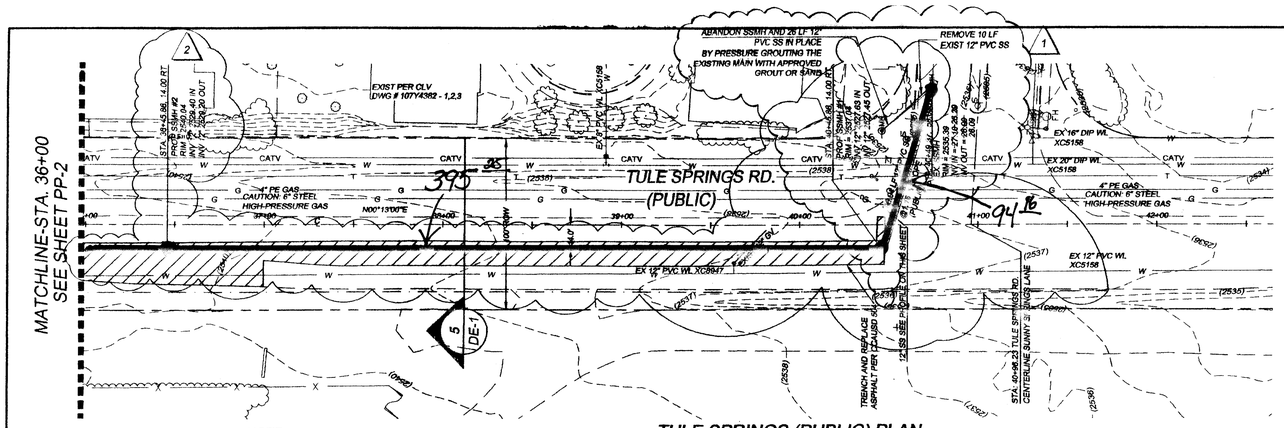


NOTE:
CALL SOUTHWEST GAS AT 365-2296 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH-PRESSURE GAS LINES

TULE SPRINGS (PUBLIC) PLAN
STA. 36+00 TO STA. 40+45.86

NOTE:
SEE SHEET TC-1 FOR SIGHT VISIBILITY ZONES

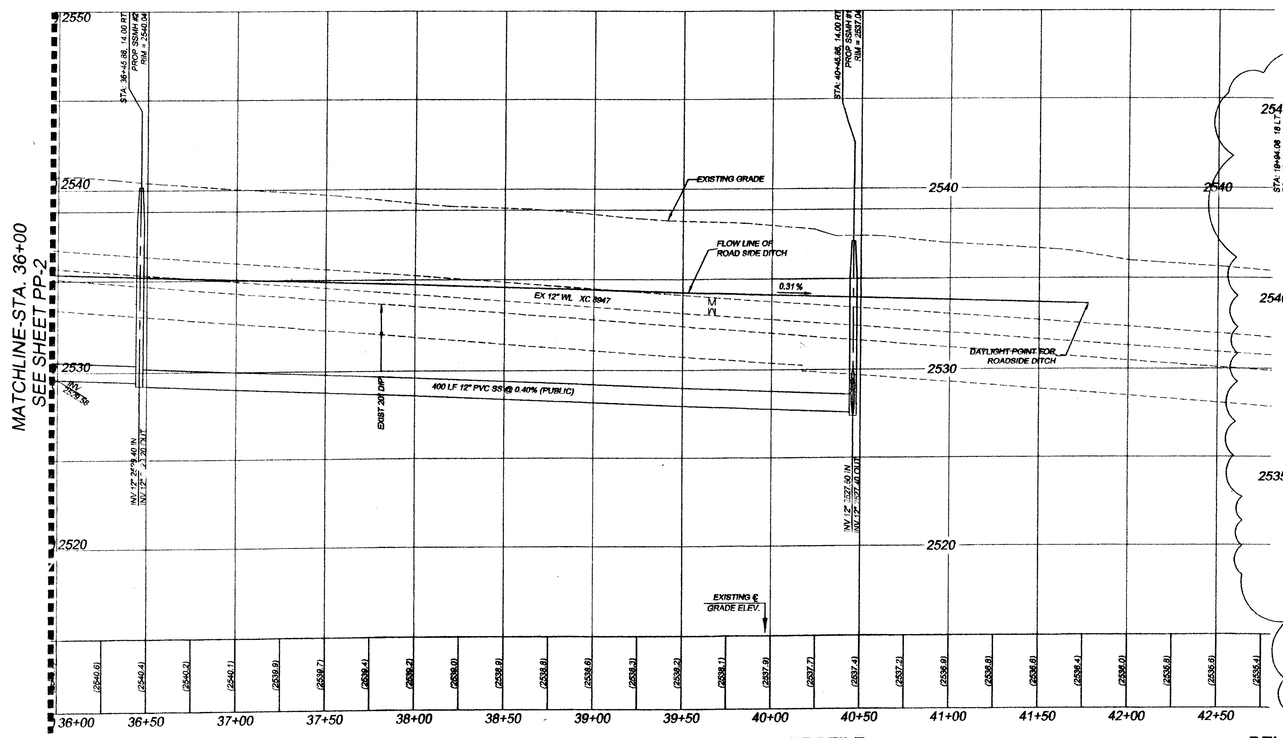
ENGINEER'S NOTES

ANNULAR SPACE BETWEEN PIPE AND CASING SHALL BE FILLED WITH CLASS I CLSM.
ESN.038A REVISED 4/26/05

NEVADA DEPARTMENT OF TRANSPORTATION (NDOT) PERMIT REQUIRED

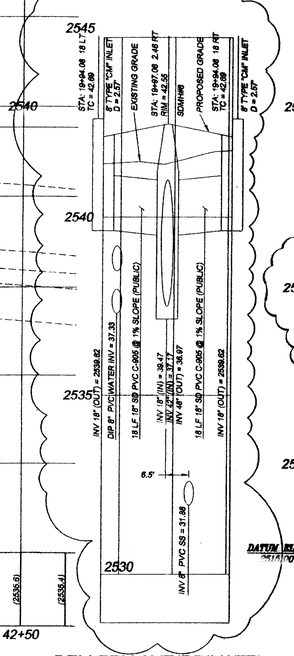
AN APPROVED NDOT OCCUPANCY PERMIT SHALL BE OBTAINED THROUGH THE DISTRICT PRIOR TO ANY CONSTRUCTION WITHIN THE NDOT