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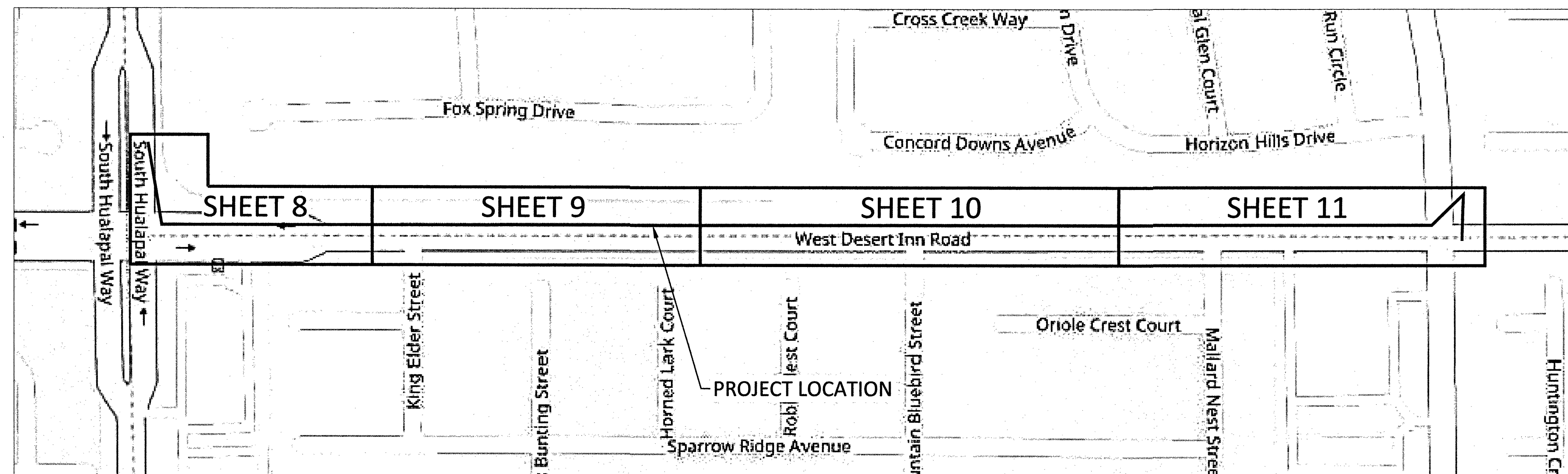
NORTH

A simple compass rose with a circle in the center. Four arrows point outwards towards the top, bottom, left, and right, representing North, South, East, and West respectively. The word "NORTH" is written above the top arrow.

CELL SITE: LSV WILLOWS

CITY OF LAS VEGAS, NEVADA

CLARIFICATION NO.	QUANTITY
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MCI
COMMUNICATIONS SERVICES, INC.

OUTSIDE PLANT CONSTRUCTION

OUTSIDE PLANT CONSTRUCTION

TITLE: CELL SITE: LSV WILLOWS

PROJECT TITLE

DATE: 7/17/2018

DRAWN BY: CMENDOZA

REVISIONS

DATE	INITIAL
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EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE DRAWINGS AND SPECIFICATIONS SHALL REMAIN THE PROPERTY OF MCI COMMUNICATIONS SERVICES, INC. BOTH BEING ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE

HORIZONTAL: $1''=30'$

VERTICAL:	NA
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MP TO MP

SHEET 1 OF 12

LSV WILLOWS - CITY OF
FT. LAS VEGAS - REV

07-17-18

CELL SITE: LSV WILLOWS

CITY OF LAS VEGAS, NEVADA

CLARIFICATION NO.	QUANTITY
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[illegible]

MCI
COMMUNICATIONS SERVICES, INC.

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SCALE

HORIZONTAL: $1^{\circ}=30$

VERTICAL: NA

MP	TO MP
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SHEET 2 OF

FILE: LSV WILLOWS - CITY OF
LAS VEGAS - REV
07-17-18

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLICWORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLICWORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST REVISED EDITION; THE "SUMMERLIN IMPROVEMENT STANDARDS" FOR WORK IN THE SUMMERLIN AREA; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; THE UNIFORM BUILDING CODE; AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AS "DEVIATIONS FROM STANDARDS".
2. THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES AS SHOWN FROM CLV PLANS LIBRARY ARE APPROXIMATE AND FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCE'S WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHENWORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTIONTHEREWITH.
3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES AND STREET IMPROVEMENTSWHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORILY TO THE CITY ENGINEER AND OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.
4. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
5. TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM @28 DAYS. MIX DESIGNS TO BE APPROVED BY THE CITY, PRIOR TO THE USE ON THE PROJECT.
6. PERMITS ARE REQUIRED FOR ANYWORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
7. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED-TYPE CURB.
8. AC PAVEMENT TO BE ONE-HALF INCH (1/2") ABOVE LIP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS AND CROSS GUTTERS.
9. CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY OF LAS VEGAS SHALL BE REMOVED AND REPLACED PER STANDARD DRAWING 216.
10. SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.
11. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF THE TRANSITIONS TO BE AS SHOWN ON PLANS.
12. ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY THE (COMPANY, REPORT #, DATE) APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.
13. EXACT LOCATION OF ALL SAWCUT LINES MAY BE ADJUSTED OR DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS ENGINEER IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATIONS.
14. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH N.R.S. STATUTE NO. 625.380 & CITY OF LAS VEGAS TITLE 18, APPENDIX D.
15. UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC., SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOWLINES, AND CROSS GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE UTILITY COMPANY AND THE CITY ENGINEER.

WALL NOTES:

16. ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN ON CIVIL PLANS FOR THE PURPOSE OF REVIEWING GRADING RELATIONSHIPS; FLOOD CONTROL AND SIGHT DISTANCE AT INTERSECTIONS. NEW WALLS REQUIRE A SEPARATE PERMIT AND INSPECTION BY THE BUILDING DEPARTMENT.
17. ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHT OF WAY.
18. CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING INLETS, VALVE BOXES, MANHOLE RIMS, AND SEWER CLEAN OUTS, ETC. TO FINISH GRADE AS APPLICABLEWHETHER OR NOT THEY ARE SHOWN ON THE PLANS.

3. MATERIALS, HANDLING AND PLACEMENT OF PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF NDOT OR THE CLARK COUNTY AREA SPECIFICATIONS (AS APPLICABLE) AND THE PLANS AND DETAILS SHOWN HEREON.
20. WHEN INSTALLING UNDERGROUND FACILITIES THAT REQUIRE UNDERGROUND LOCATING DEVICES SUCH AS MARKER BALLS, LOCATING RIBBON, ETC, THE CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO OFFSITE INSPECTION AND TESTING CERTIFYING THAT ALL DEVICES HAVE BEEN PLACED AND VERIFIED TO BE IN GOOD WORKING CONDITION PRIOR TO THE CONSTRUCTION OF ANY ROAD BASE.
21. SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S) SHALL BE PROVIDED TO THE CITY AND APPROVED PRIOR TO ACCEPTANCE OF FACILITY VIDEO INSPECTION. THE MAP(S) SHALL INCLUDE THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES AND TRANSITION STRUCTURES, STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN AND AT THE CONNECTION TO A DROP INLET, THE CONNECTION OF SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXIT THE PUBLIC RIGHT-OF-WAY, AND STORM DRAIN MAIN ALIGNMENT, INCLUDING DEFLECTION POINTS. THE LOCATION SHALL BE DESCRIBED BY COORDINATES WHICH SHALL BE BASED ON THE OFFICIAL HORIZONTAL AND VERTICAL CONTROL NETWORKS OF THE CITY OF LAS VEGAS. FINAL LOCATION MAPS MUST BE SEALED AND CERTIFIED BY A NEVADA PROFESSIONAL LAND SURVEYOR TO HAVE POSITIONAL CERTAINITIES OF ± 0.09 METERS (± 0.3 FEET) HORIZONTALLY AND VERTICALLY. A SEPARATE ELECTRONIC COMMA DELIMITED FILE FOR THE SANITARY SEWER AND STORM DRAIN COORDINATES SHALL ALSO ACCOMPANY THE SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S).
- OR
- SANITARY SEWER AND STORM DRAIN FACILITIES SHOWN ON THESE PLANS SHALL BE USED TO MEET THE REQUIREMENTS OF NRS 455 AND SHALL SHOW AT A MINIMUM THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES, STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN AND AT THE CONNECTION TO A DROP INLET, AND THE CONNECTION OF SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXIT THE PUBLIC RIGHT-OF-WAY. ANY DEVIATIONS FROM THE INFORMATION SHOWN SHALL BE NOTED AND SUBMITTED AS A REVISION TO THE PLANS AND APPROVED PRIOR TO ACCEPTANCE OF FACILITY VIDEO INSPECTION.
22. CCTV VIDEO INSPECTION IS REQUIRED FOR ALL SEWER AND STORM DRAINS. THE CCTV VIDEO INSPECTIONS NEED TO BE PERFORMED PER THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS LATEST EDITION.
23. A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.
24. REVISED 02/03/15

1. *WORLDCOM COMPRISES THE FOLLOWING OPERATING ENTITIES:

- BROOKS FIBER PROPERTIES, INC.	- MFS TELECOM, INC.
- MCI METRO ACCESS TRANSMISSION SERVICES, LLC	- TELECOM*USA, INC.
- SOUTHERNET, INC.	- SOUTHERNET SYSTEMS, INC.
- MCI WORLDCOM NETWORK SERVICES, INC.	- MCI WORLDCOM NETWORK SERVICES OF VIRGINIA
(COMPRISES MCI TELECOMMUNICATIONS CORP. (MCI LD)	- MCI METRO ACCESS TRANSMISSION SERVICES OF
AND WORLDCOM NETWORK SERVICES, INC. (WORLDCOM LD)	VIRGINIA, INC.

