEMPORARY VEGETATION ON ALL STOCKPILED SOILS.
- CONTRACTOR WILL PROVIDE A CONSTRUCTION SCHEDULE INCLUDING ALL EROSION AND SEDIMENT CONTROL MEASURES.
- TESTING - PROVIDE ALL TESTING AS REQUIRED IN THE SPECIFICATIONS. PROVIDE ENGINEER WITH COPY DIRECT FROM TESTING LAB.
- CONTRACTOR SHALL MAINTAIN SITE ON A DAILY BASIS TO PROVIDE FOR POSITIVE DRAINAGE. CONTRACTOR, AT HIS COST, SHALL GRADE SITE AND PROVIDE NECESSARY TEMPORARY DRAINAGE SWALES TO INSURE STORM WATER DOES NOT POND ON SITE.
- ANY STUMP HOLES OR OTHER DEPRESSIONS SHOULD BE CLEARED OF LOOSE MATERIAL AND DEBRIS AND SHOULD THEN BE BACKFILLED WITH APPROVED FILL. THE BACKFILL SHOULD BE PLACED IN SIX INCH MAXIMUM LIFTS AND COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM-D-1557.
- ANY UTILITIES THAT UNDERLIE THE SITE SHOULD BE RELOCATED AND THE TRENCHES BACKFILLED WITH APPROVED SOIL. THE BACKFILL SHOULD BE PLACED IN SIX INCH MAXIMUM LIFTS AND COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM-D-1557.
- THE SUBGRADE SHOULD BE PROOFROLLED WITH A LOADED DUMP TRUCK TO LOCATE UNSTABLE OR SOFT AREAS. THESE AREAS SHOULD THEN BE INVESTIGATED TO DETERMINE THE CAUSE OF THE INSTABILITY. IF DUE TO UNSUITABLE SOIL, SUCH AS HIGHLY ORGANIC SOILS OR SOFT CLAYS, THE AREA SHOULD BE UNDERCUT TO A FIRM SOIL AND REPLACED WITH APPROVED FILL COMPACTED IN SIX INCH LIFTS TO MINIMUM OF 95% OF THE SOILS MODIFIED PROCTOR MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM-D-1557. UNSUITABLE SOIL MATERIALS ARE DEFINED AS THOSE COMPLYING WITH ASTM D2487 SOIL CLASSIFICATION GROUPS ML, MH, CH, CL, OL AND PT. IF THE INSTABILITY IS DUE TO EXCESS MOISTURE IN OTHERWISE SUITABLE SOIL, THE AREA SHOULD BE DRAINED AND COMPACTED TO 95% OF THE SOILS MODIFIED PROCTOR MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM-D-1557. ANY FILL REQUIRED TO LEVEL OR RAISE THE SITE SHOULD THAN BE PLACED IN 6" THICK LOOSE LIFTS AND COMPACTED TO 95% OF THE SOILS MODIFIED PROCTOR MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM-D-1557. THE ENGINEER SHALL CERTIFY THE PROOF ROLLING PROCESS AND THE RESULTS OF THE PROOF ROLL.
- ALL OF THE FILL FOR THIS PROJECT SHOULD CONSIST OF NON PLASTIC GRANULAR MATERIAL WITH A MAXIMUM OF 25% FINES PASSING THE NO. 200 SIEVE. THE FILL SHOULD BE FREE OF ORGANICS, ROOTS, OR OTHER DELETERIOUS MATERIALS. FILL CLASSIFIED AS SW, SP, SP-SM OR SM WITH A MAXIMUM OF 15% PASSING A NO. 200 SIEVE MAY BE ACCEPTABLE.
- MOISTURE CONTENT SHALL BE AT OR BELOW OPTIMUM.
- ALL SIGNING AND PAVEMENT MARKINGS SHALL BE PER GADOT, M.U.T.C.D. AND THE LOCAL JURISDICTIONS SPECIFICATIONS.
- ALL STANDARD HIGHWAY SIGNS AND POSTS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE PLANS, THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, AND THE GEORGIA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, AND/OR SPECIAL PROVISIONS.



GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION
 ANTHONY T. ALLEN
 Level II Certified Design Professional
 CERTIFICATION NUMBER 000044936
 ISSUED 08/21/2007 EXPIRES 08/21/2010



811
 Know what's below.
 Call before you dig.

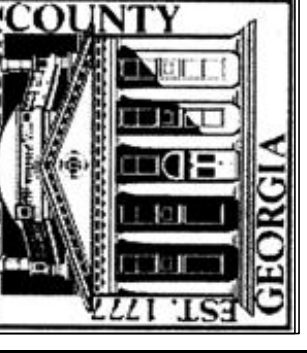
LEGEND

	EXISTING	PROPOSED	
CONTROL NAIL			CHAIN LINK
IRON PIPE			BARBED WIRE
IRON REBAR			HOG WIRE
CONCRETE MONUMENT			WROUGHT IRON
RIGHT-OF-WAY MARKER			WOODEN
BENCHMARK			SILT FENCE (SINGLE)
RAILROAD CROSSING ARM			SILT FENCE (DOUBLE)
PIPES			CENTERLINE OF ROAD
DRAINAGE MANHOLE			EDGE OF ASPHALT
GRATE INLET			CURB & GUTTER
FLARED END SECTION			RAILROAD TRACK
INVERT ELEVATION			WATERMAIN LINE (EXISTING)
CURB INLET TYPE A			WATERMAIN LINE (PROPOSED)
CURB INLET TYPE B			UNDERGROUND POWER CABLE
CURB INLET TYPE C			OVERHEAD POWER CABLE
RIP RAP			GAS LINE
BACKFLOW PREVENTER			UNDERGROUND TELEPHONE CABLE
BLOW-OFF			OVERHEAD TELEPHONE CABLE
FIRE HYDRANT			UNDERGROUND FIBER OPTIC CABLE
HOSE BIBB (SPIGOT)			OVERHEAD FIBER OPTIC CABLE
WELL			UNDERGROUND CABLE TV
WATER LINE MARKER			OVERHEAD CABLE TV
WATER METER			EXISTING SEWER LINE
WATER MANHOLE			PROPOSED SEWER LINE
WATER VALVE			FORCEMAIN LINE
POWER POLE			
GUY POLE			
LIGHT POLE			
GROUND LIGHT			
ELECTRICAL LINE MARKER			
ELECTRICAL MANHOLE			
ELECTRICAL CONTROL BOX			
ELECTRICAL OUTLET BOX			
ELECTRICAL SERVICE METER			
ELECTRICAL TRANSFORMER			
GAS LINE MARKER			
GAS METER			
TELEPHONE PEDESTAL			
TELEPHONE LINE MARKER			
CLEANOUT			
CENTER SANITARY MANHOLE			
GREASE TRAP			



