

Solicitation Amendment No. 01

Page 1 of 1

To: Prospective Bidder/Offeror:		Date:	
		July 1, 2011	
Project Title:		Project No.:	
Parking Lot Improvements at Central Campus		Project # 11-26	
Description of Solicitation Amendment:			
<p>The Request for Competitive Sealed Proposals (RFCSP) for Parking Lot Improvements at Central Campus (Project #11-26) is hereby amended as set forth below:</p> <p>Demolition Plan C-4.0 is revised as follows: "Key Note 17 <u>revised</u> to read Existing Traffic Control Box to remain; Key Note 19 <u>revised</u> to read Existing Traffic Signage Pole to remain; Key Note 28 <u>added</u> and read Existing Storm Sewer Manhole to remain; Key Note 29 <u>added</u> and read Existing Traffic Signal Electrical Pullbox to remain."</p> <p>Civil Site Plan C-6.0 is revised as follows: "Key Note 22 <u>revised</u> to read Existing Traffic Control Box to remain; Key Note 23 <u>revised</u> to read Existing Traffic Signal Pole to remain. Contractor shall construct the sidewalk around Traffic Signal Pole; Key Note 25 <u>added</u> and reads Existing Traffic Signal Pullbox to remain. Contractor shall construct the sidewalk around Existing Traffic Signal Pullbox; Key Note 26 <u>added</u> and reads Existing Parking Meters shall be removed during construction and replaced after construction is complete."</p> <p>"The cost for the relocation or removal of any power poles will be the responsibility of owner and shall not be included in this RFCSP. The Contractor shall coordinate with the owner and CenterPoint Energy for this task."</p> <p><u>Parking Meters</u>: There are a total of six (6) parking meters (five located on Winbern Street and one located on Holman Street) that will be taken down. Contractor must call the Parking Management Division located at 2020 McKinney Street, Houston, TX at Telephone number 832-393-8666 at time of application for the Traffic Control Plan. The cost is \$50.00 to take down each one of the meters and \$50.00 to reinstall the meter. The cost for loss of revenue while the meters are down is \$15.00 per day. The solar electronic apparatus will not be required."</p>			
Acknowledgement of Amendment No. 01 by:		Date:	
Company Name (Bidder/Offerer):			
Signed by:			
Name (Type or Print):		Title:	



Houston
Community
College

HCC - Construction Department
3100 Main, 12th Floor
Houston, Texas, 77002
Voice: 713.718.5168
reynaldo.pradia@hccs.edu



Issue/Revision:	DATE	BY
1 ISSUED FOR Bidding	06/09/11	JA
2 EXIST MANHOLE TO REMAIN	6-21-11	LJO

Ilwellyn-davies sahani
architecture + planning + design
5120 Woodway, Suite 8010
Houston, TX 77056
P: 713.850.1023
F: 713.850.1023
E: ilwellyn@ilwellyn.com



ENVIRONMENTALIS
ARCHITECTURE INTERIORS + LANDSCAPE ARCHITECTURE
15000 Katy Road, Suite 410
Houston, Texas 77060
P: 281-791-1574
F: 281-791-1574

STUDIO OF RESEARCH, STRATEGY & PLANNING
15425 FEEBLE BEND DR
HOUSTON, TEXAS 77060



E&C
E&C Engineers & Constructors, Inc.
1010 Lamar, #600
Houston, Texas 77002
713.566.8800
713.566.8800 fax

**Central Campus
Parking Lot Improvements**
1300 Holman Street
Houston, TX 77004

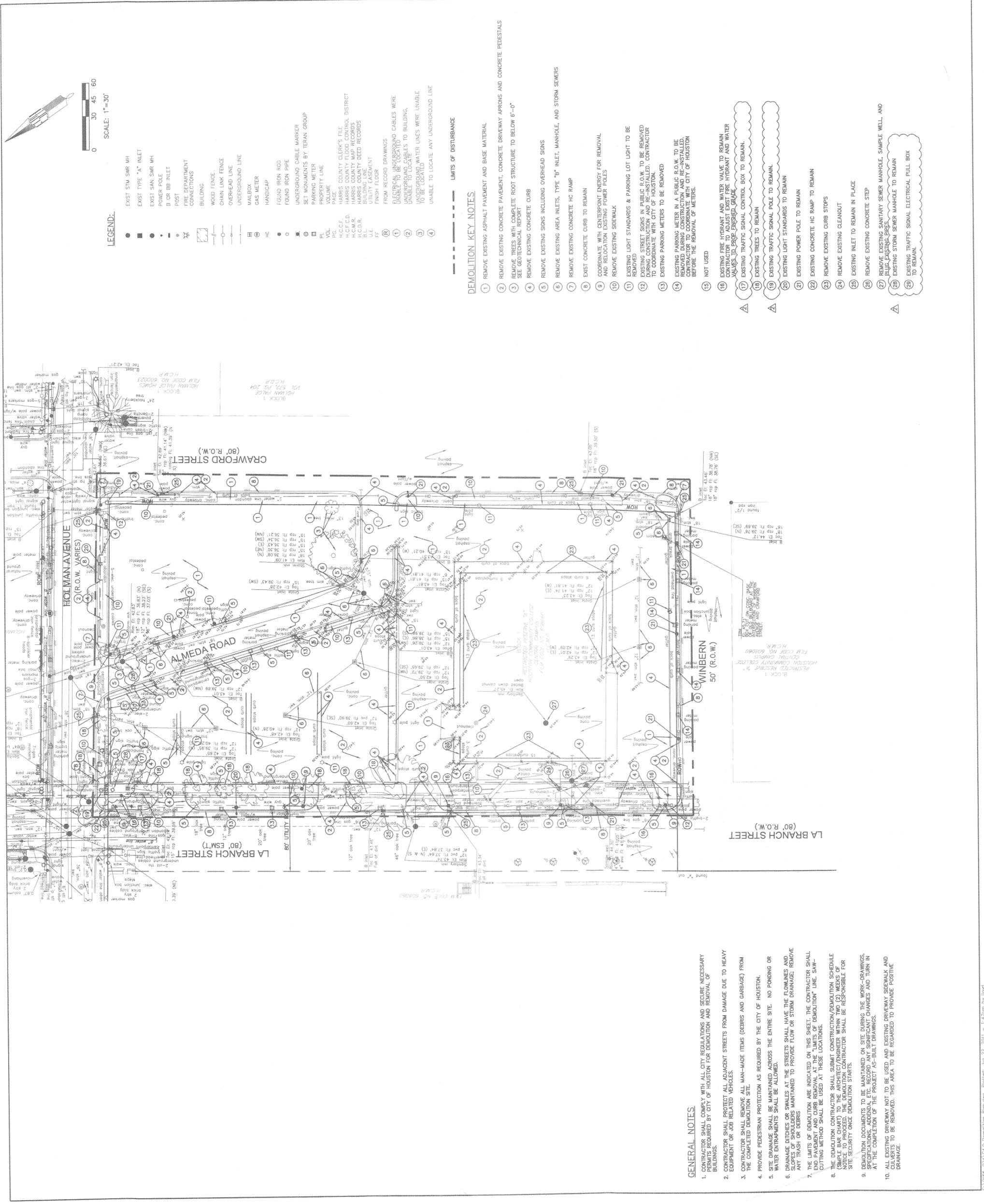
Contract No.:
Drawn By:
Checked By:
Approved By:
AE Project No.:
Date:
Date:
Date:

Ownership of Instruments of Service:
All reports, plans, specifications, computer files, field data, notes & other documents and instruments prepared for and by the client shall remain the property of the client. All rights shall become the property of Houston Community College. Houston Community College shall retain all rights, including the copyright therein.

