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CORNERSTONE COMMUNITY CHURCH

FINAL SITE PLAN SDP-2025-00022

ALBEMARLE COUNTY, VIRGINIA

PROJECT SUMMARY

NAME OF PROJECT: CORNERSTONE COMMUNITY CHURCH

PROJECT ADDRESS: 1395 STONY POINT ROAD
CHARLOTTESVILLE, VA 22911

DEVELOPMENT TYPE: BY-RIGHT COMMERCIAL

PROJECT NARRATIVE: **SITE IMPROVEMENTS NECESSARY FOR THE ESTABLISHMENT OF A CHURCH WITHIN THE EXISTING GARAGE BUILDING ON SITE. EXISTING RESIDENCE TO BE USED FOR MIXTURE OF CHURCH OFFICE/STORAGE/CHILD CARE ASSOCIATED WITH ASSEMBLY ONLY**

PLANNING HISTORY: **ZMA202300004, SE202300031**

APPLICANT/OWNER:

CONTACT: CORNERSTONE COMMUNITY CHURCH
TONY SCHIAVONE, LEAD PASTOR
ADDRESS: 1395 STONY POINT ROAD
CHARLOTTESVILLE, VA 22911
PHONE: 434-218-3365
EMAIL: TONY@CORNERSTONECOMMUNITY.TV

ENGINEER OF RECORD:

CONTACT: LINE AND GRADE CIVIL ENGINEERING
KENDRA G. MOON, PE
ADDRESS: 222 SOUTH STREET WEST
CHARLOTTESVILLE, VA 22902
PHONE: 540-660-5744
EMAIL: KMOON@LINE-GRADE.COM

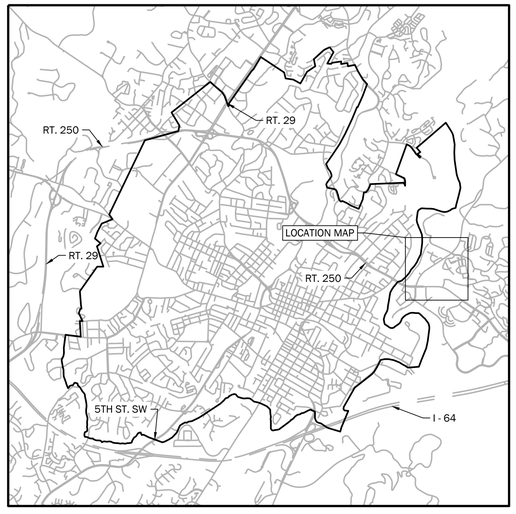
SOURCE OF SURVEY AND TOPOGRAPHY:

SOURCE: FIELD SURVEY COMPLETED 2020 AND UPDATED JUNE 28, 2024
FIELD VERIFIED BY KENDRA MOON, PE ON JULY 1, 2024
CONTACT: MERIDIAN PLANNING GROUP
TIM MILLR, PE, LS
ADDRESS: 440 PREMIER CIRCLE, SUITE 200
CHARLOTTESVILLE, VA, 22901
PHONE: 434-882-0121
EMAIL: TMILLER@MERIDIANWBE.COM

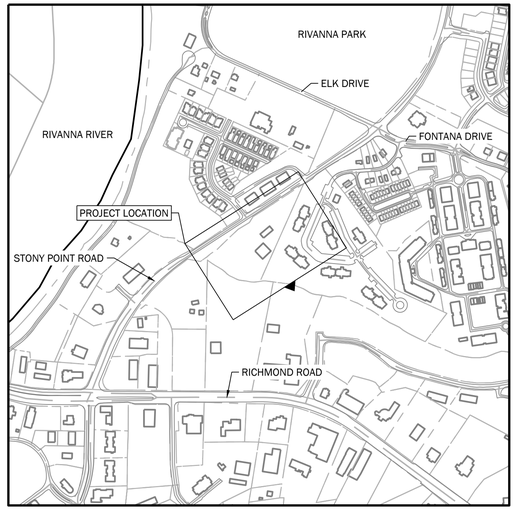
PARCELS:

PARCEL ID: 78-58K
OWNER: CORNERSTONE COMMUNITY CHURCH
CONTACT: TONY SCHIAVONE
ZONED: C1
MAG. DISTRICT: RIVANNA
OVERLAYS: DAM INUNDATION, EC, FHO (PENDING CHANGES), SCENIC BYWAYS
PROFFERS: ZMA202300004
LEGAL AREA: 3.58 ACRE

PROPOSED SITE PLAN REQUIREMENTS	ALLOWED OR REQ'D
BUILDING HEIGHT:	
MAX HEIGHT ALLOWED =	(PER ZMA 202300004) LESSER OF 3 STORIES OR 45 FT
EXISTING BUILDING HEIGHT =	15 FT
EXISTING BUILDINGS TO REMAIN HEIGHT =	15 FT
SETBACKS:	
PRIMARY STREET MIN FRONT BUILDING SETBACK =	10 FT
PRIMARY STREET MAX FRONT BUILDING SETBACK =	30 FT
SIDE AND REAR BUILDING SETBACK =	50 FT
USE BUFFER ADJACENT TO RESIDENTIAL =	20 FT
PARKING SETBACK =	10 FT
BUILDING FOOTPRINTS:	
EXISTING BUILDINGS	7,338 SF
EXISTING BUILDINGS TO REMAIN	6,296 SF
MAX SF COMMERCIAL USE =	6,296 SF
PARKING REQUIRED:	
SEE C0.2	
TREE CANOPY COVER:	
SEE LANDSCAPE PLAN	



VICINITY MAP
SCALE: 1" = 4,000'



LOCATION MAP
SCALE: 1" = 500'

DESIGN INFORMATION:

DESIGN MANUALS REFERENCED:
VDOT ROAD DESIGN MANUAL
ALB CO. DESIGN STANDARDS MANUAL
ADDITIONAL INFORMATION:
DISTURBANCE AREA: 2.84 AC (123,637 SF)
PROPOSED IMPERVIOUS AREA: 1.14 AC (0.13 AC ADDITIONAL)
MISS UTILITY TICKET NO.: A414100338-00A
12 DIGIT HUC CODE: 020802040401
RIVANNA RIVER - MEADOW CREEK
PUBLIC WATER SUPPLY AREA: NO, UPPER RIVANNA
INITIAL SITE PLAN APPROVAL: SDP202400047

UTILITY OWNERS:

COMM.: TBD
ELEC: DOMINION
GAS: N/A
WATER: ACSA
STORM SEWER: PRIVATE
SANITARY SEWER: ACSA

Sheet List Table

SHEET NUMBER	SHEET TITLE
C0.0	Cover Sheet
~~C0.1~~	~~General Notes~~
~~C0.2~~	~~Legend and Calculations~~
C1.0	Existing Conditions and Demolition Plan
C2.0	Site Plan
~~C2.1~~	~~Sight Distance~~
C2.2	Site Details
C3.0	Grading Plan
C4.0	Utility Plan
C4.1	Water Main Extension Plan and Profile
~~C4.2~~	~~Utility Profiles and Details~~
~~C4.3~~	~~Channel Profiles~~
~~C5.0~~	~~Stormwater Drainage Map~~
~~C5.1~~	~~Stormwater Details and Calculations~~
C6.0	Landscape Plan
C7.0	Photometrics Plan
C7.1	Photometric Details
C7.2	Photometric Details
~~C8.0~~	~~Retaining Wall Details~~
~~C8.1~~	~~RETAINING WALL DETAILS~~
20	TOTAL SHEETS

DEPARTMENT OF PLANNING AND COMMUNITY DEVELOPMENT DATE

DEPARTMENT OF ENGINEERING DATE

DEPARTMENT OF ZONING DATE

FIRE MARSHAL DATE

ALBEMARLE COUNTY SERVICE AUTHORITY DATE

VIRGINIA DEPARTMENT OF HEALTH DATE

COVER SHEET

CORNERSTONE COMMUNITY CHURCH
FINAL SITE PLAN SDP-2025-00022
ALBEMARLE COUNTY, VIRGINIA

COMMONWEALTH OF VIRGINIA
09/15/2025
KENDRA G. MOON
Lic. No. 042703650
PROFESSIONAL ENGINEER

SUBMISSIONS/REVISIONS
3 - 09/15/2025
REVS PER COMMENTS

2 - 07/21/2025
REVS PER COMMENTS

1 - 03/03/2025
FIRST SUBMITTAL

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Civil Engineering

C0.0

L+G PROJECT NUMBER: 2304003

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BOUNDARY LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N 38°34'08" W	20.30'
L2	N 67°07'29" W	46.23'
L3	N 25°46'49" W	20.34'
L4	N 57°15'52" W	50.65'
L5	N 75°55'41" W	21.43'
L6	N 49°16'52" W	35.61'
L7	N 61°13'20" W	34.80'
L8	N 47°44'31" W	33.83'
L9	N 66°11'21" W	11.63'
L10	N 56°57'35" E	11.10'
L11	N 49°58'00" E	41.07'

LEGEND

- GENERAL DEMO
- TREE DEMO
- SAWCUT
- VDOT WP-2 MILL & OVERLAY

NOTES

1. LOCATION OF EXISTING SANITARY LATERAL CONNECTION TO MAIN IS UNKNOWN - SURVEYOR DID NOT FIND A LATERAL CONNECTION IN DOWNSTREAM MANHOLE. CONTRACTOR TO VERIFY.
2. EXISTING WELL DOCUMENTATION NOT FOUND WITH VDH. ANY EXISTING WELL IS TO BE ABANDONED IN ACCORDANCE WITH VDH GUIDELINES.
3. ENTIRE PROPERTY WITHIN FEDERAL DAM BREAK INUNDATION ZONE, PORTION OF PROPERTY WITHIN STATE DAM BREAK INUNDATION ZONE.
4. CURRENT FEMA BFE = 342 FT, ZONE AE, ALBEMARLE COUNTY UNINCORPORATED AREAS (510006), MAP NUMBER 51003C0287D, EFFECTIVE 02/04/2005.
5. THE CURRENT 100 YR FLOODPLAIN ON THIS PROPERTY IS A BACKWATER AREA AND AS SUCH THERE IS NO IDENTIFIED FLOODWAY.
6. DRAFT FEMA FLOODPLAIN LIMITS SHOW THIS PROPERTY REMOVED FROM THE FLOODPLAIN ENTIRELY.

