



# DEVELOPMENT APPLICATION

City of Rockwall  
Planning and Zoning Department  
385 S. Goliad Street  
Rockwall, Texas 75087

### STAFF USE ONLY

PLANNING & ZONING CASE NO. \_\_\_\_\_

**NOTE:** THE APPLICATION IS NOT CONSIDERED ACCEPTED BY THE CITY UNTIL THE PLANNING DIRECTOR AND CITY ENGINEER HAVE SIGNED BELOW.

DIRECTOR OF PLANNING: \_\_\_\_\_

CITY ENGINEER: \_\_\_\_\_

PLEASE CHECK THE APPROPRIATE BOX BELOW TO INDICATE THE TYPE OF DEVELOPMENT REQUEST (SELECT ONLY ONE BOX):

#### PLATTING APPLICATION FEES:

- MASTER PLAT (\$100.00 + \$15.00 ACRE)<sup>1</sup>
- PRELIMINARY PLAT (\$200.00 + \$15.00 ACRE)<sup>1</sup>
- FINAL PLAT (\$300.00 + \$20.00 ACRE)<sup>1</sup>
- REPLAT (\$300.00 + \$20.00 ACRE)<sup>1</sup>
- AMENDING OR MINOR PLAT (\$150.00)
- PLAT REINSTATEMENT REQUEST (\$100.00)

#### SITE PLAN APPLICATION FEES:

- SITE PLAN (\$250.00 + \$20.00 ACRE)<sup>1</sup>
- AMENDED SITE PLAN/ELEVATIONS/LANDSCAPING PLAN (\$100.00)

#### ZONING APPLICATION FEES:

- ZONING CHANGE (\$200.00 + \$15.00 ACRE)<sup>1</sup>
- SPECIFIC USE PERMIT (\$200.00 + \$15.00 ACRE)<sup>1 & 2</sup>
- PD DEVELOPMENT PLANS (\$200.00 + \$15.00 ACRE)<sup>1</sup>

#### OTHER APPLICATION FEES:

- TREE REMOVAL (\$75.00)
- VARIANCE REQUEST/SPECIAL EXCEPTIONS (\$100.00)<sup>2</sup>

#### NOTES:

<sup>1</sup>: IN DETERMINING THE FEE, PLEASE USE THE EXACT ACREAGE WHEN MULTIPLYING BY THE PER ACRE AMOUNT. FOR REQUESTS ON LESS THAN ONE ACRE, ROUND UP TO ONE (1) ACRE.  
<sup>2</sup>: A **\$1,000.00** FEE WILL BE ADDED TO THE APPLICATION FEE FOR ANY REQUEST THAT INVOLVES CONSTRUCTION WITHOUT OR NOT IN COMPLIANCE TO AN APPROVED BUILDING PERMIT.

### PROPERTY INFORMATION [PLEASE PRINT]

ADDRESS: PARCEL ID 11460 & 10027

SUBDIVISION: SUBDIVISION CODE A0134 & A0002

LOT: \_\_\_\_\_

BLOCK: \_\_\_\_\_

GENERAL LOCATION: SOUTHWEST CORNER OF I-30 & JOHN KING BLVD

### ZONING, SITE PLAN AND PLATTING INFORMATION [PLEASE PRINT]

CURRENT ZONING: COMMERCIAL

CURRENT USE: VACANT

PROPOSED ZONING: COMMERCIAL

PROPOSED USE: GROCERY

ACREAGE: 12.519

LOTS [CURRENT]: 2

LOTS [PROPOSED]: 1

**SITE PLANS AND PLATS:** BY CHECKING THIS BOX YOU ACKNOWLEDGE THAT DUE TO THE PASSAGE OF HB3167 THE CITY NO LONGER HAS FLEXIBILITY WITH REGARD TO ITS APPROVAL PROCESS, AND FAILURE TO ADDRESS ANY OF STAFF'S COMMENTS BY THE DATE PROVIDED ON THE DEVELOPMENT CALENDAR WILL RESULT IN THE DENIAL OF YOUR CASE.

### OWNER/APPLICANT/AGENT INFORMATION [PLEASE PRINT/CHECK THE PRIMARY CONTACT/ORIGINAL SIGNATURES ARE REQUIRED]

OWNER: HEB, LP

APPLICANT: BGE, INC.

CONTACT PERSON: BEN SCOTT

CONTACT PERSON: NICK HOBBS

ADDRESS: 646 SOUTH FLORES STREET

ADDRESS: 2595 DALLAS PKWY, SUITE 101

CITY, STATE & ZIP: SAN ANTONIO, TEXAS 78204

CITY, STATE & ZIP: FRISCO, TEXAS 75034

PHONE: 210-938-4075

PHONE: 469-644-1664

E-MAIL: \_\_\_\_\_

E-MAIL: NHOBBS@BGEINC.COM

### NOTARY VERIFICATION [REQUIRED]

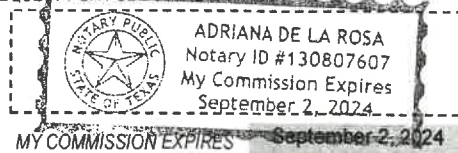
BEFORE ME, THE UNDERSIGNED AUTHORITY, ON THIS DAY PERSONALLY APPEARED Ben Scott [OWNER] THE UNDERSIGNED, WHO STATED THE INFORMATION ON THIS APPLICATION TO BE TRUE AND CERTIFIED THE FOLLOWING:

"I HEREBY CERTIFY THAT I AM THE OWNER FOR THE PURPOSE OF THIS APPLICATION; ALL INFORMATION SUBMITTED HEREIN IS TRUE AND CORRECT; AND THE APPLICATION FEE OF \$ 500.38 TO COVER THE COST OF THIS APPLICATION, HAS BEEN PAID TO THE CITY OF ROCKWALL ON THIS THE 15th DAY OF December, 2023. BY SIGNING THIS APPLICATION, I AGREE THAT THE CITY OF ROCKWALL (I.E. "CITY") IS AUTHORIZED AND PERMITTED TO PROVIDE INFORMATION CONTAINED WITHIN THIS APPLICATION TO THE PUBLIC. THE CITY IS ALSO AUTHORIZED AND PERMITTED TO REPRODUCE ANY COPYRIGHTED INFORMATION SUBMITTED IN CONJUNCTION WITH THIS APPLICATION, IF SUCH REPRODUCTION IS ASSOCIATED OR IN RESPONSE TO A REQUEST FOR PUBLIC INFORMATION."

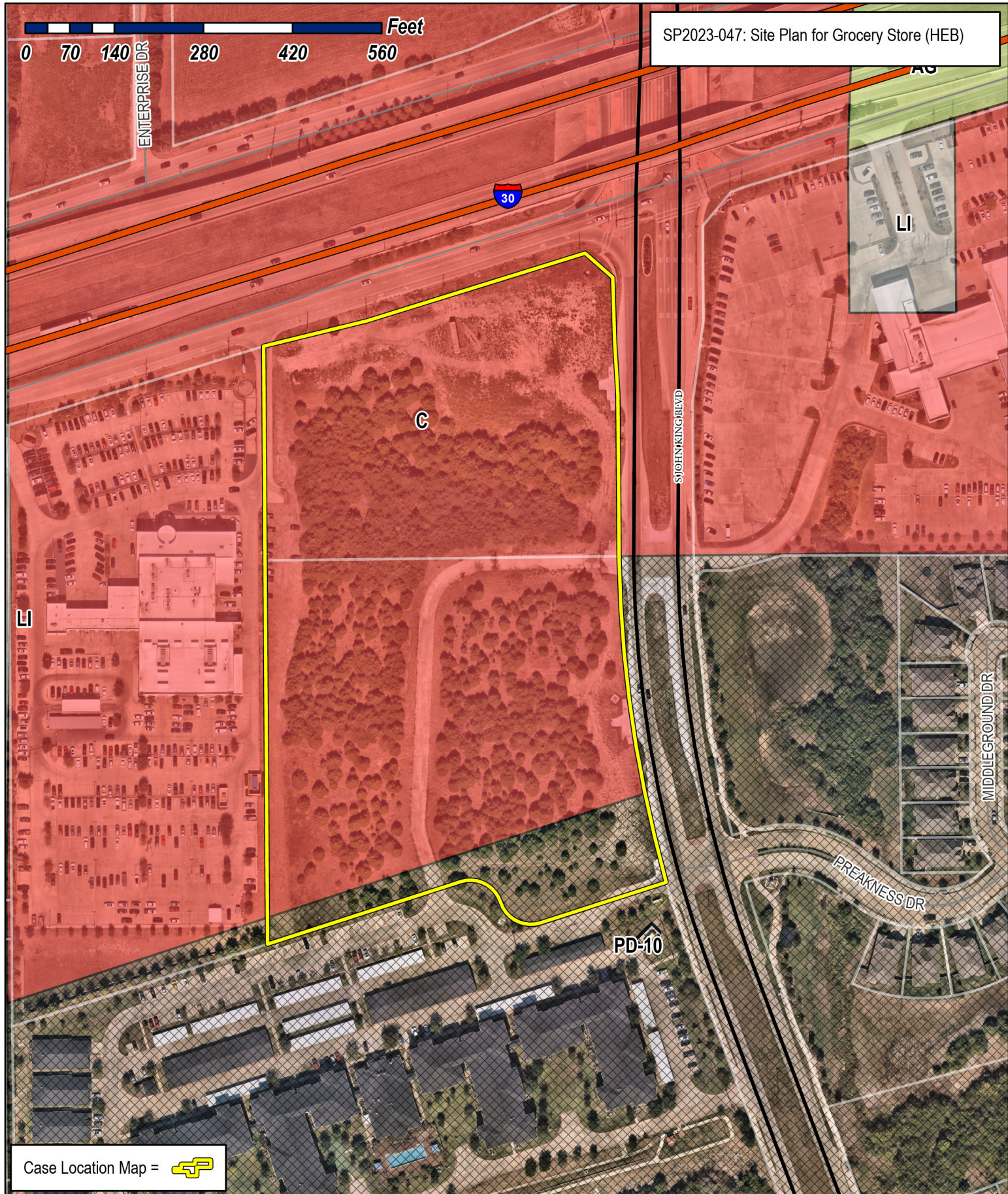
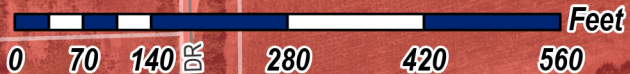
GIVEN UNDER MY HAND AND SEAL OF OFFICE ON THIS THE 5th DAY OF December, 2023.

OWNER'S SIGNATURE: [Signature]

NOTARY PUBLIC IN AND FOR THE STATE OF TEXAS: [Signature]







Case Location Map = 



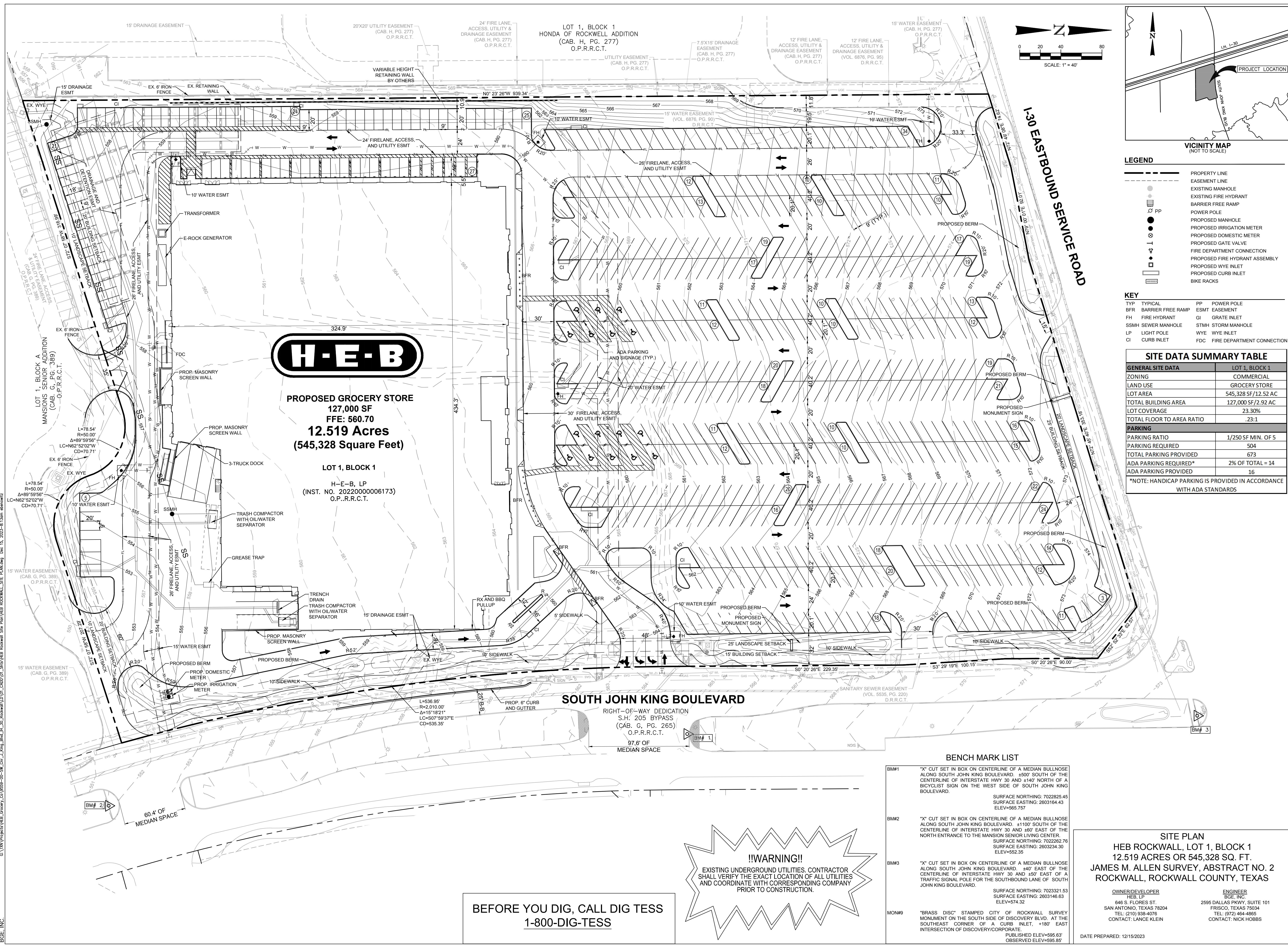
# City of Rockwall

Planning & Zoning Department  
385 S. Goliad Street  
Rockwall, Texas 75087  
(P): (972) 771-7745  
(W): www.rockwall.com

The City of Rockwall GIS maps are continually under development and therefore subject to change without notice. While we endeavor to provide timely and accurate information, we make no guarantees. The City of Rockwall makes no warranty, express or implied, including warranties of merchantability and fitness for a particular purpose. Use of the information is the sole responsibility of the user.







**BGE, Inc.**  
2595 Dallas Parkway, Suite 101  
Frisco, TX 75034  
Tel: 972-464-4800 • www.bgeinc.com  
TBPE Registration No. F-1046  
Copyright 2023

**OWNER/DEVELOPER**



646 S. FLORES ST.  
SAN ANTONIO, TX 78204  
TEL: (210) 938-4076  
CONTACT: LANCE KLEIN

**ENGINEER**

**BGE, INC.**  
2595 DALLAS PKWY.,  
SUITE 101  
FRISCO, TX 75034  
CONTACT: NICK HOBBS  
PHONE: (972) 464-4865

**SITE PLAN**

**HEB ROCKWALL**

LOT 1, BLOCK 1

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

THESE PLANS ARE ISSUED FOR THE PURPOSE OF PRELIMINARY REVIEW AND ARE NOT INTENDED FOR CONSTRUCTION. WHEN ISSUED IN FINAL FORM THEY WILL BE SEALED, SIGNED AND DATED.

RESPONSIBLE ENGINEER:  
BGE, INC.  
TEXAS REGISTERED ENGINEERING FIRM F-1046  
NICHOLAS D. HOBBS, P.E.  
TEXAS REGISTRATION NO. 112949  
DECEMBER 15, 2023

**!CAUTION!**  
Contractor to Verify exact location & Depth of Exist Facilities Prior to any Construction Activities

**CAUTION !!!**  
CONTACT: 1-800-DIG-TESS  
48 HOURS PRIOR TO CONSTRUCTION

REV. NO.	DATE	DESCRIPTION

CHECKED BY: NDH  
DESIGNED BY: EJB  
DATE: DECEMBER 2023  
PROJECT NUMBER: 9559-01

**SHEET NO**

SP-1

**BEFORE YOU DIG, CALL DIG TESS  
1-800-DIG-TESS**

**!!WARNING!!**  
EXISTING UNDERGROUND UTILITIES. CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UTILITIES AND COORDINATE WITH CORRESPONDING COMPANY PRIOR TO CONSTRUCTION.

**SITE PLAN  
HEB ROCKWALL, LOT 1, BLOCK 1  
12.519 ACRES OR 545,328 SQ. FT.  
JAMES M. ALLEN SURVEY, ABSTRACT NO. 2  
ROCKWALL, ROCKWALL COUNTY, TEXAS**

**OWNER/DEVELOPER**  
HEB, LP  
646 S. FLORES ST.  
SAN ANTONIO, TEXAS 78204  
TEL: (210) 938-4076  
CONTACT: LANCE KLEIN

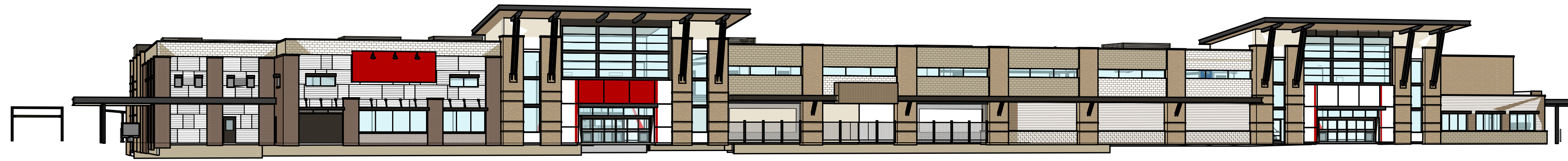
**ENGINEER**  
BGE, INC.  
2595 DALLAS PKWY, SUITE 101  
FRISCO, TEXAS 75034  
TEL: (972) 464-4865  
CONTACT: NICK HOBBS

DATE PREPARED: 12/15/2023

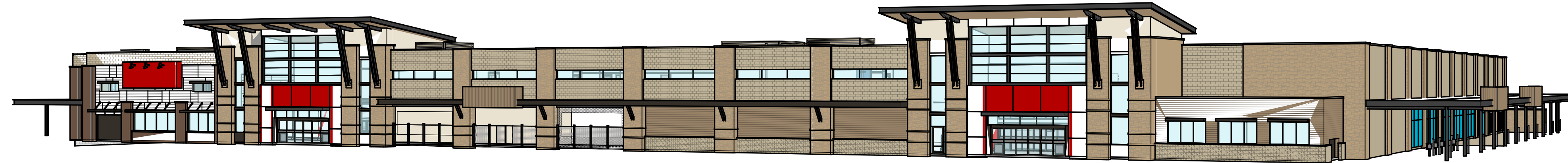




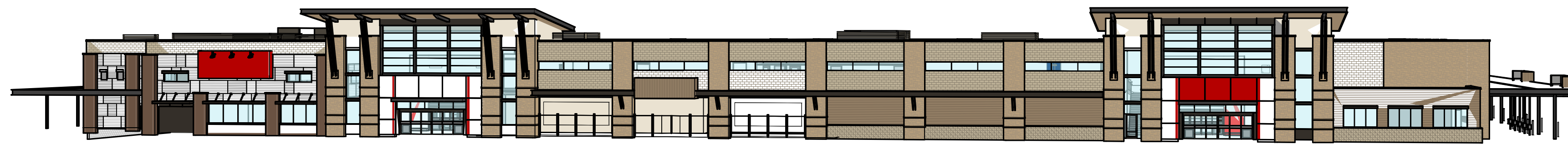




5 PERSPECTIVE VIEW - POINT D



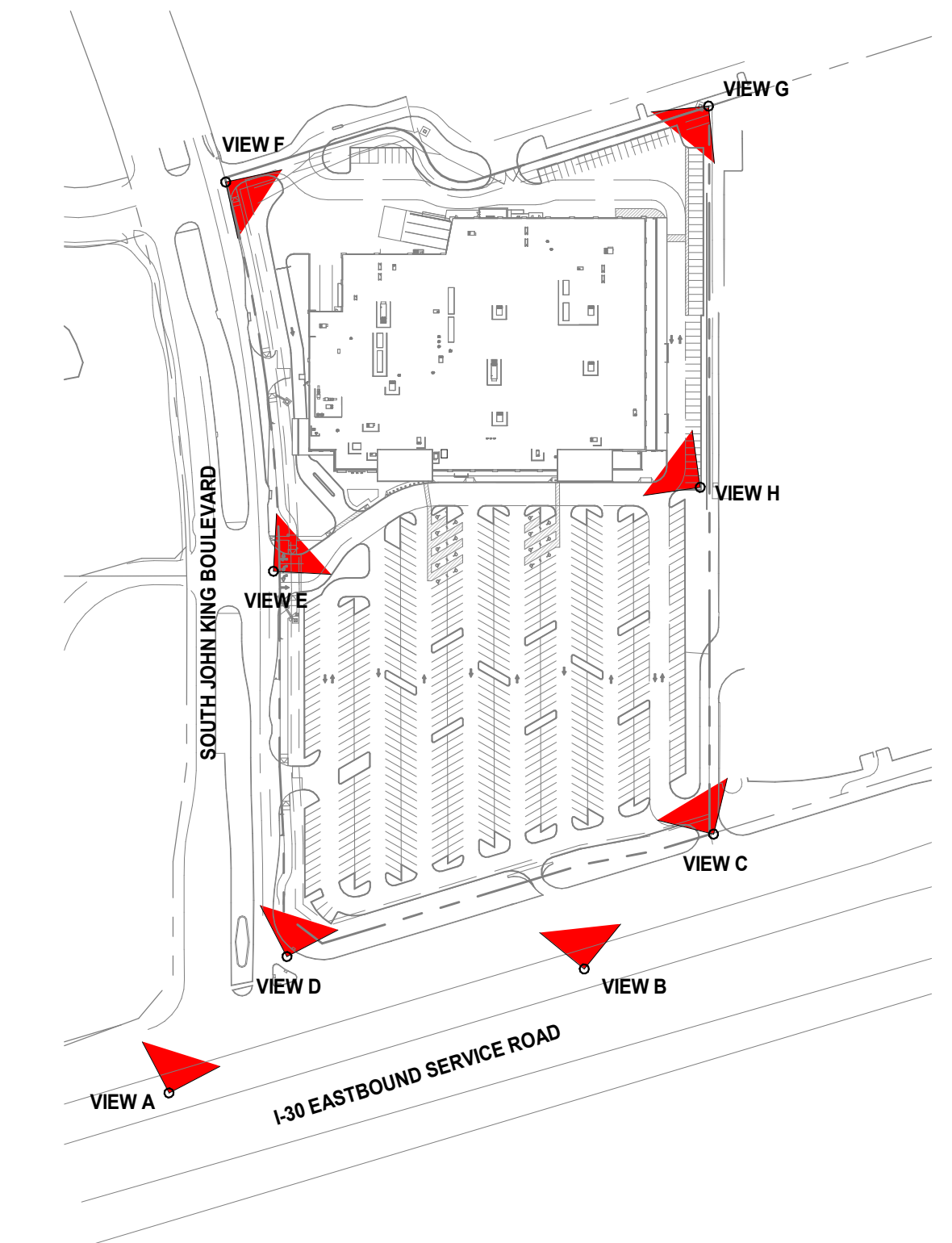
4 PERSPECTIVE VIEW - POINT C



3 PERSPECTIVE VIEW - POINT B



2 PERSPECTIVE VIEW - POINT A



VIEW	STORE LEVEL	GRADE LEVEL	EYE LEVEL
A	560.30'	573'	560.30'
B	560.30'	284'	560.30'
C	560.30'	573'	560.30'
D	560.30'	573'	560.30'
E	560.30'	594'	560.30'
F	560.30'	552'	560.30'
G	560.30'	555'	560.30'
H	560.30'	561'	560.30'

1 ARCHITECTURAL SITE PLAN  
1" = 200'-0"

PROJECT #  
H.E.B. ROCKWALL - STORE  
12.519 ACRES  
LOT 1 | BLOCK 1  
AN ADDITION TO THE CITY OF ROCKWALL  
ROCKWALL COUNTY, TEXAS  
DECEMBER, 2023

GROCERY COMPANY LP OWNER  
646 S. FLORES ST. (210) 938-4076  
SAN ANTONIO, TEXAS 78204

CONTACT: LANCE KLEIN

BGE, INC ENGINEER  
2595 DALLAS PKWY, SUITE 101 (972) 464-4865  
FRISCO, TEXAS 75034

CONTACT: NICK HOBBS

**CITY OF ROCKWALL GENERAL NOTES**

1. THIS FACADE PLAN IS FOR CONCEPTUAL PURPOSES ONLY. ALL BUILDING PLANS REQUIRE REVIEW AND APPROVAL FROM THE BUILDING INSPECTIONS DIVISION.
2. ALL MECHANICAL EQUIPMENT SHALL BE SCREENED FROM PUBLIC VIEW. ROOF TOP MOUNTED EQUIPMENT SHALL BE SCREENED BY A PARAPET WALL OR SCREENING WALL. SCREENING WALLS SHALL BE PAINTED TO MATCH THE BUILDING.
3. WHEN PERMITTED, EXPOSED UTILITIES BOXES AND CONDUITS SHALL BE PAINTED TO MATCH THE BUILDING.
4. ALL SIGNAGE AREAS AND LOCATIONS ARE SUBJECT TO APPROVAL BY THE BUILDING INSPECTIONS DIVISION.
5. WINDOWS SHALL HAVE A MINIMUM EXTERIOR VISIBLE REFLECTIVITY OF TEN (10) PERCENT.
6. ANY DEVIATION FROM THE APPROVED FACADE PLAN WILL REQUIRE RE-APPROVAL BY THE TOWN OF PROSPER.

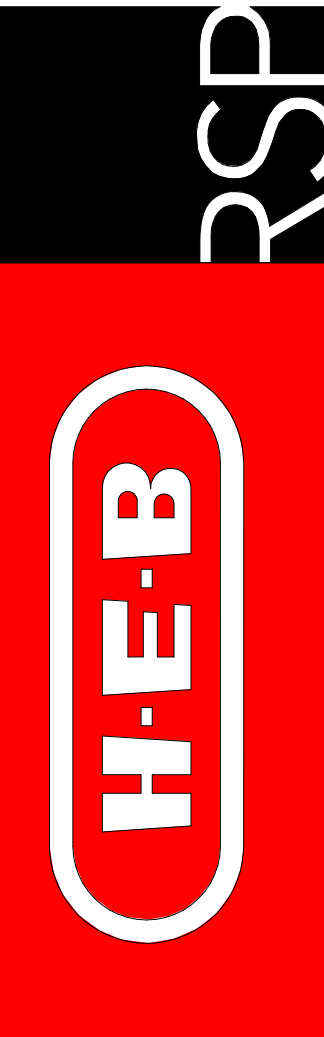
**CITY APPROVAL**

PLEASE BE ADVISED, THIS DOCUMENT MAY CONTAIN INFORMATION THAT IS UNCLASSIFIED, CONFIDENTIAL, OR PROPRIETARY. IT IS THE POLICY OF THIS FIRM TO PROTECT SUCH INFORMATION. ACCEPTANCE OF THIS DOCUMENT SHALL BE DEEMED AS ACCEPTANCE OF THE INFORMATION CONTAINED HEREIN SHALL BE IN THE MANNER, NO PART OF THIS DOCUMENT SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE EXPRESS WRITTEN PERMISSION OF H.E.B. GROCERY AND DISTRIBUTION TO NON-AFFILIATED ENTITIES IS STRICTLY PROHIBITED. FOR A COMPLETE CONFIDENTIALITY AGREEMENT.

