NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PROPOSED ROADSIDE ENVIRONMENTAL SUSTAINABLE DESIGN & AESTHETICS PROJECT

US 1 GATEWAY ENHANCEMENT & AESTHETICS
SUSTAINABLE LANDSCAPE DESIGN & DEVELOPMENT
SOUTHERN PINES, NC

PROJECT: WBS 3708.3.27

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
Large Deciduous Tree
Evergreen Tree
Small or Flowering Tree
Shrubs
Planting Bed

Summary of Quantities

QTY.	UNIT	KEY	BOTANICAL NAME	COMMON NAME	FURNISH	REMARKS
			Small Flowering Trees			
11	EA	MV	*Magnolia virginiana*	Sweet Bay Magnolia	#5 Cont., 4-7', 1 1/4" Caliper, STD 1.7	As Shown
18	EA	CV	*Chionanthus virginicus*	Fringetree	#5 Cont., 4-7', 1 1/4" Caliper, STD 1.7	As Shown
65	EA	CF	*Cornus florida 'Cherokee Princess'*	Dogwood	#5 Cont., 4-7', 1 1/4" Caliper, STD 1.7	As Shown
			Small Flowering Trees(LARGE)			
7	EA	MVL	*Magnolia virginiana*	Sweet Bay Magnolia	8-10', B&B, STD 1.2.3, Specimen-Matching	As Shown
20	EA	CVL	*Chionanthus virginicus*	Fringetree	8-10', B&B, STD 1.2.3, Specimen-Matching	As Shown
4	EA	LML	*Lagerstroemia indica 'Muskogee'*	Muskogee Crape Myrtle	8-10', B&B, STD 1.2.3, Specimen-Matching	As Shown
53	EA	CFL	*Cornus florida 'Cherokee Princess'*	Dogwood	8-10', B&B, STD 1.2.3, Specimen-Matching	As Shown
			Small Evergreen Trees			
2	EA	JV	*Juniperus virginiana*	Eastern Red Cedar	#5 Cont., 4-6', STD 1.7	As Shown
2	EA	PP	*Pinus palustris*	Longleaf Pine	#5 Cont., 4-6', STD 1.7	As Shown
			Evergreen Trees (LARGE)			
4	EA	CAL	*Cupressus arizonica 'Carolina Sapphire'*	Carolina Sapphire Cypress	2 1/2-3" Cal., 10-12', B&B, Specimen, STD 3.1	As Shown
13	EA	JVL	*Juniperus virginiana*	Eastern Red Cedar	2 1/2-3" Cal., 10-12', B&B, Specimen, STD 3.1	As Shown
35	EA	PPL	*Pinus palustris*	Longleaf Pine	2 1/2-3" Cal., 10-12', B&B, Specimen, STD 3.1	As Shown
12	EA	IOL	*Ilex opaca*	American Holly	2 1/2-3" Cal., 10-12', B&B, Specimen, STD 3.1	As Shown
6	EA	MGL	*Magnolia grandiflora 'Bracken's Brown Beauty'*	Bracken's Brown Beauty Southern Magnolia	2 1/2-3" Cal., 10-12', B&B, Specimen, STD 3.1	As Shown
			Deciduous Trees (LARGE)			
21	EA	TDL	*Taxodium Distichum*	Bald Cypress	2 1/2-3" Cal., 10-12', B&B, Specimen	As Shown
			Native Grass and Perennial Varieties			
1190	EA	PV	*Panicum virgatum 'Heavy Metal'*	Heavy Metal Switchgrass	#1 Cont	5' O.C.
4880	EA	ND	*Narcissus 'Dutch Master'*	Dutch Master Daffodiol	DN II	24" O.C.
8475	EA	HB	*Hemerocallis 'Buttered Popcorn'*	Buttered Popcorn Daylily	#1 Cont.	2' O.C.
			Descriptions			
1250	CY	1670	**Mulch for Planting**			
80	MG	1670	**Water for Planting**			
8,000	SY	1670	**Post Emergence Plant Bed Herbicide Treatment**			
8,000	SY	1670	**Pre Emergence Plant Bed Herbicide Treatment**			
5	ACRE	1660	**Seeding and Mulching**			
5	EA	1650	**Selective Tree Reomoval 15"**			
2	ACRE	1651	**Selective Undergrowth Removal**			

