

BACKFILL AS REQUIRED BY LOCAL CODES IF IN PUBLIC RIGHT-OF-WAY. NATURAL BACKFILL SHALL CONTAIN NO ROCKS LARGER THAN 3" TELEPHONE TERRA-TAPE POWER TERRA-TAPE EXISTING 2-4" CONDUIT PROPOSE 2-2" CONDUIT

APPROVED SAND 4" BELOW 8" ABOVE CONDUIT COMPACTED TO 90% RELATIVE DENSITY

TRENCH DETAIL "A-A"

NOTE "A"
3/4" TERMINAL BACKBOARD TREATED WITH FIRE RETARDANT PAINT OR SEALER. WITH # 6 GROUND WIRE CONNECTED TO APPROVED COMMUNICATIONS GROUNDING SOURCE AS DETERMINED BY THE ELECTRICAL ENGINEER FOR THIS BUILDING OR DEVELOPER.

LEGEND

- PROPOSED CONDUIT
- EXISTING CONDUIT
- MANHOLE
- 400 PULL BOX 3'-0" x 5'-0" x 4'-0"
- 200 PULL BOX 2'-5" x 4'-0" x 4'-0"
- 30 PULL BOX 17" x 30" x 30"
- 18 HAND HOLE 9" x 14"
- EMBARQ 100 TERMINAL CABINET 45" x 48" x 6" (100 PAIR)
- EMBARQ 50 TERMINAL CABINET 36" x 36" x 6" (25 to 50 PAIR)
- 3/4" PLYWOOD BACKBOARD
- # 6 GROUND WIRE

P.V.C. - D.B. (DIRECT BURIAL) GRADE D.B. 60 FOR 1-1/4", 2", & 3" D.B. 100 FOR 4"

90° SWEEPS - SCHEDULE 40 (TYPICAL) OR RIGID GALVANIZED STEEL WITH DOUBLE-WRAPPED 10 MIL CORROSION PROTECTION TAPE. (AS SHOWN)

MANHOLE (SEE DRAWING FOR SIZE)

TELEPHONE PULL BOX WITH TWO (2) HINGED ALUMINUM TORSION-ASSISTED TRAFFIC RATED LIDS MARKED "TELCO", GALVANIZED STEEL ADJUSTING FRAME, AND 4-18 HOLE CABLE RACKS (2 EA. SIDE)

UNDERWRITER LABORATORY APPROVED, RAIN-TIGHT WITH A NON-LOCKING, SIDE-HINGED DOOR, EQUIPPED INSIDE WITH A 3/4" PLYWOOD BACKBOARD (1" SPALLER ON ALL SIDES, CENTERED IN CABINET) SECURED WITH RECESSED MOUNTING HARDWARE AND A # 6 GROUND WIRE CONNECTED TO AN APPROVED GROUND SOURCE (SEE GROUND NOTE BELOW).

TELEPHONE TERMINAL BACKBOARD (T.T.B.) - TREATED WITH FIRE RETARDANT PAINT OR SEALER. BACKBOARDS SMALLER THAN 4" x 8" (i.e. 2" x 2" & 4" x 4") SHOULD BE MOUNTED 40" ABOVE THE FLOOR.

CONNECT TO THE APPROVED COMMUNICATIONS GROUNDING SOURCE AS DETERMINED BY THE ELECTRICAL ENGINEER FOR THIS BUILDING OR DEVELOPMENT.

