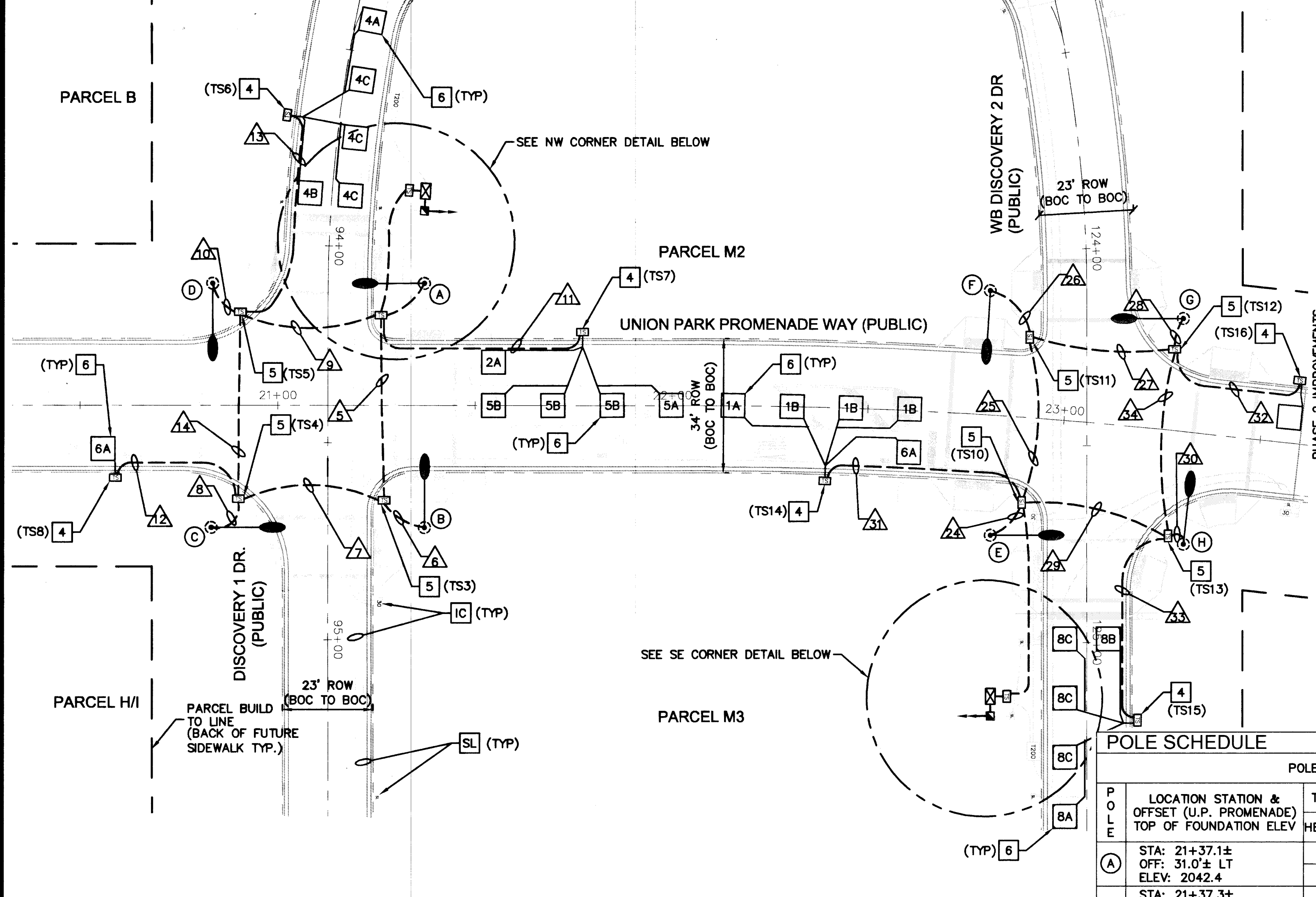


Notes: November 29, 2007 9:10am User: ross.dunlop@cityoflasvegas.com Date: 11/29/07 9:10am
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CONDUIT AND WIRE SCHEDULE																																					
WIRE & CABLE	FROM	TO	CONDUIT																																		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
EB DISCOVERY DR - UNION PARK PROMENADE WAY																																					
3-#3/0	SERVICE POINT	SERVICE PEDESTAL 4	•																																		
4-#4 AWG THW 1-#8	SERVICE PEDESTAL 4	CONTROLLER 4 CABINET	•																																		
2-#10, 1-#8	CONTROLLER 4 CABINET	POLE A			•	•	•																														
2-#10, 1-#8	CONTROLLER 4 CABINET	POLE B			•	•		•	•																												
2-#10, 1-#8	CONTROLLER 4 CABINET	POLE C			•	•		•		•	•																										
2-#10, 1-#8	CONTROLLER 4 CABINET	POLE D			•	•				•	•																										
1-#8	CONTROLLER 4 CABINET	NORTH LEG LOOP PULL BOX			•	•						•																									
1-#8	CONTROLLER 4 CABINET	SOUTH LEG LOOP PULL BOX			•	•		•		•			•																								
1-#8	CONTROLLER 4 CABINET	WEST LEG LOOP PULL BOX			•	•				•				•																							
WB DISCOVERY DR - UNION PARK PROMENADE WAY																																					
3-#3/0	SERVICE POINT	SERVICE PEDESTAL 5																																	•		
4-#4 AWG THW 1-#8	SERVICE PEDESTAL 5	CONTROLLER 5 CABINET																																	•		
2-#10, 1-#8	CONTROLLER 5 CABINET	POLE E																																	•	•	•
2-#10, 1-#8	CONTROLLER 5 CABINET	POLE F																																	•	•	
2-#10, 1-#8	CONTROLLER 5 CABINET	POLE G																																	•	•	•
2-#10, 1-#8	CONTROLLER 5 CABINET	POLE H																																	•	•	
1-#8	CONTROLLER 5 CABINET	SOUTH LEG LOOP PULL BOX																																	•	•	
1-#8	CONTROLLER 5 CABINET	NORTH LEG LOOP PULL BOX																																	•	•	
1-#8	CONTROLLER 5 CABINET	EAST LEG LOOP PULL BOX																																•	•		
PULL ROPE	(NUMBER AS SHOWN)		-	1	5	5	1	3	1	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2		
TRACE WIRE(1-#8)	(NUMBER AS SHOWN)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2		
CONDUIT SIZE:																																					
(N) - NEW																																					

BASIS OF BEARING
NORTH 03°50'03" WEST, BEING THE BEARING OF A PORTION OF THE CENTERLINE OF GRAND CENTRAL PARKWAY, AS SHOWN ON BOOK 43, PAGE 61 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

BENCHMARK
CITY OF LAS VEGAS VERTICAL CONTROL POINT "01V01 33E6", BEING A RIVET AND PLATE IN TOP OF CURB AT NW CORNER OF BONNEVILLE AVENUE & GRAND CENTRAL PARKWAY.

ELEVATION: 2036.09 (FEET)
620.6014 (METERS)
CITY OF LAS VEGAS VERTICAL CONTROL v.2002 BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