Revision	Description	Date

THESE DOCUMENTS ARE FOR INFORMATION ONLY AND ARE NOT INTENDED FOR BIDDING, PERMITTING OR CONSTRUCTION PURPOSES.  
ARCHITECT:  
RSP ARCHITECTS, LTD.

RSP Architects  
600 W. 4th Street, Suite 100  
Fort Worth, TX 76102  
817.200.0340 main  
817.277.8658 fax  
www.rsparch.com

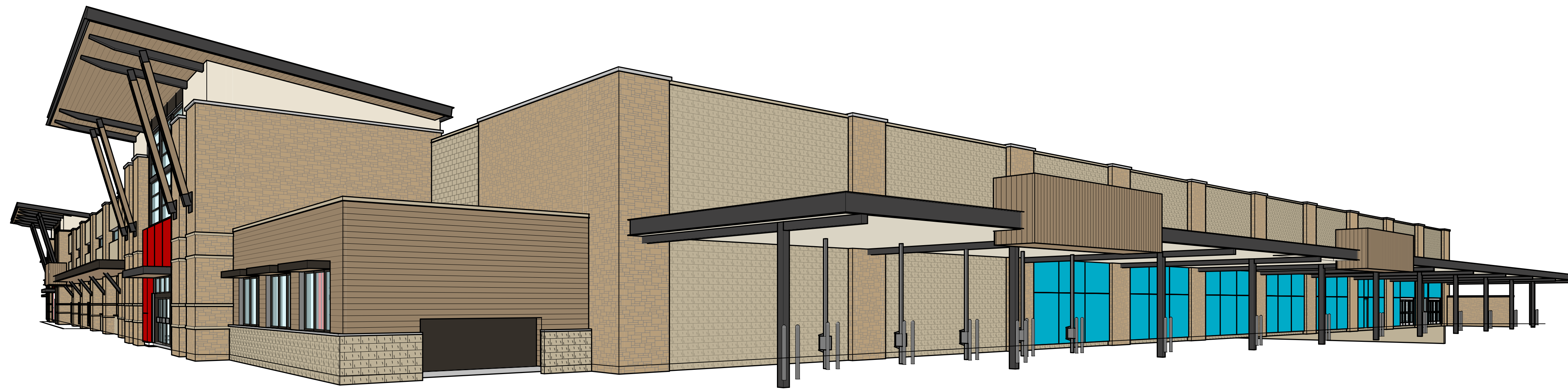


SITE LINE STUDY

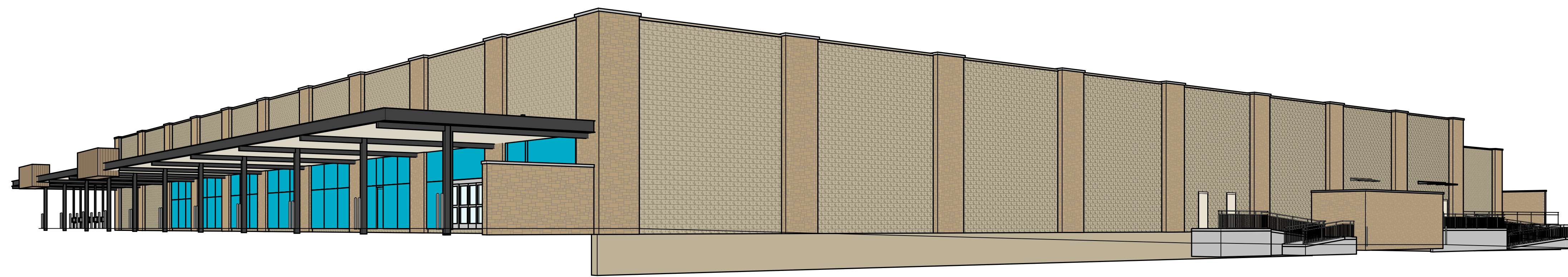
H-E-B ROCKWALL | CORP # 810  
XXX-XXX-XXX | Rockwall, Texas  
XXXXX

SCALE: AS INDICATED  
CONSUL. PROJ. NO.: 3442.01.00  
DATE: 12.11.2023  
SHEET NO. 02

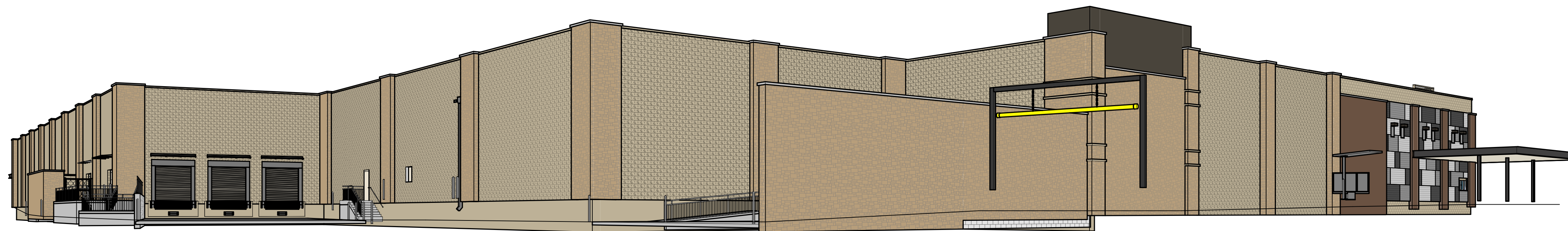




5 PERSPECTIVE VIEW - POINT H



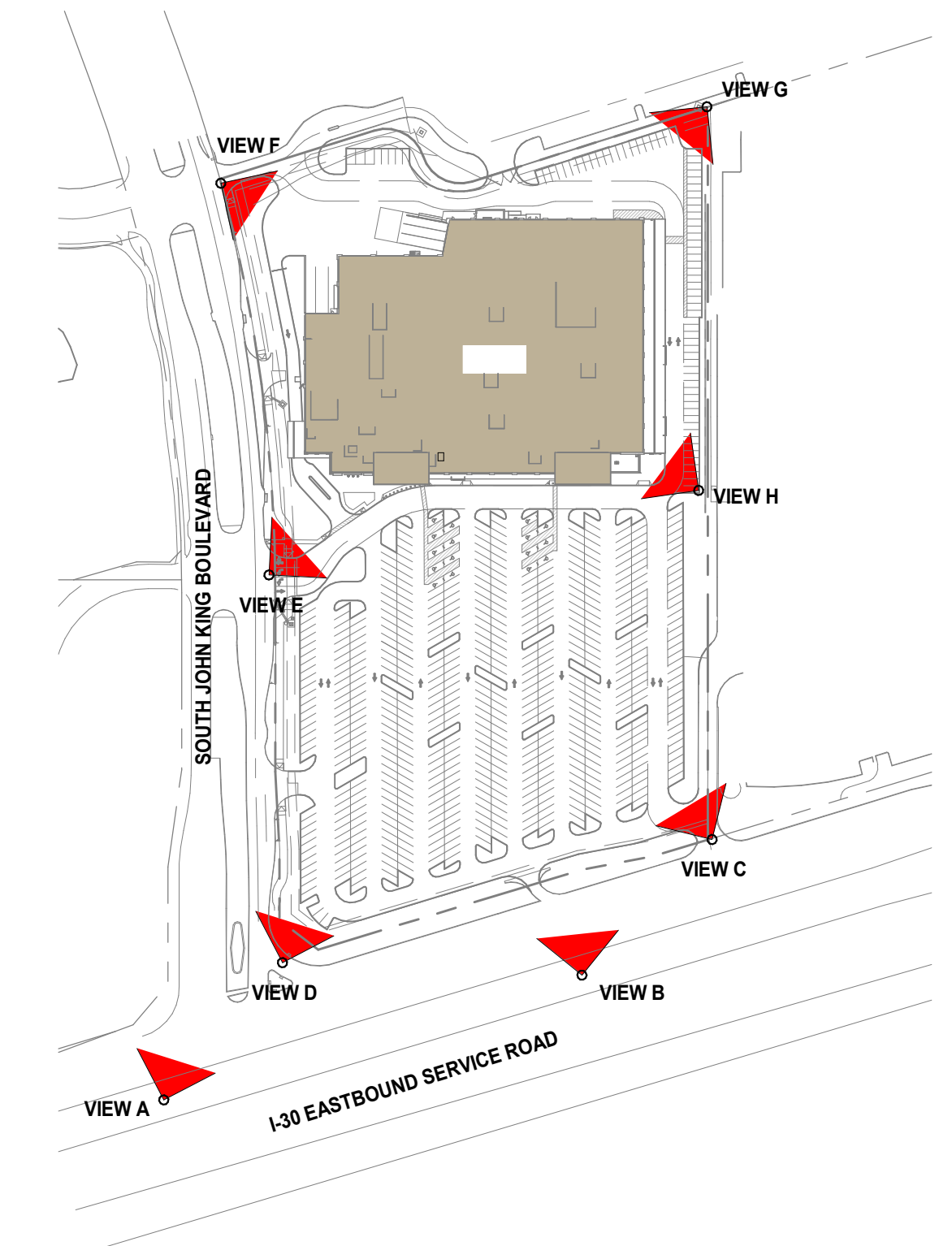
4 PERSPECTIVE VIEW - POINT G



3 PERSPECTIVE VIEW - POINT F



2 PERSPECTIVE VIEW - POINT E



VIEW	STORE LEVEL	GRADE LEVEL	EYE LEVEL
A	560.30'	573'	560.30'
B	560.30'	284'	560.30'
C	560.30'	573'	560.30'
D	560.30'	573'	560.30'
E	560.30'	594'	560.30'
F	560.30'	552'	560.30'
G	560.30'	555'	560.30'
H	560.30'	561'	560.30'

1 ARCHITECTURAL SITE PLAN  
1" = 200'-0"

PROJECT #  
H.E.B. ROCKWALL - STORE  
12.519 ACRES  
LOT 1 | BLOCK 1  
AN ADDITION TO THE CITY OF ROCKWALL  
ROCKWALL COUNTY, TEXAS  
DECEMBER, 2023

GROCERY COMPANY LP OWNER  
646 S. FLORES ST. (210) 938-4076  
SAN ANTONIO, TEXAS 78204  
CONTACT: LANCE KLEIN

BGE, INC ENGINEER  
2595 DALLAS PKWY, SUITE 101 (972) 464-4865  
FRISCO, TEXAS 75034  
CONTACT: NICK HOBBS

- CITY OF ROCKWALL GENERAL NOTES**
1. THIS FACADE PLAN IS FOR CONCEPTUAL PURPOSES ONLY. ALL BUILDING PLANS REQUIRE REVIEW AND APPROVAL FROM THE BUILDING INSPECTIONS DIVISION.
  2. ALL MECHANICAL EQUIPMENT SHALL BE SCREENED FROM PUBLIC VIEW. ROOF TOP MOUNTED EQUIPMENT SHALL BE SCREENED BY A PARAPET WALL OR SCREENING WALL. SCREENING WALLS SHALL BE PAINTED TO MATCH THE BUILDING.
  3. WHEN PERMITTED, EXPOSED UTILITIES BOXES AND CONDUITS SHALL BE PAINTED TO MATCH THE BUILDING.
  4. ALL SIGNAGE AREAS AND LOCATIONS ARE SUBJECT TO APPROVAL BY THE BUILDING INSPECTIONS DIVISION.
  5. WINDOWS SHALL HAVE A MINIMUM EXTERIOR VISIBLE REFLECTIVITY OF TEN (10) PERCENT.
  6. ANY DEVIATION FROM THE APPROVED FACADE PLAN WILL REQUIRE RE-APPROVAL BY THE TOWN OF PROSPER.

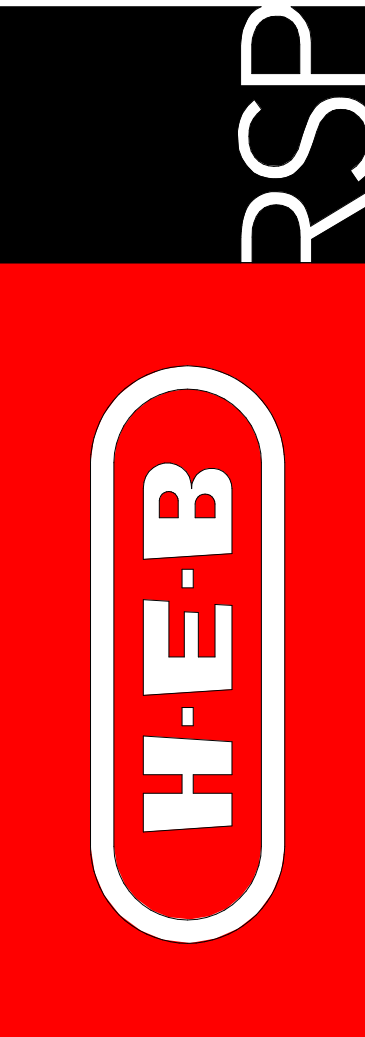
**CITY APPROVAL**

PLEASE BE ADVISED, THIS DOCUMENT MAY CONTAIN INFORMATION THAT IS UNLAWFUL TO DISCLOSE. THESE DISCLOSURES MUST BE TREATED AS CONFIDENTIAL DOCUMENTS. ACCEPTANCE OF THIS DOCUMENT SHALL BE DEEMED AS ACCEPTANCE OF THE INFORMATION CONTAINED HEREIN. NO PART OF THIS DOCUMENT SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE EXPRESS WRITTEN PERMISSION OF H.E.B. GROCERY AND DISTRIBUTION TO NON-AFFILIATED ENTITIES IS STRICTLY PROHIBITED. FOR A COMPLETE CONFIDENTIALITY AGREEMENT, CONTACT THE ARCHITECT.

Revision	Description	Date

THESE DOCUMENTS ARE FOR INFORMATION ONLY AND ARE NOT INTENDED FOR BIDDING, PERMITTING OR CONSTRUCTION PURPOSES.  
ARCHITECT:  
RSP ARCHITECTS, LTD.

**RSP Architects**  
600 W. 4th Street, Suite 100  
Fort Worth, TX 76102  
817.200.0340 main  
817.277.8658 fax  
www.rsparchitect.com



SITE LINE STUDY

H.E.B. ROCKWALL | CORP # 810  
XXX-XXX-XXX | Rockwall, Texas  
XXXX

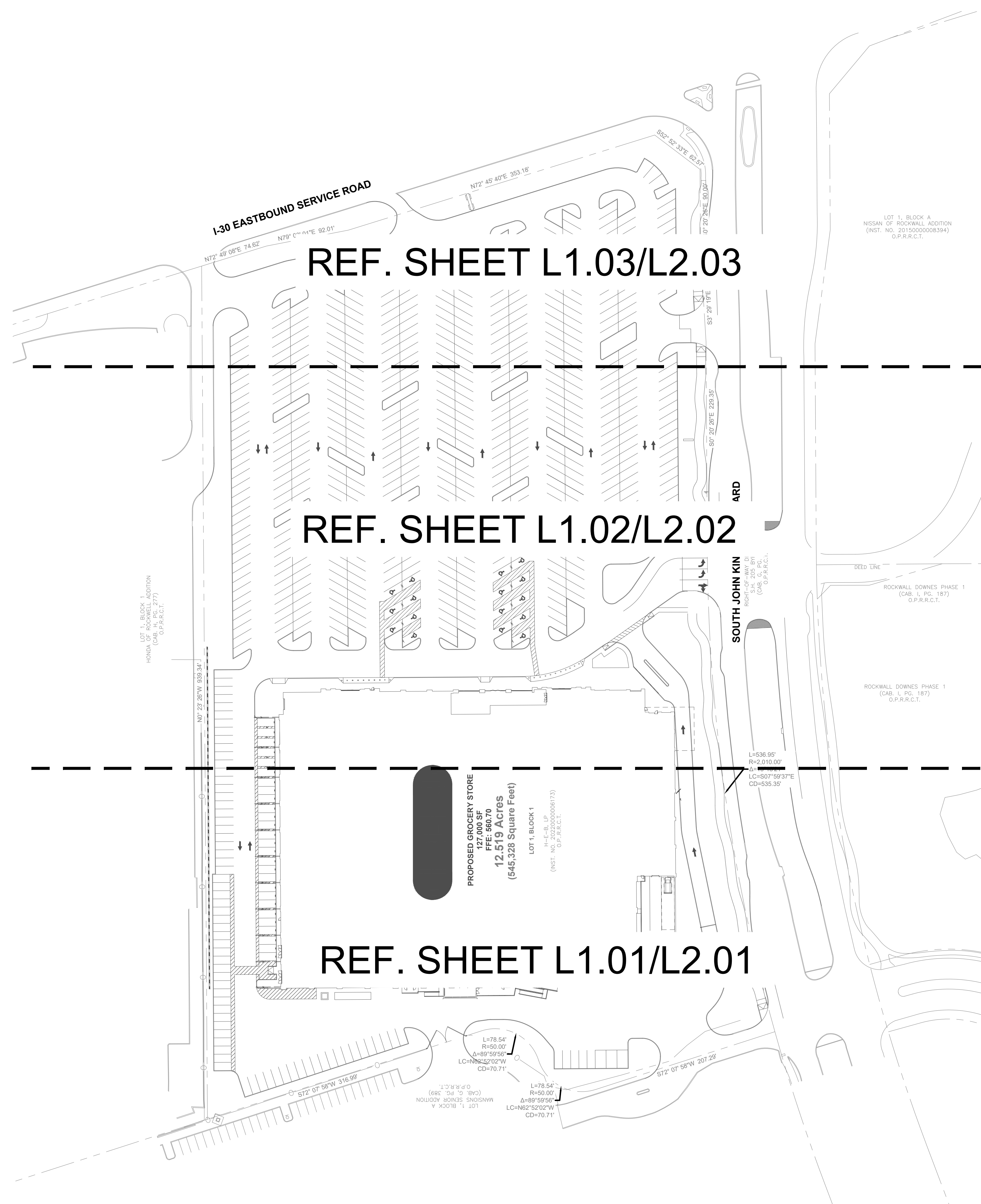
SCALE: AS INDICATED  
CONSUL. PROJ. NO.: 3443.01.01  
DATE: 12.11.2023  
SHEET NO. 03







BGE, INC. THE DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGN PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY BGE, INC. SHALL BE WITHOUT LIABILITY TO BGE, INC.

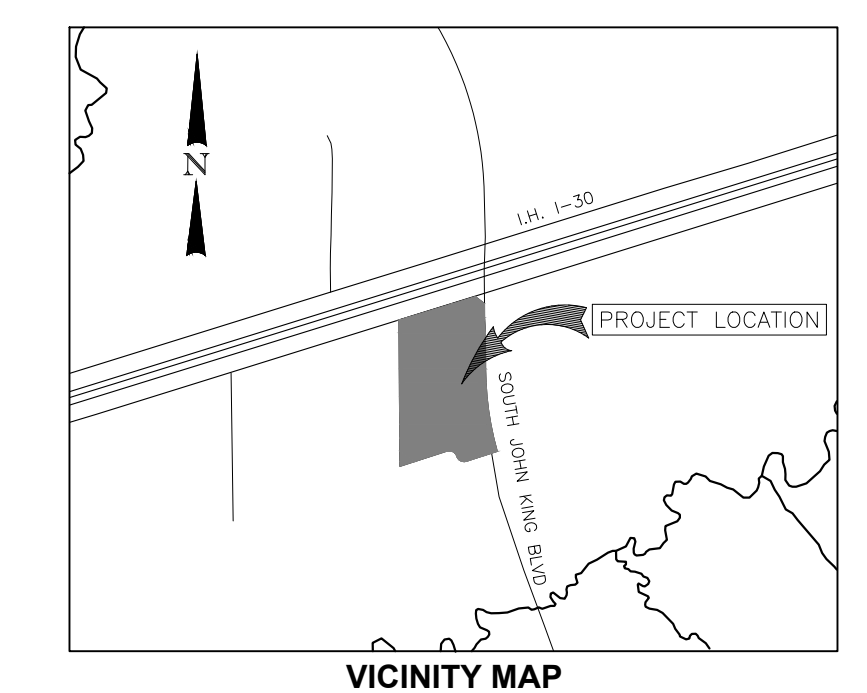


REF. SHEET L1.03/L2.03

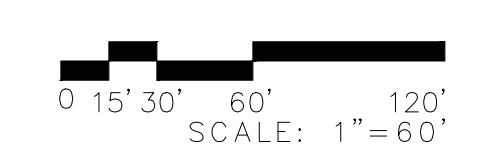
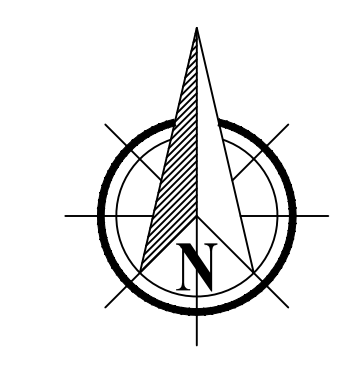
REF. SHEET L1.02/L2.02

REF. SHEET L1.01/L2.01

**PROPOSED GROCERY STORE**  
 127,000 SF  
 FFE: 560.70  
**12.519 Acres**  
 (545,328 Square Feet)  
 LOT 1, BLOCK 1  
 (INST. NO. 2015000008394)  
 O.P.R.R.C.T.



VICINITY MAP  
(NOT TO SCALE)



**BGE, Inc.**  
 2595 Dallas Parkway, Suite 101  
 Frisco, TX 75034  
 Tel: 972-464-4800 • www.bgeinc.com  
 TBPE Registration No. F-1046  
 Copyright 2023

**OWNER/DEVELOPER**



646 S. FLORES ST.  
 SAN ANTONIO, TX 78204  
 TEL: (210) 938-4076  
 CONTACT: LANCE KLEIN

**LANDSCAPE ARCHITECT**

**BGE, INC.**  
 2595 DALLAS PKWY.,  
 SUITE 101  
 FRISCO, TX 75034  
 CONTACT: MICHAEL  
 STOTTLER, PLA  
 PHONE: (972) 372-9381

OVERALL PLAN

H-E-B ROCKWALL  
 LOT 1, BLOCK 1

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

THESE PLANS ARE ISSUED FOR THE PURPOSE OF PRELIMINARY REVIEW AND ARE NOT INTENDED FOR CONSTRUCTION. WHEN ISSUED IN FINAL FORM THEY WILL BE SEALED, SIGNED AND DATED.

RESPONSIBLE LANDSCAPE ARCHITECT:  
 MICHAEL STOTTLER, PLA  
 TEXAS REGISTRATION NO. 3743  
 BGE, INC.  
 TEXAS REGISTERED ENGINEERING FIRM F-1046

December 15, 2023

**!CAUTION !**

Contractor to Verify exact location & Depth of Exist Facilities Prior to any Construction Activities

**CAUTION !!!**

CONTACT: 1-800-DIG-TESS  
 48 HOURS PRIOR TO CONSTRUCTION

REVISIONS		
REV. NO.	DATE	DESCRIPTION

CHECKED BY: MLS  
 DESIGNED BY: ACS  
 DATE: December 13, 2023  
 PROJECT NUMBER: 9559-01

SHEET NO  
**L0.03**  
 OVERALL PLAN























# CITY OF ROCKWALL- CODE REQUIREMENTS

LANDSCAPE AREA	REQUIRED	PROVIDED
20% OF SITE 545,328 SF X 20% = 109,066 SF IMPERVIOUS AREA= 469,816 SF	109,066 SF 20%	76,310 SF 14%
SITE TREES	REQUIRED	PROVIDED
12 TREES PER ACRE 12.519 AC X 12 = 150.228 TREES	150 TREES	201 TREES
IH-30 OVERLAY DISTRICT	REQUIRED	PROVIDED
LANDSCAPE BUFFER 20' DEPTH	YES	YES
MIN. 30" HT SHRUBS	YES	YES
CANOPY TREES 2 TREES PER 100 LF (519.8 LF / 100) x 2 = 10 TREES	10 TREES	10 TREES
ORNAMENTAL TREES 4 TREE PER 100 LF (519.8 LF / 100) x 4 = 20 TREES	20 TREES	20 TREES
SH-205 BY-PASS OVERLAY DISTRICT	REQUIRED	PROVIDED
LANDSCAPE BUFFER 25' DEPTH	YES	YES
MIN. 30" HT SHRUBS	YES	YES
CANOPY TREES 2 TREE PER 100 LF (956.44 LF / 100) x 2 = 20 TREES	20 TREES	20 TREES
ORNAMENTAL TREES 4 TREE PER 100 LF (956.44 LF / 100) x 4 = 40 TREES	40 TREES	40 TREES
CEDAR TREES 1 TREE PER 100 LF 956.44 LF / 100 = 10 TREES	10 TREES	10 TREES
SCREENING FROM RESIDENTIAL	REQUIRED	PROVIDED
ORNAMENTAL IRON FENCE	YES	EXISTING
SCREENING SHRUBS	YES	YES
HEADLIGHT SCREENING	REQUIRED	PROVIDED
MIN. 2' HT BERM	YES	YES
EVERGREEN SHRUBS	YES	YES
PARKING REQUIREMENTS	REQUIRED	PROVIDED
MIN. 5 % INTERIOR LANDSCAPING TOTAL PARKING=136,099 SF	6,805 SF	8,641 SF
PARKING TREES 1 TREE PER 10 SPACES 673 SPACES / 10 = 67 TREES	67 TREES	67 TREES
TREE MITIGATION	REQUIRED	PROVIDED
TREE MITIGATION ONE 4" TREE PER 8' HT CEDAR REMOVED	59 TREES	59 TREES PROVIDED BY CODE REQUIRED TREES

## PLANT SCHEDULE

CANOPY TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	COND	HT	SPR	REMARKS
	QM	17	Quercus macrocarpa	Burr Oak	3" cal	14' ht	6' spr	B&B	Full, Straight, Single Leader
	QS	32	Quercus shumardii	Shumard Red Oak	3" cal	12' ht	5' spr	B&B	Full, Straight, Single Leader
	QV	8	Quercus virginiana	Southern Live Oak	3" cal	12' ht	6' spr	B&B	Full, Straight, Single Leader
	UC	33	Ulmus crassifolia	Cedar Elm	3" cal	14' ht	5' spr	B&B	Full, Straight, Single Leader
	UP	17	Ulmus parvifolia 'Allee'	Allee Lacebark Elm	3" cal	14' ht	6' spr	B&B	Full, Straight, Single Leader
ORNAMENTAL TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	COND	HT	SPR	REMARKS
	CC	23	Cercis canadensis	Eastern Redbud	2" cal	8' ht	4' spr	B&B	Full, Multi-Trunk
	CL	37	Chilopsis linearis	Desert Willow	2" cal	6' ht	4' spr	30 gal	Full, Multi-Trunk
SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	COND	HT	SPR	REMARKS
	ABG	29	Abelia x grandiflora	Glossy Abelia	18" ht	18" spr	36" oc	3 gal	Full, Matching
	INR	125	Ilex x 'Nellie R. Stevens'	Nellie R. Stevens Holly	30" ht	24" spr	48" oc	5 gal	Full, Matching
	LFS	179	Leucophyllum frutescens	Texas Sage	36" ht	24" spr	48" oc	5 gal	Full, Matching
	MAD	64	Malvaviscus drummondii	Turk's Cap	24" ht	18" spr	24" oc	3 gal	Full, Matching
	MYP	147	Myrica pusilla	Dwarf Wax Myrtle	24" ht	18" spr	36" oc	3 gal	Full, Matching
GRASSES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	COND	HT	SPR	REMARKS
	NAS	276	Nassella tenuissima	Mexican Feather Grass	18" ht	---	24" oc	3 gal	Full, Matching
GROUND COVER	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	COND	HT	SPR	REMARKS
	CAR	275	Carex divulsa	Berkeley Sedge	12" ht	12" spr	18" oc	1 gal	Full, 1 gallon min.
	LNG	160	Lantana x 'New Gold'	New Gold Lantana	12" ht	12" spr	18" oc	1 gal	Full, 1 gallon min.
SOD	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	COND	HT	SPR	REMARKS
	SOD	65,518 sf	Cynodon dactylon	Common Bermuda Grass	---	---	---	---	Solid Sod, tight sand filled joints, 100% weed, disease and pest free
GROUND COVER	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	COND	HT	SPR	REMARKS
	STEEL EDGE	TBD		Steel Edging					3/8" x 6", black
	MULCH	TBD		Shredded Hardwood Mulch					Min. 3" depth, trees in sod to receive 4' dia ring
	RIVER ROCK	TBD		River Rock					2"-4" size, natural color

