GENERAL NOTES:

1. UNDERGROUND UTILITIES EXIST ON SITE. THE LOCATION OF ALL SURFACE AND UNDERGROUND UTILITIES , RIGHT-OF-WAYS, EASEMENTS, ETC., SHALL BE VERIFIED BY THE SUBCONTRACTOR. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES FROM DAMAGE DURING CONSTRUCTION AND TO REPAIR ANY DAMAGE WHICH SHOULD OCCUR TO THE SATISFACTION OF THE CM. COMMENCEMENT OF LANDSCAPE INSTALLATION INDICATES ACCEPTANCE OF EXISTING CONDITIONS.
2. EXAMINE SUBGRADE UPON WHICH WORK IS TO BE PERFORMED. VERIFY SUBGRADE ELEVATIONS, OBSERVE CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED, AND PROVIDE PERCOLATION TESTS AND ALL OTHER TESTS NECESSARY TO ASCERTAIN THAT ADEQUATE GROWING CONDITIONS WILL BE PROVIDED FOR PLANTS. IF PERCOLATION TESTS OR SUBSOIL CONDITIONS INDICATE RETENTION OF WATER IN PLANTING AREAS, AS SHOWN BY SEEPAGE OR OTHER EVIDENCE INDICATING PRESENCE OF UNDERGROUND WATER, NOTIFY CM IN WRITING OF THIS FACT OR OTHER UNSATISFACTORY CONDITIONS BEFORE BACKFILLING. A CHANGE ORDER MAY BE ISSUED TO DIRECT INSTALLATION OF DRAIN TILE OR OTHER MEASURES BEYOND DRAINAGE REQUIREMENTS INDICATED. DO NOT PROCEED WITH THE WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. COMMENCEMENT OF PLANTING WORK INDICATES THAT SITE CONDITIONS HAVE BEEN ACCEPTED "AS IS".
3. ACTUAL AS-BUILT SITE CONDITIONS MAY VARY FROM THIS PLAN. PLANT AND MATERIAL QUANTITIES AS SHOWN ON THE PLAN ARE FOR UNIFORM COMPARISON AND ESTIMATE PURPOSES ONLY. NOTIFY CM OF ALL SITE CONDITIONS WHICH WILL AFFECT PLANT QUANTITIES REQUIRED AND/OR THEIR LOCATIONS.
4. PROTECT EXISTING GRASS AREAS, TREES, AND OTHER VEGETATION TO REMAIN.
5. DAMAGE BY SUBCONTRACTOR TO UNDISTURBED AREAS OUTSIDE THE LIMITS OF CONSTRUCTION SHALL BE REPAIRED BY SUBCONTRACTOR TO THE SATISFACTION OF THE CM.
6. REFERENCE DRAWINGS C3.49.01 AND C3.49.02 FOR SITE GRADING AND DRAINAGE INFORMATION. THESE DRAWINGS ARE AVAILABLE FROM THE CM.
7. THE QUANTITIES INDICATED ON THE DRAWINGS ARE PROVIDED FOR THE BENEFIT OF THE SUBCONTRACTOR, BUT SHOULD NOT BE ASSUMED TO ALWAYS BE CORRECT. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN QUANTITY CALCULATIONS AND THE LIABILITY WHICH PERTAINS TO THOSE QUANTITIES AND ANY RELATED CONTRACT DOCUMENTS AND/OR PRICE QUOTATIONS. SUBCONTRACTOR IS RESPONSIBLE FOR PROVIDING PLANT QUANTITIES REQUIRED TO COVER SPECIFIED AREAS AT THE DESIGNATED SPACING.
8. CONTRACTOR IS RESPONSIBLE FOR CONDUCTING SITE INSPECTION PRIOR TO BIDDING WORK, TO DETERMINE SITE CONDITIONS AND AREAS TO BE SEEDED AND PLANTED. SUBMISSION OF BID INDICATES CONTRACTOR HAS VERIFIED SITE CONDITIONS AND PLANT MATERIAL QUANTITIES.

