

INDEX SHEET

CITY OF LAS VEGAS, NEVADA

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OUTSIDE PLANT CONSTRUCTION

TITLE: CELL SITE: LSV HOWARD, LSV
 SSUNDERLAND SC, LSV CRYSTAL PALACE

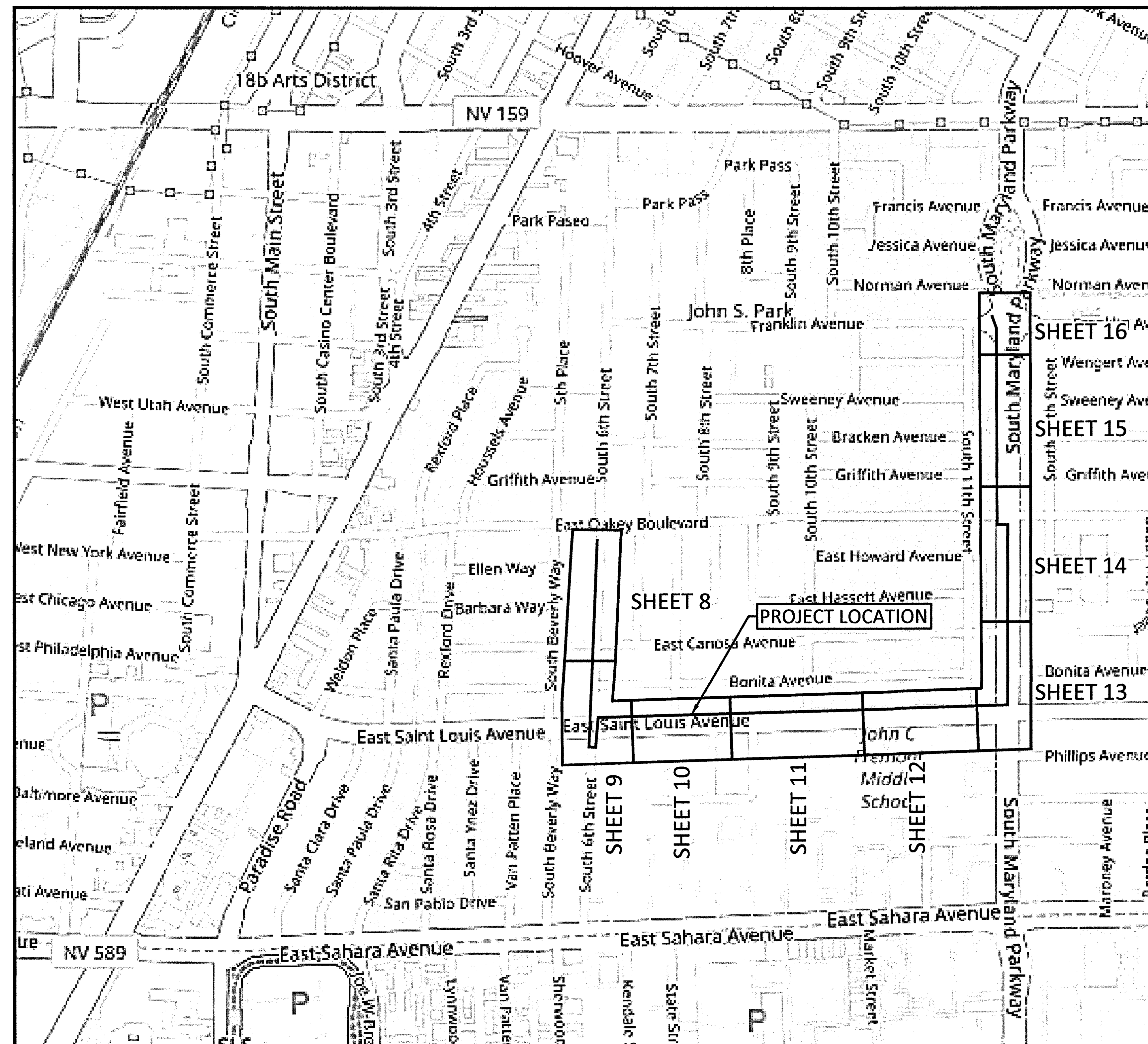
REVISIONS

[illegible]

SCAIF

SHEET 1 OF 1

FILE: LSV CRYSTAL PALACE SC,
HOWARD, & SUNDERLAND SC



GENERAL NOTES / CLARIFICATION NOTES

CITY OF LAS VEGAS GENERAL NOTES:

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 EDITION; 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 SATISFACTORY 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 ($\frac{1}{2}$ ") 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.

