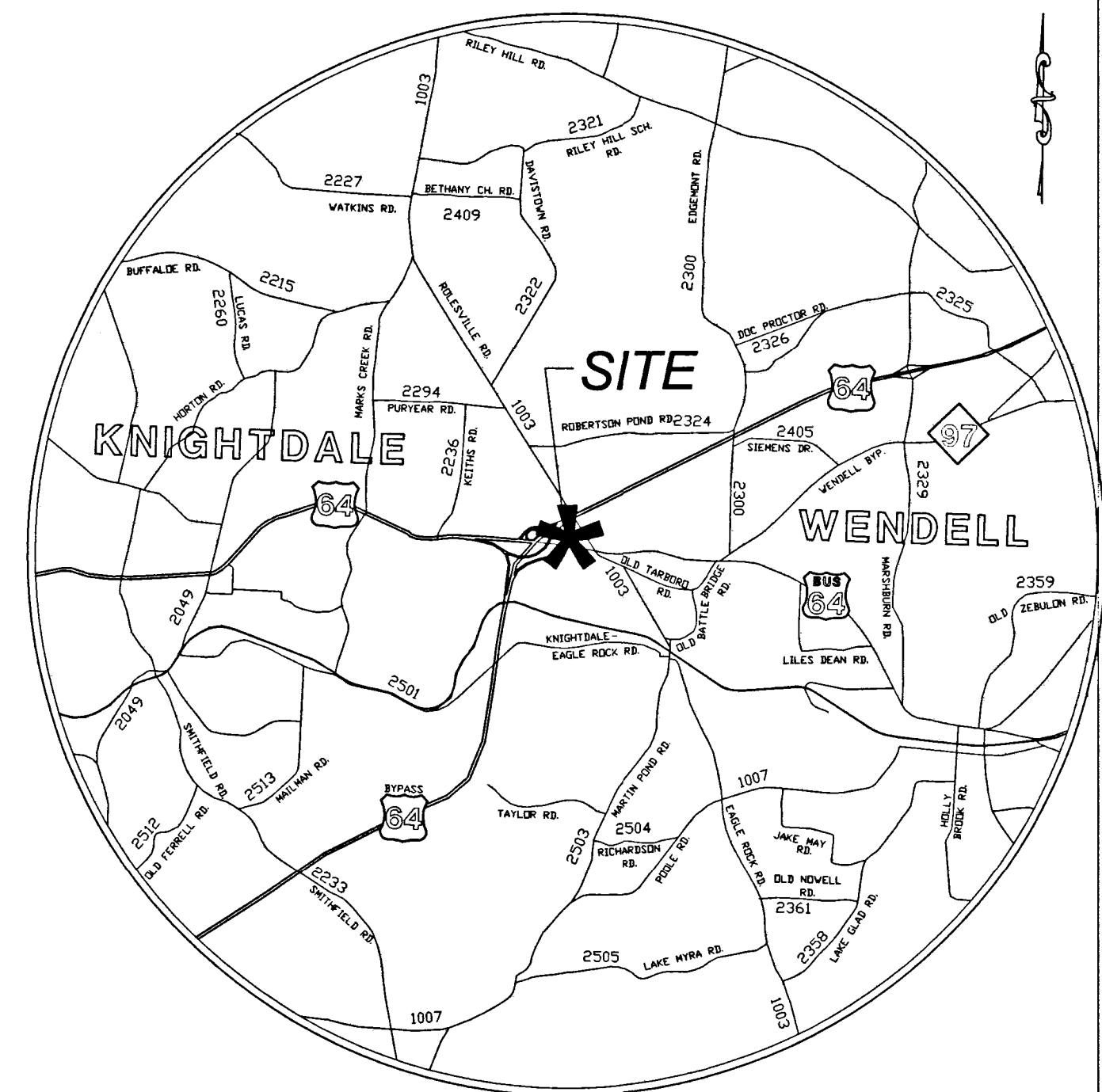




VICINITY MAP
NTS

- NOTES:
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 2. BOUNDARY INFORMATION IS TAKEN FROM A SURVEY BY CAPITAL SURVEY, INC.
 3. CONTOURS ARE FIELD SURVEYED.
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 5. NO WETLANDS EXIST ON SITE.
 6. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING UTILITIES.
 7. ALL DISTANCES ARE TO BACK OF CURB AND FACE OF BUILDING UNLESS OTHERWISE SPECIFIED.
 8. THE DEVELOPER WILL BE RESPONSIBLE FOR ALL INSTALLATION COST ASSOCIATED WITH STREET LIGHTING. THE DEVELOPER SHALL CONTACT PROGRESS ENERGY-CAROLINA POWER & LIGHT IN ORDER TO DEVELOP A STREET LIGHTING PLAN FOR THE SITE SUBDIVISION PLANS PRIOR TO CONSTRUCTION.
 9. ALL EASEMENTS SHALL BE MAINTAINED BY THE PROPERTY OWNER.

SPIRAL	TYPE	LENGTH	RADIUS
SPIRAL CURVE #1	Offset	206.25'	1148.29'

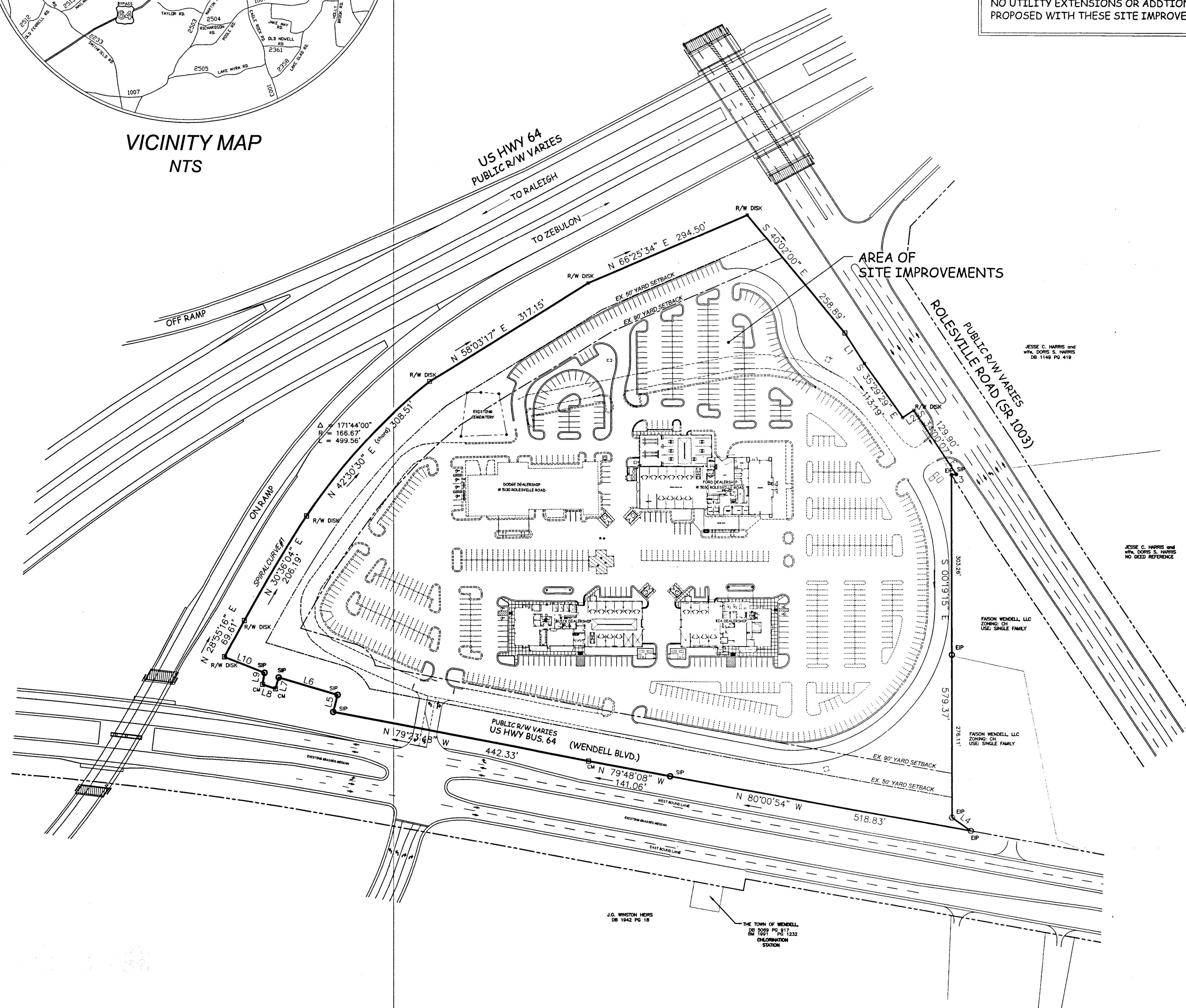
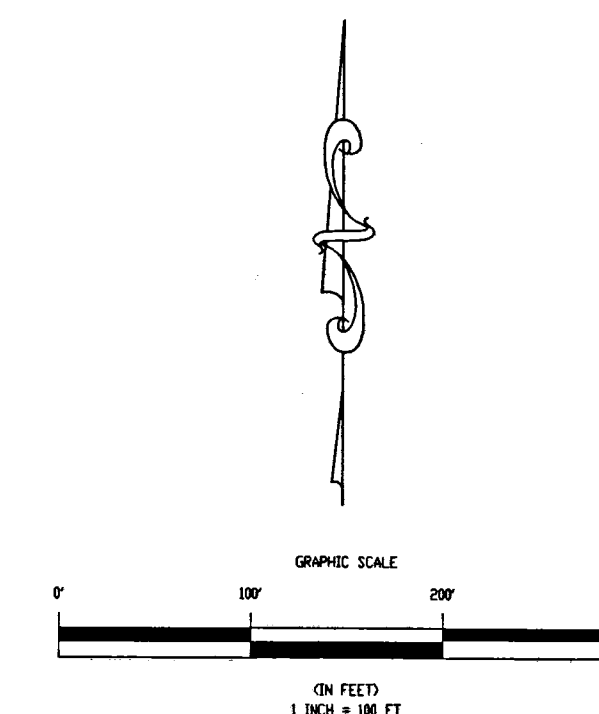
LINE	DIRECTION	DISTANCE
L1	S 32°49'38" E	61.23'
L2	N 56°09'10" E	22.33'
L3	S 83°23'36" W	8.00'
L4	S 55°04'56" E	39.08'
L5	N 14°12'47" E	29.73'
L6	N 75°53'47" W	104.57'
L7	S 15°57'41" W	19.91'
L8	N 71°25'19" W	23.07'
L9	N 09°10'31" E	19.88'
L10	N 68°49'32" W	73.31'