PORTION OF CONCRETE PAD TO BE REMOVED
PORTION OF RETAINING WALL ALONG CONC. PAD TO REMAIN
ROOF AND WALLS OF ADDITION TO BE REMOVED
PORTION OF CONCRETE PAD TO REMAIN
GRAVEL PARKING AREA TO BE REMOVED
WALL TO BE REMOVED
EXCESS ASPHALT TO BE REMOVED
EXISTING BUILDINGS TO REMAIN
CARPORT TO BE REMOVED
GRAVEL DRIVEWAY TO BE REMOVED
VINYL FENCE TO BE REMOVED
TREE TO BE REMOVED (TYP)
REMOVE SANITARY MANHOLE AND PORTION OF LATERAL
EXISTING ASPHALT TO REMAIN
POLE AND SURROUNDING WALL TO BE REMOVED
ENTRANCE TO BE REMOVED
ENTRANCE TO BE REBUILT
VINYL FENCE TO BE RELOCATED
STORM DRAIN AND PIPE TO BE REMOVED
SAWCUT 171 LF
54 LF
73 LF
59 LF
54 LF

1 EXISTING CONDITIONS
1" = 30': 0 30 60

EXISTING CONDITIONS AND DEMOLITION PLAN

CORNERSTONE COMMUNITY CHURCH
FINAL SITE PLAN SDP-2025-00022

ALBEMARLE COUNTY, VIRGINIA

COMMONWEALTH OF VIRGINIA
09/15/2025
KENDRA G. MOON
Lic. No. 0402063650
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C1.0

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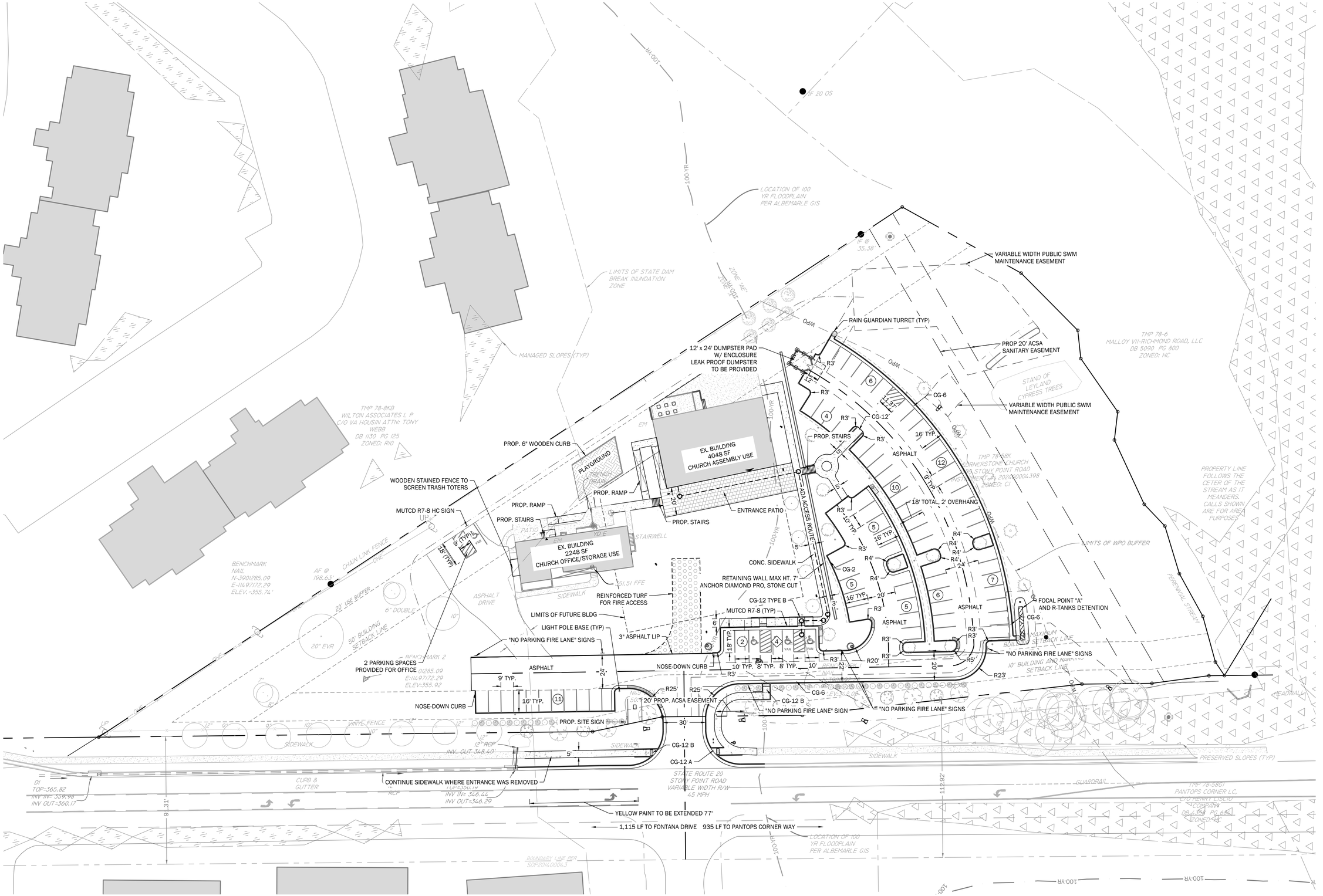

1 SITE PLAN
1" = 30': 0 30 60

SITE PLAN

CORNERSTONE COMMUNITY CHURCH
FINAL SITE PLAN SDP-2025-00022
ALBEMARLE COUNTY, VIRGINIA

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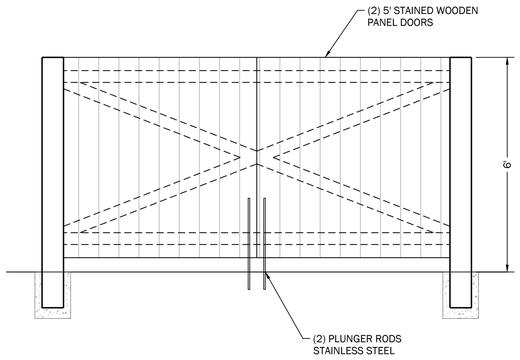
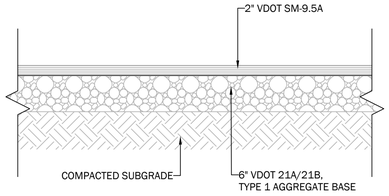
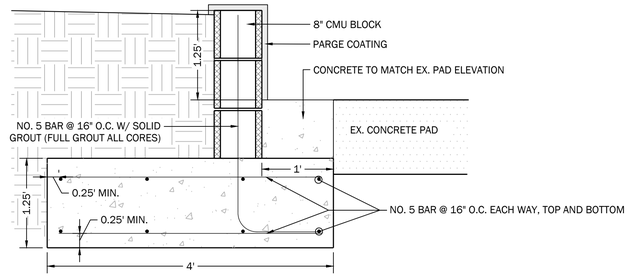


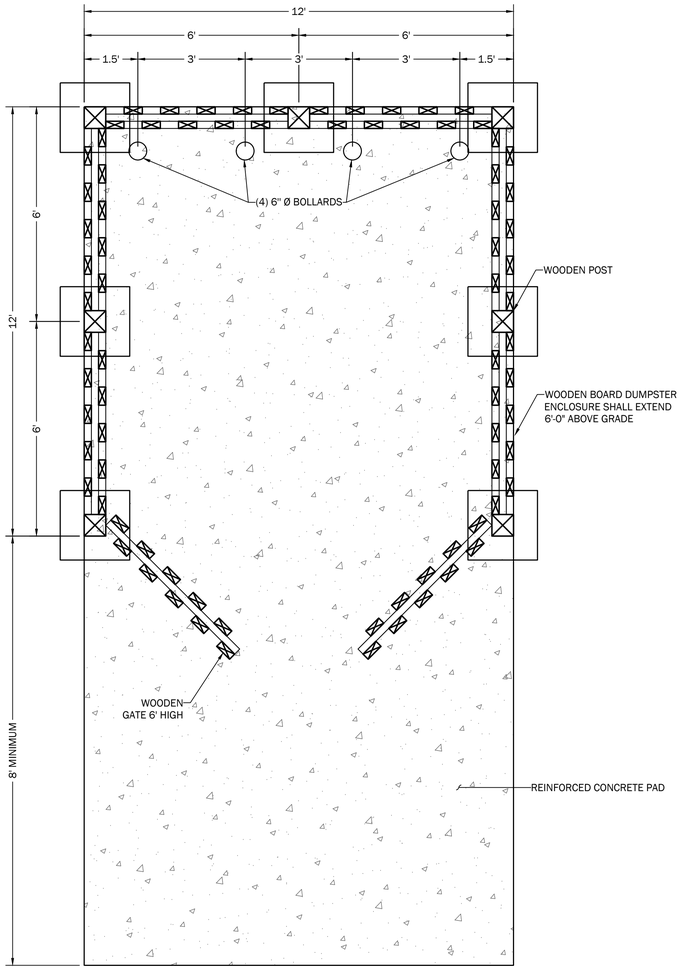
1 DUMPSTER ENCLOSURE



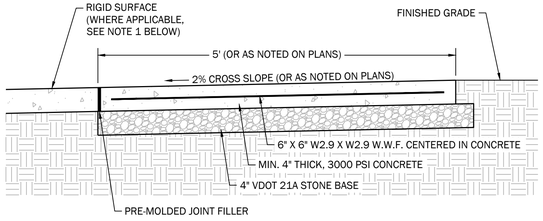
2 SITE PAVEMENT SECTION



3 CMU BLOCK WALL DETAIL



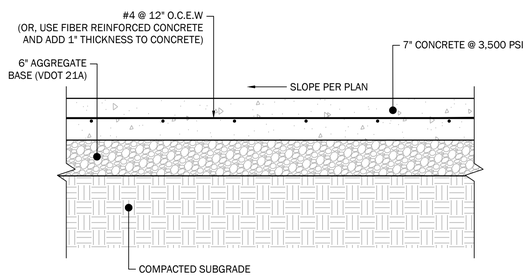
4 CONCRETE DUMPSTER PAD



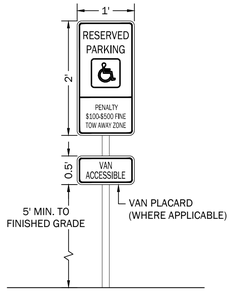
NOTE:

1. WHERE SIDEWALK ABUTS PAVEMENT, CONCRETE, CURB, BUILDING, OR OTHER HARD SURFACE, CONTRACTOR TO PROVIDE PRE-MOLDED JOINT FILLER AND EXPANSION JOINT AS SHOWN ABOVE.

