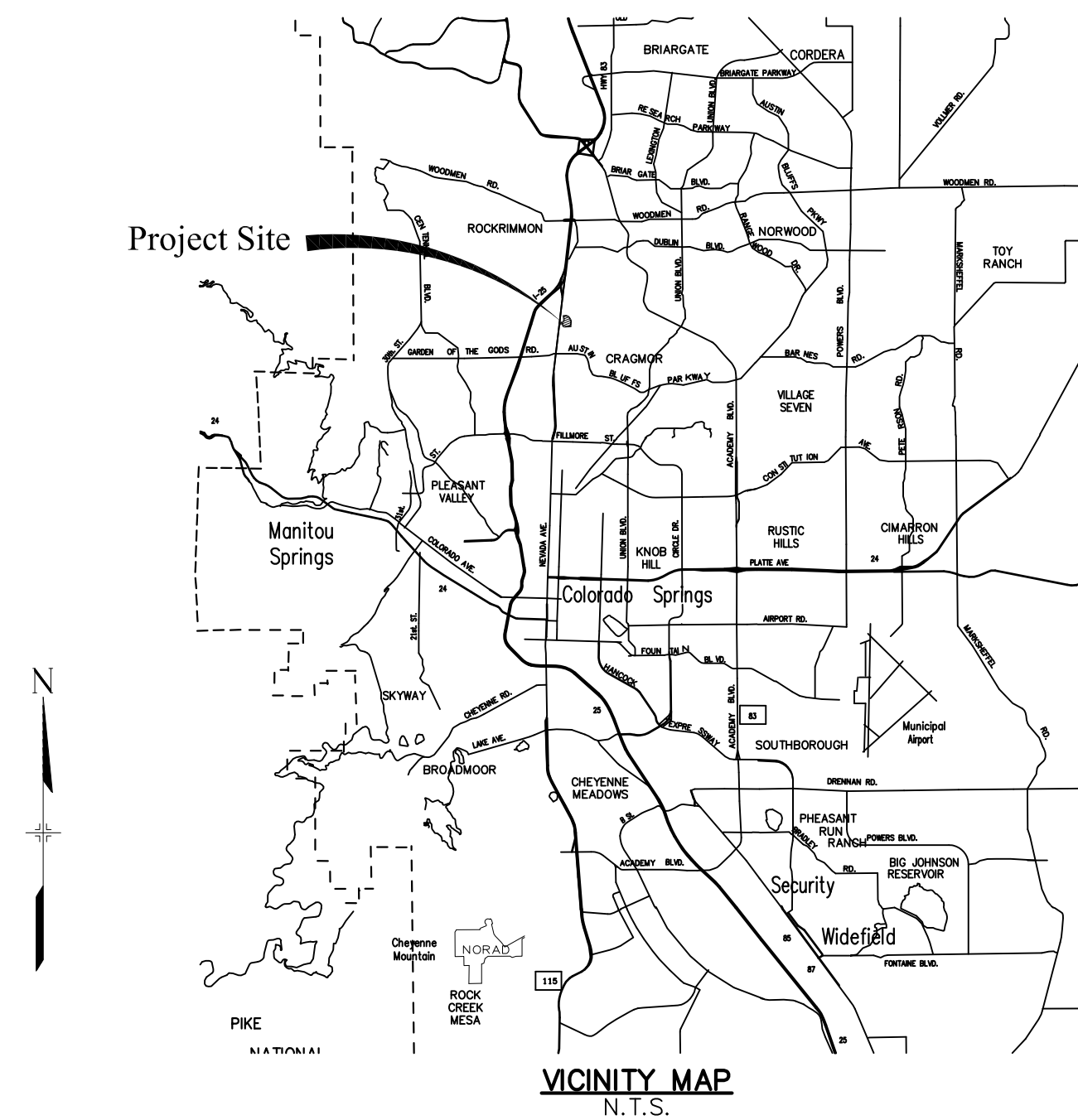


UCCS ARENA PARKING LOT  
COLORADO SPRINGS, COLORADO  
SITE DEVELOPMENT PLANS  
FEBRUARY 2012

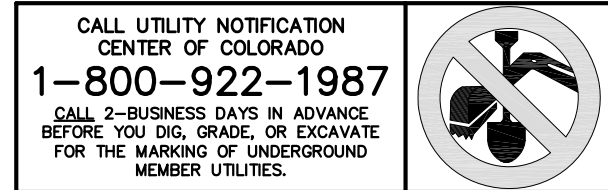
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OWNER:  
UNIVERSITY OF COLORADO AT COLORADO SPRINGS (UCCS)  
1420 AUSTIN BLUFFS PARKWAY  
COLORADO SPRINGS, CO 80918  
CONTACT: GARY REYNOLDS  
(719) 255-3505

CIVIL ENGINEERS:  
MATRIX DESIGN GROUP, INC.  
2435 RESEARCH PARKWAY, SUITE 300  
COLORADO SPRINGS, CO 80920



MCBAUER  
INVESTMENTS

RIDGELINE  
INVESTMENTS

NORTH CAMPUS  
HEIGHTS

REGENTS OF THE  
UNIVERSITY OF  
COLORADO-COLORADO  
SPRINGS

FOUR DIAMONDS  
SPORTS COMPLEX

SITE MAP  
N.T.S.

GENERAL NOTES:

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE "UCCS CAMPUS CONSTRUCTION STANDARDS".
- UTILITY LINES AS SHOWN ON THE PLAN SHEETS ARE PLOTTED FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION AND PROTECTION OF ALL UTILITIES IN PLACE.
- THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 1-800-922-1987 TWO BUSINESS DAYS IN ADVANCE OF ANY EXCAVATING OR GRADING.
- THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL UTILITIES AND STRUCTURES AFFECTED BY THE WORK AND ANY DAMAGE SHALL BE REPAIRED AND RESTORED TO THE SATISFACTION OF THE UCCS FACILITIES DIRECTOR.
- THE PHYSICAL FEATURES WITHIN THE LIMITS OF THE PROJECT HAVE BEEN SHOWN BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF DESIGN. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE FEATURES SHOWN. THE CONTRACTOR SHALL REVIEW AND VERIFY EXISTING PHYSICAL FEATURES AND INFORM HIMSELF OF THE CONDITIONS TO BE ENCOUNTERED DURING CONSTRUCTION.
- ALL WORK SHALL BE DONE TO THE LINES, GRADES, SECTIONS, AND ELEVATIONS SHOWN ON THE PLANS UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THOSE AREAS WITHIN THE LIMITS OF DISTURBANCE AND/OR TOES OF SLOPE AS SHOWN ON THE PLANS AND CROSS SECTIONS. ANY DISTURBANCE BEYOND THESE LIMITS SHALL BE RESTORED TO ORIGINAL CONDITIONS BY THE CONTRACTOR AT HIS/HER CONVENIENCE. CONSTRUCTION ACTIVITIES, IN ADDITION TO NORMAL CONSTRUCTION PROCEDURES, SHALL INCLUDE THE PARKING OF VEHICLES OR EQUIPMENT, DISPOSAL OF LITTER AND ANY OTHER ACTION WHICH WOULD ALTER EXISTING CONDITIONS.
- THE PHYSICAL FEATURES REQUIRING REMOVAL OR OBLITERATION WITHIN THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF-SITE. THE EXCEPTION IS TRAFFIC CONTROL DEVICES, WHICH SHALL BE SALVAGED FOR CITY MAINTENANCE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING ANY MONUMENTATION, RANGE POINTS, TIES, BENCHMARKS AND/OR SURVEY CONTROL POINTS WHICH MAY BE DISTURBED OR DESTROYED BY CONSTRUCTION. SUCH POINTS SHALL BE REFERENCED AND REPLACED WITH APPROPRIATE MONUMENTATION BY A REGISTERED PROFESSIONAL LAND SURVEYOR AUTHORIZED TO PRACTICE LAND SURVEYING IN COLORADO.
- THE CONTRACTOR SHALL NOT STOCKPILE MATERIAL WITHIN 10 FT OF THE EDGE OF TRAVELED WAY.
- THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN TEMPORARY TRAFFIC CONTROL DEVICES NECESSARY THROUGHOUT THE DURATION OF CONSTRUCTION. THE CONTRACTOR SHALL CONTACT TRAFFIC ENGINEERING FORTY-EIGHT (48) HOURS IN ADVANCE FOR ANY REQUIRED MODIFICATION OF TRAFFIC SIGNALS WITHIN CONSTRUCTION AREA AS NECESSARY TO MAINTAIN SAFE OPERATIONS.
- ANY DISCREPANCY WITHIN THESE PLANS SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.
- ACCESS TO HELLER PROPERTY MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

TRAFFIC GENERAL NOTES:

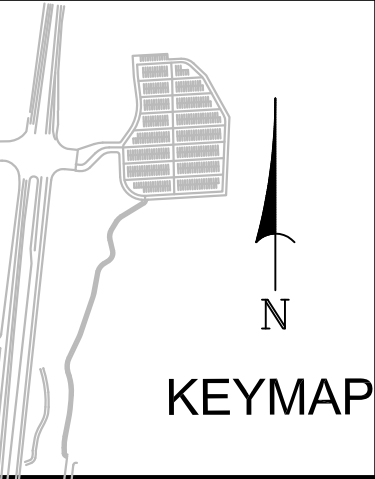
- BEFORE EXCAVATING, CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NEW, TEMPORARY AND EXISTING TRAFFIC SIGNS FROM THE START OF THE CONSTRUCTION PROJECT UNTIL ACCEPTANCE BY CITY TRAFFIC ENGINEERING.
- ALL TRAFFIC SIGNS, PAVEMENT MARKINGS, AND TRAFFIC SIGNALS SHALL MEET OR EXCEED M.U.T.C.D. STANDARDS.
- THE CONTRACTOR SHALL NOT REMOVE ANY EXISTING SIGNS, PAVEMENTS MARKINGS OR TRAFFIC SIGNALS DURING THE PROJECT WITHOUT SIGNED AUTHORIZATION OF THE CITY ENGINEERING INSPECTOR ASSIGNED TO THE PROJECT.
- CONTRACTOR SHALL PREPARE A DETAILED TRAFFIC CONTROL PLAN, SUBMIT TO CITY TRAFFIC ENGINEERING FOR APPROVAL, AND OBTAIN APPROPRIATE PERMITS IN ACCORDANCE WITH THE "TRAFFIC CONTROLS FOR STREET CONSTRUCTION, UTILITY WORK, AND MAINTENANCE OPERATIONS", M.U.T.C.D. SUPPLEMENT FOR THE CITY OF COLORADO SPRINGS, AUGUST 1992.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE TRAFFIC CONTROL. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING AND MAINTAINING THE TEMPORARY TRAFFIC CONTROL DEVICES THROUGHOUT THE DURATION OF THE PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NEW, TEMPORARY AND EXISTING TRAFFIC SIGNAL MODIFICATIONS.
- CONTRACTOR IS TO CONTACT TRAFFIC ENGINEERING TO ARRANGE FOR REMOVAL AND REPLACEMENT OF ANY SIGNS CONFLICTING WITH CONSTRUCTION. CONTRACTORS ARE NOT AUTHORIZED TO MOVE EXISTING TRAFFIC CONTROL SIGNS. ANY SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN DURING CONSTRUCTION, SHALL BE COVERED, BEFORE COVERING THE SIGN, THE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM THE TRAFFIC ENGINEER.

GRADING CONSTRUCTION NOTES:

- ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE "UCCS CAMPUS CONSTRUCTION STANDARDS".
- THE CONTRACTOR ASSUMES RESPONSIBILITY FOR THE PROTECTION OF ALL UTILITIES DURING THE WORK. ANY DAMAGE TO THE EXISTING UTILITIES WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND ANY SERVICE DISRUPTION WILL BE SETTLED BY THE CONTRACTOR. PRIOR TO ANY EXCAVATION, CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 1-800-922-1987 AT LEAST TWO WORKING DAYS PRIOR TO DIGGING.
- CLEARING AND GRUBBING FOR THIS PROJECT WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE WORK. INCLUDED IN THIS WORK IS THE REMOVAL OF ALL VEGETATION AND PLANT MATERIAL. ITEMS DESIGNATED IN THE PLANS TO BE REMOVED UNDER A SPECIFIC ITEM WILL BE MEASURED AND PAID FOR IN ACCORDANCE WITH THE SPECIFICATION FOR THAT ITEM.
- THE CONTRACTOR IS RESPONSIBLE FOR THE RE-ESTABLISHMENT OF ALL SURVEY MONUMENTS DISTURBED WITHIN THE PROJECT LIMITS.
- THE CONTRACTOR SHALL PROTECT ALL WORK AREAS AND FACILITIES FROM FLOODING AT ALL TIMES. AREAS AND FACILITIES SUBJECTED TO FLOODING, REGARDLESS OF THE SOURCE OF WATER, SHALL BE PROMPTLY DEWATERED AND RESTORED.
- THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING AND CONTROLLING EROSION DURING CONSTRUCTION ACTIVITIES AT ALL TIMES DURING GRADING AND CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE THE FOLLOWING EROSION AND SEDIMENT CONTROL MEASURES:
  - STRAW BALE BARRIERS WHERE NEEDED.
  - SILT FENCE WHERE NEEDED.
  - TEMPORARY DETENTION BASINS WHERE NEEDED.
  - MULCHING AND SEEDING OF EXCESSIVE SLOPED AREAS AS NEEDED.
  - TEMPORARY VEHICLE TRACKING CONTROL AS NEEDED.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND AND ABOVE GROUND UTILITIES ALONG THE SITE. THE OMISSION FROM OR THE INCLUSION OF UTILITY LOCATIONS ON THE PLANS IS NOT TO BE CONSIDERED AS THE NONEXISTENCE OF OR A DEFINITE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- CONTRACTOR WILL OBTAIN COPIES OF THE SOILS REPORT FROM THE GEOTECHNICAL ENGINEER AND A COPY WILL BE KEPT ONSITE DURING ALL EARTHWORK OPERATIONS.
- THE SITE SHALL BE STRIPPED A MINIMUM OF 0.5' BELOW EXISTING GRADE.
- MAXIMUM CUT/FILL SLOPES SHALL NOT EXCEED 3:1, UNLESS OTHERWISE NOTED. ALL SLOPES MUST BE PROTECTED FROM EROSION.
- CONTOURS SHOWN ARE FOR FINAL PAVING OR GROUND. ADJUSTMENT TO THE SUBGRADE IS THE CONTRACTORS RESPONSIBILITY.
- ALL DISTURBED AREAS THAT ARE UNSURFACED OR ARE NOT DESIGNATED AS LANDSCAPE AREAS ARE TO BE SEEDED, FERTILIZED, AND WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
- IF DURING THE OVERLOT GRADING PROCESS, CONDITIONS ARE ENCOUNTERED WHICH COULD INDICATE AN UNIDENTIFIED SITUATION IS PRESENT, THE SOILS ENGINEER SHALL BE CONTACTED FOR RECOMMENDATIONS.
- ON-SITE MATERIALS SUITABLE FOR FILL BENEATH DRIVES AND PARKING AREAS SHALL BE COMPACTED IN ACCORDANCE WITH GUIDELINES PRESENTED IN THE SOILS REPORT.
- SPOT ELEVATIONS SHALL TAKE PRECEDENCE OVER CONTOURS AND SLOPES SHOWN. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE SPOT ELEVATIONS THAT DO NOT APPEAR TO BE CONSISTENT WITH THE CONTOURS AND SLOPES. SPOT ELEVATIONS AND SPECIFIC PROFILE DESIGN SHALL BE USED FOR SETTING ELEVATIONS OF CURB, GUTTER, AND UTILITIES.
- BENCHMARK VERIFICATION: CONTRACTOR SHALL USE BENCHMARKS AND DATUMS SHOWN HEREON TO SET PROJECT BENCHMARK(S), BY RUNNING A LEVEL LOOP BETWEEN AT LEAST TWO BENCHMARK, AND SHALL PROVIDE SURVEY NOTES OF SUCH TO PROJECT ENGINEER PRIOR TO COMMENCING CONSTRUCTION.
- ALL UTILITIES (MANHOLES, VALVE COVERS, CLEANOUTS, VAULTS, BOXES, ETC.) SHALL BE ADJUSTED TO FINAL GRADE PRIOR TO THE FINAL LIFT OF ASPHALT.
- ALL EARTH MOVING AND PLACEMENT OPERATIONS SHALL BE IN CONFORMANCE WITH THE RECOMMENDATIONS IDENTIFIED IN THE SOILS REPORT.
- SPOT ELEVATIONS REPRESENT FINISH GRADE UNLESS OTHERWISE NOTED.
- EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
- EXISTING GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT INTERVALS.
- PROPOSED GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT INTERVALS.
- IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITIES AND NOTIFYING THE APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING OF CONSTRUCTION.
- THE CONTRACTOR WILL OBTAIN STATE APPROVAL OF THEIR EPA STORM WATER PERMIT APPLICATION TO INCLUDE A STORM WATER POLLUTION PREVENTION PLAN, PRIOR TO START OF CONSTRUCTION.
- ALL WORK SHALL BE IN CONFORMANCE WITH STATE ADOPTED CODES: 2009 INTERNATIONAL CODES (IBC, IPC, IECC), 2011 NATIONAL ELECTRICAL CODE (NEC), 2003 ICC/ANSI A117.1 ACCESSIBILITY STANDARDS. STATE REFERENCED CODES: 2009 INTERNATIONAL FIRE CODE, 2009 INTERNATIONAL EXISTING BUILDING CODE, 2009 INTERNATIONAL FUEL GAS CODE.

REVISIONS					
NO.	DATE	BY	DESCRIPTION	APPROVED BY:	DATE
2	03/06/12	REP	ADDENDUM #2		

BENCHMARK:  
A #5 REBAR SET AT TOP OF BANK 80 FEET WEST OF THE REAR ACCESS TO UCCS AT THE NORTHEAST CORNER OF THE PROJECT (392.492,31 NORTH 196.341,34 EAST). ELEVATION IS 6276.74. NAVD86 (GEOID 9). A CROSS REFERENCE OF 6247.89 WAS ALSO MADE TO THE FIMS VERTICAL CONTROL MONUMENT "ABV2" BEING A 2 INCH DIAMETER ALUMINUM CAP STAMPED "CSU FIMS CONTROL ABV2" ON THE SOUTH END OF THE HEADWALL ON THE EAST SIDE OF A DRAINAGE TUNNEL UNDER THE OLD RAILROAD. NOTE: THE VERTCON ADJUSTMENT OF NAVD 86 TO NGVD 29 (FIMS) IS 1.108 METERS.



FOR AND ON BEHALF OF  
MATRIX DESIGN GROUP, INC.