UTILITY NOTE:
NO UTILITY EXTENSIONS OR ADDITIONS ARE
PROPOSED WITH THESE SITE IMPROVEMENTS.

SITE DATA

OWNER: MLC AUTOMOTIVE, LLC
5601 CAPITAL BLVD.
RALEIGH, NC 27616

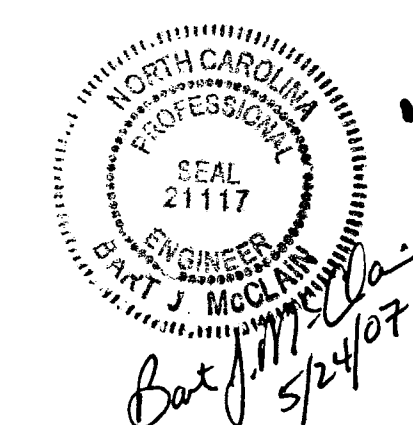
TOTAL NUMBER OF LOTS: 1
TOTAL ACREAGE: 18.85 Acres
ZONING: CH
DRAINAGE BASIN: NEUSE
EXISTING USE: AUTOMOBILE
SALES/SERVICE
PROPOSED BUILDING SF: 0.00 SF
EXISTING IMPERVIOUS AREA: 11.99 Ac (63.61%)
PROPOSED IMPERVIOUS AREA: 1.20 Ac
TOTAL IMPERVIOUS AREA: 13.19 Ac (69.97%)
TOTAL DENUDED AREA: 2.71 Ac.
WAKE COUNTY PIN #: 1774-08-9357



SHEET NO.	DESCRIPTION
CS - 1	COVER
CS - 2	SITE PLAN
CS - 3	GRADING / DRAINAGE / EROSION CONTROL PLAN
CS - 4	DETAILS
L - 1	PLANTING PLAN
L - 2	PLANT LIST & DETAILS

Wm. G. Daniel & Assoc.
Engineering Planning
Site Design

1150 SE MAYNARD ROAD
SUITE 260
CARY, NC 27511
(919) 467-9708



Revisions
2nd Revision

OWNER:
MLC Automotive, LLC
5601 Capital Blvd.
Raleigh, NC 27616
(919) 876-5432

Project
Leith Auto Park East
Site Improvements

Cover

Date
April 3, 2007

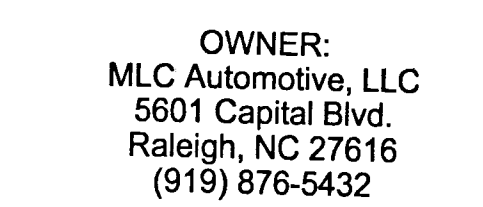
Scale
1" = 100'

Sheet

CS - 1

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Engineering Planning
Site Design
1150 SE MAYNARD ROAD
SUITE 260
CARY, NC 27511
(919) 467-9708



Leith Auto Park East Site Improvements

Date
April 3, 2007

Sheet

Leith Auto Park East - Site Improvements
For Construction
Wendell, North Carolina
Storm Chart (10 Year Event)

Calculated: MAY 15, 2007
Revised:

DOWNSTREAM STRUCTURE	UPSTREAM STRUCTURE	TOP ELEV.	PIPE SEGMENT DATA					UPSTREAM					INVERT	INVERT
		UPSTREAM STRUCTURE	DIA. (in)	LTH (ft)	PIPE TYPE	% TOTAL	AREA (ac)	AREA (ac) IND	C	I (IN/HR)	Q(TOT) (CFS)	Q(IND) (CFS)	DOWNSTRM STRUCTURE	UPSTRM STRUCTURE
			EXISTING 15" RCP											
JB 1	CB 2	343.00	15	43.37	RCP	2.31	0.15	0.15	0.75	7.22	0.81	0.81	339.00	340.00
FES 10	CB 11	340.68	15	80.00	RCP	1.00	0.49	0.49	0.75	7.22	2.65	2.65	336.20	337.00

ALL STRUCTURES TO BE BUILT IN COMPLIANCE WITH CURRENT TOWN OF WENDELL STANDARDS.
CB IS CATCH BASIN; YI IS YARD INLET; FES IS FLARED END SECTION
HW IS HEADWALL - NCDOT STD. 838.11; DIP IS DUCTILE IRON PIPE;
ALL CMP PIPE TO BE FULLY ASPHALT COATED.
JB IS JUNCTION BOX WITH MANHOLE FRAME AND COVER.
HDPE TO BE SMOOTH INTERIOR ADS N-12 OR EQUAL
ELEVATION GIVEN IS FOR INVERT OF HW AND FES, TOP OF CASTING FOR YI, TOP OF CURB FOR CB.

CUSTOM BASIN DESIGN DATA

RIP-RAP BASIN #4
Drainage Area = 1.4 Ac.
S.A. Req'd = 1,539 SF
Dim. = 22'Wx70'Lx2'D
Weir = 10'

RIP-RAP BASIN #5
Drainage Area = 1.1 Ac.
S.A. Req'd = 1,209 SF
Dim. = 20'Wx62'Lx2'D
Weir = 10'

DRAINAGE BASIN: NEUSE
DENUDED AREA: 2.71 Ac.

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SLOPE STABILIZATION REQUIREMENTS:

- 3:1 AND FLATTER — GRASS
3:1 to 2:1 — SLOPE ADAPTIVE PLANTS (SHRUBS AND VINES)
2:1 to 1.5:1 — RIP-RAP
STEEPER THAN 1.5:1 — RETAINING WALL

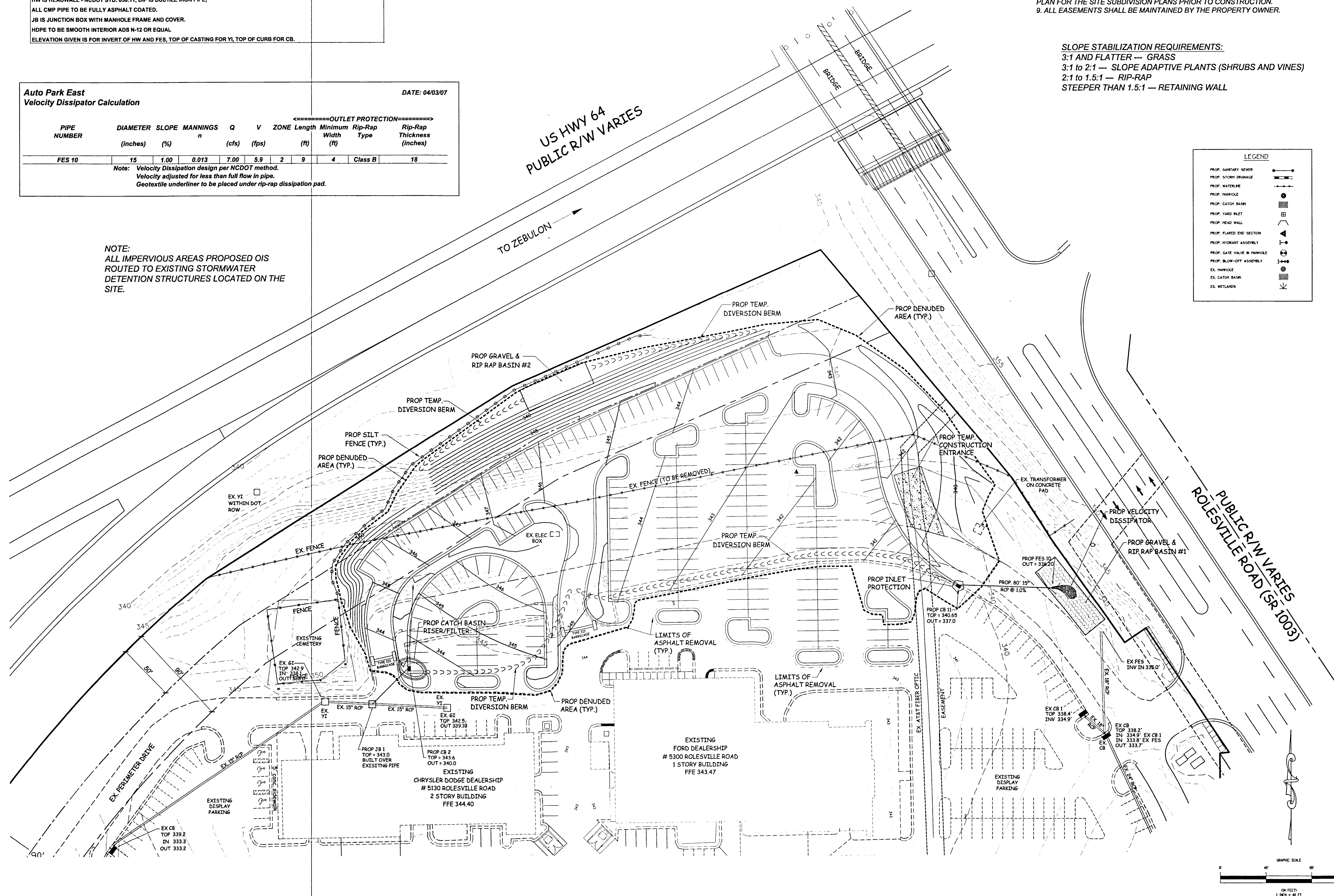
Auto Park East
Velocity Dissipator Calculation