*THE WORLDCOM FACILITIES WITHIN THIS CONSTRUCTION PACKAGE ARE HELD BY THE OPERATING ENTITY(IES) INDICATED IN BOLD TYPE.

2. ALL WORK TO BE PERFORMED IN STRICT ACCORDANCE WITH THE APPLICABLE CODES OR REQUIREMENTS OF ANY REGULATING GOVERNMENTAL AGENCY, WORLDCOM TELECOMMUNICATIONS CORPORATIONS, AND THE RIGHT-OF-WAY GRANTOR.

3. LOCATIONS OF SOME OF THE PHYSICAL FEATURES WERE OBTAINED FROM DATED RAILROAD EVALUATION MAPS OR OTHER DRAWINGS AND MAY NOT BE AS SHOWN OR DEPICTED ON THESE DRAWINGS.

4. UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND FIELD OBSERVATIONS BUT ARE NOT NECESSARILY EXACT. THEREFORE, UTILITY LOCATIONS WILL BE VERIFIED AT LEAST 100 FEET IN ADVANCE OF TRENCHING OR PLOWING, SO THAT CHANGES IN CABLE PLACEMENT CAN BE MADE IN THE EVENT OF CONFLICT.

5. ALL KNOWN BURIED OBSTRUCTIONS ARE SHOWN ON THE CONSTRUCTION DRAWINGS. ANY AND ALL OTHERS ENCOUNTERED ARE ALSO THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, PROTECT AND REPAIR IF DAMAGED.

6. ANY AND ALL IMPROVEMENTS, SUCH AS ASPHALT OR CONCRETE PAVEMENT, CURBS, GUTTERS, WALKS, DRAINAGE DITCHES, EMBANKMENTS, SHRUBS, TREES, GRASS SOD, ETC., IF DAMAGED, SHALL BE RESTORED TO ORIGINAL CONDITION.

7. EQUIPMENT TYPES SPECIFIED HEREIN (IE: "BACKHOE", SWAMP PLOW" ETC.) ARE SUGGESTIONS ONLY AND ARE NOT INTENDED AS REQUIREMENTS. CONTRACTOR WILL BE NOTIFIED AS TO EXPECTATIONS.

8. SHORING OF BORE PITS AND TRENCHES IN ACCORDANCE WITH OSHA REGULATIONS IS MANDATORY.

9. BURIED CABLE MARKERS WILL BE PLACED AT ALL UNDERGROUND UTILITY LOCATIONS AND ALL OTHER LOCATIONS IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND THE OUTSIDE PLANT HANDBOOK.

10. ALL 4" ID CONDUIT WILL BE SCHEDULE 40 (EG: PVC OR GSP/BSP), OR AS SPECIFIED.

11. UNDERGROUND CONDUIT WILL BE PLACED AT 48" MINIMUM COVER UNLESS OTHERWISE SPECIFIED ON THE CONSTRUCTION DRAWINGS.

CLARIFICATION NOTES

- | | |
|---|----|
| 1. STATION | 1. |
| 2. REFERENCE ORDER NUMBER | 2. |
| 3. CLARIFICATION NO. AND/OR MINIMUM COVER | 3. |
| 4. CLARIFICATION NO. | 4. |
| 5. CLARIFICATION NO. AND/OR FOOTAGE | 5. |
| 6. CLARIFICATION NO. AND/OR FOOTAGE | 6. |
| 7. SPECIFIED CONDUIT, HANDHOLE/MANHOLE NO., SPECIFIED PURPOSE AND MATERIAL, BRIDGE NO. AND RAILROAD STATION, MATERIAL, POLE NO. | 7. |

- | | |
|-----|--|
| 210 | JACK AND DRY BORE CONDUIT(S) |
| 210 | PLACE CONDUIT |
| 212 | PLACE HIGH DENSITY POLYETHYLENE (HDPE) |
| 213 | ROCK ADDER |
| 214 | SLURRY BACKFILL ADDER |
| 215 | EXPOSE CONDUIT |
| 216 | EXPOSE CONDUIT AND RELOCATE |
| 217 | EXPOSE CONDUIT AND REPLACE/SUBSTITUTE |
| 218 | EXPOSE AND REMOVE CONDUIT |
| 219 | EXPOSE AND REMOVE CONDUIT (ABANDONED) |
| 220 | CONCRETE ENCASE |
| 221 | REMOVE CONCRETE ENCASEMENT |
| 222 | REMOVE CONCRETE CAP |
| 240 | PLACE HANDHOLE |
| 244 | REMOVE EXISTING HANDHOLE |
| 245 | RELOCATE HANHOLE |
| | REPLACE/SUBSTITUTE HANDHOLE |
| 247 | EXCAVATE SPLICE PIT |
| 250 | PLACE MANHOLE |
| 252 | REMOVE EXISTING MANHOLE |
| 255 | RELOCATE PRECAST MANHOLE |
| 256 | REPLACE/SUBSTITUTE PRECAST MANHOLE |
| 260 | CONSTRUCT WALL |
| 270 | REMOVE AND RESTORE ASPHALT |
| 280 | REMOVE AND RESTORE CONCRETE |
| 281 | REMOVE AND RESTORE SIDEWALK |
| 282 | REMOVE AND RESTORE CURBING |
| 310 | ATTACH CONDUIT TO WALL OR STRUCTURE |
| 315 | DETACH CONDUIT FROM WALL OR STRUCTURE |
| 320 | CORE BORE |
| 330 | ATTACH PULL/SPLICE BOX TO WALL OR STRUCTURE |
| 410 | PULL CABLE |
| 411 | PULL THROUGH DUCT (INNERDUCT) |
| 415 | REMOVE CABLE FROM CONDUIT |
| 420 | REPOSITION ACTIVE CABLE SLACK |
| 510 | DIRECT BURY CABLE |
| 515 | EXPOSE DIRECT BURIED CABLE |
| 516 | EXPOSE DIRECT BURIED CABLE AND RELOCATE |
| 517 | REMOVE AND DISPOSE OF CABLE |
| 520 | PLACE AERIAL CABLE |
| 525 | RELOCATE AERIAL CABLE |
| 526 | DELASH AERIAL CABLE |
| 527 | RELASH AERIAL CABLE |
| 528 | REMOVE AERIAL CABLE |
| 530 | PLACE POLE/PUSH BRACE |
| 535 | REMOVE POLE/PUSH BRACE |
| 610 | JETTING CONDUIT |
| 620 | EMBEDMENT PLOW |
| 630 | DIRECTIONAL BORE |
| 710 | PLACE BURIED CABLE MARKERS AND SIGNS/MWCOM |
| | WATER CROSSING SIGNS |
| 711 | PLACE ISOLATOR/PROTECTION SYSTEM AT EXISTING |
| | HANDHOLES/MANHOLES |
| 712 | REMOVE BURIED CABLE MARKER POST/HARDWARE |
| 714 | REMOVE CONCRETE BURIED CABLE MARKER POST |

NOTES CONTINUED/CONTACT SHEET

GROUNDING NOTES

11.4 HANDHOLE/MANHOLE GROUNDING

All splice handholes/manholes will be grounded to conform with the MCI typical engineering drawing shown in Appendix A.

MCI-furnished materials:

- One 5/8-inch x 8-foot copper-clad steel ground rod equipped with a 15-foot #6 AWG pigtail
- One surge arrester handholeOne isolator/protector system with 30 foot harness for use on a straight splice, or
- One isolator/protector system with 30-foot harness system for use at splices with a spur cable.

11.5 AERIAL CABLE GROUNDING

Cable sheath to strand bonds and grounding as required by National Electrical Code and Power Company Codes are required at all riser locations of an aerial segment.

Bond cable sheath and suspension strand to multi-ground neutral (MGN) vertical grounding conductor if one exists; if not, use a driven ground rod or a non-insulated guy.

A guy may also require grounding. This is determined by establishing the exposure status (exposed or unexposed) of the guy.

All exposed guys must be either grounded or insulated. A guy is exposed if:

- It is attached to the same pole as open power conductors or spacer cable of any voltage.
- It crosses such power conductors.
- It is within ten feet horizontally (and any distance vertically) of such power conductors.

Grounding is the preferred treatment for exposed guys, except for the following cases in which they must be insulated:

- The MCI guy fastened to the pole in power company working space and a grounded guy would offer an additional hazard to power company linemen.
- Within 1/2-mile of a power station.
- Where electrolytic corrosion of anchors has occurred (unexposed guys, in this case must be separated from the cable strand at the pole, and electrical connection through hardware must be avoided).

Adequate grounding for MCI guys may be obtained through connection to any of the following:

- Vertical grounding conductor of power system multi-ground neutral (with permission of the power company).
- Suspension strand of grounded MCI cable.
- Common anchor rod with a power guy that is connected to the multi-grounded neutral.

Unexposed guys need not be grounded for protection reasons; however, connecting anchor guys to a grounded MCI strand is recommended, as it will lower the cable-to-ground impedance. This helps to reduce cable damage caused by lightning.