UCCS ARENA PARKING LOT			
SITE DEVELOPMENT PLANS			
TITLE SHEET			
DESIGNED BY: REP	SCALE	DATE ISSUED: FEBRUARY 17, 2012	TS1
DRAWN BY: BAS	HORIZ: N/A	SHEET NO. 1 OF 16	
CHECKED BY: REP	VERT: N/A		







ABBREVIATIONS	
A,AMP	AMPERE
AC	ABOVE COUNTER
AF	AMPERE FUSE/FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AL	ALUMINUM
AM	AMMETER
ANN	ANNUNCIATOR
ANT	ANTENNA
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BCST	BROADCAST
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BKR	BREAKER
C	CONDUIT
CAB	CABINET
CAM	CAMERA
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CO	CONDUIT ONLY
COMB	COMBINATION
COMP	COMPUTER
COND	CONDUCTOR
CT	CURRENT TRANSFORMER
CU	COPPER
dB	DECIBEL
DEMARC	DEMARICATION
DISC	DISCONNECT
DL	DAMP LABEL
DWG	DRAWING
DVR	DIGITAL VIDEO RECORDER
EA	EACH
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EG	EQUIPMENT GROUND
EHC	ELECTRIC HEATING COIL
ELEC	ELECTRIC OR ELECTRICAL
ELEV	ELEVATOR
EMERG	EMERGENCY
EMT	ELECTRIC METALLIC TUBING
ENG	ELECTRONIC NEWS GATHERING
EOL	F/A END OF LINE RESISTOR
EQUIP	EQUIPMENT
ER	EXISTING TO BE REMOVED/RELOCATED
EW	ELECTRIC WATER COOLER
EWI	ELECTRIC WATER HEATER
EXH	EXHAUST
EX	EXISTING
F	FUSE
F/A	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
FC	FOOTCANDLES
FDR	FEEDER
FLEX	FLEXIBLE
FLR	FLOOR
FLUOR	FLUORESCENT
GALV	GALVANIZED
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HC	HORIZONTAL CROSS CONNECT
HD	HEAVY DUTY
HH	HAND HOLE
HOA	HAND-OFF-AUTO
HP	HORSEPOWER
HPF	HIGH POWER FACTOR
HPS	HIGH PRESSURE SODIUM
HTR	HEATER
IC	INTERMEDIATE CROSS CONNECT
ID	INSIDE DIAMETER
IDF	INTERMEDIATE DISTRIBUTION FRAME
IMC	INTERMEDIATE GRADE METALLIC CONDUIT
INCAND	INCANDESCENT
J-BOX	JUNCTION BOX
KCMIL	THOUSAND OF CIRCULAR MILLS
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
LA	LIGHTNING ARRESTOR
LAN	LOCAL AREA NETWORK
LFC	LIQUID TIGHT FLEXIBLE CONDUIT
LTG	LIGHTING
LV	LOW VOLTAGE
MA	MILLIAMPERE
MAX	MAXIMUM
MB	MAIN BREAKERS
MC	MECHANICAL CONTRACTOR

ABBREVIATIONS	
MC	MAIN CROSS CONNECT
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MDF	MAIN DISTRIBUTION FRAME
MDP	MAIN DISTRIBUTION PANEL
MECH	MECHANICAL
MFR	MANUFACTURER
MG	MOTOR GENERATOR
MH	MANHOLE OR METAL HALIDE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MOV	MOTOR OPERATED VALVE
MPOE	MAIN POINT OF ENTRY
MTG	MOUNTING HEIGHT
MS	MOTOR STARTER
MSB	MAIN SWITCHBOARD
MTB	MAIN TERMINAL BOARD
MTD	MOUNTED
MTG	MOUNTING
MTGB	MAIN TELECOMMUNICATIONS GROUND BUS
MV	MEDIUM VOLTAGE
N	NEUTRAL
NEC	NATIONAL ELECTRICAL CODE
NF	NON FUSED
NIC	NOT IN CONTRACT
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
P	POLE
PA	PUBLIC ADDRESS
PB	PUSH BUTTON
PBX	PRIVATE BRANCH EXCHANGE
PE	PHOTOELECTRIC
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PR	PAIR
PRI	PRIMARY
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
PWR	POWER
QR	QUARTZ RESTRIKE
R	REMOVE
REC	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SCP	SECURITY CONTROL PANEL
SEC	SECONDARY/SECOND
SECT	SECTION
SHT	SHEET
SMPOE	SECONDARY MAIN POINT OF ENTRY
SP	SERVICE PROVIDER
SPD	SURGE PROTECTIVE DEVICE
SPDT	SINGLE POLE, DOUBLE THROW
ST	SHUNT TRIP
STD	STANDARD
SW	SWITCH
SWBD	SWITCHBOARD
T	TWIST LOCK
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TC	TIME CLOCK
TTC	TELEPHONE TERMINAL CABINET OR CLOSET
TTB	TELEPHONE TERMINAL BOARD
TEL	TELEPHONE
TELCO	TELEPHONE COMPANY
TELCOM	TELECOMMUNICATIONS
TEMP	TEMPERATURE
TGB	TELECOMMUNICATIONS GROUND BUS
TR	TAMPER RESISTANT
UC	UNDER COUNTER
U/G	UNDER GROUND
UH	UNIT HEATER
UL	UNDERWRITER LABORATORIES
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
V	VOLT
VFD	VARIABLE FREQUENCY DRIVE
VM	VOLTMETER
W	WATT
W/	WITH
WH	WATT HOUR
WHM	WATT HOUR METER
WLAN	WIRELESS-LOCAL AREA NETWORK
WP	WEATHERPROOF
WPL	WEATHER PROOF LOCKABLE ENCLOSURE
WT	WATERTIGHT
XFMR	TRANSFORMER
XP	EXPLOSION PROOF

NOTES:

- ALL EXPOSED RACEWAYS ARE TO BE INSTALLED PARALLEL OR PERPENDICULAR TO WALLS OR STRUCTURAL MEMBERS SUCH THAT THEY FOLLOW STRUCTURAL SURFACE CONTOURS AND SHALL BE INSTALLED SUCH THAT THEY DO NOT OBSTRUCT PASSAGeways OR ACCESS TO EQUIPMENT. MULTIPLE RACEWAYS SHOULD BE INSTALLED GROUPEd TOGETHER. THE LOCATION OF PUBLICLY VISIBLE RACEWAYS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. (EXTRA TIME SHOULD BE ALLOWED FOR THIS REVIEW AND APPROVAL.)
- THE DISCONNECTING MEANS FOR ALL MECHANICAL EQUIPMENT SHALL BE ACCESSIBLE AND HAVE THE CLEARANCE IN FRONT AS REQUIRED BY NEC AMENDMENTS.
- ALL CEILING ATTACHED OBJECTS AND FLOOR ATTACHED EQUIPMENT INCLUDING BUT NOT LIMITED TO PENDANT LIGHTING FIXTURES, GENERAL LIGHTING, MULTIPLE RACEWAYS, GENERATOR, TRANSFORMER ELECTRICAL SWITCHGEAR, AND SWITCHBOARDS SHALL BE INSTALLED IN ACCORDANCE WITH SUPPORTING OBJECTS FOR SEISMIC ZONE AS REQUIRED BY STATE AND LOCAL CODES.
- ALL SWITCHGEAR, SWITCHBOARDS AND TRANSFORMERS SHALL HAVE A 4 INCH HOUSE KEEPING PAD. UNDER NO CONDITION SHALL THE HIGHEST SWITCH OR BREAKER EXCEED 6'-6" AFF.
- DATA GIVEN ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED. ABSOLUTE ACCURACY IS NOT GUARANTEED AND THE CONTRACTOR SHALL OBTAIN AND VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, POTENTIAL CONFLICTS WITH OTHER TRADES, ETC. AT THE SITE AND SHALL SATISFACTORILY ADAPT HIS WORK TO ACTUAL CONDITIONS AT THE BUILDINGS. THE DRAWINGS ARE DIAGRAMMATICAL IN NATURE AND SHALL NOT BE SCALED. HOWEVER THIS DOES NOT RELIEVE ANY SUB-CONTRACTOR FROM COORDINATING HIS WORK WITH ALL OTHER TRADES AND FROM ADJUSTING HIS WORK AS REQUIRED BY THE ACTUAL CONDITIONS OF THE PROJECT. THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING COSTS TO BECOME THOROUGHLY FAMILIAR WITH THE ACTUAL CONDITIONS OF THE PROJECT.
- COORDINATE AND ADJUST ALL WORK BETWEEN TRADES AND EXISTING CONDITIONS IN ORDER TO ACCOMPLISH A NEAT, INTEGRATED AND EFFICIENT INSTALLATION WHICH INCLUDE BUT ARE NOT LIMITED TO:
  - EXAMINE THE CONTRACT DOCUMENTS OF ALL TRADES (I.E. THE ARCHITECTURAL REFLECTED CEILING PLAN, MECHANICAL HVAC DRAWINGS, ELECTRICAL LIGHTING PLAN, FIRE PROTECTION PLAN, ETC.).
  - COORDINATE NECESSARY EQUIPMENT, FIXTURES, ETC. SO THAT THE FINAL INSTALLATION IS COMPATIBLE WITH THE MATERIALS AND EQUIPMENT OF THE OTHER TRADES.
  - THIS CONTRACTOR SHALL ASSIST THE DIVISION 15 CONTRACTOR IN PREPARING SHOP DRAWINGS FOR COORDINATING INSTALLATION OF ALL WORK (I.E. LOCATING ALL LIGHTING FIXTURES IN CEILING WITH CEILING CLEARANCES, RACEWAYS, PIPING, EQUIPMENT FOR CLEARANCE THROUGHOUT).
  - THE ELECTRICAL DRAWINGS INDICATE THE ELECTRICAL REQUIREMENTS FOR A SIGNIFICANT PORTION OF THE MECHANICAL AND PLUMBING SYSTEMS. ADDITIONAL MECHANICAL AND PLUMBING EQUIPMENT IS INDICATED ON THE DIVISION 15 DRAWINGS. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. PROVIDE COMPLETE WIRING AND FUSIBLE DISCONNECTING MEANS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT.
- DEFINITIONS:
  - "FURNISH" MEANS TO "SUPPLY" AND USUALLY REFERS TO AN ITEM OF EQUIPMENT.
  - "INSTALL" MEANS TO "SET IN PLACE, CONNECT AND PLACE IN FULL OPERATIONAL ORDER".
  - "PROVIDE" MEANS TO "FURNISH AND INSTALL".
  - "EQUIVALENT" MEANS "MEETS THE SPECIFICATIONS OF THE REFERENCE PRODUCT OR ITEM IN ALL SIGNIFICANT ASPECTS." SIGNIFICANT ASPECTS SHALL BE DETERMINED BY THE ENGINEER.
  - "RE-\_\_\_\_\_ DIVISION", AND SIMILAR EXPRESSIONS MEANS WORK TO BE PERFORMED UNDER THE CONTRACT DOCUMENTS, BUT NOT NECESSARILY UNDER THE DIVISION OR SECTION OF THE WORK ON WHICH THE NOTE APPEARS. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO COORDINATE THE WORK OF THE CONTRACT BETWEEN HIS/HER SUPPLIERS, SUBCONTRACTORS, AND EMPLOYEES. IF CLARIFICATION IS REQUIRED, CONSULT ARCHITECT.
- "FIRESSTOPPING" REQUIREMENT: ALL PENETRATIONS THROUGH RATED WALLS AND FLOORS SHALL BE SEALED WITH MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASSES WHEN SUBJECTED TO THE REQUIREMENTS OF THE TEST STANDARD SPECIFIC FOR FIRE STOPS ASTM-E-814. ALL PENETRATIONS SHALL MEET F AND T RATINGS AS REQUIRED BY THE BUILDING CODE.
- WHERE DISCONNECTS ARE INDICATED ON DRAWINGS CONTRACTOR SHALL PROVIDE FINAL CONNECTION TO EQUIPMENT BEING SERVED BY DISCONNECT.
- CONTRACTOR PROVIDE ALL MISCELLANEOUS SUPPORTS AS REQUIRED FOR A COMPLETE OPERABLE ELECTRICAL INSTALLATION INCLUDING MISCELLANEOUS STEEL, UNI-STRUT, ALL-THREAD, AIRCRAFT CABLE, ETC.

DUPLEX RECEPTACLE W/ WP IN-USE COVER

BRANCH CIRCUIT OR POWER PANEL

POLE MOUNTED LUMINAIRE WITH ARM

BRANCH CIRCUIT HOMERUN TO PANELBOARD, NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS, NUMERAL INDICATES CIRCUIT NUMBER.

UNDERGROUND FEEDER

UNDERGROUND BRANCH CIRCUIT HOMERUN

CONDUIT UP

CONDUIT DOWN

CONDUIT RUNS UNDERFLOOR OR BELOW GRADE

UCCS-Parking Lot

240/120

1Phase,3Wire + Gnd

22K AIC

M-E Engineers Inc.

