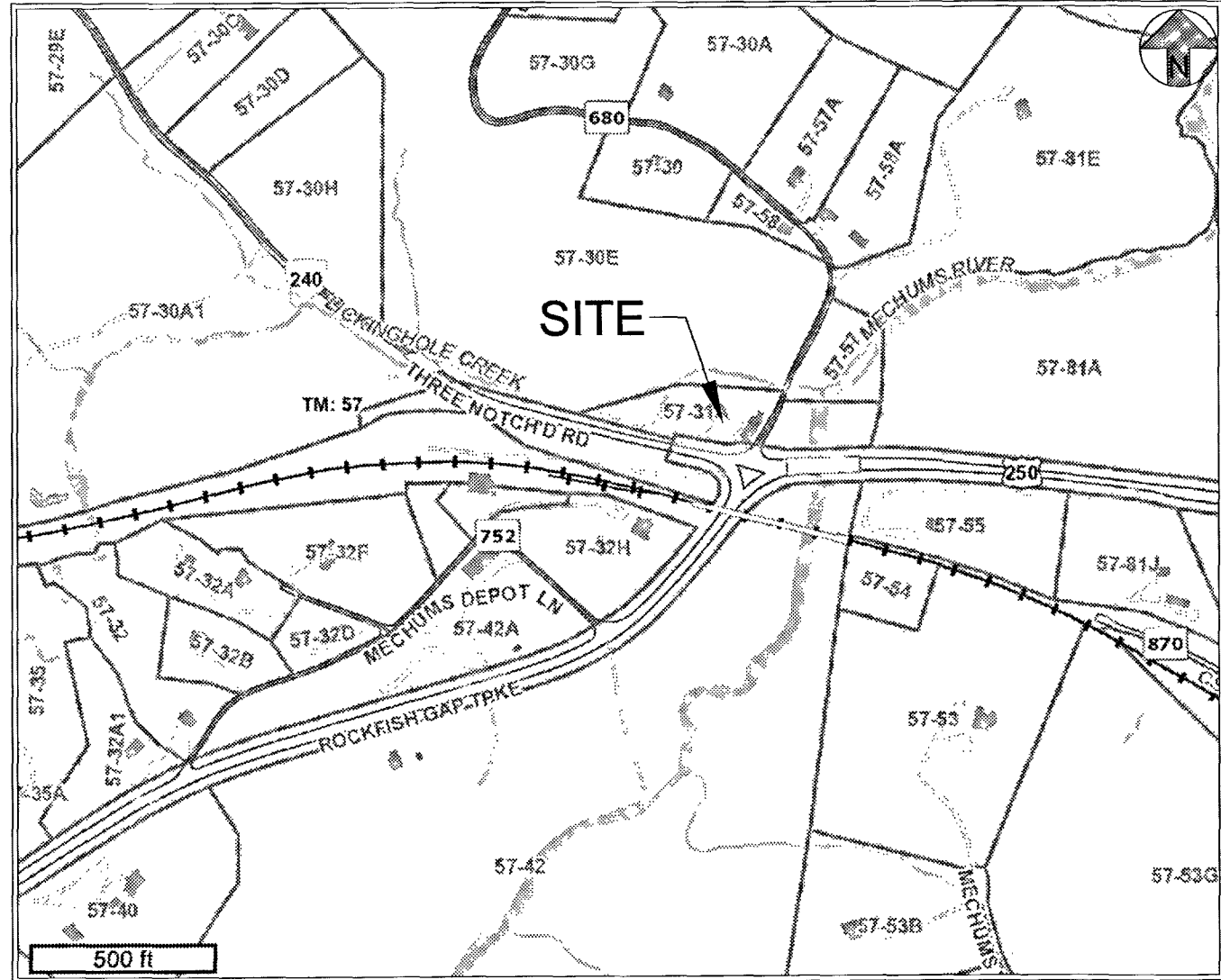


VICINITY MAP: 1" = 500'



MECHUM'S TRESTLE

ALBEMARLE COUNTY, VIRGINIA

FINAL SITE PLAN/ARB SUBMITTAL (SDP #2015-08) FEBRUARY 17, 2015

SHEET INDEX:

SHEET	EXISTING CONDITIONS/DEMOLITION	LAYOUT PLAN
SHEET 2		
SHEET 3		
SHEET 4		
SHEET 5		
SHEET 6		
SHEET 7		
SHEET 8		
SHEET 9		
SHEET 10		

APPROVALS	DATE
DEPARTMENT OF COMMUNITY DEVELOPMENT	
PLANNER/ZONING	4/12/16
ENGINEER	3/22/16
INSPECTIONS	2/24/16
ARB	2/24/16
DEPARTMENT OF FIRE RESCUE	4/19/16
ALBEMARLE COUNTY SERVICE AUTHORITY	4/19/16
VIRGINIA DEPARTMENT OF TRANSPORTATION	4/12/16
HEALTH DEPARTMENT	n/a

GENERAL CONSTRUCTION NOTES

PERFORMANCE AND QUALITATIVE NOTES AND STANDARDS

- ALL SITE WORK AND ALL IMPROVEMENTS SHOWN ON THESE PLANS ARE REQUIRED TO BE PERFORMED AND / OR INSTALLED, UNLESS SPECIFICALLY ITEMIZED AS "NOT INCLUDED IN CONTRACT" IN THE OWNER / CONTRACTOR AGREEMENT, THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING AND / OR INSTALLING ALL SITE WORK AND IMPROVEMENTS SHOWN ON THESE DRAWINGS, INCLUDING ANCILLARY EFFORTS AND WORK NORMALLY ASSOCIATED WITH SPECIFIED IMPROVEMENTS.
- CALL MISS UTILITY (1-800-552-7001) PRIOR TO ANY LAND DISTURBING ACTIVITY. UTILITIES SHOWN ON THESE PLANS ARE REPRESENTATIONS OF DATA MADE AVAILABLE TO THE ENGINEER FROM VARIOUS SOURCES AND HAVE NOT BEEN FIELD CONFIRMED. EXPLORATORY EXCAVATIONS MAY BE NECESSARY TO CONFIRM THE EXISTENCE OR NON-EXISTENCE OF CERTAIN UNDERGROUND FEATURES.
- THE CONTRACTOR SHALL COORDINATE WITH ALL LOCAL AUTHORITIES PRIOR TO COMMENCING THE WORK AND SCHEDULE / ATTEND ALL REQUIRED PRE-CONSTRUCTION MEETINGS. THE CONTRACTOR SHALL CONFIRM THAT ALL BONDS HAVE BEEN POSTED AND PULL ALL PERMITS. THE CONTRACTOR SHALL MAINTAIN THE PERMITS AND AN APPROVED SET OF THESE WORKING DRAWINGS AND PROJECT SPECIFICATIONS ON-SITE AT ALL TIMES.
- THE CONTRACTOR SHALL COORDINATE WITH THE OTHER TRADES ON-SITE.
- UNEXPECTED SITE CONDITIONS MAY ARISE DURING CONSTRUCTION THAT REQUIRE A DEVIATION FROM THESE PLANS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONDITIONS THAT CONFLICT WITH THE PROPER EXECUTION OF THESE PLANS. THE ENGINEER SHALL DETERMINE THE NATURE AND DEGREE OF CHANGES NECESSARY, AND THE CONTRACTOR SHALL PROVIDE A COST FOR SAID CHANGES. NO CHANGES ARE TO BE MADE WITHOUT THE WRITTEN CONSENT OF THE ENGINEER.
- CONTACT ENGINEER IF THERE ARE QUESTIONS REGARDING THE LAYOUT OF THE WORK. BUILDING INFORMATION REFLECTED ON THESE DRAWINGS MAY NOT REPRESENT FINAL ARCHITECTURAL DIMENSIONS. PRIOR TO STAKEOUT OF ANY STRUCTURES, SURVEYOR AND / OR CONTRACTOR SHALL OBTAIN FINAL ARCHITECTURAL DRAWINGS AND CONSULT WITH ENGINEER REGARDING EXACT PLACEMENT OF BUILDINGS ON SITE.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS AND FEATURES REPRESENTED ON THESE PLANS TO THE BEST OF HIS / HER ABILITY. THE CONTRACTOR SHALL ALSO VERIFY, BY STAKEOUT, THE RELATIONSHIP OF ALL MAJOR SITE IMPROVEMENTS TO EXISTING SITE CONDITIONS AND FEATURES AND NOTIFY ENGINEER OF ANY DISCREPANCIES, ERRORS AND OMISSIONS BEFORE PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL BE HELD SOLELY RESPONSIBLE FOR SITE CONDITIONS, THE SAFETY OF HIS / HER WORKERS AND THOSE ASSISTING HIM / HER WITH SUPPLYING OR EXECUTING THE WORK, AND THE SECURITY OF PROPERTY HE / SHE IS STORING ON-SITE. THE CONTRACTOR IS NOT LIABLE FOR THE SAFETY OF THOSE WITHIN THE BUILDINGS OR WORKING ON THE BUILDINGS, NOR IS HE / SHE RESPONSIBLE FOR SECURING THE PROPERTY OF THE BUILDING CONTRACTOR OR THEIR ASSOCIATED TRADES. HOWEVER, CONTRACTOR IS REQUIRED TO MAINTAIN A CLEAN, ORGANIZED AND SAFE SITE, AND IS THE FINAL AUTHORITY AS TO THE LOCATION, PLACEMENT OR STORAGE OF ANY AND ALL MATERIALS, EQUIPMENT, VEHICLES AND TEMPORARY STRUCTURES USED DURING CONSTRUCTION. NEITHER THE OWNER NOR ENGINEER SHALL BE HELD RESPONSIBLE FOR THEFT, DAMAGE OR INJURY ON-SITE DURING CONSTRUCTION UNLESS IT IS DUE TO THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
- THE CONTRACTOR SHALL DETERMINE THE LIMITS OF CONSTRUCTION AND MARK THEM CLEARLY PRIOR TO COMMENCING GRADING OF THE SITE..
- DURING THE INSTALLATION OF UTILITIES TO SUPPORT THE PROJECT, THE CONTRACTOR SHALL MAINTAIN SERVICE TO NEIGHBORING PROPERTIES. DAMAGE TO LINES OR INTERRUPTIONS OF SERVICE SHALL BE IMMEDIATELY REPORTED TO THE SERVICE PROVIDER AND ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH REPAIR AND RESTORATION OF SERVICE.
- ALL EXISTING IMPROVEMENTS ADJACENT TO THE PROPERTY, SUCH AS ROADWAYS, SHALL BE PROTECTED FROM DAMAGE DUE TO THE EXECUTION OF THE WORK. ALL REPAIR MADE NECESSARY BY THE CONTRACTOR OR THOSE ASSISTING HIM / HER IN THE EXECUTION OF THE WORK SHALL BE BORNE BY THE CONTRACTOR.
- USE OF EXPLOSIVES IS EXPRESSLY PROHIBITED UNLESS STATED OTHERWISE. IF PERMITTED, THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND NOTIFY ENGINEER PRIOR TO STORING OR USING EXPLOSIVES ON-SITE. ALL OTHERS SHARING THE SITE FOR CONSTRUCTION PURPOSES SHALL ALSO BE NOTIFIED. USE OF EXPLOSIVES SHALL BE CAREFULLY COORDINATED WITH ALL OTHERS SHARING THE SITE AS WELL AS VDOT AND ADJACENT OWNERS.
- PRIOR TO ANY CONSTRUCTION WITHIN ANY EXISTING PUBLIC RIGHT-OF-WAY, INCLUDING CONNECTION TO ANY EXISTING ROAD, A PERMIT SHALL BE OBTAINED FROM THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT).
- CONTRACTOR SHALL COORDINATE TRAFFIC CONTROL MEASURES WITH VDOT INSPECTORS PRIOR TO OR AS PART OF THE REQUIRED PRE-CONSTRUCTION CONFERENCE.
- ALL UNSUITABLE SOIL MATERIAL SHALL BE STOCKPILED AND ITS DISPOSITION DETERMINED BY THE OWNER WHILE THE EARTHWORK ASPECT OF THE SITE WORK IS STILL UNDERWAY.
- ALL PAVING AND DRAINAGE-RELATED MATERIALS AND CONSTRUCTION SHALL CONFORM TO CURRENT SPECIFICATIONS AND STANDARDS OF VDOT UNLESS OTHERWISE NOTED. ALL MATERIALS TO BE USED IN STABILIZATION SHALL ALSO BE APPROVED BY ENGINEER.
- ALL HANDICAP PARKING SPACES SHALL BE IDENTIFIED VIA THE USE OF SIGNS AND PAINT SYMBOLS. THEY ARE TO BE 8' X 18' AND ADJACENT TO A 5' X 18' PAINT-OUT AISLE OR A 8' X 18' PAINT-OUT AISLE IN THE CASE OF VAN ACCESSIBLE SPACES SHALL.
- DUMPSTER PADS TO BE MINIMUM 10' x 10'. AN ADDITIONAL 8' IS REQUIRED IN FRONT FOR WHEEL BEARING..
- ALL PVC CONDUIT SHALL BE SCHEDULE 40.
- UNLESS OTHERWISE SPECIFIED, ALL WATERLINE IS TO BE CLASS 52 D.I.P. ALL WATER SERVICE LATERAL TO BE TYPE 'K' COPPER TUBING.
- ALL SANITARY SEWER LATERALS TO BE SDR-35 PVC AS A MINIMUM
- ANY TRANSPLANTED STOCK TO BE STOCKED-PILED ON SITE IN A LOCATION OUT OF CONSTRUCTION ACTIVITY AREAS. STOCK TO BE MULCHED IN AND ROUTINELY WATERED BY CONTRACTOR TO ENSURE SURVIVABILITY. ALL FUTURE LOCATIONS SHALL BE COORDINATED WITH LANDSCAPE ARCHITECT PRIOR TO PLANTING. PLANTING SHALL BE PERFORMED AT A SUITABLE TIME IN ACCORDANCE WITH TYPICAL NURSERY PRACTICES.
- ALL UTILITY CONDUITS SHALL BE LOCATED UNDER PAVING/HARDSCAPE SURFACES. CONTRACTOR TO VERIFY QUANTITIES AND SIZES WITH ALL SERVICE PROVIDERS PRIOR TO INSTALLATION AND ORDERING. ALL UTILITY PEDESTALS SHALL BE GROUPED TOGETHER. CONTRACTOR TO INSTALL ALL CONDUITS WITH PULL-WIRES AND EXTEND CONDUITS PAST BACK OF CURB OR SIDEWALK. TURN ALL CONDUITS UP AND CAP UNTIL UTILITY PROVIDER HAS INSTALLED GENERAL SERVICE.
- ALL STRUCTURAL FILL SHALL BE A MINIMUM OF 95% COMPACTED BASED ON A STANDARD PROCTOR TEST.
- ALL TRAFFIC CONTROL SIGNS SHALL CONFORM WITH THE VIRGINIA MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS.

ALBEMARLE COUNTY ENGINEERING GENERAL CONSTRUCTION NOTES FOR SITE PLANS

- PRIOR TO ANY CONSTRUCTION WITHIN ANY EXISTING PUBLIC RIGHT-OF-WAY, INCLUDING CONNECTION TO ANY EXISTING ROAD, A PERMIT SHALL BE OBTAINED FROM THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT). THIS PLAN AS DRAWN MAY NOT ACCURATELY REFLECT THE REQUIREMENTS OF THE PERMIT. WHERE ANY DISCREPANCIES OCCUR THE REQUIREMENTS OF THE PERMIT SHALL GOVERN.
- ALL MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO CURRENT SPECIFICATIONS AND STANDARDS OF VDOT UNLESS OTHERWISE NOTED.
- EROSION AND SILTATION CONTROL MEASURES SHALL BE PROVIDED IN ACCORDANCE WITH THE APPROVED EROSION CONTROL PLAN AND SHALL BE INSTALLED PRIOR TO ANY CLEARING, GRADING OR OTHER CONSTRUCTION.
- ALL SLOPES AND DISTURBED AREAS ARE TO BE FERTILIZED, SEEDED AND MULCHED.
- THE MAXIMUM ALLOWABLE SLOPE IS 2:1 (HORIZONTAL-VERTICAL), WHERE REASONABLY OBTAINABLE, LESSER SLOPES OF 3:1 OR BETTER ARE TO BE ACHIEVED.
- PAVED, RIP-RAP OR STABILIZATION MAT LINED DITCH MAY BE REQUIRED WHEN IN THE OPINION OF THE COUNTY ENGINEER, OR DESIGNEE, IT IS DEEMED NECESSARY IN ORDER TO STABILIZE A DRAINAGE CHANNEL.
- ALL TRAFFIC CONTROL SIGNS SHALL CONFORM WITH THE VIRGINIA MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES.
- UNLESS OTHERWISE NOTED ALL CONCRETE PIPE SHALL BE REINFORCED CONCRETE PIPE - CLASS III.
- ALL EXCAVATION FOR UNDERGROUND PIPE INSTALLATION MUST COMPLY WITH OSHA STANDARDS FOR THE CONSTRUCTION INDUSTRY (29 CFR PART 1926).

ALBEMARLE COUNTY ENGINEERING GENERAL CONSTRUCTION NOTES FOR SITE PLANS

- WORK SHALL BE SUBJECT TO INSPECTION BY ALBEMARLE COUNTY SERVICE AUTHORITY (ACSA) INSPECTORS. THE CONTRACTOR WILL BE RESPONSIBLE FOR NOTIFYING THE PROPER ACSA OFFICIALS AT THE START OF THE WORK.
- THE LOCATION OF EXISTING UTILITIES ACROSS THE LINE OF THE PROPOSED WORK ARE NOT NECESSARILY SHOWN ON THE PLANS AND WHERE SHOWN ARE ONLY APPROXIMATELY CORRECT. THE CONTRACTOR SHALL, ON HIS OWN INITIATIVE, LOCATE ALL UNDERGROUND LINES AND STRUCTURES, AS NECESSARY.
- ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH THE CURRENT EDITION OF THE GENERAL WATER AND SEWER CONSTRUCTION SPECIFICATIONS, AS ADOPTED BY THE ACSA.
- DATUM FOR ALL ELEVATIONS SHOWN IN NATIONAL GEODETIC SURVEY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY (1-800-552-7001)
- ALL WATER AND SEWER PIPES SHALL HAVE A MINIMUM OF THREE (3) FEET OF COVER MEASURED FROM THE TOP OF PIPE, OVER THE CENTERLINE OF PIPE. THIS INCLUDES ALL FIRE HYDRANT LINES, SERVICE LATERALS AND WATER LINES, ETC.
- ALL WATER AND SEWER APPURTENANCES ARE TO BE LOCATED OUTSIDE OF ROADSIDE DITCHES.
- VALVES ON DEADEND LINES SHALL BE RODDED TO PROVIDE ADEQUATE RESTRAINT FOR THE VALVE DURING A FUTURE EXTENSION OF THE LINE.
- TREES ARE NOT PERMITTED IN THE ACSA EASEMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH THE NO-LEAD REGULATION REGARDING BRASS FITTING EFFECTIVE JANUARY 4, 2014 (SENATE BILL 3874 WHICH AMENDS THE SAFE DRINKING WATER ACT).

CONDITIONS OF SPECIAL USE PERMIT, SP2015-012

- THE APPLICANT SHALL INSTALL A METER ON THE WELL HEAD TO MONITOR WATER CONSUMPTION. RESULTS OF DAILY WATER CONSUMPTION MONITORING RESULTS WILL BE MADE AVAILABLE WITHIN FORTY-EIGHT (48) HOURS OF A REQUEST FROM THE ZONING ADMINISTRATOR.
- WATER CONSUMPTION SHALL BE RESTRICTED TO A MAXIMUM OF 5,000 GALLONS PER DAY.