19. 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

GENERAL NOTES

1. *WORLD COM PRIZES THE FOLLOWING OPERATING ENTITIES:
 - BROOKS FIBER PROPERTIES, INC.
 - MCI METRO ACCESS TRANSMISSION SERVICES, LLC
 - SOUTHERNET, INC.
 - MCI WORLD COM NETWORK SERVICES, INC.
 - (COMPRISES MCI TELECOMMUNICATIONS CORP. (MCI LD)
 - AND WORLD COM NETWORK SERVICES, INC. (WORLD COM LD)
 - MFS TELECOM, INC.
 - TELECOM*USA, INC.
 - SOUTHERNET SYSTEMS, INC.
 - MCI WORLD COM NETWORK SERVICES OF VIRGINIA
 - MCI METRO ACCESS TRANSMISSION SERVICES OF VIRGINIA, INC.
 - *THE WORLD COM 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, WORLD COM 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.

ADDENDUM NOTES

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. |
-
- | | |
|-----|---|
| 110 | 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 ENCASMENT |
| 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/MANHOLE |
| 712 | REMOVE BURIED CABLE MARKER POST/HARDWARE |
| 714 | REMOVE CONCRETE BURIED CABLE MARKER POST |



PROJECT: 916049, 916050, 916051,
916100, 916101, 916103,
916104, 916158, 916159,
916160

CELL SITE: LSV HOWARD, LSV SUNDERLAND SC,
LSV CRYSTAL PALACE SC
CITY OF LAS VEGAS, NEVADA

CLARIFICATION NO.	QUANTITY
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This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.

MCI
COMMUNICATIONS SERVICES, INC.

OUTSIDE PLANT CONSTRUCTION

TITLE: CELL SITE: LSV HOWARD, LSV
SUNDERLAND SC, LSV CRYSTAL PALACE
SC

DATE: 10/4/2018

DRAWN BY: JJAMES

REVISIONS

[illegible]

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SCALE

HORIZONTAL: 1"=30'

VERTICAL: NA

MP	TO MP
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SHEET 2 OF 19

FILE: LSV CRYSTAL PALACE SC,
HOWARD, & SUNDERLAND SC

CELL SITE: LSV HOWARD, LSV SUNDERLAND SC,
LSV CRYSTAL PALACE SC
CITY OF LAS VEGAS, NEVADA

CLARIFICATION NO.	QUANTITY
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11.4 HANDHOLE/MANHOLE GROUNDING

MCI-furnished materials:

- ## 11.5 AERIAL CABLE GROUNDING

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

- 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 lineman.
- 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.

OUTSIDE PLANT ENGINEERING:

OUTSIDE PLANT CONSTRUCTION:

RIGHT-OF-WAY:

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
TSO MANAGER: N/A

ENGINEERING CONTRACTOR

NAME OF FIRM: BPG DESIGNS 1-602-954-2223
PROJECT MANAGER: CORY VENDENBOS 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):	5,553'
2.5" x 2" HDPE CONDUIT(S):	194'
4" HDPE CONDUIT(S):	-
2' x 3' x 2' HANDHOLE(S):	1
2.5' x 5' x 2.5' HANDHOLE(S):	7
4' x 4' x 4' HANDHOLE(S):	-
MANHOLES:	-

WORK TYPE

AERIAL:	-
VZW CONDUIT:	-
3RD PARTY CONDUIT:	3,564'
TRENCH:	4,186'
ASPHALT CUT:	-
BORE:	-

TOTAL NEW UG FOOTAGE:	4,186'
TOTAL FOOTAGE:	7,750'

