

File No. 1510004 Fee: 394.92
Supersedes File No.(s) FDA-3-2015 or none
Scheduled Public Hearing Date: 11/18/15

Check or Receipt#: 2336
Initials: SW
Date Received 10/1/15

**APPLICATION FOR CERTIFICATE OF APPROPRIATENESS
DESIGN REVIEW**

CITY OF GAHANNA PLANNING COMMISSION

DR-10-2015

subgard parcel # 027-000101-5195-5001

***Required Information**

*Site Address 5195 - 5221 Morse Road Gahanna, OH
*Parcel ID# 027-000101, 025-011232, 027-000100, 027-000102, *Zoning District SO-Suburban Office
*Business Name JEA Senior Living / Development *Contact Carl Sanders - VP of Development
*Business Owner Name See above & Representative *Phone# 503-559-4782
*Business Address 5101 NE 82nd Ave, Suite 200 Vancouver, WA 98662
*Applicant Name JEA Senior Living - Rachel Rudiger *Applicant Email rachel.rudiger@jeacorp.com
*Applicant Full Address 13242 Galena Way Apple Valley, MN 55124
*Applicant Phone# 360-977-0175 Applicant Fax# NA
*Designer/ Architect/ Engineer Mike Wohlwend (Engineer)
*Address 4216 Karg Industrial Way *Phone 330-673-2400 Email: mikew@w-enggroup.com
*City/ State/ Zip Kent, OH 44240 Fax NA
*D/A/E Representative Rachel Rudiger & Mike Wohlwend Title Designer & Engineer
*Design Review of: Site Plan X Landscaping X Building Design X Signage Other
*Special Information Regarding the Property and its Proposed Use: 1 Story 66 Bed Alzheimer Special Care Center focusing exclusively on Alzheimer's, dementia and related memory issues that afflict our aging seniors.

PAID
OCT 01 2015
RECEIVED
OCT 01 2015
SW 2336

Submission Requirements

- (1) Applicant is required to complete the checklist on the following pages.
 - (2) Fee: \$50.00 for review plus \$.01 per square foot.
 - (3) Eleven copies of plans: Two (2) copies of 24x36 (folded, **not rolled**, to 8 1/2 x 11 inch size prior to submission) & nine (9) 11x17.
 - (4) Submit one (1) reduced drawing suitable to an 8 1/2 x 11 inch size.
 - (5) Submit one (1) color rendering of the project in plan/ perspective/ or elevation, mounted on 18 x 24 inch size foam core, gator board or other acceptable material.
 - (6) Submit a detailed list of materials.
- *Note: This application will not officially be accepted until **all** items listed above have been received.
**Note: Planning Commission members and/or City Staff may visit the property prior to the hearing to review the application.

Rachel Rudiger 9/28/15
*Applicant's Signature *Date

APPROVAL

In accordance with Sections 1197.05 of the Codified Ordinances of Gahanna, this certifies that this project, as stated above, has been approved by the Gahanna Planning Commission on _____. The applicant shall comply with any conditions approved by the Commission, and shall comply with all building and zoning regulations now in force.
Conditions: _____

SUBMITTAL REQUIREMENTS

	Applicant Or Agent	Planning & Zoning Administrator
I. GENERAL REQUIREMENTS		
A. All exhibits required for the permanent file (noted in the following paragraphs) must be able to be reduced to 8 ½ x 11 by folding, photo reduction, etc. (ALL 24x36 PLANS ARE TO BE FOLDED BY APPLICANT PRIOR TO SUBMISSION.) While large mounting boards, material samples, or other exhibits not meeting this criteria maybe used for Planning Commission presentation, the Commission does appreciate the use of the audio visual system whenever possible.	A. <input checked="" type="checkbox"/>	<input type="checkbox"/>
B. Eleven (two 24x 36, nine 11x 17) black or blue-line prints of the plans including the items listed in section II below shall be submitted to the Planning & Zoning Administrator for presentation to the Planning Commission.	B. <input checked="" type="checkbox"/>	<input type="checkbox"/>
C. An adequate number of color photographs (Polaroid-type acceptable) are required to illustrate the site, including buildings and other existing features as well as adjacent properties. Photos may also be used to illustrate installations on other sites that are similar to the applicant's proposal.	C. <input checked="" type="checkbox"/>	<input type="checkbox"/>
D. Materials List	D. <input checked="" type="checkbox"/>	<input type="checkbox"/>
II. BUILDING CONSTRUCTION, EXTERIOR REMODELING, AND ADDITIONS (INCLUDING PARKING LOTS AND LANDSCAPING)		
A. Site Plan. A site plan is required containing the following information:		
1. Scale and north arrow,	1. <input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Project name and site address;	2. <input checked="" type="checkbox"/>	<input type="checkbox"/>
3. All property and street pavement lines;	3. <input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Existing and proposed contours; GRADING PLAN	4. <input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Gross area of tract stated in square feet;	5. <input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Proposed ingress and egress to the site, including on site parking area(s), parking stalls and adjacent streets. Delineate traffic flow with directional arrows and indicate the location of direction signs or other motorist's aids (if any);	6. <input checked="" type="checkbox"/>	<input type="checkbox"/>
7. The designation of required buffer screens (if any) between the parking area and adjacent property;	7. <input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Location of all isolated existing trees having a diameter of six (6) inches or more; (Tree masses may be shown with a diagrammatic outline and a written inventory of individual trees exceeding 6" in caliber);	8. <input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Existing landscaping that will be retained and proposed landscaping shall be differentiated and shown on the plan. The type, size, number, and spacing of all plantings and other landscape features must be illustrated; LANDSCAPE PLAN	9. <input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Identify photograph location;	10. <input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Location of all existing and proposed building on the site	11. <input checked="" type="checkbox"/>	<input type="checkbox"/>
12. Location of all existing (to remain) and proposed lighting standards.	12. <input checked="" type="checkbox"/>	<input type="checkbox"/>
13. Provide breakdown of parking spaces required and spaces provided (see COG 1163);	13. <input checked="" type="checkbox"/>	<input type="checkbox"/>

14. Provide interior landscaping breakdown for paved surface (5% of paved surface required to be landscaped with one (1) tree per 100 square feet, see COG 1163)

14. _____

15. Provide lot coverage breakdown of building and paved surface areas.

15. _____

B. Elevations. Complete elevation from all sides of all proposed construction labeled North, South, East and West and related elevations of existing structures (if any) are required containing the following information:

1. Scale;

1. _____

2. Changes in ground elevation;

2. _____

3. All signs to be mounted on the elevations;

3. _____

4. Designation of the kind, color, and texture of all primary materials to be used;

4. _____

5. Fenestration, doorways, and all other projecting and receding elements of the building exterior.

5. _____

C. Optional requirements at discretion of Planning Commission.

1. Scale model.

1. _____

2. Section Profiles.

2. _____

3. Perspective drawing.

3. _____

D. Material Samples. Material samples are required for all exterior materials. For presentation purposes, a narrative description is required for Planning Commission file.

D. _____

E. Lighting Standard Drawing. A scaled drawing of the proposed lighting standard(s) is required and should contain the following information:

1. All size specifications;

1. _____

2. Information on lighting intensity (number of watts, isofootcandle diagram, etc., at least 1/2 foot candles required);

2. _____

3. Materials, colors, and manufacturer's cut sheet;

3. _____

4. Ground or wall anchorage details.

4. _____

September 25, 2015

JEA - Gahanna, OH – Material List Narrative

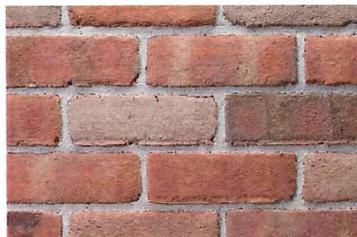
Below, are our proposed material/color selections for Gahanna, OH Alzheimer Special Care Center. Most of the surrounding Existing Residential homes and multi-family has Red Brick with White Siding. While the Commercial Building to the west of our site has an exterior pallet of a Buff Colored Stucco with a Neutral Buff Stone. Our goal is to provide an exterior that compliments and fits with both the existing commercial and residential architecture in the area.

We are proposing to us a Brick Accent to maintain the residential feel in the area. The Brick we have selected is a pallet of softer reds, buffs, and browns. This brick selection will complement the exterior colors of the building next door, while also providing some variety. A neutral siding color has been selected, Khaki Shade, that blends well with the surroundings, and is accompanied with a darker trim, Sandy Ridge.

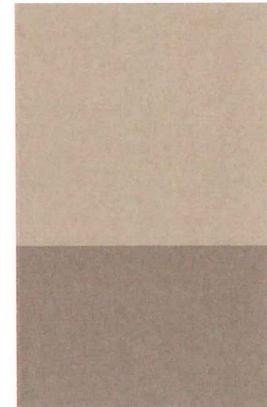
Weathered Wood – Comp Shingles



Belden Brick – Belcrest 550



Siding – SW Khaki Shade



Trim – SW Sandy Ridge

We look forward to discussing our project with you, as well as our exterior building colors and materials.

Thank you,

Rachel Rudiger
Land Use & Design Manager
JEA Senior Living
360-977-0175

MATERIAL LIST

Item	Manufacturer Name	Color Name	Color Number
Awnings	NA	NA	NA
Brick	Belden Brick Company	Belcrest 550	Belcrest 550
Gutters and Downspouts	TBD - Local Manufacturer (Color to match Trim)	Sherwin Williams Color: Sandy Ridge	SW 7535
Lighting	See Individual Specification Sheets Provided	Dark Bronze	See Individual Specification Sheets Provided
Roofing	Malarkey Roofing Products	Weathered Wood	NA
Siding	James Hardie Siding	Sherwin Williams Color: Khaki Shade	SW 7533
Signs	Ground Mounted Sign Only Brick with Stucco Face	Brick - Belcrest 550 Stucco - Khaki Shade	Brick - Belcrest 550 Stucco - SW 7533
Stucco	NA	NA	NA
Trim	James Hardie Trim	Sherwin Williams Color: Sandy Ridge	SW 7535
Windows	Jeld Wen Windows	Desert Sand	Desert Sand



CITY OF GAHANNA

Agreement to Build as Specified

Your signature below affirms that, as the applicant **Rachel Rudiger**
(Please Print - Applicant Name)

_____ for **JEA Senior Living / Development**
(Business Name and/or Address)

you will build the project as approved and specified by the Planning Commission for the City of Gahanna. You, as the applicant, also agree that any necessary change to the project must go back through Planning Commission process to amend the plans.

Applicant Signature _____ 
(Applicant Name/Applicant Representative)

Date 9/24/2015

SEE ATTACHED
(Signature of Notary)

(Date)

Stamp/Seal



Acknowledgment by Individual

State of Minnesota County of Dakota

On this 21st day of September, 20 15, before me, Gabriel Geisness
Name of Notary Public

the undersigned Notary Public, personally appeared

Rachel Rudiger

Name of Signer(s)

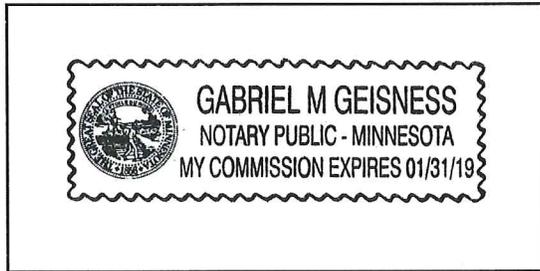
Proved to me on the oath of _____

Personally known to me

Proved to me on the basis of satisfactory evidence Minnesota Driver's License
(Description of ID)

to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged that he/she/they executed it.

WITNESS my hand and official seal.



Notary Seal

Gabriel Geisness
(Signature of Notary Public)

My commission expires January 31st, 2019

Optional: A thumbprint is only needed if state statutes require a thumbprint.

Right Thumbprint of Signer
Top of thumb here

Description of Attached Document

Type or Title of Document

Agreement to Build as Specified

Document Date

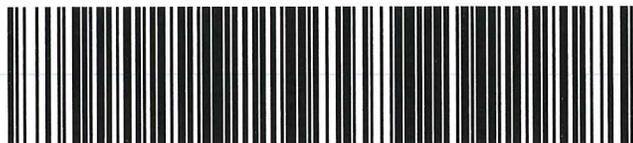
09/21/2015

Number of Pages

ONE

Signer(s) Other Than Named Above

None



FO01-00000DSG5350-01

September 25, 2015

JEA - Gahanna, OH – Site Surrounding Photos

Below is the proposed Site Area, outlined in Red. On the following pages, photos are provided illustrating current buildings on the site, existing buildings adjacent to the site, and other existing features. The numbers listed on the photo below correspond with the photos on the following pages.

Aerial Site & Surroundings



1. Existing Building on Site



2. Existing Multi-Family to the North



3. Existing Multi-Family to the North



4. Existing Multi-Family to the North



5. Wooded Parcel to the East



6. Existing Multi-Family to the South



7. Existing Commercial/Office Building to the West



8. Existing Multi-Family to the West



9. Existing Residential to the Northwest



September 10, 2015

From:

Colliers International

Abram M. Schwarz

Senior Associate

200 Public Square | Suite 1200

Cleveland, OH 44114 | United States

Direct +1 216 239 5072 | Main +1 216 239 5060

RE: JEA - Gahanna, OH – Contiguous Adjacent Property Owners

On September 10th, 2015 Colliers International provided JEA will all Contiguous Property Owners adjacent to and across the street from our Proposed Alzheimer Special Care Center Parcel. Below, please find a list of the Parcel IDs, Property Owners, and addresses. Also included is 2 sets of mailing labels to use as needed.

<u>Parcel ID</u>	<u>Name</u>	<u>Address</u>
025-011233-00	Pizzuti/Stonybrook Medical Center LLC	2 Miranova Pl, Suite 800, Columbus, OH 43215
025-011219-00	Morgan, Monica Morgan	6945 Walnut St., New Albany, OH 43054
010-282320-00	Kolik, Jan R	3661 Fish Hawk Landing, Columbus, Ohio 43230
010-274689-00	LC Preserve Crossing LLC	230 West St., Suite 200, Columbus, Ohio 43215
025-013467-00	Baker, Susan M	1351 Amberlea Dr. W, Columbus, Ohio 43230
025-013400-00	Jackson, Elizabeth S	1341 Amberlea Dr., Columbus, Ohio 43230
025-013607-00	Householder, Vicky L and Kenneth L	1318 Amberlea Dr., Columbus, Ohio 43230

Thank you,

Rachel Rudiger
Land Use & Design Manager
JEA Senior Living
360-977-0175

LIGHTING SPECIFICATIONS

HALO

DESCRIPTION

The Halo Surface LED Downlight (SLD) incorporates WaveStream™ technology to create an ultra-low profile surface mounting luminaire with the performance and look of a traditional downlight. SLD6 is designed for installation in many standard and fire-rated 3-1/2" and 4" square, octagon or round junction boxes. Suitable for residential or commercial installations. Ideal for closets, storage areas, attics and basements. Compliant with NFPA® 70, NEC® Section 410.16 (A)(3) and 410.16 (C) (5).

Catalog #		Type	
Project	OH-Gahanna	Date	D
Comments		Date	
Prepared by			

SPECIFICATION FEATURES

CONSTRUCTION

- Die cast aluminum trim ring, and die formed aluminum frame

OPTICS

- WaveStream™ technology provides uniform luminance from a low profile flat lens
- AccuAim™ optics provide directional control for the "cone-of-light" beam distribution of a traditional downlight
- Precision molded lens features high transmission polymer with UV stabilized protecting film

DESIGNER TRIMS

Accessories (sold separately)

SLD designer trims are accessory rings that attach to the SLD for a permanent finish. Refer to SLD accessories specification sheet for details.

- White (Paintable)
- Satin Nickel
- Tuscan Bronze

ELECTRICAL JUNCTION BOX MOUNTING

- SLD may be used in compatible electrical junction boxes in direct contact with insulation including spray foam insulation
- Suitable for installation in many standard and fire-rated 3-1/2" and 4" square, octagon, and round electrical junction boxes
Note: Driver consumes 3 cubic inches of junction box
- Surface mounting in a fire-rated electrical box offers a cost-effective alternative to fire-rated recessed housings
Note: Fire-rating is per listing of the junction box, not the SLD.
- Installer must ensure compatibility of fit, wiring and proper mounting in the electrical junction box. This

includes all applicable national and local electrical and building codes

- Proprietary Slot-N-Lock quick installation system for junction box installation
- T-bracket with Slot-N-Lock mounting tabs included

LED

- Trilateral linear LED assembly is integrated in trim perimeter
- Color Temperature: 2700K, 3000K, 3500K, 4000K
- CRI options: 80 and 90
 - 90 CRI can be used for California Title 24 compliance/registered to Title 20
 - 80 CRI can be used to comply with California Title 24 Non-Residential Lighting Controls requirements as a LED luminaire.
- L70 at 50,000 hours projected in accordance with TM-21

WARRANTY

Cooper Lighting provides a five year limited warranty on the SLD LED

LED CHROMATICITY

- A tight chromaticity specification ensures LED color uniformity, sustainable Color Rendering Index (CRI) and Correlated Color Temperature (CCT) over the useful life of the LED
- LED chromaticity of 3 SDCM exceeds ENERGY STAR® color standards per ANSI
- 90 CRI model features high color performance with R9 greater than 50
- Every Halo LED is quality tested, measured, and serialized in a permanent record to register lumens, wattage, CRI and CCT.

- Halo LED serialized testing and measurement ensures color and lumen consistency on a per-unit basis, and validates long-term product consistency over time

ELECTRICAL CONNECTIONS Junction Box

- Compatible with 3-1/2" x 2" and 4" x 1-1/2" deep round, square and octagon boxes (2-1/8" deep boxes recommended)
- Supply Wire Adapter with LED quick connector included

LED DRIVER

- Driver is a 120V input, high efficiency, dimmable electronic power supply providing DC power to the LED array
- Driver features high power factor, low THD, and has integral thermal protection in the event of over temperature or internal failure
- Driver is replaceable if it should be required

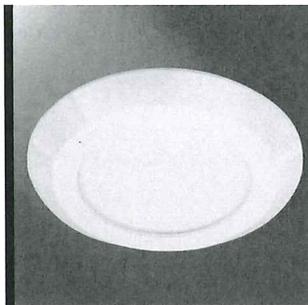
DIMMING

- Designed for continuous dimming capability to nominally 5% with many 120V Leading Edge (LE) and Trailing Edge (TE) phase control dimmers. Dimming to 5% is best assured using dimmers with low end trim adjustment. Consult dimmer manufacturer for compatibility and conditions of use. (Note some dimmers require a neutral in the wallbox.)

COMPLIANCE

- cULus Listed ceiling and wall
- cULus Damp Location listed ceiling and wall
- cULus Wet Location Listed, ceiling only (shower rated)

continued...