**IRRIGATION NOTE:**  
ALL PLANT MATERIAL TO BE IRRIGATED IN COMPLIANCE TO CITY OF ROCKWALL, UNIFIED DEVELOPMENT CODE ARTICLE 8.05.04



**BGE, Inc.**  
2595 Dallas Parkway, Suite 101  
Frisco, TX 75034  
Tel: 972-464-4800 • www.bgeinc.com  
TBPE Registration No. F-1046  
Copyright 2023

**OWNER/DEVELOPER**



646 S. FLORES ST.  
SAN ANTONIO, TX 78204  
TEL: (210) 938-4076  
CONTACT: LANCE KLEIN

**LANDSCAPE ARCHITECT**

**BGE, INC.**  
2595 DALLAS PKWY.,  
SUITE 101  
FRISCO, TX 75034  
CONTACT: MICHAEL  
STOTTLER, PLA  
PHONE: (972) 372-9381

**PLANTING SCHEDULE & TABULATIONS**

**H-E-B ROCKWALL**

LOT 1, BLOCK 1  
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

THESE PLANS ARE ISSUED FOR THE PURPOSE OF PRELIMINARY REVIEW AND ARE NOT INTENDED FOR CONSTRUCTION. WHEN ISSUED IN FINAL FORM THEY WILL BE SEALED, SIGNED AND DATED.  
RESPONSIBLE LANDSCAPE ARCHITECT:  
MICHAEL STOTTLER, PLA  
TEXAS REGISTRATION NO. 3743  
BGE, INC.  
TEXAS REGISTERED ENGINEERING FIRM F-1046

**!CAUTION !!**

Contractor to Verify exact location & Depth of Exist Facilities Prior to any Construction Activities

**CAUTION !!!**

CONTACT: 1-800-DIG-TESS  
48 HOURS PRIOR TO CONSTRUCTION

REVISIONS		
REV. NO.	DATE	DESCRIPTION

CHECKED BY: MLS  
DESIGNED BY: ACS  
DATE: December 13, 2023  
PROJECT NUMBER: 9559-01

**SHEET NO**

**L2.00**

**PLANTING SCHEDULE & TABULATIONS**



**GENERAL NOTES:**

**GENERAL NOTES:**

- VERIFY SITE INFORMATION, INCLUDING PROPERTY LINES, EASEMENTS, BUILDINGS, ROADWAY CURBS AND GUTTERS, UTILITIES AND OTHER INFORMATION AFFECTING THE SCOPE OF WORK INCLUDED ON THESE DRAWINGS. MORE SPECIFIC UTILITY INFORMATION IS INDICATED ON THE OTHER CONSULTANTS DRAWINGS, THE CIVIL DRAWINGS, AND SITE RECORD DRAWINGS AVAILABLE FROM THE OWNER. THE CONTRACTOR SHALL CONTACT THE OWNER AND THE LANDSCAPE ARCHITECT FOR DIRECTION ON HOW TO PROCEED IF ACTUAL SITE CONDITIONS VARY FROM WHAT IS SHOWN ON THE CIVIL ENGINEER'S OR LANDSCAPE ARCHITECT'S PLANS.
- THE CONTRACTOR SHALL NOTIFY LOCAL AUTHORITIES AND THE GENERAL CONTRACTOR FOR LOCATION OF EXISTING UNDERGROUND UTILITIES. EXCAVATE AS NECESSARY TO CONFIRM LOCATIONS PRIOR TO EXCAVATION.
- EXCAVATION IN THE VICINITY OF UTILITIES SHALL BE UNDERTAKEN WITH CARE. THE CONTRACTOR BEARS FULL RESPONSIBILITY FOR THIS WORK. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL SITE UTILITIES PRIOR TO BEGINNING EXCAVATION. ANY DAMAGE TO UTILITIES THAT ARE TO REMAIN CAUSED BY ANY PERSON, VEHICLE, EQUIPMENT, OR TOOL RELATED TO THE EXECUTION OF THE CONTRACT SHALL BE REPAIRED IMMEDIATELY AT NO EXPENSE TO THE OWNER.
- CONTRACTOR TO VERIFY CONSTRUCTION COMPLIANCE WITH AMERICANS WITH DISABILITIES ACT (ADA) OF 1990, AS AMENDED, THE ADA ACCESSIBILITY GUIDELINES (ADAAG) OF 2004, AS AMENDED, AND THE TEXAS ACCESSIBILITY STANDARDS, AS AMENDED. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.
- CONTRACTOR TO PROVIDE NECESSARY EROSION CONTROL MEASURES AS NEEDED.
- ALL CONSTRUCTION WILL CONFORM TO THESE PLANS AND SPECIFICATIONS. ALL CONSTRUCTION WILL ALSO CONFORM TO ALL RELEVANT CITY STANDARDS AND SPECIFICATIONS.

**DEMOLITION NOTES:**

- CONTRACTOR TO VERIFY LOCATIONS OF EXISTING UTILITIES AND UNLESS NOTED OTHERWISE, MAINTAIN THEM IN OPERATION DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES.
- REFERENCE CIVIL DRAWINGS FOR LIMITS OF REQUIRED DEMOLITION.
- CONTRACTOR SHALL TAKE CARE TO MINIMIZE DISTURBANCE TO EXISTING TREE TRUNKS AND ROOT SYSTEMS. ALL DEMOLITION ADJACENT TO EXISTING TREES SHALL BE COMPLETED USING HAND TOOLS. NO LARGE EQUIPMENT OR ANY EQUIPMENT WITH TRACKS SHALL BE ALLOWED TO WORK UNDER THE DRIP LINE OF ANY EXISTING TREES TO REMAIN. THERE SHALL BE NO STORAGE OF MATERIAL OR PARKING WITHIN THE DRIP LINE OF EXISTING TREES TO REMAIN.
- SITE BASE INFORMATION (BOUNDARIES, UTILITIES, TOPOGRAPHY & STRUCTURES) ARE SHOWN AS PROVIDED BY SURVEYOR. CONTRACTOR SHALL VERIFY GRADES, UTILITIES AND SITE CONDITIONS PRIOR TO BEGINNING CONSTRUCTION. BGE, INC ASSUMES NO LIABILITY FOR THE ACCURACY OF THIS SURVEY INFORMATION.
- DURING DEMOLITION THE CONTRACTOR SHALL EXERCISE CAUTION NOT TO DAMAGE THE EXISTING FEATURES THAT ARE TO REMAIN INSIDE AND OUTSIDE OF THE PROJECT CONSTRUCTION AREA. DAMAGE RESULTING FROM CONTRACTOR'S WORK SHALL BE REPAIRED AND RESTORED TO THE COMPLETE SATISFACTION OF THE OWNER AT THE EXPENSE OF THE CONTRACTOR. UTILITIES AND THEIR CONTINUATION THROUGH DEMOLISHED AREAS ARE TO REMAIN IN PLACE. PROTECT AS REQUIRED. DEMOLISH UTILITIES ONLY IF SHOWN ON THESE OR ARCHITECT/ENGINEERS DRAWINGS.
- CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL AREAS TO BE DEMOLISHED AS A PART OF THIS CONTRACT. CONDITIONS VARYING FROM THESE PLANS & SPECIFICATIONS MUST BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE LANDSCAPE ARCHITECT. CLEARLY MARK ALL ITEMS FOR DEMOLITION FOR LANDSCAPE ARCHITECT'S APPROVAL PRIOR TO BEGINNING DEMOLITION WORK.
- CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF ALL DESIGNATED TREES, SHRUBS & GROUND COVER PRIOR TO THE START OF NEW CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR CAPPING & ABANDONING ALL IRRIGATION LINES IN THE DEMOLITION AREA.

**PLANTING NOTES:**

- CONTRACTOR SHALL STAKE OUT ALL INFORMAL TREE LOCATIONS IN FIELD USING COLORED FLAGS FOR EACH DIFFERENT TREE SPECIES FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO EXCAVATION. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO ADJUST PLANTS TO EXACT LOCATION IN FIELD.
- SHRUB, GROUND COVER & SEASONAL COLOR BED LAYOUTS SHALL BE STAKED FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO EXCAVATION.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING LOCATIONS OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ADVISE THE LANDSCAPE ARCHITECT OF ANY CONDITION FOUND ON THE SITE WHICH PROHIBITS INSTALLATION AS SHOWN ON THESE DRAWINGS.
- ALL SHRUB & GROUND COVER BEDS SHALL HAVE A MINIMUM THREE (3") INCH LAYER OF HARDWOOD MULCH. CONTRACTOR TO SUPPLY OWNER WITH SAMPLE FOR APPROVAL. CONTRACTOR TO SUPPLY A BID ALTERNATE FOR ROCK MULCH FOR ALL BEDS.
- ANNUAL BEDS TO RECEIVE MINIMUM 3" HARDWOOD MULCH. CONTRACTOR TO SUPPLY OWNER WITH SAMPLE FOR APPROVAL.
- TREES SHALL BE PLANTED AS LEAST FOUR (4) FEET FROM ANY UTILITY LINE, CURB, SIDEWALK OR FIRE CONNECTION AND OUTSIDE ALL UTILITY EASEMENTS.
- TREES OVERHANGING SIDEWALKS AND PARKING OR PEDESTRIAN AREAS SHALL HAVE A MINIMUM CLEAR TRUNK BRANCHING HEIGHT OF SEVEN (7) FEET.
- TREES OVERHANGING VISIBILITY EASEMENTS OR RIGHT-OF WAYS SHALL HAVE A MINIMUM CLEAR TRUNK HEIGHT OF NINE (9) FEET.
- TREES OVERHANGING PUBLIC STREET PAVEMENT WILL HAVE A MINIMUM CLEAR TRUNK OF FOURTEEN (14) FEET.
- ALL PLANT MATERIAL SHALL BE MAINTAINED IN A HEALTHY AND GROWING CONDITION, AND MUST BE REPLACED WITH PLANT MATERIAL OF SIMILAR VARIETY AND SIZE IF DAMAGED, DESTROYED, OR REMOVED.
- LANDSCAPED AREAS SHALL BE KEPT FREE OF TRASH, LITTER, AND WEEDS AT ALL TIMES DURING CONSTRUCTION.
- LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR FINE GRADING, REMOVAL OF MISCELLANEOUS DEBRIS AND ANY ADDITIONAL FILL REQUIRED TO CREATE A SMOOTH FINISHED GRADE PRIOR TO PLANTING IN ALL AREAS.
- FINAL GRADING SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT IN THE FIELD PRIOR TO PLANTING.
- PLANT SPACING IS AS INDICATED ON PLANT SCHEDULE UNLESS OTHERWISE NOTED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE FULL COVERAGE IN ALL PLANTING AREAS AS SPECIFIED IN THE PLANT SCHEDULE REMARKS.
- CONTRACTOR SHALL PROVIDE THE PROJECT AGRONOMIST SOIL SAMPLES. A MINIMUM OF TWO SAMPLES FROM EACH DIFFERENT SOIL AREA AND FROM EACH IMPORT SOIL SOURCE IS REQUIRED. VERIFY APPROPRIATE QUANTITY OF SAMPLES WITH THE LANDSCAPE ARCHITECT AND AGRONOMIST. SAMPLES SHALL THEN BE TESTED AND ANALYZED FOR AGRICULTURAL SUITABILITY AND FERTILITY BY AN ACCREDITED SOIL TESTING LABORATORY. ANALYSIS SHALL INCLUDE REVIEW AND COORDINATION WITH SPECIFICATIONS AND RECOMMENDATIONS FOR SOIL PREPARATION AND BACK FILL MIX. SUBMIT SOILS ANALYSES TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO SOIL PREPARATION. THIS REQUIREMENT APPLIES TO ALL SOILS AND CONDITIONS WITHIN THIS PROJECT INCLUDING IMPORT SOILS, ON GRADE SOILS AND/OR ON-STRUCTURE SOILS. VERIFYING ON-STRUCTURE FILTER FABRIC/SOIL COMPATIBILITY SHALL BE PART OF THE OVERALL ANALYSIS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- AN AUTOMATIC IRRIGATION SYSTEM SHALL BE PROVIDED TO IRRIGATE ALL LANDSCAPE AREAS. OVERSPRAY ON STREETS AND WALKS IS PROHIBITED.
- TOPSOIL SHALL BE A MINIMUM OF 4" IN DEPTH. SOIL SHALL BE FREE OF STONES, ROOTS AND ANY OTHER FOREIGN MATERIAL THAT IS NOT BENEFICIAL FOR PLANT GROWTH.
- REF. SHEET L3.12 FOR PLANTING DETAILS.
- REFER TO CIVIL FOR OVERALL SITE GRADING AND SHEET L3.5 FOR POOL AREA GRADING.

**GRADING NOTES:**

- ANY EXISTING AND/OR ON-SITE CONDITIONS WHICH VARY FROM THOSE SHOWN ON DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.
- ALL GRADING SHALL PROVIDE FOR POSITIVE RUNOFF OF WATER WITHOUT LOW SPOTS OR POCKETS. FLOW LINES SHALL BE ACCURATELY SET AND SHALL NOT BE LESS THAN 0.5% GRADIENT UNLESS OTHERWISE NOTED. CONTRACTOR SHALL BE RESPONSIBLE FOR POSITIVE DRAINAGE IN ALL PLANTING AREAS.
- GRADING FOR THE FLATWORK IMPROVEMENTS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2% IN THE DIRECTION OF THE DOWNHILL SLOPE. THE LONGITUDINAL SLOPE OF THE WALKS SHALL BE NO GREATER THAN 5%, U.N.O. ALL GRADES SHALL BE FINISHED TO A SMOOTH, FLOWING CONTOUR, MAINTAINING EXISTING FLOW PATTERNS UNLESS DIRECTED OTHERWISE.
- ALL LAND FORMS AND SWALES SHALL BE GRADED TO BE A SMOOTH, FLOWING, ROUNDED SURFACE PROVIDING POSITIVE DRAINAGE AND VISUAL LAND FORM CONTINUITY. ALL GRADING SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE.
- REFER TO THE GENERAL CONDITIONS AND THE TECHNICAL SPECIFICATIONS SECTIONS FOR THE PLACEMENT, COMPACTION, GRADING AND TESTING OF ALL FILL MATERIAL.
- CONTRACTORS SHALL TAKE CARE IN MINIMIZING THE DISTURBANCE TO EXISTING TREE TRUNKS AND ROOT SYSTEMS. ALL FINISH GRADING UNDER EXISTING TREES SHALL BE COMPLETED BY USING HAND TOOLS. NO EQUIPMENT OR VEHICLES SHALL BE ALLOWED TO WORK, DRIVE UNDER, PARK OR BE STOPPED INSIDE THE DRIP LINE OF THE EXISTING TREES, EXCEPT FOR THOSE AREAS WHERE PAVING IS TO BE PLACED.
- CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL CLEARED BRUSH, DEBRIS, ETC. FROM WITHIN THE LIMITS OF CONSTRUCTION. DISPOSE OF OFF SITE.
- EXISTING UTILITY STRUCTURES ARE TO BE ADJUSTED TO PROPOSED FINISH GRADE.
- FINISH GRADE SHALL BE 0.1' BELOW ADJACENT SIDEWALKS, CURBS AND OTHER FLATWORK.

**LAYOUT & PAVING NOTES:**

- CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING TREES TO REMAIN.
- ALL DIMENSIONS MUST BE VERIFIED ON-SITE AND THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.
- ALL DIMENSIONS ARE TAKEN PERPENDICULAR TO WALL, CURB, P.O.B., OR CENTERLINE UNLESS OTHERWISE NOTED. DIMENSIONS AT CURB ARE FROM BACK OF CURB.
- VERIFY LOCATIONS OF ALL SITE IMPROVEMENTS INSTALLED UNDER OTHER SECTIONS. IF ANY PART OF THIS PLAN CAN NOT BE FOLLOWED DUE TO SITE CONDITIONS CONTACT LANDSCAPE ARCHITECT FOR INSTRUCTION PRIOR TO COMMENCING WORK.
- WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALE.
- PROVIDE EXPANSION JOINTS IN ALL CASES WHERE CONCRETE FLATWORK MEETS VERTICAL STRUCTURES SUCH AS WALLS, CURBS, STEPS AND BUILDING OR WHERE CONCRETE ABUTS UTILITY VAULTS OR BOXES.

**IRRIGATION NOTES:**

- LINE LAYOUT IS DIAGRAMMATIC-ADJUST HEAD AND LINE LOCATIONS ON SITE TO ACCOMMODATE EXISTING JOB CONDITIONS AND TO ACHIEVE COMPLETE COVERAGE.
- ALL MAIN LINE PIPING SHALL BE BURIED TO HAVE A MINIMUM COVER OF 18". ALL LATERAL PIPING DOWNSTREAM OF THE MAIN LINE SHALL BE BURIED TO HAVE A MINIMUM COVER OF 12".
- ALL MAINS ARE TO DRAIN TO LOW POINTS AT A MINIMUM ONE HALF (1/2%) PERCENT SLOPE. AT LOW POINTS, INSTALL GATE VALVE TO FACILITATE DRAINAGE OF SYSTEM DURING FREEZING TEMPERATURES.
- CONTRACTOR SHALL INSTALL AUTOMATIC DRAIN VALVES AT LOW POINTS IN THE IRRIGATION LINES AS REQUIRED TO PREVENT FREEZE DAMAGE.
- ALL VALVE BOXES SHALL BE BLACK IN COLOR (BODY AND LID). SIZES SHALL BE TEN(10") INCHES BY FOURTEEN (14") INCHES (RECTANGULAR) FOR REMOTE CONTROL VALVES AND NINE (9") INCHES (ROUND) FOR GATE AND QUICK COUPLER VALVES.
- CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO SYSTEM LAYOUT IN FIELD TO INSURE POSITIVE DRAINAGE OF LATERAL LINES AND MAIN LINES.
- ALL WIRING FROM THE IRRIGATION CONTROLLER TO THE REMOTE CONTROL VALVES SHALL BE UF-14#1 DIRECT BURIAL CABLE. ALL WIRE SPLICES SHALL BE MADE IN VALVE BOXES ONLY USING RAINBIRD SNAP-TITE CONNECTORS AND SEALANT. PROVIDE SLEEVES FOR WIRE UNDER PAVED AREAS AS REQUIRED.
- ALL IRRIGATION INSTALLATION SHALL CONFORM TO THE LOCAL CODE REGULATIONS AND TCEQ REQUIREMENTS.
- IRRIGATION SYSTEM SHALL BE INSTALLED AND FULLY OPERATIONAL BEFORE INSTALLATION OF LANDSCAPE PLANTINGS.
- IRRIGATION HEADS SHALL BE PLACED AND ADJUSTED SO AS NOT TO SPRAY ON THE BUILDING.
- IRRIGATION HEADS SHALL BE PLACED AND SIZED SO AS NOT TO BE SUSCEPTIBLE TO DAMAGE BY AUTOMOBILE OVERHANGS.
- IRRIGATION CONTRACTOR SHALL PLACE ADJUSTABLE ARC NOZZLES IN PLACE OF FIXED ARC NOZZLE AS NEEDED TO ELIMINATE OVER SPRAY ON TO PAVEMENT.
- ALL IRRIGATION HEADS SHALL HAVE FACTORY INSTALLED CHECK VALVES.

**MAINTENANCE NOTES:**

- LANDSCAPE CONTRACT SHALL INCLUDE, AS AN ALTERNATE BID, A LANDSCAPE MAINTENANCE AGREEMENT. THE LANDSCAPE MAINTENANCE PERIOD SHALL BEGIN ONCE OWNER'S ACCEPTANCE OF IMPROVEMENTS HAS BEEN GIVEN IN WRITING AND EXTEND FOR A PERIOD OF TWO YEARS.
- MAINTENANCE AGREEMENT SHALL GENERALLY CONFORM TO LANDSCAPE MAINTENANCE GUIDELINES PROVIDED BY OWNER AND MODIFIED TO MEET THE BEST MANAGEMENT PRACTICES OF THE LOCAL CLIMATE AND SITE SPECIFIC CONDITIONS.
- AT A MINIMUM, THE AGREEMENT SHALL INCLUDE, ALL LABOR AND MATERIALS TO PERFORM THE PROFESSIONAL MAINTENANCE OF THE SITE'S LANDSCAPE IMPROVEMENTS. THE AGREEMENT SHALL BE WRITTEN TO INCLUDE, BUT MAY NOT BE LIMITED TO, THE FOLLOWING:
  - A. LAWN CARE
  - B. FERTILIZATION
  - C. INTEGRATED PEST MANAGEMENT
  - D. IRRIGATION
  - E. PLANTING BEDS
  - F. TREES AND SHRUBS
- THE PROGRAM FOR THE MAINTENANCE AGREEMENT SHALL BE BASED ON A COMPLETE SOILS ANALYSIS TO ADDRESS SPECIFIC SITE CONDITIONS AND TO ENSURE THE HEALTHY AND VIGOROUS GROWTH OF THE PLANT MATERIALS.



**BGE, Inc.**  
 2595 Dallas Parkway, Suite 101  
 Frisco, TX 75034  
 Tel: 972-464-4800 • www.bgeinc.com  
 TBPE Registration No. F-1046  
 Copyright 2023

**OWNER/DEVELOPER**



646 S. FLORES ST.  
 SAN ANTONIO, TX 78204  
 TEL: (210) 938-4076  
 CONTACT: LANCE KLEIN

**LANDSCAPE ARCHITECT**

**BGE, INC.**  
 2595 DALLAS PKWY.,  
 SUITE 101  
 FRISCO, TX 75034  
 CONTACT: MICHAEL  
 STOTTLER, PLA  
 PHONE: (972) 372-9381

GENERAL NOTES

H-E-B ROCKWALL

LOT 1, BLOCK 1

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

THESE PLANS ARE ISSUED FOR THE PURPOSE OF PRELIMINARY REVIEW AND ARE NOT INTENDED FOR CONSTRUCTION. WHEN ISSUED IN FINAL FORM THEY WILL BE SEALED, SIGNED AND DATED.

RESPONSIBLE LANDSCAPE ARCHITECT:  
 MICHAEL STOTTLER, PLA  
 TEXAS REGISTRATION NO. 3743  
 BGE, INC.  
 TEXAS REGISTERED ENGINEERING  
 FIRM F-1046

December 15, 2023

**!CAUTION !**

Contractor to Verify exact location & Depth of Exist Facilities Prior to any Construction Activities

**!CAUTION !**

CONTACT: 1-800-DIG-TESS  
 48 HOURS PRIOR TO CONSTRUCTION

REVISIONS		
REV. NO.	DATE	DESCRIPTION

CHECKED BY: MLS  
 DESIGNED BY: ACS  
 DATE: December 13, 2023  
 PROJECT NUMBER: 9559-01

SHEET NO

L0.01

GENERAL NOTES



GENERAL LANDSCAPE SPECIFICATIONS AND NOTES

A. SCOPE OF WORK

- 1. THE WORK CONSISTS OF FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT AS SHOWN ON THE DRAWINGS, AS INCLUDED IN THE PLANT LIST, AND AS HEREIN SPECIFIED.
2. WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL PLANTING AREAS OF THIS CONTRACT UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER.

B. PROTECTION OF EXISTING STRUCTURES

ALL EXISTING BUILDINGS, WALKS, WALLS, PAVING, PIPING, AND OTHER ITEMS OF CONSTRUCTION AND PLANTING ALREADY COMPLETED OR ESTABLISHED SHALL BE PROTECTED FROM DAMAGE BY THIS CONTRACTOR UNLESS OTHERWISE SPECIFIED. ALL DAMAGE RESULTING FROM NEGLIGENCE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER.

C. PROTECTION OF EXISTING PLANT MATERIALS OUTSIDE LIMIT OF WORK

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNAUTHORIZED CUTTING OR DAMAGE OF TREES AND SHRUBS EXISTING OR OTHERWISE, CAUSED BY CARELESS OPERATION OF EQUIPMENT, STOCKPILING OF MATERIALS, ETC. THIS SHALL INCLUDE COMPACTION BY DRIVING OR PARKING INSIDE THE DRIP-LINE OR THE SPILLING OF OIL, GASOLINE, OR OTHER DELETERIOUS MATERIALS WITHIN THE DRIP-LINE. NO MATERIALS SHALL BE BURNED WHERE THE HEAT WILL DAMAGE ANY PLANT. TREES KILLED OR DAMAGED SO THAT THEY ARE MISHAPEN AND/OR UNSIGHTLY SHALL BE REPLACED AT THE COST TO THE CONTRACTOR OF TWO HUNDRED DOLLARS (\$200) PER CALIPER INCH ON AN ESCALATING SCALE WHICH ADDS AN ADDITIONAL TWENTY (20) PERCENT PER INCH OVER FOUR (4) INCHES CALIPER AS FIXED AND AGREED LIQUIDATED DAMAGES. CALIPER SHALL BE MEASURED AT SIX (6) INCHES ABOVE GROUND LEVEL FOR TREES UP TO AND INCLUDING FOUR (4) INCHES IN CALIPER AND AT TWELVE (12) INCHES ABOVE GROUND LEVEL FOR TREES OVER FOUR (4) INCHES IN CALIPER.

D. MATERIALS

1. GENERAL

SAMPLES OF MATERIALS AS LISTED BELOW SHALL BE SUBMITTED FOR APPROVAL, ON THE SITE OR AS OTHERWISE DETERMINED BY THE OWNER. UPON APPROVAL OF SAMPLES, DELIVERY OF MATERIALS MAY BEGIN.

Table with 2 columns: MATERIALS, SAMPLES. Includes MULCH, TOPSOIL, and PLANTS with quantities like ONE (1) CUBIC FOOT and ONE (1) CUBIC YARD.

2. PLANT MATERIALS

A. PLANT SPECIES AND SIZE SHALL CONFORM TO THOSE INDICATED ON THE DRAWINGS. NOMENCLATURE SHALL CONFORM TO "STANDARDIZED PLANT NAMES", 1942 EDITION. ALL NURSERY STOCK SHALL BE IN ACCORDANCE WITH GRADES AND STANDARDS AS STATED IN THE LATEST EDITION OF "AMERICAN STANDARD FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN. ALL PLANTS SHALL BE FRESHLY DUG, SOUND, HEALTHY, VIGOROUS, WELL-BRANCHED AND FREE OF DISEASE AND INSECTS. INSECT EGGS AND LARVAE AND SHALL HAVE AN INTEGRAL ROOT SYSTEMS.

B. MEASUREMENTS: THE HEIGHT AND/OR WIDTH OF TREES SHALL BE MEASURED FROM THE GROUND OR ACROSS THE NORMAL SPREAD OF BRANCHES WITH THE PLANTS IN THEIR NORMAL POSITION. THIS MEASUREMENT SHALL NOT INCLUDE THE IMMEDIATE TERMINAL GROWTH. PLANTS LARGER IN SIZE THAN THOSE SPECIFIED IN THE PLANT LIST MAY BE USED IF APPROVED BY THE OWNER. IF THE USE OF LARGER PLANTS IS APPROVED, THE BALL OF EARTH OR SPREAD OF ROOTS SHALL BE INCREASED IN PROPORTION TO THE SIZE OF THE PLANT.

C. INSPECTION: PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, OR UPON DELIVERY TO THE SITE, AS DETERMINED BY THE OWNER, FOR QUALITY, SIZE, AND VARIETY. SUCH APPROVAL SHALL NOT IMPAIR THE RIGHT OF INSPECTION AND REJECTION AT THE SITE DURING PROGRESS OF THE WORK OR AFTER COMPLETION FOR SIZE AND CULATE ROOT SYSTEMS OR ROOTS, LATENT DEFECTS OR INJURIES. REJECTED PLANTS SHALL BE REMOVED IMMEDIATELY FROM THE SITE. NOTICE REQUESTING INSPECTION SHALL BE SUBMITTED IN WRITING BY THE CONTRACTOR AT LEAST ONE (1) WEEK PRIOR TO ANTICIPATED DATE.