5 SIDEWALK



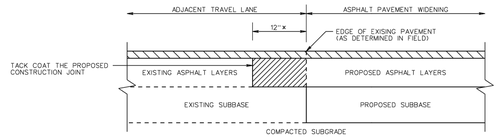
7 CONCRETE DUMPSTER PAD PAVEMENT SECTION



HANDICAP PARKING SIGN

6 HANDICAP PARKING SIGN

WP-2



CONSTRUCTION JOINT DETAIL

REMOVE EXISTING ASPHALT LAYERS TO EXISTING SUBBASE AND REPLACE WITH PROPOSED ASPHALT WIDENING LAYERS

PROPOSED MINIMUM 1½ INCH THICK ASPHALT SURFACE COURSE (SEE NOTE 5)

× MINIMUM 12 INCHES, OR GREATER AS NECESSARY TO ABUT THE FULL THICKNESS OF EXISTING ASPHALT LAYERS AS DETERMINED BY CORES (SEE NOTE 3)

NOTES:

1. ASPHALT PAVEMENT WIDENING SHALL HAVE A PAVEMENT DESIGN IN ACCORDANCE WITH CURRENT VDOT PROCEDURES AND BE APPROVED BY THE ENGINEER.
2. THE PAVEMENT DESIGN FOR ASPHALT PAVEMENT WIDENING SHALL MEET OR EXCEED THE DEPTHS AND TYPES OF THE LAYERS OF EXISTING PAVEMENT. SUBSURFACE DRAINAGE OF THE EXISTING AND PROPOSED PAVEMENT SHALL BE ADDRESSED IN THE PAVEMENT DESIGN.
3. A MINIMUM OF THREE CORES SHALL BE TAKEN ALONG THE CENTER OF THE ADJACENT TRAVEL LANE TO DETERMINE THE TYPE AND THICKNESS OF EXISTING PAVEMENT LAYERS. THESE CORES SHALL BE SPACED NO MORE THAN 500 FEET APART.
4. THE ADJACENT TRAVEL LANE SHALL BE MILLED A MINIMUM DEPTH OF 1½ INCHES AND REPLACED WITH AN ASPHALT SURFACE COURSE TO MATCH THE PROPOSED PAVEMENT WIDENING SURFACE COURSE, UNLESS WAIVED BY THE ENGINEER.
5. THE ENGINEER MAY REQUIRE THE MILLING DEPTH OF THE EXISTING PAVEMENT TO BE ADJUSTED TO ACHIEVE AN ACCEPTABLE PAVEMENT CROSS-SLOPE AND EFFECTIVE SURFACE DRAINAGE.
6. EXISTING PAVEMENT MARKINGS AND MARKERS WITHIN THE PROJECT LIMITS SHALL BE RESTORED SUBJECT TO THE APPROVAL OF THE ENGINEER.
7. FINAL TRANSVERSE PAVEMENT TIE-IN SHALL CONFORM TO THE REQUIREMENTS OF SECTION 315 OF THE SPECIFICATIONS EXCEPT THAT ALL JOINTS AT TIE-IN LOCATIONS SHALL BE TESTED USING A 10 FOOT STRAIGHTEDGE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 315 OF THE SPECIFICATIONS.

VDOT ROAD AND BRIDGE STANDARDS		ASPHALT PAVEMENT WIDENING FOR WIDENING SUBJECT TO TRAFFIC VIRGINIA DEPARTMENT OF TRANSPORTATION	SPECIFICATION REFERENCE
SHEET 1 OF 1	REVISION DATE		315
303.02			

8 WP-2

SITE DETAILS

CORNERSTONE COMMUNITY CHURCH
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ALBEMARLE COUNTY, VIRGINIA

COMMONWEALTH OF VIRGINIA
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C2.2

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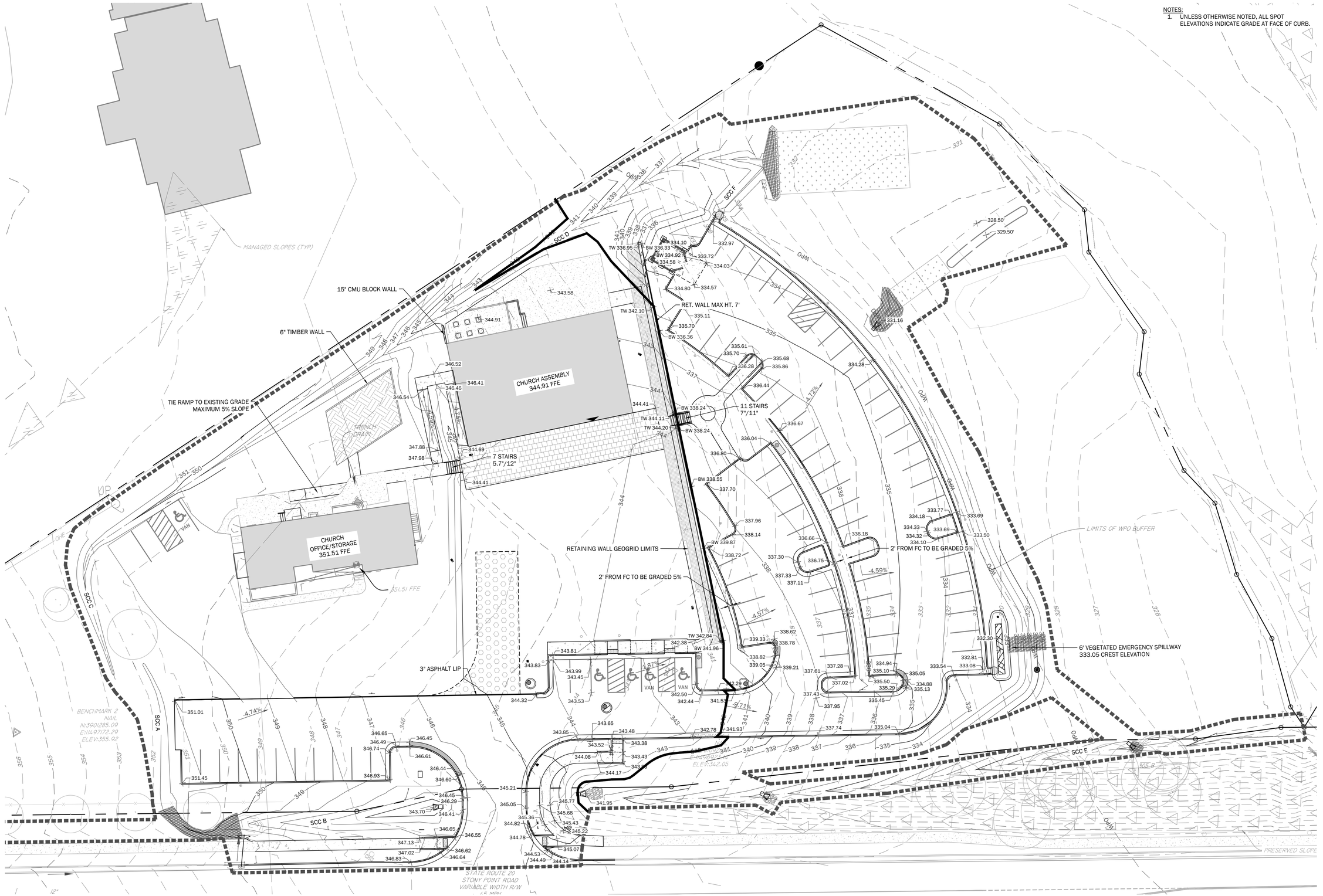
NOTES:
1. UNLESS OTHERWISE NOTED, ALL SPOT ELEVATIONS INDICATE GRADE AT FACE OF CURB.



1 GRADING PLAN
1" = 20': 0 20 40

GRADING PLAN

CORNERSTONE COMMUNITY CHURCH
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ALBEMARLE COUNTY, VIRGINIA

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NOTES:
1. VISIBILITY OF ALL MECHANICAL EQUIPMENT FROM THE ENTRANCE CORRIDOR SHALL BE ELIMINATED.
2. STORM AND SANITARY STRUCTURES WITHIN FLOOD HAZARD OVERLAY SHALL HAVE BOLTED DOWN LIDS.

MATCH LINE - SEE SHEET C4.1

HORZ. BEND 22.5°

HORZ. BEND 22.5°

8" DUCTILE IRON

1+00

2+00

3+00

4+00

INV. OUT: 346.44

DI
TOP=365.82
INV IN= 359.98
INV OUT=360.17

DI
TOP=330.19
INV IN= 346.44
INV OUT=346.29

12" RCP

8"X4" TEE
4" GATE VALVE

SD-2
VDOT ES-1
INV. IN: 343.70

8"X6" TEE AND GV

8" GATE VALVE AND BLOW-OFF ASSEMBLY

STATE ROUTE 20
STONY POINT ROAD
VARIABLE WIDTH R/W
45 MPH

PROP. 15" RCP

PROP. 1.5" WATER METER

10' PUBLIC ACCESS EASEMENT

PROP. 4" DI TO WITHIN 24" OF METER
(SEE ACSA DETAIL W-7)

THIS PORTION OF THE SCC WILL HAVE SIDE SLOPES OF 2:1, IN ORDER TO ADEQUATELY CONVEY STORMWATER RUNOFF WITHOUT DAMAGING THE NEARBY EXISTING TREES. VDOT EC-2 LINING SHALL BE PLACED AS SHOWN.

WOODEN STAINED FENCE TO SCREEN TRASH TOTERS

CHURCH OFFICE/STORAGE

2" DOMESTIC LINE

INV. OUT: 340

SS-B1
CLEANOUT

SS-A2
SANITARY MANHOLE
RIM: 344.28
INV. IN: 339.26 (SS-A3)
INV. IN: 339.26 (SS-B1)
INV. OUT: 339.06

PROP. 6" SDR-26 PVC

RD 3
CLEANOUT AT DS CONNECTION
INV. OUT: 343.23

RD 2
90 DEG HORZ BEND AND C/O
INV. IN: 342.39 (RD 3)
INV. OUT: 342.39

CHURCH ASSEMBLY

PROP. 6" PVC

MECH EQUIPMENT BEHIND RESIDENCE

MECH EQUIPMENT LOCATED BEHIND CHURCH

RETAINING WALL
GEOGRID LIMITS

PROP. 6" PVC

INV: 339.36

SD-11
RAIN GUARDIAN TURRET
RIM: 332.53

SSMH

SDMH
RIM: 339.22
8" PVC IN=329.47
8" PVC OUT=329.32

VARIABLE WIDTH PUBLIC SWM MAINTENANCE EASEMENT

PROP 20' ACSA
SANITARY EASEMENT

3" PVC PIPES
13 LF

SD-7
12" NYLOPLAST END SECTION
INV. OUT: 331.16 (SD-8)

PROP. 12" HDPE

SD-8
VDOT DI-3B L6
RIM: 336.69
INV. OUT: 332.80

PROP. 6" SDR-26 PVC

SS-A3
STUBOUT FOR FUTURE CONNECTION

SS-C1
22.5 DEG HORZ BEND AND C/O

PROP. BOLLARD LIGHT (TYP)

SD-14
VDOT DI-3B L6
RIM: 342.92
INV. OUT: 338.50

R TANK "E"
HD DOUBLE
4X17 UNITS

INV: 337.86

CONNECT TO EX. SANITARY

PROP. 6" SDR-26 PVC

SD-13
VDOT MH-2 W/ WEIR AND ST-1
RIM: 343.49
INV. IN: 337.86 (RTANKA OUTLET CONNECTION)
INV. OUT: 337.86

SS-A1
SANITARY MANHOLE
RIM: 341.35
INV. IN: 337.29 (SS-A2)
INV. IN: 337.29 (SS-C1)

PROP. 15" HDPE

FIRE HYDRANT ASSEMBLY

VARIABLE WIDTH PUBLIC SWM MAINTENANCE EASEMENT

20' PROP. ACSA EASEMENT

10' PUBLIC ACCESS EASEMENT

SD-12
15" NYLOPLAST END SECTION
INV. OUT: 336.69 (SD-13)

SD-1
VDOT ES-1 (15 ")
INV. OUT: 341.95 (SD-2)

