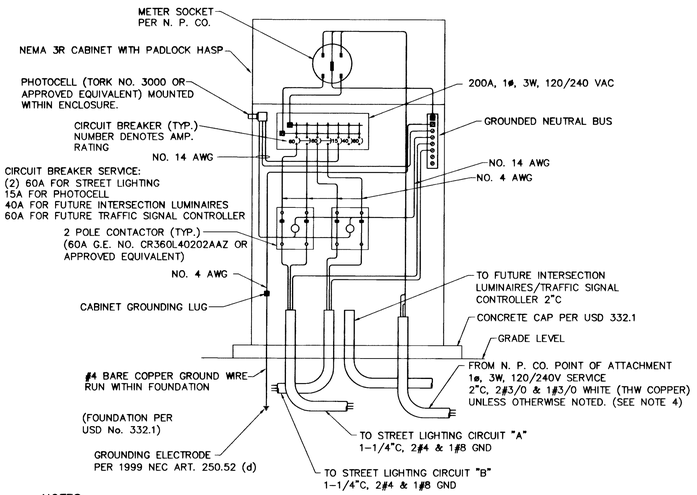
STREET CLASSIFICATION

DESERT FOOTHILLS DRIVE:	NEIGHBORHOOD ARTERIAL WITH BIKE LANES
CHARLESTON BLVD:	NEIGHBORHOOD ARTERIAL WITH BIKE LANES
COLLECTOR ROAD:	NEIGHBORHOOD COLLECTOR (LEVEL 1) WITH BIKE LANES

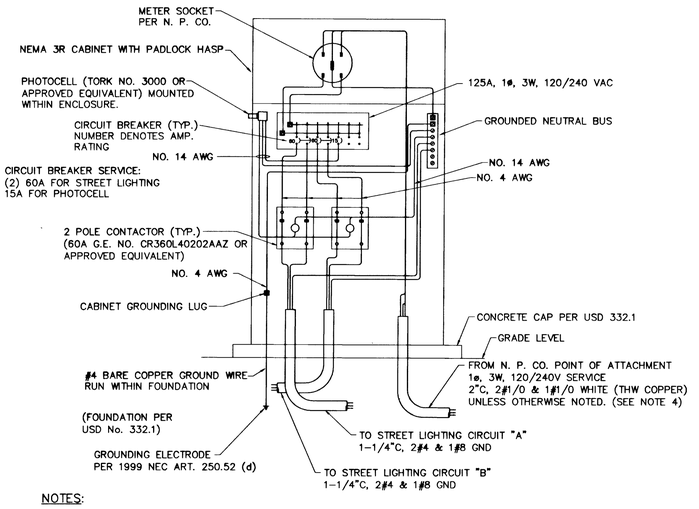


NOTES:

1. MANUFACTURER'S CATALOG NUMBERS ARE SHOWN TO ESTABLISH A DEGREE OF QUALITY AND PERFORMANCE, APPROVED AS EQUIVALENT ARE ACCEPTABLE.
2. ALL CONDUCTORS AND BUSSING TO BE COPPER.
3. INSTALL PER CLARK COUNTY AREA, UNIFORM STANDARD DRAWING NUMBER 330, 331, 332.1, 335.1.
4. TRANSFORMER TO SERVICE PEDESTAL DISTANCES GREATER THAN 195' FOR SPECIFIED CONDUCTORS MUST BE APPROVED BY ENGINEER.
5. ALL CONDUCTOR SHALL BE STRANDED 600V THW INSULATED COPPER.

(CLV) 200A PAD MOUNTED SERVICE POINT FOR TRAFFIC SIGNAL AND STREET LIGHTING — 2/19

NOT TO SCALE



NOTES:

1. MANUFACTURER'S CATALOG NUMBERS ARE SHOWN TO ESTABLISH A DEGREE OF QUALITY AND PERFORMANCE, APPROVED AS EQUIVALENT ARE ACCEPTABLE.
2. ALL CONDUCTORS AND BUSSING TO BE COPPER.
3. INSTALL PER CLARK COUNTY AREA, UNIFORM STANDARD DRAWING NUMBER 330, 331, 332.1, 335.1.
4. TRANSFORMER TO SERVICE PEDESTAL DISTANCES GREATER THAN 195' FOR SPECIFIED CONDUCTORS MUST BE APPROVED BY ENGINEER.
5. ALL CONDUCTOR SHALL BE STRANDED 600V THW INSULATED COPPER.