E. TOPSOIL

- 1. ASTM D5268, NATURAL, FRIABLE, FERTILE, FINE LOAMY SOIL POSSESSING CHARACTERISTICS OF REPRESENTATIVE TOPSOIL IN THE VICINITY THAT PRODUCES HEAVY GROWTH. TOPSOIL SHALL HAVE A PH RANGE OF 5.5 TO 7.4 PERCENT, FREE FROM SUBSOIL, OBJECTIONABLE WEEDS, LITTER, SODS, STIFF CLAY, STONES LARGER THAN 1-INCH IN DIAMETER, STUMPS, ROOTS, TRASH, HERBICIDES, TOXIC SUBSTANCES, OR ANY OTHER MATERIAL WHICH MAY BE HARMFUL TO PLANT GROWTH OR HINDER PLANTING OPERATIONS. TOP SOIL SHALL CONTAIN A MINIMUM OF THREE PERCENT ORGANIC MATERIAL.
2. SALVAGED OR EXISTING TOPSOIL: REUSE SUITABLE TOPSOIL STOCKPILED ON-SITE OR EXISTING TOPSOIL UNDISTURBED BY GRADING OR EXCAVATION OPERATIONS. CLEAN TOPSOIL OF ROOTS, PLANTS, SOD, STONES, CLAY LUMPS, AND OTHER EXTRANEOUS MATERIALS HARMFUL TO PLANT GROWTH.
3. VERIFY AMOUNT OF SUITABLE TOPSOIL STOCKPILED IF ANY, AND SUPPLY ADDITIONAL IMPORTED TOPSOIL AS NEEDED. FOUR (4) INCHES OF TOPSOIL TO BE PROVIDED FOR ALL PLANTING AREAS WITHIN TWENTY FOUR (24) INCHES OF TOPSOIL TO BE PROVIDED FOR ALL PLANTING AREAS WITHIN INTERIOR LANDSCAPE ISLANDS AND FOUNDATION PLANTINGS. FOR ALL OTHER PLANTING AREAS, TWELVE (12) INCHES OF TOPSOIL MINIMUM TO BE PROVIDED.
4. IMPORTED TOPSOIL: SUPPLEMENT SALVAGED TOPSOIL WITH IMPORTED TOPSOIL FROM OFF-SITE SOURCES WHEN EXISTING QUANTITIES ARE INSUFFICIENT.
5. OBTAIN TOPSOIL DISPLACED FROM NATURALLY WELL-DRAINED SITES WHERE TOPSOIL OCCURS AT LEAST 6 INCHES DEEP. DO NOT OBTAIN FROM AGRICULTURAL LAND, BOGS, OR MARSHES.
6. VERIFY BORROW AND DISPOSAL SITES ARE PERMITTED AS REQUIRED BY STATE AND LOCAL REGULATIONS. OBTAIN WRITTEN CONFIRMATION THAT PERMITS ARE CURRENT AND ACTIVE.
7. OBTAIN PERMITS REQUIRED BY STATE AND LOCAL REGULATIONS FOR TRANSPORTING TOPSOIL. PERMITS SHALL BE CURRENT AND ACTIVE.
8. AMEND EXISTING AND IMPORTED TOPSOIL AS INDICATED BELOW.

a. ORGANIC SOIL AMENDMENTS

- 1. MANURE: WELL-ROTTED, UNLEACHED, STABLE OR CATTLE MANURE CONTAINING NOT MORE THAN 25 PERCENT BY VOLUME OF STRAW, SAWDUST, OR OTHER BEDDING MATERIALS; FREE OF TOXIC SUBSTANCES, STONES, STICKS, SOIL, WEED SEED, AND MATERIAL HARMFUL TO PLANT GROWTH.
2. BACK TO NATURE COTTON BURR COMPOST OR APPROVED EQUIVALENT.
3. COMPOST: DECOMPOSED ORGANIC MATERIAL INCLUDING LEAF LITTER, MANURE, SAWDUST, PLANT TRIMMINGS AND/OR HAY, MIXED WITH SOIL.
4. PECAN HULLS: COMPOSTED PECAN HULLS FROM LOCAL SOURCE.
5. BIOSOLIDS: USE GRADE 1 CONTAINING LOWER PATHOGEN LEVELS.
6. WORM CASTINGS: EARTHWORMS.

b. INORGANIC SOIL AMENDMENTS

- 1. LIME: ASTM C602, CLASS A AGRICULTURAL LIMESTONE CONTAINING A MINIMUM OF 80 PERCENT CALCIUM CARBONATE EQUIVALENT WITH A MINIMUM OF 95 PERCENT PASSING NO. 8 SIEVE AND MINIMUM OF 55 PERCENT PASSING NO. 60 SIEVE.
2. SULFUR: GRANULAR, BIODEGRADABLE, CONTAINING A MINIMUM OF 90 PERCENT SULFUR, WITH A MINIMUM OF 99 PERCENT PASSING NO. 6 SIEVE AND A MAXIMUM OF 10 PERCENT PASSING NO. 40 SIEVE.
3. IRON SULFATE: GRANULATED FERROUS SULFATE CONTAINING A MINIMUM OF 20 PERCENT IRON AND 10 PERCENT SULFUR.
4. AGRICULTURAL GYPSUM: FINELY GROUND, CONTAINING A MINIMUM OF 90 PERCENT CALCIUM SULFATE.
5. SAND: CLEAN, WASHED, NATURAL OR MANUFACTURED, FREE OF TOXIC MATERIALS.

c. ELEMENTS OF MIX

- 1. PLANTING MIX MAY BE PROVIDED BY LIVING EARTH OR MINICK MATERIALS OR APPROVED EQUAL.
2. PLANTING MEDIUM CONTAINING 75 PERCENT SPECIFIED TOPSOIL MIXED WITH 15 PERCENT ORGANIC SOIL AMENDMENTS AND 10 PERCENT SHARP WASHED SAND, TILL TO DEPTH OF 12" OR AS OTHERWISE NOTED. FINISHED GRADES OF PLANTING BEDS TO BE 2" BELOW FINISHED GRADE OF ADJACENT PAVING OR AS SHOWN ON GRADING PLAN.
2. SOD/SEED AREA TOPSOIL: ALL SOD AREAS TO RECEIVE 4" DEPTH (MIN) TOPSOIL PRIOR TO INSTALLATION. TOPSOIL SHALL BE NATURAL, FRIABLE, FERTILE, WITH 25% (MIN.) ORGANIC MATERIAL, AND FREE OF TRASH, DEBRIS, STONES, WEEDS, AND TWIGS/BRANCHES. THE PARTICLE SIZES SHALL BE SUCH THAT 98% OF THE TOPSOIL WILL PASS THROUGH A 1/2 INCH SCREEN, AND 99% MORE SHALL PASS THROUGH A 3/4 INCH SCREEN. TOPSOIL SHALL BE REVIEWED/APPROVED BY OWNER/LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. CONTRACTOR TO SUBMIT SAMPLES IN 1 GAL (MIN.) CONTAINER.

I. WATER

WATER NECESSARY FOR PLANTING AND MAINTENANCE SHALL BE OF SATISFACTORY QUALITY TO SUSTAIN AN ADEQUATE GROWTH OF PLANTS AND SHALL NOT CONTAIN HARMFUL, NATURAL OR MAN-MADE ELEMENTS DETRIMENTAL TO PLANTS. WATER MEETING THE ABOVE STANDARD SHALL BE OBTAINED ON THE SITE FROM THE OWNER, IF AVAILABLE, AND THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ARRANGEMENTS FOR ITS USE BY TANKS, HOSES, SPRINKLERS, ETC. IF SUCH WATER IS NOT AVAILABLE AT THE SITE, THE CONTRACTOR SHALL PROVIDE SUCH SATISFACTORY WATER FROM SOURCES OFF THE SITE AT NO ADDITIONAL COST TO THE OWNER.

J. COMMERCIAL FERTILIZER

COMMERCIAL FERTILIZER SHALL BE A COMPLETE FORMULA; IT SHALL BE UNIFORM IN COMPOSITION, DRY AND FREE FLOWING. THIS FERTILIZER SHALL BE DELIVERED TO THE SITE IN THE ORIGINAL UNOPENED CONTAINERS, EACH BEARING THE MANUFACTURER'S GUARANTEED STATEMENT OF ANALYSIS. FIFTY PERCENT (50%) OF THE NITROGEN SHALL BE DERIVED FROM NATURAL ORGANIC SOURCES. THE FOLLOWING FERTILIZERS SHALL BE USED AND APPLIED AT RATES AS SUGGESTED BY MANUFACTURER'S SPECIFICATIONS:
1. SHRUBS AND TREES - SUSTANE BLEND 16-4-8, OR APPROVED EQUAL
2. ANNUALS AND GROUNDCOVERS - OSMOCOTE/SIERRA BLEND 14-14-14 OR APPROVED EQUAL
3. SOD - 8-8-8 FERTILIZER OR APPROVED EQUAL

K. MULCH

MULCH MATERIAL SHALL BE MOISTENED AT THE TIME OF APPLICATION TO PREVENT WIND DISPLACEMENT, AND APPLIED AT A DEPTH OF 3 INCHES. SEE PLANT LIST FOR TYPE OF MATERIAL AND GRADE.

L. DIGGING AND HANDLING

- 1. PROTECT ROOTS OR BALLS OF PLANTS AT ALL TIMES FROM SUN AND DRYING WINDS, WATER AND FREEZING, AS NECESSARY UNTIL PLANTING. PLANT MATERIALS SHALL BE ADEQUATELY PACKED TO PREVENT BREAKAGE AND DRYING OUT DURING TRANSIT. TREES TRANSPORTED MORE THAN TEN (10) MILES OR WHICH ARE NOT PLANTED WITHIN THREE (3) DAYS OF DELIVERY TO SITE SHALL BE SPRAYED WITH AN ANTI-TRANSPIRANT PRODUCT ("WILTPROF" OR EQUAL) TO MINIMIZE TRANSPIRATIONAL WATER LOSS.
2. BALLED AND BURLAPPED PLANTS (B&B) SHALL BE DUG WITH FIRM, NATURAL BALLS OF SOIL OF SUFFICIENT SIZE TO ENCOMPASS THE FIBROUS AND FEEDING ROOTS OF THE PLANTS. NO PLANTS MOVED WITH A BALL SHALL BE PLANTED IF THE BALL IS CRACKED OR BROKEN. PLANTS BALLED AND BURLAPPED OR CONTAINER GROWN SHALL NOT BE HANDLED BY STEMS.
3. PLANTS MARKED "BR" IN THE PLANT LIST SHALL BE DUG WITH BARE ROOTS. THE ROOTS SHALL NOT BE CUT WITHIN THE MINIMUM SPREAD SPECIFIED IN THE PLANT LIST. CARE SHALL BE EXERCISED THAT THE ROOTS DO NOT DRY OUT IN MOVING AND PRIOR TO PLANTING.
4. PROTECTION OF PALMS (IF APPLICABLE): ONLY A MINIMUM OF FRONDS SHALL BE REMOVED FROM THE CROWN OF THE PALM TREES TO FACILITATE MOVING AND HANDLING. CLEAR TRUNK (CT) SHALL BE AS SPECIFIED AFTER THE MINIMUM OF FRONDS HAVE BEEN REMOVED. ALL PALMS SHALL BE BRACED PER DETAIL.
5. EXCAVATION OF TREE PITS SHALL BE DONE USING EXTREME CARE TO AVOID DAMAGE TO SURFACE AND SUBSURFACE ELEMENTS SUCH AS UTILITIES OR HARDSCAPE ELEMENTS, FOOTERS AND PREPARED SUB-BASES.

M. CONTAINER GROWN STOCK

- 1. ALL CONTAINER GROWN MATERIAL SHALL BE HEALTHY, VIGOROUS, WELL-ROOTED PLANTS AND ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE SOLD. THE PLANTS SHALL HAVE TOPS WHICH ARE OF GOOD QUALITY AND ARE IN A HEALTHY GROWING CONDITION.
2. AN ESTABLISHED CONTAINER GROWN PLANT SHALL BE TRANSLANTED INTO A CONTAINER AND GROWN IN THAT CONTAINER SUFFICIENTLY LONG FOR THE NEW FIBROUS ROOTS TO HAVE DEVELOPED SO THAT THE ROOT MASS WILL RETAIN ITS SHAPE AND HOLD TOGETHER WHEN REMOVED FROM THE CONTAINER. CONTAINER GROWN STOCK SHALL NOT BE HANDLED BY THEIR STEMS.
3. PLANT ROOTS BOUND IN CONTAINERS SHALL NOT BE ACCEPTABLE.
4. SUBSTITUTION OF NON-CONTAINER GROWN MATERIAL FOR MATERIAL EXPLICITLY SPECIFIED TO BE CONTAINER GROWN WILL NOT BE PERMITTED UNLESS WRITTEN APPROVAL IS OBTAINED FROM THE OWNER AND LANDSCAPE ARCHITECT.

N. COLLECTED STOCK

WHEN THE USE OF COLLECTED STOCK IS PERMITTED AS INDICATED ON THE PLANT LIST SCHEDULE, THE MINIMUM SIZES OF ROOTBALLS SHALL BE EQUAL TO THAT SPECIFIED FOR THE NEXT LARGER SIZE OF NURSERY GROWN STOCK OF THE SAME VARIETY.

O. NATIVE STOCK

PLANTS COLLECTED FROM WILD OR NATIVE STANDS SHALL BE CONSIDERED NURSERY GROWN WHEN THEY HAVE BEEN SUCCESSFULLY REESTABLISHED IN A NURSERY ROW AND GROWN UNDER REGULAR NURSERY CULTURAL PRACTICES FOR A MINIMUM OF TWO (2) GROWING SEASONS AND HAVE ATTAINED ADEQUATE ROOT AND TOP GROWTH TO INDICATE FULL RECOVERY FROM TRANSPLANTING INTO THE NURSERY ROW.

P. MATERIALS LIST

QUANTITIES NECESSARY TO COMPLETE THE WORK ON THE DRAWINGS SHALL BE FURNISHED BY THE CONTRACTOR. QUANTITY ESTIMATES HAVE BEEN MADE CAREFULLY, BUT THE LANDSCAPE ARCHITECT OR OWNER ASSUMES NO LIABILITY FOR OMISSIONS OR ERRORS, SHOULD A DISCREPANCY OCCUR BETWEEN THE BIDDERS TAKE OFF AND THE PLANT LIST QUANTITY. THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION PRIOR TO THE SUBMISSIONS OF BIDS. ALL DIMENSIONS AND/OR SIZES SPECIFIED SHALL BE THE MINIMUM ACCEPTABLE SIZE.

Q. FINE GRADING

- 1. FINE GRADING UNDER THIS CONTRACT SHALL CONSIST OF FINAL FINISHED GRADING OF LAWN AND PLANTING AREAS THAT HAVE BEEN ROUGH GRADED BY OTHERS. BERMING AS SHOWN ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR, UNLESS OTHERWISE NOTED.
2. THE LANDSCAPE CONTRACTOR SHALL FINE GRADE THE LAWN AND PLANTING AREAS TO BRING THE ROUGH GRADE UP TO FINAL FINISHED GRADE ALLOWING FOR THICKNESS OF SOD AND/OR MULCH DEPTH. THIS CONTRACTOR SHALL FINE GRADE BY HAND AND/OR WITH ALL EQUIPMENT NECESSARY INCLUDING A GRADING TRACTOR WITH FRONT-END LOADER FOR TRANSPORTING SOIL WITHIN THE SITE.
3. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATER. AREAS ADJACENT TO BUILDINGS SHALL SLOPE AWAY FROM THE BUILDINGS.

R. PLANTING PROCEDURES

- 1. CLEANING UP BEFORE COMMENCING WORK: THE CONTRACTOR SHALL CLEAN UP JOB SITE AND SURROUNDING AREAS OF ALL RUBBISH OR OBJECTIONABLE MATTER. ALL MORTAR, CEMENT, AND TOXIC MATERIAL SHALL BE REMOVED FROM THE SURFACE OF ALL PLANT BEDS. THESE MATERIALS SHALL NOT BE MIXED WITH THE SOIL. SHOULD THE CONTRACTOR FIND SUCH CONDITIONS DURING EXCAVATION WHICH WILL IN ANY WAY ADVERSELY AFFECT THE PLANT GROWTH, HE SHALL IMMEDIATELY CALL IT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT OR OWNER. FAILURE TO DO SO BEFORE PLANTING SHALL MAKE THE CORRECTIVE MEASURES THE RESPONSIBILITY OF THE CONTRACTOR.
2. VERIFY LOCATIONS OF ALL UTILITIES, CONDUITS, SUPPLY LINES AND CABLES, INCLUDING BUT NOT LIMITED TO: ELECTRIC, GAS (LINES AND TANKS), WATER, SANITARY SEWER, STORMWATER LINES, CABLE AND TELEPHONE. PROPERLY MAINTAIN AND PROTECT EXISTING UTILITIES.
3. SUBGRADE EXCAVATION: SITE CONTRACTOR IS RESPONSIBLE TO REMOVE ALL EXISTING AND IMPORTED LIMEROCK AND LIMEROCK SUB-BASE FROM ALL LANDSCAPE PLANTING AREAS TO A MINIMUM DEPTH OF 36". SITE CONTRACTOR IS RESPONSIBLE TO BACKFILL THESE PLANTING AREAS TO ROUGH FINISHED GRADE WITH CLEAN TOPSOIL FROM AN ON-SITE SOURCE OR AN IMPORTED SOURCE. IF LIMEROCK OR OTHER ADVERSE CONDITIONS OCCUR IN PLANTED AREAS AFTER 36" DEEP EXCAVATION BY SITE CONTRACTOR, AND POSITIVE DRAINAGE CAN NOT BE ACHIEVED, LANDSCAPE CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT OR OWNER.
4. FURNISH NURSERY'S CERTIFICATE OF COMPLIANCE WITH ALL REQUIREMENTS AS HEREIN SPECIFIED AND REQUIRED. INSPECT AND SELECT PLANT MATERIALS BEFORE PLANTS ARE DUG AT NURSERY OR GROWING SITE.

- 5. GENERAL: COMPLY WITH APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS GOVERNING LANDSCAPE MATERIALS AND WORK. CONFORM TO ACCEPTED HORTICULTURAL PRACTICES AS USED IN THE TRADE. PLANTS SHALL BE PROTECTED UPON ARRIVAL AT THE SITE BY BEING THOROUGHLY WATERED AND PROPERLY MAINTAINED UNTIL PLANTED. PLANTS SHALL NOT REMAIN UNPROTECTED FOR A PERIOD EXCEEDING TWENTY-FOUR (24) HOURS. AT ALL TIMES WORKMANLIKE METHODS CUSTOMARY IN GOOD HORTICULTURAL PRACTICES SHALL BE EXERCISED.
6. THE WORK SHALL BE COORDINATED WITH OTHER TRADES TO PREVENT CONFLICTS. COORDINATE THE PLANTING WITH THE IRRIGATION WORK TO ASSURE AVAILABILITY OF WATER AND PROPER LOCATION OF IRRIGATION ITEMS AND PLANTS.

7. ALL PLANTING PITS SHALL BE EXCAVATED TO SIZE AND DEPTH IN ACCORDANCE WITH THE USA STANDARD FOR NURSERY STOCK 260.1, UNLESS SHOWN OTHERWISE ON THE DRAWINGS, AND BACKFILLED WITH THE PREPARED PLANTING SOIL AS SPECIFIED HEREIN BEFORE (SECTION H). TEST ALL TREE PITS WITH WATER BEFORE PLANTING TO ASSURE PROPER PERCOLATION IS AVAILABLE. NO ALLOWANCE WILL BE MADE FOR LOST PLANTS DUE TO IMPROPER DRAINAGE. IF POOR DRAINAGE EXISTS, UTILIZE PLANTING DETAIL THAT ADDRESSES THIS CONDITION. TREES SHALL BE SET PLUMB AND HELD IN POSITION UNTIL THE PLANTING MIXTURE HAS BEEN FLUSHED INTO PLACE WITH A SLOW, FULL HOSE STREAM. ALL PLANTING SHALL BE PERFORMED BY PERSONNEL FAMILIAR WITH PLANTING PROCEDURE AND UNDER THE SUPERVISION OF A QUALIFIED PLANTING FOREMAN. PROPER "JETTING IN" SHALL BE ASSURED TO ELIMINATE AIR POCKETS AROUND THE ROOTS. "JET STICK" OR EQUAL IS RECOMMENDED.

8. TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO BUILDINGS AND BUILDING STRUCTURES WHILE INSTALLING TREES.
9. SOIL MIXTURE SHALL BE AS SPECIFIED IN SECTION H OF THESE SPECIFICATIONS. IN ADDITION, EACH PLANTING PIT SHALL RECEIVE 21-GRAM "AGRIFORM" PLANTING TABLETS PER MANUFACTURER'S SPECIFICATIONS OR AS FOLLOWS:

- TWO (2) TABLETS PER 1 GAL. PLANT
- THREE (3) TABLETS PER 3 GAL. PLANT
- FOUR (4) TABLETS PER 10 GAL. PLANT
- LARGER MATERIAL - TWO (2) TABLETS PER 1/2" OF TRUNK CALIPER

10. TREES AND SHRUBS SHALL BE SET STRAIGHT AND AT SUCH A LEVEL THAT AFTER SETTLEMENT, THE PLANT CROWN WILL STAND ONE (1) TO TWO (2) INCHES ABOVE GRADE. EACH PLANT SHALL BE SET IN THE CENTER OF THE PIT. PLANTING SOIL MIXTURE SHALL BE BACKFILLED AND THOROUGHLY TAMPED AROUND THE BALL AND SHALL BE SETTLED BY WATER AFTER TAMPING.

11. FILL HOLE WITH SOIL MIXTURE, MAKING CERTAIN ALL SOIL IS SATURATED. TO DO THIS, FILL HOLE WITH WATER AND ALLOW TO SOAK MINIMUM TWENTY (20) MINUTES, STIRRING IF NECESSARY TO GET SOIL THOROUGHLY WET. PACK LIGHTLY WITH FEET. ADD MORE WET SOIL MIXTURE. DO NOT COVER TOP OF BALL WITH SOIL MIXTURE, ONLY WITH MULCH. ALL BURLAP, ROPE, WIRES, ETC., SHALL BE REMOVED FROM THE SIDES AND TOPS OF BALLS, BUT NO BURLAP SHALL BE PULLED FROM UNDERNEATH.

12. PRUNING: EACH TREE SHALL BE PRUNED TO PRESERVE THE NATURAL CHARACTER OF THE PLANT AS SHOWN ON THE DRAWINGS. ALL SOFT WOOD OR SUCKER GROWTH AND ALL BROKEN OR BADLY DAMAGED BRANCHES SHALL BE REMOVED WITH A CLEAN CUT.

13. SHRUBS AND GROUND COVER PLANTS SHALL BE EVENLY SPACED IN ACCORDANCE WITH THE DRAWINGS AND AS INDICATED ON THE PLANT LIST. CULTIVATE ALL PLANTING AREAS TO A MINIMUM DEPTH OF 6", REMOVE AND DISPOSE ALL DEBRIS. TILL INTO TOP 4" THE PLANTING SOIL MIX AS SPECIFIED IN SECTION E. THOROUGHLY WATER ALL PLANTS AFTER INSTALLATION.

14. TREE GUYING AND BRACING SHALL BE INSTALLED BY THE LANDSCAPE CONTRACTOR IN ACCORDANCE WITH THE PLANS TO INSURE STABILITY AND MAINTAIN TREES IN AN UPRIGHT POSITION. IF THE LANDSCAPE CONTRACTOR AND OWNER DECIDE TO WAIVE THE TREE GUYING AND BRACING, THE OWNER SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING OF THEIR INTENTIONS AND AGREE TO HOLD HARMLESS THE LANDSCAPE ARCHITECT IN THE EVENT ANY TREES FALL DOWN AND DAMAGE PERSON OR PROPERTY.

15. MULCHING: PROVIDE A THREE (3) INCH MINIMUM LAYER OF SPECIFIED MULCH OVER THE ENTIRE AREA OF EACH SHRUB BED, GROUND COVER, VINE BED, AND TREE PIT.

16. HERBICIDE WEED CONTROL: ALL PLANT BEDS SHALL BE KEPT FREE OF NOXIOUS WEEDS UNTIL FINAL ACCEPTANCE OF WORK. IF DIRECTED BY THE OWNER, AN APPROVED CHEMICAL HERBICIDE SHALL BE APPLIED FOR WEED CONTROL BY QUALIFIED PERSONNEL TO ALL PLANTING AREAS IN SPOT APPLICATIONS PER MANUFACTURER'S PRECAUTIONS AND SPECIFICATIONS. PRIOR TO FINAL INSPECTION, TREAT ALL PLANTING BEDS WITH AN APPROVED PRE-EMERGENT HERBICIDE AT AN APPLICATION RATE RECOMMENDED BY THE MANUFACTURER.

S. LAWN SODDING

- 1. THE WORK CONSISTS OF LAWN BED PREPARATION, SOIL PREPARATION, AND SODDING, IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND THE APPLICABLE DRAWINGS TO PRODUCE A GRASS LAWN ACCEPTABLE TO THE OWNER.
2. SOIL PREPARATION: PREPARE LOOSE BED FOUR (4) INCHES DEEP. APPLY FERTILIZER AT RATE OF TWENTY (20) POUNDS PER ONE THOUSAND (1000) SQUARE FEET. APPLICATION SHALL BE UNIFORM UTILIZING APPROVED MECHANICAL SPREADERS. MIX FERTILIZER THOROUGHLY WITH THE SOIL TO A DEPTH OF THREE (3) INCHES. HAND RAKE UNTIL ALL BUMPS AND DEPRESSIONS ARE REMOVED. WET PREPARED AREA THOROUGHLY.
3. LAWN BED PREPARATION: ALL AREAS THAT ARE TO BE SODDED SHALL BE CLEARED OF ANY ROUGH GRASS, WEEDS, AND DEBRIS, AND THE GROUND BROUGHT TO AN EVEN GRADE. THE WHOLE SURFACE SHALL BE ROLLED WITH A ROLLER WEIGHING NOT MORE THAN ONE-HUNDRED (100) POUNDS PER SQUARE FOOT. DURING THE ROLLING, ALL DEPRESSIONS CAUSED BY SETTLEMENT OF ROLLING SHALL BE FILLED WITH ADDITIONAL SOIL, AND THE SURFACE SHALL BE REGRADED AND ROLLED UNTIL PRESENTING A SMOOTH AND EVEN FINISH THAT IS UP TO THE REQUIRED GRADE.
4. SODDING

A. THE CONTRACTOR SHALL SOD ALL AREAS THAT ARE NOT PAVED OR PLANTED AS DESIGNATED ON THE DRAWINGS WITHIN THE CONTRACT LIMITS, UNLESS SPECIFICALLY NOTED OTHERWISE.

B. THE SOD SHALL BE CERTIFIED TO MEET THE STATE PLANT BOARD SPECIFICATIONS, ABSOLUTELY TRUE TO VARIETAL TYPE, AND FREE FROM WEEDS, FUNGUS, INSECTS AND DISEASE OF ANY KIND.

