

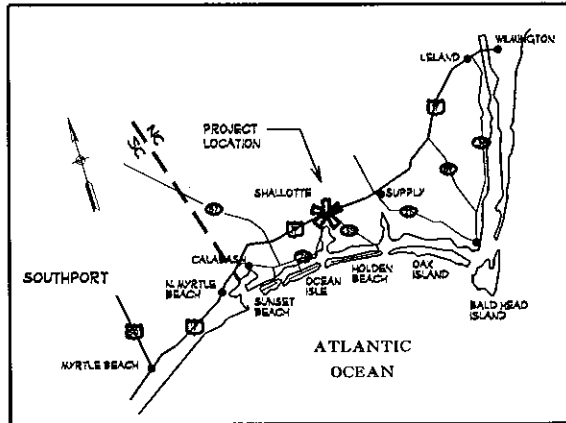


PROPOSED HIGHWAY LANDSCAPE DEVELOPMENT PROJECT

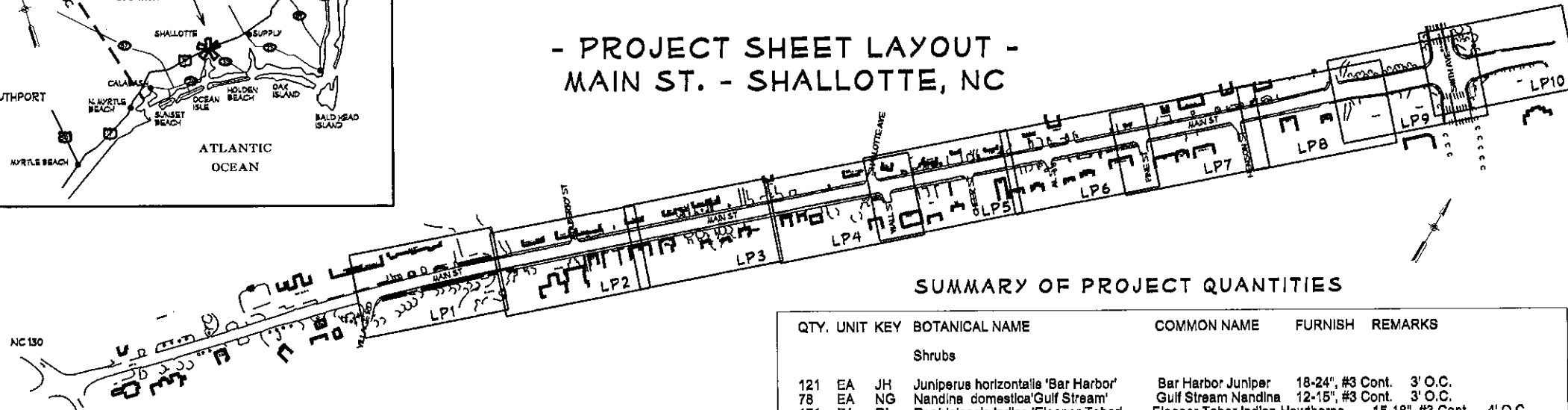


PROJECT: MAIN ST. LANDSCAPE IMPROVEMENTS, SHALLOTTE, NC

PROJECT LOCATION



- PROJECT SHEET LAYOUT - MAIN ST. - SHALLOTTE, NC



SUMMARY OF PROJECT QUANTITIES

QTY.	UNIT	KEY	BOTANICAL NAME	COMMON NAME	FURNISH	REMARKS
Shrubs						
121	EA	JH	Juniperus horizontalis 'Bar Harbor'	Bar Harbor Juniper	18-24", #3 Cont.	3' O.C.
78	EA	NG	Nandina domestica 'Gulf Stream'	Gulf Stream Nandina	12-15", #3 Cont.	3' O.C.
171	EA	RI	Raphiolepis indica 'Eleanor Tabor'	Eleanor Tabor Indian Hawthorne	15-18", #3 Cont.	4' O.C.
234	EA	RR	Rosa x 'Radtko'	Red Dbl. Knockout Rose	15-18", #3 Cont.	AS SHOWN
Native Grasses						
96	EA	JE	Juncus 'Blue Arrows'	Blue Arrows Rush	#1 Cont.	30" O.C.
429	EA	LL	Lomandra longifolia 'Breeze'	Breeze Grass	#2 Cont.	30" O.C.
1047	EA	LM	Liriope muscari 'Big Blue'	Big Blue Liriope	#1 Cont.	12" O.C.
324	EA	MC	Muhlenbergia capillaris	Pink Muhly Grass	#1 Cont.	30" O.C.
Daylilies						
131	EA	HML	Hemerocallis 'Mauna Loa'	Mauna Loa Daylily	#1 Cont.	24" O.C.
188	EA	HMT	Hemerocallis 'Mary Todd'	Mary Todd Daylily	#1 Cont.	24" O.C.
49	EA	HSC	Hemerocallis 'Strawberry Candy'	Strawberry Candy Daylily	#1 Cont.	24" O.C.
Other Perennials						
99	EA	DC	Delosperma cooperi	Hardy Ice Plant	#SP4, QT	12" O.C.
21	EA	EP	Echinacea purpurea 'Kim's Knee High'	Kim's Knee High Coneflower	#1 Cont.	12" O.C.
46	EA	PA	Perovskia atriplicifolia 'Little Spire'	Little Spire Russian Sage	#1 Cont.	24" O.C.
46	EA	RE	Rudbeckia fulgida 'Early Bird Gold'	Early Bird Gold Black Eyed Susan	#SP4, QT	18" O.C.
79	EA	SAJ	Sedum 'Autumn Joy'	Autumn Joy Sedum	#1 Cont.	12" O.C.
10	EA	VH	Verbena 'Homestead Purple'	Homestead Purple Verbena	#SP4, QT	18" O.C.
Descriptions						
126	CY		Mulch for Planting			
50	MG		Water for Planting			
128	CY		Topsoil			
1,890	SF		Brick Pavement			
357	LF		Landscape edge restraint			
1,100	SY		Pre emergence Herbicidal Treatment			
1,100	SY		Post emergence Herbicidal Treatment			

