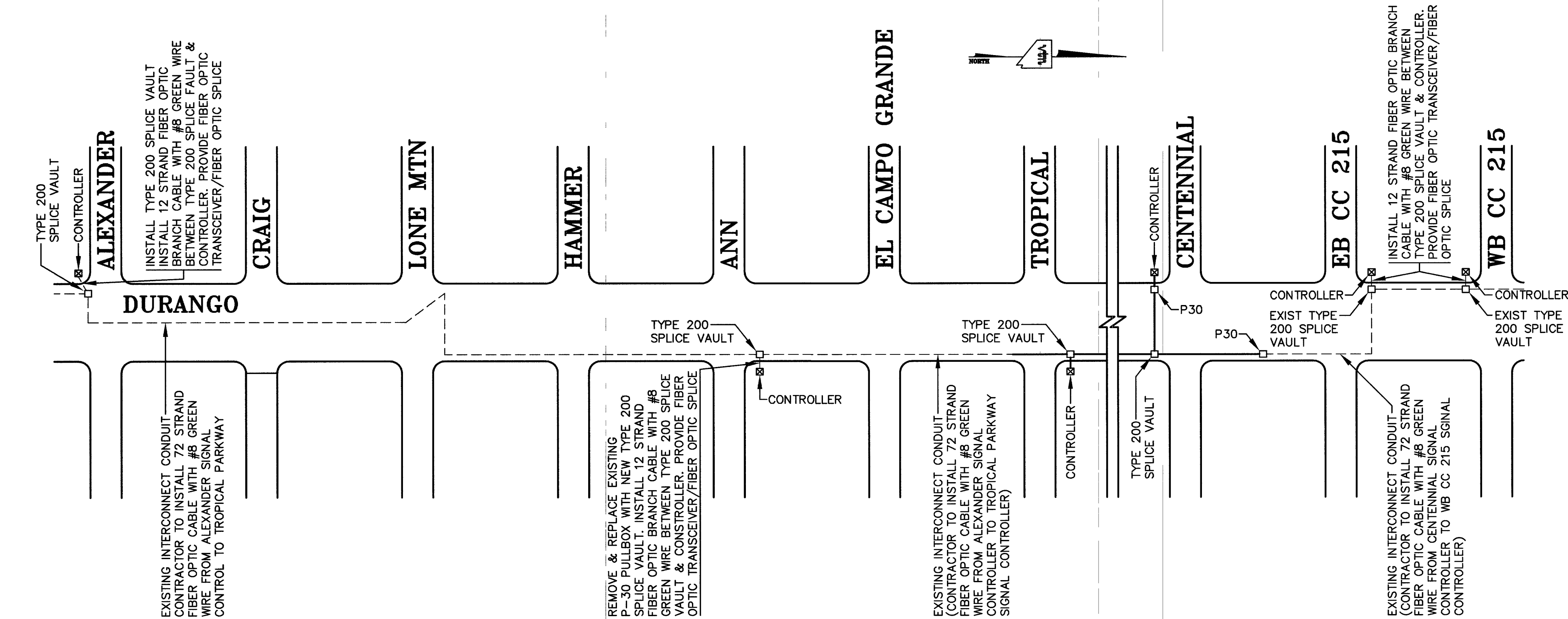




FIBER OPTIC DETAIL

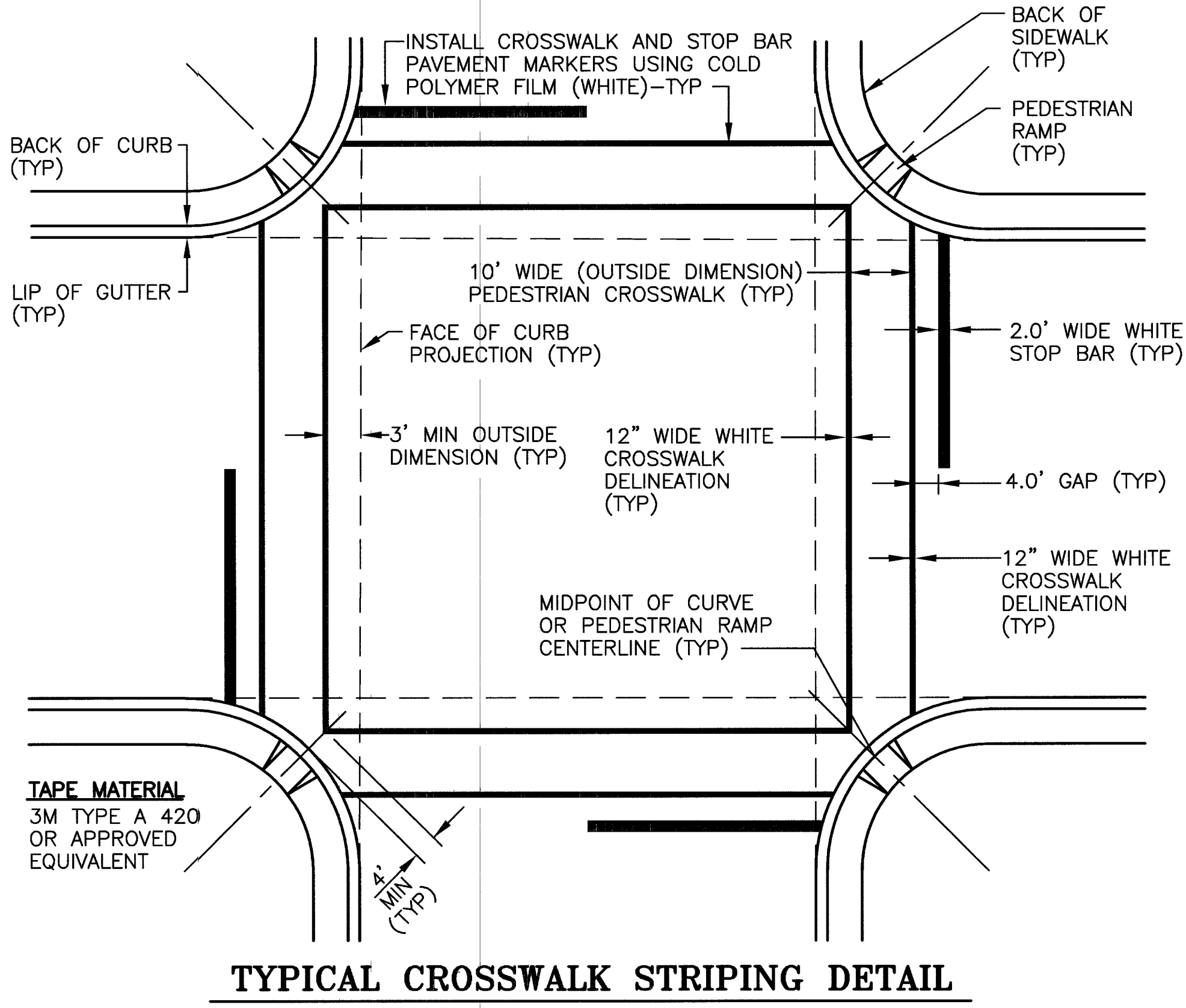
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GENERAL NOTES:

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "IMPROVEMENT STANDARDS", DEPT. OF PUBLIC WORKS, CLARK COUNTY NEVADA-(LATEST EDITION) AND THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS" CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, (LATEST EDITION)", UNLESS OTHERWISE SPECIFIED BY NOTE ON THE PLANS AND / OR SPECIAL PROVISIONS.
- ALL UTILITY COMPANIES SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 48 (FORTY-EIGHT) HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. NEITHER THE OWNER NOR ENGINEER ASSUMES ANY RESPONSIBILITY FOR UTILITIES OR STRUCTURES NOT SHOWN. THE CONTRACTOR'S RESPONSIBILITY REGARDING UTILITIES SHALL BE AS REQUIRED UNDER SECTION 105.06 OF THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS" CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, (LATEST EDITION)".
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS FROM DAMAGE; AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR RECONSTRUCTED SATISFACTORY TO THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
- ALL BARRICADING AND TEMPORARY TRAFFIC CONTROL DEVICES OR METHODS USED DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS" CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, (LATEST EDITION)" AND "STATE OF NEVADA TRAFFIC CONTROL MANUAL", (LATEST EDITION) AND "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", (LATEST EDITION), THE NEVADA DEPARTMENT OF TRANSPORTATION REGULATIONS, THE NEVADA WORK ZONE TRAFFIC CONTROL HANDBOOK. CITY OF LAS VEGAS SPECIAL PROVISIONS TO 624 (LATEST ADDITION).
- PROTECTION AND REPLACEMENT OF SURVEY MONUMENTS OR PROPERTY STAKES NOT DELINEATED ON THE CONTRACT DRAWINGS SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- A SOILS REPORT HAS BEEN PERFORMED BY TERRACON CONSULTANTS AND IS AVAILABLE FOR REVIEW AT THE OFFICE OF VTN NEVADA.
- THE OWNING UTILITY COMPANY SHALL BE RESPONSIBLE FOR THE REMOVAL OR RELOCATION OF ALL POWER POLES, TELEPHONE POLES, JOINTLY-OWNED POWER POLES AND RELATIVE APPURTENANCES THAT INTERFERE WITH THE REQUIRED IMPROVEMENTS AS SHOWN ON THE CONTRACT DRAWINGS.
- THE SOUTHWEST GAS COMPANY SHALL BE RESPONSIBLE FOR THE REMOVAL AND RELOCATION OF ALL GAS LINES AND APPURTENANCES THAT INTERFERE WITH THE REQUIRED IMPROVEMENTS AS SHOWN ON THE CONTRACT DOCUMENTS.
- THE CENTRAL TELEPHONE COMPANY SHALL BE RESPONSIBLE FOR THE ADJUSTMENT OF TELEPHONE MANHOLES AND UNDERGROUND TELEPHONE LINES THAT INTERFERE WITH THE REQUIRED IMPROVEMENTS AS SHOWN ON THE CONTRACT DRAWINGS.
- THE NEVADA POWER COMPANY SHALL BE RESPONSIBLE FOR THE RELOCATION OF UNDERGROUND POWER LINES THAT INTERFERE WITH THE REQUIRED IMPROVEMENTS AS SHOWN ON THE CONTRACT DRAWINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERTICAL ADJUSTMENTS OF FACILITIES AS INDICATED ON THE CONTRACT DRAWINGS OR IN THE SPECIAL PROVISIONS.
- ALL TRAFFIC SIGNS NOT SPECIFICALLY NOTED TO BE RELOCATED AND/OR MAINTAINED SHALL BE REMOVED BY THE CONTRACTOR AND RETURNED TO THE CITY OF LAS VEGAS. THE CONTRACTOR SHALL PRESERVE AND PROTECT SUCH SIGNS UNTIL REMOVED.