T.I.P. #	FEDERAL PROJECT W.B.S. #	SHEET #	SHEET # TOTAL
	3708.3.27	L1	15
FED. PROJ. #	DESCRIPTION		DIVISION
	Gateway Enhancement		8

GRAPHIC SCALES

50 25 0 50 100

50 SCALE

INDEX OF (L) SHEETS:

L1 - TITLE SHEET
L2 - PLANTING DETAILS
L3 - SHEET LAYOUT PLAN & PLANT SYMBOLOGY

SIDE SLOPE ENHANCEMENTS:
L5 - L10 Enhancement Plans

GATEWAY ENHANCEMENTS:
L11A - L11E Enhancement Plans

Designed By: Jeff Lackey 11/2012

REVISIONS

DATE	DESCRIPTION
9-2013	Jeff Lackey-Complete Revision

STATE OF
NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

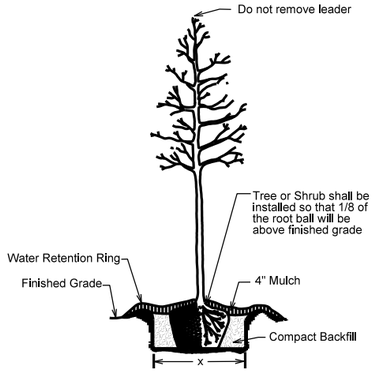
LOCATION: US 1 Corridor Enhancements & Aesthetics, Southern Pines - North Carolina

TYPE of WORK: Gateway Enhancement Design & Development

COUNTY: MOORE COUNTY

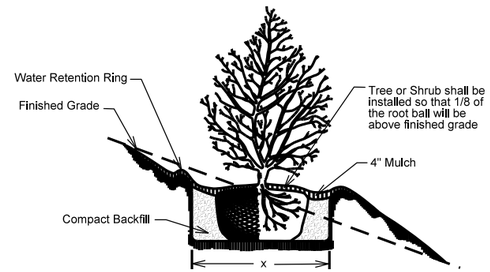
2012 STANDARD SPECIFICATIONS

PREPARED IN THE OFFICE OF:
NCDOT- ROADSIDE ENVIRONMENTAL UNIT
DESIGN & DEVELOPMENT SECTION
1557 MAIL SERVICE CENTER
RALEIGH NC 27699 919-733-2920



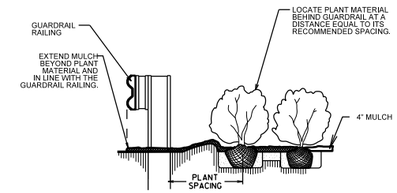
TREE OR SHRUB PLANTING DETAIL

(LEVEL GROUND)



TREE OR SHRUB PLANTING DETAIL

(SLOPING GROUND)



GUARDRAIL MULCHING DETAIL

* Detail to be used when approved by the Engineer.

NOTES:

SCHEDULE FOR PLANT HOLE SIZE:
CONTAINER OR ROOT BALL SIZE

X = 2 TIMES THE DIAMETER OF THE CONTAINER OR THE ROOT BALL DIAMETER

FERTILIZER SHALL BE APPLIED AT TIME OF PLANTING.. FERTILIZER SHALL BE A SLOW RELEASE PELLET OR TABLET. FORMULATION SHALL BE APPROVED BY ENGINEER IN THE FIELD.

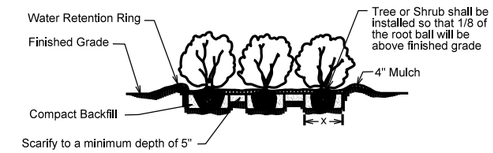
RATES SHALL BE PER MANUFACTURERS RECOMMENDATIONS AND APPROVED BY THE ENGINEER IN THE FIELD. THOUROUGHLY MIX WITH TOPSOIL , BACKFILL OR SCARIFIED SOIL.

