

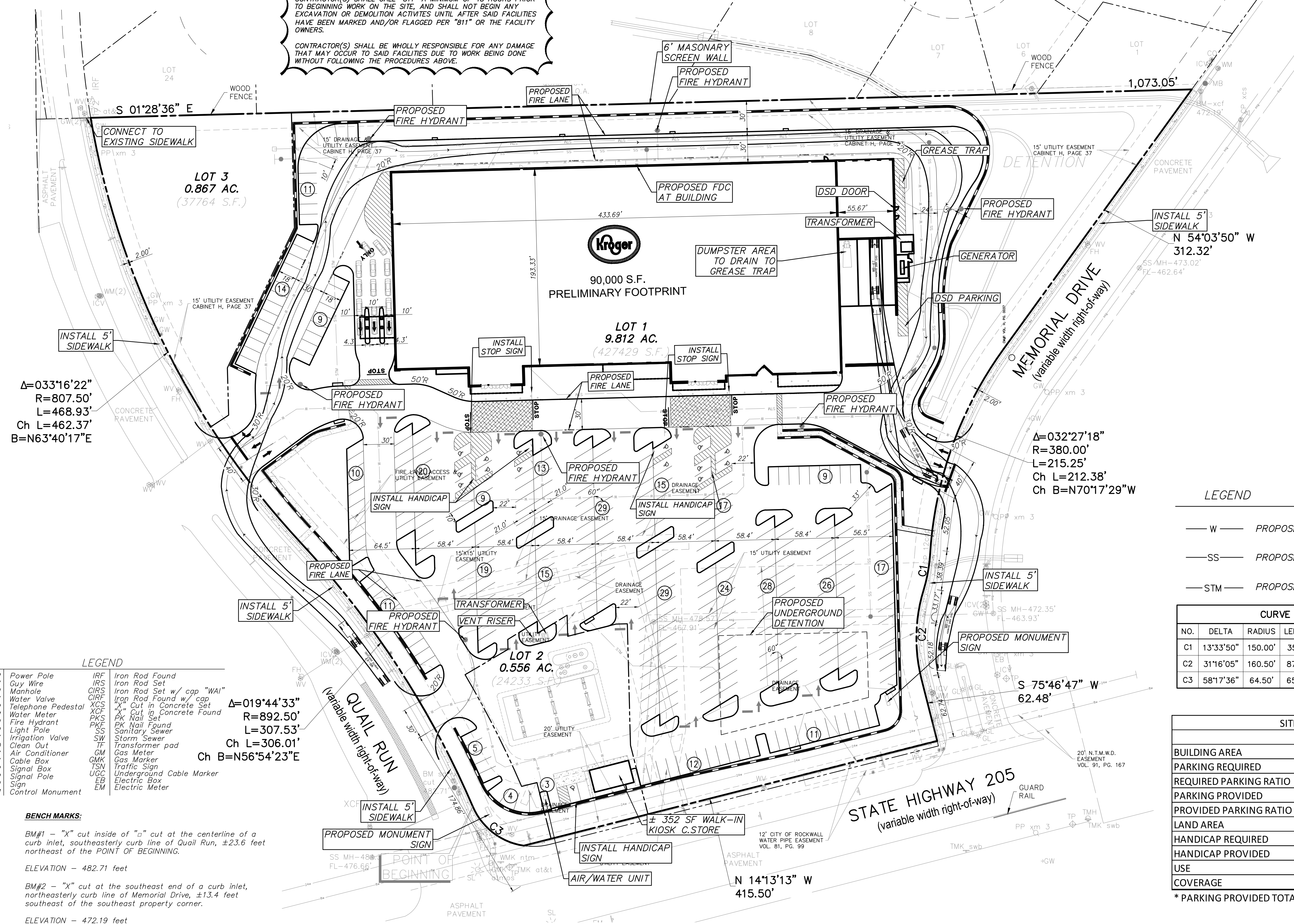
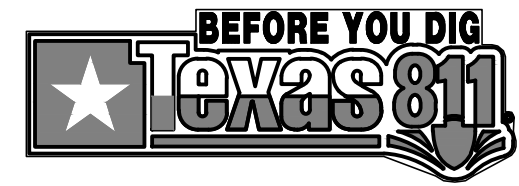
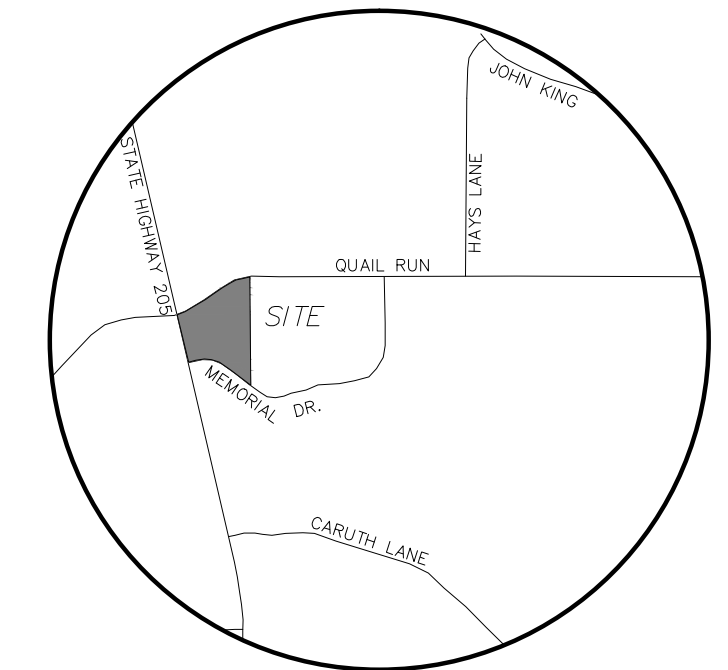
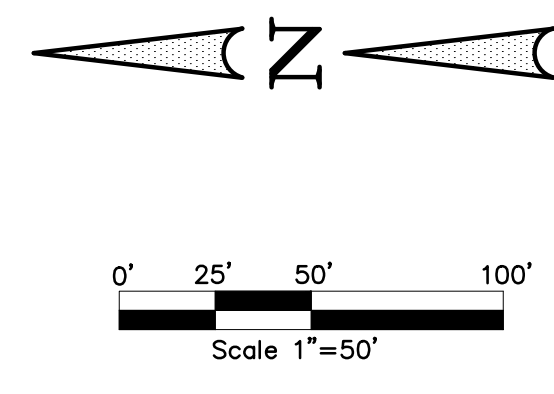
**\*\*\*NOTICES TO CONTRACTOR\*\*\***

EXISTING UNDERGROUND/BURIED PUBLIC, PRIVATE, AND FRANCHISE UTILITIES/FACILITIES AFFECT THIS SITE, AND ARE DEPICTED ON THE PLANS PER THE BEST AVAILABLE INFORMATION AT THE TIME THE PLANS WERE PRODUCED. WINKELMANN & ASSOC., INC. SHALL NOT BE RESPONSIBLE FOR KNOWING THE EXACT LOCATION OF ALL FACILITIES OR DEPICTING EXACT LOCATIONS OF SAID FACILITIES ON THE PLANS BEYOND WHAT IS STATED ABOVE.

CONTRACTOR(S) SHALL CALL "811" A MINIMUM OF 48 HOURS PRIOR TO BEGINNING WORK ON THE SITE, AND SHALL NOT BEGIN ANY EXCAVATION OR DEMOLITION ACTIVITIES UNTIL AFTER SAID FACILITIES HAVE BEEN MARKED AND/OR FLAGGED PER "811" OR THE FACILITY OWNERS.

CONTRACTOR(S) SHALL BE WHOLLY RESPONSIBLE FOR ANY DAMAGE THAT MAY OCCUR TO SAID FACILITIES DUE TO WORK BEING DONE WITHOUT FOLLOWING THE PROCEDURES ABOVE.

- NOTES**
- DUMPSTERS, BUILDING, STRUCTURES, AND/OR OVERHANGS SHALL NOT BE IN RIGHT-OF-WAY, EASEMENTS, AND/OR FIRE LANES
  - DRAINAGE FROM FUEL CENTER GAS PUMP AREA (UNDER CANOPY) IS TO DRAIN THROUGH A OIL/WATER SEPARATOR PRIOR TO DRAINING INTO STORM SYSTEM
  - ALL DRIVE AISLES ARE A MINIMUM OF 24' WIDE
  - NO STRUCTURES OR OVERHANGS IN ANY EASEMENTS
  - ALL EASEMENTS FOR EXISTING UTILITIES SHOWN HERON ARE BY PLAT RECORDED IN CABINET H, SLIDE 37, UNLESS OTHERWISE NOTED



$\Delta=033'16'22''$   
 $R=807.50'$   
 $L=468.93'$   
 $Ch L=462.37'$   
 $B=N63'40'17''E$

$\Delta=032'27'18''$   
 $R=380.00'$   
 $L=215.25'$   
 $Ch L=212.38'$   
 $Ch B=N70'17'29''W$

$\Delta=019'44'33''$   
 $R=892.50'$   
 $L=307.53'$   
 $Ch L=306.01'$   
 $Ch B=N56'54'23''E$

**LEGEND**

- W — PROPOSED WATER
- SS — PROPOSED SANITARY SEWER
- STM — PROPOSED STORM

**CURVE TABLE**

NO.	DELTA	RADIUS	LENGTH	CH. L	CH. B
C1	13°33'50"	150.00'	35.51'	35.43'	N79°44'12"W
C2	31°16'05"	160.50'	87.59'	86.51'	N88°35'08"W
C3	58°17'36"	64.50'	65.62'	62.83'	N37°38'05"E

**SITE DATA TABLE**

	KROGER LOT 1	FUEL LOT 2
BUILDING AREA	90,000 SF	352 SF
PARKING REQUIRED	360 SPACES	2 SPACES
REQUIRED PARKING RATIO	4:1	4:1
PARKING PROVIDED	360 SPACES	3 SPACES
PROVIDED PARKING RATIO	4:1	8.5:1
LAND AREA	9.812 ACRES	0.556 ACRES
HANDICAP REQUIRED	9 SPACES	1 SPACES
HANDICAP PROVIDED	14 SPACES	1 SPACES
USE	GROCERY	FUEL
COVERAGE	21.06 %	1.45 %

\* PARKING PROVIDED TOTAL INCLUDES HC PARKING

- LEGEND**
- PP Power Pole
  - GW Guy Wire
  - MH Manhole
  - WV Water Valve
  - WP Telephone Pedestal
  - WM Water Meter
  - FH Fire Hydrant
  - LP Light Pole
  - IV Irrigation Valve
  - CO Clean Out
  - AC Air Conditioner
  - TV Cable Box
  - SB Signal Box
  - SP Signal Pole
  - SN Sign
  - CM Control Monument
  - IRF Iron Rod Found
  - IRS Iron Rod Set
  - CIRS Iron Rod Set w/ cap "WAI"
  - WV Iron Rod Found w/ cap
  - XOS X Cut in Concrete Set
  - XCF X Cut in Concrete Found
  - PKS PK Nail Set
  - PKF PK Nail Found
  - SS Sanitary Sewer
  - SW Storm Sewer
  - IF Transformer pad
  - GM Gas Meter
  - GK Gas Marker
  - TSN Traffic Sign
  - UGC Underground Cable Marker
  - EB Electric Box
  - EM Electric Meter

**BENCH MARKS:**

BM#1 - "X" cut inside of "a" cut at the centerline of a curb inlet, southeasterly curb line of Quail Run, ±23.6 feet northeast of the POINT OF BEGINNING.

ELEVATION - 482.71 feet

BM#2 - "X" cut at the southeast end of a curb inlet, northeasterly curb line of Memorial Drive, ±13.4 feet southeast of the southeast property corner.

ELEVATION - 472.19 feet

LAST SAVED BY: WINKELMANN April 17, 2015

No.	DATE	REVISION	APPROVED
1.	04/06/2015	1ST CITY RESUBMITTAL	MB
2.			
3.			
4.			
5.			
6.			

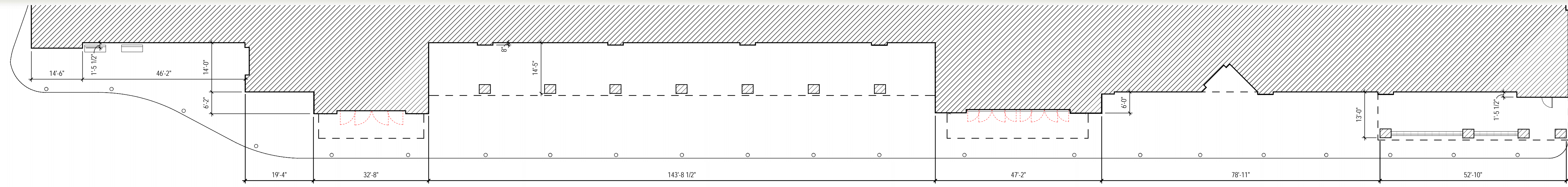
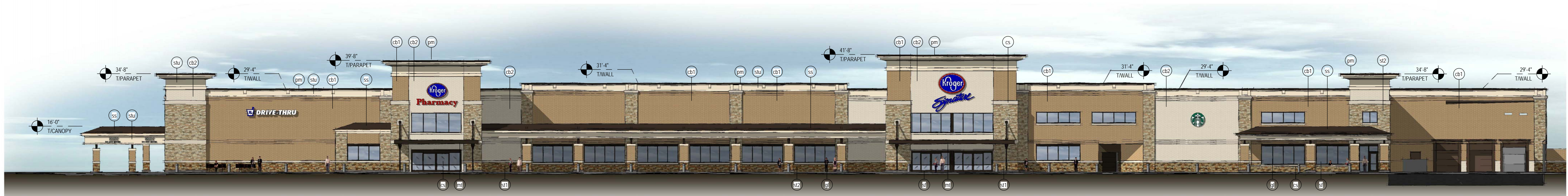
**Winkelmann & Associates, Inc.**  
CONSULTING CIVIL ENGINEERS • SURVEYORS  
7020 HILGRET PLAZA DRIVE, SUITE 325  
ROCKWALL, TEXAS 75087  
(972) 940-7090  
(972) 940-7099 FAX  
Professional Registration No. 1018666-00  
Surveyors Registration No. 1018666-00  
Professional Engineer Registration No. 1018666-00