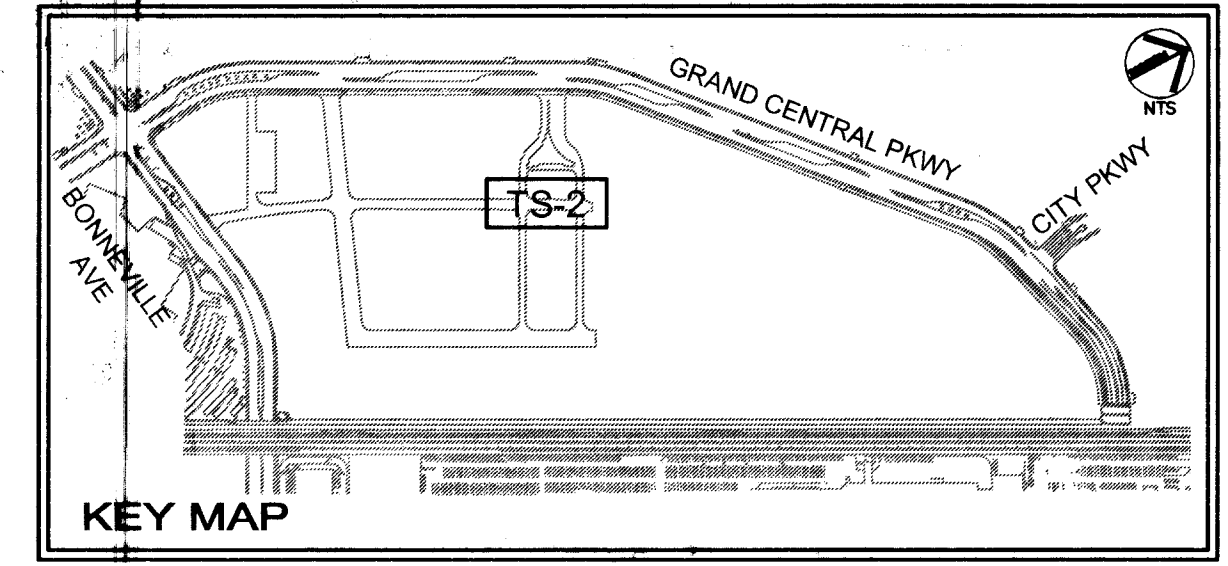
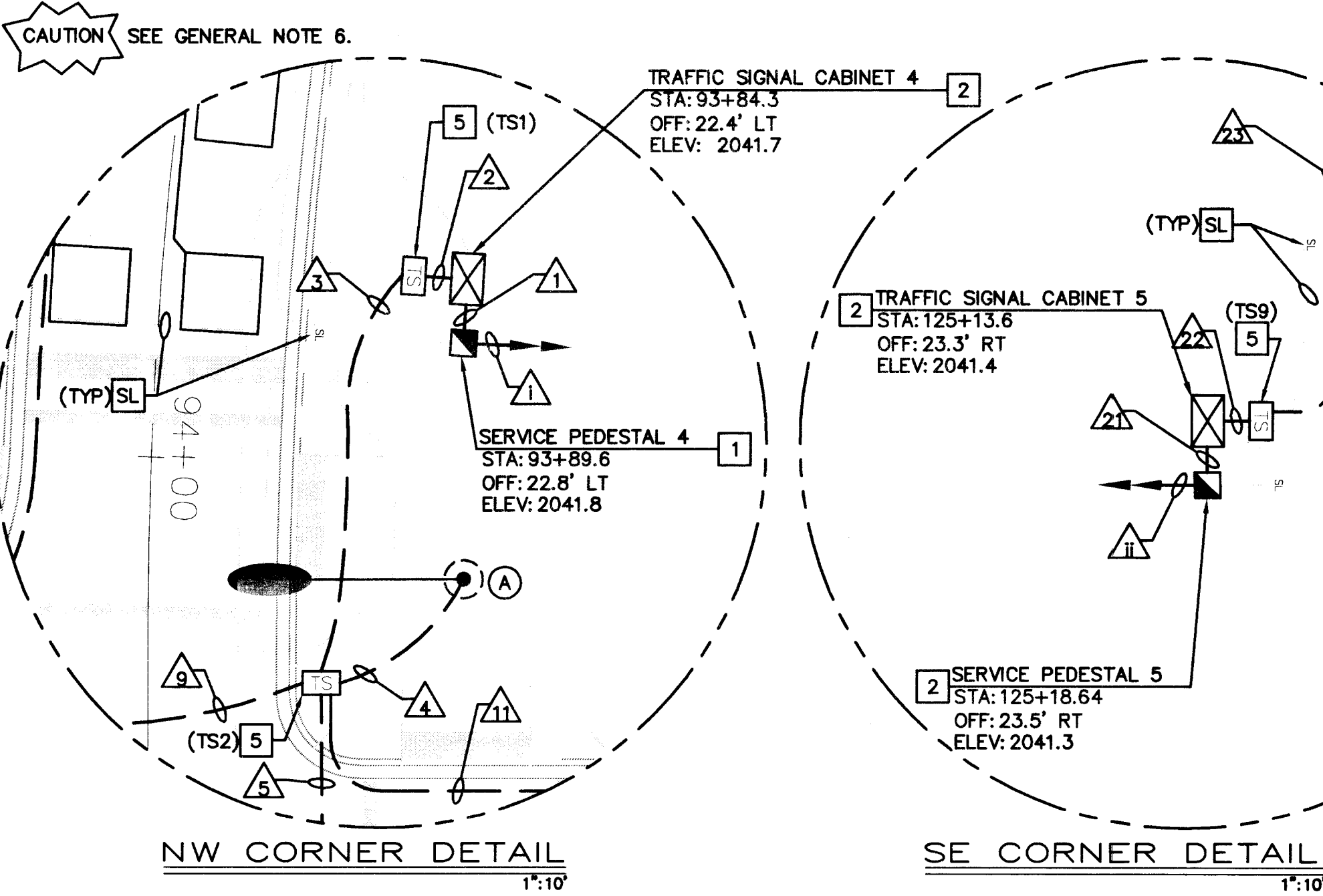
PULL BOX SCHEDULE				
PULL BOX	REFERENCE ST.	STATION / OFFSET	ELEV.	TYPE
(TS1)	DISCOVERY 1 DR	STA 93+84.3 / 18.6' LT	2041.6	#7
(TS2)	PROMENADE WAY	STA 21+26.1 / 22.0' LT	2042.3	#7
(TS3)	PROMENADE WAY	STA 21+27.0 / 23.1' RT	2042.3	#7
(TS4)	PROMENADE WAY	STA 20+90.1 / 22.8' RT	2042.5	#7
(TS5)	PROMENADE WAY	STA 20+90.5 / 22.8' LT	2042.5	#7
(TS6)	DISCOVERY 1 DR	STA 93+68.3 / 12.4' RT	2041.7	#3 1/2
(TS7)	PROMENADE WAY	STA 21+77.2 / 17.8' LT	2042.0	#3 1/2
(TS8)	PROMENADE WAY	STA 20+59.0 / 17.4' RT	2042.8	#3 1/2
(TS9)	DISCOVERY 2 DR	STA 125+13.6 / 19.4' RT	2041.3	#7
(TS10)	DISCOVERY 2 DR	STA 124+64.4 / 15.6' RT	2041.7	#7
(TS11)	DISCOVERY 2 DR	STA 124+22.5 / 13.6' RT	2042.3	#7
(TS12)	PROMENADE WAY	STA 23+26.2 / 19.6' LT	2042.0	#7
(TS13)	DISCOVERY 2 DR	STA 124+72.9 / 19.8' LT	2042.3	#7
(TS14)	PROMENADE WAY	STA 22+39.5 / 17.7' RT	2041.4	#3 1/2
(TS15)	DISCOVERY 2 DR	STA 125+18.3 / 12.8' LT	2041.8	#3 1/2
(TS16)	PROMENADE WAY	STA 23+58.2 / 15.1' LT	2042.1	#3 1/2