CONVENTIONAL SYMBOLS

County Line	-----
City or Town Line	-----
Exist. Right of Way Line Marker	-----▲-----
Prop. Right of Way Line Marker (By Others)	-----▲-----
Prop. Right of Way Line Marker (By Contract)	-----▲-----
Exist. Control of Access Line	-----○-----
Prop. Control of Access Line	-----○-----
Property Line	-----○-----
Easement Line	-----○-----
Slope Stake Line	-----○-----
Exist. Fence	-----○-----
Prop. Woven Wire Fence	-----○-----
Prop. Chain Link Fence	-----○-----
Exist. Road	-----○-----
Prop. Road	-----○-----
Guardrail	-----○-----
Survey Line	-----○-----
Denotes Line Equality	-----○-----
Bridge	-----○-----
Culvert	-----○-----
Railroad	-----○-----
Woods	-----○-----
Exist. Telephone Pole	-----○-----
Prop. Telephone Pole	-----○-----
Tower Pole and Line	-----○-----
Exist. Power Pole	-----○-----
Prop. Power Pole	-----○-----
Sanitary Sewer Line	-----○-----
Water Line	-----○-----
Gas Line	-----○-----
Picnic Shelter	-----○-----
Regeneration	-----○-----
Reforestation	-----○-----

SYMBOLS UNIQUE TO THESE PLANS

MAILBOX	-----○-----
RAISED UTILITY BOX	-----○-----
DIRECTIONAL SIGN	-----○-----
UTILITY POST	-----○-----
FIRE HYDRANT	-----○-----

INDEX OF SHEETS:

- LT ... TITLE SHEET, SUMMARY OF QUANTITIES
- LPD ... PLANTING & CONSTRUCTION DETAILS
- LP1- LP10 ... LANDSCAPE PLANS

PREPARED BY: BK DATE: NOV/2012

REVISIONS

DATE	DESCRIPTION



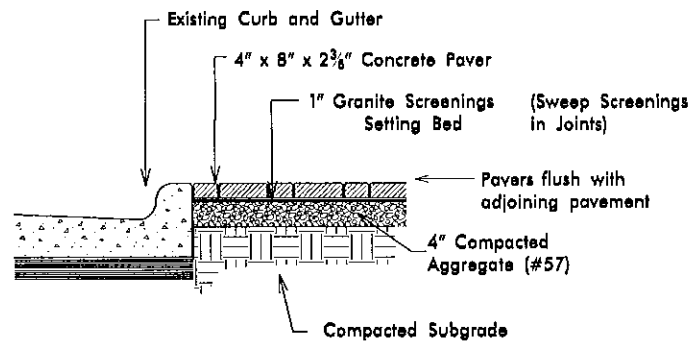
STATE OF
NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

LOCATION: MAIN STREET, SHALLOTTE, NC

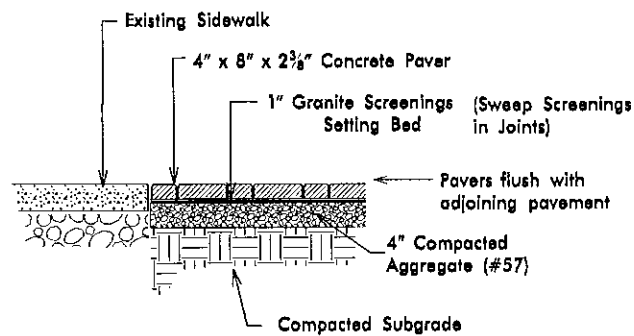
TYPE OF WORK: LANDSCAPE IMPROVEMENT PROJECT