DATE: 04/03/07

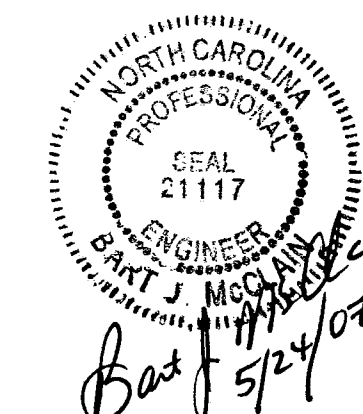
PIPE NUMBER	DIAMETER (inches)	SLOPE (%)	MANNINGS n	Q (cfs)	V (fps)	OUTLET PROTECTION					Rip-Rap Thickness (inches)
						ZONE	Length (ft)	Minimum Width (ft)	Rip-Rap Type		
FES 10	15	1.00	0.013	7.00	5.9	2	9	4	Class B	18	
Note: Velocity Dissipation design per NCDOT method. Velocity adjusted for less than full flow in pipe. Geotextile underliner to be placed under rip-rap dissipation pad.											

Note: Velocity Dissipation design per NCDOT method.
Velocity adjusted for less than full flow in pipe.
Geotextile underliner to be placed under rip-rap dissipation pad.

NOTE:
ALL IMPERVIOUS AREAS PROPOSED OIS
ROUTED TO EXISTING STORMWATER
DETENTION STRUCTURES LOCATED ON THE
SITE.



Wm. G. Daniel & Assoc.
Engineering Planning
Site Design
1150 SE MAYNARD ROAD
SUITE 260
CARY, NC 27511
(919) 467-9708



Revisions

OWNER:
MLC Automotive, LLC
5601 Capital Blvd.
Raleigh, NC 27616
(919) 876-5432

Project

Leith Auto Park East
Site Improvements

Grading / Drainage /
Erosion Control Plan

Date

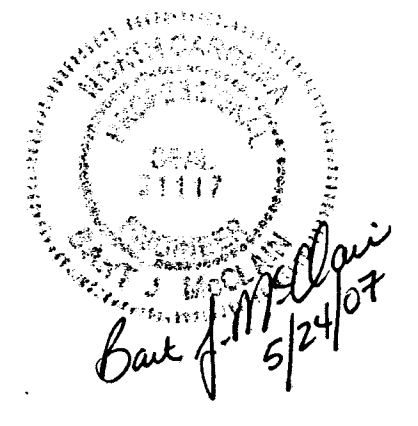
April 3, 2007

Scale

1" = 40'

Sheet

CS - 3



Revisions

Seeding Schedule
(Revised: 1-1-86)

Date	Type	Planting Rate
Aug.15-Nov.1	Tall Fescue	300 lbs./acre
Nov.1-Mar.1	Tall Fescue & Abruzzi Rye	300 lbs./acre
Mar.1-Apr.15	Tall Fescue	300 lbs./acre
Apr.15-Jun.30	Hulled Common Bermudagrass	25 lbs./acre
Jul.1-Aug.15	Tall Fescue and ***Browntop Millet *** or Sorghum-Sudan Hybrids	120 lbs./acre 35 lbs./acre 30 lbs./acre

Slopes (3:1 to 2:1)

Date	Type	Planting Rate
Mar.1-Jun.1	Secirica Lespedeza (Scarified)	50 lbs./acre
(Mar.1-Apr.15)	Add Tall Fescue	120 lbs./acre
(Mar.1-Jun.30)	Or Add Weeping Lovegrass	10 lbs./acre
(Mar.1-June 30)	Or Add Hulled Common Bermudagrass	25 lbs./acre
Jun.1-Sep.1	*** Tall Fescue and ** Browntop Millet *** Or Sorghum-sudan Hybrids	120 lbs./acre 35 lbs./acre 70 lbs./acre
Sep.1-Mar.1 (Nov.1-Mar.1)	Secirica Lespedeza (unhulled-unscarified) and Tall Fescue Add Abruzzi Rye	120 lbs./acre 25 lbs./acre

Consult Conservation Engineer or Soil Conservation Service for additional information concerning other alternatives for vegetation of denuded areas. The above vegetation rates are those which do well under local conditions; other seeding rate combinations are possible.

*** Temporary - Reseed according to optimum season for desired permanent vegetation. Do not allow temporary cover to grow 12" in height before mowing, otherwise fescue may be shaded out.

Seeding Preparation

- 1.) Chisel compacted areas and spread topsoil 3 inches deep over adverse soil conditions, if available.
 - 2.) Rip the entire area to 6 inches depth.
 - 3.) Remove all loose rock, roots, and other obstructions leaving surface reasonably smooth and uniform.
 - 4.) Apply agricultural lime, fertilizer, and superphosphate uniformly and mix with soil (see below).
 - 5.) Continue tillage until a well-pulverized, firm, reasonably uniform seedbed is prepared 4 to 6 inches deep.
 - 6.) Seed on a freshly prepared seedbed and cover seed lightly with seeding equipment or outspread after seeding.
 - 7.) Mulch immediately after seeding and anchor mulch.
 - 8.) Inspect all seeded areas and make necessary repairs or reseeds within the planting season, if possible. If stand should be over 60% damaged, reestablish following original lime, fertilizer and seeding rates.
 - 9.) Consult Conservation Inspector on maintenance treatment and fertilization after permanent cover is established.
- * Apply: Agricultural Limestone - 2 tons/acre (3 tons/acre in clay soils)
Fertilizer - 1,000 lbs./acre - 10-10-10
Superphosphate - 500 lbs./acre - 20% analysis
Mulch - 2 tons/acre - small grain straw
Anchor - Asphalt Emulsion @ 300 gals./acre

CONSTRUCTION SEQUENCE

1. Schedule a pre-construction conference with the Environmental Engineer, Debbie Greene (856-7413). Obtain a land-disturbing permit.
2. Install gravel construction pad, temporary diversions, silt fence, sediment basins or other measures as shown on the approved plan. Clear only as necessary to install these devices. Seed temporary diversions, berms and basins immediately after construction.
3. Call Debbie Greene (856-7413) for onsite inspection by the Environmental Engineer to obtain a Certificate of Compliance.
4. Begin clearing and grubbing. Maintain devices as needed. Rough grade site.
5. Install storm sewer, if shown, and protect inlets with block and gravel inlet controls, sediment traps or other approved measures as shown on the plan. Begin construction, building, etc.
6. Stabilize site as areas are brought up to finish grade with vegetation, paving, ditch linings, etc. Seed and mulch denuded areas within fifteen (15) days of completion of any phase of construction.
7. When construction is complete and all areas are stabilized completely, call Debbie Greene (856-7413) for an inspection by the Environmental Engineer.
8. If site is approved, remove temporary diversions, silt fence, sediment basins, etc., and seed out or stabilize any resulting bare areas. All remaining permanent erosion control devices, such as velocity dissipators, should now be installed.
9. When vegetation has become established, call for a final site inspection by the Environmental Engineer, Debbie Greene (856-7413). Obtain a Certificate of Completion.