MCI metro Access Transmission Services Corp
d/b/a Verizon Access Transmission Service (Verizon)

OUTSIDE PLANT ENGINEERING:

PROJECT ENGINEER: CORY VANDENBOS
SUPERVISOR: N/A
MANAGER: N/A

OUTSIDE PLANT CONSTRUCTION:

PROJECT SUPERVISOR:
FIELD CONST. SUPERINTENDENT:
MANAGER: N/A

RIGHT-OF-WAY:

AGENT:
MANAGER:

CONTRACTS:

COORDINATOR: N/A
MANAGER: N/A

OTHERS:

PROGRAM MANAGER: N/A
LIGHTWAVE ENGINEER: N/A
CIVIL ENGINEER: N/A
TERMINAL CONST. REP.: N/A
SPLICING MANAGER: N/A
TSD MANAGER: N/A

ENGINEERING CONTRACTOR

NAME OF FIRM: BPG DESIGNS 1-602-954-2223
PROJECT MANAGER: CORY VANDENBOS 1-602-739-8813
ENG. PROJECT SUPERVISOR:

CONSTRUCTION CONTRACTOR

NAME OF FIRM: TEAM FISHEL 1-702-644-4565
PROJECT COORDINATOR:

CITY GOVERNMENT

BUREAU OF ENGINEERING:

CITY ENGINEER:

UTILITIES

WORLD COM UTILITY LOCATE 1-800-624-9675
USA NORTH BLUESTAKE 811

PROJECT TOTALS SUMMARY

MATERIALS

2" HDPE CONDUIT(S): 52'
4" HDPE CONDUIT(S): -
2' x 3' x 2' HANDHOLE(S): -
2.5' x 5' x 2.5' HANDHOLE(S): 2
4' x 4' x 4' HANDHOLE(S): -
MANHOLES: -

WORK TYPE

AERIAL: -
VZW CONDUIT: -
3RD PARTY CONDUIT: 3,062'
TRENCH: 40'
ASPHALT CUT: -
BORE: -

TOTAL NEW UG FOOTAGE: 40'
TOTAL FOOTAGE: 3,102'



PROJECT: 917154, 917159,
917205, 917206

CELL SITE: LSV WILLOWS

CITY OF LAS VEGAS, NEVADA

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SCALE

HORIZONTAL: 1"=30'

VERTICAL: NA

MP TO MP

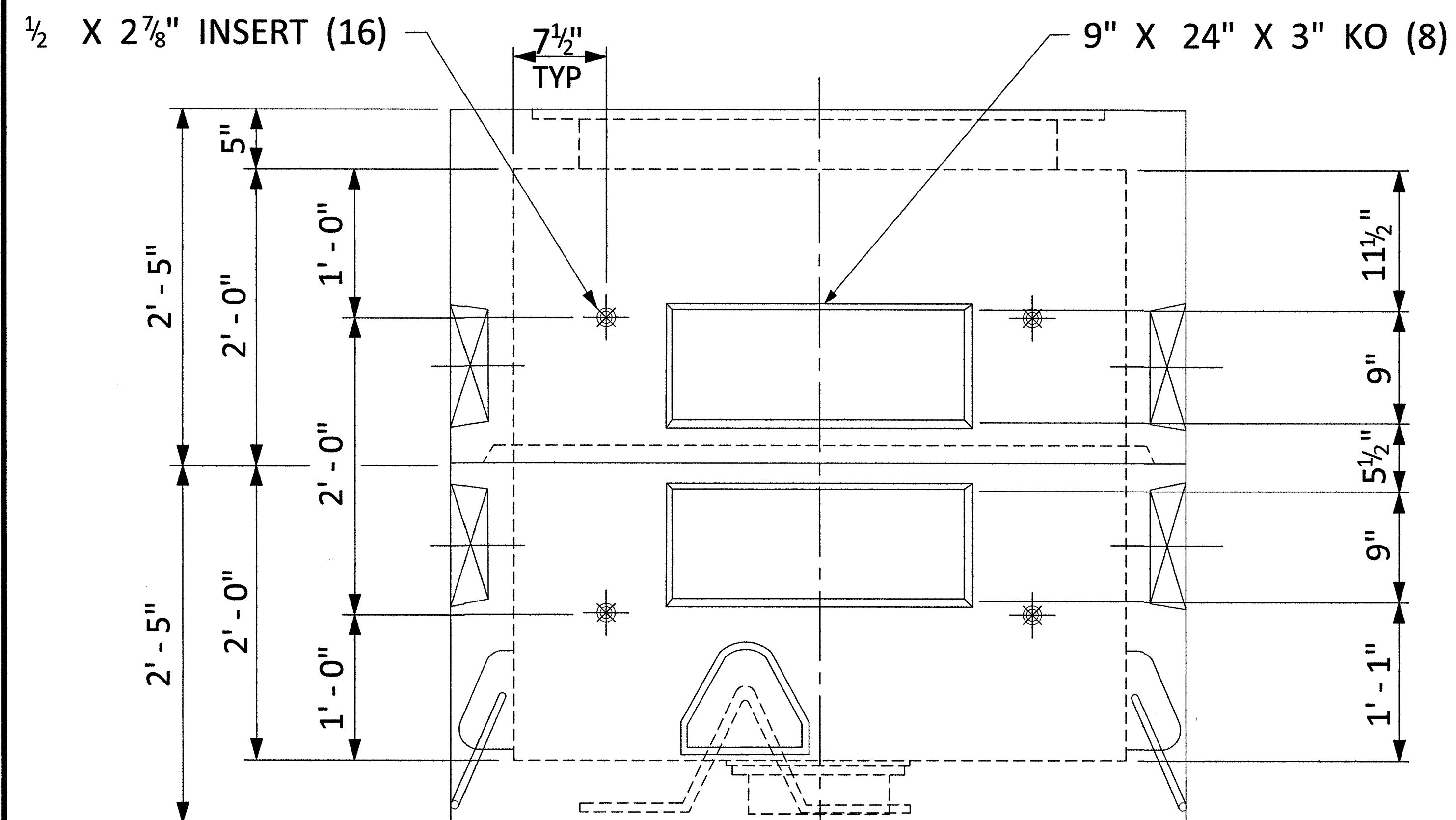
SHEET 3 OF 12

FILE: LAS VEGAS - REV 07-17-18

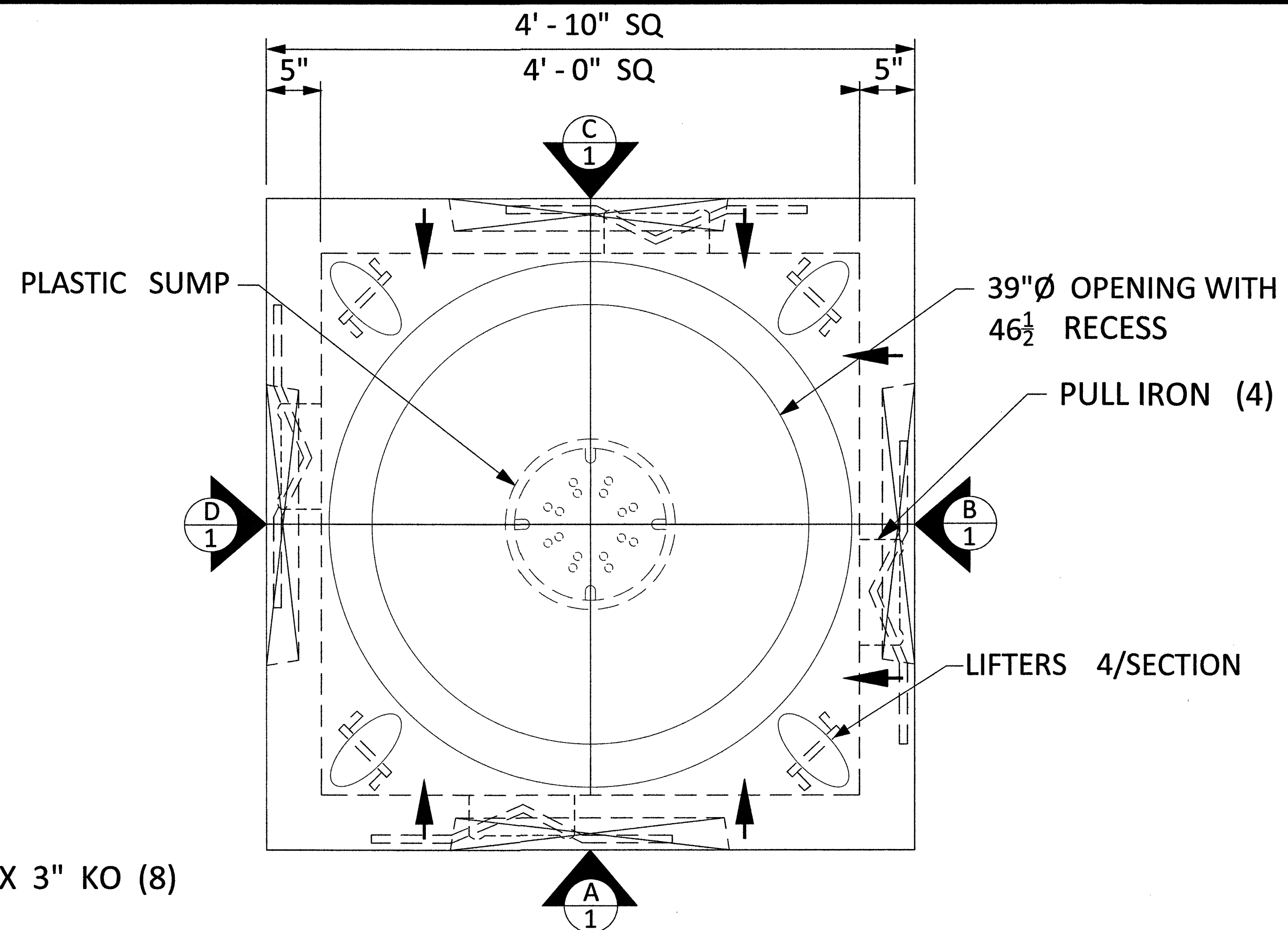
0 10 20 30 40 50

DRAWING SCALE IS IN FEET:
(1"=60' AT 11"x17" print)
(1"=30' AT 24"x36" print)