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EFFINGHAM COUNTY
BOARD OF COMMISSIONERS
ENGINEERING DEPARTMENT



REVISIONS	DATE
NUMBER	

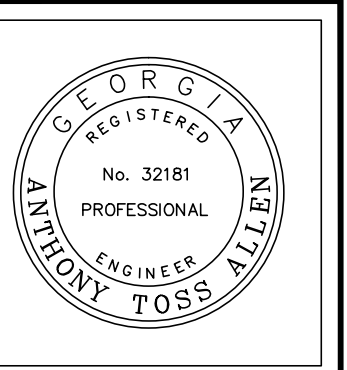
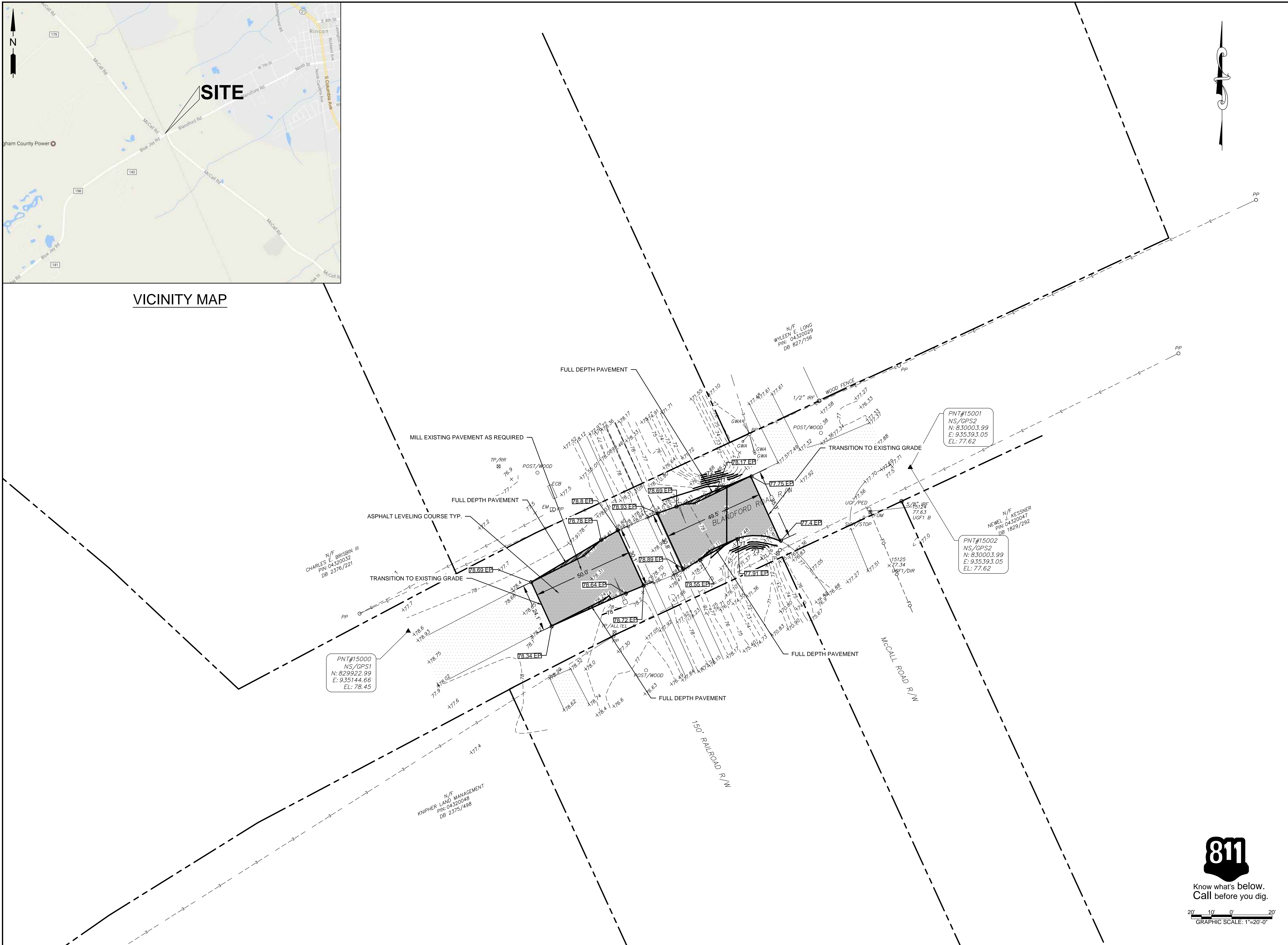
DESIGNED	WAS	WAS	ATA	JUN 2017	15-016	1"
DRAWN						20'
CHECKED						
DATE						
JOB NO.						
SCALE						

NORFOLK-SOUTHERN RR CROSSINGS
 PREPARED FOR:
EFFINGHAM COUNTY BOARD OF COMMISSIONERS
 GENERAL NOTES

SHEET NUMBER
2
 OF 10

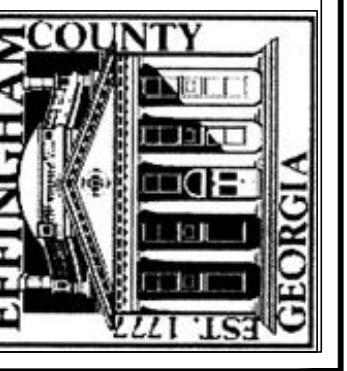


VICINITY MAP



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EFFINGHAM COUNTY
BOARD OF COMMISSIONERS
ENGINEERING DEPARTMENT



REVISIONS	NUMBER	DATE

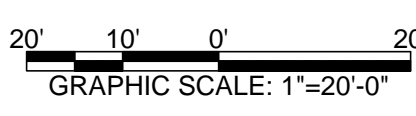
DESIGNED	DRAWN	CHECKED	DATE	JOB NO.	SCALE

NORFOLK-SOUTHERN RR CROSSINGS
PREPARED FOR:
EFFINGHAM COUNTY BOARD OF COMMISSIONERS
SITE PLAN--BLANFORD ROAD CROSSING

SHEET NUMBER
3
OF 10

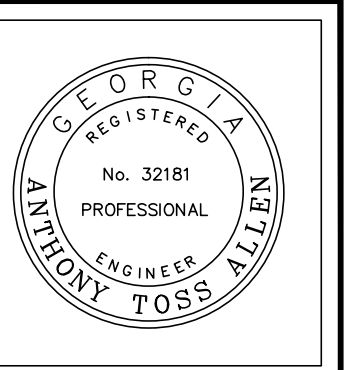
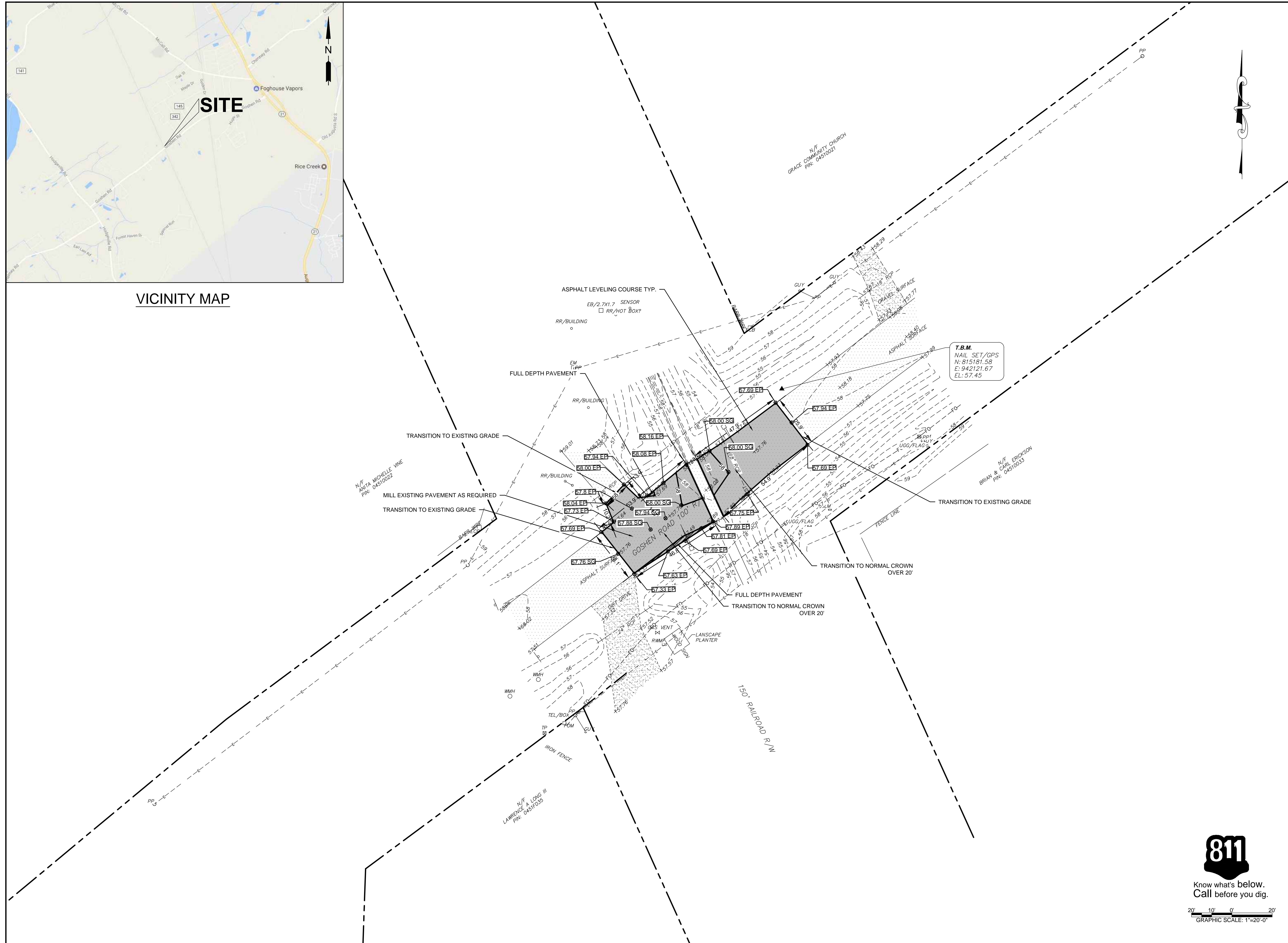


Know what's below.
Call before you dig.



