

HISTORIC AND DESIGN REVIEW COMMISSION

October 05, 2016

Agenda Item No: 10

HDRC CASE NO: 2016-399
ADDRESS: 903 W MARTIN ST
211 N PRESA ST
LEGAL DESCRIPTION: NCB 290 BLK 35 LOT 15 (UHS-DOWNTOWN CAMPUS)
ZONING: D HE
CITY COUNCIL DIST.: 5
LANDMARK: Brady Green Hospital
APPLICANT: Arthur Sosa
OWNER: Universal Health System
TYPE OF WORK: Parking lot expansion and improvements
REQUEST:

The applicant is requesting a Certificate of Appropriateness for approval to improve two existing parking lot and convert an existing gravel parking into a paved parking lot creating 128 parking spaces with improvements. The improvements include:

1. Installing new light fixtures
2. Installing new cameras
3. Installing emergency phones
4. Repairs to existing sidewalks and ramps and installing new sidewalks and ramps in southern parking lot
5. Underground drainage
6. Landscaping and irrigation
7. Replacement of existing electronic gates
8. Remove existing metal fencing and replace in-kind

APPLICABLE CITATIONS:

Historic Design Guidelines, Chapter 5, Guidelines for Site Elements

3. Landscape Design

D. TREES

i. Preservation—Preserve and protect from damage existing mature trees and heritage trees. See UDC Section 35-523 (Tree Preservation) for specific requirements.

7. Off-Street Parking

A. LOCATION

i. Preferred location—Place parking areas for non-residential and mixed-use structures at the rear of the site, behind primary structures to hide them from the public right-of-way. On corner lots, place parking areas behind the primary structure and set them back as far as possible from the side streets. Parking areas to the side of the primary structure are acceptable when location behind the structure is not feasible. See UDC Section 35-310 for district-specific standards.

ii. Front—Do not add off-street parking areas within the front yard setback as to not disrupt the continuity of the streetscape.

iii. Access—Design off-street parking areas to be accessed from alleys or secondary streets rather than from principal streets whenever possible.

B. DESIGN

i. Screening—Screen off-street parking areas with a landscape buffer, wall, or ornamental fence two to four feet high—or a combination of these methods. Landscape buffers are preferred due to their ability to absorb carbon dioxide. See UDC Section 35-510 for buffer requirements.

ii. Materials—Use permeable parking surfaces when possible to reduce run-off and flooding. See UDC Section 35-526(j) for specific standards.

8. Americans with Disabilities Act (ADA) Compliance

C. DESIGN

iii. Curb cuts—Install new ADA curb cuts on historic sidewalks to be consistent with the existing sidewalk color and texture while minimizing damage to the historical sidewalk.

FINDINGS:

- a. There are two structures at 903 W Martin. One structure is a non-historic accessory structure, and the other is the structure known as Brady Green Hospital, which opened in 1917. Brady Green Hospital is a local landmark.
- b. The applicant is proposing to make improvements to the existing parking lot located to the south of the landmark. The proposed improvement plans include upgrades to site elements. There are no requests to alter the historic Brady Green Hospital.
- c. Staff made a site visit September 28, 2016, and found that the historic structure is surrounded by commercial, non-historic development. The lot at 903 W Martin, which is flanked by new commercial buildings.
- d. The site currently features approximately twenty moderately sized trees, all except one 12" dead oak tree, will remain on the site. This is consistent with the Guidelines for Site Elements 3.D.i. The applicant has noted the additional trees proposed comply with the Tree Preservation requirements noted in the UDC.
- e. The applicant is proposing to install curbs, sidewalks, ramps, and asphalt paving in an existing gravel parking lot along W Martin, in the rear of the existing parking lot. According to the Guidelines for Site Elements 7.A.i. the preferred location for off street parking is at the rear of the site behind primary structures, and ADA curbs should consistent with historic color. Given the unique nature of this site, stretching the entire length of the block and the status of the existing parking lot, staff finds this placement of parking appropriate. The applicant has not noted the color.
- f. The applicant has proposed to install curbing, trees and turf. The applicant has noted that the proposed parking lot will be landscaped to meet the requirements of buffering and screening of off street parking as noted in both the UDC Section 35-510 and the Guidelines for Site Elements 7.B.i. Staff finds the proposed landscaping and fence screening are consistent with the Guidelines.
- g. The applicant has provided specifications and product details regarding parking lot lighting and location, and adequate handicap and compact car designated parking. This is consistent with the Guidelines.
- h. **ARCHAEOLOGY**- The property is a designated local historic landmark and is located along San Pedro Creek. Moreover, the proposed development is adjacent to the Cuneo Site and Charles House local historic landmarks which are nineteenth century vernacular structures identified in the SACS Farm and Ranch Survey. The project area is also near to previously recorded archaeological site 41BX1968. Thus, the property may contain sites, some of which may be significant. Therefore, archaeological investigations shall be required for the project areas. The project is within public property and, therefore, is subject to the Antiquities Code of Texas. The archaeology consultant should submit the scope of work to the Office of Historic Preservation (OHP) for review and approval prior to beginning the archaeological investigation.

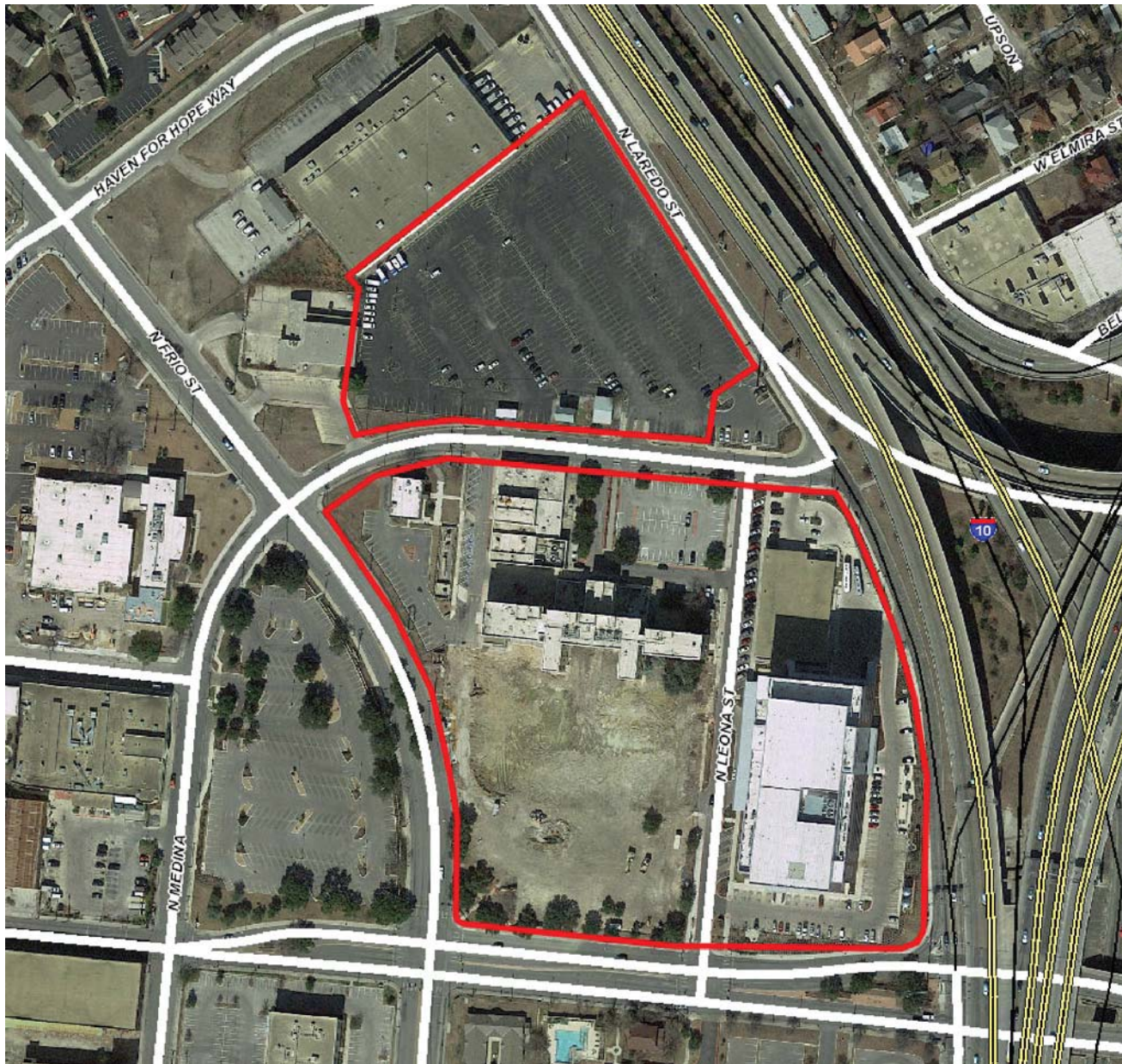
RECOMMENDATION:

Staff recommends approval based on findings a through h with the following stipulations:

1. That the sidewalk be consistent with the color of the historic sidewalks.
2. **ARCHAEOLOGY**- Archaeological investigations shall be required for the project areas. The archaeology consultant should submit the scope of work to the Office of Historic Preservation (OHP) for review and approval prior to beginning the archaeological investigation. The project is within public property and, therefore, is subject to the Antiquities Code of Texas. The development project shall comply with all federal, state, and local laws, rules, and regulations regarding archaeology.

CASE MANAGER:

Lauren Sage

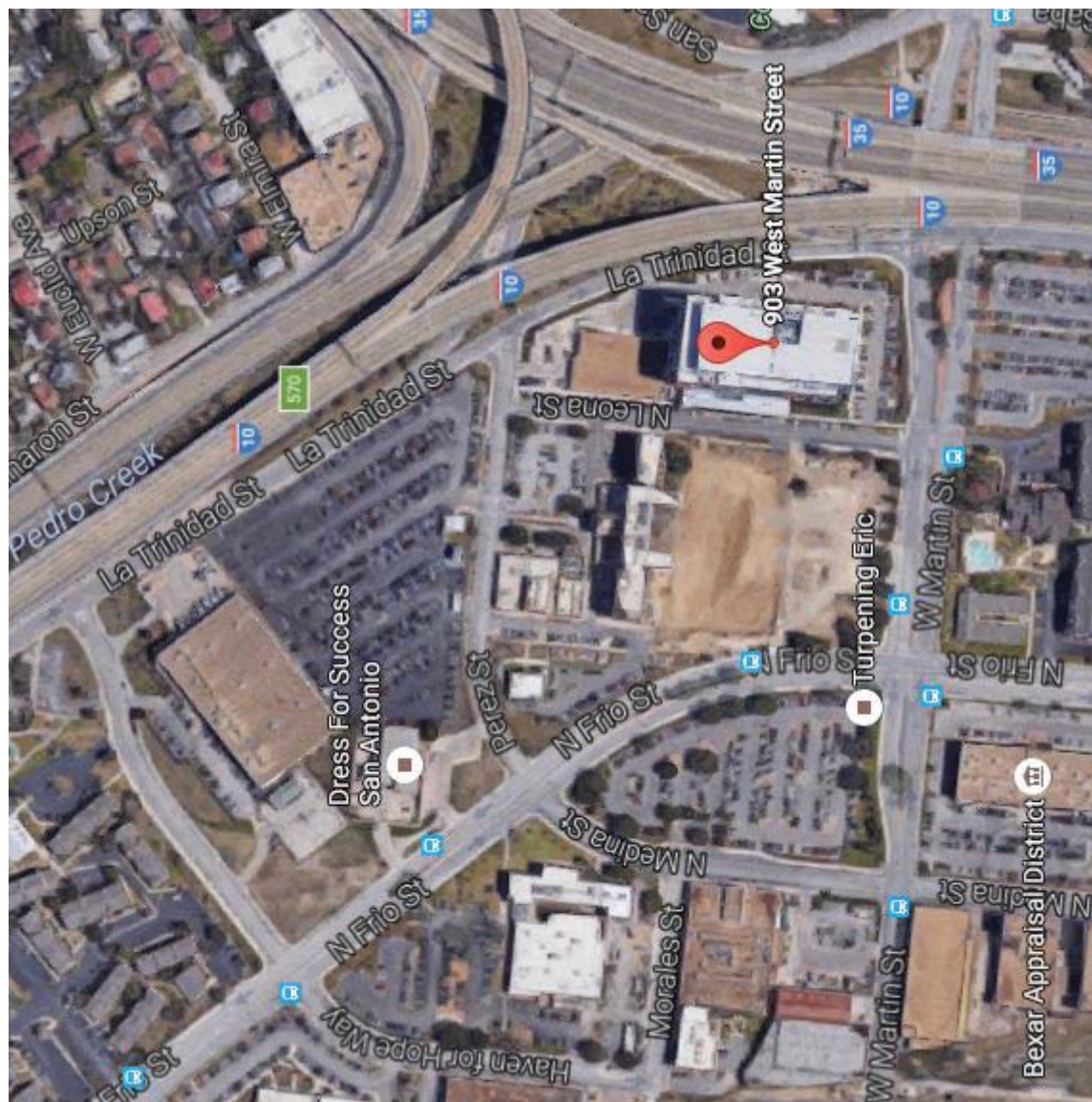


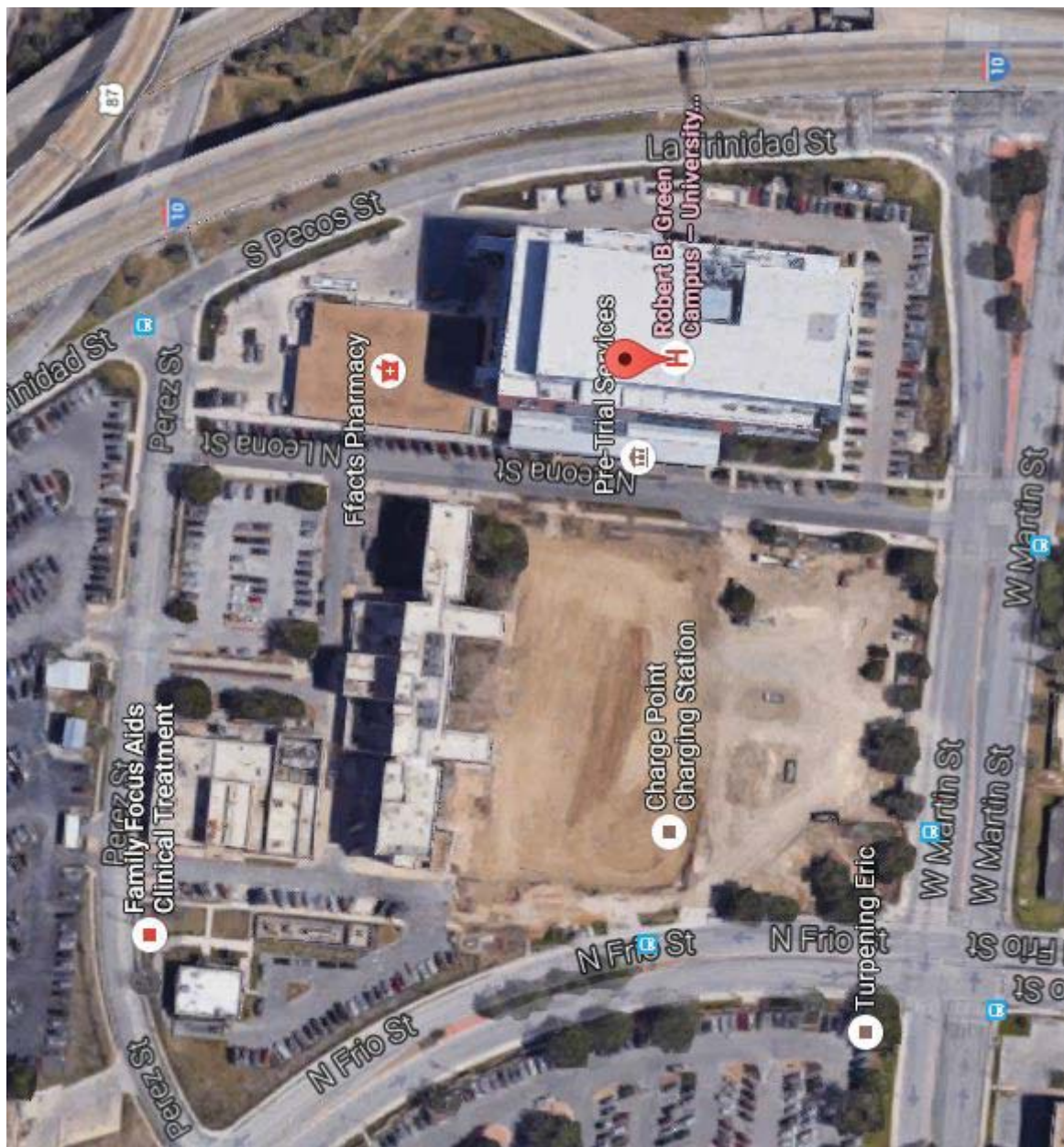
Flex Viewer

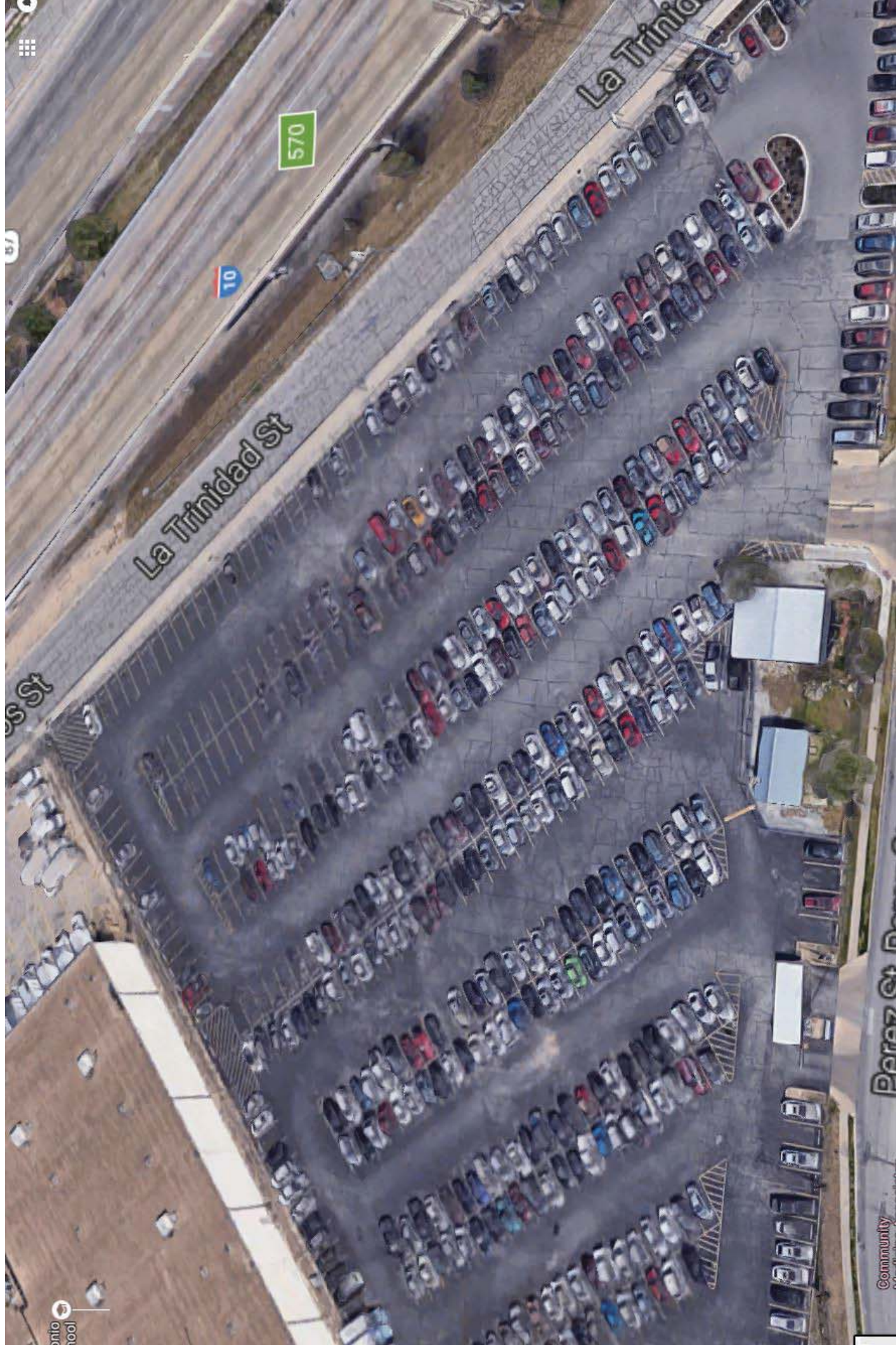
Powered by ArcGIS Server

Printed: Sep 28, 2016

The City of San Antonio does not guarantee the accuracy, adequacy, completeness or usefulness of any information. The City does not warrant the completeness, timeliness, or positional, thematic, and attribute accuracy of the GIS data. The GIS data, cartographic products, and associated applications are not legal representations of the depicted data. Information shown on these maps is derived from public records that are constantly undergoing revision. Under no circumstances should GIS-derived products be used for final design purposes. The City provides this information on an "as is" basis without warranty of any kind, express or implied, including but not limited to warranties of merchantability or fitness for a particular purpose, and assumes no responsibility for anyone's use of the information.









South Visitor Parking Lot (Corner of N. Frio and W.Martin)



West end of parking lot facing east.



Northeast corner of parking lot facing south



Southwest corner of parking lot facing Northeast



Northeast corner of parking lot facing southwest.



Southeast corner of parking lot facing north.



**Northeast corner of parking lot facing west along
concrete sidewalk.**

Permit Parking Lot



Northwest corner of parking lot facing southeast from Perez St.



