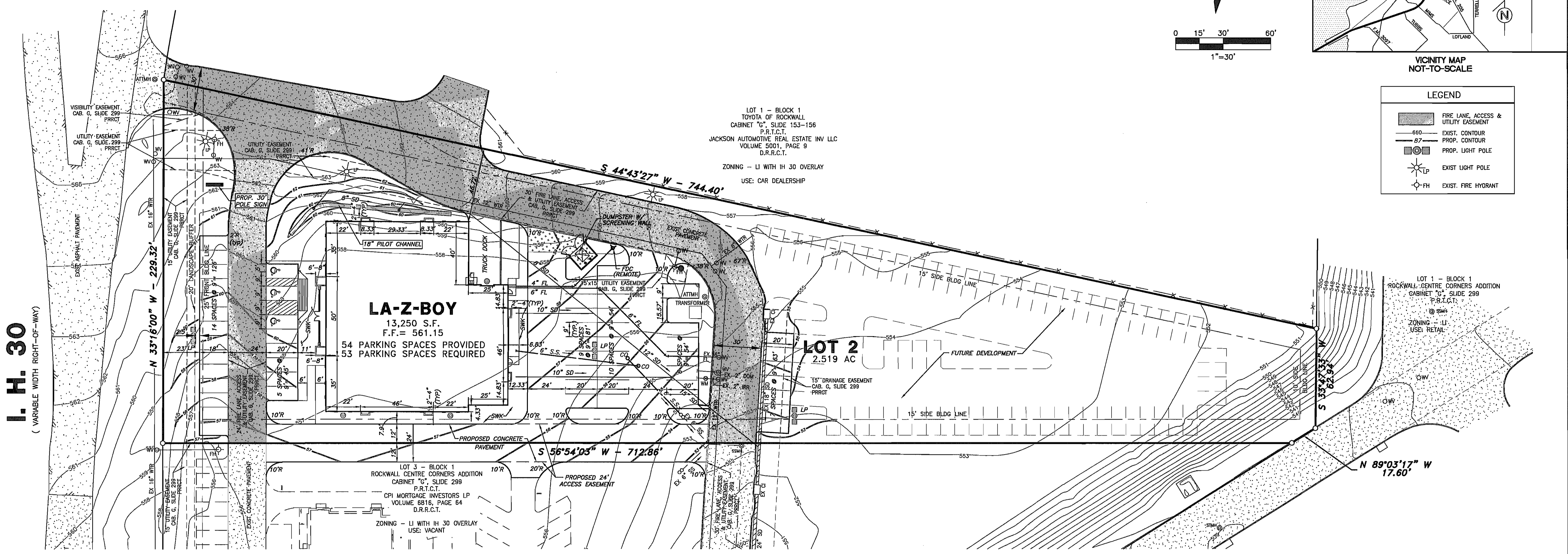


VICINITY MAP  
NOT-TO-SCALE

**LEGEND**

	FIRE LANE, ACCESS & UTILITY EASEMENT
	EXIST. CONTOUR
	PROP. CONTOUR
	PROP. LIGHT POLE
	EXIST. LIGHT POLE
	EXIST. FIRE HYDRANT



LOT 1 - BLOCK 1  
TOYOTA OF ROCKWALL  
CABINET "G", SLIDE 153-156  
P.R.T.C.T.  
JACKSON AUTOMOTIVE REAL ESTATE INV LLC  
VOLUME 5001, PAGE 9  
D.R.R.C.T.  
ZONING - LI WITH IH 30 OVERLAY  
USE: CAR DEALERSHIP

**LA-Z-BOY**  
13,250 S.F.  
F.F. = 561.15  
54 PARKING SPACES PROVIDED  
53 PARKING SPACES REQUIRED

**LOT 2**  
2.519 AC

LOT 3 - BLOCK 1  
ROCKWALL CENTRE CORNERS ADDITION  
CABINET "G", SLIDE 299  
P.R.T.C.T.  
CPI MORTGAGE INVESTORS LP  
VOLUME 6816, PAGE 64  
D.R.R.C.T.  
ZONING - LI WITH IH 30 OVERLAY  
USE: VACANT

SITE DATA	LOT 2, BLOCK 1
ZONING:	LIC WITH IH-30 OVERLAY
PROPOSED USE:	RETAIL
LOT AREA:	2.519 AC. (109,712 SF)
BUILDING AREA:	13,250 SF
BUILDING TYPE:	IIB
BUILDING HEIGHT:	33'-6"
# STORIES:	1
LOT COVERAGE:	12.08%
FLOOR AREA RATIO:	0.121:1
FRONT BUILDING SETBACK:	25'
PARKING REQUIRED:	53 SPACES
HANDICAP PARKING REQUIRED:	3 SPACES
PARKING PROVIDED:	54 SPACES
LANDSCAPE REQUIRED:	16,456 SF
LANDSCAPE PROVIDED:	20,414 SF*
IMPERVIOUS AREA:	55,162 S.F. (0.503:1)

\*DOES NOT INCLUDE FUTURE DEV. AREA

- GENERAL NOTES:**
- ANY REVISION TO THIS PLAN WILL REQUIRE CITY APPROVAL AND WILL REQUIRE REVISIONS TO ANY CORESPONDING PLANS TO AVOID CONFLICTS BETWEEN PLANS.
  - OPEN STORAGE, WHERE PERMITTED, SHALL BE SCREENED IN ACCORDANCE WITH THE COMPREHENSIVE ZONING ORDINANCE.
  - BUILDINGS OF 5,000 SQUARE FEET OR GREATER SHALL BE 100% FIRE SPRINKLED. ALTERNATIVE FIRE PROTECTION MEASURES MAY BE APPROVED BY THE FIRE DEPARTMENT.
  - ALL SIGNAGE IS SUBJECT TO BUILDING INSPECTION DIVISION APPROVAL.
  - ALL FENCES AND RETAINING WALLS SHALL BE SHOWN ON THE SITE PLAN AND ARE SUBJECT TO BUILDING INSPECTION DIVISION APPROVAL.

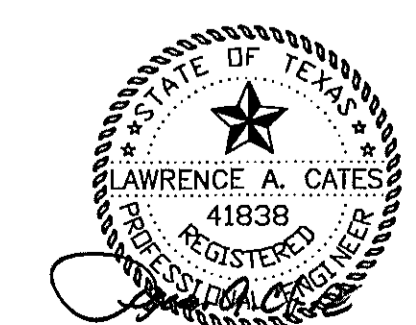
- BENCHMARKS:**
- AT & T MANHOLE LOCATED AT 5.5 FEET FROM THE NORTH CORNER OF LOT 2 IN THE RIGHT OF WAY OF INTERSTATE HIGHWAY NO. 30. ELEVATION = 565.20'
  - WATER VALVE LOCATED 5.7 FEET FROM THE WEST CORNER OF LOT 2 IN THE RIGHT OF WAY OF INTERSTATE HIGHWAY NO. 30. ELEVATION = 559.42'

**OWNER:**  
LEBCO INDUSTRIES, L.P.  
10676 KING WILLIAMS  
DALLAS, TEXAS 75220  
PHONE: (214) 631-1813  
CONTACT: LEW BROWN

**ENGINEER/SURVEYOR**  
CATES - CLARK & ASSOC., LLP  
14800 QUORUM DRIVE, SUITE 200  
DALLAS, TEXAS 75254  
PHONE: (972) 385-2272  
CONTACT: LAWRENCE A. CATES, P.E., R.P.L.S.



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY LAWRENCE A. CATES, P.E. 41838 ON 07.01.13



REV	DATE	REMARKS

**SITE PLAN - SP2013-014**

LA-Z-BOY

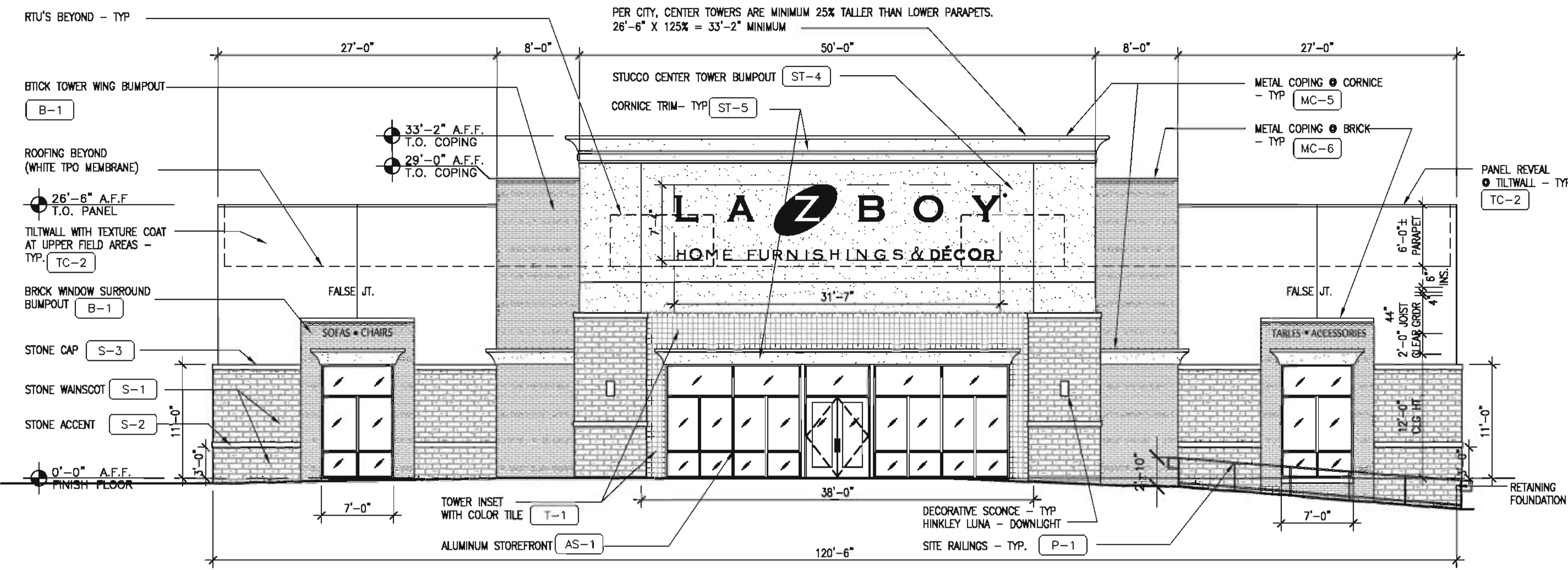
LOT 2, BLOCK 1, ROCKWALL CENTRE CORNERS ADDN.

THE CITY OF ROCKWALL, TEXAS

Cates - Clark & Associates, LLP  
14800 Quorum Drive, Suite 200  
Dallas, Texas 75254  
Office: 972-385-2272 Fax: 972-980-1627  
TXSPE-13751

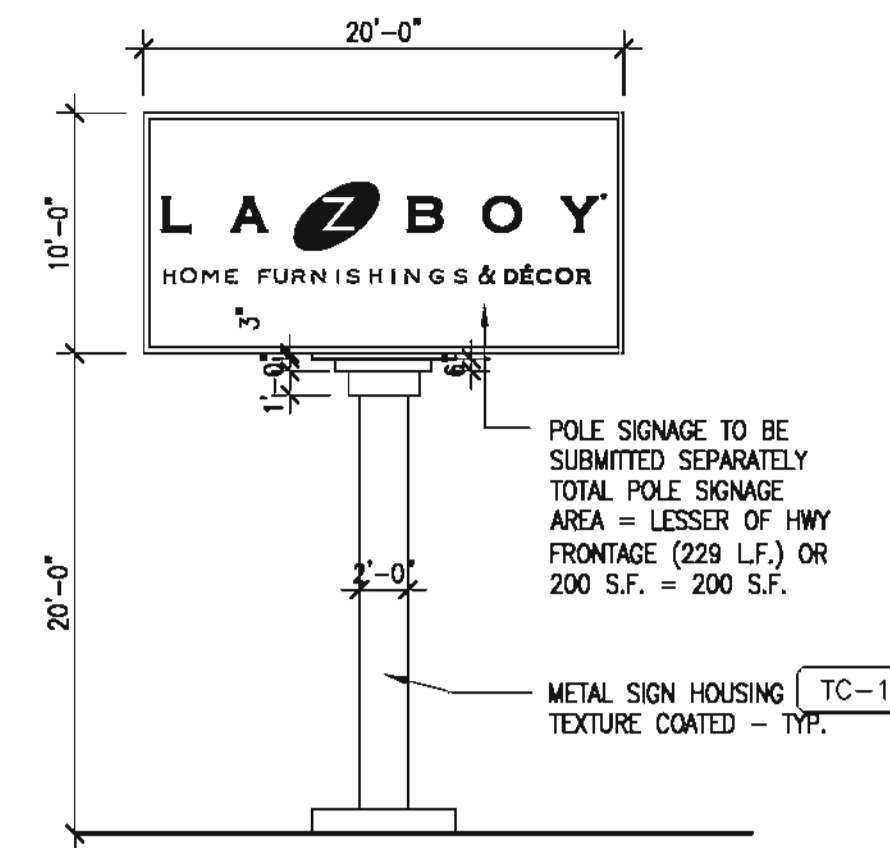
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
CCA	CCA	06.03.13	1"=30'	D.P.	128-001 SITE	C1.2





**01 FRONT (WEST) ELEVATION**  
SCALE: 1/8" = 1'-0"

TOTAL FACADE - 3635 S.F.  
TOTAL (MINUS WINDOWS/DOORS) - 3115 S.F.  
STONE 20% - 625 S.F.  
STUCCO 30% - 940 S.F.  
BRICK 19% - 600 S.F.  
TILE 6% - 175 S.F.  
TEXTURE COATED TILT WALL 25% - 775 S.F.