DATE: 10/4/2018

DRAWN BY: JJAMES

REVISIONS

DATE	INITIAL

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SCALE

HORIZONTAL: $1''=30'$

VERTICAL: NA

MP TO MP

SHEET 3 OF 19

FILE: LSV CRYSTAL PALACE SC,
HOWARD, & SUNDERLAND SC

0 10 20 30 40 50

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

SYMBOLS KEY

BURIED CABLE	EXISTING/PROPOSED
AERIAL CABLE	A
SUBMARINE CABLE	SUBM
FOGWIRE CABLE	FOGW
DIRECT BURIED HDPE	H
PVC OR SPLIT PVC CONDUIT	
BSP/GSP OR SPLIT BSP/GSP CONDUIT	
STEEL CASING	
REMOVE AND RESTORE ASPHALT OR CONCRETE (WIDTH AS INDICATED)	48"
CORE BORE	
JACK AND BORE	
DIRECTIONAL BORE	DB
OPEN TRENCH	OT
FUTURE CABLE	
REMOVE CABLE	R
TO BE REMOVED OR ABANDONED (SHOWN FOR HDPE)	X H
AERIAL UTILITY (ELECTRIC)	
UNDERGROUND UTILITY (TELEPHONE)	
MAIN TRACKS	
AUXILLARY TRACKS	
CENTERLINE	
RIGHT-OF-WAY	
DITCH LINE	D/L
CITY, COUNTY OR STATE BOUNDARY LINE	
PROPERTY LINE	
BLOCKWALL	
FENCE LINE	
GUARDRAIL	I
TOP OF SLOPE	
TOE OF SLOPE	

STEEL MARKER AND SIGN-(A)
ALUMINUM "HUB"-STYLE MARKER-(B)
FLAT MARKER-(C)
TUBULAR MARKER-(D)
TUBULAR MARKER, & ISOLATOR PROTECTOR-(E)

MILE POST MARKER
NOTE:
DASHED = NOT FOUND IN FIELD

PERMIT TRACKING FORM IDENTIFIER

UTILITY COVER DEPTH

HANDHOLE, VAULT OR PULLBOX

STREET LIGHT

WOOD POLE & STEEL POLE

ANCHOR ONLY

GUY ONLY

OVERHEAD GUY (ARROW IN DIRECTION OF PULL)

ANCHOR AND GUY

SIDEWALK ANCHOR AND GUY

FOREIGN ANCHOR AND GUY

PUSH BRACE (EXISTING POLE)

ACCOUNT CODE CHANGE (BURIED TO AERIAL)

RISER POLE

BOND AND GROUND

CULVERT (SIZE AS INDICATED)