STANDARDS AND SPECIFICATIONS

- VIRGINIA DEPARTMENT OF TRANSPORTATION (V.D.O.T.) ROAD AND BRIDGE SPECIFICATIONS, DATED 2007.
- VIRGINIA DEPARTMENT OF TRANSPORTATION (V.D.O.T.) ROAD AND BRIDGE STANDARDS, DATED 2008.
- VIRGINIA DEPARTMENT OF TRANSPORTATION (V.D.O.T.) WORK AREA PROTECTION MANUAL, DATED 2011.
- VIRGINIA DEPARTMENT OF CONSERVATION AND RECREATION, DIVISION OF SOIL AND WATER CONSERVATION, VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, THIRD EDITION, 1992.
- INSTITUTE OF TRANSPORTATION ENGINEERS (ITE MANUAL), TRIP GENERATION, 8TH EDITION.
- VIRGINIA MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS, DATED 2009.
- ALBEMARLE COUNTY SERVICE AUTHORITY CONSTRUCTION SPECIFICATIONS REGULATING THE CONSTRUCTION AND EXPANSION OF THE WATER AND SEWER SYSTEMS WITHIN THE COUNTY OF ALBEMARLE, VIRGINIA, DATED 2005.
- INTERNATIONAL CODE COUNCIL AMERICAN NATIONAL STANDARD- ACCESSIBLE & USABLE BUILDINGS AND FACILITIES, DATED 2003.

SITE DATA

DEVELOPER:	MECHUM'S TRESTLE, LLC; 99 BLOOMFIELD ROAD CHARLOTTESVILLE, VA 22903 CONTACT: BILL MCKECHNIE; 434-906-5787
PROPERTY OWNER:	MECHUM'S TRESTLE, LLC; 99 BLOOMFIELD ROAD CHARLOTTESVILLE, VA 22903 CONTACT: BILL MCKECHNIE; 434-906-5787
TAX MAP / PARCEL #:	TAX MAP 57, PARCEL 31A
PROPERTY ADDRESS:	4294 THREE NOTCH'D ROAD
PROPERTY SIZE:	1.387 ACRES
ZONING:	C1 COMMERCIAL
MAGISTERIAL:	WHITE HALL
COMPREHENSIVE PLAN:	RURAL AREA 3
DRINKING WATER WATERSHED:	SOUTH RIVANNA RESERVIOR
OVERLAY DISTRICTS:	FLOOD HAZARD; DAM INUNDATION ZONE (STATE); SCENIC BYWAY; ENTRANCE CORRIDOR (EC)
TOTAL # OF UNITS / DENSITY:	N/A
DENSITY BONUS FACTORS:	NONE
SPECIAL EXCEPTION REQUESTS:	SPECIAL USE PERMIT, SP2015-012, APPROVED WITH CONDITIONS BY BOARD OF SUPERVISORS 08/05/15 ALLOWANCE OF REQUIRED LANDSCAPE BUFFER TO BE LOCATED IN RIGHT OF WAY

SURVEY SOURCES:	ROUDABUSH, GALE & ASSOCIATES, INC. ENGINEERS, SURVEYORS AND LAND PLANNERS 914 MONTICELLO ROAD - CHARLOTTESVILLE, VIRGINIA 22902 (434) 977-0205																						
DATUM:	VERTICAL NAVD-88.																						
BENCHMARK:	PK NAIL FOUND IN UTILITY POLE ELEV. 503.50																						
LAND-USE BREAKDOWN:	<table><tr><td>LAND-USE</td><td>SF</td><td>AC</td><td>%</td></tr><tr><td>BUILDINGS:</td><td>3,922</td><td>0.090</td><td>6.49%</td></tr><tr><td>PAVED/GRAVEL AREA:</td><td>18,023</td><td>0.414</td><td>29.83%</td></tr><tr><td>OTHER OPEN AREA:</td><td>38,473</td><td>0.883</td><td>63.68%</td></tr><tr><td>TOTAL SITE ACREAGE:</td><td>60,418</td><td>1.387</td><td>100%</td></tr></table>			LAND-USE	SF	AC	%	BUILDINGS:	3,922	0.090	6.49%	PAVED/GRAVEL AREA:	18,023	0.414	29.83%	OTHER OPEN AREA:	38,473	0.883	63.68%	TOTAL SITE ACREAGE:	60,418	1.387	100%
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SETBACKS:	30' BUILDING SETBACK ADJACENT TO PUBLIC STREET 10' PARKING SETBACK ADJACENT TO PUBLIC STREET (SEE ATTACHED LETTER) 20' BUFFER ZONE ADJACENT TO RESIDENTIAL																						
MAX. HEIGHT OF STRUCTURE:	35'																						
BUILDING SQUARE FOOTAGE:	3,922 SF																						
PROPOSED USE:	RESTAURANT																						
RECREATIONAL AREA:	N/A																						
LANDSCAPE REQUIREMENTS:	LANDSCAPE PLAN PER THE REQUIREMENTS OF SECTION 32.7.9 OF THE COUNTY CODE (SEE SHEET 4)																						
PARKING REQUIREMENTS:	13 PARKING SPACES PER 1,000 SF OF GROSS FLOOR AREA REQUIRED SPACES = 3,922/1,000 X 13 = 51 (3 ADA SPACES REQUIRED, 1 VAN ACCESSIBLE) PROVIDED SPACES = 51 (3 ADA SPACES PROVIDED, 2 VAN ACCESSIBLE)																						

ITE TRIP GENERATION

LAND USE CODE 931: QUALITY RESTAURANT (4,000 SF)	DAY	WEEKDAY	WEEKDAY	SATURDAY	SATURDAY	SUNDAY	SUNDAY
			PEAK HOUR GEN.		PEAK HOUR GEN.		PEAK HOUR GEN.
TRIP GENERATION RATE	89.95 VPD/1,000 SF	9.02 VPH/1,000 SF	94.36 VPD/1,000 SF	10.82 VPD/1,000 SF	72.16 VPD/1,000 SF	8.38 VPD/1,000 SF	34 VPH
TOTAL	360 VPD	36 VPH	380 VPD	44 VPH	288 VPD		

SURVEYOR'S LEGEND

BH	BORE HOLE
BM	BENCH MARK
CO	CLEAN OUT
DIP	DUCTILE IRON PIPE
E	SANITARY SEWER MANHOLE
IF	IRON FOUND
MF	MONUMENT FOUND
PF	PIPE FOUND
PKNS	P-K NAIL SET
S	SIGN
WM	WATER METER
WV	WATER VALVE
240AK40	= 24" OAK W/ 40' CANOPY DIA.

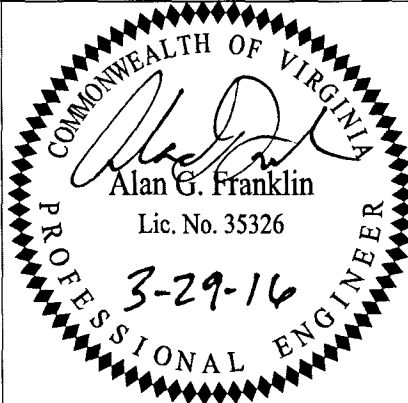
UTILITIES LEGEND

---	GAS LINE
---	PHONE LINE
---	OVERHEAD ELECTRIC
---	SANITARY SEWER
---	UNDERGROUND ELECTRIC
---	WATER LINE
---	EX. STORM DRAIN LINE
---	PROP. STORM DRAIN LINE

DEMOLITION LEGEND

TBS	TO BE SAVED
TBR	TO BE REMOVED
EX.	EXISTING
[Hatched Box]	SITE ELEMENT TO BE REMOVED
[X in Circle]	TREE TO BE REMOVED
---	UTILITY LINE TO BE REMOVED

waterstreetstudio
landscape architecture | civil engineering
118 P. Main Street | 434-996-5777 | Charlottesville, VA 22902



COVER SHEET
FINAL SITE PLAN/ARB SUBMITTAL

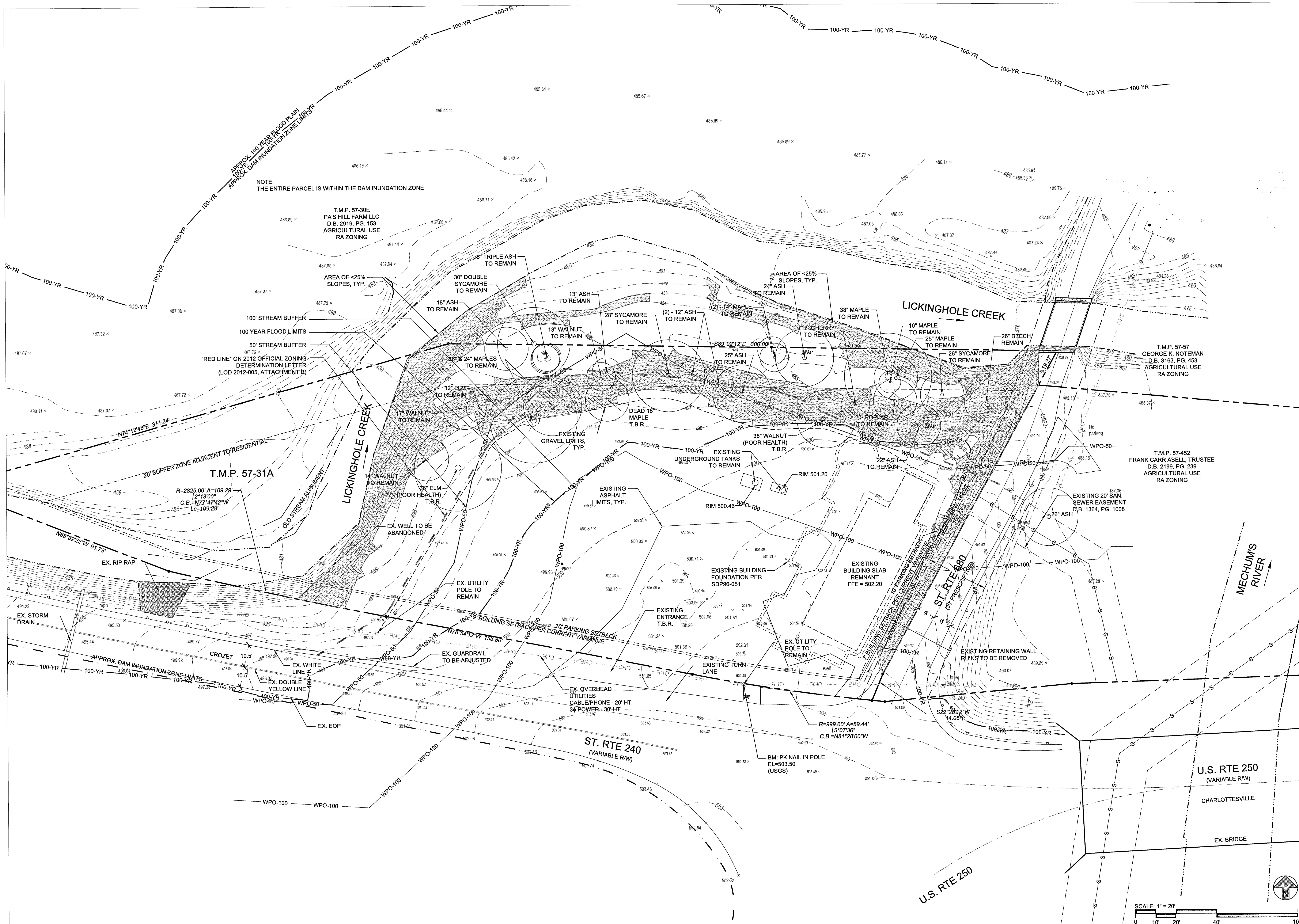
01.25.16 - ACSA/RWSA
& CO. COMMENTS
01.21.16 - ARB
LABEL CORRECTION
12.08.15 - ARB
COMMENTS

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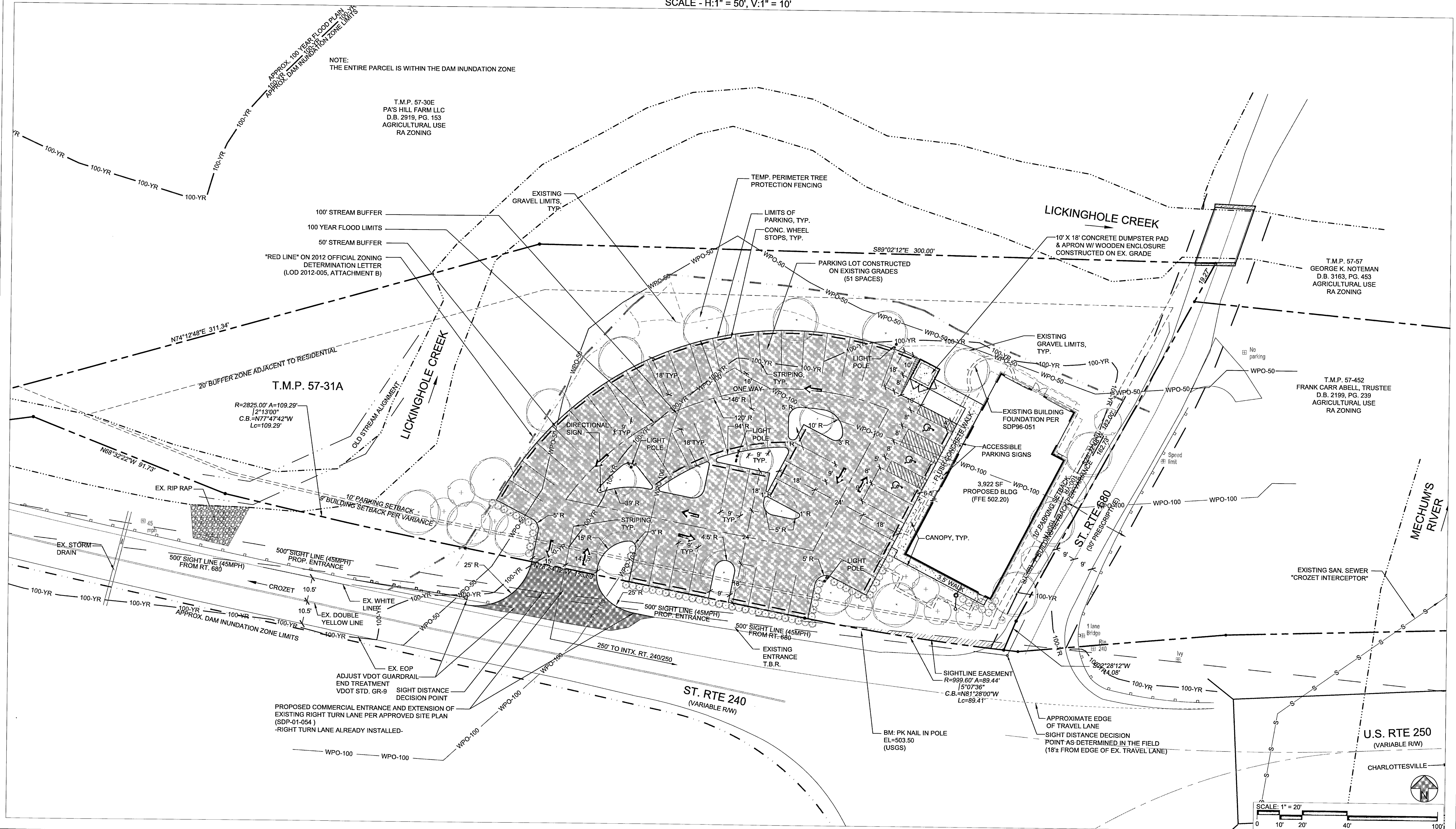
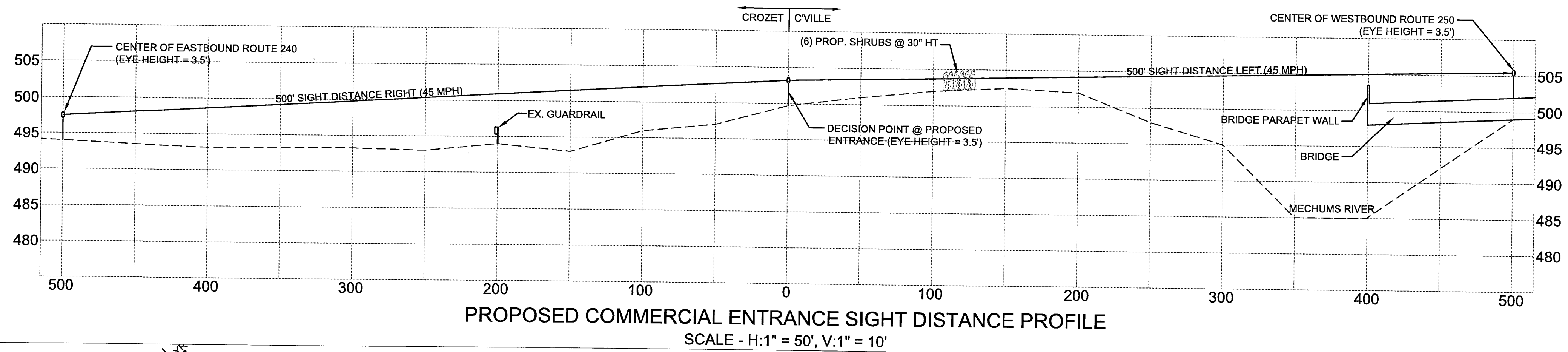
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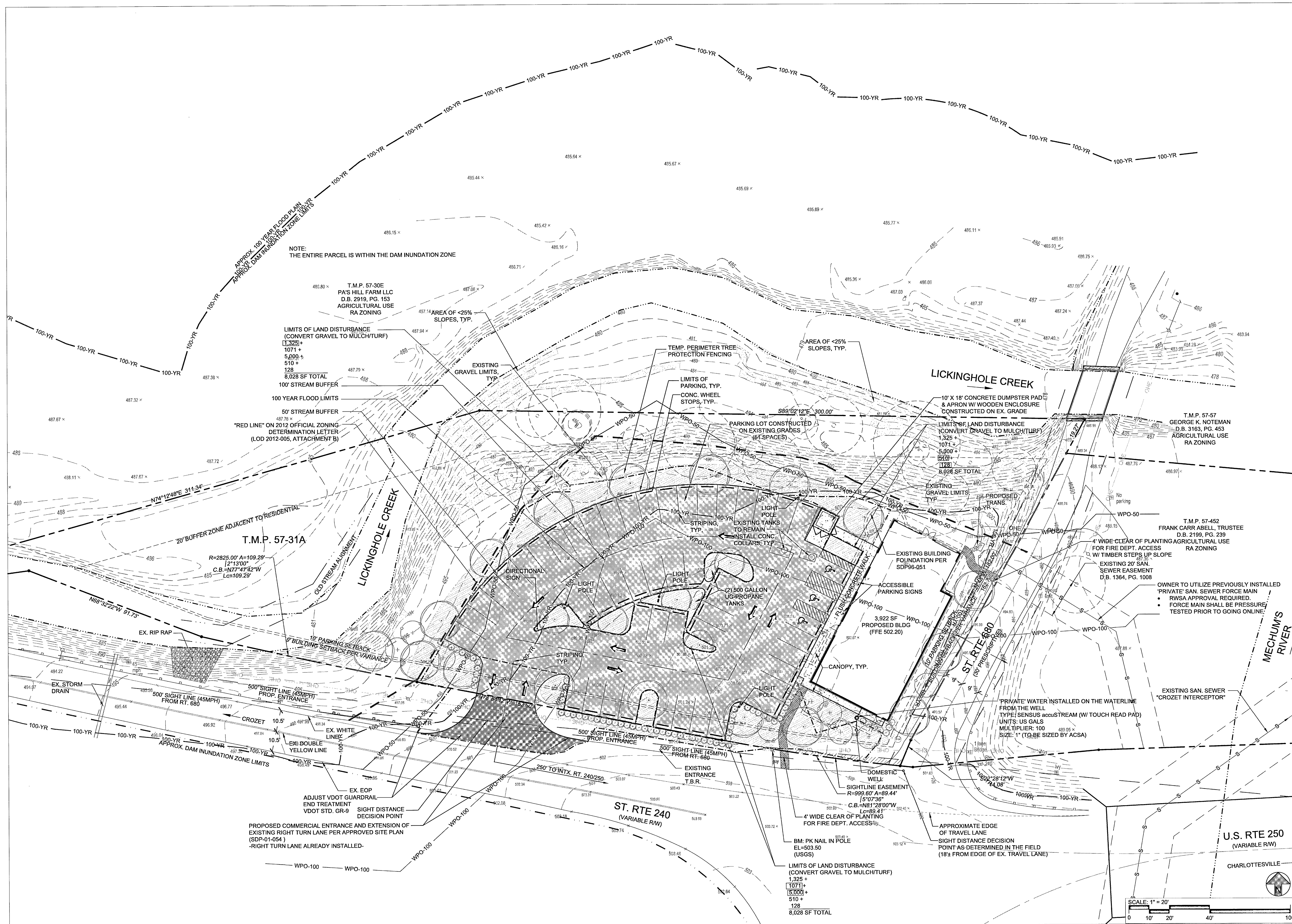
MECHUM'S TRESTLE - ALBEMARLE COUNTY, VIRGINIA