**STATE OF TEXAS**  
**PROFESSIONAL ENGINEER**  
**04-09-2015**

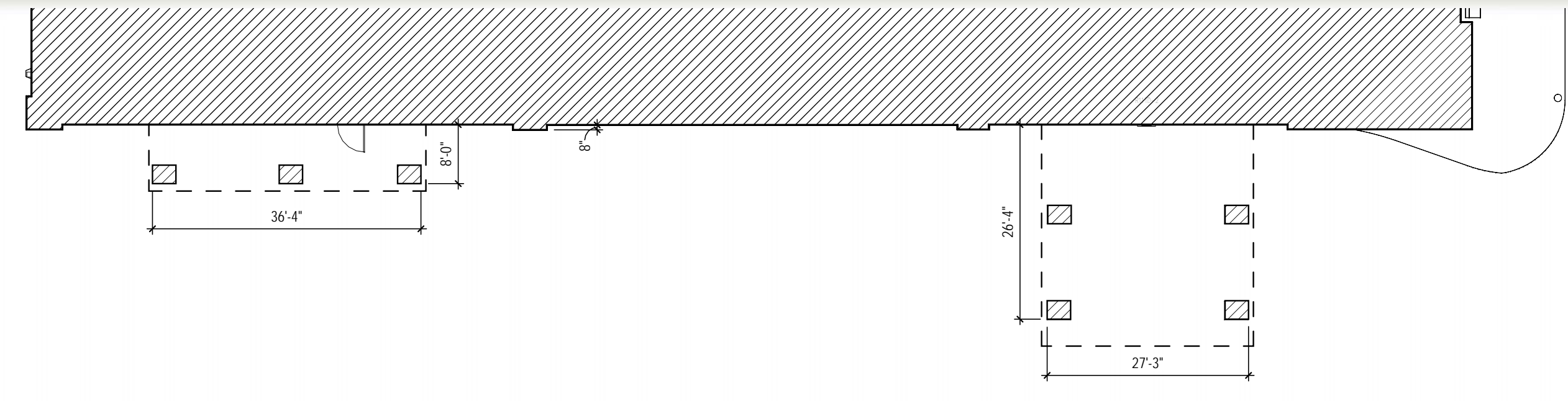
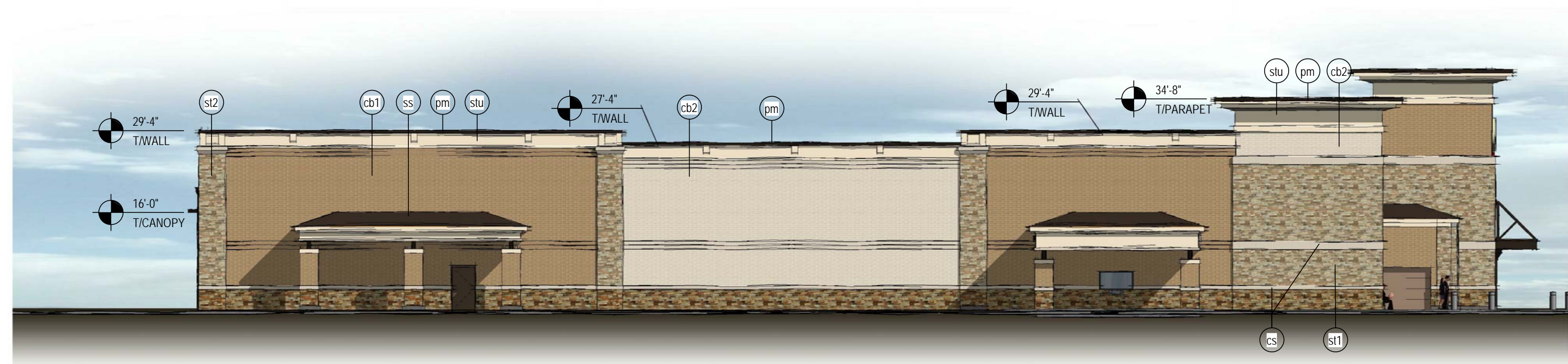
**SITE PLAN**  
**SW574**  
**SEC N. GOLIAD ST. AND E. QUAIL**  
**RUN RD.,**  
**ROCKWALL, TEXAS**

C-1.0

SP2015-007



WEST ELEVATION



NORTH ELEVATION

Buildings over fifty thousand (50,000) square feet and under one-hundred thousand (100,000) square feet must include a minimum of six (6) architectural elements.

Architectural Elements Provided:

- Canopies
- Recesses/projections
- Outdoor patios
- Articulated ground floor levels or base
- Articulated cornice line
- Varied roof heights

FINISH SCHEDULE

(s1) Cultured Stone Veneer Texas Stone Design Inc. - Palo Pinto Cobble	(mr) Mortar Amerimix - Light Tan
(s2) Cultured Stone Veneer Texas Stone Design Inc. - Granbury Cobble	(stu) Stucco Oyster Shell
(cb1) Architectural Concrete Block Oldcastle - Quik Brik - Autumn Blend - 4"	(ss) Standing Seam Metal Roof Dark Bronze
(cb2) Architectural Concrete Block Oldcastle - Quik Brik - Artic White - 4"	(mt) Exposed Metal Paint to match "pm"
(cb3) Architectural Concrete Block Oldcastle - Quik Brik - Autumn Blend - 8" spilt	(pm) Prefinished Metal Dark Bronze
(cb4) Architectural Concrete Block Oldcastle - Quik Brik - Artic White - 8" spilt	(sf) Dark Bronze
(cs) Continental Cast Stone 1103 St. Thomas Tan	(gl) Glazing

Material Percentages		
West		
Masonry		
Quik Brik	58.3%	90.5%
Stone	20.2%	
Stucco	12.0%	
Secondary Materials		
Metal	5.5%	9.5%
Cast Stone	4.0%	

Material Percentages		
North		
Masonry		
Quik Brik	55.0%	92.5%
Stone	23.9%	
Stucco	13.6%	
Secondary Materials		
Metal	4.2%	7.5%
Cast Stone	3.3%	



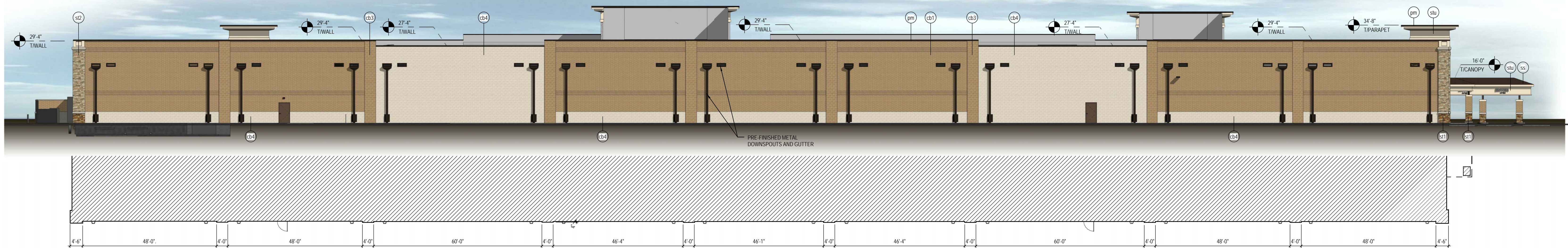
April 16, 2015

Kroger Store SW574

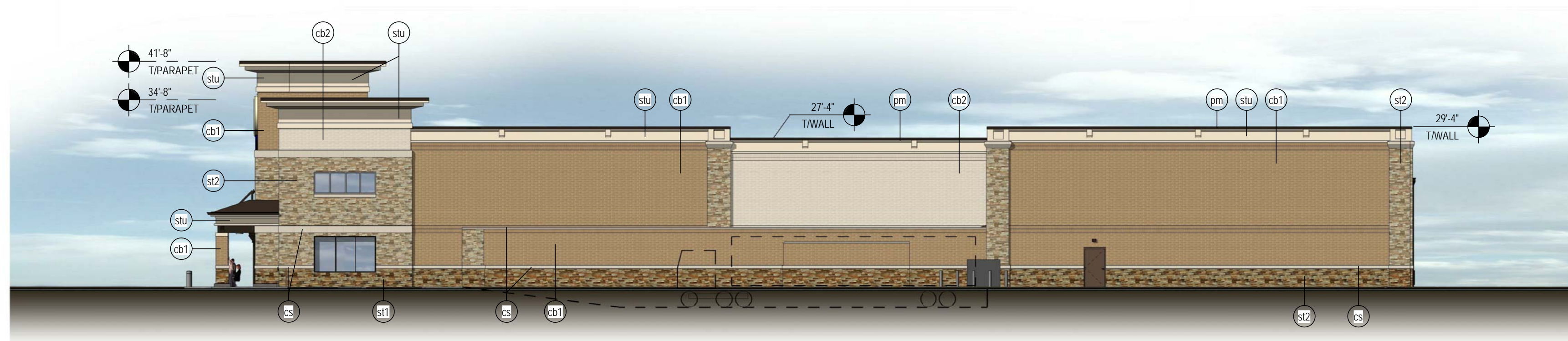
Rockwall, TX  
K515406



SP2015-007



EAST ELEVATION



SOUTH ELEVATION

Buildings over fifty thousand (50,000) square feet and under one-hundred thousand (100,000) square feet must include a minimum of six (6) architectural elements.

Architectural Elements Provided:

- Canopies
- Recesses/projections
- Outdoor patios
- Articulated ground floor levels or base
- Articulated cornice line
- Varied roof heights

FINISH SCHEDULE

- |   |  |
|---|--|
| (sl1) Cultured Stone Veneer<br>Texas Stone Design Inc. - Palo Pinto Cobble            | (mf) Mortar<br>Amerimix - Light Tan          |
| (sl2) Cultured Stone Veneer<br>Texas Stone Design Inc. - Granbury Cobble              | (stu) Stucco<br>Oyster Shell                 |
| (cb1) Architectural Concrete Block<br>Oldcastle - Quik Brik - Autumn Blend - 4"       | (sl) Standing Seam Metal Roof<br>Dark Bronze |
| (cb2) Architectural Concrete Block<br>Oldcastle - Quik Brik - Arctic White - 4"       | (ml) Exposed Metal<br>Paint to match "pm"    |
| (cb3) Architectural Concrete Block<br>Oldcastle - Quik Brik - Autumn Blend - 8" split | (pm) Prefinished Metal<br>Dark Bronze        |
| (cb4) Architectural Concrete Block<br>Oldcastle - Quik Brik - Arctic White - 8" split | (sf) Dark Bronze                             |
| (cs) Continental Cast Stone<br>1103 St. Thomas Tan                                    | (gl) Glazing                                 |

Material Percentages		
East		
Masonry		
Quik Brik	57.0%	98.0%
Stone	2.0%	
Stucco	2.0%	
Split-face CMU	37.0%	
Secondary Materials		
Metal	1.99%	2.00%
Cast Stone	0.01%	

Material Percentages		
South		
Masonry		
Quik Brik	60.2%	95.4%
Stone	20.6%	
Stucco	14.0%	
Split-face CMU	0.6%	
Secondary Materials		
Metal	1.5%	4.6%
Cast Stone	3.1%	



April 16, 2015

Kroger Store SW574

Rockwall, TX  
K515406



SP2015-007



1 VIEW FROM THE CORNER OF QUAIL RUN RD. AND SH 205



2 VIEW FROM SH 205



3 VIEW FROM MEMORIAL DRIVE



4 VIEW FROM QUAIL RUN RD.



April 16, 2015

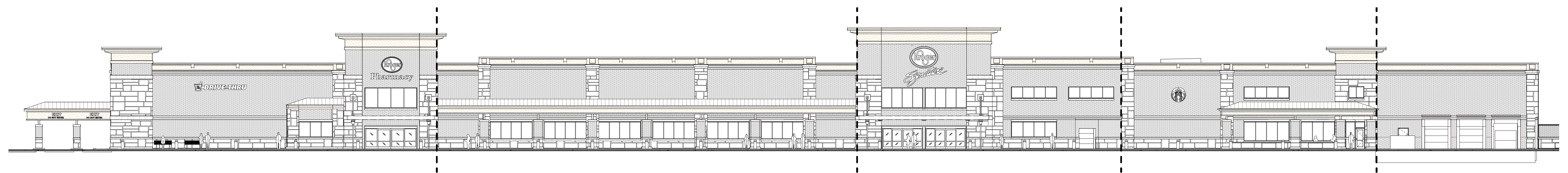
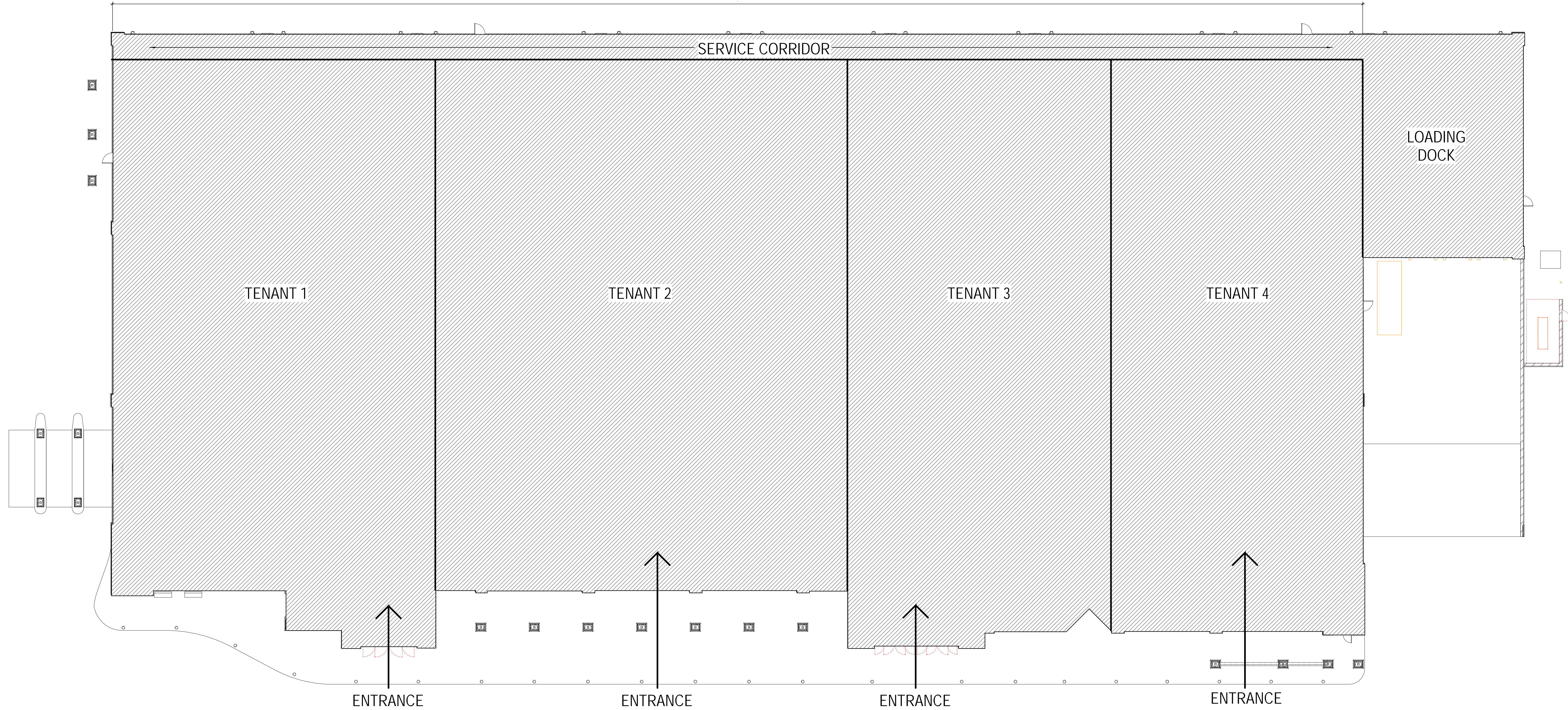
Kroger Store SW574