COUNTY: BRUNSWICK

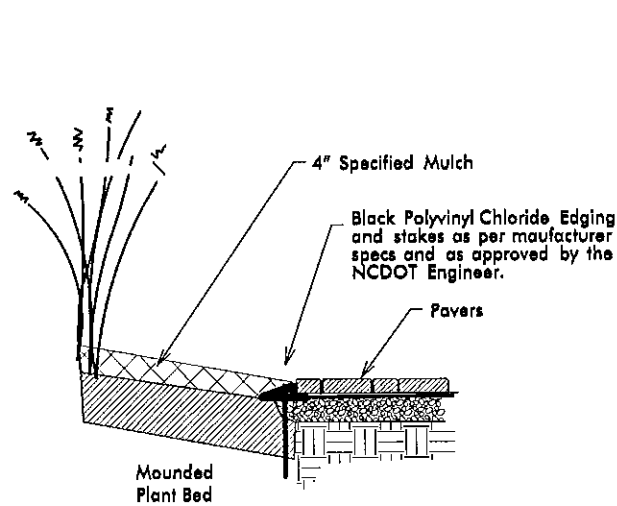
2004 American Standard for Nursery Stock
2012 NCDOT STANDARD SPECIFICATIONS
PREPARED IN THE OFFICE OF:
NCDOT- ROADSIDE ENVIRONMENTAL UNIT
LANDSCAPE DESIGN & DEVELOPMENT SECTION
1557 MAIL SERVICE CENTER
RALEIGH NC 27899 919-733-2920



