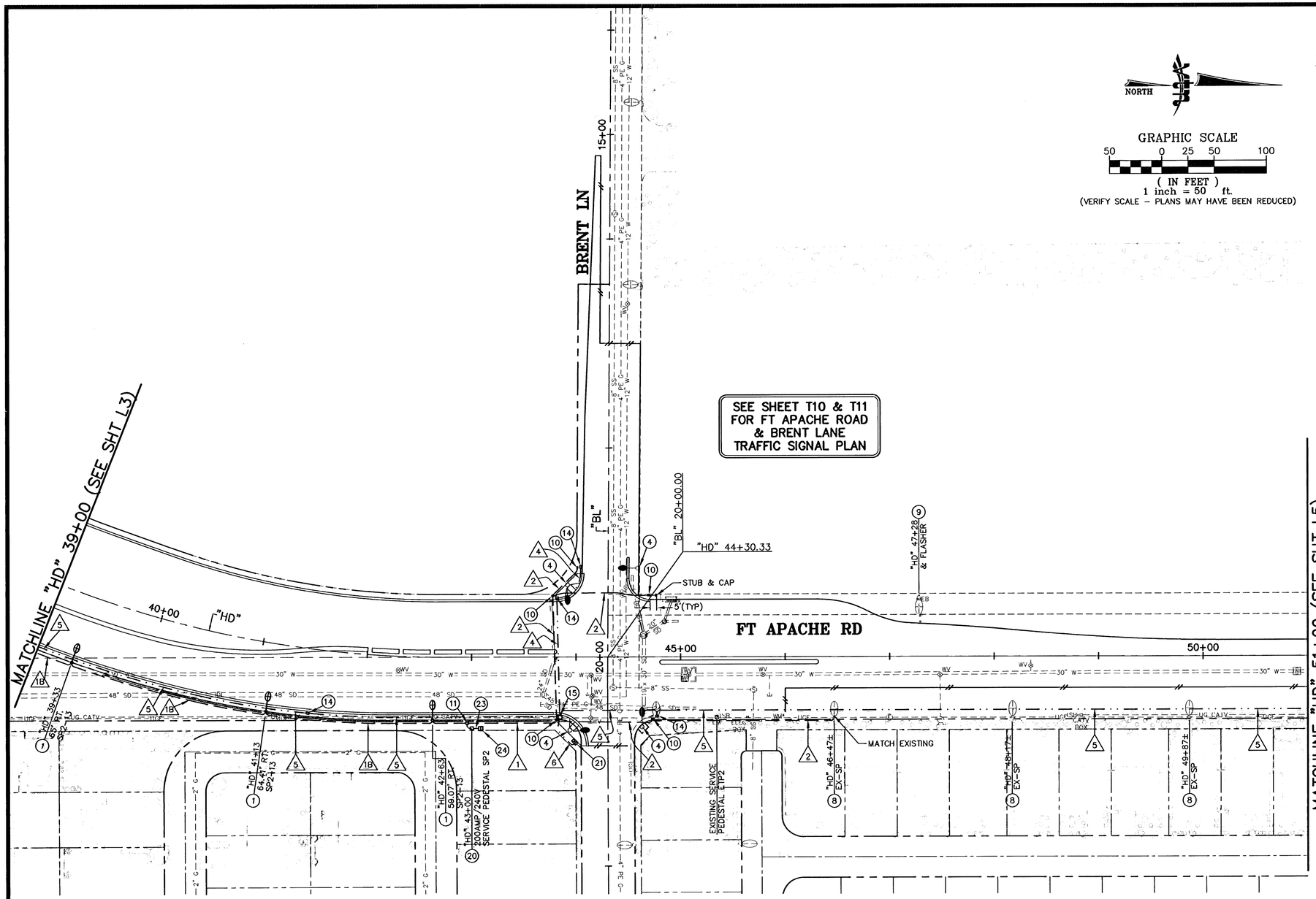

STREET LIGHTING & ITS LEGEND

1. INSTALL STREET LIGHT POLE & FOUNDATION WITH 250w LUMINAIRE PER USDCCA STD. DWG. NO. 314.
1A. INSTALL STREET LIGHT POLE & FOUNDATION WITH 250w LUMINAIRE (15' ARM) PER USDCCA STD. DWG. NO. 316.
1B. RELOCATE STREET LIGHT TO NEW FOUNDATION PER USDCCA STD. DWG. NO. 319.
1C. RELOCATE STREET LIGHT (15' ARM) TO NEW FOUNDATION PER USDCCA STD. DWG. NO. 319.
2. INSTALL STREET LIGHT POLE & FOUNDATION WITH 400w LUMINAIRE PER USDCCA STD. DWG. NO. 314.
2A. INSTALL STREET LIGHT POLE & FOUNDATION WITH 2–400w LUMINAIRES PER USDCCA STD. DWG. NO. 315.
3. INSTALL STREET LIGHT POLE & FOUNDATION WITH 150w LUMINAIRE PER USDCCA STD. DWG. NO. 314.
4. SEE TRAFFIC SIGNAL PLANS FOR INSTALLATION OF INTERSECTION LUMINAIRES.
5. INSTALL NDOT TYPE "A" UNDERPASS LUMINAIRE WITH 150w LUMINAIRE PER NDOT STD. DWG. T–30.1.19.
5A. INSTALL NDOT SIGN STRUCTURE LIGHTING FIXTURE WITH 150w LUMINAIRE PER NDOT STD. DWG. T–30.1.16.1. (SEE SIGNING PLANS FOR ADDITIONAL DETAILS)
6. INSTALL 100' TALL HIGHMAST LIGHT WITH 4–400w LUMINAIRES PER NDOT STD. DWG. T–30.1.11.
7. INSTALL 120' TALL HIGHMAST LIGHT WITH 6–400w LUMINAIRES PER NDOT STD. DWG. T–30.1.11.
8. EXISTING STREET LIGHT POLE, FOUNDATION & LUMINARE TO REMAIN.
9. REMOVE EXISTING STREET LIGHT POLE, FOUNDATION & LUMINARE. RETURN TO CITY OF LAS VEGAS.
10. INSTALL No. 3½ PULLBOX PER USDCCA STD. DWG. NO. 404.110. (MARK "STREET LIGHT").
11. INSTALL No. 5 PULLBOX PER USDCCA STD. DWG. NO. 404.120. (MARK "STREET LIGHT").
12. INSTALL No. 7 PULLBOX PER USDCCA STD. DWG. NO. 404.130. (MARK "STREET LIGHT").