Rockwall, TX  
K515406



SP2015-007

EXITS POSSIBLE OUT REAR OF BUILDING ALL ALONG SERVICE CORRIDOR



April 16, 2015

Kroger Store SW574

Rockwall, TX  
K515406



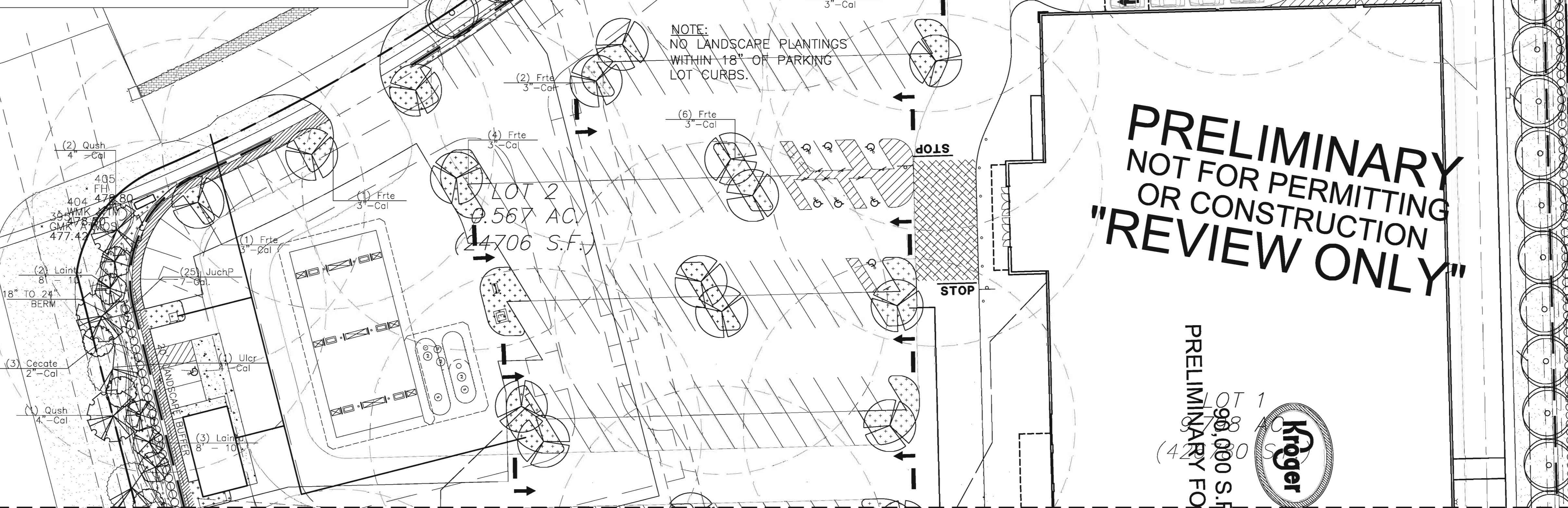
SP2015-007

CITY OF ROCKWALL LANDSCAPE REQUIREMENTS		
LANDSCAPE BUFFER	10' LANDSCAPE BUFFER STRIP REQUIRED ALONG PERIMETER	
	REQUIRED	PROVIDED
STREET LANDSCAPING	1 CANOPY TREE FOR EACH 50' OF STREET FRONTAGE	
	REQUIRED (GOLIAD ST)	PROVIDED
	478'/50 = 10 TREES	10 TREES
	REQUIRED (QUAIL RUN)	PROVIDED
	795'/50 = 16 TREES	16 TREES
PARKING LOT LANDSCAPING	5% OR 200 SF (WHICHEVER IS GREATER) IN INTERIOR LANDSCAPING	
	REQUIRED	PROVIDED
PARKING LOT TREES	IF PARKING EXCEEDS 20,000 SF THEN 1 TREE PER 10 SPACES	
	REQUIRED	PROVIDED
LANDSCAPE AREA	REQUIRED 15% OF TOTAL SITE IN LANDSCAPE AREA	
	REQUIRED	PROVIDED
LANDSCAPE AREA	50% OF REQUIRED LANDSCAPE AREA IN FRONT YARD	
	REQUIRED	PROVIDED
DETENTION AREA REQUIRED TREES	ONE (1) TREE PER 750 SQ FT OF DETENTION AREA	
	REQUIRED	PROVIDED

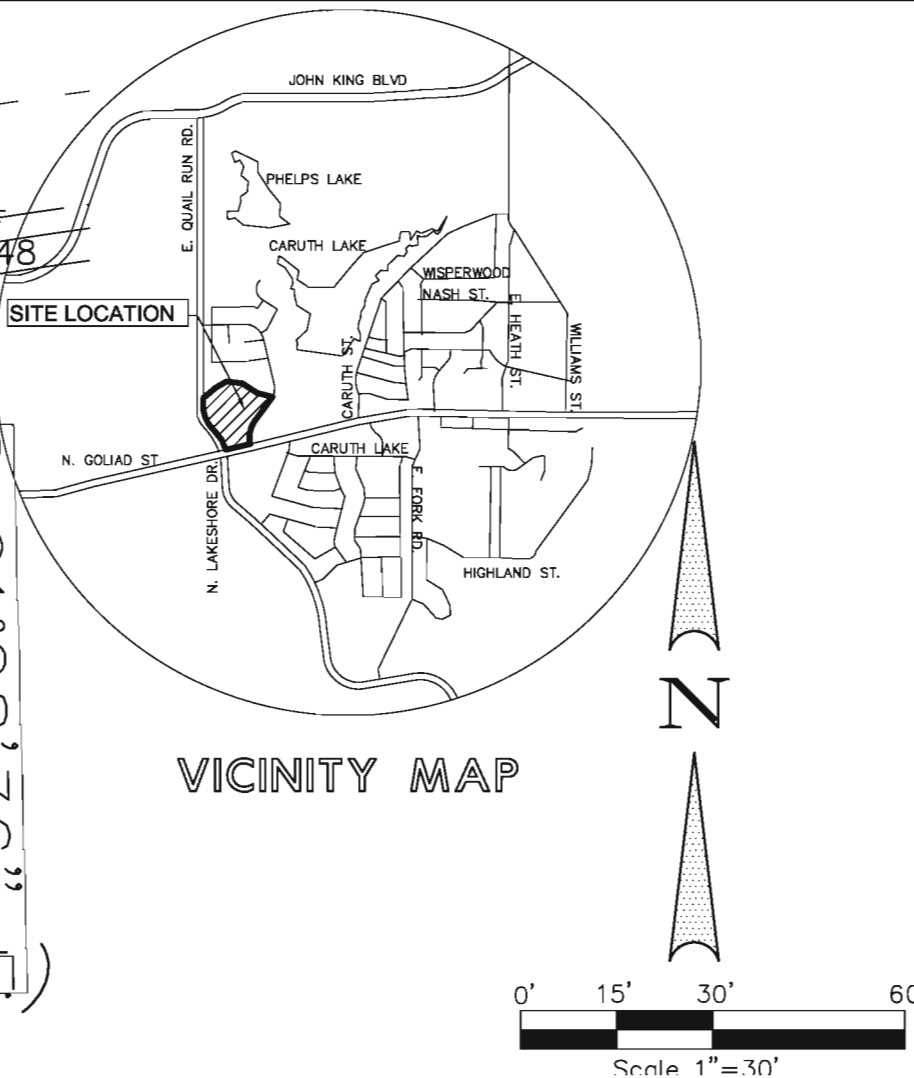
OVERLAY DISTRICT LANDSCAPE REQUIREMENTS		
STREET LANDSCAPING	(3) 4" CANOPY TREES AND 4 ACCENT TREES FOR EACH 100' OF STREET FRONTAGE	
	REQUIRED (GOLIAD ST)	PROVIDED
	478'/100 X 3 = 14 TREES	14 TREES
	478'/100 X 4 = 19 ACCENT TREES	19 TREES
	20' LANDSCAPE BUFFER	
BUILT UP BERM AND/OR SHRUBS 30" - 48" MAX.		

**NOTE:**

- NO TREES SHALL BE PLANTED WITHIN 5' (HORIZONTALLY) FROM ANY PUBLIC UTILITY
- FOR ALL PLANTING ALONG 18" (LENGTH PARKING SPACES: ALL PLANTS MUST BE PLANTED A MINIMUM OF 4' FROM BACK OF CURB)



33 16 22  
 $R = 807.50'$   
 $= 468.93'$   
 $= 462.37'$   
 $3^{\circ}40'17'' E$



- PLANTING NOTES:**
- PRIOR TO PLANTING, CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT TO APPROVE NEW TREES ON SITE. LANDSCAPE ARCHITECT SHALL MAKE ONE TRIP TO SITE TO INSPECT TREES. ALL TREES SHALL BE STORED AND HELD IF REQUIRED PRIOR TO CONTACTING LANDSCAPE ARCHITECT FOR INSPECTION.
  - ALL PLANT MATERIAL TO BE NURSERY GROWN STOCK.
  - CONTRACTOR RESPONSIBLE FOR MAINTENANCE OF ALL PLANT MATERIAL UNTIL PROJECT ACCEPTANCE.
  - ALL CONTAINER GROWN PLANTS TO HAVE FULL, VIGOROUS ROOT SYSTEM, COMPLETELY ENCOMPASSING CONTAINER.
  - ALL PLANTS WELL ROUNDED AND FULLY BRANCHED. ALL TREES WITH SPREAD 2/3 OF HEIGHT.
  - CONTRACTOR TO PROVIDE OWNER WITH PREFERRED MAINTENANCE SCHEDULE OF ALL PLANTS AND LAWNS.
  - MAINTAIN/PROTECT VISIBILITY TRIANGLE WITH PLANT MATERIAL PER CITY STANDARDS AT ALL ENTRANCES TO SITE.
  - PREP ENTIRE WIDTH OF ALL DEFINED PLANTING BEDS WITH MIX AS OUTLINED IN SPECS. WHERE SHRUBS ARE LOCATED ALONG CURB, SET SHRUBS BACK FROM CURB 3 FT.
  - SEE DETAIL SHEET L-8 FOR PLANTING DETAILS.
  - CONTRACTOR RESPONSIBLE FOR LOCATION OF ALL UTILITIES, INCLUDING BUT NOT LIMITED TO TELEPHONE, TELECABLE, ELECTRIC, GAS, WATER AND SEWER. ANY DAMAGE TO UTILITIES TO BE REPAIRED BY CONTRACTOR AT NO COST TO OWNER.
  - EXISTING TREES ARE SHOWN TO REMAIN, CONTRACTOR SHALL PRUNE WITH APPROVAL OF OWNER AND CITY ARBORIST. WORK TO INCLUDE REMOVAL OF ALL SUCKER GROWTH; DEAD AND DISEASED BRANCHES AND LIMBS; VINES, BRIARS AND OTHER INVASIVE GROWTH; AND ALL INTERFERING BRANCHES, AS WELL AS BRANCHES THAT OBSTRUCT SIGN VISIBILITY. MAKE ALL CUTS FLUSH TO REMAINING LIMB. RETAIN NATURAL SHAPE OF PLANT. ALL WORK SUBJECT TO APPROVAL OF OWNER'S REPRESENTATIVE.
  - QUANTITIES ARE PROVIDED AS A COURTESY AND NOT INTENDED FOR BID PURPOSES. CONTRACTOR TO VERIFY PRIOR TO PRICING.
  - INSTALL EDGING BETWEEN LAWN AND PLANTING BEDS. REFER TO SPECIFICATIONS. FILE ALL CORNERS SMOOTH.
  - INSTALL CURLEX BLANKET (OR EQUAL) PER MANUFACTURER'S INSTRUCTIONS ON ALL GROUND COVER/SHRUB BEDS WITH A SLOPE OF 4:1 OR GREATER.
  - AT TIME OF PLAN PREPARATION, SEASONAL PLANT AVAILABILITY CANNOT BE DETERMINED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SECURE AND RESERVE ALL B&B PLANTS WHEN AVAILABLE IN CASE ACTUAL INSTALLATION OCCURS DURING THE OFF-SEASON. PURCHASE AND HOLD B&B PLANTS FOR LATE SEASON INSTALLATION.
  - BERM ALL PARKING LOT ISLANDS AS SHOWN ON ENCLOSED DETAIL SHEET. (BERMS MAY NOT BE SHOWN ON GRADING PLAN.)
  - PRIOR TO TREE PLANTING, CONTRACTOR SHALL STAKE TREE LOCATIONS FOR APPROVAL BY OWNER.

**CAUTION!!!**  
 UNDERGROUND UTILITIES ARE LOCATED IN THIS AREA. 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITIES, CONTACT LINE LOCATES FOR FRANCHISE UTILITY INFO. CALL BEFORE YOU DIG:  
 TEXAS EXCAVATION SAFETY SYSTEM (TESS)  
 1-800-344-8377  
 TEXAS ONE CALL SYSTEMS  
 1-800-245-4545  
 LONE STAR NOTIFICATION CENTER  
 1-800-669-8344 EXT. 5

BEFORE YOU DIG...

**FAIN • CUPPETT**  
**LANDSCAPE ARCHITECTS, LLC**  
 8233 8th Street Blvd, Suite B  
 North Richland Hills, TX 75182-4761  
 PARKS AND OPEN SPACE PLANNING • LANDSCAPE ARCHITECTURE • IRRIGATION DESIGN



**Winkelmann & Associates, Inc.**  
 CONSULTING CIVIL ENGINEERS ■ SURVEYORS  
 6750 HILLCREST PLAZA DRIVE, SUITE 305  
 ROCKWALL, TEXAS 75087  
 (972) 492-7000 FAX  
 (972) 492-7099  
 Texas Engineers Registration No. 89  
 Texas Surveyors Registration No. 100866-00  
 Contract No. 2016, Winkelmann & Associates, Inc.

LANDSCAPE PLAN  
 SEC N. GOLIAD ST. AND E.  
 QUAIL RUN RD.  
 ROCKWALL, TEXAS

DATE: \_\_\_\_\_  
 REVISION: \_\_\_\_\_  
 APPROV: \_\_\_\_\_

MATCH LINE, SHEET L-2

REF SHEET L-3 FOR PLANT LEGEND

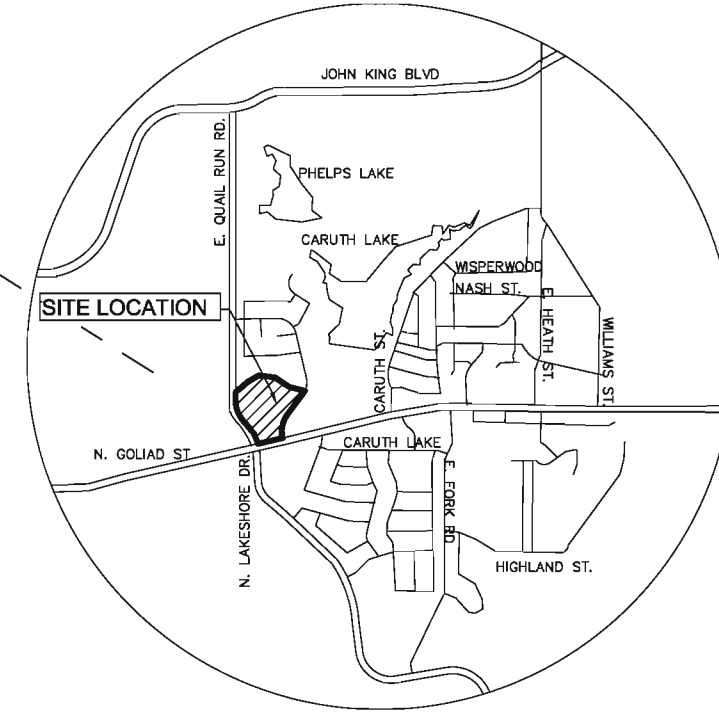
**PRELIMINARY  
 NOT FOR PERMITTING  
 OR CONSTRUCTION  
 "REVIEW ONLY"**

LOT 1  
 998,000 S.F.  
 PRELIMINARY FO

THIS ELECTRONIC DRAWING FILE IS RELEASED UNDER THE AUTHORITY OF GREG CUPPETT, LANDSCAPE ARCHITECT REGISTRATION NUMBER 2012 ON 04/07/15. WHO MAINTAINS THE ORIGINAL FILE. THIS ELECTRONIC DRAWING FILE MAY BE USED AS A BACKGROUND DRAWING PURSUANT TO RULE 3.103(F) OF THE RULES AND REGULATIONS OF THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS. THE USER OF THIS ELECTRONIC DRAWING FILE AGREES TO ASSUME ALL RESPONSIBILITY FOR ANY MODIFICATION TO OR USE OF THIS DRAWING FILE THAT IS INCONSISTENT WITH THE REQUIREMENTS OF THE RULES AND REGULATIONS OF THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS. NO PERSON MAY MAKE MODIFICATIONS TO THIS ELECTRONIC DRAWING FILE WITHOUT THE LANDSCAPE ARCHITECT'S EXPRESS WRITTEN PERMISSION.