**05 POLE SIGN ELEVATION**  
SCALE: 1/8" = 1'-0"

**EXTERIOR MATERIAL LIST - ROCKWALL (NOT ALL MATERIALS USED)**

STUCCO	
ST-1	NOT USED
ST-2	NOT USED
ST-3	NOT USED
ST-4	MATCH DRYVIT - PURE CREAM - SANDPEBBLE FINE DPR LAZB - 23 - 1022 S07C74474
ST-5	MATCH DRYVIT - THE DARK SIDE - SANDPEBBLE DPR LAZB - 22 - 1022 75-191-2-1-2
ST-6	NOT USED

TEXTURE COAT / PAINT	
TC-1/P-1	MATCH DRYVIT - SPECTRUM BROWN - SANDPEBBLE FINE DPR LAZB - 20 - 1022 S1121880
TC-2/P-2	MATCH DRYVIT - MANOR WHITE - SANDPEBBLE FINE DPR LAZB - 19 - 1022 S12823936
TC-3/P-3	NOT USED
TC-4/P-4	NOT USED
TC-5/P-5	NOT USED
TC-6/P-6	NOT USED

ALUMINUM STOREFRONT	
AS-1	CLEAR ANODIZED ALUMINUM

BRICK	
B-1	YANKEE HILL - G3 SMOOTH FACE

TILE	
T-1	TRENWYTH - ASTRA GLAZE - SW - BIMINI BLUE

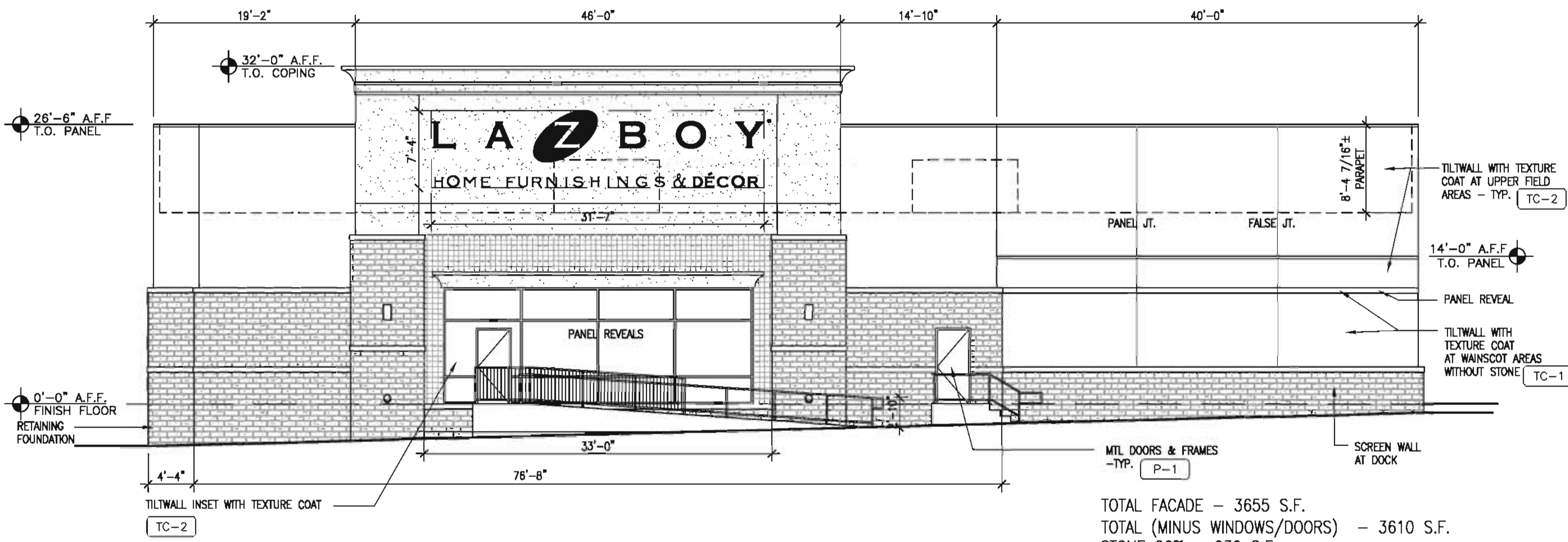
STONE WAINSCOT	
S-1	LUEDERS LIMESTONE - 40 SPLIT FACE / 60 ROUGHBACK - 6" COURSE - RANDOM LENGTH
S-2	LUEDERS LIMESTONE - SMOOTH - 6" COURSE - SAWN ALL SIDES - 18" LENGTH
S-3	LUEDERS LIMESTONE - SMOOTH - 6" COURSE - SAWN ALL SIDES - 18" LENGTH - CAP PIECE

METAL COPING	
MC-1	NOT USED
MC-2	NOT USED
MC-3	NOT USED
MC-4	NOT USED
MC-5	BERRIDGE - DARK BRONZE
MC-6	BERRIDGE - MEDIUM BRONZE

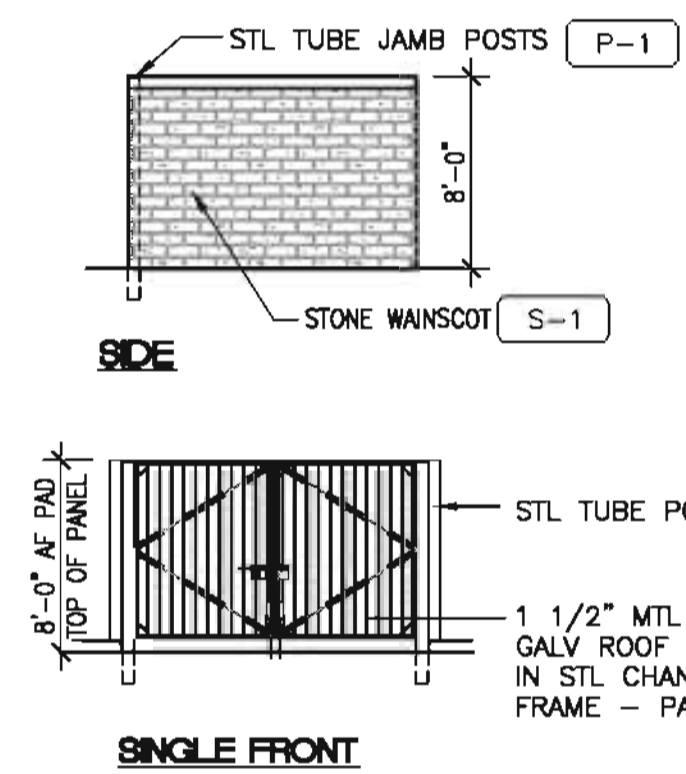
CAULK	
C-1	TREMCO - BEIGE
C-2	TREMCO - COTTON
C-3	MATCH DRYVIT - MANOR WHITE - SANDPEBBLE FINE DPR SONNEBORN - SKY BLUE 343 U
C-4	MATCH DRYVIT - BLUE BELL - SANDPEBBLE FINE DPR TREMCO - CHINA WHITE
C-5	MATCH DRYVIT - PURE CREAM - SANDPEBBLE FINE DPR TREMCO - DARK BRONZE
C-6	MATCH DRYVIT - THE DARK SIDE - SANDPEBBLE DPR TREMCO - DESERT TAUPE
C-7	MATCH DRYVIT - MATCHES BENJAMIN MOORE 1000 - SANDPEBBLE DPR



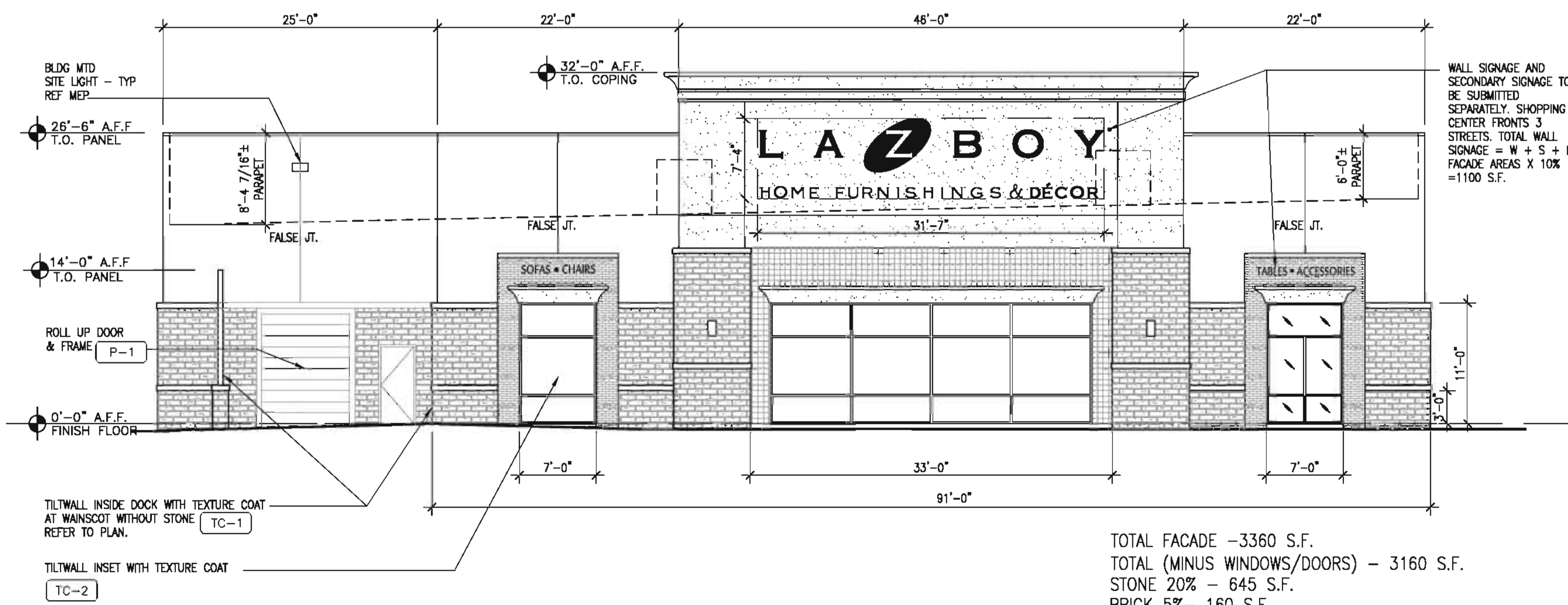
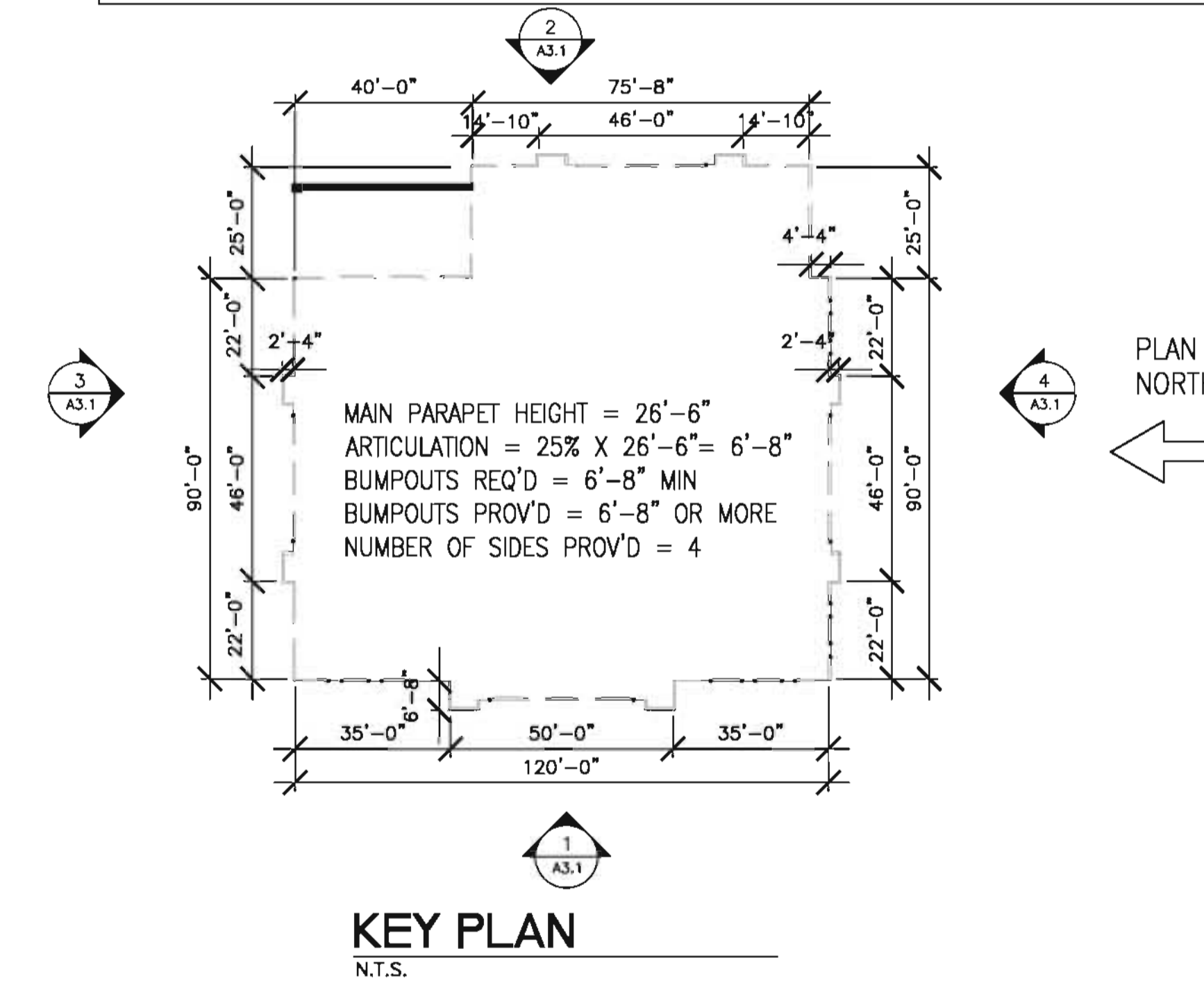
**02 REAR (EAST) ELEVATION**  
SCALE: 1/8" = 1'-0"

REFER TO OTHER ELEVATIONS FOR NOTES U.N.O.

TOTAL FACADE - 3655 S.F.  
TOTAL (MINUS WINDOWS/DOORS) - 3610 S.F.  
STONE 26% - 930 S.F.  
STUCCO 21% - 770 S.F.  
TILE 4% - 160 S.F.  
TEXTURE COATED TILT WALL 48% - 1450 S.F.