SLD 600 Series SLD6068xxWHJB

80CRI
2700K, 3000K, 3500K, and 4000K

SLD6069xxWHJB

90CRI
2700K, 3000K, 3500K, and 4000K

6" Surface LED Downlight

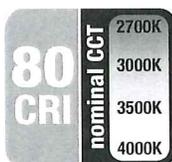
Suitable for ceiling or wall electrical junction boxes

ENERGY DATA

	80 CRI	90 CRI
Lumens (4000K models)	800	780
Input Voltage	120V	120V
Frequency	50/60 Hz	50/60 Hz
Input Current	0.10 A	0.11 A
Input Power	12.2 W	13.2 W
Efficiency (4000K models)	66 lm/W	59 lm/W
THD	≤ 20%	
Power Factor	≥ 0.90	
T Ambient	-30 - +40°C	
Sound Rating	Class A	

NOMENCLATURE

SLD606 8 30 WH JB
606 = 6" SLD 600 Series
8 = >80 CRI
30 = 3000K
WH = Matte White
JB = Junction Box kit only

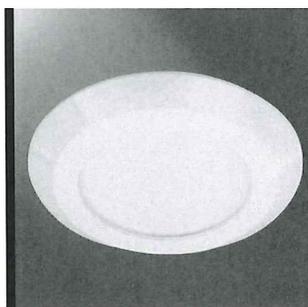


Refer to ENERGY STAR® Certified Products List. Can be used to comply with California Title 24 Non-Residential Lighting Controls requirements as a LED Luminaire.



Refer to ENERGY STAR® Certified Products List. Can be used to comply with California Title 24 High Efficacy requirements. Certified to California Title 20 Appliance Efficiency Database.

- Suitable for use in closets, compliant with NFPA® 70, NEC® Section 410.16 (A)(3) and 410.16 (C)(5)
- SLD may be used in compatible electrical junction boxes in direct contact with insulation including spray foam insulation
- EMI/RFI: meets FCC 47CFR Part 15 Class B limits, and is suitable for use in residential and commercial installations
- Airtight certified per ASTM E283 (not exceeding 2.0 CFM under 57 Pascals pressure difference)
- 90 CRI: Can be used to comply with California Title 24 High Efficacy requirements. Certified to California Title 20 Appliance Efficiency Database.
- 80 CRI: Can be used to comply with California Title 24 Non-Residential Lighting Controls requirements as a LED luminaire.
- Can be used for International Energy Conservation Code (IECC) and Washington State Energy Code high efficiency luminaire compliance
- ENERGY STAR® certified luminaire - consult ENERGY STAR® Certified Product List
- Contains no mercury or lead and RoHS compliant.
- Photometric testing in accordance with IES LM-79
- Lumen maintenance projections in accordance with IES LM-80 and TM-21



SLD 600 Series

SLD6068xxWH

80CRI
2700K, 3000K, 3500K,
and 4000K

SLD6069xxWH

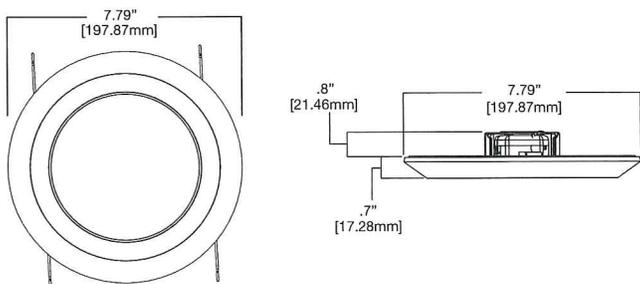
90CRI
2700K, 3000K, 3500K,
and 4000K

6" Surface LED Downlight

Suitable for ceiling or wall electrical junction boxes

Suitable for 5" & 6" recessed housing retrofit (IC, Non-IC & AIR-TITE™)

DIMENSIONS



ORDERING INFORMATION

SAMPLE NUMBER: SLD606830WHJB
Order junction box separately, as supplied by others, to complete installation.

Models	Color Rendering Index	Color Temperature (CCT)	Finish	JB
SLD606-6" Surface LED Downlight, 120V	8=80 CRI 9=90 CRI	27=2700K 30=3000K 35=3500K 40=4000K	WH=White	JB=Junction Box kit

Accessories

Designer Trims

Fit over the SLD for a designer finish
SLD6TRMSN=6" SLD Satin Nickel
SLD6TRMTBZ=6" SLD Tuscan Bronze
SLD6TRMWH=6" SLD White (paintable)

J-Box Spacer Extension Ring

Add 15/16" depth when SLD driver cannot fit into installed junction box
SLD6EXT=6" Surface LED J-Box Extender, 9.5" O.D.

RAD Adapters

When junction box is mounted flat on a ceiling or beam surface (not recessed in ceiling)
SLD6RAD=6" SLD Round Surface J-Box Adapter, 7.92" O.D. (for 4-inch round or octagon junction boxes.)
SLD6SADPLT=6" SLD Square Surface J-Box Adapter Plate (For 4-inch square junction boxes, use with SLD6RAD.)

Spare Parts

SLD6ACCKIT=6" Accessory Parts Replacement Kit (Screwbase adapter, torsion springs, friction blades)
SLD6BRKT=6" Junction Box Bracket & Screws

Refer to SLD Accessories specification sheet for further information.

COMPATIBLE WITH EATON'S CROUSE-HINDS STANDARD / FIRE-RATED JUNCTION BOXES



TP316
for non-metallic cable
4" x 4" x 2-1/8"
(102mm x 102mm x 54mm)



TP317
for metal clad cable
4" x 4" x 2-1/8"
(102mm x 102mm x 54mm)

- **TP316** - for non-metallic cable
- **TP317** - for metal clad cable
- UL Listed
- Two-hour fire-rated ANSI/UL 263
- Refer to www.crouse-hinds.com

COMPATIBLE WITH MANY OTHER STANDARD AND FIRE-RATED JUNCTION BOXES*



4" octagon light fixture/fan steel box
4" x 4" x 2-1/8"
(102mm x 102mm x 54mm)



4" octagon steel box
4" x 4" x 1-1/2"
(102mm x 102mm x 38mm)



4" square deep steel box
4" x 4" x 2-1/8"
(102mm x 102mm x 54mm)



4" square standard steel box
4" x 4" x 1-1/2"
(102mm x 102mm x 38mm)



4" round new work non-metallic light fixture/fan box
4" diameter x 2-3/16"
(102mm x 56mm)



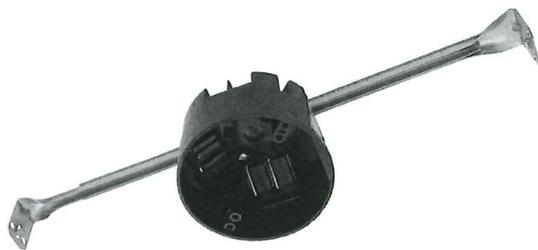
3-1/2" round new work non-metallic ceiling box
3-1/2" diameter x 2-3/4"
(89mm x 70mm)



3-1/2" round old work non-metallic box
4-1/4" O.D. flange, 3-1/2" I.D. x 2-5/8"
(108mm O.D., 89mm I.D. x 67mm)



4" round surface mount box
4" diameter x 1-1/2"
(102mm x 38mm)
Requires SLD6RAD adapter



4" round new work non-metallic box with hanger bar assembly
4" diameter x 2-3/16" (102mm x 56mm)

*This is a representative list of compatible junction boxes only. Information contained in this literature about other manufacturers' products is from published information made available by the manufacturer and is deemed to be reliable, but has not been verified. Eaton makes no specific recommendation on product selection and there are no warranties of performance or compatibility implied. Installer must determine that site conditions are suitable to allow proper installation of the SLD mounting bracket in the box.

PRODUCT DATA

Cat No.	CRI	CCT	Lumens	Power (W)	LPW
SLD606827WH	80	2700	727	12.2	60
SLD606830WH	80	3000	760	12.2	62
SLD606835WH	80	3500	780	12.2	64
SLD606840WH	80	4000	800	12.2	66
SLD606927WH	92	2700	710	13.2	54
SLD606930WH	92	3000	735	13.2	56
SLD606935WH	92	3500	760	13.2	58
SLD606940WH	92	4000	780	13.2	59

Performance values are presented as typical for the model(s) indicated. Field results may vary.

LIGHTING FACTS®

SLD606827WH - 80 CRI

LED lighting facts®
A Program of the U.S. DOE

Light Output (Lumens) **727**
Watts **12.2**
Lumens per Watt (Efficacy) **59.59**

Color Accuracy
Color Rendering Index (CRI) **81**

Light Color
Correlated Color Temperature (CCT) **2700 (Warm White)**

2700K 3000K Bright White 4500K Daylight 6500K

All results are according to IESNA LM-79-2008, Approved Method for the Electrical and Photometric Testing of Solid State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

Visit www.lightingfacts.com for the Label Reference Guide.

Registration Number: F4QJ-ANLJDN (4/17/2015)
Model Number: SLD606827WH
Type: Luminaire - Downlight

SLD606830WH - 80 CRI

LED lighting facts®
A Program of the U.S. DOE

Light Output (Lumens) **760**
Watts **12.2**
Lumens per Watt (Efficacy) **62.3**

Color Accuracy
Color Rendering Index (CRI) **81**

Light Color
Correlated Color Temperature (CCT) **3000 (Bright White)**

2700K 3000K Bright White 4500K Daylight 6500K

All results are according to IESNA LM-79-2008, Approved Method for the Electrical and Photometric Testing of Solid State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

Visit www.lightingfacts.com for the Label Reference Guide.

Registration Number: F4QJ-12D3MH (5/7/2015)
Model Number: SLD606830WH (signature 04/20/15)
Type: Luminaire - Downlight

SLD606835WH - 80 CRI

LED lighting facts®
A Program of the U.S. DOE

Light Output (Lumens) **780**
Watts **12.2**
Lumens per Watt (Efficacy) **63.93**

Color Accuracy
Color Rendering Index (CRI) **81**

Light Color
Correlated Color Temperature (CCT) **3500 (Bright White)**

2700K 3000K Bright White 4500K Daylight 6500K

All results are according to IESNA LM-79-2008, Approved Method for the Electrical and Photometric Testing of Solid State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

Visit www.lightingfacts.com for the Label Reference Guide.

Registration Number: F4QJ-0R693H (4/17/2015)
Model Number: SLD606835WH
Type: Luminaire - Downlight

SLD606840WH - 80 CRI

LED lighting facts®
A Program of the U.S. DOE

Light Output (Lumens) **800**
Watts **12.2**
Lumens per Watt (Efficacy) **65.57**

Color Accuracy
Color Rendering Index (CRI) **81**

Light Color
Correlated Color Temperature (CCT) **4000 (Bright White)**

2700K 3000K Bright White 4500K Daylight 6500K

All results are according to IESNA LM-79-2008, Approved Method for the Electrical and Photometric Testing of Solid State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

Visit www.lightingfacts.com for the Label Reference Guide.

Registration Number: F4QJ-2KXNY1 (4/17/2015)
Model Number: SLD606840WH
Type: Luminaire - Downlight

SLD606927WH - 90 CRI

LED lighting facts®
A Program of the U.S. DOE

Light Output (Lumens) **710**
Watts **13.2**
Lumens per Watt (Efficacy) **53.79**

Color Accuracy
Color Rendering Index (CRI) **92**

Light Color
Correlated Color Temperature (CCT) **2700 (Warm White)**

2700K 3000K Bright White 4500K Daylight 6500K

All results are according to IESNA LM-79-2008, Approved Method for the Electrical and Photometric Testing of Solid State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

Visit www.lightingfacts.com for the Label Reference Guide.

Registration Number: F4QJ-BU5EC1 (4/17/2015)
Model Number: SLD606927WH
Type: Luminaire - Downlight

SLD606930WH - 90 CRI

LED lighting facts®
A Program of the U.S. DOE

Light Output (Lumens) **735**
Watts **13.2**
Lumens per Watt (Efficacy) **55.68**

Color Accuracy
Color Rendering Index (CRI) **92**

Light Color
Correlated Color Temperature (CCT) **3000 (Bright White)**

2700K 3000K Bright White 4500K Daylight 6500K

All results are according to IESNA LM-79-2008, Approved Method for the Electrical and Photometric Testing of Solid State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

Visit www.lightingfacts.com for the Label Reference Guide.

Registration Number: F4QJ-DH15F1 (4/7/2015)
Model Number: SLD606930WH (signature 04/20/15)
Type: Luminaire - Downlight

SLD606935WH - 90 CRI

LED lighting facts®
A Program of the U.S. DOE

Light Output (Lumens) **760**
Watts **13.2**
Lumens per Watt (Efficacy) **57.58**

Color Accuracy
Color Rendering Index (CRI) **92**

Light Color
Correlated Color Temperature (CCT) **3500 (Bright White)**

2700K 3000K Bright White 4500K Daylight 6500K

All results are according to IESNA LM-79-2008, Approved Method for the Electrical and Photometric Testing of Solid State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

Visit www.lightingfacts.com for the Label Reference Guide.

Registration Number: F4QJ-GCF4Z3 (4/17/2015)
Model Number: SLD606935WH
Type: Luminaire - Downlight

SLD606940WH - 90 CRI

LED lighting facts®
A Program of the U.S. DOE

Light Output (Lumens) **780**
Watts **13.2**
Lumens per Watt (Efficacy) **59.09**

Color Accuracy
Color Rendering Index (CRI) **92**

Light Color
Correlated Color Temperature (CCT) **4000 (Bright White)**

2700K 3000K Bright White 4500K Daylight 6500K

All results are according to IESNA LM-79-2008, Approved Method for the Electrical and Photometric Testing of Solid State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

Visit www.lightingfacts.com for the Label Reference Guide.

Registration Number: F4QJ-U8E278 (4/17/2015)
Model Number: SLD606940WH
Type: Luminaire - Downlight

FEATURES & SPECIFICATIONS

INTENDED USE — Ideal for a wide variety of low- to medium-height ceiling applications including commercial, retail and hospitality spaces where a wet location lensed fixture is required. Ideal for shower and outdoor applications.

CONSTRUCTION — Heavy gauge die formed galvanized steel mounting frame with mechanical trim retention (yoke) ensures secure and flush reflector mounting to ceiling. Attached to frame are vertically adjustable mounting brackets for use with C channels, ½" steel conduit or 16 gauge flat bar hangers included, standard. Frames equipped with galvanized junction box UL Listed for through wire applications. Junction boxes equipped with (2) ¾" and (4) ½" conduit knockouts with pryout slots and removable access doors.

Maximum 1-1/2" ceiling thickness.

OPTICS — Aluminum clear semi-specular upper reflectors are optically designed to maximize lumen output and to provide superior glare control.

Glass lenses are available in clear flat, tempered prismatic or fresnel glass lens to provide optimal visual comfort and improved aesthetics.

ELECTRICAL — Electronic ballast with end of lamp life protection standard. Class P thermally protected ballast protects against improper contact with insulation. Minimum starting temperature is 0°F/-18°C.

Rated for #12 AWG conductor thru-branch wiring. Minimum 90° supply wire.

Ground wire provided.

Lamp Socket Base:

TRT 4-pin lamps — 26W (GX24Q-3); 32W (GX24Q-3); 42W (GX24Q-4)

LISTINGS — Fixtures are UL Listed for thru-branch wiring, Non-IC recessed mounting, wet location, and to U.S. and Canadian Safety Standards.

WARRANTY — 1-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Specifications subject to change without notice.

Catalog Number
Notes
Type D1

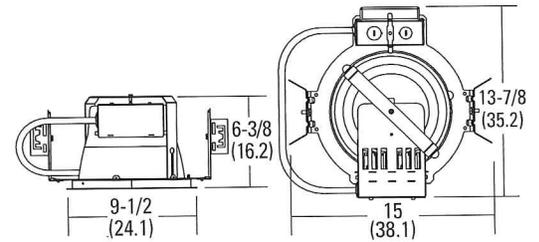
Compact Fluorescent Downlighting

8" LF8N



WET LENS

Horizontal 2-Lamp, Triple Tube (TRT)



Specifications

Max. height: 6-3/8 (16.2)

Ceiling opening: 8-3/4 (22.2)

Overlap trim: 9-1/2 (24.1)

Length: 15 (38.1)

Width: 13-7/8 (35.2)

All dimensions are inches (centimeters) unless otherwise indicated.

ORDERING INFORMATION

For shortest lead times, configure product using **bolded options**.

Example: LF8N 2/26-42TRT F8LT4 MVOLT

LF8N	2/26-24TRT	F8LT4	MVOLT	
Series	Wattage/Lamp	Reflector/Color ²	Voltage	Options ⁵
LF8N	2/26-42TRT¹	F8LT1 White splay, clear lens	MVOLT³	ADEZ Advance Mark 10™ electronic dimming ballast, 120V or 277V. Must be wattage and voltage specific. Minimum dimming level 5%
	2/26TRT	F8LTB1 Black baffle, clear lens	120	ECOS Lutron EcoSystem electronic dimming ballast, 120V - 277V. Must be wattage specific. Minimum dimming level 5%
	2/32TRT	F8LT4 White splay, fresnel lens	277	EL Emergency PSDL3 DL battery pack with integral test switch. Lens removal required before EL testing ⁶
	2/42TRT	F8LTB4 Black baffle, fresnel lens	347 ⁴	ELR Emergency PSDL3 DL battery pack with remote test switch ⁶
		F8LT73 White splay, tempered prismatic lens		ELRHL2LP Iota I-162 Emergency battery pack with remote test switch. Operates two 26W, two 32W or two 42W CFL lamps in emergency mode with battery back-up in case of power disruption. Average output is 2600 lumens for two 26W lamps; average output is 2750 lumens for two 32W lamps; average output is 2800 lumens for 42W lamps ⁷
		F8LTF73 Black baffle, tempered prismatic lens		GMF Single slow-blow fuse, must specify voltage
				BDP Ballast disconnect plug (meets codes that require in-fixture disconnect) ⁴
				RIF1 Radio interference filter
				LBH Less barhangers
				WLP 35K lamp (shipped separately)

Accessories: Order as separate catalog number.

- SCA8 Sloped ceiling adaptor. Degree of slope must be specified (10D, 15D, 20D, 25D, 30D) Ex: SCA8 10D.
- CTE8 Ceiling thickness extender is used when ceiling thickness is greater than 1-1/2 (3.8). Maximum thickness 2 (5.1).

Notes

- Not available with ECOS or WLP.
- White painted flange standard.
- Electronic multi-volt ballast capable of operating any line voltage from 120-277V, 50 or 60Hz.
- Not available with EL or ELR.
- For additional options see www.lithonia.com.
- Ships standard for 1-lamp operation. For 2-lamp emergency operation, consult installation instructions or factory. Add 3" (7.6) to width and 4-1/2" (11.4) to length.
- Not recommended for field installation.