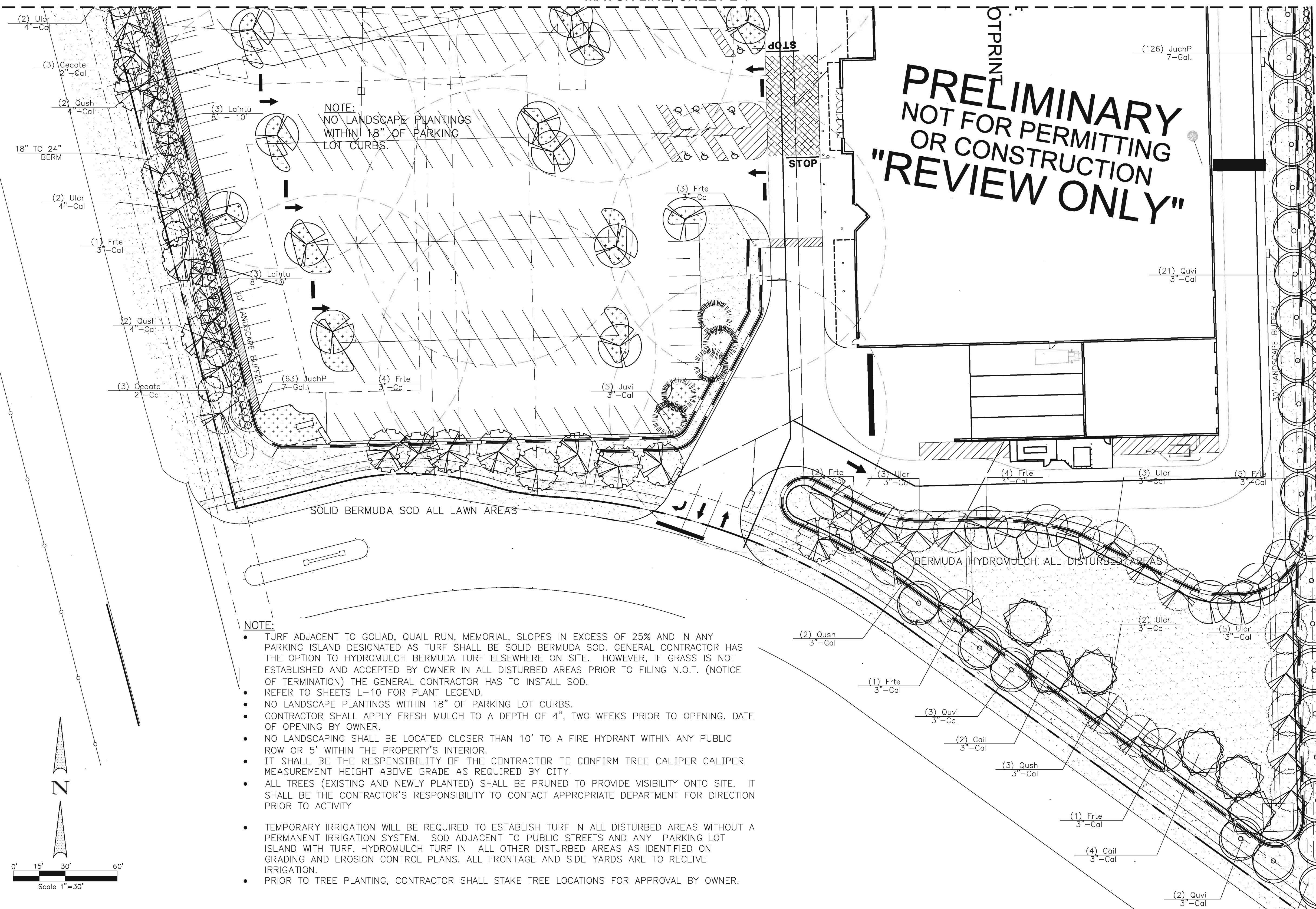
MATCH LINE, SHEET L-1

PRELIMINARY  
NOT FOR PERMITTING  
OR CONSTRUCTION  
"REVIEW ONLY"



VICINITY MAP

**CAUTION!!!**  
UNDERGROUND UTILITIES ARE LOCATED IN THIS AREA. 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITIES, CONTACT LINE LOCATES FOR FRANCHISE UTILITY INFO. CALL BEFORE YOU DIG.  
TEXAS EXCAVATION SAFETY SYSTEM (TESS) 1-800-344-8377  
TEXAS ONE CALL SYSTEMS 1-800-245-4545  
LONE STAR NOTIFICATION CENTER 1-800-669-9344 EXT. 5  
**BEFORE YOU DIG...**



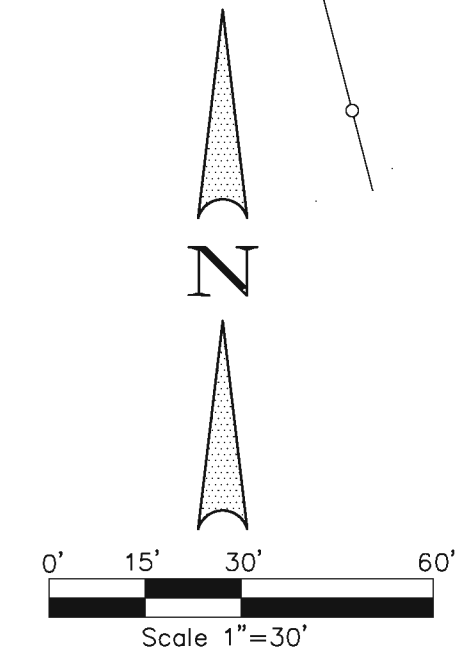
NOTE:  
NO LANDSCAPE PLANTINGS WITHIN 18" OF PARKING LOT CURBS.

SOLID BERMUDA SOD ALL LAWN AREAS

BERMUDA HYDROMULCH ALL DISTURBED AREAS

**NOTE:**

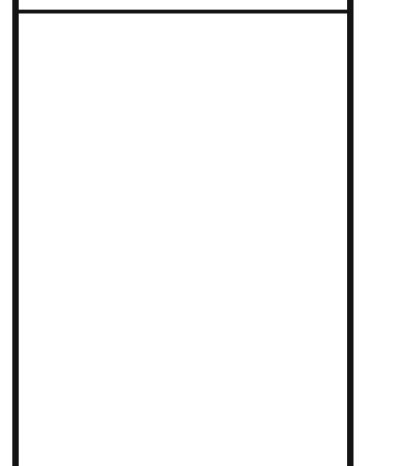
- TURF ADJACENT TO GOLIAD, QUAIL RUN, MEMORIAL, SLOPES IN EXCESS OF 25% AND IN ANY PARKING ISLAND DESIGNATED AS TURF SHALL BE SOLID BERMUDA SOD. GENERAL CONTRACTOR HAS THE OPTION TO HYDROMULCH BERMUDA TURF ELSEWHERE ON SITE. HOWEVER, IF GRASS IS NOT ESTABLISHED AND ACCEPTED BY OWNER IN ALL DISTURBED AREAS PRIOR TO FILING N.O.T. (NOTICE OF TERMINATION) THE GENERAL CONTRACTOR HAS TO INSTALL SOD.
- REFER TO SHEETS L-10 FOR PLANT LEGEND.
- NO LANDSCAPE PLANTINGS WITHIN 18" OF PARKING LOT CURBS.
- CONTRACTOR SHALL APPLY FRESH MULCH TO A DEPTH OF 4", TWO WEEKS PRIOR TO OPENING. DATE OF OPENING BY OWNER.
- NO LANDSCAPING SHALL BE LOCATED CLOSER THAN 10' TO A FIRE HYDRANT WITHIN ANY PUBLIC ROW OR 5' WITHIN THE PROPERTY'S INTERIOR.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM TREE CALIPER MEASUREMENT HEIGHT ABOVE GRADE AS REQUIRED BY CITY.
- ALL TREES (EXISTING AND NEWLY PLANTED) SHALL BE PRUNED TO PROVIDE VISIBILITY ONTO SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT APPROPRIATE DEPARTMENT FOR DIRECTION PRIOR TO ACTIVITY
- TEMPORARY IRRIGATION WILL BE REQUIRED TO ESTABLISH TURF IN ALL DISTURBED AREAS WITHOUT A PERMANENT IRRIGATION SYSTEM. SOD ADJACENT TO PUBLIC STREETS AND ANY PARKING LOT ISLAND WITH TURF. HYDROMULCH TURF IN ALL OTHER DISTURBED AREAS AS IDENTIFIED ON GRADING AND EROSION CONTROL PLANS. ALL FRONTAGE AND SIDE YARDS ARE TO RECEIVE IRRIGATION.
- PRIOR TO TREE PLANTING, CONTRACTOR SHALL STAKE TREE LOCATIONS FOR APPROVAL BY OWNER.



No.	DATE	REVISION	APPROV.
6.			
5.			
4.			
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1.			

**Winkelmann & Associates, Inc.**  
CONSULTING CIVIL ENGINEERS ■ SURVEYORS  
6750 HILLCREST PLAZA DRIVE, SUITE 325  
DALLAS, TEXAS 75231  
Texas Engineers Registration No. 89  
Texas Surveyors Registration No. 100986-00  
Certification of Survey Management & Associates, Inc.

(972) 490-7000  
(972) 490-1099  
(972) 490-1098 FAX



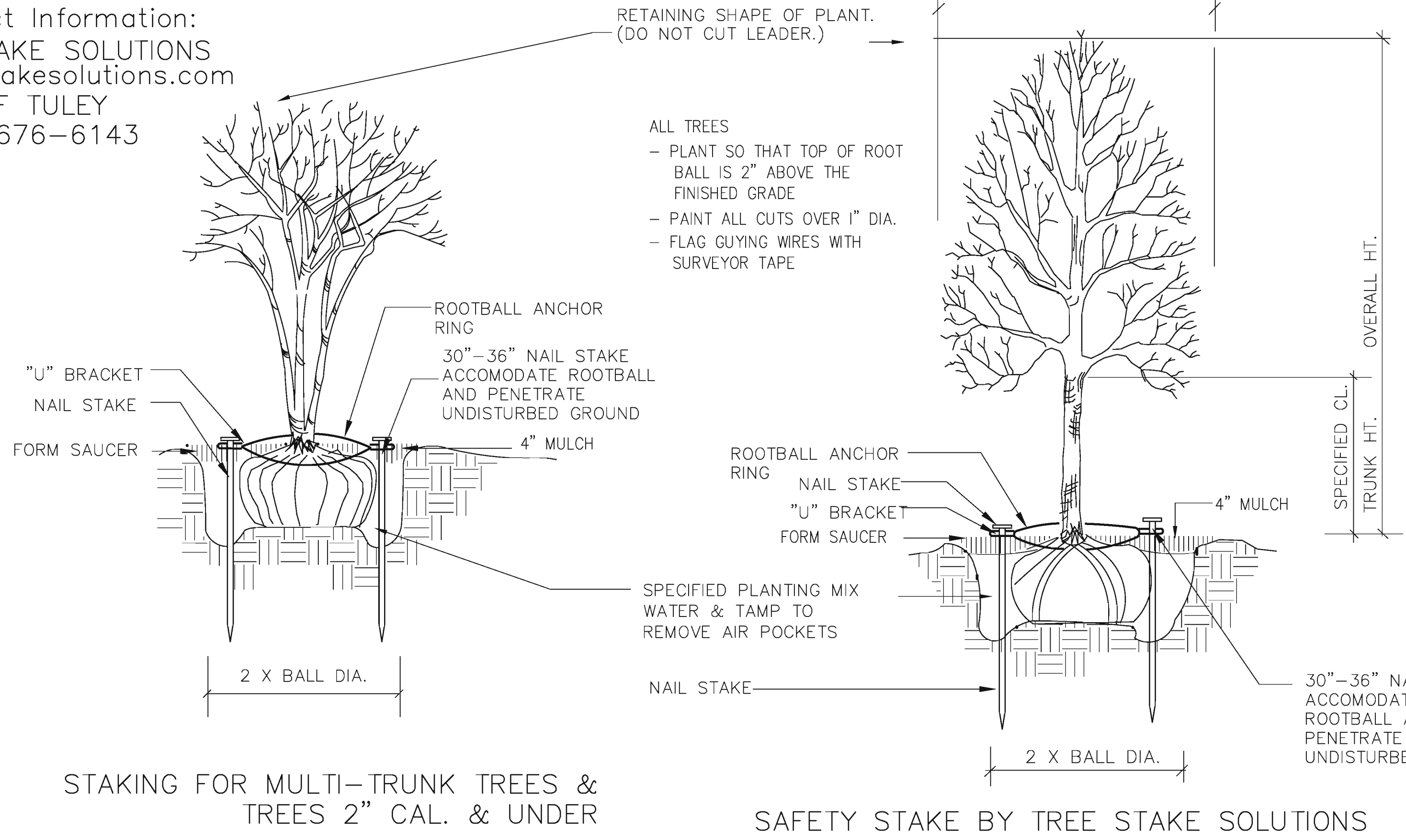
LANDSCAPE PLAN  
SEC N. GOLIAD ST. AND E.  
QUAIL RUN RD.  
ROCKWALL, TEXAS

**FAIN • CUPPETT**  
**LANDSCAPE ARCHITECTS, LLC**  
Professional Firm, TX 78162-4761  
PARKS AND OTHER SPACE PLANNING • LANDSCAPE ARCHITECTURE • IRRIGATION DESIGN