RIGHT-OF-WAY. PLANS SHOWING WORK IN NDOT RIGHT-OF-WAY MUST SHOW NDOT STATIONING. THE DEVELOPER ASSUMES ALL LIABILITY FOR WORK CONDUCTED UNDER THE DISTRICT OBTAINED PERMIT THROUGH WARRANTY EXPIRATION. ESN.023 REVISED 6/1/04

NOTE: NDOT PERMIT REQUIRED FOR ALL WORK IN NDOT ROW



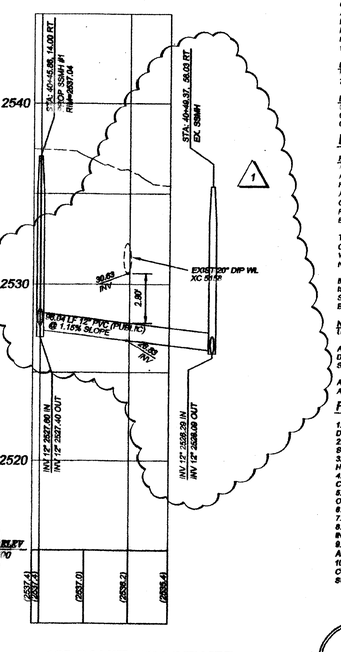
TULE SPRINGS (PUBLIC) PROFILE
STA. 36+00 TO STA. 40+45.86

HORIZ: 1" = 40'
VERT: 1" = 4'



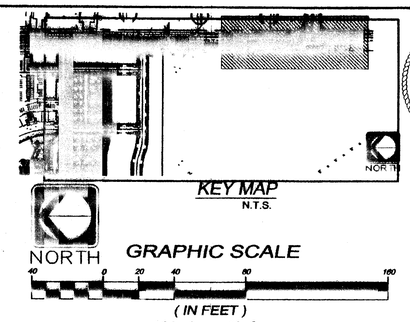
BELLFRY AVE(PRIVATE) STORM DRAIN LATERAL PROFILE

HORIZ: 1" = 20'
VERT: 1" = 2'



12" SANITARY SEWER EXTENSION TO EXISTING MH

HORIZ: 1" = 40'
VERT: 1" = 4'



KEY MAP
N.T.S.