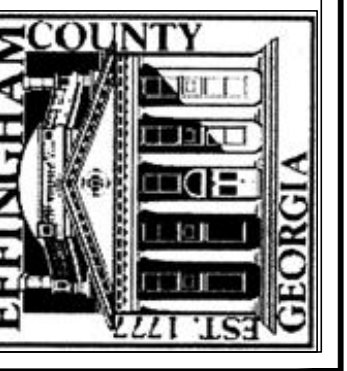


VICINITY MAP



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EFFINGHAM COUNTY
BOARD OF COMMISSIONERS
ENGINEERING DEPARTMENT



REVISIONS	DATE
NUMBER	

DESIGNED	WAS	WAS	WAS
DRAWN	CHECKED	ATA	ATA
DATE	JUN 2017		
JOB NO.	15-016		
SCALE	1" = 20'		

NORFOLK-SOUTHERN RR CROSSINGS
PREPARED FOR:
EFFINGHAM COUNTY BOARD OF COMMISSIONERS
SITE PLAN--GOSHEN ROAD CROSSING

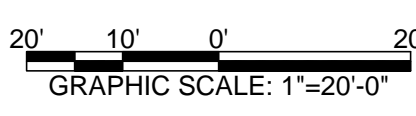
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OF 10

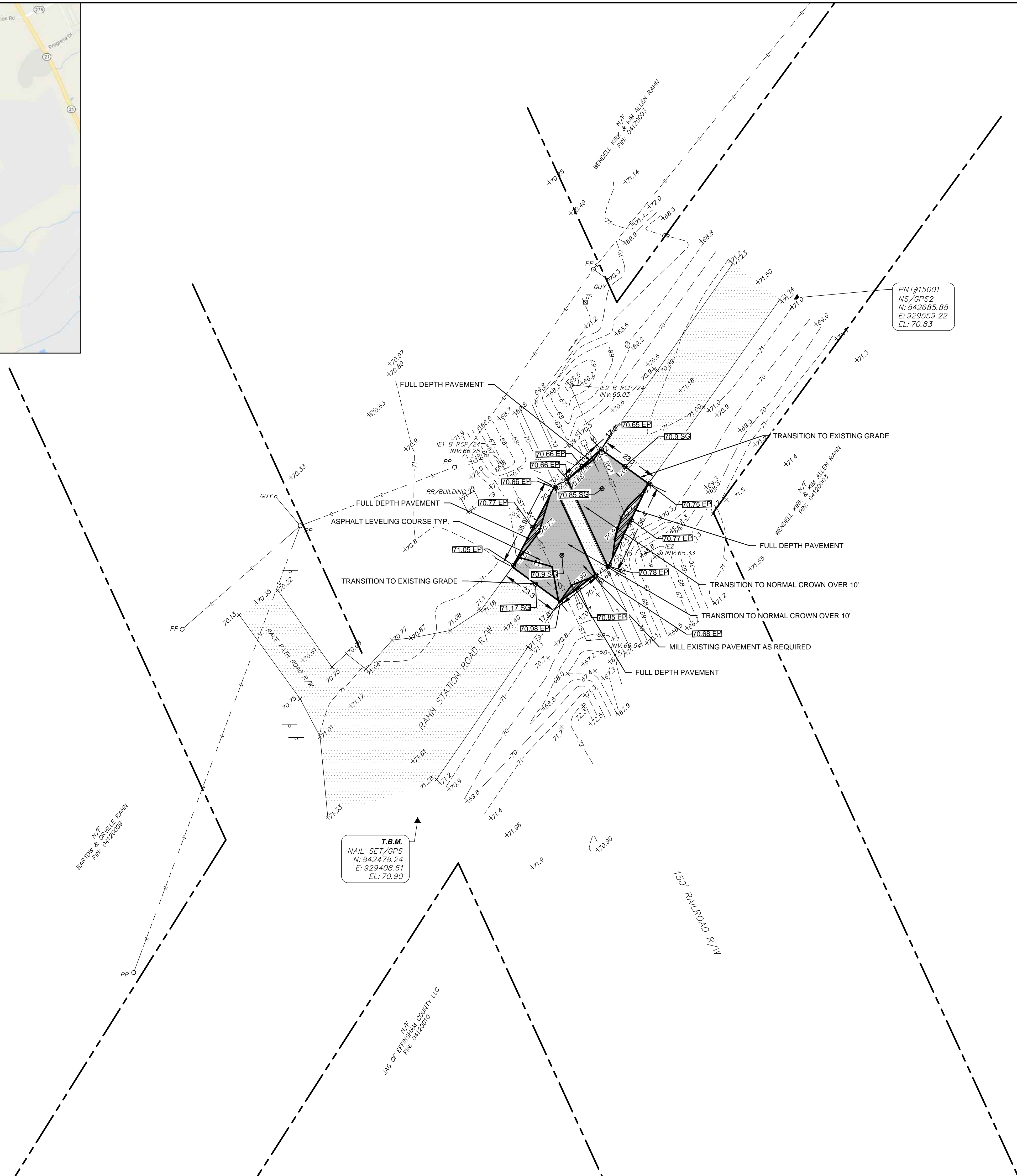


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VICINITY MAP

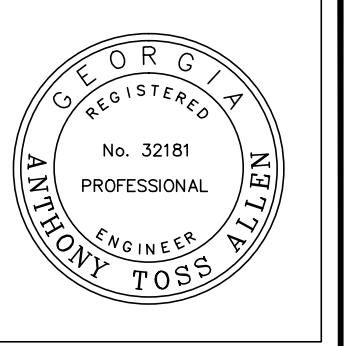
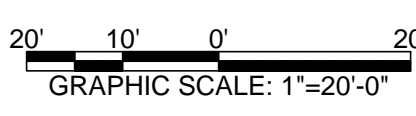


PNT#15001
NS/GPS2
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E: 929559.22
EL: 70.83

T.B.M.
NAIL SET/GPS
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EL: 70.90

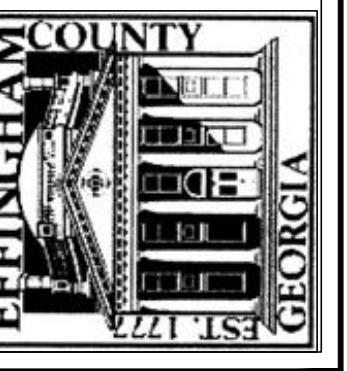


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REVISIONS	NUMBER	DATE

DESIGNED	WAS	WAS	WAS	SCALE
DRAWN	CHECKED	DATE	JOB NO.	1" = 20'

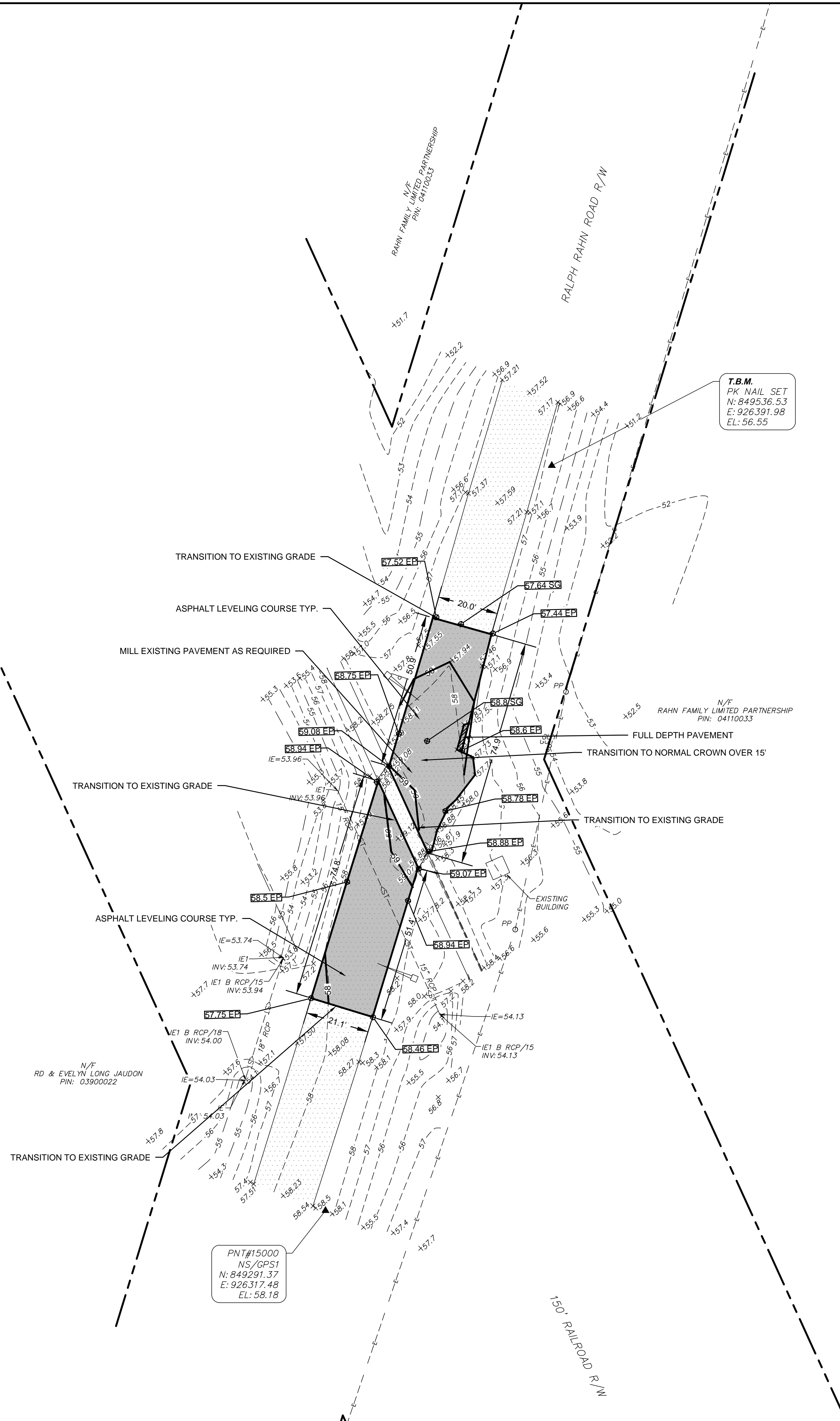
NORFOLK-SOUTHERN RR CROSSINGS
PREPARED FOR:
EFFINGHAM COUNTY BOARD OF COMMISSIONERS
SITE PLAN--RAHN STATION ROAD CROSSING