DEMOLITION PLAN

Scale: 1"=30'

C-4-0



SCALE: 1"=30'

- LEGEND:**
- EXIST STM SWR MH
 - EXIST TYPE "A" INLET
 - EXIST SAN SWR MH
 - POWER POLE
 - B OR BB INLET
 - POST
 - DEPARTMENT CONNECTIONS
 - BUILDING
 - WOOD FENCE
 - CHAIN LINK FENCE
 - OVERHEAD LINE
 - UNDERGROUND LINE
 - MAILBOX
 - GAS METER
 - HANDICAP
 - FOUND IRON ROD
 - FOUND IRON PIPE
 - UNDERGROUND CABLE MARKER
 - SET MONUMENTS BY TERAN GROUP
 - PARKING METER
 - PROPERTY LINE
 - VOLUME
 - PAGE
 - H.C.C.F.
 - H.C.C.D.
 - H.C.C.R.
 - H.C.C.R.
 - B.L.
 - U.E.
 - F.F.
- FROM RECORD DRAWINGS
EXISTING UNDERGROUND CABLES WERE
EXAMINED AND LOCATED TO BE
UNDERGROUND CABLES TO BUILDING,
UNABLE TO LOCATE
- UNDERGROUND WATER LINES WERE UNABLE
TO LOCATE ANY UNDERGROUND LINE

DEMOLITION KEY NOTES

- 1 REMOVE EXISTING ASPHALT PAVEMENT AND BASE MATERIAL
- 2 REMOVE EXISTING CONCRETE PAVEMENT, CONCRETE DRIVEWAY APRONS AND CONCRETE PEDESTALS SEE GEOTECHNICAL REPORT
- 3 REMOVE EXISTING CONCRETE CURB
- 4 REMOVE EXISTING CONCRETE CURB
- 5 REMOVE EXISTING SIGNS INCLUDING OVERHEAD SIGNS
- 6 REMOVE EXISTING AREA INLETS, TYPE "B" INLET, MANHOLE, AND STORM SEWERS
- 7 REMOVE EXISTING CONCRETE HC RAMP
- 8 EXIST CONCRETE CURB TO REMAIN
- 9 COORDINATE WITH CENTERPOINT ENERGY FOR REMOVAL AND RELOCATION EXISTING POWER POLES
- 10 REMOVE EXISTING SIDEWALK
- 11 EXISTING LIGHT STANDARDS & PARKING LOT LIGHT TO BE REMOVED
- 12 EXISTING STREET SIGNS IN PUBLIC R.O.W. TO BE REMOVED DURING CONSTRUCTION AND RE-INSTALLED. CONTRACTOR TO COORDINATE WITH CITY OF HOUSTON
- 13 EXISTING PARKING METERS TO BE REMOVED
- 14 EXISTING PARKING METERS IN A PUBLIC R.O.W. TO BE REMOVED DURING CONSTRUCTION AND RE-INSTALLED. CONTRACTOR TO COORDINATE WITH CITY OF HOUSTON BEFORE THE REMOVAL OF METERS.
- 15 NOT USED
- 16 EXISTING FIRE HYDRANT AND WATER VALVE TO REMAIN CONTRACTOR TO ADJUST EXIST FIRE HYDRANT AND WATER VALVES TO PROPOSED FINISHED GRADE
- 17 EXISTING TRAFFIC SIGNAL CONTROL BOX TO REMAIN.
- 18 EXISTING TREES TO REMAIN
- 19 EXISTING TRAFFIC SIGNAL POLE TO REMAIN.
- 20 EXISTING LIGHT STANDARDS TO REMAIN
- 21 EXISTING POWER POLE TO REMAIN
- 22 EXISTING CONCRETE HC RAMP TO REMAIN
- 23 REMOVE EXISTING CURB STOPS
- 24 REMOVE EXISTING CLEANOUT
- 25 EXISTING INLET TO REMAIN IN PLACE
- 26 REMOVE EXISTING CONCRETE STEP
- 27 REMOVE EXISTING SANITARY SEWER MANHOLE, SAMPLE WELL, AND PLUS EXISTING PIPES
- 28 EXISTING STORM SEWER MANHOLE TO REMAIN
- 29 EXISTING TRAFFIC SIGNAL ELECTRICAL PULL BOX TO REMAIN

GENERAL NOTES

1. CONTRACTOR SHALL COMPLY WITH ALL CITY REGULATIONS AND SECURE NECESSARY PERMITS REQUIRED BY CITY OF HOUSTON FOR DEMOLITION AND REMOVAL OF BUILDINGS.
2. CONTRACTOR SHALL PROTECT ALL ADJACENT STREETS FROM DAMAGE DUE TO HEAVY EQUIPMENT OR JOB RELATED VEHICLES.
3. CONTRACTOR SHALL REMOVE ALL MAN-MADE ITEMS (DEBRIS AND GARBAGE) FROM THE COMPLETED DEMOLITION SITE.
4. PROVIDE PEDESTRIAN PROTECTION AS REQUIRED BY THE CITY OF HOUSTON.
5. SITE DRAINAGE SHALL BE MAINTAINED ACROSS THE ENTIRE SITE. NO PONDING OR WATER ENTANGLEMENTS SHALL BE ALLOWED.
6. DRAINAGE DITCHES OR SWALES AT THE STREETS SHALL HAVE THE FLOWLINES AND SLOPE GRADINGS MAINTAINED TO PROVIDE FLOW OR STORM DRAINAGE. REMOVE ANY TRASH OR DEBRIS.
7. THE LIMITS OF DEMOLITION ARE INDICATED ON THIS SHEET. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES AND DEMOLITION LINE. SAW-CUTTING METHOD SHALL BE USED AT THESE LOCATIONS.
8. THE DEMOLITION CONTRACTOR SHALL SUBMIT CONSTRUCTION/DEMOLITION SCHEDULE TO BE APPROVED BY THE CITY OF HOUSTON. THE DEMOLITION CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY ONCE DEMOLITION STARTS.
9. DEMOLITION DOCUMENTS TO BE MAINTAINED ON SITE DURING THE WORK-DRAWINGS TO BE MAINTAINED AS-BUILT DRAWINGS. CHANGES AND TURN IN AT THE COMPLETION OF THE PROJECT AS-BUILT DRAWINGS.
10. ALL EXISTING DRIVEWAY NOT TO BE USED AND EXISTING DRIVEWAY SIDEWALK AND CURBS TO BE REMOVED. THIS AREA TO BE REBARRED TO PROVIDE POSITIVE DRAINAGE.