NORTH
GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

ENGINEER'S NOTES

1. ALL PRIVATE STREETS ARE P.U.E.'S, PUBLIC SEWER EASEMENTS & PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED.
2. ALL OFF-SITE IMPROVEMENT CONSTRUCTION SHALL CONFORM TO THE UNIFORM STANDARD SPECIFICATIONS AND STANDARD DRAWINGS CLARK COUNTY AREA NEVADA AND CLARK COUNTY SUPPLEMENT TO UNIFORM STANDARD DRAWINGS AND SPECIFICATIONS, LATEST REVISION.
3. FINAL ASPHALTIC CONCRETE (AC) PAVEMENT SURFACES SHALL BE ONE-HALF INCH ABOVE THE TOP OF GUTTER (INCLUDING OPEN GRADE).
4. PRIVATE STREETS AND/OR DRIVEWAYS REFLECTED ON THESE PLANS ARE TO BE INSPECTED BY A CLV INSPECTOR.
5. ADD 2000 TO ALL ELEVATIONS TO GET ACTUAL ELEVATIONS
6. THESE PLANS SHALL NOT, IN PART OR IN WHOLE, BE USED FOR CONSTRUCTION UNTIL APPROVED AND SIGNED BY THE GOVERNMENT AGENCIES.
7. ENGINEER TO BE NOTIFIED OF ANY DISCREPANCIES IMMEDIATELY.
8. THE PROPOSED STORM DRAIN SHALL BE INSTALLED WITH WATERTIGHT JOINTS, WHEN LOCATED WITH EXTERIOR PIPE WALLS CLOSER TO EXISTING WATER THAN 10 FEET, THE JOINTS SHALL BE CONSTRUCTED PER THE UDACS SECTION 2.16.01.B.2.c.iii.
9. EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDER- GROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION. ALL DISCREPANCIES MUST BE IMMEDIATELY REPORTED TO THE ENGINEER. CALL BEFORE YOU DIG: 1-800-77-2600.

BENCHMARK: GLVWD 15WN: CITY OF LAS VEGAS BENCHMARK, RIVET & PLATE IN TOP OF CURB @ THE NORTHEAST CORNER OF FARM ROAD AND TULE SPRINGS ROAD (FORMALLY DURANGO DRIVE) = 774.7072m = 2541.69ft.

BASIS OF BEARINGS: NORTH 00°13'00" EAST, BEING THE EAST LINE OF THE SOUTHEAST QUARTER (SE ¼) OF SECTION 12, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., SAID LINE ALSO BEING THE CENTERLINE OF TULE SPRINGS ROAD AS SHOWN BY PLAT THEREOF ON FILE IN BOOK 81, PAGE 86 IN THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

LAS VEGAS VALLEY WATER DISTRICT NOTES:

REDUCED PRESSURE PRINCIPLE ASSEMBLY (1) 1-12", (2) 1": APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 11 A. NO WATER SHALL BE TAKEN FROM A SERVICE PROVIDING BACK FLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVVWD.
ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED A..) CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY.
EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION. ESN.026

THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE-REDUCING VALVES BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRV'S ARE THE DEVELOPER'S RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES. ESN.036

INSTALL WATER LINE IN STEEL CASING PER UDACS PLATES NO. 15 AND 16. MINIMUM 18-INCH CLEARANCE IS REQUIRED ABOVE THE TOP OF THE CASING. FROM THE UPPER BENDS THROUGHOUT THE LOWERED SECTION OF PIPE, DUCTILE IRON PIPE WITH RESTRAINED JOINTS IS REQUIRED. IN ADDITION, THRUST BLOCKS ARE TO BE INSTALLED AT THE UPPER BENDS. ESN.038