REMOVE BURLAP FROM TOP OF BALL BEFORE BACKFILLING AROUND BALL IS COMPLETE

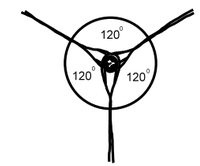
SEE STANDARD SPECIFICATIONS FOR PLANT BED HERBICIDE TREATMENT

When mulched bed is adjacent to guard rail run mulch to front edge of guard rail - see detail

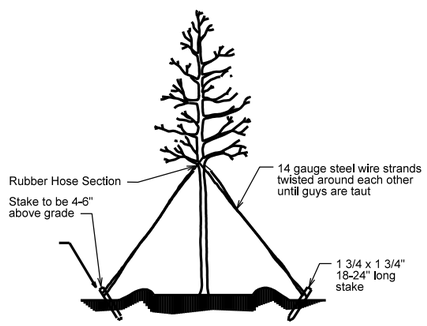
PRUNING CUTS



Shrub Bed Planting Detail



GUY SPACING DETAIL



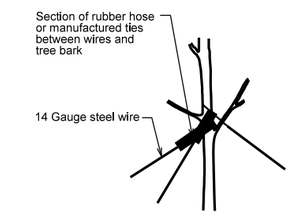
TREE GUYING DETAIL

(FOR TREES 10' OR LARGER)

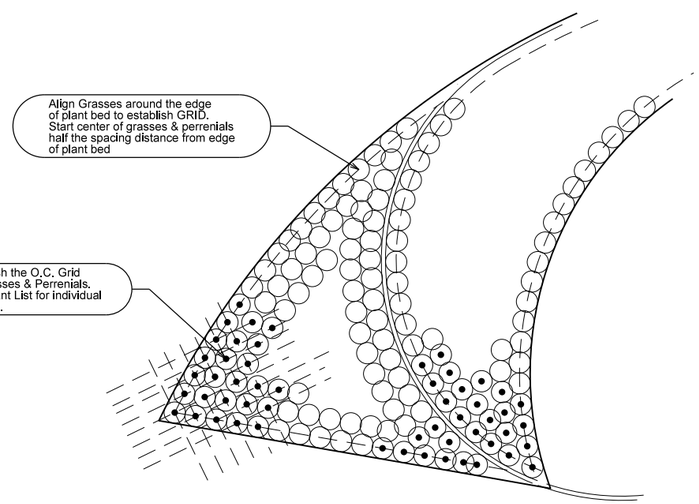
* Utilize guying detail only if requested by the Engineer.

