

**EXISTING SURVEY LEGEND:**

JB	JUNCTION BOX	AT	AERIAL TARGET
LL	LANDSCAPE LIGHT	AI	ANGLE IRON
LP	LIGHT POLE	AX	AXLE
MB	MAILBOX / PAPER BOX	BM	BENCH MARK
MW-1	MONITOR WELL	CP	COMPUTED POINT
PP	PAY PHONE	ECM	CONCRETE MONUMENT
PP	POWER POLE	CON	CONTROL POINT
SM	SANITARY MANHOLE	DH	DRILL HOLE
SH	SHRUB	GS	GEODEIC MONUMENT
SC	SIAMSE CONNECTION	HT	HUB AND TACK
SO	SIGN	IPF	IRON PIPE FOUND
SB-1	SIGNAL BOX	IPS	IRON PIPE SET
100.0+	SOIL BORE	IRF	IRON ROD
SR	SPOT ELEVATION	NL	NAIL
SR	SPRINKLER HEAD	PK	PK NAIL
>	STORM PIPE	PM	PUNCH MARK
T	TELEPHONE MANHOLE	RBF	REBAR
TF	TELEPHONE PEDESTAL	RSF	RAILROAD SPIKE
TR	TRANSFORMER	SK	STAKE
TT	TRANSMISSION TOWER	CV	BOX CULTURE
T	TREE	CB	CABLE TV BOX
UB	UNDERGROUND BOX	CB	CATCH BASIN
UT	UNDERGROUND TELEPHONE MARKER	CO	CLEANOUT
U	UNKNOWN MANHOLE	CI	CURB INLET
V	VENT PIPE	DM	DRAINAGE MANHOLE
W	WATER MANHOLE	DB	DUCT BANK
WM	WATER METER	EM	ELECTRIC MANHOLE
WS	WATER SPOUT	EM	ELECTRIC METER
WV	WATER VAULT	FO	FIBER OPTIC MARKER
WF	WATER WALL	100.0+	FINISHED FLOOR ELEVATION
W	WELL	FR	FIRE HYDRANT
WF-1	WETLAND FLAG	FP	FUEL PUMP
YH	YARD HYDRANT	G	GAS METER
YI	YARD INLET	GV	GAS VALVE
	BACK OF CURB	GP	GATE POST
	CHAIN LINK FENCE	GR	GROUNDING ROD
	CREAK	GW	GUY WIRE
EC	EDGE OF CONCRETE	IV	INDICATOR VALVE
ED	EDGE OF DIRT	ICV	IRRIGATION CONTROL VALVE
EG	EDGE OF GRAVEL		
EP	EDGE OF PAVEMENT		
FO	FIBER OPTIC LINE		
GL	GAS LINE		
GR	GUARD RAIL		
	OVERHEAD ELECTRIC		
	OVERHEAD TELEPHONE		
	PROPERTY / LEASE LINE		
	PROPERTY LINE (NOT SURVEYED)		
R/W	RIGHT-OF-WAY		
	ROAD CENTERLINE		
SS	SEWER LINE		
	SHRUB LINE		
	TREE LINE		
UE	UNDERGROUND ELECTRIC		
UT	UNDERGROUND TELEPHONE		
UG	UNKNOWN UNDERGROUND UTILITY		
WL	WATER LINE		
	WIRE FENCE		
	WOOD FENCE		

**PROPOSED UTILITIES**

WV	WATER VALVE
BA	BLOWOFF ASSEMBLY WITH VALVE
AR	AIR RELEASE VALVE/MANHOLE
HA	FIRE HYDRANT ASSEMBLY
WM	WATER METER
SL	SANITARY SEWER LATERAL
R	REDUCER
T	TEE
C	CROSS
BF	BLIND FLANGE OR TEMPORARY CAPPING
RJ	RESTRAINED JOINT

**PROPOSED STORMWATER**

SI	STORMWATER CURB INLET
SB	STORMWATER JUNCTION BOX
SS	STORMWATER STRUCTURE NUMBER
FE	FES-FLARED END SECTION
RR	RIP RAP DISSIPATOR
RR	RIP RAP DISSIPATOR WITH LEVEL SPREADER