Project

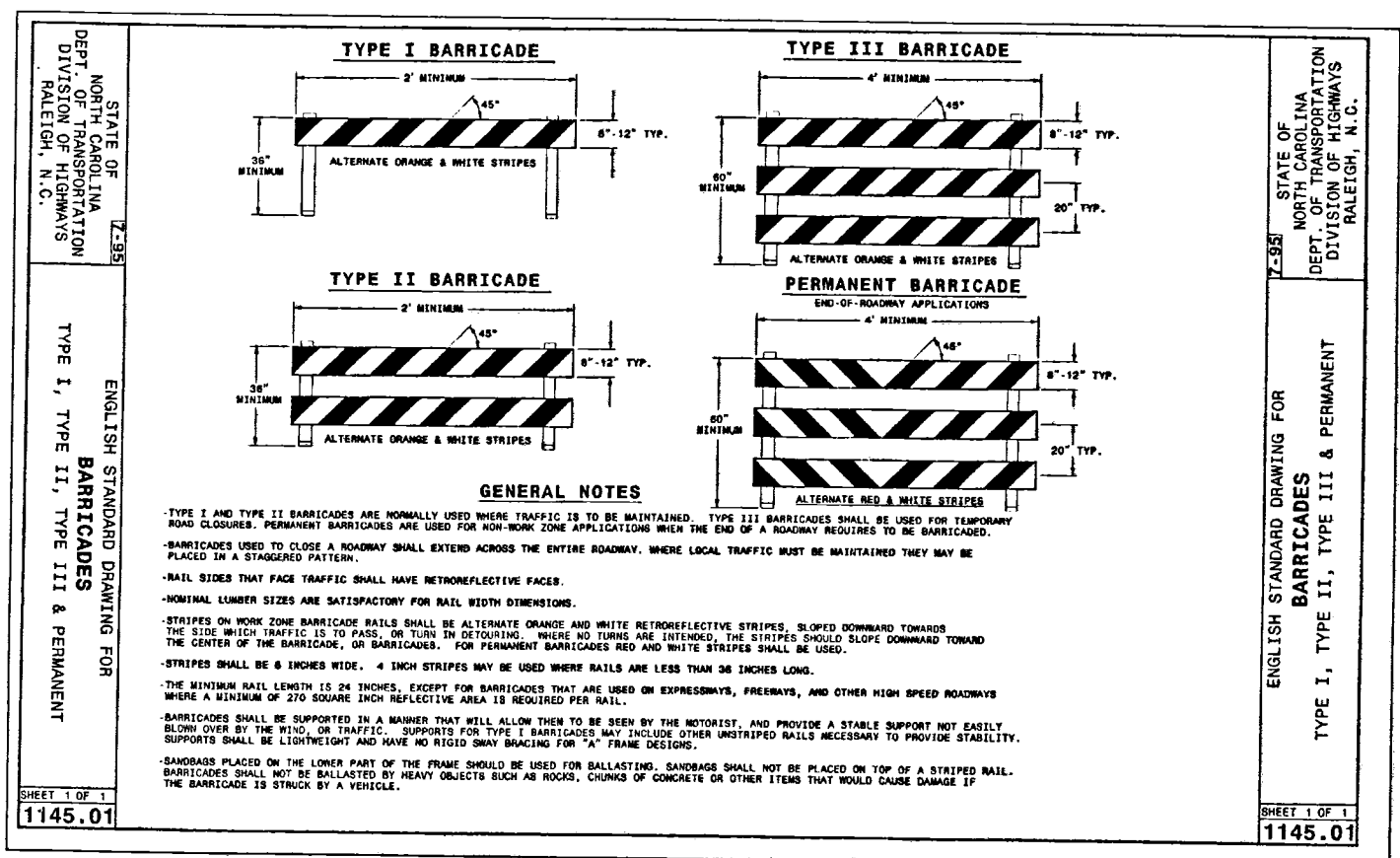
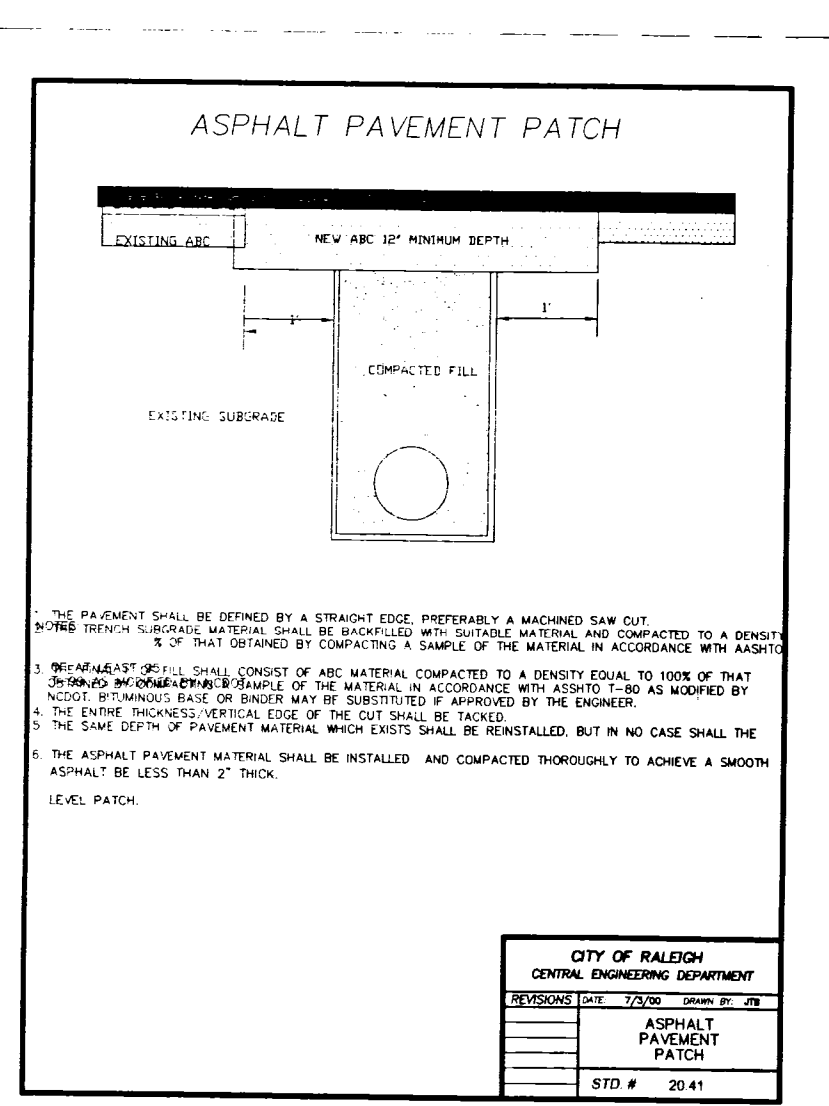
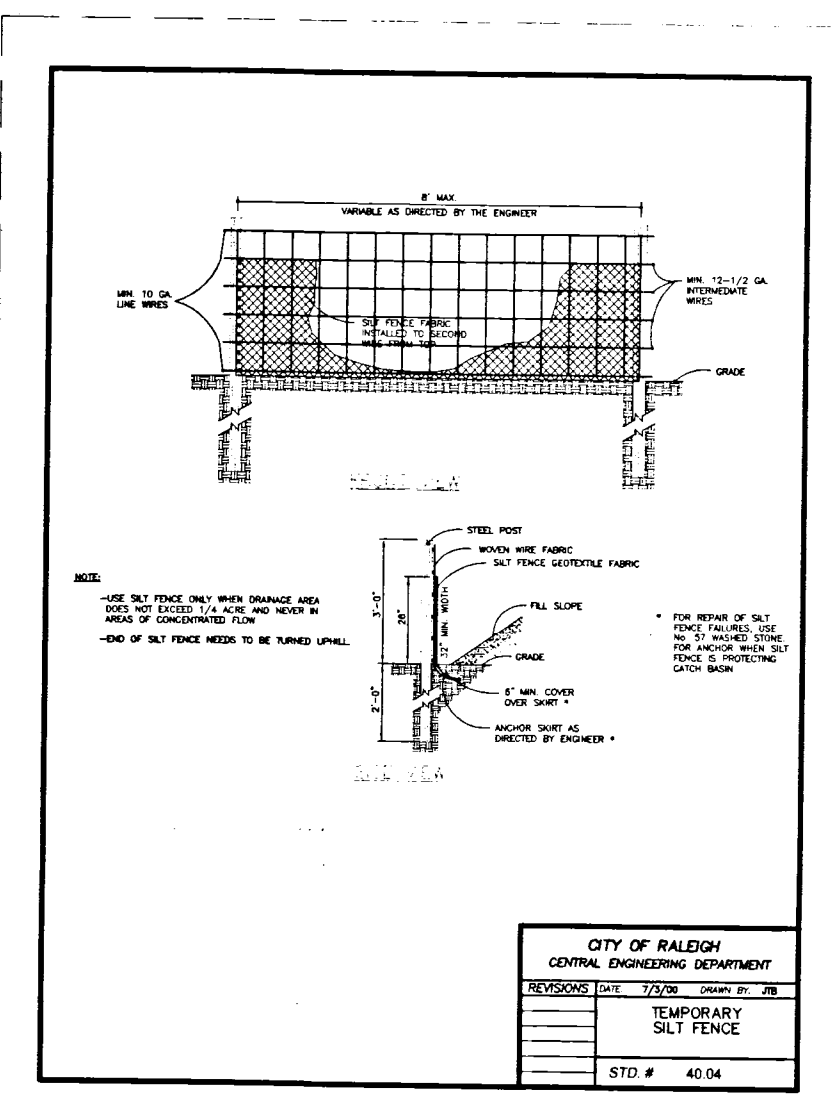