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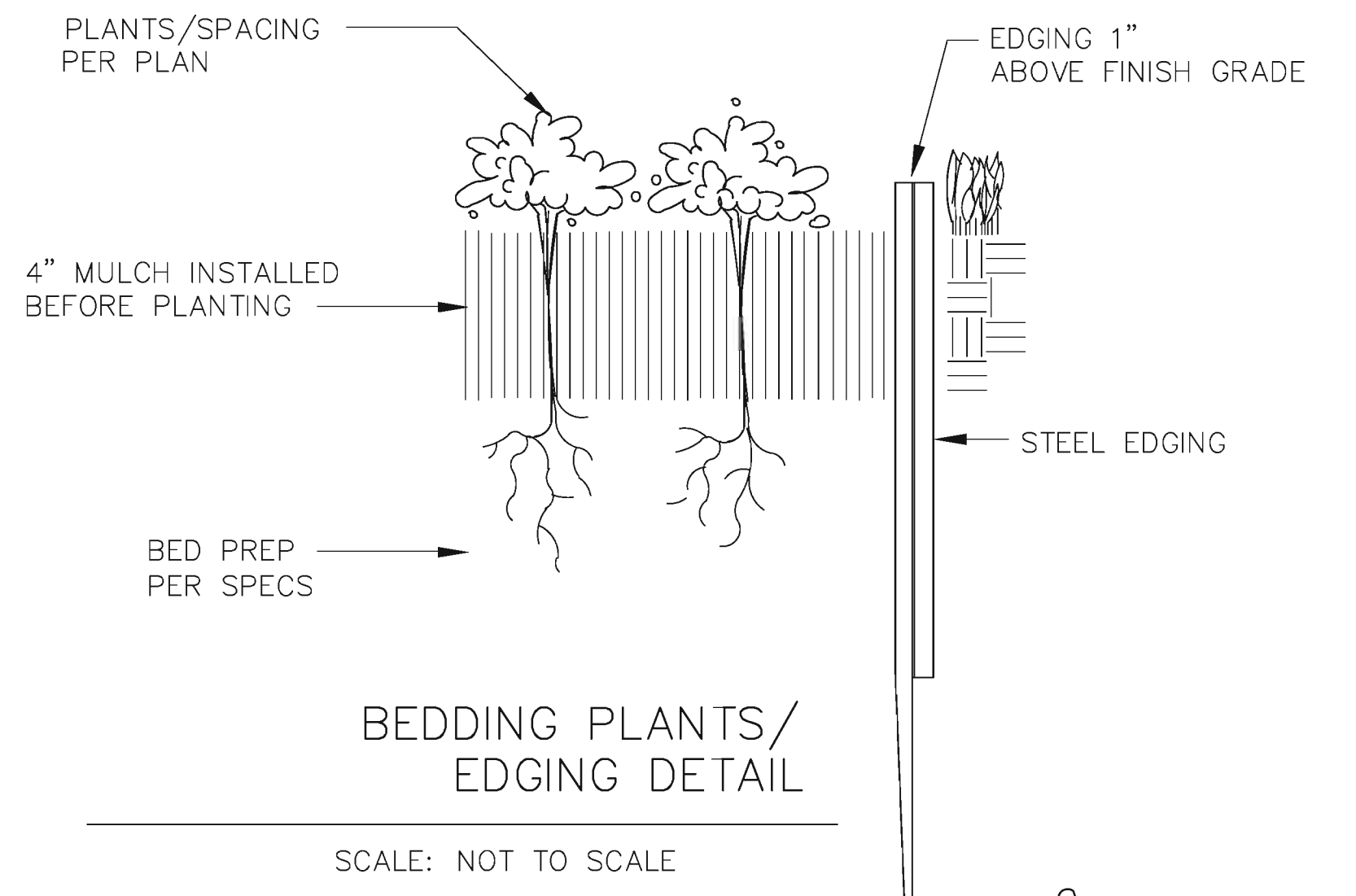
REF SHEET L-1 FOR PLANTING NOTES  
AND L-3 FOR PLANT LEGEND

Contact Information:  
**TREE STAKE SOLUTIONS**  
 www.treestakesolutions.com  
 JEFF TULEY  
 903-676-6143



STAKING FOR MULTI-TRUNK TREES & TREES 2" CAL. & UNDER

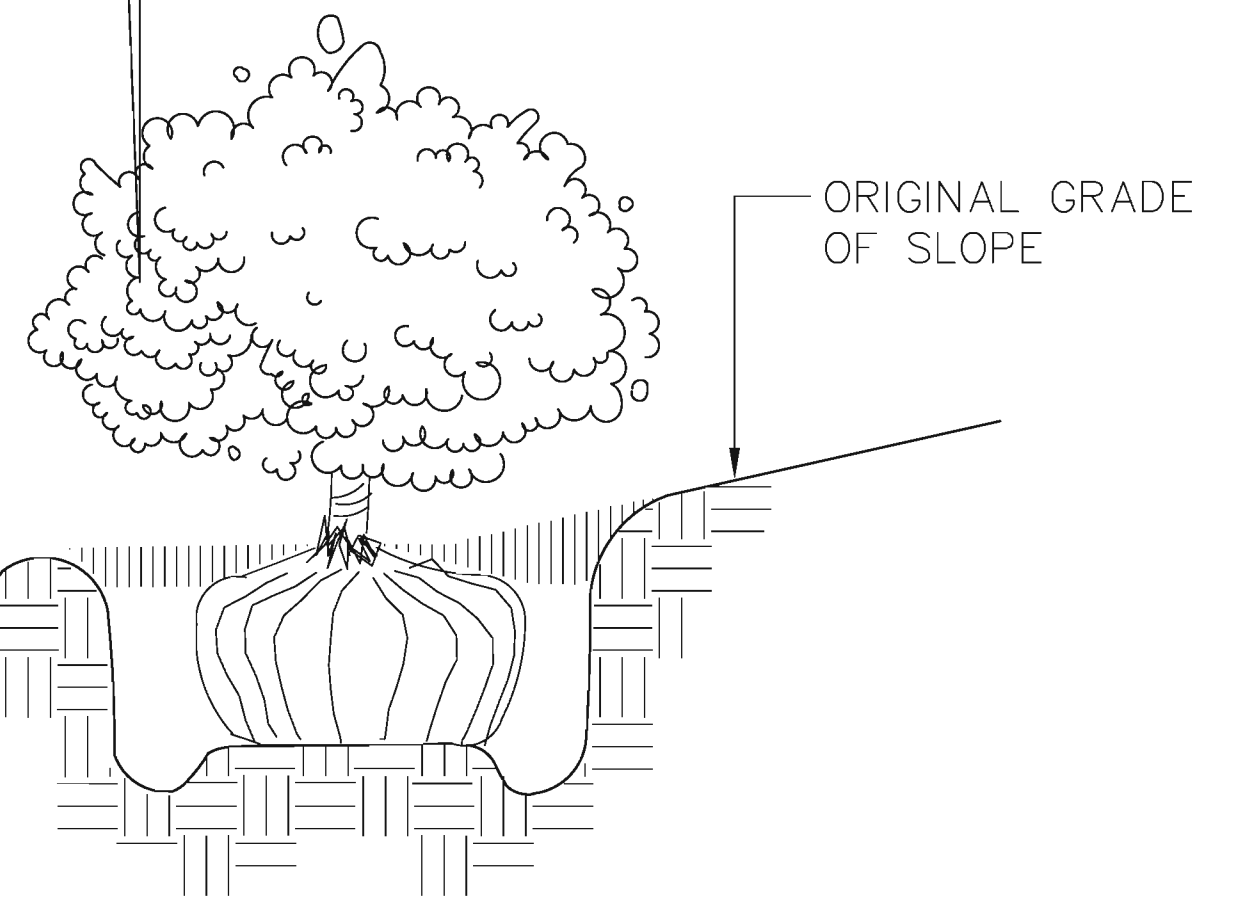
SAFETY STAKE BY TREE STAKE SOLUTIONS



BEDDING PLANTS/ EDGING DETAIL

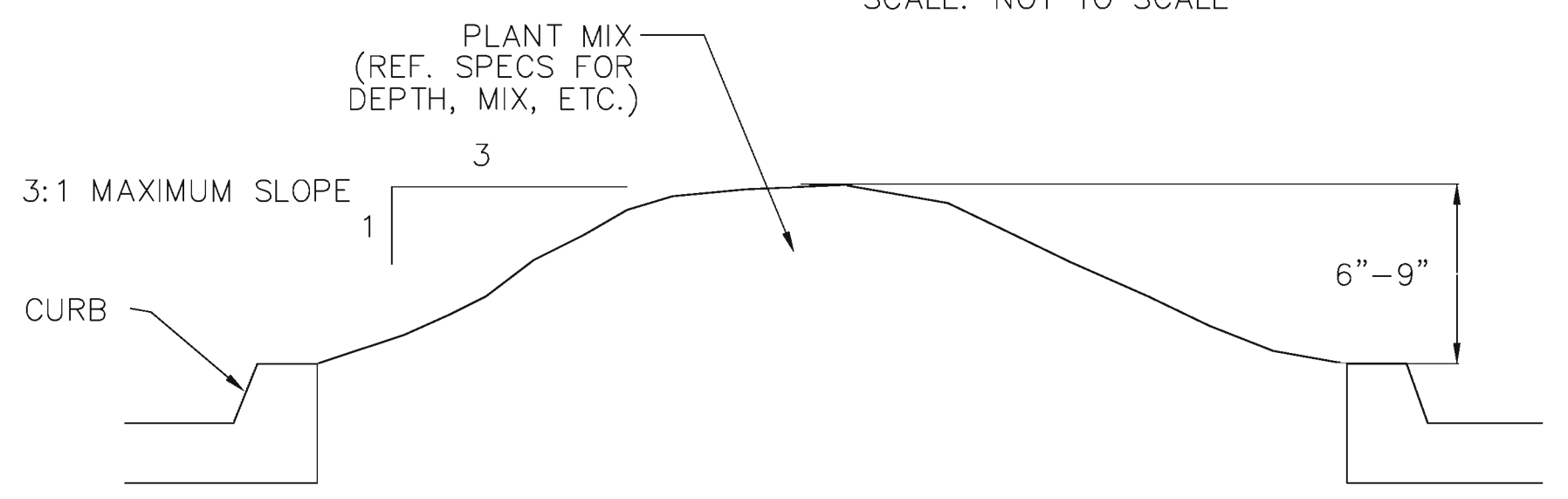
SCALE: NOT TO SCALE

MAINTAIN SAUCER ON LOWER SIDES OF PLANT TO RETAIN WATER



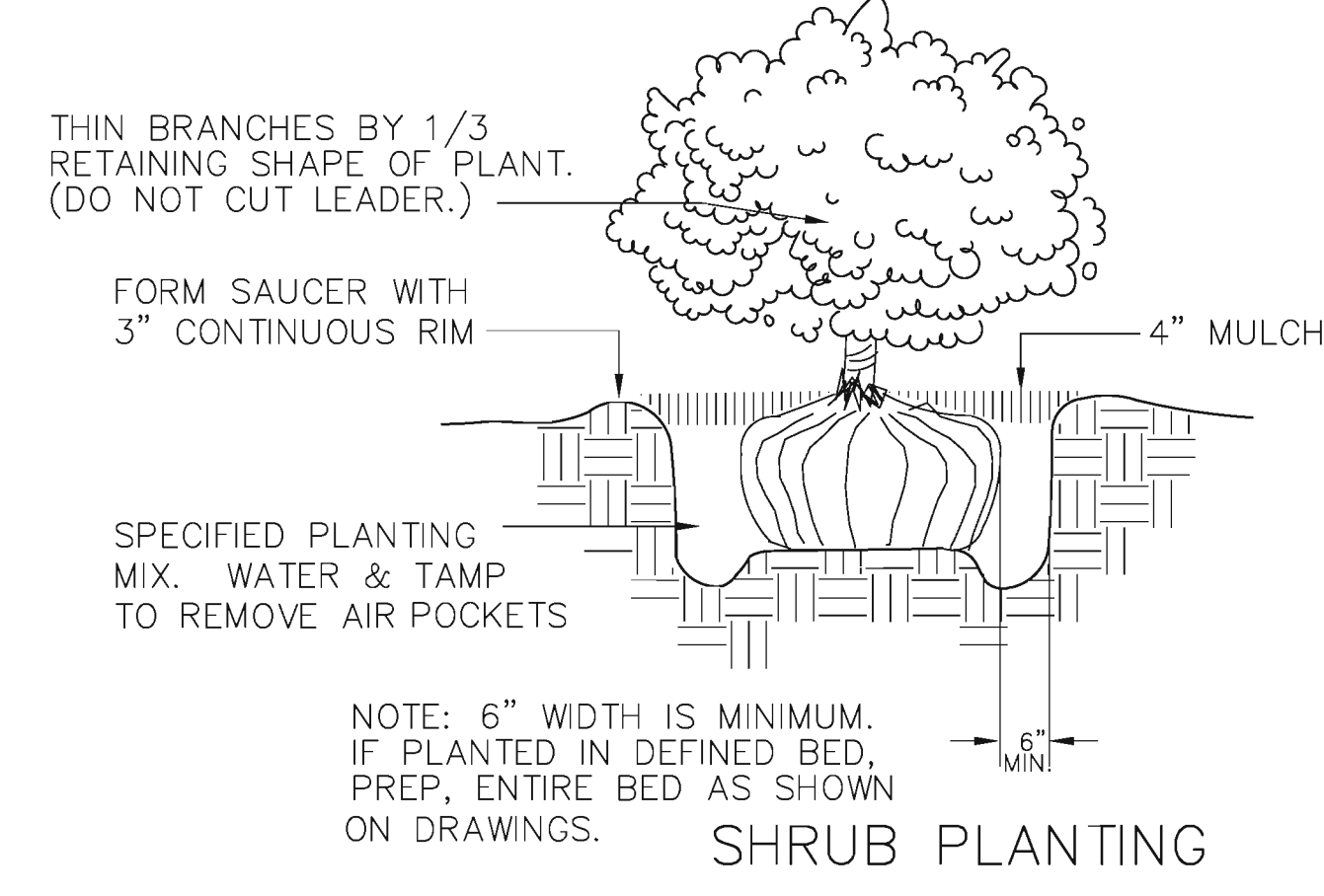
TREE/SHRUB PLANTING ON SLOPES

SCALE: NOT TO SCALE



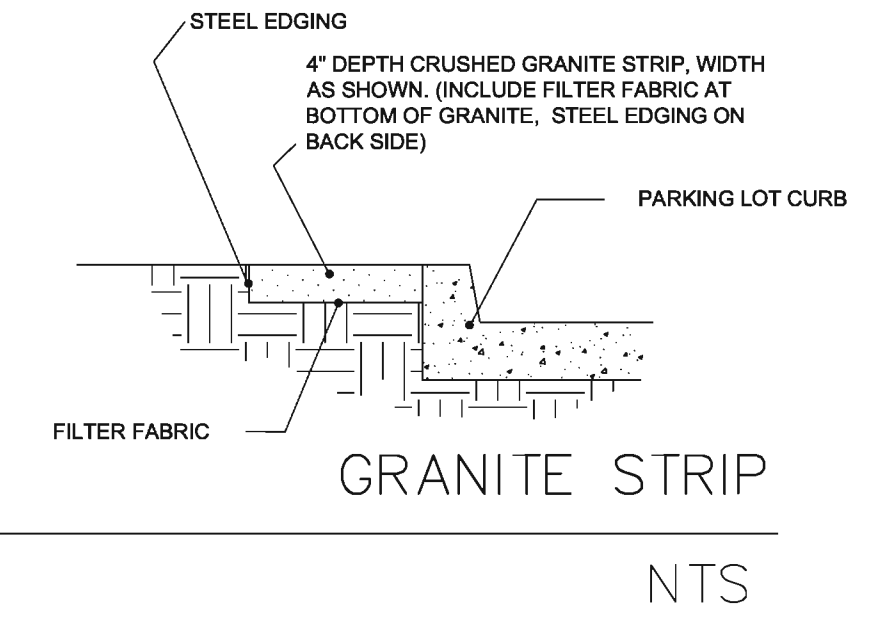
TYPICAL PARKING LOT ISLAND MOUNDING

SCALE: NOT TO SCALE



SHRUB PLANTING

SCALE: NOT TO SCALE



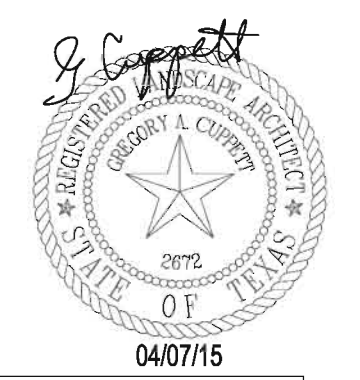
GRANITE STRIP

NTS

PLANT LIST

Symbol	Quantity	Code	Name	Scientific Name	Common Name	Planting Size	Comments	Mature Height
	50	Frte		Fraxinus texensis	Texas ash	3"-Cal/12' min ht	B & B	30'
	23	Qush		Quercus shumardii	Shumard oak	3"-Cal/12' min ht	B & B	50'
	50	Quvi		Quercus virginiana	Southern live oak	3"-Cal/12' min ht	B & B	50'
	13	Ulcr		Ulmus crassifolia	Cedar elm	3"-Cal/12' min ht	B & B	50'
	6	Cail		Carya illinoensis	Pecan	3"-Cal/12' min ht	B & B	50'
	5	Juvi		Juniperus virginiana	Eastern red cedar	3"-Cal/10' min ht	B & B	25'
	7	Qush		Quercus shumardii	Shumard oak	4"-Cal/14' min ht	B & B	50'
	7	Ulcr		Ulmus crassifolia	Cedar elm	4"-Cal/14' min ht	B & B	50'
	343	JuchP		Juniperus chinensis 'Pfitzerana'	Pfitzer juniper	7-Gal./30" min ht	48" O.C.	48"
	11	Laintu		Lagerstroemia indica 'Tuscarora'	'Tuscarora' crape myrtle	45-Gal./8' min ht	3 to 5 Canes, Tree form	15'
	8	Cecate		Cercis canadensis 'Texensis'	Texas redbud	2"-Cal/8' min ht	8'-10' Min Ht	15'
		Stte		Stipa tenuissima	Mexican feathergrass	1-Gal	18" O.C.	
		Tras		Trachelospermum asiaticum	Asian jasmime	4" pot	12" O.C.	
		Cyda		Cynodon dactylon	Solid Bermuda sod	Sod	Solid	