SHEET NUMBER

5
OF 10



VICINITY MAP

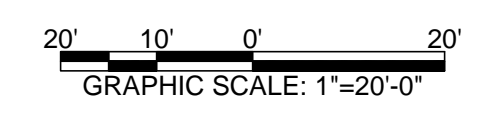


T.B.M.
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EL: 56.55

PNT#15000
NS/GPS1
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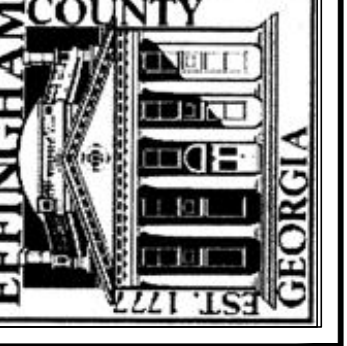


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REVISIONS	NUMBER	DATE

DESIGNED	WAS	WAS	ATA	15-016	1" = 20'
DRAWN	CHECKED	DATE	JUN 2017	JOB NO.	SCALE

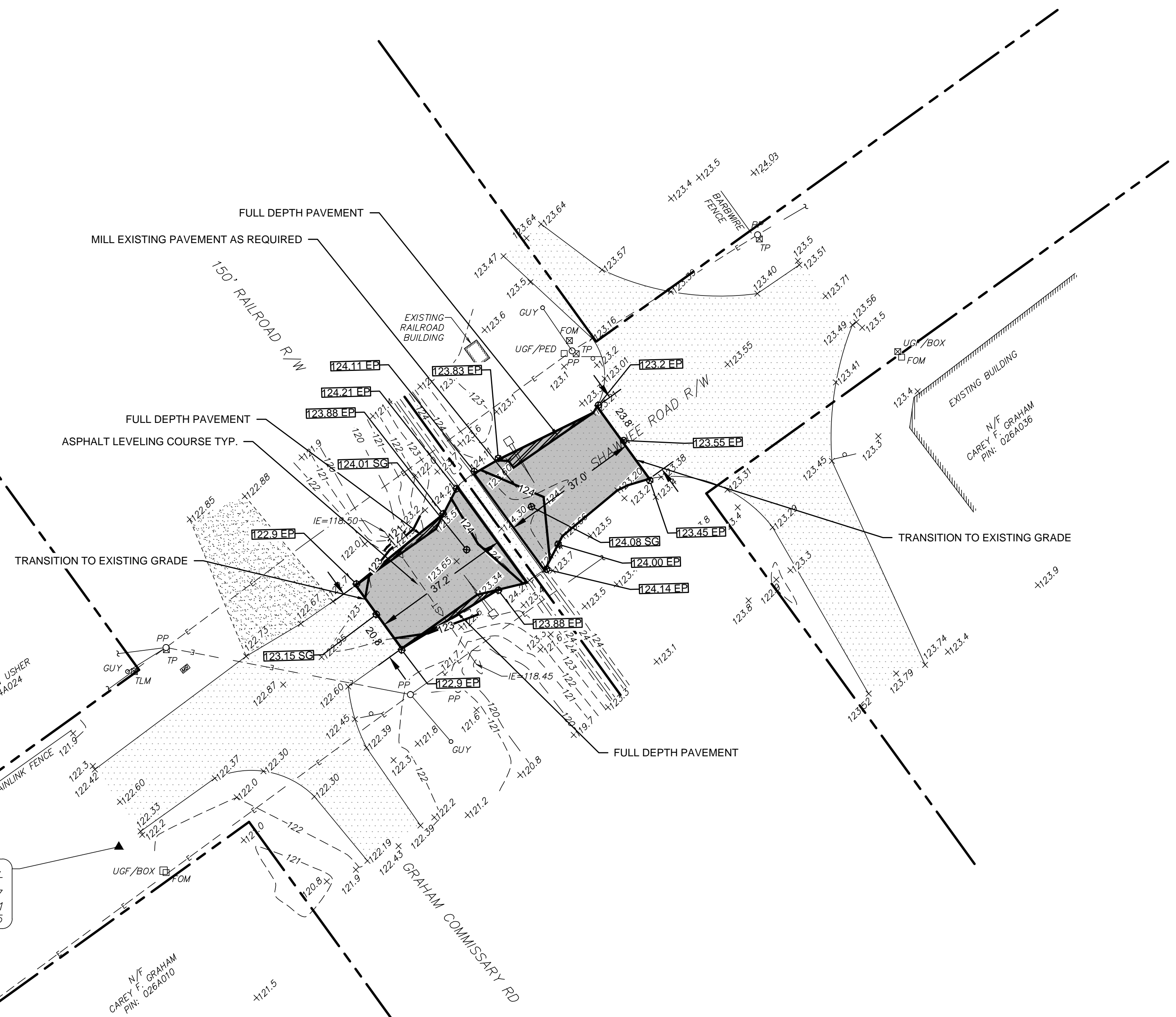
NORFOLK-SOUTHERN RR CROSSINGS
PREPARED FOR:
EFFINGHAM COUNTY BOARD OF COMMISSIONERS
SITE PLAN--RALPH RAHPH ROAD CROSSING

SHEET NUMBER

6
OF 10



VICINITY MAP



T.B.M.
PK NAIL SET
N: 901600.67
E: 889641.11
EL: 122.35



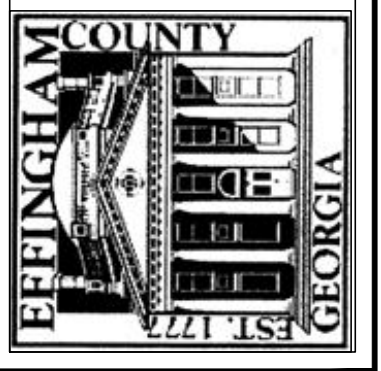
Know what's below.
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20' 10' 0' 20'
GRAPHIC SCALE: 1"=20'-0"



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ENGINEERING DEPARTMENT



REVISIONS	NUMBER	DATE

DESIGNED	WAS	WAS	ATA	15-016	1" = 20'
DRAWN					
CHECKED					
DATE					
JOB NO.					
SCALE					

NORFOLK-SOUTHERN RR CROSSINGS
PREPARED FOR:
EFFINGHAM COUNTY BOARD OF COMMISSIONERS
SITE PLAN--SHAWNEE ROAD CROSSING

SHEET NUMBER

7
OF 10



601 NORTH LAUREL STREET
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BOARD OF COMMISSIONERS
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REVISIONS	NUMBER	DATE

DESIGNED	WAS	WAS	ATA	JUN 2017	15-016	1" = 20'
DRAWN	CHECKED	DATE	JOB NO.	SCALE		

EROSION AND SEDIMENTATION CONTROL PLANS (1)
PREPARED FOR:
EFFINGHAM COUNTY BOARD OF COMMISSIONERS
SITE PLAN--BLANFORD ROAD CROSSING

SHEET NUMBER

8

of 10

SECONDARY PERMITTEES:

NOTE: THIS MASTER LIST TO BE COMPLETE AND SIGNED AND KEPT IN THE ONSITE CONSTRUCTION TRAILER.

SECONDARY PERMITTEE'S SIGN WHEN RECEIVING PLAND. ALL SECONDARY PERMITTEES MUST SUBMIT SECONDARY NOE AT LEAST 14 DAY PRIOR TO GEFINNING CONSTRUCTION ACTIVITY.

NAME _____ PHONE: _____
 COMPANY _____ FAX: _____
 ADDRESS _____
 ADDRESS _____
 GSWCC LEVEL 1A CERTIFICATION NO. _____ SIGNATURE _____

NAME _____ PHONE: _____
 COMPANY _____ FAX: _____
 ADDRESS _____
 ADDRESS _____
 GSWCC LEVEL 1A CERTIFICATION NO. _____ SIGNATURE _____

NAME _____ PHONE: _____
 COMPANY _____ FAX: _____
 ADDRESS _____
 ADDRESS _____
 GSWCC LEVEL 1A CERTIFICATION NO. _____ SIGNATURE _____

NAME _____ PHONE: _____
 COMPANY _____ FAX: _____
 ADDRESS _____
 ADDRESS _____
 GSWCC LEVEL 1A CERTIFICATION NO. _____ SIGNATURE _____

SPECIAL NOTES:

- 3. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
- 4. THERE ARE NO STATE WATERS LOCATED WITHIN 200' OF THIS SITE.
- 5. THERE WILL BE NO WETLANDS IMPACTED DUE TO THE DEVELOPMENT OF THIS SITE.
- 7. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
- 8. ANY AMENDMENT TO THE EROSION CONTROL PLANS WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

DESIGN PROFESSIONAL 7-DAY VISIT CERTIFICATION:

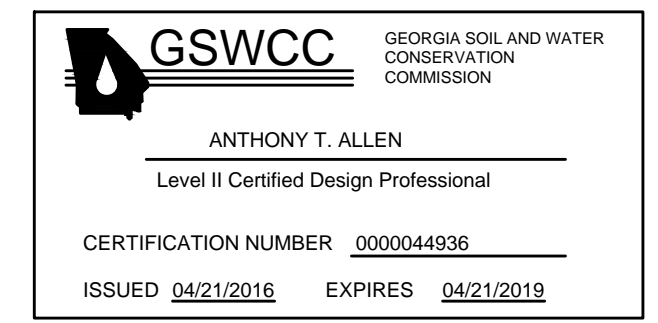
DATE OF INSPECTION _____

I CERTIFY THE SITE WAS IN COMPLIANCE WITH THE ES&PC PLAN ON THE DATE OF INSPECTION.