BRIDGE

METER

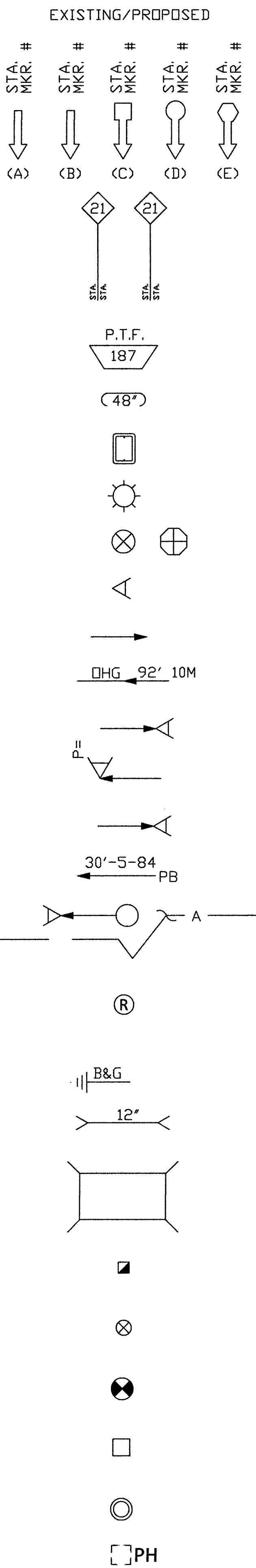
VALVE

FIRE HYDRANT

RAILROAD SIGNAL CONTROL BOX

MANHOLE

POTHOLE





PROJECT: 916048, 916050, 916051, 916100, 916101, 916103, 916104, 916158, 916159, 916160

CELL SITE: LSV HOWARD, LSV SUNDERLAND SC, LSV CRYSTAL PALACE SC
CITY OF LAS VEGAS, NEVADA

CLARIFICATION NO. QUANTITY

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DATE	INITIAL

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SCALE

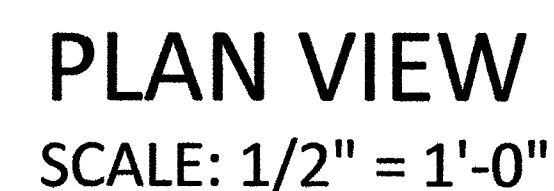
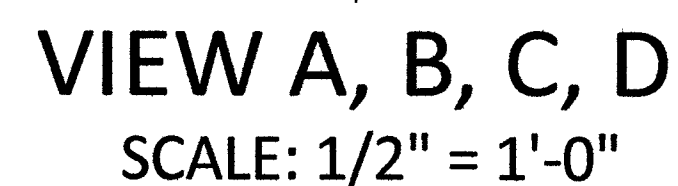
HORIZONTAL: 1"=30'
VERTICAL: NA

