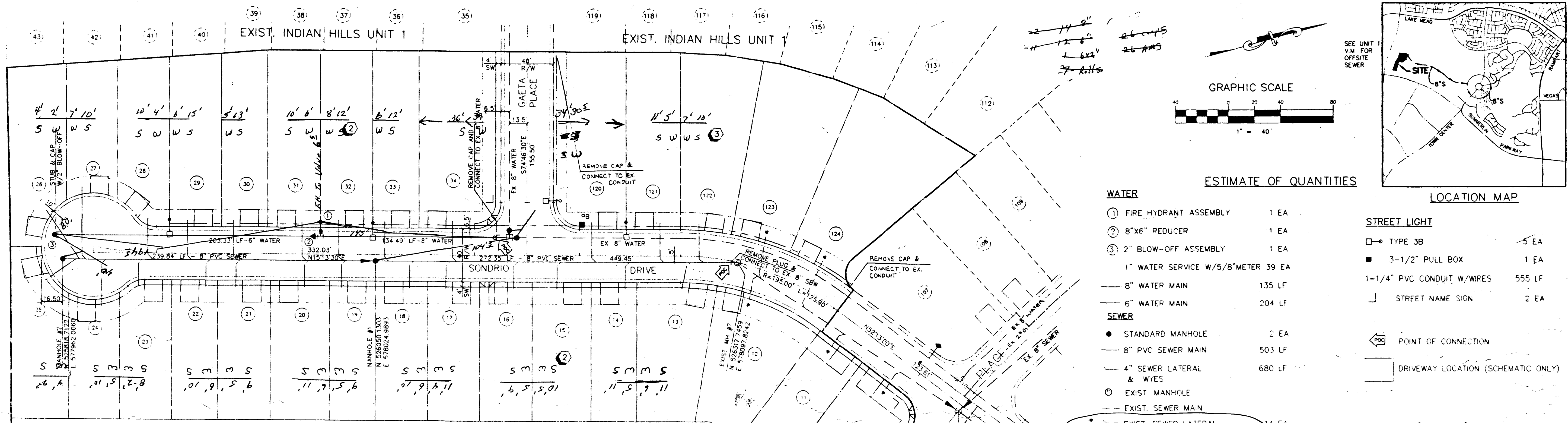


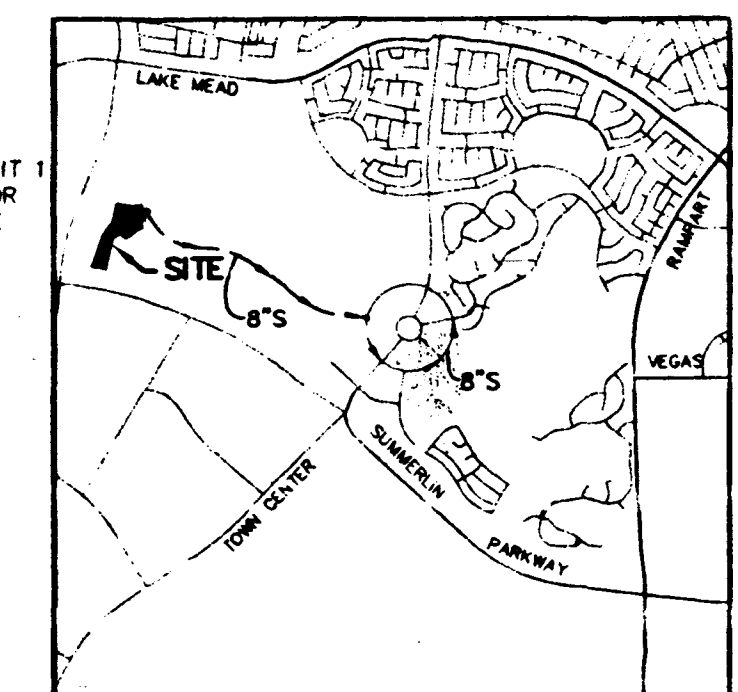
INDIAN HILLS 21112 00112



ESTIMATE OF QUANTITIES

WATER	
1 FIRE HYDRANT ASSEMBLY	1 EA
2 8"x6" REDUCER	1 EA
3 2" BLOW-OFF ASSEMBLY	1 EA
1" WATER SERVICE W/5/8" METER	39 EA
8" WATER MAIN	135 LF
6" WATER MAIN	204 LF
SEWER	
STANDARD MANHOLE	2 EA
8" PVC SEWER MAIN	503 LF
4" SEWER LATERAL & WYES	680 LF
EXIST. MANHOLE	14 EA
EXIST. SEWER MAIN	
EXIST. SEWER LATERAL & WYES INSTALLED W/UNIT 1	
STREET LIGHT	
TYPE 38	5 EA
3-1/2" PULL BOX	1 EA
1-1/4" PVC CONDUIT W/WIRES	555 LF
STREET NAME SIGN	2 EA

LOCATION MAP

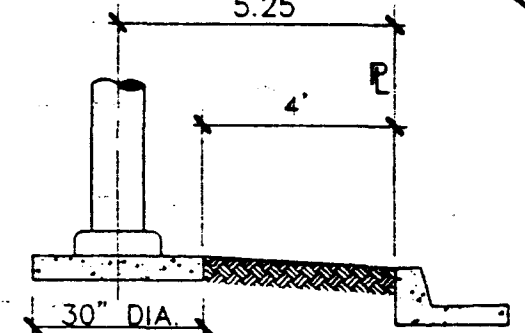


WATER DISTRICT STANDARD NOTES

- NO WORK SHALL BEGIN UNTIL THE WATER DISTRICT HAS BEEN RELEASED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, 480 HOUR NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATIONS SUPPORT CENTER (258-7171) PRIOR TO THE START OF CONSTRUCTION. NOTICE MUST BE GIVEN BY 5:00 P.M. THE BUSINESS DAY PRIOR TO A LVVWD INSPECTION.
- ALL WORK SHALL CONFORM TO LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS), LATEST EDITION. ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTICE, SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA.
- A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
- ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
- ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB OUTS.
- THE FOLLOWING REQUIREMENTS MUST BE MET IN THE EVENT A WATER LINE AND A SANITARY OR STORM SEWER LINE CROSS:
 - A MINIMUM EIGHTEEN (18) INCH VERTICAL SEPARATION (OUTSIDE TO OUTSIDE) MUST BE MAINTAINED WHEN THE WATER LINE IS INSTALLED OVER THE SANITARY OR STORM SEWER LINE. IF THE VERTICAL SEPARATION CANNOT BE MAINTAINED OR THE WATER LINE MUST BE PLACED UNDER THE SANITARY OR STORM SEWER LINE, THE SANITARY OR STORM SEWER LINE MUST BE CONSTRUCTED WITH ONE OF THE FOLLOWING OR AS SHOWN ON THESE PLANS:
 - POTABLE WATER SUPPLY QUALITY MATERIAL.
 - ENCASEMENT WITH FOUR (4) INCH CONCRETE (MINIMUM).
 - SLEEVING WITH POTABLE WATER SUPPLY QUALITY PIPE.
 - EACH PROVISION MUST EXTEND ALONG THE SANITARY OR STORM SEWER ON EITHER SIDE OF THE MAIN, A MINIMUM 10 FOOT DISTANCE PERPENDICULAR TO THE WATER MAIN EXTERIOR.
 - WARNING TAPE SHALL BE REQUIRED OVER ALL MAINS, ALL SIX (6) INCH DIAMETER AND LARGER SERVICE LATERALS, AND ANY SERVICE LATERAL NOT INSTALLED PERPENDICULAR TO THE MAIN IN ACCORDANCE WITH STANDARD PLATE NO. 27.
 - ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED, AND AN ACCEPTABLE WATER SAMPLE OBTAINED PRIOR TO CONNECTION TO THE LVVWD'S DISTRIBUTION SYSTEM.
 - THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES, TELEPHONE 258-3152 FORTY-EIGHT (48) HOURS PRIOR TO PICKUP.
 - CONSTRUCTION MAY INTERRUPT SERVICE, WITH LVVWD APPROVAL, AND PROPER NOTIFICATION, BETWEEN THE HOURS OF 10 P.M. AND 6 A.M. SUNDAY THROUGH THURSDAY. CIRCUMSTANCES MAY REQUIRE TEMPORARY SERVICE FEEDS BE INSTALLED, WITHOUT LVVWD REIMBURSEMENT, ANY TEMPORARY SERVICE FEED MUST HAVE PRIOR LVVWD APPROVAL.
 - ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD'S PRE-APPROVED MATERIALS AND MANUFACTURERS LISTING FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS.