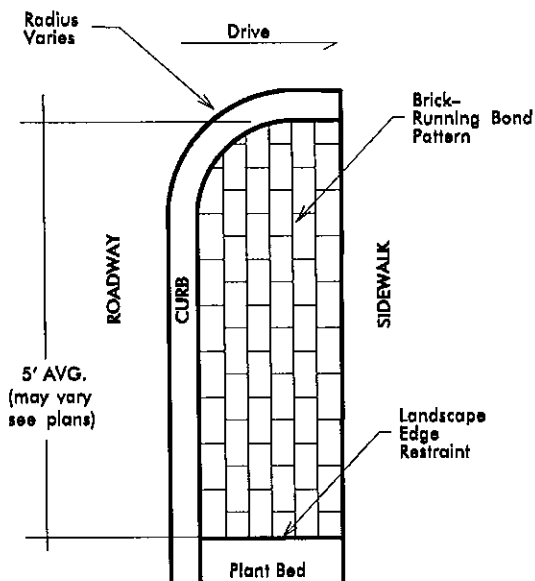
PAVERS ADJACENT TO CURB DETAIL



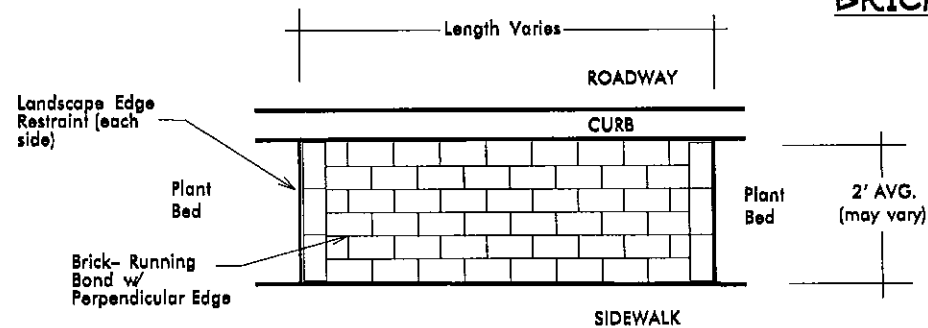
PAVERS ADJACENT TO SIDEWALK DETAIL



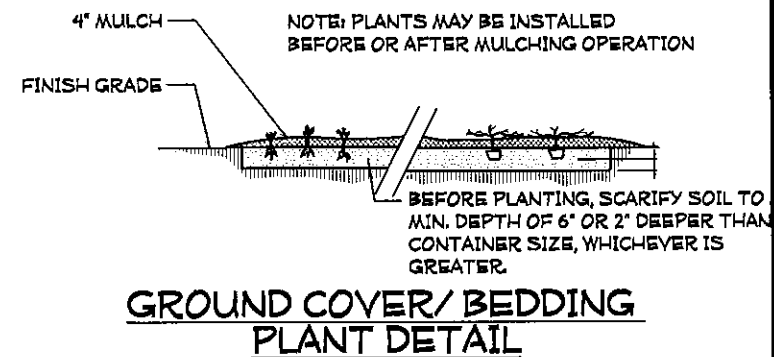
EDGE RESTRAINT FOR PAVERS DETAIL



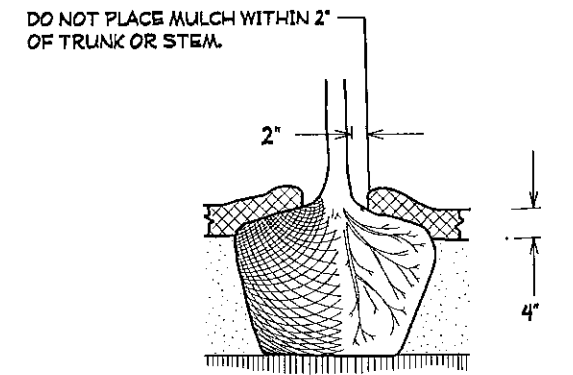
BRICK END CAP DETAIL



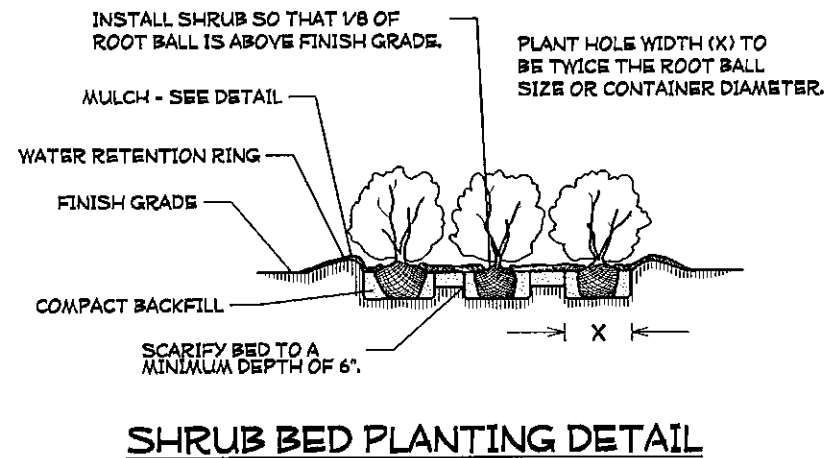
BRICK PAVEMENT DETAIL



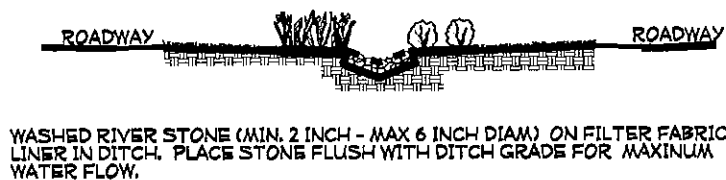
GROUND COVER/ BEDDING PLANT DETAIL



MULCH DETAIL

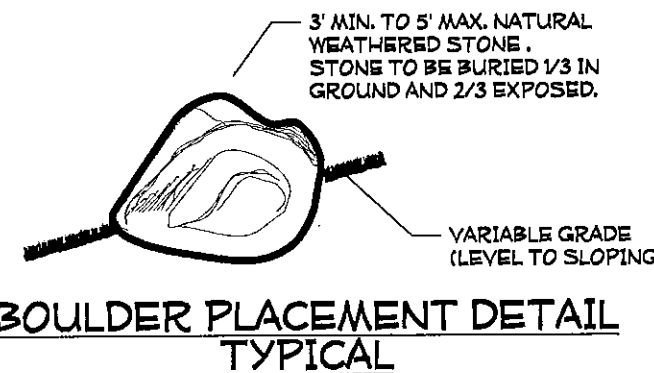


SHRUB BED PLANTING DETAIL

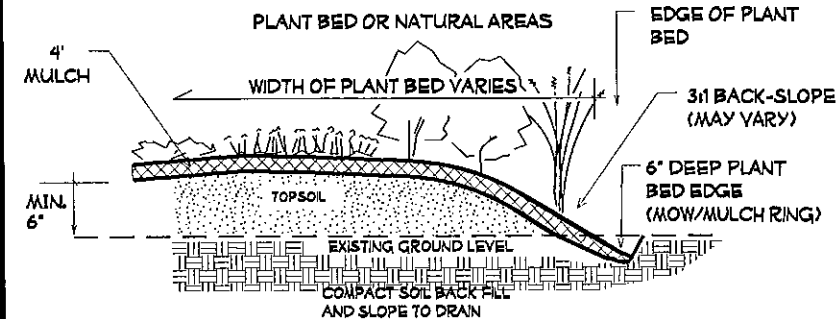


RIVERSTONE DITCH LINING DETAIL

- 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.
 - 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.



BOULDER PLACEMENT DETAIL TYPICAL



PLANT BED EDGE DETAIL

 SYSTEM *****
 11/15/2012 *****



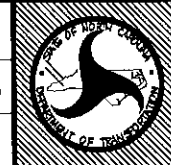
NCDOT - ROADSIDE ENVIRONMENTAL UNIT
 LANDSCAPE DESIGN & DEVELOPMENT
 1557 MAIL SERVICE CENTER RALEIGH NC 27699-1557
 PH: 919-733-2920 FAX: 919-733-9810
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MAIN ST LANDSCAPE IMPROVEMENTS
 SHALLOTTE, NC
 BRUNSWICK Co. NC