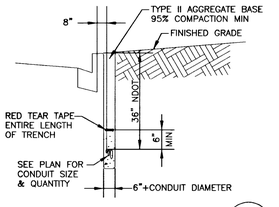
(CC) 125A PAD MOUNTED SERVICE POINT FOR TRAFFIC SIGNAL AND STREET LIGHTING — 3/19

NOT TO SCALE

RLwm 46852 54973

ELECTRICAL NOTES

1. ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC, 30" MINIMUM COVER (CLV) AND 24" MINIMUM COVER (COUNTY). CONDITIONS WHICH REQUIRE 24" COVER OR LESS SHALL BE CONCRETE ENCASED (CLV) AND APPROVED BY INSPECTING AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION. ABOVE GRADE CONDUIT AND CONDUIT RISERS SHALL BE RIGID METAL CONDUIT.
2. ALL CONDUCTOR SHALL BE STRANDED, 600V THW INSULATED COPPER.
3. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL ELECTRICAL COMPONENTS AND HARDWARE AS REQUIRED BY THE NATIONAL ELECTRICAL CODE, LATEST EDITION, AND SHALL COMPLY WITH THE REQUIREMENTS OF THE INSPECTING AUTHORITY HAVING JURISDICTION.



TRENCH DETAIL — 1/19

SCALE: NONE

STREETLIGHT CIRCUIT CAPACITY VERIFICATION

(CLARK COUNTY ONLY)

SERVICE LOCATION: SP14 (SOUTH SIDE OF CHARLESTON BLVD. APPROX. STA. 803+30)

* CONTRACTOR SHALL COMPLETE THE FOLLOWING IF THIS LOCATION IS AN EXISTING SERVICE THAT WAS FIELD VERIFIED:

ELECTRICAL CONTRACTOR NAME: _____ CONTRACTOR LICENSE NUMBER: _____

NAME AND TITLE OF PERSON WHO PERFORMED FIELD TESTING: _____

I HAVE VERIFIED THIS ELECTRICAL SERVICE FOR CAPACITY: YES NO (CIRCLE ONE)

SIGNATURE: _____ DATE: _____

* ENGINEER OF THE OFFSITE PLANS SHALL COMPLETE THE FOLLOWING:

ENGINEER WHO PERFORMED CALCULATIONS: RICKEY D. HUNSAKER ENGINEER'S LICENSE NUMBER: 12812

CONSULTING ENGINEERING FIRM: G.C. WALLACE, INC.

I HAVE READ, UNDERSTOOD AND FULLY INVESTIGATED THE DESIGN CONSIDERATIONS: (YES) NO (CIRCLE ONE)

SIGNATURE: _____ DATE: 07-30-2002

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.

CALL BEFORE YOU DIG OVERHEAD

CALL 1-702-593-6111

Traffic Management Division
Clark County Public Works

ACCEPTED

By: _____ 10/9/02
Traffic Management Date

ACCEPTANCE OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF STATE OR COUNTY LAW, SPECIFICATIONS, OR THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