FIRE DEPARTMENT NOTES

- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CITY OF LAS VEGAS FIRE DEPARTMENT "HYDRANT SPECIFICATIONS," "HYDRANT INSTALLATION SPECIFICATIONS" AND ORDINANCE #3944.
- AUTHORIZED HYDRANTS FOR THIS PROJECT ARE:
 - KENNEDY GUARDIAN
 - MULLER A-423 CENTURIAN
 - CLOW MODEL 2546 MEDALLION
- ON ANY NEW HOME OR BUILDING INSTALLATION, ACCESSIBLE FIRE HYDRANTS SHALL BE INSTALLED BEFORE COMBUSTIBLE CONSTRUCTION COMMENCES, AND SAID FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER WITH AN ADEQUATE WATER SUPPLY.
- CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT CENTERLINE OF STREET ADJACENT TO FIRE HYDRANT AS REQUIRED IN ORDINANCE #3944 TO IDENTIFY THE FIRE HYDRANT LOCATION.
- CALL THE LAS VEGAS FIRE DEPARTMENT AT 229-2071 FOR UNDERGROUND INSPECTION, PRESSURE AND FLUSH VERIFICATION OF ALL FIRE HYDRANTS AND FIRE LINES BEFORE COVERING.
- PAINTING OF THE CURBS AND HYDRANTS AND ANY WORK NECESSARY FOR PROTECTION OF HYDRANTS FROM PHYSICAL DAMAGE PER ORDINANCE #3944, SHALL BE COMPLETED BEFORE APPROVAL BY THE CITY OF LAS VEGAS FIRE DEPARTMENT.
- A PERMIT IS REQUIRED FROM THE FIRE DEPARTMENT FOR ON-SITE WATER LINE AND FIRE HYDRANT. THE PERMIT AND CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER PRIOR TO ANY WORK BEGINNING.
- PRIVATE FIRE HYDRANTS SHALL BE PAINTED RED.
- A FLOW TEST MUST BE WITNESSED BY THE FIRE DEPARTMENT PRIOR TO OCCUPANCY FOR VERIFICATION OF REQUIRED ON-SITE WATER SUPPLY.
- ALL ON-SITE FIRE MAIN MATERIALS MUST BE U.L. LISTED AND A W.W.A. APPROVED.
- FIRE HYDRANT SPACING:
 - RESIDENTIAL - 500 FEET UNSPRINKLERED, 1,000 FEET SPRINKLERED COMMERCIAL, INCLUDING MULTI-FAMILY - 300 FEET UNSPRINKLERED, 600 FEET SPRINKLERED.
- WHERE NEW WATER MAINS ARE EXTENDED ALONG STREETS, WHERE HYDRANTS ARE NOT NEEDED FOR PROTECTION OF STRUCTURES, FIRE HYDRANTS SHALL BE SPACED AT MAXIMUM 1,000 FOOT SPACING TO PROVIDE FOR TRANSPORTATION HAZARDS.
- NO FIRE HYDRANT SHALL BE LOCATED WITHIN THE REQUIRED RADIUS OF A CUL-DE-SAC OR WITHIN 20 FEET OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
- NO FIRE HYDRANT SHALL BE LOCATED WITHIN 6 FEET OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREET LIGHT OR ANY OTHER OBSTRUCTION.
- TWO SOURCES OF SUPPLY ARE REQUIRED, WHENEVER THERE ARE 4 OR MORE HYDRANTS INSTALLED ON A SINGLE SYSTEM.
- NOT MORE THAN 2 HYDRANTS CAN BE OUT OF SERVICE DUE TO A SINGLE MAIN BREAK.
- FIRE APPARATUS ACCESS ROADS SHALL HAVE AN UNOBSTRUCTED WIDTH OF NOT LESS THAN 20 FEET. PROVIDED NO PARKING IS ALLOWED, NOT LESS THAN 20 FEET IF PARALLEL PARKING IS ALLOWED ON ONE SIDE, AND NOT LESS THAN 36 FEET IF PARALLEL PARKING IS ALLOWED ON BOTH SIDES. VERTICAL CLEARANCE SHALL BE NOT LESS THAN 13 FEET 6 INCHES.
- THE TURNING RADIUS FOR ANY FIRE APPARATUS ACCESS ROAD AND/OR FIRE LANE, PUBLIC OR PRIVATE, SHALL BE NOT LESS THAN 45 FEET OUTSIDE RADIUS AND 22 FEET INSIDE RADIUS.
- A FIRE APPARATUS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN 150 FEET FROM A FIRE DEPARTMENT VEHICLE ACCESS (SEE EXCEPTIONS IN UFG 94, SECTION 902.2).
- ALL DEAD END FIRE APPARATUS ACCESS ROADS, AND/OR FIRE LANES, PUBLIC OR PRIVATE, IN EXCESS OF 150 FEET IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN AROUND AREA. SEE ORDINANCE #3944.
- ACCESS ROADS SHALL BE MARKED BY PLACING APPROVED SIGNS AT THE START OF THE DESIGNATED FIRE LANE, ONE SIGN AT THE END OF THE FIRE LANE AND WITH SIGNS AT INTERVALS OF 100 FEET ALONG ALL DESIGNATED FIRE LANES. SIGNS TO BE PLACED ON BOTH SIDES OF AN ACCESS ROADWAY IF NEEDED TO PREVENT PARKING ON EITHER SIDE. SIGNS TO BE INSTALLED NO HIGHER THAN 10 FEET OR LESS THAN 6 FEET FROM ROADWAY LEVEL. THE CURBS ALONG OR ON THE PAVEMENT OR CEMENT IF CURB IS NOT PRESENT, SHALL BE PAINTED WITH A RED WEATHER RESISTANT PAINT IN ADDITION TO THE SIGNS.
- ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER SYSTEM. SAID SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF LAS VEGAS GUIDELINES FOR AUTOMATIC EMERGENCY VEHICLE ACCESS GATES.