REVISIONS



REVISIONS
01.25.16 - ACS/ARWSA & CO. COMMENTS
01.21.16 - ARB LABEL CORRECTION
12.08.15 - ARB COMMENTS



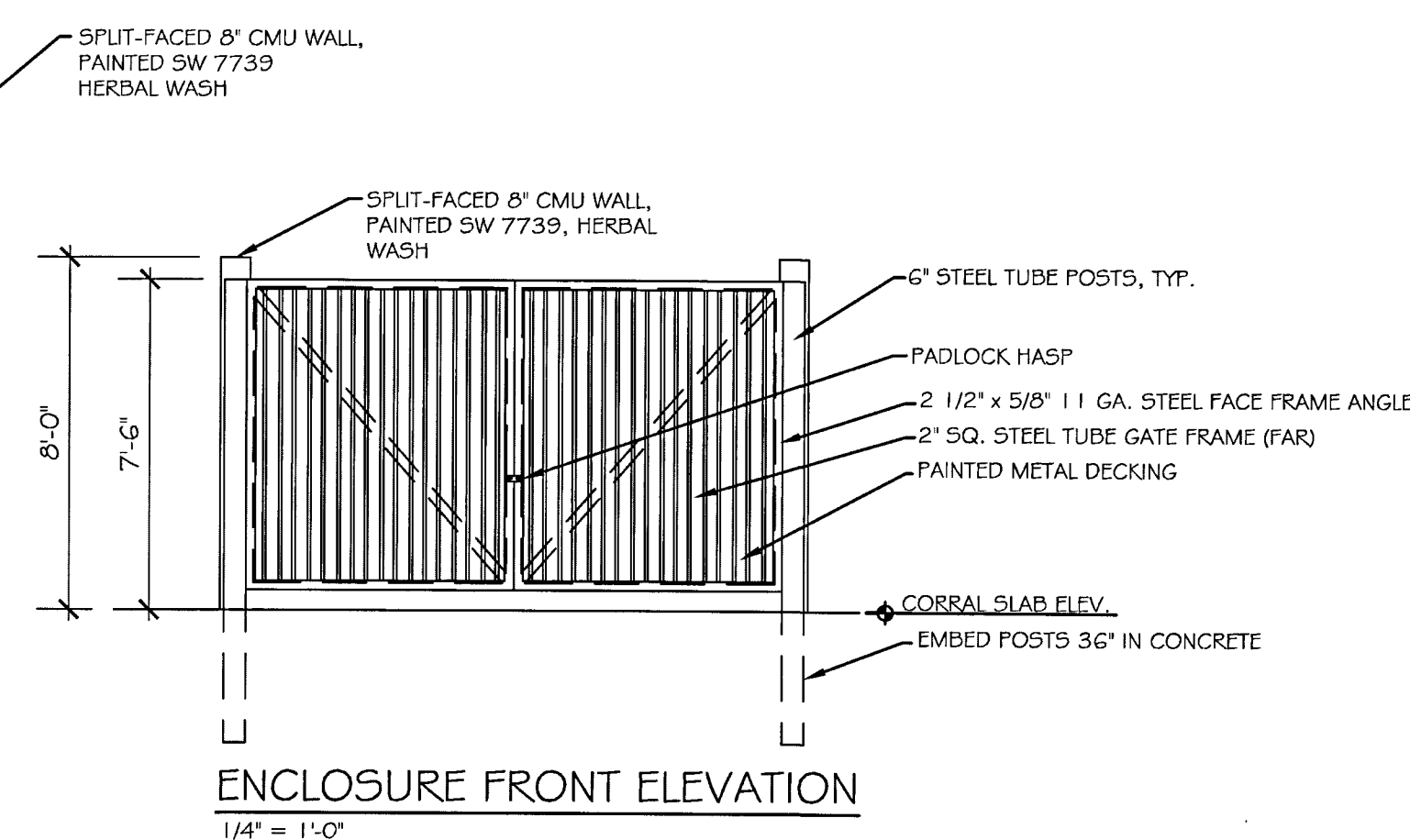
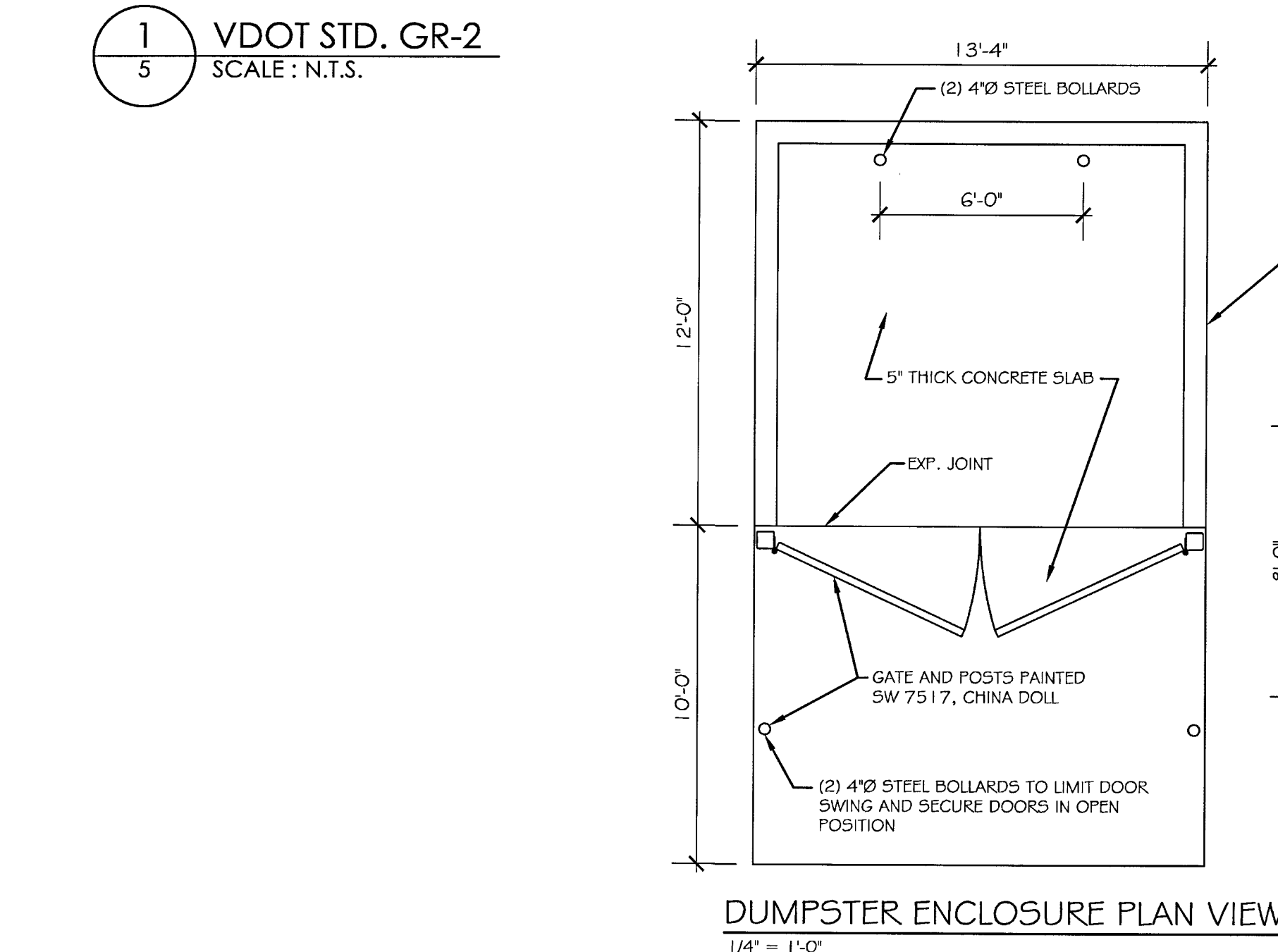
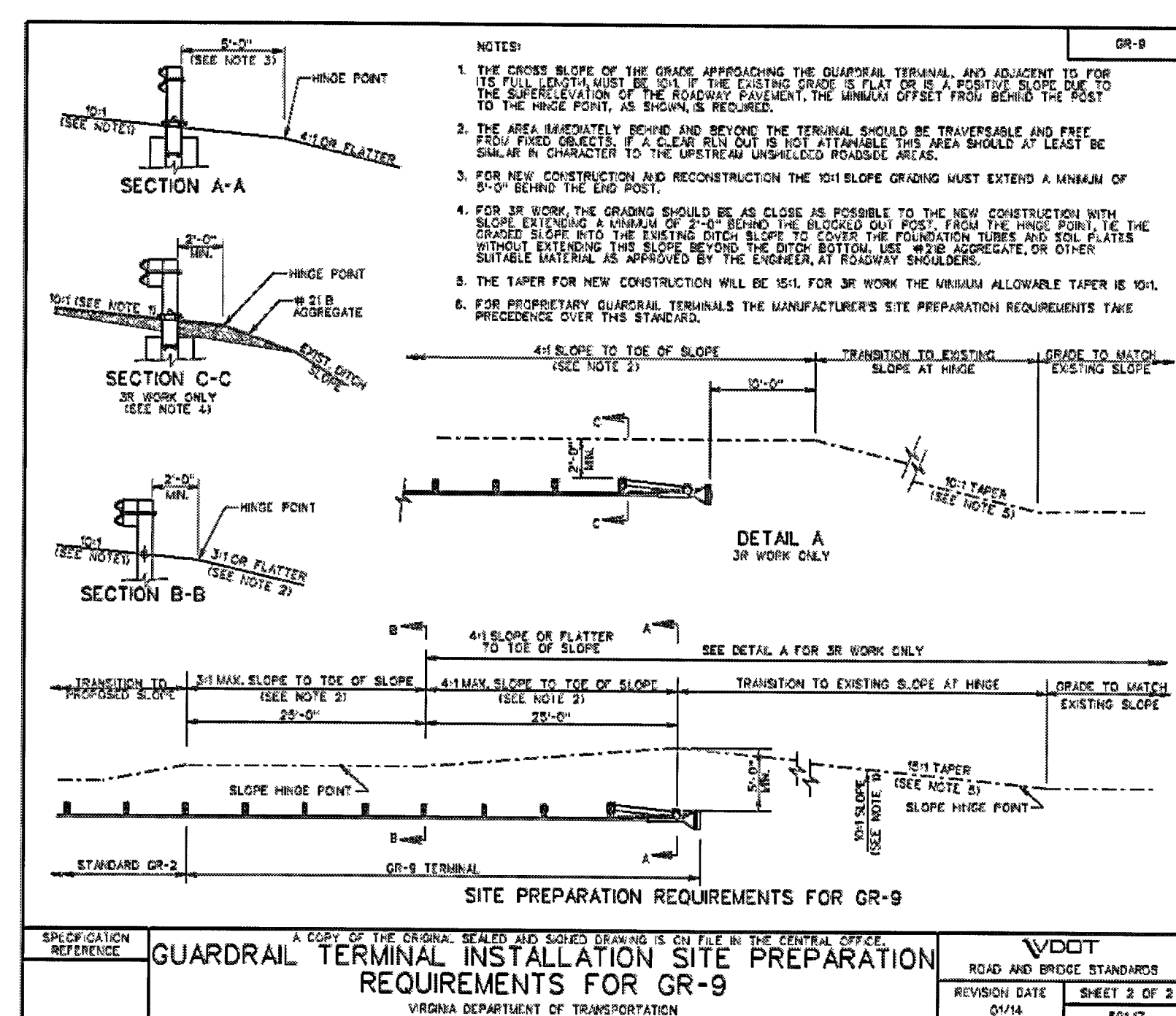
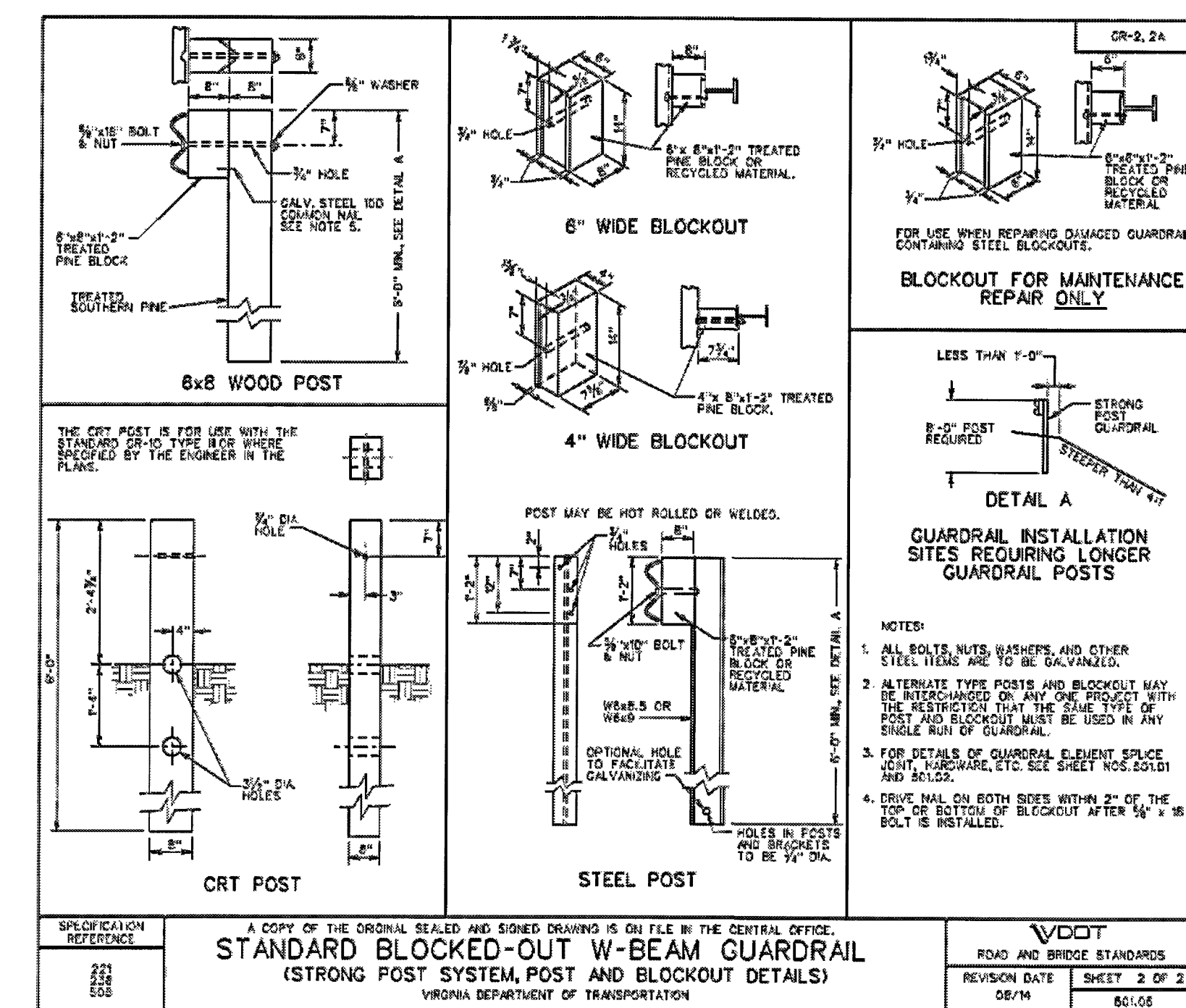
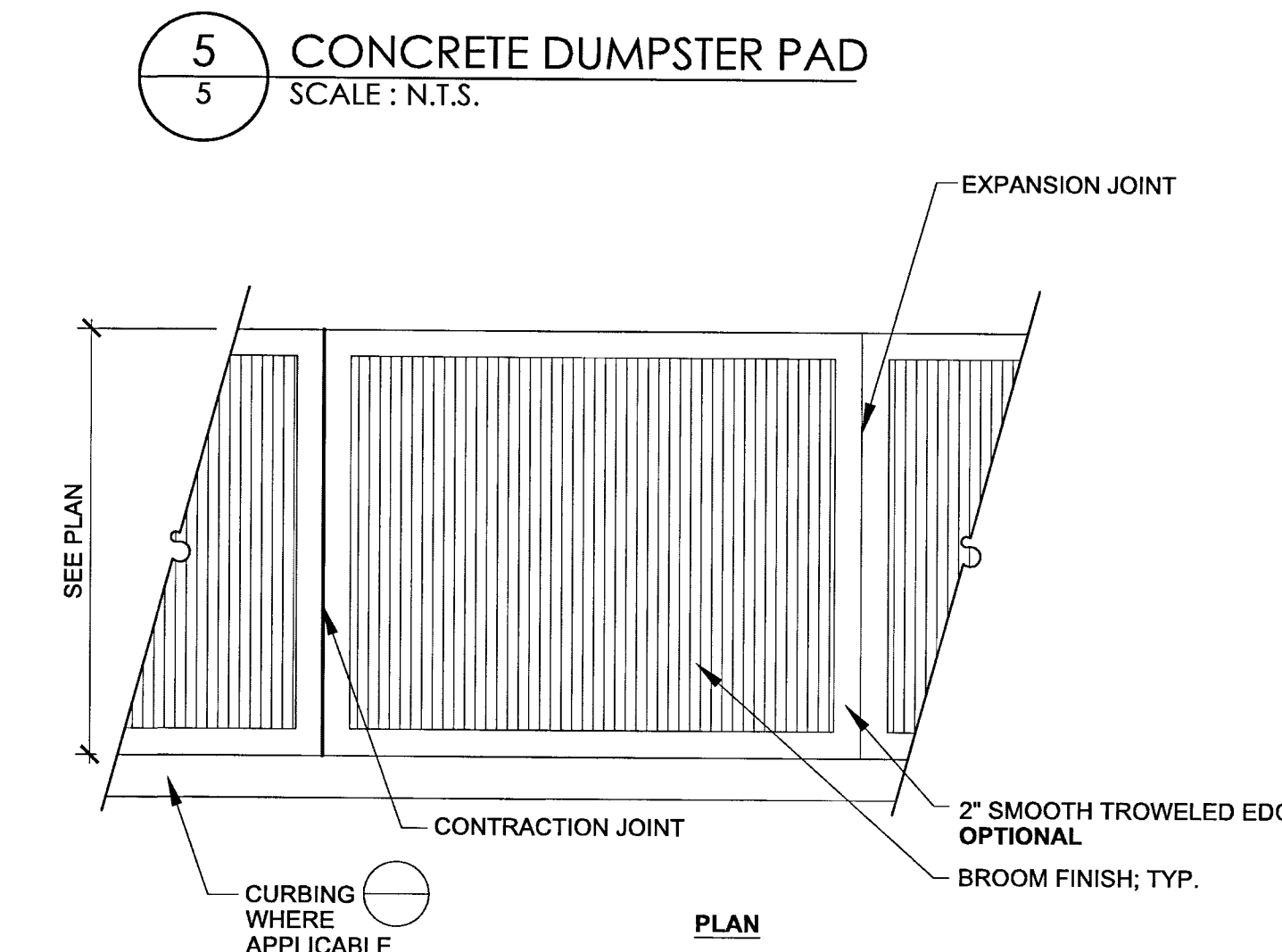
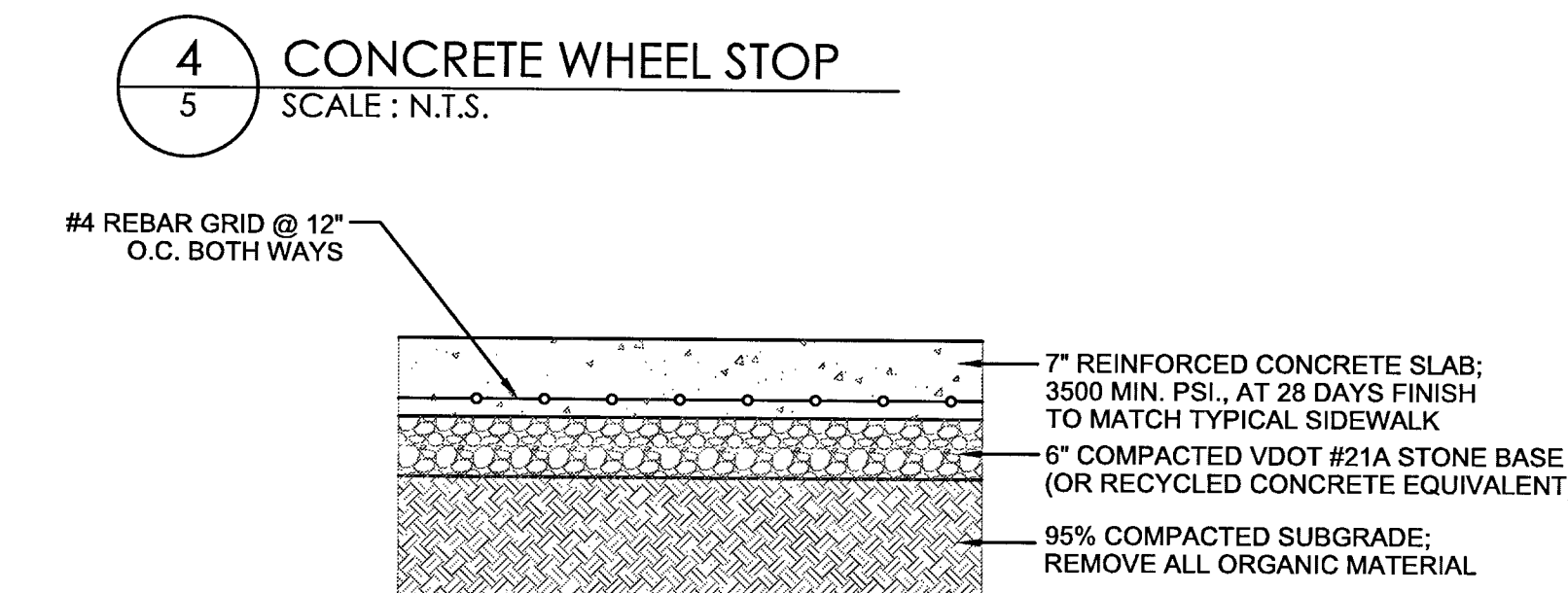
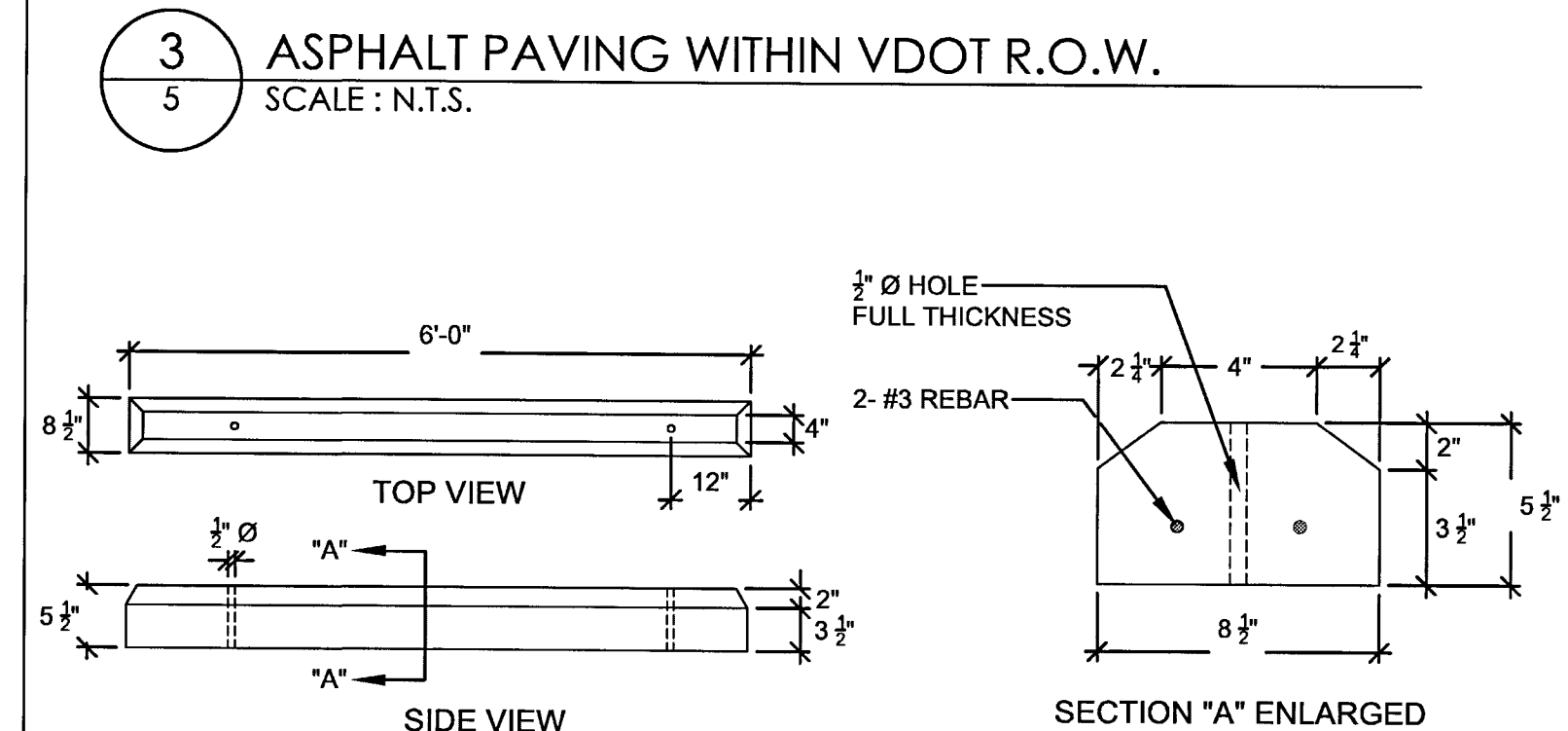
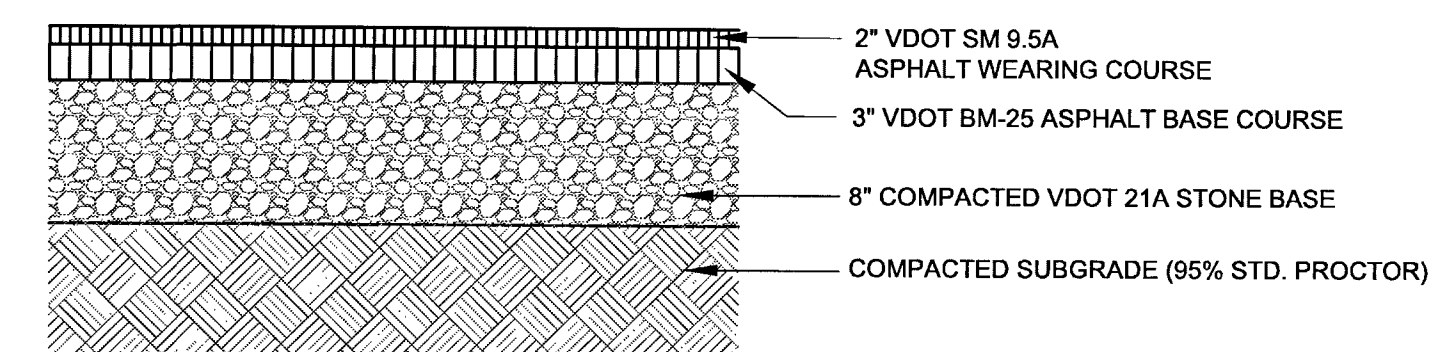
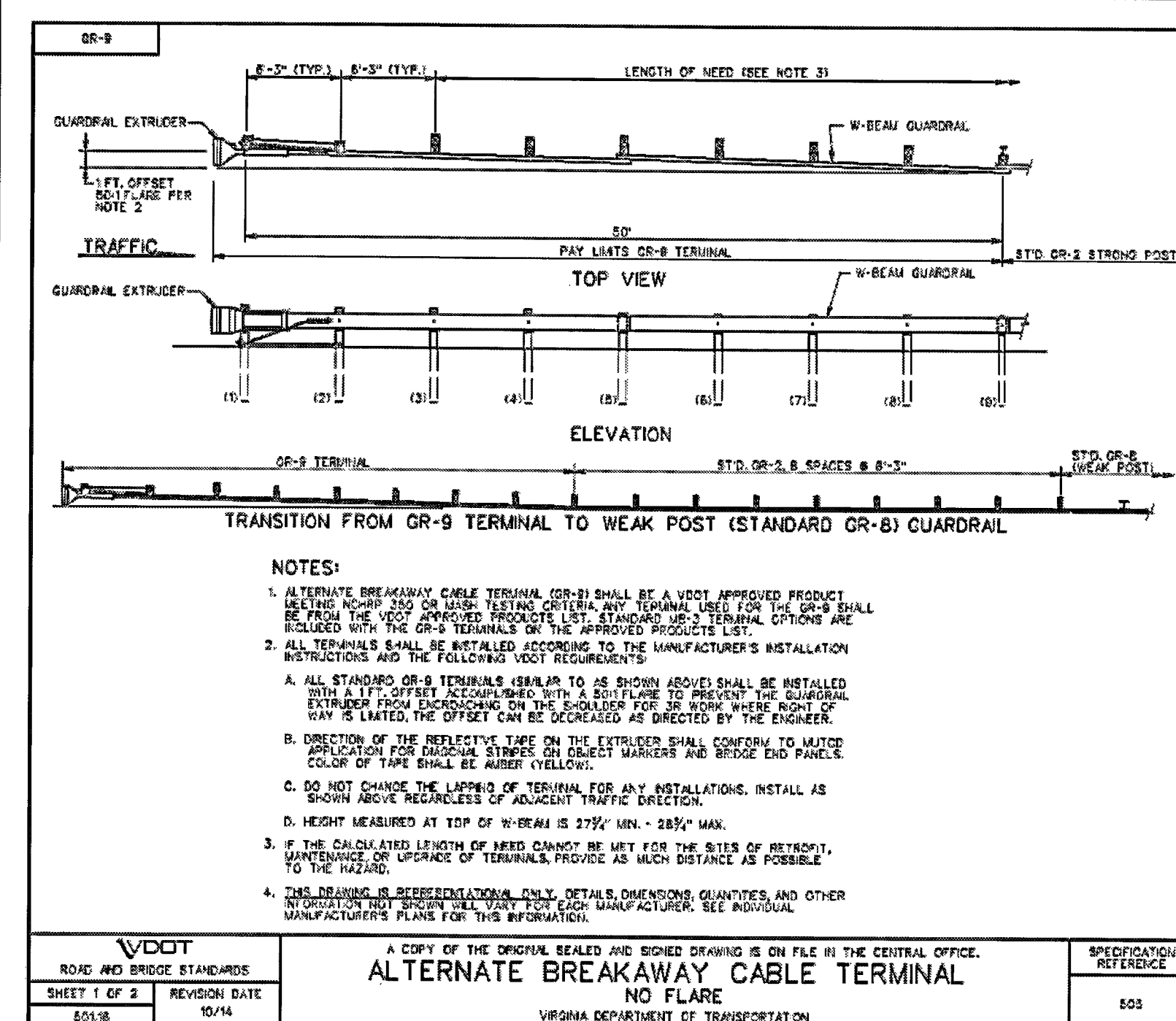
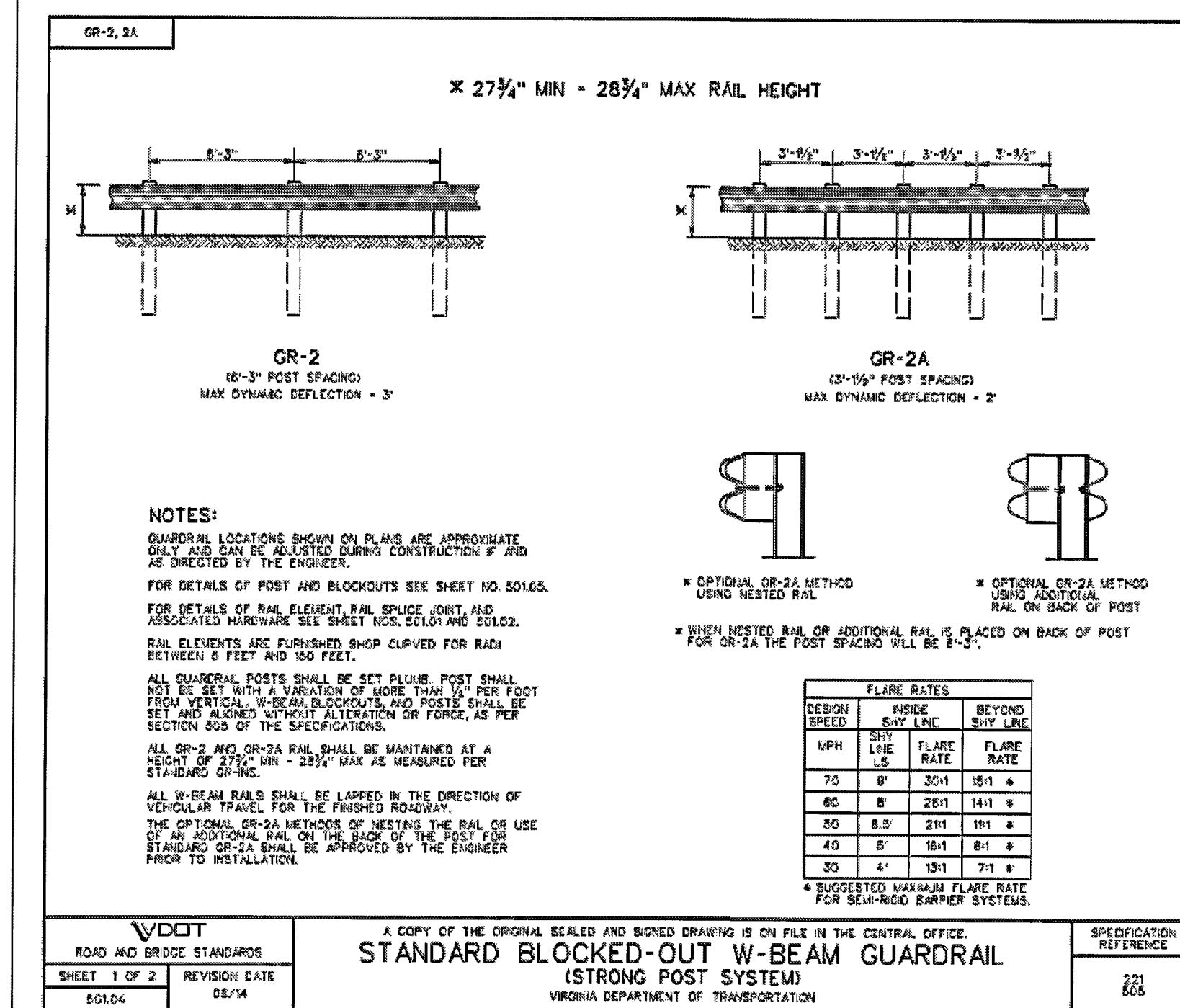