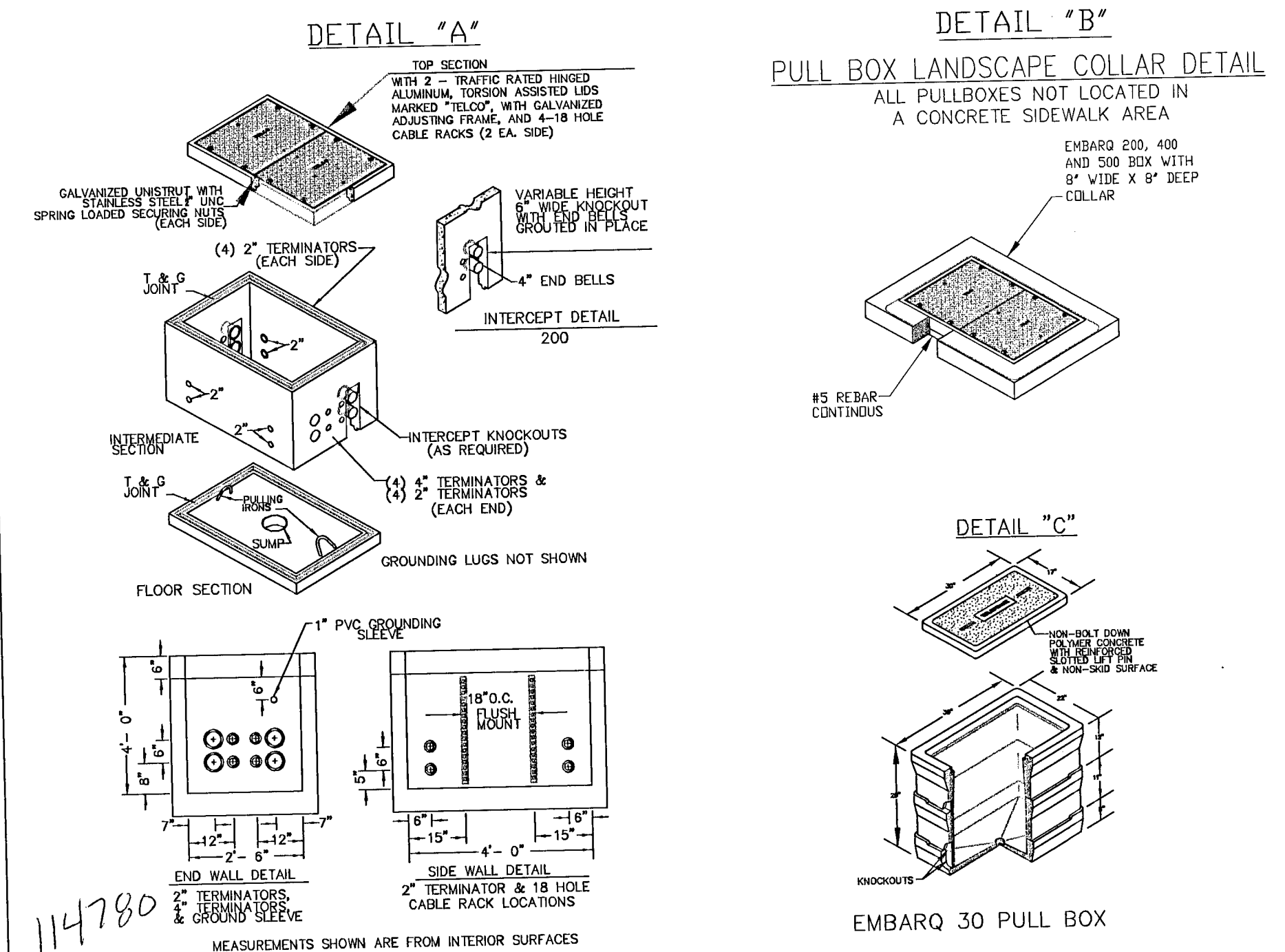
