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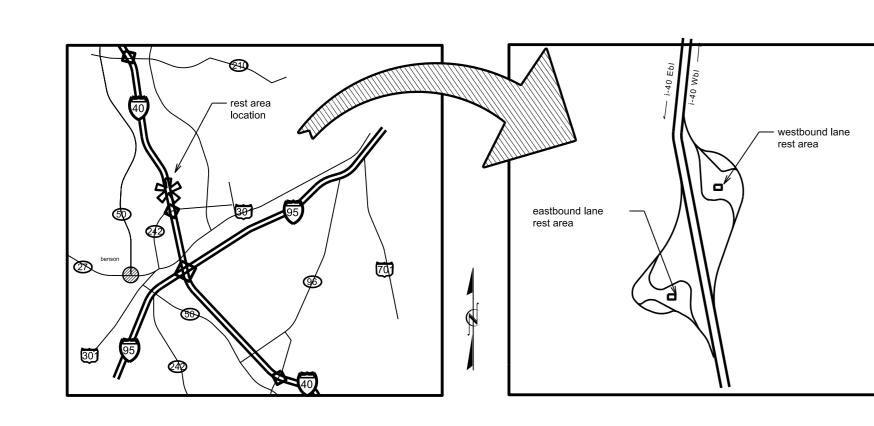
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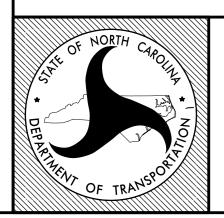
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PROPOSED HIGHWAY LANDSCAPE DEVELOPMENT PROJECT