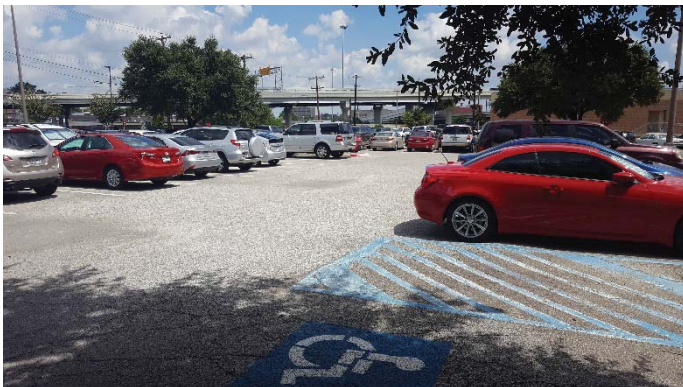
Southeast corner of parking lot along N. Leona St. facing north



Northwest corner of parking lot facing east.



Northeast corner of parking lot along N. Leona St. facing west.



Southwest corner of parking lot near building entrance facing eastward.



Handicapped parking along south end of parking lot.

North Employee/Visitor Parking Lot



Standing at Perez St. entrance facing Northwest at first row.



North end facing far northeast corner.



South end facing northwest at second row.



Far northeast corner facing south.



South end facing northwest at third row.



North end facing south.

UNIVERSITY HEALTH SYSTEM

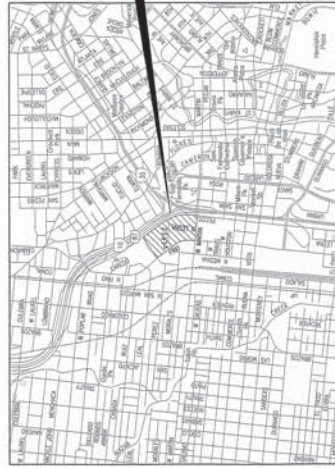
ROBERT B. GREEN DOWNTOWN CAMPUS

PERMIT PARKING LOT IMPROVEMENT

SOUTH VISITOR PARKING LOT EXPANSION AND

NORTH EMPLOYEE PARKING LOT REALIGNMENT

SAN ANTONIO, TX



PROJECT LOCATION

LOCATION MAP
JUNE 2016

ELECTRICAL ENGINEER:



RGM ENGINEERING
200 N. ST. MARTIN'S BLVD. 1225
SAN ANTONIO, TEXAS 78205
(210) 299-4527
P.E. REGISTRATION NO. E-10487

LANDSCAPE ARCHITECT:



BEYER HELLS CLARK DESIGN
830 NORTH KAMO ST.
SAN ANTONIO, TEXAS 78215
(210) 892-9221
P.E. REGISTRATION NO. BR 110

CIVIL ENGINEER:



BAIN MEDINA BAIN, INC.
ENGINEERS & SURVEYORS
210/494-1253
San Antonio, Texas 78216
P.E. 56905 (RI)
P.E. 56906 (RI)
P.E. 56907 (RI)
P.E. 56908 (RI)
P.E. 56909 (RI)
P.E. 56910 (RI)
P.E. 56911 (RI)
P.E. 56912 (RI)
P.E. 56913 (RI)
P.E. 56914 (RI)
P.E. 56915 (RI)
P.E. 56916 (RI)
P.E. 56917 (RI)
P.E. 56918 (RI)
P.E. 56919 (RI)
P.E. 56920 (RI)
P.E. 56921 (RI)
P.E. 56922 (RI)
P.E. 56923 (RI)
P.E. 56924 (RI)
P.E. 56925 (RI)
P.E. 56926 (RI)
P.E. 56927 (RI)
P.E. 56928 (RI)
P.E. 56929 (RI)
P.E. 56930 (RI)
P.E. 56931 (RI)
P.E. 56932 (RI)
P.E. 56933 (RI)
P.E. 56934 (RI)
P.E. 56935 (RI)
P.E. 56936 (RI)
P.E. 56937 (RI)
P.E. 56938 (RI)
P.E. 56939 (RI)
P.E. 56940 (RI)
P.E. 56941 (RI)
P.E. 56942 (RI)
P.E. 56943 (RI)
P.E. 56944 (RI)
P.E. 56945 (RI)
P.E. 56946 (RI)
P.E. 56947 (RI)
P.E. 56948 (RI)
P.E. 56949 (RI)
P.E. 56950 (RI)
P.E. 56951 (RI)
P.E. 56952 (RI)
P.E. 56953 (RI)
P.E. 56954 (RI)
P.E. 56955 (RI)
P.E. 56956 (RI)
P.E. 56957 (RI)
P.E. 56958 (RI)
P.E. 56959 (RI)
P.E. 56960 (RI)
P.E. 56961 (RI)
P.E. 56962 (RI)
P.E. 56963 (RI)
P.E. 56964 (RI)
P.E. 56965 (RI)
P.E. 56966 (RI)
P.E. 56967 (RI)
P.E. 56968 (RI)
P.E. 56969 (RI)
P.E. 56970 (RI)
P.E. 56971 (RI)
P.E. 56972 (RI)
P.E. 56973 (RI)
P.E. 56974 (RI)
P.E. 56975 (RI)
P.E. 56976 (RI)
P.E. 56977 (RI)
P.E. 56978 (RI)
P.E. 56979 (RI)
P.E. 56980 (RI)
P.E. 56981 (RI)
P.E. 56982 (RI)
P.E. 56983 (RI)
P.E. 56984 (RI)
P.E. 56985 (RI)
P.E. 56986 (RI)
P.E. 56987 (RI)
P.E. 56988 (RI)
P.E. 56989 (RI)
P.E. 56990 (RI)
P.E. 56991 (RI)
P.E. 56992 (RI)
P.E. 56993 (RI)
P.E. 56994 (RI)
P.E. 56995 (RI)
P.E. 56996 (RI)
P.E. 56997 (RI)
P.E. 56998 (RI)
P.E. 56999 (RI)

BMB JOB No: C-1419



The seal appearing on this document was authorized by

P.E. 56905 (RI)
05/03/2016
Paul R. Pe

INDEX OF DRAWINGS

C-1 TILE SHEET

C1.1 PHASING PLAN

E-0 ELECTRICAL SYMBOLS AND ABBREVIATIONS

PERMIT PARKING LOT IMPROVEMENTS

C-2 AREA SURVEY

C-3 DEMOLITION PLAN

C-4 DIMENSION CONTROL PLAN

C-5 UTILITY PLAN

C-6 GRADING PLAN

C-7 STORM WATER POLLUTION PREVENTION PLAN

TP-1 TREE PRESERVATION PLAN

DE-1 DEMOLITION ELECTRICAL PLAN

E-1 LIGHTING PLAN

E-4 ILLUMINATION PLAN

SOUTH VISITOR PARKING LOT EXPANSION

C-8 AREA SURVEY

C-9 DEMOLITION PLAN

C-10 DIMENSION CONTROL PLAN

C-11 UTILITY PLAN

C-12 GRADING PLAN

C-13 STORM WATER POLLUTION PREVENTION PLAN

TP-2 TREE PRESERVATION PLAN

IR-1 IRRIGATION PLAN

IR-2 IRRIGATION DETAIL

E-2 LIGHTING PLAN

E-3 ELECTRIC DISTRIBUTION PLAN

E-5 ILLUMINATION PLAN

NORTH EMPLOYEE PARKING LOT REALIGNMENT

C-14 AREA SURVEY

C-15 DEMOLITION PLAN

C-16 STRIPING PLAN

DETAILS

C-17 CHAINLINK FENCE DETAILS

C-18 CIVIL DETAILS I

C-19 CIVIL DETAILS II

C-20 COSA TYPE "C" INLET DETAILS

C-21 COSA BARRICADE DETAILS

TP-3 TREE PRESERVATION DETAILS

TP-4 TREE PRESERVATION DETAILS

TP-5 TREE PRESERVATION DETAILS

TP-6 TREE PRESERVATION DETAILS

E-6 ELECTRIC SPECIFICATIONS

THIS DOCUMENT IS THE PROPERTY OF BAIN MEDINA BAIN, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF BAIN MEDINA BAIN, INC. DATE: 05/03/2016

SYMBOLS & ABBREVIATIONS

CIRCUITS

	CONDUIT CONCEALED IN WALL OR CEILING WITH PHASE, NEUTRAL AND GROUND CONDUCTOR UNLESS OTHERWISE NOTED
	SWITCH LEG
	CONDUIT UNDERGROUND / UNDER SLAB
	WIRE RUN TO PANEL, CIRCUIT HANDERS, PHASE, NEUTRAL, AND GROUND CONDUCTORS CONCEALED. ALL CONDUCTORS TO BE #12 COPPER UNLESS OTHERWISE NOTED. CONDUIT TO BE 1/2" OR AS NOTED ON PLANS AND SPECIFICATIONS.
	SPLIT CIRCUIT

EQUIPMENT

[illegible]

RECEPTACLES

[illegible]

DEMOLITION

--- CONDUIT, EQUIPMENT, DEVICE TO BE DEMOLISHED.
 _____ (LIGHT SHADE) EXISTING TO REMAIN.

LIGHTING

	HIG SITE LIGHTING FIXTURE MOUNTED ON A POLE
	INCANDESCENT, FLUORESCENT OR HID FIXTURE, RECESSED INTO
	DOWNLIGHT
	INCANDESCENT, FLUORESCENT OR HID FIXTURE, WALL MOUNTED
	FLUSH MOUNT FIXTURE
	PENDANT FIXTURE
	WALL SCENE FIXTURE
	MOBILE BODY

$$\mathbb{I}^{\mathbb{I}^{\mathbb{I}}}$$

	FLUORESCENT 2x4 FIXTURE, WITH EMERGENCY BATTERY PACK
	FLUORESCENT 2x6 FIXTURE, CEILING OR SURFACE MOUNTED
	FLUORESCENT 2' x 8' FIXTURE, WITH EMERGENCY BATTERY PACK
	FLUORESCENT 2' x 4' FIXTURE, WITH EMERGENCY BATTERY PACK
	FLUORESCENT 1' x 4' FIXTURE, WITH EMERGENCY BATTERY PACK
	FLUORESCENT STRIP FIXTURE
	FLUORESCENT STOP FIXTURE, WITH EMERGENCY BATTERY PACK
	EXIT LIGHT, DIRECTION ARROWS AS INDICATED
	EXIT LIGHT, DIRECTION ARROWS AS INDICATED
	EMERGENCY LIGHT
	MOTION SENSOR, WALL MOUNTED
	SINGLE POLE TOGGLE SWITCH, CEILING MOUNTED
	\$ SINGLE POLE TOGGLE SWITCH, 1/2-1/2" OR AS NOTED.
	\$ SINGLE POLE TOGGLE SWITCH, SUBMERGIBLE INDICATES ASSOCIATED COUNTRY
	\$ DOUBLE-POLE TOGGLE SWITCH, 1/2-1/2" OR AS NOTED.
	\$ THREE-WAY SWITCHES, 1/2-1/2" OR AS NOTED.
	\$ PANEL SWITCH
	\$ PUSH BUTTON
	\$ SINGLE POLE OCCUPANCY SENSOR
	NATURAL WINDOW OPENING—NOTHING OUTLINES

SPECIAL SYSTEMS

	DUST MOUNTED SMOKE DETECTOR
	CILING MOUNTED SMOKE DETECTOR
	DOOR LOCK RELEASE BUTTON
	REASON LIGHT
	DOOR LOCKS
	AUDIO/VISUAL FIRE ALARM HORN
	AUDIO/VISUAL FIRE ALARM CEILING
	VISUAL FIRE ALARM
	AUDIBLE FIRE ALARM
	FIRE PULL STATION
	FIRE PULL STATION HORN
	HORN
	MORSE CALL STATION
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR

ABBREVIATIONS

[illegible][illegible]

TEXAS REGISTERED
ENGINEERING FIRM F-10487
700 N. ST. MARY'S
SUITE 1225
SAN ANTONIO, TX 78205
WWW.RMENGINEERING.NET
PHONE: 210.299.4522
FAX: 210.299.4525

THE SEAL APPROVED THE WORK
AND THE SEAL WAS AFFIXED BY
ROGER D. MENDOZA, P.E. 928C9
ON 06/03/2016



NO.	DATE	DISPOSITION	ISSUED BY:	ISSN
			ISSUED BY:	ISSN
			APPROVED BY:	ISSN
			DATE:	ISSN
			NO. OF:	ISSN
			SHEET	ISSN

ROBERT B. GREEN
 DOWNTOWN CAMPUS
 ELECTRICAL SYMBOLS
 AND ABBREVIATIONS

PREPARED BY:
 BAIN MEDINA BAIN, INC.
 ENGINEERS & SURVEYORS
 210 Alamo, Texas 78216
 210.440-7253 / T8955


 E-0

This drawing is the property of SAN MEDINA BANK, INC. AND
SHOULD NOT BE USED FOR ANY PURPOSE WITHOUT THE WRITTEN
CONSENT OF AN AUTHORIZED AGENT OF SAN MEDINA BANK, INC.
SAN MEDINA BANK INC. ACCEPTS NO RESPONSIBILITY FOR THE
USE OF THIS DRAWING FOR ANY PURPOSE AFTER 30 MONTHS
FROM THE DATE INDICATED ON THIS DRAWING. ALL RIGHTS
RESERVED. COPYRIGHT © 2015 SAN MEDINA BANK, INC.



LOCATION MAP

Post No.	Size / Type	Post No.
3180	12" DIA. 40'	3180
3181	12" DIA. 40'	3181
3182	12" DIA. 40'	3182
3183	12" DIA. 40'	3183
3184	12" DIA. 40'	3184
3185	12" DIA. 40'	3185
3186	12" DIA. 40'	3186
3187	12" DIA. 40'	3187
3188	12" DIA. 40'	3188
3189	12" DIA. 40'	3189
3190	12" DIA. 40'	3190
3191	12" DIA. 40'	3191
3192	12" DIA. 40'	3192
3193	12" DIA. 40'	3193
3194	12" DIA. 40'	3194
3195	12" DIA. 40'	3195
3196	12" DIA. 40'	3196
3197	12" DIA. 40'	3197
3198	12" DIA. 40'	3198
3199	12" DIA. 40'	3199
3200	12" DIA. 40'	3200

SYMBOLS:

- TREE
- MANHOLE STORM
- CLEAN OUT
- GUARD POST
- WATER METER
- COLUMN
- MANHOLE TELEPHONE
- TELEPHONE PEDESTAL
- SHRUB
- IRIGATION CONTROL VALVE
- WATER VALVE
- GAS VALVE

GENERAL SITE DEVELOPMENT NOTES

1. SITE INFORMATION INCLUDING REQUIREMENTS FOR INTERIOR CONSTRUCTION CONDITIONS, IS INCLUDED IN THE PLANS AND SPECIFICATIONS. CONTRACTOR SHALL COORDINATE REQUIREMENTS OF ALL CONSTRUCTION WITH EXISTING CONDITIONS.
2. EXISTING UTILITIES SHALL BE MAINTAINED AND PROTECTED. ALL UTILITIES SHALL BE DEEPER THAN THE MINIMUM REQUIREMENTS. ALL UTILITIES SHALL BE MAINTAINED AND PROTECTED. ALL UTILITIES SHALL BE DEEPER THAN THE MINIMUM REQUIREMENTS.
3. EXISTING TREES SHALL BE MAINTAINED AND PROTECTED. ALL TREES SHALL BE MAINTAINED AND PROTECTED. ALL TREES SHALL BE DEEPER THAN THE MINIMUM REQUIREMENTS.
4. EXISTING FENCES SHALL BE MAINTAINED AND PROTECTED. ALL FENCES SHALL BE MAINTAINED AND PROTECTED. ALL FENCES SHALL BE DEEPER THAN THE MINIMUM REQUIREMENTS.
5. EXISTING DRIVEWAYS SHALL BE MAINTAINED AND PROTECTED. ALL DRIVEWAYS SHALL BE MAINTAINED AND PROTECTED. ALL DRIVEWAYS SHALL BE DEEPER THAN THE MINIMUM REQUIREMENTS.
6. EXISTING SIDEWALKS SHALL BE MAINTAINED AND PROTECTED. ALL SIDEWALKS SHALL BE MAINTAINED AND PROTECTED. ALL SIDEWALKS SHALL BE DEEPER THAN THE MINIMUM REQUIREMENTS.
7. EXISTING PARKING AREAS SHALL BE MAINTAINED AND PROTECTED. ALL PARKING AREAS SHALL BE MAINTAINED AND PROTECTED. ALL PARKING AREAS SHALL BE DEEPER THAN THE MINIMUM REQUIREMENTS.
8. EXISTING LANDSCAPING SHALL BE MAINTAINED AND PROTECTED. ALL LANDSCAPING SHALL BE MAINTAINED AND PROTECTED. ALL LANDSCAPING SHALL BE DEEPER THAN THE MINIMUM REQUIREMENTS.
9. EXISTING LIGHTING SHALL BE MAINTAINED AND PROTECTED. ALL LIGHTING SHALL BE MAINTAINED AND PROTECTED. ALL LIGHTING SHALL BE DEEPER THAN THE MINIMUM REQUIREMENTS.
10. EXISTING SECURITY SYSTEMS SHALL BE MAINTAINED AND PROTECTED. ALL SECURITY SYSTEMS SHALL BE MAINTAINED AND PROTECTED. ALL SECURITY SYSTEMS SHALL BE DEEPER THAN THE MINIMUM REQUIREMENTS.

NOTE

THE SITE SURVEY IS A PARTIAL AREA OF THE ROBERT B. GREEN DOWNTOWN CAMPUS PERMITTING LOT. THE SURVEY IS A PARTIAL AREA OF THE ROBERT B. GREEN DOWNTOWN CAMPUS PERMITTING LOT. THE SURVEY IS A PARTIAL AREA OF THE ROBERT B. GREEN DOWNTOWN CAMPUS PERMITTING LOT.



The seal appearing on this document was authorized by
CARL BAIN
P.E. 56996 ON
06/03/2016

06/03/2016

06/03/2016

06/03/2016

06/03/2016

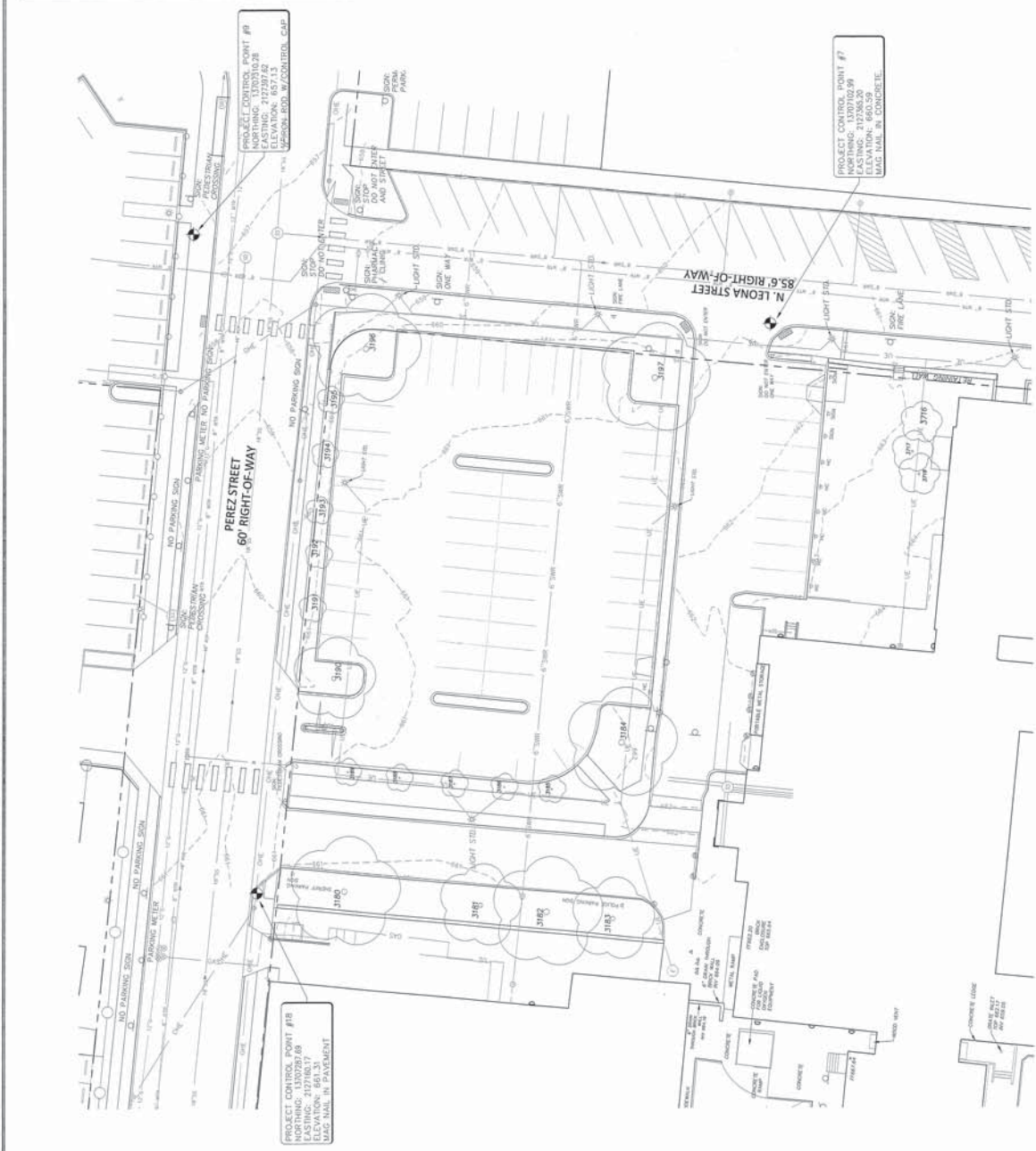
06/03/2016

06/03/2016

06/03/2016

06/03/2016

06/03/2016



TREE PROTECTION NOTES

1. ALL TREES ON THIS PROPERTY SHALL BE PRESERVED UNLESS OTHERWISE NOTED.
2. TREE PROTECTION SHALL CONFORM TO THE TREE PRESERVATION AND PROTECTION PLAN.
3. TREE PROTECTION SHALL CONFORM TO THE TREE PRESERVATION AND PROTECTION PLAN.
4. TREE PROTECTION SHALL CONFORM TO THE TREE PRESERVATION AND PROTECTION PLAN.
5. TREE PROTECTION SHALL CONFORM TO THE TREE PRESERVATION AND PROTECTION PLAN.
6. TREE PROTECTION SHALL CONFORM TO THE TREE PRESERVATION AND PROTECTION PLAN.
7. TREE PROTECTION SHALL CONFORM TO THE TREE PRESERVATION AND PROTECTION PLAN.
8. TREE PROTECTION SHALL CONFORM TO THE TREE PRESERVATION AND PROTECTION PLAN.
9. TREE PROTECTION SHALL CONFORM TO THE TREE PRESERVATION AND PROTECTION PLAN.
10. TREE PROTECTION SHALL CONFORM TO THE TREE PRESERVATION AND PROTECTION PLAN.