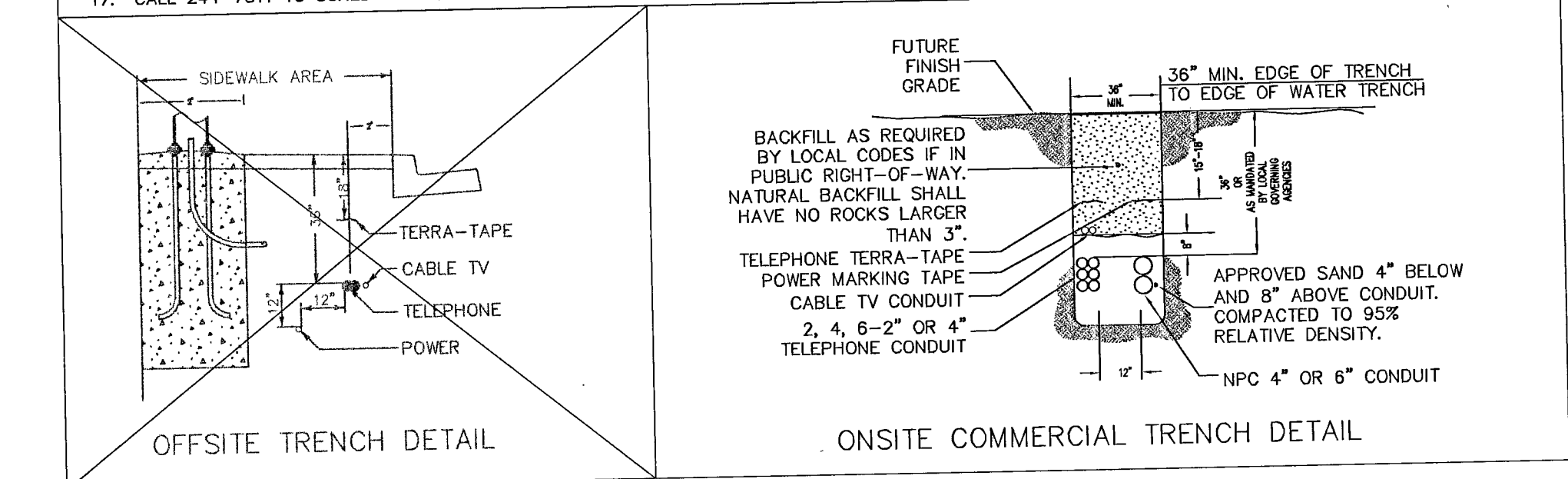
VICINITY MAP N.T.S. T19S R60E SEC. 29