CAUTION SEE GENERAL NOTE 7.

POLE SCHEDULE									
POLE	LOCATION STATION & OFFSET (U.P. PROMENADE) TOP OF FOUNDATION ELEV	TYPE	FOUND.	MAST ARM		LUMINAIRE		VEHICLE	
				QUAD	LENGTH	QUAD	LENGTH	TYPE	QUAD
(A)	STA: 21+37.1± OFF: 31.0'± LT ELEV: 2042.4	XX	"H"	-	-	4	15'	-	-
(B)	STA: 21+37.3± OFF: 31.0'± RT ELEV: 2042.4	XX	"H"	-	-	1	15'	-	-
(C)	STA: 20+83.2± OFF: 31.0'± RT ELEV: 2042.7	XX	"H"	-	-	2	15'	-	-
(D)	STA: 20+83.5± OFF: 31.0'± LT ELEV: 2042.7	XX	"H"	-	-	3	15'	-	-
(E)	STA: 22+83.3± OFF: 30.5'± RT ELEV: 2041.8	XX	"H"	-	-	2	15'	-	-
(F)	STA: 22+79.2± OFF: 31.5'± LT ELEV: 2041.8	XX	"H"	-	-	3	15'	-	-
(G)	STA: 23+27.4± OFF: 28.5'± LT ELEV: 2042.2	XX	"H"	-	-	4	15'	-	-
(H)	STA: 23+33.5± OFF: 28.5'± RT ELEV: 2042.2	XX	"H"	-	-	1	15'	-	-