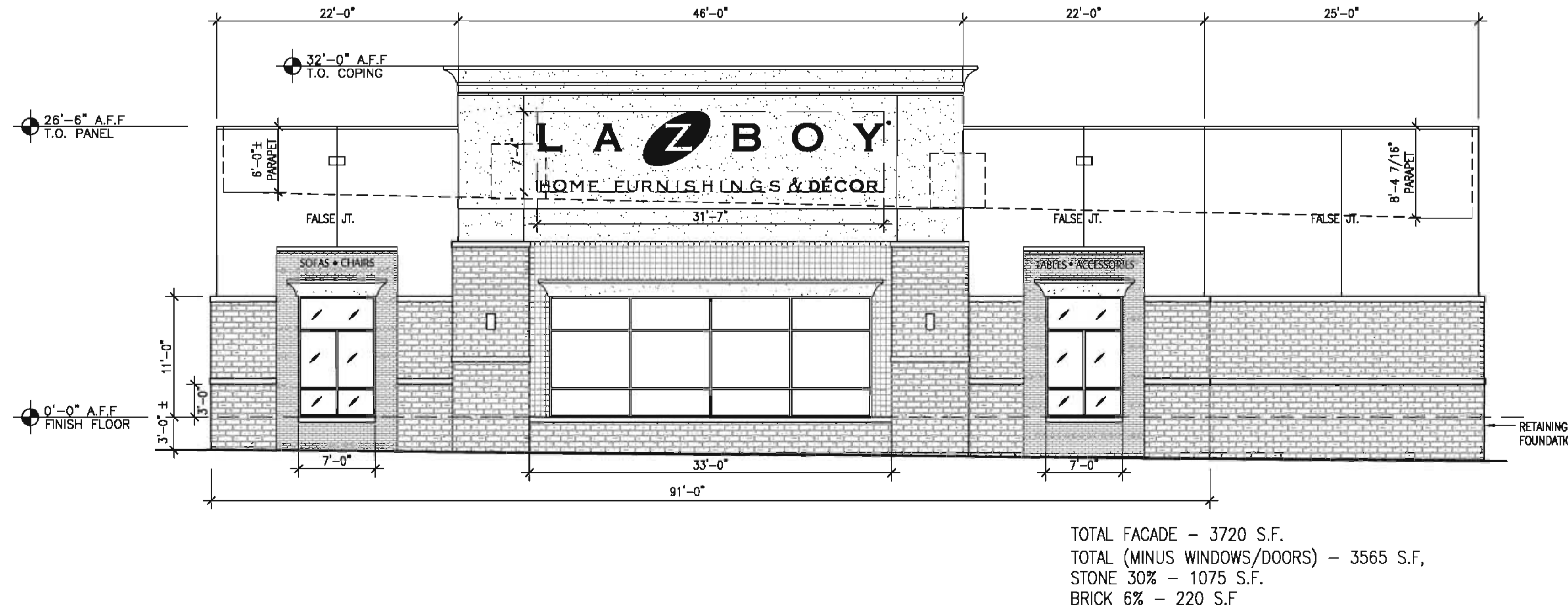
**02 DUMPSTER ELEVATIONS**  
SCALE: 1/8" = 1'-0"



**03 SIDE (NORTH) ELEVATION**  
SCALE: 1/8" = 1'-0"

REFER TO OTHER ELEVATIONS FOR NOTES U.N.O.

TOTAL FACADE - 3360 S.F.  
TOTAL (MINUS WINDOWS/DOORS) - 3160 S.F.  
STONE 20% - 645 S.F.  
BRICK 5% - 160 S.F.  
TILE 5% - 160 S.F.  
STUCCO 25% - 790 S.F.  
TEXTURE COATED TILT 44% - 1405 S.F.



**04 SIDE (SOUTH) ELEVATION**  
SCALE: 1/8" = 1'-0"

REFER TO OTHER ELEVATIONS FOR NOTES U.N.O.

TOTAL FACADE - 3720 S.F.  
TOTAL (MINUS WINDOWS/DOORS) - 3565 S.F.  
STONE 30% - 1075 S.F.  
BRICK 6% - 220 S.F.  
TILE 4% - 160 S.F.  
STUCCO 22% - 790 S.F.  
TEXTURE COATED TILT WALL 37% - 1320 S.F.

**LA-Z-BOY**  
HOME FURNISHINGS AND DECOR  
I-30 & SOUTH GOLIAD ST.  
ROCKWALL, TEXAS

**HODGES & ASSOCIATES**  
Architecture + Planning + Interiors  
www.hodgesusa.com 877.387.1000  
13042 Orange, Dallas, TX 75244

Project Number: 12108-01

Drawn By: \_\_\_\_\_ Checked By: \_\_\_\_\_

No	Description	Date
	SITE SUBMITTAL	8-14-13
	RE - SUBMITTAL	7-2-13

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**A3.1**  
EXTERIOR ELEVATIONS



**LANDSCAPE NOTES**

- Contractor shall verify all existing and proposed site elements and notify Architect of any discrepancies. Survey data of existing conditions was supplied by others.
- Contractor shall locate all existing underground utilities and notify Architect of any conflicts. Contractor shall exercise caution when working in the vicinity of underground utilities.
- Contractor is responsible for obtaining all required landscape and irrigation permits.
- Contractor to provide a minimum 2% slope away from all structures.
- All planting beds and lawn areas to be separated by steel edging. No steel to be installed adjacent to sidewalks or curbs.
- All landscape areas to be 100% irrigated with an underground automatic irrigation system and shall include rain and freeze sensors.
- All lawn areas to be Solid Sod Bermudagrass, unless otherwise noted on the drawings.

**MAINTENANCE NOTES**

- The Owner, tenant and their agent, if any, shall be jointly and severally responsible for the maintenance of all landscape.
- All landscape shall be maintained in a neat and orderly manner at all times. This shall include mowing, edging, pruning, fertilizing, watering, weeding and other such activities common to landscape maintenance.
- All landscape areas shall be kept free of trash, litter, weeds and other such material or plants not part of this plan.
- All plant material shall be maintained in a healthy and growing condition as is appropriate for the season of the year.
- All plant material which dies shall be replaced with plant material of equal or better value.
- Contractor shall provide separate bid proposal for one year's maintenance to begin after final acceptance.

**GENERAL LAWN NOTES**

- Fine grade areas to achieve final contours indicated on civil plans.
- Adjust contours to achieve positive drainage away from buildings. Provide uniform rounding at top and bottom of slopes and other breaks in grade. Correct irregularities and areas where water may stand.
- All lawn areas to receive solid sod shall be left in a maximum of 1" below final finish grade. Contractor to coordinate operations with on-site Construction Manager.
- Imported topsoil shall be natural, friable soil from the region, known as bottom soil, free from lumps, clay, toxic substances, roots, debris, vegetation, stones, containing no salt and black to brown in color.
- All lawn areas to be fine graded, irrigation trenches completely settled, and finish grade approved by the Owner's Construction Manager or Architect prior to installation.
- All rocks 3/4" diameter and larger, dirt clods, sticks, concrete spoils, etc. shall be removed prior to placing topsoil and any lawn installation.
- Contractor shall provide (1") one inch of imported topsoil on all areas to receive lawn.

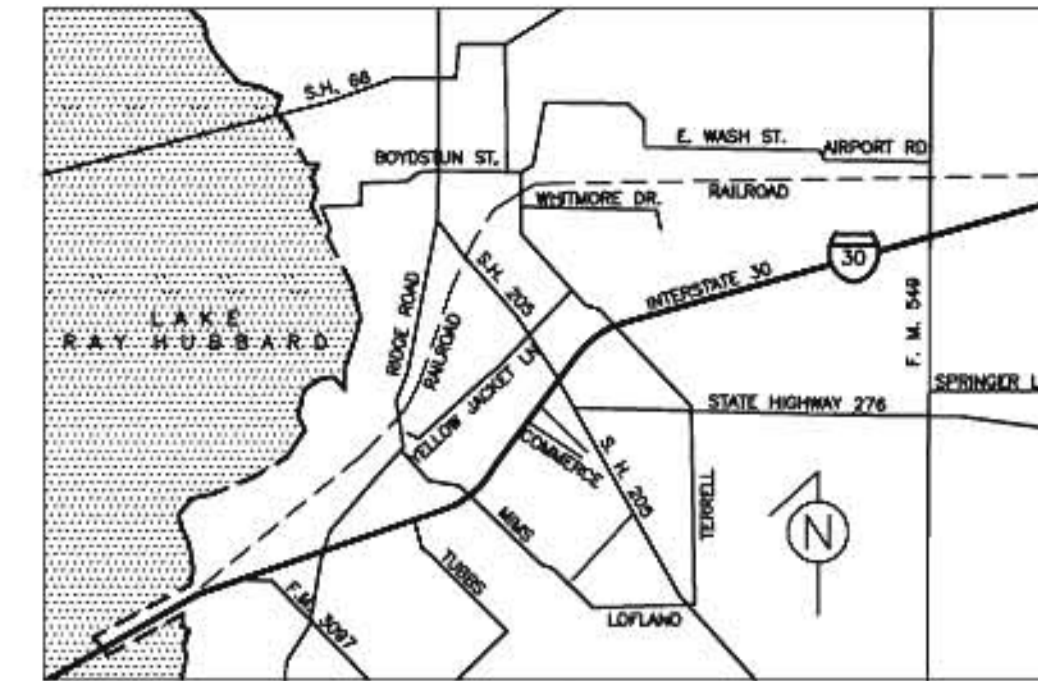
**SOLID SOD NOTES**

- Fine grade areas to achieve final contours indicated. Leave areas to receive topsoil 3" below final desired grade in planting areas and 1" below final grade in turf areas.
- Adjust contours to achieve positive drainage away from buildings. Provide uniform rounding at top and bottom of slopes and other breaks in grade. Correct irregularities and areas where water may stand.
- All lawn areas to receive solid sod shall be left in a maximum of 1" below final finish grade. Contractor to coordinate operations with on-site Construction Manager.
- Contractor to coordinate with on-site Construction Manager for availability of existing topsoil.
- Plant sod by hand to cover indicated area completely. Insure edges of sod are touching. Top dress joints by hand with topsoil to fill voids.
- Roll grass areas to achieve a smooth, even surface, free from unnatural undulations.
- Water sod thoroughly as sod operation progresses.
- Contractor shall maintain all lawn areas until final acceptance. This shall include, but not limited to: mowing, watering, weeding, cultivating, clearing and replacing dead or bare areas to keep plants in a vigorous, healthy condition.
- Contractor shall guarantee establishment of an acceptable turf area and shall provide replacement from local supply if necessary.
- If installation occurs between September 1 and March 1, all sod areas to be over-seeded with Winter Ryegrass, at a rate of (4) pounds per one thousand (1000) square feet.

**PLANT LIST**

TREES					
QTY.	TYPE	COMMON NAME	BOTANICAL NAME	SIZE	REMARKS
10	CE	Cedar Elm	Ulmus crassifolia	4" cal.	container grown, 15' ht., 5' spread min., 5' clear trunk
	LO	Live Oak	Quercus virginiana	4" cal.	container grown, 15' ht., 5' spread min.
	TY	Tree Yucca Holly	Ilex vomitoria	6' ht.	B&B, 3 cane, tree form, no cross cuning
SHRUBS					
QTY.	TYPE	COMMON NAME	BOTANICAL NAME	SIZE	REMARKS
97	DBH	Dwarf Burford Holly	Ilex cornuta 'Burfordii nana'	36" ht.	container, full plant, 24" o.c.
19	IH	Indian Hawthorne 'Clara'	Raphiograss indica 'Clara'	5 gal.	container, full plant, 24" o.c.
48	KNR	Double Knockout Rose	Rosa sp. 'Double Knockout'	3 gal.	container, full plant, 24" o.c.
52	HMK	Dwarf Hameln Grass	Pennisetum sp. 'Hameln'	1 gal.	container, full top of container, 18" o.c.
GROUNDCOVERS					
QTY.	TYPE	COMMON NAME	BOTANICAL NAME	SIZE	REMARKS
40	LG	Giant Liriope	Liriope gigantea	3 gal.	container, full top of container, 24" o.c.
		Common Bermudagrass	Cynodon dactylon	roll sod	solid sod, refer to notes

NOTE: Plant list is an aid to bidders only. Contractor shall verify all quantities on plan. All heights and spreads are minimums. All plant material shall meet or exceed remarks as indicated. All trees to have straight trunks and be matching within varieties.



VICINITY MAP NOT-TO-SCALE

**LANDSCAPE TABULATIONS**

SITE REQUIREMENTS (site area 109,712 s.f.)

Requirements: 15% site area to be landscaped

Required	Provided
16,456.8 s.f. (15%)	20,414 s.f. (18.6%)

FRONT YARD REQUIREMENTS

Requirements: 50% of required landscape must be located in front yard

Required	Provided
8,228 s.f. (50%)	8,402 s.f.

STREET REQUIREMENTS: IH 30 OVERLAY

Requirements: (3) canopy tree 4" cal. and (4) accent trees, 4" ht. per 100 l.t. of frontage

IH 30 FRONTAGE (229.32 l.t.)

Required	Provided
(7) trees, 4" cal.	(7) trees, 4" cal.
(10) trees, 4" ht.	(10) trees, 6" ht.

PARKING LOT (54 spaces; 21,439 s.f.)

Requirements: 5% of total parking lot area and (1) tree, 4" cal. per 20 parking spaces

Required	Provided
(3) trees, 4" cal.	(6) trees, 4" cal.
1,072 s.f. (5%)	2,554 s.f. 11.9%

ALL TREES TO BE LOCATED 5' FROM WATER, SEWER AND STORM SEWER LINES

ALL TREES AND SHRUBS TO BE SETBACK 4' FROM ALL HEAD-IN PARKING

SITE DATA	LOT 2, BLOCK 1
ZONING:	LUC WITH IH-30 OVERLAY
PROPOSED USE:	RETAIL
LOT AREA:	2,519 AC. (109,712 SF)
BUILDING AREA:	13,250 SF
BUILDING TYPE:	IIB
BUILDING HEIGHT:	33'-6"
# STORIES:	1
LOT COVERAGE:	12.08%
FLOOR AREA RATIO:	0.121:1
FRONT BUILDING SETBACK:	25'
PARKING REQUIRED:	53 SPACES
HANDICAP PARKING REQUIRED:	3 SPACES
PARKING PROVIDED:	54 SPACES
LANDSCAPE REQUIRED:	16,456.8
LANDSCAPE PROVIDED:	20,414
IMPERVIOUS AREA:	55,162 S.F. (0.503:1)

**01 LANDSCAPE PLAN**

SCALE: 1" = 30'-0"  
0 15 30 60

smr  
landscape architects, inc.  
1708 N. Griffin Street  
Dallas, Texas 75202  
Tel: 214-871-5695  
Fax: 214-871-0545  
Email: smr@smr-a.com

SP2013-014



OWNER:  
LEBCO INDUSTRIES, L.P.  
10676 KING WILLIAMS  
DALLAS, TEXAS 75220  
PHONE: (---) -----  
CONTACT: LEW BROWN

ENGINEER/SURVEYOR  
CATES - CLARK & ASSOC., LLP  
14800 QUORUM DRIVE, SUITE 200  
DALLAS, TEXAS 75254  
PHONE: (972) 385-2272  
CONTACT: LAWRENCE A. CATES, P.E., R.P.L.S.

