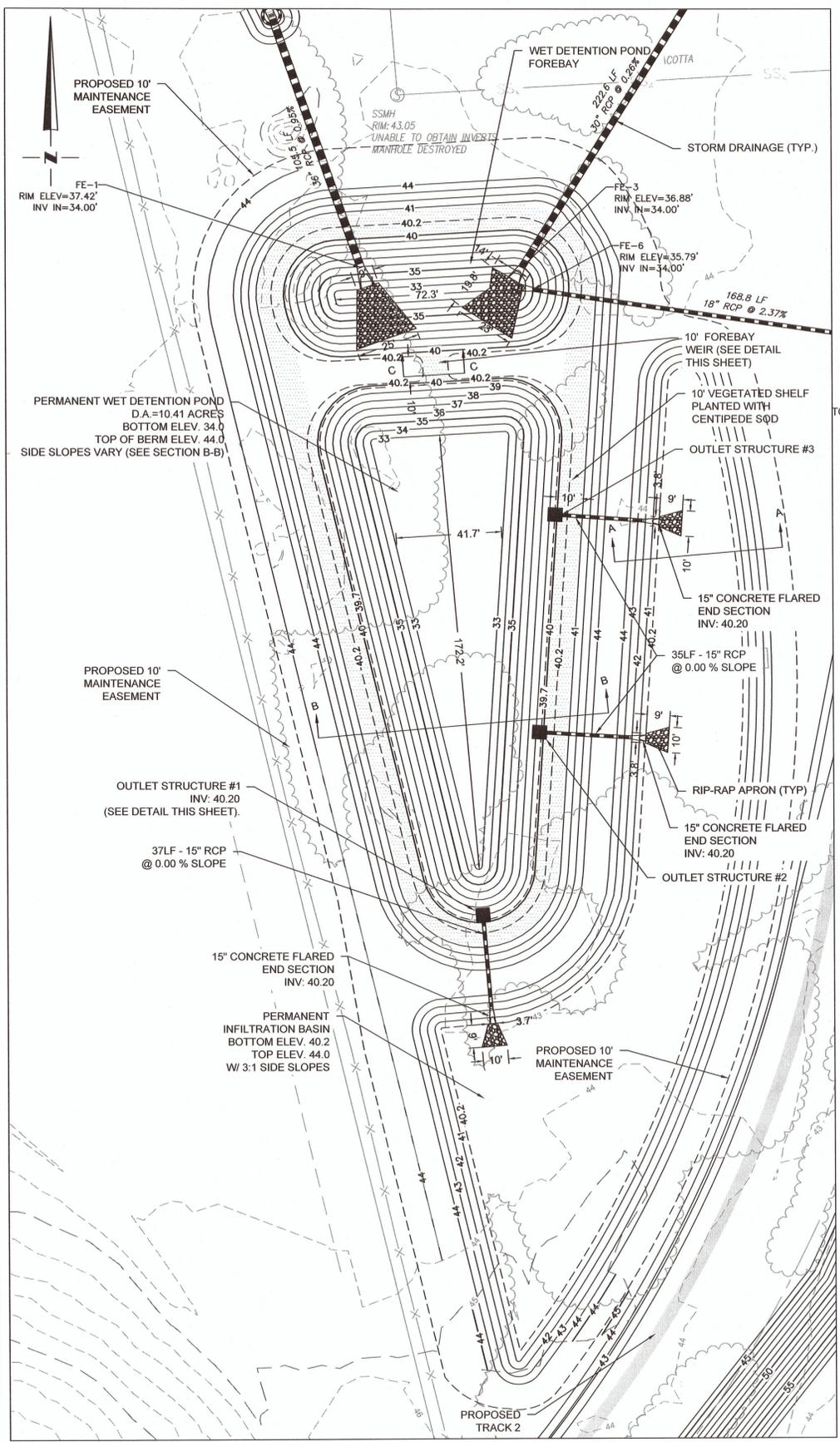
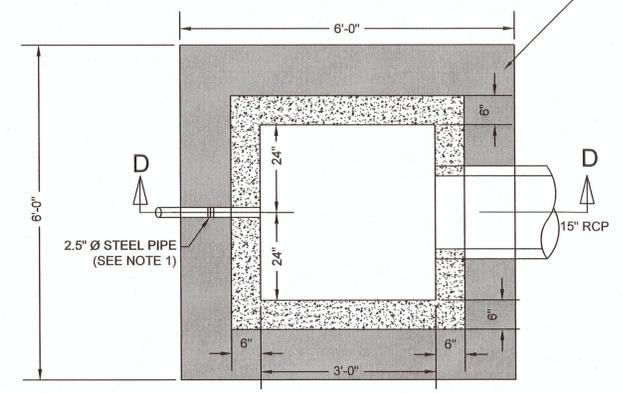
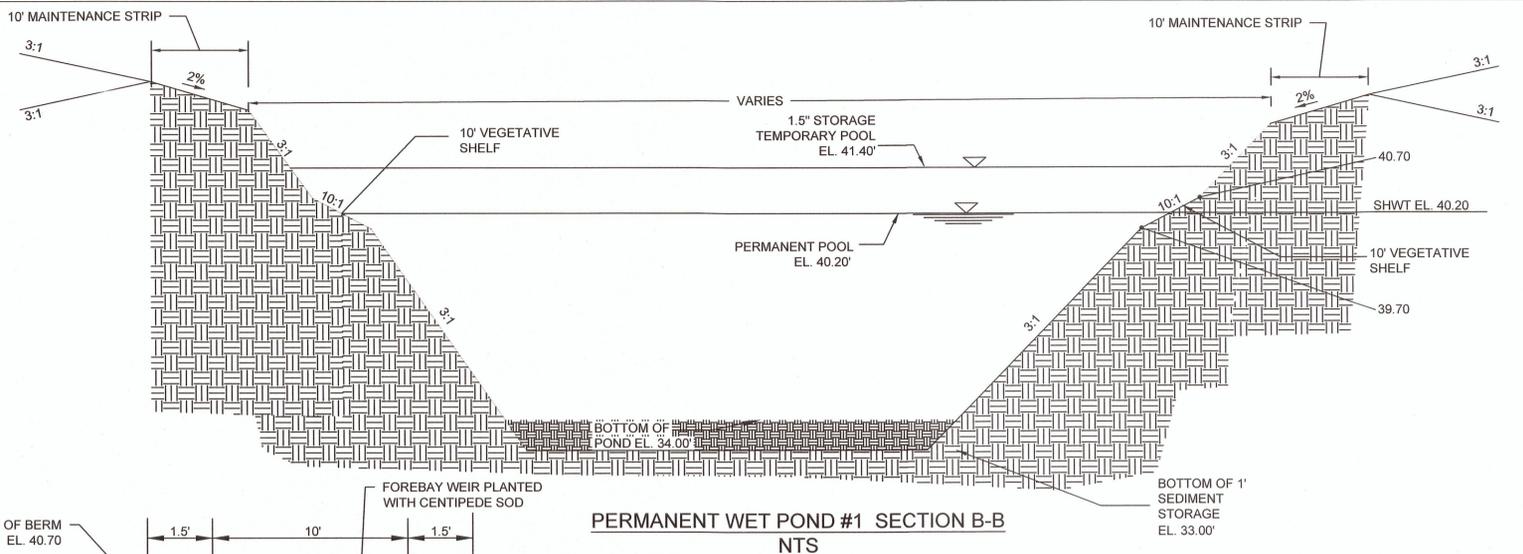