**PRELIMINARY  
 NOT FOR PERMITTING  
 OR CONSTRUCTION  
 "REVIEW ONLY"**



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Winkelmann & Associates, Inc.  
 CONSULTING CIVIL ENGINEERS ■ SURVEYORS  
 8750 HILLCREST PLAZA DRIVE, SUITE 325  
 FORT WORTH, TEXAS 76114  
 (817) 498-7000  
 (817) 498-1000  
 Fax: (817) 498-1000  
 www.winkelmanna.com

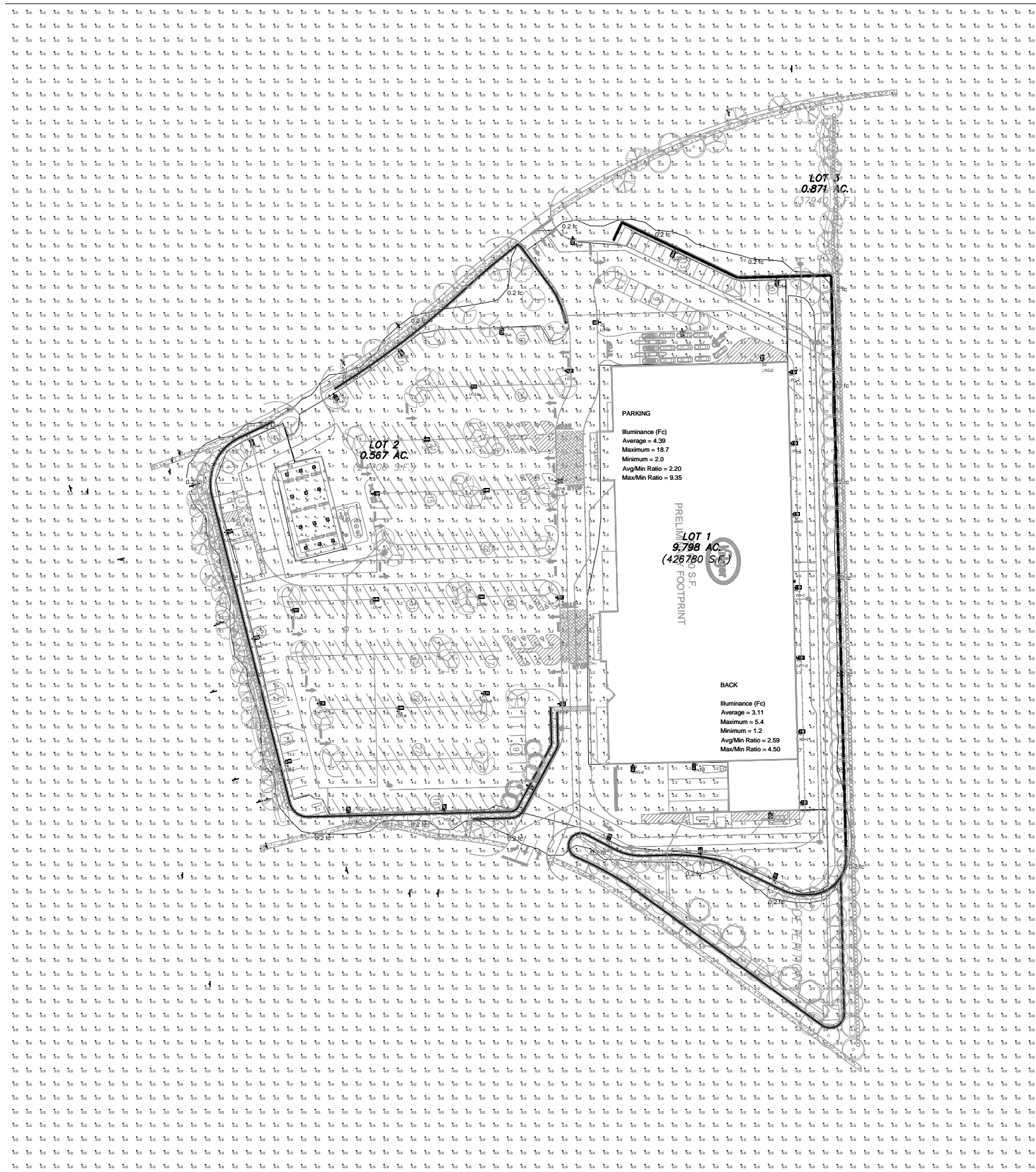
No.	DATE	REVISION
6.		
5.		
4.		
3.		
2.		
1.		

APPROVED: \_\_\_\_\_  
 DATE: \_\_\_\_\_

PLANTING DETAILS  
 SEC N. GOLIAD ST. AND E.  
 QUAIL RUN RD.  
 ROCKWALL, TEXAS

L-3





Luminaire Location Summary	LumNo	Label	X	Y	Z	Orient	Tilt
1	A	293366L	7034897.	15	14.034	0	
2	A	293367L	7034894.	15	14.034	0	
3	A	293365S	7034890.	15	14.034	0	
4	A	293369L	7034873.	15	14.034	0	
5	A	293367E	7034870.	15	14.034	0	
6	A	293366L	7034866.	15	14.034	0	
7	A	293370L	7034840.	15	14.034	0	
8	A	293368E	7034836.	15	14.034	0	
9	A	2933670.	7034832.	15	14.034	0	
10	A	293370L	7034817.	15	14.034	0	
11	A	293369L	7034814.	15	14.034	0	
12	A	293367E	7034809.	15	14.034	0	
13	LD1-6	293365S	7034445.	20	0	0	
14	LD1-6	293368S	7034339.	20	0	0	
15	LD1-6	293362S	7034251.	20	331.624	0	
16	LD1-6	293379L	7034628.	20	0	0	
17	LD1-6	2933749	7034699	20	0	0	
18	LD1-8	293385S	7034688	20	0	0	
19	LD1-8	293385A	7034671.	20	0	0	
20	LD1-8	2933739	7034653.	20	0	0	
21	LD1-8	293384E	7034656.	20	0	0	
22	LD1-8	293377S	7034335.	20	0	0	
23	LD1-8	293386S	7034337.	20	0	0	
24	LD1-8	293396Z	7034339.	20	0	0	
25	LD1-8	2933949	7034455.	20	0	0	
26	LD1-8	293396E	7034565.	20	0	0	
27	LD1-8	293396Z	7034678.	20	0	0	
28	LD1-8	293410Z	7034761.	20	270.063	0	
29	LD1-8	293399S	7034756.	20	180	0	
30	LD6-6	2934079	7034834.	20	246.194	0	
31	LD6-6	293361S	7034629.	20	291.803	0	
32	LD6-6	2933990	7034750.	20	270	0	
33	LD6-6	293396Z	7034275.	20	12.34	0	
34	LD6-8	293361E	7034410.	20	12.34	0	
35	LD7-6	2933777	7034726.	20	308.363	0	
36	LD7-6	2934190	7034803.	20	270	0	
37	LD7-6	293396E	7034848.	20	270	0	
38	LD7-6	2933738	7034221.	20	90	0	
39	LD7-8	2933829	7034222.	20	90	0	
40	LD7-8	2933888	7034626.	20	11.482	0	
41	LD7-8	2934006	7034189.	20	66.497	0	
42	LD7-8	2934107	7034172.	20	90	0	
43	LD7-8	2934191	7034144.	20	72.523	0	
44	LD7-8	2933706	7034677.	20	302.735	0	
45	LW1-2	293421Z	7034389.	15	0	0	
46	LW1-2	293419Z	703422Z.	15	270	0	
47	LW1-2	293420S	7034466.	15	0	0	
48	LW1-2	293421S	7034231.	15	0	0	
49	LW1-2	293421Z	7034309.	15	0	0	
50	LW1-2	2934207	7034546.	15	0	0	
51	LW1-2	293420S	7034624.	15	0	0	
52	LW1-2	2934204.	7034701.	15	0	0	
53	LW2-2	293417S	7034712.	15	90	0	
54	LW2-2	2934190	7034279.	15	270	0	
55	LW2-2	2934033	7034273.	15	270	0	

Symbol	Qty	Label	Arrangement	Lum. Wires	Total Wires	Lum. Lumens	LF	Description	LED	LED
1	12	LW1-2	360°	88	1596	812	0.12	LWC-90-4-LED-E1-1-1-A17	0.80	0.80
2	8	LD1-8	360°	315	1500	2241	0.12	LEDON-8-0-LED-E1-1-1-A17	0.80	0.80
3	13	LD1-8	360°	421	1613	4313	0.12	LEDON-8-0-LED-E1-1-1-A17	0.80	0.80
4	3	LD1-8	360°	315	164	3020	0.12	LEDON-8-0-LED-E1-1-1-A17	0.80	0.80
5	2	LD1-8	360°	421	164	3614	0.12	LEDON-8-0-LED-E1-1-1-A17	0.80	0.80
6	7	LD1-8	360°	315	146	2409	0.12	LEDON-8-0-LED-E1-1-1-A17	0.80	0.80
7	3	LW1-2	360°	421	247	3273	0.12	LEDON-8-0-LED-E1-1-1-A17	0.80	0.80
8	3	LW1-2	360°	421	190	1001	0.12	LEDON-8-0-LED-E1-1-1-A17	0.80	0.80
9	3	LW1-2	360°	107	31	1052	0.12	LEDON-8-0-LED-E1-1-1-A17	0.80	0.80

Calculation Summary	Label	CalcType	CalcType	Units	Avg	Min	Max	Avg/Min	Max/Min
Lot 1	Lot 1	Area	S.F.		3.11	1.2	5.4	2.59	4.50
	Lot 1	Area	S.F.		3.11	1.2	5.4	2.59	4.50
	Lot 1	Area	S.F.		3.11	1.2	5.4	2.59	4.50
Lot 2	Lot 2	Area	S.F.		4.39	2.0	18.7	2.20	9.35
	Lot 2	Area	S.F.		4.39	2.0	18.7	2.20	9.35
	Lot 2	Area	S.F.		4.39	2.0	18.7	2.20	9.35
Lot 3	Lot 3	Area	S.F.		3.11	1.2	5.4	2.59	4.50
	Lot 3	Area	S.F.		3.11	1.2	5.4	2.59	4.50
	Lot 3	Area	S.F.		3.11	1.2	5.4	2.59	4.50

We warrant to you as to the completeness, currency or accuracy of reasons inherent to CAD and the additional digital data used to produce a lighting application. At no time shall we be held responsible for the accuracy of the application or the accuracy of the data used to generate it, and it is hereby intended to apply to the user of the data. The user of the data shall be responsible for the accuracy of the data used to generate it, and it is hereby intended to apply to the user of the data. The user of the data shall be responsible for the accuracy of the data used to generate it, and it is hereby intended to apply to the user of the data. The user of the data shall be responsible for the accuracy of the data used to generate it, and it is hereby intended to apply to the user of the data.

Cooper Lighting  
by Eaton

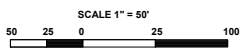
Project Name: **KROGER #574  
ROCKWALL, TX**

Client: **GREG STEIN**

Drawn By: **Arnel Uy**

Date: **4/8/2015**

Project No: **1500935.AGI**



**DESCRIPTION**

The LRC LED Recessed Canopy Luminaire is specifically designed for recessed applications in single or double skin canopies. Three specialized optics are optimized for efficiency and uniformity, delivering high light levels on task. Typical applications include retail gas stations, convenience stores, banks and pharmacy drive thru canopies. UL/cUL listed for wet locations.

<b>Catalog #</b>		<b>Type</b>	
<b>Project</b>			
<b>Comments</b>		<b>Date</b>	
<b>Prepared by</b>			

**SPECIFICATION FEATURES**

**Construction**

Heavy-duty cast aluminum housing with aluminum mounting frame. Wet location driver enclosure is elevated to prevent water ingress. 1/2" knockouts provided for wiring connections. IP66 Rated.

**Optics**

Dedicated optical cavities for the array of 16 individual LEDs to maximize the efficiency and control of the distribution out of each module. To enhance visual comfort, a glare-reducing optical system is utilized to maximize delivered lumens while minimizing glare. Scalable in 1, 2 or 4 Light Square LED modules to optimize cost and lumen output. Each reflector is precision manufactured via injection molding and coated with a highly reflective optical coating via vacuum metallization. Two symmetric optics and one asymmetric optic are specifically designed for efficiency and

uniformity. Offered standard in 4000K (+/- 275K) CCT and nominal 70 CRI. Optional 6000K CCT with nominal 70 CRI, and 3000K with nominal 80 CRI.

**Electrical**

LED driver is enclosed in a wet location box, designed to manage thermals for longevity. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. Optional proprietary circuit module designed to withstand 10kV of transient line surge. 90% lumen maintenance expected at 60,000 hours. The LRC LED Recessed Canopy Luminaire is suitable for operation in -40°C to 40°C ambient operations.

**Mounting**

Designed to recess in single or double skin canopies. Luminaire can be installed from above or below canopy, through 14" square cutout in the canopy.

**Finish**

Housing and lens frame are finished in Super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard housing and lens frame trim finished in true white color. Optional lens frame trim colors include white, grey, black, bronze, dark platinum, and graphite metallic. RAL and color matches available.

**Warranty**

Five-year warranty.