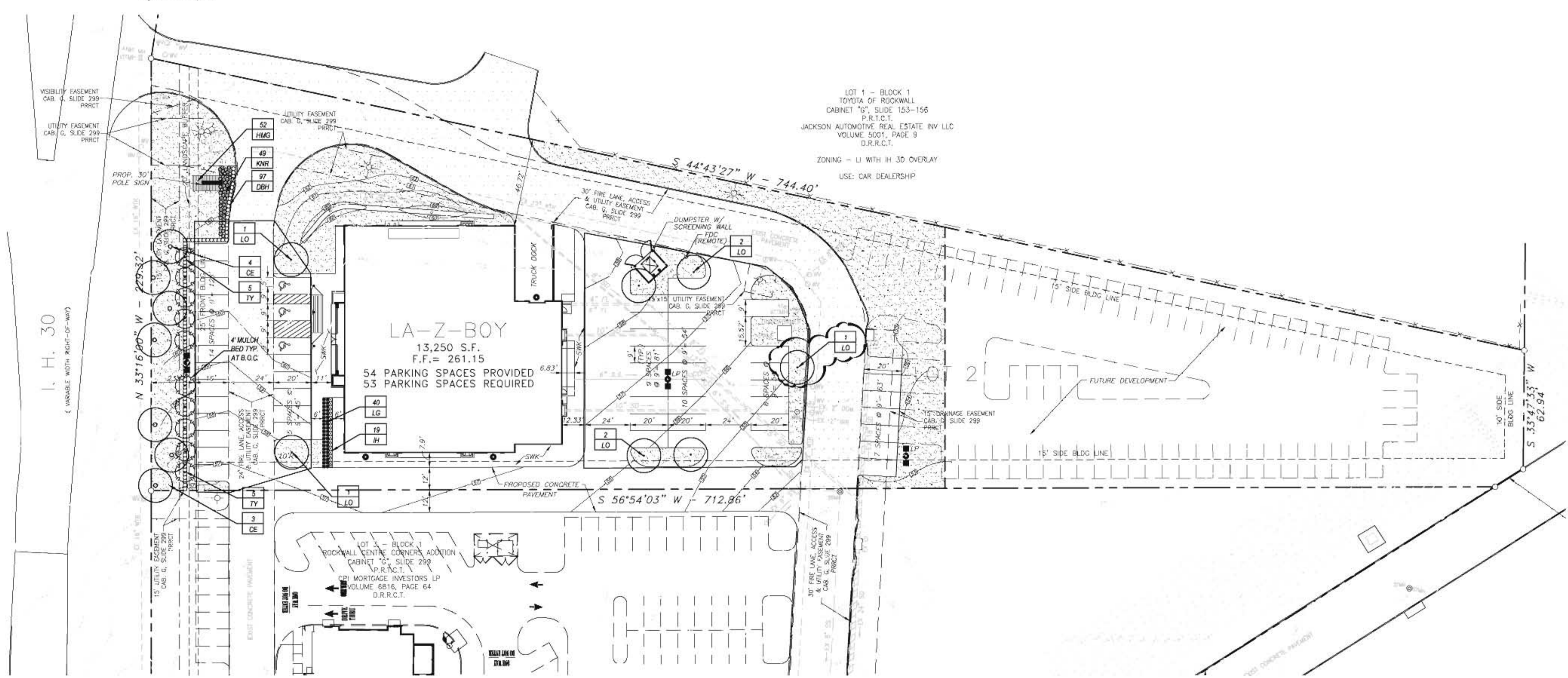
REV.	DATE	CITY COMMENTS	REMARKS
1	7.1.13		

**LANDSCAPE PLAN**  
LA-Z-BOY

LOT 2, BLOCK 1, ROCKWALL CENTRE CORNERS ADDN.  
THE CITY OF ROCKWALL, TEXAS

Cates - Clark & Associates, LLP  
Consulting Engineers

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
BDA	BDA	06.14.13	1"=30'	D.P.	128-001 SITE	L.1





SECTION 02900 - LANDSCAPE

PART 1 - GENERAL

1.1 REFERENCED DOCUMENTS

Refer to bidding requirements, special provisions, and schedules for additional requirements.

1.2 DESCRIPTION OF WORK

Work included: Furnish all supervision, labor, materials, services, equipment and appliances required to complete the work covered in conjunction with the landscaping covered in these specifications and landscaping plans, including:

- Planting (trees, shrubs, and grass)
- Bed preparation and fertilization
- Notification of sources
- Water and Maintenance until final acceptance
- Guarantee

1.3 REFERENCE STANDARDS

- American Standard for Nursery Stock published by American Association of Nurserymen: 27 October 1980, Edition; by American National Standards Institute, Inc. (Z60.1) - plant material.
- American Joint Committee on Horticultural Nomenclature: 1942 Edition of Standardized Plant Names.
- Texas Association of Nurserymen, Grades and Standards.
- Horris Third, 1976 - Cornell University

1.4 NOTIFICATION OF SOURCES AND SUBMITTALS

- The Contractor shall, within ten (10) days following acceptance of bid, notify the Architect/Owner of the sources of plant materials and bed preparation required for the project.
- Samples: Provide representative quantities of sandy loam soil, mulch, bed mix material, gravel, and crushed stone. Samples shall be approved by Architect before use on project.
- Product Data: Submit complete product data and specifications on all other specified materials.
- Submit three representative samples of each variety of ornamental trees, shrubs, and groundcover plants for Architect's approval. When approved, tag, install, and maintain as representative samples for final installed plant materials.
- File Certificates of Inspection of plant material by state, county, and federal authorities with Architect, if required.
- Soil Analysis: Provide sandy loam soil analysis if requested by the Architect.

JOB CONDITIONS

- General Contractor to complete the following punch list: Prior to Landscape Contractor initiating any portion of landscape installation. General Contractor shall leave planting bed areas three (3") inches below finish grade of sidewalks, drives and curbs as shown on the Drawings. All lawn areas to receive solid sod shall be left one (1") inch below the finish grade of sidewalks, drives, and curbs. All construction debris shall be removed prior to Landscape Contractor beginning any work.
- General Contractor shall provide topsoil as described in Section 02200 - Earthwork.
- Storage of materials and equipment at the job site will be at the risk of the Landscape Contractor. The Owner cannot be held responsible for theft or damage.

1.6 MAINTENANCE AND GUARANTEE

- Maintenance:
  - The Landscape Contractor will be held responsible for the maintenance of all work from the time of planting until final acceptance by the Owner. No trees, shrubs, groundcover or grass will be accepted unless they show a healthy growth and satisfactory foliage conditions.
  - Maintenance shall include watering of trees and plants, cultivation, weeding spraying, edging, pruning of trees, mowing of grass, cleaning up and all other work necessary of maintenance.
  - A written notice requesting final inspection and acceptance should be submitted to the Owner at least seven (7) days prior to completion. An on-site inspection by Owner and Landscape Contractor will be completed prior to written acceptance.
  - After final acceptance of installation, the Landscape Contractor will not be required to do any of the above listed work.
- Guarantee:
  - Trees shall be guaranteed for a twelve (12) month period after acceptance. Shrubs and groundcover shall be guaranteed for twelve (12) months. The Contractor shall replace all dead materials as soon as weather permits and upon notification of the Owner. Plants, including trees, which have partially died so that shape, size, or symmetry has been damaged, shall be considered subject to replacement. In such cases, the opinion of the Owner shall be final.
    - Plants used for replacement shall be of the same size and kind as those originally planted and shall be planted as originally specified. All work, including materials, labor and equipment used in replacements, shall carry a twelve (12) month guarantee. Any damage, including ruts in lawn or bed areas, incurred as a result of making replacements shall be immediately repaired.
    - At the direction of the Owner, plants may be replaced at the start of the next year's planting season. In such cases, dead plants shall be removed from the premises immediately.
    - When plant replacements are made, plants, soil mix, fertilizer and mulch are to be utilized as originally specified unless otherwise indicated on drawings. All replacements. All replacements are to be included under "Work" of this section.

1.7 QUALITY ASSURANCE

- General: Comply with applicable Federal, State, County and Local regulations governing landscape materials and work
- Personnel: Employ only experienced personnel who are familiar with the required work. Provide full time supervision by a qualified foreman acceptable to Landscape Architect.
- Selection of Plant Material:
  - Make contact with suppliers immediately upon obtaining notice of contract acceptance to select and book materials. Develop a program of maintenance (pruning and fertilization) which will insure the purchased materials will meet and/or exceed project specifications.
  - Landscape Architect will provide a key identifying each tree location on site. Written verification will be required to document material selection, source and delivery schedules to site.
  - Owner and/or Architect shall inspect all plant materials when reasonable at place of growth for compliance with requirements for genus, species, cultivar/variety, size and quality.
  - Owner and/or Architect retains the right to further inspect all plant material upon arrival at the site and during installation for size and condition of root balls, limbs, branching habit, insects, injuries, and latent defects.
  - Owner and/or Architect may reject unsatisfactory or defective material at any time during the process of work. Remove rejected materials from the site immediately. Plants damaged in transit or at job site shall be rejected.

1.8 PRODUCT DELIVERY, STORAGE AND HANDLING

- Preparation:
  - Balled and Burlapped (BAB) Plants: Dig and prepare shipment in a manner that will not damage roots, branches, shape, and future development.
  - Container Grow Plants: Deliver plants in rigid container to hold ball shape and protect root mass.

2.2 SOIL PREPARATION MATERIALS

- Sandy Loam:
  - Friable, fertile, dark, loamy soil, free of clay lumps, subsoil, stones and other extraneous material and reasonably free of weeds and foreign grasses. Loam containing Dallasgrass or Nutgrass shall be rejected.
  - Physical properties as follows:
    - Clay - between 7-27 percent
    - Silt - between 15-25 percent
    - Sand - less than 52 percent
  - Organic matter shall be 3%-10% of total dry weight.
  - If requested, provide a certified soil analysis conducted by an approved soil testing laboratory verifying that sandy loam meets the above requirements.
- Organic Material: Compost with a mixture of 80% vegetative matter and 20% animal waste. Ingredients should be a mix of coarse and fine textured material.
- Premixed Bedding Soil as supplied by Vital Earth Resources, Gladeview, Texas; Professional Bedding Soil as supplied by Living Earth Technology, Dallas, Texas or Acid Gro Municipal Mix as supplied by Soil Building Systems, Dallas, Texas or approved equal.
- Sharp Sand: Sharp sand must be free of seeds, soil particles and weeds.
- Mulch: Double Shredded Hardwood Mulch, partially decomposed, dark brown. Living Earth Technologies or approved equal.
- Organic Fertilizer: FertiLaid, Sustane, or Green Sense or equal as recommended for required applications. Fertilizer shall be delivered to the site in original unopened containers, each bearing the manufacturer's guaranteed statement of analysis.
- Commercial Fertilizer: 10-20-10 or similar analysis. Nitrogen source to be a minimum 50% slow release organic Nitrogen (SCU or UF) with a minimum 8% sulphur and 4% iron, plus micronutrients.
- Peat: Commercial sphagnum peat moss or partially decomposed shredded pine bark or other approved organic material.

2.3 MISCELLANEOUS MATERIALS

- Steel Edging: Shall be Ryerson "Estate Curbing", 1/8" x 4" with stakes 4' on center.
- Staking Material for Shade Trees:
  - Post: Studded T-Post, #1 Armo with anchor plate; 6'-0" length; paint green.
  - Wire: 12 gauge, single strand, galvanized wire.
  - Rubber hose: 2 ply, fiber reinforced hose, minimum 1/2 inch inside diameter. Color: Black.
- Gravel: Washed native pea gravel, graded 1 in. to 1 1/2 in.
- Filter Fabric: Mirafi 140N by Celanese Fibers Marketing Company, available at Loftland Co., (214) 631-5250 or approved equal.

PART 3 - EXECUTION

3.1 BED PREPARATION & FERTILIZATION

- Landscape Contractor to inspect all existing conditions and report any deficiencies to the Owner.
- All planting areas shall be conditioned as follows:
  - Prepare new planting beds by scraping away existing grass and weeds as necessary. Till existing soil to a depth of six (6") inches prior to placing compost and fertilizer. Apply fertilizer as per manufacturers recommendations. Add six (6") inches of compost and till into a depth of six (6") inches of the topsoil. Apply organic fertilizer such as Sustane or Green Sense at the rate of twenty (20) pounds per one thousand (1,000) square feet.
  - All planting areas shall receive a two (2") inch layer of specified mulch.
  - Backfill for tree pits shall be as follows: Use existing top soil on site (use imported topsoil as needed) free from large clumps, rocks, debris, caliche, subsoils, etc., placed in nine (9") inch layers and watered thoroughly.
- Grass Areas:
  - Areas to be Solid Sod Bermudagrass: Blocks of sod should be laid joint to joint, (staggered joints) after fertilizing the ground first. Roll grass areas to achieve a smooth, even surface. The joints between the blocks of sod should be filled with topsoil where they are evidently gaped open, then watered thoroughly.
  - Areas to be Hydromulch Common Bermudagrass: Hydromulch with bermudagrass seed at a rate of two (2) pounds per one thousand (1,000) square feet. Use a 4' x 8' batter board against the bed areas.