LIMITS OF WPO BUFFER

10' PUBLIC ACCESS EASEMENT

SD-5
8" NYLOPLAST RISER - DOME
RIM: 332.50
INV. OUT: 328.70

FOCAL POINT (3'X24')
AND R TANK "A" - LD DOUBLE 3X11 UNITS

INV: 328.68

SD-6
RAIN GUARDIAN TURRET
RIM: 332.99

SD-4
30" NYLOPLAST RISER
RIM: 330.18
INV. IN: 327.23 (RTANKA OUTLET)
INV. OUT: 326.27

PROP. 15" HDPE

PROP. LIGHT
POLE BASE (TYP)

SD-3
15" NYLOPLAST END SECTION
INV. OUT: 325.73 (SD-4)

TOP=333.89

PRESERVED SLOPES (TYP)

LOCATION OF 100 YR FLOODPLAIN PER ALBEMARLE GIS

LIMITS OF STATE DAM BREAK INUNDATION ZONE

MANAGED SLOPES (TYP)

APPROX. UNDERGROUND ELEC. LOCATION - TO BE VERIFIED

BOUNDARY LINE PER SDP201400043

100-YR

1 UTILITY PLAN
1" = 30': 0 30 60

UTILITY PLAN

CORNERSTONE COMMUNITY CHURCH
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ALBEMARLE COUNTY, VIRGINIA

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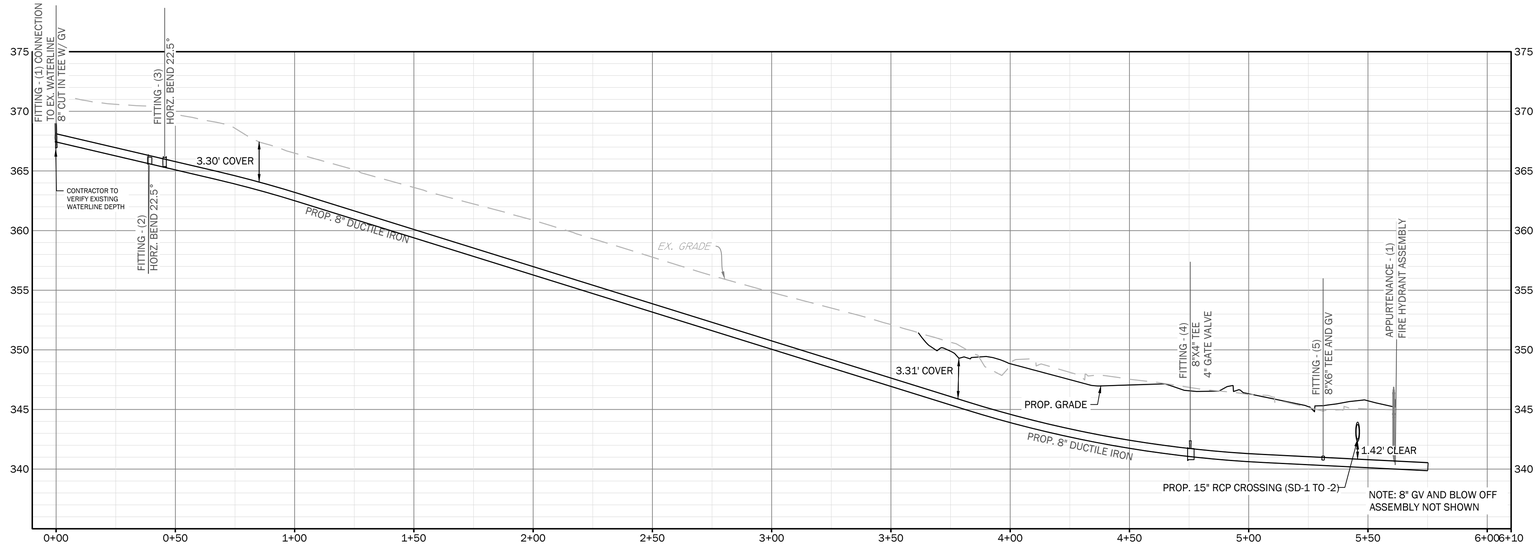
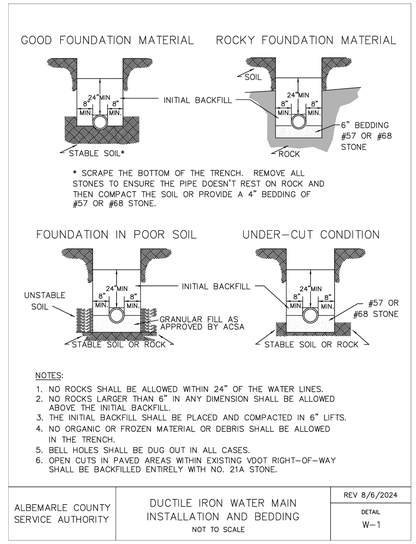
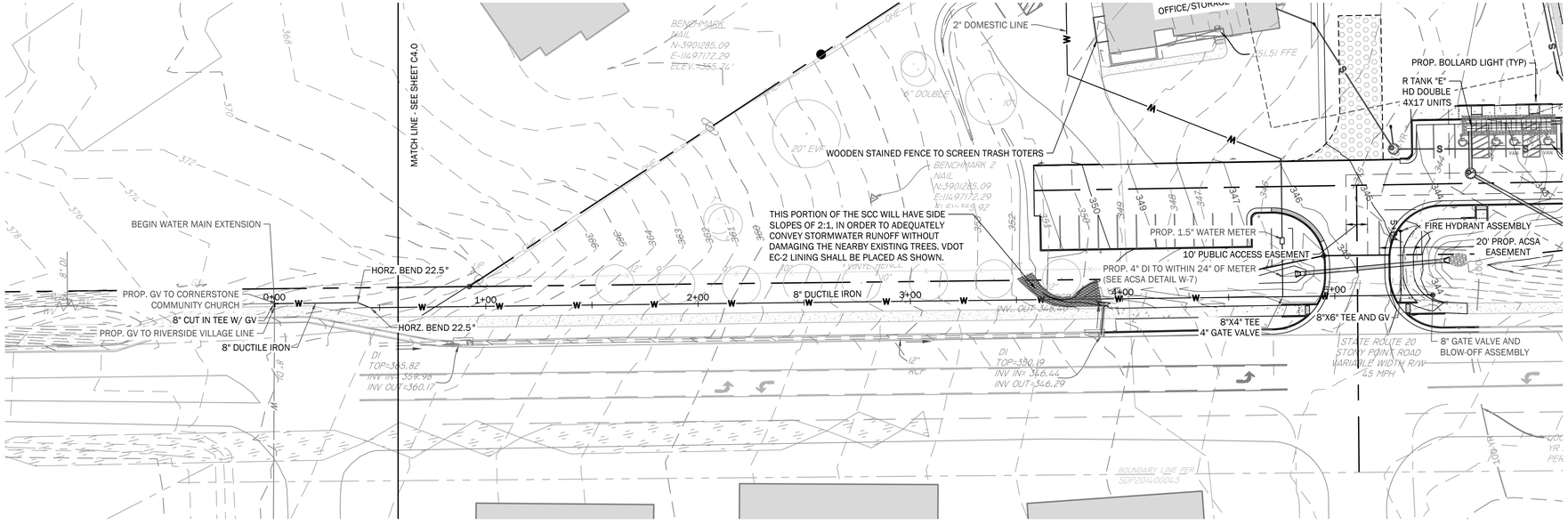


1 WATER MAIN EXTENSION PROFILE

H: 1" = 30': 0 30 60
V: 1" = 6': 0 6 12

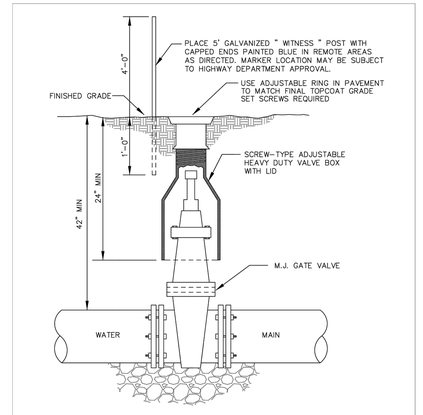


2 W-1 (DI INSTALLATION AND BEDDING)



3 WATER MAIN EXTENSION PLAN

1" = 30': 0 30 60



4 W-2 (TYPICAL GATE VALVE)

WATER MAIN EXTENSION PLAN AND PROFILE

CORNERSTONE COMMUNITY CHURCH

FINAL SITE PLAN SDP-2025-00022

ALBEMARLE COUNTY, VIRGINIA

COMMONWEALTH OF VIRGINIA
09/15/2025
KENDRA G. MOON
Lic. No. 0402063650
PROFESSIONAL ENGINEER

SUBMISSIONS/REVISIONS

3: 09/15/2025
REVS PER COMMENTS

2 - 07/21/2025
REVS PER COMMENTS

1 - 03/03/2025
FIRST SUBMITTAL

LINE AND GRADE
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C4.1

L+G PROJECT NUMBER: 2304003

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LANDSCAPE AND CANOPY CALCULATIONS

SITE AREA	156553	SF
	3.594	AC
CANOPY REQ'D FOR COMMERCIAL (10%)[1]	15655	SF

SOURCE	PLANTING/SPECIES	BOTANICAL NAME	QTY	SIZE	10 YEAR CANOPY AREA	TOTAL 10 YR CANOPY AREA
Preserved Tree Canopy	Varies	Varies	14	*VARIES*	*VARIES*	3,789 SF
Street Trees (Large Canopy)	Blackgum	*Nyssa sylvatica*	3	3.5" CAL	151 SF	453 SF
Street Trees (Large Canopy)	Chinquapin Oak	*Quercus muehlenbergii*	2	3.5" CAL	291 SF	582 SF
Street Trees (Large Canopy)	Sugarberry	*Celtis laevigata*	3	3.5" CAL	154 SF	462 SF
Street Trees (Ornamental)	Dogwood - 'Appalachian Spring'	*Cornus florida*	5	MIN 6' HT.	124 SF	620 SF
Screening Tree	American Holly	*Ilex opaca & cvs.*	6	MIN. 4' HT.	44 SF	264 SF
Pedestrian Ways Trees	Cucumbertree Magnolia	*Magnolia acuminata*	4	2.5" CAL	289 SF	
Internal Parking Lot Tree	Chinquapin Oak	*Quercus muehlenbergii*	3	2.5" CAL	291 SF	873 SF
Internal Parking Lot Tree	Willow Oak	*Quercus phellos*	3	2.5" CAL	419 SF	1,257 SF
Internal Parking Lot Tree	Northern Red Oak	*Quercus rubra*	3	2.5" CAL	481 SF	1,443 SF
Parking Lot Screening Shrubs	Inkberry Holly 'Shamrock'	*Ilex glabra & cvs*	27	MIN 24" HT.	23 SF	621 SF
Parking Lot Screening Shrubs	Mountain Pieris	*Pieris floribunda*	27	MIN 24" HT.	14 SF	378 SF
Stream Buffer Area Canopy	Willow Oak	*Quercus phellos*	10	MIN 1.5" CAL	370 SF	3,700 SF
Stream Buffer Area Canopy	Red Maple	*Acer rubrum*	10	MIN 1.5" CAL	397 SF	3,970 SF
Stream Buffer Area Canopy	River Birch	*Betula nigra & cvs.*	10	MIN 1.5" CAL	464 SF	4,640 SF
Stream Buffer Area Canopy	Pin or Water Oak	*Quercus palustris*	10	MIN 1.5" CAL	370 SF	3,700 SF
Stream Buffer Area Understory	Gray Dogwood	*Cornus racemosa*	10	MIN. 3/4" CAL	64 SF	640 SF
Stream Buffer Area Understory	Easterm Redbud	*Cercis canadensis*	10	MIN. 3/4" CAL	124 SF	1,240 SF
Stream Buffer Area Understory	American Hornbeam	*Carpinus caroliniana*	10	MIN. 3/4" CAL	113 SF	1,130 SF
Stream Buffer Area Understory	Paw Paw	*Asimina triloba*	10	MIN. 3/4" CAL	283 SF	2,830 SF
Stream Buffer Area Shrub	Red Chokeberry	*Aronia arbutifolia & cvs. R*	10	MIN 15" HEIGHT	7 SF	70 SF
Stream Buffer Area Shrub	Buttonbush	*Cephalanthus occidentalis*	10	MIN 15" HEIGHT	9 SF	90 SF
Stream Buffer Area Shrub	Swamp Azalea	*Rhododendron viscosum*	10	MIN 15" HEIGHT	13 SF	130 SF
Stream Buffer Area Shrub	Fetterbush	*Leucothoe fontanesiana*	10	MIN 15" HEIGHT	11 SF	110 SF
				CANOPY AREA REQUIRED =		15,655 SF
				CANOPY AREA PROVIDED =		32,992 SF