Houston
Community
College

HCC - Construction Department
3100 Main, 12th Floor
Houston, Texas, 77002
Voice: 713.718.5168
reynaldo.prada@hccs.edu



Issue/Revision:	REV	DESCRIPTION	DATE	BY
	1	ISSUED FOR BID & CONSTRUCTION	06/09/11	JJA
	2	REV KEY NOTES 22,23,25 & 26	LJO	
	3	& DELETED DRIVE INTO		
	4	PARKING GARAGE		

llewelyn-davies sahnii
architecture + planning + design
5120 Woodway, Suite 8010
Houston, Texas 77056
T: 713.850.1500
F: 713.850.1023
E: info@heldnet.com



ENVIRONMENTALIS ACO
21500 HOUSTON ROAD, SUITE 100
HOUSTON, TEXAS 77058
T: 281-759-1513
F: 281-759-1523

STUDIO OF RICHARD JETER A/P/A LIGHTS DESIGNER
19403 PEBBLE BEACH DR
HOUSTON, TEXAS 77066

E&C
E&C Engineers & Consultants Inc
1010 Lamar #650
Houston, Texas 77002
T: 713.558.8800
F: 713.558.8899

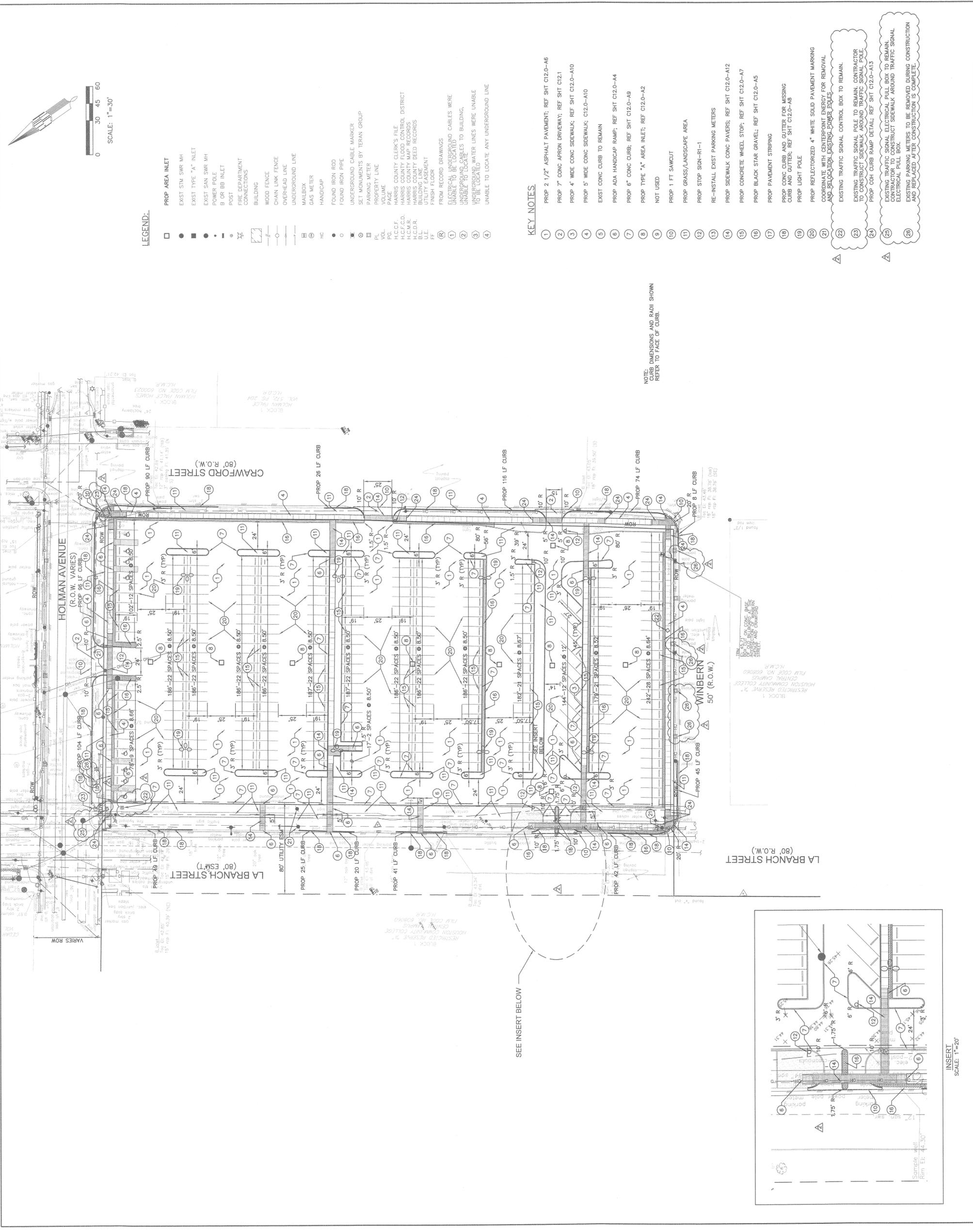
**Central Campus
Parking Lot Improvements**
1300 Holman Street
Houston, TX 77004

Contract No.:
Drawn By:
Checked By:
Approved By:

Ownership of Instruments of Service:
All reports, plans, specifications, computer files, field data, and other information submitted to the City of Houston for review and approval by the City of Houston as instruments of service shall become the property of Houston Community College. Houston Community College reserves all rights, including the copyright therein.