PROFESSIONAL ENGINEER - STATE OF NEVADA
RICKEY D. HUNSAKER
Exp. 06/30/2003
ELECTRICAL
No. 12812

DATE: 10-9-02

FOR ELECTRICAL COMPONENTS ONLY

SP9, SP13, SP14, SP15: SERVICE PEDESTAL CIRCUIT CAPACITY VERIFICATION

CIRCUIT NAME:	SP9(A) [CLV]		SP9(B) [CLV]		SP13(A) [CLV]		SP13(B) [CLV]		SP13(C) [CLV]		SP14(A) [CC]		SP14(B) [CC]		SP15(A) [CC]		SP15(B) [CC]	
CIRCUIT TYPE:	STREET LIGHTING (PROPOSED)		STREET LIGHTING (PROPOSED)		STREET LIGHTING (EXISTING)		INTERSECTION LIGHTING (EXISTING)		STREET LIGHTING (EXISTING)		STREET LIGHTING (EXISTING)		STREET LIGHTING (EXISTING)		STREET LIGHTING (PROPOSED)		STREET LIGHTING (PROPOSED)	
VOLTAGE:	240		240		240		240		240		240		240		240		240	
CIRCUIT CAPACITY:	60		60		60		40		60		60		60		60		60	
MAXIMUM CONTINUOUS CURRENT DRAW IS 80% OF CIRCUIT CAPACITY:	48		48		48		32		48		48		48		48		48	
EXISTING CIRCUIT LOAD AMPS =	0.00		0.00		11.25		16.00		10.50		10.00		1.25		0.00		0.00	
PROPOSED LOAD TO CIRCUIT:	PROPOSED QTY.	AMPS	PROPOSED QTY.	AMPS	PROPOSED QTY.	AMPS	PROPOSED QTY.	AMPS	PROPOSED QTY.	AMPS	PROPOSED QTY.	AMPS	PROPOSED QTY.	AMPS	PROPOSED QTY.	AMPS	PROPOSED QTY.	AMPS
250 WATT SINGLE LUMINAIRES AT 240V = 1.25 AMPS	12	15.00	0	0.00	0	0.00	0	0.00	8	10.00	0	0.00	8	10.00	11	13.75	0	0.00
TOTAL PROPOSED LOAD AMPS =	15.00		0.00		0.00		0.00		10.00		0.00		10.00		13.75		0.00	
EXISTING PLUS PROPOSED LOAD AMPS =	15.00		0.00		11.25		16.00		20.50		10.00		11.25		13.75		0.00	
REMAINING AVAILABLE LOAD AMPS: MAXIMUM – EXISTING – PROPOSED =	33.00		48.00		36.75		16.00		27.50		38.00		36.75		34.25		48.00	

Avoid cutting underground utility lines. It's costly.

Call before you Dig.

1-800-227-2600

UNDERGROUND SERVICE ALERT (USA)

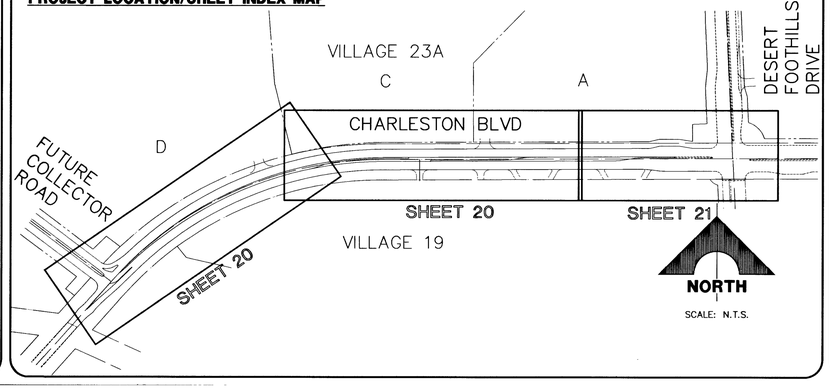
CITY OF LAS VEGAS STREETLIGHT NOTES

1. ALL STREETLIGHTING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE STREET LIGHTING PLANS, THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST REVISION, AND THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST REVISION.
2. NO DEVIATION OF STREETLIGHT, PULLBOX, CONDUITS (ETC.) LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE TRAFFIC/ELECTRICAL FIELD OPERATIONS DIVISION AND THE CITY ENGINEER. ANY DEVIATION FROM THE PLAN LOCATION WILL REQUIRE COMPLIANCE WITH SECTION 623.1.0.03 (E) OF THE SPECIFICATIONS.
3. ALL EXISTING STREETLIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.
4. ALL CONDUIT WHICH WOULD OTHERWISE BE EMPTY MUST INCLUDE NYLON PULLSTRING AND 1 #8 FOR LOCATING PURPOSES.
5. ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, ETC., SHALL LEAVE A MINIMUM CLEARANCE OF EIGHTEEN INCHES (18") TO THE FACE OF STREET LIGHTING POLE ON ALL SIDES WHEN STREETLIGHT IS INSTALLED BEHIND SIDEWALK, AND SHALL AT NO TIME COMPLETELY ENCLOSE THE STREET LIGHTING POLE.
6. AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE ELECTRICAL SERVICES SECTION PRIOR TO ANY PREFINAL INSPECTION. THE AS-BUILT DRAWING NEEDS TO BE STAMPED AS-BUILT AND SIGNED BY THE PREPARER.
7. SERVICE POINT SHALL BE COORDINATED WITH NEVADA POWER COMPANY, AND WHEREVER POSSIBLE, BE LOCATED NEAR THE CENTER OF THE CIRCUIT. SERVICE POINTS SHALL BE SHOWN ON PLANS.
8. IT SHALL BE ASSUMED THAT IN THE ABSENCE OF AN EXISTING, WORKABLE CIRCUIT TO ATTACH TO, ALL INSTALLATIONS SHALL REQUIRE A NEW SERVICE FOR OPERATION OF THE CIRCUIT.
9. WHEREVER THERE IS AN OVERHEAD UTILITY THAT MAY CONFLICT WITH THE INSTALLATION OF STREETLIGHTING CIRCUITS AND/OR POLES, THESE CONFLICTS MUST BE RESOLVED BETWEEN THE DEVELOPER AND THE UTILITIES INVOLVED BEFORE STREETLIGHT BASES ARE INSTALLED AT NO EXPENSE TO THE CITY OF LAS VEGAS.
10. THE CONTRACTOR SHALL FURNISH COMPLETE SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS IF REQUIRED ON PLANS.