LANDSCAPING WITHIN A PARKING AREA		
Per Sec. 32.7.9.6		
PARKING LOT AREA	29369	SF
CANOPY REQ'D (5%)	1468	SF
CANOPY PROVIDED	3573	SF
PARKING SPACES PROVIDED	79	SPACES
# TREES REQ'D (1 PER 10 SPACES OR PORTION THEREOF)	8	TREES REQ'D
#TREES PROVIDED	9	TREES PROVIDED

STREET TREES		
Per Sec. 32.7.9.5 and Entrance Corridor Guidelines		
STREET FRONTAGE	807	LF
#TREES REQ'D (1 LARGE TREE PER 35 LF)	23	TREES REQ'D
EX. TREES PRESERVED	9*	TREES PRESENT
#TREES PROVIDED	8	TREES PROVIDED
#UNDERSTORY TREES PROVIDED	5	UNDERSTORY TREES PROVIDED

*Note - Heavy existing vegetation at southern end of site along guardrail, no street trees proposed in this area

NOTE: 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.

LEGEND

- STREAM BUFFER MITIGATION PLANTING
- DISTURBED STREAM BUFFER
- COMPOST AMENDED SOILS
- PARKING LOT AREA
- PROPOSED NATIVE GRASSES

County of Albemarle
Conservation Plan Checklist – To be placed on Landscape Plans
(Handbook, pp III-284-111-297 for complete specifications)

1. **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 of trees 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. **Cleanup:**
    - ☑ 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.

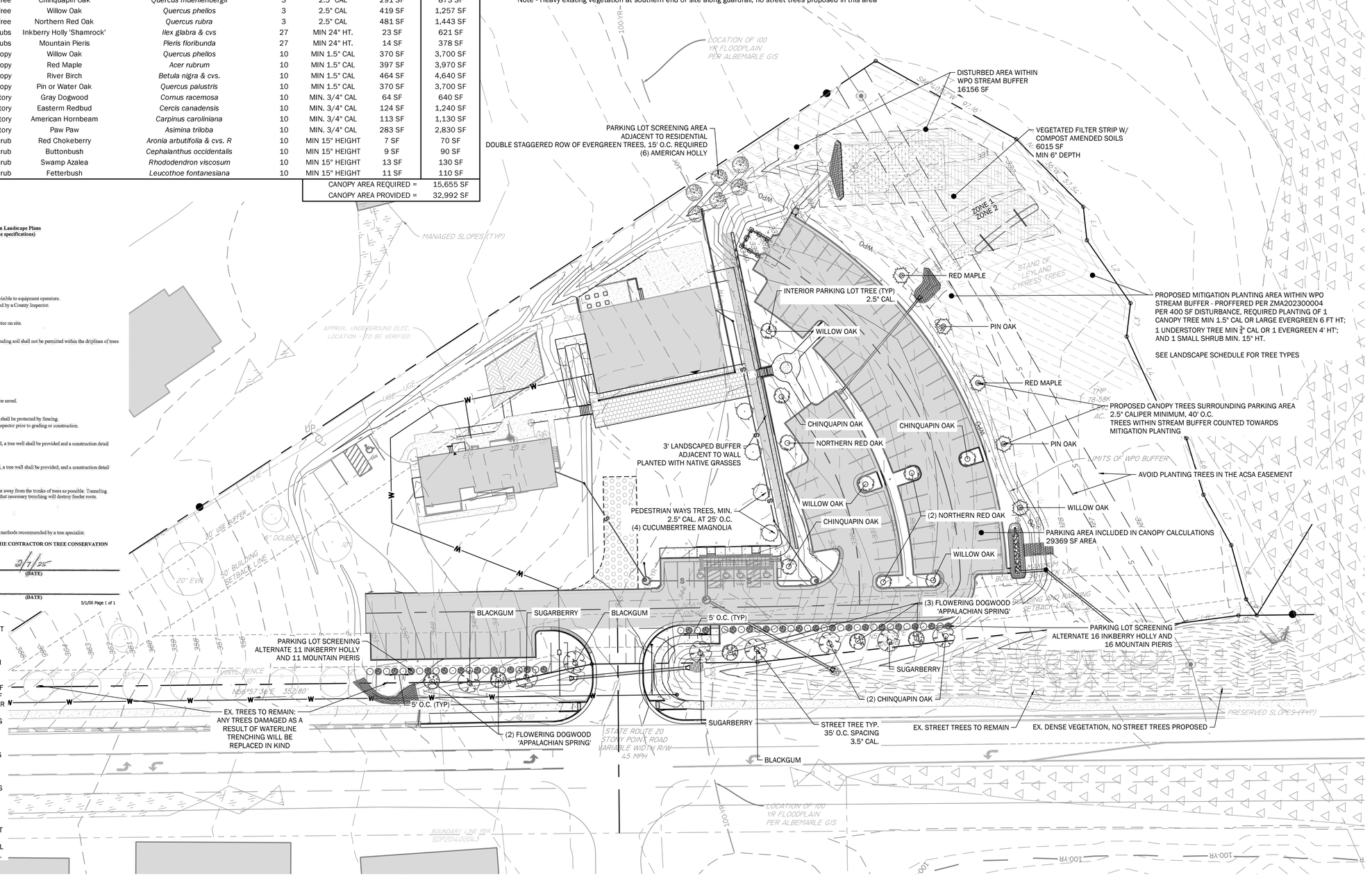
NOTE: IT IS THE DEVELOPER'S RESPONSIBILITY TO CONFER WITH THE CONTRACTOR ON TREE CONSERVATION REQUIREMENTS.

OWNER SIGNATURE — (DATE) 2/7/25

CONTRACT PURCHASER SIGNATURE — (DATE)

5/1/06 Page 1 of 1

A. ALL LANDSCAPING SHALL BE INSTALLED BY THE FIRST PLANTING SEASON FOLLOWING THE ISSUANCE OF THE FIRST CERTIFICATE OF OCCUPANCY WITHIN THE DEVELOPMENT, OR A PHASE THEREOF.
B. ALL TREES SHALL BE PLANTED IN ACCORDANCE WITH EITHER THE STANDARDIZED LANDSCAPE SPECIFICATIONS JOINTLY ADOPTED BY THE VIRGINIA NURSERYMEN'S ASSOCIATION, THE VIRGINIA SOCIETY OF LANDSCAPE DESIGNERS AND THE VIRGINIA CHAPTER OF THE AMERICAN SOCIETY OF LANDSCAPE ARCHITECTS, OR THE ROAD AND BRIDGE SPECIFICATIONS OF THE VIRGINIA DEPARTMENT OF TRANSPORTATION. PLANTING ISLANDS SHALL CONTAIN A MINIMUM OF 50 SQUARE FEET PER TREE, WITH A MINIMUM DIMENSION OF FIVE FEET IN ORDER TO PROTECT THE LANDSCAPING AND ALLOW FOR PROPER GROWTH. WHEEL STOPS, CURBING OR OTHER BARRIERS SHALL BE PROVIDED TO PREVENT DAMAGE TO LANDSCAPING BY VEHICLES. WHERE NECESSARY, TREES SHALL BE WELLED OR OTHERWISE PROTECTED AGAINST CHANGE OF GRADE. ALL PERVIOUS AREAS OF THE SITE SHALL BE PERMANENTLY PROTECTED FROM SOIL EROSION WITH GRASS OR OTHER GROUND COVER OR MULCH MATERIAL.
C. ALL LANDSCAPING AND SCREENING SHALL BE MAINTAINED IN A HEALTHY CONDITION BY THE CURRENT OWNER OR A PROPERTY OWNERS' ASSOCIATION, AND REPLACED WHEN NECESSARY. REPLACEMENT MATERIAL SHALL COMPLY WITH THE APPROVED LANDSCAPE PLAN.



1 LANDSCAPE PLAN
1" = 30': 0 30 60

LANDSCAPE PLAN

CORNERSTONE COMMUNITY CHURCH
FINAL SITE PLAN SDP-2025-00022
ALBEMARLE COUNTY, VIRGINIA

COMMONWEALTH OF VIRGINIA
09/15/2025
KENDRA G. MOON
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L+G PROJECT NUMBER: 2304003