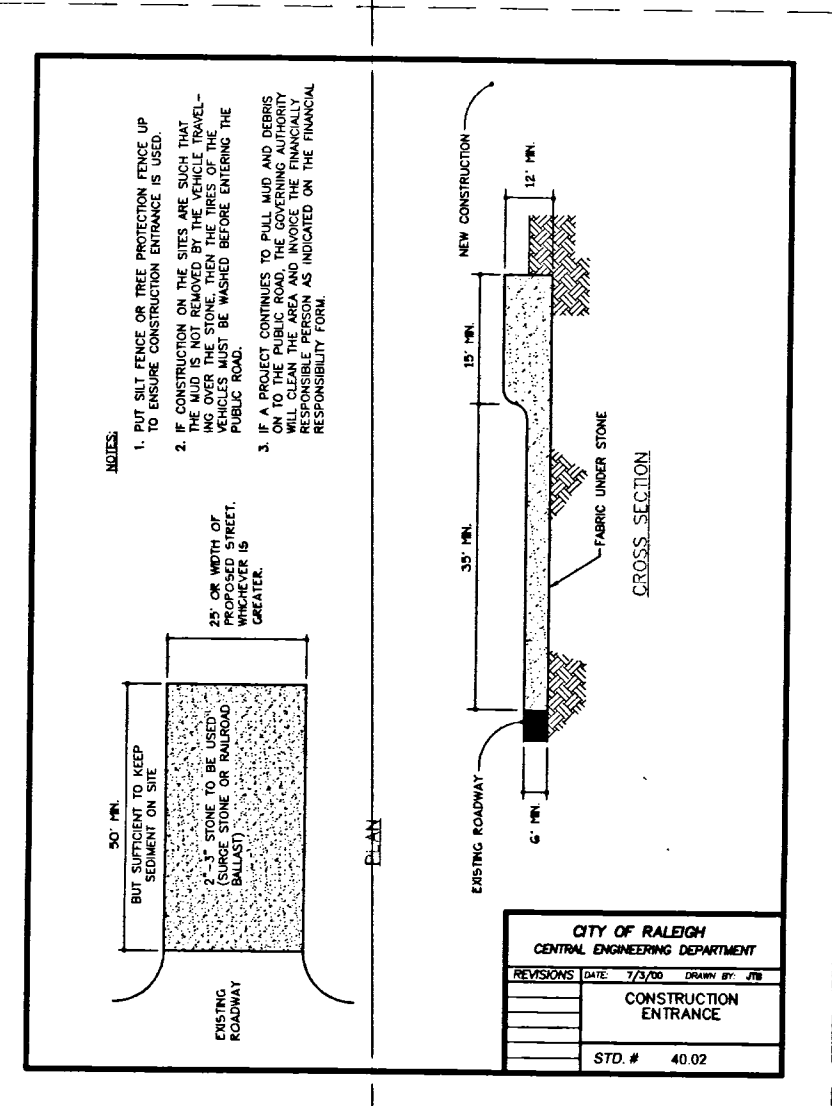
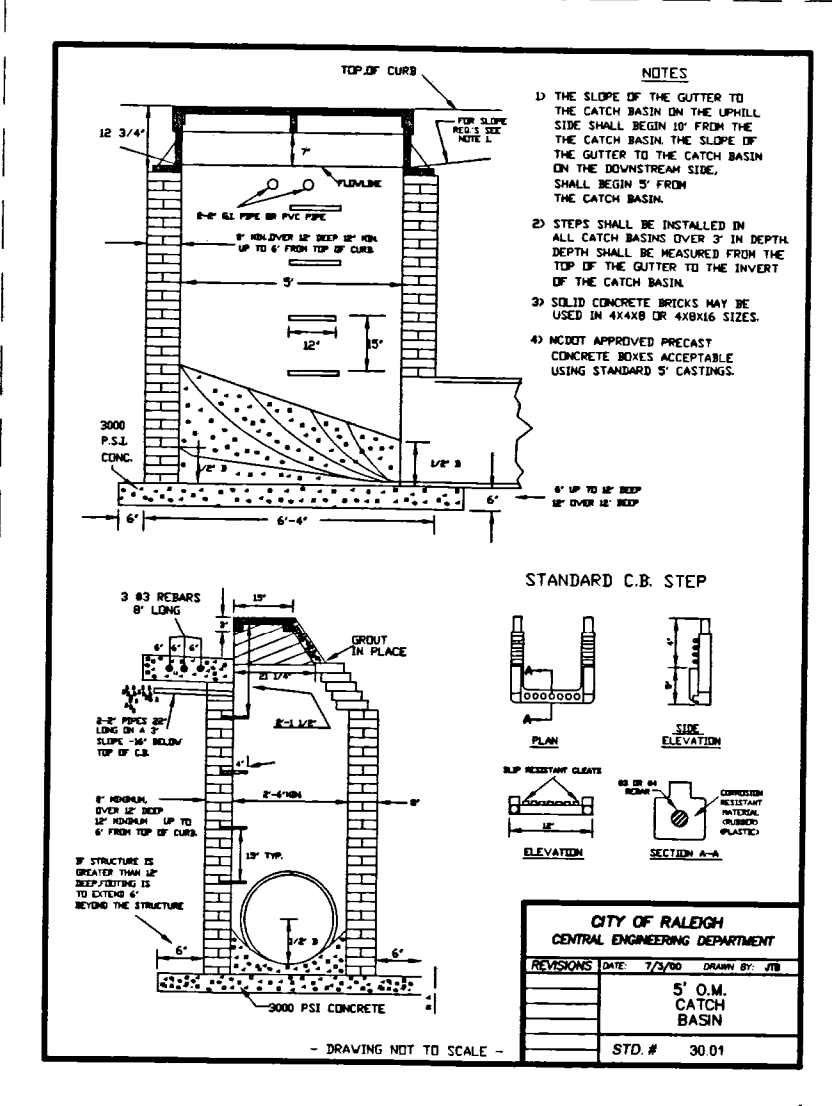
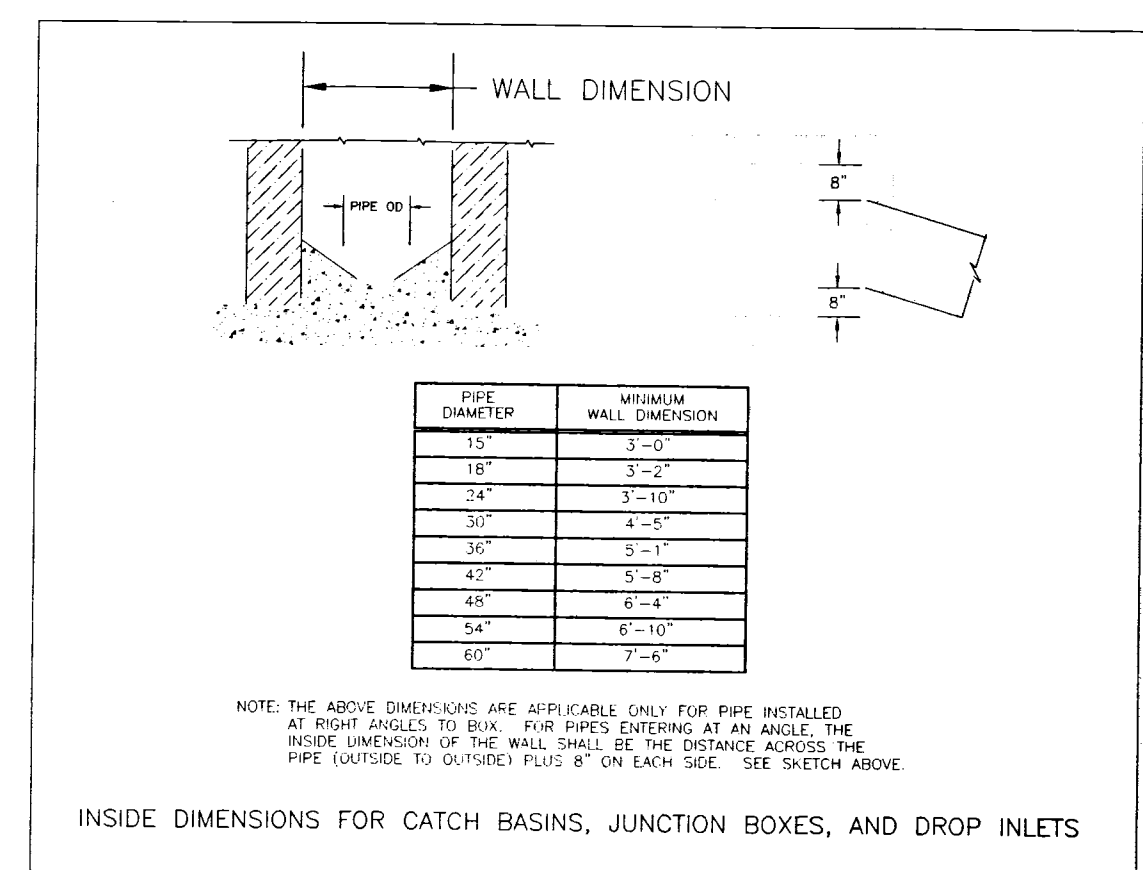
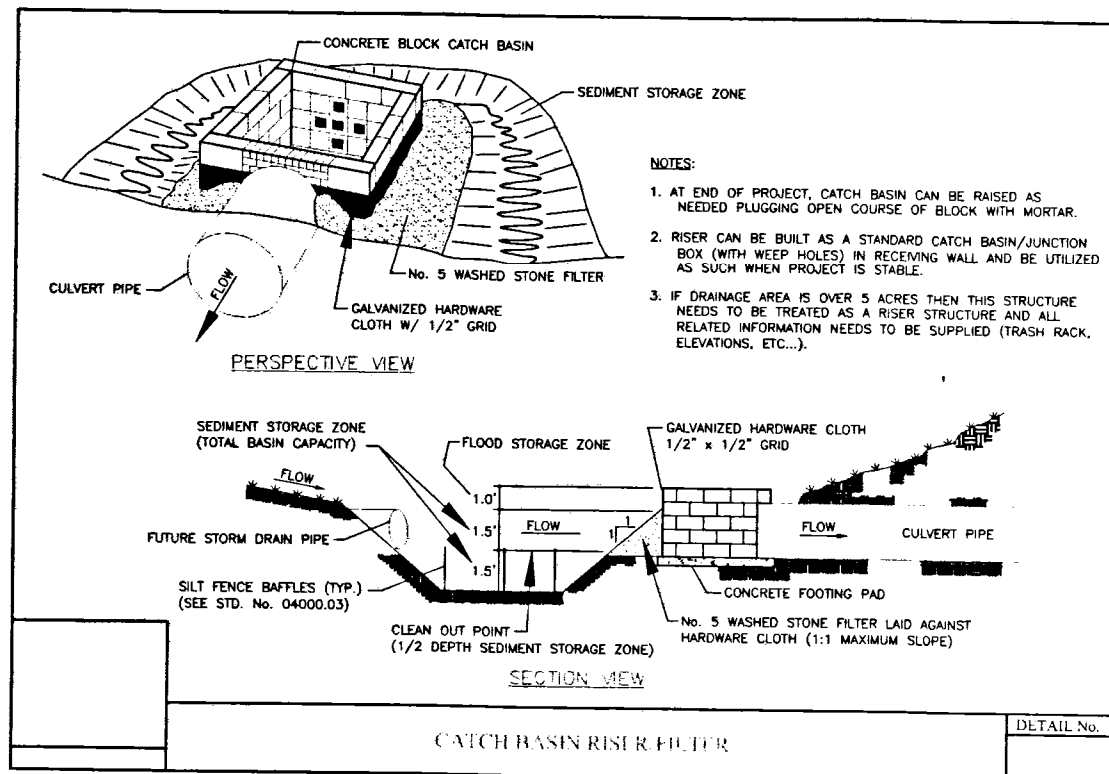