1. CONCRETE: 28 DAY COMPRESSIVE STRENGTH F'C = 5,000 PSI
2. STEEL REINFORCEMENT: ASTM A-615, GRADE 60
3. COVER TO STEEL - 1" MINIMUM
4. DESIGNED TO MEET ACI 318 FOR:
HS20 LIVE LOAD
45 PCF SOIL EFP
0'-0" SOIL COVER
WATER TABLE 3'-0" BELOW GRADE
5. JOINT SEALANT: CONSEAL BUTYL SEALANT ASTM C-990-91
6. WEIGHT:
TOP - 3,100 LBS
BOTTOM - 3,650 LBS



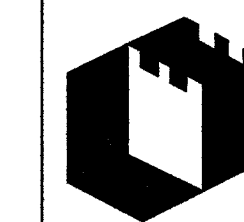
VIEW A, B, C, D
SCALE: 1/2" = 1'-0"



PLAN VIEW
SCALE: 1/2" = 1'-0"

CONTRACTOR IS TO VERIFY THAT ALL INFORMATION SHOWN ON DRAWINGS HAS BEEN THOROUGHLY CHECKED, COMPLIES WITH CONTRACTOR DOCUMENTS, AND IS ADEQUATE TO MEET FIELD CONDITIONS. OLDCASTLE ACCEPTS NO RESPONSIBILITY FOR INSTALLATION ERRORS BY THE CONTRACTOR AND ERRORS OR OMISSION RESULTING AFTER RECEIPT OF APPROVED SHOP DRAWINGS.

NOTE: PRODUCTION WILL NOT COMMENCE UNTIL RECEIPT OF SIGNED APPROVED SHOP DRAWINGS.



Oldcastle Precast

747 ALLENRIDGE POINT, LEXINGTON, KY 40510
PHONE: 859-259-1484 FAX: 859-233-9351

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4'x4'x4' TYPE "S" KNOCKOUT



PROJECT: 917154, 917159,
917205, 917206

CELL SITE: LSV WILLOWS

CITY OF LAS VEGAS, NEVADA

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SCALE

HORIZONTAL: $1''=30'$

VERTICAL: NA

MP	TO MP
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SHEET 5 OF 12

FILE: LSV WILLOWS - CITY OF
LAS VEGAS - REV
07-17-18

CELL SITE: LSV WILLOWS

CITY OF LAS VEGAS, NEVADA

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SCALE

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VERTICAL:	NA
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MP _____ TO MP _____

SHEET 6 OF 12

FILE: LSV WILLOWS - CITY OF
LAS VEGAS - REV
07-17-18

Diagram illustrating the components and dimensions of a vault assembly:

- SEE DETAIL "A-3" THIS SHEET
- NON-SKID SURFACE
- EMS MARKER 3M CAT #1411 (ONE SIDE ONLY)
- LOCK DOWN DEVICE AND DIRT SHIELD SEE DETAIL "A-1" THIS SHEET
- UNISTRUT CHANNEL SUPPORT BEAM 1.625" X 1" X 33" (3 REQUIRED)
- .375" INSERT
- SEE DETAIL "A-4" THIS SHEET
- 30"
- 4.75"
- 4.50" BELL ENDS W/ PVC PLUG. BELL ENDS TO ACCOMMODATE SCHED. 40 PVC (BOTH ENDS)
- 56.25"
- 2"
- 2.50"
- LIFTING BOLTS (TYP. 4 PLACES)
- 2" KNOCKOUT (BOTH ENDS)
- 2.50" KNOCKOUT (BOTH ENDS)
- LOCKING BEAM (CENTER ONLY)
- SEE DETAIL "A-2" THIS SHEET
- REINFORCED POLYMER MORTAR FRAME (RPM) BONDED TO VAULT BY MANUFACTURER
- FIBERGLASS REINFORCED PLASTIC VAULT (FRP)
- 3" REINFORCED RIB
- LIFTING SLOT 4" X 2" WITH CENTER PIN
- TWO PIECE REINFORCED POLYMER MORTAR (RPM) COVER FOR 20,000 LBS. LOADING WEIGHT
- MCI 1-800-624-9675
- .75 IN.
- .50 IN.
- 60"
- 30"

NEOPRENE COVER

50" STAINLESS STEEL
ACME THD. BOLT &
CAPTURE NUT W/
STAINLESS END CAP
(SELF CLEANING)

P1000 UNISTRUT

.375" INSERT
(TYP-4 PLACES)LS)

.75" X 1.25" HEX BOLT
WITH NUT, AND WASHER

COVER HOLD DOWN
BRACKET (HOT DIPPED
GALV) (2 REQ'D)

SUPPORT BEAM
INSTALLATION
(TYP. AT 6 PLACES)

(c)

RPM COVER

RPM FRAME

FIBERGLASS VAULT

SUPPORT BEAM

VAULT BOTTOM
PLAN VIEW

SIDE WALL VIEW
INSIDE LOOKING OUT

NOTE:
LINEAR DISTANCE BETWEEN
LAG BOLT ANCHORS MUST
BE 25".

EXCAVATION PIT

PLAN

SUITABLE DIRT BACKFILL

7' - 0"

5' - 0"

HANDHOLE

The plan view shows a rectangular structure with a 'HANDHOLE' cutout. The overall width is 7' - 0" and the depth is 5' - 0". A hatched area represents 'SUITABLE DIRT BACKFILL' around the structure. A north arrow is located in the upper right corner of the plan view.

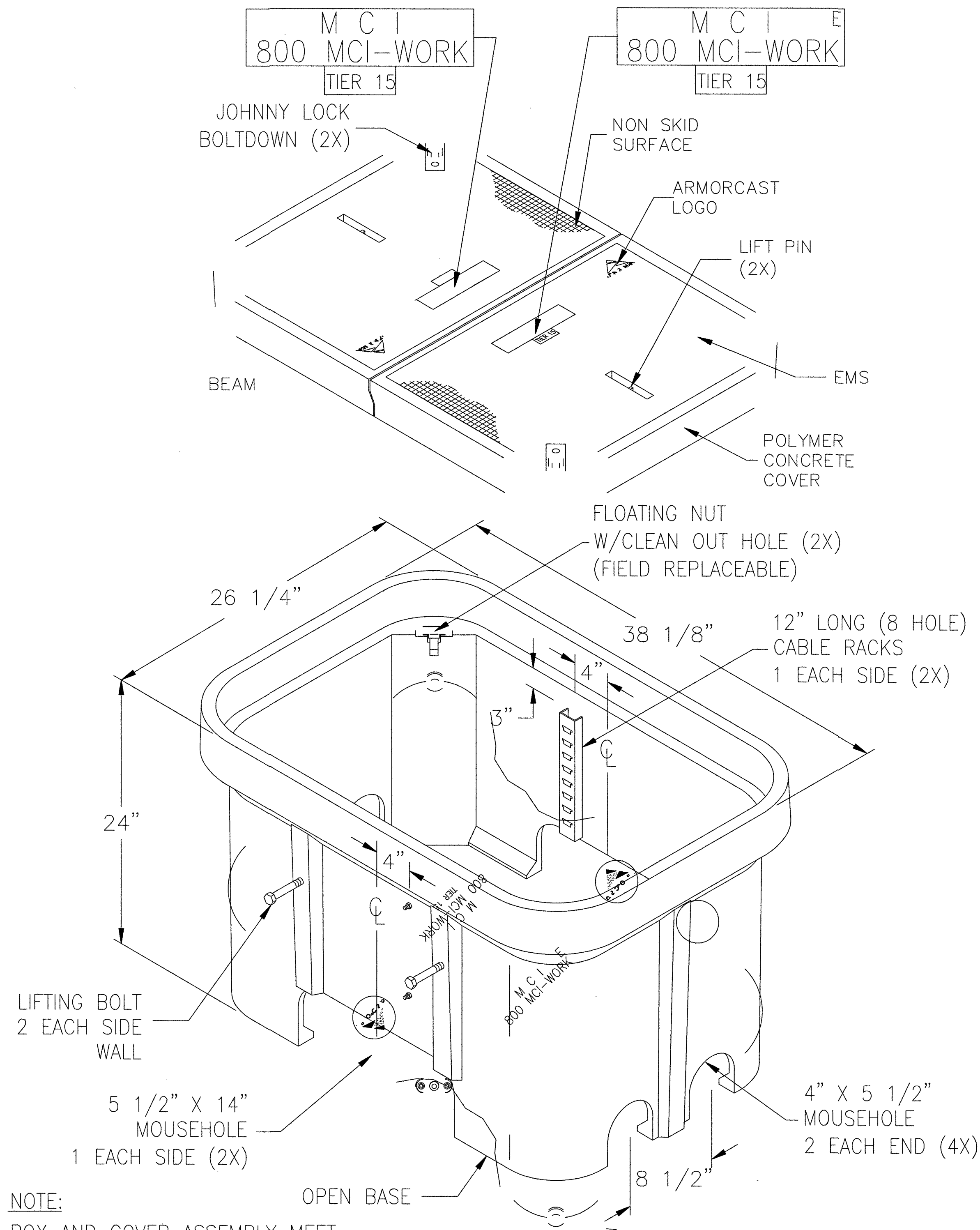
PROFILE

Diagram illustrating the cross-section of a trench for a 12" diameter pipe, showing the following components and dimensions:

- EMS MARKER (ONE SIDE ONLY)**: Located on the left side of the trench.
- EXISTING GRADE**: The ground level above the trench.
- SUITABLE DIRT BACKFILL**: The material filling the trench above the crushed stone.
- CRUSHED STONE**: The material filling the trench below the dirt backfill.
- PVC, BSP/GSP OR HDPE CONDUIT (TYP.)**: The pipe being installed.
- Dimensions**:
 - Trench width: 5' - 0"
 - Depth from existing grade to the top of the crushed stone: 25.25"
 - Depth of the crushed stone layer: 4.75"
 - Pipe diameter: 12"

NOTES:

1. VOID IN EXCAVATED AREAS TO BE BACKFILLED WITH SELECT MATERIAL.
2. BOTTOM OF EXCAVATED PIT TO BE BACKFILLED WITH 12" OF CRUSHED STONE (.75" GRADE).
3. SHORING WILL BE REQUIRED.
4. ALL HANDHOLES SHALL BE PLACED BELOW EXISTING GRADE.
5. THIS HANDHOLE IS OF FIBERGLASS MATERIAL, APPROXIMATELY POUNDS IN WEIGHT. THE LIDS ARE POLYMER CONCRETE MATERIAL, EACH APPROXIMATELY POUNDS.



NOTE:
BOX AND COVER ASSEMBLY MEET
ANSI/SCTE 77 TIER 15 LOADING



13230 Saticoy Street,
North Hollywood, CA 91605
(818) 982-3600

ARMORCAST® PRODUCTS COMPANY

"THE INFORMATION IN THIS DRAWING IS CONFIDENTIAL. THE DRAWING IS NOT TO BE REPRODUCED OR ITS CONTENTS DISCLOSED IN ANY WAY WHATSOEVER EXCEPT WITH THE PRIOR WRITTEN APPROVAL OF ARMORCAST PRODUCTS COMPANY. IT IS THE PROPERTY OF AND MUST BE RETURNED TO: ARMORCAST PRODUCTS COMPANY, 13230 SATICOY STREET, NORTH HOLLYWOOD, CALIFORNIA 91605."

PART DESCRIPTION
24" X 36" X 24" POLYMER CONCRETE BOX ASSEMBLY

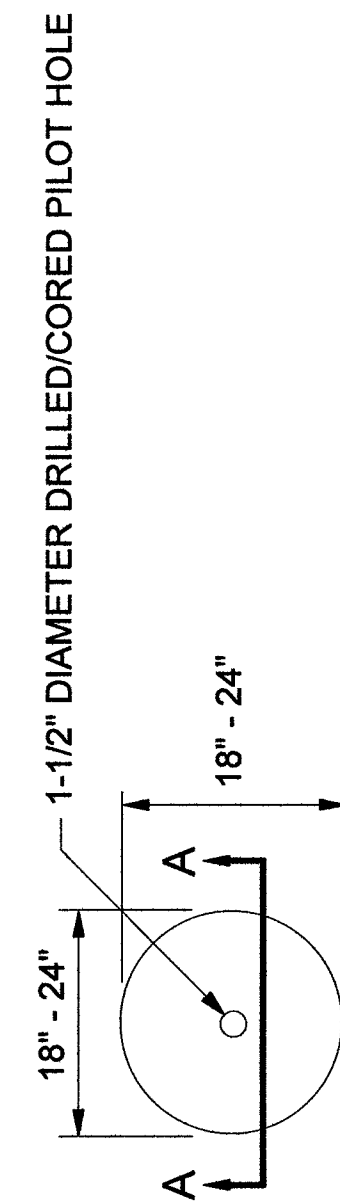
CUSTOMER
VERIZON

DRAWN	GL	DATE	6/17	SCALE	NONE	MAX. LOAD	TIER 15
APPROV.	WS	DATE	6/17	MATERIAL	POLYMER CONCRETE	DRAWING NUMBER	A6001974TAPMC13

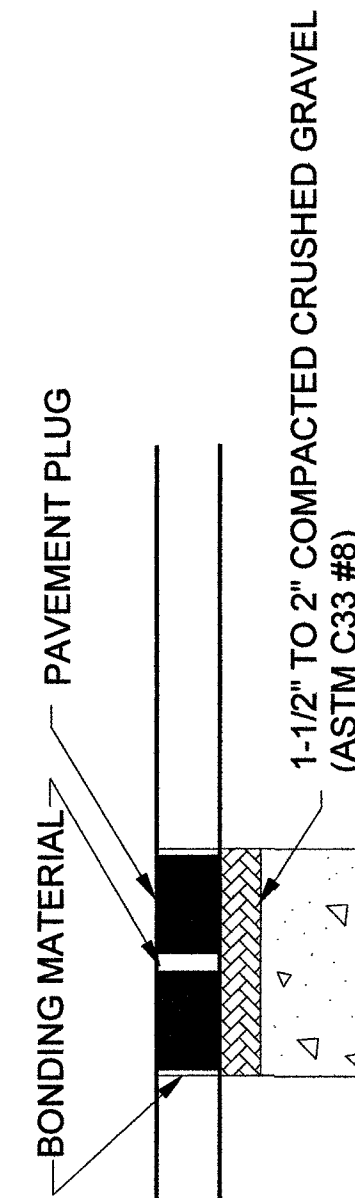
TYPE B - KEYHOLE REPAIR REQUIRED FOR ROW WIDTH GREATER THAN 60' OPTIONAL FOR ROW WIDTH 60' OR LESS

NOTES:

1. CUT AND REMOVE PAVEMENT PLUG WITH AN APPROVED KEYHOLE CORING DEVICE. PAVEMENT TO BE CORED SHALL CONTAIN NO CRACKS AND SHALL BE AT LEAST 4" THICK. IF PLUG IS DAMAGED OR IS LESS THAN 4" THICK, REPLACE PLUG WITH A "FARMED" ASPHALT PLUG FROM AN APPROVED SITE. "FARMED" PLUGS SHALL BE AT LEAST 4" THICK AND AT LEAST ONE INCH THICKER THAN EXISTING ASPHALT.
2. BONDING MATERIAL SHALL BE A SINGLE COMPONENT CEMENTITIOUS RAPID HARDENING, HIGH STRENGTH, WATERPROOF BONDING AGENT THAT ALLOWS THE CORE TO SUPPORT AT LEAST THREE TIMES ASHTO H-25 LOADING WITHIN 30 MINUTES OF APPLICATION. BOND AGENT MUST SHOW A MINIMUM 20 PSI BOND STRENGTH (ASTM C882) AND A MINIMUM 200 PSI COMPRESSIVE STRENGTH (ASTM C109) IN 30 MINUTES.
3. AGENCY-APPROVED BACKFILL BELOW REPAIR SHALL BE PER SECTION 215.
4. FILL KEYHOLE WITH BONDING MATERIAL DURING REPAIR.
5. PRIOR AGENCY APPROVAL IS REQUIRED FOR MULTIPLE KEYHOLE REPAIRS WITHIN A GIVEN ROADWAY SEGMENT.
6. A 5 YEAR WARRANTY IS REQUIRED ON ALL REPAIRS.



POTHOLE PLAN VIEW
(NOMINAL DIMENSIONS)



POTHOLE PROFILE

PAVEMENT REPAIR
TYPE A OR B
FLUSH WITH EXISTING PAVEMENT

ASPHALT
VARIABLE
THICKNESS

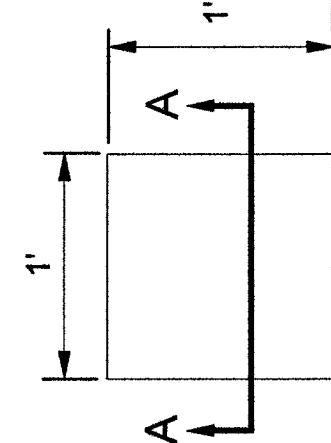
AGENCY-APPROVED MATERIAL
OR 1/2-SACK CLSM PER SEC. 728
FROM 6" ABOVE TOP OF THE
HIGHEST UTILITY TO THE
BOTTOM OF PAVEMENT REPAIR.

6" BEDDING ABOVE TOP OF
THE HIGHEST UTILITY PIPE
TO CONFORM TO SECTION 208

SECTION A-A

TYPE A - CUT & PATCH REPAIR OPTIONAL FOR ROW WIDTH 60' OR LESS

NOTE: EDGES SHALL BE CUT TO
A NEAT VERTICAL FACE.