**PROPOSED EROSION CONTROL**

PS	PERMANENT DRAINAGE DITCH
TS	TEMPORARY SILT BASIN
TR	TEMPORARY ROCK PIPE INLET SEDIMENT TRAP
TI	TEMPORARY INLET PROTECTION
TD	TEMPORARY CHECK DAM
TF	TEMPORARY SILT FENCE
TS	TEMPORARY SILT DITCH
TD	TEMPORARY DIVERSION
TF	TEMPORARY TREE PROTECTION
TFL	TREE FENCE LINE (YELLOW TAPE)
CL	CLEARING LIMITS
WR	WHEELCHAIR RAMP

**GENERAL NOTES**

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF CARY AND NCDOT STANDARD SPECIFICATIONS AND DETAILS.
- CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION.
- CONTRACTOR SHALL NOTIFY ENGINEER OF DISCREPANCIES BETWEEN FIELD CONDITIONS AND THOSE SHOWN ON PLANS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL IN ACCORDANCE WITH THE LATEST EDITION OF MUTCD AND NCDOT STDS.
- THE CONTRACTOR, TO THE MAXIMUM EXTENT POSSIBLE, SHALL NOT REMOVE LARGE SPECIMEN TREES AT THE EDGES OF THE EASEMENTS, AND MINIMIZE DAMAGES TO TREES AT THE EDGES OF THE CONSTRUCTION CORRIDOR.
- CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL/DEMOLITION OF ALL EXISTING BUILDINGS, FOUNDATIONS, FENCE, DRAINAGE PIPING WITHIN THE REQUIRED CLEARING LIMITS, UNLESS OTHERWISE NOTED BY OWNER OR ENGINEER. DISPOSE ALL CONSTRUCTION DEMOLITION DEBRIS IN APPROVED LANDFILL.
- NO TREE SHALL BE PLANTED WITHIN PUBLIC RIGHT-OF-WAY OR WITHIN FIVE (5) FEET OF A PUBLIC SIDEWALK OR STREET CURB.
- LANDSCAPE MAINTENANCE WITHIN STREET FRONT-OF-WAY, INCLUDING MEDIAN AND ISLANDS, SHALL BE THE RESPONSIBILITY OF PROPERTY OWNERS, PROPERTY ASSOCIATIONS OR THEIR AGENTS IN PERPETUITY.
- COORDINATE UTILITY REMOVAL AND INSTALLATION WITH RESPECTIVE COMPANIES.