SELECT BACKFILL FINISHED GRADE 18" EMBARQ MARKING TAPE 36" PVC CONDUIT TRENCH SAND OR CONCRETE AS SPECIFIED PER JOB DRAWING.

EMBARQ owned conduit 2-2" Sch. 40 Rigid Galvanized Steel 36" Fiber Optic with 1/2" (10 mil) corrosion protective top or 2-2" Sch. 40 PVC conduit. (See plan for type)

RISER DETAIL (TYPICAL)

- CONSTRUCTION NOTES**
- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST ISSUE OF THE EMBARQ UNDERGROUND SPECIFICATIONS.
 - ALL CONDUIT, TRENCHING, BACKFILLING AND SUBSTRUCTURES ARE TO BE PROVIDED BY THE DEVELOPER AND CONFORM WITH EMBARQ STANDARDS UNLESS OTHERWISE SPECIFIED.
 - TRENCHING AND TELEPHONE SUBSTRUCTURES ARE TO BE PLACED IN THE SIDEWALK AREA WHENEVER POSSIBLE. ALL TRENCHING WILL BE OF A MINIMUM DEPTH TO MAINTAIN 36" OF COVER OVER UNDERGROUND TELEPHONE FACILITIES AND 12" MINIMUM SEPARATION FROM FOREIGN UTILITIES.
 - ALL PULL BOXES (2'-5" x 4'-0" AND LARGER) AND MANHOLES ARE TO BE GROUNDED WITH A 3/8" x 1/16" TINNED SOFT COPPER BONDING RIBBON PLACED VERTICALLY AROUND THE BOTTOM OF THE BOX WITH 3" ENDS STUBBED INSIDE.
 - WHEN EXISTING TELEPHONE FACILITIES (i.e. POLES, MANHOLES, PULL BOXES, CONDUIT, TERMINALS, etc.) ARE AFFECTED BY IMPROVEMENTS (REQUIRED BY LOCAL ORDINANCE SUCH AS STREET LIGHTS, SIDEWALK, GUTTERS, etc.) THE DEVELOPER SHALL BE RESPONSIBLE FOR THE ADJUSTMENT OF THESE FACILITIES AS REQUIRED.
 - PLYWOOD BACKBOARDS ARE TO BE TREATED WITH FIRE RETARDANT MATERIAL, PAINT, OR SEALER.
 - THE CONTRACTOR SHALL PROVIDE AND INSTALL A MEASURING TAPE CONSISTING OF A WATER PROOF, 400 POUND TENSILE STRENGTH, MARKED IN ONE FOOT OR LESS INCREMENTS IN AT LEAST ONE DUCT OF ALL CONDUIT SECTIONS. ALL OTHER DUCTS IN A MULTIPLE DUCT SYSTEM WILL HAVE A 3/32 INCH JET LINE PULL STRING WITH 400 POUND TENSILE STRENGTH.
 - THE CONTRACTOR SHALL PROVE AND MANDREL ALL CONDUIT AFTER BACKFILLING WHILE AN EMBARQ INSPECTOR IS PRESENT. MANDREL SIZE IS TO BE 1/4" SMALLER THAN THE INSIDE DIAMETER OF THE CONDUIT.
 - IN ORDER TO INSURE ADEQUATE FACILITIES ARE PROVIDED FOR THIS PROJECT, IT IS IMPERATIVE THAT THE CONDUIT RECOMMENDATION NOT BE CHANGED WITHOUT EMBARQ OUTSIDE PLANT ENGINEERING APPROVAL.
 - CONCRETE ENCASEMENT SHALL CONSIST OF 3/4" AGGREGATE 6 SACKS, TYPE V, PORTLAND CEMENT CONCRETE. THE ENCASEMENT SHALL BE A MINIMUM OF 2" BETWEEN THE CONDUIT AND A MINIMUM OF 3" ON THE TOP, BOTTOM AND SIDES OF THE DUCT BANK.
 - ALL TERMINALS, BACKBOARDS, CABINETS, ETC., SHALL BE EQUIPPED WITH A #6 GAUGE GROUND WIRE, RUN TO AN APPROVED GROUND SOURCE.
 - A POLYETHYLENE DUCT PLUG SHALL BE INSTALLED IN ALL CONDUIT WHERE TERMINATED OR STUBBED.
 - PROTECTIVE POSTS SHALL BE 4" RIGID STEEL PIPE, SIX FEET IN LENGTH, FILLED AND SET IN CONCRETE AT LOCATIONS SHOWN. THE TOP OF THE PROTECTIVE POST SHALL BE 18 INCHES ABOVE THE PROPOSED FINISHED GRADE AND PAINTED WITH YELLOW STREET MARKING PAINT.
 - IF EXISTING TERMINATORS ARE NOT UTILIZED TO JOIN SUBSTRUCTURES, CALL 244-7811 FOR AN EMBARQ INSPECTOR, 24 HOURS PRIOR TO PENETRATING ANY EMBARQ MANHOLE OR PULL BOX. THE ENTRANCE LOCATION IS VERY CRITICAL AND WILL BE DETERMINED AT THAT TIME. CORE DRILLING AND PROPER GROUTING IS MANDATORY. ENTERING THE SIDE OF AN EMBARQ MANHOLE OR PULL BOX IS NOT PERMITTED UNLESS APPROVED BY EMBARQ.
 - ALL TELEPHONE BOXES WILL BE REQUIRED TO HAVE AN 8" x 8" CONCRETE COLLAR POURED AROUND THE TOP PORTION OF THE BOX PER EMBARQ STANDARDS, EXCEPT WHEN BOXES ARE TO BE LOCATED IN A CONCRETE SIDEWALK AREA. THESE FOOTAGES MUST BE RECEIVED SIX WEEKS PRIOR TO SERVICE INSTALLATION DUE DATES.
 - CALL 244-7811 TO SCHEDULE EMBARQ INSPECTION 24 HOURS PRIOR TO STARTING ANY WORK.