8" LF8N Horizontal, 2-Lamp Triple Tube (TRT), Wet Lens

PHOTOMETRICS

Distribution Curve Distribution Data Output Data Coefficient of Utilization Illuminance Data at 30" Above Floor for a Single Luminaire

LF8N 2/32TRT F8LTB4 MVOLT, (2) 32W TRT lamps, 1.15 s/mh, 4800 rated lumens, test no. LTL12046

Distribution Curve	Distribution Data				Output Data				Coefficient of Utilization			Illuminance Data at 30" Above Floor for a Single Luminaire					
	cp	Lumens	Zone	Lumens % Lamp	pf	20%			Task Height: 2.5ft.	Initial FC		50% beam -		10% beam -			
						pc	80%	70%		50%	Mounting Height	Center Beam	56.1' Diameter	FC	92.4' Diameter	FC	
	0	1026			0	41	41	40	40	38	38						
	5	1063	104	0° - 30°	790.5	16.5	1	37	36	36	36	35	34				
	15	1091	303	0° - 40°	1155.6	24.1	2	34	32	33	32	32	31				
	25	837	384	0° - 60°	1554.0	32.4	3	31	29	30	28	29	28				
	35	586	365	0° - 90°	1649.4	34.4	4	28	26	28	25	27	25				
	45	339	263	90° - 180°	0.0	0.0	5	26	23	25	23	25	23				
	55	148	136				6	24	21	23	21	23	21				
	65	63	64	0° - 180°	1649.4	*34.4	7	22	19	22	19	21	19				
	75	28	29				8	20	18	20	18	20	17				
	85	0	2				9	19	16	19	16	18	16				
90	0					10	18	15	17	15	17	15					

LF8N 2/42TRT F8LTB4 MVOLT, (2) 42W TRT lamps, 1.16 s/mh, 6400 rated lumens, test no. LTL12050

Distribution Curve	Distribution Data				Output Data				Coefficient of Utilization			Illuminance Data at 30" Above Floor for a Single Luminaire					
	cp	Lumens	Zone	Lumens % Lamp	pf	20%			Task Height: 2.5ft.	Initial FC		50% beam -		10% beam -			
						pc	80%	70%		50%	Mounting Height	Center Beam	58.3' Diameter	FC	92.8' Diameter	FC	
	0	1423			0	44	44	43	43	41	41						
	5	1477	144	0° - 30°	1139.6	17.8	1	40	39	39	38	38	37				
	15	1551	431	0° - 40°	1675.1	26.2	2	36	35	36	34	35	33				
	25	1232	564	0° - 60°	2239.1	35.0	3	33	31	33	30	32	30				
	35	860	536	0° - 90°	2372.5	37.1	4	30	28	30	27	29	27				
	45	484	375	90° - 180°	0.0	0.0	5	28	25	27	25	27	24				
	55	205	189				6	26	23	25	23	25	22				
	65	88	89	0° - 180°	2372.5	*37.1	7	24	21	23	21	23	20				
	75	40	41				8	22	19	22	19	21	19				
	85	0	3				9	20	18	20	18	20	17				
90	0					10	19	16	19	16	18	16					

LF8N 2/32TRT F8LTB73 MVOLT, (2) 32W TRT lamps, 1.26 s/mh, 4800 rated lumens, test no. LTL12047

Distribution Curve	Distribution Data				Output Data				Coefficient of Utilization			Illuminance Data at 30" Above Floor for a Single Luminaire					
	cp	Lumens	Zone	Lumens % Lamp	pf	20%			Task Height: 2.5ft.	Initial FC		50% beam -		10% beam -			
						pc	80%	70%		50%	Mounting Height	Center Beam	61.6' Diameter	FC	92.3' Diameter	FC	
	0	958			0	40	40	39	39	37	37						
	5	963	92	0° - 30°	764.6	15.9	1	36	35	36	35	34	34				
	15	958	270	0° - 40°	1151.0	24.0	2	33	31	32	31	31	30				
	25	884	402	0° - 60°	1525.6	31.8	3	30	28	30	28	29	27				
	35	625	386	0° - 90°	1608.8	33.5	4	27	25	27	25	26	24				
	45	313	246	90° - 180°	0.0	0.0	5	25	23	25	22	24	22				
	55	141	129				6	23	21	23	20	22	20				
	65	59	60	0° - 180°	1608.8	*33.5	7	21	19	21	19	21	18				
	75	21	22				8	20	17	19	17	19	17				
	85	0	1				9	18	16	18	16	18	16				
90	0					10	17	15	17	15	17	15					

LF8N 2/42TRT F8LTB73 MVOLT, (2) 42W TRT lamps, 1.22 s/mh, 6400 rated lumens, test no. LTL12051

Distribution Curve	Distribution Data				Output Data				Coefficient of Utilization			Illuminance Data at 30" Above Floor for a Single Luminaire					
	cp	Lumens	Zone	Lumens % Lamp	pf	20%			Task Height: 2.5ft.	Initial FC		50% beam -		10% beam -			
						pc	80%	70%		50%	Mounting Height	Center Beam	61.0' Diameter	FC	91.8' Diameter	FC	
	0	1396			0	43	43	42	42	40	40						
	5	1400	134	0° - 30°	1101.7	17.2	1	39	38	38	37	37	36				
	15	1386	391	0° - 40°	1650.3	25.8	2	35	34	35	33	33	32				
	25	1269	577	0° - 60°	2177.2	34.0	3	32	30	32	30	31	29				
	35	887	549	0° - 90°	2294.5	35.9	4	29	27	29	27	28	26				
	45	441	346	90° - 180°	0.0	0.0	5	27	24	26	24	26	24				
	55	197	181				6	25	22	24	22	24	22				
	65	83	85	0° - 180°	2294.5	*35.9	7	23	20	23	20	22	20				
	75	30	31				8	21	19	21	18	20	18				
	85	0	1				9	20	17	19	17	19	17				
90	0					10	18	16	18	16	18	16					

Notes

Energy (Calculated in accordance with NEMA Standard LE-5)

Actual performance may differ as a result of end-user environment and application.

Energy Data: (Calculated in accordance with NEMA Standards LE-5)						
Fixture/ Reflector	LER	Annual energy cost*	Lamps	Lamp lumens	Ballast factor	Input watts
LF8N TRT/F8LTB73	23.54	\$10.20	(2) 26W TRT	3600	1.0	52
LF8N TRT/F8LTB73	23.29	\$10.30	(2) 32W TRT	4800	.98	68
LF8N TRT/F8LTB73	24.77	\$9.69	(2) 42W TRT	6400	.97	93
LF8N TRT/F8LTB4	24.23	\$9.90	(2) 26W TRT	3600	1.0	52
LF8N TRT/F8LTB4	24.00	\$10.00	(2) 32W TRT	4800	.98	68
LF8N TRT/F8LTB4	25.46	\$9.43	(2) 42W TRT	6400	.97	93

*Comparative yearly lighting energy cost per 1000 lumens



LF8N-WETLENS-2-TRT



FEATURES & SPECIFICATIONS

INTENDED USE — For landscape and facade lighting.

CONSTRUCTION — Rugged, die-cast, single piece low copper alloy aluminum housing. Die-cast doorframe has impact-resistant, tempered, glass lens. Doorframe is fully sealed with a closed-cell silicone gasket. Standard finish is textured dark bronze (DDBT) polyester powder finish, with other architectural colors available. Patent No. D552,778.

OPTICS — Anodized aluminum reflectors; segmented, specular or hammertone finish for superior uniformity and control. Reflectors are interchangeable and allow for tool-less access to electrical components.

ELECTRICAL — 50W-150W utilizes a high reactance, high power factor ballast. 175W utilizes a constant-wattage autotransformer ballast. Quick disconnect plug easily disconnects reflector from ballast and fixture from supply wires. Ballasts are precision wound and 100% factory tested. UL Listed. CSA, NOM or INTL required for probe start shipments outside of the US for 175M. Not available with 175M SCWA. Ceramic metal halide lamps are recommended for use in applications where superior color rendition, lumen maintenance and longer lamp life are desired.

Socket: Porcelain, medium-base socket with copper alloy, nickel-plated screw shell and center contact.

INSTALLATION — Standard mounting is cast ¾" threaded knuckle. Mounting mechanism features infinite locking points for aiming precision. Optional yoke mounting available, heavy-duty compact cast aluminum yoke adaptor to maintain fixture aesthetics. Provided with painted steel yoke and three feet of 16/3 SE00W cable.

LISTING — UL listed suitable for wet locations in all orientations. UL Listed to U.S. and Canadian safety standards (see Options). NOM Certified (see Options). IP66 rated. Canadian patent pending.

WARRANTY — 1-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Actual performance may differ as a result of end-user environment and application.

Note: Specifications subject to change without notice.

Catalog Number
Notes
Type D1



AERIS™
Architectural Floodlighting

ASF1

METAL HALIDE: 50W-175W
HIGH PRESSURE SODIUM: 50W-150W

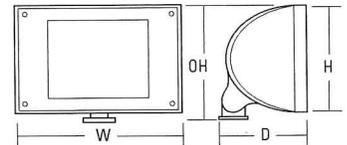
Specifications

EPA: 1.20 ft²
Width: 15-1/2 (39.4)
Depth: 7-5/8 (19.4)
Height: 10 (25.4)
Overall Height: 10-7/8 (27.6)

*Max. Weight: 20 lbs (9.1 kg)

All dimensions are inches (centimeters) unless otherwise indicated.

*Weight as configured in example below.



ORDERING INFORMATION

For shortest lead times, configure products using **standard options (shown in bold)**.

Example: ASF1 100M HSP TB LPI

ASF1	50M	SP	MVOL	SCWA	YK		DDBXD	
Series	Wattage	Distribution	Voltage	Ballast	Mounting	Options	Finish ⁹	Lamp ¹⁰
ASF1	<u>Metal halide</u>	SP Spot	120	(blank) Mag-netic ballast	<u>Shipped installed</u>		DDBT Dark bronze, textured	LPI Lamp included
	50M	HSP Horizontal spot	208 ²		(blank) Threaded knuckle	SF Single fuse (120, 277, 347V n/a TB)		
	70M	NSP Narrow spot	240 ²	YK Yoke mount		DF Double fuse (208, 240, 480V n/a TB)		
	100M		NSP Narrow spot		277	<u>Shipped separately</u> ^{6,7}		
	150M	NSP Narrow spot		347	PE Photoelectric cell-button type (n/a 480V or TB) ⁸			
	175M ¹		WDF Wide flood	480 ²	AFSTMTHK Stanchion mount			
	<u>Cermamic metal halide</u>	WDF Wide flood		TB³	AFWMATHK Wall mount arm			
	50MHC		MDF medium flood	23050HZ ¹	AFTS Tenon slipfitter			
	70MHC	MDF medium flood		SCWA Super CWA pulse start ballast ⁵	AFMTBTHK Twin mounting bar			
	100MHC		VFN Vertical narrow		AFWMPTHK Wall mount plate			
	150MHC	VFN Vertical narrow			AFJB Architectural J-box			
	<u>High pressure sodium</u>		VFW Vertical wide		Note: For shipments to U.S. territories, SCWA must be specified to comply with EISA.			
	50S	VFW Vertical wide			<u>Shipped separately</u> ⁶			
70S	VFW Vertical wide		ASF1GS Glare shield (upper or bottom visor) ⁷					
100S		VFW Vertical wide	ASF1EV Eggcrate visor (black only)					
150S	VFW Vertical wide		ASF1FV Full visor ⁷					
		VFW Vertical wide	ASF1BD Barn door ⁷					
	VFW Vertical wide		ASF1BVG Vandal guard					
		VFW Vertical wide	ASF1FV/BVG Full visor/vandal guard ⁷					
	VFW Vertical wide		<u>Super Durable Finishes</u>					
		VFW Vertical wide	DDBXD Dark bronze					
	VFW Vertical wide		DBLXD Black					
		VFW Vertical wide	DNAXD Natural aluminum					
	VFW Vertical wide		DWHXD White					
		VFW Vertical wide	DDBTXD Textured dark bronze					
	VFW Vertical wide		DBLBXD Textured black					
		VFW Vertical wide	DNATXD Textured natural aluminum					
	VFW Vertical wide		DWHGXD Textured white					

Notes

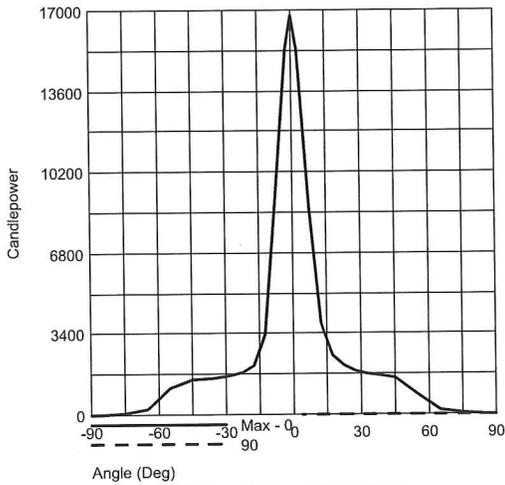
- These wattages do not comply with California Title 20 regulations.
- Must specify CWI in Canada.
- Optional multi-tap ballast (120, 208, 240, 277); (120, 277, 347V in Canada ships as 120/347).
- Consult factory for availability.
- Available with 150M or 150MHC only.
- May be ordered as an accessory.
- Must specify finish when ordered as an accessory.

- Must be ordered with fixture; cannot be field installed.
- See www.lithonia.com/archcolors for additional color options.
- Must be specified. L/LP not available with MHC.

ASF1 Metal Halide, High Pressure Sodium Architectural Flood

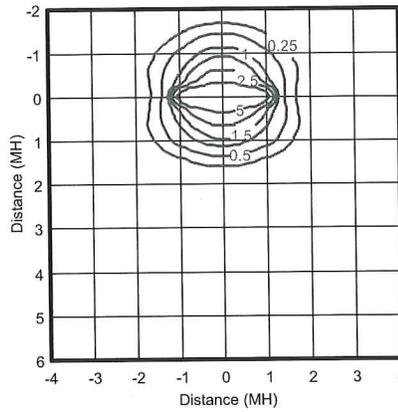
ASF1 150M HSP

TEST NO. LTL 14889P
Cartesian Plot



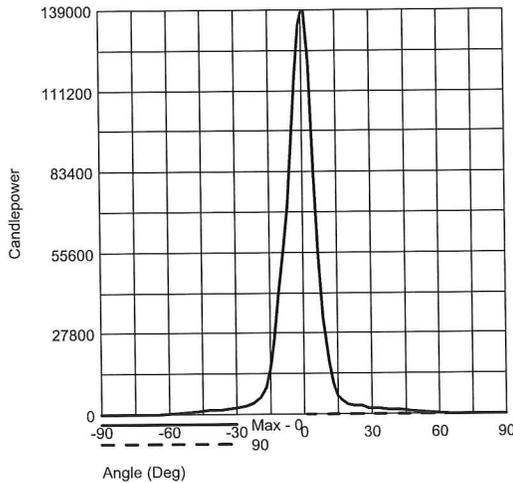
ISOILLUMINANCE PLOT (FC)

Mounting Height = 20 ft.
Classification: Unclassified (Type I, Very Short), Cutoff



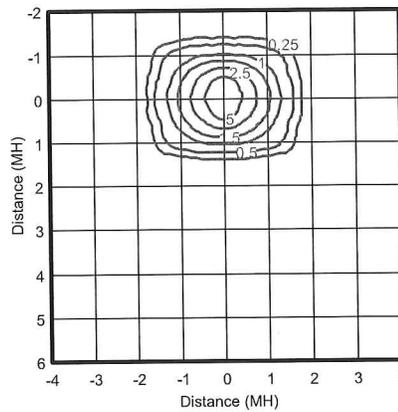
ASF1 150M NSP

TEST NO. LTL 148256P
Cartesian Plot



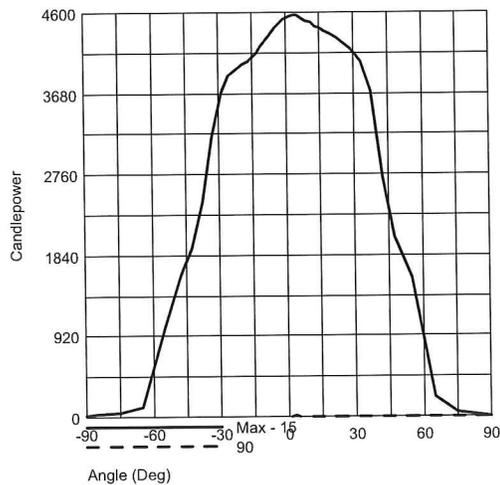
ISOILLUMINANCE PLOT (FC)

Mounting Height = 20 ft.
Classification: Unclassified (Type I, Very Short), Cutoff



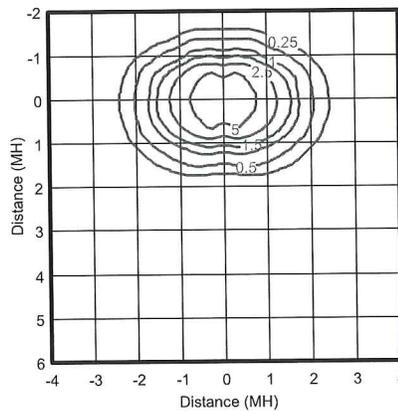
ASF1 150M WDF

TEST NO. LTL 14888P
Cartesian Plot



ISOILLUMINANCE PLOT (FC)

Mounting Height = 20 ft.
Classification: Unclassified (Type II, Very Short), Cutoff



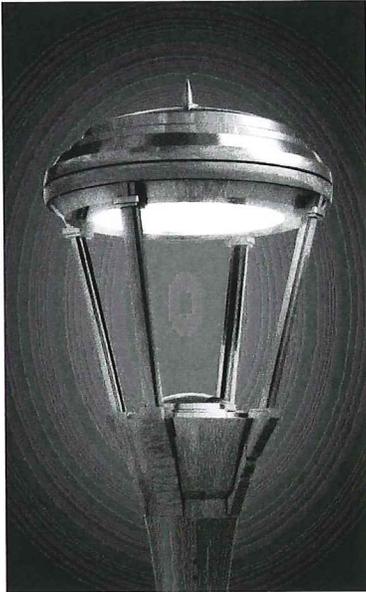
ANTIQUE STREET LAMPS™

RESONANCE™ 1.5 LED TLRC15

CATALOG #
OH-Gahanna

PROJECT
SA2, SA3, SA4, SA5

TYPE



Construction:

The luminaire is die cast and permanent mold aluminum. The roof has an internal hinge, hidden from view. Roof and driver lids are sealed with silicone gaskets. All exposed hardware is weather resistant.

FINISH: The luminaire has a powder coat finish utilizing a premium TGIC polyester powder. The finish is a three-stage process that consists of drying, powder application and curing. Before coating, the parts are treated with a five-stage pretreatment process, consisting of a heated alkaline cleaner, rinse, phosphate coating, rinse, and sealant.

Optics:

The horizontal lens is tempered flat glass with a continuous seal. The luminaire utilizes a precision acrylic refractive optics for optimum light distribution through the flat glass lens. Available in Type II, III, IV, and V.

Electrical:

High-efficiency nominal 4000K, 65 CRI LEDs mounted to a metal-core circuit board and aluminum heat sink, ensuring optimal thermal management and long life. Designed to provide more than 60,000 hours of performance (L85) at 25C (77F) ambient temperatures. Maximum ambient 35C (95F). Standard and dimming drivers are available in 120-277V and 347-480V; 50/60 Hz. Drivers have power factor >90% and THD <20%. Expected driver life is over 60,000 hours, matching the light engine life. Integral surge protection tested in accordance with IEEE/ANSI C62.41.2 to Category C Low.

Installation:

The luminaire mounts on a 3" O.D. x 3" tall tenon with six, 1/4-20 socket set screws. The hinged roof/reflector housing is furnished with captive screws for access to the light engine. The light engine is furnished with a quick-disconnect plug. The driver assembly is furnished with a quick-disconnect plug and mounts on a bracket. The bracket is accessible by removing the driver lid fastened by a fastener.

Listings:

The luminaire is tested to and meets all NRTL's outdoor requirement standards, wet location use, through the fully accredited and approved CSA laboratory.