13. INSTALL TYPE 1 JUNCTION BOX, INTERGRATED INTO BARRIER RAIL. PER NDOT STD. DWG. T–30.1.20 (MARK "STREET LIGHT").
14. INSTALL P30 PULLBOX PER USDCCA STD. DWG. NO. 404.132, WITH COMPOSITE H20 LOADING RATED LID AT 750' MAXIMUM SPACING. (MARK "FIBER OPTIC").
15. INSTALL TYPE 200 SPLICE VAULT PER USDCCA STD. DWG. NO. 404.133. (MARK "FIBER OPTIC").
16. EXISTING No. 3½ PULLBOX. PROTECT IN PLACE.
17. EXISTING No. 5 PULLBOX. PROTECT IN PLACE.
18. EXISTING No. 7 PULLBOX. PROTECT IN PLACE.
19. EXISTING P30 PULLBOX. PROTECT IN PLACE.
20. INSTALL SERVICE PEDESTAL PER USDCCA STD. DWG. NO. 404.214.
21. INSTALL TRAFFIC SIGNAL CONTROLLER CABINET. SEE TRAFFIC SIGNAL PLANS.
22. INTERCEPT EXISTING ITS CONDUIT AND INSTALL P30 PULLBOX, SEE NOTE 4. CONTRACTOR TO VERIFY LOCATION AND DEPTH OF CONDUIT IN THE FIELD.
23. SEE ONELINE DIAGRAMS ON SHEET L18 FOR CONDUIT AND CONDUCTOR SIZES.
24. PROPOSED NEVADA POWER TRANSFORMER.
25. UNDERPASS JUNCTION BOX PER NDOT STD. DWG. NO. T–30.1.19
26. INSTALL TRAFFIC CONTROL TEMPORARY IMPACT ATTENUATORS PER NDOT STD. DWG. T–35.2.1 (75mph DESIGN SPEED)

LIGHTING NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE TO THE UNIFORM STANDARD DRAWINGS AND SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF–SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA AS ADOPTED BY THE CITY OF LAS VEGAS.
2. ALL STREET LIGHTING WIRE SHALL BE COPPER WITH THW INSULATION.
3. ALL PULLBOXES ARE NO. 3–1/2 UNLESS NOTED OTHERWISE.
4. FIELD VERIFY EXISTING UNDERGROUND CONDUIT AND PULLBOXES, UTILIZE EXISTING CONDUIT WHERE POSSIBLE AND INSTALL NEW CONDUIT AS REQUIRED PER PLANS.