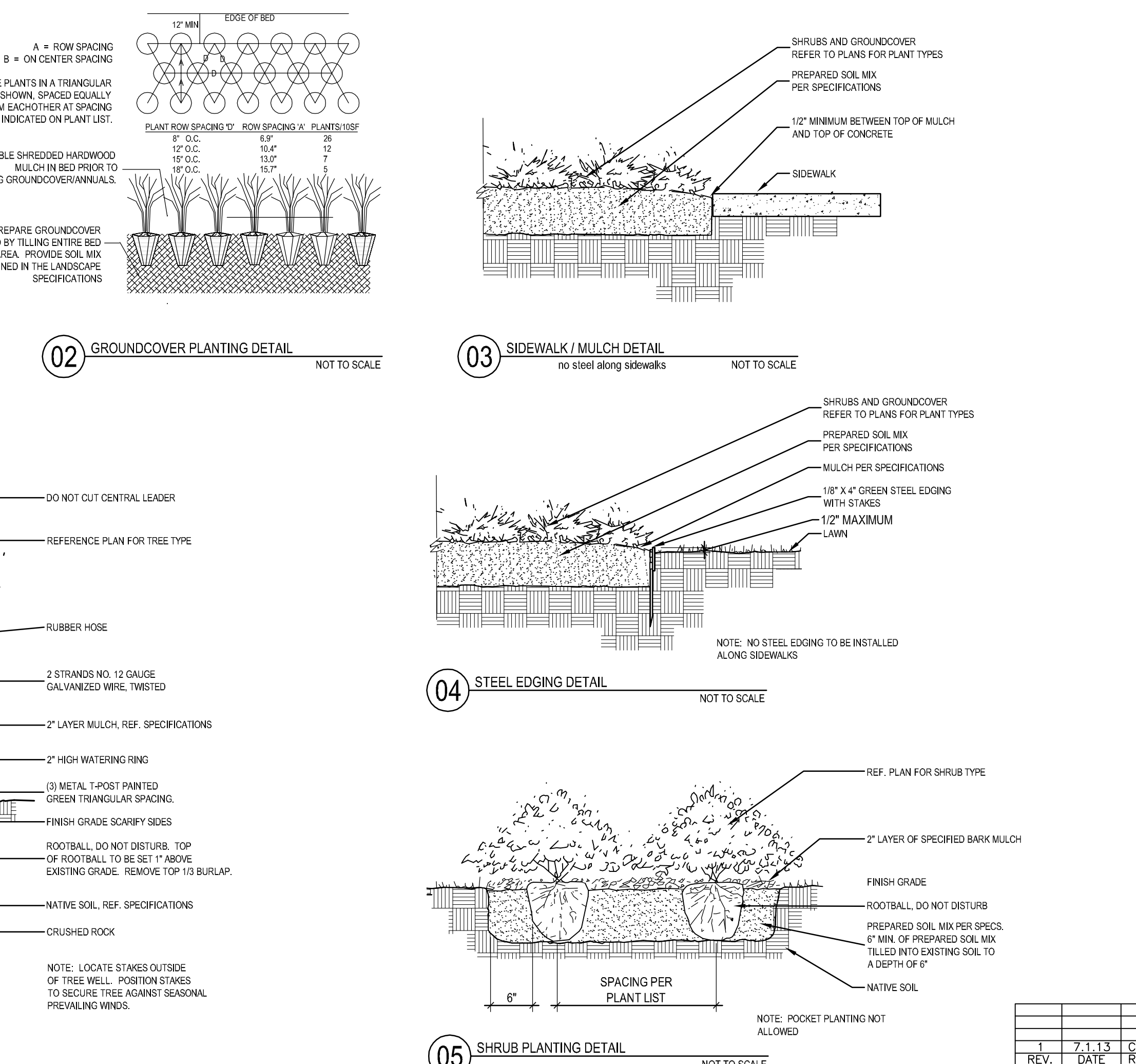
3.2 INSTALLATION

- Maintenance of plant materials shall begin immediately after each plant is delivered to the site and shall continue until all construction has been satisfactorily accomplished.
- Plant materials shall be delivered to the site only after the beds are prepared and area ready for planting. All shipments of nursery materials shall be thoroughly protected from the drying winds during transit. All plants which cannot be planted at once, after delivery to the site, shall be well protected against the possibility of drying by wind and sun. Balls of earth of B & S plants shall be kept covered with soil or other acceptable material. All plants remain the property of the Contractor until final acceptance.
- Position the trees and shrubs in their intended location as per plan.
- Notify the Landscape Architect for inspection and approval of all positioning of plant materials.
- Excavate pits with vertical sides and horizontal bottom. Tree pits shall be large enough to permit handling and planting without injury to balls of earth or roots and shall be of such depth that, when planted and settled, the crown of the plant shall bear the same relationship to the finish grade as it did to soil surface in original place of growth.

- Shrub and tree pits shall be no less than two (2') feet, twenty-four (24") inches, wider than the lateral dimension of earth ball and six (6") inches deeper than its vertical dimension. Remove and haul from site all rocks and stones over one (1") inch in diameter. Plants should be thoroughly moist before removing containers.
- Dig a wide, rough sided hole exactly the same depth as the height of the ball, especially at the surface of the ground. The sides of the hole should be rough and jagged, never slick or glazed.
- Percolation Test: Fill the hole with water. If the water level does not percolate within 24 hours, the tree needs to move to another location or have drainage added. Install a PVC stand pipe per tree planting detail as approved by the Landscape Architect.
- Backfill only with 5 parts existing soil or sandy loam and 1 part bed preparation. When the hole is dug in solid rock, topsoil from the same area should not be used. Carefully settle by watering to prevent air pockets. Remove the burlap from the top 1/3 of the ball, as well as all nylon, plastic string and wire mesh. Container trees will usually be pot bound, so follow standard nursery practice of "root scoring".
- Do not wrap trees.
- Do not over prune.
- Mulch the top of the ball. Do not plant grass all the way to the trunk of the tree. Leave the area above the top of the ball and mulch with at least two (2") inches of specified mulch.
- All plant beds and trees to be mulched with a minimum settled thickness of two (2") inches over the entire bed or pit.
- Obstruction below ground: In the event that rock, or underground construction work or obstructions are encountered in any plant pit excavation work to be done under this section, alternate locations may be selected by the Owner. Where locations cannot be changed, the obstructions shall be removed to a depth of not less than three (3) feet below grade and no less than six (6") inches below the bottom of ball when plant is properly set at the required grade. The work of this section shall include the removal from the site of such rock or underground obstructions encountered at the cost of the Landscape Contractor.
- Trees and large shrubs shall be staked as site conditions require. Position stakes to secure tree against seasonal prevailing winds.
- Pruning and Mulching: Pruning shall be directed by the Architect and shall be pruned in accordance with standard horticultural practice following Fine Pruning, Class I pruning standards provided by National Arborist Association.
  - Dead wood or suckers and broken badly bruised branches shall be removed. General tipping of the branched is not permitted. Do not cut terminal branches.
  - Pruning shall be done with clean, sharp tools.
  - Immediately after planting operations are completed, all tree pits shall be covered with a layer of organic material two (2") inches in depth. This limit of the organic material shall be Steel Curbing installation.

3.3 CLEANUP AND ACCEPTANCE

- Cleanup: During the work, the premises shall be kept neat and orderly at all times. Storage areas for all materials shall be so organized that they, too, are neat and orderly. All trash and debris shall be removed from the site as work progresses. Keep paved areas clean by sweeping or hosing at end of each days work.



smr  
landscape architects, inc.  
1708 N. Griffin Street  
Dallas, Texas 75202  
Tel: 214.871.0000  
Fax: 214.871.0646  
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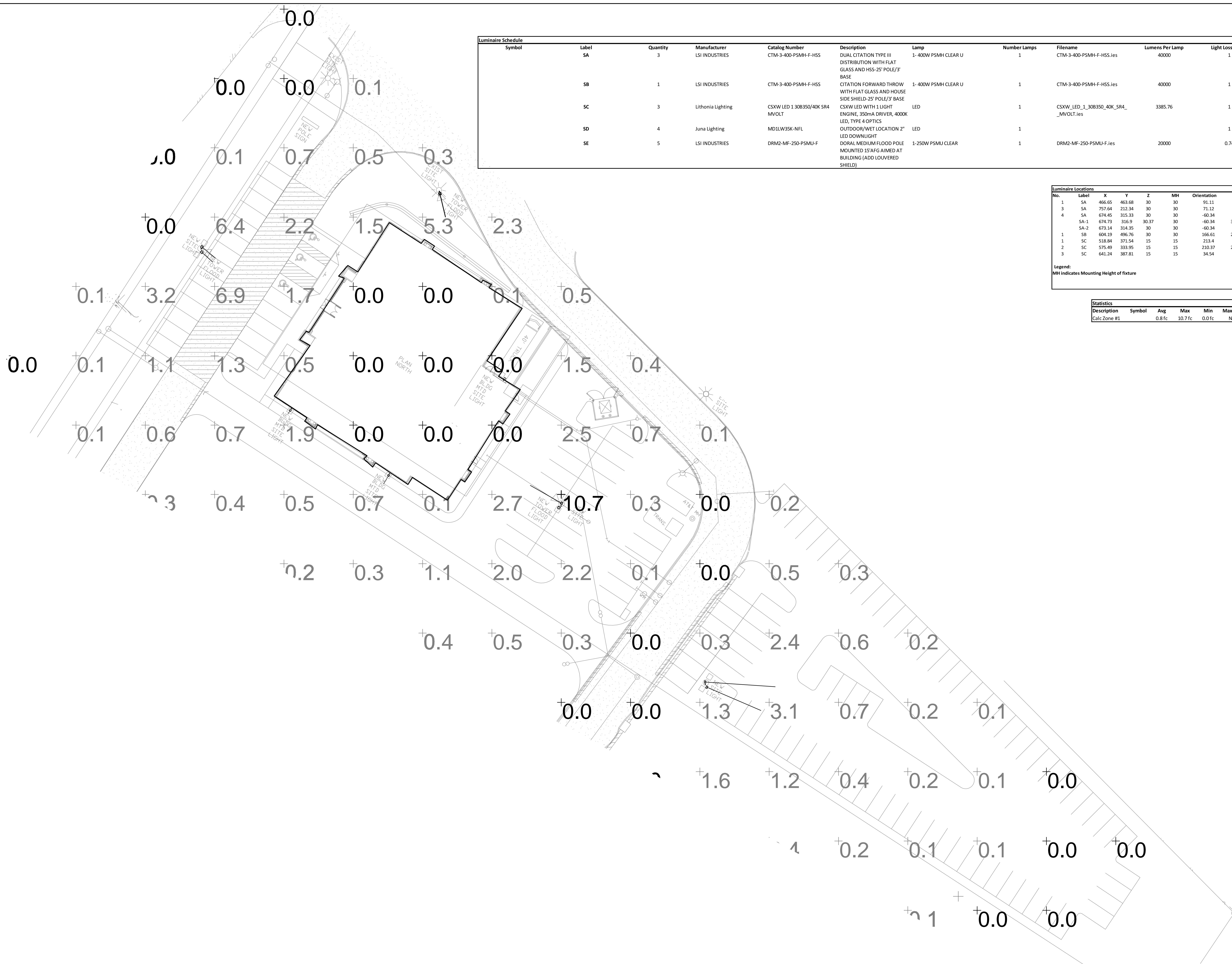
SP2013-014

REV.	DATE	CITY COMMENTS	REMARKS			
1	7.1.13					
<b>LANDSCAPE SPECIFICATIONS</b>						
LA-Z-BOY						
LOT 2, BLOCK 1, ROCKWALL CENTRE CORNERS ADDN.						
THE CITY OF ROCKWALL, TEXAS						
<b>CC</b> Cates - Clark & Associates, LLP Consulting Engineers		14800 Quorum Drive, Suite 300 Dallas, Texas 75254 Office: 972.385.2272 Fax: 972.980.1627 TBP# E-5751				
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
BDA	BDA	06.14.13	NONE	D.P.	128-001 SITE	L.2

OWNER:  
LEBCO INDUSTRIES, L.P.  
10676 KING WILLIAMS  
DALLAS, TEXAS 75254  
PHONE: (---) 222-  
CONTACT: LEW BROWN

ENGINEER/SURVEYOR  
CATES - CLARK & ASSOC., LLP  
14800 QUORUM DRIVE, SUITE 300  
DALLAS, TEXAS 75254  
PHONE: (972) 385-2272  
CONTACT: LAWRENCE A. CATES, P.E., R.P.L.S.





Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
SA	SA	3	LSI INDUSTRIES	CTM-3-400-PSMH-F-HSS	DUAL CITATION TYPE III DISTRIBUTION WITH FLAT GLASS AND HSS-25' POLE/3' BASE	1-400W PSMH CLEAR U	1	CTM-3-400-PSMH-F-HSS.lies	40000	1	904
SB	SB	1	LSI INDUSTRIES	CTM-3-400-PSMH-F-HSS	CITATION FORWARD THROW WITH FLAT GLASS AND HOUSE SIDE SHIELD-25' POLE/3' BASE	1-400W PSMH CLEAR U	1	CTM-3-400-PSMH-F-HSS.lies	40000	1	452
SC	SC	3	Lithonia Lighting	CSXW LED 1 308350/40K SR4 MVOLT	CSXW LED WITH 1 LIGHT ENGINE, 350MA DRIVER, 4000K LED, TYPE 4 OPTICS	LED	1	CSXW_LED_1_308350_40K_SR4_MVOLT.lies	3385.76	1	40
SD	SD	4	Juna Lighting	MD11W35K-NFL	OUTDOOR/WET LOCATION 2" LED DOWNLIGHT	LED	1			1	20
SE	SE	5	LSI INDUSTRIES	DRM2-MF-250-PSMU-F	DORAL MEDIUM FLOOD POLE MOUNTED 15' AFG AIMED AT BUILDING (ADD LOUVERED SHIELD)	1-250W PSMU CLEAR	1	DRM2-MF-250-PSMU-F.lies	20000	0.74	291

No.	Label	X	Y	Z	MH	Orientation	Tilt	X	Y	Z
1	SA	466.65	463.68	30	30	91.11	...			
3	SA	757.64	212.34	30	30	71.12	...			
4	SA	674.45	315.33	30	30	-60.34	...			
	SA-1	674.73	316.9	30.37	30	-60.34	34.36	656.69	327.17	0
	SA-2	673.14	314.35	30	30	-60.34	0	673.14	314.35	0
1	SB	604.19	496.76	30	30	166.61	24.32	607.67	482.14	0
1	SC	518.84	371.54	15	15	213.4	9.17	516.82	368.47	0
2	SC	575.49	333.95	15	15	210.37	20.52	572	328	0
3	SC	641.24	387.81	15	15	34.54	0	641.94	388.64	0

Legend:  
MH indicates Mounting Height of fixture

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min	Avg/Max
Calc Zone #1		0.8 fc	10.7 fc	0.0 fc	N/A	N/A	0.1:1

1 SITE PLAN - PHOTOMETRICS  
SCALE: 1" = 20'-0"



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www.hodgesandassociates.com 972.987.1000  
15842 Oregon, Dallas, TX 75244

Project Number:  
12108-01

Drawn By: \_\_\_\_\_ Checked By: \_\_\_\_\_

No.	Description	Date
1	SITE SUBMITTAL	8-14-13

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**JSE** Jordan & Skala Engineers  
11821 N. Dallas Parkway, Suite 100  
Dallas, TX 75227-6857  
N: 469.305-1616 F: 469.305-1615  
Project Number: 133-0391  
Drawn By: SWA Checked By: MNB

**E-3.1**  
SITE PLAN

08-14-2013



# MINI LED DOWNLIGHT

OUTDOOR/WET LOCATION

MD1LW RECESSED HOUSING AND TRIM

**LOW VOLTAGE**

Project: \_\_\_\_\_

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

Location: \_\_\_\_\_

Contact/Phone: \_\_\_\_\_

## PRODUCT DESCRIPTION

The MD1LW mini LED recessed downlight is for use in wet locations and is IC rated for insulated or non-insulated applications • Sleek, compact form factor provides direct accent lighting with low glare optic system that approximates the light output and distribution of 20W halogen lamps • Ideal for both residential and commercial wet location applications including bathrooms and eave lighting • Remote mount Class 2 120V to 12V AC electronic or magnetic driver/transformer required • Designed to provide 50,000 hours of life • 5 year limited warranty on LED components.