BUS: 150 Amps

Copper

MARKS: 150 Amp Main Bkr

PANEL: PL1

SECTION: 1 OF 1

LOCATION:

DATE: 03/06/12

FED FROM:

MOUNTING: Pad on Floor

ISSUE: Addendum 2

NOTES:

OPTIONAL: Feed Thru Lugs

N	ID	DESCRIPTION	V/A	P	BKR	CKT	PH	CKT	BKR	P	V/A	DESCRIPTION	ID	N
L		TRAIL LIGHTING	210	2	20	1	A	2	20	2	210	TRAIL LIGHTING	L	
L		----	210	<		3	B	4		>	210	----	L	
L		TRAIL LIGHTING	315	2	20	5	A	8	20	2	620	PARKING LOT LIGHTING	L	
L		----	315	<		7	B	8		>	620	----	L	
L		TRAIL LIGHTING	315	2	20	9	A	10	20	2	620	PARKING LOT LIGHTING	L	
L		----	315	<		11	B	12		>	620	----	L	
L		TRAIL LIGHTING	525	2	20	13	A	14	20	2	620	PARKING LOT LIGHTING	L	
L		----	525	<		15	B	16		>	620	----	L	
R		BUS HEATER	1500	1	20	17	A	18	20	2	620	PARKING LOT LIGHTING	L	
R		BUS HEATER	1500	1	20	19	B	20		>	620	----	L	
R		BUS HEATER	1500	1	20	21	A	22	20	2	775	PARKING LOT LIGHTING	L	
R		BUS HEATER	1500	1	20	23	B	24		>	775	----	L	
R		BUS HEATER	1500	1	20	25	A	26	20	2	620	PARKING LOT LIGHTING	L	
R		BUS HEATER	1500	1	20	27	B	28		>	620	----	L	
R		BUS HEATER	1500	1	20	29	A	30	20	2	620	PARKING LOT LIGHTING	L	
R		BUS HEATER	1500	1	20	31	B	32		>	620	----	L	
P		--SPARE--		1	20	33	A	34	20	2	465	PARKING LOT LIGHTING	L	
P		--SPARE--		1	20	35	B	36		>	465	----	L	
P		--SPARE--		1	20	37	A	38	20	1	500	CODE BLUE LIGHT	X	
P		--SPARE--		1	20	39	B	40	20	1	500	CODE BLUE LIGHT	X	
R		RECPT PANEL PL1	180	1	20	41	A	42	20	1	500	CODE BLUE LIGHT	X	

BOOK JTS

CONNECTED (Downstream Loads Included)	TOTALS	LOAD SUMMARY WITH DOWNTHEM LOADS INCLUDED					
PHASE	A-B	CATEGORY	CONNECTED	FACTORS	CALCD V/A	AMPS @ 240V/120 VOLTS	
V/A	12715-13038	28,750	LIGHTING	13,070	125%	16,338	68
AMPS	57-54	111	RECEPT	12,180	100%	10,000	42
DOWNTHEM LOADS			RECEPT		80%	1,060	5
			MOTOR		100%		
			DISSET MTR		25%		
			MISC	1,500	100%	1,500	6
			KITCHEN		100%		
			ELEC HEAT		100%		
			HEAT				
CONDUCTOR COLORS (EC TO LABEL IN PANEL)							
PH	A: BLACK						
	B: RED						
	N: WHITE						
	G: GREEN						
		TOTAL	26,750			28,628	121

PANEL SCHEDULE

PL1  
SCALE: NONE

REVISIONS				
NO.	DATE	BY	DESCRIPTION	APPROVED BY:
ADD2	03/06/12	APS	ADDENDUM #2 UPDATES	



FOR AND ON BEHALF OF  
MATRIX DESIGN GROUP, INC.



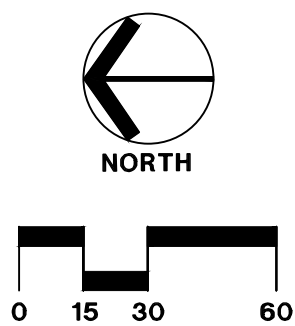
UCCS ARENA PARKING LOT

LIGHTING LEGEND/NOTES

DESIGNED BY: APS	SCALE	DATE ISSUED: FEBRUARY 17, 2012
DRAWN BY: APS	HORIZ: N/A	SHEET NO. 12 OF 16
CHECKED BY:	VERT: N/A	

L00

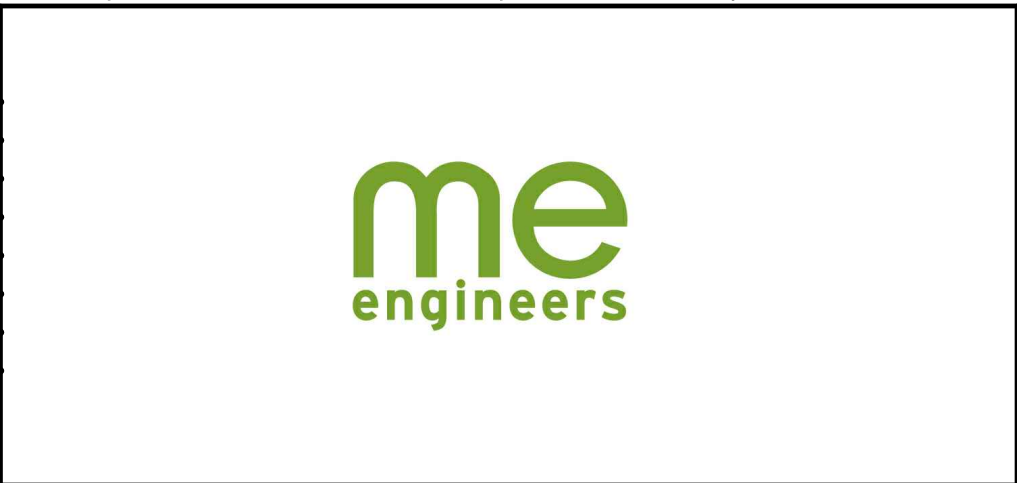




- 1 PL1:17 (2#10,1#10G)3/4"C
- 2 PL1:19 (2#10,1#10G)3/4"C
- 3 PL1:21 (2#10,1#10G)3/4"C
- 4 PL1:23 (2#10,1#10G)3/4"C
- 5 PL1:25 (2#10,1#10G)3/4"C
- 6 PL1:27 (2#10,1#10G)3/4"C
- 7 PL1:29 (2#10,1#10G)3/4"C
- 8 PL1:31 (2#10,1#10G)3/4"C
- 9 (4)3/4"C
- 10 CODE BLUE LIGHT PL1:38 (2#10,1#10G)3/4"C
- 11 CODE BLUE LIGHT PL1:40 (2#10,1#10G)3/4"C
- 12 CODE BLUE LIGHT PL1:42 (2#10,1#10G)3/4"C



REVISIONS					
NO.	DATE	BY	DESCRIPTION	APPROVED BY:	DATE
ADD2	03/06/12	APS	ADDENDUM #2 UPDATES		



FOR AND ON BEHALF OF  
MATRIX DESIGN GROUP, INC.