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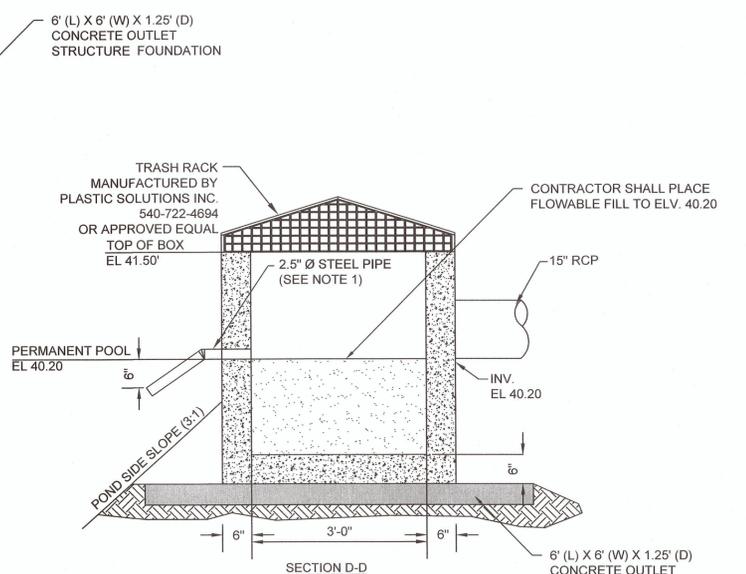


PERMANENT WET POND #1 & INFILTRATION BASIN * INFILTRATION RATE FOR INFILTRATION BASIN: 30"/HR

SCALE: 1" = 30'



OUTLET CONTROL STRUCTURE
NOT TO SCALE



NOTES:
1. 2.5" ORIFICE PIPE SHALL BE INSTALLED ON OUTLET STRUCTURE #1 ONLY. SEE PLAN VIEW THIS SHEET FOR OUTLET STRUCTURE #1 LOCATION.

LEGEND

EXISTING MAJOR CONTOUR	---
EXISTING MINOR CONTOUR	- - - -
PROPOSED MAJOR CONTOUR	---
PROPOSED MINOR CONTOUR	- - - -
PROPOSED WET POND SEEDING	[Hatched Pattern]

- CONSTRUCTION SEQUENCE:**
- ONCE SITE IS STABILIZED, CONTRACTOR SHALL REMOVE SEDIMENT FROM WET POND AND REGRADE TO POD DIMENSIONS INCLUDING 1' SEDIMENT STORAGE AREA PRIOR TO USE AS A STORMWATER POND.
 - CONTRACTOR SHALL INSTALL INFILTRATION BASIN PER PLAN.
 - STORMWATER POND TO BE STABILIZED WITH CENTIPEEDE SOD.
 - CONTRACTOR SHALL PROVIDE SIGN/SEALED AS-BUILT SURVEY OF STORMWATER POND FOLLOWING CONSTRUCTION AND STABILIZATION OF POND.

- NOTES:**
- VERTEX RAILCAR CORPORATION WILL PROVIDE PERPETUAL ACCESS FOR MAINTAINING THE INFILTRATION SWALE.
 - A PUMP WILL BE USED TO DEWATER THE BASIN FOR MAINTENANCE.
 - OPEN BASINS SHALL BE PROVIDED WITH A MINIM 5-FOOT LANDSCAPE ZONE AROUND THE PERIPHERY OF THE POND WHICH HAVE A SURFACE AREA UP TO 0.50 ACRES AS MEASURED FROM THE TOP F THE BANK. A MINIMUM 10-FOOT LANDSCAPED ZONE AS MEASURED OUTWARD FROM THE TOP OF THE BANK SHALL BE PROVIDED FOR PONDS LARGER THAN 0.50 ACRES.
 - INFILTRATION BASIN AND WET POND SHALL BE PLANTED WITH CENTIPEEDE SOD.

Approved Construction Plan

City of Wilmington, North Carolina

Name: _____ Date: _____

Planning: _____

Traffic: _____

Fire: _____

CITY OF WILMINGTON
NORTH CAROLINA

Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit #: _____

Signed: _____

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

WK DICKSON
community infrastructure consultants

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NC LICENSE NO. F-0374

NORTH CAROLINA
PROFESSIONAL SEAL

10257
11/17/15
DANIEL E. DAWSON
ENGINEER
PROFESSIONAL SEAL

REVISION RECORD	DESCRIPTION	DATE	BY

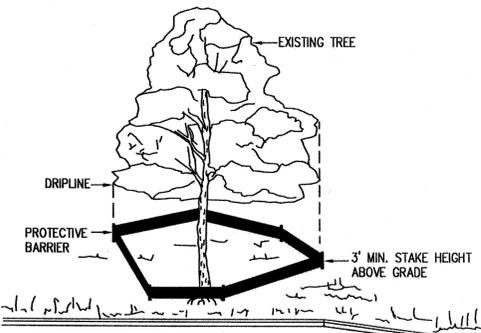
PROJECT NAME: RAIL AND SITE IMPROVEMENTS PHASE 1 FOR VERTEX RAILCAR CORPORATION
202 RALEIGH STREET
WILMINGTON, NORTH CAROLINA 28412

DRAWING TITLE: STORMWATER MANAGEMENT DETAILS

PROJ. MGR.: DLF
DESIGN BY: DED
DRAWN BY: TJC
PROJ. DATE: AUGUST 2015
DRAWING NUMBER: C7.4
WKD PROJ. NO.: 20150016.00.WL

PRELIMINARY - DO NOT USE FOR CONSTRUCTION PLOT DATE: 10/7/2015

CONTRACTOR'S OBLIGATION TO MAINTAIN RECORDS: THE CONTRACTOR SHALL MAINTAIN RECORDS OF THE CONSTRUCTION ACTIVITIES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE RECORDS.



NOTE:
 CLEARLY MARK TREES TO BE SAVED PRIOR TO CONSTRUCTION AND PROVIDE A PROTECTIVE BARRIER AT THE DRIP LINE.
 DRIP LINE - THE AREA OF SOIL DIRECTLY BENEATH THE TREE EXTENDING OUT TO THE TIPS OF THE OUTERMOST BRANCHES.

TREE PROTECTION FENCE
 NOT TO SCALE

EROSION AND SEDIMENT CONTROL NOTES:

1. STABILIZATION MEASURES INCLUDING TEMPORARY GRASSING SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED IN ACCORDANCE WITH THE FOLLOWING:
 - DENUDED AREAS MUST BE STABILIZED WITHIN FIFTEEN (15) WORKING DAYS OF CEASE OF ANY PHASE OF ACTIVITY.
 - ALL SLOPES MUST BE STABILIZED WITHIN TWENTY-ONE (21) CALENDAR DAYS OF CEASE OF ANY PHASE OF ACTIVITY. THIS INCLUDES SLOPES, SWALES, CHANNELS AND STOCKPILES.
2. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED EVERY SEVEN (7) DAYS. IF SITE INSPECTIONS IDENTIFY DEVICES THAT ARE DAMAGED OR ARE NOT OPERATING EFFECTIVELY, MAINTENANCE MUST BE PERFORMED AS SOON AS PRACTICAL OR AS REASONABLY POSSIBLE AND BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE.
3. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED.
4. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFF-SITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
5. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
6. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
7. INLET PROTECTION IS TO BE PROVIDED AT ALL EXISTING INLETS THAT RECEIVE FLOW FROM THE DISTURBED AREAS.
8. CONTRACTOR SHALL PROVIDE ONE STABILIZED CONSTRUCTION ENTRANCE AT ALL TIMES DURING CONSTRUCTION. LOCATION SHALL BE FIELD LOCATED AND COORDINATED WITH THE OWNER.