MP _____ TO MP _____
SHEET 4 OF 19

LSV CRYSTAL PALACE SC,
FILE: HOWARD, & SUNDERLAND SC

ALL VERTICAL CURVES BEING 14' VERTICAL CURVE LENGTH UNLESS OTHERWISE NOTED

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

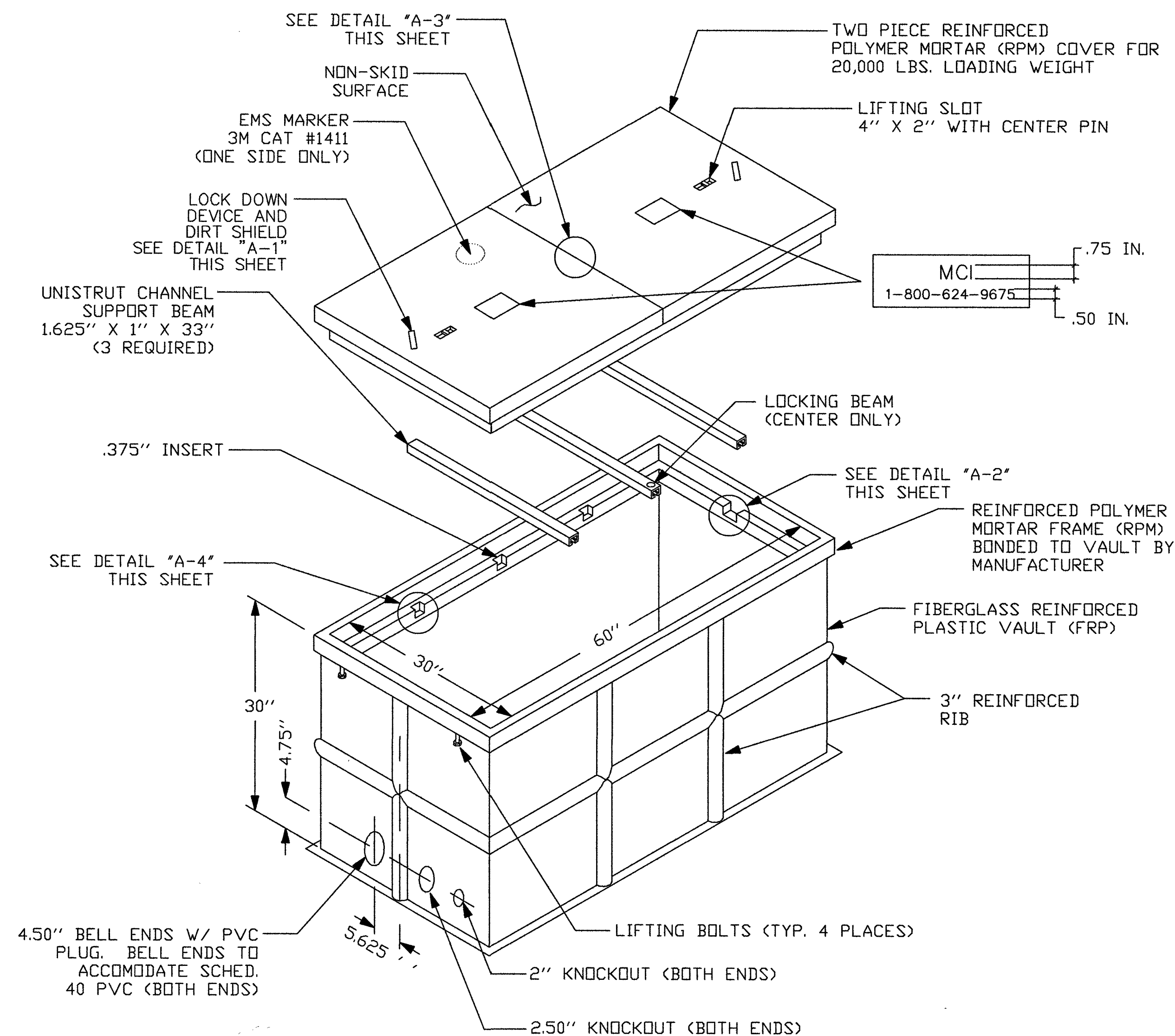