C. SOD PANELS SHALL BE LAID TIGHTLY TOGETHER SO AS TO MAKE A SOLID SODDED LAWN AREA. SOD SHALL BE LAID UNIFORMLY AGAINST THE EDGES OF ALL CURBS AND OTHER HARDSCAPE ELEMENTS, PAVED AND PLANTED AREAS. IMMEDIATELY FOLLOWING SOD LAYING, THE LAWN AREAS SHALL BE ROLLED WITH A LAWN ROLLER CUSTOMARILY USED FOR SUCH PURPOSES, AND THEN THOROUGHLY IRRIGATED. IF, IN THE OPINION OF THE OWNER, TOP-DRESSING IS NECESSARY AFTER ROLLING TO FILL THE VOIDS BETWEEN THE SOD PANELS AND TO EVEN OUT INCONSISTENCIES IN THE SOD, CLEAN SAND AS APPROVED BY THE LANDSCAPE ARCHITECT OR OWNER SHALL BE UNIFORMLY SPREAD OVER THE ENTIRE SURFACE OF THE SOD AND THOROUGHLY WATERED IN.

D. DURING DELIVERY, PRIOR TO AND DURING THE PLANTING OF THE LAWN AREAS, THE SOD PANELS SHALL AT ALL TIMES BE PROTECTED FROM EXCESSIVE DRYING AND UNNECESSARY EXPOSURE OF THE ROOTS TO THE SUN. ALL SOD SHALL BE STACKED SO AS NOT TO BE DAMAGED BY SWEATING OR EXCESSIVE HEAT AND MOISTURE.

5. SEEDING

- A. PROVIDE FRESH, CLEAN, NEW CROP LAWN SEED MIXTURE. FURNISH TO OWNER DEALERS GUARANTEED STATEMENT OF COMPOSITION OF MIXTURE AND PERCENTAGE OF PURITY AND GERMINATION OF EACH VARIETY.
B. SEED MIXTURE: PROVIDE SEED OF GRASS SPECIES AND VARIETIES, PROPORTIONS BY WEIGHT AND MINIMUM PERCENTAGES OF PURITY, GERMINATION, AND MAXIMUM PERCENTAGE OF WEED SEED. SEED MIXTURES VARY BY REGION AND SEASON AND SHALL COMPLY WITH STATE AND LOCAL SOIL CONSERVATION SERVICE STANDARDS FOR LAWN TURF.
C. DO NOT PERFORM SEEDING IN WINDY CONDITIONS.
D. SEEDING SHALL BE DISPERSED IN 2 DIRECTIONS AT RIGHT ANGLES TO EACH OTHER.

E. PERMANENTLY SEED AND MULCH CUT AND FILL SLOPES AS CONSTRUCTION PROCEEDS TO EXTENT CONSIDERED DESIRABLE AND PRACTICAL. IN THE EVENT IT IS NOT PRACTICAL TO SEED AREAS, SLOPES SHALL BE STABILIZED WITH STRAW MULCH AND TACKIFIER, BONDED FIBER MATRIX, NETTING, BLANKETS OR OTHER MEANS TO REDUCE THE EROSION POTENTIAL OF THE AREA.

F. SEED LAWN AREAS BY SOWING EVENLY WITH APPROVED MECHANICAL SEEDER AT RATE OF MINIMUM OF 6 POUNDS PER 1,000 SQUARE FEET. AMOUNT WILL VARY BASED ON VARIETY AND/OR SPECIES. CULTI-PACKER OR APPROVED SIMILAR EQUIPMENT MAY BE USED TO COVER SEED AND TO FORM SEEDBED IN ONE OPERATION. IN AREAS INACCESSIBLE TO CULTI-PACKER, LIGHTLY RAKE SEEDED GROUND WITH FLEXIBLE RAKES AD ROLL WITH WATER BALLAST ROLLER, AFTER ROLLING, MULCH WITH STRAW MULCH AT THE RATE OF 2 TONS PER ACRE.

G. SURFACE LAYER OF SOIL FOR SEEDS AREAS SHALL BE KEPT MOIST DURING THE GERMINATION PERIOD. WATER SEEDS AREAS TWICE DURING THE FIRST WEEK TO A MINIMUM DEPTH OF 6 INCHES WITH A FINE SPRAY; AND, ONCE PER WEEK THEREAFTER AS NECESSARY TO SUPPLEMENT NATURAL RAIN TO EQUIVALENT OF 6 INCHES DEPTH.

H. CONTRACTOR TO REAPPLY SEED AS NECESSARY IN ORDER TO GET ALL SEEDS AREAS ESTABLISHED AS INTENDED.

6. LAWN MAINTENANCE:

- A. WITHIN THE CONTRACT LIMITS, THE CONTRACTOR SHALL PRODUCE A DENSE, WELL ESTABLISHED LAWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RE-SODDING OF ALL ERODED, SUNKEN OR BARE SPOTS UNTIL CERTIFICATION OF ACCEPTABILITY BY THE LANDSCAPE ARCHITECT OR OWNER. REPAIRED SODDING SHALL BE ACCOMPLISHED AS IN THE ORIGINAL WORK (INCLUDING REGRADEING IF NECESSARY).
B. WATER EVERY DAY FOR TEN (10) SUCCESSIVE DAYS, THEN WATER THREE (3) TIMES PER WEEK (AT EVEN INTERVALS) FOR TWO (2) ADDITIONAL WEEKS. ALL WATERING SHALL BE OF SUFFICIENT QUANTITY TO WET OR RESTORE WATER TO DEPTH OF FOUR (4) INCHES. CONTRACTOR TO DETERMINE IF SITE IS IN A DROUGHT RESTRICTION AREA AND MUST FOLLOW CITY/ COUNTY PROTOCOL IF ANY AREE IN PLACE.

T. CLEAN-UP

UPON COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM THEIR WORK. ALL PAVED AREAS SHALL BE BROOM CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

U. PLANT MATERIAL MAINTENANCE

ALL PLANTS AND PLANTING INCLUDED UNDER THIS CONTRACT SHALL BE MAINTAINED BY WATERING, CULTIVATING, SPRAYING, AND ALL OTHER OPERATIONS NECESSARY TO INSURE A HEALTHY CONDITION BY THE CONTRACTOR UNTIL CERTIFICATION OF ACCEPTABILITY BY THE LANDSCAPE ARCHITECT OR OWNER. MAINTENANCE AFTER THE CERTIFICATION OF ACCEPTABILITY SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS IN THIS SECTION.

V. MAINTENANCE (ALTERNATE BID ITEM)

1. CONTRACTORS ARE REQUESTED TO PROVIDE A BID ESTIMATE FOR MAINTENANCE FOLLOWING THE INITIAL NINETY (90)-DAY MAINTENANCE PERIOD ON A COST PER MONTH BASIS.

W. GUARANTEE

1. THE LIFE AND SATISFACTORY CONDITION OF ALL PLANT MATERIAL INSTALLED BY THE LANDSCAPE CONTRACTOR SHALL BE GUARANTEED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTABILITY BY THE LANDSCAPE ARCHITECT OR OWNER.

2. THE LIFE AND SATISFACTORY CONDITION OF ALL OTHER PLANT MATERIAL (INCLUDING SOD) INSTALLED BY THE LANDSCAPE CONTRACTOR SHALL BE GUARANTEED BY THE CONTRACTOR FOR A MINIMUM OF NINETY (90) CALENDAR DAYS, COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTABILITY BY THE LANDSCAPE ARCHITECT OR OWNER.

3. REPLACEMENT: ANY PLANT NOT FOUND IN A HEALTHY GROWING CONDITION AT THE END OF THE GUARANTEE PERIOD SHALL BE REMOVED FROM THE SITE AND REPLACED AS SOON AS WEATHER CONDITIONS PERMIT. ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME KIND AND SIZE AS SPECIFIED IN THE PLANT LIST. THEY SHALL BE FURNISHED, PLANTED, AND MULCHED AS SPECIFIED UNDER "PLANTING", AT NO ADDITIONAL COST TO THE OWNER.

4. IN THE EVENT THE OWNER DOES NOT ENGAGE THE CONTRACTOR FOR LANDSCAPE (AND IRRIGATION) MAINTENANCE, THE CONTRACTOR IS ENCOURAGED TO VISIT THE PROJECT SITE PERIODICALLY DURING THE ONE YEAR WARRANTY PERIOD TO EVALUATE MAINTENANCE PROCEDURES BEING PERFORMED BY THE OWNER. CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING OF MAINTENANCE PROCEDURES OR CONDITIONS WHICH THREATEN VIGOROUS AND HEALTHY PLANT GROWTH. IT IS SUGGESTED SUCH SITE VISITS SHALL BE CONDUCTED A MINIMUM OF ONCE PER MONTH FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF ACCEPTANCE.

X. FINAL INSPECTION AND ACCEPTANCE OF WORK

FINAL INSPECTION AT THE END OF THE GUARANTEE PERIOD SHALL BE ON PLANTING, CONSTRUCTION AND ALL OTHER INCIDENTAL WORK PERTAINING TO THIS CONTRACT. ANY REPLACEMENT AT THIS TIME SHALL BE SUBJECT TO THE SAME ONE (1) YEAR GUARANTEE (OR AS SPECIFIED BY THE LANDSCAPE ARCHITECT OR OWNER IN WRITING) BEGINNING WITH THE TIME OF REPLACEMENT AND ENDING WITH THE SAME INSPECTION AND ACCEPTANCE HEREIN DESCRIBED.



BGE, Inc.
2595 Dallas Parkway, Suite 101
Frisco, TX 75034
Tel: 972-464-4800 • www.bgeinc.com
TBPE Registration No. F-1046
Copyright 2023

OWNER/DEVELOPER



646 S. FLORES ST.
SAN ANTONIO, TX 78204
TEL: (210) 938-4076
CONTACT: LANCE KLEIN

LANDSCAPE ARCHITECT

BGE, INC.
2595 DALLAS PKWY.,
SUITE 101
FRISCO, TX 75034
CONTACT: MICHAEL STOTTLER, PLA
PHONE: (972) 372-9381

LANDSCAPE SPECIFICATIONS

H-E-B ROCKWALL

LOT 1, BLOCK 1

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

THESE PLANS ARE ISSUED FOR THE PURPOSE OF PRELIMINARY REVIEW AND ARE NOT INTENDED FOR CONSTRUCTION. WHEN ISSUED IN FINAL FORM THEY WILL BE SEALED, SIGNED AND DATED.

RESPONSIBLE LANDSCAPE ARCHITECT: MICHAEL STOTTLER, PLA, TEXAS REGISTRATION NO. 3743 BGE, INC. TEXAS REGISTERED ENGINEERING FIRM F-1046 December 15, 2023

CAUTION !!!

Contractor to Verify exact location & Depth of Exist Facilities Prior to any Construction Activities

CAUTION !!!

CONTACT: 1-800-DIG-TESS 48 HOURS PRIOR TO CONSTRUCTION

Table with 3 columns: REVISIONS, REV. NO., DATE, DESCRIPTION. Includes a header row and several empty rows for revisions.

CHECKED BY: MLS
DESIGNED BY: ACS
DATE: December 13, 2023
PROJECT NUMBER: 9559-01

SHEET NO

L0.02

LANDSCAPE SPECIFICATIONS



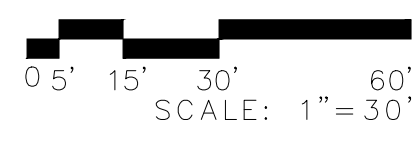
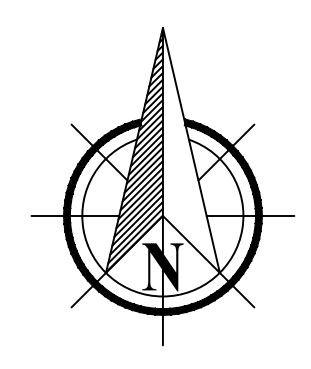
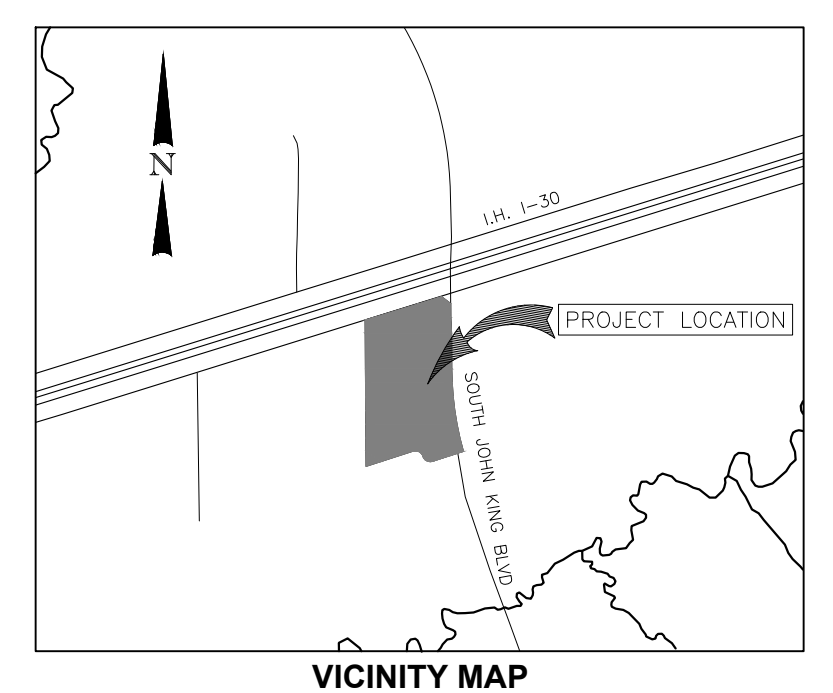
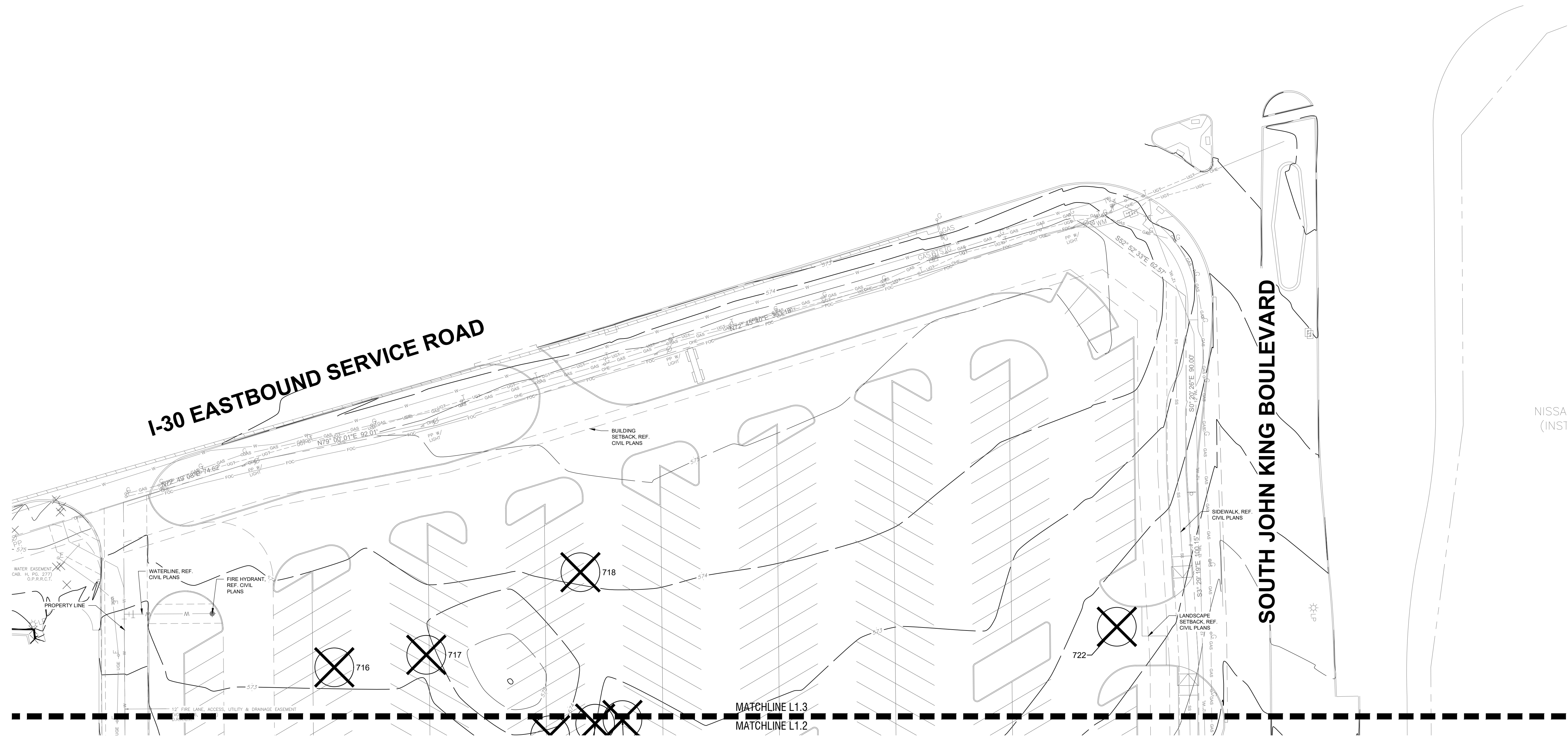




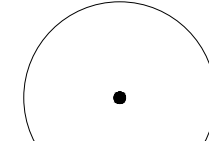

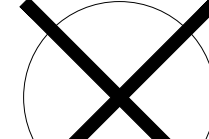




BGE, INC. © 2023. ALL RIGHTS RESERVED. THIS DOCUMENT IS THE PROPERTY OF BGE, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. THE INFORMATION CONTAINED HEREIN IS FOR THE EXCLUSIVE USE OF THE CLIENT AND IS NOT TO BE USED FOR ANY OTHER PURPOSE. THE CLIENT ASSUMES ALL LIABILITY FOR THE USE OF THIS DOCUMENT. THE INFORMATION CONTAINED HEREIN IS NOT TO BE USED FOR ANY OTHER PURPOSE. THE CLIENT ASSUMES ALL LIABILITY FOR THE USE OF THIS DOCUMENT.



**LEGEND**

-  PRESERVED TREE
-  EXEMPT TREE TO BE REMOVED
-  TREE TO BE REMOVED



**BGE, Inc.**  
 2595 Dallas Parkway, Suite 101  
 Frisco, TX 75034  
 Tel: 972-464-4800 • www.bgeinc.com  
 TBPE Registration No. F-1046  
 Copyright 2023

**OWNER/DEVELOPER**



646 S. FLORES ST.  
 SAN ANTONIO, TX 78204  
 TEL: (210) 938-4076  
 CONTACT: LANCE KLEIN

**LANDSCAPE ARCHITECT**

**BGE, INC.**  
 2595 DALLAS PKWY.,  
 SUITE 101  
 FRISCO, TX 75034  
 CONTACT: MICHAEL  
 STOTTLER, PLA  
 PHONE: (972) 372-9381

**TREE PRESERVATION PLAN**

**H-E-B ROCKWALL**

LOT 1, BLOCK 1  
 CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

THESE PLANS ARE ISSUED FOR THE PURPOSE OF PRELIMINARY REVIEW AND ARE NOT INTENDED FOR CONSTRUCTION. WHEN ISSUED IN FINAL FORM THEY WILL BE SEALED, SIGNED AND DATED.  
 RESPONSIBLE LANDSCAPE ARCHITECT:  
 MICHAEL STOTTLER, PLA  
 TEXAS REGISTRATION NO. 3743  
 BGE, INC.  
 TEXAS REGISTERED ENGINEERING FIRM F-1046  
 December 15, 2023

**!CAUTION!**  
 Contractor to Verify exact location & Depth of Exist Facilities Prior to any Construction Activities

**CAUTION!!!**  
 CONTACT: 1-800-DIG-TESS  
 48 HOURS PRIOR TO CONSTRUCTION

REVISIONS		
REV. NO.	DATE	DESCRIPTION

CHECKED BY: MLS  
 DESIGNED BY: ACS  
 DATE: December 13, 2023  
 PROJECT NUMBER: 9559-01

SHEET NO  
**L1.03**  
 TREE PRESERVATION PLAN











Luminaire Schedule					
Symbol	Qty	Label	Description	Luminaire Watts	BUG Rating
☐→	2	M2-18	MRM-LED-18L-SIL-2-50-70CRI-IL	135	B1-U0-G2
☐→	4	M3-12	MRM-LED-12L-SIL-3-40-70CRI	85	B2-U0-G2
☐→	17	M4-12	MRM-LED-12L-SIL-FT-40-70CRI-IL	85	B1-U0-G2
☐→	10	M4-18	MRM-LED-18L-SIL-FT-40-70CRI-IL	135	B1-U0-G3
☐→	20	M5-36	MRM-LED-30L-SIL-5W-40-70CRI	232	B5-U0-G3
⊕	17	RD	HC615D010-HM612840-61MDH	14	B1-U0-G0
⊕	51	RE	HC640D010-HM634835-61WDH	40	B3-U0-G0
⊥	19	X5	AXCL6A	56.43	B2-U0-G1

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Parking Lot	Illuminance	Fc	3.17	23.3	0.0	N.A.	N.A.
Property Line	Illuminance	Fc	0.12	0.2	0.0	N.A.	N.A.
Curbside	Illuminance	Fc	10.90	23.3	0.6	18.17	38.83
Front of Store Drive	Illuminance	Fc	2.70	5.3	0.1	27.00	53.00
Main Parking	Illuminance	Fc	2.71	5.7	1.5	1.81	3.80
Rear Entry Drive	Illuminance	Fc	2.30	3.9	0.1	23.00	39.00
Side Parking	Illuminance	Fc	2.44	3.6	0.7	3.49	5.14
TXBBO	Illuminance	Fc	4.36	12.1	1.3	3.35	9.31

Luminaires & Lamps Furnished By Villa Lighting Inc. St Louis, MO. 63103  
 (800)325-0693  
 www.villalighting.com

The electrical contractor shall be responsible for receiving, storage, installation and wiring of light fixtures.

The electrical contractor shall report any damaged light fixtures or missing parts to Villa Lighting within 48 hours of receipt of light fixture package.

Design is based on current information provided at the time of request. Any changes in mounting height, mounting location, lamp wattage, lamp type, and existing field conditions that effect any of the previously mentioned will void the current layout and require a change request and recalculation. Calculations are based upon a computer simulation and actual field calculations may vary.

Fixtures mounted on 35' pole & 3' base  
 Light level calculated on the ground

#	Date	Comments

#	Date	Revisions


Date: 12/1/2023

HEB  
ROCKWALL, TX





# Mirada Medium (MRM)

## Outdoor LED Area Light



IP66 IK08



### OVERVIEW

Lumen Package	7,000 - 48,000
Wattage Range	48 - 401
Efficacy Range (LPW)	117 - 160
Weight lbs(kg)	30 (13.6)

### QUICK LINKS

[Ordering Guide](#)[Performance](#)[Photometrics](#)[Dimensions](#)

## FEATURES & SPECIFICATIONS

### Construction

- Rugged die-cast aluminum housing contains factory prewired driver and optical unit. Cast aluminum wiring access door located underneath.
- Designed to mount to square or round poles.
- Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
- Shipping weight: 37 lbs in carton.

### Optical System

- State-of-the-Art one piece silicone optic sheet delivers industry leading optical control with an integrated gasket to provide IP66 rated sealed optical chamber in 1 component.
- Proprietary silicone refractor optics provide exceptional coverage and uniformity in IES Types 2, 3, 5W, FT, FTA and AM.
- Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93%.
- Zero uplight.
- Available in 5000K, 4000K, and 3000K color temperatures per ANSI C78.377. Also Available in Phosphor Converted Amber with Peak intensity at 610nm.
- Minimum CRI of 70.
- Integral louver (IL) and integral half louver (IH) options available for enhanced backlight control.

### Electrical

- High-performance programmable driver features over-voltage, under-voltage, short-circuit and over temperature protection. Custom lumen and wattage packages available.
  - 0-10V dimming (10% - 100%) standard.
  - Standard Universal Voltage (120-277 Vac) Input 50/60 Hz or optional High Voltage (347-480 Vac).
  - L80 Calculated Life: >100k Hours (See Lumen Maintenance chart)
  - Total harmonic distortion: <20%
  - Operating temperature: -40°C to +50°C (-40°F to +122°F). 42L and 48L lumen packages rated to +40°C.
  - Power factor: >.90
  - Input power stays constant over life.
  - Field replaceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
  - High-efficacy LEDs mounted to metal-core circuit board to maximize heat dissipation
  - Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards. Driver and key electronic components can easily be accessed.
- ### Controls
- Optional integral passive infrared Bluetooth™ motion and photocell sensor (see page 8 for more details). Fixtures operate independently and can be commissioned via iOS or Android configuration app
  - LSI's AirLink™ wireless control system options reduce energy and maintenance

costs while optimizing light quality 24/7. (see controls section for more details).

### Installation

- Designed to mount to square or round poles.
- A single fastener secures the hinged door, underneath the housing and provides quick & easy access to the electrical compartment.
- Included terminal block accepts up to 12 ga. wire.
- Utilizes LSI's traditional 3" drill pattern B3 for easy fastening of LSI products.

### Warranty

- LSI LED Fixtures carry a 5-year warranty.

### Listings

- Listed to UL 1598 and UL 8750.
- Meets Buy American Act requirements.
- IDA compliant; with 3000K color temperature selection.
- Title 24 Compliant; see local ordinance for qualification information.
- Suitable for wet Locations.
- IP66 rated Luminaire per IEC 60598.
- 3G rated for ANSI C136.31 high vibration applications are qualified.
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.
- Patented Silicone Optics (US Patent NO. 10,816,165 B2)
- IK08 rated luminaire per IEC 66262 mechanical impact code





# Mirada Medium Outdoor LED Area Light

Type : \_\_\_\_\_

 **Have questions?** Call us at (800) 436-7800

## ORDERING GUIDE

[Back to Quick Links](#)

### TYPICAL ORDER EXAMPLE: MRM LED 36L SIL FTA UNV DIM 50 70CRI ALSCS04 BRZ IL

Prefix	Light Source	Lumen Package	Lens	Distribution	Orientation <sup>2</sup>	Voltage	Driver
<b>MRM</b> - Mirada Medium Area Light	<b>LED</b>	<b>7L</b> - 7,000 lms <b>9L</b> - 9,000 lms <b>12L</b> - 12,000 lms <b>18L</b> - 18,000 lms <b>24L</b> - 24,000 lms <b>30L</b> - 30,000 lms <b>36L</b> - 36,000 lms <b>42L</b> - 42,000 lms <b>48L</b> - 48,000 lms Custom Lumen Packages <sup>1</sup>	<b>SIL</b> - Silicone	<b>2</b> - Type 2 <b>3</b> - Type 3 <b>5W</b> - Type 5 Wide <b>FT</b> - Forward Throw <b>FTA</b> - Forward Throw Automotive <b>AM</b> - Automotive Merchandise	<b>(blank)</b> - standard <b>L</b> - Optics rotated left 90° <b>R</b> - Optics rotated right 90°	<b>UNV</b> - Universal Voltage (120-277V) <b>HV</b> - High Voltage (347-480V)	<b>DIM</b> - 0-10V Dimming (0-10%)
Color Temp		Color Rendering	Finish		Options		
<b>50</b> - 5,000 CCT <b>40</b> - 4,000 CCT <b>30</b> - 3,000 CCT <b>AMB</b> - Phosphor Converted Amber <sup>12</sup>		<b>70CRI</b> - 70 CRI	<b>BLK</b> - Black <b>BRZ</b> - Dark Bronze <b>GMG</b> - Gun Metal Gray <b>GPT</b> - Graphite		<b>MSV</b> - Metallic Silver <b>PLP</b> - Platinum Plus <b>SVG</b> - Satin Verde Green <b>WHT</b> - White		<b>(Blank)</b> - None <b>IH</b> - Integral Half Louver (Moderate Spill Light Cutoff) <sup>2</sup> <b>IL</b> - Integral Louver (Sharp Spill Light Cutoff) <sup>2</sup>

### Controls (Choose One)

**(Blank)** - None

#### Wireless Controls System

- ALSC** - AirLink Synapse Control System
- ALSCH** - AirLink Synapse Control System Host / Satellite<sup>3</sup>
- ALSCS02** - AirLink Synapse Control System with 12-20' Motion Sensor
- ALSCS04** - AirLink Synapse Control System with 20-40' Motion Sensor<sup>3</sup>
- ALSCHS04** - AirLink Synapse Control System Host / Satellite with 20-40' Motion Sensor<sup>3</sup>
- ALBCS1** - AirLink Blue Wireless Motion & Photo Sensor Controller (8-24' mounting height)
- ALBCS2** - AirLink Blue Wireless Motion & Photo Sensor Controller (25-40' mounting height)

#### Stand-Alone Controls

- EXT** - 0-10V Dimming leads extended to housing exterior
- CR7P** - 7 Pin Control Receptacle ANSI C136.41<sup>6</sup>
- IMSBT1** - Integral Bluetooth™ Motion and Photocell Sensor (8-24' MH)<sup>5</sup>
- IMSBT2** - Integral Bluetooth™ Motion and Photocell Sensor (25-40' MH)<sup>5</sup>

#### Button Type Photocells

- PC120** - 120V
- PC208-277** - 208-277V
- PC347** - 347V



**Need more information?**  
Click here for our glossary

**Have additional questions?**  
Call us at (800) 436-7800



## ACCESSORY ORDERING INFORMATION<sup>7</sup>

CONTROLS ACCESSORIES	
Description	Order Number
PC120 Photocell for use with CR7P option (120V) <sup>8</sup>	122514
PC208-277 Photocell for use with CR7P option (208V, 240V, 277V) <sup>8</sup>	122515
Twist Lock Photocell (347V) for use with CR7P <sup>8</sup>	122516
Twist Lock Photocell (480V) for use with CR7P <sup>8</sup>	1225180
AirLink 5 Pin Twist Lock Controller <sup>8</sup>	661409
AirLink 7 Pin Twist Lock Controller <sup>8</sup>	661410
Shorting Cap for use with CR7P	149328

FUSING OPTIONS <sup>11</sup>	
Single Fusing (120V)	<a href="#">See Fusing Accessory Guide</a>
Single Fusing (277V)	
Double Fusing (208V, 240V)	
Double Fusing (480V)	
Double Fusing (347V)	

SHIELDING OPTIONS	
Mirada Small	<a href="#">See Shielding Guide</a>
Mirada Medium	
Mirada Large	
Zone Medium	
Zone Large	
Slice Medium	

1. Custom lumen and wattage packages available, consult factory. Values are within industry standard tolerances but not DLC listed.  
 2. Not available with 5W distribution  
 3. Consult Factory for availability.  
 4. Not available in HV.  
 5. IMSBT is field configurable via the LSI app that can be downloaded from your smartphone's native app store.  
 6. Control device or shorting cap must be ordered separately. See Accessory Ordering Information.