SITE & UTILITY PLAN

FINAL SITE PLAN/ARB SUBMITTAL

MECHUM'S TRESTLE - ALBEMARLE COUNTY, VIRGINIA

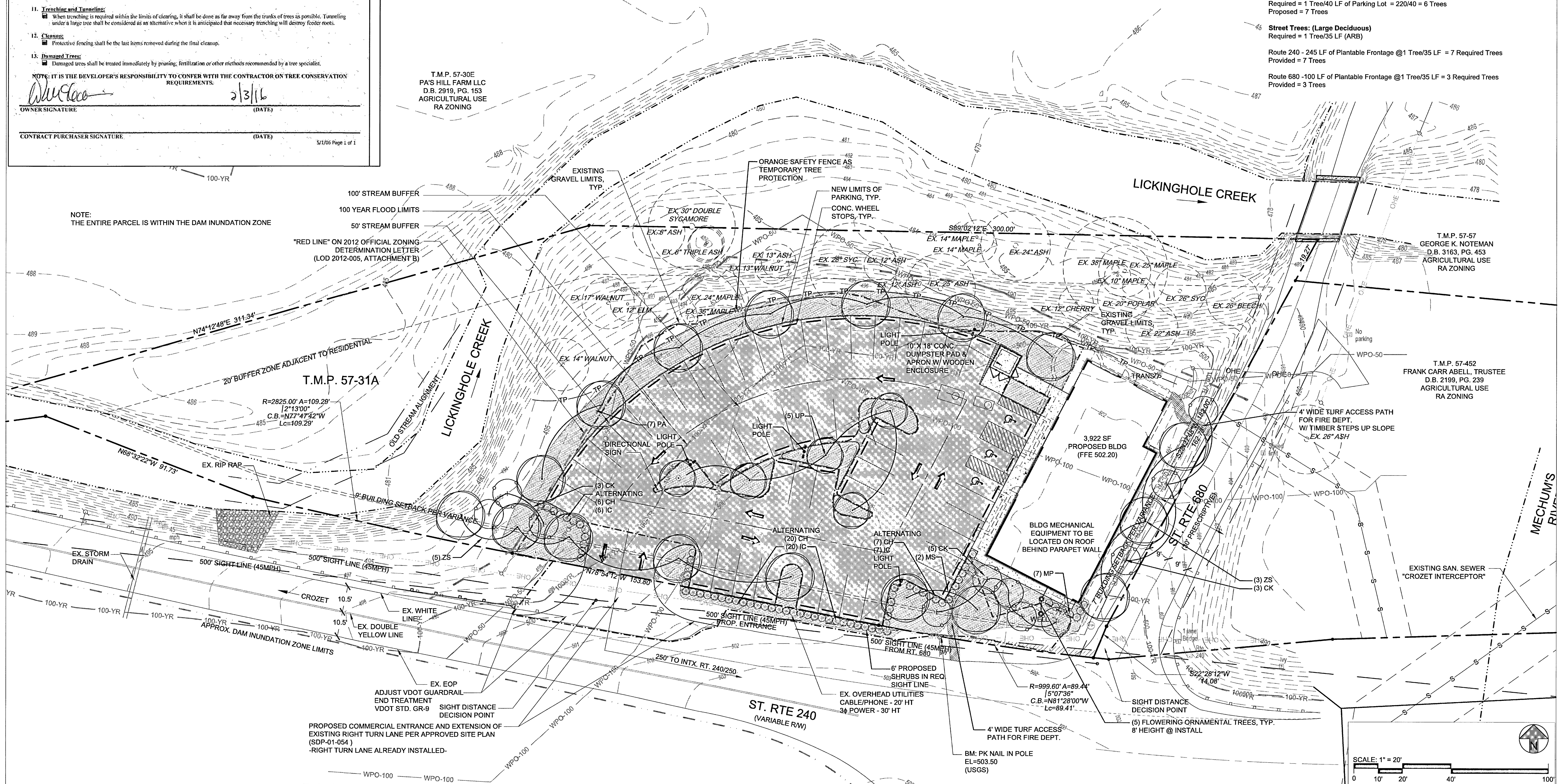
REVISIONS
01.25.16 - ACSARWSA & CO. COMMENTS
01.21.16 - ARB LABEL CORRECTION
12.08.15 - ARB COMMENTS



3. The following items shall be shown on the plan:
 - Trees to be saved;
 - Limits of clearing (outside dripline of trees to be saved);
 - Location and type of protective fencing;
 - Grade changes requiring tree wells or walls;
 - Proposed trenching or tunneling beyond the limits of clearing.
2. Markings:
 - All trees to be saved shall be marked with print or ribbon at a height clearly visible to equipment operators.
 - No grading shall begin until the tree marking has been inspected and approved by a County Inspector.
3. Pre-Construction Conference:
 - Tree preservation and protection measures shall be reviewed with the contractor on site.
4. Equipment Operation and Storage:
 - Heavy equipment, vehicular traffic and storage of construction materials including soil shall not be permitted within the driplines or to be saved.
5. Soil Erosion and Stormwater Detention Devices:
 - Such devices shall not adversely affect trees to be saved.
6. Fires:
 - Fires are not permitted within 100 feet of the dripline of trees to be saved.
7. Toxic Materials:
 - Toxic materials shall not be stored within 100 feet of the dripline of trees to be saved.
8. Protective Fencing:
 - Trees to be retained within 40 feet of a proposed building or grading activity shall be protected by fencing.
 - Fencing shall be in place and shall be inspected and approved by a County Inspector prior to grading or construction.
9. Tree Wells:
 - When the ground level must be raised within the dripline of a tree to be saved, a tree well shall be provided and a construction detail submitted for approval.
10. Tree Walls:
 - When the ground level must be lowered within the dripline a tree to be saved, a tree wall shall be provided; and a construction detail submitted for approval.
11. Trenching and Tunneling:
 - When trenching is required within the limits of clearing, it shall be done as far away from the trunks of trees as possible. Tunneling under a large tree shall be considered as an alternative when it is anticipated that necessary trenching will destroy feeder roots.
12. Cleaning:
 - Protective fencing shall be the last items removed during the final cleanup.
13. Damaged Trees:
 - Damaged trees shall be treated immediately by pruning, fertilization or other methods recommended by a tree specialist.