VICINITY MAPs



summary of project quantities

QTY.	UNIT	KEY	BOTANICAL NAME	COMM ON NAME	FURNISH	REMARKS
			Trees			
2	EA	APB	Acer palmatum 'Bloodgood'	Bloodgood Japanese Maple	7-8', B&B	ASSHOWN
2	EA	APT	Acer palmatum dissectum 'Tamukeyama'	Tamukeyama Cutleaf Japanese Maple	3-4', B&B (or #15 Cont)	ASSHOWN
6	EA	CI	Carya illinoinensis 'Sumner'	Sum ner Pecan	8-10', B&B	ASSHOWN
3	EA	CF	Cornus florida 'Rubra'	Pink Flowering Dogwood	7-8', B&B	ASSHOWN
12	EA	LI	Lagerstroemia indica 'Miami'	Miami Crape Myrtle	8-10', B&B	ASSHOWN
18	EA	PT	Pinus taeda	Loblolly Pine	8-10', B&B	ASSHOWN
4	EA	PB	Pinus thunbergii	Japanese Black Pine	6-8', B&B	ASSHOWN
10	EA	PY	Prunus x yedoensis 'Yoshino'	Yoshino Cherry	8-10', B&B	ASSHOWN
29	EA	QN	Quercus nuttallii	Nutall Oak	10-12', B&B	ASSHOWN
1	EA	ZS	Zelkova serrata 'Green Vase'	Green Vase Zelkova	10 -1 2', B&B	ASSHOWN
47	E A		Shrubs Azalea x Kurum e 'Pink Pear'	Direle Decerl Areala	#3 Cont	ASSHOWN
47 38	EA EA		Azalea x Kurume Pink Pear Azalea x Kurume 'Snow'	Pink Pearl Azalea Snow Azalea	#3 Cont #3 Cont	ASSHOWN
6	EA		Azarea x Kurume Snow Euonvmous alata' Compacta'		#3 Cont #3 Cont	3' 0.C.
				Dwarf Burning Bush	#5 Cont	I
3	EA		Hibiscus syriacus'Aphrodite'	Aphrodite Rose of Sharon		ASSHOWN
4	EA	HB	Hydrangea serrata 'Bluebird'	Bluebird Hydrangea	#3 Cont	AS SHOWN
149	EA		Ilex cornuta 'Carissa'	Carissa Holly	#3 Cont	3' + 0.C.
4	EA	IV	Itea virginica 'Henry's Garnet'	Henry's Garnet Sweetspire	#3 Cont	4' 0.C.
81	EA	N. a	Juniperus procumbens 'Nana'	Japanese Garden Juniper	#1 Cont	3' 0.0.
11	EA	3L	Juniperus scopulorum 'Skyrocket'	Skyrocket Juniper	#5 Cont	ASSHOWN
10	EA	LC	Loropetalum chinensis rubrum 'Blush'	Blush Loropetalum	#3 Cont	ASSHOWN
39	EA	ND	Nandina domestica	Nandina	#3 Cont	ASSHOWN
111	EA	PL	Prunus laurocerasus 'Otto Luyken'	Otto Luyken Laurel	#3 Cont	4' O.C.
39	EA	RR	Rosa x 'Radcon'	Pink Double Knockout Rose	#3 Cont	4' O.C.
59	EA	SB	Spiraea x bumalda 'Anthony Waterer'	Anthony Waterer Spirea	#3 Cont	ASSHOWN
			Groundcovers			
						I I
346	EA	LM	Liriope muscari 'Big Blue'	Big Blue Liriope	#1 Cont	12″ O.C.
657	EA	OJ	Ophiopogon japonicus 'Nana'	Dwarf Mondo Grass	#SP4, QT	9″ O. C.
			Grasses			
			Grasses			
33	EA	JE	Grasses Juncus effusus	Soft Rush	#1 Cont	ASSHOWN
33 34	EA EA			Soft Rush Prairie Sky Switch Grass	#1 Cont #1 Cont	AS SHOWN 3' O.C.
			Juncus effusus			
34	EA	PP\$	Juncus effusus Panicum virgatum 'Prairie Sky'	Prairie Sky Switch Grass	#1 Cont	3' O.C.
34	EA	PP\$	Juncus effusus Panicum virgatum 'Prairie Sky'	Prairie Sky Switch Grass	#1 Cont	3' O.C.
34	EA	PP\$	Juncus effusus Panicum virgatum 'Prairie Sky'	Prairie Sky Switch Grass	#1 Cont	3' O.C.
34 30	EA EA	PP\$ PH	Juncus effusus Panicum virgatum 'Prairie Sky' Pennisetum alepecuroides 'Hamelin' Perennials	Prairie Sky Switch Grass Hamelin Dwarf Fountain Grass	#1 Cont #1 Cont	3' O.C.
34 30 21	EA EA EA	PPS PH APC	Juncus effusus Panicum virgatum 'Prairie Sky' Pennisetum alep ecuroides 'Hamelin' Perennials Artemisia arborescens 'Powis Castle'	Prairie Sky Switch Grass Ham elin Dwarf Fountain Grass Powis Castle Artemisia	#1 Cont #1 Cont #SP4, QT	3' O.C. 24‴ O.C.
34 30 21 92	EA EA EA EA	PPS PH APC DC	Juncus effusus Panicum virgatum 'Prairie Sky' Pennisetum alep ecuroides 'Hamelin' Perennials Artemisia arborescens 'Powis Castle' Delosperma cooperi	Prairie Sky Switch Grass Hamelin Dwarf Fountain Grass Powis Castle Artemisia Hardy Ice Plant	#1 Cont #1 Cont #SP4, QT #SP4, QT	3' O.C. 24‴ O.C. 12″ O.C.
34 30 21 92 71	EA EA EA EA EA	PPS PH APC DC EKK	Juncus effusus Panicum virgatum 'Prairie Sky' Pennisetum alepecuroides 'Hamelin' Perennials Artemisia arborescens 'Powis Castle' Delosperma cooperi Echinacea purpurea 'Kim's Knee High'	Prairie Sky Switch Grass Hamelin Dwarf Fountain Grass Powis Castle Artemisia Hardy Ice Plant Kim's Knee High Coneflower	#1 Cont #1 Cont #SP4, QT #SP4, QT #SP4, QT	3' O.C. 24‴ O.C. 12″ O.C. 12″ O.C.
34 30 21 92 71 108	EA EA EA EA EA EA EA	PPS PH APC DC EKK HHR	Juncus effusus Panicum virgatum 'Prairie Sky' Pennisetum alepecuroides 'Hamelin' Perennials Artemisia arborescens 'Powis Castle' Delosperma cooperi Echinacea purpurea 'Kim's Knee High' Hemero callis 'Happy Returns'	Prairie Sky Switch Grass Ham elin Dwarf Fountain Grass Powis Castle Artem isia Hardy Ice Plant Kim's Knee High Coneflower Happy Returns Daylily	#1 Cont #1 Cont #SP4, QT #SP4, QT #SP4, QT #SP4, QT #1 Cont	3' O.C. 24″ O.C. 12″ O.C. 12″ O.C. 24″ O.C. 24″ O.C.
34 30 21 92 71 108 15	EA EA EA EA EA EA EA EA EA	PPS PH APC DC EKK HHR HAM	Juncus effusus Panicum virgatum 'Prairie Sky' Pennisetum alepecuroides 'Hamelin' Perennials Artemisia arborescens 'Powis Castle' Delosperma cooperi Echinacea purpurea 'Kim's Knee High' Hemerocallis 'Happy Returns' Hosta 'Albo Marginata'	Prairie Sky Switch Grass Ham elin Dwarf Fountain Grass Powis Castle Artemisia Hardy Ice Plant Kim's Knee High Coneflower Happy Returns Daylily Albo-Marginata Hosta	#1 Cont #1 Cont #SP4, QT #SP4, QT #SP4, QT #SP4, QT #1 Cont #1 Cont	3' O.C. 24″ O.C. 12″ O.C. 12″ O.C. 24″ O.C. 24″ O.C. AS SHOWN
34 30 21 92 71 108 15 119	EA EA EA EA EA EA EA EA EA EA	PPS PH APC DC EKK HHR HAM PFH	Juncus effusus Panicum virgatum 'Prairie Sky' Pennisetum alepecuroides 'Hamelin' Perennials Artemisia arborescens 'Powis Castle' Delosperma cooperi Echinacea purpurea 'Kim's Knee High' Hemerocallis 'Happy Returns' Hosta 'Albo Marginata' Phlox subulata 'Fort Hill'	Prairie Sky Switch Grass Hamelin Dwarf Fountain Grass Powis Castle Artemisia Hardy Ice Plant Kim's Knee High Coneflower Happy Returns Daylily Albo-Marginata Hosta Fort Hill Phlox	#1 Cont #1 Cont #SP4, QT #SP4, QT #SP4, QT #1 Cont #1 Cont #SP4, QT	3' 0.C. 24″ 0.C. 12″ 0.C. 12″ 0.C. 12″ 0.C. 24″ 0.C. AS SHOWN 12″ 0.C.
34 30 21 92 71 108 15 119 54	EA EA EA EA EA EA EA EA EA EA EA	PPS PH APC DC EKK HHR HAM PFH RG	Juncus effusus Panicum virgatum 'Prairie Sky' Pennisetum alepecuroides 'Hamelin' Perennials Artemisia arborescens 'Powis Castle' Delosperma cooperi Echinacea purpurea 'Kim's Knee High' Hemerocallis 'Happy Returns' Hosta 'Albo Marginata' Phlox subulata 'Fort Hill' Rudbeckia fulgida 'Goldstrum'	Prairie Sky Switch Grass Ham elin Dwarf Fountain Grass Powis Castle Artemisia Hardy Ice Plant Kim's Knee High Coneflower Happy Returns Daylily Albo-Marginata Hosta Fort Hill Phlox Goldstrum Black Eyed Susan	#1 Cont #1 Cont #SP4, QT #SP4, QT #SP4, QT #1 Cont #1 Cont #SP4, QT #SP4, QT	3' 0.C. 24″ 0.C. 12″ 0.C. 12″ 0.C. 24″ 0.C. AS SHOWN 12″ 0.C. 12″ 0.C.
34 30 21 92 71 108 15 119	EA EA EA EA EA EA EA EA EA EA	PPS PH APC DC EKK HHR HAM PFH	Juncus effusus Panicum virgatum 'Prairie Sky' Pennisetum alepecuroides 'Hamelin' Perennials Artemisia arborescens 'Powis Castle' Delosperma cooperi Echinacea purpurea 'Kim's Knee High' Hemerocallis 'Happy Returns' Hosta 'Albo Marginata' Phlox subulata 'Fort Hill'	Prairie Sky Switch Grass Hamelin Dwarf Fountain Grass Powis Castle Artemisia Hardy Ice Plant Kim's Knee High Coneflower Happy Returns Daylily Albo-Marginata Hosta Fort Hill Phlox	#1 Cont #1 Cont #SP4, QT #SP4, QT #SP4, QT #1 Cont #1 Cont #SP4, QT	3' 0.C. 24″ 0.C. 12″ 0.C. 12″ 0.C. 12″ 0.C. 24″ 0.C. AS SHOWN 12″ 0.C.
34 30 21 92 71 108 15 119 54	EA EA EA EA EA EA EA EA EA EA EA	PPS PH APC DC EKK HHR HAM PFH RG	Juncus effusus Panicum virgatum 'Prairie Sky' Pennisetum alepecuroides 'Hamelin' Perennials Artemisia arborescens 'Powis Castle' Delosperma cooperi Echinacea purpurea 'Kim's Knee High' Hemerocallis 'Happy Returns' Hosta 'Albo Marginata' Phlox subulata 'Fort Hill' Rudbeckia fulgida 'Goldstrum'	Prairie Sky Switch Grass Ham elin Dwarf Fountain Grass Powis Castle Artemisia Hardy Ice Plant Kim's Knee High Coneflower Happy Returns Daylily Albo-Marginata Hosta Fort Hill Phlox Goldstrum Black Eyed Susan	#1 Cont #1 Cont #SP4, QT #SP4, QT #SP4, QT #1 Cont #1 Cont #SP4, QT #SP4, QT	3' 0.C. 24″ 0.C. 12″ 0.C. 12″ 0.C. 24″ 0.C. AS SHOWN 12″ 0.C. 12″ 0.C.
34 30 21 92 71 108 15 119 54	EA EA EA EA EA EA EA EA EA EA EA	PPS PH APC DC EKK HHR HAM PFH RG	Juncus effusus Panicum virgatum 'Prairie Sky' Pennisetum alepecuroides 'Hamelin' Perennials Artemisia arborescens 'Powis Castle' Delosperma cooperi Echinacea purpurea 'Kim's Knee High' Hemerocallis 'Happy Returns' Hosta 'Albo Marginata' Phlox subulata 'Fort Hill' Rudbeckia fulgida 'Goldstrum'	Prairie Sky Switch Grass Ham elin Dwarf Fountain Grass Powis Castle Artemisia Hardy Ice Plant Kim's Knee High Coneflower Happy Returns Daylily Albo-Marginata Hosta Fort Hill Phlox Goldstrum Black Eyed Susan	#1 Cont #1 Cont #SP4, QT #SP4, QT #SP4, QT #1 Cont #1 Cont #SP4, QT #SP4, QT	3' 0.C. 24″ 0.C. 12″ 0.C. 12″ 0.C. 24″ 0.C. AS SHOWN 12″ 0.C. 12″ 0.C.
34 30 21 92 71 108 15 119 54	EA EA EA EA EA EA EA EA EA EA EA	PPS PH APC DC EKK HHR HAM PFH RG	Juncus effusus Panicum virgatum 'Prairie Sky' Pennisetum alep ecuroides 'Hamelin' Perennials Artemisia arborescens 'Powis Castle' Delosperma cooperi Echinacea purpurea 'Kim's Knee High' Hemero callis 'Happy Returns' Hosta 'Albo Marginata' Phlox subulata 'Fort Hill' Rudbeckia fulgida 'Goldstrum' Verbena canadensis 'Homestead Purple'	Prairie Sky Switch Grass Ham elin Dwarf Fountain Grass Powis Castle Artemisia Hardy Ice Plant Kim's Knee High Coneflower Happy Returns Daylily Albo-Marginata Hosta Fort Hill Phlox Goldstrum Black Eyed Susan	#1 Cont #1 Cont #SP4, QT #SP4, QT #SP4, QT #1 Cont #1 Cont #SP4, QT #SP4, QT	3' 0.C. 24″ 0.C. 12″ 0.C. 12″ 0.C. 24″ 0.C. AS SHOWN 12″ 0.C. 12″ 0.C.
34 30 21 92 71 108 15 119 54 10	EA EA EA EA EA EA EA EA EA EA	PPS PH APC DC EKK HHR HAM PFH RG	Juncus effusus Panicum virgatum 'Prairie Sky' Pennisetum alepecuroides 'Hamelin' Perennials Artemisia arborescens 'Powis Castle' Delosperma cooperi Echinacea purpurea 'Kim's Knee High' Hemerocallis 'Happy Returns' Hosta 'Albo Marginata' Phlox subulata 'Fort Hill' Rudbeckia fulgida 'Goldstrum' Verbena canadensis 'Homestead Purple'	Prairie Sky Switch Grass Ham elin Dwarf Fountain Grass Powis Castle Artemisia Hardy Ice Plant Kim's Knee High Coneflower Happy Returns Daylily Albo-Marginata Hosta Fort Hill Phlox Goldstrum Black Eyed Susan	#1 Cont #1 Cont #SP4, QT #SP4, QT #SP4, QT #1 Cont #1 Cont #SP4, QT #SP4, QT	3' 0.C. 24″ 0.C. 12″ 0.C. 12″ 0.C. 24″ 0.C. AS SHOWN 12″ 0.C. 12″ 0.C.
34 30 21 92 71 108 15 119 54 10	EA EA EA EA EA EA EA EA EA CY	PPS PH APC DC EKK HHR HAM PFH RG	Juncus effusus Panicum virgatum 'Prairie Sky' Pennisetum alepecuroides 'Hamelin' Perennials Artemisia arborescens 'Powis Castle' Delosperma cooperi Echinacea purpurea 'Kim's Knee High' Hemerocallis 'Happy Returns' Hosta 'Albo-Marginata' Phlox subulata 'Fort Hill' Rudbeckia fulgida 'Goldstrum' Verbena canadensis 'Homestead Purple' Descriptions Mulch for Planting	Prairie Sky Switch Grass Ham elin Dwarf Fountain Grass Powis Castle Artemisia Hardy Ice Plant Kim's Knee High Coneflower Happy Returns Daylily Albo-Marginata Hosta Fort Hill Phlox Goldstrum Black Eyed Susan	#1 Cont #1 Cont #SP4, QT #SP4, QT #SP4, QT #1 Cont #1 Cont #SP4, QT #SP4, QT	3' 0.C. 24″ 0.C. 12″ 0.C. 12″ 0.C. 24″ 0.C. AS SHOWN 12″ 0.C. 12″ 0.C.
34 30 21 92 71 108 15 119 54 10 100 20	EA EA EA EA EA EA EA EA EA CY MG	PPS PH APC DC EKK HHR HAM PFH RG	Juncus effusus Panicum virgatum 'Prairie Sky' Pennisetum alepecuroides 'Hamelin' Perennials Artemisia arborescens 'Powis Castle' Delosperma cooperi Echinacea purpurea 'Kim's Knee High' Hemerocallis 'Happy Returns' Hosta 'Albo-Marginata' Phlox subulata 'Fort Hill' Rudbeckia fulgida 'Goldstrum' Verbena canadensis 'Homestead Purple' Descriptions Mulch for Planting Water for Planting	Prairie Sky Switch Grass Ham elin Dwarf Fountain Grass Powis Castle Artemisia Hardy Ice Plant Kim's Knee High Coneflower Happy Returns Daylily Albo-Marginata Hosta Fort Hill Phlox Goldstrum Black Eyed Susan	#1 Cont #1 Cont #SP4, QT #SP4, QT #SP4, QT #1 Cont #1 Cont #SP4, QT #SP4, QT	3' 0.C. 24″ 0.C. 12″ 0.C. 12″ 0.C. 24″ 0.C. AS SHOWN 12″ 0.C. 12″ 0.C.
34 30 21 92 71 108 15 119 54 10 100 20 360	EA EA EA EA EA EA EA EA EA CY MG CY	PPS PH APC DC EKK HHR HAM PFH RG	Juncus effusus Panicum virgatum 'Prairie Sky' Pennisetum alepecuroides 'Hamelin' Perennials Artem isia arborescens 'Powis Castle' Delosperm a cooperi Echinacea purpurea 'Kim's Knee High' Hemerocallis 'Happy Returns' Hosta 'Albo Marginata' Phlox subulata 'Fort Hill' Rudbeckia fulgida 'Goldstrum' Verbena canadensis 'Homestead Purple' Descriptions Mulch for Planting Mulch for Planting Mulch for Planting	Prairie Sky Switch Grass Ham elin Dwarf Fountain Grass Powis Castle Artemisia Hardy Ice Plant Kim's Knee High Coneflower Happy Returns Daylily Albo-Marginata Hosta Fort Hill Phlox Goldstrum Black Eyed Susan	#1 Cont #1 Cont #SP4, QT #SP4, QT #SP4, QT #1 Cont #1 Cont #SP4, QT #SP4, QT	3' 0.C. 24″ 0.C. 12″ 0.C. 12″ 0.C. 24″ 0.C. AS SHOWN 12″ 0.C. 12″ 0.C.
34 30 21 92 71 108 15 119 54 10 100 20 360 1975	EA EA EA EA EA EA EA EA EA CY MG CY SY	PPS PH APC DC EKK HHR HAM PFH RG	Juncus effusus Panicum virgatum 'Prairie Sky' Pennisetum alepecuroides 'Hamelin' Perennials Artem isia arborescens 'Powis Castle' Delosperm a cooperi Echinacea purpurea 'Kim's Knee High' Hemerocallis 'Happy Returns' Hosta 'Albo Marginata' Phlox subulata 'Fort Hill' Rudbeckia fulgida 'Goldstrum' Verbena canadensis 'Homestead Purple' Descriptions Mulch for Planting Mulch for Planting Mulch for Planting Zoysia Sod	Prairie Sky Switch Grass Ham elin Dwarf Fountain Grass Powis Castle Artemisia Hardy Ice Plant Kim's Knee High Coneflower Happy Returns Daylily Albo-Marginata Hosta Fort Hill Phlox Goldstrum Black Eyed Susan	#1 Cont #1 Cont #SP4, QT #SP4, QT #SP4, QT #1 Cont #1 Cont #SP4, QT #SP4, QT	3' 0.C. 24″ 0.C. 12″ 0.C. 12″ 0.C. 24″ 0.C. AS SHOWN 12″ 0.C. 12″ 0.C.
34 30 21 92 71 108 15 119 54 10 100 20 360 1975 200	EA EA EA EA EA EA EA EA EA CY MG CY SY SY	PPS PH APC DC EKK HHR HAM PFH RG	Juncus effusus Panicum virgatum 'Prairie Sky' Pennisetum alepecuroides 'Hamelin' Perennials Artem isia arborescens 'Powis Castle' Delosperm a cooperi Echinacea purpurea 'Kim's Knee High' Hemerocallis 'Happy Returns' Hosta 'Albo Marginata' Phlox subulata 'Fort Hill' Rudbeckia fulgida 'Goldstrum' Verbena canadensis 'Homestead Purple' Descriptions Mulch for Planting Water for Planting Mulch for Planting Zoysia Sod Zoysia Sod (repair areas)	Prairie Sky Switch Grass Ham elin Dwarf Fountain Grass Powis Castle Artemisia Hardy Ice Plant Kim's Knee High Coneflower Happy Returns Daylily Albo-Marginata Hosta Fort Hill Phlox Goldstrum Black Eyed Susan	#1 Cont #1 Cont #SP4, QT #SP4, QT #SP4, QT #1 Cont #1 Cont #SP4, QT #SP4, QT	3' 0.C. 24″ 0.C. 12″ 0.C. 12″ 0.C. 24″ 0.C. AS SHOWN 12″ 0.C. 12″ 0.C.
34 30 21 92 71 108 15 119 54 10 100 20 360 1975 200 43	EA EA EA EA EA EA EA EA EA EA CY MG CY SY SY CY	PPS PH APC DC EKK HHR HAM PFH RG	Juncus effusus Panicum virgatum 'Prairie Sky' Pennisetum alepecuroides 'Hamelin' Perennials Artem isia arborescens 'Powis Castle' Delosperma cooperi Echinacea purpurea 'Kim's Knee High' Hemerocallis 'Happy Returns' Hosta 'Albo Marginata' Phlox subulata 'Fort Hill' Rudbeckia fulgida 'Goldstrum' Verbena canadensis 'Homestead Purple' Descriptions Mulch for Planting Water for Planting Mulch for Planting Zoysia Sod Zoysia Sod (repair areas) Topsoil	Prairie Sky Switch Grass Ham elin Dwarf Fountain Grass Powis Castle Artemisia Hardy Ice Plant Kim's Knee High Coneflower Happy Returns Daylily Albo-Marginata Hosta Fort Hill Phlox Goldstrum Black Eyed Susan Hom estead Purple Verbena	#1 Cont #1 Cont #SP4, QT #SP4, QT #SP4, QT #1 Cont #1 Cont #SP4, QT #SP4, QT	3' 0.C. 24″ 0.C. 12″ 0.C. 12″ 0.C. 24″ 0.C. AS SHOWN 12″ 0.C. 12″ 0.C.
34 30 21 92 71 108 15 119 54 10 100 20 360 1975 200 43 1	EA EA EA EA EA EA EA EA EA EA CY CY MG CY SY SY CY ACR	PPS PH APC DC EKK HHR HAM PFH RG	Juncus effusus Panicum virgatum 'Prairie Sky' Pennisetum alepecuroides 'Hamelin' Perennials Artem isia arborescens 'Powis Castle' Delosperma cooperi Echinacea purpurea 'Kim's Knee High' Hemerocallis 'Happy Returns' Hosta 'Albo Marginata' Phlox subulata 'Fort Hill' Rudbeckia fulgida 'Goldstrum' Verbena canadensis 'Hom estead Purple' Descriptions Mulch for Planting Water for Planting Mulch for Planting Zoysia Sod Zoysia Sod (repair areas) Topsoil Compost Seeding	Prairie Sky Switch Grass Ham elin Dwarf Fountain Grass Powis Castle Artemisia Hardy Ice Plant Kim's Knee High Coneflower Happy Returns Daylily Albo-Marginata Hosta Fort Hill Phlox Goldstrum Black Eyed Susan Hom estead Purple Verbena	#1 Cont #1 Cont #SP4, QT #SP4, QT #SP4, QT #1 Cont #1 Cont #SP4, QT #SP4, QT	3' 0.C. 24″ 0.C. 12″ 0.C. 12″ 0.C. 24″ 0.C. AS SHOWN 12″ 0.C. 12″ 0.C.
34 30 21 92 71 108 15 119 54 10 100 20 360 1975 200 43 1 464	EA EA EA EA EA EA EA EA EA EA CY CY MG CY SY SY CY ACR LF	PPS PH APC DC EKK HHR HAM PFH RG	Juncus effusus Panicum virgatum 'Prairie Sky' Pennisetum alep ecuroides 'Ham elin' Perennials Artemisia arborescens 'Powis Castle' Delosperma cooperi Echinacea purpurea 'Kim's Knee High' Hemerocallis 'Happy Returns' Hosta 'Albo-Marginata' Phlox subulata 'Fort Hill' Rudbeckia fulgida 'Goldstrum' Verbena canadensis 'Hom estead Purple' Descriptions Mulch for Planting Water for Planting Mulch for Planting Zoysia Sod Zoysia Sod (repair areas) Top soil Compost Seeding 3 Rail Fence	Prairie Sky Switch Grass Ham elin Dwarf Fountain Grass Powis Castle Artemisia Hardy Ice Plant Kim's Knee High Coneflower Happy Returns Daylily Albo-Marginata Hosta Fort Hill Phlox Goldstrum Black Eyed Susan Hom estead Purple Verbena	#1 Cont #1 Cont #SP4, QT #SP4, QT #SP4, QT #1 Cont #1 Cont #SP4, QT #SP4, QT	3' 0.C. 24″ 0.C. 12″ 0.C. 12″ 0.C. 24″ 0.C. AS SHOWN 12″ 0.C. 12″ 0.C.
34 30 21 92 71 108 15 119 54 10 100 20 360 1975 200 43 1 1 464 60	EA EA EA EA EA EA EA EA EA EA CY CY MG CY SY SY CY ACR LF SF	PPS PH APC DC EKK HHR HAM PFH RG	Juncus effusus Panicum virgatum 'Prairie Sky' Pennisetum alepecuroides 'Hamelin' Perennials Artemisia arborescens 'Powis Castle' Delosperma cooperi Echinacea purpurea 'Kim's Knee High' Hemerocallis 'Happy Returns' Hosta 'Albo Marginata' Phlox subulata 'Fort Hill' Rudbeckia fulgida 'Goldstrum' Verbena canadensis 'Homestead Purple' Descriptions Mulch for Planting Water for Planting Mulch for Planting Zoysia Sod Zoysia Sod (repair areas) Topsoil Compost Seeding 3 Rail Fence Concrete Pavers	Prairie Sky Switch Grass Ham elin Dwarf Fountain Grass Powis Castle Artemisia Hardy Ice Plant Kim's Knee High Coneflower Happy Returns Daylily Albo-Marginata Hosta Fort Hill Phlox Goldstrum Black Eyed Susan Hom estead Purple Verbena	#1 Cont #1 Cont #SP4, QT #SP4, QT #SP4, QT #1 Cont #1 Cont #SP4, QT #SP4, QT	3' 0.C. 24″ 0.C. 12″ 0.C. 12″ 0.C. 24″ 0.C. AS SHOWN 12″ 0.C. 12″ 0.C.
34 30 21 92 71 108 15 119 54 10 10 20 360 1975 200 43 1 464 60 10	EA EA EA EA EA EA EA EA EA CY CY MG CY SY CY ACR LF SF EA	PPS PH APC DC EKK HHR HAM PFH RG	Juncus effusus Panicum virgatum 'Prairie Sky' Pennisetum alepecuroides 'Hamelin' Perennials Artemisia arborescens 'Powis Castle' Delosperm a cooperi Echinacea purpurea 'Kim's Knee High' Hemerocallis 'Happy Returns' Hosta 'Albo Marginata' Phlox subulata 'Fort Hill' Rudbeckia fulgida 'Goldstrum' Verbena canadensis 'Homestead Purple' Descriptions Mulch for Planting Water for Planting Mulch for Planting Mulch for Planting Zoysia Sod Zoysia Sod (repair areas) Top soil Compost Seeding 3 Rail Fence Concrete Pavers Stepping Stone	Prairie Sky Switch Grass Ham elin Dwarf Fountain Grass Powis Castle Artemisia Hardy Ice Plant Kim's Knee High Coneflower Happy Returns Daylily Albo-Marginata Hosta Fort Hill Phlox Goldstrum Black Eyed Susan Hom estead Purple Verbena Love Grass	#1 Cont #1 Cont #SP4, QT #SP4, QT #SP4, QT #1 Cont #1 Cont #SP4, QT #SP4, QT	3' 0.C. 24″ 0.C. 12″ 0.C. 12″ 0.C. 24″ 0.C. AS SHOWN 12″ 0.C. 12″ 0.C.
34 30 21 92 71 108 15 119 54 10 10 20 360 1975 200 43 1 464 60 10 12	EA EA EA EA EA EA EA EA EA EA CY MG CY MG CY SY SY CY ACR LF SF EA LF	PPS PH APC DC EKK HHR HAM PFH RG	Juncus effusus Panicum virgatum 'Prairie Sky' Pennisetum alepecuroides 'Hamelin' Perennials Artemisia arborescens 'Powis Castle' Delosperm a cooperi Echinacea purpurea 'Kim's Knee High' Hemerocallis 'Happy Returns' Hosta 'Albo Marginata' Phlox subulata 'Fort Hill' Rudbeckia fulgida 'Goldstrum' Verbena canadensis 'Homestead Purple' Descriptions Mulch for Planting Water for Planting Mulch for Planting Mulch for Planting Mulch for Planting Coysia Sod Zoysia Sod (repair areas) Topsoil Compost Seeding 3 Rail Fence Concrete Pavers Stepping Stone Metal Edging	Prairie Sky Switch Grass Ham elin Dwarf Fountain Grass Powis Castle Artemisia Hardy Ice Plant Kim's Knee High Coneflower Happy Returns Daylily Albo-Marginata Hosta Fort Hill Phlox Goldstrum Black Eyed Susan Hom estead Purple Verbena Love Grass	#1 Cont #1 Cont #SP4, QT #SP4, QT #SP4, QT #1 Cont #1 Cont #SP4, QT #SP4, QT	3' 0.C. 24″ 0.C. 12″ 0.C. 12″ 0.C. 24″ 0.C. AS SHOWN 12″ 0.C. 12″ 0.C.
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NORTH CAROLINA