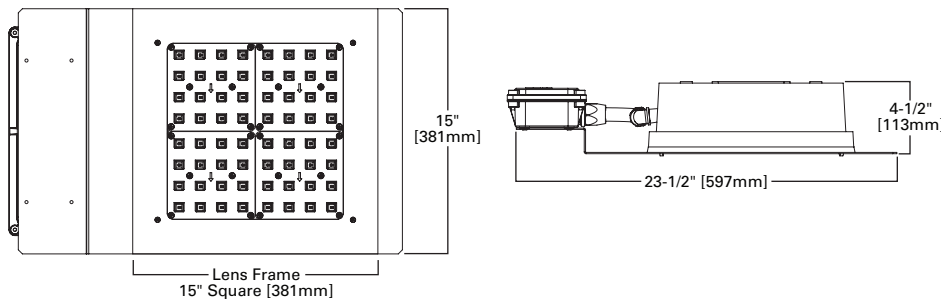


**LRC  
LED RECESSED  
CANOPY**

**1, 2 or 4 Light Squares  
Solid State LED**

**CANOPY LUMINAIRE**

**DIMENSIONS**



**CERTIFICATION DATA**

UL/cUL Listed  
LM79 / LM80 Compliant  
ISO 9001  
DesignLights Consortium® Qualified\*

**ENERGY DATA**

**Electronic LED Driver**  
>0.9 Power Factor  
<20% Total Harmonic Distortion  
120-277V/50 & 60Hz, 347V/60Hz,  
480V/60Hz  
-40°C Minimum Temperature  
40°C Maximum Ambient Temperature

**SHIPPING DATA**

**Approximate Net Weight:**  
20-29 lbs. (9.07-13.15 kgs.)

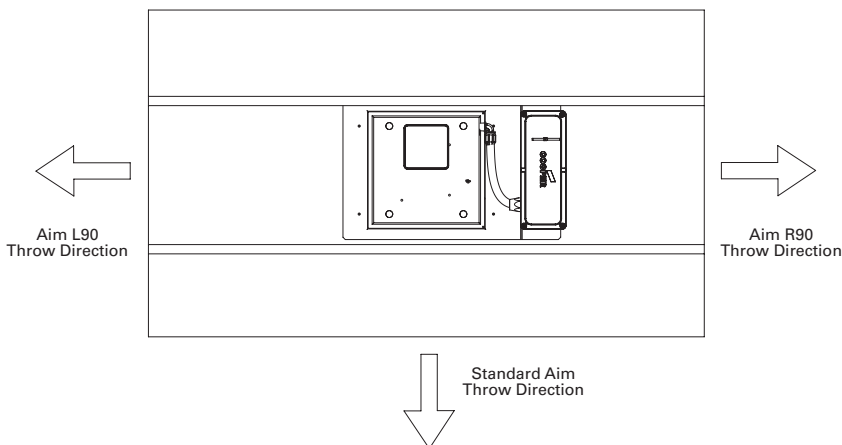


POWER AND LUMENS BY NUMBER OF LEDs

Number of LEDs	LED Drive Current	Input Wattage	Input Current (Amps)		Optics	MST	VAT	WST
			120V	277V				
16	700mA	37W	0.33	0.15	Lumens	3,099	2,987	3,026
					BUG Rating	2-0-0	2-0-0	1-0-0
	950mA	50W	0.41	0.19	Lumens	3,841	3,702	3,751
					BUG Rating	2-0-1	2-0-0	2-0-0
32	350mA	35W	0.30	0.14	Lumens	3,448	3,323	3,367
					BUG Rating	2-0-0	2-0-0	2-0-0
	450mA	46W	0.40	0.18	Lumens	4,285	4,130	4,184
					BUG Rating	2-0-1	2-0-0	2-0-0
	700mA	73W	0.62	0.23	Lumens	6,048	5,829	5,906
					BUG Rating	3-0-1	3-0-0	2-0-0
64	350mA	69W	0.59	0.28	Lumens	6,679	6,439	6,524
					BUG Rating	3-0-1	3-0-0	2-0-0
	450mA	88W	0.77	0.36	Lumens	8,212	8,019	8,125
					BUG Rating	3-0-1	3-0-0	3-0-0

NOTE: Lumen values tested at 4000K CCT.

VAT OPTIC ORIENTATION



LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
10°C	1.04
15°C	1.03
25°C	1.00
40°C	0.96

ORDERING INFORMATION

Sample Number: LRC-B64-4-LED-E1-VAT

Product Family <sup>1</sup>	Generation	Number of LEDs	Drive Current <sup>2</sup>	Lamp Type	Voltage	Distribution	Trim Color
LRC=LED Recessed Canopy	B=B	16=16 32=32 64=64	1=950mA 3=350mA 4=450mA 7=700mA	LED=Solid State Light Emitting Diodes	E1=Electronic 120-277V 347=347V 480=480V <sup>3</sup>	VAT=Vertical Aysmmetric WST=Wide Symmetric MST=Medium Symmetric	[Blank]=True White AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White
Option (Add as Suffix)						Accessories (Order Separately)	
10K=10kV Surge Module 2L=Two Circuits <sup>4</sup> L90=Optics Rotated 90° Left <sup>5</sup> R90=Optics Rotated 90° Right <sup>5</sup> 7060=70 CRI/6000K CCT <sup>6</sup> 8030=80 CRI/3000K CCT <sup>6</sup>						MA1253=10kV Circuit Module Replacement	

- Notes:
- DesignLights Consortium® Qualified. Refer to [www.designlights.org](http://www.designlights.org) Qualified Products List under Family Models for details.
  - 950mA available only in 16 LEDs. 700mA available in 16 or 32 LEDs. 450mA available only in 32 or 64 LEDs. 350mA only available in 32 or 64 LEDs.
  - Not to be used with un-grounded systems.
  - Not available in 347V or 480V. Not available with 16 LEDs. Not available with 32 LEDs in 350mA or 450mA.
  - Only applies with VAT distribution. MST and WST distributions are symmetrical.
  - Consult factory for lead times and lumen multiplier.

## DESCRIPTION

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated.

<b>Catalog #</b>		<b>Type</b>
<b>Project</b>		
<b>Comments</b>		<b>Date</b>
<b>Prepared by</b>		

## SPECIFICATION FEATURES

### Construction

Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

### Optics

Choice of 16 patented, high-efficiency AccuLED Optics. The optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 6000K CCT and 3000K CCT. For the ultimate level of spill light control, an optional house side shield accessory can

be field or factory installed. The house side shield is designed to seamlessly integrate with the SL2, SL3, SL4 or AFL optics.

### Electrical

LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. Standard with 0-10V dimming. Shipped standard with Cooper Lighting proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 530mA and 700mA drive currents.

### Mounting

Extruded aluminum arm includes internal bolt guides allowing for

easy positioning of fixture during assembly. Designed for pole or wall mounting. When mounting two or more luminaires at 90° or 120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table on page 3. Round pole top adapter included. For wall mounting, specify wall mount bracket option. 3G vibration rated.

### Finish

Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is powder coated black. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult the McGraw-Edison Architectural Colors brochure for the complete selection.

### Warranty

Five-year warranty.



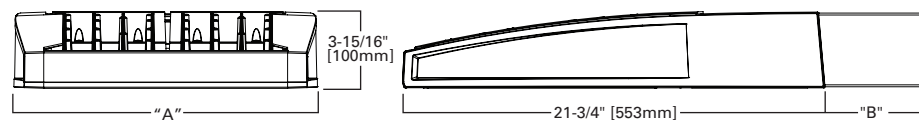
## GLEON GALLEON LED

1-10 Light Squares  
Solid State LED

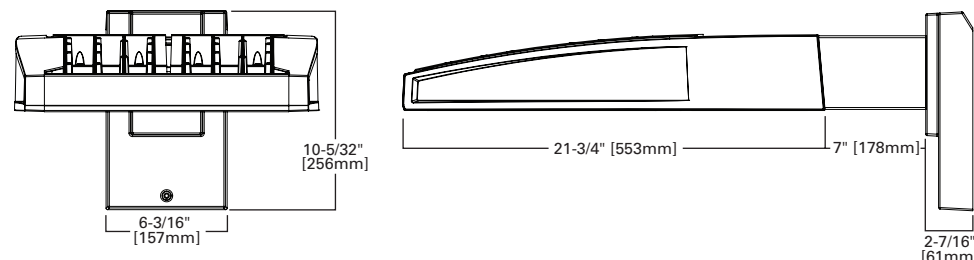
AREA/SITE LUMINAIRE

## DIMENSIONS

### POLE MOUNT



### WALL MOUNT



### DIMENSION DATA

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length <sup>1</sup>	Weight with Arm (lbs.)	EPA with Arm <sup>2</sup> (Sq. Ft.)
1-4	15-1/2" (394mm)	7" (178mm)	10" (254mm)	33 (15.0 kgs.)	0.96
5-6	21-5/8" (549mm)	7" (178mm)	10" (254mm)	44 (20.0 kgs.)	1.00
7-8	27-5/8" (702mm)	7" (178mm)	13" (330mm)	54 (24.5 kgs.)	1.07
9-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)	63 (28.6 kgs.)	1.12

NOTES: 1 Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table. 2 EPA calculated with optional arm length.



### CERTIFICATION DATA

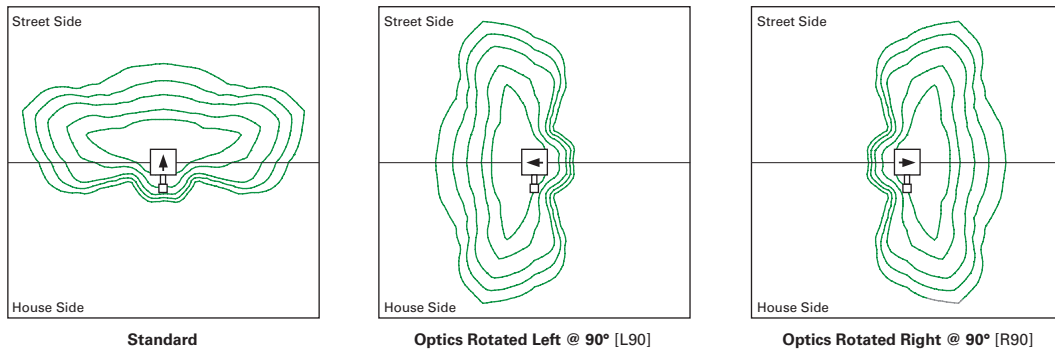
UL/cUL Wet Location Listed  
ISO 9001  
LM79 / LM80 Compliant  
3G Vibration Rated  
IP66 Rated  
DesignLights Consortium® Qualified\*

### ENERGY DATA

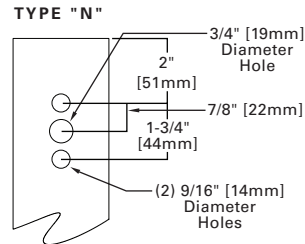
Electronic LED Driver  
>0.9 Power Factor  
<20% Total Harmonic Distortion  
120V-277V 50/60Hz  
347V & 480V 60Hz  
-40°C Min. Temperature  
40°C Max. Temperature  
50°C Max. Temperature (HA Option)



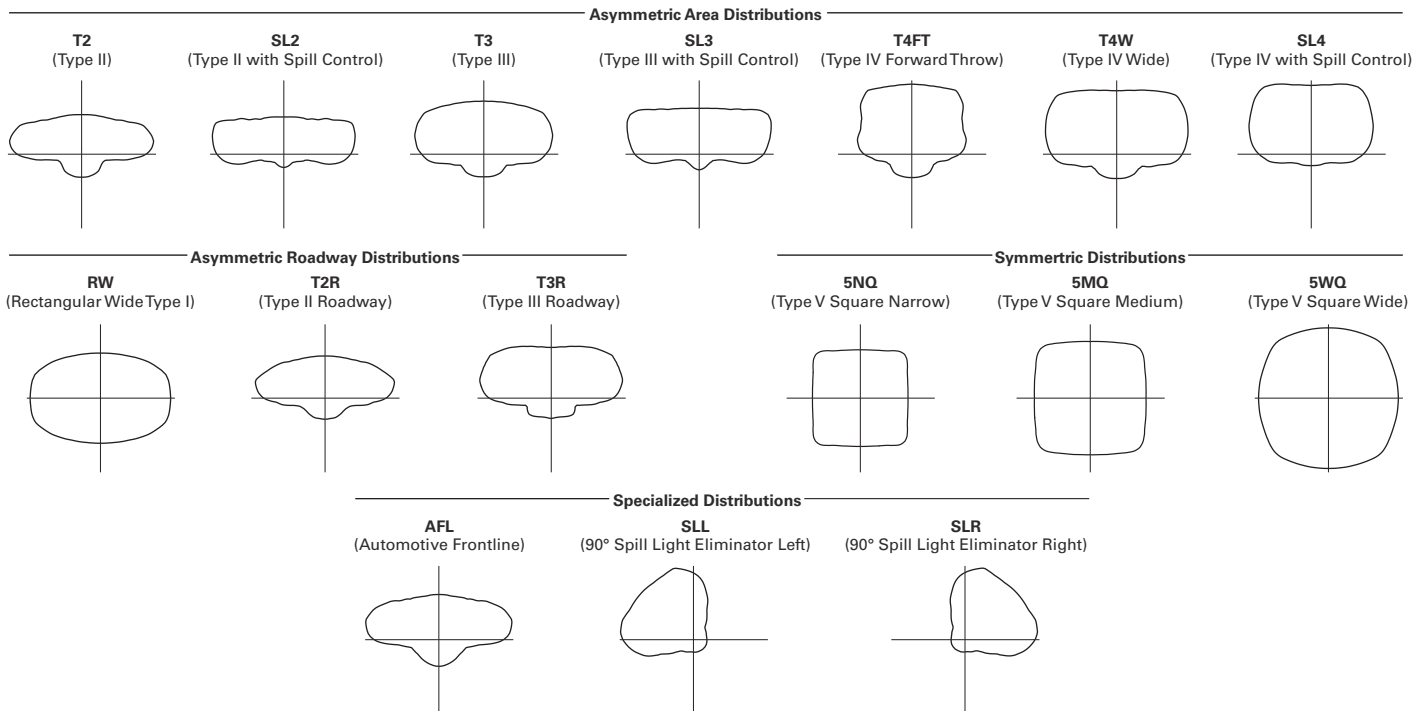
**OPTIC ORIENTATION**



**DRILLING PATTERN**

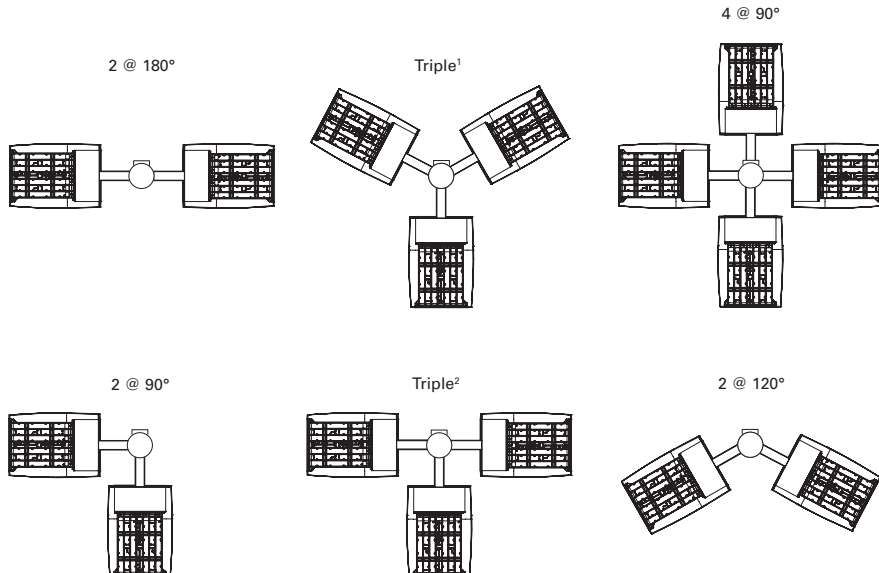


**OPTICAL DISTRIBUTIONS**



**ARM MOUNTING REQUIREMENTS**

Configuration	90° Apart	120° Apart
GLEON-AE-01	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-02	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-03	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-04	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-05	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AE-06	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AE-07	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AE-08	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AE-09	16" Extended Arm (Required)	16" Extended Arm (Required)
GLEON-AE-10	16" Extended Arm (Required)	16" Extended Arm (Required)