## ENVIRONMENTALLY FRIENDLY, ENERGY EFFICIENT

- No harmful ultraviolet or infrared wavelengths
- No lead or mercury
- Comparable light output to 20W MR11 halogen lamps while consuming 5W



## PRODUCT SPECIFICATIONS

**LED Light Engine** Lumileds LUXEON® Rebel LEDs provide outstanding reliability, performance and color quality/consistency • 2700K, 3000K, 3500K or 4100K color temperatures available • 85 CRI typical.

**Optical System** Fixtures are offered with a choice of spot (16°), narrow flood (24°) or flood (35°) beam patterns • LED source concealed with lensed optic is deeply regressed into an internal reflector to produce a low glare system • Reflectors finished to match trim ring color for uniform appearance • Field replacement of optical lenses is NOT recommended.

**LED Driver/Transformer** Onboard fixture LED driver operates at less than 5 watts input at 12-volts AC • Requires remote mount Class 2, 120V to 12V AC electronic or magnetic driver/transformer for operation • Juno's **TL602E** electronic driver/transformer and **TL576** magnetic transformer are designed specifically for use with these fixtures.

**Dimming** May be dimmed with dimmers tested and qualified by Juno for use with **TL602E** and **TL576**— see driver/transformer specifications for compatible dimmers • Color temperature remains constant over dimming range • Consult factory for additional information.

**Life** Rated for 50,000 hours at 70% lumen maintenance.

**Labels** UL Listed for wet locations and daisy chaining • Union made • UL and cUL listed • RoHS compliant.

**Testing** All reports are based on published industry procedures; field performance may differ from laboratory performance.

Product specifications subject to change without notice.

## HOUSING FEATURES

**Housing** Designed for use in IC (insulated ceiling) or non-IC construction • Die cast aluminum housing • Finished with either corrosion resistant painted finishes or E-coat for decorative plated finishes.

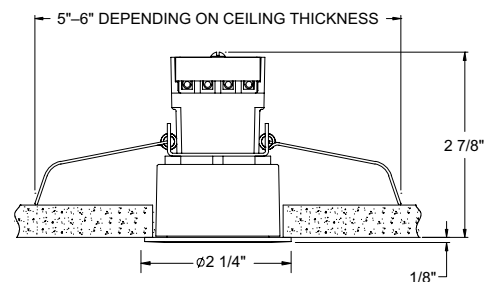
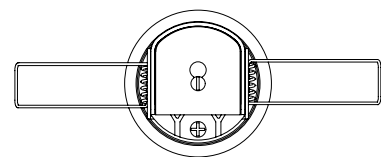
**Wiring Compartment** Provided with removable access plate • Four pole terminal block allows for quick, secure connection • UL /cUL listed for daisy chaining • Easy to wire with commonly available low voltage cable (Type CL2 or NEC equivalent, 18-12 AWG). Consult local codes for compliant wiring methods.

**Mounting** Zinc plated torsion clips are provided fully assembled to housing • Springs allow for fast, secure installation or removal in mounting surfaces from 1/8" to 1" thick material • 2" Cutout dimension corresponds to common hole saw size.

LUXEON is a registered trademark of the Philips Lumileds Lighting Company



## DIMENSIONS



2" CUTOUT

## ELECTRICAL DATA

Input Voltage	<b>12VAC</b>
Input Power	4.8W
Input Current - Max	0.42A
Frequency	Varies with Transformer

## ORDERING INFORMATION:

Example: **MD1LW41K-NFL-SN**

### Fixture

Catalog No.	Color Temp.	Optic	Finish
<b>MD1LW</b>	<b>27K</b> 2700K <b>3K</b> 3000K <b>35K</b> 3500K <b>41K</b> 4100K	<b>SP</b> Spot <b>NFL</b> Narrow Flood <b>FL</b> Flood	<b>WH</b> White <b>BL</b> Black <b>SN</b> Satin Nickel <b>BZ</b> Bronze

### Transformer

Catalog Number	Finish	Description
<b>TL602E-10-WH</b>	White	10W 12V AC Electronic Driver/Transformer
<b>TL602E-25-WH</b>	White	25W 12V AC Electronic Driver/Transformer
<b>TL602E-60-WH</b>	White	60W 12V AC Electronic Driver/Transformer
<b>TL576-10-BL</b>	Black	10W 12V AC Magnetic Driver/Transformer
<b>TL576-25-BL</b>	Black	25W 12V AC Magnetic Driver/Transformer
<b>TL576-60-BL</b>	Black	60W 12V AC Magnetic Driver/Transformer



# MINI LED DOWNLIGHT

## MD1LW OUTDOOR/WET LOCATION RECESSED HOUSING AND TRIM LOW VOLTAGE

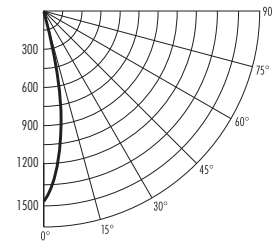
### PHOTOMETRIC REPORT

Test Report #: PT10102802

Catalog No: MD1LW35K-SP-WH

Luminaire Spacing Criterion: 0.28

Luminaire LPW: 38.6



### CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1453
5	1086
15	211
25	52
35	11
45	4
55	0
65	0
75	0
85	0
90	0

Multiplier: 27K - 0.92  
3K - 0.96  
41K - 1.06

### AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60"x60" room)  
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	14	13	12
5.0'	9	8	7
6.0'	6	6	5
7.0'	5	5	4
8.0'	4	4	3
9.0'	3	3	3
10.0'	2	2	2

### INITIAL FOOTCANDLES (One Unit, 5W, 15.7° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	90.8	1.1'
6	40.4	1.7'
8	22.7	2.2'
10	14.5	2.8'

### LUMINANCE (Average cd/m<sup>2</sup>)

Degrees	Average 0° Luminance
45	6377
55	0
65	0
75	0
85	0

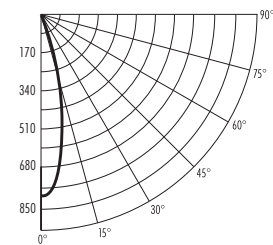
### PHOTOMETRIC REPORT

Test Report #: LTL21544

Catalog No: MD1LW35K-NFL-WH

Luminaire Spacing Criterion: 0.40

Luminaire LPW: 38.2



### CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	803
5	701
15	277
25	74
35	19
45	5
55	2
65	0
75	0
85	0
90	0

Multiplier: 27K - 0.92  
3K - 0.96  
41K - 1.06

### AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60"x60" room)  
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	13	12	11
5.0'	9	8	7
6.0'	6	5	5
7.0'	5	4	4
8.0'	4	4	3
9.0'	3	3	2
10.0'	2	2	2

### INITIAL FOOTCANDLES (One Unit, 5W, 23.6° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	50.2	1.7'
6	22.3	2.5'
8	12.5	3.3'
10	8.0	4.2'

### LUMINANCE (Average cd/m<sup>2</sup>)

Degrees	Average 0° Luminance
45	6171
55	3215
65	0
75	0
85	0

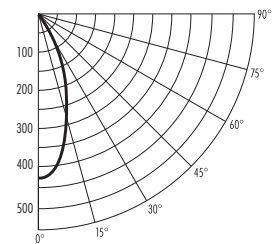
### PHOTOMETRIC REPORT

Test Report #: PT10102803

Catalog No: MD1LW35K-FL-WH

Luminaire Spacing Criterion: 0.56

Luminaire LPW: 37.2



### CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	424
5	403
15	240
25	104
35	28
45	9
55	4
65	2
75	0
85	0
90	0

Multiplier: 27K - 0.92  
3K - 0.96  
41K - 1.06

### AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60"x60" room)  
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	13	12	11
5.0'	8	8	7
6.0'	6	5	5
7.0'	5	4	4
8.0'	4	3	3
9.0'	3	3	2
10.0'	2	2	2

### INITIAL FOOTCANDLES (One Unit, 5W, 34.9° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	26.5	2.5'
6	11.8	3.8'
8	6.6	5.0'
10	4.2	6.3'

### LUMINANCE (Average cd/m<sup>2</sup>)

Degrees	Average 0° Luminance
45	16739
55	7738
65	7000
75	0
85	0

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit at 12VAC in a 25°C ambient represents a baseline of performance for the fixture. Results may vary in the field and when multiple fixtures are used in a system.



1300 S. Wolf Road • Des Plaines, IL 60018 • Phone (847) 827-9880 • Fax (847) 827-2925  
220 Chrysler Drive • Brampton, Ontario • Canada L6S 6B6 • Phone (905) 792-7335 • Fax (905) 792-0064  
Visit us at [www.junolightinggroup.com](http://www.junolightinggroup.com)

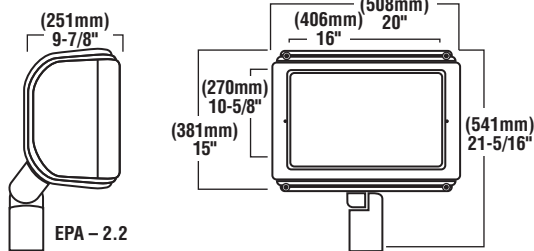
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# DORAL® - MEDIUM (Various reflectors are protected by U.S. Patent No. 6,464,378.)

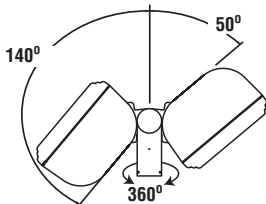
# ARCHITECTURAL FLOOD



### DIMENSIONS

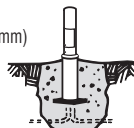


### AIMING RANGE



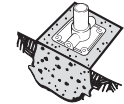
### MOUNTING BRACKETS

**STANCHION MOUNT TENON (SMT):** 3" (76mm) O.D. x 250" (6mm) x 22.65" (575mm) cast aluminum with 2" (51mm) pipe tenon (2-3/8" OD x 4-3/4" min. length). Wiring and internal ground lug accessible through hand hole.

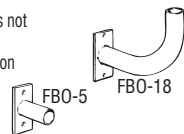


### PAD/WALL MOUNT (PWM)

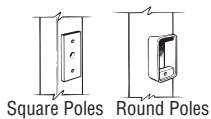
2" (51mm) pipe size aluminum tenon welded to a cast aluminum plate. Plate has four 1/2" (13mm) dia. mounting holes, and plate has two 1/2" (13mm) N.P.T. for conduit entry. Powder finish. Wall mount is single fixture only. Pad mount may use multiple mounting.



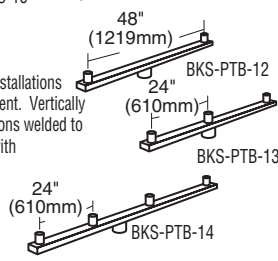
**FLOODLIGHTING BRACKETS FBO-5** For installations not requiring horizontal fixture adjustment. Horizontally mounted 2" (51mm) x 4-3/4" (120mm) pipe size tenon welded to a steel plate and secured by two bolts.  
**FBO-18** For installations requiring horizontal fixture adjustment. Vertically mounted 2" (51mm) x 17-1/2" (445mm) pipe size tenon welded to a steel plate and secured by two bolts.



**POLE PREPARATION** - Pole preparation "SF" or "DF" required when ordering FBO-5 or FBO-18 brackets. Note: FBO-5 and FBO-18 brackets can be ordered for round or square steel poles.



**TENON MOUNT BRACKET (PTB):** For installations requiring full horizontal fixture adjustment. Vertically mounted 2" (51mm) pipe size steel tenons welded to 2" (51mm) x 4" (102mm) steel arms, with removable end caps for wiring access. Arms are welded to a round slipfitter, compatible with stanchions or poles with 2" (51mm) pipe size tenons (2-3/8" O.D. x 4-3/4" min. length). Slipfitters are secured by 6 stainless steel set screws and one zinc plated through bolt.



**HOUSING** - One-piece cast aluminum in a multi-radiused rectangular shape with integral cooling ribs over the back. Internal concealed hinges permit full access to reflector area and housing interior. One-piece extruded silicone gasket between housing and door frame.

**DOOR FRAME** - One-piece cast aluminum door frame mates with housing to create multi-radiused shape. Door frame secures to housing by two internal (concealed) hinge brackets. 3/16" thick clear tempered glass lens seals to door frame by a one-piece silicone sponge gasket and stainless steel clips. Door frame secures to housing by four captive stainless steel recessed fasteners. Four holes provided for attachment of Glare Shield, Polycarbonate Shield, and Louver Shield.

**SOCKETS** - Porcelain mogul-base sockets. All sockets are pulse-rated.

**LIGHT SOURCES** - Pulse-Start Metal Halide, Pulse-Start Metal Halide Reduced Envelope, or High Pressure Sodium. Clear lamp is supplied as standard.

### BALLASTS/ELECTRICAL COMPONENTS

- Factory mounted in housing and prewired with leads extending through gasketing and into swivel mounting arm. UL listed components with high-power factor ballasts rated for -20° F starting. Optional photocell internally mounted in swivel mounting arm wiring access cover.

### REFLECTORS/DISTRIBUTION PATTERNS

- Doral Medium offers four reflector types: Horizontal Flood (HF), Medium Flood (MF), Vertical Flood (VF), and Spot Flood (SP). Reflectors are offered with highly reflective optical components. Photometric data is tested in accordance with IESNA guidelines.