ALT ST-LT DETAIL
(WHERE THERE IS NO SW ADJ. TO CURB)

CITY OF LAS VEGAS SEWER NOTES

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS, AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED. IN ALL CASES, THESE STANDARDS SHALL SUPERSEDE THE UNIFORM STANDARD SPECIFICATIONS. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATION BOOKS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS. ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CONTROLLING AGENCY.
- CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
- SEWER PIPE SHALL MEET ASTM D-3034, SDR 35 POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034, SDR 35 SPECIFICATIONS. INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE 11 GRAVEL.
- ALL MANHOLES IN PAVED STREETS 80' R/W AND LARGER, SHALL HAVE CONCRETE COLLARS.
- TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO 12" DIA. SIZE. CONNECTIONS TO 15" OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES.
- SEWER MAIN CROSSING OVER A WATER MAIN OR LESS THAN 18" UNDER A WATER MAIN, MUST BE REINFORCED CONCRETE ENCASED FOR A DISTANCE NOT LESS THAN TEN FEET (10') TO EACH SIDE OF THE CENTERLINE OF THE WATER MAIN.
- ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CONTROLLING AGENCY MUST BE CLASS "A" CONTRACTORS.
- THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE TENTH (0.1) OF A FOOT FROM THE APPROVED CONSTRUCTION PLANS. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED AND REPLACED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY.

LAS VEGAS FIRE DEPARTMENT

FIRE FLOW REQUIREMENT IS 1500 GALLONS/MIN AT 20 LBS./50 IN. RESIDUAL.

BASED ON:

SQUARE FOOTAGE: 1470 SF

LARGEST AREA BETWEEN SEPARATION WALLS N/A

HEIGHT: N/A

TYPE OF CONSTRUCTION: TYPE V-N

EXPOSURES: N/A

SPRINKLER SYSTEM: NONE

OCCUPANCY: SINGLE FAMILY

ROOF CONSTRUCTION: TILE

REVIEWED BY:

DATE:

PROVIDE FIRE LANE IDENTIFICATION PER CITY ORD. 3677

STREET LIGHT NOTE

ALL STREET LIGHTING INSTALLATION SHALL CONFORM TO SUMMERLIN IMPROVEMENT STANDARDS AND SUMMERLIN STANDARD DRAWINGS.