STATE OF

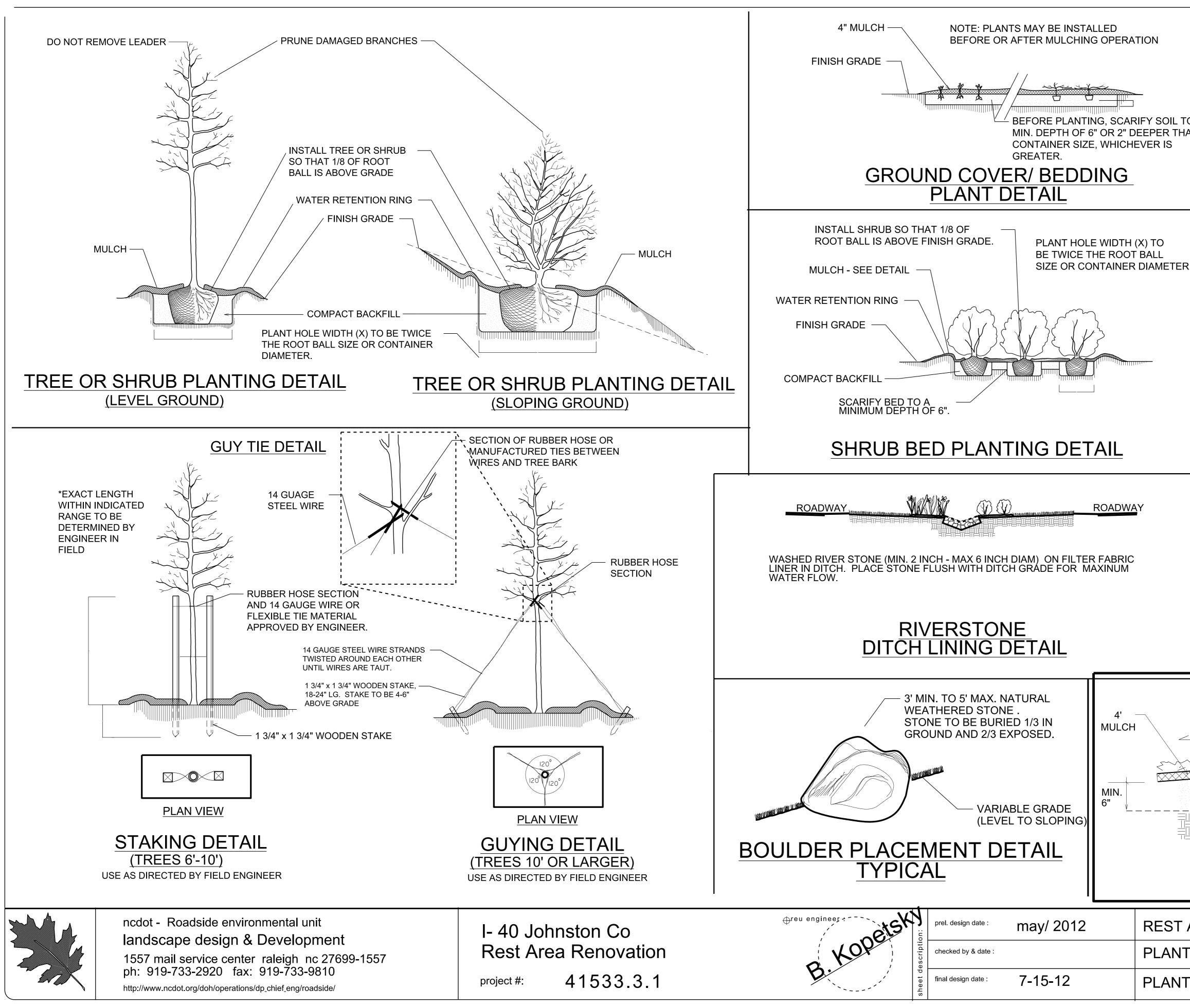
LOCATION: I-40 Rest Area Pair, west OF EXIT 325- benson, NC