## NOMINAL POWER AND LUMENS (1A)

Number of Light Squares	1	2	3	4	5	6	7	8	9	10	
Drive Current	1A	1A	1A	1A	1A	1A	1A	1A	1A	1A	
Nominal Power (Watts)	56	107	157	213	264	315	370	421	475	528	
Input Current @ 120V (A)	0.47	0.90	1.31	1.79	2.21	2.64	3.09	3.51	3.96	4.41	
Input Current @ 208V (A)	0.28	0.51	0.74	1.02	1.25	1.48	1.76	1.99	2.22	2.50	
Input Current @ 240V (A)	0.25	0.45	0.65	0.90	1.10	1.30	1.55	1.75	1.95	2.20	
Input Current @ 277V (A)	0.23	0.41	0.59	0.82	1.00	1.18	1.41	1.59	1.77	2.00	
Optics											
T2	Lumens	5,272	10,303	15,373	20,313	25,168	30,118	35,618	40,357	45,018	49,842
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
T2R	Lumens	5,597	10,938	16,321	21,565	26,719	31,974	37,813	42,844	47,792	52,914
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5
T3	Lumens	5,374	10,501	15,669	20,704	25,652	30,697	36,303	41,134	45,884	50,802
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
T3R	Lumens	5,493	10,735	16,017	21,164	26,222	31,379	37,110	42,048	46,904	51,930
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4FT	Lumens	5,405	10,562	15,760	20,824	25,801	30,875	36,514	41,372	46,150	51,096
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	Lumens	5,335	10,426	15,556	20,555	25,468	30,476	36,042	40,838	45,554	50,436
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL2	Lumens	5,263	10,285	15,347	20,278	25,124	30,066	35,556	40,288	44,940	49,756
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
SL3	Lumens	5,373	10,500	15,667	20,701	25,649	30,693	36,298	41,128	45,878	50,794
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL4	Lumens	5,105	9,976	14,886	19,669	24,370	29,163	34,488	39,078	43,591	48,262
	BUG Rating	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	Lumens	5,542	10,830	16,160	21,352	26,455	31,658	37,439	42,421	47,320	52,392
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4
5MQ	Lumens	5,644	11,029	16,457	21,745	26,942	32,241	38,128	43,202	48,191	53,356
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
5WQ	Lumens	5,659	11,059	16,501	21,803	27,014	32,327	38,230	43,317	48,320	53,498
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
SLL/SLR	Lumens	4,722	9,227	13,767	18,191	22,539	26,971	31,897	36,141	40,315	44,635
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
RW	Lumens	5,492	10,732	16,014	21,159	26,216	31,372	37,101	42,038	46,893	51,918
	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
AFL	Lumens	5,512	10,771	16,072	21,236	26,311	31,486	37,236	42,191	47,063	52,107
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4

\* Nominal data for 4000K CCT.

## NOMINAL POWER AND LUMENS (700MA)

Number of Light Squares	1	2	3	4	5	6	7	8	9	10	
Drive Current	700mA	700mA	700mA	700mA	700mA	700mA	700mA	700mA	700mA	700mA	
Nominal Power (Watts)	38	72	105	138	176	210	243	276	314	348	
Input Current @ 120V (A)	0.32	0.59	0.86	1.14	1.45	1.72	2	2.28	2.58	2.86	
Input Current @ 208V (A)	0.21	0.36	0.51	0.67	0.87	1.02	1.18	1.34	1.53	1.69	
Input Current @ 240V (A)	0.19	0.32	0.45	0.59	0.77	0.90	1.04	1.18	1.35	1.49	
Input Current @ 277V (A)	0.20	0.29	0.40	0.51	0.69	0.80	0.91	1.02	1.20	1.31	
Optics											
T2	Lumens	3,854	7,531	11,237	14,847	18,395	22,013	26,033	29,497	32,904	36,430
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T2R	Lumens	4,091	7,995	11,929	15,762	19,529	23,370	27,638	31,316	34,932	38,676
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
T3	Lumens	3,928	7,676	11,453	15,133	18,750	22,437	26,534	30,065	33,537	37,132
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T3R	Lumens	4,015	7,846	11,707	15,469	19,166	22,936	27,124	30,733	34,283	37,957
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
T4FT	Lumens	3,951	7,720	11,519	15,221	18,858	22,567	26,688	30,240	33,732	37,347
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	Lumens	3,900	7,620	11,370	15,024	18,615	22,276	26,343	29,849	33,296	36,864
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL2	Lumens	3,847	7,518	11,217	14,821	18,364	21,975	25,988	29,447	32,847	36,368
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
SL3	Lumens	3,927	7,675	11,451	15,131	18,747	22,434	26,531	30,061	33,533	37,126
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
SL4	Lumens	3,731	7,292	10,880	14,376	17,812	21,315	25,208	28,562	31,861	35,275
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5	B2-U0-G5	B3-U0-G5
5NQ	Lumens	4,051	7,916	11,811	15,606	19,336	23,139	27,365	31,006	34,587	38,294
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3
5MQ	Lumens	4,125	8,062	12,029	15,894	19,692	23,565	27,869	31,577	35,224	38,999
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
5WQ	Lumens	4,136	8,083	12,061	15,936	19,745	23,628	27,943	31,661	35,318	39,103
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
SLL/SLR	Lumens	3,451	6,744	10,063	13,296	16,474	19,714	23,314	26,416	29,467	32,625
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
RW	Lumens	4,014	7,844	11,704	15,465	19,162	22,930	27,118	30,726	34,274	37,948
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
AFL	Lumens	4,029	7,873	11,747	15,522	19,231	23,014	27,216	30,838	34,399	38,086
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3

\* Nominal data for 4000K CCT.

## NOMINAL POWER AND LUMENS (530MA)

Number of Light Squares	1	2	3	4	5	6	7	8	9	10	
Drive Current	530mA	530mA	530mA	530mA	530mA	530mA	530mA	530mA	530mA	530mA	
Nominal Power (Watts)	30	54	80	105	130	159	184	209	234	259	
Input Current @ 120V (A)	0.25	0.45	0.66	0.86	1.07	1.32	1.52	1.72	1.93	2.14	
Input Current @ 208V (A)	0.17	0.28	0.39	0.51	0.63	0.78	0.9	1.02	1.14	1.26	
Input Current @ 240V (A)	0.17	0.25	0.35	0.45	0.55	0.70	0.80	0.90	1.00	1.10	
Input Current @ 277V (A)	0.19	0.24	0.32	0.40	0.49	0.64	0.72	0.80	0.89	0.98	
Optics											
T2	Lumens	3,079	6,017	8,978	11,862	14,697	17,588	20,800	23,567	26,289	29,106
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4
T2R	Lumens	3,269	6,388	9,531	12,593	15,603	18,672	22,082	25,020	27,909	30,900
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4
T3	Lumens	3,138	6,133	9,150	12,091	14,980	17,926	21,200	24,021	26,795	29,667
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
T3R	Lumens	3,208	6,269	9,354	12,359	15,313	18,325	21,671	24,555	27,390	30,326
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T4FT	Lumens	3,156	6,168	9,203	12,161	15,067	18,030	21,323	24,160	26,950	29,839
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T4W	Lumens	3,116	6,088	9,084	12,004	14,872	17,797	21,047	23,848	26,602	29,453
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
SL2	Lumens	3,074	6,006	8,962	11,842	14,672	17,558	20,764	23,527	26,244	29,056
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
SL3	Lumens	3,138	6,132	9,149	12,089	14,978	17,924	21,197	24,018	26,791	29,662
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
SL4	Lumens	2,981	5,826	8,693	11,486	14,231	17,030	20,140	22,820	25,456	28,184
	BUG Rating	B0-U0-G1	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5
5NQ	Lumens	3,236	6,324	9,437	12,469	15,449	18,487	21,863	24,773	27,634	30,595
	BUG Rating	B1-U0-G0	B2-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2
5MQ	Lumens	3,296	6,441	9,610	12,698	15,733	18,828	22,266	25,229	28,142	31,158
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3
5WQ	Lumens	3,305	6,458	9,636	12,732	15,775	18,878	22,325	25,296	28,217	31,241
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
SLL/SLR	Lumens	2,757	5,388	8,040	10,623	13,162	15,751	18,627	21,105	23,543	26,066
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4
RW	Lumens	3,207	6,267	9,351	12,356	15,309	18,320	21,666	24,549	27,384	30,319
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3
AFL	Lumens	3,219	6,290	9,385	12,401	15,365	18,387	21,745	24,638	27,484	30,429
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3

\* Nominal data for 4000K CCT.

## LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

## LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C*	> 90%	> 170,000

\* 50°C lumen maintenance data applies to 530mA and 700mA drive currents.



## ORDERING INFORMATION

Sample Number: GLEON-AE-04-LED-E1-T3-GM-700

Product Family <sup>1</sup>	Light Engine	Number of Light Squares <sup>2</sup>	Lamp Type	Voltage	Distribution	Color	Mounting
GLEON=Galleon	AE=1A Drive Current	01=1 02=2 03=3 04=4 05=5 06=6 07=7 08=8 09=9 10=10	LED=Solid State Light Emitting Diodes	E1=120-277V 347=347V <sup>3</sup> 480=480V <sup>3,4</sup>	T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide 5NQ=Type V Narrow 5MQ=Type V Square Medium 5WQ=Type V Square Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I AFL=Automotive Frontline	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White	[Blank]=Arm for Round or Square Pole EA=Extended Arm <sup>5</sup> MA=Mast Arm Adapter <sup>6</sup> WM=Wall Mount
<b>Options</b> (Add as Suffix)					<b>Accessories</b> (Order Separately)		
2L=Two Circuits <sup>7,8</sup> 7030=70 CRI 3000K <sup>9</sup> 8030=80 CRI 3000K <sup>10</sup> 7050=70 CRI 5000K <sup>10</sup> 7060=70 CRI 6000K <sup>9</sup> 530=Drive Current Factory Set to 530mA <sup>11</sup> 700=Drive Current Factory Set to 700mA <sup>11</sup> F=Single Fuse (120, 277 or 347V. Must Specify Voltage) FF=Double Fuse (208, 240 or 480V. Must Specify Voltage) P=Button Type Photocontrol (120, 208, 240 or 277V) PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle R=NEMA Twistlock Photocontrol Receptacle HA=50°C High Ambient <sup>8,12</sup> MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height <sup>13,14,15,16,17</sup> MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height <sup>13,14,15,16,17</sup> MS/DIM-L40=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height <sup>13,14,15,16,19</sup> MS/DIM-L40W=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height (Wide Range) <sup>13,14,15,16,20</sup> MS/X-L08=Bi-Level Motion Sensor, Maximum 8' Mounting Height <sup>13,14,15,16,17,21</sup> MS/X-L20=Bi-Level Motion Sensor, 9' - 20' Mounting Height <sup>13,14,15,16,18,21</sup> MS/X-L40=Bi-Level Motion Sensor, 21' - 40' Mounting Height <sup>13,14,15,16,19,21</sup> MS/X-L40W=Bi-Level Motion Sensor, 21' - 40' Mounting Height (Wide Range) <sup>13,14,15,16,20,21</sup> MS-L08=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height <sup>13,14,15,16,17</sup> MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height <sup>13,14,15,16,18</sup> MS-L40=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height <sup>13,14,15,16,19</sup> MS-L40W=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height (Wide Range) <sup>13,14,15,16,20</sup> DIMRF-LW=LumaWatt Wireless Sensor, Wide Lens for 8' - 16' Mounting Height <sup>22</sup> DIMRF-LN=LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height <sup>22</sup> L90=Optics Rotated 90° Left R90=Optics Rotated 90° Right MT=Factory Installed Mesh Top TH=Tool-less Door Hardware LCF=Light Square Trim Plate Painted to Match Housing <sup>23</sup> HSS=Factory Installed House Side Shield <sup>24</sup>					OA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V OA/RA1027=NEMA Photocontrol - 480V OA/RA1201=NEMA Photocontrol - 347V OA/RA1013=Photocontrol Shorting Cap OA/RA1014=120V Photocontrol MA1252=10kV Surge Module Replacement MA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon MA1037-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon MA1197-XX=3@120° Tenon Adapter for 2-3/8" O.D. Tenon MA1188-XX=4@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1189-XX=2@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1190-XX=3@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1191-XX=2@120° Tenon Adapter for 2-3/8" O.D. Tenon MA1038-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon MA1039-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon MA1192-XX=3@120° Tenon Adapter for 3-1/2" O.D. Tenon MA1193-XX=4@90° Tenon Adapter for 3-1/2" O.D. Tenon MA1194-XX=2@90° Tenon Adapter for 3-1/2" O.D. Tenon MA1195-XX=3@90° Tenon Adapter for 3-1/2" O.D. Tenon FSIR-100=Wireless Configuration Tool for Occupancy Sensor <sup>25</sup> GLEON-MT1=Field Installed Mesh Top for 1-4 Light Squares GLEON-MT2=Field Installed Mesh Top for 5-6 Light Squares GLEON-MT3=Field Installed Mesh Top for 7-8 Light Squares GLEON-MT4=Field Installed Mesh Top for 9-10 Light Squares LS/HSS=Field Installed House Side Shield <sup>24,26</sup>		

## Notes:

- DesignLights Consortium® Qualified. Refer to [www.designlights.org](http://www.designlights.org) Qualified Products List under Family Models for details.
- Standard 4000K CCT and minimum 70 CRI.
- Requires the use of a step down transformer when combined with MS/DIM, MS/X or DIMRF.
- Not recommended for use with ungrounded, delta configured systems.
- May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table.
- Factory installed.
- 2L is not available with MS, MS/X or MS/DIM at 347V or 480V. 2L in AE-02 through AE-04 requires a larger housing, normally used for AE-05 or AE-06. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table.
- Not available with LumaWatt wireless sensors.
- Extended lead times apply. Use dedicated IES files for 3000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.
- Extended lead times apply. For 8030, factor 7030 IES files x .92 (8% lumen loss). For 7050, use 7060 IES files.
- 1 Amp standard. Use dedicated IES files for 530mA and 700mA when performing layouts. These files are published on the Galleon luminaire product page on the website.
- 50°C lumen maintenance data applies to 530mA and 700mA drive currents.
- Consult factory for more information.
- Utilizes internal step down transformer when 347V or 480V is selected.
- The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your Eaton's Cooper Lighting business representative for more information.
- Not available with HA option.
- Approximately 22' detection diameter at 8' mounting height.
- Approximately 40' detection diameter at 20' mounting height.
- Approximately 60' detection diameter at 40' mounting height.
- Approximately 100' detection diameter at 40' mounting height.
- Replace X with number of Light Squares operating in low output mode.
- LumaWatt wireless sensors are factory installed only requiring network components RF-EM1, RF-GW1 and RF-ROUT1 in appropriate quantities. See [www.cooperlighting.com](http://www.cooperlighting.com) for LumaWatt application information.
- Not available with house side shield (HSS).
- Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected.
- This tool enables adjustment of parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your Eaton's Cooper Lighting business representative for more information.
- One required for each Light Square.