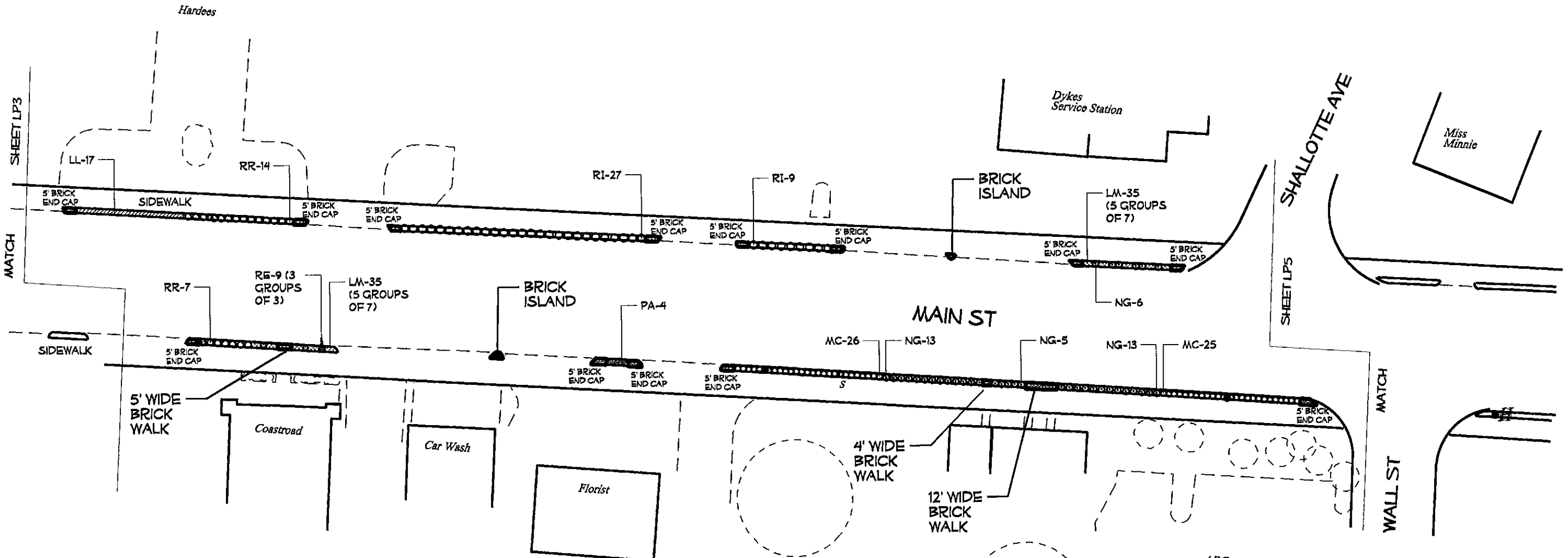
REV. ENGINEER
B. Kopetsky

PREL. DESIGN DATE:	NOV/2012
CHECKED BY & DATE:	
FINAL DESIGN DATE:	

PLANTING &
 CONSTRUCTION DETAILS



T.I.P. #
 WBS # 3703.3.19
 FED. I.D. #
 SHEET NO. 12
 TOTAL SHEET NO. 12
LPD



SHRUBS

JH	Juniperus horizontalis 'Bar Harbor'	Bar Harbor Juniper
NG	Nandina domestica 'Gulf Stream'	Gulf Stream Nandina
RI	Raphiopalms indica 'Eleanor Tabor'	Eleanor Tabor Indian Hawthorne
RR	Rosa x 'Radiko'	Red Obl. Knockout Rose

NATIVE GRASSES

JE	Juncea 'Blue Arrows'	Blue Arrows Rush
LL	Lomandra longifolia 'Breeze'	Breeze Grass
LM	Liriope muscari 'Big Blue'	Big Blue Liriope
MC	Muhlenbergia capillaris	Pink Muhly Grass

DAYLILIES

HML	Hemerocallis 'Mauna Loa'	Mauna Loa Daylily
HMT	Hemerocallis 'Mary Todd'	Mary Todd Daylily
HSC	Hemerocallis 'Strawberry candy'	Strawberry Candy Daylily

OTHER PERENNIALS

DC	Delosperma cooperi	Hardy Ice Plant
EP	Echinacea purpurea 'Kim's Knee High'	Kim's Knee High Coneflower
PA	Perovskia atriplicifolia 'Little Spire'	Little Spire Russian Sage
RE	Rudbeckia fulgida 'Early Bird Gold'	Early Bird Gold Black Eyed Susan
SAJ	Sedum 'Autumn Joy'	Autumn Joy Sedum
VH	Verbena 'Homestead Purple'	Homestead Purple Verbena

NOTES

- IDENTIFY ALL SUBSURFACE UTILITIES PRIOR TO WORK.
- REMOVE EXISTING VEGETATION/TURF WHERE PLANTINGS ARE PROPOSED (IN PLANTING STRIP) PREPARED BY INCORPORATING 4" OF TOPSOIL GRADE PER SPECIFICATIONS AND AS DIRECTED BY THE NCDOT ENGINEER.
- ALIGN PROPOSED BRICK WALKS WITH EXISTING WALKS (WHERE APPLICABLE).
- USE SPEC'D METAL EDGING TO CONTAIN BRICK WALKS & END CAPS (SEE DETAILS).
- CENTER LARGE PLANT MATERIAL (ANY PLANTS WHOSE SPACING IS 24" O.C. OR GREATER) EQUAL DISTANT BETWEEN CURB AND PARALLEL SIDEWALK; SMALLER PLANT MATERIAL SHALL BE SPACED AS SPEC'D. DO NOT PLANT ANYTHING CLOSER THAN 8" FROM PAVEMENT.