TYPE of WORK: Landscape Planting

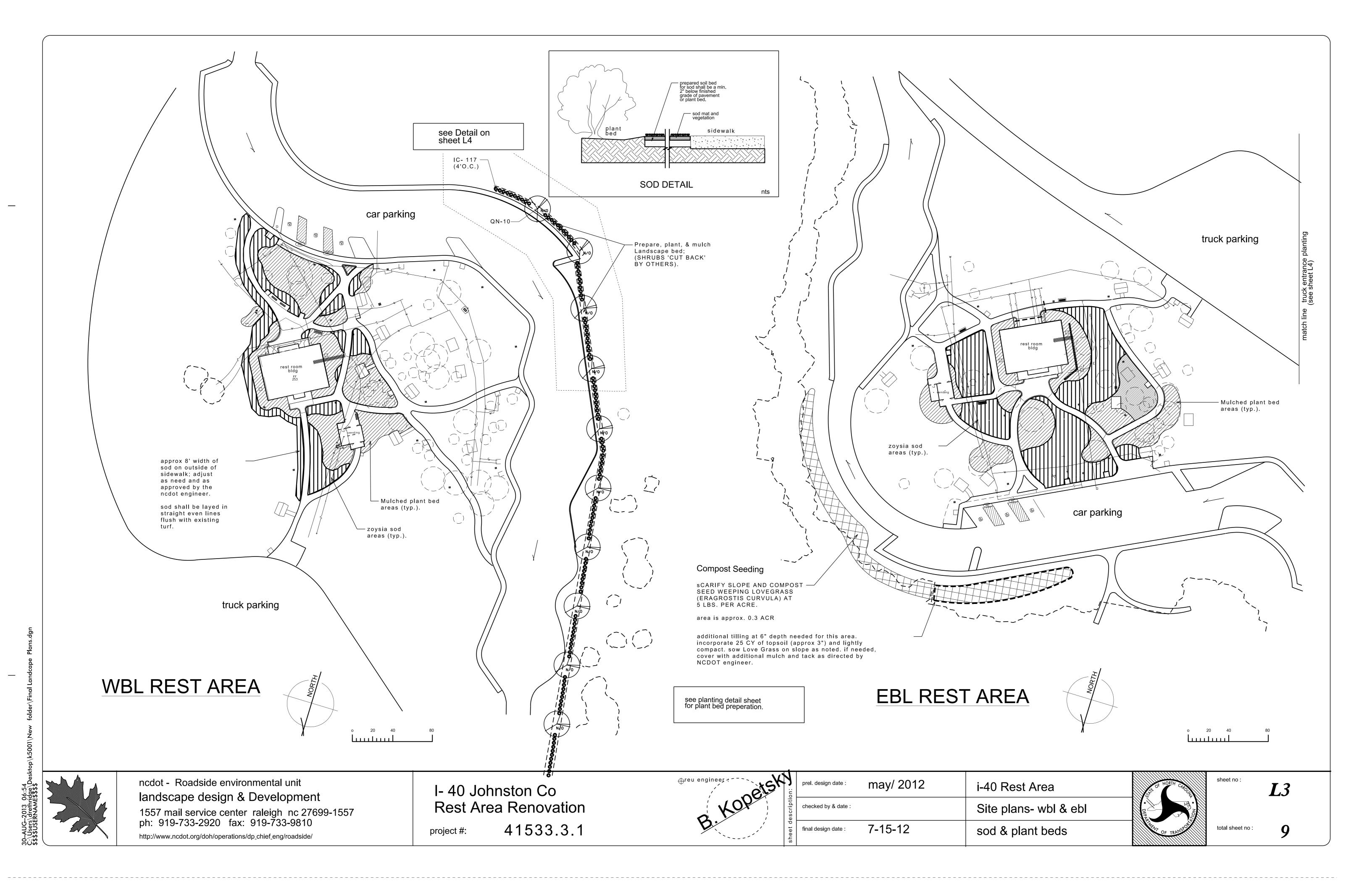
DEPARTMENT OF TRANSPORTATION

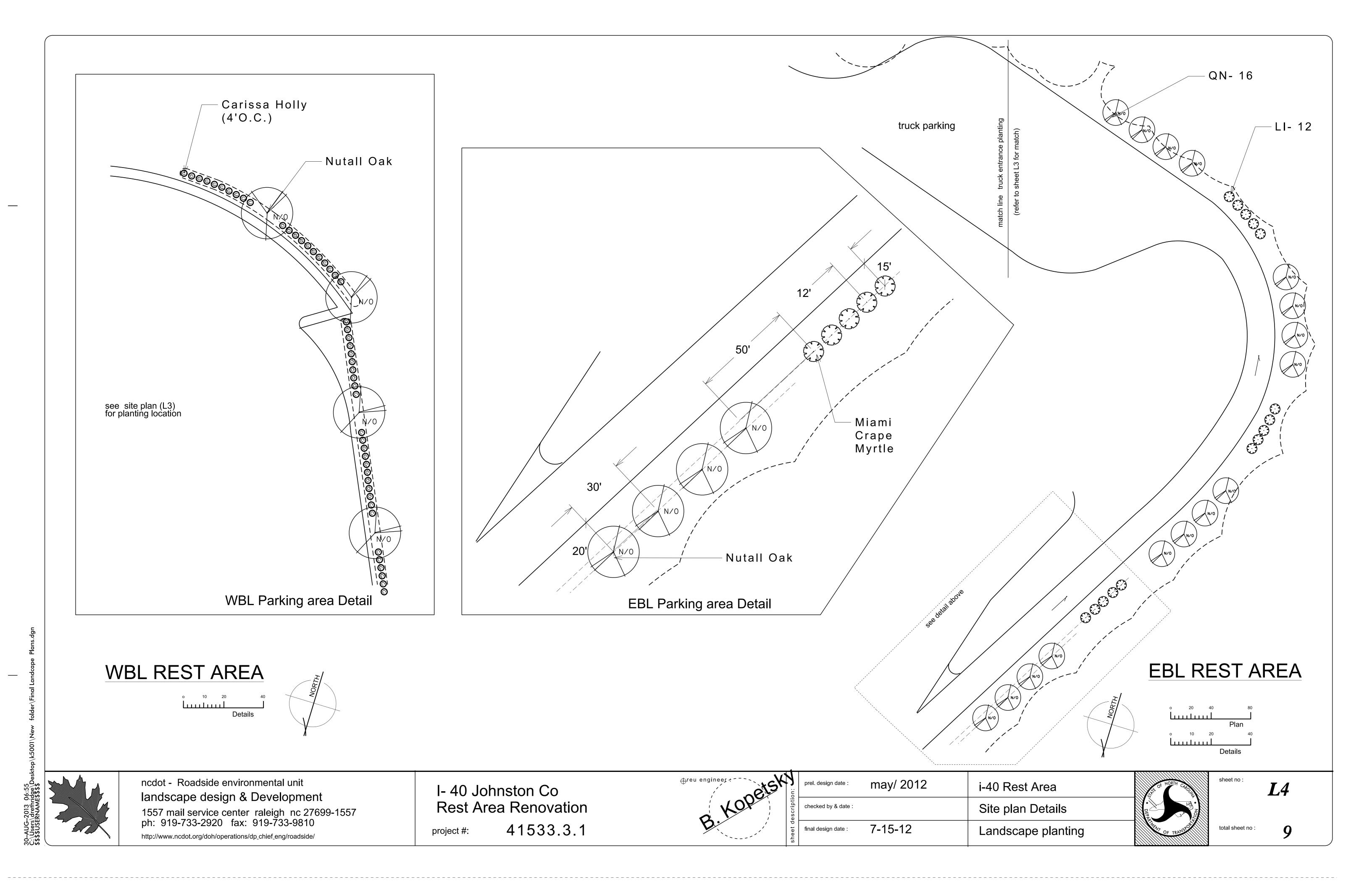
COUNTY: Johnston

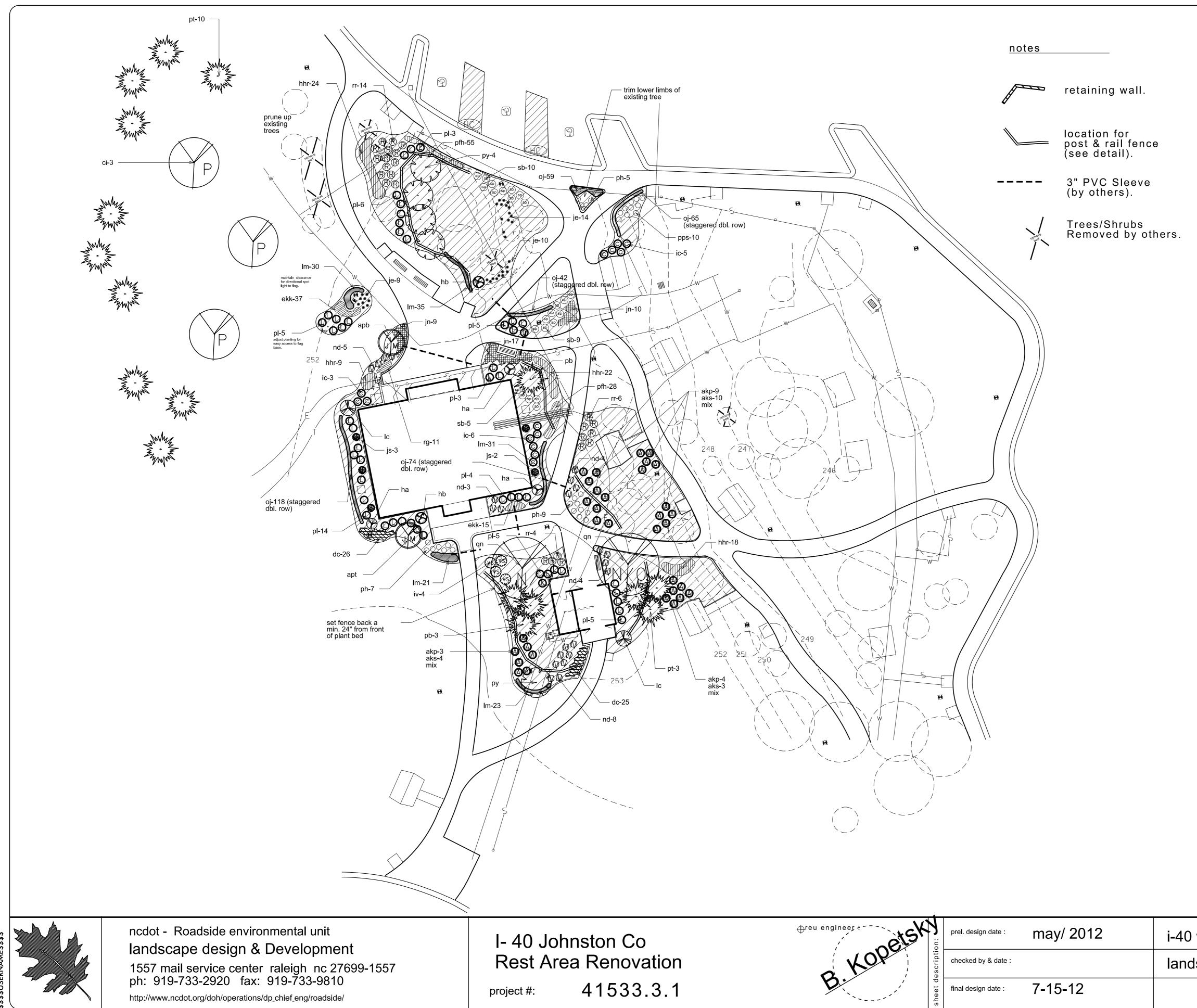
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	Gas Line			
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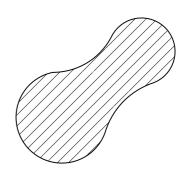
O A AN	DO NOT PLACE MULCH WITHIN 2" OF TRUNK OR STEM.
٩.	MULCH DETAIL
	NOTES: SCHEDULE FOR PLANT HOLE SIZE: PLANT HOLE WIDTH (X) TO BE TWICE THE ROOT BALL SIZE OR CONTAINER DIAMETER.
	SEE STANDARD SPECIFICATIONS FOR PLANT BED FUMIGATION AND HERBICIDAL TREATMENT.Image: Apply Fertilizer at planting time in the form OF a slow release pellet or tablet. Apply AT RATE RECOMMENDED BY MANUFACTURER. BOTH RATE AND FORMULATION MUST BE APPROVED BY FIELD ENGINEER PRIOR TO APPLICATION.
	REMOVE WIRE BASKET AND FOLD BURLAP BACK FROM TOP OF ROOT BALL BEFORE BACKFILLING IS COMPLETE.
	ALL PRUNING TO FOLLOW STANDARD ARBORICULTURAL PRACTICES AS SPECIFIED BY INTERNATIONAL SOCIETY OF ARBORICULTURE.
	DO NOT ATTEMPT TO STRAIGHTEN A TREE THAT HAS BEEN PLANTED AT AN ANGLE WITH THE USE OF STAKING OR GUYING. DIG TREE AND REPLANT TO UPRIGHT POSITION.
	plant bed OR NATURAL AREAS
	width of plant bed varies 3:1 back-slope (MAY VARY) 6" deep PLANT BED EDGE (mow/mulch ring) existing ground level
F	ANT BED EDGE DETAIL
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	d edge detail







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Renovation	Kope		checked by & date :		lands
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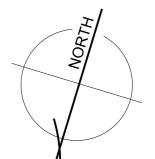
denotes plant bed location. contractor shall apply herbicide (as directed) to remove unwanted vegetation, define bed outline (see planting detals), till/prepare bed as specified, Plant, and add 4" of mulch.

dashed contour lines represent existing grades (pre const)

solid contour lines represent proposed grades.

all PLANT BED AREAS ADJOIninG TURF SHALL BE EDGED PER DETAIL; plant bed soil level along walks or hardscape shall be two inches below grade of hard surface.