AREA SURVEY
SCALE: 1" = 20'-0"



NORTH

PREPARED BY:
ROBERT B. GREEN
DOWNTOWN CAMPUS
PERMITTING LOT
AREA SURVEY

DATE: JUNE 2016
JOB NO.: 123456789
SHEET: 1 OF 1

PROJECT NO.: 123456789
JOB NO.: 123456789
SHEET: 1 OF 1

PROJECT NO.: 123456789
JOB NO.: 123456789
SHEET: 1 OF 1

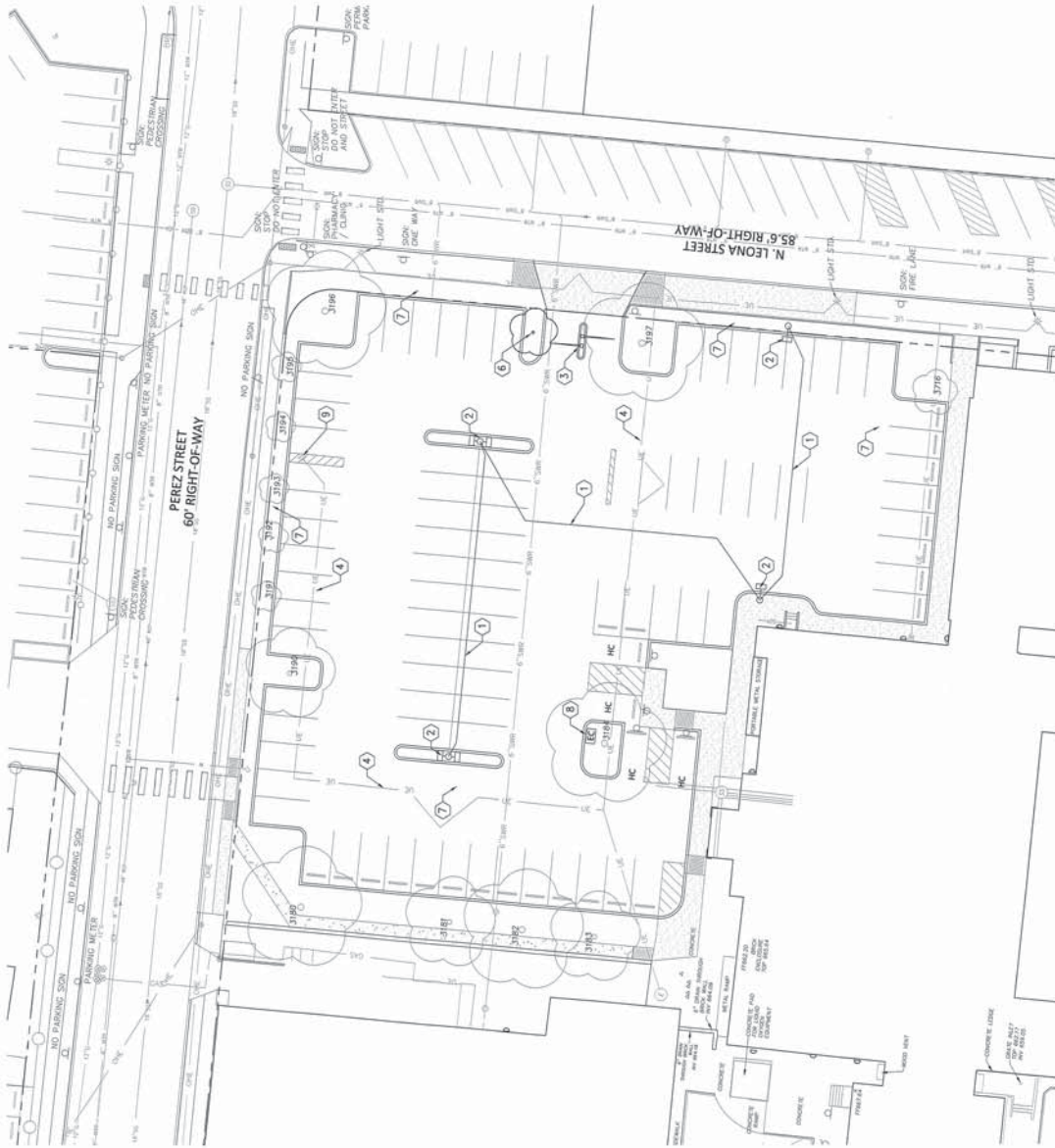
PROJECT NO.: 123456789
JOB NO.: 123456789
SHEET: 1 OF 1

PROJECT NO.: 123456789
JOB NO.: 123456789
SHEET: 1 OF 1

PROJECT NO.: 123456789
JOB NO.: 123456789
SHEET: 1 OF 1

PROJECT NO.: 123456789
JOB NO.: 123456789
SHEET: 1 OF 1





SYMBOLS:

- THREE
- SON
- LIGHT POLE
- FIRE HYDRANT
- SEWER MANHOLE
- IRRIGATION CONTROL VALVE
- WATER VALVE
- GAS VALVE
- MANHOLE STORM
- CLEAN OUT
- GUARD POST
- WATER METER
- COLUMN
- MANHOLE TELEPHONE
- TELEPHONE PESTAL
- SHRUB

THE EXISTING AND LOCATION OF UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES DURING CONSTRUCTION.

KEY NOTES

1. PROPOSED ELECTRIC CONDUIT FOR LIGHTING. SEE ELECTRICAL PLANS AND SPECIFICATIONS FOR CONDUIT AND WIRE.
2. PROPOSED LIGHT STANDARD. SEE ELECTRICAL PLANS FOR DETAILS.
3. PROPOSED RELOCATED ELECTRIC GATE. SEE ELECTRICAL PLANS FOR DETAILS.
4. EXISTING ELECTRICAL POWER TO BE RELOCATED OR RE-ROUTED. SEE ELECTRICAL PLANS.
5. PROPOSED EMERGENCY CALL BOX. SEE ELECTRICAL PLANS.
6. PROPOSED NEW 6" CEDAR ELM TREE. SEE LANDSCAPE PLANS FOR DETAILS.
7. EXISTING IRRIGATION LINES AND APPURTENANCES TO BE RELOCATED OR RE-ROUTED. SEE LANDSCAPE PLANS.
8. EMERGENCY CALL BOX.
9. EXISTING LIGHT STANDARD TO REMAIN AND BE PROTECTED DURING CONSTRUCTION.



The seal appearing on this document was authorized by

CARL BAIN

P.E. 56996 ON

09/03/2016

LLB-R

TREE PROTECTION NOTES

1. ALL TREES ON THE PROPERTY SHALL BE PRESERVED UNLESS OTHERWISE NOTED.
2. TREE PROTECTION SHALL CONFORM TO THE TREE PRESERVATION AND PROTECTION PLAN.
3. TREE PROTECTION SHALL CONFORM TO THE TREE PRESERVATION AND PROTECTION PLAN.
4. TREE PROTECTION SHALL CONFORM TO THE TREE PRESERVATION AND PROTECTION PLAN.
5. TREE PROTECTION SHALL CONFORM TO THE TREE PRESERVATION AND PROTECTION PLAN.
6. TREE PROTECTION SHALL CONFORM TO THE TREE PRESERVATION AND PROTECTION PLAN.
7. TREE PROTECTION SHALL CONFORM TO THE TREE PRESERVATION AND PROTECTION PLAN.
8. TREE PROTECTION SHALL CONFORM TO THE TREE PRESERVATION AND PROTECTION PLAN.
9. TREE PROTECTION SHALL CONFORM TO THE TREE PRESERVATION AND PROTECTION PLAN.



UTILITY PLAN
SCALE: 1" = 20'-0"

NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
37		
38		
39		
40		
41		
42		
43		
44		
45		
46		
47		
48		
49		
50		
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
71		
72		
73		
74		
75		
76		
77		
78		
79		
80		
81		
82		
83		
84		
85		
86		
87		
88		
89		
90		
91		
92		
93		
94		
95		
96		
97		
98		
99		
100		

ROBERT B. GREEN
DOWNTOWN CAMPUS
PERMIT PARKING LOT
UTILITY PLAN

PREPARED BY:
RAIN MEDINA BAIN, INC.
ENGINEERS & SURVEYORS
210494-7222
210494-7222
TYPE F-171 / TWPIS 10030900

DESIGNED BY:	REV
DRAWN BY:	REV
APPROVED BY:	REV
DATE:	JUNE 2016
JOB NO.:	C-1418
SHEET:	C-5

Point No.	Spot No.	Size / Type	Spot No.
3380	777	15" x 96"	47
3381	778	15" x 96"	30
3382	779	15" x 96"	47
3383	780	15" x 96"	30
3384	781	15" x 96"	47
3385	782	15" x 96"	5
3386	783	15" x 96"	5
3387	784	15" x 96"	5
3388	785	15" x 96"	5
3389	786	15" x 96"	5
3390	787	15" x 96"	30
3391	788	15" x 96"	5
3392	789	15" x 96"	5
3393	790	15" x 96"	5
3394	791	15" x 96"	5
3395	792	15" x 96"	5
3396	793	15" x 96"	47
3397	794	15" x 96"	47
3398	795	15" x 96"	15
3399	796	15" x 96"	15
3400	797	15" x 96"	15

TREE LIST



SYMBOLS:

- TREE
- △ SIGN
- LIGHT POLE
- PRE-HOLE
- SIGN
- IRRIGATION CONTROL VALVE
- WATER VALVE
- GAS VALVE
- MANHOLE
- CLEAN OUT
- GROUND POST
- WOOD POST
- COLUMN
- MANHOLE TELEPHONE
- TELEPHONE PICOCTAL
- SHRUB

LEGEND

- 660.90 T CURB ELEVATION
- 660.90 B BOTTOM ELEVATION
- 660.90 D GROUND ELEVATION
- 660.90 W SIDEWALK ELEVATION
- 660.90 C CONCRETE ELEVATION
- ← DIRECTION OF FLOW

KEY NOTES

1. PROPOSED 6" PARKING CURB. SEE CIVIL DETAILS SHEET C-18.
2. PROPOSED HAND-UP RAMP. SEE CIVIL DETAILS SHEET C-18.
3. PROPOSED CONCRETE SIDEWALK. SEE CIVIL DETAILS SHEET C-18.
4. PROPOSED COMBINATION SIDEWALK AND RETAINING WALL. SEE CIVIL DETAILS SHEET C-18.
5. PROPOSED ASPHALT PAVEMENT. SEE CIVIL DETAILS SHEET C-18.
6. PROPOSED HAND-UP PARKING SIGN. FOUR (4) REQUIRED THIS SITE. SEE CIVIL DETAIL SHEET C-18.



The seal appearing on this document was authorized by
CARL BAIN
P.E. 56996 ON
06/03/2016

Carl Bain

BAIN MEDINA BAIN, INC.
ENGINEERS & SURVEYORS
210/494-7225
210/494-7225
TX REG. 76216
TYPE: P-112 / TRFIS: 10030900

TREE PROTECTION NOTES

1. ALL TREES ON THIS PROPERTY SHALL BE PRESERVED UNLESS OTHERWISE NOTED.
2. THE PROTECTOR SHALL CONFORM TO THE TREE PRESERVATION AND PROTECTION PLAN.
3. THE PROTECTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF THE PROTECTOR DURING THE CONSTRUCTION WORK. SEE LANDSCAPE PLANS.

GRADING PLAN
SCALE: 1" = 20'-0"



NO.	DATE	DESCRIPTION
1	06/03/2016	PREPARED BY: BAIN MEDINA BAIN, INC.
2	06/03/2016	DESIGNED BY: BAIN MEDINA BAIN, INC.
3	06/03/2016	CHECKED BY: BAIN MEDINA BAIN, INC.
4	06/03/2016	APPROVED BY: BAIN MEDINA BAIN, INC.
5	06/03/2016	DATE: JUNE 2016
6	06/03/2016	PROJECT: DOWNTOWN CAMPUS PERMIT PARKING LOT GRADING PLAN
7	06/03/2016	SHEET: C-18

C-6

PROJECT NAME	PROPERTY OWNER	PROJECT DESCRIPTION	COMPLETION DATE	PROJECT AREA	NET AREA	PERCENTAGE IMPROVEMENT
University Health System - New Clinic	Private	Construction of new parking lot including curb, drainage, lighting, irrigation, and master gate improvements.	2004	1.04 Acres	0.88 Acres	0.53
University Health System - New Clinic	Private	Soil disturbing activities will include preparing site clearing and grubbing, grading and excavation, for parking lot and stormwater collection, erosion and sediment control, and gate improvements.	2004	1.04 Acres	0.88 Acres	0.53

MANHOLE STORM
CLEAN OUT
GUARD POST
WATER METER
COLUMN
MANHOLE TELEPHONE
TELEPHONE PEDESTAL
HUB

NAME OF RECORDING WATER: _____ The stream water will flow into the San Pedro Creek.

The existing Upoak is Bayside City (MS).
1 to 2 percent slopes.

SOIL STABILIZATION PRACTICES:

☒ TEMPORARY SEEDING
☒ PERMANENT PLANTING, SEEDING, OR SEEDING
☒ MULCHING
☒ MATS OR GEOTEXTILE BARRIET
☒ BUFFER ZONES
☒ PRESERVATION OF NATURAL RESOURCES

OTHERS DISTURBED AREAS ON WHICH CONSTRUCTION ACTIVITY HAS OCCURRED TEMPORARILY OR PERMANENTLY SHALL BE STABILIZED WITHIN 14 DAYS UNLESS ACTIVITIES ARE SCHEDULED TO

☒ TEMPORARY SEEDING
☒ PERMANENT PLANTING, SOODING, OR SEEDING
☐ MOWING
☐ SOIL RETENTION BLANKET
☐ BUFFER ZONES
☒ PRESERVATION OF NATURAL RESOURCES

OTHER: DISTURBED AREAS ON WHICH CONSTRUCTION ACTIVITY HAS OCCURRED TEMPORARILY OR PERMANENTLY SHALL BE STABILIZED WITHIN 14 DAYS UNLESS ACTIVITIES ARE SCHEDULED TO

[illegible]

fully under penalty of law that I understand the terms and conditions of the general National Pollutant Discharge Elimination System (NPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification plan.

LEGEND

CONSTRUCTION EXIT (TYPE 1)

SEGMENT CONTROL FENCE

GARAGE FILTER BARS

DIRECTION OF FLOW

STD

- 1 CRANEL FILTER BAGS
- 2 SEDIMENT CONTROL FENCE
- 3 CONSTRUCTION EXIT, (SEE PLAN)

ALL TREES ON THE PROPERTY SHALL BE PRESERVED UNLESS OTHERWISE NOTED. TREES SHALL BE PROTECTED AGAINST INJURY OR DAMAGE, INCLUDING CUTTING, SOIL COMPACTION, BRUIING, OR SINKING OF ROOTS.

TREE PROTECTION SHALL CONFORM TO THE TREE PRESERVATION AND PROTECTION PLAN BE IN PLACE BEFORE ANY EXCAVATION OR GRADING IS BEGUN AND MAINTAINED FOR THE DURATION OF THE PROJECT. SEE ATTACHED SHEET 10-1, 10-2, 10-3, 10-4, 10-5, 10-6, 10-7, 10-8, 10-9, 10-10, 10-11, 10-12, 10-13, 10-14, 10-15, 10-16, 10-17, 10-18, 10-19, 10-20, 10-21, 10-22, 10-23, 10-24, 10-25, 10-26, 10-27, 10-28, 10-29, 10-30, 10-31, 10-32, 10-33, 10-34, 10-35, 10-36, 10-37, 10-38, 10-39, 10-40, 10-41, 10-42, 10-43, 10-44, 10-45, 10-46, 10-47, 10-48, 10-49, 10-50, 10-51, 10-52, 10-53, 10-54, 10-55, 10-56, 10-57, 10-58, 10-59, 10-60, 10-61, 10-62, 10-63, 10-64, 10-65, 10-66, 10-67, 10-68, 10-69, 10-70, 10-71, 10-72, 10-73, 10-74, 10-75, 10-76, 10-77, 10-78, 10-79, 10-80, 10-81, 10-82, 10-83, 10-84, 10-85, 10-86, 10-87, 10-88, 10-89, 10-90, 10-91, 10-92, 10-93, 10-94, 10-95, 10-96, 10-97, 10-98, 10-99, 10-100, 10-101, 10-102, 10-103, 10-104, 10-105, 10-106, 10-107, 10-108, 10-109, 10-110, 10-111, 10-112, 10-113, 10-114, 10-115, 10-116, 10-117, 10-118, 10-119, 10-120, 10-121, 10-122, 10-123, 10-124, 10-125, 10-126, 10-127, 10-128, 10-129, 10-130, 10-131, 10-132, 10-133, 10-134, 10-135, 10-136, 10-137, 10-138, 10-139, 10-140, 10-141, 10-142, 10-143, 10-144, 10-145, 10-146, 10-147, 10-148, 10-149, 10-150, 10-151, 10-152, 10-153, 10-154, 10-155, 10-156, 10-157, 10-158, 10-159, 10-160, 10-161, 10-162, 10-163, 10-164, 10-165, 10-166, 10-167, 10-168, 10-169, 10-170, 10-171, 10-172, 10-173, 10-174, 10-175, 10-176, 10-177, 10-178, 10-179, 10-180, 10-181, 10-182, 10-183, 10-184, 10-185, 10-186, 10-187, 10-188, 10-189, 10-190, 10-191, 10-192, 10-193, 10-194, 10-195, 10-196, 10-197, 10-198, 10-199, 10-200, 10-201, 10-202, 10-203, 10-204, 10-205, 10-206, 10-207, 10-208, 10-209, 10-210, 10-211, 10-212, 10-213, 10-214, 10-215, 10-216, 10-217, 10-218, 10-219, 10-220, 10-221, 10-222, 10-223, 10-224, 10-225, 10-226, 10-227, 10-228, 10-229, 10-230, 10-231, 10-232, 10-233, 10-234, 10-235, 10-236, 10-237, 10-238, 10-239, 10-240, 10-241, 10-242, 10-243, 10-244, 10-245, 10-246, 10-247, 10-248, 10-249, 10-250, 10-251, 10-252, 10-253, 10-254, 10-255, 10-256, 10-257, 10-258, 10-259, 10-260, 10-261, 10-262, 10-263, 10-264, 10-265, 10-266, 10-267, 10-268, 10-269, 10-270, 10-271, 10-272, 10-273, 10-274, 10-275, 10-276, 10-277, 10-278, 10-279, 10-280, 10-281, 10-282, 10-283, 10-284, 10-285, 10-286, 10-287, 10-288, 10-289, 10-290, 10-291, 10-292, 10-293, 10-294, 10-295, 10-296, 10-297, 10-298, 10-299, 10-300, 10-301, 10-302, 10-303, 10-304, 10-305, 10-306, 10-307, 10-308, 10-309, 10-310, 10-311, 10-312, 10-313, 10-314, 10-315, 10-316, 10-317, 10-318, 10-319, 10-320, 10-321, 10-322, 10-323, 10-324, 10-325, 10-326, 10-327, 10-328, 10-329, 10-330, 10-331, 10-332, 10-333, 10-334, 10-335, 10-336, 10-337, 10-338, 10-339, 10-340, 10-341, 10-342, 10-343, 10-344, 10-345, 10-346, 10-347, 10-348, 10-349, 10-350, 10-351, 10-352, 10-353, 10-354, 10-355, 10-356, 10-357, 10-358, 10-359, 10-360, 10-361, 10-362, 10-363, 10-364, 10-365, 10-366, 10-367, 10-368, 10-369, 10-370, 10-371, 10-372, 10-373, 10-374, 10-375, 10-376, 10-377, 10-378, 10-379, 10-380, 10-381, 10-382, 10-383, 10-384, 10-385, 10-386, 10-387, 10-388, 10-389, 10-390, 10-391, 10-392, 10-393, 10-394, 10-395, 10-396, 10-397, 10-398, 10-399, 10-400, 10-401, 10-402, 10-403, 10-404, 10-405, 10-406, 10-407, 10-408, 10-409, 10-410, 10-411, 10-412, 10-413, 10-414, 10-415, 10-416, 10-417, 10-418, 10-419, 10-420, 10-421, 10-422, 10-423, 10-424, 10-425, 10-426, 10-427, 10-428, 10-429, 10-430, 10-431, 10-432, 10-433, 10-434, 10-435, 10-436, 10-437, 10-438, 10-439, 10-440, 10-441, 10-442, 10-443, 10-444, 10-445, 10-446, 10-447, 10-448, 10-449, 10-450, 10-451, 10-452, 10-453, 10-454, 10-455, 10-456, 10-457, 10-458, 10-459, 10-460, 10-461, 10-462, 10-463, 10-464, 10-465, 10-466, 10-467, 10-468, 10-469, 10-470, 10-471, 10-472, 10-473, 10-474, 10-475, 10-476, 10-477, 10-478, 10-479, 10-480, 10-481, 10-482, 10-483, 10-484, 10-485, 10-486, 10-487, 10-488, 10-489, 10-490, 10-491, 10-492, 10-493, 10-494, 10-495, 10-496, 10-497, 10-498, 10-499, 10-500, 10-501, 10-502, 10-503, 10-504, 10-505, 10-506, 10-507, 10-508, 10-509, 10-510, 10-511, 10-512,



NORTH

SCALE: 1" = 30'-0"

the relationship, maximum adjustment to external construction was observed in the peak and prepeak periods. The results of the study indicate that the maximum adjustment to external construction was observed in the peak and prepeak periods. The results of the study indicate that the maximum adjustment to external construction was observed in the peak and prepeak periods.

THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:

1. Initial contact.
2. Assessment of the site.
3. Construction of a grid around the accident.
4. Confined parking areas, down and sidewalk.
5. Initial investigation.
6. When all construction activity is complete and the site is stabilized and approved by the project engineer, removal of temporary structural controls and removal any areas delaminated by their removal.
7. The contractor is responsible for implementing and monitoring the storm water pollution prevention plan.

DRAINAGE STRUCTURES, CHANNELS, STORM SEWERS, AND STREETS.

INSPECTION. ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE DONE AT THE EARLIEST DATE POSSIBLE, BUT NO LATER THAN 7 CALENDAR DAYS AFTER THE SURROUNDING EXPOSED GROUND HAS DRIED SUFFICIENTLY TO PREVENT FURTHER DAMAGE FROM HEAVY EQUIPMENT.

INSPECTION. AN INSPECTION WILL BE PERFORMED BY THE CONTRACTOR PERIODICALLY AND AFTER EVERY MAJOR PROJECT RUN (AS RECORDED ON A NON-FREEZING RAIN GAUGE TO BE LOCATED AT THE PROJECT SITE). AN INSPECTION AND MAINTENANCE REPORT WILL BE MADE FOR EACH INSPECTION. BASED ON THE INSPECTION RESULTS, THE CONTROLS WILL BE REVISED PER THE INSPECTION REPORT.

METAL DUMPSITER. THE DUMPSITER WILL MEET ALL STATE AND LOCAL CITY SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE DEPOSITED IN THE DUMPSITER WILL BE EMPTIED AS NECESSARY OR AS REQUIRED BY LOCAL REGULATIONS AND THE TRASH WILL BE HAULED TO A LOCAL DUMP. NO CONSTRUCTION WASTE MATERIAL WILL BE BURIED ON SITE.

HAZARDOUS WASTE (INCLUDING SPILL REPORTING) AT A MINIMUM, ANY PRODUCTS IN THE FOLLOWING CATEGORIES ARE CONSIDERED TO BE HAZARDOUS: PAINTS, ACIDS FOR CLEANING, MASONRY SURFACES, CEMENTING COMPOUNDS, ASPHALT PRODUCTS, CHEMICAL AGENTS FOR SOIL STABILIZATION OR CONCRETE CURING COMPOUNDS AND ADDITIVES, IN THE EVENT OF A HAZARDOUS MATERIAL SPILL, THE THROT SPILL COORDINATOR SHALL BE CONTACTED IMMEDIATELY.

HAZARDOUS WASTE: ALL SANITARY WASTE WILL BE COLLECTED FROM PORTABLE UNITS AS NECESSARY, OR AS REQUIRED BY LOCAL REGULATIONS BY A LICENSED SANITARY WASTE MANAGEMENT CORPORATION.

_____	HAUL ROADS DAMPENED FOR DUST CONTROL
_____	LOADED HAUL TRUCKS TO BE COVERED WITH TARP/AULIN
_____	EXCESS DIRT ON ROAD REMOVED DAILY
_____	STABILIZED CONSTRUCTION ENTRANCE

REMAINS DISPOSAL AREAS, STOCKPILES, AND HALL ROADS SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE AND CONTROL THE AMOUNT OF SEDIMENT THAT MAY ENTER RECEIVING WATERS. DISPOSAL AREAS SHALL NOT BE LOCATED IN ANY WETLAND, WATERBODY OR STREAM-BED. CONSTRUCTION STAGING AREAS AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED BY THE CONTRACTOR IN A MANNER TO MINIMIZE THE RISK OF POLLUTANTS.

I certify under penalty of law that this document and all attachments were prepared under the direction and supervision of someone with a system designed to ensure that no false or misleading information was provided and that all information was true, correct, and complete. I am not aware of any person furnishing false or misleading information on this document, and I am not a person who has furnished such information in the past.

to certify under penalty of law that this document and all attachments were prepared under my supervision in accordance with a system designed to ensure that qualified personnel properly reviewed and evaluated the information submitted. Based on my review of the information submitted, I declare that the information is true and accurate, and I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for providing false statements.

document and all attachments were prepared under my supervision and I am designed to assure that qualified personnel properly reviewed the information. Based on my inquiry of the person or persons who submitted the information, the information submitted for gathering the information, the information submitted is true, accurate, and complete. I am aware that there is no other information, including the possibility of false and misleading information, including the possibility of false and misleading information.

P.E. 56996 ON
06/03/2016

Lal B. Patel

ENGINEERS & SURVEYORS
7073 San Pedro Avenue
San Antonio, Texas 78216
210/494-7223

SITE CANOPY CALCULATION

45,340sf (site area) x 15% (within CRA) = 6,801sf (canopy required)

EXISTING TREE CANOPY: (EC)
1,200sf x 6 (existing large trees)
8,750sf x 6 (existing medium/large trees)
550sf x 5 (existing small trees)
27,50sf x 5 (existing small tree)
Total Existing Canopy Provided
= 6,625sf (existing canopy)

NEW TREE CANOPY: (NC)
1080sf x 1 (new large trees)
788sf x 1 (new medium/large trees)
495sf x 1 (new medium trees)
248sf x 1 (new small trees)
Total New Canopy Provided
= 7,413sf (new canopy)

SUMMARY
Canopy Required
Canopy Provided
Canopy Provided
Total Canopy Provided
= 6,801sf (site within CRA)
= 6,625sf (existing canopy)
= 788sf (new canopy)
= 7,413sf

NOTE:
ALL TREES TO REMAIN SHALL HAVE
TREE PROTECTION FENCING PER
COSA REQUIREMENTS. REFER TO
DETAIL SHEET & NOTES

Tree Preservation - 40 points, maximum
4 to 6 inch trees 3 points each
6 to 12 inch trees 4 points each
12 to 18 inch trees 6 points each
18 inch trees and larger 8 points each

Inside Streetway:
full credit up to 30 points
1/2 credit for total above 30 points

Outside Streetway:
1/2 credit up to a maximum of 15 points

Total Points: Tree Preservation
(40 Points, max.) 40

Parking Lot Shading
Percent Shaded 20 ✓
25% 25
35% 35
50% 50

Total Points: Parking Lot Shading
Screening of Surface Parking - 25 points
Street Trees - 25 Points
Understory Preservation or Restoration - 15 Pts.
Infill or Retrofit Use Pattern - 25 pts.
Total Points - Elective Criteria 85

ELECTIVE REQUIREMENTS

70 points required

Tree Preservation - 40 points, maximum
4 to 6 inch trees 3 points each
6 to 12 inch trees 4 points each
12 to 18 inch trees 6 points each
18 inch trees and larger 8 points each

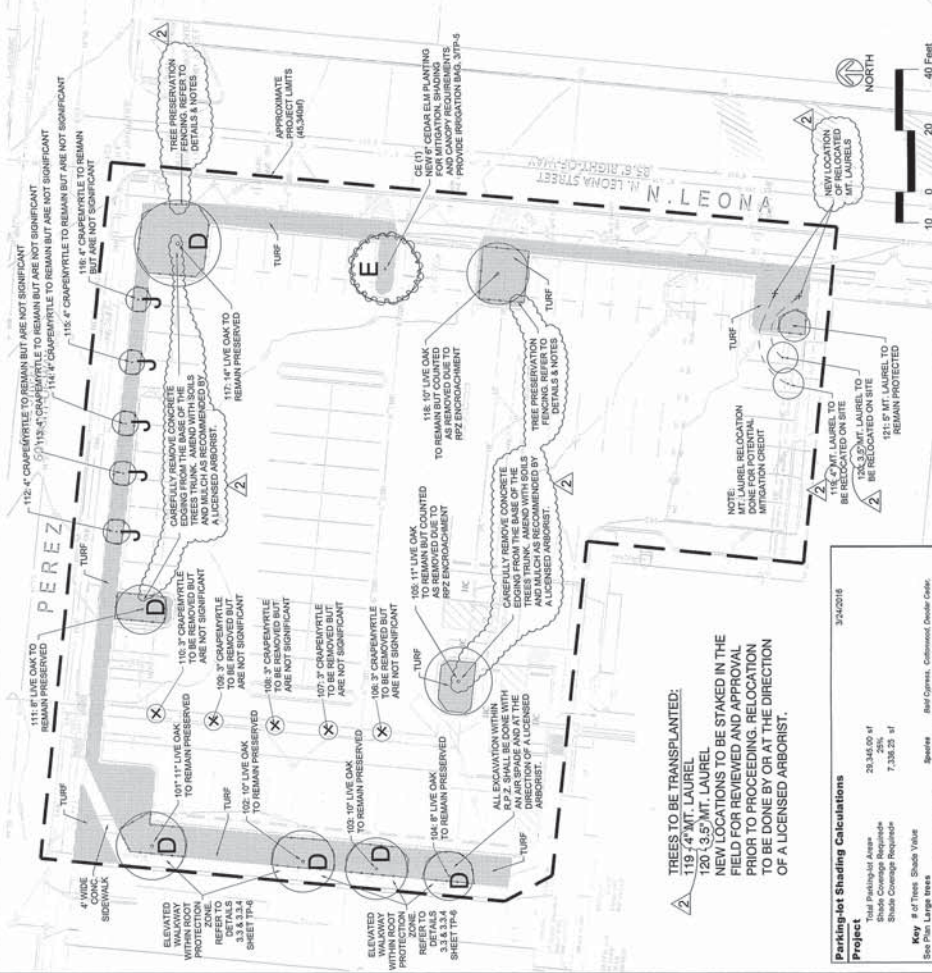
Inside Streetway:
full credit up to 30 points
1/2 credit for total above 30 points

Outside Streetway:
1/2 credit up to a maximum of 15 points

Total Points: Tree Preservation
(40 Points, max.) 40

Parking Lot Shading
Percent Shaded 20 ✓
25% 25
35% 35
50% 50

Total Points: Parking Lot Shading
Screening of Surface Parking - 25 points
Street Trees - 25 Points
Understory Preservation or Restoration - 15 Pts.
Infill or Retrofit Use Pattern - 25 pts.
Total Points - Elective Criteria 85



TREE PRESERVATION PLAN:
UHC CLINIC PERMIT PARKING LOT

SCALE - 1"=20'

TREE SCHEDULE (CPP)

Qty.	Key	Common Name	Botanical Name	Size / Remarks
1	CE	Cedar Elm	Ulmus crassifolia	8" cal., 18" ht., 8-10' spread, 100% canopy coverage, 100% canopy coverage required for mitigation
		TURF GRASS		
		TURF		100% Solid Soil: TFWAY 419 Bermuda or approved substitution

Key # of Tree Shade Value		Shade Coverage Requirements		Shade Coverage Requirements	
A	0	100%	0.00	0.00	0.00
B	0	75%	0.00	0.00	0.00
C	0	50%	0.00	0.00	0.00
D	0	25%	0.00	0.00	0.00
E	0	0%	0.00	0.00	0.00
F	0	0%	0.00	0.00	0.00
G	0	0%	0.00	0.00	0.00
H	0	0%	0.00	0.00	0.00
I	0	0%	0.00	0.00	0.00
J	0	0%	0.00	0.00	0.00
K	0	0%	0.00	0.00	0.00
L	0	0%	0.00	0.00	0.00
Total Shade Coverage Provided		2,811.25 sf		24.81%	
Total Shade Coverage Required		7,413.00 sf		64.81%	
Total Shade Coverage Shortage		4,601.75 sf		39.96%	
Total Shade Coverage Surplus		0.00 sf		0.00%	
Total Shade Coverage Deficit		4,601.75 sf		39.96%	

IRRIGATION NOTE:
ALL TURF, NEW TREES AND RELOCATED TREES
SHALL BE PROVIDED WITH A TEMPORARY
IRRIGATION SYSTEM UNTIL THE MAINTENANCE
AND WARRANTY PERIOD HAS EXPIRED.



Prepared By:
BENDER WELLS CLARK DESIGN, INC.
2100 San Felipe Avenue
Suite 210
San Antonio, TX 78216
Phone: 214-591-7223
Fax: 214-591-7223

Prepared By:
BENDER WELLS CLARK DESIGN, INC.
2100 San Felipe Avenue
Suite 210
San Antonio, TX 78216
Phone: 214-591-7223
Fax: 214-591-7223

Prepared By:
BENDER WELLS CLARK DESIGN, INC.
2100 San Felipe Avenue
Suite 210
San Antonio, TX 78216
Phone: 214-591-7223
Fax: 214-591-7223

Prepared By:
BENDER WELLS CLARK DESIGN, INC.
2100 San Felipe Avenue
Suite 210
San Antonio, TX 78216
Phone: 214-591-7223
Fax: 214-591-7223

Prepared By:
BENDER WELLS CLARK DESIGN, INC.
2100 San Felipe Avenue
Suite 210
San Antonio, TX 78216
Phone: 214-591-7223
Fax: 214-591-7223

Prepared By:
BENDER WELLS CLARK DESIGN, INC.
2100 San Felipe Avenue
Suite 210
San Antonio, TX 78216
Phone: 214-591-7223
Fax: 214-591-7223

Prepared By:
BENDER WELLS CLARK DESIGN, INC.
2100 San Felipe Avenue
Suite 210
San Antonio, TX 78216
Phone: 214-591-7223
Fax: 214-591-7223

Prepared By:
BENDER WELLS CLARK DESIGN, INC.
2100 San Felipe Avenue
Suite 210
San Antonio, TX 78216
Phone: 214-591-7223
Fax: 214-591-7223



TEXAS REGISTERED
ENGINEERING FIRM F10487
700 N. ST. MARY'S
SUITE 1225
SAN ANTONIO, TX 78205
WWW.BOMENGINEERING.NET
PHONE: 210.299.4522
FAX: 210.299.4525

THIS DOCUMENT AND THE
SIGNATURE WAS AUTHORIZED BY
ROGER O. MENDEZ, P.E. 93809

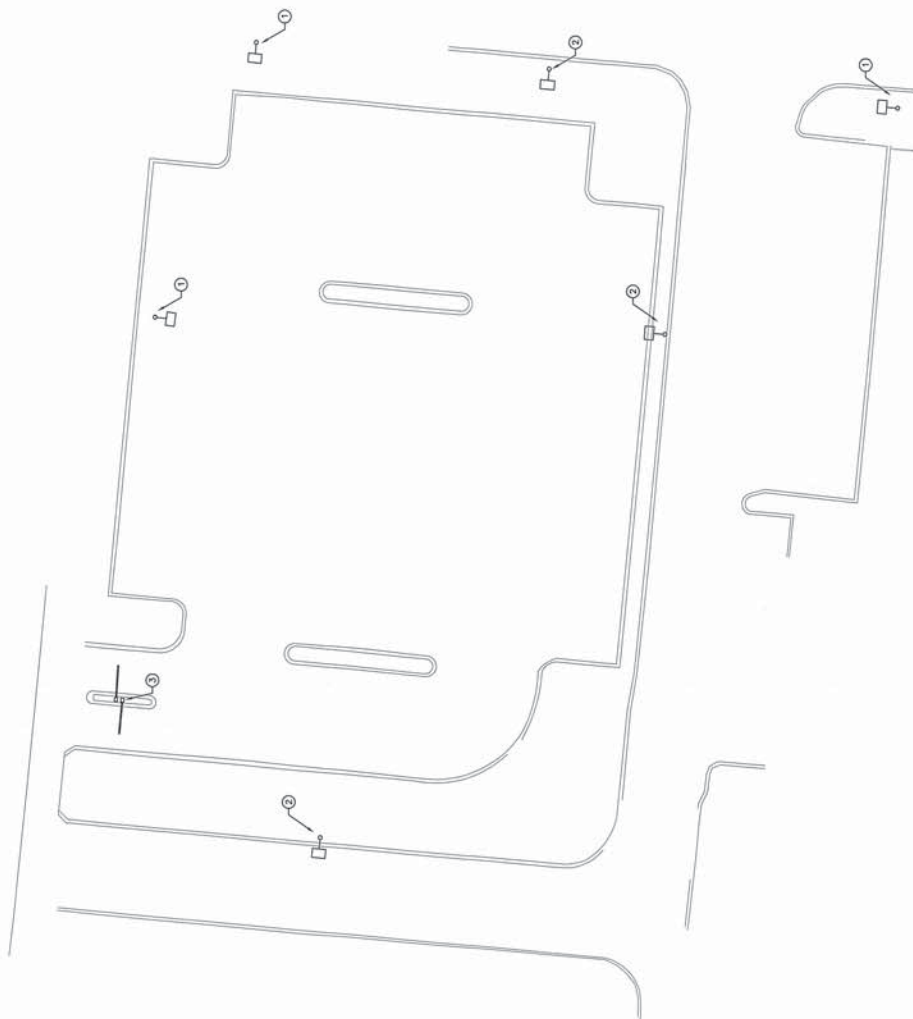


POWER GENERAL DEMOLITION NOTES:

- [illegible]

POWER KEYED NOTES:

- ① EXISTING FIXTURE TO REMAIN
- ② EXISTING FIXTURE TO BE REMOVED, MAINTAIN CIRCUIT, PROVIDE 12" x 12" NOMINAL, FIBER GLASS HAND HOLE IN AREA FOR FUTURE ACCESS.
- ③ GATES AND ASSOCIATE HARDWARE ARE TO BE SALVAGED FOR RELOCATION, SALVAGE CIRCUITRY FOR RE-USE.



1 DEMOLITION ELECTRICAL PLAN

SCALE: 1/20" = 1'-0"



NORTH

[illegible]

PREPARED BY:

RAIN MEDINA BAIN, INC.

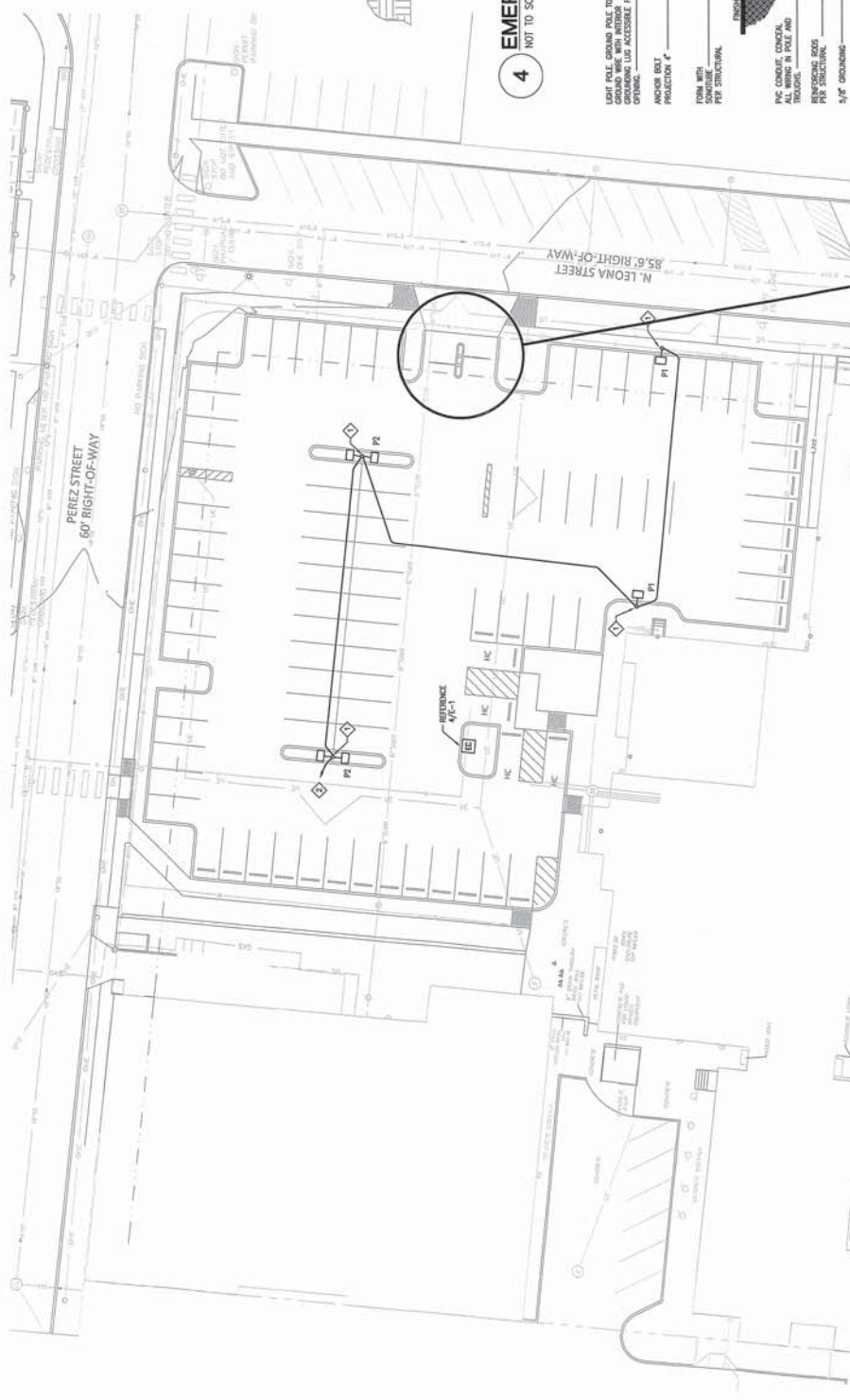
DALY MEDINA DALY, INC.
ENGINEERS & SURVEYORS