Max EPA: 1.8 sq feet
Max Height: 33" (83.8 cm)
Max Width: 19" (48.2 cm)
Max Weight: 46 lbs (20.8 kg)

Sample Catalog number:

TLRC15	49LED 350MA	30K	R2	120	GCF	SF	DWH
Series	Lumen Package	LED Color	Distribution	Voltage	Lens	Options	Finish



ENERGY INDEPENDENCE AND SECURITY ACT 2007 (EISA)



Ordering Guide:

Series	Lumen Package	LED Color	Distribution	Voltage	Lens	Options
TLRC15	49LED 350MA 49LED 530MA 49LED 700MA 63LED 350MA 63LED 530MA 63LED 700MA	30K 40K 50K	R2 TYPE 2 R3 TYPE 3 R4 TYPE 4 R5 TYPE 5	120 208 240 277 347 ¹ 480 ¹ MVOLT	GCF	SF SINGLE FUSE SF DOUBLE FUSE SPD6KV ² SURGE PROTECTION SPD10KV ² SURGE PROTECTION

Finish

DBL	BLACK
DDB	DARK BRONZE
DNA	NATURAL ALUMINUM
DWH	WHITE
CM	CUSTOM MATCH
CS	CUSTOM SELECT
	RAL COLORS

Notes:

- 347 and 480V not available with dimming
- Specific voltage required with surge protection

TLRC15 LED

» SERIES

SELECT YOUR OPTIONS FROM

- TLRC15 Tersen Luminaires-Resonance 1.5 LED

LUMEN PACKAGE

SELECT YOUR OPTIONS FROM

- 49LED 350MA
- 49LED 530MA
- 49LED 700MA
- 63LED 350MA
- 63LED 530MA
- 63LED 700MA

LED COLOR

SELECT YOUR OPTIONS FROM

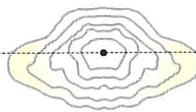
- 30K
- 40K
- 50K

DISTRIBUTION

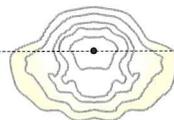
SELECT YOUR OPTIONS FROM

- R2 Type II
- R3 Type III
- R4 Type IV
- R5 Type V

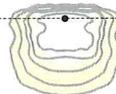
House Side
Street Side



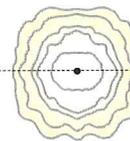
Type II
Distributes light slightly ahead of luminaire location with significant lateral spread.



Type III
Provides light farther ahead of the luminaire than a Type II pattern but maintains a significant lateral spread.



Type IV
Sharp Cutoff
Distributes light almost exclusively forward with an emphasis on eliminating light trespass and spill light behind the pole.



Type V
Provides improved uniformity with a variance of the Type V distribution with a slightly square pattern compared to the regular Type V.

VOLTAGE

SELECT YOUR OPTIONS FROM

- 120 120 Volt
- 208 208 Volt
- 240 240 Volt
- 277 277 Volt
- 347¹ 347 Volt
- 480¹ 480 Volt
- MVOLT

Notes:
1. 347 and 480V not available with dimming

LENS

SELECT YOUR OPTIONS FROM

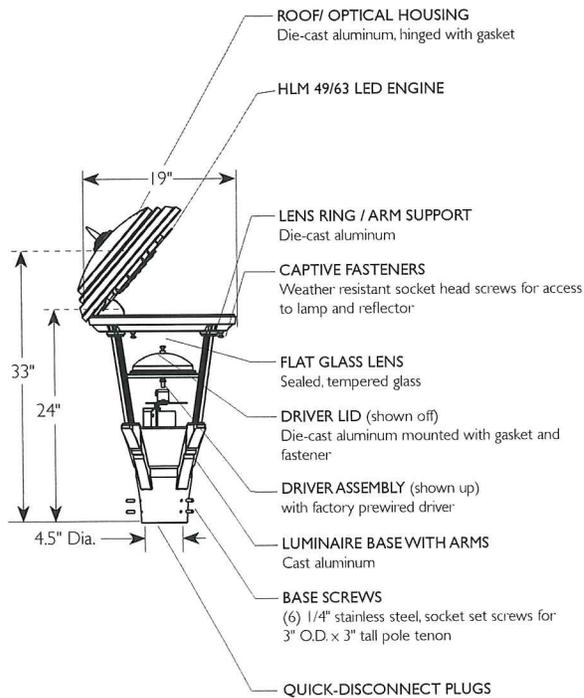
- GCF Glass Flat Lens

OPTIONS

SELECT YOUR OPTIONS FROM

- SF Single Fusing
- DF Double Fusing
- SPD6KV² Surge Protection
- SPD10KV² Surge Protection

Notes:
2. Specific voltage required with surge protection



TLRC15 LED

The luminaire has a powder coat finish utilizing a premium TGIC polyester powder. The finish is a three-stage process which consists of drying, powder application and curing. Before coating, the parts are treated with a five-stage pretreatment process, consisting of a heated alkaline cleaner, rinse, phosphate coating, rinse and sealant.

For a complete listing of colors, visit:
www.acuitybrandslighting.com/architecturalcolors

SELECT YOUR OPTIONS FROM

- | | | | |
|--------------------------|-----|----------------------------|---|
| <input type="checkbox"/> | DBL | Black |  |
| <input type="checkbox"/> | DDB | Dark Bronze |  |
| <input type="checkbox"/> | DNA | Natural Aluminum |  |
| <input type="checkbox"/> | DWH | White |  |
| <input type="checkbox"/> | CM | Custom Match | |
| <input type="checkbox"/> | CS | Custom Select (RAL colors) | |

Notes:

- CS: This choice requires that a custom powder be manufactured to match a specific color chip provided by the specifier
- CM: ASL offers custom selected RAL powder coat colors. See chart (form 794.3) for cataloged optional colors or contact the factory.

ANTIQUE STREET LAMPS™

RESONANCE™ 1.0 LED TLRC10

CATALOG #

OH-Gahanna

PROJECT

SA2B

TYPE



Construction:

The luminaire is die cast and permanent mold aluminum. The roof has an internal hinge, hidden from view. Roof and ballast lids are sealed with silicone gaskets. All exposed hardware is weather resistant. FINISH: The luminaire has a powder coat finish utilizing a premium TGIC polyester powder. The finish is a three-stage process that consists of drying, powder application and curing. Before coating, the parts are treated with a five-stage pretreatment process, consisting of a heated alkaline cleaner, rinse, phosphate coating, rinse, and sealant.

Optics:

Individual precision-molded acrylic lenses provide optimal luminaire spacing and improved uniformity. Lenses are indexed to the circuit board to ensure consistent optical alignment on each, delivering repeatable photometric performance. Choice of three optimized distributions: Type III, Type IV, and Type V. The optical system controls light above 90 degrees, eliminating wasteful up light.

Electrical:

Standard drivers are available in 120-277V; 50/60 Hz. Drivers have power factor >90% and THD <20%. Thermal isolation results in expected driver life of over 60,000 hours. Integral surge protection in accordance with IEEE/ANSI C62.41.2 Category C Low is standard.

Installation:

The luminaire mounts on a 3" O.D. x 3" tall tenon with six, 1/4"-20 socket set screws. The hinged roof/reflector housing is furnished with captive screws for access to the lamp and reflector. The reflector can be removed and is furnished with a quick-disconnect plug. The ballast assembly is furnished with a quick-disconnect plug and mounts on a lift-out bracket. The lift-out bracket is accessible by removing the ballast lid fastened by a captive fastener.

Listings:

The luminaire is tested to and meets all NRTL's outdoor requirement standards, wet location use, through the fully accredited and approved CSA laboratory. DesignLights™ Consortium qualified product.

Max EPA: .47 sq feet
Max Height: 24" (60.9 cm)
Max Width: 13" (33 cm)
Max Weight: 20 lbs (9 kg)

Sample Catalog number:

TLRC10	18LED 350MA	41K	R3	120	GCF	SPD6KV	DWH
Series	Lumen Package	LED Color	Distribution	Voltage	Lens	Options	Finish



ENERGY INDEPENDENCE AND SECURITY ACT 2007 (EISA)



Ordering Guide:

Series	Lumen Package	LED Color	Distribution	Voltage	Lens	Options
TLRC10	18LED 350MA 18LED 700MA	35K 41K 56K	R3 TYPE 3 R4 TYPE 4 R5 TYPE 5	120 208 ³ 240 277 347 480 ² MVOLT ⁴	GCF	SF SINGLE FUSE SF DOUBLE FUSE SPD6KV SURGE PROTECTION SPD10KV SURGE PROTECTION

Finish

DBL	BLACK
DDB	DARK BRONZE
DNA	NATURAL ALUMINUM
DWH	WHITE
CM	CUSTOM MATCH
CS	CUSTOM SELECT RAL COLORS

Notes:

- 120V and 277V only
- Not available with CFL
- Consult factory for 208 volt available in Canada
- Multi-tap ballast (120, 208, 240, 277V), only available CFL.

TLRC10 LED

SERIES

SELECT YOUR OPTIONS FROM

- TLRC10 Tersen Luminares-Resonance 1.0 LED

LUMEN PACKAGE

SELECT YOUR OPTIONS FROM

- 18LED 350MA
- 18LED 700MA

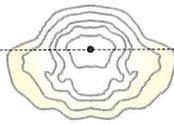
LED COLOR

SELECT YOUR OPTIONS FROM

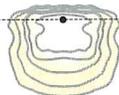
- 35K 350K
- 41K 4100KI
- 56K T5600K

DISTRIBUTION

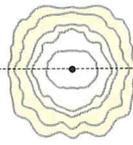
House Side
Street Side



Type III
Provides light farther ahead of the luminaire than a Type II pattern but maintains a significant lateral spread.



Type IV
Sharp Cutoff Distributes light almost exclusively forward with emphasis on eliminating light trespass and spill light behind pole.



Type V
Improved uniformity with variation of the Type V distribution; a slightly square pattern compared to regular Type V.

SELECT YOUR OPTIONS FROM

- R3 Type III
- R4² Type IV
- R5 Type V

VOLTAGE

SELECT YOUR OPTIONS FROM

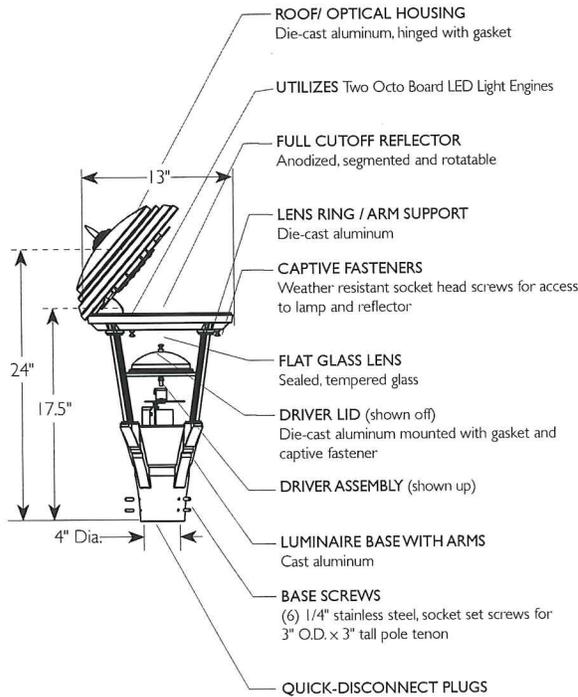
- 120 120 Volt
- 208³ 208 Volt
- 240 240 Volt
- 277 277 Volt
- MVOLT⁴

TLRC10 LED

SELECT YOUR OPTIONS FROM

- GCF Glass Flat Lens

OPTIONS



SELECT YOUR OPTIONS FROM

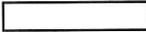
- SF Single Fusing 120, 277 Volt
- DF Double Fusing 208, 240 Volt
- SPD6KV Surge Protection
- SPD10KV Surge Protection 120, 277 Volt

FINISH

The luminaire has a powder coat finish utilizing a premium TGIC polyester powder. The finish is a three-stage process which consists of drying, powder application and curing. Before coating, the parts are treated with a five-stage pretreatment process, consisting of a heated alkaline cleaner; rinse, phosphate coating, rinse and sealant.

For a complete listing of colors, visit:
www.acuitybrandslighting.com/architecturalcolors

SELECT YOUR OPTIONS FROM

- DBL Black 
- DDB Dark Bronze 
- DNA Natural Aluminum 
- DWH White 
- CM Custom Match
- CS Custom Select (RAL colors)

Notes:

CS: This choice requires that a custom powder be manufactured to match a specific color chip provided by the specifier

CM: ASL offers custom selected RAL powder coat colors. See chart (form 794.3) for cataloged optional colors or contact the factory.

ANTIQUE STREET LAMPS™

RESONANCE BOLLARD 1.0 LED TLRCB10

CATALOG #

OH-Gahanna

PROJECT

SB

TYPE



Construction:

The luminaire is die cast and permanent mold aluminum. The roof has an internal hinge, hidden from view. Roof and ballast lids are sealed with silicone gaskets. All exposed hardware is weather resistant. FINISH: The luminaire has a powder coat finish utilizing a premium TGIC polyester powder. The finish is a three-stage process that consists of drying, powder application and curing. Before coating, the parts are treated with a five-stage pretreatment process, consisting of a heated alkaline cleaner, rinse, phosphate coating, rinse and sealant.

Optics:

Individual precision-molded acrylic lenses provide optimal luminaire spacing and improved uniformity. Lenses are indexed to the circuit board to ensure consistent optical alignment on each, delivering repeatable photometric performance. Choice of three optimized distributions: Type III, Type IV, and Type V. The optical system controls light above 90 degrees, eliminating wasteful up light.

Electrical:

Standard and dimming drivers are available in 120-277V; 50/60 Hz. Drivers have power factor >90% and THD <20%. Thermal isolation results in expected driver life of over 60,000 hours. Integral surge protection in accordance with IEEE/ANSI C62.41.2 Category C Low is standard.

Installation:

The Resonance Bollard offers a patented impact resistant mounting and leveling design ensuring lifelong performance. Three leveling pads within the base mounting plate are easily accessible through the access panel. The leveling pads provide full contact with the concrete pad, providing a high degree of stability. The base mounting plate is fully welded to the bollard post, providing complete structural support from all directions, giving the bollard superior vandal resistance.

Listings:

The luminaire is tested to and meets all NRTL's outdoor requirement standards, wet location use, through the fully accredited and approved CSA laboratory. DesignLights™ Consortium qualified product.

Max EPA: 1.8 sq feet
 Max Height: 3' 8" (111.8 cm)
 Max Width: 1' 1" (33 cm)
 Max Weight: 30 lbs (13.6 kg)

Sample Catalog number:

TLRCB10	18LED 350MA	41K	GCF	R3	MVOLT	SF
Series	Lumen Package	LED Color	Lens	Distribution	Voltage	Electrical Options
DWH	Finish					



ENERGY INDEPENDENCE AND SECURITY ACT 2007 (EISA)



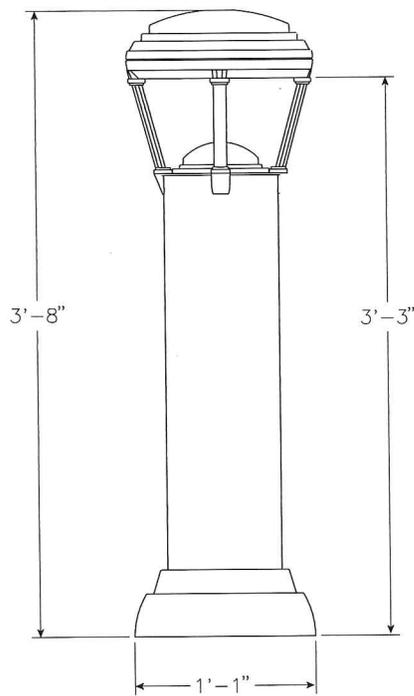
Ordering Guide:

Series	Lumen Package	LED Color	Lens	Distribution	Voltage	Electrical Options
TLRCB10	18LED 350MA 18LED 700MA	35K 41K 56K	GCF	R3 TYPE 3 R4 TYPE 4 R5 TYPE 5	MVOLT	SF DF SPD6KV SINGLE FUSE DOUBLE FUSE SURGE PROTECTION

Finish

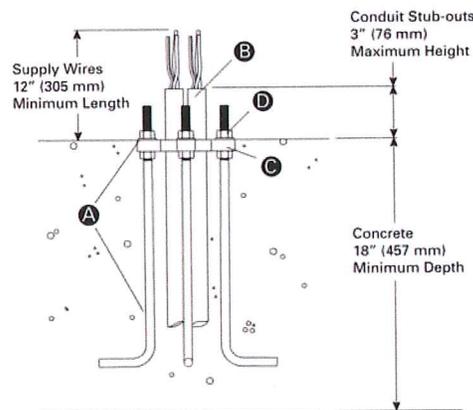
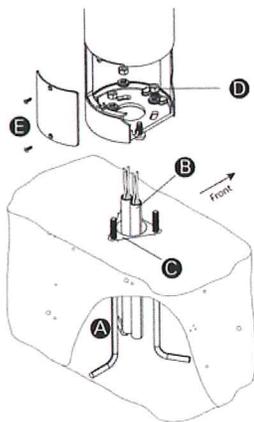
DBL	BLACK
DDB	DARK BRONZE
DNA	NATURAL ALUMINUM
DWH	WHITE
CM	CUSTOM MATCH
CS	CUSTOM SELECT
	RAL COLORS

TLRCB10 LED



SELECT YOUR OPTIONS FROM

- TLRCB10 Luminaires-Resonance Bollard 1.0



- A** J-Bolt Assembly (galvanized J-bolt 1/2-13 thread, 14 inches long)
- B** Electrical Conduit Stub-Out
- C** Anchor Template Bracket
- D** Anchor Bolt Top Fasteners
- E** Access Door

LUMEN PACKAGE

SELECT YOUR OPTIONS FROM

- 18LED 350MA
- 18LED 700MA

LED COLOR

SELECT YOUR OPTIONS FROM

- 35K 3500K
- 41K 4100K
- 56K 5600K

TLRCB10 LED

LENS

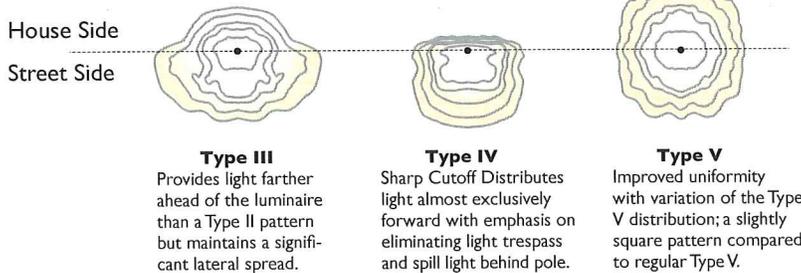
SELECT YOUR OPTIONS FROM

- GCF Glass Flat Lens

DISTRIBUTION

SELECT YOUR OPTIONS FROM

- R3 Type III
- R4 Type IV
- R5 Type V



VOLTAGE

SELECT YOUR OPTIONS FROM

- MVOLT 120-277 Volt

ELECTRICAL OPTIONS

SELECT YOUR OPTIONS FROM

- SF Single Fusing 120, 277 or 347 volt only
- DF Double Fusing 208, 240 or 480 volt only
- SPD6KV Surge Protection

FINISH

The luminaire has a powder coat finish utilizing a premium TGIC polyester powder. The finish is a three-stage process which consists of drying, powder application and curing. Before coating, the parts are treated with a five-stage pretreatment process, consisting of a heated alkaline cleaner, rinse, phosphate coating, rinse and sealant.