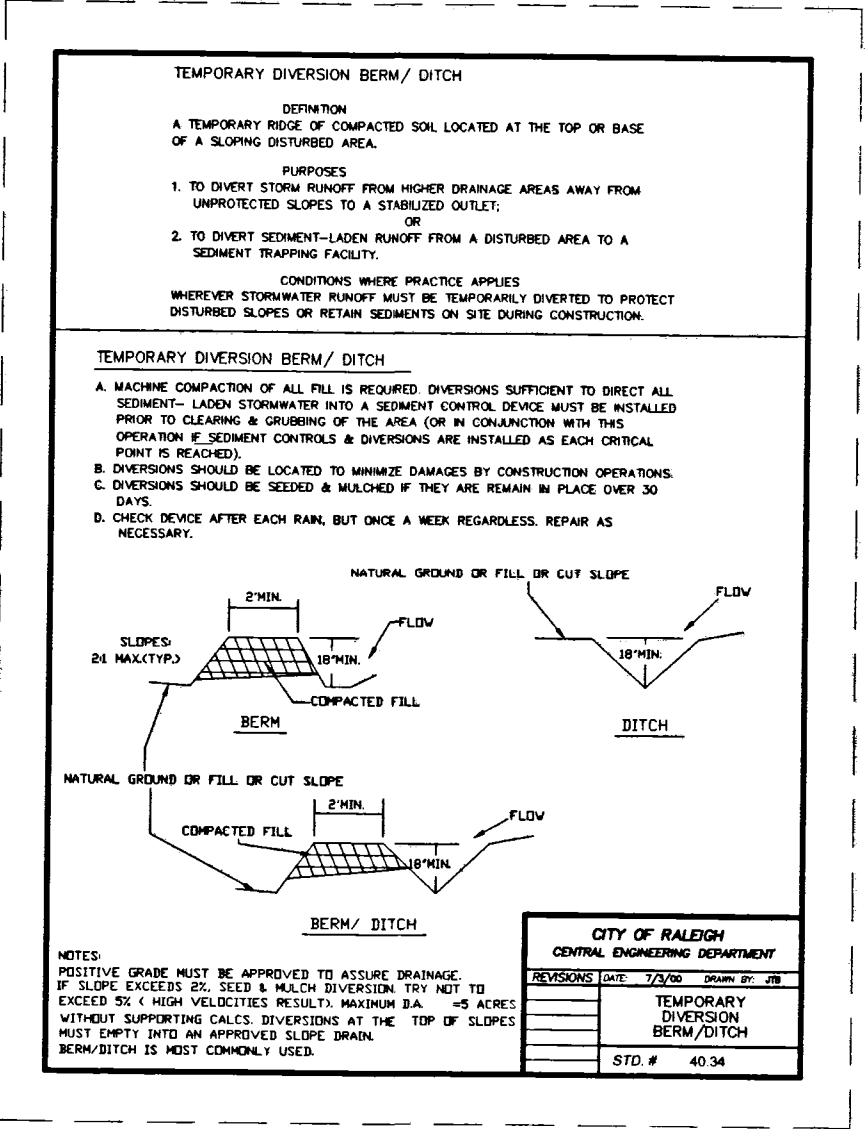
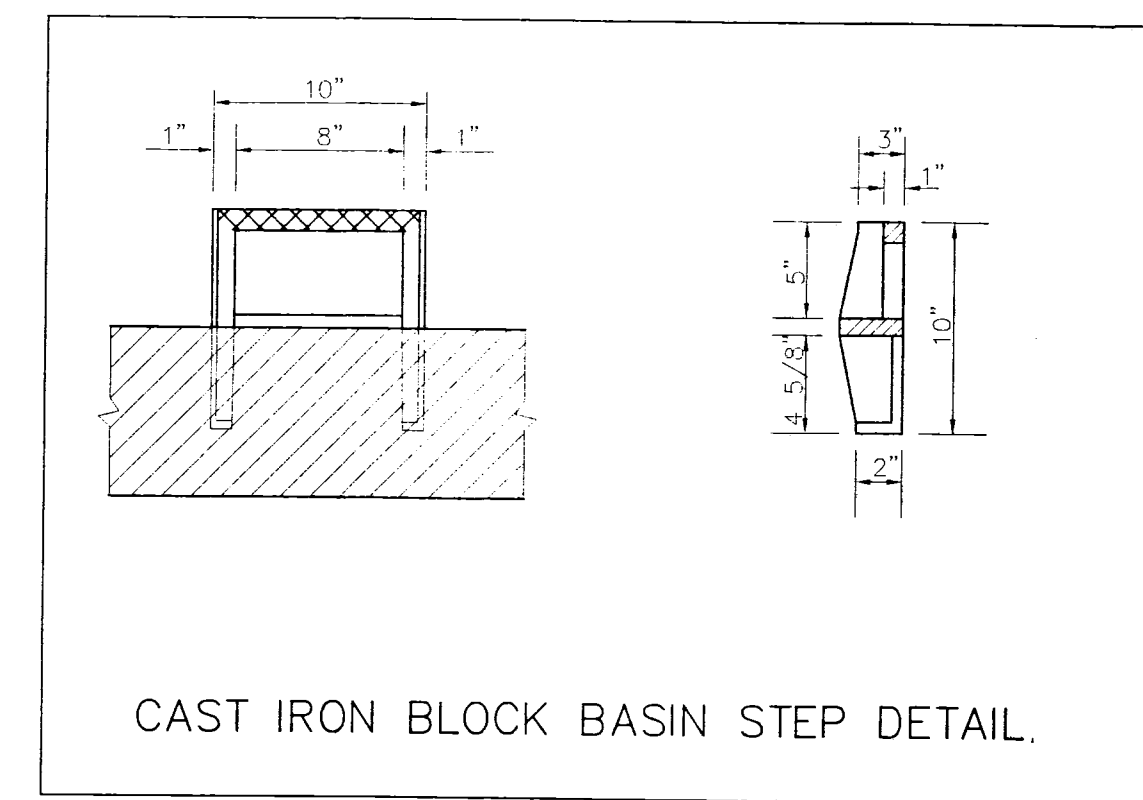
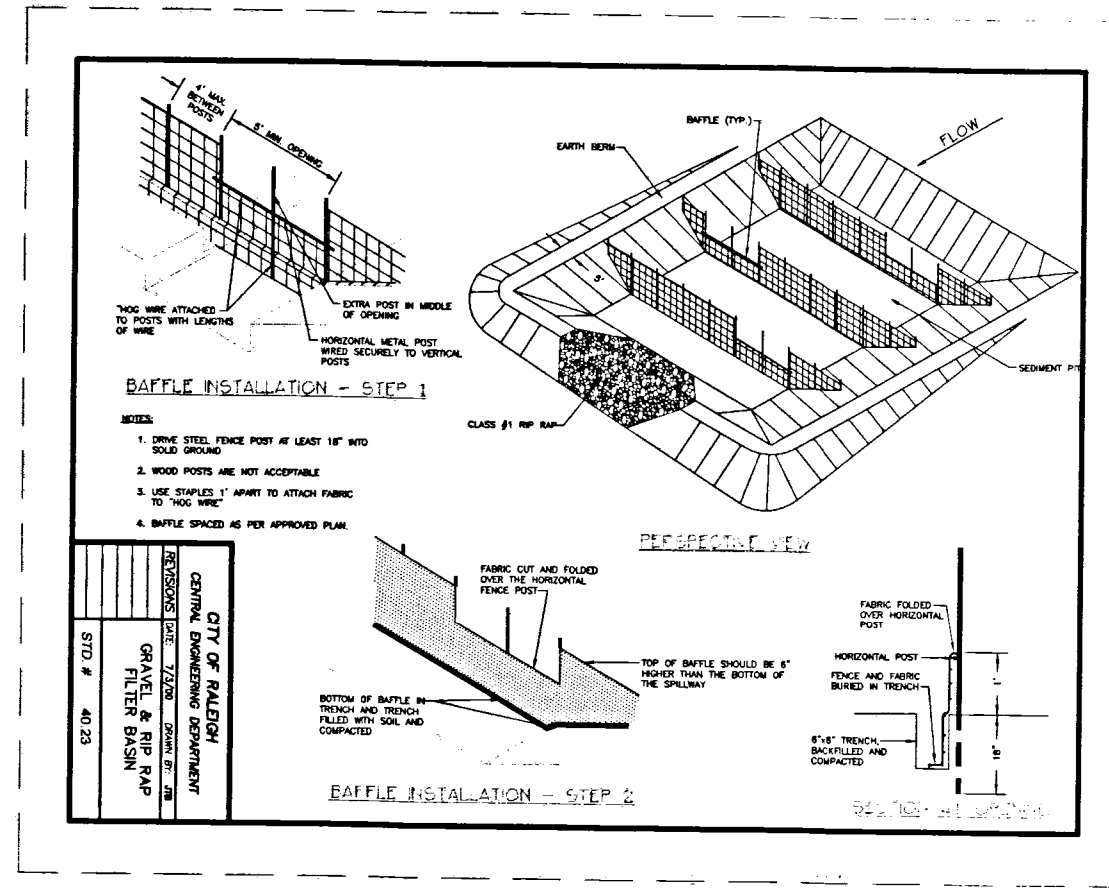