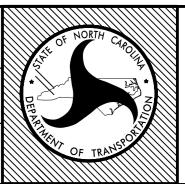
KEY	BOTANICAL NAME	COMM ON NAME	FURNISH	REMARKS
	_			
	Trees		7.01.04.0	
APB	Acer palmatum 'Bloodgood'	Bloodgood Japanese Maple	7-8', B&B	AS SHOWN
APT	Acer palmatum dissectum 'Tamukeyama'	Tamukeyama Cutleaf Japanese Maple	3-4', B&B (or #15 Cont)	AS SHOWN
CI	Carya illinoinensis 'Sumner'	Sumner Pecan	8-10', B&B	AS SHOWN
CF	Comus florida 'Rubra'	Pink Flowering Dogwood	7-8', B&B	AS SHOWN
	Lagerstroemia indica 'Miami'	Miami Crape Myrtle	8-10', B&B	AS SHOWN
PT	Pinus taeda	Loblolly Pine	8-10', B&B	AS SHOWN
PB	Pinus thunbergii	Japanese Black Pine	6-8', B&B	AS SHOWN
PY	Prunus x yedoensis 'Yoshino'	Yoshino Cherry	8-10', B&B	AS SHOWN
QN	Quercus nuttallii	Nutall Oak	10-12', B&B	AS SHOWN
ZS	Zelkova serrata 'Green Vase'	Green Vase Zelkova	10-12', B&B	AS SHOWN
	Shrubs			
AKP	Azalea x Kurume 'Pink Pear'	Pink Pearl Azalea	#3 Cont	AS SHOWN
KS	Azalea x Kurume 'Snow'	Snow Azalea	#3 Cont	AS SHOWN
EA	Euonymous alata' Compacta'	Dwarf Burning Bush	#3 Cont	3' O.C.
HA	Hibiscus syriacus'Aphrodite'	Aphrodite Rose of Sharon	#5 Cont	AS SHOWN
HB	Hydrangea serrata 'Bluebird'	Bluebird Hydrangea	#3 Cont	AS SHOWN
IC	Ilex cornuta 'Carissa'	Carissa Holly	#3 Cont	3' + O.C.
IV	Itea virgini <i>c</i> a 'Henry's Garnet'	Henry's Garnet Sweetspire	#3 Cont	4' O.C.
N	Juniperus procumbens 'Nana'	Japanese Garden Juniper	#1 Cont	3' O.C.
JS	Juniperus scopulorum 'Skyrocket'	Skyrocket Juniper	#5 Cont	AS SHOWN
LC	Loropetalum chinensis rubrum 'Blush'	Blush Loropetalum	#3 Cont	AS SHOW N
ND	Nandina dom estica	Nandina	#3 Cont	AS SHOW N
PL	Prunus laurocerasus 'Otto Luyken'	Otto Luyken Laurel	#3 Cont	4' O.C.
RR	Rosa x 'Radcon'	Pink Double Knockout Rose	#3 Cont	4' O.C.
SB	Spiraea x bumalda 'Anthony Waterer'	Anthony Waterer Spirea	#3 Cont	AS SHOWN
	Groundcovers			
	Groundcovers			
				10"0.0
LM	Liriope muscari 'Big Blue'	Big Blue Liriope	#1 Cont	12″ O. C.
OJ	Ophiopogon japonicus 'Nana'	Dwarf Mondo Grass	#SP4, QT	9″O.C.
	Grasses			
	Juncus effusus	Soft Rush	#1 Cont	AS SHOWN
PPS	Panicum virgatum 'Prairie Sky'	Prairie Sky Switch Grass	#1 Cont	3' O.C.
PH	Pennisetum alepecuroides 'Hamelin'	Hamelin Dwarf Fountain Grass	#1 Cont	24″ O. C.
	Perennials			
APC	Artemisia arborescens 'Powis Castle'	Powis Castle Artemisia	#SP4, QT	
DC	Delosperma cooperí	Hardy Ice Plant	#SP4, QT	12″ O. C.
EKK	Echinacea purpurea 'Kim's Knee High'	Kim's Knee High Coneflower	#SP4, QT	12 0.0. 12″ 0.C.
HR	Hemerocallis 'Happy Returns'	Happy Returns Daylily	#1 Cont	24″ O. C.
AM	Hosta 'Albo-Marginata'	Albo-Marginata Hosta	#1 Cont	AS SHOWN
PFH	Phlox subulata 'Fort Hill'	Fort Hill Phlox	#SP4, QT	12″ O.C.
RG	Rudbeckia fulgida 'Goldstrum'	Goldstrum Black Eyed Susan	#SP4, QT	12 0.0. 12″ 0.C.
nu	Verbena canadensis 'Hom estead Purple'	Hom estead Purple Verbena	#3P4, Q1 #1 Cont	12 0.C. 18″ O.C.
VHP			an Outre	10 0.0.



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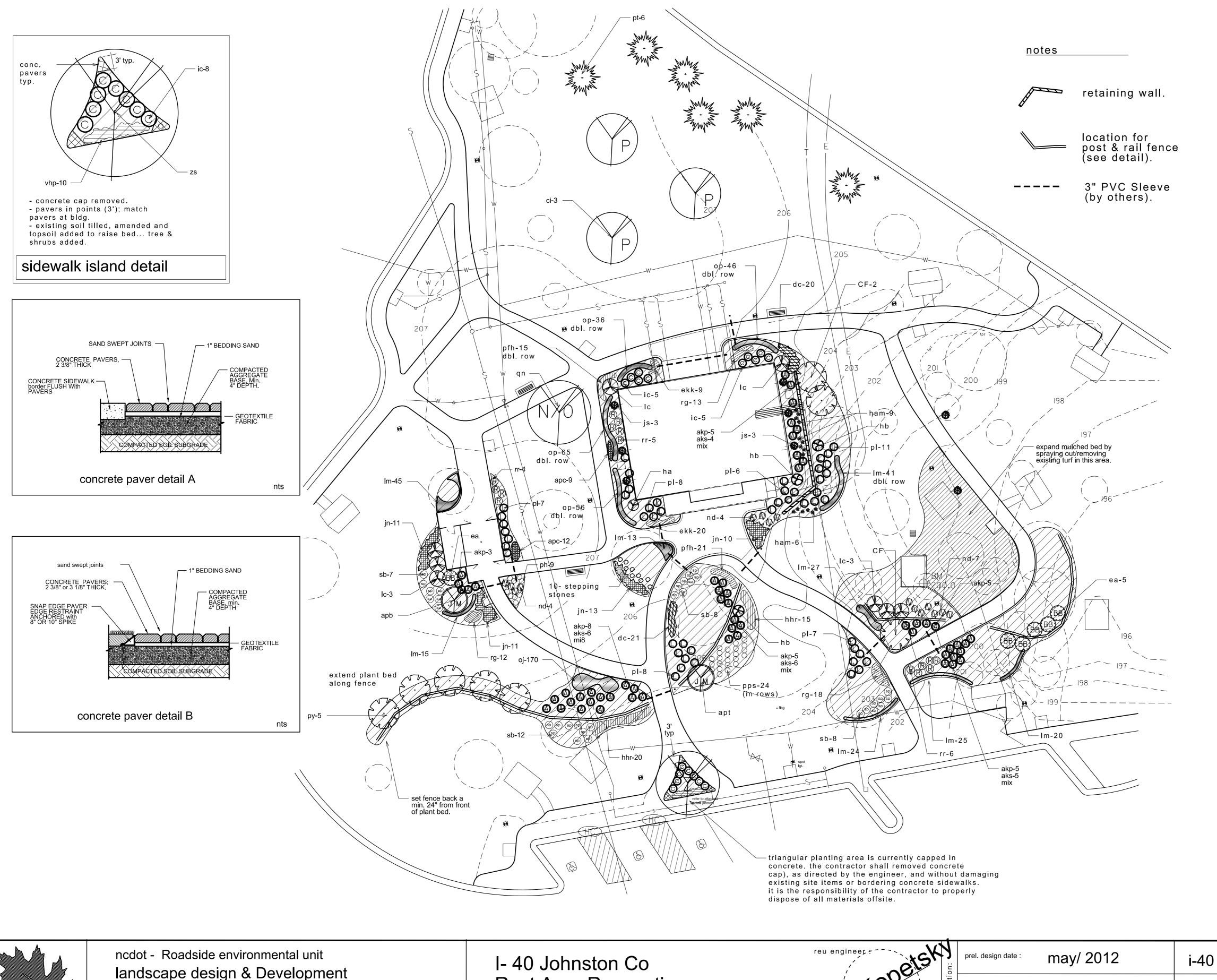


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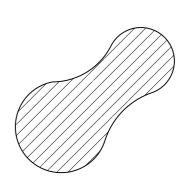
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ncdot - Roadside environmental unit **landscape design & Development** 1557 mail service center raleigh nc 27699-1557 ph: 919-733-2920 fax: 919-733-9810 http://www.ncdot.org/doh/operations/dp_chief_eng/roadside/

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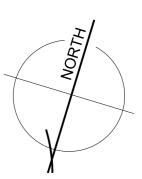
denotes plant bed location. contractor shall apply herbicide (as directed) to remove unwanted vegetation, define bed outline (see planting detals), till/prepare bed as specified, Plant, and add 4" of mulch.

dashed contour lines represent existing grades (pre const)

solid contour lines represent proposed grades.

all PLANT BED AREAS ADJOIninG TURF SHALL BE EDGED PER DETAIL; plant bed soil level along walks or hardscape shall be two inches below grade of hard surface.