PLANT SCHEDULE AND CANOPY VALUES								CANOPY CALC.	
ABE#	SCIENTIFIC NAME	COMMON NAME	QTY	SIZE	ROOT O.C.	COMMENTS	SP PLANT	SP TOTAL	
TREES									
CK	Cornus kousa	Kousa Dogwood	11	8' - 9' ht	B&B	Specimen	128	1,408	
MS	Magnolia stellata	Star Magnolia	2	10' ht	B&B	Specimen	49	98	
PA	Platanus x acerifolia 'Bloodgood'	London Planetree	7	2 1/2"	B&B	Single leader, specimen	368	2,576	
UP	Ulmus parvifolia 'Allee'	Allee Elm	5	2 1/2" cal	B&B	Single leader, specimen	366	1,830	
ZS	Zelkova serrata 'Green Vase'	Green Vase Zelkova	8	3 1/2" cal	B&B	Single leader, specimen	572	4,576	
SHRUBS									
CH	Ceanothus x harringtonia 'Prostrata'	Spreading Japanese Plum Yew	33	30" ht	3 Gal.	3' full to ground	0	0	
IC	Ilex cornuta 'Dwarf Burford'	Dwarf Burford Holly	33	30" ht	3 Gal.	3' full to ground	0	0	
MP	Myrica pusilla	Dwarf Wax Myrtle	7	30" ht	3 Gal.	3' full to ground	0	0	
Total New Tree Canopy =							10,488 sf		

1. ALL SITE PLANTINGS OF TREES AND SHRUBS SHALL BE ALLOWED TO REACH, AND BE MAINTAINED AT MATURE HEIGHT; THE TOPPING OF TREES IS PROHIBITED. SHRUBS AND TREES SHALL BE PRUNED MINIMALLY AND ONLY TO SUPPORT THE OVERALL HEALTH OF THE PLANT.
2. THE VISIBILITY OF ALL MECHANICAL EQUIPMENT FROM THE ENTRANCE CORRIDOR SHALL BE ELIMINATED.



NOTES: MINIMUM STANDARD FOR SOIL PREPARATION

TOPSOIL:

1) TOPSOIL SHALL BE NATURALLY OCCURRING, FERTILE, GRANULAR, FRIABLE LOAM, FREE OF STONES OR OTHER DEBRIS LARGER THAN 2" IN DIAMETER AND NOXIOUS WEEDS OR WEED SEEDS. PREFERENCE SHALL BE GIVEN TO SOILS NATIVE TO THE SITE. LOAM SOILS SHALL HAVE A CLAY CONTENT BETWEEN 15 AND 27% AND SHALL HAVE A TEXTURE OF LOAM, SANDY LOAM, OR SILT LOAM, ACCORDING TO THE USDA SOIL CLASSIFICATION SYSTEM. SOIL pH SHALL RANGE BETWEEN 6 AND 7. TOPSOIL SHALL CONTAIN NOT LESS THAN 3% ORGANIC MATTER. SUBMIT SOIL SAMPLE AND COMPLETE SOIL ANALYSIS REPORT TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.

2) TOPSOIL SHALL BE INSTALLED IN FRIABLE CONDITION IN ALL LANDSCAPED AREAS TO A MINIMUM DEPTH OF 6". SOILS SHALL NOT BE WORKED WHEN WET. VERIFY REQUIRED TOPSOIL DEPTHS WITH THE LANDSCAPE ARCHITECT.

PLANTING SOIL:

3) THE LANDSCAPE CONTRACTOR SHALL FURNISH ALL TOPSOIL AND PLANTING SOIL MIX. MATERIAL MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. (REFER TO SPECIFICATION SECTION _____ AND NOTE (1) ABOVE PLUS NOTE (4) TO UNDER THIS HEADING FOR TOPSOIL AND AMENDMENT REQUIREMENTS).

4) THE TYPICAL PLANTING SOIL MIX FOR ON-GRADE PLANTINGS IN CONTIGUOUS PLANTING BED (NOT INDIVIDUAL PLANTING HOLES) SHALL CONSIST OF THE FOLLOWING UNLESS OTHERWISE INDICATED ON THE DRAWINGS:

BY VOLUME:

80% TOPSOIL AS SPECIFIED IN NOTE (1)

20% FULLY COMPOSTED ORGANIC MATTER FREE OF VIABLE WEED SEED, HEAVY METALS, AND EXCESSIVE LEVELS OF NUTRIENTS OR SALTS

+ SLOW RELEASE COMMERCIAL FERTILIZER(S) AND MINERALS AS RECOMMENDED IN THE SOIL ANALYSIS REPORT 1 LB. ACUTAL NITROGEN IN SLOW RELEASE FORMULATION PER 1,000 SQUARE FEET LIME AS RECOMMENDED IN SOIL ANALYSIS REPORT

SITE PREPARATION:

5) IN AREAS SCHEDULED FOR LANDSCAPE INSTALLATION WHERE CLEARING AND GRUBBING HAS NOT BEEN COMPLETED, OR WHERE VEGETATION HAS REESTABLISHED, THE CONTRACTOR SHALL CLEAR AND GRUB ALL WEEDS, DEAD PLANT MATERIAL, STUMPS, AND ALL OTHER MATERIAL NOT NOTED TO BE SAVED.

6) VERIFY MATERIAL TO BE REMOVED WITH THE LANDSCAPE ARCHITECT PRIOR TO ANY CLEARING AND GRUBBING.

SOIL PREPARATION- ALL PLANTING BEDS:

WHERE SOILS ARE SUFFICIENT TO MEET THE DEFINITION OF TOPSOIL ESTABLISHED IN NOTE (1)–

7) CREATE A V-DITCH BED EDGE TO A DEPTH OF 3" FOR ALL BEDS, UNLESS OTHERWISE NOTED.

8) ROTOTILL BED AREAS TO A MINIMUM DEPTH OF 8". REMOVE DEBRIS GREATER THAN 2" IN DIAMETER. DO NOT ROTOTILL WHEN SOILS ARE WET. DO NOT ROTOTILL WITHIN THE DRIP LINE OF ANY TREE.

9) SPREAD 2" FULLY COMPOSTED ORGANIC MATTER (AS DEFINED NOTE (4)) THOUGHOUT THE PLANTING BED. EVENLY APPLY SOIL AMENDMENTS AS INDICATED IN NOTE (4). INCORPORATE AMENDMENTS INTO TOP 6" OF SOIL BY ROTOTILLING AGAIN.

10) RAKE BED SMOOTH AT SPECIFIED GRADIENT(S), ASSURING POSITIVE DRAINAGE TO THE PERIMETER, AFTER PLANTING APPLY 2-3"AGED, DOUBLE-SHREDDED HARDWOOD MULCH FREE OF DYES, UNLESS OTHERWISE SPECIFIED.

WHERE SUBSOILS ARE PRESENT OR WHERE SOILS ARE NOT SUFFICIENT TO MEET THE DEFINITION OF TOPSOIL ESTABLISHED IN NOTE (1) IN AREAS TO BE PLANTED–

11) WHERE SOILS TO BE PLANTED DO NOT MEET THE DEFINITION OF TOPSOIL OR ARE DETERMINED TO BE INADEQUATE FOR PLANT GROWTH BY THE LANDSCAPE ARCHITECT DUE TO COMPACTION, HIGH CLAY CONTENT, CONTAMINATION, TEXTURE, PH, OR POOR DRAINAGE, THE CONTRACTOR SHALL EXCAVATE AREAS TO BE PLANTED TO A MINIMUM DEPTH OF 8" BELOW FINISH GRADE OF SOIL. WHERE COMPACTED SOILS ARE SUSPECTED, COMPLY WITH NOTE (15). AFTER EXCAVATION, ROTOTILL REMAINING SOIL TO A MIN. DEPTH OF 8". RAKE SMOOTH AND SLOPE TOWARD BED PERIMETER.

12) ADD 3" SOIL MIX (AS SPECIFIED IN NOTE (4)) AND INCORPORATE INTO TOP 4" OF CULTIVATED EXISTING SOIL BY ROTOTILLING. LIGHTLY COMPACT SOIL. ADD ADDITIONAL SOIL MIX TO ACHIEVE FINISH GRADE. RAKE TO ACHIEVE SPECIFIED GRADIENT(S).

13) CREATE A V-DITCH BED EDGE TO A DEPTH OF 3"

14) RAKE BED SMOOTH AT SPECIFIED GRADIENT(S), ASSURING POSITIVE DRAINAGE TO THE PERIMETER, AFTER PLANTING APPLY 2-3"AGED, DOUBLE-SHREDDED HARDWOOD MULCH FREE OF DYES, UNLESS OTHERWISE SPECIFIED.

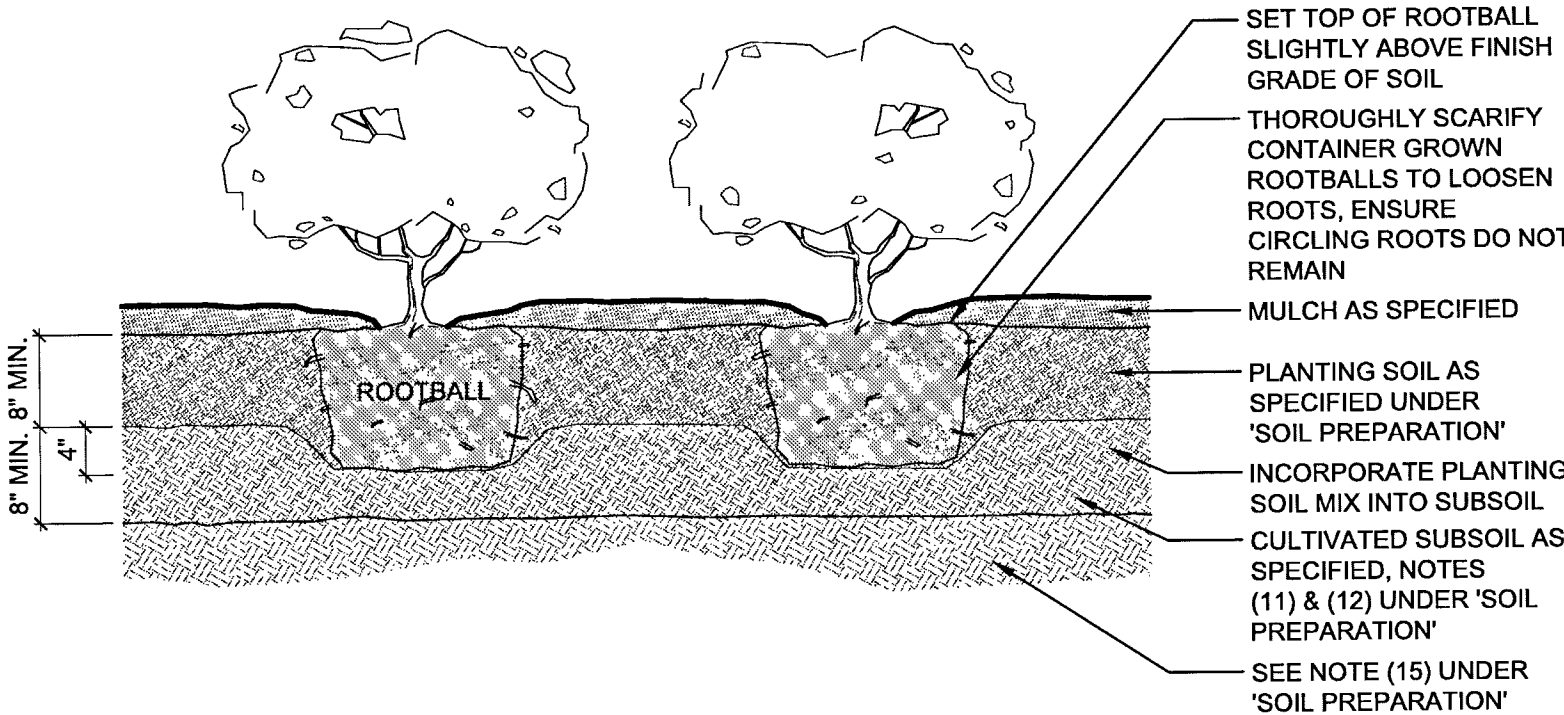
REMEDICATION OF COMPACTED SUBSOILS:

15) WHERE SUBSOILS ARE COMPACTED TO A LEVEL THAT WILL INHIBIT ROOT GROWTH OR INFILTRATION OF WATER THROUGH THE SOIL PROFILE, AS DETERMINED BY THE LANDSCAPE ARCHITECT AND DEFINED IN NOTE (16), THE CONTRACTOR SHALL FRACTURE THE SOILS BY SPREADING FULLY COMPOSTED ORGANIC MATTER (SEE NOTE 4) TO A DEPTH OF 4" UNIFORMLY ACROSS THE PORTION OF THE SITE TO BE REMEDIATED THEN DIGGING AND TURNING SOILS IN PLACE WITH A BACKHOE TO A DEPTH OF 24". LIGHTLY WORK AND FIRM TURNED SOIL WITH THE BACKHOE BUCKET. ADDITIONALLY, WHERE ACCESS IS LIMITED, SUBSOIL REMEDIATION MAY BE ACCOMPLISHED BY AUGERING 6" DIA. HOLES TO A MINIMUM DEPTH OF 18" AT 18" O.C AND BACKFILLING WITH UNAMENDED TOPSOIL. DO NOT CONDUCT REMEDIATION OPERATIONS WHEN SOIL IS WET. ALL SOIL REMEDIATION CONSULTATION AND OPERATIONS SHALL BE CONDUCTED AT THE NO ADDITIONAL EXPENSE TO THE CLIENT.

16) LEVELS OF COMPACTION SHALL BE DETERMINED BY FIELD INSPECTION, OR WHERE REQUIRED, BY A QUALIFIED SOILS CONSULTANT. ROOT LIMITING COMPACTION WILL BE DETERMINED BY MEASURING SOIL BULK DENSITY AND COMPARING TO SOIL BULK DENSITIES GENERALLY ACCEPTED TO BE ROOT LIMITING SPECIFIC TO THE SOIL'S TEXTURE AS REFERENCED IN TREES IN THE URBAN LANDSCAPE, TROWBRIDGE AND BASSUK, 2004.

1 PLANTING BED SOIL PREPARATION

SCALE : N.T.S.

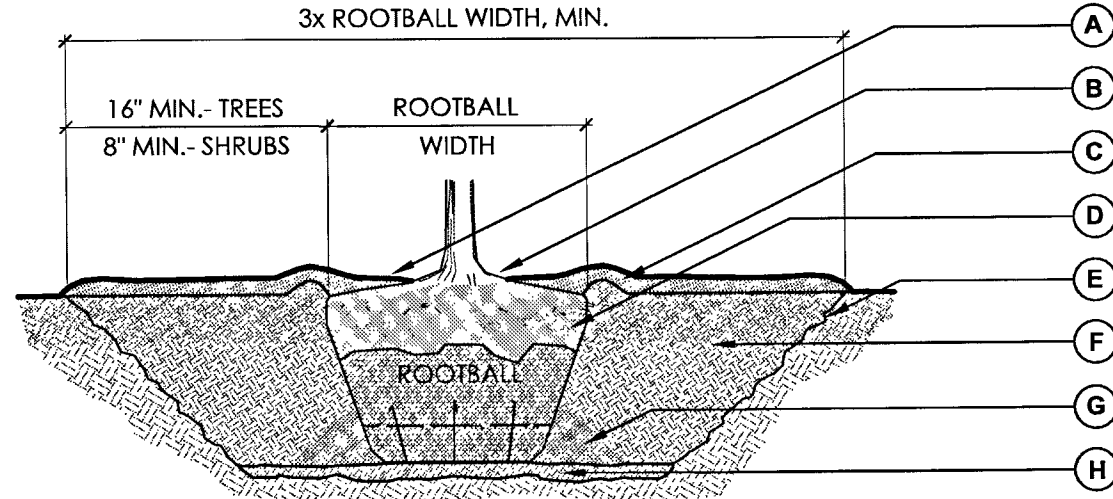


NOTES:

1) REFER TO NOTES UNDER 'INDIVIDUAL TREE OR SHRUB PLANTING PIT' AND 'TREE AND SHRUB PLANTING' DETAILS FOR GUIDELINES REGARDING PLANT QUALITY, HANDLING, INSTALLATION.

2 TYPICAL SHRUB PLANTING IN BEDS

SCALE : N.T.S.



GENERAL PLANTING PIT NOTES:

A) ADD MULCH ON TOP OF THE ROOTBALL AND PLANTING PIT, BEGINNING AT NO MORE THAN 1" DEPTH NEARTRUNK AND TAPERING TO A DEPTH OF 3" AT PLANTING PIT LIMITS, THEN TAPER TO PROPOSED FINISHED GRADE. KEEP MULCH CLEAR OF ROOT COLLAR.

B) ROOT COLLAR SHALL BE EXPOSED AND FREE OF SOIL. SET TOP OF ROOTBALL SLIGHTLY ABOVE THE SURROUNDING GRADE.

C) CREATE A SLIGHT MOUND TO DIRECT WATER TO THE ROOTBALL. BACKFILL PIT TO LEVEL OF FINISH GRADE. EXCESS BACK-FILL SHALL BE REMOVED OR, WHERE APPROVED BY THE LANDSCAPE ARCHITECT, SPREAD TO SURROUNDING AREA.

D) AFTER FINAL PLACEMENT, CUT AWAY WIRE BASKET TO A MIN. OF ½ THE DEPTH OF THE ROOTBALL. CUT ANY REMAINING WIRE GRIDS AS INDICATED. CUT AWAY AND REMOVE BURLAP, STRING, OR OTHER PACKAGING MATERIALS TO A MIN. OF ½ THE DEPTH OF THE ROOTBALL. SCARIFY CONTAINER GROWN PLANTS TO LOOSEN ROOTS.

E) TAPER SIDES OF PIT. SCARIFY THOROUGHLY TO LOOSEN SOIL.

F) BACKFILL WITH ORIGINAL SOIL FROM THE PIT EXCAVATION CULTIVATED TO CLUMPS NOT EXCEEDING 3" DIA. COMPACT BACKFILL LIGHTLY IN 6" LIFTS TO REMOVE VOIDS LARGER THAN 1". INCORPORATE 1" EVENLY DISTRIBUTED, APPROVED COMPOST INTO THE TOP 6" OF BACKFILL DURING THE FINAL LIFT.

G) TAMP SOIL FIRMLY AT THE BASE OF THE ROOTBALL TO STABILIZE.