For a complete listing of colors, visit:
www.acuitybrandslighting.com/architecturalcolors

Notes:

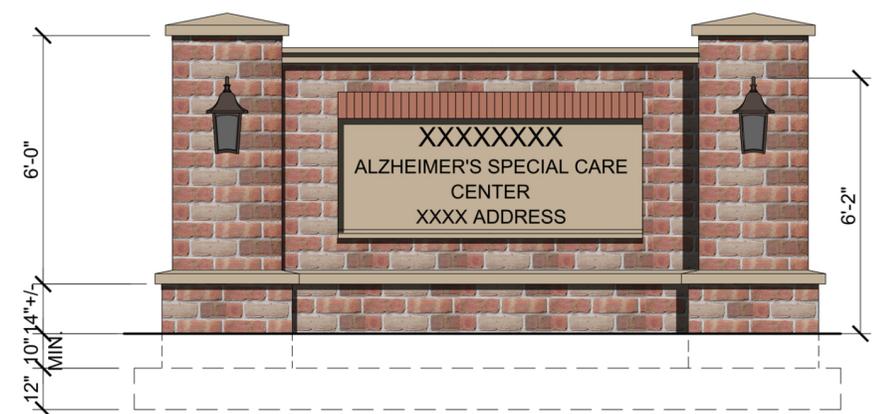
CM: This choice requires that a custom powder be manufactured to match a specific color chip provided by the specifier

CS: ASL offers custom selected RAL powder coat colors. See chart (form 794.3) for cataloged optional colors or contact the factory.

SELECT YOUR OPTIONS FROM

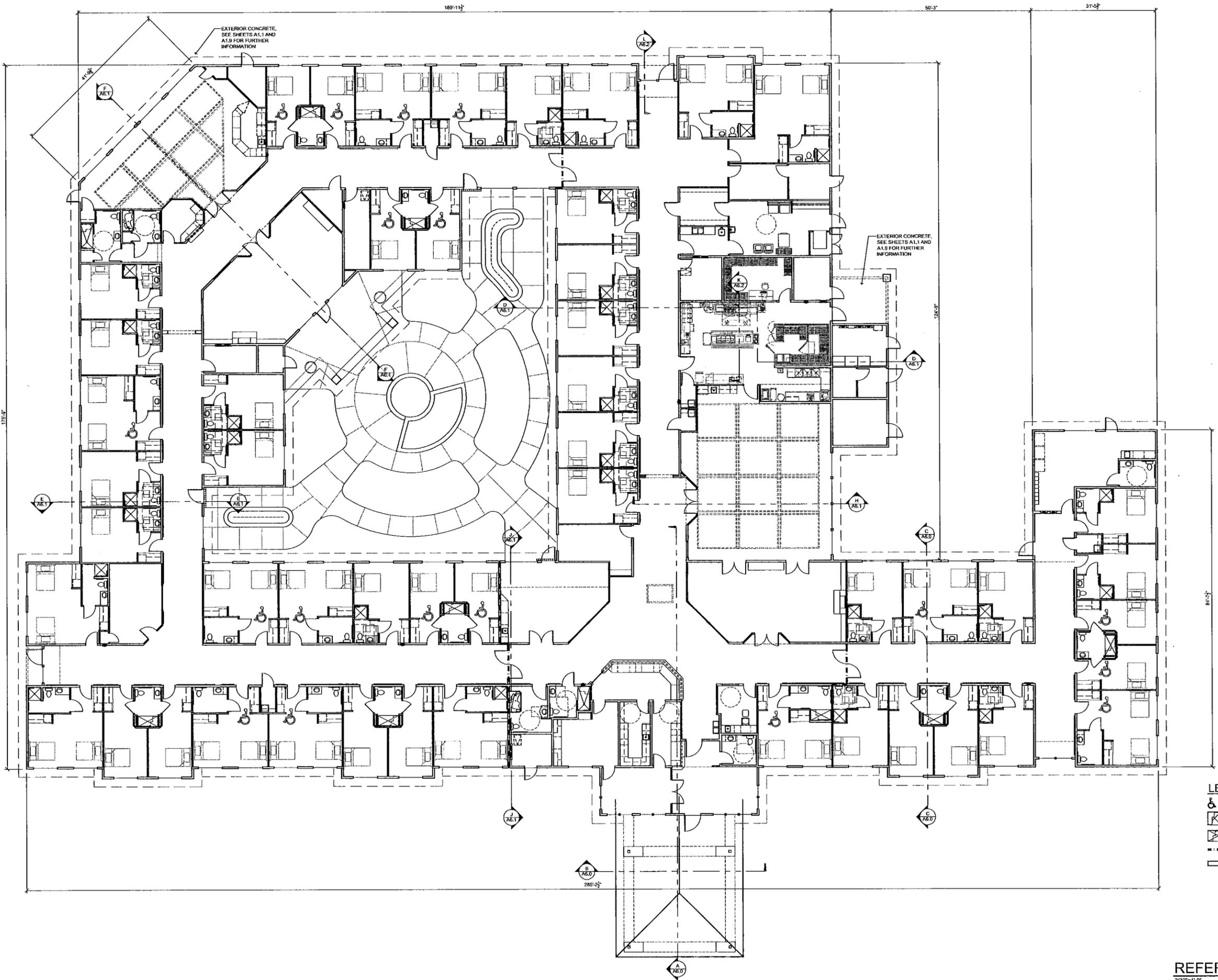
- DBL Black 
- DDB Dark Bronze 
- DNA Natural Aluminum 
- DWH White 
- CM Custom Match
- CS Custom Select (RAL colors)

TLRCB10 LED



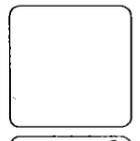
Conceptual Perspective Gahanna Alzheimer Special Care Center

ALL DIMENSIONS UNLESS OTHERWISE NOTED. REFER TO SHEETS A1.1 AND A1.9 FOR FURTHER INFORMATION.



- LEGEND**
- ACCESSIBLE SUITE
 - TRANSFER SHOWER
 - ROLL-IN SHOWER
 - SMOKE BARRIER
SEE SHEET A6.7 FOR DETAILS
 - 2x STUD WALL AT 16" O.C.

REFERENCE PLAN
3/32"=1'-0"



Daniel Roach architect
3150 Kelle Court SE, Salem, Oregon 97301
P 503 399 1090 F 503 399 0565 www.danielroach.com



GAHANNA
ALZHEIMER'S SPECIAL
CARE CENTER
GAHANNA, OHIO 43230

**REFERENCE
PLAN**

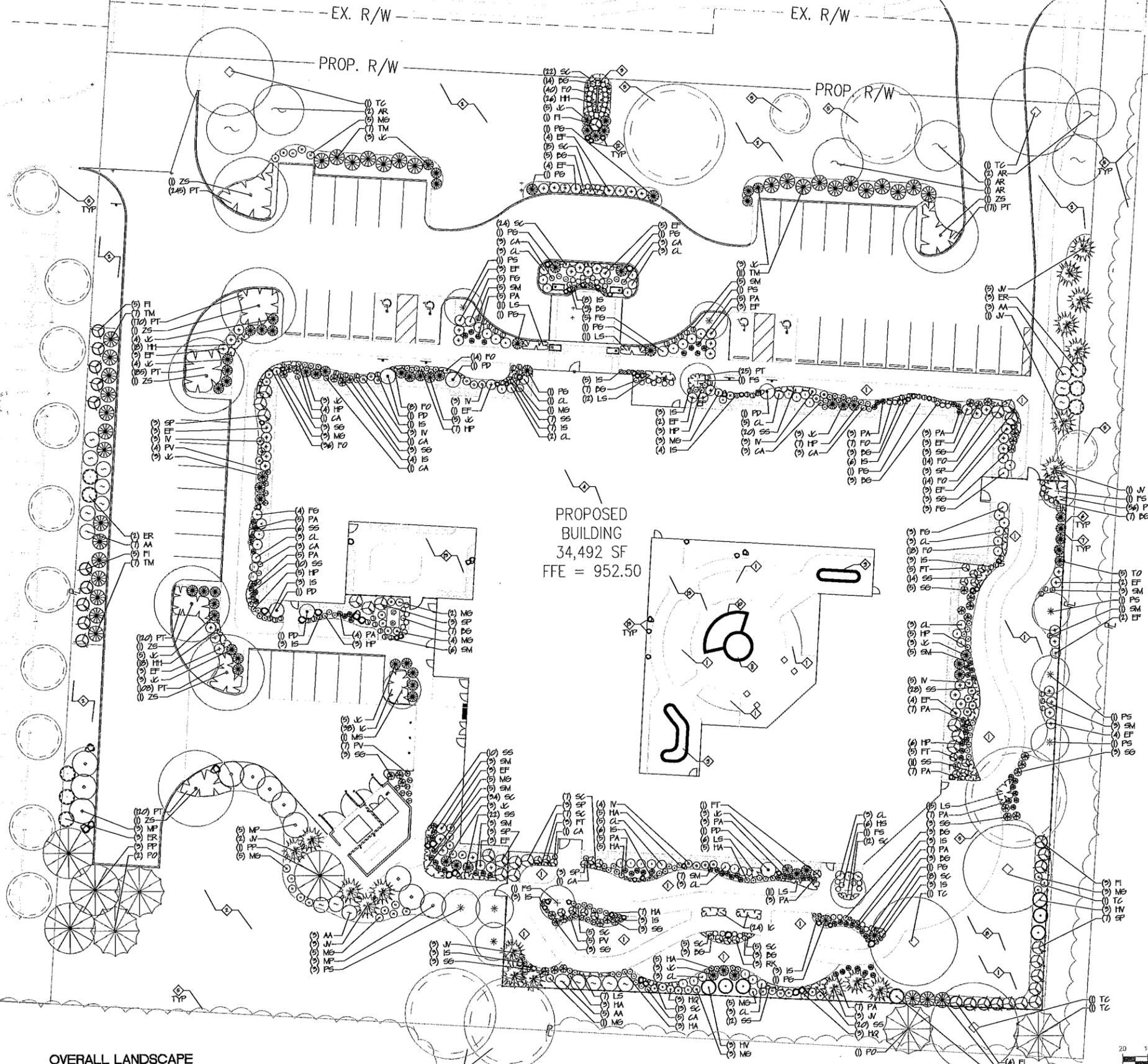
DATE
XX/XX/2015

REVISED DATE

SHEET
A2.1

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MORSE ROAD - VARIABLE R/W



GENERAL NOTES

- CONTRACTOR IS TO VERIFY LOCATIONS OF ALL UTILITIES WITH THE OWNER AND UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR DETERMINING IN THE FIELD ACTUAL LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES, WHETHER INDICATED ON PLANS OR NOT. CONTRACTOR MUST CALL THE UTILITIES PROTECTION SERVICE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR DAMAGE OF UTILITY LINES.
- CONTRACTOR TO EXAMINE FINISH SURFACE, GRADE ACCURACY AND TOPSOIL FOR DEPTH AND QUALITY. IF CONDITIONS ARE UNSATISFACTORY, NOTIFY LANDSCAPE DESIGNER AND OWNER AND DO NOT BEGIN WORK UNTIL CONDITIONS HAVE BEEN CORRECTED.
- PRIOR TO INSTALLATION, REPAIR ALL DAMAGES MADE TO EXISTING CONDITIONS TO A SATISFACTORY MANNER.
- EXISTING VEGETATION TO REMAIN SHALL BE PRESERVED IN ACCORDANCE TO ACCEPTABLE NURSERY INDUSTRY PROCEDURES.
- PLANT MATERIALS SHALL CONFORM TO THE STANDARDS OF THE AMERICAN ASSOCIATION OF NURSERMEN AND SHALL HAVE PASSED INSPECTION REQUIRED UNDER STATE REGULATIONS.
- ALL PLANTINGS TO BE IN ACCORDANCE WITH THE CITY OF GAHANNA ZONING ORDINANCE (219.07).
- IF PROPOSED PLANT LOCATIONS CONFLICT WITH UTILITIES, LIGHTS, DIG DOY STABLE OR CROWD EXISTING PLANT MATERIAL, NOTIFY THE LANDSCAPE ARCHITECT TO CONSULT ON THE ADJUSTMENTS OF ANY PLANT LOCATIONS.
- ALL PLANTINGS TO BE CONTAINED WITHIN DARK MULCHED BED. 3" ORGANIC DARK MULCH TO BE SHREDED HARDWOOD, DYED BLACK, PREEMERGENT TO BE INSTALLED PRIOR TO MULCH.
- SEED ALL DISTURBED LAWN AREAS THAT ARE NOT LANDSCAPED.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE IN LAWN AREAS. CONTRACTOR IS RESPONSIBLE FOR PLANT'S LIVABILITY WITH A (1) YEAR MATERIAL AND LABOR WARRANTY FOR ALL.
- PERPETUAL MAINTENANCE OF LANDSCAPE SHALL BE PROVIDED AND ANY DEAD OR DISEASED MATERIAL SHALL BE REMOVED AND REPLACED WITH APPROVED SPECIES WITHIN THREE MONTHS, WEATHER PERMITTING.
- ANY CONTRACTOR RECOMMENDED SUBSTITUTIONS MUST BE APPROVED BY THE LANDSCAPE DESIGNER. UNAPPROVED SUBSTITUTIONS SHALL BE REMOVED AND REPLACED WITH APPROPRIATE PLANTS.
- AUTOMATED PERMANENT IRRIGATION SYSTEM TO BE INSTALLED USING 'SMART' TECHNOLOGY PROVIDING 100% COVERAGE TO ALL PLANTING AREAS. AREAS OF EXTENSIVE LAWN (E. RETENTION AREAS) WILL NOT BE IRRIGATED.
- IF ANY DISCREPANCIES BETWEEN PLAN AND PLANT SCHEDULE, ACCEPT THE PLAN TO BE CORRECT.

DRAWING NOTES

- ◇ LAWN AREA TO BE SOEDED.
- ◇ LAWN AREA TO BE SEEDED.
- ◇ PROPOSED SIGNAGE. SEE ARCHITECTURAL PLAN FOR MORE INFORMATION.
- ◇ MEMORY CARE FACILITY. SEE ARCHITECTURAL PLAN FOR MORE INFORMATION.
- ◇ EXISTING TREE TO REMAIN (219.09).
- ◇ PROPOSED FENCING. SEE ARCHITECTURAL PLAN FOR MORE INFORMATION.
- ◇ GRAVEL SEPARATING EXTERIOR LAWN AND FENCE. 12" W X 5' L.
- ◇ ADA (800 s.f.) SEE ARCHITECTURAL PLAN FOR MORE INFORMATION.
- ◇ 9" RAISED PLANTER FOR RESIDENT GARDENING THERAPY.
- ◇ 24" SENSORY GARDEN. SEE SHEET L-2 FOR MORE INFORMATION.
- ◇ WATER FEATURE. SEE ARCHITECTURAL PLAN FOR MORE INFORMATION.
- ◇ LANDSCAPE MULCHER TO BE CHOSEN BY CONTRACTOR AND APPROVED BY DESIGNER. SIZES BETWEEN 2'-4" W.
- ◇ COURTYARD PLANTING. SEE SHEET L-2 FOR MORE INFORMATION.

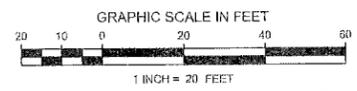
ZONING CALCULATIONS

OVERALL CALCULATIONS
 SITE: 140,200 SF
 OPEN SPACE: 64,811 SF (46.2%)
 VUA: 25,180 SF (18.0%)

NORTH BUFFER
 254 LF OF FRONTAGE - 45 LF OF DRIVE = 209 LF
 20' MAX SPACING FOR SMALL TREE
 209/20 = 10 TREES REQUIRED
 (0) EXISTING TREES TO REMAIN
 (0) TREES REQUIRED
 (0) TREES PROPOSED

EAST AND SOUTH BUFFER
 EXISTING TREES AND PINE ROW TO REMAIN

WEST BUFFER
 ADJACENT SUBURBAN OFFICE ZONE - NO REQUIREMENT



UNDERGROUND UTILITIES
 TWO WORKING DAYS
 BEFORE YOU DIG
 CALL 1-800-362-2764 (TOLL FREE)
 OHIO UTILITIES PROTECTION SERVICE
 NON-MEMBERS
 MUST BE CALLED DIRECTLY

REVISIONS:

NO.	DATE	DESCRIPTION

KKD
 Kate Kady Design, LLC
 206 Thorewood Rd.
 Columbus, OH 43140
 614.233.1603

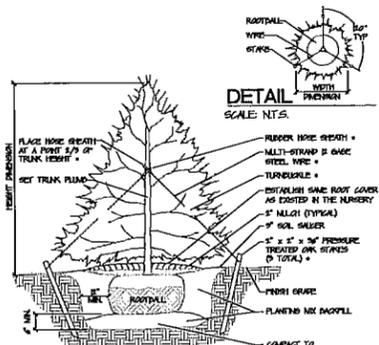
LANDSCAPE PLAN
 GAHANNA ALZHEIMER
 SPECIAL CARE CENTER
 5195-5221 MORSE ROAD
 GAHANNA, OHIO 43230

JEA SENIOR LIVING
 Management • Development

OWNER: JEA SENIOR LIVING

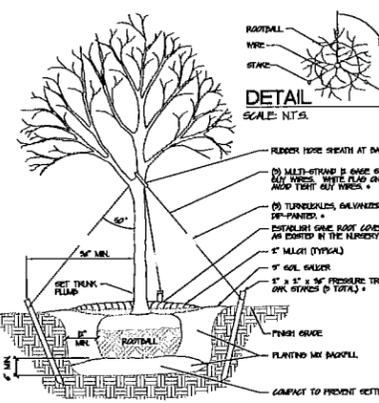
DATE: OCTOBER 20, 2015	PROJECT NO.: 2015-JEA-1
DRAWN BY: KMK	CHECKED BY: KMK
SCALE: 1" = 20'	SHEET: L-1

SHEET: L-1



- NOTES**
- EVERGREEN TREES WITH 1" CALIBER OR SMALLER SHALL BE STAKED. EVERGREEN TREES HAVING A TRUNK OF 7" OR GREATER SHALL BE STAKED. REMOVE STAKES 1 YEAR AFTER PLANTING.
 - REMOVE WATER CONTROLS PER MANUFACTURER'S RECOMMENDATION FOR EVERGREEN TREES.
 - CUT AND REMOVE DURLAP FROM TOP 1/3 OF ROOTBALL. IF CONTAINER MATERIAL IS USED, REMOVE CONTAINER.

DETAIL
DESCRIPTION: EVERGREEN TREE PLANTING AND GUYING
SCALE: N.T.S.



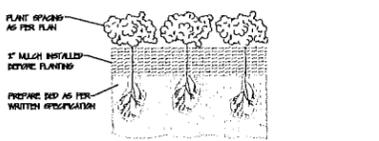
- NOTES**
- ALL PLANT MATERIAL TO BE PRUNED AND GUYED. CONTRACTOR TO REMOVE ALL INAPPROPRIATE BRANCHES AND LEAVES. LANDSCAPE ARCHITECT IS THE SOLE JUDGE OF THE EXTENT OF PRUNING AND GUYING.
 - PLANT ALL TREES 60 ROOT BALL IS LEVEL WITH FINISH GRADE.
 - ONLY STAKE REGULAR TREES WITH A 1" OR GREATER CALIBER.
 - REMOVE STAKES 1 YEAR AFTER PLANTING.
 - CUT AND REMOVE DURLAP FROM TOP 1/3 OF ROOTBALL. IF CONTAINER MATERIAL IS USED, REMOVE CONTAINER.