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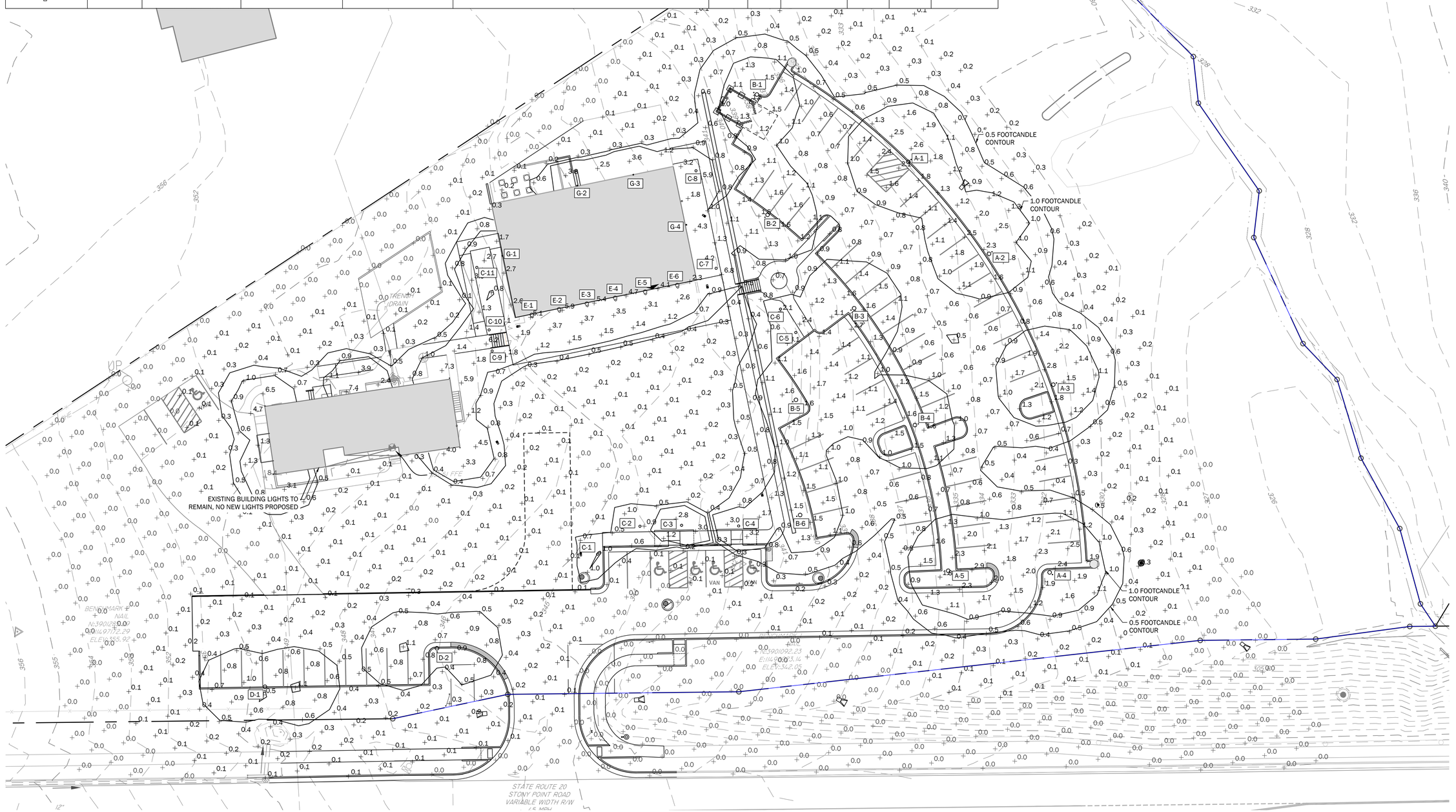
LIGHTING SCHEDULE

SYMBOL	LABEL	QUANITITY	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	NUMBER LAMPS	LLF	LUMENS PER LAMP	WATTAGE	FIXTURE HT (FT)	COLOR/FINISH
○	A	5	LITHONIA LIGHTING	RAD 1 LED P2 27K SYM HS R90	RADEAN ARM MOUNT WITH P2 2700K SYMMETRIC DISTRIBUTION WITH HOUSE-SIDE SHIELD WITH RIGHT ROTATED OPTICS, FULL CUTOFF	1	1	5000	38	15	TEXTURED BLACK (POLE TO MATCH)
○	B	6	LITHONIA LIGHTING	RAD 1 LED P1 30K SYM	RADEAN ARM MOUNT WITH P1 3000K SYMMETRIC DISTRIBUTION, FULL CUTOFF	1	1	3000	25.4	15	TEXTURED BLACK (POLE TO MATCH)
○	C	11	LITHONIA LIGHTING	KBD8 LED 12C 350 30K ASY MVOLT	KBD8 WITH 3 LIGHT BOARDS (12 LEDS), 350MA DRIVER, 3000K COLOR TEMP, AND ASYMMETRIC OPTIC, FULL CUTOFF	1	1	640	16.0	3.5	TEXTURED BLACK
○	D	2	LITHONIA LIGHTING	RAD 1 LED P1 27K PATH	RADEAN ARM MOUNT WITH P1 2700K PATHWAY DISTRIBUTION, FULL CUTOFF	1	1	3000	25.4	15	TEXTURED BLACK (POLE TO MATCH)
⌒○	E	6	LUMINIS	SR-365-L1L15-40K	LUMINIS SCIROCCO SERIES LED LUMIMAIRE WITH TRANSLUCENT JAR REFRACTOR	1	1	1750	28.3	15	BLACK (WALL MOUNT TO MATCH)
▫	F	4	LUMINIS	BVA11W-L1L10-LD1-40K	BVA11W	1	1	904	11.4	10	BLACK

NOTES:
1. EACH OUTDOOR LUMINAIRE EQUIPPED WITH A LAMP THAT EMITS 3,000 OR MORE INITIAL LUMENS SHALL BE A FULL CUTOFF LUMINAIRE AND SHALL BE ARRANGED OR SHIELDED TO REFLECT LIGHT AWAY FROM ADJOINING RESIDENTIAL DISTRICTS AND AWAY FROM ADJACENT ROADS. THE SPILLOVER OF LIGHTING FROM LUMINAIRES ONTO PUBLIC ROADS AND PROPERTY IN RESIDENTIAL OR RURAL AREAS ZONING DISTRICTS SHALL NOT EXCEED ONE HALF FOOTCANDLE.
2. POLE MOUNTED LIGHTS SHALL NOT EXCEED 20' HEIGHT. PROPOSED HEIGHT IS 15', INCLUDING THE BASE.



1 PHOTOMETRIC PLAN
1" = 20': 0 20 40

PHOTOMETRICS PLAN

CORNERSTONE COMMUNITY CHURCH
FINAL SITE PLAN SDP-2025-00022
ALBEMARLE COUNTY, VIRGINIA

COMMONWEALTH OF VIRGINIA
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C7.0

L+G PROJECT NUMBER: 2304003

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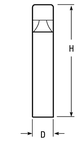
KBD8 LED
LED Specification Bollard

BAA BABA

Specifications

Height: 42" (106.7 cm)

Weight (max): 27lbs (12.25 kg)



Catalog Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

Introduction

The KBD8 Bollard is a stylish, fully integrated LED solution for walkways. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance.

With an expected service life of over 20 years of nighttime use and up to 70% in energy savings over comparable 100W metal halide luminaires, the KBD8 Bollard is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

Performance Data

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Actual wattage may differ by +/- 8% when operating between 120-480V +/- 10%.

Light Engines	Drive Current	System Watts	3000K					4000K					5000K					Limited Wavelength Amber				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
Asymmetric 3 Engines (12 LEDs)	350	16	641	40	1	1	1	809	51	1	1	1	870	54	1	1	1					
	530	22	947	43	1	1	1	1,191	54	1	1	1	1,282	58	1	1	1					
	700	31	1,214	40	1	1	1	1,527	51	1	1	1	1,646	55	1	1	1					
	Amber 450	16																324	20	0	1	0
Symmetric 4 Engines (16 LEDs)	350	20	888	44	1	0	0	1,116	56	1	0	0	1,203	60	1	0	0					
	530	28	1,254	45	1	0	0	1,598	57	1	0	1	1,719	61	1	0	1					
	700	39	1,608	41	1	0	1	2,022	52	1	0	1	2,180	56	2	0	1					
	Amber 450	20																374	19	0	0	0

Note: Available with phosphor-converted amber LED's (nomenclature AMBPC). These LED's produce light with 97+% >530 nm. Output can be calculated by applying a 0.7 factor to 4000 K lumen values and photometric files.

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.00	0.98	0.97	0.95

Electrical Load

Light Engines	Drive Current (mA)	System Watts	Current (A)				
			120	208	240	277	347
12C	350	16W	0.158	0.118	0.114	0.109	0.105
	530	22W	0.217	0.146	0.136	0.128	0.118
	700	31W	0.296	0.185	0.168	0.153	0.139
	Amber 450	16W	0.161	0.120	0.115	0.110	0.106
16C	350	20W	0.197	0.137	0.128	0.121	0.114
	530	28W	0.282	0.178	0.162	0.148	0.135
	700	39W	0.385	0.231	0.207	0.185	0.163
	Amber 450	20W	0.199	0.139	0.130	0.123	0.116

Ordering Information

EXAMPLE: KBD8 LED 16C 700 40K SYM MVOLT DDBXD

KBD8 LED

Series	LEDs	Drive current	Color temperature	Distribution	Voltage	Control options	Other options	Finish (required)
KBD8 LED	**Asymmetric** 12C 12 LEDs[1] **Symmetric** 16C 16 LEDs[2]	350 350 mA 450 450 mA[3,4] 530 530 mA 700 700 mA	30K 3000 K 40K 4000 K 50K 5000 K AMBPC Amber phosphor converted AMBLW Amber limited wavelength[3,5]	ASY Asymmetric[1] SYM Symmetric[2]	MVOLT[6] 120[7] 208[7] 240[7] 347[4]	**Shipped installed** PE Photoelectric cell, button type DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) AMBLW Amber limited wavelength[3,5] ELCW Emergency battery backup, CA Title 20 Noncompliant[8]	**Shipped installed** SF Single fuse (120, 277, 347V)[1,2] DF Double fuse (208, 240V)[1] H24 24" overall height H30 30" overall height H36 36" overall height FG Ground-fault festoon outlet L/AB Without anchor bolts (3 bolt base) L/ABA 4 bolt retrofit base without anchor bolts[8]	DWHXD White DNAXD Natural aluminum DDBXD Dark bronze DBLXD Black DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

Accessories

Ordered and shipped separately.

MRAB U Anchor bolts for KBD8 LED[8]

NOTES

1. Only available in the 12C, ASY version.
2. Only available in the 16C, SYM version.
3. Only available with 450 AMBLW version.
4. Not available with ELCW.
5. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options), or photocontrol (PE option).
6. Not available with 347V. Not available with fusing. Not available with 450 AMBLW.
7. Single fuse (SF) requires 120, 277, or 347 voltage option. Double fuse (DF) requires 208 or 240 voltage option.
8. MRAB U not available with L/ABA option.

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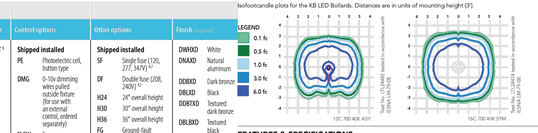
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's KBD8 Bollard homepage.

Isofootcandle plots for the KB LED Bollards. Distances are in units of mounting height (3').



FEATURES & SPECIFICATIONS

INTENDED USE
The rugged construction and clean lines of the KBA bollard is ideal for illuminating building entryways, walking paths, and pedestrian plazas, as well as any other location requiring a low mounting height light source with fully cutoff illumination.

CONSTRUCTION
One-piece 8-inch round extruded aluminum shaft with thick side walls for extreme durability, a high-impact clear acrylic lens and welded top cap. Die-cast aluminum mounting ring allows for easy leveling even in sloped locations and a full 360-degree rotation for precise alignment during installation. Three ½" x 11" anchor bolts with double nuts and washers and 3 ¼" bolt circle template ensure stability. Overall height is 42" standard.