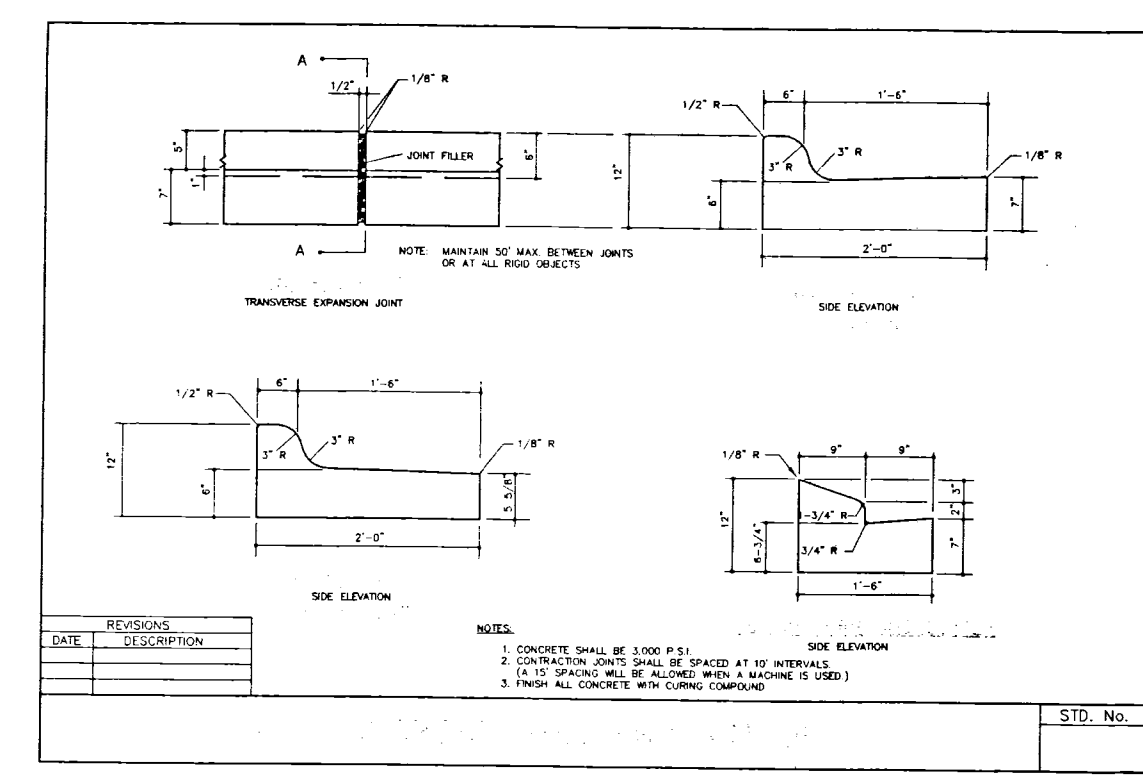
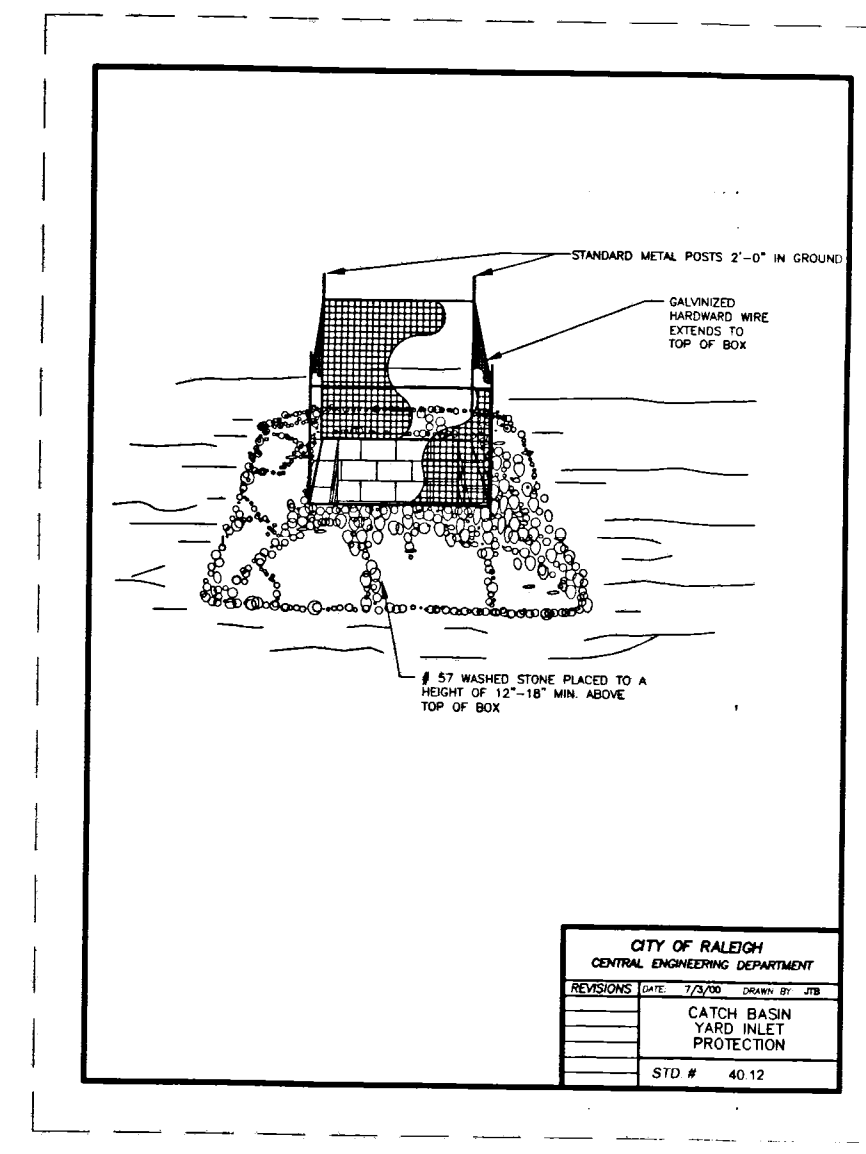
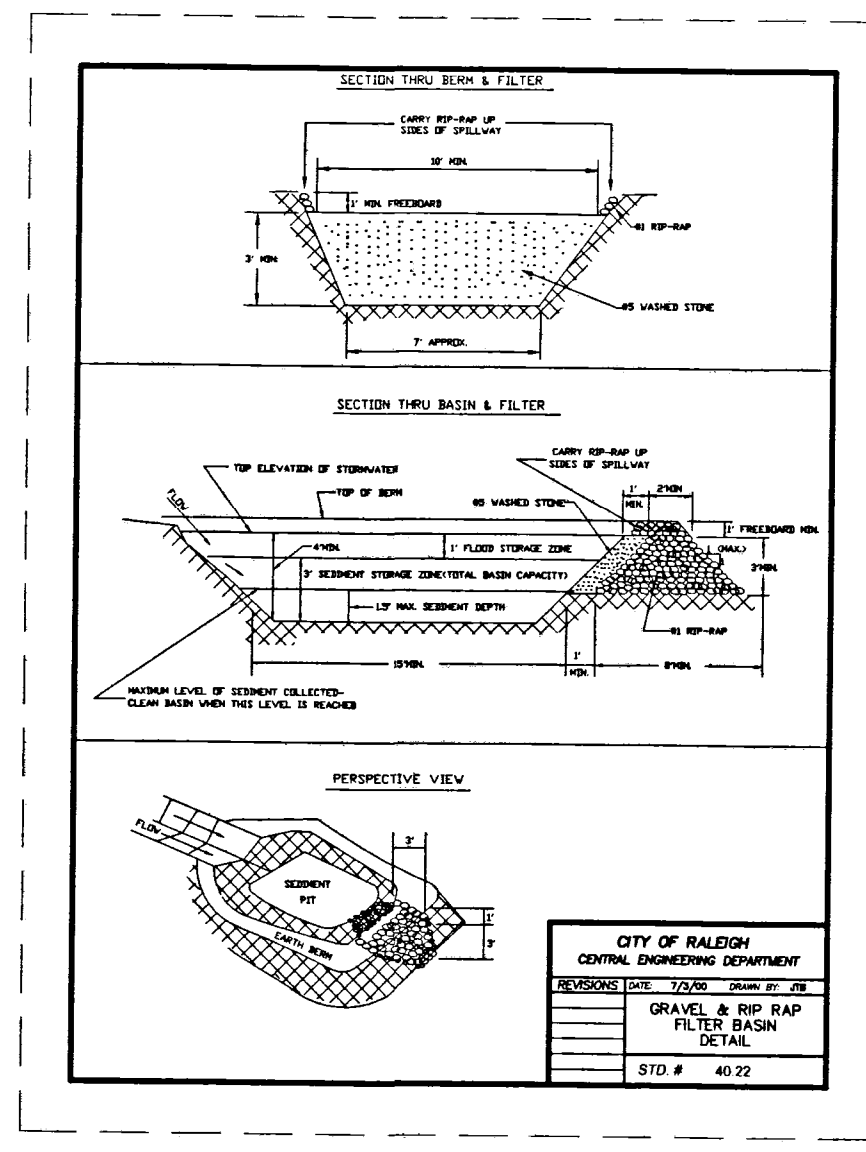
Leith Auto Park East
Site Improvements