SEWER CONTRIBUTION

AVG = 0.0098 MGD

PEAK = 0.0323 MGD

Service laterals for Lots 1-9 Block 4, Lots 10-16 Block 2 and Lots 120-124 Block 3 will be tapped on existing main by Owner's contractor under direction of the LVVWD.

WATER CROSSING NOTE

THE FOLLOWING ARE THE REQUIREMENTS THAT MUST BE MET WHEN THERE IS A WATER-SEWER CROSSING:

- WHEN PROTECTION OF THE WATERLINE IS CONSIDERED, THE MINIMUM VERTICAL DISTANCE OF 18 INCHES MUST BE MAINTAINED WHEN THE WATER LINE IS INSTALLED OVER THE SEWER/STORM LINE. IF THIS DISTANCE CANNOT BE MAINTAINED BECAUSE OF PHYSICAL OBSTRUCTIONS OR THE WATERLINE MUST BE PLACED UNDER THE SEWER/STORM LINE, THE SEWER/STORM LINE MUST BE CONSTRUCTED WITH ANY ONE OF THE FOLLOWING:
- EXTRA HEAVY CAST IRON OR DUCTILE IRON PIPE
 - WATER SUPPLY QUALITY MATERIAL
 - ENCASEMENT WITH 4 INCHES MINIMUM OF CONCRETE OR SLEEVING WITH WATER QUALITY PIPE

EACH OF THESE PROVISIONS MUST BE EXTENDED FOR 10 FEET ON EITHER SIDE OF THE WATERLINE AT 90 DEGREES TO THE CROSSING.

ALT FH DETAIL

(WHERE THERE IS NO SW ADJ. TO CURB)

FIRE HYDRANT DETAIL

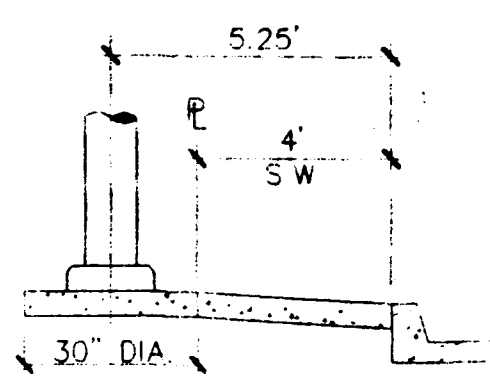
(WHERE THERE IS NO SW ADJ. TO CURB)

BENCHMARK

CONTROL POINT "SPARK" A BRASS CAP SET IN CONCRETE, STAMPED 4421 SET BY G. WALLACE ENGINEERING AND USED FOR BENCHMARK FOR SUMMERLIN CONSTRUCTION

ELEVATION: 2825.38 (NVGD 29)
ELEVATION EQUATION: (NVGD 29) ELEV + 2.437 = NAVD 88 ELEV

Call before you Dig
1-800-227-2600



STREET LIGHT DETAIL

PLASTER DEVELOPMENT
CITY OF LAS VEGAS

MASTER UTILITY PLAN

INDIAN HILLS
UNIT 2

CONSULTING ENGINEER PLANNERS & LAND SURVEYORS
117 SOUTH PANORAMA BOULEVARD
LAS VEGAS, NV 89101
REV. DATE BY

FILE

SEALED

NO. 4820-2

BY: RTS/JEM

DATE: NOV 95

SCALE: HORIZ. VERT.

SHEET

5

5055

"VOID"

"AS BUILT"