### ADJUSTABLE SWIVEL MOUNTING ARM

- Two-piece cast aluminum ratcheting swivel design with external splice compartment supplied with aluminum access cover. Access cover permits field wiring while fixture is in position on pole or bracket. Internal toothed ratcheting system provides positive locking in a range of 190° with adjustment in increments of 5°. Swivel mounting arm accepts standard 2-3/8" O.D. x 4-3/4" minimum or 2-7/8" O.D. x 4-3/4" minimum tenon and is secured by four recessed allen set screws (through bolt optional by others). Swivel adjustment is made by concealed hex head pivot bolt. Mounting arm is internally and externally sealed by gasketing.

**BRACKETS** - Stanchion Mounts, Pad/Wall Mounts, or PTBs may be ordered with Doral Medium fixtures.

**FINISHES** - Each fixture is finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling, and is guaranteed for five full years. Standard colors include bronze, black, platinum plus, white, satin verde green, metallic silver, and graphite.

**PHOTOMETRICS** - Please visit our web site at [www.lsi-industries.com](http://www.lsi-industries.com) for detailed photometric data.



**ARRA**  
Funding Compliant



### SHIPPING WEIGHTS - Doral Medium

Catalog Number	Est. Weight (kg/lbs.)	Length (mm/in.)	Width (mm/in.)	Height (mm/in.)
DRM	27/59	546/21.5	337/13.25	603/23.75



# DORAL® - MEDIUM

# ARCHITECTURAL FLOOD



TYPICAL ORDER EXAMPLE: **DRM2 VF 400 HPS F MT BLK PCI120**

Luminaire Prefix	Distribution	Lamp Wattage	Light Source	Lens	Line Voltage	Luminaire Finish	Options
DRM2 – Doral Medium	HF – Horizontal Flood MF – Medium Flood VF – Vertical Flood SP – Spot	250 400	PSMU – Pulse-Start Metal Halide Universal 250 Watt PSMUR – Pulse-Start Metal Halide Reduced Envelope Universal 400 Watt HPS – High Pressure Sodium 250, 400 Watt	F – Flat Clear Tempered Glass	480 MT – Multi Tap TT – Tri-Tap	BRZ - Bronze BLK - Black PLP – Platinum Plus WHT - White SVG - Satin Verde Green GPT - Graphite MSV - Metallic Silver	PCI120 – Button-Type Photocell PCI208 – Button-Type Photocell <sup>1</sup> PCI240 – Button-Type Photocell <sup>1</sup> PCI277 – Button-Type Photocell <sup>1</sup> PCI347 – Button-Type Photocell SQT - Standby Quartz (Time Delay) <sup>2</sup> SQN - Standby Quartz (Non-Time Delay) <sup>2</sup> LL – Less Lamp
<p><b>MT – Multi Tap</b> consists of 120V, 208V, 240V and 277V and is prepared for highest voltage. Alternate voltages will require field adjustment.</p> <p><b>TT – Tri-Tap</b> consists of 120V, 277V and 347V and is shipped standard for Canadian applications and is prepared for highest voltage. Alternate voltages will require field adjustment.</p>					<p><b>Consult Factory for International Voltages and Light Sources</b></p>		

### FOOTNOTES:

- 1- Photocells on 208V, 240V and 277V fixtures are wired for 277V operation. 208V or 240V photocells will require field re-wiring.
- 2- SQN and SQT options available with HF or VF distribution only.

### BRACKET ORDERING INFORMATION

Bracket Designation	Bracket Type	Bracket Configuration	Length	Bracket Finish	Options	EPA Values*	
BKA – Bracket Aluminum	DRM2 – Doral Medium	SMT – Stanchion Mount Tenon	23"	BRZ – Bronze BLK – Black PLP – Platinum Plus BUF – Buff WHT – White GPT – Graphite SVG – Satin Verde Green MSV – Metallic Silver	None		
		PWM – Pad/Wall Mount	6"				
BKS – Bracket Steel	—	FBO – Flood Bolt-on	5" 18"			0.1 0.6	
		PTB-12 – Pole Top Bracket	48"				1.8 1.8 2.5
		PTB-13 – Pole Top Bracket	48"				
		PTB-14 – Pole Top Bracket	72"				

TYPICAL ORDER EXAMPLE: **BKA DRM2 SMT 23 BLK**

### Notes:

PTB brackets split 2-3/8" OD tenon. FBO brackets are available on steel round and square poles. FBO brackets require pole preparation and must be ordered with "SF" or "DF" pole option.

\*The bracket EPA should be added to the fixture EPA when selecting the proper pole.

### ACCESSORY ORDERING INFORMATION

(Accessories are field installed)

Description	Order Number	Description	Order Number
BD – Barn Doors	90849CLR	FK120 - Single Fusing	FK120++
GS – Glare Shield	90850CLR	FK277 - Single Fusing	FK277++
PS – Polycarbonate Shield (Clear only)	90852	DFK208,240 - Double Fusing	DFK208,240++
LS – Louver Shield (Black only)	90853+	DFK480 - Double Fusing	DFK480++
		FK347 - Single Fusing	FK347++

++ Fusing to be installed in a compatible junction box (supplied by contractor), pole or stanchion mounting bracket.

**BARN DOORS (BD)**- Extruded aluminum doors with anti-reflection baffles. Each door hinged with a stainless steel clip – locks by a mounting screw. Doors are individually removable. Assembly mounts to die-cast door frame holes. **Caution:** Not recommended for ground-mounted fixtures in vandal-prone areas. Available in standard finishes.

**GLARE SHIELD (GS)**- Formed 1/16" thick aluminum. Mounts to cast door frame holes and may be used with Polycarbonate Shield option.

**POLYCARBONATE SHIELD (PS)** - 1/8" clear convex, U.V. stabilized, formed polycarbonate. Mounts to cast door frame holes. May be used with Glare Shield. **Caution:** Use only when vandalism is anticipated. Useful life is limited by U.V. discoloration from sunlight, HPS or MH lamps.

**LOUVER SHIELD (LS)** - Formed 1/16" thick aluminum with black finish. Mounts to cast door frame holes. Provides glare control. Available on Medium Flood and Spot distribution only.





<b>LUNA 1664BZ-LED</b>
BRONZE

MATERIAL	EXTRUDED ALUMINUM
GLASS	ETCHED GLASS
WIDTH	9.0"
HEIGHT	24.0"
EXTENSION	4.0"
TTO	11.5"
BACKPLATE HEIGHT	24.0"
BACKPLATE WIDTH	9.0"
BULB	TWO 4.5W COL. 35W INCANDESCENT EQUIVALANT
VOLTAGE	120V
UPC	640665166477

NOTES:

AT HINKLEY, WE EMBRACE THE DESIGN PHILOSOPHY THAT YOU CAN MERGE TOGETHER THE LIGHTING, FURNITURE, ART, COLORS AND ACCESSORIES YOU LOVE INTO A BEAUTIFUL ENVIRONMENT THAT DEFINES YOUR OWN PERSONAL STYLE. WE HOPE YOU WILL BE INSPIRED BY OUR COMMITMENT TO KEEP YOUR 'LIFE AGLOW.'



**lsi**  
**Outdoor Lighting**



## ***THE CITATION<sup>®</sup> SERIES***

*Excellent Lighting Control.  
Exceptional Value.*





## THE CITATION SERIES – FOR MAXIMUM OPERATIONAL VALUE

One of the best just got better.

Featuring the ultimate in high performance and efficient construction, the Citation Series has been improved to offer a wider variety of enhanced optical choices. Depending on your requirements, you can choose from three sizes, in addition to wattages ranging from 100 to 1000.

For new construction or upgrades to existing sites, the Citation Series offers you an extensive selection of energy-saving features designed to help improve the safety, security and overall image of any outdoor lighting area.

### THE CITATION II

The Citation II features a 400-Watt reduced envelope, Vertical or Horizontal Burn lamp option in the small Citation housing. With the Citation II, you can enjoy one of the outdoor lighting industry's finest operational values.

The Citation II is loaded with cost-saving features, including flat or sag glass lenses, Pulse-Start Metal Halide lamps, optional tool-less entry/ground re-lamping (ground re-lamping on Citation II Vertical Burn only), plus more.



## A WIDE VARIETY OF OPTICAL CHOICES



Flat-lensed fixtures meet IESNA full cutoff classification.



CITATION LARGE  
HORIZONTAL BURN



CITATION MEDIUM  
HORIZONTAL BURN

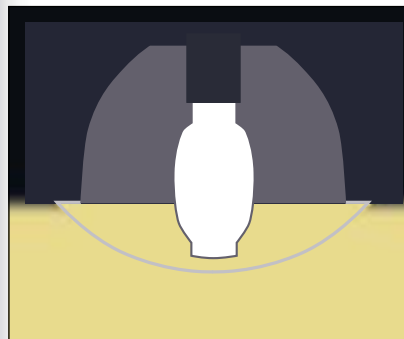


CITATION II  
VERTICAL BURN



CITATION II  
HORIZONTAL BURN

### HIGH-PERFORMANCE VERTICAL BURN OR HORIZONTAL BURN



#### Vertical Burn

Utilizing a sag lens, Vertical Burn fixtures control light output and distribute light more evenly over a larger area.

High-performance, multi-faceted reflectors surround the vertically oriented lamp to deliver brilliant light and provide maximum lighting distribution and uniformity. This creates better "see-ability" and efficiency using fewer fixtures, thus lowering your total cost of ownership.

- Greater lighting effectiveness and efficiency with fewer fixtures
- Lower energy costs
- Lower installation costs
- Lower total cost of ownership



#### Horizontal Burn

When your lighting requirements include sharp cutoff luminaires with a high degree of light control, specify Horizontal Burn.

Utilizing a flat lens, horizontal lamp orientation and high-performance, multi-faceted reflectors, Horizontal Burn fixtures allow you to place more direct emphasis on ground elements without sacrificing uniformity.

- Powerful, sharp cutoff illumination – meets IESNA full cutoff classification
- Excellent for areas with strict zoning requirements



## HOUSING

One-piece aluminum housing is available in small, medium and large sizes. Welded and finished corners provide a clean, sharp appearance, increased housing strength and weather-tight construction.

## LENS/GASKET

Clear, flat tempered glass lens or sag tempered glass lens is sealed to the housing with an EPDM gasket to prevent entry of moisture and insects.

## LIGHT SOURCES

Designed to operate with either a Pulse-Start Metal Halide; Super Metal Halide; Super Metal Halide Reduced Envelope; Metal Halide; Metal Halide Reduced Envelope or High Pressure Sodium lamp with mogul-base sockets. A clear lamp is supplied as standard.



FIXTURE SHOWN:  
CT2V CITATION II

## SOCKETS

Porcelain, mogul-base sockets feature spring-reinforced contacts for long life.

## EASY ACCESS

Standard doors feature two captive, stainless steel door fasteners, which provide secure closure and easy access. Optional, on Citation II fixtures, is a new spring-loaded quarter-turn fastener which allows for "tool-less entry" by hand, or "ground re-lamping" with a special re-lamping tool. Ground re-lamping is only possible on Vertical Burn Citation II fixtures.

## BALLAST

High-power factor type ballast is designed for -20° F operation. Ballast is mounted to the housing reinforcing plate.

## BRACKETS

Aluminum bolt-on bracket is shipped standard (2 1/2" x 6" x 6" on small models, 2 1/2" x 6" x 8" on medium models, 2 1/2" x 6" x 12" on large models). Optional 6" bracket is available for single and D180° configurations.

## INTERNAL FITTERS

Upgrading to the Citation Series is easy and cost-efficient with one of LSI's patented Internal Fitters (U.S. Patent No. 5,599,094). For existing 4" or 5" square poles, insert an Internal Fitter in the pole, and turn to tighten.



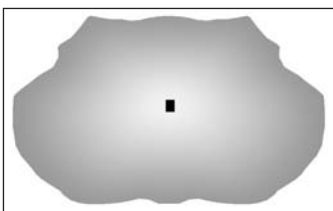
## REFLECTOR OPTIONS

The Citation Series offers a wide variety of reflector choices to meet your needs, including these high-performance options:

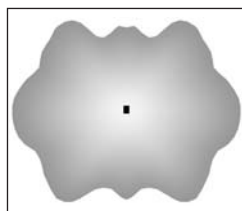
**Note:** Various reflector models are protected by U.S. Patent 6,464,378.

### CITATION II (CT2H) HORIZONTAL LAMP/FLAT LENS OPTIONS

TYPE 3

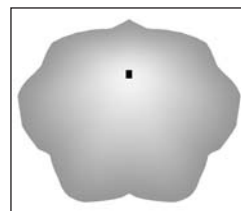


TYPE 5

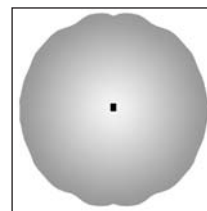


### CITATION II (CT2V) VERTICAL LAMP/SAG LENS OPTIONS

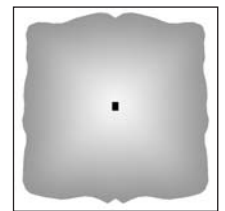
FORWARD THROW



TYPE 5



### CITATION MEDIUM (CTM) TYPE 5



Please visit our web site at [www.lsi-industries.com](http://www.lsi-industries.com) for detailed photometric data.

## Optional Ground Re-Lamping

A ground re-lamping option is available for Vertical Burn Citation II fixtures with lower pole heights. A special ground re-lamping tool opens and closes the unit, in addition to removing and replacing the lamp, making re-lamping remarkably easy.

- No bucket truck or ladders necessary
- No need for the added expense of hiring an outside contractor
- Maximum tool length of 15'

## Pulse-Start Metal Halide Lamps

With Pulse-Start Metal Halide lamps, you can enjoy the white light of Metal Halide, along with the energy efficiency and lumen maintenance of High Pressure Sodium.