NOTE: INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER UDACS PLATE NO. 27 ESN.062

ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.19 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES. ESN.064

ADJUST WATER VALVE BOX TO FINISHED GRADE PER UDACS PLATE NO. 8 VALVE SHALL BE ACCESSIBLE AT ALL TIMES ESN.035

PROCEDURES TO RELOCATE A CORROSION TEST STATION:

1. EXPOSE THE TEST STATION(S) AND LABEL ALL LEADS ACCORDING TO THE TYPICAL TEST BOARD DETAIL.
2. THE LEADS THAT ARE CONNECTED TO THE PIPE REQUIRE #8 COPPER WIRE WITH A HMWPE JACKET SUCH AS RAYCHEM PERMARAD.
3. THE LEAD THAT IS CONNECTED TO THE REFERENCE CELL REQUIRES #14 COPPER WIRE WITH A HMWPE JACKET SUCH AS RAYCHEM PERMARAD.
4. CONNECT THE TWO WIRES TO BE SPLICED WITH A COPPER BUTT CONNECTION USING THE PROPER CRIMPING TOOL.
5. MAKE EACH SPLICE USING A SCOTCHCAST RESIN SPLICING KIT, DURCO-CAST UNIVERSAL SPLICE KIT, OR A RAYCHEM ANODE SPLICE ENCAPSULATION KIT.
6. RECONNECT THE TEST BOARD TO PROPER LEADS, AND PLACE THE TEST BOX AT THE NEW SITE.
7. THE TEST BOX AT THE NEW SITE WILL BE INSTALLED ACCORDING TO THE TYPICAL TEST BOX DETAIL.
8. ALL TEST LEADS AND ANODE LEADS INSIDE THE TEST BOX SHALL BE BUNDLED TOGETHER AT 6 INCH INTERVALS WITH NYLON TIES AND SHALL BE PROVIDED WITH A MINIMUM OF 4 FEET SLACK.
9. ALL TEST LEADS AND ANODE LEADS SHALL BE COLOR CODED WITH COLORED TAPE AT EACH END, AND AT 4 FEET INTERVALS.
10. RELOCATED TEST STATION TO BE TESTED BY CERTIFIED CATHODIC PROTECTION SPECIALIST, CORROSION SPECIALIST, OR REGISTERED PROFESSIONAL CORROSION ENGINEER. RESULTS TO BE SUBMITTED IN WRITING TO LVVWD CONSTRUCTION DIVISION. ESN.080

LEGEND

	EXISTING	PROPOSED
RIGHT OF WAY/PROPERTY		
CENTER		
EASEMENT		
WATER	W	W
SANITARY SEWER W/MANHOLE	SS	SS
GAS	G	G
STORM DRAIN W/ MANHOLE	SD	SD
POWER LINE(OVERHEAD)	E	E
CABLE TELEVISION	CATV	CATV
TELEPHONE	T	T
FIRE HYDRANT		
WATER VALVES		
STREETLIGHTS		
SCREEN WALL		
GRADE BREAK		
EDGE OF PAVEMENT		
SAWCUT LINE		
"A" CURB		
"L" CURB		
TRAFFIC SIGNS		
CONTOUR LINE - MAJOR	(2250)	2250
CONTOUR LINE - MINOR	(2251)	2251
ELEVATION TAGS	(56.49) TC	56.49 TC
FINISHED FLOOR ELEVATION	PAD = 26.47 FF = 28.65	PAD = 26.47 FF = 28.65
SLOPE	(2.0)%	2.0%

WATER NOTES
(PUBLIC STREET IMPROVEMENTS)

No.	ITEM
1	MECHANICAL JOINT TAPPING SLEEVE & TAPPING VALVE PER UDACS PLATE # 22, SIZE AND STATION PER PLAN.
2	SERVICE SADDLE PER UDACS PLATE # 1D.
3	INSTALL 1" IRR. METER WITH 1" RPPA PER UDACS 1D AND 11A.
4	STUB AND CAP FOR FUTURE USE CONNECTION PER UDACS PLATE # 4A
5	INSTALL FIRE HYDRANT, 8" LATERAL, 6" GATE VALVE AND ANY APPURTENANCES NECESSARY FOR FUNCTIONAL FIRE HYDRANT PER UDACS PLATE #7.
6	TRENCH AND BACKFILL WATER INSTALL PER CCAUSD PLATE # 504.
7	FIELD LOCATE EX. GATE VALVE & ADJUST TO PROPOSED FINISH GRADE
8	INSTALL STEEL CASING PER UDACS PLATES # 15 & 16
9	INSTALL 12" x 10" MJ TAPPING SLEEVE & 10" TAPPING VALVE PER UDACS PLATE # 22
10	INSTALL 45° BEND (SAME SIZE AS MAIN)