11/15/2012 10:58:55 AM C:\WORK\3703.3.19\3703.3.19.DWG



NCDOT - ROADSIDE ENVIRONMENTAL UNIT
LANDSCAPE DESIGN & DEVELOPMENT
 1557 MAIL SERVICE CENTER RALEIGH NC 27699-1557
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[HTTP://WWW.NCDOT.ORG/DOH/OPERATIONS/DP.CHEIF_ENG/ROADSIDE/](http://www.ncdot.org/doh/operations/dp.chief_eng/roadside/)

MAIN ST LANDSCAPE IMPROVEMENTS
SHALLOTTE, NC
 WBS # 3703.3.19

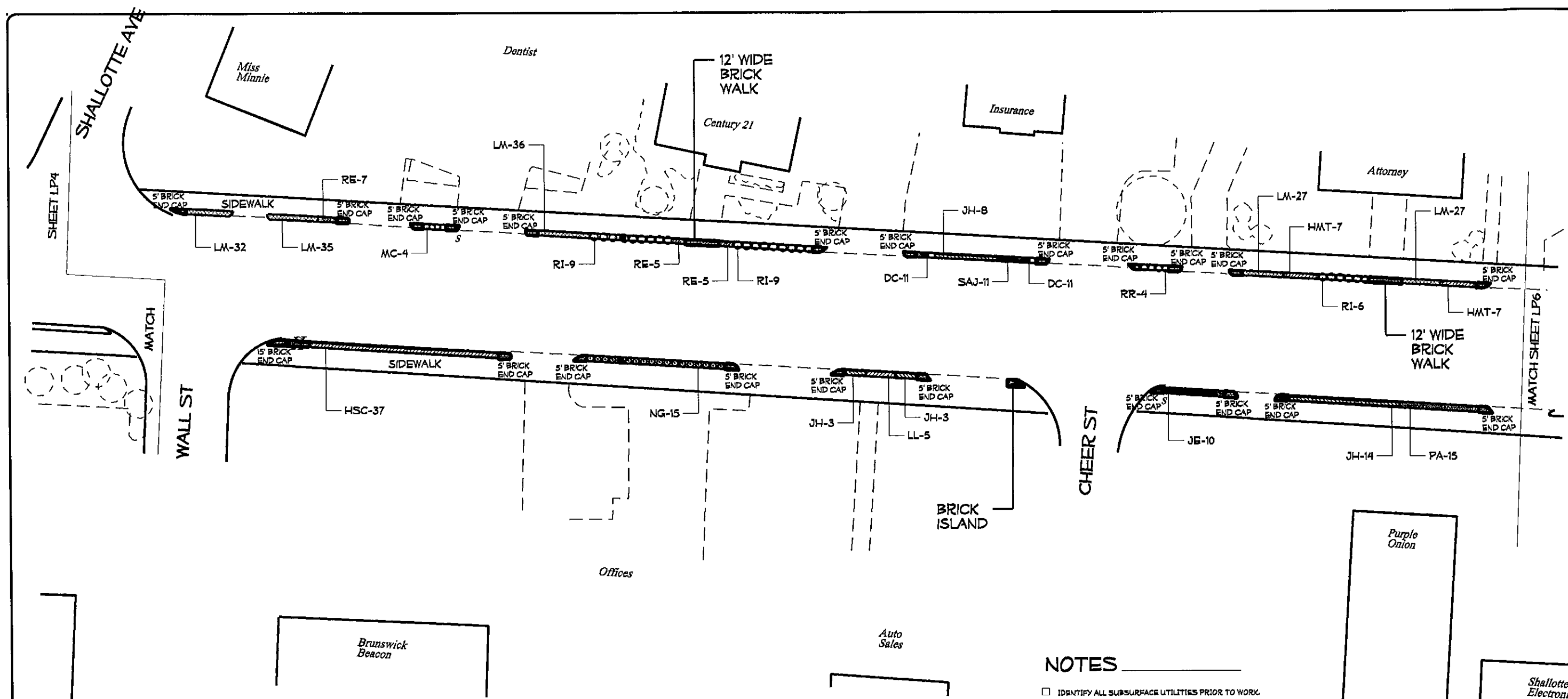
R. Kopetsky

SHEET DESCRIPTION:
 PREL DESIGN DATE: NOV/ 2012
 CHECKED BY & DATE:
 FINAL DESIGN DATE:

LANDSCAPE PLANTING
& SITE DEVELOPMENT

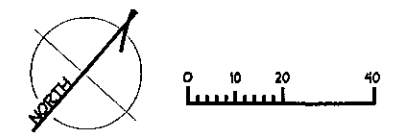


T.I.P. #
 WBS # **3703.3.19**
 FED I.D. #
 SHEET NO: **LP4** TOTAL SHEET NO: **12**



NOTES

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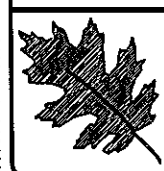
DAYLILIES