- LEGEND**
- 2-2" CONDUIT -DB-60 (EST. 669') BY DEVELOPER
 - 2" RGS 36" 90° BENDS DOUBLE WRAPPED 10 MIL TAPE (QTY 6 EA) BY DEVELOPER
 - PLACE INTERCEPT 200 PULL BOX (QTY 1 EA) 2'-2"x4'-0"x4'-0" WITH 2 - TRAFFIC RATED HINGED ALUMINUM, TORSION ASSISTED LIDS MARKED "TELCO", WITH GALVANIZED ADJUSTING FRAME, AND 4-18 HOLE CABLE RACKS (2 EA. SIDE) A. PULL BOX FURNISHED AND INTALLED BY DEVELOPER.
 - PLACE EMBARQ 30 PULL BOX (QTY 2 EA) 17"x30"x30" WITH CONCRETE COLLAR A. PULL BOX FURNISHED AND INTALLED BY DEVELOPER.
 - PLACE 2'x2'x3/4" BACKBOARD WITH 3/4" PLYWOOD & SOLID COPPER GROUND WIRE. (QTY 1 EA) BY DEVELOPER

IMPORTANT NOTICE!
SERVICE CANNOT BE PROVIDED WITHOUT APPROVED OPEN TRENCH AND FINAL INSPECTION BY EMBARQ INSPECTOR

DISCLAIMER NOTE:
UTILITY LOCATIONS SHOWN ARE APPROXIMATELY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. EMBARQ ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

APPROVED FOR CONSTRUCTION
THIS APPROVAL IS FOR WORK IN CLV RW OR CLV EASEMENT ONLY. OBTAINING PERMISSION OR EASEMENTS FOR WORK SHOWN ON PRIVATE PROPERTY IS THE RESPONSIBILITY OF THE UTILITY

Dennis B. Mayo 1/2/16
APPROVAL DATE

CONTRACTOR / DEVELOPER NOTE

- THE DEVELOPER/CONTRACTOR SHALL CALL 244-7811 TO SCHEDULE INSPECTIONS 24 HOURS IN ADVANCE. REQUESTS RECEIVED AFTER 11:00 AM MAY NOT BE SCHEDULED FOR THE FOLLOWING WORKDAY.
- ANY MODIFICATIONS TO THE EMBARQ DESIGN MUST BE APPROVED BY THE ENGINEER.
- THESE PLANS WILL BE VALID FOR SIX MONTHS FROM DATE OF ISSUE.

EASEMENT / PERMIT CERTIFICATION

EASEMENT / PERMIT REQUIRED: YES NO

EASEMENT / PERMIT OBTAINED: YES NO

DATE EASEMENT / PERMIT OBTAINED: _____

ROW ENGINEER SIGNATURE: _____

EMBARQ EASEMENT/PERMIT NUMBER: _____

REMARKS: _____

CITY OF LAS VEGAS PERMIT REQUIRED*

DEVELOPER/CONTRACTOR SHALL OBTAIN A CITY PERMIT BEFORE ANY EXCAVATION WORK WITHIN CITY OF LAS VEGAS RIGHT OF WAY

* EMBARQ INSPECTOR WILL VERIFY CITY PERMIT FOR WORK DONE WITHIN CITY OF LAS VEGAS RIGHT-OF-WAY

INSPECTOR: _____ DATE: _____

OWNER/CONTACT: PETER N. MEYERHOFER, P.E.
TELEPHONE: (702) 734-5666

PEGGY ORTIZ 244-7807 1/16/16
REVIEWED BY FACILITY ENGINEER DATE

NO.	REVISION	ENGR. MGR. DATE
1		
2		
3		

EMBARQ PROPRIETARY

CONSTRUCTION PERMIT REQUIRED BY CONTRACTOR

FILE: UNDERGROUND CONDUIT
REQUIREMENT for DURANGO RILEY PARK
DURANGO DR. & RILEY ST.

DESIGNER: CORREA
DATE: 1/2/16
SCALE: 1" = 40'

OWNER: PETER N. MEYERHOFER, P.E.
PHONE: (702) 734-5666

PROJECT NO: 24202236
SHEET NO: N5
DATE: 1/2/16

650.100-TEL

RECEIVED NOV 24 2008 City of Las Vegas Land Development

JUL 0 8 2008 #28772 DURANGO RILEY PARK PHASE I