SECTION
DESCRIPTION: DECIDUOUS TREE PLANTING AND GUYING
SCALE: N.T.S.

- NOTES**
- CUT AND REMOVE DURLAP FROM TOP 1/3 OF ROOTBALL. IF CONTAINER IS USED, REMOVE CONTAINER.
 - FIELD BUILT FROM SAME RELATION TO FINISH GRADE AS IS TO BE TO FINISH GRADE.
 - TRIM POLYMER AND BRANCHED BY 1/2" WHILE STILL RETAINING NORMAL PLANT SHAPE. DO NOT GET A LEWER.

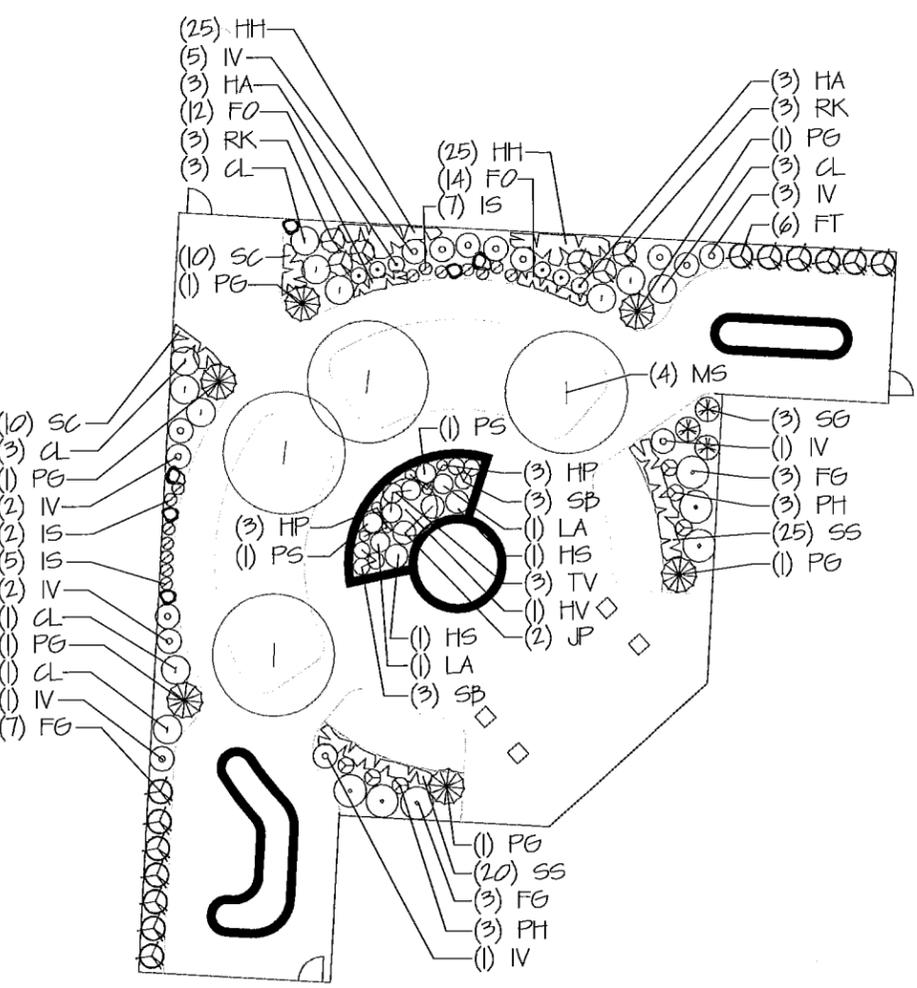


DETAIL
DESCRIPTION: SHRUB PLANTING
SCALE: N.T.S.



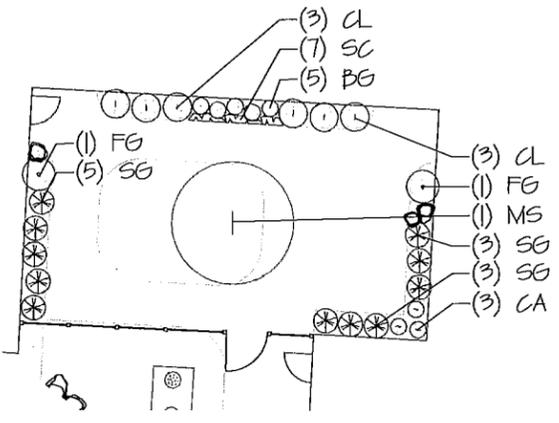
DETAIL
DESCRIPTION: GROUND COVER PLANTING
SCALE: N.T.S.

COURTYARD PLANTING SCHEDULE				
QUANTITY	KEY	BOTANICAL NAME	COMMON NAME	SIZE / REMARKS
5	BG	BUXUS x Green Gem	Green Gem Boxwood	No. 3 Container, 12" H
3	CA	CALAMAGROSTIS sp. 'Karl Foerster'	Karl Foerster Reed Grass	Clump, No. 2 Container
17	CL	CLETHRA alnifolia 'Sixteen Candles'	Dwarf Summerweet	No. 3 Container, 12" H
28	FD	FESTUCA ovina 'Elijah Blue'	Elijah Blue Fescue	Clump, 8" Squat Container, 10" oc
13	FT	FORSYTHIA x 'Gold Tide'	Gold Tide Forsythia	4" H, B&B
8	FG	FOTHERGILLA gardenii	Dwarf Fothergilla	No. 3 Container, 15" H
1	HV	HAMAMELIS virginiana	Witch Hazel	No. 5 Container
2	HS	HELICTRICHON sempervirens	Blue Oat Grass	No. 1 Container
50	HI	HEMEROCALLIS x 'Happy Returns'	Happy Returns Daylily	Clump, No. 2 Container
5	HA	HEUCHERA x 'Amber Waves'	Amber Waves Coral Bells	Clump, No. 2 Container
6	HP	HEUCHERA x 'Plum Pudding'	Plum Pudding Coral Bells	Clump, No. 2 Container
14	IS	IBERIS sempervirens	Candytuft	No. 1 Container
15	IV	ITEA virginica 'Little Henry'	Little Henry Sweetgum	No. 3 Container, 12" H
2	JP	JUNIPERUS procumbens 'Greenmound'	Greenmound Juniper	No. 3 Container, 12" H
2	LA	LAVANULA angustifolia 'Munstead'	Dwarf English Lavender	No. 1 Container
5	MS	MALLUS x 'Spring Snow'	Spring Snow Crab	1 1/2", B&B
6	PH	PENNISETUM alopecuroides 'Hornet'	Dwarf Fountain Grass	No. 2 Container
2	PS	PHLOX subulata	Creeching Phlox	No. 1 Container
6	PG	PICEA p. glauca 'Globea'	Globe Blue Spruce	No. 5 Container, 15" H
8	RK	ROSA Pink Knock Out	Pink Knock Out Rose	No. 3 Container, 15" H
45	SS	SEDUM spurium 'Red Carpet'	Red Carpet Sedum	Clump, No. 1 Container, 12" oc
14	SG	SPIRAEA japonica 'Gold Flame'	Gold Flame Spiraea	No. 2 Container, 12" H
6	SB	STACHYS byzantina	Lamb's Ear	No. 1 Container
3	TV	THYMUS vulgaris	Thyme	No. 1 Container
NOTE				
~27 SQ. FT.	SC	SEASONAL COLOR TO BE CHOSEN BY LANDSCAPE CONTRACTOR AND APPROVED BY OWNER (Spring, Summer, Fall Rotation)		



COURTYARD LANDSCAPE
SCALE: 1" = 10'

OVERALL PLANTING SCHEDULE				
QUANTITY	KEY	BOTANICAL NAME	COMMON NAME	SIZE / REMARKS
TREES				
8	AR	ACER rubrum 'Somerset'	Somerset Red Maple	1 3/4", B&B
4	FS	FAGUS s. 'Rossa-Marghota'	Tri-Color Beech	1 1/2", B&B
18	JV	JUNIPERUS virginiana 'Burke'	Burk Eastern Redcedar	6" H, B&B
1	MS	MALLUS x 'Spring Snow'	Spring Snow Crab	1 1/2", B&B
4	PO	PICEA omorika	Sarban Spruce	6" H, B&B
4	PP	PICEA pungens glauca	Colorado Blue Spruce	6" H, B&B
8	PS	PRUNUS serrulata 'Kwanzan'	Kwanzan Cherry	6" H, No. 5 Container
8	TC	TILIA cordata 'Greenspire'	Greenspire Linden	1 3/4", B&B
7	ZS	ZELKOVA serrata 'Green Vase'	Green Vase Zelkova	2 1/2", B&B
SHRUBS				
18	AA	ARONIA arbutifolia 'Brilliant'	Red Chokeberry	No. 5 Container, 24" H
87	BG	BUXUS x Green Gem	Green Gem Boxwood	No. 3 Container, 12" H
40	CL	CLETHRA alnifolia 'Sixteen Candles'	Dwarf Summerweet	No. 3 Container, 12" H
55	EF	EUONYMUS fortunei 'Emerald Gaiety'	Emerald Gaiety Euonymus	No. 2 Container, 12" H
18	FI	FORSYTHIA x 'Intermedia 'Golden Balls'	Golden Balls Forsythia	4" H, B&B
14	FT	FORSYTHIA x 'Gold Tide'	Gold Tide Forsythia	4" H, B&B
20	FG	FOTHERGILLA gardenii	Dwarf Fothergilla	No. 3 Container, 15" H
7	HV	HAMAMELIS virginiana 'Sandra'	Sandra Witch Hazel	4" H, B&B
8	HQ	HYDRANGEA quercifolia	Oakleaf Hydrangea	4" H, B&B
71	IS	IBERIS sempervirens	Candytuft	No. 1 Container
21	IV	ITEA virginica 'Little Henry'	Little Henry Sweetgum	No. 3 Container, 12" H
58	JC	JUNIPERUS chinensis 'Seybrook Gold'	Seybrook Gold Juniper	No. 3 Container, 12" H
11	MP	MYRTICA pennsylvanica	Northern Bayberry	No. 5 Container, 36" H
8	PD	PHILADELPHUS x virginica 'Dwarf Snow'	Dwarf Mock Orange	No. 3 Container, 18" H
15	PG	PICEA p. glauca 'Globea'	Globe Blue Spruce	No. 5 Container, 15" H
3	RK	ROSA Pink Knock Out	Pink Knock Out Rose	No. 3 Container, 15" H
35	SG	SPIRAEA japonica 'Gold Flame'	Gold Flame Spiraea	No. 2 Container, 12" H
48	SM	SPIRAEA japonica 'Magic Carpet'	Magic Carpet Spiraea	No. 3 Container, 12" H
25	SP	SYRINGA patula 'Miss Kim'	Miss Kim Lilac	No. 5 Container, 30" H
35	TM	TAXUS x media 'Danielformis'	Danse Yew	18" H, B&B
5	TO	TRAJAN occidentalis 'Emerald'	Emerald Arborvitae	8" H, B&B
GRASSES				
25	CA	CALAMAGROSTIS sp. 'Karl Foerster'	Karl Foerster Reed Grass	Clump, No. 2 Container
8	ER	ERIANTHUS ravennae	Plum Grass	No. 1 Container
8	HS	HELICTRICHON sempervirens	Blue Oat Grass	No. 1 Container
62	IC	IMPERATA cylindrica 'Red Baron'	Japanese Blood Grass	Clump, No. 1 Container, 18" oc
73	LS	LIRIOPE spicata	Creeching Lilyturf	Clump, No. 5 Container
45	MG	MISCANTHUS eleusine 'Grootlimb'	Molten Grass	No. 2 Container
18	PV	PANICUM virgatum	Switch Grass	No. 2 Container
76	PA	PENNISETUM alopecuroides 'Hornet'	Dwarf Fountain Grass	Clump, 8" Squat Container, 10" oc
GROUND COVER				
151	FO	FESTUCA ovina 'Elijah Blue'	Elijah Blue Fescue	2 1/4" Post Pots, 12" oc
1,200	PT	PACHYSANDRA terminalis 'Green Sheen'	Green Sheen Pachysandra	Clump, No. 1 Container, 12" oc
160	SS	SEDUM spurium 'Red Carpet'	Red Carpet Sedum	Clump, No. 1 Container, 12" oc
OTHER				
62	HI	HEMEROCALLIS x 'Happy Returns'	Happy Returns Daylily	Clump, No. 2 Container
33	HA	HEUCHERA x 'Amber Waves'	Amber Waves Coral Bells	Clump, No. 2 Container
40	HP	HEUCHERA x 'Plum Pudding'	Plum Pudding Coral Bells	Clump, No. 2 Container
NOTE				
~157 SQ. FT.	SC	SEASONAL COLOR TO BE CHOSEN BY LANDSCAPE CONTRACTOR AND APPROVED BY OWNER (Spring, Summer, Fall Rotation)		



COURTYARD LANDSCAPE
SCALE: 1" = 10'

REVISION NUMBER	DATE

KKD
Katie Kady Design, LLC
205 Thornwood Rd
Cincinnati, OH 45240
513.233.1603

LANDSCAPE PLAN
GAHANNA ALZHEIMER
SPECIAL CARE CENTER
5195-5221 MORSE ROAD
GAHANNA, OHIO 43230

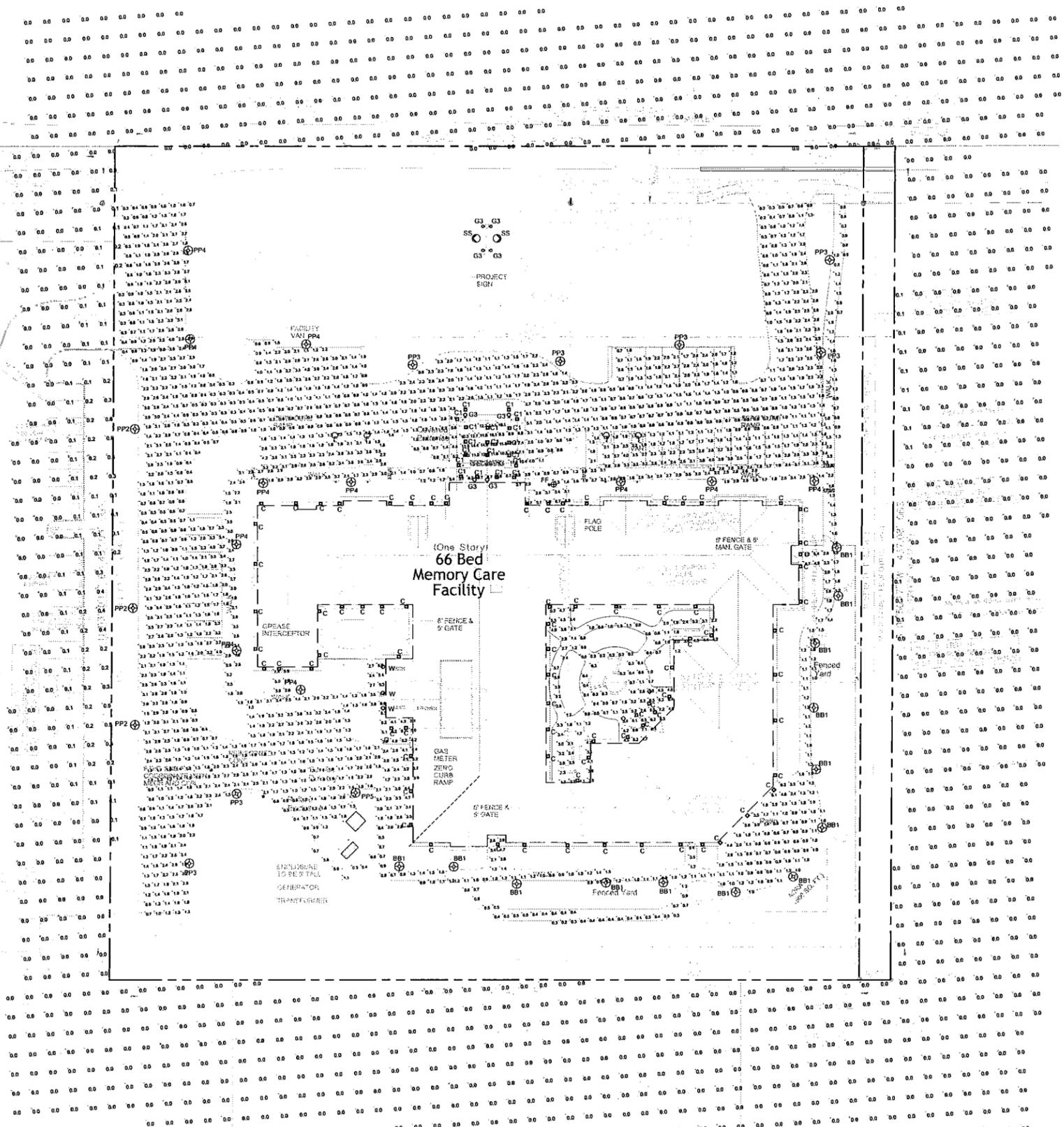
JEA SENIOR LIVING
Management • Development

DATE: OCTOBER 20, 2015
PROJECT NO.: 2015-JEA-1
DRAWN BY: KMK
CHECKED BY: KMK
SCALE: 1" = 10'

SEE A1.1 FOR ADDITIONAL REQUIREMENTS.

SEE E2.1 FOR LIGHT FIXTURE SPECIFICATIONS.

Statistics					
Description	Symbol	Avg	Max	Min	Max/Min
Court Yard	+	2.7 fc	8.5 fc	0.2 fc	42.5:1
E. Sidewalk	+	1.9 fc	9.0 fc	1.0 fc	9.0:1
N. Sidewalks	+	2.5 fc	8.7 fc	0.5 fc	17.4:1
Parking and Drive	+	1.8 fc	14.9 fc	0.2 fc	74.5:1
S. Sidewalk	+	1.3 fc	6.2 fc	0.2 fc	31.0:1
Spill	◇	0.0 fc	0.6 fc	0.0 fc	N/A
W. Sidewalk	+	2.9 fc	8.6 fc	0.3 fc	28.7:1



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 2291 LITTLE CLARK DR., Salem, Oregon 97301
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JEA SENIOR LIVING
 Management • Development

GAHANNA ALZHEIMER'S SPECIAL CARE CENTER
 GAHANNA, OHIO 43230

SITE PHOTOMETRIC PLAN

DATE XX/XX/2015

REVISED DATE

SHEET E1.0B

1 SITE PHOTOMETRIC PLAN
 E1.0B SCALE: 1" = 30'-0"



SHORT CIRCUIT, COMPONENT PROTECTION, FLASH HAZARD ANALYSIS, AND SELECTIVE COORDINATION STUDY

PART 1 GENERAL

1.1 SUMMARY

- A. Provide a short-circuit, component protection, flash hazard analysis, and selective coordination study for the emergency electrical distribution system from all power sources (normal and emergency) down to the branch circuit overcurrent protective device and equipment per NEC 700.27.
- 1.2 PURPOSE
 - A. The study shall calculate the available short-circuit current at each point in the emergency electrical distribution system. The overcurrent protective devices shall have an interrupting rating equal to or greater than the available short-circuit current at the point of application.
 - B. The study shall examine proper protection of emergency electrical system components and utilization equipment such that the equipment has a sufficient short-circuit current rating. If a specific type of overcurrent protective device is required for proper protection of equipment, it shall be noted in the report and reflected in the design of the system.
 - C. The study shall include a flash hazard analysis for electrical distribution equipment where required per codes and standards. The analysis shall determine the flash protection boundary, incident energy, and required level of personal protective equipment (PPE) for workers at the electrical distribution equipment. The flash protection boundary and incident energy shall be determined based upon a working distance of 18 inches. The electrical distribution equipment shall be field marked with this information in accordance with codes and standards.
 - D. The emergency overcurrent protective devices shall be analyzed for selective coordination. This analysis shall identify any potential selective coordination problems upon the available short-circuit current. Any areas where the overcurrent protective devices are not selectively coordinated shall be explicitly noted and recommendations shall be made to achieve selective coordination if desired.