*Plants may be planted before or after mulching operation

Groundcover Planting Detail

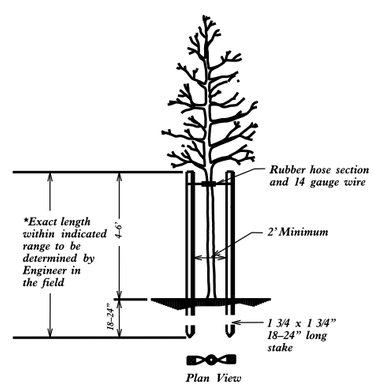


GUY TYING DETAIL



Typical Plan View @ Layout for Native Grass & Perrenial Plantings

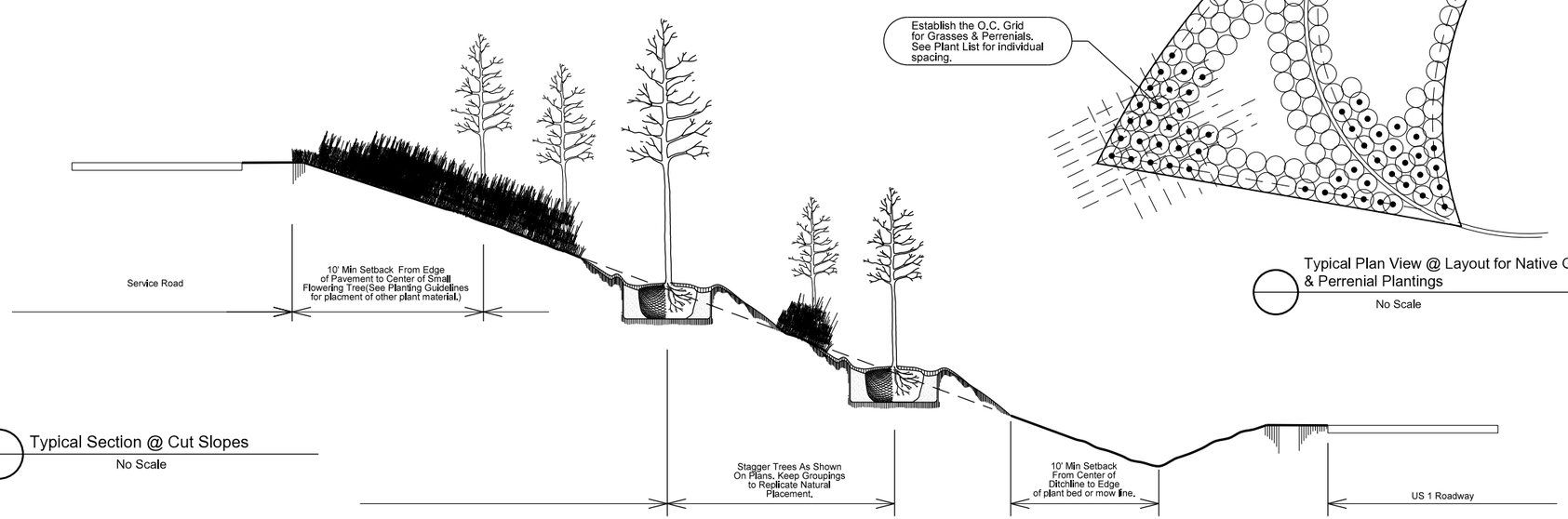
No Scale



STAKING DETAIL

(FOR TREES 6' TO 10')

* Utilize staking detail only if requested by the Engineer.



Typical Section @ Cut Slopes

No Scale

SHEET NO.
L 2
PROJECT REF. NO.

US 1 Corridor Enhancements & Aesthetics
Southern Pines, North Carolina

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

N.C. Department of Transportation
Roadside Environmental Unit - Design Section
Planting Details

L2

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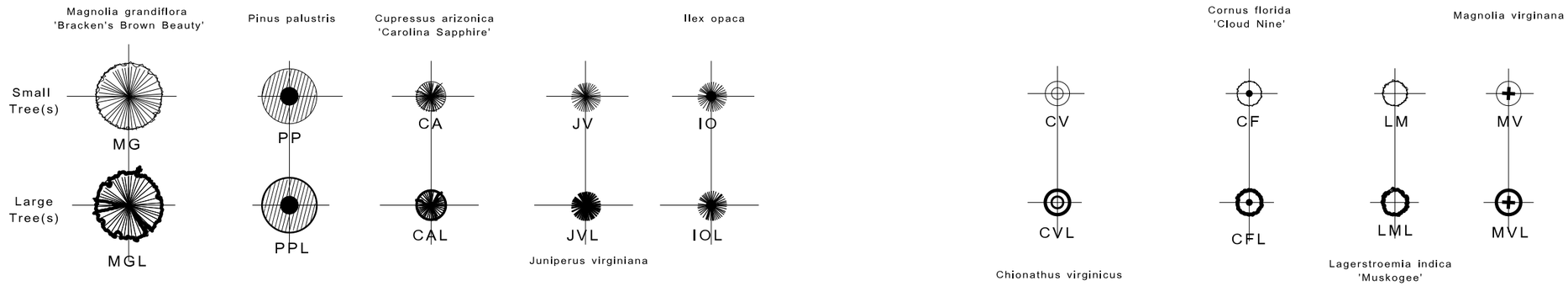
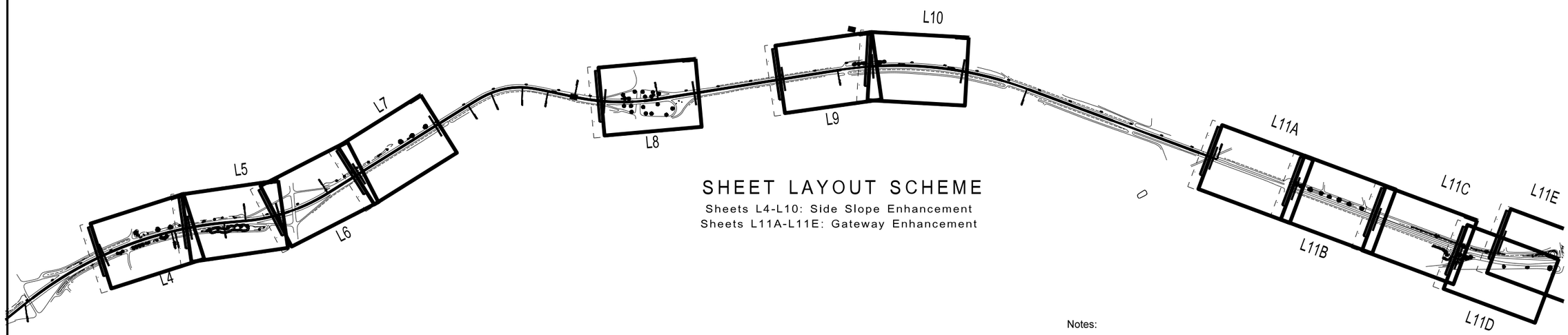
07/09/97