LEGEND

- STREET LIGHT CONDUIT (1) 1-1/4"C, 2#4, 1#8 GND. THW. UNLESS OTHERWISE NOTED
- TRAFFIC INTERCONNECT CONDUIT (1) 4" CONDUIT W/ 3' RADIUS SWEEPS INTO PULLBOXES FOR FUTURE FIBER OPTIC.
- TRAFFIC SIGNAL CONDUIT (1) 3"C, 2#10, 1#8 GND. THW., (1) 3" CONDUIT ONLY, WITH PULLSTRING, UNLESS OTHERWISE NOTED
- SCHOOL FLASHER CONDUIT (1) 2"C 1#8 AND PULLSTRING
- TRAFFIC SIGNAL POLE WITH STREET LIGHT
- STREET LIGHT
- FUTURE STREET LIGHT
- EXISTING STREET LIGHT
- METER SERVICE PEDESTAL
- (N) SERVICE PEDESTAL AND N.P.CO. TRANSFORMER
- (NX) CIRCUIT DESIGNATION: (CONTAINED WITHIN BOUNDRY) N = SERVICE PEDESTAL X = CIRCUIT
- #3-1/2 PULLBOX, MARKED "STREET LIGHTING" UNLESS OTHERWISE NOTED.
- #5 PULLBOX, MARKED "TRAFFIC SIGNAL" UNLESS OTHERWISE NOTED.
- P30 PULLBOX, MARKED "TRAFFIC SIGNAL" UNLESS OTHERWISE NOTED.
- NEVADA POWER TRANSFORMER AND METER SERVICE PEDESTAL
- CONTROL CABINET FOR FUTURE TRAFFIC SIGNALS

PROJECT LOCATION/SHEET INDEX MAP



ELECTRICAL CONSTRUCTION NOTES

1/E EXISTING NEVADA POWER COMPANY TRANSFORMER.

2/E EXISTING CITY OF LAS VEGAS SERVICE PEDESTAL SP13: 200 AMP SINGLE PHASE, 3 WIRE, 120/240V PAD MOUNTED SERVICE PEDESTAL. FEEDER FROM N.P.CO. POINT OF CONNECTION TO BE 2"C, 2#3/0 THW, 1#3/0 WHITE THW (COPPER). TRANSFORMER TO SERVICE PEDESTAL DISTANCES GREATER THAN 195 FEET FOR SPECIFIED CONDUCTORS MUST BE APPROVED BY ENGINEER. SERVICE PEDESTAL SHALL BE LOCATED A MINIMUM OF 30 FEET FROM THE TRANSFORMER.
THE FOLLOWING SHALL BE INCLUDED IN THE SERVICE PEDESTAL:
(2) 60 AMP, 240V, 2-POLE CIRCUIT BREAKERS, (2) 60 AMP, 240V, 2-POLE LIGHTING CONTACTORS,
(2) TEST SWITCHES (ONE FOR EACH CONTACTOR), PHOTOELECTRIC CONTROL,
(1) 15 AMP, 120V, SINGLE POLE CIRCUIT BREAKER FOR LIGHTING CONTROLS,
(1) 40 AMP, 120V, SINGLE POLE CIRCUIT BREAKER FOR INTERSECTION LUMINAIRES,
(1) 60 AMP, 120V, SINGLE POLE CIRCUIT BREAKER FOR FUTURE TRAFFIC SIGNAL CONTROLLER.
CONTRACTOR TO PROVIDE (2) 1-1/4" CONDUITS FROM SERVICE PEDESTAL TO FIRST STREETLIGHTING PULLBOX AND (1) 2" CONDUIT TO PULLBOX AS SHOWN FOR FUTURE TRAFFIC SIGNAL CONTROLLER AND FUTURE INTERSECTION LUMINAIRE BRANCH CIRCUITS. SERVICE PEDESTAL SHALL COMPLY WITH CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS 330, 331, 332.1 AND 335.1.
REFER TO SUMMERLIN VILLAGE 20 CHARLESTON BOULEVARD IMPROVEMENTS, SHEETS E-1, E-2 AND E-3 AND V23A DESERT FOOTHILLS DRIVE IMPROVEMENTS SHEETS 26, 27 AND 28 FOR EXISTING CONNECTED LOAD.