HML	Hemerocallis 'Mauna Loa'	Mauna Loa Daylily
HMT	Hemerocallis 'Mary Todd'	Mary Todd Daylily
HSC	Hemerocallis 'Strawberry candy'	Strawberry Candy Daylily

OTHER PERENNIALS

DC	Dalopserma cooperi	Hardy Ice Plant
EP	Echinacea purpurea 'Kim's Knee High'	Kim's Knee High Coneflower
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RE	Rudbeckia fulgida 'Early Bird Gold'	Early Bird Gold Black Eyed Susan
SAJ	Sedum 'Autumn Joy'	Autumn Joy Sedum
VH	Verbena 'Homestead Purple'	Homestead Purple Verbena

*****STIMES*****
*****SERIALS*****



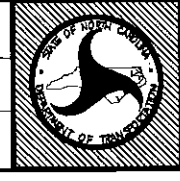
NCDOT - ROADSIDE ENVIRONMENTAL UNIT
LANDSCAPE DESIGN & DEVELOPMENT
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MAIN ST LANDSCAPE IMPROVEMENTS
SHALLOTTE, NC
WBS # 3703.3.19

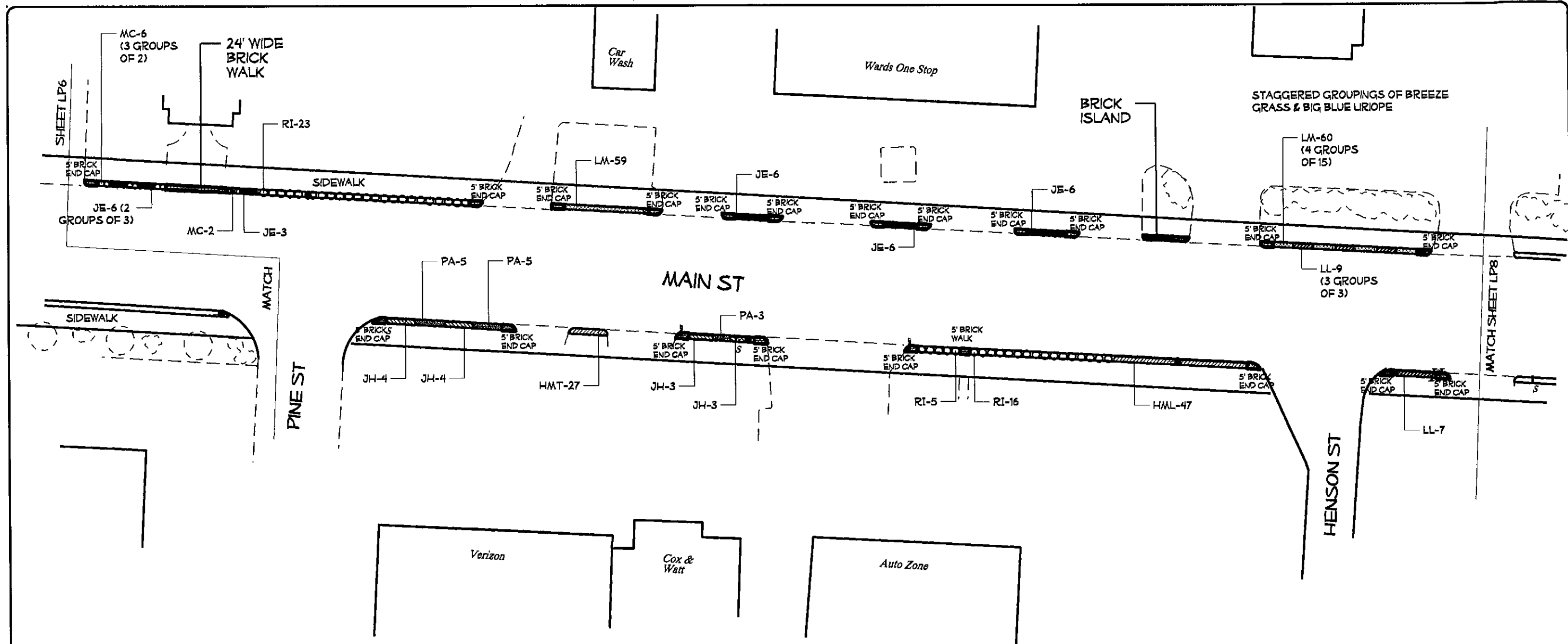
R. Kopetsky

PREL DESIGN DATE: NOV/ 2012
 CHECKED BY & DATE:
 FINAL DESIGN DATE:

LANDSCAPE PLANTING
& SITE DEVELOPMENT



T.I.P. #
WBS # 3703.3.19
 FED I.D. #
 SHEET NO: **LP5** TOTAL SHEET NO: **12**



SHRUBS

JH	Juniperus horizontalis 'Bar Harbor'	Bar Harbor Juniper
NG	Nandina domestica 'Gulf Stream'	Gulf Stream Nandina
RI	Raphiolepis indica 'Eleanor Tabor'	Eleanor Tabor Indian Hawthorne
RR	Rosa x 'Radiko'	Red Dbl. Knockout Rose