7. Accessories are shipped separately and field installed.  
 8. Factory installed CR7P option required. See Options.  
 9. "CLR" denotes finish. See Finish options.  
 10. Only available with ALSC/ALSCH control options.  
 11. Fusing must be located in hand hole of pole. See [Fusing Accessory Guide](#) for compatibility.  
 12. Only available in 9L, 12L, 18L and 24L Lumen Packages. Consult factory for lead time and availability.



# Mirada Medium Outdoor LED Area Light

Type : \_\_\_\_\_

Have questions? Call us at (800) 436-7800

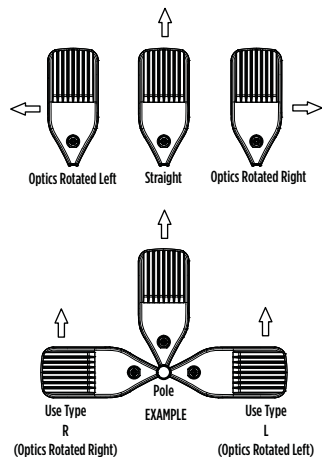
## ACCESSORIES

MOUNTING ACCESSORIES		SHIELDING, POLES & MISC. ACCESSORIES	
Side Arm	<b>Universal Mounting Bracket</b> Mounts to $\geq 3"$ square or round (tapered/straight) poles with (2) mounting hole spaces between 3.5" to 5" <b>Part Number: BKA UMB CLR</b>		<b>Shielding</b> <b>Integral Louver</b> Field Install Integral Louver provides maximum backlight control by shielding each individual row of LEDs <b>Part Number: 686485</b>  <b>Integral Half Louver</b> Field Install Integral Half Louver provides great backlight control without impacting front side distribution. <b>Part Number: 743416</b>  <b>External Shield</b> External shield blocks view of light source from any side of luminaire, additional shielding configurations available <b>Part Number: 785970BLK (3") / 785962BLK (6")</b> 
	<b>Quick Mount Plate</b> True one person installation to existing/new construction poles with hole spaces between 2.4 to 4.6" <b>Part Number: BKS PQM B3B5 XX CLR</b>		
	<b>15° Tilt Quick Mount Plate</b> True one person installation to existing/new construction poles with hole spaces between 2.4 to 4.6" <b>Part Number: BKS PQ15 B3B5 XX CLR</b>		
Tenon / Slipfitter	<b>Adjustable Slipfitter</b> Mounts onto a 2" (51mm) ID, 2.375" (60mm) O.D. tenon and provides 180° of tilt (max 45° above horizontal) <b>Part Number: BKA ASF CLR</b>		<b>Poles</b> <b>Square Poles</b> 14 - 39" steel and aluminum poles in 4", 5" and 6" sizes for retrofit and new construction <b>Part Number: 4SQ/5SQ/6SQ</b>  <b>Round Poles</b> 10 - 30" steel and aluminum poles in 4" and 5" sizes for retrofit and new construction <b>Part Number: 4RP/5RP</b>  <b>Tapered Poles</b> 20" - 39" steel and aluminum poles for retrofit and new construction <b>Part Number: RTP</b> 
	<b>Square Tenon Top</b> Mounts onto a 2" (51mm) ID, 2.375" (60mm) O.D. tenon and allows for mounting up to 4 luminaires <b>Part Number: BKA XNM *</b>		
	<b>Square Internal Slipfitter</b> Mounts inside 4" or 5" square pole and allows for mounting up to 4 luminaires <b>Part Number: BKA X_ISF * CLR</b>		
Wall Mount/ Wood Pole	<b>Wall Mount Bracket</b> Mounts onto vertical wall surface ( hardware/anchors not included) <b>Part Number: BKS XBO WM CLR</b>		<b>Misc.</b> <b>Bird Spikes</b> 10' Linear Bird Spike Kit, 4' recommended per luminaire, includes silicone adhesive and application tool <b>Part Number: 736795</b> 
	<b>Wood Pole Bracket</b> Mounts onto wooden poles (6" minimum OD, hardware/anchors not included) <b>Part Number: BKS XBO WP CLR</b>		

Replace CLR with paint finish description  
 Replace XX with SQ for square pole or RD for round pole ( $\geq 3"$  OD)  
 Replace \* with S (Single), D180 (Double @180°), D90 (Double @90°), T90 (Triple), Q90 (Quad)  
 Replace \_ with 4 (4" square pole) or 5 (5" square pole)

## OPTICS ROTATION

Top View



## ACCESSORIES/OPTIONS

### Integral Louver (IL) and House-Side Shield (IH)

Integral louver (IL) and half louver (IH) accessory shields available for improved backlight control without sacrificing street side performance. LSI's Integral Louver (IL) and Integral House-Side Shield (IH) options deliver backlight control that significantly reduces spill light behind the poles for applications with pole locations close to adjacent properties. The design maximizes forward reflected light while reducing glare, maintaining the optical distribution selected, and most importantly eliminating light trespass. Both options rotate

Luminaire Shown with Integral Louver (IL)



Luminaire Shown with IMSBT Option



### 7 Pin Photoelectric Control

7-pin ANSI C136.41-2013 control receptacle option available for twist lock photocontrols or wireless control modules. Control accessories sold separately. Dimming leads from the receptacle will be connected to the driver dimming leads (Consult factory for alternate wiring).

Luminaire Shown with CR7P





# Mirada Medium Outdoor LED Area Light

Type : \_\_\_\_\_

 Have questions? Call us at (800) 436-7800

## PERFORMANCE

[Back to Quick Links](#)

DELIVERED LUMENS*												
Lumen Package	Distribution	CRI	3000K CCT			4000K CCT			5000K CCT			Wattage
			Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	
7L	2	70	7560	157	B2-U0-G2	7560	157	B2-U0-G2	7560	157	B2-U0-G2	48
	3		7616	159	B1-U0-G2	7616	159	B1-U0-G2	7616	159	B1-U0-G2	
	5W		7292	152	B3-U0-G1	7292	152	B3-U0-G1	7292	152	B3-U0-G1	
	FT		7562	158	B2-U0-G2	7562	158	B2-U0-G2	7562	158	B2-U0-G2	
	FTA		7595	158	B2-U0-G2	7595	158	B2-U0-G2	7595	158	B2-U0-G2	
	AM		7687	160	B1-U0-G1	7687	160	B1-U0-G1	7687	160	B1-U0-G1	
9L	2	70	9853	159	B2-U0-G2	9853	159	B2-U0-G2	9853	159	B2-U0-G2	62
	3		9926	160	B2-U0-G2	9926	160	B2-U0-G2	9926	160	B2-U0-G2	
	5W		9504	153	B3-U0-G2	9504	153	B3-U0-G2	9504	153	B3-U0-G2	
	FT		9856	159	B2-U0-G3	9856	159	B2-U0-G3	9856	159	B2-U0-G3	
	FTA		9900	160	B2-U0-G2	9900	160	B2-U0-G2	9900	160	B2-U0-G2	
	AM		10019	162	B2-U0-G1	10019	162	B2-U0-G1	10019	162	B2-U0-G1	
12L	2	70	13135	155	B3-U0-G2	13135	155	B3-U0-G2	13135	155	B3-U0-G2	85
	3		13232	156	B2-U0-G2	13232	156	B2-U0-G2	13232	156	B2-U0-G2	
	5W		12669	149	B4-U0-G2	12669	149	B4-U0-G2	12669	149	B4-U0-G2	
	FT		13138	155	B2-U0-G3	13138	155	B2-U0-G3	13138	155	B2-U0-G3	
	FTA		13196	155	B2-U0-G2	13196	155	B2-U0-G2	13196	155	B2-U0-G2	
	AM		13355	157	B2-U0-G2	13355	157	B2-U0-G2	13355	157	B2-U0-G2	
18L	2	70	19318	143	B3-U0-G3	19318	143	B3-U0-G3	19318	143	B3-U0-G3	135
	3		19461	144	B3-U0-G3	19461	144	B3-U0-G3	19461	144	B3-U0-G3	
	5W		18633	138	B4-U0-G2	18633	138	B4-U0-G2	18633	138	B4-U0-G2	
	FT		19324	143	B3-U0-G3	19324	143	B3-U0-G3	19324	143	B3-U0-G3	
	FTA		19408	144	B3-U0-G3	19408	144	B3-U0-G3	19408	144	B3-U0-G3	
	AM		19641	145	B3-U0-G2	19641	145	B3-U0-G2	19641	145	B3-U0-G2	
24L	2	70	25957	147	B4-U0-G3	25957	147	B4-U0-G3	25957	147	B4-U0-G3	176
	3		26149	149	B3-U0-G4	26149	149	B3-U0-G4	26149	149	B3-U0-G4	
	5W		25037	142	B5-U0-G3	25037	142	B5-U0-G3	25037	142	B5-U0-G3	
	FT		25964	148	B3-U0-G4	25964	148	B3-U0-G4	25964	148	B3-U0-G4	
	FTA		26077	148	B3-U0-G3	26077	148	B3-U0-G3	26077	148	B3-U0-G3	
	AM		26393	150	B3-U0-G2	26393	150	B3-U0-G2	26393	150	B3-U0-G2	
30L	2	70	32417	140	B4-U0-G3	32417	140	B4-U0-G3	32417	140	B4-U0-G3	232
	3		32656	141	B3-U0-G4	32656	141	B3-U0-G4	32656	141	B3-U0-G4	
	5W		31267	135	B5-U0-G3	31267	135	B5-U0-G3	31267	135	B5-U0-G3	
	FT		32424	140	B3-U0-G4	32424	140	B3-U0-G4	32424	140	B3-U0-G4	
	FTA		32566	140	B4-U0-G3	32566	140	B4-U0-G3	32566	140	B4-U0-G3	
	AM		32960	142	B3-U0-G3	32960	142	B3-U0-G3	32960	142	B3-U0-G3	
36L	2	70	38275	133	B4-U0-G4	38275	133	B4-U0-G4	38275	133	B4-U0-G4	288
	3		38557	134	B4-U0-G5	38557	134	B4-U0-G5	38557	134	B4-U0-G5	
	5W		36917	128	B5-U0-G4	36917	128	B5-U0-G4	36917	128	B5-U0-G4	
	FT		38283	133	B4-U0-G5	38283	133	B4-U0-G5	38283	133	B4-U0-G5	
	FTA		38450	134	B4-U0-G4	38450	134	B4-U0-G4	38450	134	B4-U0-G4	
	AM		38916	135	B3-U0-G3	38916	135	B3-U0-G3	38916	135	B3-U0-G3	



# Mirada Medium Outdoor LED Area Light

Type : \_\_\_\_\_

 Have questions? Call us at (800) 436-7800

## PERFORMANCE (CONT.)

DELIVERED LUMENS*												
Lumen Package	Distribution	CRI	3000K CCT			4000K CCT			5000K CCT			Wattage
			Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	
42L	2	70	44118	125	B5-U0-G4	44118	125	B5-U0-G4	44118	125	B5-U0-G4	354
	3		44444	126	B4-U0-G5	44444	126	B4-U0-G5	44444	126	B4-U0-G5	
	5W		42555	120	B5-U0-G4	42555	120	B5-U0-G4	42555	120	B5-U0-G4	
	FT		44130	125	B4-U0-G5	44130	125	B4-U0-G5	44130	125	B4-U0-G5	
	FTA		44322	125	B4-U0-G4	44322	125	B4-U0-G4	44322	125	B4-U0-G4	
	AM		44859	127	B4-U0-G3	44859	127	B4-U0-G3	44859	127	B4-U0-G3	
48L	2	70	48795	122	B5-U0-G4	48795	122	B5-U0-G4	48795	122	B5-U0-G4	401
	3		49156	123	B4-U0-G5	49156	123	B4-U0-G5	49156	123	B4-U0-G5	
	5W		47066	117	B5-U0-G4	47066	117	B5-U0-G4	47066	117	B5-U0-G4	
	FT		48809	122	B4-U0-G5	48809	122	B4-U0-G5	48809	122	B4-U0-G5	
	FTA		49021	122	B5-U0-G4	49021	122	B5-U0-G4	49021	122	B5-U0-G4	
	AM		49615	124	B4-U0-G3	49615	124	B4-U0-G3	49615	124	B4-U0-G3	

ELECTRICAL DATA (AMPS)*						
Lumens	120V	208V	240V	277V	347V	480V
7L	0.40	0.23	0.20	0.17	0.14	0.10
9L	0.52	0.30	0.26	0.22	0.18	0.13
12L	0.71	0.41	0.35	0.31	0.24	0.18
18L	1.13	0.65	0.56	0.49	0.39	0.28
24L	1.47	0.85	0.73	0.64	0.51	0.37
30L	1.93	1.12	0.97	0.84	0.67	0.48
36L	2.40	1.38	1.20	1.04	0.83	0.60
42L	2.95	1.70	1.48	1.28	1.02	0.74
48L	3.4A	1.9A	1.7A	1.5A	1.2A	0.8A

ELECTRICAL DATA - PHOSPHOR CONVERTED AMBER (AMPS)*							
Lumens	Watts	120V	208V	240V	277V	347V	480V
9L	74.3	0.6A	0.4A	0.3A	0.3A	0.2A	0.2A
12L	102.9	0.9A	0.5A	0.4A	0.4A	0.3A	0.2A

\*Electrical data at 25°C (77°F). Actual wattage may differ by +/-10%

RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (7-18L)					
Ambient	Initial <sup>2</sup>	25h <sup>2</sup>	50hr <sup>2</sup>	75hr <sup>2</sup>	100hr <sup>2</sup>
0-50 C	100%	96%	92%	88%	84%

RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (24-48L)					
Ambient	Initial <sup>2</sup>	25h <sup>2</sup>	50hr <sup>2</sup>	75hr <sup>2</sup>	100hr <sup>2</sup>
0-40 C	100%	100%	97%	94%	92%

1. Lumen maintenance values at 25C are calculated per TM-21 based on LM-80 data and in-situ testing.

2. In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times the IESNA LM-80-08 total test duration for the device under testing.

3. In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times the IESNA LM-80-08 total test duration for the device under testing.

DELIVERED LUMENS*					
Lumen Package	Distribution	Phosphor Converted Amber (Peak 610nm)			Wattage
		Delivered Lumens	Efficacy	BUG Rating	
9L	2	5848	80	B2-U0-G2	74
	3	6018	82	B1-U0-G2	
	5W	5471	74	B3-U0-G1	
	FT	5801	79	B1-U0-G2	
	FTA	5924	81	B1-U0-G1	
	AM	5995	81	B1-U0-G1	
12L	2	7550	74	B2-U0-G2	102
	3	7749	76	B1-U0-G2	
	5W	7045	69	B3-U0-G2	
	FT	7470	73	B2-U0-G2	
	FTA	7628	75	B2-U0-G2	
	AM	7720	76	B1-U0-G1	
18L	2	9311	69	B2-U0-G2	135
	3	9582	71	B2-U0-G2	
	5W	8712	65	B3-U0-G2	
	FT	9237	68	B2-U0-G2	
	FTA	9433	70	B2-U0-G2	
	AM	9546	71	B2-U0-G1	
24L	2	10955	63	B2-U0-G2	175
	3	11273	64	B2-U0-G2	
	5W	10249	59	B3-U0-G2	
	FT	10867	62	B2-U0-G2	
	FTA	11097	63	B2-U0-G2	
	AM	11230	64	B2-U0-G1	

\*LEDs are frequently updated therefore values are nominal.



# Mirada Medium Outdoor LED Area Light

Type : \_\_\_\_\_

 Have questions? Call us at (800) 436-7800

## PHOTOMETRICS

[Back to Quick Links](#)

Luminaire photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. As specified by IESNA LM-79-08 the entire luminaire is tested as the source resulting in a luminaire efficiency of 100%.

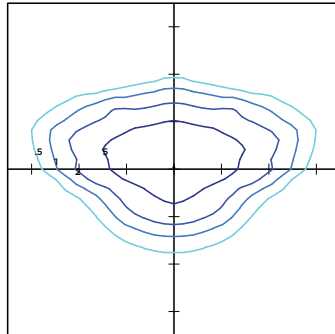
See the individual product page on <https://www.lsicorp.com/> for detailed photometric data.

### MRM-LED-30L-SIL-2-40-70CRI

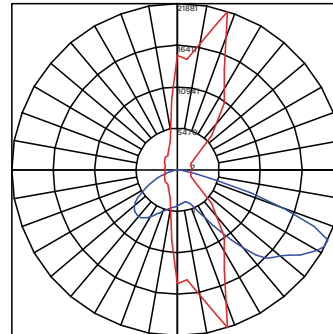
Luminaire Data	
Type 2 Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	32,416
Watts	232
Efficacy	140
IES Type	Type II - Short
BUG Rating	B4-U0-G3

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30°)	4796	15%
Medium (30-60°)	19811	61%
High (60-80°)	7474	23%
Very High (80-90°)	335	1%
Uplight (90-180°)	0	0%
<b>Total Flux</b>	<b>32416</b>	<b>100%</b>

ISO Footcandle



POLAR CURVE



25' Mounting Height/ 25' Grid Spacing

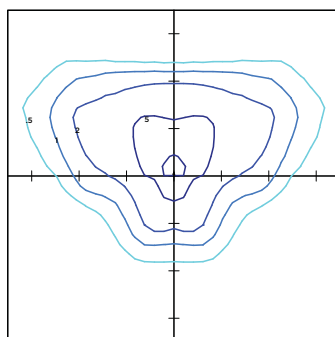
■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5 FC

### MRM-LED-30L-SIL-3-40-70CRI

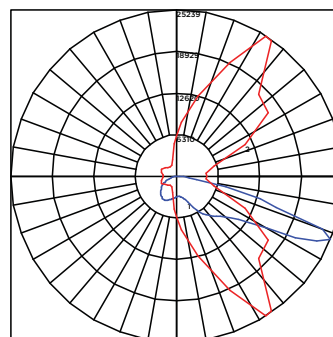
Luminaire Data	
Type 3 Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	32,656
Watts	232
Efficacy	141
IES Type	Type III - Short
BUG Rating	B3-U0-G4

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30°)	3385	10%
Medium (30-60°)	16250	50%
High (60-80°)	12430	38%
Very High (80-90°)	591	2%
Uplight (90-180°)	0	0%
<b>Total Flux</b>	<b>32656</b>	<b>100%</b>

ISO Footcandle



POLAR CURVE



25' Mounting Height/ 25' Grid Spacing

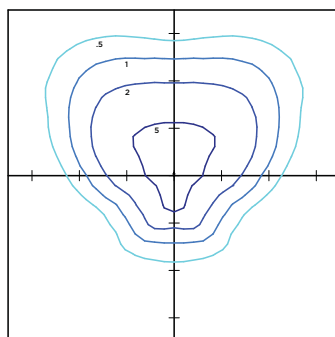
■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5 FC

### MRM-LED-30L-SIL-FT-40-70CRI

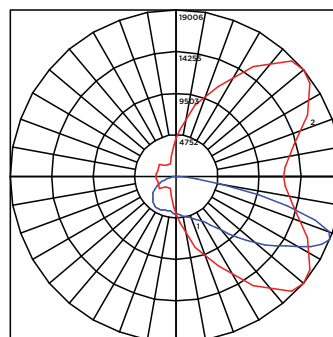
Luminaire Data	
Type FT Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	32,424
Watts	232
Efficacy	140
IES Type	Type IV - Short
BUG Rating	B3-U0-G4

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30°)	3952	12%
Medium (30-60°)	15505	48%
High (60-80°)	12279	38%
Very High (80-90°)	688	2%
Uplight (90-180°)	0	0%
<b>Total Flux</b>	<b>32424</b>	<b>100%</b>

ISO Footcandle



POLAR CURVE



25' Mounting Height/ 25' Grid Spacing

■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5 FC



# Mirada Medium Outdoor LED Area Light

Type : \_\_\_\_\_

 Have questions? Call us at (800) 436-7800

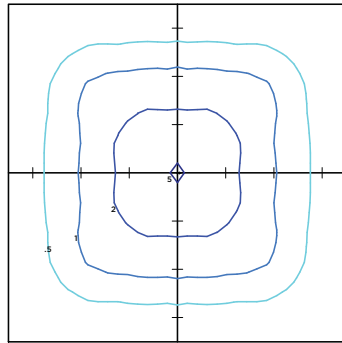
## PHOTOMETRICS (CONT)

### MRM-LED-30L-SIL-5W-40-70CRI

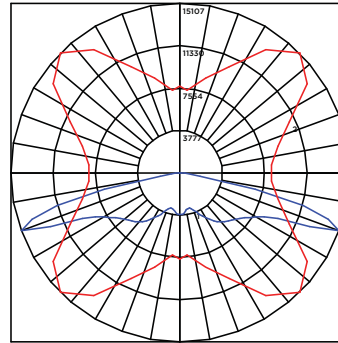
Luminaire Data	
Type SW Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	31,267
Watts	232
Efficacy	135
IES Type	Type VS - Short
BUG Rating	B5-U0-G3

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30°)	3138	10%
Medium (30-60°)	13193	42%
High (60-80°)	14641	47%
Very High (80-90°)	296	1%
Uplight (90-180°)	0	0%
<b>Total Flux</b>	<b>31267</b>	<b>100%</b>

ISO Footcandle



POLAR CURVE



25' Mounting Height/ 25' Grid Spacing

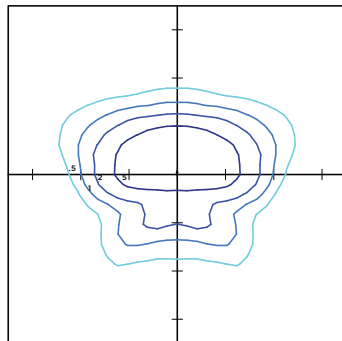
■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5 FC

### MRM-LED-30L-SIL-FTA-40-70CRI

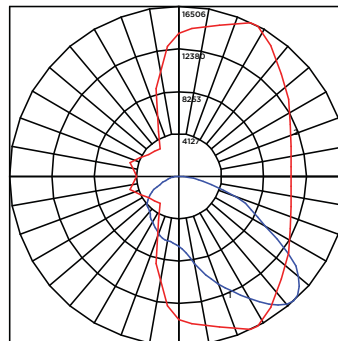
Luminaire Data	
Type FTA Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	32,566
Watts	232
Efficacy	140
IES Type	Type VS - Short
BUG Rating	B4-U0-G3

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30°)	6986	21%
Medium (30-60°)	19172	59%
High (60-80°)	5875	18%
Very High (80-90°)	534	2%
Uplight (90-180°)	0	0%
<b>Total Flux</b>	<b>32566</b>	<b>100%</b>

ISO Footcandle



POLAR CURVE



25' Mounting Height/ 25' Grid Spacing

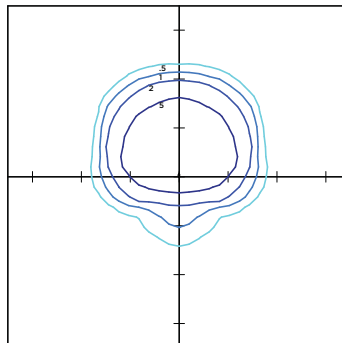
■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5 FC

### MRM-LED-30L-SIL-AM-40-70CRI

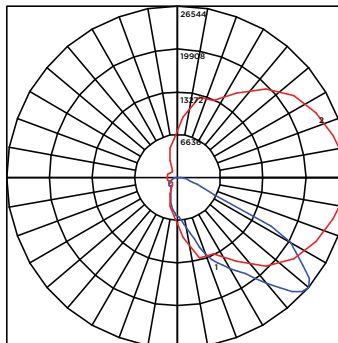
Luminaire Data	
Type AM Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	32,960
Watts	232
Efficacy	142
IES Type	Type III - Very Short
BUG Rating	B3-U0-G3

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30°)	6363	19%
Medium (30-60°)	22026	67%
High (60-80°)	4192	13%
Very High (80-90°)	379	1%
Uplight (90-180°)	0	0%
<b>Total Flux</b>	<b>32960</b>	<b>100%</b>

ISO Footcandle



POLAR CURVE



25' Mounting Height/ 25' Grid Spacing

■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5 FC



## DESCRIPTION

Recessed 6-inch LED downlight provides narrow, medium or wide distribution patterns ideal for general area lighting. Lumen options range from 1000 to 4000 lumens in color temperatures of 2700K, 3000K, 3500K, and 4000K; in 80 or 90CRI. Luminaire is airtight and can be installed in new construction or below the finished ceiling in remodeling applications. Intended for healthcare, hospitality, office spaces, and institutional applications.