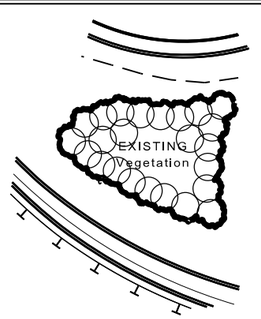
PLANT SYMBOLOGY
(Evergreen & Flowering Trees)

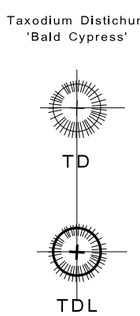




SHEET LAYOUT SCHEME
Sheets L4-L10: Side Slope Enhancement
Sheets L11A-L11E: Gateway Enhancement

PLANT SYMBOLOGY
(Deciduous Trees)





Small Deciduous Tree(s)

Large Deciduous Tree(s)

Notes:

- Contractor Shall Consult with Engineers Prior to any field adjustments. Follow plans as close as possible. Bed layouts should be adjusted to incorporate existing traffic signage, where necessary, and any sight distance issues that may develop -especially at the interchanges & medians. Ensure caution is maintained during stakeout to maintain clear site lines. Details may be adjusted to accommodate site. Spacing may be decreased to fit material at specified locations. Consult with Architect to ensure proper development.

-Contractor shall utilize all NCDOT Standard Specifications for all line items listed. These shall be utilized in conjunction with the Special Provisions and the Guidelines for Planting within Highway Right-of-Way. Consult with Engineer in the field to maintain accuracy.

-Selective Undergrowth Removal - shall be utilized at all bed areas to re-shape the existing beds to match
the proposed and to remove material. SEE SPECS 1651 Discuss layout with engineer in the field to ensure
propoer palcement -SEE PLANS.

Note-the seeding and mulching shall be utilized at newly established beds where existing beds have been modified and disturbed. Contractor shall be responsible for re-grading areas to ensure proper drainage and clean mowing lanes-Consult with Architect or Engineer in the field. The quantities have been established based on these developments. Those areas where trees are to be incorporated shall be field staked and adjusted by the engineer in the field initially and maintained as directed by the NCDOT Specs. Consult with Architect & Engineer in the field. All Native Grass Plantings shall be installed as a continuous mulched bed. The individual trees shall be treated with Post
Emergence and mulched individually as shown on the plans. Maintain 3' DIA labeled diameter mulch rings.

-Trees to be field staked by the ARCHITECT. Consult with Engineer for more detailed information ensure the plants are located according to NCDOT Standard Specifications.

SHEET NO.
L3
PROJECT REF. NO.

US 1 Corridor Enhancements & Aesthetics
Southern Pines, North Carolina

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

N.C. Department of Transportation
Roadside Environmental Unit - Design Section
Sheet Layout Plan & Plant Symbology

L3

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PROJECT REFERENCE NO.	SHEET NO.
	5 (L4)

REVISIONS

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
	6 (L5)

REVISIONS

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
	7 (L6)

REVISIONS

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REVISIONS

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PROJECT REFERENCE NO.	SHEET NO.
	11 (L8)

REVISIONS

8/17/99

$$$$TIME$$$$
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$$$$COMP$$$$

PROJECT REFERENCE NO.	SHEET NO.
	13 (L9)

REVISIONS

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
	14 (L10)

REVISIONS

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
	17 (L11A)

REVISIONS

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
	17 (L11B)

REVISIONS

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
	17 (L11C)

REVISIONS

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SYSTIME$$$$
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PROJECT REFERENCE NO.	SHEET NO.
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8/17/99

REVISIONS

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LAYOUT$$$$$$$$
PCPLOTDRV$$$$$$$$

PROJECT REFERENCE NO.	SHEET NO.
	17 (L11E)

REVISIONS

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