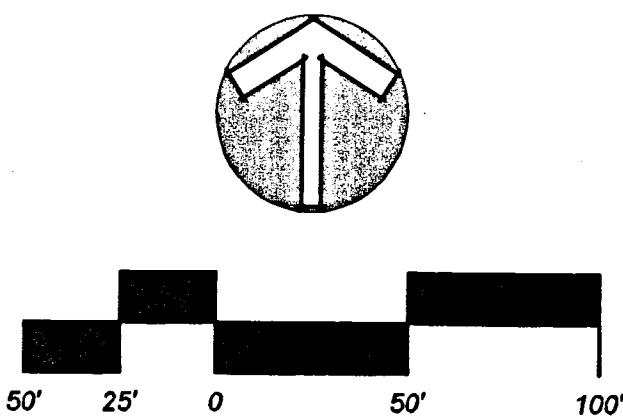
Details

Date
April 3, 2007

Scale
As Shown

Sheet





PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	QUAN	CALIPER	HEIGHT	SPREAD	ROOT	REMARKS
Trees								
ArO	Acer rubrum 'October Glory'	October Glory Red Maple	21	2.5"			B&B	
Cc	Cercis Canadensis	Eastern Redbud	15		7-8'		B&B	
QpH	Quercus phellos	Willow Oak	4	3"			B&B	
Up	Ulmus parvifolia 'Athena'	Athena Chinese Elm	7	3"			B&B	
Foundation Shrubs (such as)								
lcC	Ilex comuta 'Carissa'	Carissa Holly	71		3 gal		cont	

Turf type tall Fescue in all areas unless otherwise noted



JERRY TURNER & ASSOCIATES, INC.

Landscape Architecture
Land Planning
Environmental Design

905 Jones Franklin Road
Raleigh, North Carolina 27606
(919) 851-7150 fax: (919) 851-7547

277 S.E. 5th Avenue
Delray Beach, Florida 33483
(561) 276-0453 fax: (561) 272-7593

PROJECT

LEITH
Auto Dealership
Wendell, North Carolina

REVISIONS

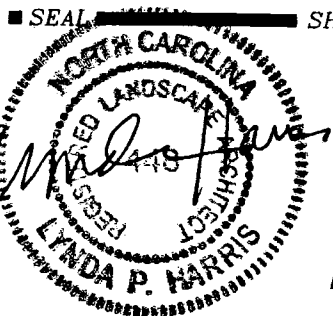
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RT _____ LH _____
SCALE _____ DATE _____
4/12/07

TITLE

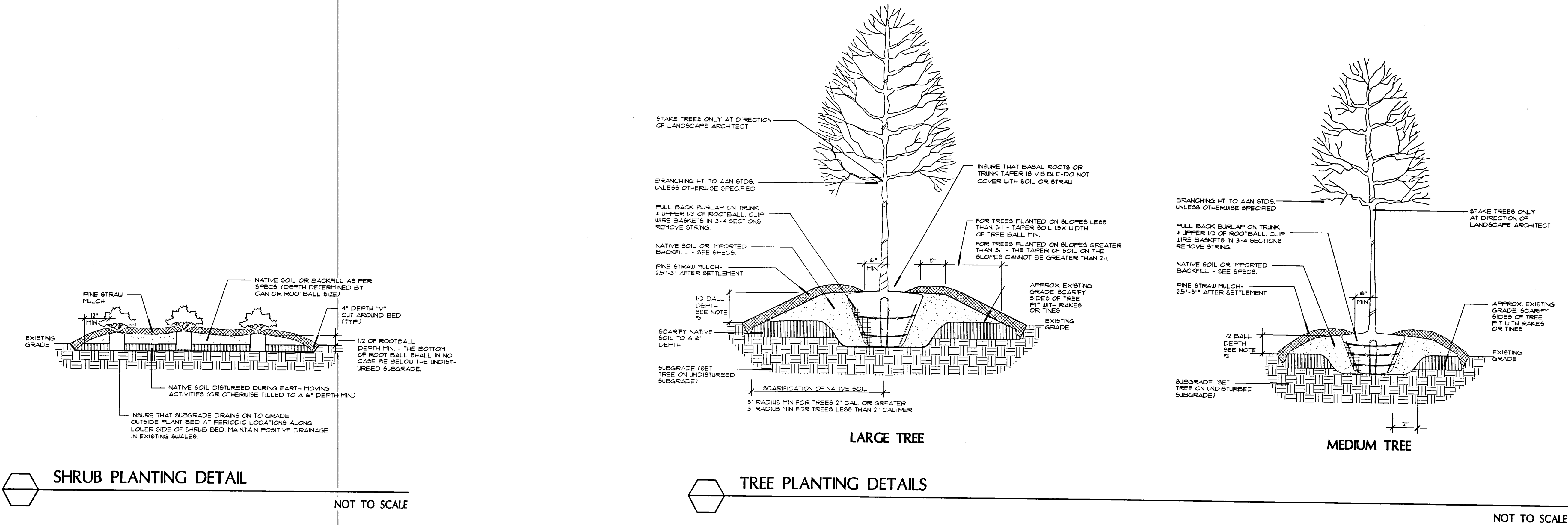
PLANT
LIST &
DETAILS

FILE NO. _____ JOB NO. _____

SEAL _____ SHEET NO. _____



L-2



NOT TO SCALE