CIVIL SITE PLAN

Scale: 1"=30'



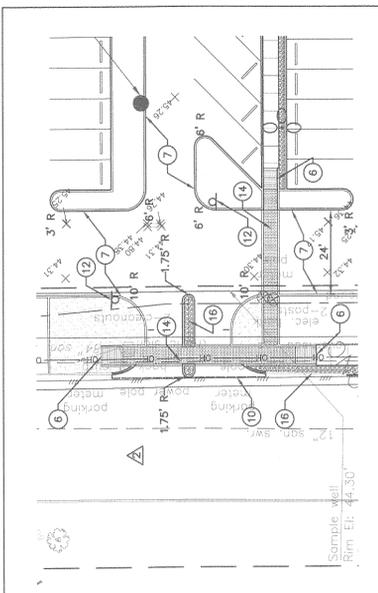
LEGEND:

- PROP AREA INLET
- EXIST STM SWR MH
- EXIST TYPE "A" INLET
- ▲ EXIST SAN SWR MH
- POWER POLE
- B OR BB INLET
- POST
- FIRE DEPARTMENT CONNECTIONS
- BUILDING
- WOOD FENCE
- CHAIN LINK FENCE
- OVERHEAD LINE
- UNDERGROUND LINE
- MAILBOX
- GAS METER
- HANDICAP
- FOUND IRON ROD
- UNDERGROUND CABLE MARKER
- SET MONUMENTS BY TERAN GROUP
- PARKING METER
- PROPERTY LINE
- VOLUME
- PAGE
- HARRIS COUNTY CLERK'S FILE
- H.C.C.F.
- H.C.M.A.D.
- H.C.M.A.R.
- H.C.D.R.
- B.L.
- U.T.E.
- U.T.
- FROM RECORD DRAWINGS
- UNABLE TO LOCATE
- UNABLE TO LOCATE ANY UNDERGROUND CABLES WERE
- UNABLE TO LOCATE
- UNABLE TO LOCATE
- UNABLE TO LOCATE
- UNABLE TO LOCATE ANY UNDERGROUND LINE

KEY NOTES

- 1 PROP 2 1/2" ASPHALT PAVEMENT; REF SHT C12.0-A6
- 2 PROP 7" CONC APRON DRIVEWAY; REF SHT C12.1
- 3 PROP 4" WIDE CONC SIDEWALK; REF SHT C12.0-A10
- 4 PROP 5" WIDE CONC SIDEWALK; C12.0-A10
- 5 EXIST CONC CURB TO REMAIN
- 6 PROP ADA HANDICAP RAMP; REF SHT C12.0-A4
- 7 PROP 6" CONC CURB; REF SHT C12.0-A9
- 8 PROP TYPE "A" AREA INLET; REF C12.0-A2
- 9 NOT USED
- 10 PROP 1 FT SAWCUT
- 11 PROP GRASS/LANDSCAPE AREA
- 12 PROP STOP SIGN-R1-1
- 13 RE-INSTALL EXIST PARKING METERS
- 14 PROP SIDEWALK CONC PAVERS; REF SHT C12.0-A12
- 15 PROP CONCRETE WHEEL STOP; REF SHT C12.0-A7
- 16 PROP BLACK STAR GRAVEL; REF SHT C12.0-A5
- 17 PROP PAVEMENT STRIPING
- 18 PROP CONC CURB AND GUTTER FOR MISSING CURB AND GUTTER; REF SHT C12.0-A8
- 19 PROP LIGHT POLE
- 20 PROP REFLECTORIZED 4" WHITE SOLID PAVEMENT MARKING COORDINATE WITH CENTERPOINT ENERGY FOR REMOVAL AND RELOCATION EXISTING POWER POLES
- 21 EXISTING TRAFFIC SIGNAL POLE TO REMAIN. CONTRACTOR TO CONSTRUCT SIDEWALK AROUND TRAFFIC SIGNAL POLE.
- 22 EXISTING TRAFFIC SIGNAL CONTROL BOX TO REMAIN. CONTRACTOR TO CONSTRUCT SIDEWALK AROUND TRAFFIC SIGNAL POLE.
- 23 PROP COB CURB RAMP DETAIL; REF SHT C12.0-A13
- 24 EXISTING TRAFFIC SIGNAL ELECTRICAL PULL BOX TO REMAIN. CONTRACTOR TO CONSTRUCT SIDEWALK AROUND TRAFFIC SIGNAL ELECTRICAL PULL BOX.
- 25 EXISTING PARKING METERS TO BE REMOVED DURING CONSTRUCTION AND REPLACED AFTER CONSTRUCTION IS COMPLETE.

NOTE: CURB DIMENSIONS AND RADIUS SHOWN REFER TO FACE OF CURB.



INSERT
SCALE: 1"=20'

Solicitation Amendment No. 02

Page 1 of 8

To: Prospective Bidder/Offeror:	Date:															
	March 2, 2011															
Project Title:	Project No.:															
Parking Lot Improvements at Central Campus	Project # 11-26															
Description of Solicitation Amendment:																
<p>The Request for Competitive Sealed Proposals (RFCSP) for Parking Lot Improvements at Central Campus (Project #11-26) is hereby amended as set forth below:</p> <p>Section 00 11 13, General Scope: is hereby deleted and replaced in its entirety with the following:</p> <p>“General Scope: The work includes parking lot improvements, landscaping and other related work as contained in the solicitation documents. The solicitation documents, including specifications and drawings, will be available for review at the Procurement Operations Department, 3100 Main Street (11th Floor, Room 11A06), Houston, Texas 77002 and the following Houston, Texas locations beginning February 28, 2011:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Company</th> <th style="text-align: left;">Address</th> <th style="text-align: left;">Telephone</th> </tr> </thead> <tbody> <tr> <td>Associated General Contractors</td> <td>3825 Dacoma Street, 77092</td> <td>(713) 843-3700</td> </tr> <tr> <td>McGraw-Hill Dodge Plan Room</td> <td>10606 Hempstead Rd, 77092</td> <td>(713) 681-2603</td> </tr> <tr> <td>Associated Builders & Contractors</td> <td>3910 Kirby, Suite 131, 77098</td> <td>(713) 523-6222</td> </tr> <tr> <td>Houston Minority Development Center</td> <td>4801 Woodway, Ste 210, 77056</td> <td>(713) 644-0821”</td> </tr> </tbody> </table> <p>Section 26 09 43 – LIGHTING CONTROLS is hereby replaced in its entirety and attached herein.</p> <p>Electrical Details SE301, Lighting Control Panel Wiring Diagram is hereby replaced in its entirety and attached herein.</p>		Company	Address	Telephone	Associated General Contractors	3825 Dacoma Street, 77092	(713) 843-3700	McGraw-Hill Dodge Plan Room	10606 Hempstead Rd, 77092	(713) 681-2603	Associated Builders & Contractors	3910 Kirby, Suite 131, 77098	(713) 523-6222	Houston Minority Development Center	4801 Woodway, Ste 210, 77056	(713) 644-0821”
Company	Address	Telephone														
Associated General Contractors	3825 Dacoma Street, 77092	(713) 843-3700														
McGraw-Hill Dodge Plan Room	10606 Hempstead Rd, 77092	(713) 681-2603														
Associated Builders & Contractors	3910 Kirby, Suite 131, 77098	(713) 523-6222														
Houston Minority Development Center	4801 Woodway, Ste 210, 77056	(713) 644-0821”														
Acknowledgement of Amendment No. 02 by:	Date:															
Company Name (Bidder/Offerer):																
Signed by:																
Name (Type or Print):	Title:															

SECTION 26 09 43-LIGHTING CONTROLS

PART 1 – GENERAL

1.1 SECTION INCLUDES

- A. The extent of the lighting control system work is indicated by the drawings and by the requirements of this section. It is defined to include, but not by way of limitation:
 - 1. Associated low voltage switches and external time clocks
 - 2. Any work stations, software and communications hardware required to interface with the existing .
 - 3. System shall be BACnet compatible.
- B. System installation includes the following:
 - 1. Wiring of control conductors
 - 2. Installation of communications conductors and associated hardware

1.2 RELATED SECTIONS

- A. Section 26 05 63 – Identification for Electrical Systems.
- B. Section 26 05 19 – Low Voltage Power Connections.