EROSION CONTROL NOTES

SEEDBED PREPARATION NOTES

1. SURFACE WATER CONTROL MEASURES TO BE INSTALLED ACCORDING TO PLAN. COMPLETE GRADING BEFORE PREPARING SEEDBED.
2. AREAS TO BE SEEDDED SHALL BE RIPPED AND SPREAD WITH AVAILABLE TOPSOIL 3" DEEP ON SLOPES 2:1 OR FLATTER. TOTAL SEEDBED PREPARED DEPTH SHALL BE 4" TO 6" DEEP. IF SOILS ARE COMPACTED DURING GRADING LOOSEN TO A DEPTH OF 6" TO 8".
3. LOOSE ROCKS, ROOTS AND OTHER OBSTRUCTIONS SHALL BE REMOVED FROM THE SURFACE TO PREVENT INTERFERENCE WITH ESTABLISHMENT AND MAINTENANCE OF VEGETATION.
4. APPLY LIME ACCORDING TO SOIL TEST RECOMMENDATIONS. SOILS WITH pH HIGHER THAN 6 NEED NOT BE LIMED. IF pH IS NOT KNOWN, APPLY LIME ACCORDING TO SEEDING SPECIFICATIONS BELOW. APPLY LIMESTONE AND INCORPORATE INTO TOP 4" TO 6" OF SOIL.
5. APPLY FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS. IF NO SOIL TEST HAS BEEN PERFORMED, APPLY FERTILIZER ACCORDING TO SEEDING SPECIFICATIONS BELOW.
6. ROUGHEN SEEDBED SURFACE PRIOR TO APPLICATION. GROOVE OR FURROW SLOPES STEEPER THAN 3:1.
7. FOR TEMPORARY SEEDING OF AREAS WHICH WILL NOT BE BROUGHT TO FINAL GRADE FOR MORE THAN 15 WORKING DAYS, FOLLOW THE TEMPORARY SEEDING SPECIFICATIONS BELOW.

PERMANENT SEEDING SPECIFICATIONS - (PS)

LOW MAINTENANCE AREAS
 STEEP SLOPES OR STONY, SHALLOW OR DRY SOILS

DATES	TYPE	RATE
AUG. 25 - SEPT. 15	TALL FESCUE	100 LB/ACRE
FEB. 15 - MAR. 21	SERICEA LESPEDEZA KOBÉ LESPEDEZA	30 LB/ACRE 10 LB/ACRE

GENTLE SLOPES, AVERAGE SOILS

DATES	TYPE	RATE
AUG. 25 - SEPT. 15	TALL FESCUE	80 LB/ACRE
FEB. 15 - MAR. 21	SERICEA LESPEDEZA KOBÉ LESPEDEZA	20 LB/ACRE 10 LB/ACRE

HIGH MAINTENANCE AREAS
 GENTLE SLOPES, SOILS WITH AVERAGE OR BETTER MOISTURE, COOL SITES

DATES	TYPE	RATE
AUG. 25 - SEPT. 15	BLEND OF TWO TURF-TYPE 200 - 250 LB/ACRE TALL FESCUES (90%) AND TWO OR MORE KENTUCKY BLUEGRASS VARIETIES (10%)	

GENTLE SLOPES, DRIER SOILS, PHYSICAL LIMITATIONS

DATES	TYPE	RATE
AUG. 25 - SEPT. 15	BLEND OF 50% KY-31 TALL200 - 250 LB/ACRE FESCUE AND 50% MIXTURE OF TWO OR MORE TURF TYPE TALL FESCUES	

GRASS-LINED CHANNELS, AVERAGE SOILS

DATES	TYPE	RATE
AUG. 25 - OCT.	TALL FESCUE	200 LB/ACRE OR 4 - 5 LB/1000 SF

GRASS-LINED CHANNELS, DRY SOILS

DATES	TYPE	RATE
APRIL 15 - JUNE 30	COMMON BERMUDA GRASS	40 - 80 LB/ACRE OR 1 - 2 LB/1000 SF

AMENDMENTS SHALL BE APPLIED AT THE RATE OF 4000 LB/ACRE OF GROUND AGRICULTURAL LIMESTONE AND 1000 LB/ACRE OF 10-10-10 FERTILIZER. DRY SOIL, GRASS-LINED CHANNELS SHALL USE 3000 LB/ACRE OF GROUND AGRICULTURAL LIMESTONE AND 500 LB/ACRE OF 10-10-10 FERTILIZER. MULCH SHALL BE APPLIED AT THE RATE OF 4000 LB/ACRE OF STRAW. STRAW SHALL BE ANCHORED BY TACKING WITH ASPHALT. NETTING OR MULCH ANCHORING TOOL, JUTE OR EXCELSIOR MATTING SHALL BE USED IN GRASS LINED CHANNELS TO CALCULATED HIGH WATER DEPTH.

TEMPORARY SEEDING SPECIFICATIONS - (TS)

DATES	TYPE	RATE	AMENDMENTS
JAN. 1 - MAY 1	RYE (GRAIN)	120 LB/ACRE	2000 LB/ACRE GROUND AGRICULTURAL LIME-STONE AND 750 LB/ACRE OF 10-10-10 FERTILIZER
FEB. 15 - MAR. 21	ANNUAL LESPEDEZA OR LOBE	50 LB/ACRE	

DATES	TYPE	RATE	AMENDMENTS
MAY 1 - AUG. 15	GERMAN MILLET	40 LB/ACRE	2000 LB/ACRE GROUND AGRICULTURAL LIME-STONE AND 750 LB/ACRE OF 10-10-10 FERTILIZER

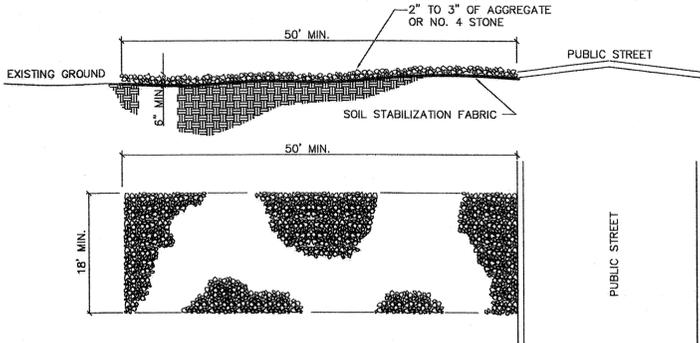
DATES	TYPE	RATE	AMENDMENTS
AUG. 15 - DEC. 30	RYE (GRAIN)	120 LB/ACRE	2000 LB/ACRE GROUND AGRICULTURAL LIME-STONE AND 1000 LB/ACRE OF 10-10-10 FERTILIZER

MULCH SHALL BE APPLIED AT THE RATE OF 4000 LB/ACRE STRAW. STRAW SHALL BE ANCHORED BY TACKING WITH ASPHALT. NETTING OR MULCH ANCHORING TOOL.

GRADED SLOPES AND FILLS - THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE WHICH CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION CONTROL DEVICES OR STRUCTURES. IN ANY EVENT, SLOPES LEFT EXPOSED SHALL, WITHIN 21 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING BE PLANTED OR OTHERWISE PROVIDED WITH GROUND COVER, DEVICES OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION.

GROUND COVER - WHENEVER LAND DISTURBING ACTIVITY IS UNDERTAKEN ON A TRACT COMPRISING MORE THAN ONE ACRE, IF MORE THAN ONE

CONTIGUOUS ACRE IS UNCOVERED A GROUND COVER SUFFICIENT TO RESTRAIN EROSION MUST BE PLANTED OR OTHERWISE PROVIDED WITHIN 21 CALENDAR DAYS ON THAT PORTION OF THE TRACT UPON WHICH FURTHER ACTIVE CONSTRUCTION IS NOT BEING UNDERTAKEN, PROVIDED THAT THIS SHALL NOT APPLY TO CLEARED LAND FORMING THE BASIN OF A RESERVOIR LATER TO BE INUNDATED.