VAB
7073 San Pedro Avenue
San Antonio, Texas 78216

VIP
San Antonio, Texas 78210
210/494-7223

TYPE: F-1712 / TBPLS: 10020900

100

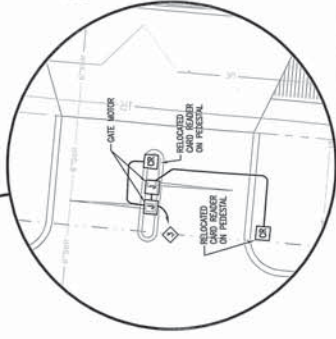


1 **PERMIT PARKING SITE PLAN**
SCALE: 1/20"=1'-0"

SCALE: 1/20" = 1'-0"

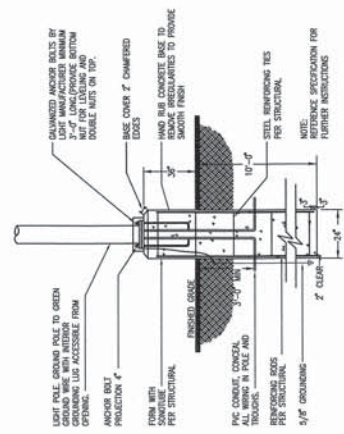


NORTH



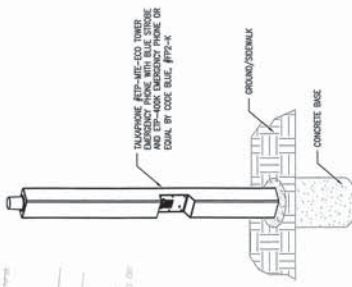
3 TYPICAL POLE BASE
NOT TO SCALE

3) NOT TO SCALE



4 EMERGENCY CALL CENTER POLE 

4) EVIDENCE
NOT TO SCALE



TEXAS REGISTERED
ENGINEERING FIRM F-10487
700 N. ST. MARY'S
SUITE 1325
SAN ANTONIO, TX 78209
WWW.EDMUNDOENGINERING.NET
PHONE: 210.299.4522
FAX: 210.299.4525

THIS SEAL APPEARING ON THIS
DOCUMENT WAS FURNISHED BY
ROGER B. MENDEL, P.E. 93809
ON 06/03/2010



	PREPARED BY:		DATE:	JOB NO.:	MAY 2014	C-1413	SHEET	E-1
	BAIN MEDINA BAIN, INC. ENGINEERS & SURVEYORS 2070 San Pedro Avenue San Antonio, Texas 78216 210/494-7223		TYPE: F-1712 / TRFPLS: 10020000					

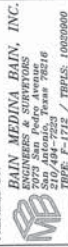
THIS DRAWING IS THE PROPERTY OF BAN MEDIA BAN, INC. AND SHALL NOT BE USED FOR ANY PURPOSE WITHOUT THE WRITTEN CONSENT OF AN AUTHORIZED AGENT OF BAN MEDIA BAN, INC. BAN MEDIA BAN, INC. ACCEPTS NO RESPONSIBILITY FOR THE USE OF THIS DRAWING FOR ANY PURPOSE AFTER SIX MONTHS FROM THE DATE INDICATED ON THIS DRAWING. ALL RIGHTS RESERVED. COPYRIGHT 2015 BAN MEDIA BAN, INC. ©



RGM
ENGINEER-BUILDER
TEXAS REGISTERED
700 N. ST. MARK'S
SUITE 200
SAN ANTONIO, TX 78205
WWW.RGMBUILDERS.COM
TEL: 210-359-4525
FAX: 210-359-4525
REGISTERED PROFESSIONAL ENGINEER
SINCE 1969



NO.	DATE	DESCRIPTION	EXPENSE BY:	NO.
		ROBERT B. GREEN		NO.
		DOWNTOWN CAMPUS		NO.
		NORTH PERMIT		APPROVE BY:
		PARKING PLAN		DATE:
				JAN. 20.11
				C-1418
				SHEET
				E-4



TREE LIST				TREE LIST			
POINT NO.	TAG NO.	SIZE & TYPE	DRIP DIA.	POINT NO.	TAG NO.	SIZE & TYPE	DRIP DIA.
1102	701	10" OAK	20"	1331	716	25" OAK	40"
1103	702	12" OAK	30"	1508	717	20" OAK	40"
1277	706	20" OAK	40"	1509	718	12" OAK	30"
1278	707	16" OAK	30"	1510	719	12" OAK	30"
1323	708	17" OAK	30"	1511	720	11" OAK	30"
1324	709	18" OAK	40"	1512	721	9" OAK	20"
1325	710	16" OAK	30"	1513	722	11" OAK	30"
1326	711	11" OAK	30"	1514	723	9" OAK	20"
1327	712	18" OAK	40"	1597	723	17" OAK	40"
1328	713	16" OAK	30"	1598	724	11" OAK	30"
1329	714	12" OAK	40"	1599	725	10" OAK	30"
1330	715	17" OAK	20"				

SYMBOLS:

- TREE
- MANHOLE SYMBOL
- △ SIGN
- CLEAN OUT
- ⊕ LIGHT POLE
- ⊙ WATER METER
- ⊙ SLEEP MANHOLE
- ⊙ COLUMN
- ⊙ MANHOLE TELEPHONE
- ⊙ TELEPHONE PILESTAL
- ⊙ WATER VALVE
- ⊙ GAS VALVE
- ⊙ SHRUB

CONTROL COORDINATES

POINT	NORTHING	EASTING	ELEVATION
100	13706778.91	2127314.39	663.71
110	13706620.64	2126993.41	660.33
1124	13706588.25	2127275.40	661.97
1416	13706613.80	2127089.77	661.51

FACE OF CURB COORDINATES

POINT	NORTHING	EASTING	DESC.	POINT	NORTHING	EASTING	DESC.
258	13706684.92	2127007.77	P-CURB	277	13706565.59	2127194.53	P-CURB
259	13706684.92	2127007.77	P-CURB	278	13706565.59	2127194.53	P-CURB
260	13706684.92	2127007.77	P-CURB	279	13706565.59	2127194.53	P-CURB
261	13706684.92	2127007.77	P-CURB	280	13706565.59	2127194.53	P-CURB
262	13706684.92	2127007.77	P-CURB	281	13706565.59	2127194.53	P-CURB
263	13706684.92	2127007.77	P-CURB	282	13706565.59	2127194.53	P-CURB
264	13706684.92	2127007.77	P-CURB	283	13706565.59	2127194.53	P-CURB
265	13706684.92	2127007.77	P-CURB	284	13706565.59	2127194.53	P-CURB
266	13706684.92	2127007.77	P-CURB	285	13706565.59	2127194.53	P-CURB
267	13706684.92	2127007.77	P-CURB	286	13706565.59	2127194.53	P-CURB
268	13706684.92	2127007.77	P-CURB	287	13706565.59	2127194.53	P-CURB
269	13706684.92	2127007.77	P-CURB	288	13706565.59	2127194.53	P-CURB
270	13706684.92	2127007.77	P-CURB	289	13706565.59	2127194.53	P-CURB
271	13706684.92	2127007.77	P-CURB	290	13706565.59	2127194.53	P-CURB
272	13706684.92	2127007.77	P-CURB	291	13706565.59	2127194.53	P-CURB
273	13706684.92	2127007.77	P-CURB	292	13706565.59	2127194.53	P-CURB
274	13706684.92	2127007.77	P-CURB	293	13706565.59	2127194.53	P-CURB
275	13706684.92	2127007.77	P-CURB	294	13706565.59	2127194.53	P-CURB
276	13706684.92	2127007.77	P-CURB	295	13706565.59	2127194.53	P-CURB

- TREE PROTECTION NOTES**
- ALL TREES ON THIS PROPERTY SHALL BE PROTECTED DURING CONSTRUCTION. TREES SHALL BE PROTECTED AGAINST DAMAGE BY EXCAVATION, DRILLING, OR OTHER CONSTRUCTION ACTIVITIES.
 - IF ANY TREE IS DAMAGED OR REMOVED, THE OWNER SHALL BE RESPONSIBLE FOR REPLACING OR RESTORING THE TREE TO ITS ORIGINAL CONDITION.
 - THE OWNER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FOR TREE REMOVAL OR PROTECTION.

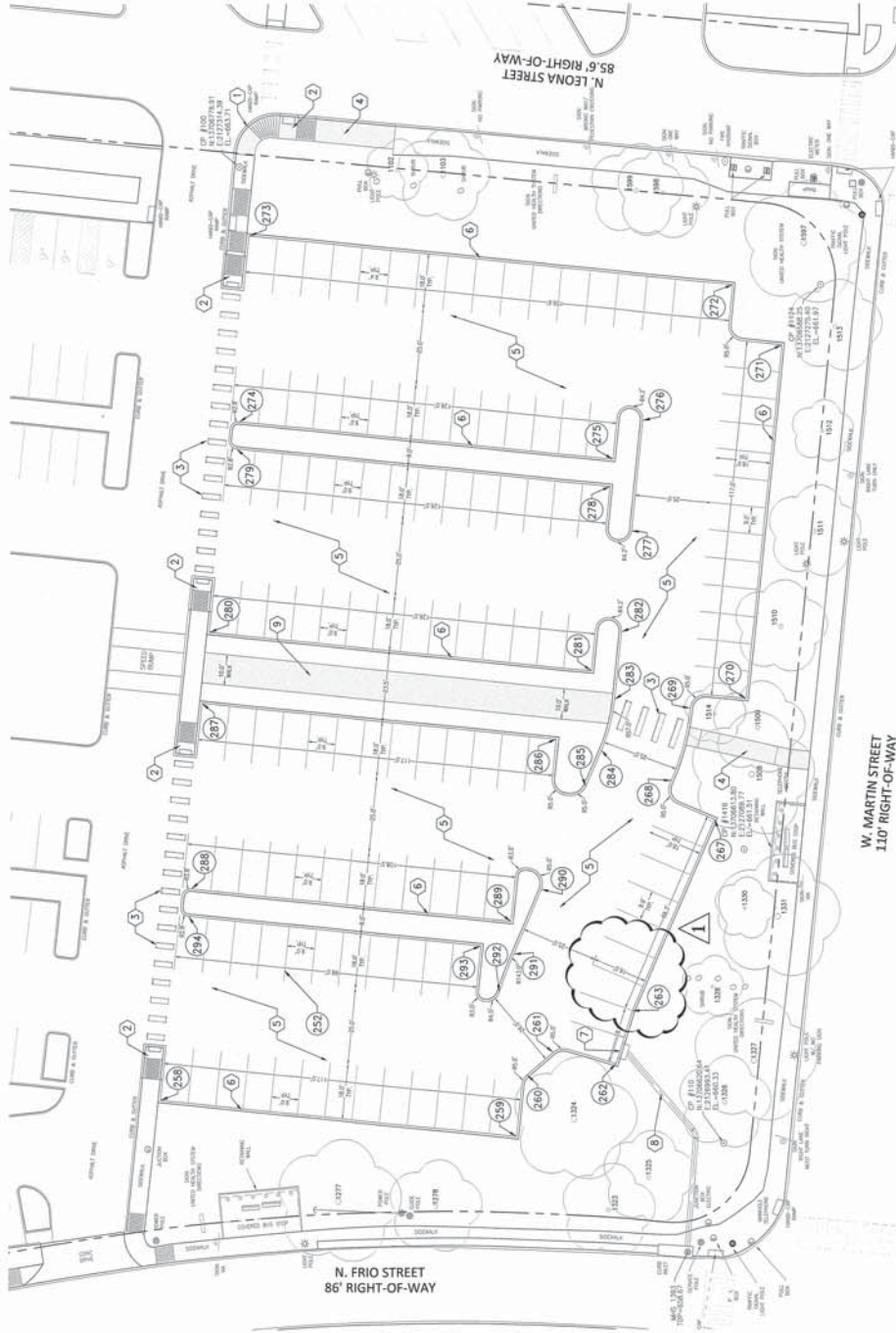
REMOVED TREES AND TREES	
NO.	DESCRIPTION
1	REMOVED TREES AND TREES
PREPARED BY: ROBERT B. GREEN DOWNTOWN CAMPUS SOUTH VISITOR PARKING DIMENSION CONTROL PLAN	
CHECKED BY: ROBERT B. GREEN DATE: 09/06/16	
APPROVED BY: ROBERT B. GREEN DATE: 09/06/16	
PROJECT NO.: 10050900 SHEET: C-10	



The seal appearing on this document was authorized by the State of Texas on 09/06/2016.

Robert B. Green

BAIN MEDINA BAIN, INC.
 ENGINEERS & SURVEYORS
 2110 69th Street, Suite 200
 San Antonio, Texas 78216
 TEL: 214-341-1111 / FAX: 214-341-1112



KEY NOTES


- PROPOSED CURB CURB SEE CIVIL DETAILS.
- PROPOSED MANHOLE RAMP SEE CIVIL DETAILS.
- PROPOSED CROSS WALK STRIPING SEE CIVIL DETAILS.
- PROPOSED CONCRETE SIDEWALK SEE CIVIL DETAILS.
- PROPOSED ASPHALT PAVEMENT SEE CIVIL DETAILS.
- PROPOSED 8" PARKING CURB SEE CIVIL DETAILS.
- PROPOSED 5" TYPE "C" MILET SEE CIVIL DETAILS.
- PROPOSED 18" PVC STORM PIPE TO EXISTING INLET.
- PROPOSED 18" PVC STORM PIPE TO EXISTING INLET.
- SEE LANDSCAPE PLAN.



DIMENSION CONTROL PLAN

SCALE: 1"= 20'-0"

1073 San Pedro Avenue
San Antonio, Texas 78216
210/494-7223
TYPE: F-1712 / TBPLS: 10080900

1	NO.	DATE	REMOVED SIGN AND THERE CLERK'S SIGNATURE
			<p>ROBERT B. GREEN DOWNTOWN CAMPUS SOUTH VISITOR PARKING GRADING PLAN</p> <p>RECORDED BY: BSA DRAWN BY: BSA CHECKED BY: BSA APPROVED BY: C9 DATE: JUNE 1981 JOB NO. C-4118 SHEET: 1 C-12</p> <p>PREPARED BY: BRAIN MEDINA BAIN, INC. ENGINEERS & SURVEYORS 10000 West Loop South, Suite 200 Dallas, Texas 75246 PHONE: 761-1115 / TELEX: 10020900</p> 

[illegible]

SPRINKLER LINES AS SHOWN ARE DIAGRAMMATIC BUT SHOULD BE REASONABLY FOLLOWED. LOCATIONS OF SPRINKLER HEADS SHALL BE ESTABLISHED BY THE CONTRACTOR BUT DESIGN SHOWN MAY NOT BE EXCEEDED WITHOUT NOTIFICATION FROM LANDSCAPE ARCHITECT.

INSTALL ALL VALVES IN 12" RECTANGULAR VALVE BOXES. VALVE SHOULD BE CENTERED IN BOX TO ALLOW EASY ACCESS TO VALVE ASSEMBLY AND COVER RATE.

ZONE PIPING IS ESPECIALLY IMPORTANT ON PROJECTS WHERE LONG RUNS ARE NECESSARY. "RULE OF THUMB" SIZING IS NOT ALLOWED ON THIS PROJECT. SIZING AS SHOWN MUST BE FOLLOWED.

INSTALL RAIN & FREEZE SWITCHES IN AN ELEVATED LOCATION CLEAR OF TREES OR OTHER OBSTRUCTIONS. INSTALL IN LOCATION EXPOSED TO EXTERIOR AMBIENT CONDITION.

ALLOW A MINIMUM OF 6" CLEARANCE FROM ANY STRUCTURE WHEN INSTALLING SPRINKLER HEADS. THIS INCLUDES CURBS, CARS, BUILDINGS, ETC.

INSTALL BLEEDING SUCH THAT A MINIMUM OF 6" EXTENDS BEYOND CURBS, VALVES, OR WALLS.

WHEN AN INSTALLATION SYSTEM MUST BE MAINTAINED BY ADJUSTING FLOW CONTROLS ON VALVES, SPRAY ZONES SHALL BE ADJUSTED TO 25 PSI OR IN THE FARTHEST HEAD IN EACH ZONE.

THE SYSTEM SHALL REQUIRE A MINIMUM OF _____ LB. STATIC PRESSURE FOR SYSTEM TO OPERATE PROPERLY. IRRIGATION DESIGNER HAS CONSIDERED PRESSURE EXCESSANCES ON ANY OTHER SITE PROBLEMS THAT MAY AFFECT THE EFFECTIVENESS OF THE SYSTEM.

ON-TWO TRUNKING IS ALLOWED WITHIN THE ROOF PROTECTION ZONES OF EXISTING ZONES. NO CUTTING OF ROOTS

This plan is complete and conforms to the design and installation parameters of the irrigation design and equipment standards set out in 35-510(j) and 35-511(c)(8) of the City of San Antonio Unified Development Code.

ZONE TYPE	Precipitation Rate (in/hr)	Water Desired Inch/Week	Time per cycle (min)	No. of Zones	Total Minutes	Total Hours
URB	1.56	1.00	37.97	4	151.9	2.53
ROTATOR	0.45	1.00	133.33	4	533.3	8.9
WATER BLANKET	3.58	1.00	16.8	1	16.8	0.3

NOTE: IT WILL BE NECESSARY TO DIVIDE TIME INTO 2 TO 3 CYCLES TO MINIMIZE RUNOFF. A TYPICAL SCHEDULE WOULD ALLOW WATERING TO OCCUR TWO DAYS PER WEEK. TOTAL WATERING TIME WOULD BE DIVIDED BY THE NUMBER OF WATERING SCHEDULES DESIGNED FOR SUMMER WATER USAGE. CONTRACTOR RESPONSIBLE FOR WATERING SCHEDULE DURING ESTABLISHMENT. FOLLOW LOCAL ORDINANCES DURING DROUGHT RESTRICTIONS.

MOST CRITICAL ZONE CHART	
PRESSURE-BALANCED CALCULATIONS AT ZONE 55	
DESIGN STATISTICS FOR CALCULATIONS	
PREMIER HEAD REQUIREMENT	40 PSI
ACTUAL ZONE FLOW	40 GPM
DESIGN VALVE LOSS	1"
PIPE LOSS	N/A
LESS 3 PSI	
PIPE FITTINGS LOSS FROM WATER SOURCE TO TURBINE HEAD	
ON-PUMP FITTINGS LOSS	1.4 PSI
ELECTRIC VALVE LOSS	1.8 PSI
ELEVATION NET GAIN/LOSS	0 PSI
SYSTEM MAXIMUM LOSS	0.4 PSI
WATER METER LOSS	3.7 PSI
MAKEDOWN LOSS	5 PSI
WASTEN VALVE LOSS	1.8 PSI
TYPE C COPPER LOSS	4.1 PSI
TOTAL NET LOSS	18.2 PSI
DESIGN PRESSURE	21.8 PSI

NOTE:

DESIGN PRESSURE IS LESS THAN STATIC PRESSURE, CONTACT
 REGISTRATION CONSULTANT.

NOTE:
IF DESIGN PRESSURE IS LESS THAN STATIC PRESSURE, CONTACT
IRRIGATION CONSULTANT.

421/16 CIVIL ENGINEER		USE CROSS-HATCH SCHEMATIC THAT IS NEAREST TO THE LOCATION FOR PERMIT	
No.	DATE	DESCRIPTION	DESIGNED BY:
1			DRAMIN BY: SS
2			APPROVED BY: SS
3			DATE: MAY 2018

IRRIGATION PLAN

PREPARED BY:

BAIN MEDINA BAIN, INC.
ENGINEERS & SURVEYORS

 500 Antonio, Texas 78216
 210/494-7552 / T/Fax: 494-9090

**BENDER
WELLS
CLARK**

DESIGN

BENDER WELLS & CLARK CONSULTING
 800 University, Texas 75758
 714/266-1241 / 714/267-8840

THIS PLAN IS THE PROPERTY OF BAIN MEDINA BAIN, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. IT IS NOT TO BE REPRODUCED IN ANY MANNER OR FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF BAIN MEDINA BAIN, INC. ANY REUSE OR MODIFICATION OF THIS PLAN WITHOUT THE WRITTEN CONSENT OF BAIN MEDINA BAIN, INC. IS PROHIBITED. BAIN MEDINA BAIN, INC. ACCEPTS NO LIABILITY FOR ANY DAMAGE OR LOSS OF ANY KIND, INCLUDING BUT NOT LIMITED TO, DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, ARISING OUT OF OR IN CONNECTION WITH THE USE OF THIS PLAN.

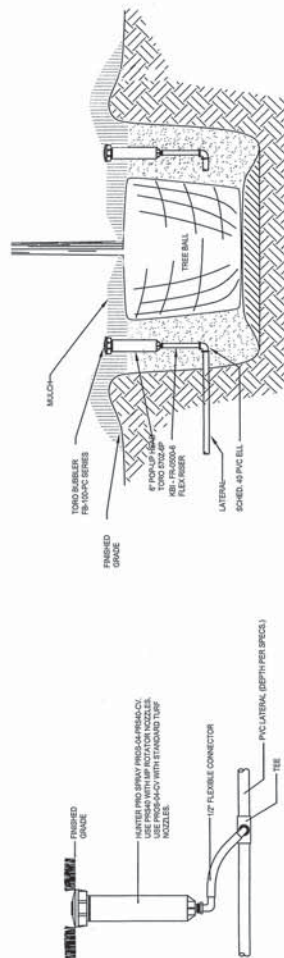
WWW.BAINMEDINABAIN.COM

GARZA
REGISTERED PROFESSIONAL ENGINEER
 P.E. No. 16254
 P.E. No. 16254
 1400 N. Loop West
 Suite 1000
 Houston, Texas 77001
 www.garza-engineers.com

THIS PLAN IS THE PROPERTY OF GARZA ENGINEERS, P.C. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. IT IS NOT TO BE REPRODUCED IN ANY MANNER OR FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF GARZA ENGINEERS, P.C. ANY REUSE OR MODIFICATION OF THIS PLAN WITHOUT THE WRITTEN CONSENT OF GARZA ENGINEERS, P.C. IS PROHIBITED. GARZA ENGINEERS, P.C. ACCEPTS NO LIABILITY FOR ANY DAMAGE OR LOSS OF ANY KIND, INCLUDING BUT NOT LIMITED TO, DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, ARISING OUT OF OR IN CONNECTION WITH THE USE OF THIS PLAN.