POTHOLE PLAN VIEW
(NOMINAL DIMENSIONS)

TACK EDGES

AGENCY APPROVED ASPHALT
CONCRETE PLACED IN 2" LIFTS.
6" MIN. THICKNESS OR
MATCH EXISTING.

POTHOLE
PROFILE

AGENCY APPROVED B C H L M N

SPECIFICATION REFERENCE
215 KEYHOLE POTHOLE EXCAVATION
AND BACKFILL

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

UTILITY POTHOLE REPAIR

DATE 01-01-12 DWG. NO. 506



PROJECT: 917154, 917159,
917205, 917206

CELL SITE: LSV WILLOWS

CITY OF LAS VEGAS, NEVADA

CLARIFICATION NO. QUANTITY

COMMUNICATIONS SERVICES, INC.

OUTSIDE PLANT CONSTRUCTION

TITLE: CELL SITE: LSV WILLOWS

PROJECT TITLE

DATE: 7/17/2018

DRAWN BY: CMENDOZA

REVISIONS

DATE	INITIAL
------	---------

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WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE

HORIZONTAL: 1"=30'

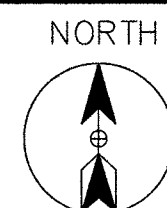
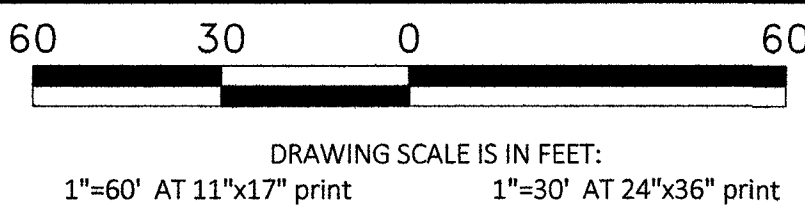
VERTICAL: NA

MP TO MP

SHEET 7 OF 12

LSV WILLOWS - CITY OF
FILE: LAS VEGAS - REV
07-17-18

CONSTRUCTION DRAWING
CITY OF LAS VEGAS, NEVADA



Call at least two full working days
before you begin excavation.

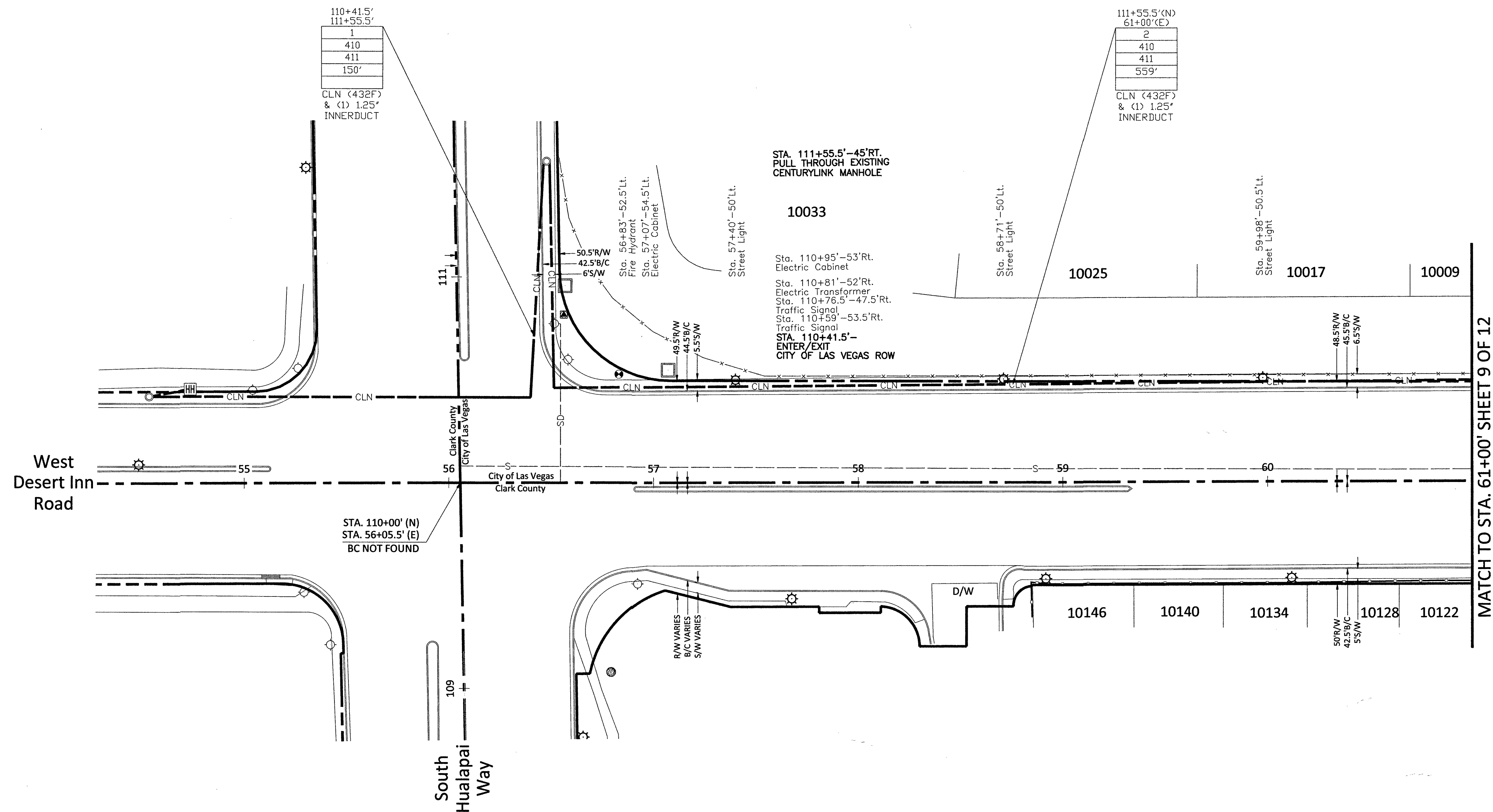


PROJECT: 917154, 917159,
917205, 917206

CELL SITE: LSV WILLOWS
CITY OF LAS VEGAS, NEVADA

CLARIFICATION NO. QUANTITY

SHEET TOTAL	
2" HDPE CONDUIT:	-
4" HDPE CONDUIT:	-
2' x 3' x 2' HANDHOLE(S):	-
2.5' x 5' x 2.5' HANDHOLE(S):	-
4' x 5' x 4' HANDHOLE(S):	-
MANHOLE(S):	-
AERIAL:	-
VZW CONDUIT:	-
3RD PARTY CONDUIT:	709'
TRENCH:	-
TOTAL NEW UG FOOTAGE:	-
TOTAL FOOTAGE:	709'



RTC NOTES:
BACKFILL AND RIGHT OF WAY RESTORATION SHALL CONFORM TO CLARK COUNTY UNIFORM STANDARD DRAWINGS

(1)	500.1	0 TO 5 YEARS PAVEMENT RESTORATION LONGITUDINAL CUT
(2)	500.2	0 TO 5 YEARS PAVEMENT RESTORATION TRAVERSE CUT
(3)	500.3	OVER 5 YEARS PAVEMENT RESTORATION LONGITUDINAL CUT, GREATER THAN 60' R.O.W
(4)	500.4	OVER 5 YEARS PAVEMENT RESTORATION LONGITUDINAL CUT, 60' R.O.W OR LESS
(5)	500.5	OVER 5 YEARS PAVEMENT RESTORATION TRAVERSE ALL R.O.W WIDTHS
(6)	501	TYPICAL UNDERGROUND UTILITY LOCATIONS IN RESIDENTIAL STREETS 60' OR LESS R.O.W
(7)	501.1	TYPICAL UTILITY UNDERGROUND LOCATIONS IN STREETS WITH GREATER THAN 60' R.O.W
(8)	503	METHOD B FOR RIGID AND FLEXIBLE PIPE TRENCH BACKFILL - PAVED AREAS
(9)	503.1	METHOD A FOR FLEXIBLE PIPE TRENCH BACKFILL - PAVED AREAS
(10)	503.2	METHOD A FOR RIGID PIPE TRENCH BACKFILL - PAVED AREAS
(11)	234	SIDEWALK
(12)		BACKFILL IN UNPAVED AREA AS REQUIRED BY LOCAL CODE OR AS APPROVED BY AGENCY.

NOTE TO CONTRACTOR:
CONTRACTOR TO POTHOLE AND LOCATE ALL UTILITIES PRIOR TO STARTING CONSTRUCTION.