1.3 QUALITY ASSURANCE:

- A. Manufacturers Provide products complying with these specifications and produced by one of the following:
 - 1. Andover Controls Infinity LCX Lighting Controllers
 - 2. Or Equal.
- B. All components are to be supplied by same manufacturer. Manufacturer to be a supplier of this type of equipment for over 10 years
- C. Component Testing: All electronic component board assemblies are to be factory tested and burned in prior to installation.
- D. System Support: Factory fax/telephone/email support shall be available free of charge during normal business hours.
- E. NEMA Compliance: Comply with applicable portions of NEMA standards pertaining to types of electrical equipment and enclosures.
- F. NEC Compliance: Comply with applicable portions of the NEC including Articles 110-10 and 725.

1.4 SUBMITTALS:

- A. Product Data Sheets: Submit manufacturer's data sheet for the lighting control system and specified components
 - B. One Line Diagram: Submit a one-line diagram of the system configuration proposed including, but not limited to, low voltage switches, occupancy sensors, light level controllers, communications devices, and personal computers.
- 1.5 PRODUCT DELIVERY, STORAGE AND HANDLING:
- A. Deliver components in factory-fabricated water resistant packaging.
 - B. Handle components carefully to avoid damage to components, enclosures, and finish.
 - C. Store components in a clean, dry space and protect from weather.

PART 2 – PRODUCTS

2.1 LOW VOLTAGE SWITCHING CONTROLS:

- A. The Low Voltage Switching System shall consist of relay panel assemblies, low voltage switches, as well as their associated wiring in accordance with manufacturer's recommendations.
 - 1. System shall provide time based automatic control on all switched circuits that shall operate independently in each panel.
 - 2. A dataline shall interconnect all panels, and allow programming and manual override from a PC, furnished and set-up by Division 26.
- B. All relay panel interiors shall be pre-assembled complete with the necessary relays, transformers and devices. Relay panel interiors are to be separate from enclosure to permit easy mounting, conduit installation and wire pull to enclosures. Interiors to be inserted last and connections made. Modular Relay Panels shall be UL listed and consist of the following:
 - 1. Tub: Empty NEMA 1 enclosure that can accept an interior sized to accept up to 8, 16, 24 or 48 mechanically latching relays.
 - 2. Power Supply: Transformer assembly with two 40VA transformers with separate secondaries. Transformers include internal overcurrent protection with automatic reset and metal oxide varistor protection against power line spikes. Single unit provides either 120 or 277 VAC as required, 60 Hz +/- 10%.
 - 3. Cover: Surface or Flush as required, with captive screws in a hinged, lockable configuration.
 - 4. Interior: Bracket and intelligence board back pan with pre-mounted relays. Interiors shall be provided with up to 12, 24, or 48 installed and tested relays.

5. Panel shall be provided with an integral DIN rail mounting bar for easy installation of other system components (such as a time clock and/or photocell controller). Terminals shall be included in the interior to accept a dataline for the connection of dataline switches to the system.
 6. Eight channels for grouping relays shall be provided in each interior regardless of size, each with an associated pushbutton to toggle the channel ON/OFF, and a terminal block for a separate dry contact input. Any number of relays in the panel can be assigned to each channel, with overlapping allowed. Channels shall be set up via Smartwiring, i.e. no hand held programmer or keypad is required. Systems that require programmers or keypads, or that change relay states during set up, are not acceptable. Each channel pushbutton shall provide LED status indication: RED shall indicate that all relays within the channel group are ON; NO LED shall indicate that all relays within the group are OFF, and GREEN shall indicate the channel's relays are in a MIXED state (some OFF, some ON).
- C. Relays shall be momentary-pulsed mechanically latching contactors with plug in connector. Relays shall have mechanically latching contacts with single moving part design for improved reliability.
1. Relays will have the following characteristics:
 - a. Coil
 - 1) Magnetically held, momentary coil activation (50 milliseconds).
 - 2) 2.2 VA max per relay to allow up to 20 relays to be controlled in parallel using class 2 wiring.
 - 3) Split coil - ½ for ON, ½ for OFF.
 - b. Power Contacts
 - 1) 20 amp tungsten and NEMA electronic ballast rated.
 - 2) Rated for 50,000 ON/OFF cycles at full load.
 - 3) Support #10 - #14 AWG solid or stranded wire.
 - 4) 120, 277 and 347 volt rated.
 - 5) Standard 1 year warranty.
 - c. 30 VAC Isolated contacts for status feedback and pilot light indication.
 - d. FCC approved for commercial and residential use.
 2. Next to each relay shall be an individual override button and a bi-color LED to indicate status.
 3. Panels shall support the "blink warning" function, with LED indication for each relay.
 4. Relays controlling HID fixtures shall not utilize the blink function.
 5. Captive screw terminations will be provided for all wiring connections.
 6. Each channel button's dry control contact input terminal shall accept either 2 or 3-wire, maintained or momentary inputs. They shall also accept a 2-wire toggling input.
 7. Each channel shall also have an associated 1 amp, 30 VDC isolated contact which may be used for status feedback or pilot light control.

8. Each panel shall include simple dials for setting a 2-digit panel address.
 9. The Relay Panel shall use an EEPROM to record the channel's smartwiring assignments and the current status of all relays, thus insuring a 20-year backup of information in the event of a power failure. Systems that require a chargeable battery with less than 10 year's life shall not be allowed.
 10. The unit shall provide LED status indication of the power supply status. Access to 24VAC and 24V rectified power for accessory devices shall be provided within the panel.
 11. The panel shall have an integrated DIN rail for mounting dataline control modules.
- D. Relay panels shall be networked together.
- E. The network shall use LonWorks Inter-Operable technology and the network nodes attached to the relay scanners shall be LonMark certified to the Level 3.1 standard for lighting.
- F. Switches: Provide Specification Grade standard, keyed, pilot, or locator configuration momentary pushbutton type switches as shown on the plans for overriding the relays. Colors and markings as indicated on plans.
1. Provide coverplates of materials as specified in Section 16140, "Wiring Devices".