- INTERCONNECT CONDUIT MAY BE PLACED IN SAME TRENCH AS STREET LIGHTING CONDUIT, BUT WHEN THE STREET LIGHTING CONDUIT IS IN THE SAME TRENCH AS THE INTERCONNECT CONDUIT, THE STREET LIGHTING CONDUIT SHALL PASS AROUND THE INTER-CONNECT PULL BOXES. INTERCONNECT AND STREET LIGHTING CONDUIT SHALL HAVE A MINIMUM SEPARATION OF 12" IN ALL TRENCHES.
- ALL PULL BOXES SHALL BE CONCRETE OR FIBERLITE WITH METAL COVERS MARKED "TRAFFIC SIGNAL" IF USED FOR SIGNAL CONDUCTORS. PULL BOXES AND SPLICE VAULTS USED FOR FIBER OPTIC SHALL HAVE COVERS MARKED "FIBER OPTIC". PULL BOXES USED FOR STREET LIGHTING SHALL HAVE METAL COVERS MARKED "STREET LIGHT". ALL PULLBOXES AND FIBER OPTIC SPLICE VAULTS LOCATED IN AREAS WITHOUT SIDEWALK SHALL HAVE CONCRETE COLLARS PER USDCCA STD. DWG. NO. 329.
- ALL INTERCONNECT CONDUIT SHALL ENTER STRAIGHT INTO THE BOTTOM OF THE P-30 PULL BOXES. PULL BOXES SHALL BE SPACED AT 500' MAXIMUM.
- CONDUIT LOCATIONS AS SHOWN ON THE DRAWINGS ARE FOR CLARITY OF RUNS ONLY. ALL CONDUIT RUNS, EITHER SINGLE OR MULTIPLE, SHALL RUN CORNER TO CORNER. MULTIPLE RUNS NOT TERMINATING IN THE SAME PULL BOX SHALL PASS UNDER THE PULL BOX USING RIGID ROBCOAT 90° ELBOW AND CONTINUE ON TO THE NEXT CORNER OR TERMINATING POINT. ALL MULTIPLE CONDUIT RUNS SHALL BE PLACED IN THE SAME TRENCH WHENEVER POSSIBLE.
- LVACTS INTERCONNECT CABLE POLICY IS IN EFFECT. INTERCONNECT CABLE MUST BE MAINTAINED AT ALL TIMES. DEVELOPER/CONTRACTOR SHALL PROVIDE TEMPORARY OVERHEAD INTERCONNECT CABLE WHILE PERMANENT CABLE IS BEING RELOCATED. ANY DAMAGE TO THIS CABLE IS DEEMED AN EMERGENCY BY LVACTS, CITY OF LAS VEGAS, CLARK COUNTY, AND N.D.O.T. TEMPORARY AERIAL INSTALLATION MUST BE ACCEPTABLE TO COUNTY TRAFFIC MANAGER AND LVACTS. \$2500.00 PER DAY DAMAGES MAY BE ASSESSED AFTER 24 HRS. HAS ELAPSED FROM TIME OF BREAK OR DAMAGE.
- ALL STREET LIGHT WIRE SHALL BE THW INSULATION AND ALL WIRE SHALL BE COPPER.
- FOR TRAFFIC SIGNAL MODIFICATIONS, THE CONTRACTOR SHALL INSTALL TEMPORARY AERIAL WIRING SO THAT EXISTING CONDUITS CAN BE FREED FOR THE PERMANENT WIRING RUNS. THE CONTRACTOR SHALL REWIRE CONDUITS IN ACCORDANCE WITH CONDUIT AND WIRE SCHEDULES SHOWN ON THE SIGNAL PLANS. EXISTING CONDUITS THAT ARE NOT INCLUDED IN THE CONDUIT AND WIRE SCHEDULES SHALL NOT BE DISTURBED UNLESS NOTED OTHERWISE. TEMPORARY AERIAL WIRING SHALL BE REMOVED AFTER PERMANENT WIRING RUNS ARE INSTALLED AND CONNECTED.
- EXISTING FOUNDATIONS FOR POLES THAT ARE TO BE REMOVED OR RELOCATED THAT ARE LOCATED IN THE SIDEWALK AREA ARE TO BE JACK HAMMERED DOWN A MIN OF 18" BELOW GRADE. CONSTRUCT NEW COMPLETE SIDEWALK SECTIONS IN DISTURBED AREAS, MATCH EXISTING SIDEWALK.
- EXISTING POLE FOUNDATIONS FOR REMOVED OR RELOCATED POLES LOCATED OUTSIDE THE SIDEWALK AREA ARE TO BE JACK HAMMERED DOWN A MINIMUM OF 18" BELOW GRADE.
- ALL STREET LIGHT EQUIPMENT REMOVED MUST BE RETURNED TO THE CITY OF LAS VEGAS EAST SERVICE YARD AT 3104 EAST BONANZA. CALL 702-229-6331 24 HOURS BEFORE DELIVERY. CONTRACTOR MUST HAVE MEANS TO UNLOAD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE INCURRED IN THIS PROCESS.