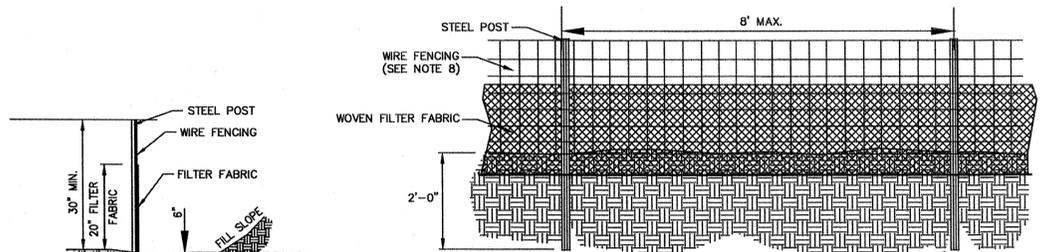


NOTES:

1. A STABILIZED ENTRANCE PAD OF 2" OF 3" AGGREGATE OR NO. 4 STONE SHALL BE LOCATED WHERE TRAFFIC WILL ENTER OR LEAVE THE CONSTRUCTION SITE ONTO A PUBLIC STREET.
2. FILTER FABRIC OR COMPACTED CRUSHER RUN STONE MAY BE USED AS A BASE FOR THE CONSTRUCTION ENTRANCE.
3. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC STREETS OR EXISTING PAVEMENT. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS WARRANT AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
4. ANY SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC STREETS MUST BE REMOVED IMMEDIATELY.
5. WHEN APPROPRIATE, WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTERING A PUBLIC STREET. WHEN WASHING IS REQUIRED, IT SHALL BE DONE IN AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN.
6. SOIL STABILIZATION FABRIC (AS SPECIFIED BY THE DESIGNER) SHALL BE USED.

STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

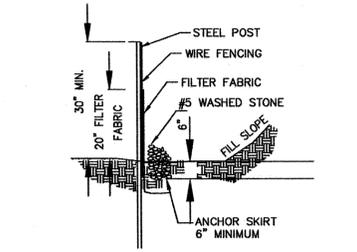


GENERAL NOTES:

1. FILTER FABRIC FENCE SHALL BE A MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
2. WOVEN FILTER FABRIC BE USED WHERE SILT FENCE IS TO REMAIN FOR A PERIOD OF MORE THAN 30 DAYS.
3. STEEL POSTS SHALL BE 5'-0" IN HEIGHT AND BE OF THE SELF-FASTENER ANGLE STEEL TYPE.
4. WIRE FENCING SHALL BE AT LEAST #10 GAGE WITH A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
5. TURN SILT FENCE UP SLOPE AT ENDS.
6. WIRE MESH SHALL BE MIN. 13 GAGE WITH MAXIMUM 12" OPENINGS.
7. WIRE AND WASHED STONE WILL BE REQUIRED AND NOTED ON PLANS WHEN:
 - A. AT TOE OF SLOPES GREATER THAN 10 FEET VERTICAL (2:1 SLOPE)
 - B. AT DENUDED LIMITS WHERE AN UNDISTURBED BUFFER IS 50 FEET OR LESS AWAY
8. IF WIRE FENCING IS NOT USED, PROVIDE MAXIMUM STEEL POST SPACING OF SIX (6) FEET ON CENTERS.

SILT FENCE

NOT TO SCALE



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NORTH CAROLINA PROFESSIONAL SEAL
 10357
 7/19/15
 DWIGHT E. DAWSON
 PROFESSIONAL SEAL

NO.	DATE	DESCRIPTION
2	7/9/2015	RELEASED FOR CONSTRUCTION

RAIL AND SITE IMPROVEMENTS PHASE 1 FOR VERTEX RAILCAR CORPORATION
 202 RALEIGH STREET
 WILMINGTON, NORTH CAROLINA 28412
 PROJECT NAME:
 DRAWING TITLE: MISCELLANEOUS CONSTRUCTION DETAILS

PROJ. MGR.: DLF
 DESIGN BY: DED
 DRAWN BY: TJC
 PROJ. DATE: JULY 2015
 DRAWING NUMBER:
C6.1
 WKD PROJ. NO.:
 20150016.00.WL

WILMINGTON
 Approved Construction Plan
 Name: _____ Date: _____
 Planning: _____
 Traffic: _____
 Fire: _____

WILMINGTON
 Public Services • Engineering Division
 APPROVED STORMWATER MANAGEMENT PLAN
 Date: _____ Permit #: _____
 Signed: _____