H) SET ROOTBALL ON UNDISTURBED SOIL. WHERE HARDPAN IS PRESENT, NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO PLANTING AND SCARIFY THE BOTTOM OF THE PLANTING PIT SUFFICIENT TO BREAK THROUGH AND LOOSEN ALL HARDPAN MATERIAL AS DIRECTED. IN ANY INSTANCE WHERE TREES ARE TO BE PLANTED ON DISTURBED SOILS, BACKFILL WITH CULTIVATED ORIGINAL SOIL OR APPROVED MATERIAL AS DIRECTED AND COMPACT TO A LEVEL SUFFICIENT TO SUPPORT THE WEIGHT OF THE ROOTBALL WHEN THE BACKFILL SOIL IS AT FIELD CAPACITY.

SUPPLEMENTAL TREE OR SHRUB PLANTING NOTES:

1) PRIOR TO PLANTING, THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IF FIELD CONDITIONS AND/OR SOIL CHARACTERISTICS ARE NOT COMPATIBLE WITH THESE PLANTING CRITERIA OR WHERE CONDITIONS RAISE CONCERNS REGARDING PLANT SURVIVABILITY OR WARRANTY.

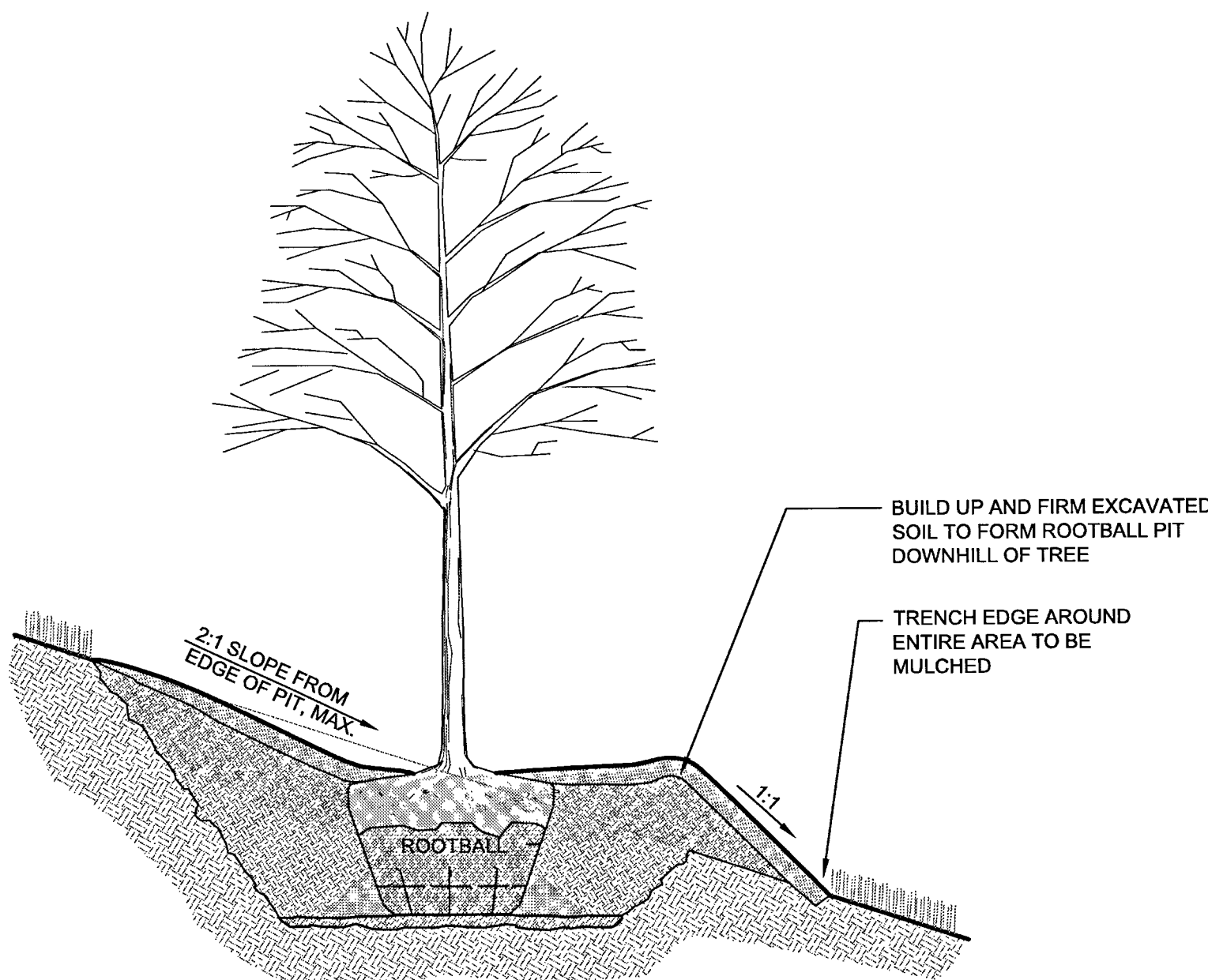
2) THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF ANY PLANT DAMAGE INCURRED DURING SHIPPING OR THE PLANTING PROCESS.

3) WATER THOROUGHLY IMMEDIATE AFTER PLANTING SUFFICIENT TO SETTLE PLANTING PIT BACKFILL.

4) PLANTING SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT NOT LESS THAN 24 HOURS PRIOR TO INSTALLATION. **PLANT INSTALLATIONS THAT DEViate FROM THESE CRITERIA SHALL BE REJECTED AND REPLACED AT THE CONTRACTOR'S EXPENSE, UNLESS PRIOR APPROVAL IS GRANTED BY THE LANDSCAPE ARCHITECT.**

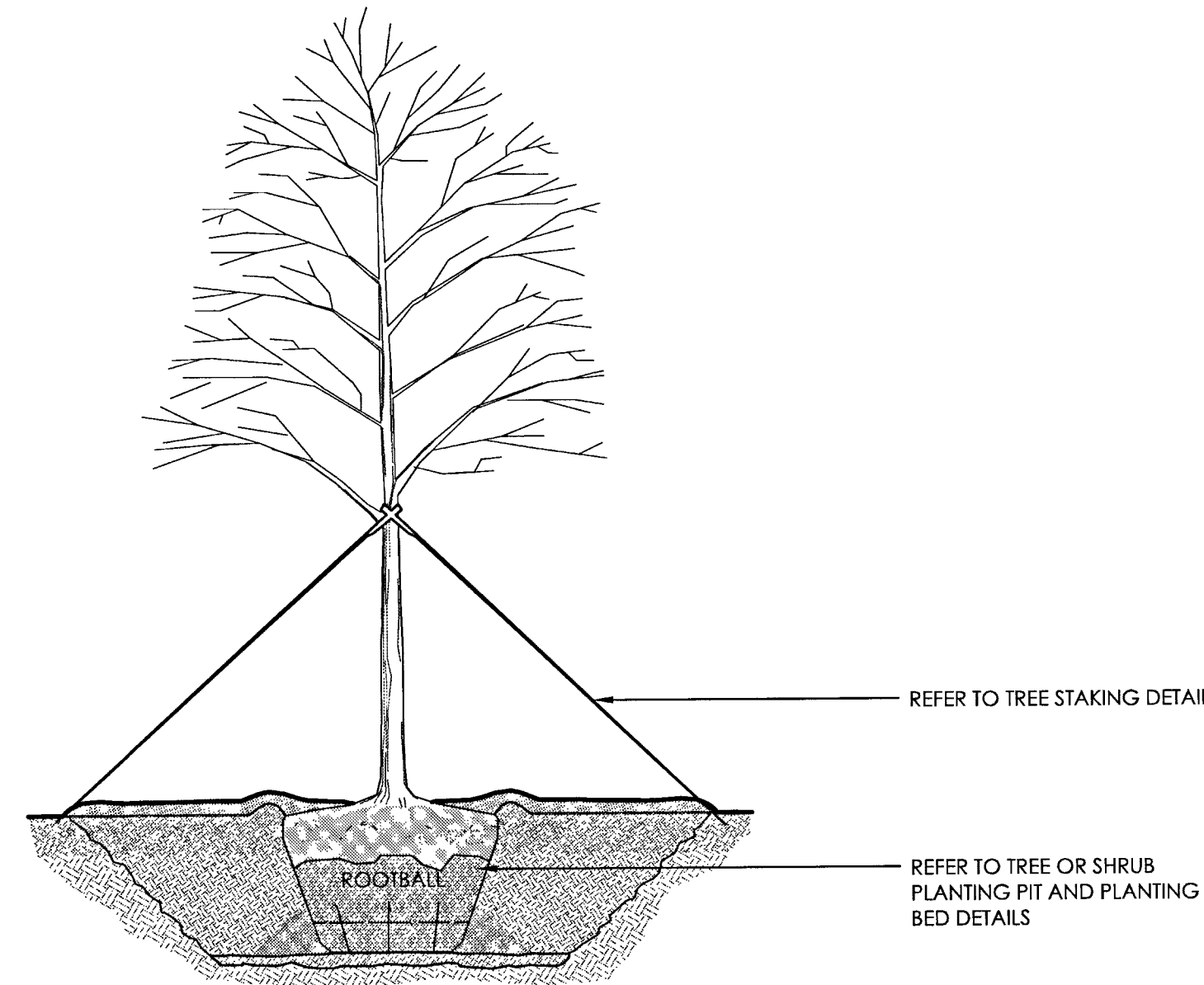
3 TREE OR SHRUB PLANTING PIT

SCALE : N.T.S.



4 PLANTING ON A SLOPE

SCALE : N.T.S.



GENERAL TREE OR SHRUB PLANTING NOTES:

1) SET PLANT PLUMB.

2) ALL PRUNING SHALL BE RESTRICTED TO THE REMOVAL OF DEAD OR BROKEN BRANCHES AND SHALL BE PERFORMED ONLY UNDER THE SUPERVISION OF THE LANDSCAPE ARCHITECT OR PROJECT ARBORIST.

3) ALL PLANTS SHALL CONFORM TO MINIMUM STANDARDS SET FORTH IN THE MOST CURRENT ADDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK. ADDITIONALLY, PLANTS SHALL BE IN GOOD, VIGOROUS GROWING CONDITION, FREE OF UNNECESSARY INJURY. ROOT COLLARS SHALL BE VISIBLE ABOVE THE SOIL LINE OF THE ROOTBALL. TREES SHALL NOT EXHIBIT CODOMINANT LEADERS, WITH THE EXCEPTION OF MULTI-STEM SPECIMENS AND CERTAIN DECURRENT SPECIES– SUBJECT TO APPROVAL OF THE LANDSCAPE ARCHITECT. CONTAINER GROWN PLANTS SHALL NOT BE ROOT-BOUND. SUB-STANDARD PLANTS SHALL BE REJECTED.

4) WRAP TREES ONLY AS DIRECTED BY THE LANDSCAPE ARCHITECT.

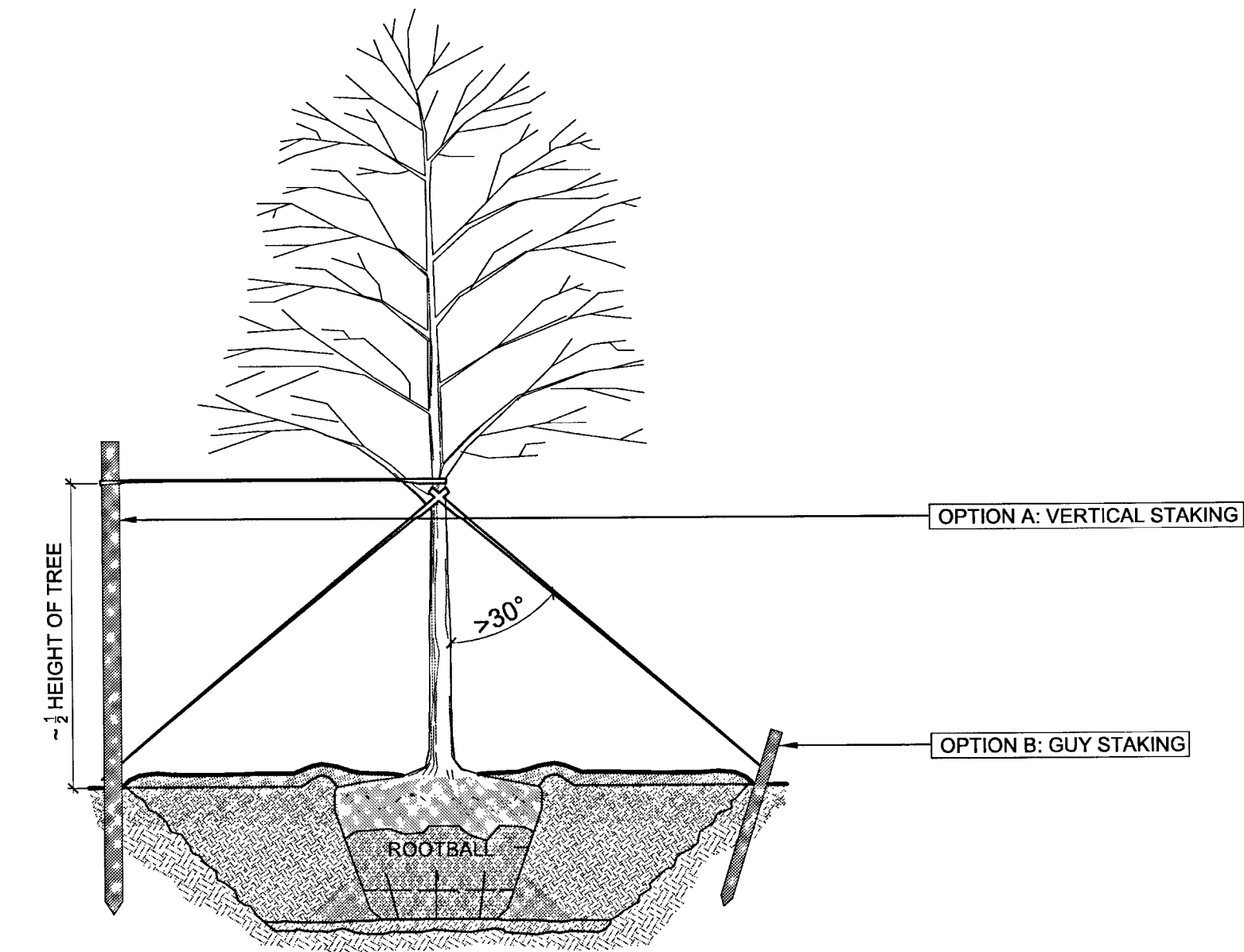
5) FOR SMOOTH BARK SPECIES, MARK THE NORTH SIDE IN THE NURSERY AND ALIGN THAT SIDE TO NORTH IN THE FIELD.

6) ROOTBALLS WRAPPED IN SYNTHETIC BURLAP OR OTHER NON-BIODEGRADABLE MATERIAL SHALL BE REJECTED.

7) WHERE B&B PLANTS ARE SPECIFIED, CONTAINER GROWN PLANTS SHALL NOT BE SUBSTITUTED WITHOUT APPROVAL OF THE LANDSCAPE ARCHITECT.

5 TYPICAL TREE PLANTING

SCALE : N.T.S.



GENERAL STAKING NOTES:

1) TREES SHALL BE STAKED ONLY WHEN INDICATED BY SITE CONDITIONS AND/OR PLANT CHARACTERISTICS. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF CONDITIONS THAT NECESSITATE STAKING OR THAT COMPROMISE PLANT STABILITY, SURVIVABILITY, AND/OR CONTRACTOR'S WARRANTY. UPON APPROVAL OF THE LANDSCAPE ARCHITECT, NECESSARY STAKING SHALL BE INSTALLED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CLIENT.

TREE STAKING OPTIONS:

UPON APPROVAL OF THE LANDSCAPE ARCHITECT, STAKING SHALL BE INSTALLED AS FOLLOWS:

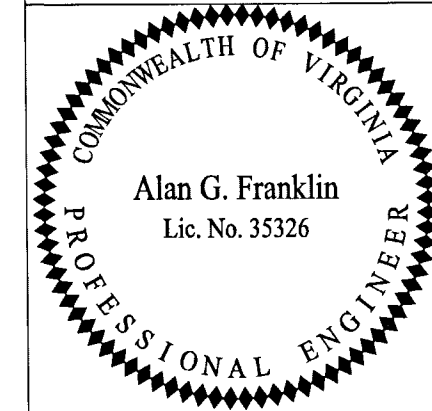
OPTION A: VERTICAL STAKING– VERTICAL OAK STAKES TO BE DRIVEN IN OUTSIDE THE LIMITS OF THE TREE PIT. (2) STAKES AND GUYS PER TREE. SET STAKES AT 180" AROUND TREE PIT. GUY WITH 'ARBORTIE' OR EQUIVALENT WOVEN STRAPPING DESIGN FOR TREE STAKING. ATTACH GUY MATERIAL IN A SLACK LOOP AT THE TRUNK AND PULL SLIGHTLY TAUT TO THE STAKE TO SECURE.

OPTION B: GUY STAKING– (3) 18" OAK STAKES AND GUYS PER TREE. SET STAKES AT AN ANGLE IN UNDISTURBED SOIL AT 120" AROUND THE TREE PIT. ATTACH ARBORTIE OR EQUIVALENT GUY MATERIAL IN A SLACK LOOP AT THE TRUNK AND PULL SLIGHTLY TAUT TO THE STAKE TO SECURE.