Consider the benefits:

- Longer lamp life (up to 30,000 hours)
- More lumens per watt
- Better lumen maintenance for more light output over time
- Improved color stability and less color shift
- Faster warm-up



## PULSE-START CASE STUDY

### COMPARE

Feature	Standard M.H.	Pulse-Start Metal Halide	H.P.S.
Color	White	Whiter	Yellow
Efficacy (L/W)	60-85	90-110	100-125
Lumen Maint.	65%	80-85%	90%
Lamps	175-1000	35-750	35-1000
Lamp Life (kHrs)	6-16	15-30	24+

400 CWA (Standard M.H.)    320 Super CWA (Pulse-Start)

System Watts Per Fixture	458 Watts	365 Watts
Mean Lumens	28,800	26,400
Fixtures	20	20
Power Cost Per Fixt. Per Yr. @ 8¢ (4000 Hrs)	\$146.00	\$116.00

**Total Savings = \$30 X 20 = \$600 Per Year, Forever!**



Luminaire Prefix	Lamp Distribution	Wattage	Light Source	Lens	Line Voltage <sup>2</sup>	Luminaire Finish	Options
CT2H – Small (Horizontal lamp)	A – Asymmetrical 3 – Type III FT – Forward Throw 5 – Type V	100 150 175 250 320 400	PSMH – Pulse-Start Metal Halide 320 Watt SMH – Super Metal Halide 175, 250 Watt SMHR – Super Metal Halide Reduced Envelope 400 Watt MH – Metal Halide 175, 250 Watt MHR – Metal Halide Reduced Envelope 400 Watt HPS – High Pressure Sodium 100, 150, 250, 400 Watt	F – Flat Clear Tempered Glass	480 V MT – Multi-Tap <sup>3</sup> TT – Tri-Tap <sup>4</sup>	BRZ – Bronze BLK – Black PLP – Platinum Plus BUF – Buff WHT – White GRN – Green GPT – Graphite	6BK – 6" Bracket (CTL and CTM) <sup>5</sup> PCR – Photoelectric Control Receptacle <sup>6</sup> TE – Tool-less Entry <sup>7</sup> GR – Ground Re-Lamp (includes tool-less entry) <sup>8</sup> LL – Less Lamp
CT2V – Small (Vertical lamp)	FP – Forward Perimeter 5 – Type V	150 175 250 320 400	PSMV – Pulse-Start Metal Halide 175, 250, 320 Watt SMVR – Super Metal Halide Reduced Envelope 400 Watt MH – Metal Halide 175, 250 Watt MHR – Metal Halide Reduced Envelope 400 Watt HPS – High Pressure Sodium 150 Watt	CT – Contoured Clear Tempered Glass			
CTM – Medium (Horizontal lamp)	A – Asymmetrical 3 – Type III FT – Forward Throw 5 – Type V	250 320 400	PSMH – Pulse-Start Metal Halide 320 Watt SMH – Super Metal Halide 250, 400 Watt MH – Metal Halide 250, 400 Watt HPS – High Pressure Sodium 250, 400 Watt	F – Flat Clear Tempered Glass			
CTL – Large (Horizontal lamp)	A – Asymmetrical 3 – Type III FT – Forward Throw <sup>1</sup>	1000	MH – Metal Halide 1000 Watt HPS – High Pressure Sodium 1000 Watt				

**Example of Typical Order**

**CT2H 3 400 SMHR F MT BRZ**



Listed for wet locations.

- 1) CTL-FT – Forward Throw reflectors are field-rotatable.
- 2) For international voltages, consult factory.
- 3) MT – Multi-Tap is shipped standard unless otherwise specified. Multi-Tap consists of 120V, 208V, 240V and 277V. Multi-Tap is pre-wired for 277V. Alternate voltages will require field re-wiring.
- 4) Tri-Tap is shipped standard for C-UL applications. Tri-Tap consists of 120V, 277V, and 347V. Tri-Tap is pre-wired for 347V. Alternate voltages will require field re-wiring.

- 5) A 6" bracket can only be ordered with single and D180° configurations on CTL and CTM.
- 6) PCR factory installed and pre-wired for 277V. Alternate voltages will require field re-wiring.
- 7) Tool-less Entry option available on CT2V and CT2H.
- 8) Ground re-lamp option available on CT2V only. Maximum length 15 ft. See below for Ground Lamp Changer.

**LUMINAIRE EPA CHART**

Includes Bracket.

	Single	D90°	D180°	T90°	TN120°	Q90°	Parallel
Small Citation (CT2V) 6" Bracket	1.5	2.4	3.0	3.9	3.9	4.7	2.4
Small Citation (CT2H) 6" Bracket	1.4	2.2	2.8	3.6	3.6	4.4	2.2
Medium Citation (CTM) 8" Bracket	2.2	3.9	4.0	6.1	6.2	7.8	3.9
Large Citation II (CTL) 12" Bracket	3.2	5.1	6.4	8.3	8.5	10.2	5.1

House side shield adds to fixture EPA. Consult factory.

**ACCESSORY ORDERING INFORMATION**

Description	Order Number
PC120V – Photocell	122514
PC208V – Photocell	122515
PC240V – Photocell	122516
PC277V – Photocell	122517
PC480V – Photocell	122518
FK120V – Single Fusing	FK120V
FK277V – Single Fusing	FK277V
DFK208, 240V – Double Fusing	DFK208, 240V
DFK480V – Double Fusing	DFK480V
FK347V – Single Fusing	FK347V

Description	Order Number
CT2V HSS – House Side Shield	122519BLK <sup>*</sup>
CT2H HSS – House Side Shield	122519BLK <sup>*</sup>
CTM HSS – House Side Shield	122520BLK <sup>*</sup>
CTL HSS – House Side Shield	122521BLK <sup>*</sup>
CT2H PLS – Polycarbonate Shield	168702
CTM PLS – Polycarbonate Shield	122523
CTL PLS – Polycarbonate Shield	122524
RPP2 – Round Pole Plate	162914BLK <sup>*</sup>
BKS-BO-WM-*CLR Wall-Mount Plate	123111CLR
Ground Lamp Changer	132678A <sup>††</sup>

<sup>\*</sup>Black only.

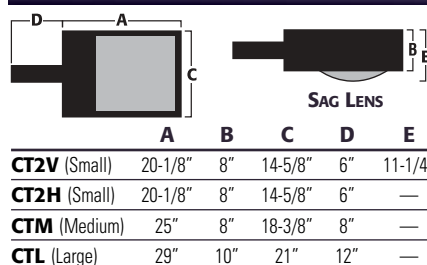
<sup>††</sup>For use with 250, 320, standard and 400 watt Reduced Envelope

**LUMINAIRE FINISHES**

Each Citation fixture is finished with DuraGrip®, LSI's baked-on, polyester-powder coat finishing process. LSI's DuraGrip finish withstands weather changes without cracking or peeling, and is guaranteed for 5 full years.



**DIMENSIONS**



**BRACKET - 2-BOLT PATTERN**  
**Note:** A six-inch bolt-on bracket is shipped standard with a small Citation. An eight-inch bolt-on bracket is shipped standard with a medium Citation. A twelve-inch bolt-on bracket is shipped standard with a large Citation, unless otherwise noted.







# CSXW LED LED Wall Luminaire



**CONTOUR**  
SERIES

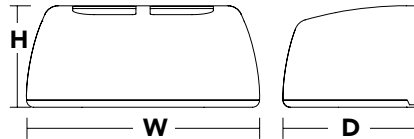
## Specifications

**Height:** 7-1/8"  
(29.2 cm)

**Width:** 16-3/8"  
(41.6 cm)

**Depth:** 9-5/16"  
(23.6 cm)

**Weight (max):** 30 lbs  
(13.6 kg)



Catalog  
Number

Notes

Type

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

## Introduction

The Contour® Series luminaires offer traditional square dayforms with softened edges for a versatile look that complements many applications.

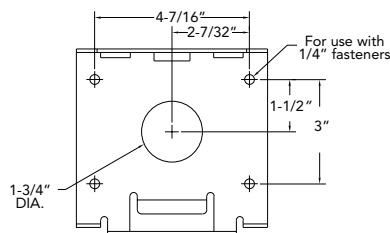
The CSXW LED combines the latest in LED technology with the familiar aesthetic of the Contour® Series for stylish, high-performance illumination that lasts. It is ideal for replacing 100-400W metal halide in wall-mounted applications with typical energy savings of 80% and expected service life of over 100,000 hours.

## Ordering Information

**EXAMPLE: CSXW LED 1 30B700/40K SR3 MVOLT DBBXTD**

CSXW LED							
Series	Light Engines	Performance Package <sup>1</sup>	Distribution	Voltage	Mounting	Options	Finish (required)
CSXW LED	1 One engine (30 LEDs)	<b>350 mA options:</b> 30B350/30K 3000K 30B350/40K 4000K 30B350/50K 5000K  <b>530 mA options:</b> 30B530/30K 3000K 30B530/40K 4000K 30B530/50K 5000K  <b>700 mA options:</b> 30B700/30K 3000K 30B700/40K 4000K 30B700/50K 5000K	SR2 Type II SR3 Type III SR4 Type IV FT Forward throw	MVOLT <sup>2</sup> 120 <sup>2</sup> 208 <sup>2</sup> 240 <sup>2</sup> 277 <sup>2</sup> 347 <sup>3</sup> 480 <sup>3</sup>	<b>Shipped included</b> (blank) Surface mount  <b>Shipped separately</b> BBW Surface-mounted back box (for conduit entry) <sup>4</sup>	<b>Shipped installed</b> PE Photoelectric cell, button type <sup>5,6</sup> DMG 0-10V dimming driver (no controls) <sup>7</sup> SF Single fuse (120, 277, 347V) <sup>8</sup> DF Double fuse (208, 240, 480V) <sup>8</sup>  <b>Shipped separately<sup>4</sup></b> VG Vandal guard WG Wire guard	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

## Mounting Detail



## Accessories

Ordered and shipped separately.

CSXWBBW DDBXD U	Back box accessory (specify finish)
CSXWWWG U	Wire guard accessory
CSXWWVG U	Vandal guard accessory

## NOTES

- Configured with 4000K (/40K) provides the shortest lead times. Consult factory for 3000K (/30K) and 5000K (/50K) lead times.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options) or photocontrol (PE option).
- Available with 700 mA options only (30B700).
- Also available as a separate accessory; see Accessories information at left.
- Photocontrol (PE) requires 120, 208, 240, 277 or 347 voltage option.
- Must be ordered with fixture; cannot be field installed.
- Not available with 530 mA options (30B530) or 347 or 480V.
- Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.





## Performance Data

### Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Contact factory for performance data on any configurations not shown here.

Light Engines	Drive Current (mA)	Performance Package	System Watts	Dist. Type	40K (4000K, 67 CRI)				
					Lumens	B	U	G	LPW
1 (30 LEDs)	350	30B350/--K	38W	SR2	3259	1	0	1	85
				SR3	3233	1	0	1	85
				SR4	3308	1	0	1	87
				FT	3311	1	0	1	87
	530	30B530/--K	57W	SR2	4522	1	0	1	79
				SR3	4475	1	0	1	79
				SR4	4583	1	0	2	80
				FT	4613	1	0	1	81
	700	30B700/--K	74W	SR2	5514	1	0	2	75
				SR3	5403	1	0	2	73
				SR4	5565	1	0	2	75
				FT	5601	1	0	2	76

### Lumen Ambient Temperature (LAT) Multipliers

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

Ambient		Lumen Multiplier
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
<b>25°C</b>	<b>77°F</b>	<b>1.00</b>
30°C	86°F	1.00
40°C	104°F	0.99

### Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **CSXW LED 1 30B700** platform in a **40°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

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

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.95	0.92	0.87

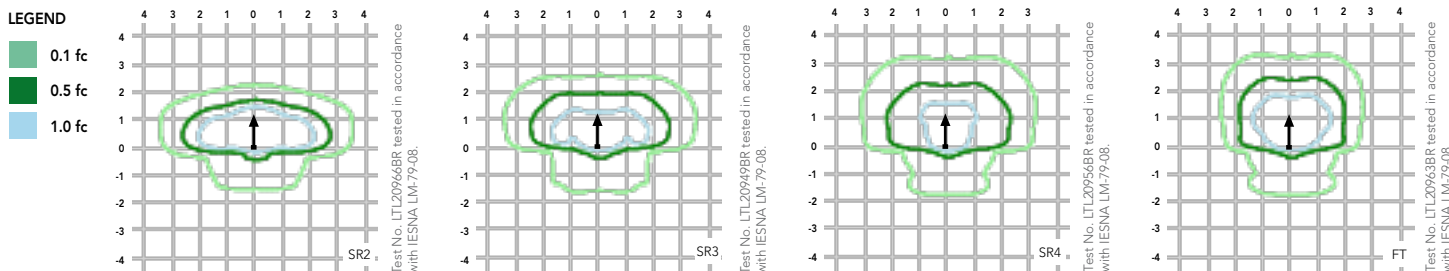
### Electrical Load

Light Engines	Drive Current (mA)	System Watts	Current (A)					
			120	208	240	277	347	480
1	350	38W	0.35	0.20	0.18	0.15	0.12	0.09
	530	57W	0.53	0.30	0.26	0.23	0.18	0.13
	700	74W	0.69	0.40	0.34	0.30	0.24	0.17

## Photometric Diagrams

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

Isofootcandle plots for the CSXW LED 1 30B700/40K. Distances are in units of mounting height (20').



## FEATURES & SPECIFICATIONS

### INTENDED USE

The Contour Series Wall LED luminaire is ideal for commercial building mounted applications from over-the-door to 20 ft mounting heights.

### CONSTRUCTION

Rugged, die-cast, single-piece aluminum housing. Unique flow-through design for optimized thermal management. Modularity allows for ease of maintenance and potential for future system upgrades. Metallic screen covers the top of the housing, preventing debris build-up while allowing for air flow. Housing is completely sealed against moisture and environmental contaminants.

### FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling.

### OPTICS

Precision-molded acrylic lenses provide optimal luminaire spacing and improved uniformity. Lenses are indexed to the circuit board to ensure consistent optical alignment and delivering repeatable photometric performance. Light engines are available in standard 4000K (67 CRI) or optional 3000K (80 CRI) or 5000K (67 CRI) configurations. The CSXW has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

### ELECTRICAL

Light engine consists of 30 high-efficacy LEDs mounted to a metal-core circuit board to maximize heat dissipation and promote long life (100,000 hrs at 40°C, L87). Class 1 electronic driver has a power factor >90%, THD <20%, and has an expected life of 100,000 hours with <1% failure rate. Easily-serviceable surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

### INSTALLATION

Universal mounting mechanism with integral mounting support allows fixture to hinge down. Bubble level provides correct alignment with every installation.

### LISTINGS

CSA Certified to U.S. and Canadian standards. Light engine is IP66 rated. Luminaire is IP65 rated.

### WARRANTY

Five year limited warranty. Full warranty terms located at [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx).

**Note:** Specifications subject to change without notice.