2.2 PHOTOCONTROL MODULE

- A. Provide a photometric sensor, capable of sensing from 1-6,000 foot candles. The sensor is to be connected via 2-conductor, #18 AWG wire to the control unit located in the panel. Existing light levels shall be continuously displayed by LED's. Set point adjustments shall be easy to set with UP and DOWN control buttons. Instructions shall be printed on the label of the control unit.
- B. The control unit shall have two sets of outputs. Both output sets shall be capable of being overridden by a remote switch or via a button built into the photocell control unit.
- C. Each of the channels shall have the ability to be assigned a different trip level.

2.3 WIRING AND RACEWAYS:

- A. Line Voltage Control Wiring: This wiring shall be as specified in Section 26 05 19, "Low Voltage Power Conductors and Cables".
- B. Low Voltage Control Wiring: This wiring shall be as specified in Section 26 05 19 except that conductors shall consist of a multiconductor jacketed cable whenever possible.
- C. Raceways: Raceways for line voltage and low voltage control wiring shall be as specified in Section 26 05 33, "Raceways and Boxes for Electrical Systems".

PART 3 – EXECUTION

3.1 INSTALLATION OF MISCELLANEOUS ELECTRICAL CONTROLS:

- A. General: Install miscellaneous electrical control devices as shown, in accordance with applicable portions of the NECA's "Standard of Installation", and recognized industry practices to ensure that products serve the intended functions.
- B. Conductors: Connect electrical conductors to miscellaneous electrical control devices in accordance with equipment manufacturer's written instructions and wiring diagrams. Wherever possible, match conductors of the electrical connection for proper interface between the electrical supply and the installed equipment.
- C. Contactors, Relays and Low Voltage Switches: Install contactors, relays and low voltage switches mounted in panelboards or individual enclosures as shown and be complete, including all control wiring and devices.
- D. Programming: The Field Service Representative shall be responsible for programming the system based on the preliminary lighting schedule.
- E. Line and Low Voltage Control Wiring: Line and low voltage control wiring shall be installed in a suitable raceway.
- F. Dataline switches shall be mounted in the spaces as indicated on the Reflected Ceiling Plans. Each low voltage wire shall be labeled clearly indicating which relay panel it connects to. Use only properly color-coded, stranded #18 AWG (or larger) wire as indicated on the drawings. All relays and switches shall be tested after installation to confirm proper operation, and all connected loads shall be recorded on the relay schedule for each panel.
- G. The relay panel shall be mounted as indicated on the drawings. The numbered relays in the panel shall be wired to control the power to each load as indicated on the Panel Wiring Schedules included in the drawings. All power wiring will be identified with the circuit breaker number controlling the load. If multiple circuit breaker panels are feeding into a relay panel, wires shall clearly indicate the originating panel's designation.

3.2 SYSTEM STARTUP

- A. Manufacturer shall provide a factory authorized technician to confirm proper installation and operation of all system components.

3.3 TRAINING

- A. Lighting Control manufacturer shall provide Owner personnel training on the operation and programming of the lighting control system. Provide 24 hours for programming and system training.

3.4 DOCUMENTATION

- A. Manufacturer shall provide system documentation including:
 - 1. System 1-line showing all panels, system inputs and outputs and dataline.
 - 2. Drawings for each panel showing hardware configuration and numbering.
 - 3. Relay panel schedules indicating circuits connected, inputs assigned, area controlled, panel location and panel equipment details.
 - 4. Typical wiring diagrams for each component.

3.5 TESTING:

- A. Test contactors, relays, photocells, time switches, and related controls to verify that they function as designed and specified.
- B. Repair or replace any devices or installation which does not function as designed and specified.

3.6 WARRANTY

- A. Refer to Division 1 and General Conditions for information regarding warranty.

END OF SECTION 26 09 43



NO.	DATE	BY
1	07/27/11	SA
2	08/11/11	SA
3	08/11/11	SA
4	08/11/11	SA
5	08/11/11	SA
6	08/11/11	SA
7	08/11/11	SA
8	08/11/11	SA
9	08/11/11	SA
10	08/11/11	SA

lleweyn-davies sahani
architecture + planning + design
5130 Woodway, Suite 800
Houston, TX 77056
P: 713.882.5200
F: 713.882.5200
E: info@llesahni.com



ENVIRONMENTAL
ELECTRICAL
PLUMBING
MECHANICAL
INSULATION
CORPORATION
11000 Katy Road, Suite 100
Houston, TX 77058
P: 281.462.1100
F: 281.462.1100
E: info@envcorp.com

ENGINEER OF RECORD: JEFFREY W. WEAVER, P.E.
11000 Katy Road, Suite 100
Houston, TX 77058
P: 281.462.1100
F: 281.462.1100
E: jeff@envcorp.com

PROJECT: Central Campus Parking Lot Improvements
DATE: 07/27/11
SCALE: NOT TO SCALE