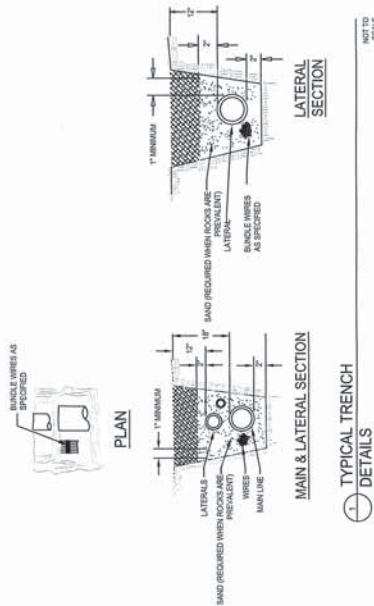
1 TREE BUBBLER PLAN



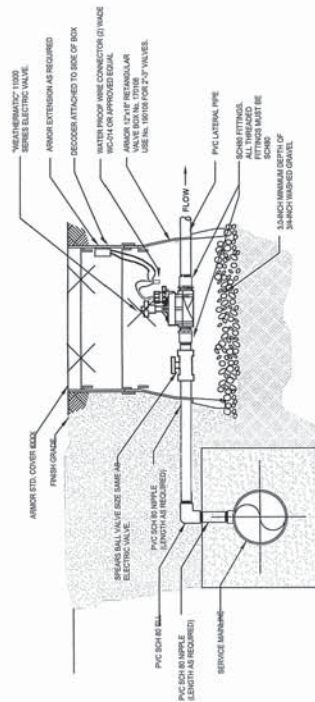
③ 4" / 6" POP-UP SPRINKLER




BUBBLERS AT TREE - SECTION



1 TYPICAL TRENCH DETAILS



SECTION

1	4/29/13	USE DISPOSITION CODEBOOK	DESIGNED BY:	50
2	4/29/13	USE DISPOSITION CODEBOOK	DRAWN BY:	50
3	4/29/13	USE DISPOSITION CODEBOOK	APPROVED BY:	50
4		DESCRIPTION	DATE:	50
5	No.	DATE	<p>PREPARED BY:</p> <p>BAIN MEDINA BAIN, INC.</p> <p>ENGINEERS & SURVEYORS</p> <p>5000 WEST 10TH AVE., SUITE 200</p> <p>IRVING, TEXAS 75039</p> <p>817/494-7523 / FAX: 817/494-7524</p>	
6			 <p>IR-2</p> <p>SKETCH</p> <p>1-C-1418</p>	



**BENDER
WELLS
CLARK
DESIGN**



GARZA
CONSULTING
DESIGN
PLANNING & COST ANALYSIS
P.O. BOX 98974
SAN ANTONIO, TX 78289
210.483.7891
WWW.GARZA-CONSULTING.COM

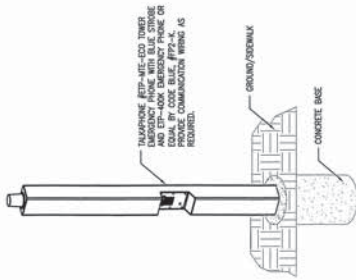


5-24-2018

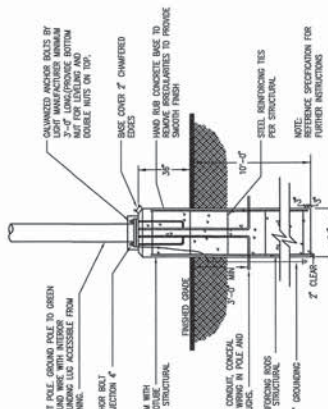
THIS DRAWING IS THE PROPERTY OF BAN MEDINA BANK, INC. AND SHALL NOT BE USED FOR ANY PURPOSE WITHOUT THE WRITTEN CONSENT OF AN AUTHORIZED AGENT OF BAN MEDINA BANK, INC. BAN MEDINA BANK, INC. ACCEPTS NO RESPONSIBILITY FOR THE USE OF THIS DRAWING FOR ANY PURPOSE AFTER SIX MONTHS FROM THE DATE INDICATED ON THIS DRAWING. ALL RIGHTS RESERVED. COPYRIGHT 2013 BAN MEDINA BANK, INC.



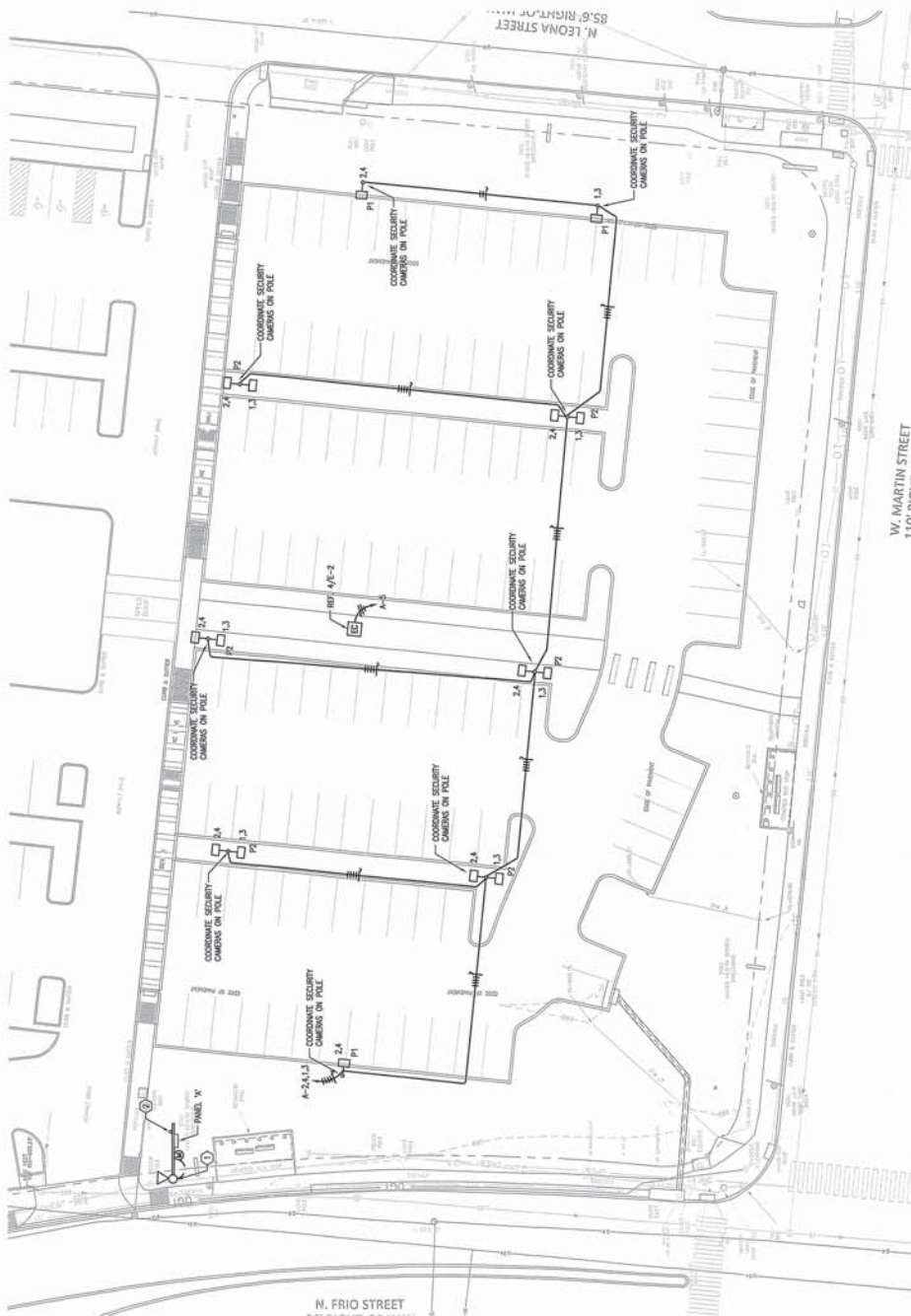
TEXAS REGISTERED
ENGINEERING FIRM #10487
10000 WEST 12TH STREET
SUITE 1120
DALLAS, TEXAS 75243
WWW.RGMENGINEERING.COM
TEL: 214.399.4825
FAX: 214.399.4825
MODIFICATIONS AND REVISIONS:
REVISION NO. DATE
01 05/03/2016



4 EMERGENCY CALL CENTER POLE [C]
NOT TO SCALE

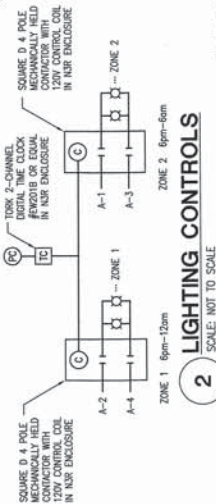


3 TYPICAL POLE BASE
NOT TO SCALE



1 SOUTH VISITOR PARKING SITE PLAN
SCALE: 1/20"=1'-0"

- POWER KEYED NOTES:
- 1. PROVIDED SEE POLE LOCATION, PANEL LOCATION PER UTILITY COMPANY REPRESENTATIVE.
 - 2. SERVICE EQUIPMENT BOX, REF. ONE-LINE DIAGRAM ON SHEET E-1.
 - 3. ROUTE TRAIL 2-CIRCUIT PHOTOCELL/TIMER FOR DUAL LEVEL LIGHTING.



2 LIGHTING CONTROLS
SCALE: NOT TO SCALE

NO.	DATE	DESCRIPTION
DESIGNED BY:		ROBERT B. GREEN
DRAWN BY:		DOWNTOWN CAMPUS
APPROVED BY:		CLINIC PERMIT SOUTH
CHECKED BY:		PARKING PLAN
DATE:		
PER NO.:		
SHEET:		

PREPARED BY: BAIN MEDINA BAIN, INC.
20702 San Pedro Avenue
Suite 100
Dallas, Texas 75210
TEL: 214.484-1222 / FAX: 214.484-1222
TWP: P-1115 / TWP: 10000000

THIS DRAWING IS THE PROPERTY OF BAIN MEDINA BAIN, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF BAIN MEDINA BAIN, INC.



This is a detailed plat map of a residential subdivision. The map shows a grid of lots, with streets labeled 'N. FRIO STREET' at the top and 'N. LEONA STREET' at the bottom. A central street is labeled 'W. MARTIN STREET'. The map includes lot numbers, dimensions, and various annotations such as '1/2 AC. TRACT', '1/4 AC. TRACT', and '1/8 AC. TRACT'. The map is oriented with North at the top.

 NORTH

NO.	DATE	DESCRIPTION	FORWARDED BY:	DATE
		ROBERT B. GREEN DOWNTOWN CAMPUS SOUTH VISITOR PARKING PLAN	APPROVED BY:	DATE
			SATEL:	MAY 2014
			FOR MAIL:	C-1113
			SHEET	E-5

THIS DRAWING IS THE PROPERTY OF BAIN MEDINA BANK, INC. AND SHALL NOT BE USED FOR ANY PURPOSE WITHOUT THE WRITTEN CONSENT OF AN AUTHORIZED AGENT OF BAIN MEDINA BANK, INC. BAIN MEDINA BANK, INC. ACCEPTS NO RESPONSIBILITY FOR THE USE OF THIS DRAWING FOR ANY PURPOSE AFTER SIX MONTHS FROM THE DATE INDICATED ON THE DRAWING. ALL RIGHTS RESERVED. COPYRIGHT © 2015 BAIN MEDINA BANK, INC.



FREE	MANHOLE STOP
SIGN	CLAY OUT
LIGHT POLE	GUANO POST
FIRE HYDRANT	WATER METER
SEWER MANHOLE	COLUMN
IRRIGATION CONTROL VALVE	MANHOLE TELEPHONE
WATER VALVE	TELEPHONE FEEDER
GAS VALVE	SHRUB

- 1 EXISTING FENCE OPENING.
- 2 EXISTING CAR STOP (TYPICAL).
- 3 EXISTING 6' CHAINLINK FENCE.

THE SITE SURVEY IS A PARTIAL AREA OF THE ROBERT B. GREEN DOWNTOWN CAMPUS NORTH EMPLOYEE PARKING. THE CONTROL DEPICTED HEREON IS AN EXTENSION OF THAT CONTROL ESTABLISHED BY BAIN MEDINA BAIN INC. FOR THIS AREA SURVEY. THIS AREA SURVEY DEPICTS SURFACE IMPROVEMENTS, THE LOCATION OF EXISTING UTILITIES, AND THE LOCATION OF ANY AREAS WHERE THE USER SHALL NOTIFY ALL LOCAL UTILITY COMPANIES 48 HOURS PRIOR TO ANY EXCAVATION IN THIS AREA.



THIS DRAWING IS THE PROPERTY OF BAN MEDINA BANK, INC. AND IS NOT TO BE USED FOR ANY PURPOSE WITHOUT THE WRITTEN CONSENT OF AN AUTHORIZED AGENT OF BAN MEDINA BANK. BAN MEDINA BANK, INC. ACCEPTS NO RESPONSIBILITY FOR THE USE OF THIS DRAWING FOR ANY PURPOSE AFTER 30 MONTHS FROM THE DATE INDICATED ON THIS DRAWING. ALL RIGHTS RESERVED. COPYRIGHT 2018 BAN MEDINA BANK, INC. ©

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING:

- [illegible]

1. INSTALL NEW TEMPORARY FENCING TO THE LIMITS SHOWN.
2. A LOCATION EXISTING FENCING AND CONCRETE CURB.
REMOVE DESTROYED BY THE OWNER.
3. CONTRACTOR SHALL REPAIR PAVEMENT AT FENCE POST LOCATIONS. SEPARATE MATERIAL PER CIVIL DETAIL SHEET.
4. CONTRACTOR SHALL CLEAR GRASS WITHIN THE TEMPORARY FENCED AREA IN ACCORDANCE WITH CDD ITEM 407.
5. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL UTILITIES WITHIN CDDA ITEM 407, SEE CIVIL DETAIL.
6. USE STAY-IN-PLACE FORMWORK FOR ALL CONCRETE DETAILS.
7. RE-STRENGTH PARKING AREA PART STEPS SHALL CONFORM TO PROJECT SPECIFICATIONS.
8. INSTALL SANITIZED CAR STEPS, PROVIDE ADDITIONAL IF REQUIRED.
9. REMOVE TEMPORARY FENCING AND PERFORM GENERAL CLEAN UP.

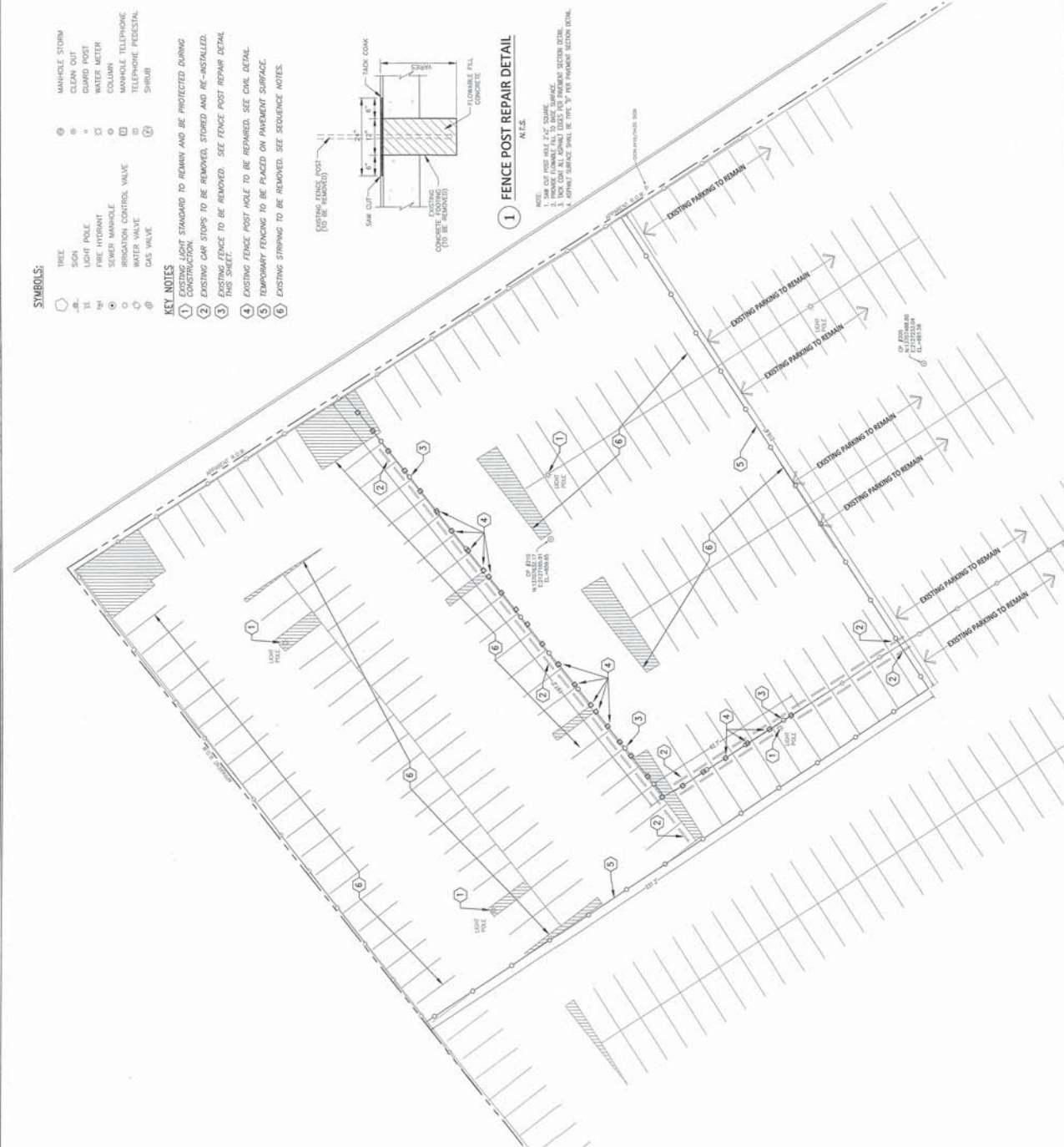
DEMOLITION PLAN
SCALE: 1" = 20'-0"



NO.	DATE	EXCEPTION
		<p>ROBERT B. GREEN DOWNTOWN CAMPUS NORTH EMPLOYEE PARKING DEMOLITION PLAN</p>
<p>RECEIVED BY: REM DRAWN BY: REM APPROVED BY: CE DATE: _____ JAN 2006 JOB NO.: C-1410 SHEETS: 1 OF 1 C-15</p>		

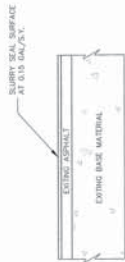
BAIN MEDINA BAIN, INC.
ENGINEERS & SURVEYORS
7073 San Pedro Avenue
San Antonio, Texas 78216
210/494-7223
TBO: F-1712 / TBPLS: 10020900

This message is the property of Bank Mediana Bank, Inc. and shall not be used for any purpose without the written consent of an authorized agent of Bank Mediana Bank, Inc. Bank Mediana Bank, Inc. accepts no responsibility for the use of this message for any purpose after 24 hours from the date indicated on this message. All rights reserved. Copyright 2010 Bank Mediana Bank, Inc.



- SYMBOLS:**
- ① TREE
 - ② SOON
 - ③ LIGHT POLE
 - ④ FIRE HYDRANT
 - ⑤ SENIOR MANHOLE
 - ⑥ IRRIGATION CONTROL VALVE
 - ⑦ WATER VALVE
 - ⑧ GAS VALVE
 - ⑨ MANHOLE STORM
 - ⑩ CLEAN OUT
 - ⑪ GUARD POST
 - ⑫ WATER METER
 - ⑬ COLUMN
 - ⑭ MANHOLE TELEPHONE
 - ⑮ TELEPHONE PEDESTAL
 - ⑯ SHRUB

LEGEND



1 SLURRY SEAL DETAIL
N.T.S.

NOTE:
1. SLURRY SEAL SHALL CONFORM TO THE PROVISIONS OF COSA ITEM NO. 407.
2. CONTRACTOR SHALL CRACK SEAL PRIOR TO SLURRY SEAL CRACK SEALANT SHALL BE A 50-50 MIXED POLYMER CEMENT SEALANT ON APPROVED EQUAL.

GENERAL SEQUENCE OF WORK NOTES:

1. INSTALL NEW TEMPORARY FENCING TO THE LIMITS SHOWN.
2. REMOVE EXISTING FENCING AND CONCRETE CAR STOPS. SALVAGEABLE MATERIAL SHALL BE STORED ON SITE AT A LOCATION DESIGNATED BY THE OWNER.
3. NEW EXISTING FENCING SHALL BE INSTALLED WITHIN THE FENCED AREA IN ACCORDANCE WITH COSA ITEM 407.
4. CONTRACTOR SHALL CRACK SEAL WITHIN THE FENCED AREA IN ACCORDANCE WITH COSA ITEM 407.
5. FENCED AREA SHALL BE SEAL COATED IN ACCORDANCE WITH COSA ITEM 407. SEE CHAIN LINK DETAIL.
6. REMOVE EXISTING CAR STOPS. PROVIDE ADDITIONAL IF REQUIRED.
7. RE-STRIPE PARKING AREA. PAINT STRIPE SHALL CONFORM TO PROJECT SPECIFICATIONS.
8. INSTALL SALVAGED CAR STOPS. PROVIDE ADDITIONAL IF REQUIRED.
9. REMOVE TEMPORARY FENCING AND PERFORM GENERAL CLEAN UP.