1.3 REFERENCES

- A. The study shall be completed in accordance with the latest edition of IEEE Standard 242 - Recommended Practice for Protection and Coordination of Industrial and Commercial Power Systems.
- B. The flash hazard analysis shall be completed in accordance with latest editions of NFPA 70E - Standard for Electrical Safety Requirements for Employee Workplaces and IEEE Standard 1584 - Guide for Performing Arc-Flash Hazard Calculations.

1.4 QUALIFICATIONS

- A. The company and individual(s) performing the study shall have a minimum 5 years documented experience in power system analysis and completed projects of similar size and scope. The individual(s) performing the study shall be a registered Professional Engineer in the state of the project location.
- B. The company performing study shall have the capability and experience to provide assistance during system start up.

1.5 SCHEDULE

- A. The selection of the company and individual performing the study shall be submitted and approved by the design engineer prior to the start of the study.
- B. The study shall be completed and submitted prior to the equipment submittals. The study will be reviewed during the equipment submittal and review process. Any changes to the study or equipment will be noted in the returned submittals.
- C. Final approval of both the study and equipment submittals shall be given prior to the release of equipment for manufacturing.

1.6 SUBMITTALS

- A. The results of the study shall be summarized in report form. Submit 10 copies for review and approval by the design engineer.
- B. The results of the study shall include the following:
 1. Description, purpose, basis, and scope of study.
 2. Fault current calculations including definition of terms and guide for interpretation of computer printout.
 3. Tabulations of protective device and equipment ratings versus calculated short-circuit current, and commentary regarding same.
 4. Flash hazard analysis report for electrical distribution equipment.
 5. Time versus current curves or fuse selectivity ratio analysis, with tabulations of overcurrent protective device settings, and selective coordination analysis and commentary regarding same.
- C. If power company review and approval is required, the results of the study shall be submitted to the power company for review and approval. Approved copies from the power company shall be forwarded to the design engineer.

1.7 SUBMITTALS - CLOSOUT

- A. Submit ten copies of the final approved study to the electrical design engineer.

PART 2 PRODUCTS

2.1 REQUIREMENTS

- A. The short circuit and flash hazard analysis study shall be completed with the aid of a computer software program where possible.
- B. The available short-circuit current, corresponding required interrupting or short-circuit current ratings of components, and flash hazard analysis data, shall be calculated based upon the 3-phase bolted short-circuit current and phase to ground fault short-circuit current at each of the following (if applicable):
 1. Utility Service Point.
 2. Medium voltage switchgear.
 3. Medium voltage motor controllers.
 4. Medium-Low-Voltage Unit Substations.
 5. Low-voltage switchgear or switchboards.
 6. Distribution panelboards.
 7. Branch circuit panelboards.
 8. Motor control centers.
 9. Busway end busings.
 10. Other significant equipment or utilization equipment.
- C. The study shall include the following:
 1. Calculation methods and assumptions.
 2. One-line diagram (with available short-circuit current and flash hazard data identified).
 3. Calculations shall identify:
 - a. Available short-circuit currents from all power sources (AVA)
 - b. Motor fault contribution
 - c. Component impedance data
 - d. X to R ratio
 - e. Symmetrical and asymmetrical fault current characteristics
 - f. Flash hazard analysis data
 4. Tabulation of all calculation quantities and results
 5. Detailed description of each protective device identifying its type, function, manufacturer, interrupting rating, ampere rating, selected settings, and time-current characteristics.
 6. System component characteristic curves or short-circuit current ratings identified and/or plotted up to the maximum symmetrical fault current to which the component is exposed. Include the following where applicable:
 - a. Medium voltage equipment characteristics
 - b. Low voltage equipment characteristics
 - c. IEC conductor damage characteristics
 - d. Transformer characteristics
 - e. Motor and motor control equipment characteristics
 - f. Generator and transfer switch (manual or automatic) characteristics
 - g. Other system equipment characteristics
 7. Time-current curves prepared graphically on full size, log-log forms with title, one-line diagram, and specific system components analyzed.
 8. Conclusions regarding interrupting rating for overcurrent protective devices, flash hazard analysis, protection of components, selective coordination, and recommendations and requirements on the above.

PART 3 EXECUTION

3.1 INSTALLATION START-UP

- A. The contractor shall install equipment and protective devices in accordance with the approved short-circuit and selective coordination study.
- B. The contractor shall field mark equipment with flash hazard analysis data as required in accordance with codes and standards.
- C. The company performing the study shall provide assistance to the installing contractor during start up of electrical system and equipment as needed.

SECTION 16010 - GENERAL CONDITIONS

The electrical subcontractor is bound by the general and supplementary conditions, and Division I.

Document References

- In the case of discrepancies, the construction documents take precedence as follows:
 1. Change orders
 2. Addendum
 3. Specifications
 4. Large scale drawings
 5. Small scale drawings
 6. Submittal and equipment reviews
 7. Substitution requests.
- Specifications take precedence over substitution requests and submittal reviews. Where discrepancies/duplications occur, the more stringent requirements shall be provided.
- Where discrepancies/duplications occur, the more stringent requirements shall be provided.

Products under this contract shall meet minimum specification requirements in detail without exception unless specifically noted and approved as provided in these specifications. Equipment submitted for review must clearly state on cover sheet any differences from specified product. Equipment substitution or submittal review does not relieve contractor from meeting all requirements of specified item.

Scope of Electrical Work

Materials and workmanship shall be furnished and installed for complete, tested, and operating electrical systems as shown on the drawings and specified herein.

Electrical work is to include the electrical service, complete to the point of connection with the serving utility. Any changes or work required by the serving utility, are part of this work and shall be fully included in the bid price.

Work is also to include main distribution panel, feeder system and branch circuit panels. Complete branch circuit wiring, light fixtures, wall switches, receptacles and similar items, exterior lighting and wiring, and wiring and connections to mechanical equipment, all fire alarms, intercom/emergency call systems, phone system, unit phone wires, and kitchen equipment as required. Coordinate services with all trades. Coordinate locations of wiring conduit and other runs with other trades in confined areas such as in the ceiling ceilings.

Quality Assurance

Work is to comply to the governing electrical codes as required and noted on the cover sheet, and shall comply with all applicable local codes, rules, and ordinances. All regulations, requirements and changes of the local utility company shall be complied with and paid. Materials used are to be listed by locally accepted listing agencies. Provide work per industry standards of acceptance and industry practice.

Coordination

Check all equipment locations and connections on the site for coordination with other divisions equipment, connections, structure, and the like. Location of electrical equipment shall not impede reasonable placement of furnishings including artwork. Locate readily accessible and readily used equipment such as switches near ends of walls where shown or to the nearest ready use of walls for furnishings and artwork.

Testing

Test all parts of system at completion of installation. Insura owns personnel in all aspects of operation.

Warranty

Contractor to provide full warranty on materials and workmanship for a period of one year after final completion of project.

Trenching and Backfill

Follow trenching and back fill requirements of local codes and ordinances, and pipe trenching detail on drawings.

PROTECTION OF PENETRATIONS AT FIRE RATED CONSTRUCTION

Protect penetrations of fire rated or draft stop construction. Typical for penetrations including conduit, fixtures, outlets, pipes, panel boxes, etc. Protection to be consistent with type of materials:

- 1. Metal materials extending minimum 18 each side of surface - draft seal with one of the following
 - a. Listed silicone foam
 - b. Other listed product as approved
- 2. Other materials including plastic conduits and cables: UL listed fire barrier penetration sealing system. Install according to manufacturers instructions. Listing and approval:
 - ASTM E-119 fire test of building construction and materials.
 - UL 1473 Intertap, tests of through penetrations.
 - ASTM E-814 fire tests of through penetration fire stops.
 - ICBO, IBOCA, SBICC, NBC (Nat. Research Bd. REPORT NR8-243).
 - As required by AEC.

Electrical Devices in Common Wall

Electrical boxes shown in common walls serving adjacent rooms are to be offset from each other a minimum of 24" horizontally. Do not mount boxes back to back in any location.

SECTION 16020 - Submittals

- Provide 5 (five) copies of shop drawings and catalog cuts of materials and equipment listed to architect prior to ordering of equipment. Alternate equipment will be considered for use only with proper Pre-Bid submittal, CSI substitution request form and procedures as given in the general supplementary conditions.
- Submit schedule for product evaluation indicated below. Each item requiring a submittal is given the following code:
 - L Manufacturer's Label
 - C Manufacturer's Catalog data (cuts)
 - E Technical and Engineering data
 - S Shop drawings
 - SA Samples
 - CR Certifications/Qualifications
- 16100 - Wiring Systems - L
- 16010 - Firestopping (For Arch. review) - C, E
- 16140 - Wiring Devices - C, S
- 16170 - Disconnects - C, S
- 16185 - Identification - L
- 16400 - Panels - C, E, S
- 16500 - Lighting - C, E, S
- 16520 - Timing Switches - C, E, S
- 16590 - Heaters - C, E, S
- 16600 - Emergency Generator System - C, E, S, CR (Regardless of Supplier, Contractor shall submit generator/ATS information)
- 16700 - Low Voltage - C, E, S, CR

SECTION 18100 - Wiring Systems

Building is classified as a Limited Care Facility as defined by NEC section 517.2. Business offices, corridors, lounges, day room, dining rooms and similar areas are not classified as patient care areas. Per 517.10(B)(2) the patient sleeping rooms of limited care facilities shall be allowed in accordance with Chapter 1 through 4 of the NEC. Therefore the above areas may be wired in NM where allowed by Chapters 1 through 4 of the NEC, specifically NEC section 330.10.

In accordance with section 517-Health Care Facilities patient care areas, Nurse Office, shall meet the requirements of NEC section 517.13.

Provide EMT in unfinished spaces where raceway is not concealed such as in mechanical and electrical rooms as required by the NEC and local codes. All raceway in finished areas shall be concealed. Where conduits are exposed above a suspended ceiling, provide a listed metal raceway.

Fire alarm conductors shall be installed in accordance with NEC Article 760. Provide RMC for interior concrete encased raceway or where EMT is subject to damage.

Aluminum conductors may be used in services and feeders 60A and larger. All branch circuit conductors shall be copper conductor. Sizes indicated on drawing are based upon copper ampacity.

Provides conductors with type THWN, THW and XHHW in dry conductors in dry locations only. Provide conductors with type THWN, THW and XHHW in dry conductors or wet locations.

Conductors smaller than #12 AWG for branch circuits not permitted.

Conductors shall not be less than 12AWG. All other circuits shall be sized as noted or as required by equipment served.

Liquid tight flexible metallic conduit shall be used in short (2 foot nominal) lengths for all equipment which: Vibrates, May need to be made for bending, or is exposed to weather.

Outside the building and below grade, wiring may be in schedule 40 PVC conduit with grounding conductor if acceptable by local codes.

Install exterior circuits underground. Direct buried branch circuit wiring outside the building and below grade may be in type UF moisture resistant cable, not less than 10AWG conductors or as noted. Comply with electrical code as required and noted on cover.

Clean and clear-out raceway prior to installation of any conductor/pull string. Provide pull string in empty raceways. Provide listed pulling lubricant/compound for installing conductors in raceway systems.

SECTION 16140 - Wiring Devices

Duplex receptacles: 2 blade grounding type, nylon face, 15 Amp, NEMA 5-15R, Leviton Decora 5255, Residential Grade) in suites, 20 Amp, NEMA 5-20R, Leviton Decora 16352, (Spec. Grade) in Common areas. G.F.C.I. Receptacles: 2 blade grounding type, nylon face, 20A NEMA 5-20R.

Switches: Back & side wired 120/277v AC Leviton Decora AC quiet rocker switches 20-amp Spec. Grade in public areas, and 15-amp Residential Grade in suites.

Dimming Switch: 1650w, 120v, 60Hz, Leviton 81500 Series. With slide to off function. Other wiring devices not listed here or elsewhere on drawings to be Specification Grade in common areas, Residential Grade in suites, contractor selected, subject to approval.

Automatic wall switches: Dual technology, conformance with Energy Code. Coverage verified by manufacturer. Sensor/switch WSD-P07-W.

Ceiling Mounted Occupancy Sensor: Dual Technology, conformance with energy code, coverage verified by manufacturer. Complete system by sensor manufacturer. Sensor Switch CMR-P01.

Devices (receptacles, switches, line switches) and cover plates shall be white, unless on emergency power, provide red receptacles and cover plates.

20A Stainless steel cover plates required in commercial kitchens.

SECTION 16170 - Disconnects

Motor and circuit disconnects shall be UL listed. Constructed of not less than NEMA 1 where installed indoor dry locations. Enclosures for outdoor, or wet locations shall be not less than NEMA 3R. NEMA rating as required where installed. Rated at voltage connected not less than 240 Volts. Heavy duty, quick make, quick break. Number of poles, fusing, and ampacity as noted and required by Code. Solid ground, Solid neutral with AVO compression or set screw type. ON/OFF positions shall be clearly marked and lockable in OFF position. Provide interlock with deframer for authorized personnel. Interlock to prevent disconnect from being opened when "ON" or "barn door" with cover open.

Provide disconnect per Code on all machines, HVAC equipment, water heaters including but not limited to: FSD's, AC units, Condenser units, commercial dishwasher, EP's, etc.

SECTION 16195 - Identification

Identify components with readily printed labeled routed phenolic plastic signs, including any pertinent information for the owner. Panel directories to be typewritten on factory issued card, showing circuit number and description of use of each circuit. Permanently attach to inside of panel door.

SECTION 16400 - Panels

Main panel to be Siemens. Panel shall be sized, arrangement, and capacity as shown. Verify available fault current with utility. Contractor is responsible for size of equipment within footprint shown. Verify physical equipment size.

Provide branch circuit panel board, with equal or greater series AIC rating shown on E2.2 not rated less than 10,000 AIC, with bolt-on circuit breakers with the same AIC rating as the panel board. Load centers are not permitted.

Panel shall be lockable and include "door-in-door" type construction.

See one-line for additional locking requirements.

Determine available fault current from serving electric utility at point of service. Calculate fault current at each panel board throughout distribution system. Provide equipment with equal or greater series equipment AIC rating. Provide flame label on switchboards and panelboards per NEC 110.16. Labels from panel equipment manufacturer, Senator, or approved. Submit fault current from utility in writing clearly shown from utility (each as later on utility letter-head). Fault currents shown are for reference only based on general conditions.

SECTION 16450 - Grounding

Grounding Electrodes to be installed per the NEC 250.50, 250.52 and 250.53 using any of the types listed as required (A)(1) thru (A)(7). For the installation requirements in 250.53 of metal underground piping (i.e. copper water piping service) to be used as the grounding electrode a supplemental electrode is required (see 250.53 (D)(2)) supplementing with an additional electrode specified in 250.52 (A)(2) thru (A)(7).

SECTION 16500 - Lighting

See Lighting Fixture Schedule and notes.

Circuit emergency and exit fixtures (E- labeled) to emergency panel. Emergency lights and exit lights are to be switched per plans using Bostons QT202A, NAYE 24 or approved UL524 listed emergency lighting relay.

Emergency corridor lighting to be on continuously, unswitched.

Switch common area lighting where indicated with a maximum of 1440 watts per circuit.

SECTION 16520 - Time Switches

Contour lights: 24 hour type, PCL LiteKeeper Series. Mount in mechanical room.

Exterior lights: 7-day astronomical time control. PCL LiteKeeper Series. Provide photo sensor. Mount in mechanical room.

SECTION 16590 - Baseboard Heaters

Baseboard heaters shall be size and voltage as shown, 250 watt per foot nominal densities. Q-MARK 2500 Series. Heater and thermostat shall be white in color. Control with wall mount line voltage remote thermostat, type TA1AW. Heater and thermostat shall be white in color. Heaters provided and connected by Electrical, but sized during design by Mechanical Engineer.

Wall Heaters

Wall heaters shall be size and voltage as shown with integral thermostat, recessed type, Q-MARK CFG 151272M. Fixture shall be white in color. Heaters provided and connected by Electrical, but sized during design by Mechanical Engineer.

Unit Heaters

Unit heaters shall be size and voltage as shown. Q-MARK Type MUH. Control with wall-mount line voltage thermostat Type MT-1. Heater shall be white in color.

SECTION 16600 - EMERGENCY GENERATOR SYSTEM

Emergency Generator
Emergency generator shall be 120/208 volt, 3 Phase, 4 wire WYE Unit, 80KW nominal output, diesel fired standby engine/generator.

Unit shall be complete with transfer switch, low oil, high temp, over speed, voltage controls and gauges; starting batteries, continuous charging hardware, output circuit protection, water jacket heater and weatherproof sound-attenuated enclosure. Unit shall be complete with all accessories as recommended by the manufacturer, and shall be furnished complete with manufacturers start-up service. All equipment and installation shall conform to article 445 on the NEC. Diesel unit must be equipped with UL 142 double-walled 24 hour capacity fuel tank base.

Cummins, Kohler fast response II, KatoLight, Generac, or approved equal.

Mount on concrete pad location indicated on site plan. Circuit to transfer switch in mechanical room as shown by riser diagram.

Integral generator breakers shall be coordinated with distribution equipment. Breakers shall be by same manufacturer as the panels/switchboard to assure selective coordination. Provide breaker, include from C auxiliary contact.

Automatic Transfer Switches

Rating as shown. 120/208 volt 3 pole plus solid neutral. Equip with manual test button, engine starting contact mechanically held, automatic return to normal. Transfer switches shall be manufactured by, and the responsibility of, the generator manufacturer.

ATS shall include from C auxiliary contacts mounted on mechanically operated switch blade shaft of ATS.

Boxes and enclosures in the emergency system to be painted red and labeled with pharolic plastic sign saying Emergency so as to clearly identify components of system. Provide placard required by NEC 700.4(a).

SECTION 16700 - Low Voltage Installation

Low voltage equipment installation shall maintain fire ratings of wall. Equipment to be mounted on 2x4x4 listed beam. The use of Med fittings only, is not acceptable. Check with local codes on entering low voltage wire directly into units smoke detectors (120 volt only). Run low voltage separate from 120v and at least 24" from service cables in corridors. Do not mount boxes back to back.

EMERGENCY POWER SYSTEM

Light fixtures with the "E" designation shall be wired to emergency panel. In the event of a power failure, the emergency generator will start and the automatic transfer switch provide emergency power to the emergency distribution system, and the emergency lights, including exit signs.