4'x4'x4' TYPE "S" KNOCKOUT

FILE: LSV CRYSTAL PALACE S
HOWARD, & SUNDERLAND

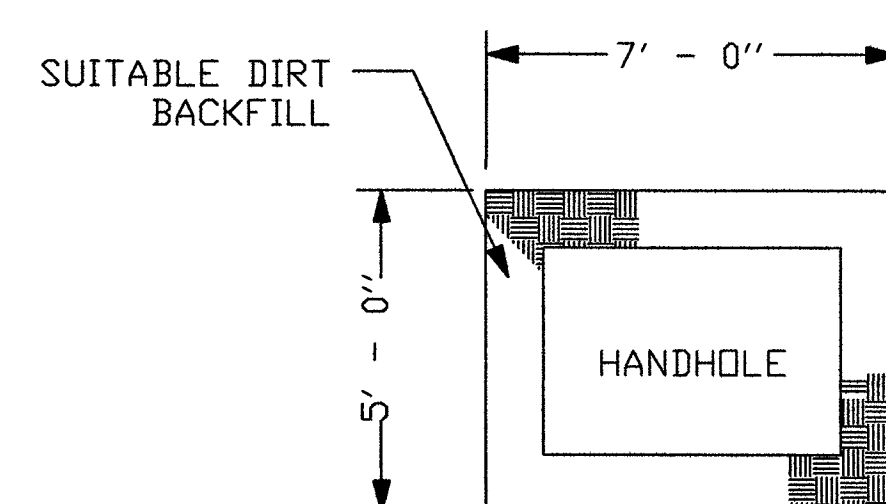
2.5' x 5' x 2.5' HANDHOLE DETAILS

DETAIL "A"
EXPLODED ISOMETRIC DETAIL

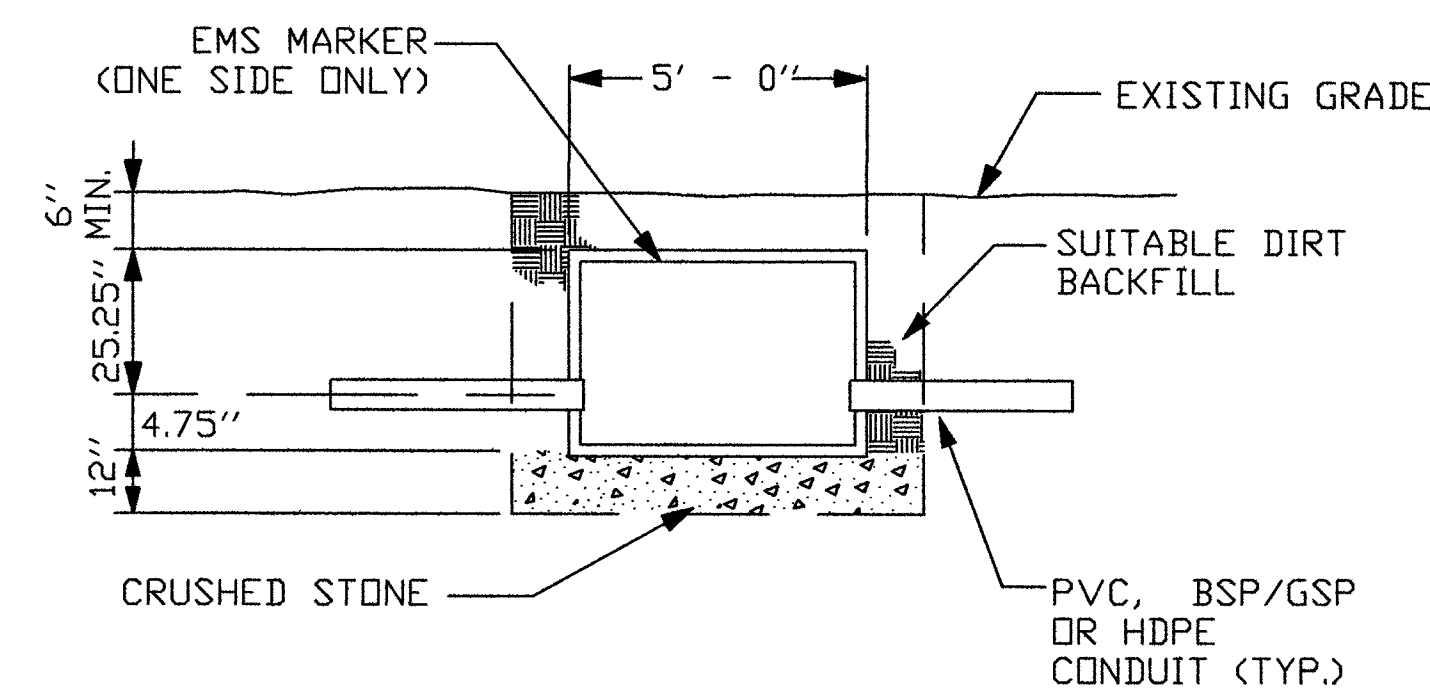


DETAIL "C"