KEY NOTES

1. EXISTING LIGHT STANDARD TO REMAIN AND BE PROTECTED DURING CONSTRUCTION.
2. RE-INSTALLED CAR STOPS SET 3.0' FROM FENCE. SEE CHAIN LINK DETAIL.
3. NEW RELOCATED FENCE. SEE CHAIN LINK FENCE DETAILS.
4. PROVIDE 5.0' FENCE OPENING NO DATE REQUIRED.
5. PARKING AREA TO BE POWER BROOMED, CRACK SEALED AND SLURRY SEALED. SEE DETAIL 1 THIS SHEET.
6. TYPICAL 4" STRIPE. SEE SPECIFICATIONS AND CHAIN DETAILS.



STRIPING PLAN
SCALE: 1" = 20'-0"



ROBERT B. GREEN
DOWNTOWN CAMPUS
NORTH EMPLOYEE PARKING
STRIPING PLAN

PREPARED BY:
BAIN MEDINA BAIN, INC.

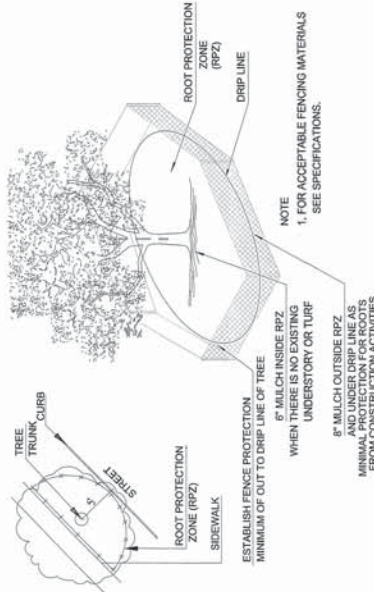
BAIN MEDINA BAIN, INC.
ENGINEERS & SURVEYORS
210 S. F STREET, SUITE 200
SAN ANTONIO, TEXAS 78214
TEL: 214-594-7222 / FAX: 214-594-7223
E-MAIL: INFO@BAINMEDINA.COM

DATE: JUNE 2016
JOB NO.: C-1418
SHEET: C-16

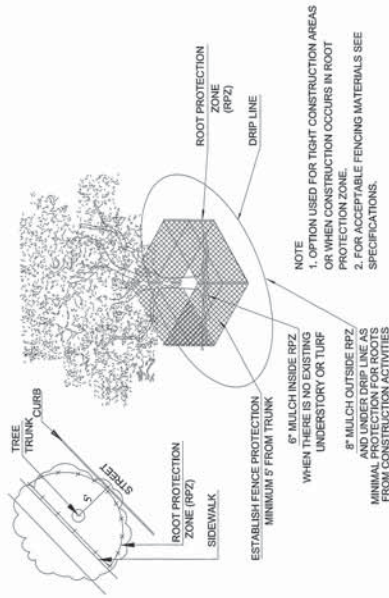
PROJECT: 100500000

TREE PROTECTION & PRESERVATION NOTES

1. ALL TREES SHALL REMAIN UNLESS NOTED ON THE CITY APPROVED PLANS.
2. NO DISTURBANCE SHALL OCCUR IN THE ROOT PROTECTION ZONE AREA.
3. NO CONSTRUCTION SHALL BEGIN IN AREAS WHERE TREE PRESERVATION AND TREATMENT MEASURES HAVE NOT BEEN COMPLETED AND APPROVED.
4. TREE PROTECTION FENCING SHALL BE REQUIRED. TREE PROTECTION FENCING SHALL BE INSTALLED, MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING SITE CONSTRUCTION.

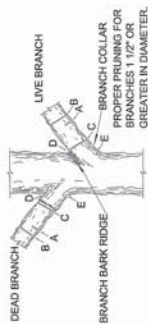


1 TREE PROTECTION FENCING
NTS

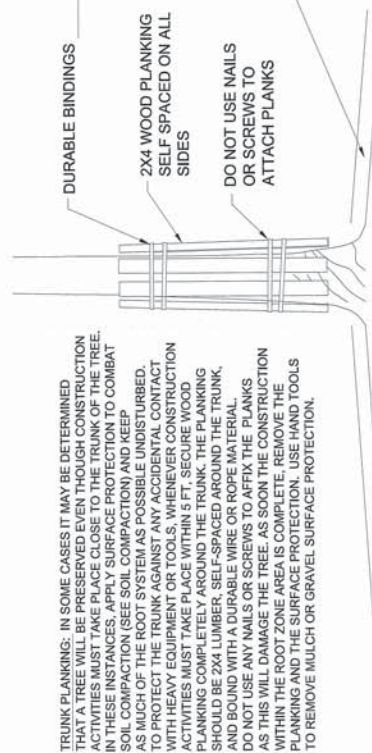


2 TREE PRESERVATION FENCING LEVEL II A
NTS

5. THE CONTRACTOR SHALL AVOID CUTTING ROOTS LARGER THAN ONE-INCH IN DIAMETER WHEN EXCAVATING NEAR EXISTING TREES. EXCAVATIONS IN THE VICINITY OF TREES SHALL PROCEED WITH CAUTION. THE CONTRACTOR SHALL CONTACT THE CITY INSPECTOR FOR GUIDANCE.
6. EXPOSED ROOTS SHALL BE COVERED AT THE END OF THE WORK DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH OR WET BURLAP.
7. NO EQUIPMENT, VEHICLES OR MATERIALS SHALL BE OPERATED OR STORED WITHIN THE ROOT PROTECTION ZONE OF ANY TREE NEAR THE PROJECT. THE ROOT PROTECTION ZONE FOR ALL PROTECTED TREES SHALL BE AN 8 FOOT DIAMETER (MIN.) ROOT PROTECTION ZONE.



3 BRANCH PRUNING
NTS



4 TRUNK PLANKING & SOIL COMPACTION PREVENTION
NTS

TRUNK PLANKING: IN SOME CASES IT MAY BE DETERMINED THAT A TREE WILL BE PRESERVED EVEN THOUGH CONSTRUCTION ACTIVITIES MUST TAKE PLACE CLOSE TO THE TRUNK OF THE TREE. IN THESE CASES, THE CONTRACTOR SHALL BE REQUIRED TO COMBAT SOIL COMPACTION (SEE SOIL COMPACTION) AND KEEP AS MUCH OF THE ROOT SYSTEM AS POSSIBLE UNDISTURBED. TO PROTECT THE TRUNK AGAINST ANY ACCIDENTAL CONTACT WITH HEAVY EQUIPMENT OR TOOLS, WHENEVER CONSTRUCTION ACTIVITIES MUST TAKE PLACE WITHIN 5 FT. SECURE WOOD PLANKING COMPLETELY AROUND THE TRUNK. THE PLANKING SHOULD BE 2X4 LUMBER, SELF-SPACED AROUND THE TRUNK, AND BOUND WITH A DURABLE WIRE OR ROPE MATERIAL. DO NOT USE ANY NAILS OR SCREWS TO AFFIX THE PLANKS AS THIS WILL DAMAGE THE TREE. AS SOON AS THE CONSTRUCTION WITHIN THE ROOT ZONE AREA IS COMPLETE, REMOVE THE PLANKING AND THE SURFACE PROTECTION. USE HAND TOOLS TO REMOVE MULCH OR GRAVEL SURFACE PROTECTION.

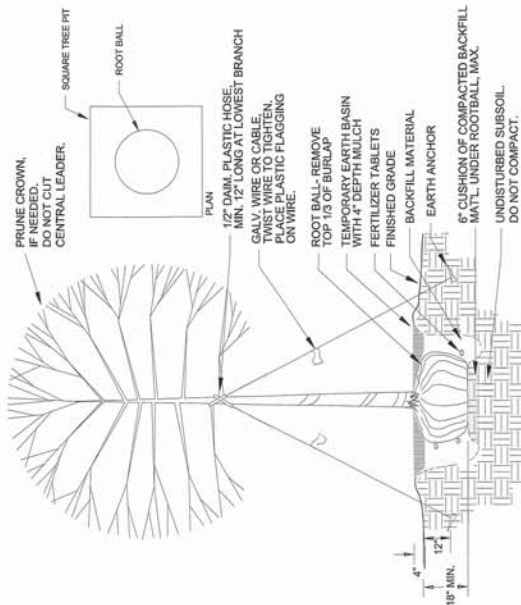
SOIL COMPACTION PREVENTION: IF WORK MUST OCCUR WITHIN THE PROTECTED ROOT ZONE, COMPACTED SOIL CAN KEEP ROOTS FROM ACCESSING WATER AND OXYGEN, CAUSING TREE DAMAGE DURING CONSTRUCTION. THE AREA OF THE PROTECTED ROOT ZONE EXPOSED TO PEDESTRIAN OR VEHICULAR TRAFFIC SHOULD BE COVERED WITH 4 INCHES OF SEPTIC GRAVEL AND 6 INCHES OF SHREDDED HARDWOOD BARK OVER THE GRAVEL IN THE AFFECTED AREA. DO NOT PLACE MULCH OR GRAVEL AGAINST THE TRUNK OF THE TREE. DO NOT USE SOIL OR COMPOST BECAUSE THESE WILL ALSO COMPACT. PINE BARK CHIPS SHOULD NOT BE USED BECAUSE THEY PROVIDE TOO MANY LARGE Voids WHICH ALLOW TOO MUCH AIR AND ARE EASILY LOGGED. REMOVE THE PROTECTIVE COVERING AS SOON AS ACCESS IS NO LONGER REQUIRED. STOCKPILE OR DISPOSE OF THE MATERIALS OUTSIDE OF THE PROTECTED ROOT ZONE.

THIS DRAWING IS THE PROPERTY OF BENDER WELLS CLARK DESIGN. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF BENDER WELLS CLARK DESIGN.



LAWRENCE G. GIAM
STATE OF CALIFORNIA
LICENSED PROFESSIONAL ENGINEER
MECHANICAL
50714

NO.	DATE	DESCRIPTION
1	4/23/16	ISSUE CONSTRUCTION DOCUMENTS
DESIGNED BY: ROBERT B. GREEN DOWNTOWN CAMPUS TREE PRESERVATION DETAILS		
CHECKED BY: LCC & BNC		
DRAWN BY: BNC		
APPROVED BY: LCC & BNC		
DATE: MAY 2016		
PROJECT NO.: C-1410		
SHEET: 210/414-2223		
PREPARED BY: BENDER WELLS CLARK DESIGN, INC. 2020 San Pedro Avenue San Antonio, Texas 78216 210/414-2223		
SHEET TP-3		



GENERAL NOTES: PLANTING

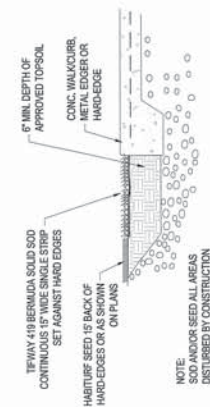
- A. ALL PLANT QUANTITIES SHOWN ON PLANS ARE TO BE VERIFIED BY THE LANDSCAPE CONTRACTOR. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL LABELED PLANT MATERIAL. PLANT QUANTITIES ON THE PLAN TAKE PRECEDENCE OVER QUANTITIES IN THE PLANT SCHEDULE. THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.
- B. LANDSCAPE CONTRACTOR SHALL BE THOROUGHLY FAMILIAR WITH THE PLANS AND SPECIFICATIONS AND SHALL BE RESPONSIBLE FOR THE REQUIREMENTS DICTATED THEREIN.
- C. LANDSCAPE CONTRACTOR AND SUBCONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE LOCATION OF ALL UNDERGROUND UTILITIES AND EASEMENTS PRIOR TO STARTING WORK. THE CONTRACTOR SHALL NOTE ANY DISCREPANCIES AND CONTACT THE PROJECT ARCHITECT AND LANDSCAPE ARCHITECT FOR FURTHER DIRECTION.
- D. ALL PLANTS MUST COMPLY WITH THE CURRENT AMERICAN STANDARDS FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
- E. NO PLANT SHALL BE PUT IN THE GROUND BEFORE ROUGH GRADING HAS BEEN COMPLETED AND APPROVED BY THE PROJECT LANDSCAPE ARCHITECT OR EQUAL.
- F. ALL PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANTS' ORIGINAL GRADE IN THE CONTAINER OR BEFORE DIGGING.
- G. ALL PLANTS SHALL BE CONTAINER GROWN, UNLESS OTHERWISE NOTED. NO CONTAINER GROWN STOCK WILL BE ACCEPTED IF IT IS ROOT BOUND. ALL ROOT WRAPPING MATERIALS, CONTAINERS, ETC. MADE OF SYNTHETIC MATERIALS OR PLASTICS SHALL BE REMOVED ENTIRELY AT THE TIME OF PLANTING.
- H. ALL CONTAINER GROWN STOCK SHALL BE REMOVED AND THE BALL SHALL BE CUT THROUGH THE SURFACE IN TWO VERTICAL LOCATIONS.
- I. PRIOR TO PLANTING, THE LOCATION OF ALL TREES SHALL BE STAKED IN THE FIELD FOR APPROVAL BY THE LANDSCAPE ARCHITECT, OR HIS REPRESENTATIVE. THE LOCATIONS OF SHRUB MASSES SHALL BE IDENTIFIED MARKED IN THE FIELD FOR APPROVAL.
- J. ALL PLANT MATERIALS SHALL BE SELECTED AT THE NURSERIES BY THE LANDSCAPE ARCHITECT, OR HIS REPRESENTATIVE, AND SHALL BE SUBJECT TO INSPECTION AND APPROVAL UPON DELIVERY AT THE PROJECT SITE. SUCH APPROVAL DOES NOT IMPAIR THE RIGHT OF INSPECTION AND REJECTION DURING THE PROCESS OF THE WORK.
- K. ALL PLANTS SHALL BE INSTALLED PER DETAILS AND THE CONTRACT SPECIFICATIONS.
- L. ALL PLANTS ARE TO BE WATERED THOROUGHLY TWICE DURING THE FIRST 24 HOURS AFTER PLANTING.
- M. ALL FINAL GRADING, BAKING AND SHAPING OF THE TOPSOIL, AND BACKFILL OF CURBS AND EDGING SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO THE APPLICATION OF HYDROSEED OR THE INSTALLATION OF PLANTING.
- N. SLOPES ON BERMS SHALL BE HELD TO 5 : 1 OR LESS, UNLESS OTHERWISE NOTED ON THE CIVIL PLANS. EXCESSIVE SLOPES ON BERMS WHICH MAY RESULT IN EROSION OR MAINTENANCE PROBLEMS SHALL BE REVIEWED BY THE LANDSCAPE ARCHITECT. BERMS SHALL BE INSTALLED IN 12" LIFTS AND COMPACTED TO 98% OF MODIFIED PROCTOR DENSITY AT OPTIMUM MOISTURE CONTENT.
- O. THE LANDSCAPE CONTRACTOR SHALL PROVIDE APPROVED TOPSOIL, BACKFILL, MATERIAL, MULCH, SOIL CONDITIONERS AND OTHER AMENDMENTS AS PER THE CONTRACT SPECIFICATIONS.

NOTES:

1. PIT SIZE: WIDTH TO BE A MINIMUM OF TWICE AS WIDE AS ROOT BALL, SQUARED CORNERS. TYPICAL DEPTH OF PIT TO BE EQUAL TO ROOTBALL DEPTH, PLUS 6". TYP.
 2. PLANTING: TYPICAL DEPTH OF ROOT BALL ONE INCH ABOVE FINISHED GRADE.
 3. BACKFILL MATERIAL: 6 PARTS APPROVED TOPSOIL, 2 PARTS COMPOSTED WOOD MULCH & 1 PART SHARP RED SAND. SOAK TO REDUCE SETTLING.
 4. PLANTING TABLETS: 21 GRAM AGRIFORM TABLETS (20-10-5).
 5. USE 3" GAL. SIZE: 6 FOR 15 GAL. SIZE, 12 FOR 24" BOX SIZE.
 6. LEAKY BASIN: 12" DIAMETER LARGER THAN ROOT BALL.
 7. ROOT STIMULATOR: 12" DIAMETER LARGER THAN ROOT BALL. (SEE SPEC. FOR ROOT STIMULATOR GREENLINE ROOT STIMULATOR OR EQUIVALENT. APPLY AS PER MANUFACTURER'S INSTRUCTIONS (3 TIMES @ 2 WEEK INTERVALS).
 8. STAKES: STRAIGHT 2X2 SUPPLY TREATED WITH LP 22, 8' LENGTH, TAPEER POINT.
 9. STAKING HEIGHT: SUFFICIENT TO SUPPORT TRUNK IN VERTICAL, UNBENDING POSITION WHEN SECURED WITH CABLE TIES, 2" TO 3" ABOVE GRADE, TYPICAL.
 10. TYP. GUYING: TREES NORMALLY DO NOT NEED TO BE STAKED OR GUYED. DO SO ONLY WITH THE APPROVAL OF THE LANDSCAPE ARCHITECT. IF REQUIRED, STAKING DONE OUTSIDE OF THE FOOTBALL. PLACE PLASTIC FLAGGING OR OTHER VISUAL MARKERS ON EACH GUY WIRE.
- TEST ALL, THREE PITS FOR DRAINAGE PER SPECIFICATIONS.

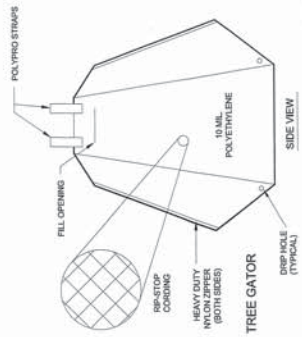
SECTION: TREE PLANTING

NTS



SECTION: TURF - SOLID SOD & SEED

NTS



TEMP. TREE IRRIGATION BAG

NTS

WATERING NOTE:
FILL TWICE A WEEK FOR THE FIRST YEAR.
ONCE A WEEK FOR THE NEXT TWO YEARS.
IF HOSE LENGTH IS TO GREAT TO FILL.

NOTES:

1. 10 MIL. POLYETHYLENE - UV TREATED AND REINFORCED
2. FILL OPENING ACCEPTS HOSES UP TO 3" IN DIAMETER
3. INSTALL TREEGATOR WITH FILL OPENING ON DOWNHILL SIDE OF TREE


DRIP TIMES:

2 HOLES	6 - 10 HOURS
3 HOLES	2 - 6 HOURS
4 HOLES	1 - 2 HOURS



LEONARDO C. CLARKE
CONSTRUCTION MANAGEMENT
1211

No.	DATE	DESCRIPTION	DESIGNED BY	CHECKED BY	DATE
1	4/23/16	USE CONSTRUCTION DOCUMENTS	DAVID B. BAIN	LCG & BM	MAY 2016
			DAVID B. BAIN	BY	C-119
			APPROVED BY	LCG & BM	1P-5


RAIN MEDINA BAIN, INC.
 ENGINEERS & SURVEYORS
 2070 San Pedro Avenue
 Suite 200
 San Antonio, Texas 78216
 210.494-7223

00000 + 00000 = 00000

PREPARED BY: _____

210/

TAPR

LED AREA LIGHTS - (XGBM)



DOE LIGHTING FACTS

Department of Energy has verified representative product test data and results in accordance with its Lighting Facts Program. Visit www.lightingfacts.com for specific catalog strings.

LIGHT OUTPUT - XGBM						
		Lumens (Nominal)				Watts (Nominal)
		Type 3	Type 5	Type FT	Type FTA	
Cool White	LW	14080	13840	15020	16560	140
	SS	20180	18040	20700	23030	187
	HO	26750	25460	29070	31810	300
Neutral White	LW	11450	11290	12220	13470	136
	SS	16390	15170	17230	18750	188
	HO	22240	20550	23510	25410	288

LED Chips are frequently updated therefore values may increase.

US patent D574994 & 7,828,456 and MX patent 29631 and US & Int'l. patents pending

SMARTTEC™ THERMAL CONTROL - LSI drivers feature integral sensor which reduces drive current when ambient temperatures exceed rated temperature.

OCCUPANCY SENSING (IMS) - Optional integral passive infrared motion sensor activates switching of luminaire light levels. High level light is activated and increased to full bright in 1-2 seconds upon detection of motion. Low light level (30% maximum drive current) is activated when target zone is absent of motion activity for ~2 minutes and ramps down (10-15 seconds) to low level to allow eyes time to adjust. Sensor is located on the front of optical assembly and rotates with the optic. Sensor optic has a detection cone of approximately 45°. Examples of detection - occurs 30' out from a 30' mounting height pole; occurs 20' out from a 20' mounting height pole.

ENERGY SAVING CONTROL OPTIONS - DIM - 0-10 volt dimming enabled with controls by others. BLS - Bi-level switching responds to external line voltage signal from separate 120-277V controller or sensor (by others), with low light level decreased to 30% maximum drive current.

EXPECTED LIFE - Minimum 60,000 hours to 100,000 hours depending upon the ambient temperature of the installation location. See LSI web site for specific guidance.

LEDS - Select high-brightness LEDs in Cool White (5000K) or Neutral White (4000K) color temperature, 70 CRI.

DISTRIBUTION/PERFORMANCE - Types 3, 5, FT and FTA available - field rotatable reflectors.

HOUSING - Square, die-formed aluminum. Fully enclosed weather-tight housing contains factory prewired drivers and field connections.

TOP-ACCESS COVER - Gasketed, tethered top-access cover provides ease of installation and allows for easy driver access. Four captive stainless-steel fasteners secure the top-access cover to the housing.