ΈY	BOTANICAL NAME	COM MON NAME	FURNISH	REMARKS
	Trees			
PB	Acer palmatum 'Bloodgood'	Bloodgood Japanese Maple	7-8', B&B	AS SHOW N
APT	Acer palmatum bioodgood Acer palmatum dissectum 'Tamukeyama'	Tam ukeyama Cutleaf Japanese Maple	3-4'. B&B (or #15 Cont)	ASSHOWN
CI	Carya illinoinensis 'Sumner'	Sum ner Pecan	8-10', B&B	ASSHOWN
CF	Corrus florida 'Rubra'	Pink Flowering Dogwood	7-8', B&B	ASSHOWN
LI	Lagerstroemia indica 'Miami'	Miami Crape Myrtle	8-10', B&B	ASSHOWN
PT	Pinus taeda	Loblolly Pine	8-10', B&B	ASSHOWN
PB	Pinus thunbergii	Japanese Black Pine	6-6', B&B	ASSHOWN
PY	Prunus x yedoensis 'Yoshino'	Yoshino Cherry	8-10', B&B	ASSHOWN
QN	Quercus nuttallii	Nutall Oak	10-12', B&B	ASSHOWN
ZS	Zelkova serrata 'Green Vase'	Green Vase Zelkova	10-12', B&B	ASSHOWN
	Shrubs			
AKP	Azalea x Kurume 'Pink Pear'	Pink Pearl Azalea	#3 Cont	ASSHOWN
AKS	Azalea x Kurum e 'Snow'	Snow Azalea	#3 Cont	AS SHOW N
EA	Euonymous alata' Compacta'	Dwarf Burning Bush	#3 Cont	3' O.C.
HA	Hibiscus syriacus'Aphrodite'	Aphrodite Rose of Sharon	#5 Cont	AS SHOW N
HB	Hydrangea serrata 'Bluebird'	Bluebird Hydrangea	#3 Cont	AS SHOW N
IC	Ilex cornuta 'Carissa'	Carissa Holly	#3 Cont	3' + O.C.
IV	Itea virginica 'Henry's Garnet'	Henry's Garnet Sweetspire	#3 Cont	4' O.C.
JN	Juniperus procumbens 'Nana'	Japanese Garden Juniper	#1 Cont	3' O.C.
æ	Juniperus scopulorum 'Skyrocket'	Skyrocket Juniper	#5 Cont	ASSHOWN
LC	Loropetalum chinensis rubrum 'Blush'	Blush Loropetalum	#3 Cont	ASSHOWN
ND	Nandina domestica	Nandina	#3 Cont	AS SHOW N
PL	Prunus lauroœrasus 'Otto Luyken'	Otto Luyken Laurel	#3 Cont	4' O.C.
RR	Rosa x 'Radcon'	Pink Double Knockout Rose	#3 Cont	4' O.C.
SB	Spiraea x bumalda 'Anthony Waterer'	Anthony Waterer Spirea	#3 Cont	ASSHOWN
	Groundcovers			
LM	Liriope muscari 'Big Blue'	Big Blue Liriope	#1 Cont	12″ O. C.
OJ	Ophiopogon japonicus 'Nana'	Dwarf Mondo Grass	#SP4. QT	9″ O.C.
00		Dwarr wondo drass	#317, Q1	3 0.0.
	Grasses			
F		Çafe Duch	#1.0+	
JE DDS	Juncus effusus	Soft Rush Proirie Sky Switch Grace	#1 Cont	AS SHOWN
PPS	Juncus effusus Panicum virgatum 'Prairie Sky'	Prairie Sky Switch Grass	#1 Cont	3' O.C.
JE PPS PH	Juncus effusus			
PPS	Juncus effusus Panicum virgatum 'Prairie Sky'	Prairie Sky Switch Grass	#1 Cont	3' O.C.
PPS PH	Juncus effusus Panicum virgatum 'Prairie Sky' Pennisetum alepecuroides 'Ham elin' Perennials	Prairie Sky Switch Grass Ham elin Dwarf Fountain Grass	#1 Cont #1 Cont	3' O.C.
PPS PH APC	<i>Lincus effusus</i> Panicum virgatum 'Prairie Sky' Pennisetum alepecuroides 'Ham elin' Perennials Artemisia arborescens 'Powis Castle'	Prairie Sky Switch Grass Ham elin Dwarf Fountain Grass Powis Castle Artem isia	#1 Cont #1 Cont #SP4, QT	3' O.C. 24‴ O.C.
PPS PH APC DC	Juncus effusus Panicum virgatum 'Prairie Sky' Pennisetum alepecuroides 'Ham elin' Perennials Artemisia arborescens 'Powis Castle' Delosperma cooperi	Prairie Sky Switch Grass Ham elin Dwarf Fountain Grass Powis Castle Artem isia Hardy Ice Plant	#1 Cont #1 Cont #SP4, QT #SP4, QT	3' O.C. 24‴ O.C. 12‴ O.C.
PPS PH APC DC EKK	Juncus effusus Panicum virgatum 'Prairie Sky' Pennisetum alepecuroides 'Ham elin' Perennials Artemisia arborescens 'Powis Castle' Delosperma cooperi Echinacea purpurea 'Kim's Knee High'	Prairie Sky Switch Grass Ham elin Dwarf Fountain Grass Powis Castle Artem isia Hardy Ice Plant Kim 's Knee High Coneflower	#1 Cont #1 Cont #SP4, QT #SP4, QT #SP4, QT	3' O.C. 24‴ O.C. 12‴ O.C. 12″ O.C.
PPS PH APC DC EKK HHR	Juncus effusus Panicum virgatum 'Prairie Sky' Pennisetum alepecuroides 'Ham elin' Perennials Artemisia arborescens 'Powis Castle' Delosperma cooperi Echinacea purpurea 'Kim's Knee High' Hemerocallis 'Happy Returns'	Prairie Sky Switch Grass Ham elin Dwarf Fountain Grass Powis Castle Artem isia Hardy Ice Plant Kim 's Knee High Coneflower Happy Returns Daylily	#1 Cont #1 Cont #SP4, QT #SP4, QT #SP4, QT #1 Cont	3' O.C. 24" O.C. 12" O.C. 12" O.C. 24" O.C. 24" O.C.
PPS PH APC DC EKK HHR HAM	Juncus effusus Panicum virgatum 'Prairie Sky' Pennisetum alepecuroides 'Ham elin' Perennials Artemisia arborescens 'Powis Castle' Delosperma cooperi Echinacea purpurea 'Kim's Knee High' Hemerocallis 'Happy Returns' Hosta 'Albo-Marginata'	Prairie Sky Switch Grass Ham elin Dwarf Fountain Grass Powis Castle Artem isia Hardy Ice Plant Kim 's Knee High Coneflower Happy Returns Daylily Albo-Marginata Hosta	#1 Cont #1 Cont #SP4, QT #SP4, QT #SP4, QT #1 Cont #1 Cont	3' O.C. 24" O.C. 12" O.C. 12" O.C. 24" O.C. AS SHOWN
PPS PH APC	Juncus effusus Panicum virgatum 'Prairie Sky' Pennisetum alepecuroides 'Ham elin' Perennials Artemisia arborescens 'Powis Castle' Delosperma cooperi Echinacea purpurea 'Kim's Knee High' Hemerocallis 'Happy Returns' Hosta 'Albo-Marginata' Phlox subulata 'Fort Hill'	Prairie Sky Switch Grass Ham elin Dwarf Fountain Grass Powis Castle Artem isia Hardy Ice Plant Kim's Knee High Coneflower Happy Returns Daylily Albo-Marginata Hosta Fort Hill Phlox	#1 Cont #1 Cont #SP4, QT #SP4, QT #SP4, QT #1 Cont #1 Cont #SP4, QT	3' O.C. 24" O.C. 12" O.C. 12" O.C. 24" O.C. 24" O.C. AS SHOWN 12" O.C.
PPS PH APC DC EKK HHR HAM	Juncus effusus Panicum virgatum 'Prairie Sky' Pennisetum alepecuroides 'Ham elin' Perennials Artemisia arborescens 'Powis Castle' Delosperma cooperi Echinacea purpurea 'Kim's Knee High' Hemerocallis 'Happy Returns' Hosta 'Albo-Marginata'	Prairie Sky Switch Grass Ham elin Dwarf Fountain Grass Powis Castle Artem isia Hardy Ice Plant Kim 's Knee High Coneflower Happy Returns Daylily Albo-Marginata Hosta	#1 Cont #1 Cont #SP4, QT #SP4, QT #SP4, QT #1 Cont #1 Cont	3' O.C. 24" O.C. 12" O.C. 12" O.C. 24" O.C. AS SHOWN



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bl renovation

cape plan

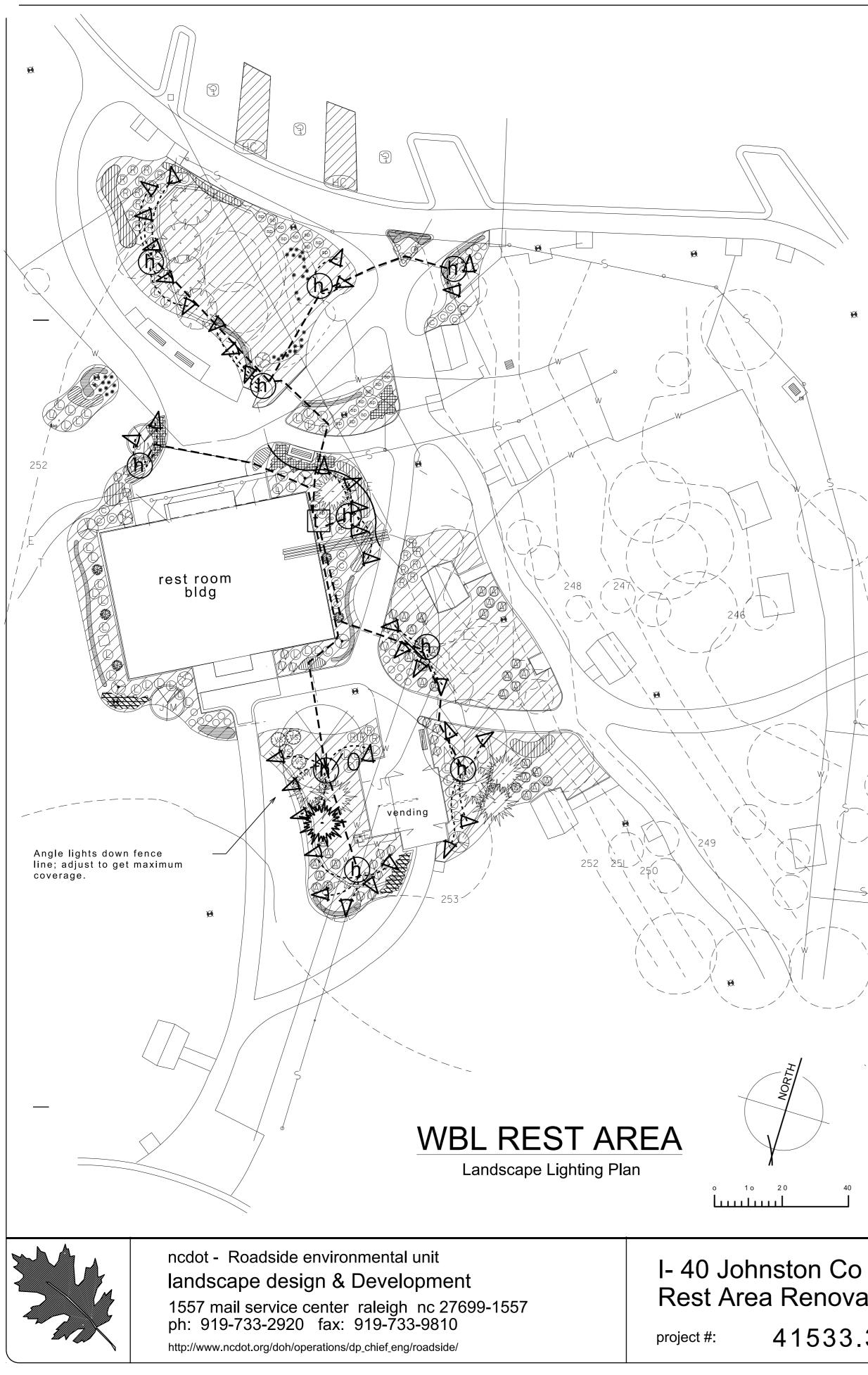


sheet no :



9

total sheet no :



low voltage lighting key

- 600 w MULTI TAP TRANSFORMER with digital timer; specified for use with L.E.D fixtures; STAINLESS STEEL or Black coated CASE (to be determined by NCDOT Engineer); SECURity latch; MOUNTED ON BLDG.
- Integrated L.E.D. 4W Wall Wash (flood); solid brass /bronze body with matching adjustable mount; 10" solid cast \triangleright ground stake.
- Integrated L.E.D. 4W China hat Path Light; solid brass/ bronze body; 24" post and 10" solid cast ground stake. $\langle \mathbb{P} \rangle$
- hub/ splice box BELOW GRADE PVC BOX; LOCATED OUT OF WAY OF MAINT. ACTIVITIES OR OTHER SITE EQUIPMENT TO AVOID DAMAGE. (h)
- homerun wire (#10-2) TIN COATED MARINE GRADE FIELD WIRES; install per MANUFACTURER's SPEC. ____
 - 25' light lead (#16-2)

Notes

1. ALL WIRE RUNS SHALL BE A MIN. 8" DEEP AND set within electrical pvc conduit.

2. ALL WIRE UNIONS AT JUNCTION BOX/ SPIDER SPLICE SHALL BE JOINED WITH A TEFLON WATERPROOF WIRE NUT.

3. SPECIFIC LOCATIONS OF PVC SLEEVES ARE NOTED on the plans noted by a dsahed line.

4. WIRE RUN # SHALL BE LABELED WITHIN THE TRANSFORMER BOX. WIRE RUN # AND SPECIFIC FIXTURE # SHALL BE LABELED WITHIN/ON THE JUNCTION BOXES.