PLANTING

1. THE LOCATION OF ALL TREES AND SHRUBS SHOWN ON THE PLAN AREAS SHALL BE STAKED/FLAGGED BY THE SUBCONTRACTOR AND APPROVED BY THE CM BEFORE THE DIGGING OF PITS. PLANTING SHALL BE LOCATED WHERE SHOWN ON THE DRAWINGS OR WHERE FIELD LOCATED BY CM. LIMITS OF SHRUB AND GROUND COVER MASSES SHALL BE MARKED IN THE FIELD FOR CM APPROVAL PRIOR TO INSTALLATION
2. PROVIDE ONLY PLANTS THAT ARE FREE FROM DISEASES AND PESTS, AND THAT COMPLY WITH THE LATEST EDITION OF PUBLICATION ANSI Z60.1, AMERICAN STANDARDS FOR NURSERY STOCK", BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
3. DO NOT MAKE SUBSTITUTIONS REGARDING PLANT SIZES OR SPECIES WITHOUT WRITTEN PERMISSION FROM THE CM.
4. REMOVE ALL STRINGS AND OTHER TIES FROM TREES.
5. FERTILIZE ALL PLANTS WITH 16-16-16 SLOW RELEASE FERTILIZER AT THE RATE OF:
   3 POUNDS PER CUBIC YARD OF SOIL MIX.
   3 POUNDS PER 100 SF OF BED FOR SHRUBS AND GROUND COVER
6. PLANTS DESIGNATED "B&B" IN THE PLANT LIST SHALL BE BALLED AND BURLAPPED. THEY SHALL BE DUG WITH FIRM, NATURAL BALLS OF EARTH OF SUFFICIENT DIAMETER AND DEPTH TO ENCOMPASS THE FIBROUS AND FEEDING ROOT SYSTEM NECESSARY FOR FULL RECOVERY OF THE PLANT. BALLS SHALL BE FIRMLY WRAPPED WITH BURLAP OR SIMILAR MATERIAL AND BOUND WITH TWINE OR CORD.
7. ONLY "HEMP" BURLAP AND TWINE SHALL BE USED. NO TREATED OR PRESERVED BURLAP OR TWINE IS ALLOWED. ALL HEMP TWINE ATTACHED TO THE TREE TRUNK IS TO BE REMOVED AFTER PLANTING. AT A MINIMUM THE TOP ONE-THIRD OF THE ROOT BALL IS TO HAVE ALL BURLAP AND TWINE REMOVED.
8. THE BALLS OF "B&B" PLANTS WHICH CANNOT BE PLANTED IMMEDIATELY ON DELIVERY SHALL BE COVERED WITH MOIST SOIL OR MULCH, OR OTHER PROTECTION FROM DRYING WINDS AND SUN. ALL PLANTS SHALL BE WATERED BY SUBCONTRACTOR AS NECESSARY UNTIL FINAL ACCEPTANCE.
9. NO PLANT SHALL BE BOUND WITH WIRE OR ROPE AT ANY TIME SO AS TO DAMAGE THE BARK OR BREAK OR DISFIGURE THE BRANCHES.
10. TREE BALLS SHALL HAVE A DIAMETER IN FEET EQUAL TO 10" FOR EACH CALIPER INCH OF THE TREE.
11. ALL PLANTS SHALL BE HANDLED SO THAT ROOTS ARE ADEQUATELY PROTECTED AT ALL TIMES. DURING SHIPMENT, THE ENTIRE PLANT SHALL BE PROTECTED BY TARPAULINS OR OTHER SUITABLE COVERING. PLANT MATERIAL SUFFERING FROM WIND BURN OR OTHER WIND DAMAGE IS NOT ACCEPTABLE.
12. NO PLANT SHALL BE BOUND WITH ROPE OR WIRE IN A MANNER THAT DAMAGES THE BARK, BREAKS BRANCHES, OR DESTROYS ITS NATURAL SHAPE. NO PLANT MATERIAL REQUIRED TO BE BALLED AND BURLAPPED SHALL BE ACCEPTED IF THE BALL IS CRACKED OR BROKEN EITHER BEFORE OR DURING THE PROCESS OF PLANTING, OR WHEN REQUIRED BURLAP, STAVES, ROPES OR PLATFORM HAVE BEEN REMOVED.
13. PRIOR TO THE START OF WORK, THE SUBCONTRACTOR SHALL ASCERTAIN THE LOCATION OF ALL SURFACE AND UNDERGROUND UTILITIES, ETC., AND SHALL TAKE PROPER PRECAUTIONS TO PREVENT DAMAGE TO SUCH IMPROVEMENTS. IN THE EVENT THEY ARE UNCOVERED, THE SUBCONTRACTOR SHALL PROMPTLY NOTIFY THE CM. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES FROM DAMAGE DURING CONSTRUCTION AND TO REPAIR ANY DAMAGE WHICH SHOULD OCCUR TO THE SATISFACTION OF THE OWNER.
14. ANY SERIES OF TREES OR SHRUBS TO BE PLACED IN A PARTICULAR ARRANGEMENT WILL BE FIELD CHECKED FOR ACCURACY BY THE SUBCONTRACTOR. ANY PLANTS INCORRECTLY ARRANGED SHALL BE RELOCATED WITH THE CM'S APPROVAL.
15. PRE-EMERGENT HERBICIDE (TREFLAN OR EQUIVALENT) SHALL BE APPLIED (ACCORDING TO MANUFACTURER'S INSTRUCTIONS) TO ALL PLANT BEDS PRIOR TO PLANTING FOR NOXIOUS WEED CONTROL.
16. ALL PLANTING BEDS SHALL TO RECEIVE A MINIMUM 3" DEEP SHREDDED HARDWOOD MULCH LAYER.
17. SUBCONTRACTOR IS RESPONSIBLE FOR THE WATERING AND MAINTENANCE OF ALL INSTALLED PLANT MATERIAL UNTIL ACCEPTANCE BY CM.
18. ALL PLANT MATERIAL IS TO BE GUARANTEED FOR ONE (1) YEAR. GUARANTEE PERIOD STARTS FROM DATE OF SUBSTANTIAL COMPLETION ISSUED BY CM.
19. DIMENSIONS FOR HEIGHTS, SPREAD, AND TRUNK SPECIFIED ON THE PLANT SCHEDULES ARE A GENERAL GUIDE FOR THE MINIMUM DESIRED SIZE OF EACH PLANT. AT A MINIMUM, ALL PLANT MATERIALS SHALL COMPLY WITH THE LATEST EDITION OF PUBLICATION ANSI Z60.1, AND AMERICAN STANDARDS FOR NURSERY STOCK BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
20. SHRUB AND GROUND COVER SPACING PATTERN SHALL BE AS INDICATED ON DETAIL 6, DRAWING L5.49.01, USING SPACING DIMENSION AS SHOWN ON PLANS AND SCHEDULE.
21. SEE L5.49.01 FOR LANDSCAPING DETAILS AND L9.49.01 FOR PLANT SCHEDULES.
22. WHERE STEEL EDGING INTERSECTS TREE TRUNK OR ROOT BALL, STOP OR BREAK EDGING WITHIN ROOT BALL AREA AND CONTINUE ON OTHER SIDE.