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

RELEASED FOR CONSTRUCTION

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GENERAL NOTES

- 1. PROPERTY BOUNDARY FOR AREA TAKEN FROM DEEDS AND MAPS OF RECORD.
2. TOPOGRAPHIC SURVEY BASED ON AERIAL SURVEY ENTITLED "SURVEY AND MAP REPORT FOR A TOPOGRAPHIC SURVEY OF VERTEX SITE, WILMINGTON, NC" COMPLETED BY CAROLINA RESOURCE MAPPING, INC. AND DATED MARCH 4, 2015.
3. FLOOD ZONE X (MINIMAL FLOOD RISK) ACCORDING TO FEMA PANEL MAPS 3720312500J AND 372311500K.
4. ELEVATIONS BASED ON VERTICAL DATUM NAVD 88. HORIZONTAL DATUM - NAD83/2011.
5. LOCATIONS OF UNDERGROUND UTILITIES IS BASED UPON LOCATION OF VISIBLE ABOVE GROUND IMPROVEMENTS, RECORD DRAWINGS AND SUE SURVEY COMPLETED BY ESP ASSOCIATES, P.A. ON APRIL 15, 2015.
6. THE SOIL TYPES PER SOIL SURVEY OF NEW HANOVER COUNTY, NORTH CAROLINA BY THE US DEPARTMENT OF AGRICULTURE AND NATURAL RESOURCE CONSERVATION SERVICE ARE B6 (BAYMEADE FINE SAND), K1 (KUREB SAND), M1 (MURVILLE FINE SAND), AND UR (URBAN LAND).
7. THERE ARE NO CONSERVATION RESOURCES OR ASSOCIATED SETBACKS ON THE SITE.
8. THE CONTRACTOR IS REQUIRED TO OBTAIN ANY/ALL PERMITS REQUIRED FOR CONSTRUCTION OF THESE PLANS.
9. ALL WORK IS TO BE IN ACCORDANCE WITH THE CITY OF WILMINGTON, NEW HANOVER COUNTY AND THE STATE OF NORTH CAROLINA.
10. THE CONTRACTOR IS TO ESTABLISH AND CHECK ALL HORIZONTAL AND VERTICAL CONTROLS TO BE USED WITH THE PROJECT. IN ADDITION, THE CONTRACTOR IS TO COMPUTE THE LAYOUT OF THE ENTIRE SITE PLAN IN ADVANCE OF BEGINNING ANY WORK ASSOCIATED WITH THE SUBJECT PLANS. CONTRACTOR SHALL EMPLOY A PROFESSIONAL SURVEYOR TO PERFORM SITE IMPROVEMENT STAKEOUT(S).
11. ANYTIME WORK IS PERFORMED OFF-SITE OR WITHIN AN EXISTING EASEMENT, THE CONTRACTOR IS TO NOTIFY THE HOLDER OF SAID EASEMENT AS TO THE NATURE OF PROPOSED WORK, AND TO FOLLOW ANY GUIDELINES OR STANDARDS WHICH ARE ASSOCIATED WITH OR REFERENCED IN THE RECORDED EASEMENT.
12. ALL WORK BY THE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A PERIOD OF ONE YEAR AFTER THE OWNER ACCEPTS THE WORK.
13. REASONABLE CARE HAS BEEN EXERCISED IN SHOWING THE LOCATION OF EXISTING UTILITIES ON THE PLANS. THE EXACT LOCATION OF ALL EXISTING UTILITIES IS NOT KNOWN IN ALL CASES. THE CONTRACTOR SHALL EXPLORE THE AREA AHEAD OF DITCHING OPERATIONS BY OBSERVATIONS, ELECTRONIC DEVICES, HAND DIGGING AND BY PERSONAL CONTACT WITH THE UTILITY COMPANIES. IN ORDER TO LOCATE EXISTING UTILITIES IN ADVANCE OF TRENCHING OPERATIONS SO AS TO ELIMINATE OR MINIMIZE DAMAGE TO EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS RESULTING FROM ANY DAMAGE TO THE EXISTING UTILITY LINES INCLUDING LOSS OF UTILITY REVENUES. CONTRACTOR SHALL ARRANGE FOR TEMPORARY SUPPORT OF EXISTING UTILITIES, SUCH AS POLES, CONDUITS, FIBER OPTIC CABLES, TELEPHONE CABLES, WATER LINES, ETC...
14. CONTRACTOR SHALL COMPLY WITH THE LATEST REVISIONS AND INTERPRETATIONS OF THE DEPARTMENT OF LABOR SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION PROMULGATED UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT.
15. CONTRACTOR SHALL PLAN AND CONSTRUCT WORK SO AS TO CAUSE MINIMUM INCONVENIENCE TO THE OWNER AND THE PUBLIC. THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN AT ALL TIMES DURING THE PROGRESS OR TEMPORARY SUSPENSION OF WORK, SUITABLE BARRIERS, FENCES, SIGNS OR OTHER ADEQUATE PROTECTION, INCLUDING FLAGMEN AND WATCHMEN AS NECESSARY TO INSURE THE SAFETY OF THE PUBLIC AS WELL AS THOSE ENGAGED IN THE CONSTRUCTION WORK. CONSTRUCTION SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF "CONSTRUCTION AND MAINTENANCE OPERATIONS SUPPLEMENT TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" BY THE DOT.
16. CONTRACTOR SHALL CALL THE NORTH CAROLINA ONE-CALL CENTER AT 1 (800) 632-4949 AND ALLOW THE CENTER TO LOCATE EXISTING UTILITIES BEFORE DIGGING.
17. THERE ARE NO WETLAND IMPACTS ASSOCIATED WITH THIS PROJECT.

DEMOLITION AND CLEARING NOTES

- 1. PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING SHALL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES. NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
2. ANY TREES AND/OR AREAS DESIGNATED TO BE PROTECTED MUST BE PROPERLY BARRICADED WITH FENCING AND PROTECTED THROUGHOUT CONSTRUCTION TO INSURE THAT NO CLEARING, GRADING OR STAGING OF MATERIALS WILL OCCUR IN THOSE AREAS.
3. NO EQUIPMENT IS ALLOWED ON SITE UNTIL ALL TREE PROTECTION FENCING AND SILT FENCING IS INSTALLED AND APPROVED. PROTECTIVE FENCING IS TO BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT, AND CONTRACTORS SHALL RECEIVE ADEQUATE INSTRUCTION ON TREE PROTECTION METHODS.
4. ALL MATERIAL CLEARED OR DEMOLISHED BY THE CONTRACTOR IN ORDER TO CONSTRUCT THE WORK SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROPERLY DISPOSED OF OFF-SITE.
5. CONTRACTOR TO COORDINATE WITH THE OWNER TO PROPERLY MAINTAIN OR RELOCATE EXISTING SERVICE CONNECTIONS WHEN NECESSARY.
6. CONTRACTOR IS TO WALK THE SITE AND BECOME FAMILIAR WITH THE SCOPE OF CLEARING AND DEMOLITION REQUIRED. ALL CLEARING AND DEMOLITION WORK REQUIRED TO CONSTRUCT NEW SITE IMPROVEMENTS WILL BE PERFORMED BY THE CONTRACTOR AND WILL BE UNCLASSIFIED EXCAVATION.
7. DEMOLITION SHALL INCLUDE BUT IS NOT LIMITED TO THE EXCAVATION, HAULING AND OFFSITE DISPOSAL OF CONCRETE FOUNDATIONS, CONCRETE DITCHES, SLABS, AND STEPS; ABANDONED UTILITIES, BUILDINGS, RAIL, PAVEMENTS AND ALL MATERIALS CLEARED AND STRIPPED TO THE EXTENT NECESSARY AS DIRECTED BY THE SOILS ENGINEER FOR THE INSTALLATION OF THE NEW IMPROVEMENTS AND WITHIN THE LIMITS OF CLEARING AND GRADING AND AS SHOWN ON THESE PLANS.
8. THE CONTRACTOR SHALL PROTECT ALL ADJACENT PROPERTY, STRUCTURES AND UTILITIES ON THE PROPERTY NOT TO BE DEMOLISHED. DAMAGE TO PROPERTIES OF OTHERS DUE TO THE CONTRACTOR'S ACTIVITIES SHALL BE REPLACED IN KIND BY THE CONTRACTOR AT NO COST TO OWNER.
9. ELECTRIC, TELEPHONE, SANITARY SEWER, WATER AND STORM SEWER UTILITIES THAT SERVICE OFF-SITE PROPERTIES SHALL BE MAINTAINED DURING THE CONSTRUCTION PROCESS BY THE CONTRACTOR.
10. THE CONTRACTOR SHALL PRODUCE A PHOTOGRAPHIC RECORD (DIGITAL) OF DEVELOPMENT COMMENCING WITH A RECORD OF THE SITE AS IT APPEARS BEFORE DEMOLITION IS BEGUN. AFTERWARDS, A PHOTOGRAPHIC RECORD SHALL BE MAINTAINED WEEKLY DURING CONSTRUCTION AND ENDING WITH A PHOTOGRAPHIC RECORD OF THE DEVELOPMENT AS IT APPEARS AFTER DEMOLITION. THIS RECORD SHALL BE DELIVERED TO THE OWNER.
11. EXISTING PAVEMENT, CURB AND GUTTER, LIGHTS, SIDEWALK, UTILITIES, ETC. NOT INTENDED FOR DEMOLITION SHALL BE MAINTAINED, PROTECTED AND UNDISTURBED DURING DEMOLITION.
12. CONTRACTOR SHALL COORDINATE RELOCATION OF ALL EXISTING OVERHEAD AND UNDERGROUND UTILITIES INCLUDING CABLE, GAS, TELEPHONE AND ELECTRIC AND ANY OTHER UTILITIES THROUGH THE SITE WITH THE RESPECTIVE UTILITY COMPANIES.
13. PROVIDE SMOOTH SAW CUT OF EXISTING PAVEMENTS, CURBS AND GUTTERS AND SIDEWALKS TO BE DEMOLISHED.
14. ALL DEMOLITION WORK SHALL BE DONE IN STRICT ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS AS WELL AS OSHA REGULATIONS.