5. EACH LIGHT FIXTURE SHALL COME PRE-WIRED WITH 25' OF #16-2 TIN COATED MARINE GRADE WIRE.

6. place all lights in landscape beḋs.

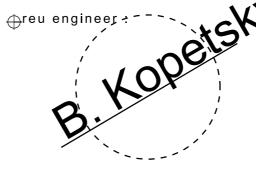
7. adjust wire runs and fixtures in the field to work around site

8. minimize disturbance to root systems of mature trees.

9. direction of lights should be placed to minimize glare to pedestrians... while highlighting landscape features.

Angle lights down fence line; adjust to get maximum coverage.

Rest Area Renovation 41533.3.1

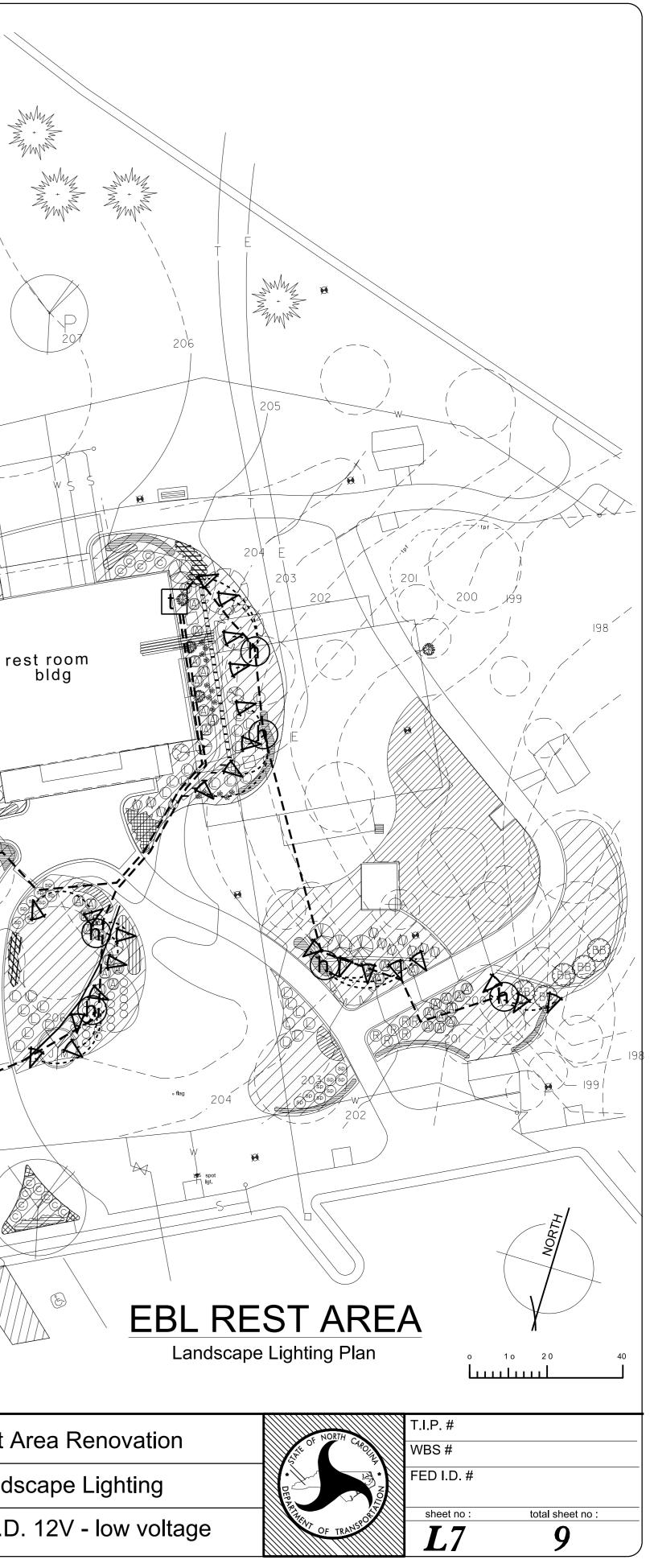


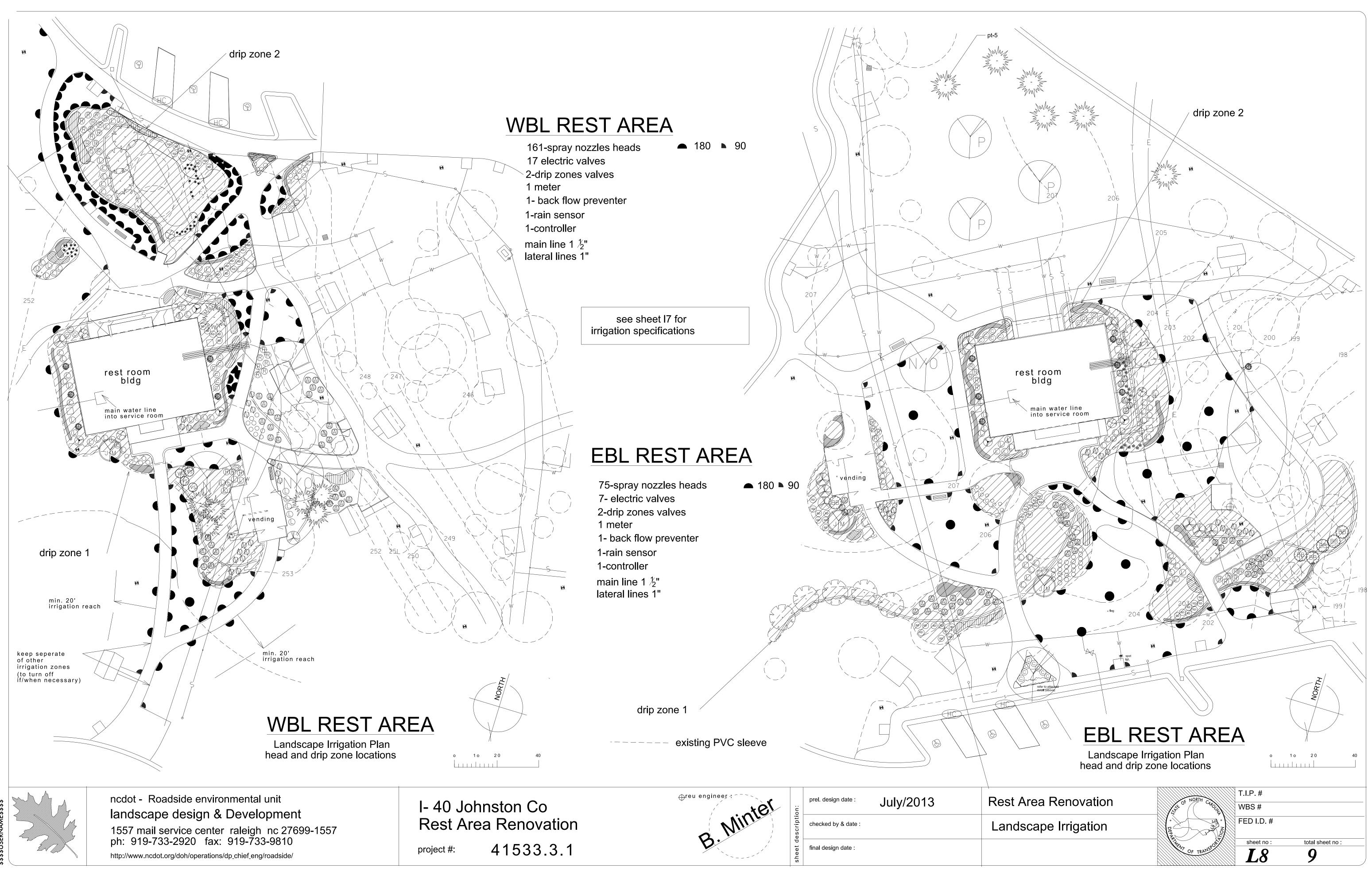
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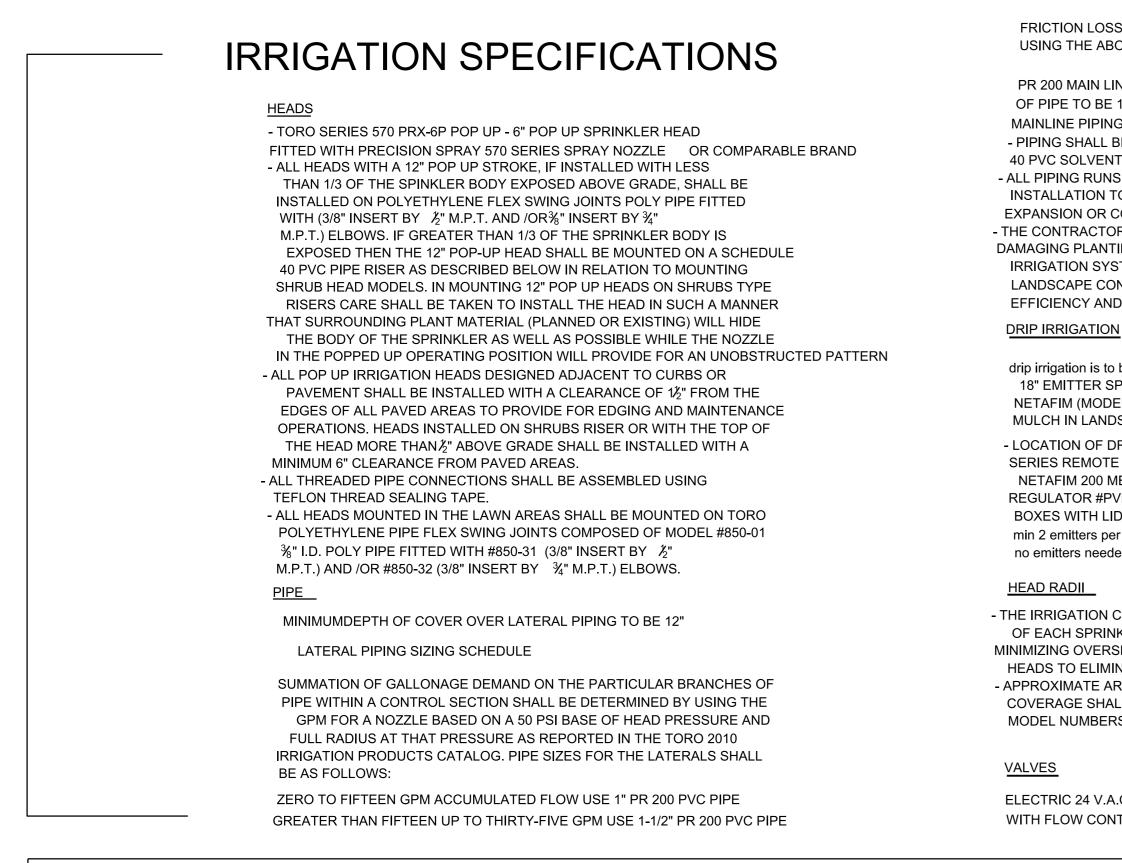
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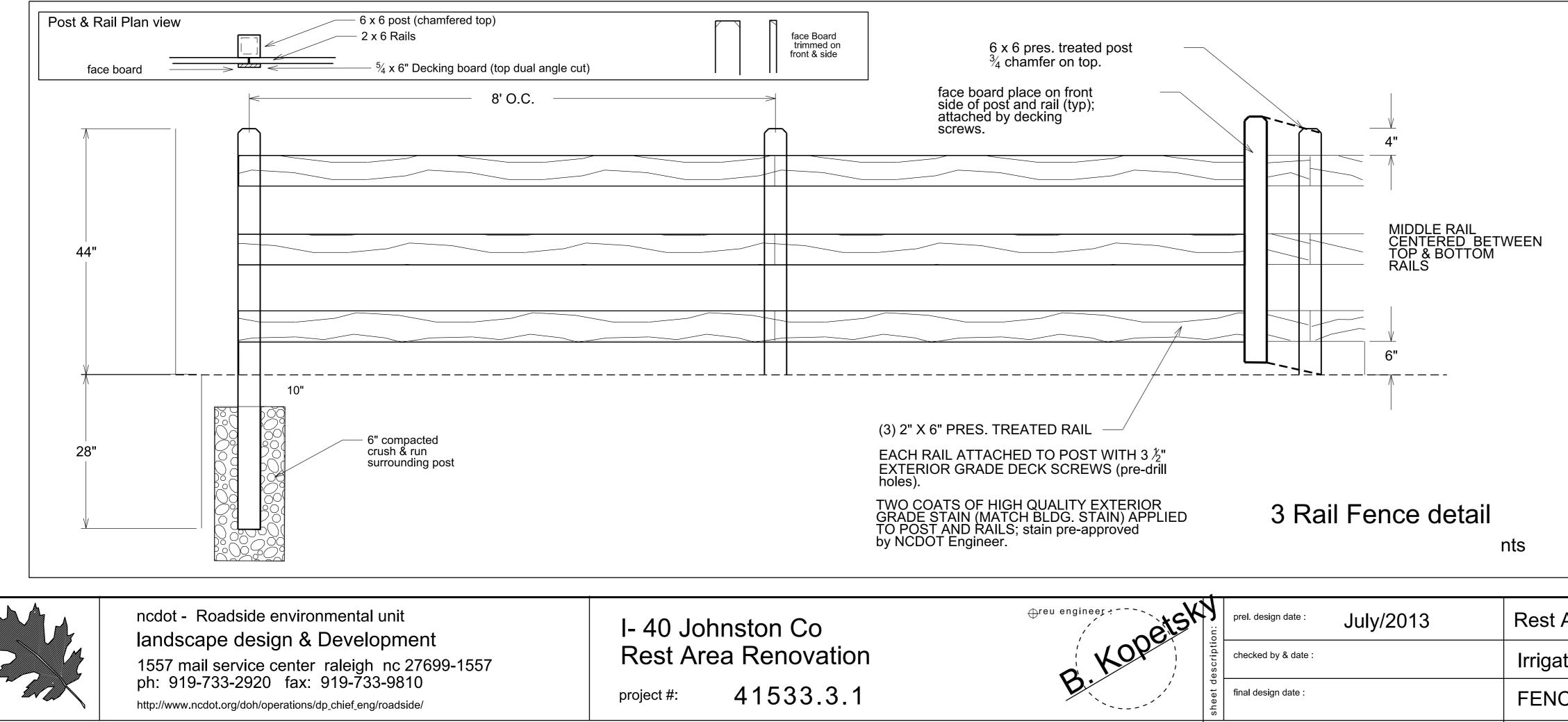