3/E EXISTING CLARK COUNTY SERVICE PEDESTAL SP14: 125 AMP, SINGLE PHASE, 3 WIRE, 120/240V PAD MOUNTED SERVICE PEDESTAL. FEEDER FROM N.P.CO. POINT OF CONNECTION TO BE 2"C, 2#1/0 THW, 1#1/0 WHITE THW (COPPER). TRANSFORMER TO SERVICE PEDESTAL DISTANCES GREATER THAN 195 FEET FOR SPECIFIED CONDUCTORS MUST BE APPROVED BY ENGINEER. SERVICE PEDESTAL MUST BE LOCATED A MINIMUM OF 30 FEET FROM THE TRANSFORMER.
THE FOLLOWING SHALL BE INCLUDED IN THE SERVICE PEDESTAL:
(2) 60 AMP, 240V, 2-POLE CIRCUIT BREAKERS, (2) 60 AMP, 240V, 2-POLE LIGHTING CONTACTORS,
(2) TEST SWITCHES (ONE FOR EACH CONTACTOR), PHOTOELECTRIC CONTROL,
(1) 15 AMP, 120V, SINGLE POLE CIRCUIT BREAKER FOR LIGHTING CONTROLS.
SERVICE PEDESTAL SHALL COMPLY WITH CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS 330, 331, 332.1 AND 335.1.
REFER TO SUMMERLIN VILLAGE 20 CHARLESTON BOULEVARD IMPROVEMENTS, SHEETS E-1, E-2 AND E-3 FOR EXISTING CONNECTED LOAD.

4/E EXISTING (1) 1-1/4" CONDUIT CONTAINING 2#4, 1#8 GND. (CIRCUIT SP13A).

5/E EXISTING (2) 2" CONDUITS EACH CONTAINING 2#4, 1#8 GND. (CIRCUITS SP13A, SP13C).

6/E EXISTING (1) 1-1/4" CONDUIT ONLY. REFER TO NOTE 4.

7/E PROPOSED NEVADA POWER COMPANY TRANSFORMER.

8/E PROPOSED CITY OF LAS VEGAS SERVICE PEDESTAL SP9: 200 AMP SINGLE PHASE, 3 WIRE, 120/240V PAD MOUNTED SERVICE PEDESTAL. FEEDER FROM N.P.CO. POINT OF CONNECTION TO BE 2"C, 2#3/0 THW, 1#3/0 WHITE THW (COPPER). TRANSFORMER TO SERVICE PEDESTAL DISTANCES GREATER THAN 195 FEET FOR SPECIFIED CONDUCTORS MUST BE APPROVED BY ENGINEER. SERVICE PEDESTAL SHALL BE LOCATED A MINIMUM OF 30 FEET FROM THE TRANSFORMER.
THE FOLLOWING SHALL BE INCLUDED IN THE SERVICE PEDESTAL:
(2) 60 AMP, 240V, 2-POLE CIRCUIT BREAKERS, (2) 60 AMP, 240V, 2-POLE LIGHTING CONTACTORS,
(2) TEST SWITCHES (ONE FOR EACH CONTACTOR), PHOTOELECTRIC CONTROL,
(1) 15 AMP, 120V, SINGLE POLE CIRCUIT BREAKER FOR LIGHTING CONTROLS,
(1) 40 AMP, 120V, SINGLE POLE CIRCUIT BREAKER FOR FUTURE INTERSECTION LUMINAIRES,
(1) 60 AMP, 120V, SINGLE POLE CIRCUIT BREAKER FOR FUTURE TRAFFIC SIGNAL CONTROLLER.
CONTRACTOR TO PROVIDE (2) 1-1/4" CONDUITS FROM SERVICE PEDESTAL TO FIRST STREETLIGHTING PULLBOX AND (1) 2" CONDUIT TO TRAFFIC SIGNAL CONTROLLER CABINET AND FUTURE INTERSECTION LUMINAIRE BRANCH CIRCUITS. SERVICE PEDESTAL SHALL COMPLY WITH CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS 330, 331, 332.1 AND 335.1.