SITE NOTES

- 1. TRAFFIC CONTROL DEVICES INCLUDING SIGNS AND PAVEMENT MARKINGS IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS.
2. ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
3. CALL TRAFFIC ENGINEERING AT 910-341-7888 FORTY-EIGHT (48) HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT-OF-WAY.
4. TRAFFIC ENGINEERING MUST APPROVE OF PAVEMENT MARKING PRIOR TO ACTUAL STRIPING.
5. ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.
6. ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
7. STOP SIGNS AND STREET SIGNS TO REMAIN IN PLACE DURING CONSTRUCTION.
8. TACTILE WARNING MATS WILL BE INSTALLED ON ALL WHEELCHAIR RAMPS.
9. ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND CURBING IN THE CITY OF WILMINGTON RIGHT OF WAY WILL BE REPLACED.
10. CONTACT TRAFFIC ENGINEERING AT 910-341-7888 TO DISCUSS STREET LIGHTING OPTIONS.
11. CONTRACTOR SHALL MAINTAIN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
12. NO OBSTRUCTIONS ARE PERMITTED IN THE SPACE BETWEEN THIRTY (30) INCHES AND TEN (10) FEET ABOVE THE GROUND WITHIN THE TRIANGULAR SITE DISTANCE.
13. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH PERMITS ISSUED AND ALL FEDERAL, STATE AND LOCAL CODES.
14. ANY DISCREPANCY IN THIS PLAN AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO START OF CONSTRUCTION. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL SETBACKS, EASEMENTS AND DIMENSIONS SHOWN HEREON BEFORE BEGINNING CONSTRUCTION.
15. THE GENERAL CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, UTILITIES AND R.O.W.'S PUBLIC OR PRIVATE, PRIOR TO WORKING IN THESE AREAS.
16. CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMEN AND PUBLIC SHALL BE PROTECTED FROM INJURY, AND ADJOINING PROPERTY PROTECTED FROM DAMAGE.
17. ACCESS TO UTILITIES, FIRE HYDRANTS, STREET LIGHTING, ETC., SHALL REMAIN UNDISTURBED, UNLESS COORDINATED WITH THE RESPECTIVE UTILITY.
18. DO NOT SCALE THESE DRAWINGS AS THEY ARE REPRODUCTIONS AND SUBJECT TO DISTORTION.
19. THE GENERAL CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE SITE UPON COMPLETION OF THE PROJECT AND AT LEAST ONCE A WEEK DURING CONSTRUCTION.
20. THE GENERAL CONTRACTOR SHALL KEEP THE AREA OUTSIDE THE "CONSTRUCTION LIMITS" BROOM CLEAN AT ALL TIMES.
21. ALL UTILITIES TO SERVICE BUILDING SHALL BE UNDERGROUND ON SITE.
22. ALL STREET SURFACES, DRIVEWAYS, CULVERTS, CURB AND GUTTERS, ROADSIDE DRAINAGE DITCHES AND OTHER STRUCTURES THAT ARE DISTURBED OR DAMAGED IN ANY MANNER AS A RESULT OF CONSTRUCTION SHALL BE REPLACED OR REPAIRED IN ACCORDANCE WITH THE SPECIFICATIONS.
23. CONTRACTOR SHALL MAINTAIN AN "AS-BUILT" SET OF DRAWINGS TO RECORD THE EXACT LOCATION OF ALL PIPING PRIOR TO CONCEALMENT. DRAWINGS SHALL BE GIVEN TO THE OWNER UPON COMPLETION OF THE PROJECT WITH A COPY OF THE TRANSMITTAL LETTER TO THE ENGINEER.
24. IF DEPARTURES FROM THE SPECIFICATIONS OR DRAWINGS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THEREOF SHALL BE GIVEN TO THE OWNER FOR REVIEW. NO DEPARTURES FROM THE CONTRACT DOCUMENTS SHALL BE MADE WITHOUT THE PERMISSION OF THE OWNER.
25. ALL DIMENSIONS AND RADII ARE TO OUTSIDE FACE OF BUILDING OR TO EDGE OF THE PAVEMENT UNLESS OTHERWISE NOTED.
26. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL INSPECTIONS, CERTIFICATIONS, EQUIPMENT, ETC., THAT MAY BE REQUIRED.
27. THE ENGINEER AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS AND METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.
28. ALL WEATHER ACCESS ROAD MUST BE MAINTAINED AROUND CONSTRUCTION SITE AT ALL TIMES.

UTILITY NOTES

- 1. A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET. CONTACT 341-5888 FOR PERMIT DETAILS.
2. ALL UTILITIES TO SERVICE BUILDING SHALL BE INSTALLED UNDERGROUND, EXCEPT WHERE SUCH PLACEMENT IS PROHIBITED OR DEEMED IMPRACTICAL BY THE UTILITY PROVIDER. UNDERGROUND TERMINAL FACILITIES FOR STREET LIGHTING ALONG ALL PUBLIC STREETS ABUTTING THE SUBJECT SITE SHALL BE INSTALLED BY THE DEVELOPER.
3. WATER AND SEWER SERVICE SHALL MEET CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) DETAILS AND SPECIFICATIONS.
4. PROJECT SHALL COMPLY WITH CFPUA CROSS CONNECTION CONTROL REQUIREMENTS. WATER METER(S) CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND THE STATE HAS GIVEN THEIR FINAL APPROVAL. CALL 910-343-3910 FOR INFORMATION.
5. IF THE CONTRACTOR DESIRES CFPUA WATER FOR CONSTRUCTION, HE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE ON THE DEVELOPER'S SIDE OF THE WATER METER BOX.

- 6. ANY IRRIGATION SYSTEM SUPPLIED BY CFPUA WATER SHALL COMPLY WITH THE CFPUA CROSS CONNECTION CONTROL REGULATIONS. CALL 910-343-3910 FOR INFORMATION.
7. ANY IRRIGATION SYSTEM SHALL BE EQUIPPED WITH A RAIN AND FREEZER SENSOR.
8. ANY BACKFLOW PREVENTION DEVICES REQUIRED BY THE CFPUA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USCFCCHHR OR ASSE.
9. CONTRACTOR TO FIELD VERIFY EXISTING WATER AND SEWER SERVICE LOCATIONS, SIZES AND MATERIALS PRIOR TO CONSTRUCTION. ENGINEER TO BE NOTIFIED OF ANY CONFLICTS.
10. UNDERGROUND FIRE LINE(S) MUST BE PERMITTED AND INSPECTED BY THE WILMINGTON FIRE DEPARTMENT FROM THE PUBLIC RIGHT-OF-WAY TO THE BUILDING. CONTACT THE WILMINGTON FIRE DEPARTMENT DIVISION OF FIRE AND LIFE SAFETY AT 910-341-0696.
11. THE GENERAL CONTRACTOR SHALL CONFIRM ALL NEW UTILITY TAP LOCATIONS WITH THE UTILITY OWNERS.
12. UNDERGROUND CONDUITS SHALL BE PLACED IN GRASS OR LANDSCAPE AREAS WHENEVER POSSIBLE. THE LOCATION OF THE CONDUIT SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD. PVC SCH. 40 SLEEVES SHALL BE INSTALLED FOR ALL CONDUIT CROSSINGS UNDER PAVED AREAS.
13. ALL WATER LINES SHALL HAVE FINAL COVER DEPTH OF 3'-0".
14. ALL SEWER LINES SHALL HAVE A FINAL COVER DEPTH OF 3'-0".
15. CONTRACTORS SHALL NOTIFY OPERATORS WHO MAINTAIN UNDERGROUND UTILITY LINES IN THE AREA OF PROPOSED CONSTRUCTION AT LEAST TWO WORKING DAYS, BUT NOT MORE THAN TEN WORKING DAYS PRIOR TO ANY EXCAVATION OR DEMOLITION.
16. CONTRACTOR TO LOCATE EXISTING UNDERGROUND UTILITIES AT WATERLINE CROSSINGS AND USE FITTINGS AND BENDS AS NECESSARY TO AVOID CONFLICTS.
17. CONTRACTOR TO SUPPORT AND/OR BRACE EXISTING UNDERGROUND UTILITIES AS NECESSARY TO CONSTRUCT PROPOSED UTILITY CONNECTIONS.
18. NEW HYDRANTS MUST BE BROUGHT INTO SERVICE PRIOR TO COMBUSTIBLE MATERIALS BEING DELIVERED TO THE JOB SITE.