6 TREE STAKING

SCALE : N.T.S.

waterstreetstudio
landscape architecture + civil engineering
418 E Main Street - 410-995-8777
Charlottesville, Va 22902



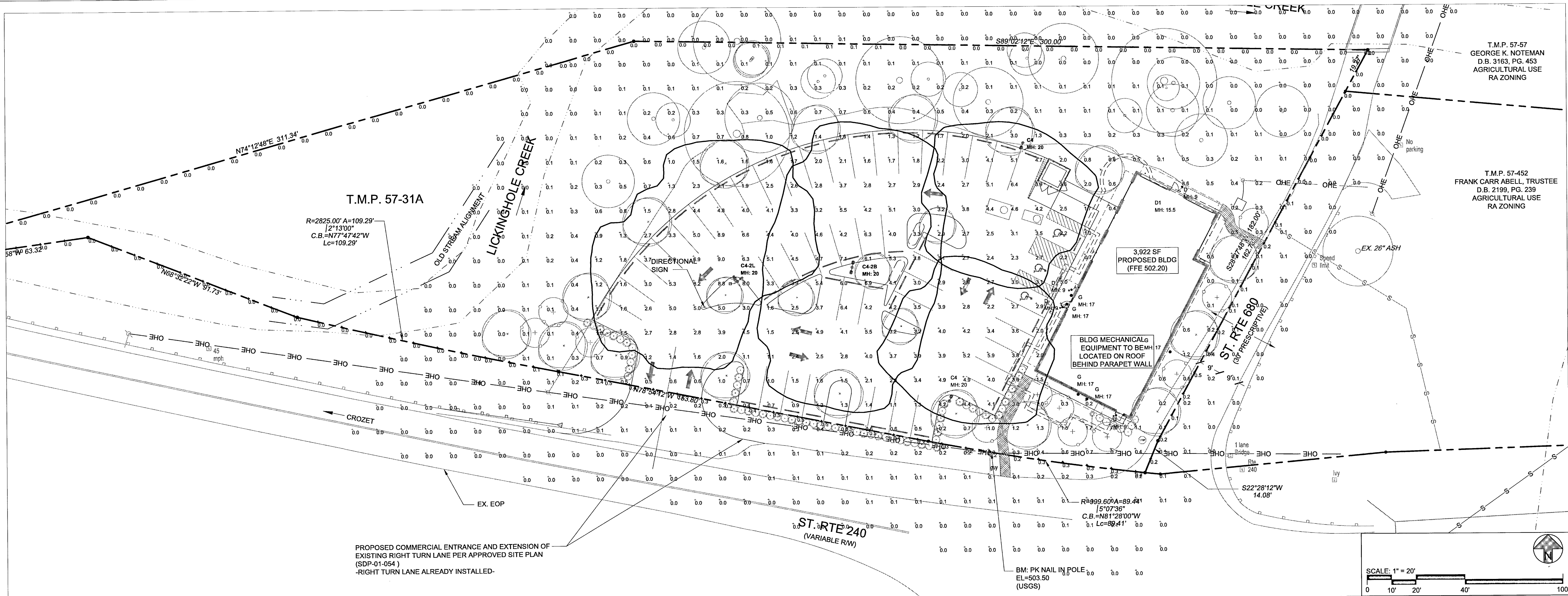
PLANTING DETAILS
FINAL SITE PLAN/ARB SUBMITTAL

MECHUM'S TRESTLE - ALBEMARLE COUNTY, VIRGINIA

01.25.16 - ACSA/RWSA & CO. COMMENTS
01.21.16 - ARB LABEL CORRECTION
12.08.15 - ARB COMMENTS

REVISIONS

4/12/16
7



GENERAL LIGHTING NOTES

- CONTRACTOR SHALL CONFIRM CONSISTENCY OF MATERIAL QUANTITY BETWEEN PLANS AND LIGHTING SCHEDULE AND REPORT ANY DISCREPANCIES TO LANDSCAPE ARCHITECT IMMEDIATELY. ANY REQUESTS FOR LIGHTING SUBSTITUTIONS OR CHANGES MUST BE SUBMITTED IN WRITING TO THE LANDSCAPE ARCHITECT FOR SUBSEQUENT REVIEW AND APPROVAL BY THE LOCALITY.
- DEVIATIONS OR SUBSTITUTIONS WITHOUT APPROVAL BY THE LOCALITY ARE UNACCEPTABLE.
- LIGHTING CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN OF EXTERIOR ELECTRICAL CIRCUITRY TO SUPPORT SITE LIGHTING SYSTEM. ALL LINES RUNNING UNDER PAVEMENT OF ANY TYPE SHALL BE PLACED WITHIN SCHEDULE 40 OR SDR 35 PVC CONDUIT.
- LIGHTING CONTRACTOR SHALL COORDINATE WITH PROJECT MEP TO ENSURE PROPER SIZING OF ELECTRICAL TRANSFORMERS, ELECTRICAL PANELS, ETC. TO SUPPORT SITE LIGHTING SYSTEM.
- FINISH OF FIXTURES SHALL BE BLACK UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS.
- LIGHTS SHALL BE CONTROLLED EITHER BY PHOTOCELL(S) OR TIMER(S) OR A COMBINATION THEREOF.
- POLES TO BE LOCATED IN ANY VEHICULAR TRAVELWAY OR PARKING AREA SHALL BE MOUNTED ON A 2-FOOT-HIGH CONCRETE PIER. POLE HEIGHTS SPECIFIED ON PLANS ACCOUNT FOR CONCRETE BASES WHERE APPLICABLE.
- JUNCTION BOXES AND OTHER SIMILAR FIXTURES SHALL BE WATERPROOF. ELECTRICAL OUTLETS TO BE LOCATED ON FIXTURES SHALL BE GFI WITH WEATHERPROOF COVERS.
- OUTDOOR LUMINAIRES SHALL BE ARRANGED OR SHIELDED TO REFLECT LIGHT AWAY FROM ADJOINING RESIDENTIAL DISTRICTS AND ROADWAYS. ALL SIGN LIGHTING SHALL EMIT LESS THAN 3,000 LUMENS.
- SPILLOVER OF LIGHT FROM EXTERIOR LIGHTING ONTO PUBLIC ROADS AND ADJACENT PROPERTY SHALL NOT EXCEED ONE-HALF (1/2) FOOT-CANDLE UNLESS SPECIFICALLY AUTHORIZED BY THE LOCALITY.
- ALL PROJECTS WITH EXTERIOR LIGHTING NOT INTENDED FOR 24-HOUR OPERATION SHALL HAVE INSTALLED EITHER AN AUTOMATIC SWITCHING OR PHOTOCELL CONTROL SYSTEM. IF AN AUTOMATIC SWITCHING SYSTEM IS PREFERRED, THEN IT SHALL HAVE THE FOLLOWING FEATURES: A SEVEN-DAY OPERATION, ASTRONOMIC CONTROL CAPABILITY FOR SEASONAL ADJUSTMENT, AND AT LEAST A FOUR-HOUR BACKUP. CONTRACTOR SHALL INSTALL THE WATT STOPPER/LEGRAND SERIES LP PEANUT LIGHTING CONTROL PANEL; 1.800.879.8585 (OR EQUAL) SUITABLE TO THE PROJECT AND CAPABLE OF MEETING THE ABOVE REQUIREMENTS.

Luminaire Schedule							
Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Lum. Lumens	[MANUFAC] Description
	2	C4	SINGLE	22000	1.000	11861	SPAULDING LIGHTING CR1-P25-H4P
	1	C4-2B	BACK-BACK	22000	1.000	11861	SPAULDING LIGHTING CR1-P25-H4P
	1	C4-2L	2 @ 90 DEGREES	22000	1.000	11861	SPAULDING LIGHTING CR1-P25-H4P
	4	D	SINGLE	N.A.	1.000	1108	PRESCOLITE LC6LED120-6LCLED535K8
	15	D1	SINGLE	N.A.	1.000	531	LSGC LS-GLP4-WW-120-WH-S1
	5	G	SINGLE	N.A.	1.000	858	Cree /H/LITE MFG H18110-B1-9LED235-F-BCM

All C4 fixtures to have flat glass lens shown as "F" designation in the catalog.
Each outdoor luminaire equipped with a lamp that emits 3,000 or more initial lumens shall be a full cutoff luminaire.
The spillover of lighting from luminaires onto public roads and property in residential or rural areas zoning districts shall not exceed one half footcandle.

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Property line_adj property	Illuminance	Fc	0.01	0.1	0.0	N.A.	N.A.
Property line_roadway	Illuminance	Fc	0.15	0.5	0.0	N.A.	N.A.
Site	Illuminance	Fc	1.04	12.7	0.0	N.A.	N.A.
Parking pavement	Illuminance	Fc	3.28	9.0	0.3	10.93	30.00

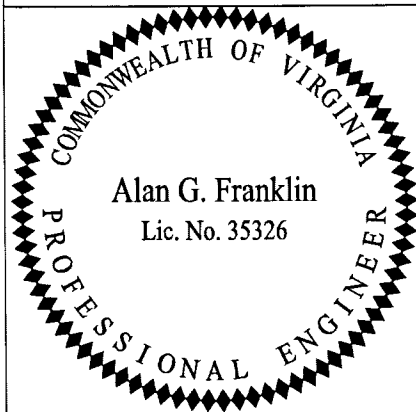
Prepared by:
LIGHTING VIRGINIA CENTRAL
4000-2 Southlake Blvd.
Richmond, VA 23236
Tel: 804-379-7777
www.lightingvirginia.com

MH = mounting height in FEET

NOTES:

- NO ALTERATIONS OR MODIFICATIONS SHALL BE MADE TO THIS PLAN WITHOUT THE PERMISSION OF LIGHTING VIRGINIA CENTRAL, ADAMS PARNELL, LLC.
- THE OUTPUT ON THIS PHOTOMETRIC LAYOUT IS SPECIFIC TO THE MANUFACTURER AND CATALOG NUMBERS LISTED IN THE LUMINAIRE SCHEDULE. SUBSTITUTIONS OR DEVIATIONS FROM THIS PLAN MAY INCUR SIGNIFICANTLY DIFFERENT RESULTS. ANY SUBSTITUTIONS MUST RECEIVE ENGINEER AND ARCHITECT APPROVAL. REVIEW COSTS, REWORKED PHOTOMETRIC LAYOUTS, PRODUCT SUBMITTALS AND A FULL SET OF ILLUMINANCE REPORTS WILL SOLELY BE THE RESPONSIBILITY OF ANY CONTRACTING FIRM MAKING A SUBSTITUTION, AND MUST COMPLY WITH DESIGN CRITERIA AND WITH ANY APPLICABLE JURISDICTIONAL CODES.
- SITE DETAILS PROVIDED HEREON ARE REPRODUCED ONLY AS A VISUALIZATION AID. FIELD DEVIATIONS MAY SIGNIFICANTLY AFFECT PREDICTED PERFORMANCE. PRIOR TO INSTALLATION, CRITICAL SITE INFORMATION (POLE LOCATIONS, ORIENTATION, MOUNTING HEIGHT, ETC.) SHOULD BE COORDINATED WITH THE CONTRACTOR AND/OR SPECIFIER RESPONSIBLE FOR THE PROJECT.
- LUMINAIRE DATA IS TESTED TO INDUSTRY STANDARDS UNDER LABORATORY CONDITIONS AND SUPPLIED BY OTHERS TO LIGHTING VIRGINIA. OPERATING VOLTAGE AND NORMAL MANUFACTURING TOLERANCES OF LAMP, BALLAST, AND LUMINAIRE MAY AFFECT FIELD RESULTS.
- CONFORMANCE TO FACILITY CODE AND OTHER LOCAL REQUIREMENTS IS THE RESPONSIBILITY OF THE OWNER AND/OR THE OWNER'S REPRESENTATIVE.

waterstreetstudio
landscape architecture | civil engineering
418 F Main Street | Charlottesville, VA 22902



09.04.15

MECHUM'S TRESTLE - ALBEMARLE COUNTY, VIRGINIA

PHOTOMETRIC PLAN

FINAL SITE PLAN/ARB SUBMITTAL

01.25.16 - ACS/ARWSA & CO. COMMENTS

01.21.16 - ARB LABEL CORRECTION

12.08.15 - ARB COMMENTS

REVISIONS

4/12/16



[illegible][illegible]

Submitted by Lighting-Virginia-Central

LIGHTING
VIRGINIA
CENTRAL

Job Name:
Metchum Trestle Building

Catalog Number:
SNS-20-40-11-AB-PC(X)-DM19

Type:
4 COLE

Notes:

L.V. CENTRAL# 16336

Area Lighting Poles - Square Non-Tapered

Catalog Pole Height (ft.)	Pole Height (m)	Weight (lb.)	Capacity (lb.)	Short Span (ft.)	Base Plate Width (in.)	Bolt Circle (in.)	Anchor Bolt Dia. (in.)	Light Fixture Capacities							
								80' (24m) High				60' (18m) High			
								EPW (Watts)	EPW (Watts)	EPW (Watts)	EPW (Watts)	EPW (Watts)	EPW (Watts)	EPW (Watts)	EPW (Watts)
SNS-10-40-10-AB	10	75	11	4.0	8.25	8.0-9.0	0.75 x 17 x 3	4,007	5,010	6,013	7,016	2,316	5,595	159	4,792
SNS-16-40-11-AB	15	115	11	4.0	8.25	8.0-9.0	0.75 x 17 x 3	4,007	5,010	6,013	7,016	2,316	5,595	120	4,250
SNS-20-40-15-AB	20	140	11	4.0	8.25	8.0-9.0	0.75 x 17 x 3	4,007	5,010	6,013	7,016	2,316	5,595	87	3,813
SNS-25-40-18-AB	25	180	11	4.0	8.25	8.0-9.0	0.75 x 17 x 3	4,007	5,010	6,013	7,016	2,316	5,595	67	3,413
SNS-30-40-21-AB	30	215	11	5.0	11	10-12	0.75 x 17 x 3	4,007	5,010	6,013	7,016	2,316	5,595	110	4,275
SNS-35-40-24-AB	35	245	11	5.0	11	10-12	0.75 x 17 x 3	4,007	5,010	6,013	7,016	2,316	5,595	86	3,813
SNS-40-40-27-AB	40	275	11	5.0	11	10-12	0.75 x 17 x 3	4,007	5,010	6,013	7,016	2,316	5,595	67	3,413
SNS-45-40-30-AB	45	305	11	5.0	11	10-12	0.75 x 17 x 3	4,007	5,010	6,013	7,016	2,316	5,595	50	3,125
SNS-50-40-33-AB	50	335	11	5.0	11	10-12	0.75 x 17 x 3	4,007	5,010	6,013	7,016	2,316	5,595	37	2,813
SNS-55-40-36-AB	55	365	11	5.0	11	10-12	0.75 x 17 x 3	4,007	5,010	6,013	7,016	2,316	5,595	27	2,500
SNS-60-40-39-AB	60	395	11	5.0	11	10-12	0.75 x 17 x 3	4,007	5,010	6,013	7,016	2,316	5,595	20	2,250
SNS-65-40-42-AB	65	425	11	5.0	11	10-12	0.75 x 17 x 3	4,007	5,010	6,013	7,016	2,316	5,595	15	2,063
SNS-70-40-45-AB	70	455	11	5.0	11	10-12	0.75 x 17 x 3	4,007	5,010	6,013	7,016	2,316	5,595	11	1,906
SNS-75-40-48-AB	75	485	11	5.0	11	10-12	0.75 x 17 x 3	4,007	5,010	6,013	7,016	2,316	5,595	8	1,778
SNS-80-40-51-AB	80	515	11	5.0	11	10-12	0.75 x 17 x 3	4,007	5,010	6,013	7,016	2,316	5,595	6	1,667
SNS-85-40-54-AB	85	545	11	5.0	11	10-12	0.75 x 17 x 3	4,007	5,010	6,013	7,016	2,316	5,595	5	1,625
SNS-90-40-57-AB	90	575	11	5.0	11	10-12	0.75 x 17 x 3	4,007	5,010	6,013	7,016	2,316	5,595	4	1,583
SNS-95-40-60-AB	95	605	11	5.0	11	10-12	0.75 x 17 x 3	4,007	5,010	6,013	7,016	2,316	5,595	3	1,541
SNS-100-40-63-AB	100	635	11	5.0	11	10-12	0.75 x 17 x 3	4,007	5,010	6,013	7,016	2,316	5,595	2	1,500

Notes: From Spacing: This table should be used for a pole section design. From Spacing: This

Submitted by Lighting Virginia, Inc.

Lighting
Virginia
Inc.

Job Name:
Machum Trastie Building

Catalog Number:
SNS-20-40-11-AB-PC(X)-DM28

Type:
C4-2B Pole

LV-CENTRAL 16-1035

Area Lighting Poles - Square Not Tapered

Catalog Number	Pole Height (ft)	Weight (lbs)	Class	Shall Size (in)	Base Plate Width (in)	Base Plate Depth (in)	Base Bolt Circle Dia (in)	Anchor Bolt Dia (in)	Anchor Bolt Spacing (in)	Max Loading Capacities			
										80 (mm) (ft)	90 (mm) (ft)	100 (mm) (ft)	110 (mm) (ft)
SNS-20-40-11-AB	10	75	11	4.0	8.25	8.0-8.0	8.75 x 17.3	4.000	5.00	20	21	22	23
SNS-20-40-11-AB	15	110	11	4.0	8.25	8.0-8.0	8.75 x 17.3	4.000	5.00	20	21	22	23
SNS-20-40-11-AB	20	150	11	4.0	8.25	8.0-8.0	8.75 x 17.3	4.000	5.00	20	21	22	23
SNS-20-40-11-AB	25	190	11	4.0	8.25	8.0-8.0	8.75 x 17.3	4.000	5.00	20	21	22	23
SNS-20-50-11-AB	20	105	11	5.0	10	10	10	10	10	25	26	27	28
SNS-20-40-11-AB	25	170	11	4.0	8.25	8.0-8.0	8.75 x 17.3	4.000	5.00	20	21	22	23
SNS-20-40-11-AB	30	245	7	4.0	8.25	8.0-8.0	8.75 x 17.3	4.000	5.00	20	21	22	23
SNS-20-50-11-AB	25	225	11	5.0	10	10	10	10	10	25	26	27	28
SNS-20-50-11-AB	30	300	7	5.0	10	10	10	10	10	25	26	27	28
SNS-30-40-7-AB	30	291	7	5.0	8.25	8.0-8.0	8.75 x 17.3	4.000	5.00	20	21	22	23
SNS-30-50-11-AB	30	265	11	5.0	10	10	10	10	10	25	26	27	28
SNS-30-50-11-AB	35	340	7	5.0	10	10	10	10	10	25	26	27	28
SNS-30-60-7-AB	30	320	7	6.0	12.5	11	13 x 34	4.75 x 17.3	4.000	5.00	20	21	22
SNS-30-50-11-AB	35	400	7	6.0	11	10	10	10	10	25	26	27	28
SNS-30-50-11-AB	40	480	7	6.0	12.5	11	13 x 34	4.75 x 17.3	4.000	5.00	20	21	22
SNS-30-60-7-AB	40	560	7	6.0	12.5	11	13 x 34	4.75 x 17.3	4.000	5.00	20	21	22
SNS-30-60-7-AB	45	640	7	6.0	12.5	11	13 x 34	4.75 x 17.3	4.000	5.00	20	21	22
SNS-30-60-7-AB	50	720	7	6.0	12.5	11	13 x 34	4.75 x 17.3	4.000	5.00	20	21	22

Notes:
The pole shall be a new section design developed from standard 414 (per 10.1165) or greater (10.1700) steel. Each section shall be fabricated from high strength low alloy steel conforming to AISC 360 Grade 50, with minimum yield strength of 40,000 psi. Each pole shall have a 1/4" thick wall and shall also be square in cross-section.

Base Plate:
The base plate shall be fabricated from a structural quality rolled carbon steel plate made to standard ASTM A-36 with the minimum tensile strength of 50,000 psi. The base plate shall have the plate width and be substantially wider than the pole. The base plate shall be 1/4" thick.

Anchor Bolts:
Anchor bolts are fabricated from a structural quality rolled carbon steel plate made to standard ASTM A-36 with the minimum tensile strength of 50,000 psi. The anchor bolts shall be 1/2" diameter and 10" long. The anchor bolts shall be 1/2" diameter and 10" long. The anchor bolts shall be 1/2" diameter and 10" long.

Welds:
All welds shall be made in accordance with the AWS D1.1 specification for structural steel welding. All welds shall be made in accordance with the AWS D1.1 specification for structural steel welding. All welds shall be made in accordance with the AWS D1.1 specification for structural steel welding.

Paint:
The pole shall be painted with a two-part epoxy paint system. The paint shall be applied in two coats. The paint shall be applied in two coats. The paint shall be applied in two coats.

Access:
The pole shall be provided with a removable access door. The access door shall be 18" x 18" and shall be provided with a lock. The access door shall be 18" x 18" and shall be provided with a lock.

Shipping:
The pole shall be shipped in two sections. The sections shall be 10' and 10' long. The sections shall be 10' and 10' long. The sections shall be 10' and 10' long.

Finish:
All poles, mounting brackets and luminaires are furnished with a coating of either red oxide primer, zinc primer, powder coat or epoxy paint. The finish shall be as specified in the project specifications.

Installation:
The pole shall be installed in accordance with the manufacturer's instructions. The pole shall be installed in accordance with the manufacturer's instructions. The pole shall be installed in accordance with the manufacturer's instructions.