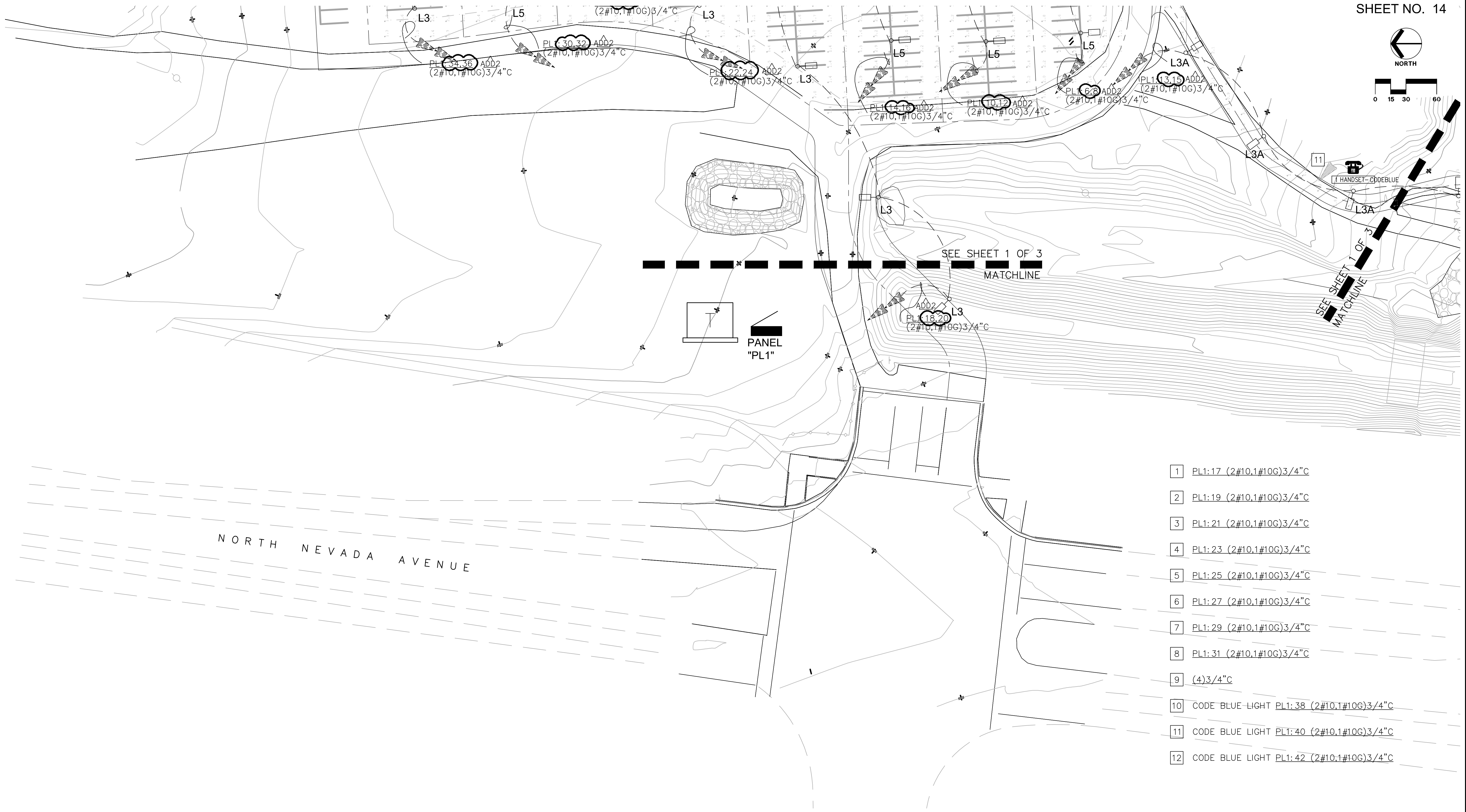
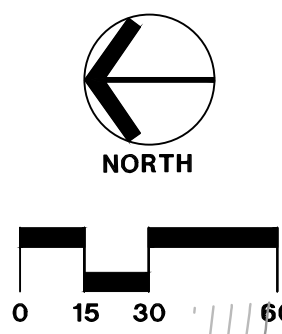


UCCS ARENA PARKING LOT

LIGHTING LAYOUT – PARKING LOT

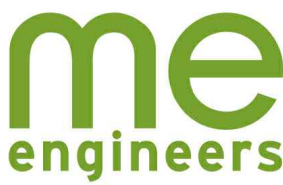
DESIGNED BY: APS	SCALE	DATE ISSUED: FEBRUARY 17, 2012	L01
DRAWN BY: APS	HORIZ: 1" = 30'	SHEET NO. 13 OF 16	
CHECKED BY:	VERT: N/A		





- 1 PL1:17 (2#10,1#10G)3/4"C
- 2 PL1:19 (2#10,1#10G)3/4"C
- 3 PL1:21 (2#10,1#10G)3/4"C
- 4 PL1:23 (2#10,1#10G)3/4"C
- 5 PL1:25 (2#10,1#10G)3/4"C
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- 7 PL1:29 (2#10,1#10G)3/4"C
- 8 PL1:31 (2#10,1#10G)3/4"C
- 9 (4)3/4"C
- 10 CODE BLUE-LIGHT PL1:38 (2#10,1#10G)3/4"C
- 11 CODE BLUE LIGHT PL1:40 (2#10,1#10G)3/4"C
- 12 CODE BLUE LIGHT PL1:42 (2#10,1#10G)3/4"C

REVISIONS					
NO.	DATE	BY	DESCRIPTION	APPROVED BY:	DATE
ADD2	03/06/12	APS	ADDENDUM #2 UPDATES		



FOR AND ON BEHALF OF  
MATRIX DESIGN GROUP, INC.