FINISH
Exterior parts are protected by a zinc-infused super durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering for maximum retention of gloss and luster. A tightly controlled multi-stage process ensures a minimum 3 mil thickness for a finish that can withstand the elements without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS
Two fully cutoff optical distributions are available: symmetrical and asymmetrical. IP66 sealed LED light engine provides smoothly graduated illumination without any uplight. Light engines are available in standard 4000 K (>70 CRI) or optional 3000 K (>80 CRI) or 5000 K (67 CRI). Limited-wavelength amber LEDs are also available.

ELECTRICAL
Light engines consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (L95/100,000 hours at 700mA at 25°C). Class 2 electronic drivers are designed for an expected life of 100,000 hours with < 1% failure rate. Electrical components are mounted on a removable power tray.

LISTINGS
CSA certified to U.S. and Canadian standards. Light engines are IP66 rated. Rated for -40°C minimum ambient. Cold-weather emergency battery backup rated for -20°C minimum ambient.

GOVERNMENT PROCUREMENT
BAA – Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations.
BABA – Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY
Five-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

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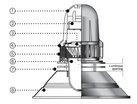
LUMINIS®

SR366
SCIROCCO
WALL

PROJECT NAME: QUANTITY: TYPE:

ORDERING CODE:



1. Cast aluminum driver housing.
2. Universal driver tray with twist lock design.
3. Sealed and isolated LED compartment.
4. Housing/shade assembly hinge mechanism.
5. Cast aluminum LED heat dissipator.
6. Borosilicate prismatic heavy glass diffuser.
7. Set of cast aluminum louver rings.
8. Structurally reinforced perimeter aluminum shade. Inner surface is standard white enamel for increased light performance.

SR366

MATERIALS

Scirocco is made of corrosion resistant 356 aluminum alloy with a copper (CU) content of less than 0.1%. The top cast aluminum housing is designed with a hinged mechanism. The hard aluminum shade assembly is designed with a set of perimeter reinforcement ribs. The inner surface is standard white enamel for higher light efficiency. The lower optical assembly includes sealed borosilicate prismatic glass diffuser, which is secured with a silicone memory retention gasket. The diffuser is enclosed in a star ribbed one piece cast aluminum cage.

ELECTRICAL DRIVER

Driver is 0-10V dimming-ready (dims to 10%) with: 120-277 multi-volt compatibility (50-60Hz), operating temperature range of -30°C/-22°F to 60°C/140°F, output over voltage protection, output over current protection and output short circuit protection with auto-recovery.

LED LIGHT ENGINE

Offered in 3000K, 3500K, 4000K with 80 CRI. 70% LED lumen maintenance at 60,000 hours (L70/60,000) based on IESNA LM-80-08 LED extrapolated life, calculated per IESNA TM-21-21.

FINISH

Five-stage preparation process including preheating of cast aluminum parts for air pocket extraction, and an environmentally friendly alloy sealant. Polyester powder coating is applied through an electrostatic process and oven cured for long term finish.

CERTIFICATION

UL Certified to Canadian and U.S. safety standards. Certified for use in wet locations. Rated IP65. Photometric testing performed by an independent laboratory in accordance with IES LM-79-08 standards at 25°C. Actual performance may differ as a result of end-user environment and application.

WARRANTY

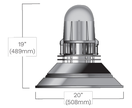
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: https://www.luminis.com/technical/warranty/

MOUNTING

The mounting plate is designed to fit on a 4" (102mm) octagonal electrical box using 3.5" (89mm) C/C mounting holes.

MEASUREMENTS

Maximum weight: 19 lbs (8.6 kg)



EPA: 0.85

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LUMINIS®

SR366
SCIROCCO
WALL

ORDERING CODE

*SERIES	*LIGHT OUTPUT	*CCT	*VOLTAGE	*MOUNTING	FUSE
SR366	L1L15 1482 lm / 29W L1L30 2804 lm / 53W	30K 3000K 35K 3500K 40K 4000K	120 120V 277 277V 347 347V 480 480V HVOLT 347V-480V MVOLT 120V-277V	WM45 Wall mount w/45˚ support WMS Wall mount shepherd arm attachment WM Wall mount	FS Fuse

Delivered lumens calculated at 4000K/80CRI. Typical power consumption. Refer to LCF table for outputs at other CCTs.

PHOTOCELL	SHIELDING ACCESSORIES	*FINISH	ENVIRONMENT
PH Photocell[1]	HS House side shield	~~DKT Jet black~~ BZT Bronze CHT Champagne DGT Gun metal GRT Titanium gray MST Matte silver SGT Steel gray WHT Snow white CMC Custom matched color[2] RAL RAL color[3]	MG Marine grade paint[4]

NOTES
*- Denotes a required field
1- Not available with 480 or HVOLT.
2- Contact factory to coordinate custom matching color.
3- Specify RAL number.
4- Marine grade paint for harsh, coastal environment and exposure to salt water. Additional delay required.

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1 BOLLARD DETAIL

Radean Arm Mount
LED Area Luminaire

BAA BABA

Specifications

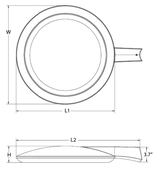
EPA: 0.75 ft² (0.05 m²)

Length:
L1 24" (61cm)
L2 30" (60.96 cm)

Width: 24" (61cm)

Height: 4" (10.2cm)

Weight (max): 29lbs (13.15Kg)



Catalog Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

Introduction

The RADEAN arm mount luminaire is the perfect choice for pedestrian applications where daytime aesthetics and visual comfort are needed. Adding architectural flair to any space, the RADEAN's low-profile shape and smooth curves blend in while adding a touch of elegance.
Perfect for campuses, parks, pedestrian malls, courtyards and pathways, the RADEAN arm mount is the Architect's choice to provide beautiful aesthetics both day and night.

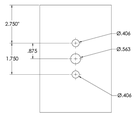
Mounting

Recommended Poles for use with RADEAN RAD1 LED Luminaires.

Acuity Part Number	Description	For luminaires:	Used with Mounting
RSS 10 4B DM19RAD DDBXD	10' Round Straight Steel - Template #20 Drilling	RAD1 LED	RPA
RSS 12 4B DM19RAD DDBXD	12' Round Straight Steel - Template #20 Drilling	RAD1 LED	RPA
RSS 14 4B DM19RAD DDBXD	14' Round Straight Steel - Template #20 Drilling	RAD1 LED	RPA
RSS 16 4B DM19RAD DDBXD	16' Round Straight Steel - Template #20 Drilling	RAD1 LED	RPA
RSS 18 4B DM19RAD DDBXD	18' Round Straight Steel - Template #20 Drilling	RAD1 LED	RPA
RSS 20 4B DM19RAD DDBXD	20' Round Straight Steel - Template #20 Drilling	RAD1 LED	RPA
RSS 25 4B DM19RAD DDBXD	25' Round Straight Steel - Template #20 Drilling	RAD1 LED	RPA
SSS 10 4C DM19RAD DDBXD	10' Square Straight Steel - Template #20 Drilling	RAD1 LED	SPA
SSS 12 4C DM19RAD DDBXD	12' Square Straight Steel - Template #20 Drilling	RAD1 LED	SPA
SSS 14 4C DM19RAD DDBXD	14' Square Straight Steel - Template #20 Drilling	RAD1 LED	SPA
SSS 16 4C DM19RAD DDBXD	16' Square Straight Steel - Template #20 Drilling	RAD1 LED	SPA
SSS 18 4C DM19RAD DDBXD	18' Square Straight Steel - Template #20 Drilling	RAD1 LED	SPA
SSS 20 4C DM19RAD DDBXD	20' Square Straight Steel - Template #20 Drilling	RAD1 LED	SPA
SSS 25 4C DM19RAD DDBXD	25' Square Straight Steel - Template #20 Drilling	RAD1 LED	SPA

* Customer must verify pole loading per required design criteria and specified wind speed. Consult pole specification sheet for additional details.

Drilling Template #20



RAD1 has a unique drilling pattern. Specify this drilling pattern when specifying poles, per the table below.

DM19RAD	Single unit	**DM29RAD**	2 at 90° [1,2]
DM28RAD	2 at 180°	**DM39RAD**	3 at 90° *
DM49RAD	4 at 90° [1]	**DM52RAD**	3 at 120°

Example: SSA 20 4C **DM19RAD** DDBXD

Visit Lithonia Lighting's POLES CENTRAL to see our wide selection of poles, accessories and educational tools.

1. Round pole top must be 4.25" O.D. minimum.
2. Square pole top must be 3.125" O.D. minimum.

Ordering Information

EXAMPLE: RAD1 LED P3 30K SYM MVOLT RPA PE DNAXD

RAD1 LED

Series	Performance package	Color temperature	Distribution	Voltage	Mounting
RAD1 LED	P1 3,000 Lumens P2 5,000 Lumens P3 7,000 Lumens P4 11,000 Lumens P5 16,000 Lumens	27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K	SYM Symmetric type V ASY Asymmetric type IV PATH Pathway type III	MVOLT[2] 120[1] 208[1] 240[1] 277[1] 347[1] 480	SPA Square pole mounting (includes adapter) RPA Round pole mounting WBA Wall bracket

Control options	Other options		Finish (required)	
Shipped installed NLTAIR2 nLight AIR 2.0 enabled[3] PE Button photocell[3] FAO Field adjustable output[3] DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately)	SF Single Fuse[1] DF Double Fuse[1] L90 Left rotated optics R90 Right rotated optics	**Shipped separately** HS Houseside shield[4]	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White	DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

Accessories

Ordered and shipped separately.

RAD HS Houseside shield (shield is white)
RAD CS Decorative clamshell base for 4" RSS pole (specify finish)
RAD FBC Full base cover for 4" RSS pole (specify finish)

For more control options, visit ROAM and NLTAIR2 online.

NOTES

1. 2700K and 3500K may require extended lead-times.
2. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
3. NLTAIR2 not available with PE or FAO. Must link to external nLight Air network. Does not include occupancy sensor. For more information refer to ROAM pole mount sensor.
4. DMG not available with NLTAIR2 or FAO.
5. Also available as a separate accessory; see Accessories information. Shield is field rotatable in 45° increments.

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2 CHURCH FACADE LIGHTS

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Contact factory for performance data on any configurations not shown here.