GSWCC LEVEL II DESIGN PROFESSIONAL _____ CERTIFICATION # _____

INSPECTION REVEALED THE FOLLOWING DISCREPANCIES FROM THE ES&PC PLAN

THESE DISCREPANCIES MUST BE ADDRESSED IMMEDIATELY AND A RE-INSPECTION SCHEDULED. WORK SHALL NOT PROCEED ON SITE UNTIL DESIGN PROFESSIONAL CERTIFICATION IS OBTAINED.



NO WASTE WILL BY DISPOSED INTO STORM WATER INLETS OR WATERS OF THE STATE.

WASTE MATERIALS

ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ONSITE. ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOB SITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

SOIL EROSION AND CONTROL PRACTICES:

- LOCAL, STATE AND MANUFACTURE'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL.
- MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDE, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.
- SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.
- ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.
- FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER) THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.
- FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.
- FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITH 24 HOURS.
- FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.

PRODUCT SPECIFIC PRACTICES:

PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS, AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORM DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

PAINTS/FINISHES/SOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCTS, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

CONCRETE TRUCK WASHING - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WAS WATER ONSITE.

FERTILIZER/HERBICIDES - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATION OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.

BUILDING MATERIALS - NO BUILDING MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIALS WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

STATE WATERS/WETLANDS:

THERE ARE NO STATE WATERS ON OR WITHIN 200' OF THE PROJECT LIMITS. THERE ARE NO WETLANDS WITHIN THE PROJECT LIMITS. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OF 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESETED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS ACCORDING TO PART IV.(1) AND (11) OF THE GENERAL PERMIT

HAZARDOUS WASTES:

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED, WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS'S) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. THE MSDS WILL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS STORED AND/OR USED AND ANOTHER COPY OF EACH MSDS WILL BE MAINTAINED IN THE ESOPC FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES. THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THIS ESOPC AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WASTES WILL BE ALLOWED TO SOME IN CONTACT WITH STORMWATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORMWATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER. IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.

SANITARY WASTES

A MINIMUM OF ONE PORTABLE SANITARY UNIT WILL BE PROVIDED FOR EVERY TEN (10) WORKERS ON THE SITE. ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS. ALL SANITARY WASTE UNITS WILL BE LOCATED IN ONE AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORM WATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMPs MUST BE IMPLEMENTED SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE TO PREVENT WASTES FROM CONTRIBUTING TO STORM WATER DISCHARGES. THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN GRADING PHASE SHEET C-4B, BY THE CONTRACTOR ONCE THE LOCATION HAVE BEEN DETERMINED. SANITARY SEWER WILL BE PROVIDED BY MUNICIPAL AUTHORITY/SEPTIC SYSTEM UPON THE COMPLETION OF THIS PROJECT.

PETROLEUM SPILLS & LEAKS:

ANY LEAKS OR SPILLS OF PETROLEUM PRODUCTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTAIN, CONTROL, AND REMEDIATE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL GUIDELINES, ORDINANCES, AND LAWS.

CONTROL OF POLLUTANTS: POLLUTANTS OR POTENTIALLY HAZARDOUS MATERIALS, SUCH AS FUELS, LUBRICANTS, LEAD PAINT, CHEMICALS OR BATTERIES, SHALL BE TRANSPORTED, STORED AND UTILIZED IN A MANNER TO PREVENT LEAKAGE OR SPILLAGE INTO THE ENVIRONMENT. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PROPER AND LEGAL DISPOSAL OF ALL SUCH MATERIALS. EQUIPMENT, ESPECIALLY CONCRETE OR ASPHALT TRUCKS, SHALL NOT BE WASHED OR CLEANED OUT ON THE PROJECT EXCEPT IN AREAS WHERE UNUSED PRODUCT CONTAMINANTS CAN BE PREVENTED FROM ENTERING WATERWAYS.

KEEPING PLANS CURRENT:

THE PRIMARY, SECONDARY OR TERTIARY PERMITTEES, AS APPLICABLE, WHO BEGAN CONSTRUCTION ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT SHALL AMEND THEIR PLAN OR TEC PLAN WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE, WHICH HAS A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT, I.E., THOSE BMPs WHERE THE DESIGN IS BASED UPON RAINFALL INTENSITY, DURATION AND RETURN FREQUENCY OF STORMS OR ON THE POTENTIAL FOR THE DISCHARGE OF POLLUTANTS TO THE WATERS OF GEORGIA AND WHICH HAS NOT OTHERWISE BEEN ADDRESSED IN THE PLAN OR TEC PLAN, IF THE PLAN OR TEC PLAN PROVES TO BE INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANTS FROM SOURCES IDENTIFIED UNDER PART IV.D.2 OF THIS PERMIT, OR IF THE PLAN OR TEC PLAN PROVES TO BE INEFFECTIVE IN ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY. AMENDMENTS TO THE PLAN MUST BE CERTIFIED BY A DESIGN PROFESSIONAL AS PROVIDED IN THIS PERMIT. FOR CONSTRUCTION COMMENCING AFTER THE EFFECTIVE DATE OF THIS PERMIT, SECONDARY PERMITTEES MUST NOTIFY THE PRIMARY PERMITTEE WITHIN 24-HOURS OF BECOMING AWARE OF ANY SUSPECTED BMP DESIGNED DEFICIENCIES WHICH ARE NOT EFFECTIVE IN CONTROLLING THE DISCHARGE OF POLLUTANTS FROM THE SECONDARY PERMITTEE'S SITE. THE PRIMARY PERMITTEE MUST EVALUATE WHETHER THESE DEFICIENCIES EXIST WITHIN 48-HOURS OF SUCH NOTICE, AND IF THESE DEFICIENCIES ARE FOUND TO EXIST MUST AMEND THE PLAN IN ACCORDANCE WITH THIS PARAGRAPH TO ADDRESS THOSE DEFICIENT BMPs WITHIN SEVEN (7) DAYS OF BEING NOTIFIED BY THE SECONDARY PERMITTEE. WHEN THE PLAN IS AMENDED, THE PRIMARY PERMITTEE MUST NOTIFY AND PROVIDE A COPY OF THE AMENDMENT TO ALL AFFECTED SECONDARY PERMITTEES WITHIN THIS SEVEN (7) DAY PERIOD. THE SECONDARY PERMITTEE(S) MUST IMPLEMENT ANY NEW PLAN REQUIREMENTS AFFECTING THEIR SITE(S) WITHIN 48-HOURS OF NOTIFICATION BY THE PRIMARY PERMITTEE. NOTWITHSTANDING THE FOREGOING, THE PRIMARY OR TERTIARY PERMITTEE REMAINS RESPONSIBLE FOR INSURING THAT THE PLAN OR THE TEC PLAN, AS APPROPRIATE, MEETS THE REQUIREMENTS OF THIS PERMIT.

NOTE

ANY AMENDMENT TO THE EROSION CONTROL PLANS WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

EROSION AND SEDIMENT NARRATIVE NOTES:

1. **DESCRIPTION:** THE SITES ARE LOCATED ALONG FIVE RAIL ROAD CROSSINGS ALONG THE NORTHFOLK SOUTHERN LINE. THESE CROSSINGS OCCUR AT BLUE JAY ROAD, GOSHEN ROAD, RAHN-STATION ROAD, RALPH-RAHN ROAD, AND SHAWNEE ROAD. EACH SITE IS UNDER APPROXIMATELY 0.05 ACRES IN SIZE. THE PERMITEE WISHES TO REPAIR AND REGRADE THE PAVEMENT ALONG THESE CROSSINGS. THIS PROJECT DOES NOT MEET THE MINIMUM REQUIREMENTS TO NECESSITATE A LDA PERMIT OR NRCS TECHNICAL REVIEW.

2. **ADJACENT PROPERTY:**

NORTH: VARIES
SOUTH: VARIES
WEST: VARIES
EAST: VARIES

3. **ZONING:** EACH SITE IS LOCATED WITHIN THE NORTHFOLK SOUTHERN AND EFFINGHAM COUNTY RIGHT OF WAYS.

4. **SOILS, TOPOGRAPHIC AND DRAINAGE INFORMATION:** FOR INFORMATION REGARDING THE SOILS, TOPOGRAPHIC AND DRAINAGE INFORMATION PLEASE REFERENCE THE PAVING, GRADING, AND DRAINAGE PLAN, AND THE SOIL EROSION PLAN OF THE CONSTRUCTION DRAWINGS.