DRAINAGE NOTES

- 1. ALL STORM SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF WILMINGTON & NCDOT SPECIFICATIONS AS SPECIFIED ON THE DRAWINGS AND IN THE PROJECT SPECIFICATIONS.
2. BEDDING FOR ALL STORM SEWER PIPES SHALL BE AS SPECIFIED IN THE DETAILS AND SPECIFICATIONS UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
3. ALL STORM SEWER PIPES SHOWN AS RCP ON THE PLANS SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM C-76, UNLESS INDICATED OTHERWISE ON PLANS.



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NC LICENSE NO.F-0374



Table with columns: REVISION RECORD, DESCRIPTION, DED, BY, TRC, COMMENTS, DATE, NO.

RAIL AND SITE IMPROVEMENTS PHASE 1
FOR
VERTEX RAILCAR CORPORATION
202 RALEIGH STREET
WILMINGTON, NORTH CAROLINA 28412
GENERAL NOTES
DRAWING TITLE:

PROJ. MGR.: DLF
DESIGN BY: DED
DRAWN BY: TJC
PROJ. DATE: AUGUST 2015
DRAWING NUMBER:

C1.2
WKD PROJ. NO.:
20150016.00.WL

PRELIMINARY - DO NOT USE FOR CONSTRUCTION PLOT DATE: 9/28/2015

Approved Construction Plan
Name
Date
Planning
Traffic
Fire

APPROVED STORMWATER MANAGEMENT PLAN
Date: Permit #
Signed:

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

SITE INFORMATION

PROJECT ADDRESS: 202 RALEIGH STREET
 NEW HANOVER COUNTY P.I.N.: R06500-007-037-000
 CURRENT ZONING DISTRICT: IND - INDUSTRIAL DISTRICT
 CURRENT LAND USE: MANUFACTURING
 LOT SIZE: 2,978,197.20 SF (68.37 ACRES)

BUILDING SIZE:
 EXISTING BUILDINGS: 502,427 SF
 BUILDING 1: 368,144 SF
 BUILDING 2: 52,668 SF
 BUILDING 3: 70,400 SF
 BUILDING 4: 2,975 SF
 BUILDING 5: 8,240 SF

TOTAL BUILDING AREA: 502,427 SF
 % BUILDING LOT COVERAGE: 0.17%

$(502,427 \text{ SF} / 2,978,197.20 \text{ SF}) = 0.17\%$

OFF STREET PARKING CALCULATIONS (1 SPACE PER 1,500 GSF):

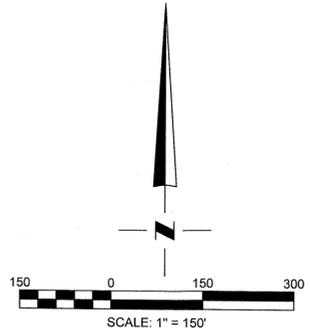
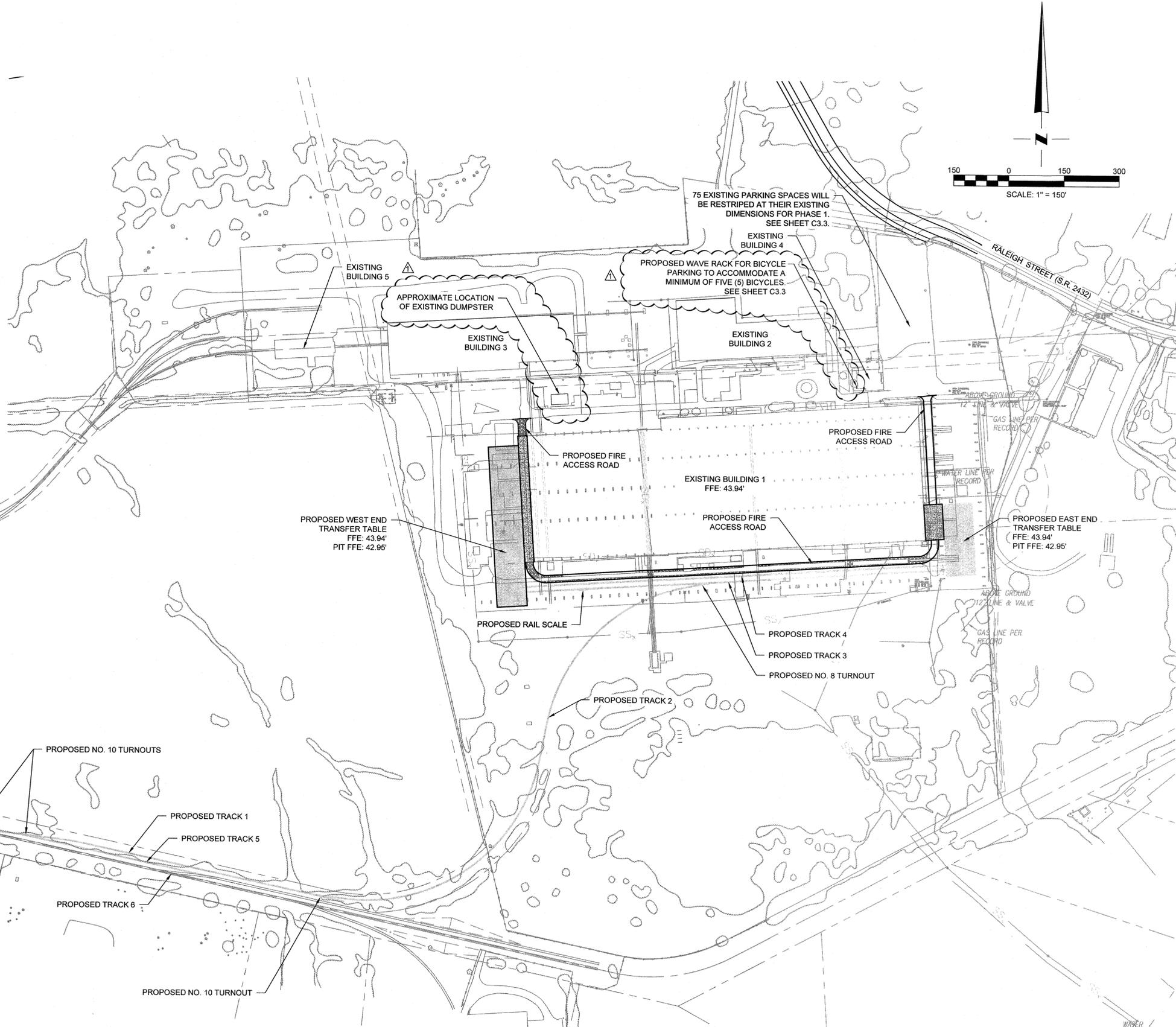
BUILDING AREA: 502,427 SF
 PARKING SPACES REQUIRED: 502,427 SF / 1,500 SF = 335 SPACES
 PARKING SPACES PROVIDED: 459 EXISTING PARKING SPACES*

*75 EXISTING PARKING SPACES WILL BE RESTRIPTED AT THEIR EXISTING DIMENSIONS FOR PHASE 1 SEE SHEET C3.3.