OPTICAL UNIT - Clear tempered optical grade flat glass lens sealed to aluminum housing creates an IP67 rated, sealed optical unit (includes pressure stabilizing breather). Optical unit can be easily field rotated in 90° increments. Directional arrow on optics allows alignment without the unit being energized.

MOUNTING - 2-1/2" x 5-3/8" x 12" extruded aluminum arm mounting bracket shipped standard. Use with 5" traditional drilling pattern. Round Pole Plate (RPP2) required for mounting to 3"-5" round poles. (See Accessory Ordering Information chart.)

ELECTRICAL - Two-stage surge protection (including separate surge protection built into electronic driver) meets IEEE C62.41.2-2002, Location Category C. Available with universal voltage power supply 120-277VAC (UE - 50/60Hz input), and 347-480VAC.

DRIVERS - Available in Low Watt (LW), Super Saver (SS) and High Output (HO) drive currents (Drive currents are factory programmed). Components are fully encased in potting material for moisture resistance. Driver complies with FCC 47 CFR part 15 RFI/EMI standard.

OPERATING TEMPERATURE - -40°C to +50°C (-40°F to +122°F).

FINISH - Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling.

DECAL STRIPING - LSI offers optional color-coordinated decals in 9 standard colors to accent the fixture. Decals are guaranteed for five years against peeling, cracking, or fading.

WARRANTY - LSI LED fixtures carry a limited 5-year warranty.

PHOTOMETRICS - Please visit our web site at www.lsi-industries.com for detailed photometric data.

SHIPPING WEIGHT (IN CARTON) - Fixture - 44.5 lbs (20 kg) Arm - 5 lbs. (2kg) arm

LISTING - UL listed to U.S. and Canadian safety standards. Suitable for wet locations. For a list of the specific products in this series that are DLC listed, please consult the LED Lighting section of our website or the Design Lights website at www.designlights.org.

This product, or selected versions of this product, meet the standards listed below. Please consult factory for your specific requirements.



Fixtures comply with ANSI C136.31-2010 American National Standard for Roadway Lighting Equipment - Luminaire Vibration 3G requirements.



Project Name _____ Fixture Type _____
Catalog # _____

10/21/15
© 2015
LSI INDUSTRIES INC.

LED AREA LIGHTS - (XGBM)

LUMINAIRE ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: **XGBM 5 LED HO CW UE WHT PCM**

Prefix	Distribution	Light Source	Drive Current	Color Temperature	Input Voltage	Finish	Optional Controls	Optional Sensor/Options
XGBM ¹ - LED Greenbriar	FT - Forward Throw FTA - Forward Throw Automotive 3 - Type III 5 - Type V	LED	LW - Low Watt SS - Super Saver HO - High Output	CW - Cool White (5000K) NW - Neutral White (4000K)	UE - Universal Voltage (120-277) 347-480	BLK - Black BRZ - Bronze GPT - Graphite MSV - Metallic Silver PLP - Platinum Plus SVG - Satin Verde Green WHT - White Optional Color Decals 45 - Light Gold 20 - Charcoal Metallic 55 - Black 94 - Blue Metallic 59 - Dark Green 51 - Dark Red 21 - Tomato Red 50 - White 700 - Aztec Silver Metallic	Wireless Control System ^{2,3} (blank) - None PCM - Platinum Control System PCMH - Host/Satellite Platinum Control System GCM - Gold Control System GCMH - Host/Satellite Gold Control System DIM - 0-10 volt dimming (required for satellite fixtures) Stand-Alone Control (blank) - None DIM - 0-10 volt dimming ⁴ (from external signal) BLS - Bi-level Switching ⁵ (from external signal - required 120-277V controls system voltage)	Sensor IMS - Integral Motion Sensor ⁶ PCI120 - 120V Button-Type Photocell PCI208 - 208V Button-Type Photocell PCI240 - 240V Button-Type Photocell PCI277 - 277V Button-Type Photocell PCI347 - 347V Button-Type Photocell Options 8BK - 8" Bracket (S and D180 only) TB - Terminal Block

LUMINAIRE EPA CHART ² - XGBM		
	8" Bracket	12" Bracket
Single	2.3	2.4
D180°	4.7	4.8
D90°		4.7
T90°	12" Bracket	7.2
TN120°	Required	7.3
Q90°		8.8

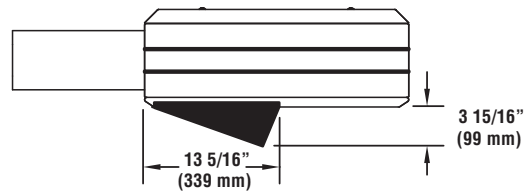
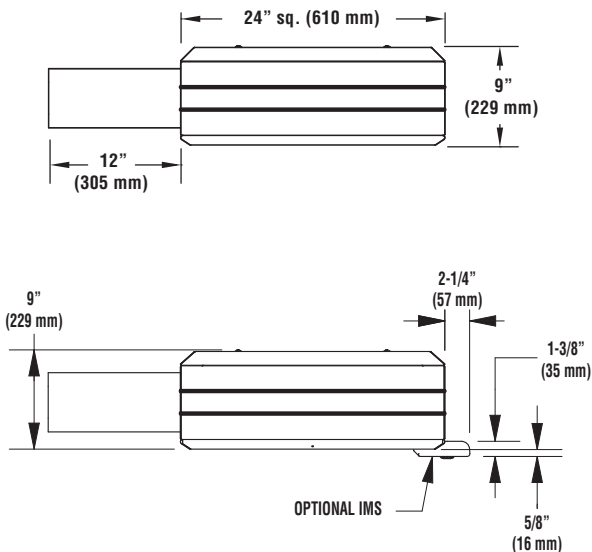
Note: House Side Shield adds to fixture EPA. Consult Factory.

ACCESSORY ORDERING INFORMATION ²			
(Accessories are field installed)			
Description	Order Number	Description	Order Number
XGBM-HSS House Side Shield (Black only)	482002 BLK ⁷	DFK208, 240 Double Fusing (208V, 240V)	DFK208,240 ⁸
RPP2 - Round Pole Plate	162914BLK	DFK480 Double Fusing (480V)	DFK480 ⁸
BKS-BO-WM-* - CLR - Wall Mount Plate	123111CLR	FK347 Single Fusing (347V)	FK347 ⁸
BAK-BO-RA-8-CLR - Radius Arm	169010CLR	PMOS120 - 120V Pole-Mount Occupancy Sensor	518030CLR ⁹
BKU-BO-S-19-CLR - Upsweep Bracket for round or square poles	144191CLR	PMOS208/240 - 208, 240V Pole-Mount Occupancy Sensor	534239CLR ⁹
FK120 Single Fusing (120V)	FK120 ⁸	PMOS277 - 277V Pole-Mount Occupancy Sensor	518029CLR ⁹
FK277 Single Fusing (277V)	FK277 ⁸	PMOS480 - 480V Pole-Mount Occupancy Sensor	534240CLR ⁹

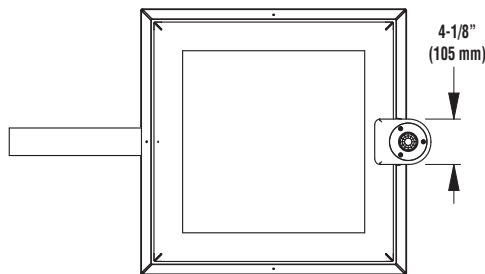
FOOTNOTES:

- 1- Use with 5" traditional drilling pattern.
- 2- For wireless controls information and accessories, see Controls section.
- 3- Requires a SiteManager and override switch. Not compatible with BLS or IMS option.
- 4- Not compatible with IMS or BLS option.
- 5- Not compatible with wireless controls system, DIM or IMS option.
- 6- Not compatible with wireless controls system, DIM or BLS option.
- 7- House Side Shields add to fixture EPA. Consult factory.
- 8- Fusing must be located in the hand hole of pole.
- 9- To be used with any of the PCM/GCM wireless controls systems in the fixture. Consult factory.

DIMENSIONS



House Side Shield (482002BLK)

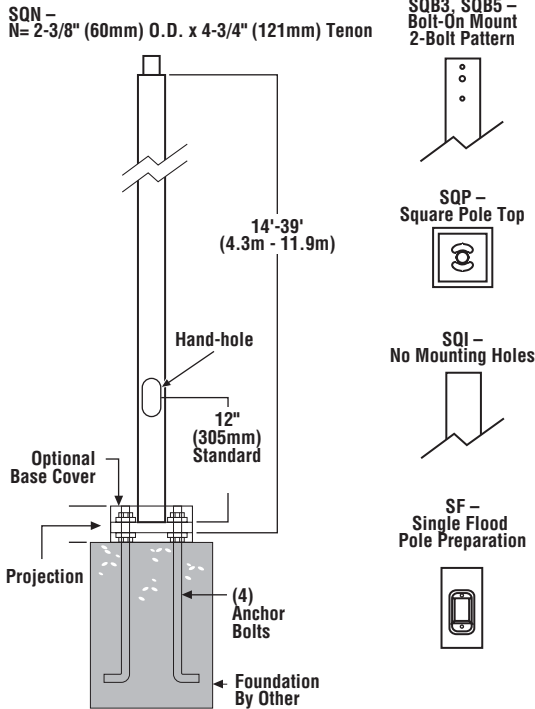


Project Name _____ Fixture Type _____
Catalog # _____

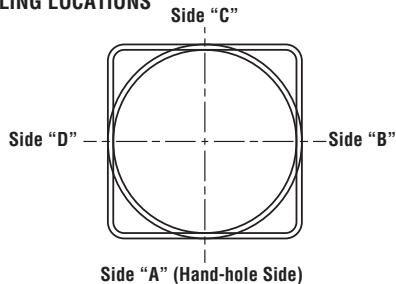
10/21/15
© 2015
LSI INDUSTRIES INC.

STEEL SQUARE POLES

DIMENSIONS



DRILLING LOCATIONS



Sides	A	B	C	D
Hand-hole	X			
Single	X			
D180°		X		X
D90°	X			X
T90°	X	X		X
TN120°*	X			
Q90°	X	X	X	X
Single FBO	X			
Double FBO		X		X

*Other two locations will be 120° to the left and right of Side A.

Note: Standard SF and DF pole preparations are located 3/4 of the height of the pole from the base, unless otherwise specified.

SHIPPING WEIGHTS - Steel Square Poles

4"(102mm) sq. 11 Ga. is approximately	7.50 lbs./ft.
4"(102mm) sq. 07 Ga. is approximately	10.00 lbs./ft.
5"(127mm) sq. 11 Ga. is approximately	9.00 lbs./ft.
5"(127mm) sq. 07 Ga. is approximately	12.50 lbs./ft.
6"(152mm) sq. 07 Ga. is approximately	15.40 lbs./ft.
Anchor Bolts (3/4" x 30") (19mm x 762mm)	15 lbs. (7kg)/set
Anchor Bolts (1" x 36") (25mm x 914mm)	30 lbs. (14kg)/set

ARRA
Funding Compliant



POLE SHAFT - Pole shaft is electro-welded ASTM-A500 Grade C steel tubing with a minimum yield strength of 50,000 psi. On Tenon Mount steel poles, tenon is 2-3/8" O.D. high-strength pipe. Tenon is 4-3/4" in length. Straight poles are 4", 5", and 6" square.

HAND-HOLE - Standard hand-hole location is 12" above pole base. Poles 22' and above have a 3" x 6" reinforced hand-hole. Shorter poles have a 2" x 4" non-reinforced hand-hole.

BASE - Pole base is ASTM-A36 hot-rolled steel plate with a minimum yield strength of 36,000 psi. Two-piece square base cover is optional.

ANCHOR BOLTS - Poles are furnished with anchor bolts featuring zinc-plated double nuts and washers. Galvanized anchor bolts are optional. Anchor bolts conform to ASTM F 1554-07a Grade 55 with a minimum yield strength of 55,000 psi.

GROUND LUG - Ground lug is standard.

DUPLEX RECEPTACLE - Weatherproof duplex receptacle is optional.

GROUND FAULT CIRCUIT INTERRUPTER - Ground fault circuit interrupter is optional.

FINISHES - Each pole is finished with DuraGrip®, LSI's baked-on polyester-powder finishing process which electrostatically applies and fuses a polyester powder to the pole. Provides an extremely smooth and uniform finish to withstand extreme weather changes without cracking or peeling, and features a five-year limited warranty. Optional DuraGrip® Plus features the added protection of a 3.0 to 5.0 mil thickness of polyester-powder finish plus an inner coating, as well as a seven-year limited warranty.

DETERMINING THE LUMINAIRE/POLE COMBINATION FOR YOUR APPLICATION:

- Select luminaire from luminaire ordering information
- Select bracket configuration if required
- Determine EPA value from luminaire/bracket EPA chart
- Select pole height
- Select MPH to match wind speed in the application area (See windspeed map).
- Confirm pole EPA equal to or exceeding value from note above
- Consult factory for special wind load requirements and banner brackets

POLE SELECTION CHART: 4"(102mm), 5"(127mm) and 6"(152mm) steel square poles

Height	EPA				Outside Dimensions	Material	Bolt Circle
	70 MPH	80 MPH	90 MPH	100 MPH			
14' (4.3m)	23.3	16.7	12.2	9.0	4" (102mm)	S11G	B
16' (4.9m)	18.6	13.1	9.3	6.5	4" (102mm)	S11G	B
16' (4.9m)	34.6	25.0	18.5	13.8	5" (127mm)	S11G	C
18' (5.5m)	14.4	9.7	6.5	4.2	4" (102mm)	S11G	B
18' (5.5m)	27.9	19.7	14.1	10.1	5" (127mm)	S11G	C
20' (6.1m)	11.0	7.0	4.2	2.2	4" (102mm)	S11G	B
20' (6.1m)	18.7	12.8	8.8	5.9	4" (102mm)	S07G	B
20' (6.1m)	22.5	15.4	10.5	7.0	5" (127mm)	S11G	C
20' (6.1m)	35.5	25.4	18.4	13.4	5" (127mm)	S07G	D
22' (6.7m)	10.4	6.3	3.4	1.4	4" (102mm)	S11G	B
22' (6.7m)	18.7	12.6	8.4	5.4	4" (102mm)	S07G	B
22' (6.7m)	20.8	13.8	8.9	5.5	5" (127mm)	S11G	C
22' (6.7m)	34.0	23.9	17.0	12.0	5" (127mm)	S07G	D
24' (7.3m)	7.7	4.0	1.5	—	4" (102mm)	S11G	B
24' (7.3m)	15.1	9.7	6.0	3.3	4" (102mm)	S07G	B
24' (7.3m)	16.7	10.5	6.2	3.1	5" (127mm)	S11G	C
24' (7.3m)	28.6	19.6	13.4	8.9	5" (127mm)	S07G	D
24' (7.3m)	46.2	32.6	23.2	16.6	6" (153mm)	S07G	J
26' (7.9m)	5.3	2.1	—	—	4" (102mm)	S11G	B
26' (7.9m)	12.0	7.2	3.9	1.5	4" (102mm)	S07G	B
26' (7.9m)	13.2	7.6	3.8	1.0	5" (127mm)	S11G	C
26' (7.9m)	24.0	15.8	10.3	6.3	5" (127mm)	S07G	D
26' (7.9m)	39.6	27.3	18.9	12.9	6" (152mm)	S07G	J
28' (8.5m)	19.9	12.5	7.5	3.9	5" (127mm)	S07G	D
28' (8.5m)	33.9	22.7	15.1	9.6	6" (152mm)	S07G	J
30' (9.1m)	16.3	9.6	5.0	1.7	5" (127mm)	S07G	D
30' (9.1m)	28.8	18.6	11.6	6.6	6" (152mm)	S07G	J
35' (10.7m)	18.3	10.0	4.3	—	6" (152mm)	S07G	J
39' (11.9m)	11.5	4.3	—	—	6" (152mm)	S07G	J

† EPA based on ANSI/ASCE 7-93. Refer to EPA information on next page. For applications in Canada and areas using code requirements other than ANSI/ASCE 7-93, consult factory. If luminaire weight exceeds 250 lbs. (113.4 kg), consult factory.

STEEL SQUARE POLES

POLE ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: **5SQB5 S07G 24 S PLP SF DGP**

Pole Series	Material	Height ²	Mounting Configuration	Pole Finish	Options
Bolt-on Arm Mount - See pole selection guide for patterns and fixture matches. 4SQB3 - 3" Reduced drilling pattern 5SQB3 - 3" Reduced drilling pattern 4SQB5 - 5" Traditional drilling pattern 5SQB5 - 5" Traditional drilling pattern 6SQB5 - 5" Traditional drilling pattern	S11G - 11 Ga. Steel S07G - 07 Ga. Steel	14' 16' 18' 20' 22' 24' 26' 28' 30' 35' 39'	S - Single/Parallel D180° - Double D90° - Double DN90° - Double T90° - Triple TN120° - Triple Q90° - Quad QN90° - Quad	BRZ - Bronze BLK - Black PLP - Platinum Plus WHT - White SVG - Satin Verde Green GPT - Graphite MSV - Metallic Silver	GA - Galvanized Anchor Bolts SF - Single Flood ³ DF - Double Flood ³ DGP - DuraGrip® Plus LAB - Less Anchor Bolts OSXX - Pole preparation for PMOS Occupancy Sensor ⁴
Pole Top Mount - Use with: • Greenbriar Pole Top • Hilton Pole Top 4SQP 5SQP 6SQP	<div>Consult Pole Selection Chart on opposite page</div>		PT - Pole Top Mount	<div>Standard SF and DF pole preparations are located 3/4 of the height of the pole from the base, unless otherwise specified.</div>	
Tenon Mount - See pole selection guide for tenon and fixture/bracket matches. 4SQN 5SQN 6SQN			N - Tenon Mount (Standard tenon size is 2-3/8" O.D.)		
No Mounting Holes or Pole Caps - Use with: • BKA 4ISF & BKA 5ISF • BKA X4ISF & BKA X5ISF			*		
Internal Slip-fitter¹ 4SQI 5SQI					

ACCESSORY ORDERING INFORMATION

(Accessories are field installed)

Description	Order Number	Order Number
4BC - 4" Square Base Cover	122559CLR	Vibration Damper - 4" Square Pole (bolt-on mount only) 172539
5BC - 5" Square Base Cover	122561CLR	Vibration Damper - 5" Square Pole (bolt-on mount only) 172538
6BC - 6" Square Base Cover	122563CLR	Vibration Damper - 6" Square Pole (bolt-on mount only) 178361
ER2 - Weatherproof Duplex Receptacle	122566CLR	PMOS120 - 120V Occupancy Sensor 518030CLR ⁵
GFI - Ground Fault Circuit Interrupter	122567CLR	PMOS208/240 - 208, 240V Occupancy Sensor C/F ⁵
MHP - Mounting Hole Plugs (3 plugs)-for use with 5" traditional drill pattern	132336	PMOS277 - 277V Occupancy Sensor 518029CLR ⁵
MHD - Mounting Hole Weatherproof Decal-for use with 3" reduced drill pattern	340120	

FOOTNOTES:

- See Area Lighting Brackets - Bolt-on and XAS3/XAM3 Area Lighting Brackets pages for Internal Slip-fitter brackets.
- Pole heights will have +/- 1/2" tolerance.
- See Flood Lighting Brackets section for choice of FBO brackets.
- Order PMOS separately. Change "XX" to indicate height and side of pole location for pole preparation. EX: OS8A indicates preparation is to be 8ft. up from pole base on side A. Optimal distance from ground to sensor is 10ft.
- OSXX option required. Not for use with Metal Halide fixtures

BOLT CIRCLE

	4" (102mm) square 10-1/8" (257mm) sq.	5" (127mm) square 10-1/8" (257mm) sq.	5" (127mm) square 10-1/8" (257mm) sq.	6" (152mm) square 12" (305mm) sq.
	11" (279mm) Dia. Bolt Circle	11" (279mm) Dia. Bolt Circle	11" (279mm) Dia. Bolt Circle	12" (305mm) Dia. Bolt Circle
	B	C	D	J
Bolt Circle	Slotted 8"-11" (203mm-279mm)	Slotted 9"-11" (229mm-279mm)	Slotted 9"-11" (229mm-279mm)	Slotted 12" (305mm)
Anchor Bolt Size	3/4" x 30" (19mm x 762mm)	3/4" x 30" (19mm x 762mm)	1" x 36" (25mm x 914mm)	1" x 36" (25mm x 914mm)
Anchor Bolt Projection	3-1/4" (83mm)	3-1/4" (83mm)	4" (102mm)	4" (102mm)
Base Plate Opening for Wireway Entry	3-5/8" (92mm)	4-3/4" (121mm)	4-5/8" (117mm)	5-5/8" (143mm)
Base Plate Dimensions	10-1/8" sq. x 3/4" thk. (257mm x 19mm)	10-1/8" sq. x 3/4" thk. (257mm x 19mm)	10-1/8" sq. x 1" thk. (257mm x 25mm)	12" sq. x 1-1/8" thk. (305mm x 29mm)

Note: Base plate illustrations may change without notice. Do not use for setting anchor bolts. Consult factory for the base plate templates.

EPA INFORMATION

All LSI Industries' poles are guaranteed to meet the EPA requirements listed. LSI Industries is not responsible if a pole order has a lower EPA rating than the indicated wind-loading zone where the pole will be located.
 CAUTION: This guarantee does not apply if the pole/bracket/fixture combination is used to support any other items such as flags, pennants, or signs, which would add stress to the pole. LSI Industries cannot accept responsibility for harm or damage caused in these situations.

NOTE: Pole calculations include a 1.3 gust factor over steady wind velocity. Example: poles designed to withstand 80 MPH steady wind will withstand gusts to 104 MPH. EPAs are for locations 100 miles away from hurricane ocean lines. Consult LSI for other areas. Note: Hurricane ocean lines are the Atlantic and Gulf of Mexico coastal areas. For applications in Florida or Canada, consult factory.