5. **VEGETATION:** MOST CONSTRUCTION WILL OCCUR ON IMPERVIOUS AREAS.

6. **BUFFER REQUIREMENTS:** AS REQUIRED BY ARTICLES 15 AND 16 OF SECTION 12-7-6 OF THE "GEORGIA EROSION AND SEDIMENTATION ACT OF 1975", THERE IS ESTABLISHED A 25 FOOT BUFFER ALONG THE BANKS OF ALL STATE WATERS, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STEAM FLOW OR WAVE ACTION, EXCEPT WHERE THE DIRECTOR DETERMINES TO ALLOW A VARIANCE THAT IS AT LEAST AS PROTECTIVE OF THE NATURAL RESOURCES AND THE ENVIRONMENT, WHERE OTHERWISE ALLOWED BY THE DIRECTOR PURSUANT TO OCGA 12-2-8, OR WHERE A DRAINAGE STRUCTURE OR ROADWAY DRAINAGE STRUCTURE MUST BE CONSTRUCTED, PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED IN THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED.

7. **EROSION CONTROL PROGRAM:** CLEARING WILL BE KEPT TO AN ABSOLUTE MINIMUM. VEGETATION AND MULCH WILL BE APPLIED TO APPLICABLE AREAS IMMEDIATELY AFTER GRADING IS COMPLETED. GRAVEL WILL BE APPLIED TO PARKING AREAS AND ROADWAYS AS SOON AS GRADING IS COMPLETED. LAND-DISTURBING WILL BE SCHEDULED TO LIMIT EXPOSURE OF BARE SOILS TO EROSION ELEMENTS. STORM WATER MANAGEMENT STRUCTURES WILL BE EMPLOYED TO PREVENT EROSION IN AREAS OF CONCENTRATED WATER FLOWS. EROSION AT THE EXITS OF ALL STORM WATER STRUCTURES WILL BE PREVENTED BY THE INSTALLATION OF STORM DRAIN OUTLET PROTECTION DEVICES.

8. **SEDIMENT CONTROL PROGRAM:** EROSION CONTROL IS MINIMAL FOR THIS PROJECT BECAUSE EACH SITE IS UNDER ONE ACRE IN SIZE AND PREDOMINANTLY LOCATED ON PRE-IMPERVIOUS SURFACES.

9. **STANDARDS AND SPECIFICATIONS:** ALL DESIGNS WILL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE PUBLICATION ENTITLED, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

10. **SAFETY PROTECTION:** CONSTRUCTION ACTIVITIES WILL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE LAWS, RULES AND REGULATIONS. THE SEDIMENT BASINS WILL BE CONVERTED TO STORM WATER DETENTION STRUCTURES.

11. **MAINTENANCE PROGRAM:** SEDIMENT AND EROSION CONTROL MEASURES WILL BE INSPECTED DAILY. ANY DAMAGES OBSERVED WILL BE REPAIRED BY THE END OF THAT DAY. CLEANOUT OF SEDIMENT CONTROL STRUCTURES WILL BE ACCOMPLISHED IN ACCORDANCE WITH THE SPECIFICATIONS AND SEDIMENT DISPOSAL ACCOMPLISHED BY SPREADING ON THE SITE. BARRIERS WILL REMAIN IN PLACE UNTIL SEDIMENT CONTRIBUTING AREAS ARE STABILIZED. THE SEDIMENT FENCES, AND THE BARRIERS WILL THEN BE REMOVED AND THE AREAS OCCUPIED BY THESE AREAS WILL THEN BE VEGETATED. GUIDELINES FOR THE MAINTENANCE OF ESTABLISHED VEGETATION WILL BE PROVIDED TO THE OWNER WHEN ALL DISTURBED AREAS ARE STABILIZED.

Ds2-Ds3 NOTES:

Ds2 - 1. A TEMPORARY GRASSING OF BROWN TOP MILLET SHALL BE APPLIED AT A RATE OF 40 LBS PER ACRE DURING THE MONTHS OF MAY AND JUNE TO DISTURBED AREAS WITHIN 14 DAYS OF DISTURBANCE.

2. A 6-12-12 FERTILIZER SHALL BE USED ON THE DISTURBED AREA OF Ds2 AND SHALL BE APPLIED AT A RATE OF 1500 LBS. PER AC.

Ds3 - 1. A PERMANENT GRASSING OF PENSACOLA BAHIA SHALL BE APPLIED AT A RATE OF 60 LBS. PER ACRE DURING THE MONTH OF JULY. IF A HYDRAULIC SEEDER IS TO BE USED, REFER TO THE EROSION AND SEDIMENT CONTROL MANUAL FOR FURTHER DIRECTION ON THE METHOD OF APPLICATION.

2. A 6-12-12 FERTILIZER SHALL BE USED ON THE DISTURBED AREA OF Ds3 AND SHALL BE APPLIED AT RATE OF 1500 LBS. PER AC.

3. DRIED STRAW OR DRY HAY SHALL BE USED FOR MULCHING AND APPLIED AT A RATE OF 2 TONS PER ACRE. MULCH WILL BE SPREAD UNIFORMLY WITHIN 24 HOURS AFTER SEEDING. THE MULCH MAY BE SPREAD BY BLOWER-TYPE SPREADING EQUIPMENT, OTHER SPREADING EQUIPMENT OR BY HAND. MULCH SHALL BE APPLIED TO COVER 75% OF THE SOIL SURFACE.

12. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

13. MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL PRATICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE OWNER.

14. THE TOTAL SITE ACREAGE FOR THIS PHASE OF DEVELOPMENT IS 0.239 ACRES. THE TOTAL DISTURBED AREA IN THIS PHASE IS 0.239 ACRES.

15. ACCORDING TO FIRM FLOOD INSURANCE RATE MAP, COMMUNITY NO. 130076, THESE SITES ARE LOCATED IN ZONE X, NOT A FLOOD HAZARD ZONE AS DETERMINED BY FEMA.