Performance Package	Input Wattage	Distribution	2700K					3000K					3500K					4000K					5000K				
			Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	25	ASY	3,103	1	0	1	122	3,207	1	0	1	126	3,285	1	0	1	129	3,362	1	0	1	132	3,362	1	0	1	132
		PATH	2,695	2	0	2	106	2,785	2	0	2	110	2,853	2	0	2	112	2,920	2	0	2	115	2,920	2	0	2	115
		SYM	3,271	2	0	1	129	3,380	2	0	1	133	3,461	2	0	1	136	3,543	2	0	1	139	3,543	2	0	1	139
P2	38	ASY	4,798	1	0	2	126	4,958	1	0	2	130	5,078	2	0	2	134	5,198	2	0	2	137	5,198	2	0	2	137
		PATH	4,167	2	0	2	110	4,306	3	0	3	113	4,410	3	0	3	116	4,514	3	0	3	119	4,514	3	0	3	119
		SYM	5,056	2	0	1	133	5,225	3	0	1	137	5,351	3	0	1	141	5,478	3	0	1	144	5,478	3	0	1	144
P3	54	ASY	6,779	2	0	2	126	7,005	2	0	2	131	7,174	2	0	2	134	7,344	2	0	2	137	7,344	2	0	2	137
		PATH	5,887	3	0	3	110	6,084	3	0	3	113	6,231	3	0	3	116	6,378	3	0	3	119	6,378	3	0	3	119
		SYM	7,144	3	0	2	133	7,382	3	0	2	138	7,561	3	0	2	141	7,739	3	0	2	144	7,739	3	0	2	144
P4	86	ASY	10,773	3	0	3	126	11,132	3	0	3	130	11,401	3	0	3	133	11,671	3	0	3	136	11,671	3	0	3	136
		PATH	9,356	3	0	3	109	9,668	3	0	3	113	9,902	3	0	3	116	10,136	3	0	3	118	10,136	3	0	3	118
		SYM	11,353	3	0	2	133	11,731	3	0	2	137	12,015	3	0	2	140	12,299	3	0	2	144	12,299	3	0	2	144
P5	122	ASY	15,001	3	0	3	123	15,501	3	0	3	127	15,876	3	0	3	130	16,251	3	0	3	133	16,251	3	0	3	133
		PATH	13,028	4	0	4	107	13,462	4	0	4	110	13,788	4	0	4	113	14,114	4	0	4	116	14,114	4	0	4	116
		SYM	15,808	4	0	3	130	16,335	4	0	3	134	16,731	4	0	3	137	17,126	4	0	3	140	17,126	4	0	3	140

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		LAT Factor
0°C	32°F	1.06
5°C	41°F	1.05
10°C	50°F	1.04
15°C	59°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.96

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **RAD1 LED P5** platform in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

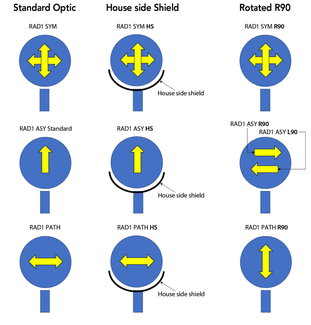
Projected LED Lumen Maintenance				
	0	25,000	50,000	100,000
P1	1.00	0.96	0.91	0.82
P2	1.00	0.96	0.91	0.82
P3	1.00	0.96	0.91	0.82
P4	1.00	0.96	0.91	0.82
P5	1.00	0.95	0.89	0.78

Electrical Load

Lumen Package	LED Drive Current	Voltage	Wattage		Current (A)					
					120	208	240	277	347	480
P1	500	42.8	21.4	Input Current	0.22	0.13	0.11	0.1	0.08	0.06
				System Watts	26	26	26	27	25	26
P2	770	43	33.1	Input Current	0.33	0.19	0.16	0.14	0.11	0.08
				System Watts	39	39	39	39	38	38
P3	1100	43.2	47.5	Input Current	0.46	0.26	0.23	0.2	0.16	0.12
				System Watts	55	54	54	54	54	54
P4	900	87.3	78.6	Input Current	0.73	0.42	0.36	0.32	0.25	0.18
				System Watts	87	86	86	86	86	86
P5	1250	88.2	110.2	Input Current	1	0.58	0.5	0.44	0.35	0.25
				System Watts	120	119	119	119	120	120

Orientation Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's RAD1 LED homepage.



FEATURES & SPECIFICATIONS

INTENDED USE
Pedestrian areas such as parks, campuses, pathways, courtyards and pedestrians malls.

CONSTRUCTION
Single-piece die-cast aluminum housing with nominal wall thickness of 0.125" on a 6mm thick acrylic waveguide is fully gasketed with a single piece tubular silicone gasket.

FINISH
Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum and white. Available in textured and non-textured finishes.

OPTICS
6MM thick acrylic waveguide with 360° flexible LED board. Available in 2700K, 3000K, 3500K, 4000K and 5000K (80CRI) CCT configurations.

ELECTRICAL
Light engine consists of 96 high-efficacy LEDs mounted to a flexible circuit board and aluminum heat sink, ensuring optimal thermal management and long life. Fixtures ship standard with 0-10v dimming driver (order option DMG for connection to exterior controls). Class 1 electronic driver has a power factor >90%, THD <20%, with an expected life of 100,000 hours with <1% failure rate. Serviceable 10kV surge protection device meets a minimum Category C Low for operation (per ANSI/IEEE C62.41.2).

INSTALLATION
Included luminaire and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls.

LISTINGS
CSA certified to U.S. and Canadian standards. Luminaire is IP65 rated. Rated for -40°C minimum ambient.
DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified. International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color or less.

GOVERNMENT PROCUREMENT
BAA – Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations.
BABA – Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act.
Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions
Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

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3 POLE MOUNTED FIXTURE DETAIL

PHOTOMETRIC DETAILS

CORNERSTONE COMMUNITY CHURCH
FINAL SITE PLAN SDP-2025-00022
ALBEMARLE COUNTY, VIRGINIA

COMMONWEALTH OF VIRGINIA
09/15/2025
KENDRA G. MOON
LIC. NO. 0402064650
PROFESSIONAL ENGINEER

SUBMISSIONS/REVISIONS
3 - 09/15/2025
REVS PER COMMENTS
2 - 07/21/2025
REVS PER COMMENTS
1 - 03/03/2025
FIRST SUBMITTAL

LINE AND GRADE
Civil Engineering

C7.1

L+G PROJECT NUMBER: 2304003

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LUMINIS®

PROJECT NAME: **QUANTITY:** **TYPE:**

ORDERING CODE:

① Front cover constructed of corrosion resistant aluminum.
② 4.5" (114mm) x 6" (152mm) Extruded aluminum optical chamber.
③ Available in configurations of 9 LEDs or 18 LEDs.
④ Clear tempered glass.
⑤ All stainless steel hardware.

BVA11W

BVA12W

MATERIALS

Bellevue wall mount is made of 6063-T6 extruded aluminum alloy. LED board is assembled on a thick extruded aluminum profile and protected by a clear tempered glass. The acrylic optics provide a wide range of IES type distribution. The driver is mounted inside the fixture for ease of maintenance.

ELECTRICAL DRIVER

Driver is 120-277V multi-volt compatibility (50-60Hz), 0-10V dimming-ready (dims to 10%). Optional 347/480V, operating temperatures of –40°C/-40°F to 55°C/131°F, output over voltage protection, output over current protection, output short circuit protection with auto-recovery.

LED LIGHT ENGINE

Type I, II, III, IV light distribution via high performance optical lenses. Offered in 2700K, 3000K, 3500K, 4000K / 80 CRI. 70% LED lumen maintenance at 60,000 hours (L70/B50) based on IESNA LM-80-08 LED extrapolated life, calculated per IESNA TM-21-21.
Optional true amber LED for turtle sensitive areas.
Wavelengths: 584.5nm to 597nm.

FINISH

Five-stage preparation process includes preheating of cast aluminum parts for air extraction. Polyester powder coating is applied through an electrostatic process, and oven cured for long term finish.

CERTIFICATION

UL Certified to Canadian and U.S. safety standards. Certified for use in wet locations. Rated IP65. Rated IK10. Photometric testing performed by an independent laboratory in accordance with IES LM-79-08 standards at 25°C. Actual performance may differ as a result of end-user environment and application.

WARRANTY

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: https://www.luminis.com/technical/warranty/

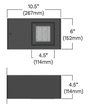
MOUNTING

Bellevue wall mount is designed for ease of access and installation. The head is secured on a mounting plate by one set screw. The mounting plate is designed to fit on a 4" (102mm) octagonal electrical box. Fixture lighting must point to the ground at all time.

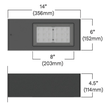
MEASUREMENTS

Maximum weight: 11 lbs (5.0 kg)

BVA11W



BVA12W



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ORDERING CODE

*SERIES	*LIGHT OUTPUT	*DISTRIBUTION	*CCT[1]	*VOLTAGE	CONDUIT COVER
BVA11W	Static White **L1L10** 904 lm / 11w **L1L16** 1384 lm / 19w **L1L24** 1976 lm / 30w True Amber **L1LK2A** 262 lm / 8w[1] **Delivered lumens calculated at 4000K/80CRI except for amber. Type IV distribution. Refer to reference table for outputs at other distribution types. Typical power consumption. Refer to LCF table for outputs at other CCTs.**	**LD1** Type I **LD2** Type II **LD3** Type III **LD4** Type IV	**27K** 2700K **30K** 3000K **35K** 3500K **40K** 4000K **AMB** Wavelengths: 585nm to 597nm	**120** 120V **277** 277V **347** 347V **480** 480V **HVOLT** 347V-480V **MVOLT** 120V-277V	**SWK** Decorative cover for 3/4" conduit junction box[3]

FUSE	PHOTOCELL	SURGE PROTECTOR	*FINISH	ENVIRONMENT
FS Fuse	**PH** Photocell[4]	**SP** Surge protector 10kV	**BKT** Jet black **BZT** Bronze **CHT** Champagne **DGT** Gun metal **GRT** Titanium gray **MST** Matte silver **SGT** Steel gray **WHT** Snow white **CMC** Custom matched color[6] **RAL** RAL color[6]	**MG** Marine grade paint[7] **NT** Natatorium suitable[8]

NOTES
*- Denotes a required field
1- Available only with AMB option.
2- For 22A certification compliance, luminaire must be ordered with 3000K or warmer.
3- Painted to match fixture color.
4- Not available with 480 or HVOLT.
5- Contact factory to coordinate custom matching color.
6- Specify RAL number.
7- Marine grade paint for harsh, coastal environment and exposure to salt water. Additional delay required.
8- Only available in WHT and BKT.

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MOUNTING DETAILS

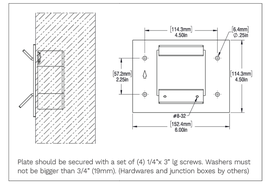
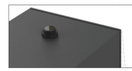
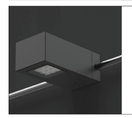


Plate should be secured with a set of (4) 1/4"x 3" lg screws. Washers must not be bigger than 3/4" (19mm). (Hardwares and junction boxes by others)

OPTION DETAILS



PH
Button-size photocell mounted on top of the fixture as shown. Instant turn-on, standard 5-10 second turn-off time delay.



SWK
Surface wall mounting option with 3/4" NPT conduit adaptor. (Conduit and adaptor by others) Supplied with 5x18AWG/36" lg. wiring (longer wires to be specified).

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1 CHURCH WALL LIGHTS - SIDE AND REAR

PHOTOMETRIC DETAILS

CORNERSTONE COMMUNITY CHURCH
FINAL SITE PLAN SDP-2025-00022
ALBEMARLE COUNTY, VIRGINIA

COMMONWEALTH OF VIRGINIA
09/15/2025
KENDRA G. MOON
Lic. No. 0402063650
PROFESSIONAL ENGINEER

SUBMISSIONS/REVISIONS
3: 09/15/2025
REVS PER COMMENTS
2 - 07/21/2025
REVS PER COMMENTS
1 - 03/03/2025
FIRST SUBMITTAL

LINE AND GRADE
Civil Engineering

C7.2

L+G PROJECT NUMBER: 2304003