Catalog #	HC615D010-HM612840-61MDH	Type
Project	HEB	RD
Comments		Date
Prepared by		

## SPECIFICATION FEATURES

## Housing Frame

- Boat shaped galvanized steel plaster frame with adjustable plaster lip accommodates 1/2" to 1-1/2" thick ceilings
- May be installed in new construction; may be installed from below the finished (non-accessible) ceiling in remodeling (with mounting bars removed).
- Provided with (2) old work remodel clips to secure the frame to the ceiling

## Universal Mounting Bracket

- Mounting bracket adjusts 2" vertically from above the ceiling or thru the aperture
- Use with the included mounting bars or with 1/2" EMT
- Removable to facilitate installation from below the finished ceiling

## Mounting Bars

- Captive pre-installed No Fuss™ mounting bars lock to tee grid with screwdriver or pliers
- Centering mechanism allows for consistent positioning of fixtures

## LED Module

- Proximity phosphors over chip on board LEDs provide a uniform source with high efficiency and no pixilation
- Available in 80 or 90 CRI minimum, accuracy within 3 SDCM provides color uniformity
- 90 CRI option: R9>50 (refer to photometry section)
- Correlated color temperature options
  - 2700K
  - 3000K
  - 3500K
  - 4000K
- Passive thermal management achieves L70 at 50,000 hours in IC and non IC applications
- Integral diffuse lens provides visual shielding
- Integral connector allows quick connection to housing flex

## Lumen Options

- Nominal lumen values
  - 1000 lm
  - 1500 lm
  - 2000 lm
  - 3000 lm
  - 4000 lm

## Reflector

- Self-flanged aluminum reflectors are available in narrow, medium or wide distribution patterns
- Medium distribution polymer non-conductive matte white reflector may be used to meet local codes for 'dead front' applications (Non-IC, 3000 lumen max.)
- Wall wash reflector features a rotatable insert assembly with integral linear spread lens for precise alignment of vertical illumination.
- Reflector attaches to LED module with (3) speed clamps
- Multiple painted or plated finishes are available

## Reflector / Module Retention

- Reflector / module assembly is securely retained in the housing with (2) torsion springs

## Driver

- Field replaceable constant current driver provides low noise operation
- UNV 120-277VAC 50/60Hz input standard
- 347VAC 50/60Hz input option (Canada only)
- Continuous, flicker-free 1% dimming with 0-10V analog control
- Optional low voltage DC driver for use with Eaton's DLVP distributed low voltage power system combines power and control

## Emergency Option

- Provides 90 minutes of standby lighting meeting most life safety codes for egress lighting
- Available with integral or remote charge indicator and test switch

## Connected Lighting System Options

- WaveLinX tile mount daylight sensor includes control module, sensor and cable providing comprehensive lighting control
- LumaWatt Pro (powered by Enlighted) wireless tile mount sensor and control kit

## Junction Box

- Galvanized steel junction box
- 20 in<sup>3</sup> internal volume excluding voltage barrier
- 25 in<sup>3</sup> internal total volume
- Voltage divider for 0-10V dimming wires [occupies (1) 1/2" pry-out space]
- Listed for (8) #12 AWG (four in, four out) 90° C conductors and feed-thru branch wiring
- (3) 1/2" and (2) 3/4" trade size pry-outs available
- (3) 4-port push wire nuts for mains voltage, with 1-port for fixture connection

## Compliance

- cULus Listed/Classified, wet location labeled for covered ceilings
- IP20 - Above finished ceiling; IP65 - Below finished ceiling
- Non-IC rated 3000, 4000 lumen models. Insulation must be kept 3" from top and sides.
- IC rated 1000, 1500, 2000 lumen models, and suitable for direct contact to air permeable insulation
- Not for use in direct contact with spray foam insulation, consult NEMA LSD57-2013
- Airtight per ASTM-E283-04
- Suitable for use in clothes closets when installed in accordance with the NEC 410.16 spacing requirements
- EMI/RFI emissions FCC CFR Title 47 Part 15 Class A at 120/277V & Class B at 120V
- Contains no mercury or lead and RoHS compliant
- Photometric testing in accordance with IES LM-79-08
- Lumen maintenance projections in accordance with IES LM-80-08 and TM-21-11
- 1000, 1500 and 2000 lumen 90CRI ICAT models may be used to comply with State of California Title 24 residential code, with JA8-2016-E database certification
- May be used to comply with State of California Title 24 non-residential code, as a dimmable LED luminaire
- ENERGY STAR® certified, reference certified light fixtures database

## Warranty

- Five year limited warranty, consult website for details.  
[www.eaton.com/lighting/legal](http://www.eaton.com/lighting/legal)



**HC6**  
Frame

**HM6**  
LED Module

**61**  
**61PS**

Series Reflectors

**6-inch Lens Downlight**  
**and Lens Wall Wash**

**1000/1500/2000/**  
**3000/4000 Lumen**





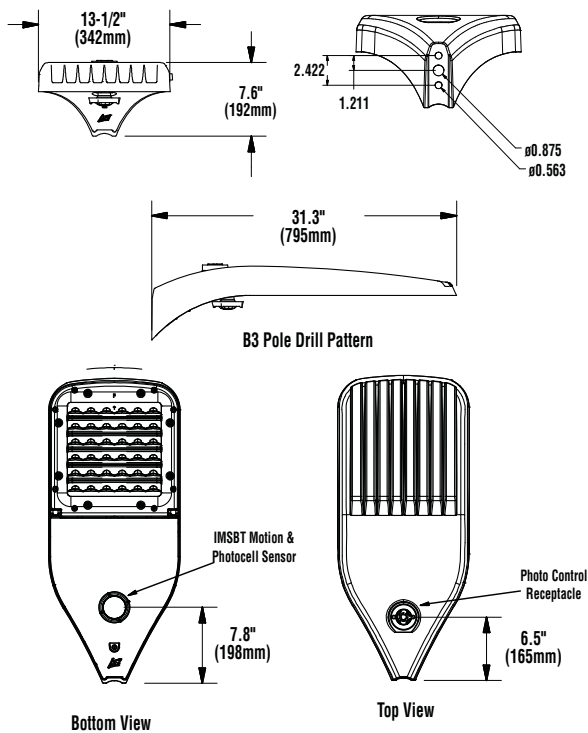
# Mirada Medium Outdoor LED Area Light







Type : \_\_\_\_\_

 **Have questions?** Call us at (800) 436-7800

## PRODUCT DIMENSIONS

[Back to Quick Links](#)



LUMINAIRE EPA CHART - MRM									
Tilt Degree		0°	30°	45°	Tilt Degree	0°	30°	45°	
	Single	0.5	1.5	1.9		T90°	1.0	2.5	2.8
	D180°	1.0	1.5	1.9		TN120°	1.0	3.3	3.9
	D90°	0.8	1.9	2.3		Q90°	1.0	2.5	2.8

## CONTROLS

### AirLink Wireless Lighting Controller

The AirLink integrated controller is a California Title 24 compliant lighting controller that provides real-time light monitoring and control with utility-grade power monitoring. It includes a 24V sensor input and power supply to connect a sensor into the outdoor AirLink wireless lighting system. The wireless integrated controller is compatible with this fixture.

Click the link below to learn more details about AirLink.

<https://www.lsicorp.com/wp-content/uploads/documents/products/airlink-outdoor-specsheet.pdf>

### Integral Bluetooth™ Motion and Photocell Sensor (IMSBT)

Slim low profile sensor provides multi-level control based on motion and/or daylight. Sensor controls 0-10 VDC LED drivers and is rated for cold and wet locations (-30° C to 70° C). Two unique PIR lenses are available and used based on fixture mounting height. All control parameters are adjustable via an iOS or Android App capable of storing and transmitting sensor profiles.

Click the link below to learn more details about IMSBT.

<https://www.lsicorp.com/wp-content/uploads/documents/products/imsbt-specsheet.pdf>

### AirLink Blue

Wireless Bluetooth Mesh Outdoor Lighting Control System that provides energy savings, code compliance and enhanced safety/security for parking lots and parking garages. Three key components; Bluetooth wireless radio/sensor controller, Time Keeper and an iOS App. Capable of grouping multiple fixtures and sensors as well as scheduling time-based events by zone. Radio/Sensor Controller is factory integrated into Area/Site, Wall Mounted, Parking Garage and Canopy luminaires.

Click the link below to learn more details about AirLink Blue.

<https://www.lsicorp.com/product/airlink-blue/>



## ENERGY DATA

Series	1000 lumen	
Input Voltage (VAC)	120V	277V
Input Current (A)	0.085	0.042
Input Power (W)	10.1	10.9
In-rush Current (A)	0.644	1.95
In-rush Duration (ms)	0.125	0.24
THDi (%)	8.6	15.6
PF:	≥ 0.90	
(Nominal input 120-277VAC & 100% of rated output power)		
Minimum starting temperature -40°C (-40°F)		
Sound Rating: Class A standards		

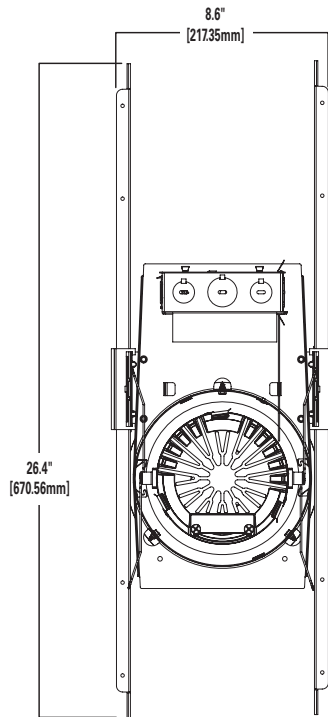
Series	1500 lumen	
Input Voltage (VAC)	120V	277V
Input Current (A)	0.119	0.055
Input Power (W)	14.2	14.9
In-rush Current (A)	0.212	0.85
In-rush Duration (ms)	0.28	0.32
THDi (%)	7.8	16.3
PF:	≥ 0.90	
(Nominal input 120-277VAC & 100% of rated output power)		
Minimum starting temperature -40°C (-40°F)		
Sound Rating: Class A standards		

Series	2000 lumen	
Input Voltage (VAC)	120V	277V
Input Current (A)	0.176	0.082
Input Power (W)	21.1	21.4
In-rush Current (A)	0.588	0.624
In-rush Duration (ms)	0.3	0.38
THDi (%)	8.8	11.2
PF:	≥ 0.90	
(Nominal input 120-277VAC & 100% of rated output power)		
Minimum starting temperature -40°C (-40°F)		
Sound Rating: Class A standards		

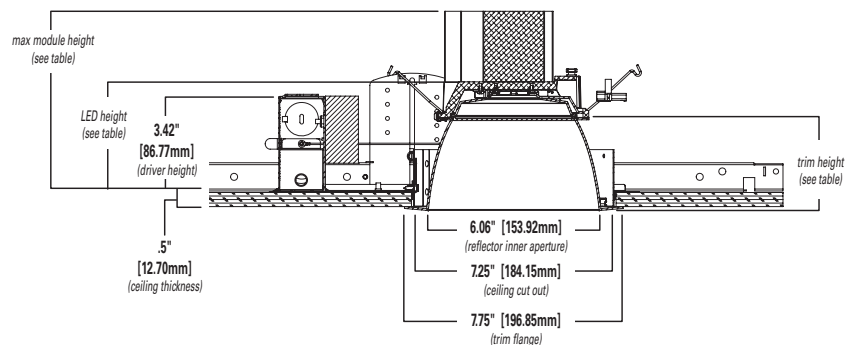
Series	3000 lumen	
Input Voltage (VAC)	120V	277V
Input Current (A)	0.228	0.102
Input Power (W)	27.2	27
In-rush Current (A)	0.898	1.7
In-rush Duration (ms)	0.36	0.38
THDi (%)	9.7	9.3
PF:	≥ 0.90	
(Nominal input 120-277VAC & 100% of rated output power)		
Minimum starting temperature -40°C (-40°F)		
Sound Rating: Class A standards		

Series	4000 lumen	
Input Voltage (VAC)	120V	277V
Input Current (A)	0.345	0.15
Input Power (W)	41.3	40.7
In-rush Current (A)	1.05	2.23
In-rush Duration (ms)	0.32	0.34
THDi (%)	10.06	14.01
PF:	≥ 0.90	
(Nominal input 120-277VAC & 100% of rated output power)		
Minimum starting temperature -40°C (-40°F)		
Sound Rating: Class A standards		

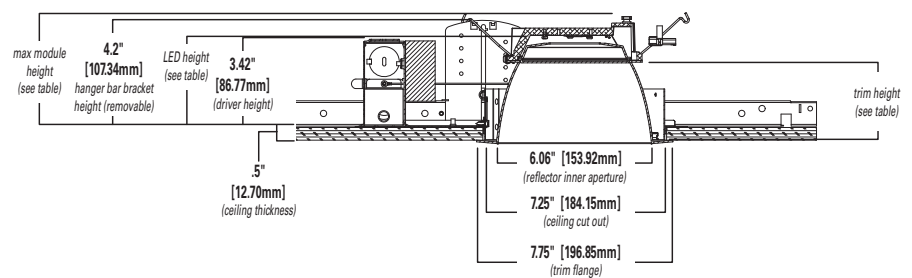
## DIMENSIONS



NEW CONSTRUCTION - HIGH LUMEN  
3000 AND 4000 LUMEN



NEW CONSTRUCTION - LOW LUMEN  
1000, 1500, AND 2000 LUMENS



High Lumen (3000 & 4000 Lumens)

Distribution	Max. Module Height	Trim Height	LED Height
Narrow	6.6"	3.4"	3.8"
Medium	6.7"	3.5"	3.9"
Wide	6.5"	3.3"	3.7"
Baffle	6.5"	3.3"	3.7"

Low Lumen (1000, 1500 & 2000 Lumens)\*

Distribution	Max. Module Height	Trim Height	LED Height
Narrow	4.5"	3.4"	3.8"
Medium	4.6"	3.5"	3.9"
Wide	4.4"	3.3"	3.7"
Baffle	4.4"	3.3"	3.7"

\*Max. height w/hanger bar bracket 4.2"



## Ordering Information

**Sample Number:** HC620D010REM7 – HM612835 - 61MDC

A complete luminaire consists of a housing frame, LED module, and reflector (ordered separately)

Mounting Frame	Lumens	Input / Control	Options	Accessories
<b>HC6</b> = 6" new construction and remodeler housing	<b>10</b> = 1000 lumens (nominal) <b>15</b> = 1500 lumens (nominal) <b>20</b> = 2000 lumens (nominal) <b>30</b> = 3000 lumens (nominal) <b>40</b> = 4000 lumens (nominal)	<b>D010</b> = 120-277VAC 50/60Hz 0-10V analog 1%-100% dimming <b>D010347</b> = 347VAC 50/60Hz 0-10V analog 1%-100% dimming (Canada only) <sup>1</sup>	<b>REM7</b> = 7 watt emergency module with remote test / indicator light, use with D010 only <sup>1</sup> <b>REM14</b> = 14 watt emergency module with remote test / indicator light, use with D010 only <sup>1</sup> <b>IEM7</b> = integral 7 watt emergency module with integral test / indicator light, use with D010 only <sup>1</sup> <b>IEM14</b> = integral 14 watt emergency module with integral test / indicator light, use with D010 only <sup>1</sup> <b>LWTPD1</b> = factory installed LumaWatt Pro wireless tile mount sensor kit, use with D010 only <sup>1</sup> <b>SWPD1</b> = factory installed WaveLinX tile mount daylight sensor, includes control module, sensor, and cable, use with D010 only <sup>1</sup>	<b>HB128APK</b> = L channel hanger bar, 26", pair (replacement) <b>RMB22</b> = Adjustable wood joist mounting bars, pair, extend to 22" long <b>H347</b> = 347 to 120V step down transformer, 75VA <b>H347200</b> = 347 to 120V step down transformer, 200VA <b>PORLWTPD1</b> = Field installed LumaWatt Pro wireless sensor kit, use with D010 only <sup>1</sup> <b>TMSWPD1</b> = Field installed WaveLinX wireless sensor kit, use with D010 only <sup>1</sup>
<b>HC6CP</b> = 6" new construction and remodeler housing, CCEA Chicago Plenum rated		<b>DLV</b> = Distributed Low Voltage driver, 1%-100% dimming DLV for use with Eaton's DLVP system only. Refer to DLVP low-voltage power module and DLVP specifications for details. <sup>1</sup>	<b>REM7</b> = 7 watt emergency module with remote test / indicator light, use with DLV only <sup>1, 2</sup> <b>REM14</b> = 14 watt emergency module with remote test / indicator light, use with DLV only <sup>1, 2</sup> <b>IEM7</b> = integral 7 watt emergency module with integral test / indicator light, use with DLV only <sup>1, 2</sup> <b>IEMV14</b> = integral 14 watt emergency module with integral test / indicator light, use with DLV only <sup>1, 2</sup>	

LED Module	Lumens	CRI/CCT
<b>HM6</b> = 6" LED module	<b>12</b> =1000, 1500 and 2000 lumens (nominal), use with HC610*, HC615*, HC620* housings <b>34</b> =3000 and 4000 lumens (nominal), use with HC630*, HC640* housings	<b>827</b> = 80 CRI (minimum), 2700K CCT <b>830</b> = 80 CRI (minimum), 3000K CCT <b>835</b> = 80 CRI (minimum), 3500K CCT <b>840</b> = 80 CRI (minimum), 4000K CCT <b>927</b> = 90 CRI (minimum), 2700K CCT <b>930</b> = 90 CRI (minimum), 3000K CCT <b>935</b> = 90 CRI (minimum), 3500K CCT <b>940</b> = 90 CRI (minimum), 4000K CCT

Reflector	Distribution <sup>3</sup>	Finish	Flange	Accessories
<b>61</b> = 6" conical reflector	<b>ND</b> = narrow 55° beam angle 0.97 SC <b>MD</b> = medium 60° beam angle 1.10 SC <b>WD</b> = wide 65° beam angle 1.28 SC <b>RWW</b> = rotatable wall wash with linear spread lens	<b>C</b> = Specular clear <b>H</b> = Semi-specular clear <b>W</b> = White (white flange)	<b>Blank</b> = Polished flange standard with C & H reflectors <b>Blank</b> = White flange standard with W reflector <b>WF</b> = White flange option available with C & H reflectors	<b>61RWWPK</b> = rotatable wall wash insert for 6" reflector –replacement part kit

Baffle	Distribution <sup>3</sup>	Finish	Flange	Accessories
<b>61</b> = 6" baffle reflector	<b>WD</b> = wide 65° beam angle 1.28 SC (nominal) <b>RWW</b> = rotatable wall wash with linear spread lens	<b>BB</b> = Black baffle (white flange) <b>WB</b> = White baffle (white flange)	<b>Blank</b> = White flange standard with BB, & WB	<b>61RWWPK</b> = rotatable wall wash insert for 6" reflector –replacement part kit

IEM Reflector	Distribution <sup>3</sup>	Finish	Flange	Integral Emergency
<b>61</b> = 6" IEM reflector for integral emergency only	<b>ND</b> = narrow 55° beam angle 0.97 SC <b>MD</b> = medium 60° beam angle 1.10 SC <b>WD</b> = wide 65° beam angle 1.28 SC	<b>C</b> = Specular clear <b>H</b> = Semi-specular clear <b>W</b> = White (white flange)	<b>Blank</b> = Polished flange standard with C & H reflectors <b>Blank</b> = White flange standard with W reflector <b>WF</b> = White flange option available with C & H reflectors	<b>IEM</b> = Reflector for integral emergency only

IEM Baffle	Distribution <sup>3</sup>	Finish	Flange	Integral Emergency
<b>61</b> = 6" IEM baffle reflector for integral emergency only	<b>WD</b> = wide 65° beam angle 1.28 SC (nominal)	<b>BB</b> = Black baffle (white flange) <b>WB</b> = White baffle (white flange)	<b>Blank</b> = White flange standard with BB, & WB	<b>IEM</b> = Reflector for integral emergency only

Reflector	Distribution <sup>3</sup>	Finish	Flange
<b>61PS</b> = 6" non-conductive polymer 'dead front' conical reflector <sup>4</sup>	<b>MD</b> = medium 60° beam angle 1.10 SC (nominal)	<b>W</b> = White (white flange)	<b>Blank</b> = White flange standard with W reflector

**Notes:**

- Not available with CP version
- ULus for U.S. only
- Values are nominal, with specular clear reflector, other finishes and field results may vary.
- 61PS reflector is for Non-IC environment only, and up to 3000 lumens only.



**PHOTOMETRY**

**NARROW DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K**

NARROW (55° BEAM*)		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT				CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE	
Test Number	P285970							Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance
Housing	HC620D010							0	1962	0-30	1385	72.1	45	8706
Module	HM612835							5	1962	0-40	1796	93.5		
Reflector	61NDC							15	1975	0-60	1915	99.7		
Lumens	1920 Lm							25	1434	0-90	1920	100		
Efficacy	96 Lm/W	35	671	90-180	0	0								
SC	0.97	45	112	0-180	1920	100	75	551						
UGR	11.7	55	13	85	0		85	0						
		65	3	90	0									
		75	3											
		85	0											
		90	0											

**MEDIUM DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K**

MEDIUM (60° BEAM*)		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT				CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE	
Test Number	P286170							Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance
Housing	HC620D010							0	1642	0-30	1387	70.8	45	9296
Module	HM612835							5	1660	0-40	1821	93		
Reflector	61MDC							15	1854	0-60	1951	99.6		
Lumens	1959 Lm							25	1576	0-90	1959	100		
Efficacy	97.9 Lm/W	35	699	90-180	0	0								
SC	1.10	45	120	0-180	1959	100	75	551						
UGR	11.8	55	15	85	0		85	0						
		65	5	90	0									
		75	3											
		85	0											
		90	0											

**WIDE DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K**

WIDE (65° BEAM*)		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT				CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE	
Test Number	P286370							Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance
Housing	HC620D010							0	1341	0-30	1282	62.7	45	15614
Module	HM612835							5	1349	0-40	1835	89.7		
Reflector	61WDC							15	1466	0-60	2037	99.6		
Lumens	2045 Lm							25	1642	0-90	2045	100		
Efficacy	102.3 Lm/W	35	877	90-180	0	0								
SC	1.28	45	201	0-180	2045	100	75	530						
UGR	11.6	55	28	85	0		85	0						
		65	5	90	0									
		75	2											
		85	0											
		90	0											

\*Value are nominal with specular clear reflectors, other finishes and field results may vary.  
SC = Spacing Criteria  
UGR = Unified Glare Rating

**Photometric Multipliers (nominal lumen values)**

1000 Lumen	1500 Lumen	2000 Lumen	3000 Lumen	4000 Lumen
0.52	0.72	1.00	1.44	2.02

Multipliers for relative lumen values with other series models.

**CCT Multipliers – 80CRI**

2700K	3000K	3500K	4000K
0.93	0.95	1.00	1.05

Multipliers for relative lumen values with other series color temperatures.

**Color Finish Multipliers**

Finish code	C	H	W/WB	BB
Finish	Specular Clear	Semi-Specular	Matte White White Baffle	Black Baffle
Multiplier	1.00	0.91	0.92	0.84

Multipliers for relative lumen values with other color finishes.

**CCT Multipliers – 90CRI**

2700K	3000K	3500K	4000K
0.75	0.82	0.90	0.89

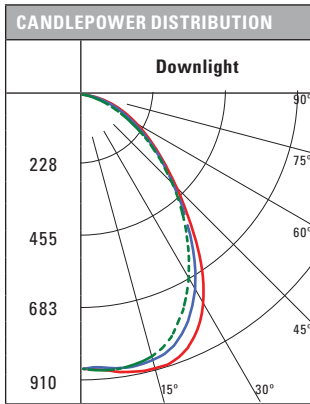
Multipliers for relative lumen values with other series color temperatures.



**PHOTOMETRY**

**WALL WASH DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K**

WALL WASH	
Test Number	P286650
Housing	HC620D010
Module	HM612835
Reflector	61RWWC
Lumens	1798 Lm
Efficacy	89.9 Lm/W
SC	1.23



CANDELA TABLE	
Degrees Vertical	Candela
0	882
5	890
15	910
25	854
35	665
45	431
55	270
65	161
75	74
85	10
90	0

ZONAL LUMEN SUMMARY		
Zone	Lumens	% Fixture
0-30	696	38.7
0-40	1079	60
0-60	1629	90.6
0-90	1798	100
90-180	0	0
0-180	1798	100

LUMINANCE	
Average Candela Degrees	Average 0° Luminance
45	33399
55	25825
65	20832
75	15653
85	6416

SC = Spacing Criteria, nominal for specular clear reflector, other finishes and field results may vary.

SINGLE UNIT FOOTCANDLES							
2.5' from wall (distance from fixture along wall)							
1	16.8	12	5.4	2	0.7	0.2	0.1
2	24.7	19.2	10.5	4.9	2.2	1	0.5
3	22.8	18.6	11.4	6.2	3.2	1.7	0.9
4	17.5	15	10.3	6.2	3.6	2	1.2
5	11.9	10.7	8.2	5.5	3.4	2.1	1.3
6	8	7.4	6.1	4.5	3.1	2	1.3
7	5.5	5.2	4.5	3.6	2.6	1.9	1.3
8	3.9	3.7	3.3	2.8	2.2	1.6	1.2
9	2.8	2.7	2.5	2.2	1.8	1.4	1.1
10	2.1	2	1.9	1.7	1.5	1.2	0.9

MULTIPLE UNIT FOOTCANDLES								
2.5' from wall (distance from fixture along wall)			2.5' from wall (distance from fixture along wall)					
3			4					
1	18.8	16.6	18.8	17.5	10.7	17.5		
2	29.5	29.2	29.5	26.8	20.9	26.8		
3	29	29.8	29	26	22.9	26		
4	23.7	25.3	23.7	21	20.5	21		
5	17.4	19.2	17.4	15.4	16.3	15.4		
6	12.5	13.7	12.5	11.1	12.2	11.1		
7	9.1	9.8	9.1	8.1	9	8.1		
8	6.7	7.1	6.7	6.1	6.7	6.1		
9	5	5.3	5	4.6	5	4.6		
10	3.8	4	3.8	3.5	3.8	3.5		

**Photometric Multipliers (nominal lumen values)**

1000 Lumen	1500 Lumen	2000 Lumen	3000 Lumen	4000 Lumen
0.52	0.72	1.00	1.44	2.02

Multipliers for relative lumen values with other series models.

**Color Finish Multipliers**

Finish code	C	H	W/WB	BB
Finish	Specular Clear	Semi-Specular	Matte White White Baffle	Black Baffle
Multiplier	1.00	0.91	0.92	0.84

Multipliers for relative lumen values with other color finishes.

**CCT Multipliers – 80CRI**

2700K	3000K	3500K	4000K
0.93	0.95	1.00	1.05

Multipliers for relative lumen values with other series color temperatures.

**CCT Multipliers – 90CRI**

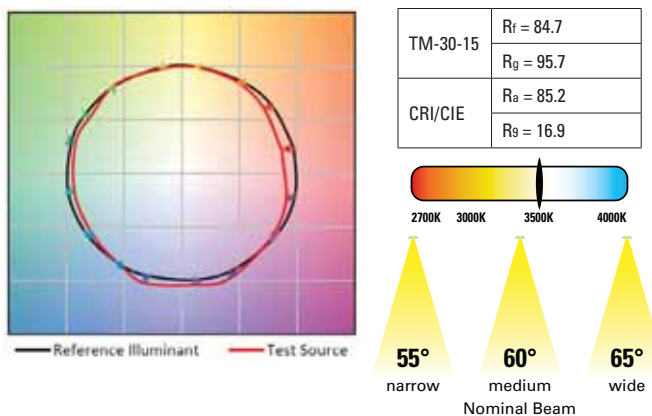
2700K	3000K	3500K	4000K
0.75	0.82	0.90	0.89

Multipliers for relative lumen values with other series color temperatures.

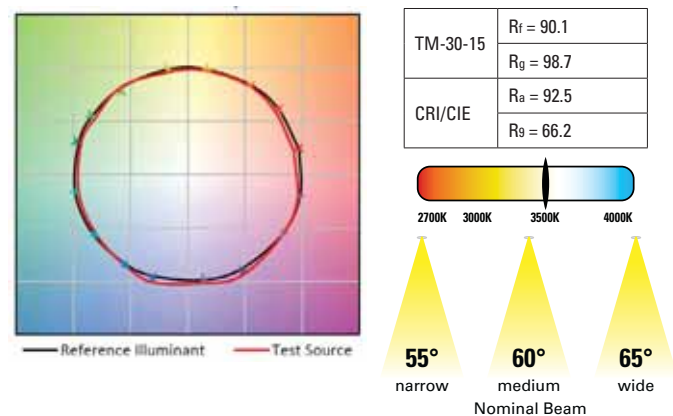
**COLOR METRICS**

**TM-30-15 & CRI/CIE (3500K)**

**80 CRI Color Metric Summary - 3500K\***



**90 CRI Color Metric Summary - 3500K\***





## DESCRIPTION

The Lumark Axcent LED wall mount luminaire provides a flush-mounted, architectural design with high performing, energy-efficient illumination resulting in up to 95% energy and maintenance savings over traditional sources. The die-cast aluminum construction along with stainless steel hardware, gasketed housing, and sealed optical compartment make the Axcent impervious to contaminants. The Axcent replaces 70W to 450W metal halide equivalents making it ideal for pathway illumination, building entrances, vehicle ramps, schools, tunnels, stairways, loading docks and floodlighting applications.