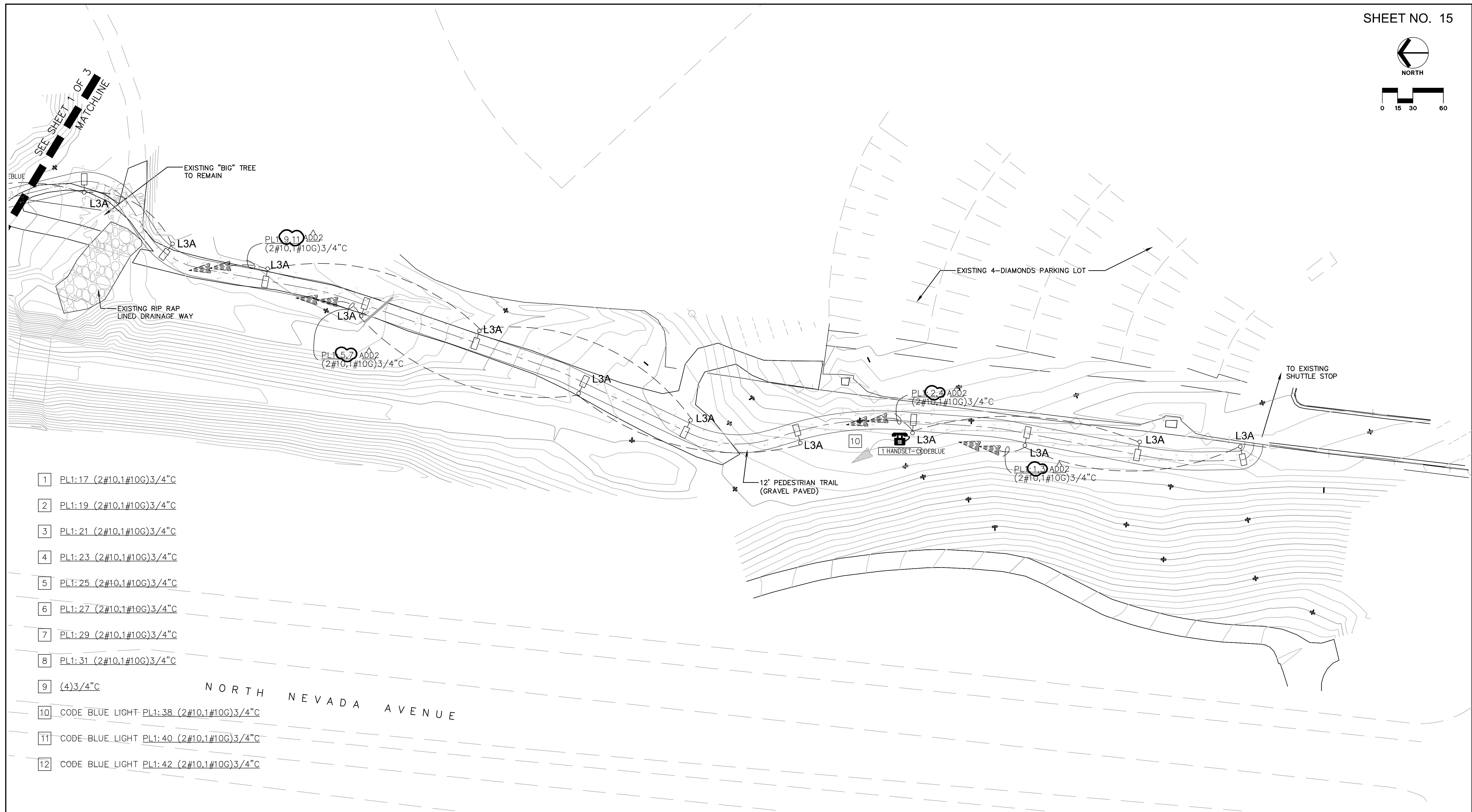
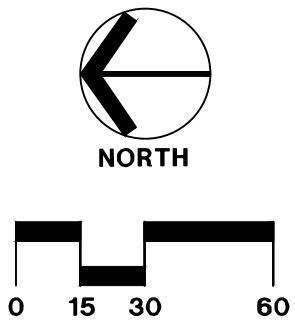
UCCS ARENA PARKING LOT

LIGHTING LAYOUT – ENTRANCE

DESIGNED BY: APS	SCALE	DATE ISSUED: FEBRUARY 17, 2012
DRAWN BY: APS	HORIZ: 1" = 30'	SHEET NO. 14 OF 16
CHECKED BY:	VERT: N/A	

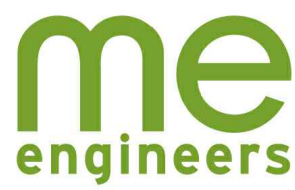
L02





- 1 PL1:17 (2#10.1#10G)3/4"C
- 2 PL1:19 (2#10.1#10G)3/4"C
- 3 PL1:21 (2#10.1#10G)3/4"C
- 4 PL1:23 (2#10.1#10G)3/4"C
- 5 PL1:25 (2#10.1#10G)3/4"C
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- 7 PL1:29 (2#10.1#10G)3/4"C
- 8 PL1:31 (2#10.1#10G)3/4"C
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- 10 CODE BLUE LIGHT PL1:38 (2#10.1#10G)3/4"C
- 11 CODE BLUE LIGHT PL1:40 (2#10.1#10G)3/4"C
- 12 CODE BLUE LIGHT PL1:42 (2#10.1#10G)3/4"C

REVISIONS					
NO.	DATE	BY	DESCRIPTION	APPROVED BY:	DATE
ADD2	03/06/12	APS	ADDENDUM #2 UPDATES		



FOR AND ON BEHALF OF  
MATRIX DESIGN GROUP, INC.



UCCS ARENA PARKING LOT			
LIGHTING LAYOUT – PEDESTRIAN TRAIL			
DESIGNED BY: APS	SCALE	DATE ISSUED: FEBRUARY 17, 2012	L03
DRAWN BY: APS	HORIZ: 1" = 30'	SHEET NO. 15 OF 16	
CHECKED BY:	VERT: N/A		



[illegible]

DESIGNED BY: APS	SCALE	DATE ISSUED: <b>FEBRUARY 17, 2012</b>
DRAWN BY: APS	HORIZ: N/A	SHEET NO. 16 OF 16
CHECKED BY:	VERT: N/A	

\_04