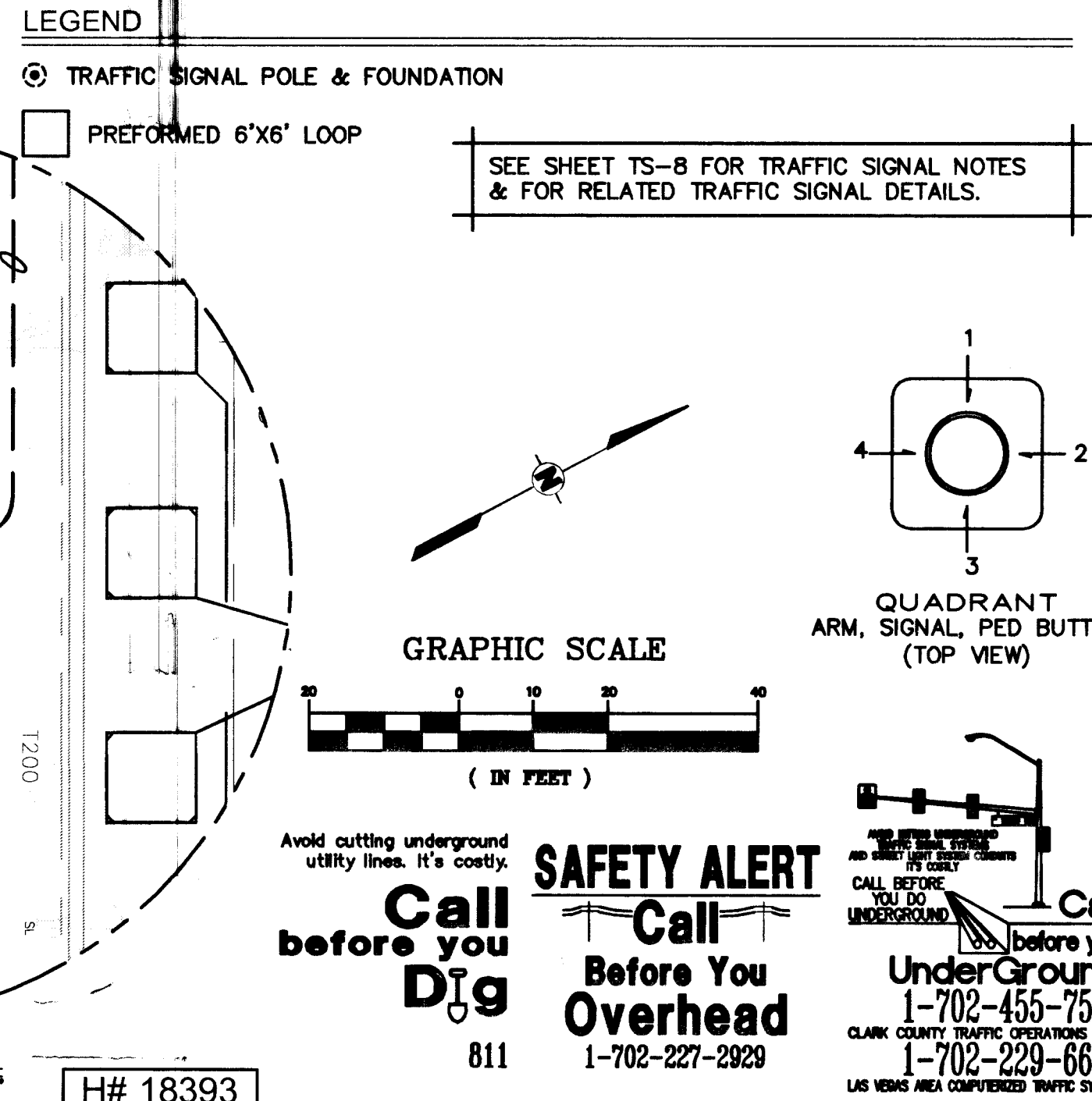
NOTE: TRAFFIC SIGNAL LUMINAIRES SHALL BE CENTENNIAL TYPE

CAUTION SEE GENERAL NOTE 6.