WIRING AND CONDUIT LEGEND

1. INSTALL 2" CONDUIT WITH: (2) #4 & (1) #6 GROUND.
1B. INSTALL 2" CONDUIT WITH: (4) #4 & (2) #6 GROUND.
2. INSTALL 2" CONDUIT WITH: #8 GREEN WIRE.
3. INSTALL 2" CONDUIT WITH: (2) #4 & (1) #6 GROUND. TAPE BOTH ENDS FOR FUTURE RE–CIRCUITING.
4. INSTALL 4" ITS CONDUIT WITH: 6 PAIR PE39 #22 AWG TRACER & TRUE TAPE OR APPROVED EQUAL PULL STRING.
5. INSTALL 4" ITS CONDUIT WITH: 72 STRAND FIBER OPTIC CABLE & 6 PAIR PE39 #22 AWG TRACER
6. INSTALL 4" ITS CONDUIT WITH: COMMUNICATIONS DISTRIBUTION CABLE ASSEMBLY (CDCA) & 6 PAIR PE39 #22 AWG TRACER
7. EXISTING 2" CONDUIT, PROTECT IN PLACE.
8. EXISTING 4" ITS CONDUIT PULL 72 STRAND FIBER OPTIC CABLE & 6 PAIR PE39 #22 AWG TRACER
9. EXISTING 4" ITS CONDUIT PROTECT IN PLACE.
10. INSTALL 3" CONDUIT WITH: (8) #4 & (4) #6 GROUND.
11. INSTALL 3" CONDUIT WITH: (4) #4 & (2) #6 GROUND.
12. INSTALL (1) 3" & (4) 1¼" ITS CONDUITS WITH: #8 GREEN WIRE & TRUE TAPE OR APPROVED EQUAL PULL STRING. ITS CONDUITS SHALL BE THE FOLLOWING COLORS:
(1) 3" CONDUIT–GREY
(1) 1¼" CONDUIT–ORANGE
(1) 1¼" CONDUIT–BLUE
(1) 1¼" CONDUIT–WHITE
(1) 1¼" CONDUIT–BLACK

AVOID OVERHEAD POWER LINE CONTACT IT'S COSTLY
Call before you Overhead
1–702–227–2929
NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811 OR 1–800–227–2600
CLARK COUNTY TRAFFIC SIGNALS 1–702–455–7544

ELECTRICAL ONLY
PROFESSIONAL ENGINEER – STATE OF NEVADA No. 13946 – 7-31-09

PUBLIC WORKS DEPARTMENT
400 E. STEWART AVE.
LAS VEGAS, NV 89101
702–229–6272
CITY OF LAS VEGAS, NV

vtn nevada CONSULTING ENGINEERS • PLANNERS • LAND SURVEYORS
2272 SOUTH RAINBOW BOULEVARD LAS VEGAS, NEVADA 89146–5146
PH. (702) 873–7500 FAX (702) 362–2987

REV	DATE	BY	REVISION

LIGHTING & ITS PLAN
"HD" 39+00 TO "HD" 51+00

HORSE DRIVE / US 95
INTERCHANGE

DRAWN BY: WBM	06/30/2008		
DESIGNED BY: VTN / TJK	06/30/2008		
CHECKED BY: ROH / AB	06/30/2008	HORIZ.	
PROJECT NO: 6500	SCALE: 1"=50' N/A	VERT.	

PROFESSIONAL ENGINEER – STATE OF NEVADA
ROBERT C. HOSEA III
EXP. 06/30/09
CIVIL
No. 10112

SHEET L4
224 OF 453 SHEETS
DRAWING NO. 107V3759

114516

I:\6500\DWG\DESIGN\6500–D–LIGHTING–HD.dwg