LEGEND

PROPOSED	EXISTING	DESCRIPTION
		STEEL EDGING
		CURBS
		BUILDING
		BUILDING OVERHANG OR CANOPY
		WALKS
		SAND BLASTED BAND IN WALK
		WALLS
		WALLS W/ HANDRAILS
		BENCHES
		TRASH RECEPTACLES
		SPIRAL STAIRCASE
		LIMIT OF CONSTRUCTION
		BOLLARD LIGHT
		RECESSED LIGHT
		RIVER COBBLE MULCH

NOTE:
ADDITIONAL SYMBOLOGY FOR PLANT MATERIAL IS PROVIDED IN THE PLANT SCHEDULES ON L9.49.01.

ABBREVIATION LIST

ABBREVIATION	DESCRIPTION
@	AT
ANSI	AMERICAN NATIONAL STANDARD INSTITUTION
B&B	BALLED AND BURLAPPED
CAL	CALIPER
CM	CONSTRUCTION MANAGER
DIA	DIAMETER
DRWG	DRAWING
ETC	ET CETERA
EL	ELEVATION
GA	GAUGE
GALV	GALVANIZED
HT	HEIGHT
MAX	MAXIMUM
MIN	MINIMUM
NO.	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OZ	OUNCE
REF	REFERENCE
SF	SQUARE FOOT
SPR	SPREAD
TYP	TYPICAL

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NUMBER OF SECTION OR DETAIL
DRAWING ON WHICH SECTION OR DETAIL IS SHOWN OR TAKEN
SECTION AND DETAIL KEY

THIS DOCUMENT CONTROLLED BY
CHANGE CONTROL SYSTEM _____
ENGINEERING PROCEDURE _____

REV	CHANGE TYPE	CHANGE CONTROL SYSTEM	CHANGE REQUEST NUMBER	DESCRIPTION	DSN	CHK	DEPT	DATE	PE	DATE	PJ	DATE	REQ	DATE	UTB	DATE	RPE	RPE NO	DATE	ST	CV	EC	EE	EM	IE	M	PD	SE	AR
0				CERTIFIED FOR CONSTRUCTION - 12/9/2002	JGP	SAF											JGP	419	12/9	RZ	AW	BWJ	AK	IM	DM	–	BWJ	–	TW

REVISION OR ISSUE PURPOSE — REVISION APPROVALS — SQUAD CHECK

RPE: JEFFREY G. PFEIFER, REGISTERED ENGINEER, AMERICAN TURNKEY PROJECTS, TENNESSEE NO. 100800, LANDSCAPE ARCHITECT
REV. 0 DATE 12/09/02

DSGN	J. PFEIFER	12/09/02
DRW	K. LYNCH	12/09/02
CHKR	S. FRITTS	12/09/02
SECT		
DEPT		
PE		1/20/03
PJ		1/23/03
REQ		12/9/02
UTB		

DRAWING APPROVALS

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PROJECT NAME:
CENTER FOR NANOPHASE MATERIALS SCIENCES

LANDSCAPING NOTES AND LEGEND

1	48	49	50	PLANT	BLDG	FL	SH.	OF	TYPE	CLASS
3	L	X	X	8	8610	X	1	1	G	U
51		52		53	A/E DRAWING NUMBER:					REV
NC		NA		IN						0

DRAWING NUMBER: L0.49.02

$DATE$ $TIME$ $FILE$