Warranty:
The pole

Designed by Lighting Vehicle Group



Company Name: Mechum Treesto Building
Address: 10000

Catalog Number: SNS-20-40-11-AB-PC(XX)-DM29
Notes:
L.V. CENTRAL 1105-1005

Type: 42-ZL POLE
L.V. CENTRAL 1105-1005

Area Lighting Poles - Square Non-Spacer

Catalog Number	Pole Height (ft)	Wind Speed (mph)	Base Size (ft)	Base Plate Wt (lbs)	Base Plate Ht (in)	Bolt Circle (in)	Max Allowable Capacities							
							10' height	20' height	30' height	40' height	50' height	60' height	70' height	80' height
SNS-10-40-11-AB	10	75	11	4.0	8.25	8.0-8.0	0.75 x 11 x 3	4.00/5.50	5.00/6.50	5.00/6.50	7.00/8.25	7.00/8.25	7.00/8.25	7.00/8.25
SNS-15-40-11-AB	15	110	11	4.0	8.25	8.0-8.0	0.75 x 11 x 3	4.00/5.50	5.00/6.50	5.00/6.50	7.00/8.25	7.00/8.25	7.00/8.25	7.00/8.25
SNS-20-40-11-AB	20	150	11	4.0	8.25	8.0-8.0	0.75 x 11 x 3	4.00/5.50	5.00/6.50	5.00/6.50	7.00/8.25	7.00/8.25	7.00/8.25	7.00/8.25
SNS-25-40-11-AB	25	185	7	4.0	8.25	8.0-8.0	0.75 x 11 x 3	3.00/5.00	4.00/5.50	4.00/5.50	5.00/6.50	5.00/6.50	5.00/6.50	5.00/6.50
SNS-30-40-11-AB	30	195	7	4.0	8.25	8.0-8.0	0.75 x 11 x 3	3.00/5.00	4.00/5.50	4.00/5.50	5.00/6.50	5.00/6.50	5.00/6.50	5.00/6.50
SNS-35-40-11-AB	35	210	7	4.0	8.25	8.0-8.0	0.75 x 11 x 3	3.00/5.00	4.00/5.50	4.00/5.50	5.00/6.50	5.00/6.50	5.00/6.50	5.00/6.50
SNS-40-40-11-AB	40	225	11	5.0	11	10-12	0.75 x 17 x 3	4.00/5.50	5.00/6.50	5.00/6.50	7.00/8.25	7.00/8.25	7.00/8.25	7.00/8.25
SNS-45-40-11-AB	45	240	11	5.0	11	10-12	0.75 x 17 x 3	4.00/5.50	5.00/6.50	5.00/6.50	7.00/8.25	7.00/8.25	7.00/8.25	7.00/8.25
SNS-50-40-11-AB	50	255	7	6.0	11	10-12	0.75 x 17 x 3	4.00/5.50	5.00/6.50	5.00/6.50	7.00/8.25	7.00/8.25	7.00/8.25	7.00/8.25
SNS-55-40-11-AB	55	270	7	6.0	11	10-12	0.75 x 17 x 3	4.00/5.50	5.00/6.50	5.00/6.50	7.00/8.25	7.00/8.25	7.00/8.25	7.00/8.25
SNS-60-40-11-AB	60	285	11	6.0	11	10-12	0.75 x 17 x 3	4.00/5.50	5.00/6.50	5.00/6.50	7.00/8.25	7.00/8.25	7.00/8.25	7.00/8.25
SNS-65-40-11-AB	65	300	7	6.0	11	10-12	0.75 x 17 x 3	4.00/5.50	5.00/6.50	5.00/6.50	7.00/8.25	7.00/8.25	7.00/8.25	7.00/8.25
SNS-70-40-11-AB	70	315	7	6.0	11	10-12	0.75 x 17 x 3	4.00/5.50	5.00/6.50	5.00/6.50	7.00/8.25	7.00/8.25	7.00/8.25	7.00/8.25
SNS-75-40-11-AB	75	330	7	6.0	11	10-12	0.75 x 17 x 3	4.00/5.50	5.00/6.50	5.00/6.50	7.00/8.25	7.00/8.25	7.00/8.25	7.00/8.25
SNS-80-40-11-AB	80	345	7	6.0	11	10-12	0.75 x 17 x 3	4.00/5.50	5.00/6.50	5.00/6.50	7.00/8.25	7.00/8.25	7.00/8.25	7.00/8.25
SNS-85-40-11-AB	85	360	7	6.0	11	10-12	0.75 x 17 x 3	4.00/5.50	5.00/6.50	5.00/6.50	7.00/8.25	7.00/8.25	7.00/8.25	7.00/8.25
SNS-90-40-11-AB	90	375	7	6.0	11	10-12	0.75 x 17 x 3	4.00/5.50	5.00/6.50	5.00/6.50	7.00/8.25	7.00/8.25	7.00/8.25	7.00/8.25
SNS-95-40-11-AB	95	390	7	6.0	11	10-12	0.75 x 17 x 3	4.00/5.50	5.00/6.50	5.00/6.50	7.00/8.25	7.00/8.25	7.00/8.25	7.00/8.25
SNS-100-40-11-AB	100	405	7	6.0										

[illegible]

Submitted by Lighting Village-Central Lighting Village 10000 10000	Job Name: Medium Trestle Building Notes:	Catalog Number: LCELED120-6LCELED535K38 Notes:	Type: D LV-CENTRAL-10000																																																																																																																
PHOTOMETRIC ANALYSIS																																																																																																																			
DRIVER DATA Input Voltage 120, 277V Input Frequency 60/50 Hz Input Current 0.142 (120V) 0.161 (277V) Input Power 17.5W Constant Current Output 700mA Power Factor 10.5% THD <25% LED Filing Port 14, Class A Operating Temperature 110°F Dimming	ALCLED535K38 120, 277V 50/60 Hz 0.179 (120V) 0.196 (277V) 31.2W 700mA 10.5% <20% Port 15, Class A 30°C α +23°C 0.10V	ALCLED570K38 120, 277V 50/60 Hz 0.157 (120V) 0.174 (277V) 26.0W 700mA 10.5% <5% Port 4, Class A 30°C α +23°C 0.10V	Lenses, Multiplier, Table Parameters for the LCELED are published based on a nominal 35000 Kalfs temperature. This table may be used to approximate the lumen values or different lumen temperatures. Power consumption will vary the same. <table> <tr> <td>3500 Kalfs</td><td>1.14</td></tr> <tr> <td>4000 Kalfs</td><td>1.09</td></tr> <tr> <td>5500 Kalfs</td><td>1.00</td></tr> <tr> <td>5000 Kalfs</td><td>1.00</td></tr> <tr> <td>2700 Kalfs</td><td>0.91</td></tr> </table>	3500 Kalfs	1.14	4000 Kalfs	1.09	5500 Kalfs	1.00	5000 Kalfs	1.00	2700 Kalfs	0.91																																																																																																						
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Over-voltage, over-current, short-circuit protected When operating in full mode, the fixture will deliver approximately 95% of the published full lumen output. LED LIGHT SPECIFICATIONS LED Light Source: 3500K, 80+ CB Beam Spread: 17.5W Fixture Dimensions: 110°F Power Efficiency: 65 Spotting Circuits: 1:1 CANDIDA DISTRIBUTION DIG CANDIDA <table> <tr><td>0</td><td>7.69</td></tr> <tr><td>5</td><td>727</td></tr> <tr><td>15</td><td>713</td></tr> <tr><td>25</td><td>768</td></tr> <tr><td>35</td><td>464</td></tr> <tr><td>45</td><td>190</td></tr> <tr><td>55</td><td>16</td></tr> <tr><td>65</td><td>3</td></tr> <tr><td>75</td><td>1</td></tr> <tr><td>85</td><td>0</td></tr> <tr><td>95</td><td>0</td></tr> </table> Test No. 9439 Tested at 25°C Ambient in accordance to IESNA LM-79-2008	0	7.69	5	727	15	713	25	768	35	464	45	190	55	16	65	3	75	1	85	0	95	0	ZONAL LUMEN SUMMARY <table> <tr> <th>ZONE</th> <th>LM-40-0</th> <th>LM-40-1</th> </tr> <tr> <td>040</td> <td>1194</td> <td></td> </tr> <tr> <td>046</td> <td>1107</td> <td></td> </tr> <tr> <td>051</td> <td>0</td> <td></td> </tr> <tr> <td>056</td> <td>1107</td> <td></td> </tr> </table> LUMINANCE DATA IN CANDELA/60° METRE <table> <tr> <th>Angle in Vertical</th> <th>Average - °</th> </tr> <tr> <td>2.5°</td> <td>1563</td> </tr> <tr> <td>5.0°</td> <td>424</td> </tr> <tr> <td>7.5°</td> <td>231</td> </tr> <tr> <td>10.0°</td> <td>65°</td> </tr> </table> PERCENTAGES OF UTILIZATION <table> <tr> <th>Zone</th> <th>LM-40-0</th> <th>LM-40-1</th> </tr> <tr> <td>040</td> <td>1194</td> <td></td> </tr> <tr> <td>046</td> <td>1107</td> <td></td> </tr> <tr> <td>051</td> <td>0</td> <td></td> </tr> <tr> <td>056</td> <td>1107</td> <td></td> </tr> </table>	ZONE	LM-40-0	LM-40-1	040	1194		046	1107		051	0		056	1107		Angle in Vertical	Average - °	2.5°	1563	5.0°	424	7.5°	231	10.0°	65°	Zone	LM-40-0	LM-40-1	040	1194		046	1107		051	0		056	1107		LUMINANCE DATA IN CANDELA/60° METRE <table> <tr> <th>Angle in Vertical</th> <th>Average - °</th> </tr> <tr> <td>2.5°</td> <td>1563</td> </tr> <tr> <td>5.0°</td> <td>424</td> </tr> <tr> <td>7.5°</td> <td>231</td> </tr> <tr> <td>10.0°</td> <td>65°</td> </tr> </table> PERCENTAGES OF UTILIZATION <table> <tr> <th>Zone</th> <th>LM-40-0</th> <th>LM-40-1</th> </tr> <tr> <td>040</td> <td>1194</td> <td></td> </tr> <tr> <td>046</td> <td>1107</td> <td></td> </tr> <tr> <td>051</td> <td>0</td> <td></td> </tr> <tr> <td>056</td> <td>1107</td> <td></td> </tr> </table>	Angle in Vertical	Average - °	2.5°	1563	5.0°	424	7.5°	231	10.0°	65°	Zone	LM-40-0	LM-40-1	040	1194		046	1107		051	0		056	1107		LUMINANCE DATA IN CANDELA/60° METRE <table> <tr> <th>Angle in Vertical</th> <th>Average - °</th> </tr> <tr> <td>2.5°</td> <td>1563</td> </tr> <tr> <td>5.0°</td> <td>424</td> </tr> <tr> <td>7.5°</td> <td>231</td> </tr> <tr> <td>10.0°</td> <td>65°</td> </tr> </table> PERCENTAGES OF UTILIZATION <table> <tr> <th>Zone</th> <th>LM-40-0</th> <th>LM-40-1</th> </tr> <tr> <td>040</td> <td>1194</td> <td></td> </tr> <tr> <td>046</td> <td>1107</td> <td></td> </tr> <tr> <td>051</td> <td>0</td> <td></td> </tr> <tr> <td>056</td> <td>1107</td> <td></td> </tr> </table>	Angle in Vertical	Average - °	2.5°	1563	5.0°	424	7.5°	231	10.0°	65°	Zone	LM-40-0	LM-40-1	040	1194		046	1107		051	0		056	1107	
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LCELED120-6LCELED535K38 LED Light Source: 3500K, 80+ CB Beam Spread: 17.5W Fixture Dimensions: 110°F Power Efficiency: 65 Spotting Circuits: 1:1 CANDIDA DISTRIBUTION DIG CANDIDA <table> <tr><td>0</td><td>962</td></tr> <tr><td>5</td><td>907</td></tr> <tr><td>15</td><td>927</td></tr> <tr><td>25</td><td>931</td></tr> <tr><td>35</td><td>653</td></tr> <tr><td>45</td><td>321</td></tr> <tr><td>55</td><td>16</td></tr> <tr><td>65</td><td>3</td></tr> <tr><td>75</td><td>1</td></tr> <tr><td>85</td><td>0</td></tr> <tr><td>95</td><td>0</td></tr> </table> Test No. 9440 Tested at 25°C Ambient in accordance to IESNA LM-79-2008	0	962	5	907	15	927	25	931	35	653	45	321	55	16	65	3	75	1	85	0	95	0	ZONAL LUMEN SUMMARY <table> <tr> <th>ZONE</th> <th>LM-40-0</th> <th>LM-40-1</th> </tr> <tr> <td>040</td> <td>1420</td> <td></td> </tr> <tr> <td>046</td> <td>1424</td> <td></td> </tr> <tr> <td>051</td> <td>0</td> <td></td> </tr> <tr> <td>056</td> <td>1424</td> <td></td> </tr> </table> LUMINANCE DATA IN CANDELA/60° METRE <table> <tr> <th>Angle in Vertical</th> <th>Average - °</th> </tr> <tr> <td>2.5°</td> <td>2274</td> </tr> <tr> <td>5.0°</td> <td>1644</td> </tr> <tr> <td>7.5°</td> <td>434</td> </tr> <tr> <td>10.0°</td> <td>231</td> </tr> <tr> <td>12.5°</td> <td>0</td> </tr> </table> PERCENTAGES OF UTILIZATION <table> <tr> <th>Zone</th> <th>LM-40-0</th> <th>LM-40-1</th> </tr> <tr> <td>040</td> <td>1420</td> <td></td> </tr> <tr> <td>046</td> <td>1424</td> <td></td> </tr> <tr> <td>051</td> <td>0</td> <td></td> </tr> <tr> <td>056</td> <td>1424</td> <td></td> </tr> </table>	ZONE	LM-40-0	LM-40-1	040	1420		046	1424		051	0		056	1424		Angle in Vertical	Average - °	2.5°	2274	5.0°	1644	7.5°	434	10.0°	231	12.5°	0	Zone	LM-40-0	LM-40-1	040	1420		046	1424		051	0		056	1424		LUMINANCE																																																	
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LIGHTING
VIRGINIA
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Job Name:
Mechum Tunnel Building

Catalog Number:
LC6LED120-6L-GLCDS35K8

Type:
LV - CENTRAL LV-1033B

Notes:

DATE:

PHOTOMETRIC DATA

LiteFrame - 6" LC6LED Downlight

ICGLED120-6L-GLCDS35K8
LED Light Engine: 2500K, 80+ CR
System Voltage: 2500V
Fixture Data/Weight: 1797
Fixture Efficiency: 60.1
Spacing Criteria: 1.1

CANDELA DISTRIBUTION

0 DEG. CANDELA

0	1191
5	1179
15	1211
25	1201
35	823
45	313
55	32
65	4
75	1
85	0
90	0

Test No. 1, 9441
Takied at 25°C Ambient in accordance to IESNA LM-79-0208

LC6LED120-6L-GLCDS35K8 W/W
LED Light Engine: 2500K, 80+ CR
System Voltage: 250V
Fixture Data/Weight: 1850
Fixture Efficiency: 70.1

CANDELA DISTRIBUTION

0 DEG	0.0	90.0	160.0	
0	1365	1365	1365	
5	1356	1415	1400	
10	1335	1327	1312	
15	75	825	1086	1417
20	35	726	763	297
25	45	475	215	115
30	55	250	8	7
35	65	45	1	3
40	75	8	2	2
45	85	0	0	0
50	0	0	0	0

Test No. 13, 00244
Takied at 25°C Ambient in accordance to IESNA LM-79-0208

LUMINANCE DATA IN CANDELA/SQ. METR
Angle in Vertical

0 DEG	5 DEG	10 DEG	15 DEG
43°	33530	14643	12387
50°	33865	764	609
65°	8639	589	389
75°	1094	423	423
85°	0	0	0

LUMINANCE DATA IN CANDELA/SQ. METR
Angle in Vertical

0 DEG	5 DEG	10 DEG	15 DEG
43°	33530	14643	12387
50°	33865	764	609
65°	8639	589	389
75°	1094	423	423
85°	0	0	0

IC6LED120-6L-GLCDS35K8 W/W
LED Light Engine: 2500K, 80+ CR
System Voltage: 250V
Fixture Data/Weight: 1850
Fixture Efficiency: 70.1

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50	0	0	0	0

Test No. 13, 00244
Takied at 25°C Ambient in accordance to IESNA LM-79-0208

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LED Light Engine: 2500K, 80+ CR
System Voltage: 250V
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35	65	45	1	3
40	75	8	2	2
45	85	0	0	0
50	0	0	0	0

Test No. 13, 00244
Takied

[illegible][illegible]

Submitted by: Lighting Vendors Catalog

LIGHTING
VENDOR
NAME

WAREHOUSE
SHADE COLLECTION

PART NUMBER	LED 1	LED 2	LED 3
H-15111	30	9.13,21.31	12.19
H-15113	N/A	9.13,21	12.19
H-15114	30	9.13,21,31	12.19
H-15116	N/A	9.13,21	12.19
H-15117	30	9.13,21,31	12.19
H-15118	30	9.13,21,31,39	12.19
H-15123	30	9.13,21,31	12.19
H-15124	30	9.13,21,31,39	12.19
H-15127	30	9.13,21,31,39	12.19
H-15210	30	9.13,21,31,39	12.19
H-15213	30	9.13,21,31,31	12.19
H-15220	30	9.13,21,31,31	12.19
H-15310-B	30	9.13,21,31,39	12.19
H-15314-B	30	9.13,21,31,39	12.19
H-15315-B	30	9.13,21,31,39	12.19
H-15412	N/A	N/A	12.19
H-15414	N/A	N/A	12.19
H-15415	N/A	N/A	12.19
H-15417	N/A	N/A	12.19
H-15420	N/A	N/A	12.19
H-15424	30	N/A	12.19
H-15427	30	N/A	12.19
H-15512	30	9.13,21,31,39	12.19
H-15513	30	9.13,21,31,39	12.19
H-15514	30	9.13,21,31,39	12.19
H-15515	30	9.13,21,31,39	12.19
H-15516	30	9.13,21,31,39	12.19
H-15517	30	9.13,21,31,39	12.19
H-15520	30	9.13,21,31,39	12.19
H-15524	30	9.13,21,31,39	12.19

Hill-ite Manufacturing Co., Inc.
13430 Monte Vista Avenue
Chico, CA 95710

P: (909) 465-1999 | Fax: (909) 465-0967 | Toll Free: (800) 465-0211

www.hillitemfg.com | email: sales@hillitemfg.com

Catalog Number: H-15110-XXX-1/2"-B1-XX-9LED235-F-BCM-X

Notes:

Type:

G

LED Series

LED Series
Specification's

Compatible Part Numbers

WAREHOUSE SHADE
COLLECTION cont.

PART NUMBER	LED 1	LED 2	LED 3
H-15527	30	9.13,21.31	12.19

PART NUMBER	LED 1	LED 2	LED 3
H-15110	N/A	9.13,21.31	12.19
H-15112	30	9.13,21.31	12.19
H-15114	30	9.13,21.31	12.19

PART NUMBER	LED 1	LED 2	LED 3
H-15112	30	9.13,21.31	12.19
H-15114	30	9.13,21.31	12.19
H-15116	30	9.13,21.31	12.19
H-15118	30	9.13,21.31	12.19
H-15120	30	N/A	12.19
H-15122	30	N/A	12.19
H-15124	N/A	N/A	12.19
H-15126	30	N/A	12.19
H-15128	30	N/A	12.19
H-15130	30	9.13,21.31	12.19
H-15132	30	9.13,21.31	12.19
H-15134	30	9.13,21.31	12.19
H-15136	30	9.13,21.31	12.19
H-15138	30	9.13,21.31	12.19
H-15140	30	9.13,21.31	12.19
H-15142	N/A	N/A	12.19
H-15144	N/A	N/A	12.19
H-15146	30	N/A	12.19
H-15148	30	N/A	12.19
H-15150	30	N/A	12.19

Submitted by: Lighthouse Virginia-Carving LIGHTING VIRGINIA "Carving" Job Name: Mechum Trestle Building	Catalog Number: H18110-XXX-1/2"-B1-XX-9LED235-F- BCM-X Notes:	Type: G LV-CENTRAL16-18356
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HI-LITE MFG. CO., INC.

15400 Monte Vista Avenue
Chico, California 95725
Telephone: (916) 495-1889
Toll Free: (800) 465-0211
Fax: (916) 495-4507
www.hilitemfg.com

Job Name:
Type:
Quantity:

B-1

The diagram illustrates a side view of a lighting fixture assembly. Key features include:

- A horizontal base section with a width dimension of $2 \frac{1}{8}"$.
- A vertical mounting bracket on the left with a height dimension of $4 \frac{3}{4}"$ and a central hole labeled "5/16\" Alp. Ctr."
- An angled arm extending upwards at a 45° angle from the base.
- A curved light shield or reflector with a radius dimension of $2 \frac{1}{2}" R$.
- A threaded fitting at the end of the arm labeled " $\frac{1}{2}" 14 NPT$ ".
- Overall height dimensions on the right side: $6"$, $8 \frac{1}{2}"$, and $2 \frac{1}{8}"$.
- A total length dimension of $18"$ at the bottom.
- Labels within the diagram include "H18110-XXX", "BCM-X", and "G".