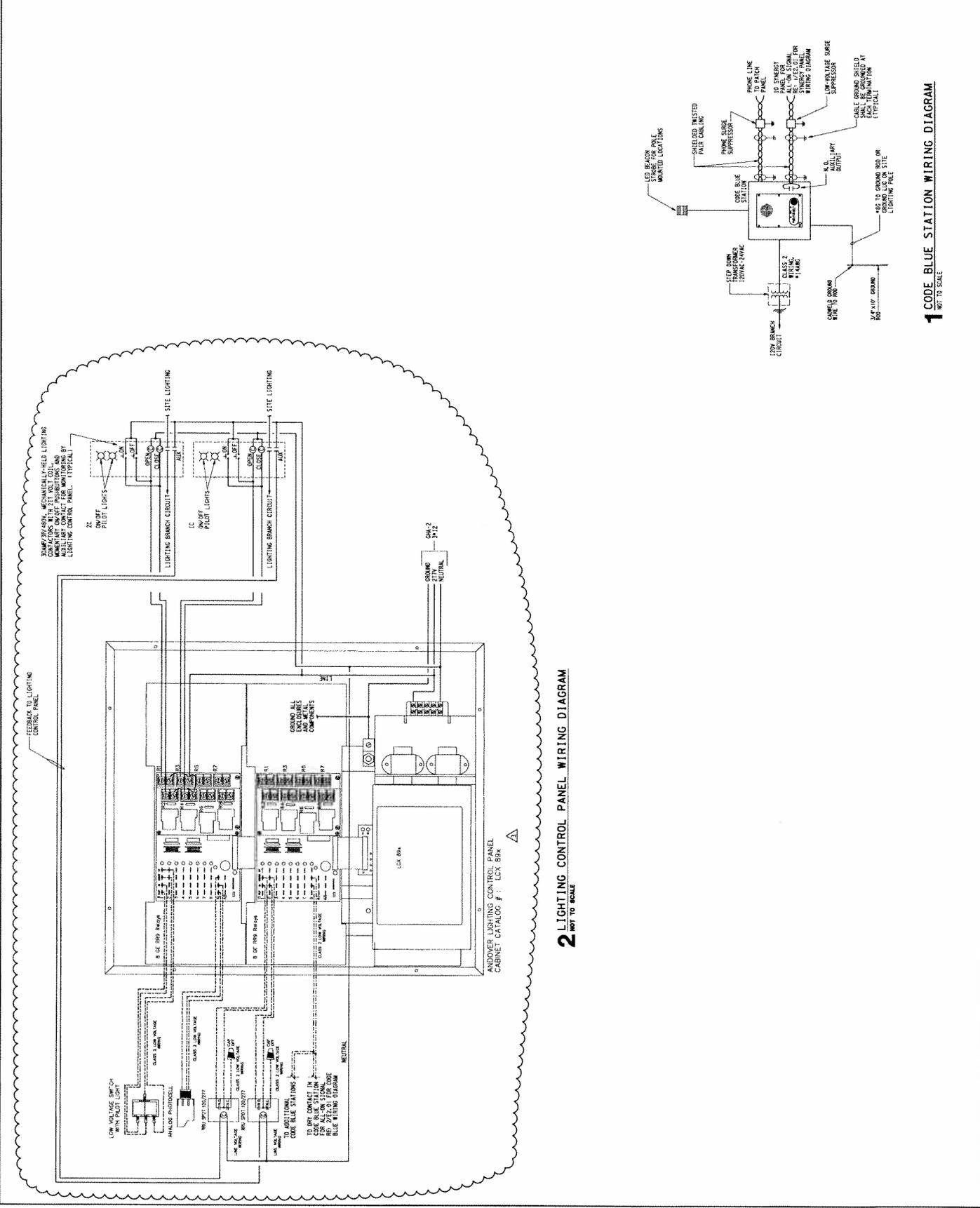
Contract No.: AE Project No. _____
Owner: _____
Design By: _____
Approved By: _____
Date: _____

Ownership of the contents of this drawing is retained by the Designer. The Designer warrants that the information provided herein is true and correct to the best of his knowledge and belief. The Designer does not warrant the accuracy of the information provided herein. The Designer shall not be held liable for any errors or omissions in this drawing, including any typographical errors.

ELECTRICAL DETAILS

Scale: _____

SE301



2 LIGHTING CONTROL PANEL WIRING DIAGRAM
NOT TO SCALE

Solicitation Amendment No. 03

Page 1 of 5

To: Prospective Bidder/Offeror:	Date:
	March 4, 2011
Project Title:	Project No.:
Parking Lot Improvements at Central Campus	Project # 11-26
Description of Solicitation Amendment:	
<p>The Request for Competitive Sealed Proposals (RFCSP) for Parking Lot Improvements at Central Campus (Project #11-26) is hereby amended as set forth below:</p> <p>Section 32 14 00 – UNIT PAVING is hereby incorporated and made part of this RFP and attached herein.</p> <p>Section 00 11 13 - PROPOSAL DUE DATE/TIME: The proposal Due Date/Time has been extended until 2:00 PM (local time) on Tuesday, March 22, 2011. Proposals will be received in the Procurement Operations Department, 3100 Main Street (11th Floor 11A06) Houston, TX 77002.</p> <p>Section 00 11 13 - BID OPENING DATE/TIME: Price proposals will be publicly opened and the name of offerer(s) and the prices stated in each proposal will be read aloud at 2:30 PM (local time) on Tuesday, March 22, 2011 at 3100 Main Street (11th Floor Conference Room 11A07).</p>	
Acknowledgement of Amendment No. 03 by:	Date:
Company Name (Bidder/Offerer):	
Signed by:	
Name (Type or Print):	Title:

SECTION 32 14 00 – UNIT PAVING

PART 1 – GENERAL

1.1 SUMMARY

- A. Concrete pavers set in **sand** setting beds over reinforced concrete base.
- B. Permeable Pavers set in aggregate setting bed over stone sub-base
- C. **Edge restraints** for unit pavers.

1.2 SUBMITTALS

- A. Product Data: For materials other than water and aggregates.
- B. Samples for **unit pavers, joint materials and edge restraints**.

1.3 QUALITY ASSURANCE

- A. **Mockups: Build mockups for each form and pattern of unit paver.**
 - 1. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.4 PROJECT CONDITIONS

- A. Cold-Weather Protection: Do not use frozen materials or build on frozen subgrade or setting beds.

PART 2 – PRODUCTS

2.1 CONCRETE PAVERS

- A. Concrete Pavers: Solid interlocking paving units complying with ASTM C 936, made from normal-weight aggregates.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide the named product or a comparable product by one of the following:
 - a. Pavestone

- b. Mutual Materials
- c. Or approved equal

Thickness: 2-3/8 inches.

- 2. Rectangular, Face Size and Shape: 3-7/8 inches x 7-13/16 inches .
- 3. Color: As selected by Architect from manufacturer's full range.

2.2 NOT USED

2.3 ACCESSORIES

- A. Aluminum Edge Restraints: **L-shaped, 1/8-inch thick by 2-1/4-inch- high** extruded-aluminum edging with holes to allow Ramset/Hilti 1" nail fastened to concrete sub-base @ 12" O.C.

- 1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
- 2. Manufacturer: Subject to compliance with requirements, provide products by one of the following:
 - a. BRICKSTOP Corporation.
 - b. Curv-Rite, Inc.
 - c. Permaloc Corporation.
 - d. Sure-Loc Edging Corporation.

- B. Cork Joint Filler: Preformed strips complying with ASTM D 1752, Type II.

- C. Compressible Foam Filler: Preformed strips complying with ASTM D 1056, Grade 2A1.

2.4 CONCRETE SETTING-BED MATERIALS

A. Concrete sub-base as indicated on paving details

- B. Sand for Leveling Course: Sound, sharp, washed, natural sand or crushed stone complying with gradation requirements in ASTM C 33 for fine aggregate.

- C. Sand for Joints: Fine, sharp, washed, natural sand or crushed stone with 100 percent passing No. 16 (1.18-mm) sieve and no more than 10 percent passing No. 200 (0.075-mm) sieve.