16. THE POINT OF CONTACT FOR CIVIL SITE WORK FOR THIS PROJECT IS:

EFFINGHAM COUNTY PUBLIC WORKS
601 NORTH LAUREL STREET
SPRINGFIELD, GEORGIA 31329
(912) 754-2141

17. DEVELOPER/OWNER:

EFFINGHAM COUNTY BOARD OF COMMISSIONERS
601 NORTH LAUREL STREET
SPRINGFIELD, GEORGIA 31329
(912) 754-2111

18. PRIMARY PERMITTEE:

EFFINGHAM COUNTY BOARD OF COMMISSIONERS
601 NORTH LAUREL STREET
SPRINGFIELD, GEORGIA 31329
(912) 754-2111

19. TWENTY-FOUR HOUR CONTACT RESPONSIBLE FOR EROSION AND SEDIMENT CONTROL.

EFFINGHAM COUNTY BOARD OF COMMISSIONERS
601 NORTH LAUREL STREET
SPRINGFIELD, GEORGIA 31329
(912) 754-2111

SEEDING RATES FOR TEMPORARY & PERMANENT COVER

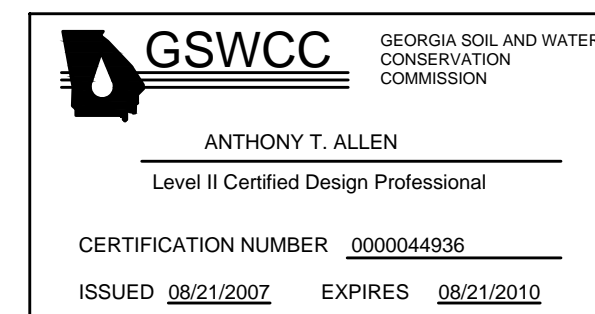
MONTH	TEMPORARY COVER	RATES PER ACRE		PERMANENT COVER	RATES PER ACRE	
		SEEDED ALONE	ADDED TO MIX		SEEDED ALONE	ADDED TO MIX
JANUARY	RYEGRASS RYE	40 lbs. 3 bu.	- .5 bu.	UNHULLED BERMUDA SERICEA LESPEDEZA ¹	10 lbs. 75 lbs.	6 lbs. -
FEBRUARY	ANNUAL LESPEDEZA RYE	40 lbs. 3 bu.	10 lbs. .5 bu.	UNHULLED BERMUDA SERICEA LESPEDEZA ¹	10 lbs. 75 lbs.	8 lbs. -
MARCH	WEEPING LOVEGRASS ANNUAL LESPEDEZA	4 lbs. 40 lbs.	4 lbs. 40 lbs.	PENSACOLA BAHIA HULLED BERMUDA SERICEA LESPEDEZA ²	60 lbs. 10 lbs. 60 lbs.	30 lbs. 8 lbs. -
APRIL	WEEPING LOVEGRASS SUDANGRASS BROWN TOP MILLET	4 lbs. 80 lbs. 40 lbs.	4 lbs. 80 lbs. 40 lbs.	PENSACOLA BAHIA WEEPING LOVEGRASS HULLED BERMUDA SERICEA LESPEDEZA ²	60 lbs. 6 lbs. 10 lbs. 60 lbs.	30 lbs. 6 lbs. 6 lbs. -
MAY	WEEPING LOVEGRASS SUDANGRASS BROWN TOP MILLET PEARL MILLET	4lbs. 60 lbs. 40 lbs. 50 lbs.	4lbs. 60 lbs. 40 lbs. 50 lbs.	PENSACOLA BAHIA WEEPING LOVEGRASS HULLED BERMUDA SERICEA LESPEDEZA ²	60 lbs. 6 lbs. 10 lbs. 60 lbs.	30 lbs. 6 lbs. 6 lbs. -
JUNE	PEARL MILLET SUDANGRASS BROWN TOP MILLET	50 lbs. 60 lbs. 40 lbs.	50 lbs. 60 lbs. 40 lbs.	PENSACOLA BAHIA HULLED BERMUDA	60 lbs. 10 lbs.	30 lbs. 6 lbs.
JULY	PEARL MILLET SUDANGRASS BROWN TOP MILLET	50 lbs. 60 lbs. 40 lbs.	50 lbs. 60 lbs. 40 lbs.	PENSACOLA BAHIA	60 lbs.	30 lbs.
AUGUST	PEARL MILLET RYE	50 lbs. 3 bu.	50 lbs. 3 bu.	PENSACOLA BAHIA	60 lbs.	30 lbs.
SEPTEMBER	RYEGRASS OATS WHEAT	40 lbs. 4 bu. 3 bu.	40 lbs. 4 bu. 3 bu.	SERICEA LESPEDEZA ¹	75 lbs.	-
OCTOBER	RYEGRASS OATS WHEAT RYE BARLEY	3 bu. 40 lbs. 3 bu. 3 bu. 4 bu.	3 bu. 40 lbs. 3 bu. 3 bu. 4 bu.	SAME AS SEPTEMBER	SAME AS SEPTEMBER	
NOVEMBER	SAME AS OCTOBER	SAME AS OCTOBER	SAME AS OCTOBER	SAME AS SEPTEMBER	SAME AS SEPTEMBER	
DECEMBER	SAME AS OCTOBER	SAME AS OCTOBER	SAME AS OCTOBER	SAME AS SEPTEMBER	SAME AS SEPTEMBER	

NOTES

1. UNSCARIFIED
2. SCARIFIED
3. CENTIPEDE SOD CAN BE USED AS PERMANENT COVER ANYTIME EXCEPT JUNE THROUGH OCTOBER.
4. LISTED IN ORDER OF PREFERENCE.
5. ALL PERMANENT GRASS PLANTINGS SHALL BE MULCHED.

TENTATIVE ACTIVITY SCHEDULE

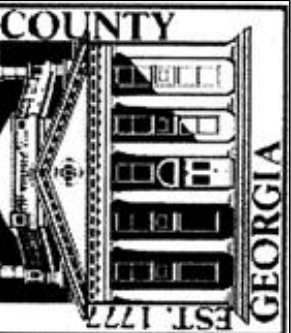
	TENTATIVE ACTIVITY SCHEDULE			
	MONTH 1	MONTH 2	MONTH 3	MONTH 4
CLEARING AND GRUBBING	■			
CONSTRUCTION EXIT	■	■	■	
SEDIMENT BARRIER	■	■	■	■
TEMPORARY SEDIMENT BASIN	■	■	■	■
CHECK DAM			■	■
STORM DRAIN OUTLET PROTECTION				■
DISTURBED AREA STABILIZATION (WITH MULCHING)		■	■	■
DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)		■	■	■
DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)				■
DUST CONTROL	■	■	■	■
GRADING	■	■	■	■
PAVING			■	■



601 NORTH LAUREL STREET
SPRINGFIELD, GA 31329

PH:(912) 754-8060
FX:(912) 754-9859

EFFINGHAM COUNTY
BOARD OF COMMISSIONERS
ENGINEERING DEPARTMENT



REVISIONS	DATE		
	NUMBER		

DESIGNED	WAS	WAS	ATA	JUN 2017	15-016	1" = 20'
DRAWN	CHECKED	DATE	JOB NO.	SCALE		

NORFOLK-SOUTHERN RR CROSSINGS
PREPARED FOR:
EFFINGHAM COUNTY BOARD OF COMMISSIONERS
EROSION AND SEDIMENTATION CONTROL PLANS (2)

SHEET NUMBER

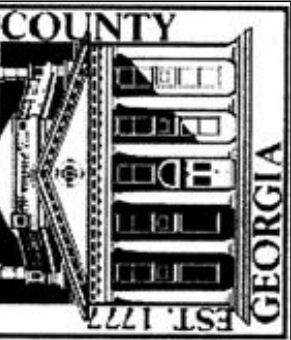
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OF 10



601 NORTH LAUREL STREET
SPRINGFIELD, GA 31329
PH: (912) 754-9060
FX: (912) 754-9859

EFFINGHAM COUNTY
BOARD OF COMMISSIONERS
ENGINEERING DEPARTMENT



REVISIONS	NUMBER	DATE

DESIGNED	WAS	WAS	ATA	DATE	JOB NO.	SCALE
				JUN 2017	15-016	1" = 20'

NORFOLK-SOUTHERN RR CROSSINGS
PREPARED FOR:
EFFINGHAM COUNTY BOARD OF COMMISSIONERS
CONSTRUCTION DETAILS

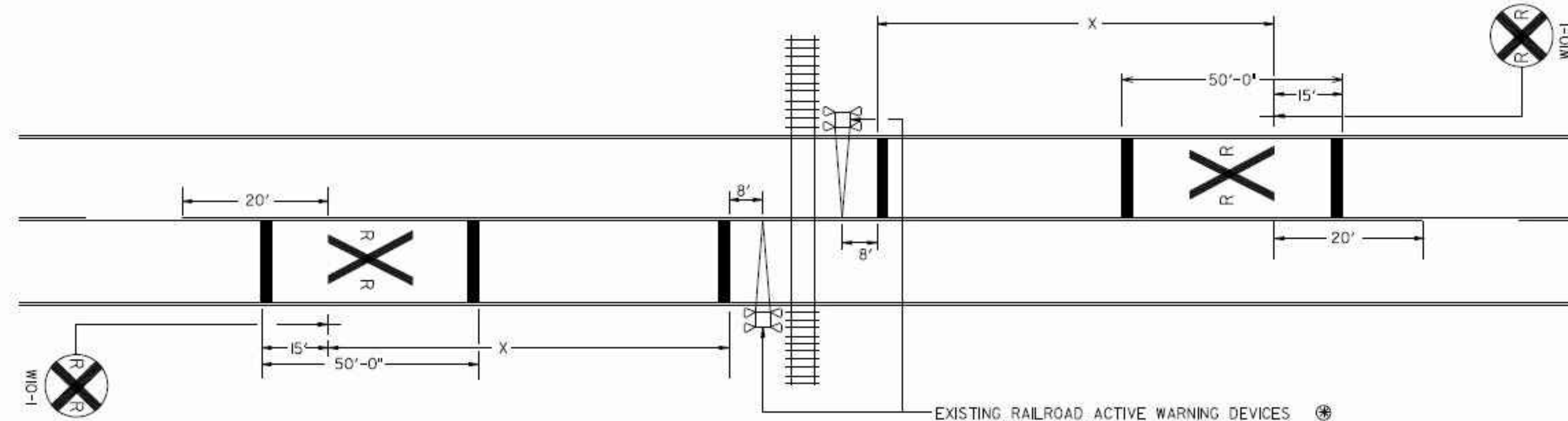
TYPICAL PAVEMENT MARKINGS
(FOR CROSSINGS WITH ACTIVE DEVICES)

GUIDELINES FOR ADVANCE PLACEMENT OF WARNING SIGNS
(Source: 2009 Edition MUTCD)

SPEED (MPH)	CONDITION B (ACTIVE DEVICES CROSSING) MINIMUM	CONDITION A (PASSIVE DEVICES CROSSING ONLY) MINIMUM
0-20	100	225
25	100	325
30	100	460
35	100	565
40	125	670
45	175	775
50	250	885
55	325	990
60	400	1100
65	475	1200

* WHERE THIS DISTANCE IS DISRUPTED BY GRADES, CURVATURE, SIGHT DISTANCE, OR PHYSICAL CONDITIONS OF ROADWAY, ADJUSTMENTS WILL BE MADE ACCORDINGLY BY THE ENGINEER.