- CONSTRUCTION NOTES**
- FURNISH AND INSTALL 200 AMP 120/240 VAC SERVICE PEDESTAL ONTO CONCRETE FOUNDATION PER CCAUSD No. 404.214. PROVIDE THE FOLLOWING EQUIPMENT:
(1) EACH, 60 AMP, 2P (STREET LIGHTING A & B) CKT BKR(S)
(1) EACH, 15 AMP, 1P (STREET LIGHTING) PHOTO ELECTRIC
(1) EACH, 60 AMP, (STREET LIGHTING) CONTACTOR
(1) BY-PASS SWITCH PER CONTACTOR
(1) EACH, 60 AMP, 1P (TRAFFIC SIGNAL) CKT BKR
(1) EACH, 40 AMP, 1P (INTERSECTION LIGHTING) CKT BKR
(1) #2 AWG 7 STRAND BARE COPPER GROUNDING CONDUCTOR TO EARTH
 - CONTACT NEVADA POWER FOR SERVICE CONNECTION. CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT FOR SERVICE CONNECTION PER NEVADA POWER SPECIFICATIONS, INCLUDING CONDUIT AND CONDUCTORS TO TRANSFORMER. PROVIDE ADDITIONAL 2" CONDUIT STUB FROM FOUNDATION FOR FUTURE USE. INDICATE LOCATION OF CONDUIT STUB ON AS BUILT DRAWINGS. FOR THE SERVICE CONNECTION BETWEEN THE TRANSFORMER AND THE SERVICE PEDESTAL, THE CONDUCTORS SHALL BE THREE (3) EACH - #3/0 AWG, 600 VOLT, STANDARD, COPPER WIRE WITH THW-2 OR XHHW-2 INSULATION.
 - FURNISH AND INSTALL TYPE VII "R" CABINET AND FOUNDATION (SEE CLV TRAFFIC SIGNAL NOTES, SHEET TS-8).
 - FURNISH AND INSTALL 400 WATT HIGH PRESSURE SODIUM INTERSECTION LIGHTING (CENTENNIAL HEAD).
 - FURNISH AND INSTALL No. 3 1/2 PULL BOX MARKED "TRAFFIC SIGNAL" PER CCAUSD STD DWG No. 404.110 AND 404.140 AND LOOP PULL BOX DETAIL (SEE SHEET TS-8).
 - FURNISH AND INSTALL No. 7 PULL BOX MARKED "TRAFFIC SIGNAL" PER CCAUSD STD DWG No. 404.130 AND 404.140.
 - FURNISH AND INSTALL 6"x6" PREFORMED MULTIPLE LOOP SYSTEM PER CLV STANDARD LOOP DETAILS (SEE SHEET TS-8).
 - INTERCONNECT (SEE SL SHEETS FOR PLANS AND DETAILS)
 - STREET LIGHT (SEE SL SHEETS FOR PLANS AND DETAILS)

- GENERAL NOTES**
- CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTING SIGNAL POLE FOUNDATION.
 - CONTRACTOR SHALL INSTALL RED MARKING TAPE ABOVE ALL PROPOSED CONDUITS, 18" BELOW GRADE.
 - CONTRACTOR SHALL VERIFY ALL UTILITY CONFLICTS AND OBSTACLES PRIOR TO TRENCHING.
 - CONTRACTOR TO COORDINATE LOCATIONS OF PROPOSED PULL BOXES TO BE ADJACENT TO CURB JOINTS AND SCORING PATTERN LINES.
 - ALL TRAFFIC SIGNAL EQUIPMENT SHALL BE RAL 6012 IN COLOR PER PROJECT SPECIAL PROVISIONS.
 - ALL POLE LOCATIONS AND FOUNDATION ELEVATIONS SHALL BE APPROVED BY ENGINEER BEFORE CONSTRUCTION IS STARTED OR POLES ARE ORDERED. ALL ELEVATIONS ARE TO TOP OF FOUNDATION UNLESS NOTED OTHERWISE. SEE STATION AND OFFSET REFERENCE DETAILS ON SHEET TS-8.
 - SITE CONDITIONS MAY REQUIRE RELOCATION OR ADJUSTMENT OF PULL BOX LOCATIONS. ALL RELOCATION SHALL BE APPROVED BY ENGINEER AND INCIDENTAL TO THE CONTRACT. SEE STATION, OFFSET AND ELEVATION REFERENCE DETAILS ON SHEET TS-8.
 - CONTRACTOR SHALL REVIEW LANDSCAPE PLAN TO AVOID LOCATING CONDUIT RUNS AND PULL BOX IN CONFLICT WITH FUTURE LANDSCAPE IMPROVEMENTS.



DEPARTMENT OF PUBLIC WORKS

UNION PARK PHASE 1

SIGNAL INSTALLATION PLAN
DISCOVERY DR & UNION PARK PROMENADE WAY

TS-2

11-30-07

107V4816

H# 18393

Kimley-Horn and Associates, Inc.

Engineering, Planning, and Environmental Consultants

2080 East Flamingo Road Suite 210
Las Vegas, Nevada 89119

TELE No. (702) 734-5666
FAX No. (702) 735-4949

PROJECT: UNION PARK PHASE 1

SHEET: TS-2

DATE: November 2007

DESIGNED BY: PAB

CHECKED BY: DDW

SCALE (H): 1"=20'

SCALE (V): N/A

DRAWN BY: KHA

BY:

REV:

DATE:

REVISION:

092587003 - UNION PARK PHASE