**UTILITY NOTES**

- DIP WATER MAIN PIPING UP TO 12-INCHES IN DIAMETER SHALL BE CLASS 350. DIP SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA C100 AND AWWA C151. FITTINGS SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA C151. PIPE JOINTS CONFIRM TO AWWA C111.
- THE TOPS OF ALL AIR RELEASE MANHOLES FOR THE WATER LINE SHALL BE INSTALLED TO 1 FT ABOVE FINISHED GRADE AT LOCATIONS OUTSIDE THE SIDEWALK AREA. TOPS OF AIR RELEASE MANHOLES LOCATED IN THE SIDEWALK AREA SHALL BE INSTALLED AT FINISHED GRADE.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UNDERGROUND UTILITIES AND REPORT CONFLICTS TO ENGINEER BEFORE CONSTRUCTION. CALL THE NC ONE CALL CENTER AT 1-800-832-4444.
- CONTRACTOR SHALL MAINTAIN AN "AS BUILT" SET OF DRAWINGS TO RECORD THE EXACT LOCATION OF ALL EXISTING PIPING PRIOR TO CONCEALMENT. DRAWINGS SHALL BE GIVEN TO THE ENGINEER UPON COMPLETION OF THE PROJECT WITH A COPY OF THE TRANSMITTAL LETTER TO THE OWNER.
- MINIMUM UTILITY SEPARATIONS:
  - 12" VERTICAL CLEARANCE FROM TOP OF GRAVITY SEWER TO BOTTOM OF EXISTING WATERLINES
  - 12" VERTICAL CLEARANCE FROM TOP OF GRAVITY SEWER TO BOTTOM OF EXISTING STORM DRAINAGE
  - MINIMUM 10' HORIZONTAL SEPARATION BETWEEN GRAVITY AND EXISTING UTILITIES
- ALL CONTRACTORS TO COORDINATE ALL CONSTRUCTION ACTIVITIES AND UTILITY RELOCATION/INSTALLATION WITH UTILITY OWNERS.
- ALL PRIVATE UTILITIES (TELEPHONE, CABLE, GAS, POWER) TO BE INSTALLED BETWEEN BACK OF CURB AND RIGHT OF WAY LINE.
- THE DEVELOPER WILL BE RESPONSIBLE FOR ALL INSTALLATION COSTS ASSOCIATED WITH STREET LIGHTING ALONG PROPOSED STREETS, ADJACENT STREETS AND THOROUGHFARES AS REQUIRED PER TOWN OF CARY POLICY STATEMENT NO. 13. THE DEVELOPER SHALL CONTACT PROGRESS ENGINEER AFTER PLAN APPROVAL AND PRIOR TO CONSTRUCTION IN ORDER TO OBTAIN A STREET LIGHTING PLAN FOR THE SITE/SUBDIVISION PLANS.
- ALL UTILITY CASTINGS TO HAVE THE TOWN OF CARY EMBLEM CASTED ON LID.
- DO NOT EXCEED MANUFACTURERS RECOMMENDED DEFLECTION FOR WATER LINES.
- DISTRIBUTION PIPES, VALVES, SERVICE LINES AND OTHER APPURTENANCES SHOULD EITHER BE COLORED PURPLE AND EMBOSSED OR BE INTEGRALLY MARKED / STAMPED "CAUTION RECLAIMED WATER - DO NOT DRINK"

**SEEDING PREPARATION**

- DISSE, COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF THEY OCCUR, AFTER ALL ROUGH GRADING IS COMPLETED. TILL SOIL AREAS TO BE SEEDING AND PLANTED TO A DEPTH OF 120 INCHES.
- REMOVE ALL LOOSE ROCKS, ROOTS, DIRT CLODS, AND OTHER OBSTRUCTIONS LEAVING GROUND SURFACE SMOOTH AND UNIFORM.
- TO PREPARE UNIFORM SEEDBED, INCORPORATE AGRICULTURAL LIME, FERTILIZER AND SUPERPHOSPHATE INTO SOIL AREAS TO BE VEGETATED. DISK NUTRIENTS INTO SOIL UNTIL WELL PULVERIZED.
- SEED ON PREPARED SEEDBED AND COVER LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK. APPLY TEMPORARY SEEDING TO SOIL STOCKPILE AREAS THAT WILL BE DISTURBED WITHIN 30 DAYS. APPLY PERMANENT SEEDING TO WHERE FINISH GRADES ARE ESTABLISHED.
- MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR WITH LIQUID ASPHALT AT 400 GAL/ACRE OR EMULSIFIED ASPHALT AT 300 GAL/ACRE.
- MULCH ALL SEEDED AREAS WITH SMALL GRAIN STRAW AT 90 LBS/1000SQF AND SPREAD UNIFORMLY. GROUND SURFACE SHOULD BE VISIBLE TO ALLOW SUNLIGHT PENETRATION.
- MULCH AROUND SHRUBBERY AND TREES WITH SHREDDED HARDWOOD TO A DEPTH OF 3 INCHES.
- AFTER WORK IS COMPLETED AND AREAS ARE STABILIZED, CALL EROSION CONTROL OFFICER FOR SITE INSPECTION AND RECEIVE CERTIFICATE OF COMPLETION. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES, INSTALL RIP-RAP, AND SEED AND MULCH ANY REMAINING BARE AREAS.