NATIVE GRASSES

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DAYLILIES

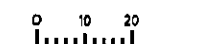
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 11/21/2012 10:58 AM



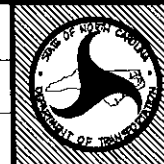
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MAIN ST LANDSCAPE IMPROVEMENTS
SHALLOTTE, NC
WBS # 3703.3.19

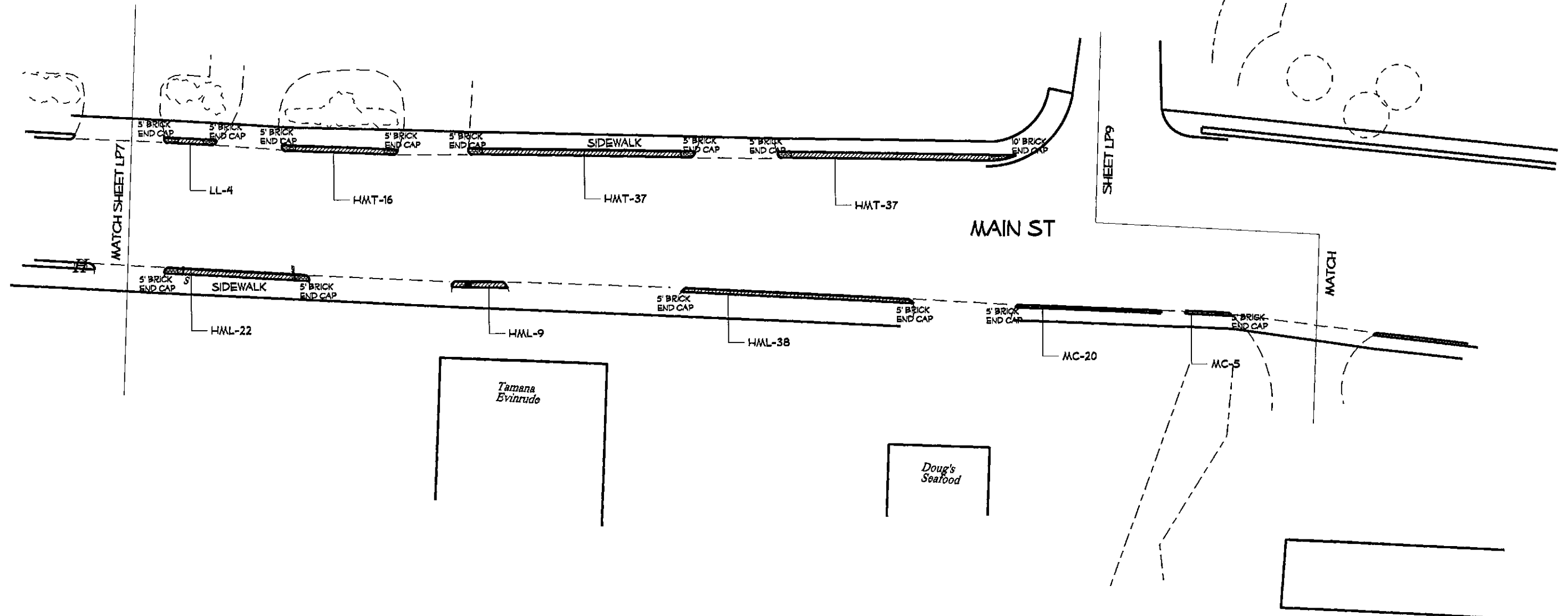
R. Kopetsky

PREL DESIGN DATE:	NOV/ 2012
CHECKED BY & DATE:	
FINAL DESIGN DATE:	

LANDSCAPE PLANTING
& SITE DEVELOPMENT



T.I.P. #	
WBS #	3703.3.19
F&D I.D. #	
SHEET NO.	TOTAL SHEET NO.
LP7	12



SHRUBS

JH	Juniperus horizontalis 'Bar Harbor'	Bar Harbor Juniper
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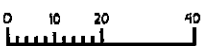
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NCDOT - ROADSIDE ENVIRONMENTAL UNIT
 LANDSCAPE DESIGN & DEVELOPMENT
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[HTTP://WWW.NCDOT.ORG/DOH/OPERATIONS/DP/CHIEF_ENG/ROADSIDE/](http://www.ncdot.org/doh/operations/dp/CHIEF_ENG/ROADSIDE/)

MAIN ST LANDSCAPE IMPROVEMENTS
 SHALLOTTE, NC
 WBS # 3703.3.19

R. Kopetsky

SHEET DESCRIPTION:	PREL DESIGN DATE:	NOV/ 2012	LANDSCAPE PLANTING
	CHECKED BY & DATE:		& SITE DEVELOPMENT
	FINAL DESIGN DATE:		
	T.I.P. #	WBS #	3703.3.19
		FED I.D. #	
	SHEET NO:	TOTAL SHEET NO:	
	LP8	12	