HANDICAP PARKING SPACES REQUIRED: 3 PARKING SPACES
 HANDICAP PARKING SPACES PROVIDED: 4 PARKING SPACES
 BICYCLE PARKING SPACES REQUIRED: 5 PARKING SPACES
 BICYCLE PARKING SPACES PROVIDED: 5 PARKING SPACES

CAMA LAND USE CLASSIFICATION: URBAN

RECEIVING STREAM, CLASS & INDEX: CAPE FEAR RIVER; SC; 18-(71)



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PROFESSIONAL SEAL
 NORTH CAROLINA
 PROFESSIONAL SEAL
 10357
 6/1/14
 ENGINEER
 DANIEL E. DAWSON
 PROFESSIONAL SEAL

NO.	DATE	TRC COMMENTS	DESCRIPTION	DED	BY
1	8/26/2015				

PROJECT NAME: RAIL AND SITE IMPROVEMENTS PHASE 1 FOR VERTX RAILCAR CORPORATION 202 RALEIGH STREET WILMINGTON, NORTH CAROLINA 28412
 DRAWING TITLE: OVERALL SITE PLAN

PROJ. MGR.: DLF
 DESIGN BY: DED
 DRAWN BY: TJC
 PROJ. DATE: AUGUST 2015
 DRAWING NUMBER: **C3.0**
 WKD PROJ. NO.: 20150016.00.WL

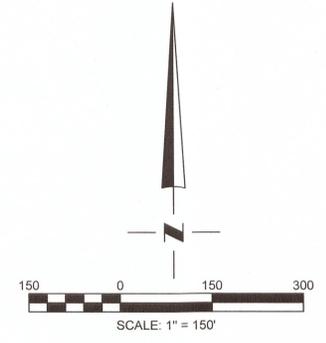
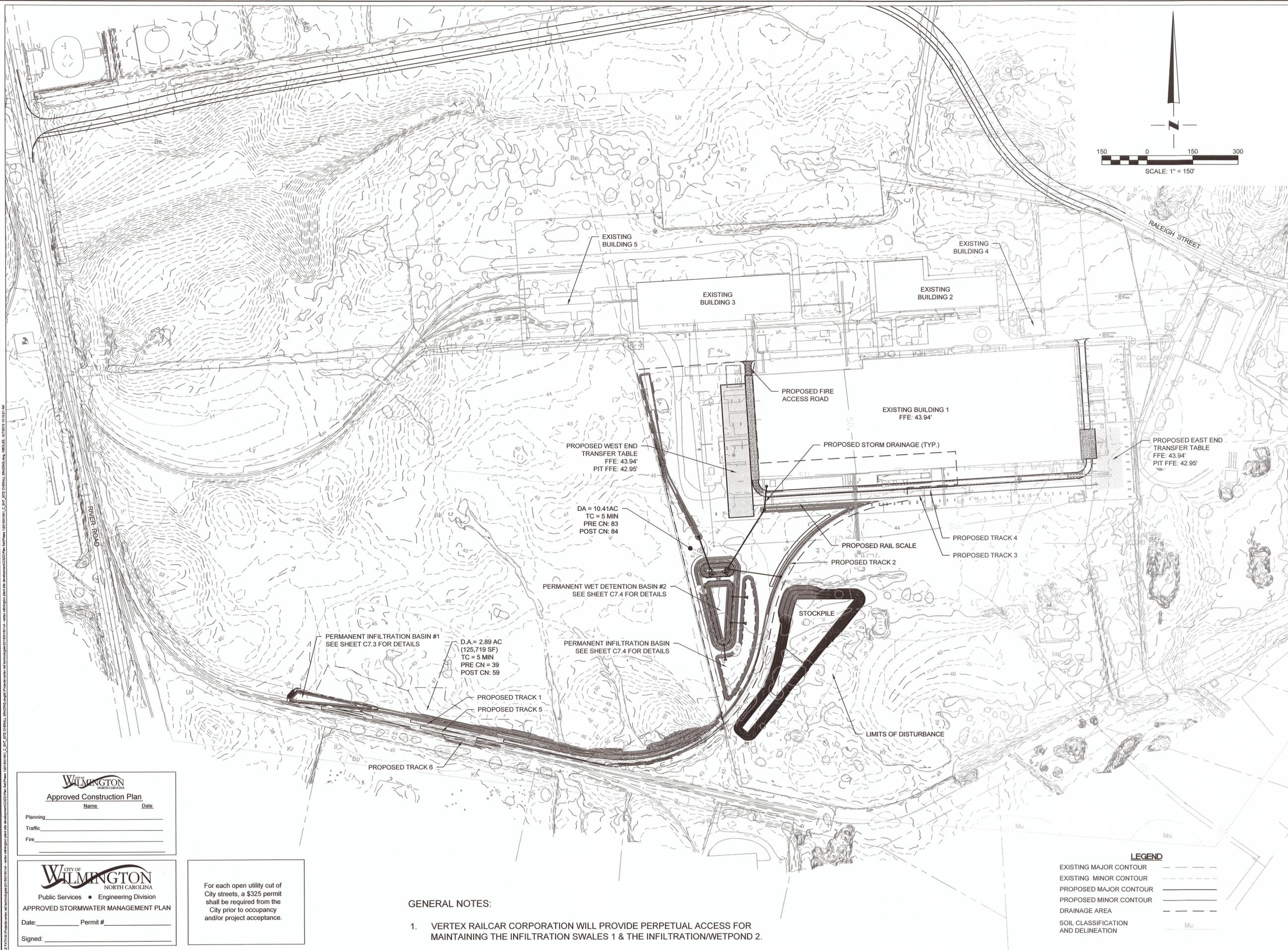
City of WILMINGTON
 Approved Construction Plan
 Name: _____ Date: _____
 Planning: _____
 Traffic: _____
 Fire: _____

City of WILMINGTON
 NORTH CAROLINA
 Public Services • Engineering Division
 APPROVED STORMWATER MANAGEMENT PLAN
 Date: _____ Permit # _____
 Signed: _____

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

PRELIMINARY - DO NOT USE FOR CONSTRUCTION PLOT DATE: 10/1/2015

CITY OF WILMINGTON, NORTH CAROLINA
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NO.	DATE	DESCRIPTION

PROJECT NAME: RAIL AND SITE IMPROVEMENTS PHASE 1
 FOR VERTEX RAILCAR CORPORATION
 202 RALEIGH STREET
 WILMINGTON, NORTH CAROLINA 28412
 DRAWING TITLE: OVERALL GRADING AND DRAINAGE PLAN

PROJ. MGR.: DLF
 DESIGN BY: DED
 DRAWN BY: TJC
 PROJ. DATE: AUGUST 2015
 DRAWING NUMBER: **C5.0**
 WKD PROJ. NO.: 20150016.00.WL

City of WILMINGTON
 Approved Construction Plan
 Name: _____ Date: _____
 Planning: _____
 Traffic: _____
 Fire: _____

City of WILMINGTON
 NORTH CAROLINA
 Public Services • Engineering Division
 APPROVED STORMWATER MANAGEMENT PLAN
 Date: _____ Permit # _____
 Signed: _____

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

- GENERAL NOTES:**
1. VERTEX RAILCAR CORPORATION WILL PROVIDE PERPETUAL ACCESS FOR MAINTAINING THE INFILTRATION SWALES 1 & THE INFILTRATION/WETPOND 2.

PRELIMINARY - DO NOT USE FOR CONSTRUCTION PLOT DATE: 10/7/2015