**SEEDING SCHEDULE**

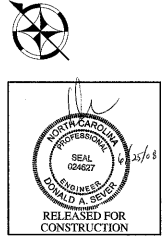
SHOULDERS, SIDE DITCHES, SLOPES (MAX. 3:1)	DATE: TYPE PLANTING RATE
AUG. 15 - NOV. 1	TALL FESCUE: 300 LBS/ACRE
NOV. 1 - MAR. 1	TALL FESCUE: 300 LBS/ACRE
MAR. 1 - APR. 15	TALL FESCUE: 300 LBS/ACRE
APR. 15 - AUG. 15	TALL FESCUE AND LBS/ACRE
MAR. 1 - JUN. 1	SEROSA LESPEDEZA (UN-SCARIFIED): 50 LBS/ACRE
JUN. 1 - APR. 15	TALL FESCUE: 120 LBS/ACRE
APR. 15 - SEP. 1	TALL FESCUE: 120 LBS/ACRE
SEP. 1 - MAR. 1	SEROSA LESPEDEZA (UN-SCARIFIED): 70 LBS/ACRE
MAR. 1 - APR. 15	TALL FESCUE: 120 LBS/ACRE
APR. 15 - SEP. 1	TALL FESCUE: 120 LBS/ACRE
SEP. 1 - MAR. 1	SEROSA LESPEDEZA (UN-SCARIFIED): 70 LBS/ACRE
MAR. 1 - APR. 15	TALL FESCUE: 120 LBS/ACRE
APR. 15 - SEP. 1	TALL FESCUE: 120 LBS/ACRE
SEP. 1 - MAR. 1	SEROSA LESPEDEZA (UN-SCARIFIED): 70 LBS/ACRE

**NOTE:** Any previously installed landscaping will need to be replaced.

**Greenway Construction Notes:**

- Trail shall be constructed per plans and according to all other pertinent details and specifications.
- Contractor to confine construction activity within limits of construction.
- Clearing limits shall be approved by Landscape Architect/Engineer prior to construction.
- Contractor shall retain a registered surveyor to stake centerline of the trail as shown on the Layout Plan. The trail is to be staked at 50' intervals in the 1 field.
- Staked centerline of the trail is to be approved by Landscape Architect prior to construction. Landscape Architect may make minor adjustments to the trail alignment to protect existing trees or to adjust to site conditions.
- Erect tree protection fence along limit of construction for inspection by Town of Cary.
- Install required erosion control measure prior to construction.
- Contractor to call for utility locations prior to construction.
- All trails, regardless of width shall maintain a 2' wide graded shoulder with a 2% cross slope.
- Proposed pavement shall meet existing pavement finish.
- Trail to exhibit 2% cross slope towards creek or low area.
- Slope shall be 3:1 maximum and 2% minimum slope except where otherwise noted.
- All disturbed areas shall be seeded per specification.
- Grade side slopes and adjacent ground to drain. Ensure that there is no standing water on the uphill side of the trail. Install diversion ditch as needed to direct water to culverts.
- Additional culverts will be added as needed during construction to prevent erosion and slick spots on greenway trail.
- Trees shall be lumb up a vertical distance of 10 feet from the forest floor, within 5 feet from the outside edge of the trail. Remove dangerous tree limbs hanging over trail as directed by landscape architect.
- The Town of Cary Site Inspector or Geotechnical Engineer shall proof roll greenway trail prior to placement of fabric and 6" of crushed stone. The trail will shall also be proof rolled prior to paving. A minimum of 97% compaction is required.
- All trails that intersect with a curbed road shall have either a Town of Cary, driveway apron or HC Ramp as specified by PRCR Department.
- The edges of paved trails shall be a minimum of 4' from the edge of any manhole.
- All greenway trails shall have paved connection to roads.

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REVISIONS


PROJECT # 04-007 DATE: 06/20/08  
 DRAWN BY: MB CHECKED BY: BS  
 TITLE: GENERAL NOTES  
 SHEET: C0.1

06-SP-047-A  
 APPROVED  
 TOWN OF CARY

Approved by: DIC Date: 7-28-08  
 Planning: SS Date: 12-14-08  
 Engineering: SS Date: 12/18/08

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