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FRICTION LOSS ALLOWANCES FOR THIS PROJECT HAVE BEEN DETERMINED USING THE ABOVE FLOW RANGES AND DEMANDS

PR 200 MAIN LINE PIPING. SIZE

- OF PIPE TO BE 1-1/2" IN MINIMUM DEPTH OF COVER
- MAINLINE PIPING TO BE 18" - PIPING SHALL BE PR 200 SOLVENT WELD PVC PIPE WITH SCHEDULE
- 40 PVC SOLVENT WELD FITTING UNLESS OTHERWISE NOTED. - ALL PIPING RUNS SHALL BE "SNAKED" IN THE TRENCH DURING
- INSTALLATION TO PREVENT EXCESSIVE STRAIN DUE TO THERMAL
- EXPANSION OR CONTRACTION. - THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID DAMAGING PLANTINGS (INCLUDING ROOTS) DURING INSTALLATION OF THE
- IRRIGATION SYSTEM AND SHALL COORDINATE HIS EFFORTS WITH THE LANDSCAPE CONTRACTOR SO AS TO OPTIMIZE THE
- EFFICIENCY AND THE AESTHETIC QUALITY OF THE INSTALLATION

- drip irrigation is to beTORO NETAFIM TECHLINE $\frac{1}{2}$ " P.E. TUBING, 18" EMITTER SPACING INTERVALS AT 1 GPM EMITTERS INLINE. NETAFIM (MODEL# TLDL-9-1810) TECHLINE TO BE INSTALLED UNDER MULCH IN LANDSCAPE AREAS AS SHOWN ON THE IRRIGATION PLAN. - LOCATION OF DRIP VALVE ASSEMBLY WHICH INCLUDES TORO 250 SERIES REMOTE CONTROL VALVE WITH FLOW CONTROL FEATURE, NETAFIM 200 MESH FILTER #DF150-140, AND NETAFIM PRESSURE REGULATOR #PVR15045. FLOW CONTROLVALVES SHALL BE AS NOTED ON BOXES WITH LIDS MOUNTED AT GRADE LEVEL. min 2 emitters per shrub - 3 emitters per tree
- no emitters needed for ornamental grasses

- THE IRRIGATION CONTRACTOR SHALL ADJUST THE RADIUS AND THROW OF EACH SPRINKLER HEAD TO PROVIDE OPTIMUM COVERAGE WHILE MINIMIZING OVERSPRAY ONTO HARDSCAPES OR BUILDINGS. ADJUST HEADS TO ELIMINATE DRY SPOTS. must be head to head coverage - APPROXIMATE ARC AND RADIUS OF INDIVIDUAL SPINKLER HEAD COVERAGE SHALL BE AS ILLUSTRATED. INDIVIDUAL HEAD OR NOZZLE MODEL NUMBERS MAY BE DEPENDENT UPON THESE SPECIFIC CHARACTERISTICS

ELECTRIC 24 V.A.C. REMOTE CONTROL VALVE WITH FLOW CONTROL FEATURE (MODEL # TORO 250-06-04). - ALL IN-LINE REMOTE CONTOL VALVES SHALL BE INSTALLED IN CARSON VALVE BOXES WITH LIDS MOUNTED AT GRADE LEVEL. SINGLE VALVES MAY BE INSTALLED IN CARSON MODEL #910-1 VALVE BOX WITH #910-2 COVER, WHILE MULTIPLE VALVES (UP TO, TWO 1" VALVES OR ONE, 1-1/2" SHALL BE INSTALLED IN CARSON MODEL #1419-1 BOX WITH #1419-2 COVER

BACKFLOW PREVNTION

- REDUCED PRESSURE BACKFLOW
- PREVENTER ASSEMBLY WHICH SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR. THE BACKFLOW SHALL BE 1" IN SIZE.
- THE BACKFLOW ASSEMBLY SHALL BE INSTALLED DOWNSTREAM OF THE IRRIGATION METER . THE UNIT MUST BE
- INSTALLED IN ACCORDANCE WITH ALL LOCAL AND STATE CODE REQUIREMENTS AND SHALL HAVE AN APPOVED COVER.

WATER SUPPLY

THE METER SHALL BE THE OWNER'S RESPONSIBILITY. THE METER IS 1" IN SIZE. SINCE THE WATER SUPPLY FOR THE SYSTEM SHALL BE POTABLE WATER, THE CONTRACTOR WILL BE REQUIRED TO INSTALL BACKFLOW PREVENTION DEVICE WHICH WILL BE LOCATED DOWNSTREAM OF THE IRRIGATION METER

MAXIMUM WITH ONE CONTROL STATION OPERATING AT A TIME AT 60 PSI AT THE BASE OF THE HEAD FOR OPTIMUM PERFORMANCE OF THE IRRIGATION SYSTEM

CONTROLLER

THE CONTROLLER

SHALL BE CUSTOM COMMAND (TMC-424 e SERIES) SOLID STATE UNIT WHICH SHALL BE OF THE WALL MOUNT STYLE. THE CONTROLLER SHALL INCORPORATE 24 V.A.C.

APPROXIMATE LOCATION will be given by division roadside engineer - ALL ELECTRICAL CONNECTIONS AND INSTALLATIONS SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS. - ALL 120 VAC WIRING SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE ELECTRICAL CODE REQUIREMENTS. NOTE: THE OWNER SHALL BE RESPONSIBLE FOR PROVIDING A 120 VAC POWER CIRCUIT AT THE CONTROLLER LOCATION. THE POWER SOURCE SHALL BE CAPABLE OF SUPPORTING A 10 AMPERE LOAD AT 120 VAC.

GENERAL NOTES PLACES VALVES (BOXES) IN PLANT BEDS WHERE-EVER POSSIBLE
CONTRACTOR IS TO MINIMIZE DISTURBANCE IN SOD AREA.
(CUT AND REPLACE SOD)
PLACE PRESSURE REDUCING VALVE IN DISCREET LOCATION
SLEEVING
THE IRRIGATION CONTRACTOR SHALL COORDINATE THE INSTALLATION
OF THE IRRIGATION SYSTEM WITH THE LANDSCAPE CONTRACTOR TO
INSURE PROPER INSTALLATION OF BOTH THE IRRIGATION SYSTEM WITH THE LANDSCAPE AND HARDSCAPE.
THE IRRIGATION SYSTEM IS DISPLAYED SCHEMATIC IN NATURE.
THE IRRIGATION CONTRACTOR MAY BE REQUIRED TO MAKE MINOR
ADJUSTMENTS IN THE FIELD. THESE MINOR ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER BUT SHALL BE MADE
ONLY AFTER NOTIFICATION IS MADE TO OWNER. (NC DOT)
THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE SO THAT HE IS AWARE OF ANYSPECIAL CONDITIONS
WHICH EXIST THAT MAY AFFECT HIS BID
PROPOSAL AND SHALL THEREAFTER BE RESPONSIBLE FOR ALL COST INCURRED
BY HIMSELF IN RELATION TO THE INSTALLATION.
24 VAC CONTROL WIRING
ALL 24 V.A.C. CONTROL WIRING SHALL BE SINGLE STRAND COPPER
WIRE WITH POLYETHYLENE PE DIRECT BURIAL INSULATION RATED FOR
300 V.A.C. VALVE "COMMON" WIRES SHALL HAVE WHITE INSULATION WHILE VALVE "HOT" WIRES SHALL HAVE INSULATION RED IN COLOR.
THE "COMMON" WIRES SHALL BE #14 AWG. "HOT" WIRES SHALL BE #14
AWG. VALVE WIRING SHALL FOLLOW MAINLINE PIPING WHERE FEASIBLE AND SHALL BE LAID IN A COMMON TRENCHLINE WITH THE MAINLINE
PIPING AND IN THE BOTTOM OF THE TRENCH. WIRING SHALL BE
"BUNDLED" AND TAPED AT INTERVALS OF APPROXIMATELY TEN FEET.
ALL WIRING SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODE REQUIREME WIRE SPLICES SHALL BE KEPT TO AN ABSOLUTE MINIMUM. WHERE
MAJOR CONCENTRATIONS OF SPLICES ARE NECESSARY SAID SPLICES
SHALL BE PLACED IN A CARSON #910-1 VALVE BOX, WITH#910-2 COVER INSTALLED AT GRADE LEVEL. SPLICES AT VALVE LOCATIONS
SHALL BE MADE INSIDE OF THE VALVE BOX. ALL SPLICE LOCATIONS
SHALL BE NOTED ON THE AS BUILT PLAN. - WIRE RUNS SHALL BE INSTALLED WITH ENOUGH SLACK AND / OR
OCCASIONAL EXPANSION LOOPS TO PREVENT EXCESSIVE STRAIN
DUE TO THERMAL CONTRACTION.
ALL WIRE SPLICES SHALL BE MADE USING UL APPROVED DIRECT
BURIAL CONNECTORS AND WATERPROOFING MATERIALS. ALL ELECTRICAL WORK SHALL BE INSTALLED ACCORDING TO CODE
rrigation notes
THE IRRIGATION SYSTEM IS DISPLAYED SCHEMATIC IN NATURE.
THE IRRIGATION CONTRACTOR MAY BE REQUIRED TO MAKE MINOR
ADJUSTMENTS IN THE FIELD. THESE MINOR ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER BUT SHALL BE MADE
ONLY AFTER NOTIFICATION IS MADE TO OWNER. (NC DOT)
THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE
SO THAT HE IS AWARE OF ANY SPECIAL CONDITIONS WHICH EXIST THAT MAY AFFECT HIS BID
PROPOSAL AND SHALL THEREAFTER BE
RESPONSIBLE FOR ALL COST INCURRED BY HIMSELF IN RELATION TO THE INSTALLATION.
all irrigation products are to be
toro or a comparable brand

Rest Area Renovation

Irrigation specs &

FENCE DETAIL