CONTRACTOR TO PLACE LOCATE WIRE AND MULE TAPE IN ALL CONDUIT PLACED

CONTRACTOR TO PLACE CONDUIT IN APPROXIMATE LOCATION SHOWN ON PLAN & PROVIDE AS-BUILTS WITH SPECIFIC TIE LOCATION

- 210 PLACE CONDUIT
- 212 PLACE HIGH DENSITY POLYETHYLENE (HDPE)
- 240 PLACE HANDHOLE
- 250 PLACE MANHOLE
- 270 REMOVE AND RESTORE ASPHALT
- 280 REMOVE AND RESTORE CONCRETE
- 281 REMOVE AND RESTORE SIDEWALK
- 282 REMOVE AND RESTORE CURBING
- 410 PULL CABLE
- 411 PULL THROUGH DUCT (INNERDUCT)
- 520 PLACE AERIAL CABLE
- 630 DIRECTIONAL BORE

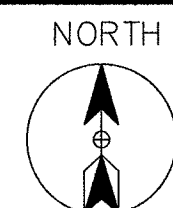
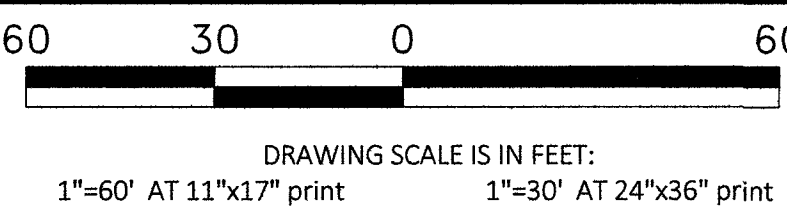
DATE: 7/17/2018
DRAWN BY: CMENDOZA

REVISIONS	
DATE	INITIAL

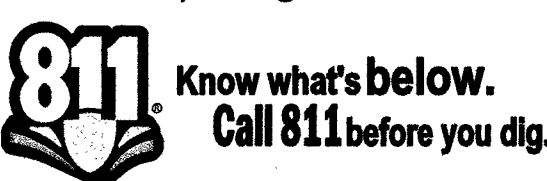
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SCALE	
HORIZONTAL:	1"=30'
VERTICAL:	NA
MP	TO MP
SHEET	8 OF 12
FILE:	LSV WILLOWS - CITY OF LAS VEGAS - REV 07-17-18

CONSTRUCTION DRAWING
CITY OF LAS VEGAS, NEVADA



Call at least two full working days
before you begin excavation.



PROJECT: 917154, 917159,
917205, 917206

CELL SITE: LSV WILLOWS

CITY OF LAS VEGAS, NEVADA

CLARIFICATION NO. QUANTITY

SHEET TOTAL

2" HDPE CONDUIT: 26'

4" HDPE CONDUIT: -

2' x 3' x 2' HANDHOLE(S): -

2.5' x 5' x 2.5' HANDHOLE(S): 1

4' x 5' x 4' HANDHOLE(S): -

MANHOLE(S): -

AERIAL: -

VZW CONDUIT: -

3RD PARTY CONDUIT: 751'

TRENCH: 20'

TOTAL NEW UG FOOTAGE: 20'

TOTAL FOOTAGE: 771'

MCI
COMMUNICATIONS SERVICES, INC.

OUTSIDE PLANT CONSTRUCTION

TITLE: CELL SITE: LSV WILLOWS

DATE: 10/1/2018

DRAWN BY: PVEGA

REVISIONS

DATE	INITIAL

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SCALE

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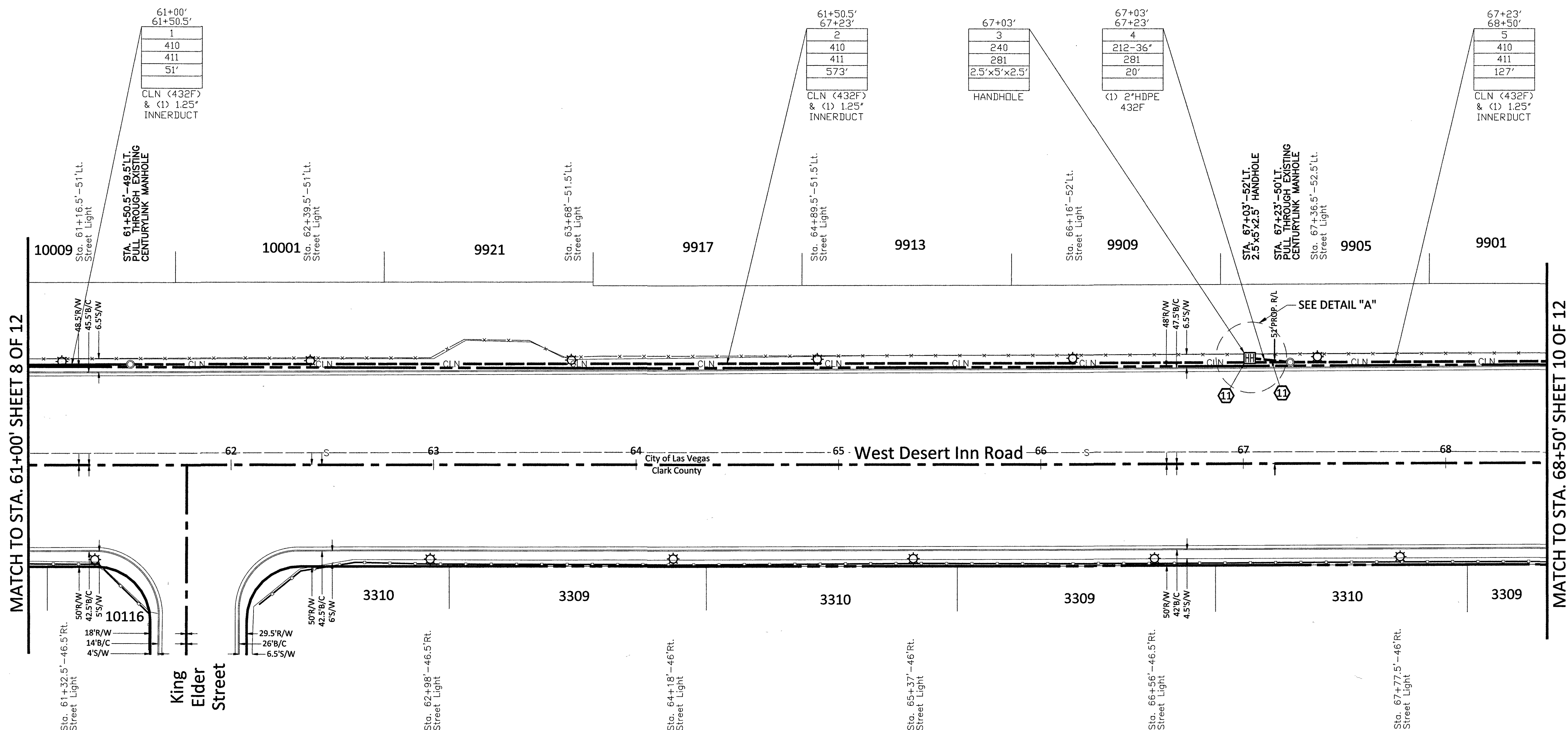
VERTICAL: NA

MP TO MP

SHEET 9 OF 12

LSV WILLOWS - CITY OF

FILE: LAS VEGAS - 10-01-18



RTC NOTES:

BACKFILL AND RIGHT OF WAY RESTORATION SHALL CONFORM TO CLARK COUNTY
UNIFORM STANDARD DRAWINGS

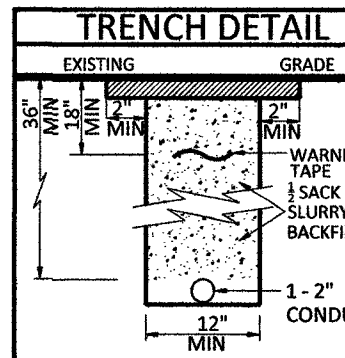
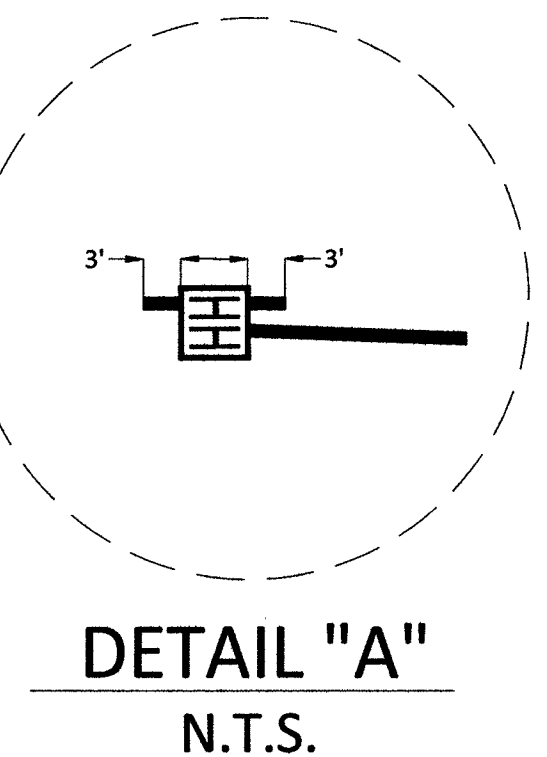
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NOTE TO CONTRACTOR:
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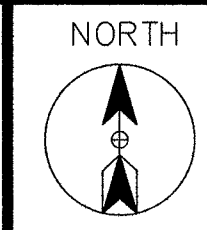
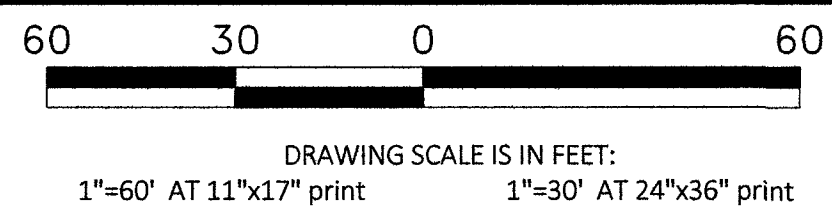
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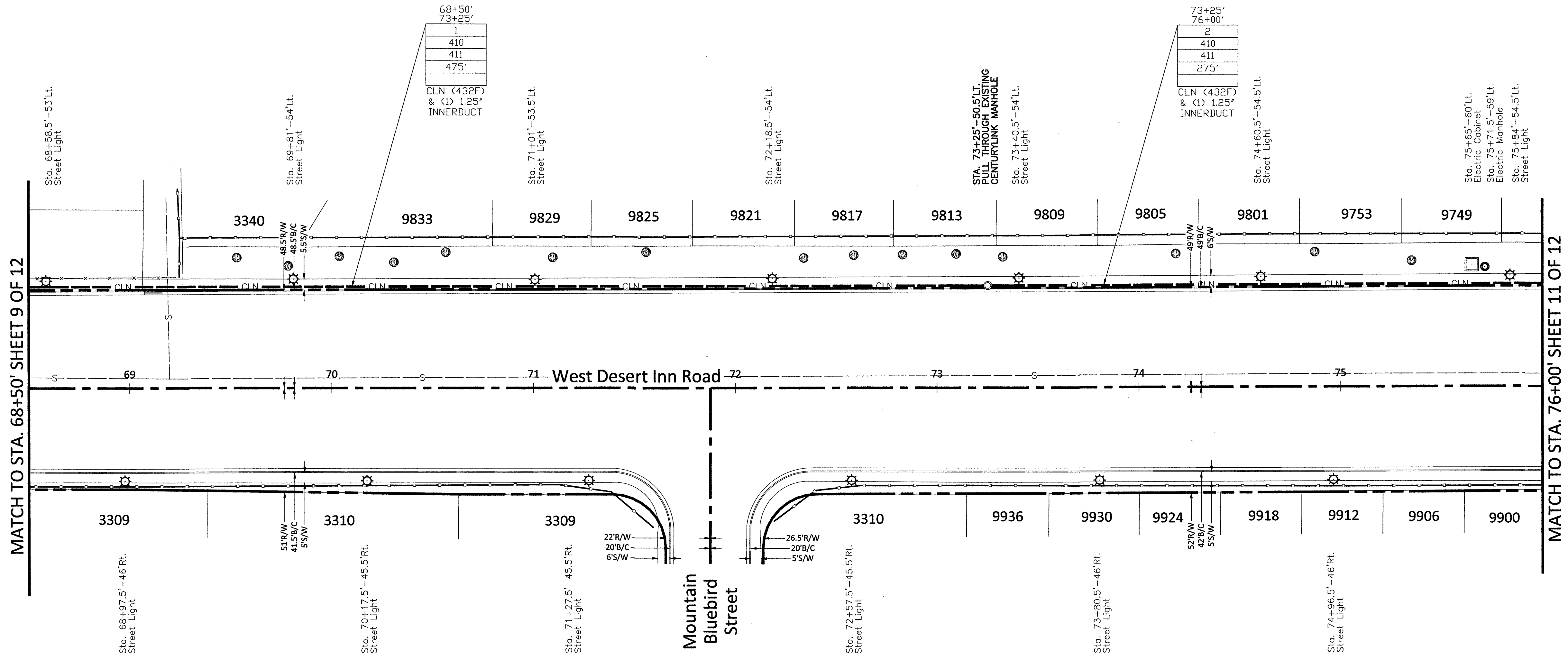
CONSTRUCTION DRAWING
CITY OF LAS VEGAS, NEVADA



Call at least two full working days
before you begin excavation.

811 Know what's below.
Call 811 before you dig.

PROJECT:	917154, 917159, 917205, 917206
CELL SITE:	LSV WILLOWS
CITY OF LAS VEGAS, NEVADA	
CLARIFICATION NO.	QUANTITY
SHEET TOTAL	
2" HDPE CONDUIT:	-
4" HDPE CONDUIT:	-
2' x 3' x 2' HANDHOLE(S):	-
2.5' x 5' x 2.5' HANDHOLE(S):	-
4' x 5' x 4' HANDHOLE(S):	-
MANHOLE(S):	-
AERIAL:	-
V2W CONDUIT:	-
3RD PARTY CONDUIT:	750'
TRENCH:	-
TOTAL NEW UG FOOTAGE:	-
TOTAL FOOTAGE:	750'



RTC NOTES:	
BACKFILL AND RIGHT OF WAY RESTORATION SHALL CONFORM TO CLARK COUNTY UNIFORM STANDARD DRAWINGS	
(1) 500.1	0 TO 5 YEARS PAVEMENT RESTORATION LONGITUDINAL CUT
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- 520 PLACE AERIAL CABLE
- 630 DIRECTIONAL BORE

MCI
COMMUNICATIONS SERVICES, INC.
OUTSIDE PLANT CONSTRUCTION
TITLE: CELL SITE: LSV WILLOWS

DATE:	7/17/2018
DRAWN BY:	CMENDOZA
REVISIONS	
DATE	INITIAL

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SCALE

HORIZONTAL: 1"=30'

VERTICAL: NA

MP TO MP

SHEET 10 OF 12

LSV WILLOWS - CITY OF LAS VEGAS - REV 07-17-18

TRENCH DETAIL

EXISTING GRADE

36" MIN

18" MIN

2" MIN

12" MIN

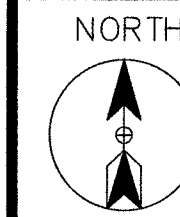
WARNING TAPE

1 SACK SLURRY BACKFILL

1-2" CONDUIT

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before you begin excavation.

811 Know what's below.
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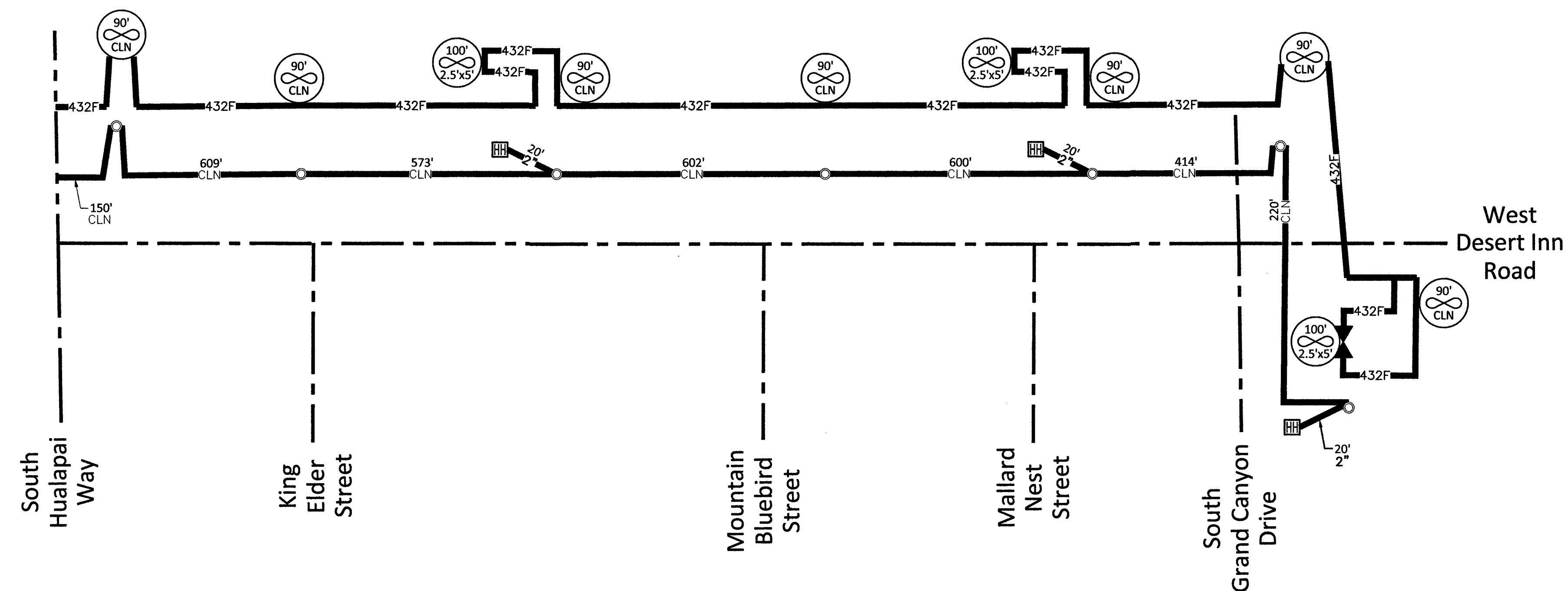


CITY OF LAS VEGAS, NEVADA

FIBER TOTALS

FIBER SIZE/LENGTH: 432/4,032'

*Placing Innerduct at all CLN



SITE-SPAN ID: 1709AKKD.42, 1706AVNN.65

FQPID	SEGMENT	FIBER COUNT	TRENCH	BORE	DB/OT	3RD PARTY	VZ OWNED	AERIAL	TOTAL
FIB:BUR::56000267	917154	432F	'	'	'	2,912'	'	'	2,912'
FIB:BUR::56000788	917159	432F	'	'	'	150'	'	'	150'
FIB:BUR::56000788	917205	432F	20'	'	'	'	'	'	20'
FIB:BUR::56001777	917206	432F	20'	'	'	'	'	'	20'

TITLE: CELL SITE: LSV WILLOWS

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REVISIONS

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SCALE

HORIZONTAL: $1''=30'$

VERTICAL:	NA
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MP	TO MP
----	-------

SHEET 12 OF 12

FILE: LSV WILLOWS - CITY OF
LAS VEGAS - REV
07-17-18