9/E PROPOSED CLARK COUNTY SERVICE PEDESTAL SP15: 125 AMP, SINGLE PHASE, 3 WIRE, 120/240V PAD MOUNTED SERVICE PEDESTAL. FEEDER FROM N.P.CO. POINT OF CONNECTION TO BE 2"C, 2#1/0 THW, 1#1/0 WHITE THW (COPPER). TRANSFORMER TO SERVICE PEDESTAL DISTANCES GREATER THAN 195 FEET FOR SPECIFIED CONDUCTORS MUST BE APPROVED BY ENGINEER. SERVICE PEDESTAL MUST BE LOCATED A MINIMUM OF 30 FEET FROM THE TRANSFORMER.
THE FOLLOWING SHALL BE INCLUDED IN THE SERVICE PEDESTAL:
(2) 60 AMP, 240V, 2-POLE CIRCUIT BREAKERS, (2) 60 AMP, 240V, 2-POLE LIGHTING CONTACTORS,
(2) TEST SWITCHES (ONE FOR EACH CONTACTOR), PHOTOELECTRIC CONTROL,
(1) 15 AMP, 120V, SINGLE POLE CIRCUIT BREAKER FOR LIGHTING CONTROLS.
SERVICE PEDESTAL SHALL COMPLY WITH CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS 330, 331, 332.1 AND 335.1.

10/E SINGLE 250W STREETLIGHT, SUMMERLIN TYPE 2A.

11/E (1) 1-1/4" CONDUIT CONTAINING 2#4, 1#8 GND.

12/E (1) 1-1/4" CONDUIT ONLY. REFER TO NOTE 4.

13/E STUB AND CAP 5' BEYOND EDGE OF CONSTRUCTION.

14/E (1) 4" TRAFFIC INTERCONNECT CONDUIT W/ 3' RADUIS SWEEPS INTO PULLBOXES FOR FUTURE FIBER OPTIC. REFER TO NOTE 4.

15/E (1) 2" CONDUIT ONLY FOR FUTURE SCHOOL FLASHERS. REFER TO NOTE 4.

16/E (5) 3" CONDUIT ONLY AND (1) 2" CONDUIT ONLY. REFER TO NOTE 4.

17/E REMOVE CAP AND CONNECT TO EXISTING CONDUIT STUB.

18/E PROVIDE 2#4, 1#8 GND FROM PROPOSED STREETLIGHT POLE TO EXISTING STREETLIGHT POLE OR PULLBOX.

19/E (2) 3" CONDUIT ONLY. REFER TO NOTE 4.

20/E (1) 2" CONDUIT CONTAINS 2#4/0, 1#4/0 GND. (1)

HTE# 02-31260

REV	DATE	DESCRIPTION
1	10/9/02	ADD NOTE # 20

DESIGN: DFT
DRAWN: ____
CHECK: GBW
ISSUE EDITOR: ____
ISSUE DATE: ____
PLOT DATE: 10-04-02
PLOT TIME: 15:03:23
dfehlig

G.C. WALLACE, INC.
Engineers/Planners/Surveyors
2495 SOUTH RAINBOW BLVD., LAS VEGAS, NEVADA 89146
(702) 804-2100 FAX: (702) 804-2101
SUMMERLIN OFFICE 10000 CHARLESTON BLVD., STE. 130
OFFICE: (702) 804-2160, FAX: (702) 804-2295
F:\V23\Charleston\dwg\mpa\V23SB19.dwg

SUMMERLIN

VILLAGE 19/23A CHARLESTON BOULEVARD IMPROVEMENTS

CHARLESTON BOULEVARD
MASTER CONDUIT AND ELECTRICAL PLAN I

JOB NO. 82023.240

SHEET 19 OF 21 SHTS