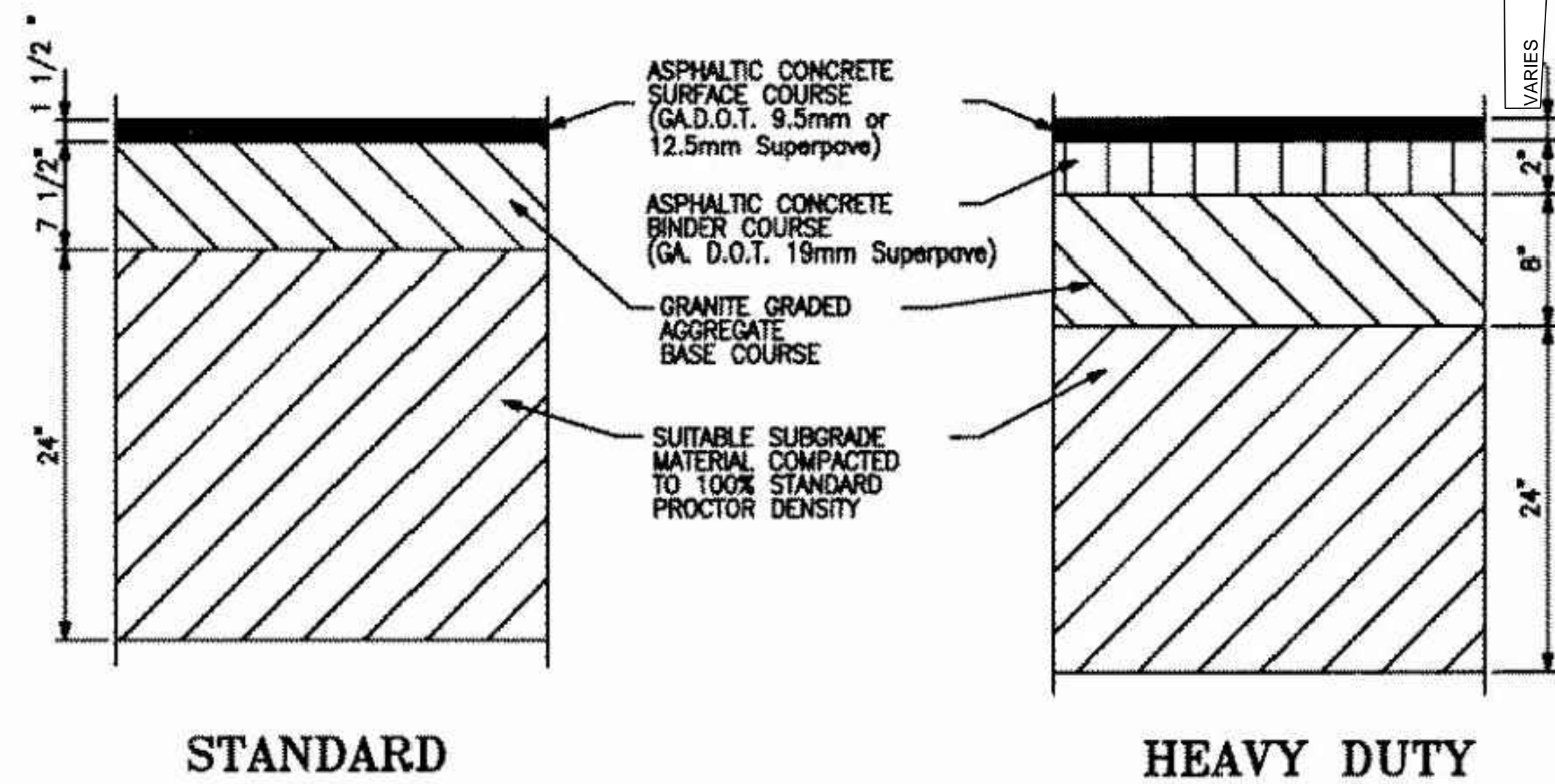
See Guidelines for
X = Advance Placement of
Warning Sign
Distance Table



NOTES:

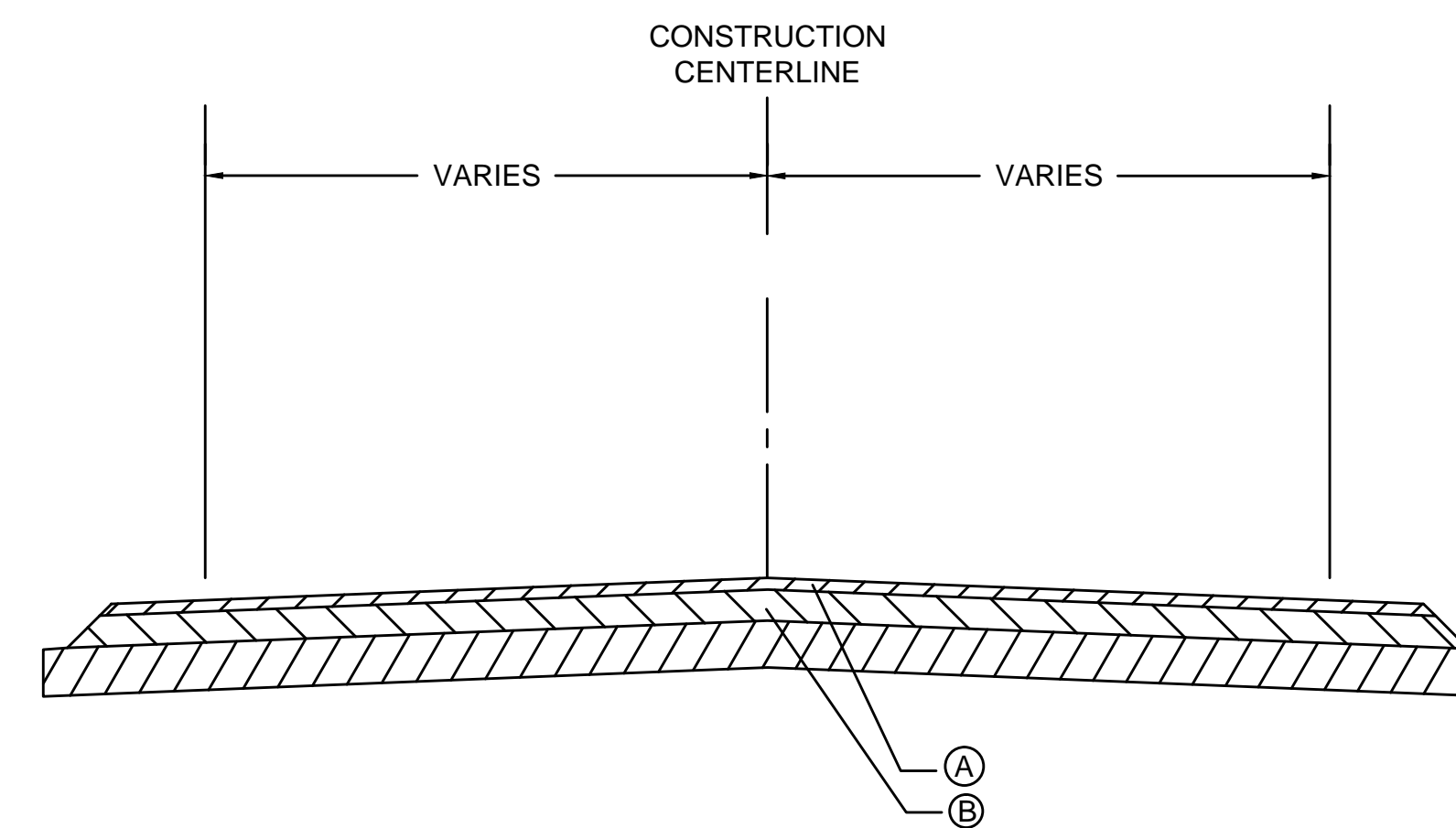
- ROADWAY PAVEMENT MARKINGS SHALL BE ADDED FOR ALL RAILROAD CROSSING UPGRADES.
- SEE MUTCD FOR DETAILS OF PAVEMENT MARKINGS AT PASSIVE RAILROAD CROSSINGS.
- SEE PLANS FOR STOP, YIELD AND RAILROAD WARNING SIGN LOCATIONS.
- SEE PLANS IF NECESSARY FOR STOP OR YIELD AHEAD SIGNS.
- CENTER LINE PROHIBITING PASSING IN APPROACH TO CROSSING SHALL EXTEND MINIMUM OF 20 FEET BEYOND RR WARNING SIGN (W10-1).
- WHERE CENTERLINE AND/OR EDGE LINES DO NOT EXIST, RR SYMBOL MARKINGS SHALL EXTEND FROM THE EDGE OF PAVEMENT TO AT LEAST HALFWAY ACROSS THE PAVEMENT.

SEE MUTCD FOR CONDITION A (PASSIVE TRAFFIC CONTROL SYSTEMS)



NOTES:

- BITUMINOUS PRIME AND TACK COATS WILL BE APPLIED AS LISTED BELOW.
A. PRIME COAT SHALL BE APPLIED AT A RATE OF 0.25 GALLON PER SQUARE YARD TO THE SURFACE OF ALL GRANITE BASE COURSES.
B. TACK COAT SHALL BE APPLIED AT A RATE OF 0.10 GALLONS PER SQUARE YARD TO THE SURFACE OF THE BINDER COURSE BEFORE PLACEMENT OF SURFACE COURSE.
- REFER TO PAVING PLAN FOR LOCATION OF STANDARD AND HEAVY DUTY PAVEMENTS.



A	PROPOSED PAVEMENT LEVELING COURSE--THICKNESS VARIES
B	EXISTING PAVEMENT

PAVEMENT
OVERLAY--NOT TO SCALE