307Y-4410-2



LEGEND

SYMBOLS

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294. 3372" DIA. PIPES

295. 3384" DIA. PIPES

296. 3396" DIA. PIPES

297. 3408" DIA. PIPES

298. 3420" DIA. PIPES

299. 3432" DIA. PIPES

300. 3444" DIA. PIPES

301. 3456" DIA. PIPES

302. 3468" DIA. PIPES

303. 3480" DIA. PIPES

304. 3492" DIA. PIPES

305. 3504" DIA. PIPES

306. 3516" DIA. PIPES

307. 3528" DIA. PIPES

308. 3540" DIA. PIPES

309. 3552" DIA. PIPES

310. 3564" DIA. PIPES

311. 3576" DIA. PIPES

312. 3588" DIA. PIPES

313. 3600" DIA. PIPES

314. 3612" DIA. PIPES

315. 3624" DIA. PIPES

316. 3636" DIA. PIPES

317. 3648" DIA. PIPES

318. 3660" DIA. PIPES

319. 3672" DIA. PIPES

320. 3684" DIA. PIPES

321. 3696" DIA. PIPES

322. 3708" DIA. PIPES

323. 3720" DIA. PIPES

324. 3732" DIA. PIPES

325. 3744" DIA. PIPES

326. 3756" DIA. PIPES

327. 3768" DIA. PIPES

328. 3780" DIA. PIPES

329. 3792" DIA. PIPES

330. 3804" DIA. PIPES

331. 3816" DIA. PIPES

332. 3828" DIA. PIPES

333. 3840" DIA. PIPES

334. 3852" DIA. PIPES

335. 3864" DIA. PIPES

336. 3876" DIA. PIPES

337. 3888" DIA. PIPES

338. 3900" DIA. PIPES

339. 3912" DIA. PIPES

340. 3924" DIA. PIPES

341. 3936" DIA. PIPES

342. 3948" DIA. PIPES

343. 3960" DIA. PIPES

344. 3972" DIA. PIPES

345. 3984" DIA. PIPES

346. 3996" DIA. PIPES

347. 4008" DIA. PIPES

348. 4020" DIA. PIPES

349. 4032" DIA. PIPES

350. 4044" DIA. PIPES

351. 4056" DIA. PIPES

352. 4068" DIA. PIPES

353. 4080" DIA. PIPES

354. 4092" DIA. PIPES

355. 4104" DIA. PIPES

356. 4116" DIA. PIPES

357. 4128" DIA. PIPES

358. 4140" DIA. PIPES

359. 4152" DIA. PIPES

360. 4164" DIA. PIPES

361. 4176" DIA. PIPES

362. 4188" DIA. PIPES

363. 4200" DIA. PIPES

364. 4212" DIA. PIPES

365. 4224" DIA. PIPES

366. 4236" DIA. PIPES

367. 4248" DIA. PIPES

368. 4260" DIA. PIPES

369. 4272" DIA. PIPES

370. 4284" DIA. PIPES

371. 4296" DIA. PIPES

372. 4308" DIA. PIPES

373. 4320" DIA. PIPES

374. 4332" DIA. PIPES

375. 4344" DIA. PIPES

376. 4356" DIA. PIPES

377. 4368" DIA. PIPES

378. 4380" DIA. PIPES

379. 4392" DIA. PIPES

380. 4404" DIA. PIPES

381. 4416" DIA. PIPES

382. 4428" DIA. PIPES

383. 4440" DIA. PIPES

384. 4452" DIA. PIPES

385. 4464" DIA. PIPES

386. 4476" DIA. PIPES

387. 4488" DIA. PIPES

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392. 4548" DIA. PIPES

393. 4560" DIA. PIPES

394. 4572" DIA. PIPES

395. 4584" DIA. PIPES

396. 4596" DIA. PIPES

397. 4608" DIA. PIPES

398. 4620" DIA. PIPES

399. 4632" DIA. PIPES

400. 4644" DIA. PIPES

401. 4656" DIA. PIPES

402. 4668" DIA. PIPES

403. 4680" DIA. PIPES

404. 4692" DIA. PIPES

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418. 4860" DIA. PIPES

419. 4872" DIA. PIPES

420. 4884" DIA. PIPES

421. 4896" DIA. PIPES

422. 4908" DIA. PIPES

423. 4920" DIA. PIPES

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428. 4980" DIA. PIPES

429. 4992" DIA. PIPES

430. 5004" DIA. PIPES

431. 5016" DIA. PIPES

432. 5028" DIA. PIPES

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434. 5052" DIA. PIPES

435. 5064" DIA. PIPES

436. 5076" DIA. PIPES

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438. 5100" DIA. PIPES

439. 5112" DIA. PIPES

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452. 5268" DIA. PIPES

453. 5280" DIA. PIPES

454. 5292" DIA. PIPES

455. 5304" DIA. PIPES

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