CONSTRUCTION NOTES
(PUBLIC STREET IMPROVEMENTS)

No.	ITEM
1	CONSTRUCT "L" TYPE CURB AND GUTTER, PER CCAUSD No. 86
2	CONSTRUCT DRIVEWAY & 8" CROSS-GUTTER, PER CCAUSD No. 78,72A & 75
3	CONSTRUCT 10' SIDEWALK, PER CCAUSD No. 234
4	CONSTRUCT SIDEWALK RAMP CASE II, PER CCAUSD No. 235; CONCRETE OF RAMPS SHALL BE COLORED TO MATCH PAVER COLOR, SHADY RED 488 OR CLV APPROVED COLOR & TC STDS
5	CONSTRUCT TYPE "A" ISLAND CURB, PER CCAUSD No. 89
6	CONSTRUCT TWO (2) SIDEWALK UNDERDRAINS, PER CCAUSD No. 236
7	CONSTRUCT 4' U-CHANNEL, PER DETAIL 11 / DE-1
8	INSTALL 1'x1' CONCRETE PAVERS @45° SHADY RED 488 OR CLV APPROVED COLOR

SEWER NOTES
(PUBLIC STREET IMPROVEMENTS)

No.	ITEM
1	CONSTRUCT 48" TYPE I MANHOLE PER CCAUSD # 403
2	12" PVC PIPE
3	STUB 6" SS AND CAP FOR FUTURE USE

SOILS REPORT NOTE:

ALL WORK SHALL CONFORM TO THE GEOTECHNICAL REPORT PREPARED BY:
FIRM NAME: OWENS GEOTECHNICAL, INC.
PROJECT No.: E-03-291
DATED: NOVEMBER 8, 2003

CITY OF LAS VEGAS FIRE DEPARTMENT APPROVAL
BY: _____ DATE: 8-4-05

APPROVED FOR CONSTRUCTION ESN.016
(PROJECT No. 110183)
1st appl 6/29/05
LAS VEGAS VALLEY WATER DISTRICT (LVVWD # 110183) 8/04/05 DATE

Call before you UnderGround 1-702-455-7511 (CLARK COUNTY TRAFFIC OPERATIONS)
1-702-229-8611 (LAS VEGAS VALLEY TRAFFIC SYSTEM)

Avoid overhead power line contact
Call before you OVERHEAD 1-702-593-6111 (NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT)

Avoid cutting underground utility lines. It's costly.
Call before you Dig. 1-800-227-2600 (UNDERGROUND SERVICE)

105960

DRAWING ISSUE LOG:

REV	DESCRIPTION	DATE

The Kelch Companies TKC
444 East Warm Springs Road, Suite 110, Las Vegas, Nevada 89119
Phone (702) 295-6005 Fax (702) 295-6015
Real Estate Land Planning Civil Engineering Land Surveying Mapping Environmental Services

carina CORPORATION

THE VILLAGE OF CENTENNIAL SPRINGS
BUILDING-12 & O/S-PLAN & PROFILE
TULE SPRINGS STA:36+00 TO 40+45.86

The Village at Centennial Springs

REVISIONS:

REV.	DESCRIPTION	DATE	INITIALS
1	REVISED SANITARY SEWER	8-15-08	
2	REPLOT-REVISED SANITARY SEWER DESIGN-ADDED LATERAL PROFILE	7-14-08	

DATE: August 02, 2005
JOB NO: 052007.00
FILE NAME:
DO NOT SCALE DRAWINGS

SHEET NO: 13 OF 27
PP-3
CLV # 10744867-B12-05