## SPECIFICATION FEATURES

**Construction**

Low-profile LED design with rugged die-cast aluminum housing. Matching housing styles incorporate both a full cutoff and refractive lens design. External fin design on the back of the fixture extracts heat from the surface resulting in a thermally optimize design for longer luminaire life. One-piece silicone gasket seals the fixture, keeping out moisture and dusts in compliance with IP66 rating. The fixture is 3G vibration rated (ANSI C136.31) and UL/cUL listed ensuring reliability and durability in wall mount applications.

**Optical**

Silicone-sealed optical LED chamber incorporates a custom engineered reflector providing high-efficiency illumination. Refractive lens models incorporate a molded lens assembly designed for maximum forward throw. Optional glare free lens is available for visual comfort at reduced lumen values. Available in Type IV distribution with lumen packages ranging from 1,800 to 17,300 nominal lumens. Light engine configurations consist of high-efficiency, discrete LEDs mounted to metal-core circuit boards to maximize heat

dissipation and promote long life. Offered in standard 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 5000K CCT / 70CRI min and 3000K / 80CRI min are available.

**Electrical**

LED driver is mounted to the die-cast aluminum housing for optimal heat sinking. Integral LED electronic driver incorporates 6kV surge protection. Class 1 electronic drivers have a power factor >90% and THD<20%. 120-277V 50/60Hz standard operation with optional 347V 60Hz or 480V 60Hz options available. 480V is compatible for use with 480V Wye systems only. 0-10V dimming driver is standard with leads external to the fixture to accommodate controls capability such a dimming and occupancy. 10kV/10kA surge protection option is available.

**Mounting**

Steel wedge mounting plate fits directly to 4" standard j-box or directly to wall with the "Hook-N-Lock" mechanism for quick installation. Secure with two captive, corrosion resistant, stainless steel set screws, which are concealed but accessible from bottom of fixture. Optional floodlight kits available in slipfitter,

Catalog #	AXCL6A	Type
Project	HEB	X5/X6
Comments		Date
Prepared by		

knuckle and trunion mount configurations. Optional pole mount configuration provides a quick-mount solution to round and square poles. The easy installation arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8".

**Emergency Egress**

Optional integral cold weather battery emergency egress includes emergency operation test switch, an AC-ON indicator light and a premium, maintenance-free battery pack. The separate emergency lighting LEDs are wired to provided redundant emergency lighting. Listed to UL Standard 924, Emergency Lighting.

**Finish**

The Axcent is protected with five state super TGIC polyester powder coat paint in carbon bronze and five other color finishes. Super TGIC power coat paint finishes withstand extreme climate conditions while providing optimal color and gloss retention of the installed life.

**Warranty**

Five-year warranty.



## AXCS / AXCL AXCENT

14-123W  
LED

APPLICATIONS:  
WALL / SURFACE / INVERTED  
FLOODLIGHTING / PATHWAY /  
SITE LIGHTING

**CERTIFICATION DATA**

3G Vibration Rated  
DesignLights Consortium® Qualified\*  
FCC Class A  
IP66 Rated  
ISO9001, UL/cUL Wet Location Listed  
LM79/LM80 Compliant  
ROHS Compliant  
Title 24 Compliant  
UL924 Listed (CBP Models)

**TECHNICAL DATA**

-40°C Minimum Ambient Temperature  
+40°C Maximum Ambient Temperature  
External Supply Wiring 90°C Minimum

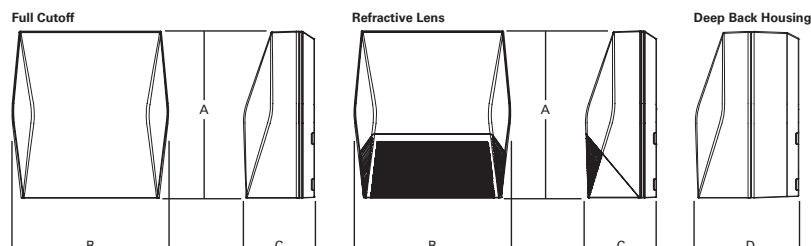
**SHIPPING DATA:**

**Approximate Net Weight:**  
Small fixture=5 lbs. [2.36 kgs.]  
Small with sensor or CBP=10 lbs. [4.40 kgs.]  
Large fixture=12 lbs. [5.45 kgs.]  
Large with sensor or CBP=17 lbs. [7.73 kgs.]  
Large with sensor & CBP=21 lbs. [9.54 kgs.]



TD514036EN  
September 25, 2019 8:03 AM

## DIMENSIONS



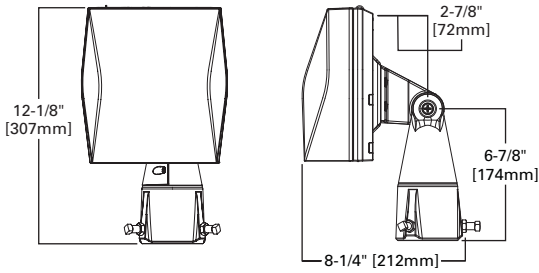
## Dimensional Data

	AXCS Small	AXCL Large
A	8" [202mm]	11-1/2" [292mm]
B	7-1/2" [190mm]	10-3/4" [273mm]
C	3-5/8" [94mm]	4-7/8" [124mm]
D	6-1/8" [155mm]	7-1/8" [181mm]

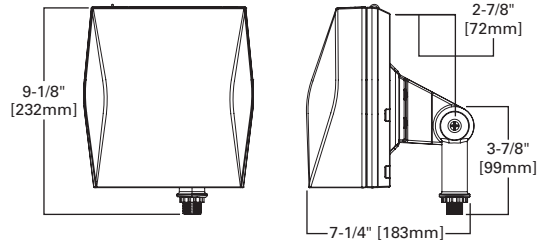


**MOUNTING OPTIONS**

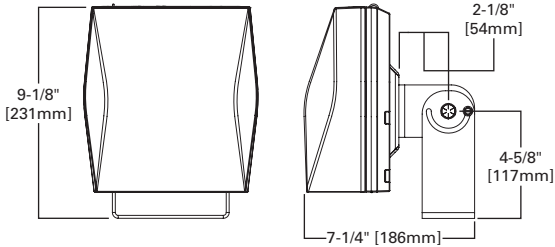
**Slipfitter Mount (Small)**  
 Tenon OD: 2-3/8" | EPA: 0.60



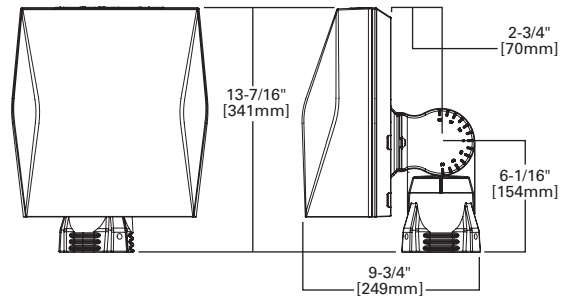
**Knuckle Mount (Small)**



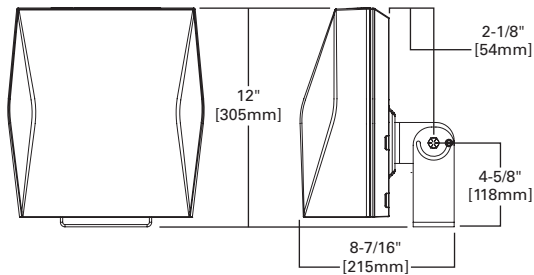
**Trunnion Mount (Small)**



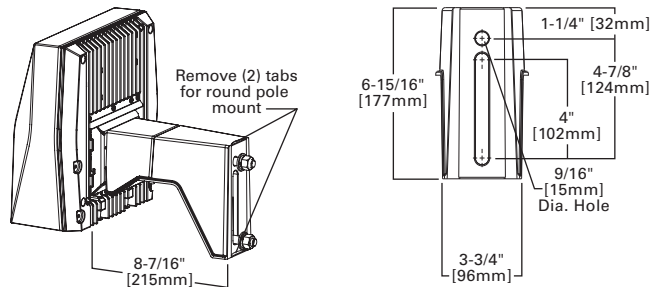
**Slipfitter Mount (Large)**  
 Tenon OD: 2-3/8" to 2-7/8" | EPA: 1.10



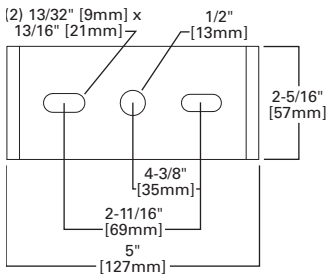
**Trunnion Mount (Large)**



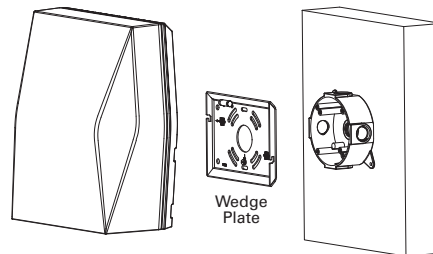
**Pole Mount Arm (Shown with Large fixture) Drill Pattern**  
 EPA: 1.1



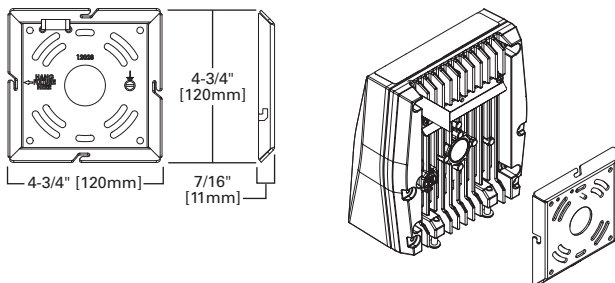
**Trunnion Mount Detail**



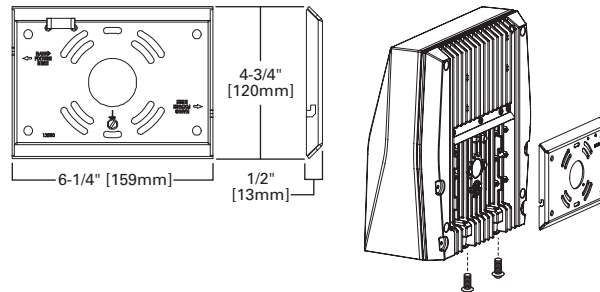
**Through-branch Wiring** (Available through rated junction box - supplied by others)



**Wall Mount Plate Detail (Small)**



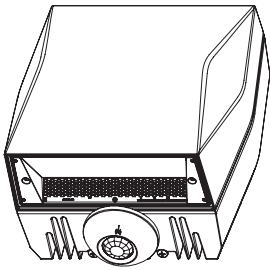
**Wall Mount Plate Detail (Large)**



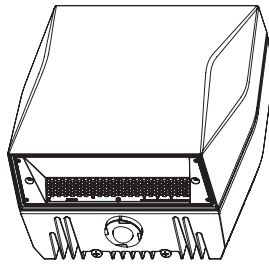


**CONTROL OPTIONS**

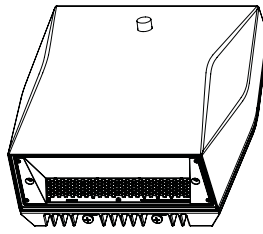
**LumaWatt Pro Sensor**



**Occupancy Sensor**

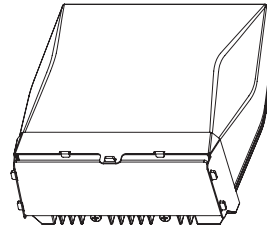


**Button Photocontrol**

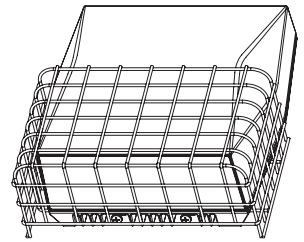


**VANDAL SHIELD AND WIRE GUARD OPTIONS**

**Vandal Shield**



**Wire Guard**



**CONTROL OPTIONS**

**0-10V**

This fixture is offered standard with 0-10V dimming driver(s) for use with a lighting control panel or other control method.

**Photocontrol (PC1, PC2, and PC)**

Optional button-type photocontrol provides a flexible solution to enable “dusk-to-dawn” lighting by sensing light levels.

**After Hours Dim (AHD)**

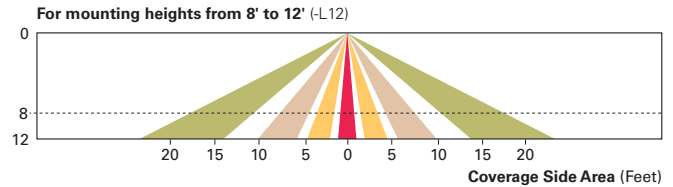
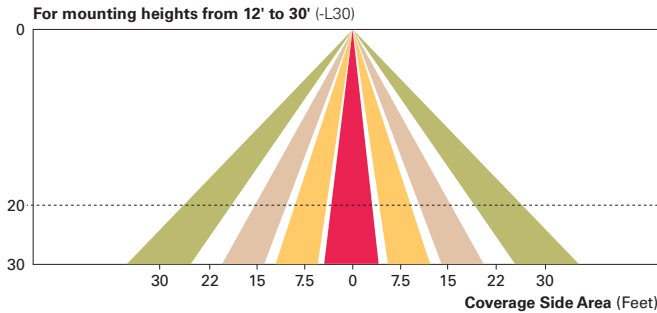
This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a “dusk-to-dawn” period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

**Dimming Occupancy Sensor (MSP/DIM-LXX and MSP-LXX)**

These sensors are factory installed in the luminaire housing. When the MSP/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MSP/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MSP-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity.

These occupancy sensors includes an integrated photocell that can be activated with the ISHH-01 accessory for “dusk-to-dawn” control or daylight harvesting - the factory preset is OFF. The ISHH-01 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters.

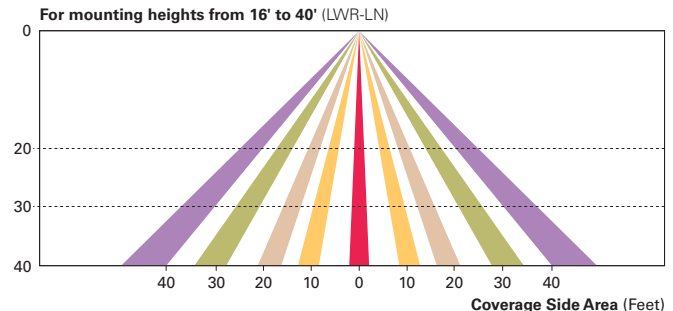
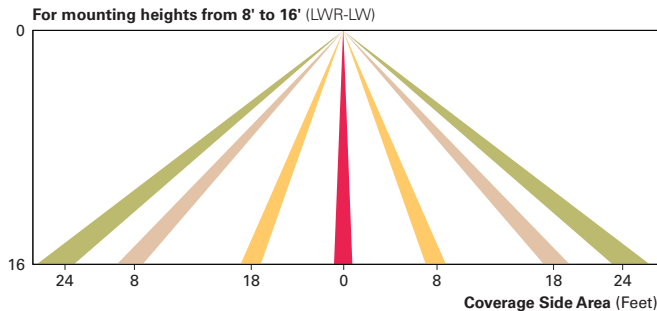
A variety of sensor lens are available to optimize the coverage pattern for mounting heights from 8’-30’.



**LumaWatt Pro Wireless Control and Monitoring System (LWR-LW and LWR-LN)**

The LumaWatt Pro system is a peer-to-peer wireless network of luminaire-integral sensors for any sized project. Each sensor is capable of motion and photo sensing, metering power consumption and wireless communication. The end-user can securely create and manage sensor profiles with browser-based management software. The software will automatically broadcast to the sensors via wireless gateways for zone-based and individual luminaire control. The LumaWatt Pro software provides smart building solutions by utilizing the sensor to provide easy-to-use dashboard and analytic capabilities such as improved energy savings, traffic flow analysis, building management software integration and more.

For additional details, refer to the LumaWatt Pro product guides.





**POWER AND LUMENS (AXCENT SMALL)**

Light Engine		AXCS1A	AXCS2A	AXCS3A	AXCS4A	AXCS5A
Power (Watts)		14	21	27	44	52
Input Current @ 120V (A)		0.12	0.18	0.23	0.37	0.43
Input Current @ 240V (A)		0.06	0.09	0.11	0.18	0.22
Input Current @ 277V (A)		0.05	0.08	0.10	0.16	0.19
Input Current @ 347V (A)		0.04	0.06	0.08	0.13	0.15
Input Current @ 480V (A)		0.03	0.04	0.06	0.09	0.11
<b>Configuration</b>						
Full Cutoff	4000K/5000K Lumens	1,806	2,561	3,537	5,520	6,300
	3000K Lumens	1,526	2,164	2,989	4,665	5,324
	BUG Rating	B1-U0-G0	B1-U0-G0	B1-U0-G0	B2-U0-G1	B2-U0-G1
Refractive Lens	4000K/5000K Lumens	1,915	2,716	3,704	5,858	6,699
	3000K Lumens	1,618	2,295	3,130	4,950	5,661
	BUG Rating	B1-U3-G2	B1-U3-G2	B1-U3-G2	B1-U4-G3	B1-U4-G3

**LUMEN MAINTENANCE (AXCENT SMALL)**

Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)	Theoretical L70 (72,000 Hours)
<b>Up to 3A</b>		
25°C	90%	246,000
40°C	90%	225,000
50°C	89%	195,000
<b>Up to 5A</b>		
25°C	89%	240,000
40°C	88%	223,000
50°C	87%	186,000

**POWER AND LUMENS (AXCENT LARGE)**

Light Engine		AXCL6A	AXCL8A	AXCL10A	AXCL12A
Power (Watts)		56	72	102	123
Input Current @ 120V (A)		0.44	0.60	0.83	1.01
Input Current @ 240V (A)		0.22	0.31	0.41	0.51
Input Current @ 277V (A)		0.20	0.27	0.36	0.45
Input Current @ 347V (A)		0.17	0.22	0.30	0.37
Input Current @ 480V (A)		0.13	0.16	0.22	0.27
<b>Configuration</b>					
Full Cutoff	4000K Lumens	7,594	9,696	13,283	16,823
	5000K Rating	7,465	9,531	13,058	16,538
	3000K Lumens	6,619	8,450	11,577	14,662
	BUG Rating	B1-U0-G1	B1-U0-G1	B3-U0-G2	B3-U0-G2
Refractive Lens	4000K Lumens	7,809	9,970	13,641	17,346
	5000K Rating	7,689	9,817	13,450	17,034
	3000K Lumens	6,817	8,704	11,924	15,102
	BUG Rating	B1-U4-G4	B2-U5-G5	B2-U5-G5	B2-U5-G5

**LUMEN MAINTENANCE (AXCENT LARGE)**

Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)	Theoretical L70 (72,000 Hours)
<b>Up to 8A</b>		
25°C	94%	556,000
40°C	94%	556,000
50°C	92%	340,000
<b>Up to 10A</b>		
25°C	94%	556,000
40°C	94%	478,000
50°C	87%	207,000
<b>Up to 12A</b>		
25°C	94%	151,000
40°C	81%	125,000

**LUMEN MULTIPLIER**

Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.97

**POWER AND LUMENS (SMALL + CBP)**

Light Engine		AXCS1A	AXCS2A	AXCS3A	AXCS4A
Power (Watts)		18	25	31	48
Input Current @ 120V (A)		0.15	0.21	0.26	0.40
Input Current @ 240V (A)		0.08	0.11	0.13	0.20
Input Current @ 277V (A)		0.07	0.09	0.11	0.18
<b>Configuration</b>					
Full Cutoff	4000K/5000K Lumens	629	587	647	570
	3000K Lumens	531	496	547	482
Refractive Lens	4000K/5000K Lumens	667	623	686	605
	3000K Lumens	563	526	580	511

Note: Power and current based on full power consumption while CBP is charging. Lumen outputs are while operating in emergency mode only.

**POWER AND LUMENS (LARGE + CBP)**

Light Engine		AXCL6A	AXCL8A	AXCL10A
Power (Watts)		81	97	127
Input Current @ 120V (A)		0.65	0.81	1.04
Input Current @ 240V (A)		0.33	0.41	0.52
Input Current @ 277V (A)		0.29	0.36	0.45
<b>Configuration</b>				
Full Cutoff	4000K/5000K Lumens	1,340		
	3000K Lumens	1,168		
Refractive Lens	4000K/5000K Lumens	1,380		
	3000K Lumens	1,203		

Note: Power and current based on full power consumption while CBP is charging. Lumen outputs are while operating in emergency mode only.



**ORDERING INFORMATION**

Sample Number: AXCS1A-AP-347V

Model Series <sup>1</sup>	LED Color Temperature	Color	Options (Add as Suffix)
<b>Full Cutoff</b> AXCS1A=14W AXCS2A=21W AXCS3A=27W AXCS4A=44W AXCS5A=52W AXCL6A=56W AXCL8A=72W AXCL10A=102W AXCL12A=123W  <b>Refractive Lens</b> AXCS1ARL=14W AXCS2ARL=21W AXCS3ARL=27W AXCS4ARL=44W AXCS5ARL=52W AXCL6ARL=56W AXCL8ARL=72W AXCL10ARL=102W AXCL12ARL=123W	[Blank]=4000K, Neutral C=5000K, Cool W=3000K, Warm	[Blank]=Carbon Bronze (Standard) WT=Summit White BK=Black AP=Grey GM=Graphite Metallic DP=Dark Platinum	347V=347V <sup>2</sup> 480V=480V <sup>2</sup> PC1=Photocontrol 120V <sup>3,4,5</sup> PC2=Photocontrol 208-277V, 347V, 480V <sup>4,5,6</sup> PC=Photocontrol 120-277V, 347V, 480V <sup>4,7,8</sup> KKIT=Knuckle Floodlight Mount <sup>7</sup> TRNKIT=Trunnion Floodlight Mount SFKIT=Slipfitter Floodlight Mount PMAKIT=Pole Mount Arm LWR-LW=LumaWatt Pro Wireless Sensor, Wide Lens for 8' - 16' Mounting Height <sup>4,9</sup> LWR-LN=LumaWatt Pro Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height <sup>4,9</sup> MSP/DIM-L12=Integrated Sensor for Dimming Operation, 8' - 12' Mounting Height <sup>4,9,10</sup> MSP/DIM-L30=Integrated Sensor for Dimming Operation, 12' - 30' Mounting Height <sup>4,9,10</sup> MSP-L12=Integrated Sensor for ON/OFF Operation, 8' - 12' Mounting Height <sup>4,9,10</sup> MSP-L30=Integrated Sensor for ON/OFF Operation, 12' - 30' Mounting Height <sup>4,9,10</sup> CBP=Cold Weather Battery Pack <sup>3,11,12,13,14,15</sup> 10K=10kV/10kA Surge Protection HA=50°C High Ambient <sup>12,16</sup> GRF=Glare Reducing Lens <sup>17</sup> AHD145=After Hours Dim, 5 Hours <sup>5,18</sup> AHD245=After Hours Dim, 6 Hours <sup>5,18</sup> AHD255=After Hours Dim, 7 Hours <sup>5,18</sup> AHD355=After Hours Dim, 8 Hours <sup>5,18</sup>

**Accessories (Order Separately) <sup>19</sup>**

VS/AXCS=Vandal Shield Axcent Small <sup>7,20</sup>  
 VS/AXCS-MS=Vandal Shield Axcent Small (With Motion Sensor) <sup>7,20</sup>  
 WG/AXCS=Wire Guard Axcent Small <sup>7</sup>  
 WG/AXCS-MS=Wire Guard Axcent Small (With Motion Sensor) <sup>7</sup>  
 VS/AXCL=Vandal Shield Axcent Large <sup>5,20</sup>  
 VS/AXCL-MS=Vandal Shield Axcent (With Motion Sensor) <sup>5,20</sup>  
 WG/AXCL=Wire Guard Axcent Large <sup>5</sup>  
 WG/AXCL-MS=Wire Guard Axcent (With Motion Sensor) <sup>5</sup>  
 KKIT/AXCS-XX=Knuckle and Visor Floodlight Kit (For Axcent Small) <sup>7</sup>  
 SFKIT/AXCS-XX=Slipfitter Floodlight Kit (For Axcent Small) <sup>7</sup>  
 TRNKIT/AXCS-XX=Trunnion and Visor Floodlight Kit (For Axcent Small) <sup>7</sup>  
 TRNKIT-XX=Trunnion Floodlight Kit (For Axcent Large) <sup>5</sup>  
 SFKIT-XX=Slipfitter Floodlight Kit (For Axcent Large) <sup>5</sup>  
 PMAKIT-XX=Pole Mount Kit  
 ISHH-01=Integrated Sensor Programming Remote <sup>21</sup>  
 MA1010-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon  
 MA1011-XX=2 @ 180° Tenon Adapter for 3-1/2" O.D. Tenon  
 MA1017-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon  
 MA1018-XX=2 @ 180° Tenon Adapter for 2-3/8" O.D. Tenon

- NOTES:**
- DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
  - Transformer used only when ordered with motion sensor or AXCS1 through AXCS5 or AXCL6 fixture wattages.
  - Not available in 347 or 480 VAC.
  - Button photocontrol and any motion sensor not offered together.
  - Only available on AXCL6-AXCL12 models.
  - Used with 277, 347, and 480 VAC options.
  - Only available on AXCS1-AXCS5 models.
  - This configuration may contain materials that are not RoHS compliant. Contact your lighting representative for more information.
  - Uses deep back housing.
  - The ISHH-01 accessory is required to adjust parameters.
  - Ambient operating temperature -20°C to 25°C for AXCL6 through AXCL10. Ambient operating temperature -20°C to 30°C on AXCS4 models. Ambient operating temperature -20°C to 40°C on AXCS1 through AXCS3 models.
  - Not available with AXCS5 or AXCL12 models.
  - Uses deep back housing for AXCS1, AXCL2, AXCS3, and AXCS4 models.
  - Not to be mounted in upwards / inverted orientation. Downlight wall mount only for AXCS1 through AXCS4.
  - In AXCS1, AXCS2, AXCS3, and AXCS4 models, CBP cannot be used with any sensor option (PC, MSP, LWR).
  - Can not be ordered with CBP or PC options.
  - Use dedicated IES files on product website for lumen values and distributions.
  - Requires the use of PC1 or PC2 button photocontrol. See After Hours Dim supplemental guide for additional information.
  - Replace XX with color designation.
  - For use with full cutoff lens configurations only.
  - This tool enables adjustment to parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult you lighting representative at Eaton for more information.

**STOCK ORDERING INFORMATION**

Model Series <sup>1</sup>			
Full Cutoff		Refractive Lens	
AXCS1A=14W	AXCL10A=102W	AXCS1ARL=14W	AXCL10ARL=102W
AXCS2A=21W	AXCL12A=123W	AXCS2ARL=21W	AXCL12ARL=123W
AXCS3A=27W	AXCL6A-347V=56W	AXCS3ARL=27W	AXCL6ARL-347V=56W
AXCS4A=44W	AXCL8A-347V=72W	AXCS4ARL=44W	AXCL8ARL-347V=72W
AXCS5A=52W	AXCL10A-347V=102W	AXCS5ARL=52W	AXCL10ARL-347V=102W
AXCL6A=56W	AXCL12A-347V=123W	AXCL6ARL=56W	AXCL12ARL-347V=123W
AXCL8A=72W		AXCL8ARL=72W	

- NOTES:**
- All stock configurations are 4000K color temperatures, standard Carbon Bronze finish, and wall mount configuration.



**Eaton**  
 1121 Highway 74 South  
 Peachtree City, GA 30269  
 P: 770-486-4800  
 www.eaton.com/lighting

Specifications and  
 dimensions subject to  
 change without notice.