- D. Drainage Geotextile: Nonwoven needle-punched geotextile made from polyolefins or polyesters; with elongation greater than 50 percent; complying with AASHTO M 288 and the following:

1. Apparent Opening Size: No. 40 (0.425-mm) sieve, maximum; ASTM D 4751.
2. Permittivity: 0.5 per second, minimum; ASTM D 4491.

2.5 NOT USED

PART 3 – EXECUTION

3.1 INSTALLATION, GENERAL

- A. Mix pavers from several pallets or cubes, as they are placed, to produce uniform blend of colors and textures.
- B. Cut unit pavers with motor-driven masonry saw equipment to provide pattern indicated and to fit adjoining work neatly. Use full units without cutting where possible.
 1. Joint Pattern: **As indicated.**
- C. Tolerances: Do not exceed 1/16-inch (1.6-mm) unit-to-unit offset from flush (lippage) nor 1/8 inch in 24 inches (3 mm in 600 mm) and 1/4 inch in 10 feet (6 mm in 3 m) from level, or indicated slope, for finished surface of paving.
- D. Expansion and Control Joints: Provide foam filler as backing for sealant-filled joints. Install joint filler before setting pavers.
- E. Expansion and Control Joints: Provide joint filler at locations and of widths indicated. Install joint filler before setting pavers. Make top of joint filler flush with top of pavers.
- F. Provide edge restraints as indicated. Install edge restraints before placing unit pavers.

3.2 CONCRETE SETTING-BED APPLICATIONS

- A. Compact soil subgrade as indicated for concrete placement.
- B. Place drainage geotextile over concrete sub-base course, overlapping ends and edges at least 12 inches (300 mm).
- C. Place leveling course and screed to a thickness of 1 to 1-1/2 inches (25 to 38 mm), taking care that moisture content remains constant and density is loose and constant until pavers are set and compacted.
- D. Treat leveling course with herbicide to inhibit growth of grass and weeds.

- E. Set pavers with a minimum joint width of 1/16 inch (1.5 mm) and a maximum of 1/8 inch (3 mm), being careful not to disturb leveling base. If pavers have spacer bars, place pavers hand tight against spacer bars.
- F. Vibrate pavers into leveling course with a low-amplitude plate vibrator capable of a 3500- to 5000-lbf (16- to 22-kN) compaction force at 80 to 90 Hz.
- G. Spread dry sand and fill joints immediately after vibrating pavers into leveling course. Vibrate pavers and add sand until joints are completely filled, then remove excess sand. Leave a slight surplus of sand on the surface for joint filling.

END OF SECTION 32 16 13

Solicitation Amendment No. 04

Page 1 of 6

To: Prospective Bidder/Offeror:	Date:
	March 9, 2011
Project Title:	Project No.:
Parking Lot Improvements at Central Campus	Project # 11-26
Description of Solicitation Amendment:	
<p>The Request for Competitive Sealed Proposals (RFCSP) for Parking Lot Improvements at Central Campus (Project #11-26) is hereby amended as set forth below:</p> <p>Electrical Alteration Site Plan SE200 is hereby replaced in its entirety and attached herein.</p> <p>Electrical Details SE301 is hereby replaced in its entirety and attached herein.</p> <p>Blue Light Standard is hereby incorporated and made part of this RFP and attached herein.</p>	
Acknowledgement of Amendment No. 04 by: _____	Date:
Company Name (Bidder/Offerer):	
Signed by:	
Name (Type or Print):	Title:



Central Campus Parking Lot Improvements

Blue Light Standard



Hlewelyn-davies sahani
architecture + planning + design

February 2011

CB 4-r



FEATURES

- IA4100™ half duplex speakerphone
- 2 Auxiliary inputs/ 3 Auxilliary outputs (3 NO/3NC)
- 24v AC power
- ADA compliant
- Voice Identifier
- Vandal resistant hardware
- Phone line surge suppressor
- Ultra-weather resistant finish
- Analog telephone connection
- LED lit stainless steel faceplate (FP1)
- Remote mount LED beacon/strobe kit (S-550)
- Pole mount hardware kit

FINISH COLORS

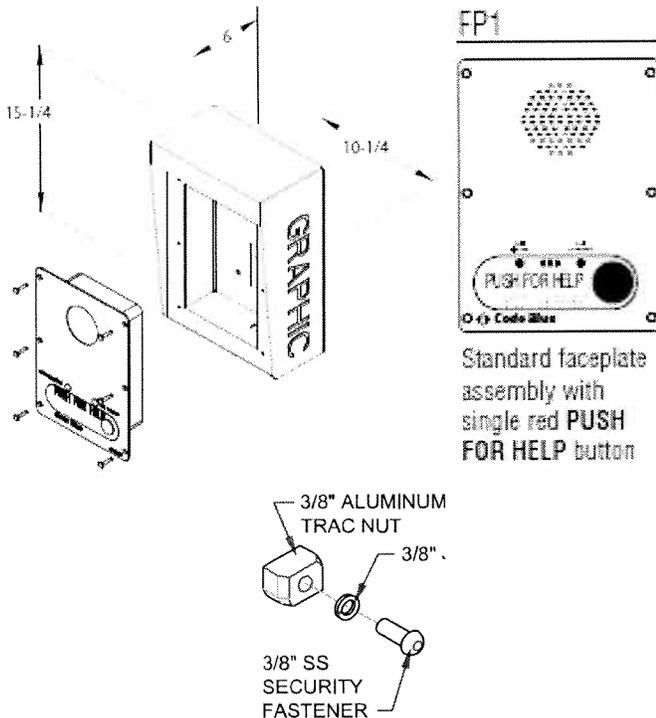
- Safety Blue

GRAPHICS

- "Emergency" Reflective White

FACEPLATE OPTIONS

- FP1 - Standard Faceplate assembly with single red **PUSH FOR HELP** button



MOUNTING OPTION

- "Site Link" Light Pole - Track Nut hardware ordered from Holophane. Minimum 2 Track Nuts per CB 4-r unit

Holophane - Site Link - Track Nut
for Track Pole Mounting

Remote Mount Combination LED Beacon/Strobe



The Code Blue Combination Blue Beacon/Strobe option provides a highly visual constant blue beacon and a powerful activated strobe for rapid recognition of the unit location.

The remote mount feature (shown) allows placement for maximum effectiveness. Remote combo strobe mounting kit can be used to optimize installation cost.

FEATURES

- Polycarbonate refractor with prismatic design to distribute light in a horizontal pattern
- Suitable for indoor or outdoor use
- Low voltage S-550 combo strobe standard
- Heavy duty stainless steel mounting bracket
- Electrical enclosures and gaskets for weather resistant installation
- Pole bracket and banding included

MOUNTING OPTION

- "Site Link" Light Pole - Track Nut hardware ordered from Holophane. Minimum 1 Track Nuts per strobe



Holophane - Site Link - Track Nut for Track Pole Mounting