GENERAL LEGEND

PROPOSED	EXISTING	DESCRIPTION
----	----	TRAFFIC SIGNAL OR STREET LIGHTING WIRE AND/OR CONDUIT
●	○	POLE/POST
—●—	—○—	POLE w/ GUY WIRE AND ANCHOR
—●— OR —●—	—○— OR —○— OR —○—	STREET SIGN
—●—	—○— OR —○—	STREET LIGHT
—●—	—○—	STREET LIGHT 100W (SODIUM LUMINAIRE)
—●—	—○—	STREET LIGHT 250W (SODIUM LUMINAIRE)
—●—	—○—	STREET LIGHT 400W (SODIUM LUMINAIRE)
—●—	—○—	POLE LIGHT
—●—	—○—	PULL BOX
—●—	—○—	TRAFFIC CONTROL CABINET
—●—	—○—	TRAFFIC CONTROL AND/OR STREET LIGHTING SERVICE PEDESTAL
—●—	—○—	CONDUIT/WIRE REFERENCE NUMBER
—●—	—○—	SIGNAL POLE, SIGNAGE & DELINEATION REFERENCE NUMBER
—●—	—○—	TRAFFIC LOOP DETECTOR
—●—	—○—	PEDESTRIAN SIGNAL
—●—	—○—	SIGNAL INDICATION w/ BACK PLATE
—●—	—○—	SIGNAL INDICATION w/ DIRECTIONAL ARROW & BACK PLATE
—●—	—○—	"M-5" TYPE SIGNAL HEAD w/ ARROW & BACK PLATE
—●—	—○—	OPTICOM DETECTOR
—●—	—○—	MAST-ARM MOUNTED STREET NAME SIGN (INTERNALLY ILLUMINATED)
—●—	—○—	VIDEO DETECTION CAMERA
—●—	—○—	PHOTO CELL (NOTE INSTALL P.E. IN PEDESTAL, ONE FOR EACH CIRCUIT)
—●—	—○—	TRANSFORMER
—●—	—○—	CONDUIT
—●—	—○—	CONDUIT ONLY
—●—	—○—	RELOCATED POSITION OF SIGNAL POLE
—●—	—○—	RELOCATED POSITION OF PEDESTRIAN SIGNAL
—●—	—○—	RELOCATED POSITION OF SIGNAL INDICATION w/ BACK PLATE
—●—	—○—	RELOCATED POSITION OF EXISTING SIGNAL INDICATION w/ DIRECTIONAL ARROW & BACK PLATE
—●—	—○—	RELOCATED POSITION OF EXISTING "M-5" TYPE SIGNAL HEAD w/ DIRECTIONAL ARROW & BACK PLATE



TYPICAL CROSSWALK STRIPING DETAIL

GENERAL INFORMATION FOR
STRIPING AND STREET LIGHTING
AND SIGNALIZATION PLANS

ORIGINAL CONSTRUCTION
DRAWINGS ARE ON FILE
WITH THE CITY OF
LAS VEGAS. THE
DOCUMENTS WERE SEALED
ON 1/9/04
BY
ROBERT C HOSEA III
UNDER LICENSE NO
10112

WO. NO. 5678
BY LMW,WBM
DATE 12/05/03
SCALE HORIZ. NONE
VERT. NONE
DRAWING T1
SHEET 53
OF 71
SHEETS

DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS

RECORD DRAWING INFORMATION AS
PROVIDED BY TAB CONTRACTORS, INC.
10/19/05
DATE
REV

vtm nevada

DURANGO DRIVE IMPROVEMENTS
TROPICAL PARKWAY TO I-215

CONSULTING ENGINEERS • PLANNERS • LAND SURVEYORS
2727 SOUTH RAINBOW BOULEVARD
LAS VEGAS, NEVADA 89102-5148 PHONE (702) 873-7550 FAX (702) 362-2597