16500 - LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	LAMPS
A	2x4' FLUORESCENT 3 LAMP FLUORESCENT TROFFER (SUSPENDED)	LITHONIA 2618-3-32-A12125-MVOLT-1V2-GB10IS	(3) 32W T8
B1	1x4' FLUORESCENT 2 LAMP FLUORESCENT SURFACE MOUNT	LITHONIA SB2-32-MVOLT-GB10IS	(2) 32W T8
D1	8" FLUORESCENT DOWNLIGHT, OPEN CLEAR SEMI-SPECULAR REFLECTOR, WITH WHITE TRIM RING	LITHONIA LFBN-2/26DTT-FR02AZ-MVOLT	(2) 26W DTT
D2	8" FLUORESCENT DOWNLIGHT WITH WET LENS, WITH WHITE SPRAY, FRESNEL LENS, WITH WHITE TRIM RING	LITHONIA LFBN-2/26DTT-FRL4-MVOLT	(2) 26W DTT
G	ADA WALL SCENE, 4" MAX DEPTH, (120 WATT MAX LOAD) FIXTURE PROVIDED BY OWNER, INSTALLED BY ELECTRICIAN. SEE OWNER PROVIDED INTERIORS SPEC BOOK FOR FIXTURE TYPE, MOUNTING HEIGHT AND MOUNTING LOCATION.	SELECTED BY INTERIORS	SELF BALLASTED COMPACT FLUORESCENT LAMPS
G1	WALL SCENE IN DINING ROOM 064 AND 069, (120 WATT MAX LOAD) FIXTURE PROVIDED BY AND INSTALLED BY ELECTRICIAN. SEE OWNER PROVIDED INTERIORS SPEC BOOK FOR FIXTURE TYPE, MOUNTING HEIGHT AND MOUNTING LOCATION.	SELECTED BY INTERIORS	SELF BALLASTED COMPACT FLUORESCENT LAMPS
G2	WALL SCENE IN CONFERENCE ROOM 048, (120 WATT MAX LOAD) FIXTURE PROVIDED BY AND INSTALLED BY ELECTRICIAN. SEE OWNER PROVIDED INTERIORS SPEC BOOK FOR FIXTURE TYPE, MOUNTING HEIGHT AND MOUNTING LOCATION.	SELECTED BY INTERIORS	SELF BALLASTED COMPACT FLUORESCENT LAMPS
H	UNIT BATH RECESSED HEAT LAMP AND LIGHT	BROAN MODEL #163	(1) 250W BR40 INFERRED BULB (1) 26W BR40 SELF BALLASTED COMPACT FLUORESCENT LAMP
K1	CHAIN HUNG CHANDELIER IN LARGE DINING ROOM 064, (180 WATT MAX LOAD) FIXTURE PROVIDED BY AND INSTALLED BY ELECTRICIAN. SEE OWNER PROVIDED INTERIORS SPEC BOOK FOR FIXTURE TYPE, AND MOUNTING HEIGHT.	SELECTED BY INTERIORS	SELF BALLASTED COMPACT FLUORESCENT LAMPS
K2	SEMI-FLUSH CHANDELIER IN DINING ROOM 088, (180 WATT MAX LOAD) FIXTURE PROVIDED BY AND INSTALLED BY ELECTRICIAN. SEE OWNER PROVIDED INTERIORS SPEC BOOK FOR FIXTURE TYPE, AND MOUNTING HEIGHT.	SELECTED BY INTERIORS	SELF BALLASTED COMPACT FLUORESCENT LAMPS
K3	CHAIN HUNG CHANDELIER, IN CONFERENCE ROOM 048, (180 WATT MAX LOAD) FIXTURE PROVIDED BY AND INSTALLED BY ELECTRICIAN. SEE OWNER PROVIDED INTERIORS SPEC BOOK FOR FIXTURE TYPE, AND MOUNTING HEIGHT.	SELECTED BY INTERIORS	SELF BALLASTED COMPACT FLUORESCENT LAMPS
M	14" DIA. X 3"H. FLUORESCENT UNIT CEILING LIGHT.	AMAX FL-V002C2	(1) FC419 (1) FC1219
N	SUITES - IN WALL LED NIGHT LIGHT, MOUNT IN SINGLE GANG BOX WITH DUSK TO DAWN PHOTOCELL AND ON/OFF SWITCH, SNAP ON PLASTIC COVER.	COOPER WIRING DEVICES 773J	LED
O	SURFACE MOUNT CHAIN HUNG PENDANT, 7" DIA. X 14"H. CREAM SHOWN GLASS SHADE. GRESHAM BRONZE FINISH, (100 WATT MAX LOAD)	MURRAY FEISS P1095GBZ	USE (1) 23 WATT CFL, 3500°K WARMED, BASE ITEM #41223 T.C.P., INC.
P1	INCANDESCENT PLASTIC CEILING LAMPHOLDER KEYLESS (100 WATT MAX LOAD)	COOPER WIRING DEVICES S1174W	USE (1) 23 WATT CFL, 3500°K WARMED, BASE ITEM #41223 T.C.P., INC.
P2	INCANDESCENT SURFACE MOUNT FIXTURE, (60 WATT MAX LOAD)	VOLUME LIGHTING V7005-6	USE (1) 13 WATT CFL, 3500°K WARMED, BASE ITEM #41213 T.C.P., INC.
S2	4" 2-LAMP FLUORESCENT STRIP LIGHT.	LITHONIA C-2-32-MVOLT-GB10IS	(3) 32W T8
S3	4" ENCLOSED FLUORESCENT LENSED AND GASKETED FIXTURE, UL LISTED WET LOCATION, 200W/16.	LITHONIA DMW-2-32-MVOLT-GB10IS	(3) 32W T8
V	2' FLUORESCENT VANTY LIGHT.	LITHONIA WC-2-17-MVOLT-GB10IS	(2) 17W T8
X	UNIVERSAL EXIT SIGN, CEILING MOUNTED - EXIT SIGN [] LETTERS WITH DIRECTION ARROWS AS INDICATED, LETTER COLOR PER LOCAL CODE.	LITHONIA LOM-S-W-3-120277-EL-N	LED

- NOTES:
- 1. SOME FIXTURES MAY NOT BE USED. VERIFY WITH PLANS.
- 2. "E" DESIGNATION: FIXTURES INDICATED WITH AN "E" SHALL BE WIRED SEPARATELY ON EMERGENCY CIRCUITS.
- 3. MAINTAIN 6" MINIMUM CLEARANCE BETWEEN INSULATION AND RECESSED FIXTURES - SEE LIGHTING FIXTURE PROTECTION DETAIL ON DETAIL SHEET. TYPICAL OF ALL RECESSED FIXTURES.
- 4. ALL EXIT LIGHTS TO BE WIRED TO EMERGENCY PANEL.
- 5. FIXTURE IS SUBJECT TO ARCHITECTURAL APPROVAL. SUBMIT FIXTURE PRIOR TO ORDERING.
- 6. PROVIDE IN-FIXTURE DISCONNECT ON ALL FLUORESCENT FIXTURES WITH DOUBLE ENDED LAMPS.

SUBMITTALS:
-PRIOR TO ORDERING LIGHTING FIXTURES AND ACCESSORIES LISTED ABOVE, PROVIDE SUBMITTAL OF PRODUCT DATA TO ARCHITECT FOR APPROVAL.
-ALL FLUORESCENT FIXTURES TO HAVE ELECTRONIC BALLAST(S), LESS THEN 10% THD, INSTANT START, COLD WEATHER TYPE WHERE REQUIRED.
-NO PCBs IN ANY BALLASTS.

16500 - EXTERIOR LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	LAMPS
B1	10' LED FULL CUTOFF ACORN STYLE RESONANCE SERIES SITE POLE LIGHT, POWDER COAT BLACK FINISH, WITH 10" HIGH, ROUND STRAIGHT NON-TAPERED EXTRUDED ALUMINUM POLE, FLAT GLASS LENS, TYPE V LIGHT DISTRIBUTION, 2 MODULES, 18 LED, 350mA, 4100K, 200V/10 CONNECTION.	ANTIQUE STREET LAMPS LTRC10-18LED-350mA-41K-GCF R2-208-DBL POLE-PX RC19-16-4C-3T3-DBL	LED 1,285 LUMENS 23 WATTS
B2	44" HIGH LED BOLLARD, RESONANCE SERIES, POWDER COAT BLACK FINISH, FLAT GLASS LENS, TYPE V LIGHT DISTRIBUTION, 2 MODULES, 18 LED, 700mA, 4100K, 200V/10 CONNECTION.	ANTIQUE STREET LAMPS LTRCB10-18LED-700mA-41K-GCF R2-208-DBL	LED 1,285 LUMENS 23 WATTS
C	LED SURFACE MOUNT DISK LIGHT, 7.8" DIA X 0.7" DEEP, FITS IN STANDARD JUNCTION BOX, WHITE FINISH, 1,000 LUMENS, 4,000K CCT, 90 CRI		



CITY OF GAHANNA

STAFF COMMENTS

Project Name: Gahanna Alzheimer Special Care Center
Project Address: 5195-5221 Morse Rd

Planning and Development

The applicant is requesting Final Development Plan, Variance, and Design Review approval for a new 66 bed memory care facility. The facility is located on 4 acres of property zoned Suburban Office (SO). Nursing and personal care facilities are a permitted use within the SO zone district. Adjacent properties are developed with a mix of uses which includes office, multifamily, and vacant/undeveloped.

The property is located within the North Triangle Concept Plan. The Plan recommends a 150' open space corridor measured from the centerline of Morse Road. Permitted uses within the open space corridor includes landscaping and signage. The applicant proposes a setback of approximately 100'. This is consistent with the adjacent office development to the west and is similar to other recent approvals in the surrounding area.

The Plan also recommends that direct access to Morse Road be limited to intervals no less than 600'. The site has approximately 410' of frontage with two access points proposed. The western most access is shared with the adjacent office facility.

It should be noted that the North Triangle Concept Plan is meant to guide decisions. It does not mandate the above mentioned recommendations. The Plan was adopted in 1997. Since that time, the properties within the north triangle have developed significantly different than what was anticipated. Most notably, access roads within this area did not develop as the Plan recommended. For this reason, in part, staff has no objection to the applicant's request for two access points on Morse Road. The other factor to consider is the use of the properties to the east. One property is owned by the applicant and the other is a several acres tract of undeveloped land. The location of the proposed access points does not appear to cause any traffic related issues. Additionally, the proposed use, memory care, does not generate a significant amount of traffic. It is estimated that a 66 bed facility would generate approximately 281 trips per day.



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The North Triangle Concept Plan proposed a network of internal roads that would have minimized the need for individual access points, however, properties did not develop as anticipated.

FDP

A Final Development Plan (FDP) should encourage orderly development and be designed in a manner that is keeping with the overall character of the community. The corridor in which the request is located has experienced a substantial amount of development in the past decade. The corridor is developed with a mix of office, multifamily residential, and senior living facilities. The proposed use is permitted by the zoning and is configured in a manner that is reminiscent of other developments in the area.

Four factors to consider when evaluating an FDP include the following:

1. The proposed development meets the applicable development standards for the zoning code.

Staff is of the opinion that the request meets the development standards of the zoning code with the exception of the variance requests. All other standards have been met.

2. The proposed development is in accord with appropriate plans for the area.

The development is located within the boundaries of the North Triangle Concept Plan. The request varies from some of the recommendations of the Plan in that a 100' open space corridor has been provided along Morse Road and access is proposed at intervals less than 600'. It should be noted that the Plan dates back to 1997. Since that time the area has developed in ways inconsistent with the recommendations of the Plan. Staff recommends approval of the request as submitted as it meets the intent of the Plan's recommendations.

3. The proposed development would not have an undesirable effect on the surrounding area.



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It is staff's opinion that the request would not have an undesirable effect on the surrounding area. The request, if approved, will create new jobs, investment in the area, and is a use which is underrepresented in the community. Studies have shown that central Ohio needs additional senior housing, assisted living, and similar facilities in the region. The region's population is projected to grow by 500,000 people over the next 35 years with the most growth occurring in the 65 or older category.

4. The proposed development would be in keeping with the existing land use character and physical development potential of the area.

The development is of a similar size, scale, and appearance as other recent developments in the area. Because of the nature of the use and height of the building, it will be less intense and create less of an impact than other uses in the area.

Variance

A variance to the setback requirement to residential zoned property has been requested. The property to the south is developed with multifamily residential, the property to the east is zoned multifamily but not developed. Additionally, the property to the east is also owned by the applicant. A setback of ???' is proposed along the southern property line. The existing multifamily units are approximately 20' from the property. Creating a structure to structure setback of ???'. A setback of ???' is provided along the eastern property line.

Conditions for approval of a variance include the following:

1. There are special circumstances or conditions applying to the land, building, or use.

Staff believes that a special circumstance exists as the eastern property is zoned residential, however, it is owned by the applicant and too narrow to be developed. If the property were not designated residential on the zoning map then a 10' setback would be required. The reduced setback along the rear property appears justified as the open space corridor along Morse Road makes a significant portion of the property unusable. The proposed use is low intensity and similar in nature to multifamily, thus eliminating any possible compatibility issues caused by the reduced setback.

2. Granting the variance is necessary for the preservation and enjoyment of property rights.

Granting the requested variance will allow for the site to develop at an intensity appropriate for the area. The project could build a two story building, however, this would cause an unsafe condition for the residents of the facility. Additionally, the extra building height could create more of a visual impact to neighbors and the drive sequence along Morse Road.



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3. Granting the application will not adversely affect the health, safety, and welfare of the neighborhood.

The variances, if granted, would not create an unsafe condition. Approving the request would in fact avoid creating potential safety issues for future residents of the facility by allowing the facility to remain at a single story.

Design Review

The primary purpose of design review is to create a design environment that enhances the community through architecture and exterior appearance. Local concerns, economic feasibility and the existing design environment should be a part of the evaluation and approval process.

Applications for design review shall meet the following criteria:

1. Stylistically compatible with other new, renovated, and existing structures in the district in order to maintain design continuity.
2. Contribute to the improvement and upgrading of the architectural and design character of the District.
3. Contribute to the continuing economic and community vitality of the District.
4. Maintain, protect and enhance the physical surroundings of the District.

In keeping with the residential feel of the surrounding area, the applicant proposes to use brick accents and neutral siding (see images below). Design Review District 3, where the site is located, promotes the use of brick as a way of adding visual interest.

Rendering



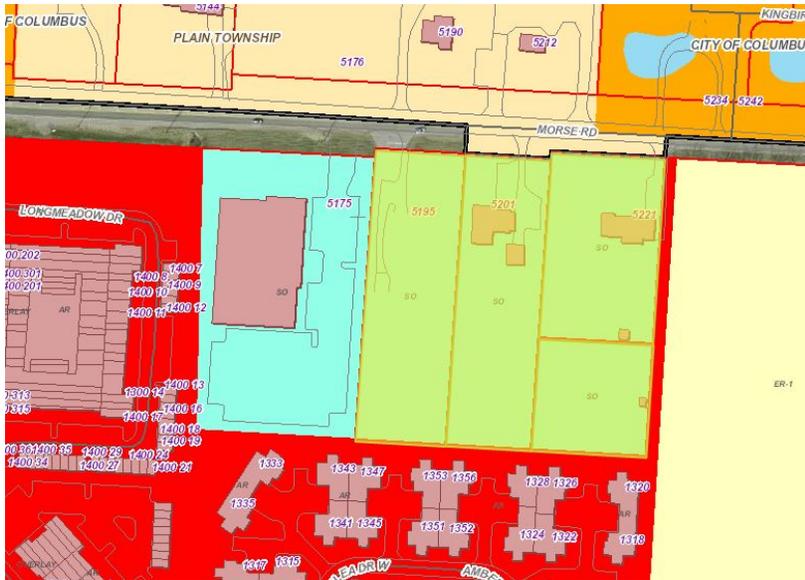
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Zoning Map



Future Land Use Map



Respectfully Submitted By:
Michael Blackford, AICP
Deputy Director, Planning and Development





CITY OF GAHANNA

STAFF COMMENTS

Project Name: Gahanna Alzheimer Special Care Center
Project Address: 5195-5221 Morse Rd

Exterior finishes for this one story building include brick, siding, and architectural shingles in a natural color palette. There are a few existing trees scheduled to be preserved. The landscape plan is robust and will provide a beautiful aesthetic for the residents. Site lighting will provide a residential feel to the property. A photometrics plan and cut sheets for the fixtures have been provided.

The location of the proposed monument sign has been illustrated just inside the proposed ROW along Morse Road. I would like to see this moved 15' south, as it could become a sight hindrance when the ROW is relocated.

Respectfully Submitted By:

BONNIE GARD

Planning & Zoning Administrator
Department of Planning & Development
Division of Building & Zoning



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STAFF COMMENTS (Revised 20151102)

Project Name: Gahanna Alzheimer Special Care Center
Project Address: 5195-5221 Morse Rd

General Comments

- A formal final engineering plan review will be performed following approval of the Final Development Plan.

Site Access

- Information provided by the developer shows that the development will not generate more than 100 vehicle trips in the peak hour, or more than 1,000 total trips in a 24 hour period, thus will not require a Traffic Impact Study.
- A right turn lane warrant analysis shall be performed for the existing shared use entrance.
- The proposed site plans shall be coordinated with the Morse Road improvements currently under construction.
- The dedication of the additional right-of-way shall be dedicated to the City of Gahanna as part of the Final Engineering Plan review process.

Sanitary Sewer

- There is an existing 8 inch sanitary sewer manhole located near the southwest corner of the site that can be accessed to provide sanitary sewer service for the development.

Water Service

- There is an existing 8 inch water line located in an easement running along the south side of the site. This line can be tapped to provide service to the development for both domestic and fire suppression.
- Check with Jefferson Township Fire Department to verify that the existing hydrant located just west of the site and the Columbus hydrants along Morse Road provide adequate fire protection.

Stormwater Management

- It appears storm water detention and water quality requirements will be addressed with parking lot detention and a water quality (WQ) unit. Detention and water quality treatment design to be per City of Gahanna standards, Codified Ordinances Chapter 1193.



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- We recommend that consideration be given to incorporating green infrastructure best management practices (BMP's) for detention and water quality measures.
- Erosion Control design and Post Construction Runoff Control to be per City of Gahanna (Chapter 1195) and Franklin Soil and Water Conservation District requirements.

Respectfully Submitted By: Robert S. Priestas



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STAFF COMMENTS

Project Name: Gahanna Alzheimer Special Care Center

Project Address: 5195-5221 Morse Rd

1. Minimum 26' wide access road (east entrance)
2. Minimum 26' wide access road in front of building
3. West access road heavy duty pavement starting at road
4. FDC sign (with arrow) posted on West side of property indicating location of FDC
5. Addition fire hydrant required to achieve fire flow (see fire code official for location)
6. Turing performance analysis for ladder truck (Northwest corner of parking lot)

Specs of Ladder Truck

Curb to Curb 39' 8"

Wall to Wall 47' 4"

Inside Turn 24' 1"

Respectfully Submitted By:

Chad Mast
Fire Prevention Bureau
Jefferson Township Fire
614-588-5880



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STAFF COMMENTS

Project Name: Gahanna Alzheimer Special Care Center
Project Address: 5195-5221 Morse Rd

No comments on the general layout of the project.

Respectfully Submitted By:

*Kenneth W. Fultz
Chief Building Official*



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STAFF COMMENTS

Project Name: Gahanna Alzheimer Special Care Center
Project Address: 5195-5221 Morse Rd

No Comment

Respectfully Submitted By:

Troy Euton, Director P&R



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