EXCAVATION PIT

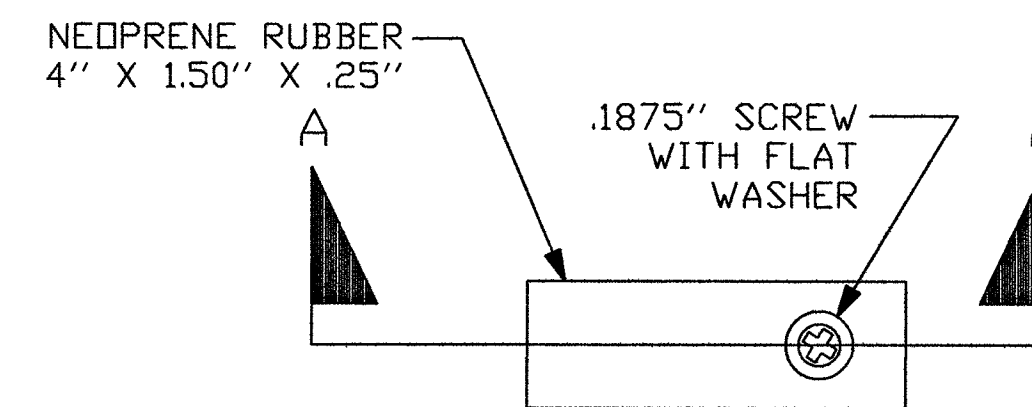
PLAN



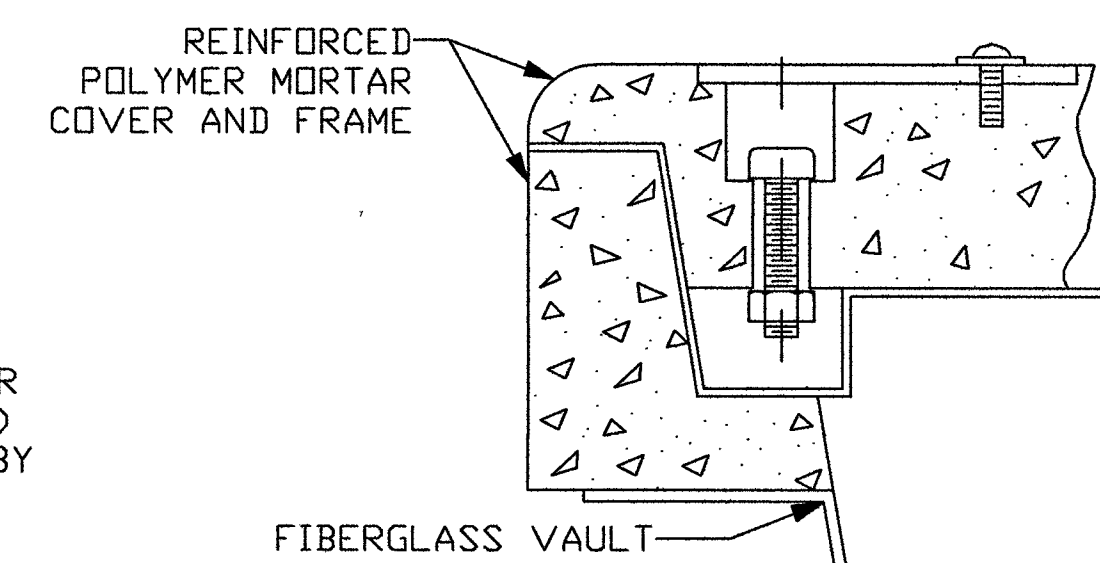
PROFILE



DETAIL "A-1"
LOCK DOWN DEVICE



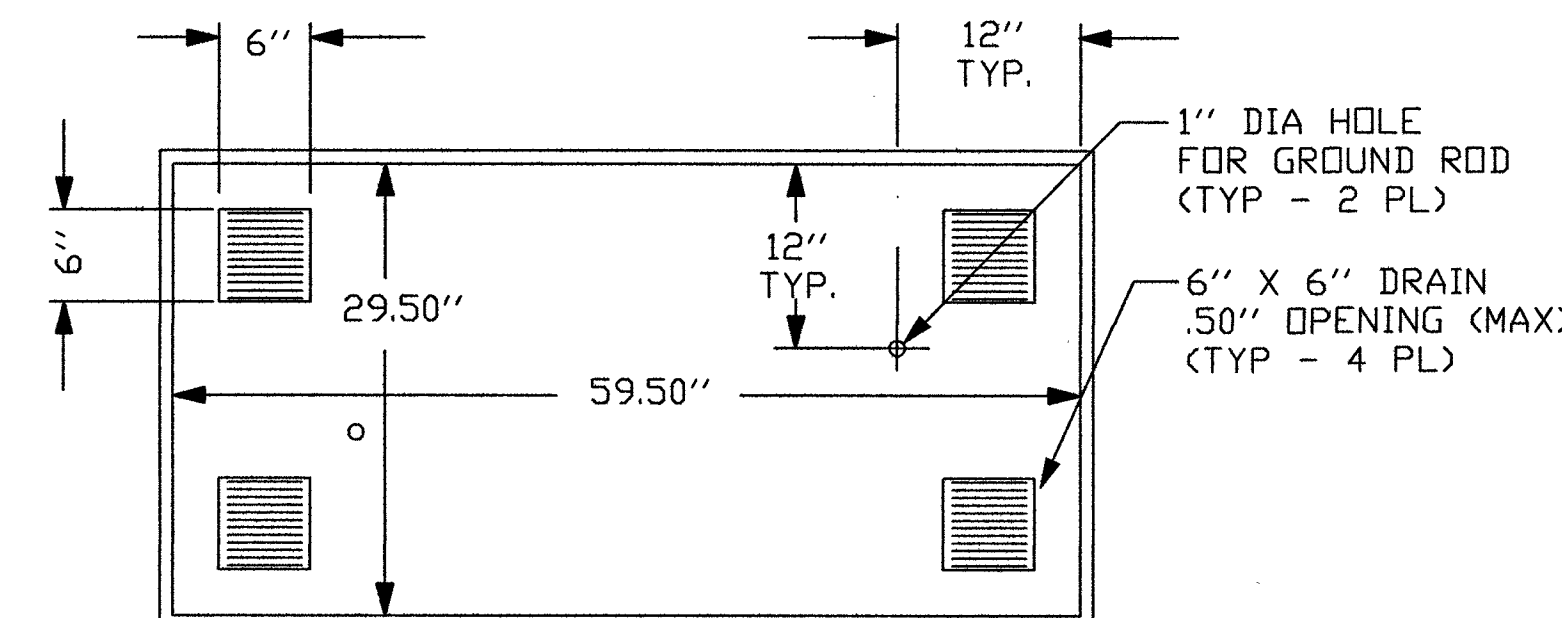
SECTION A-A
LOCKING DEVICE CROSS SECTION



DETAIL "B"

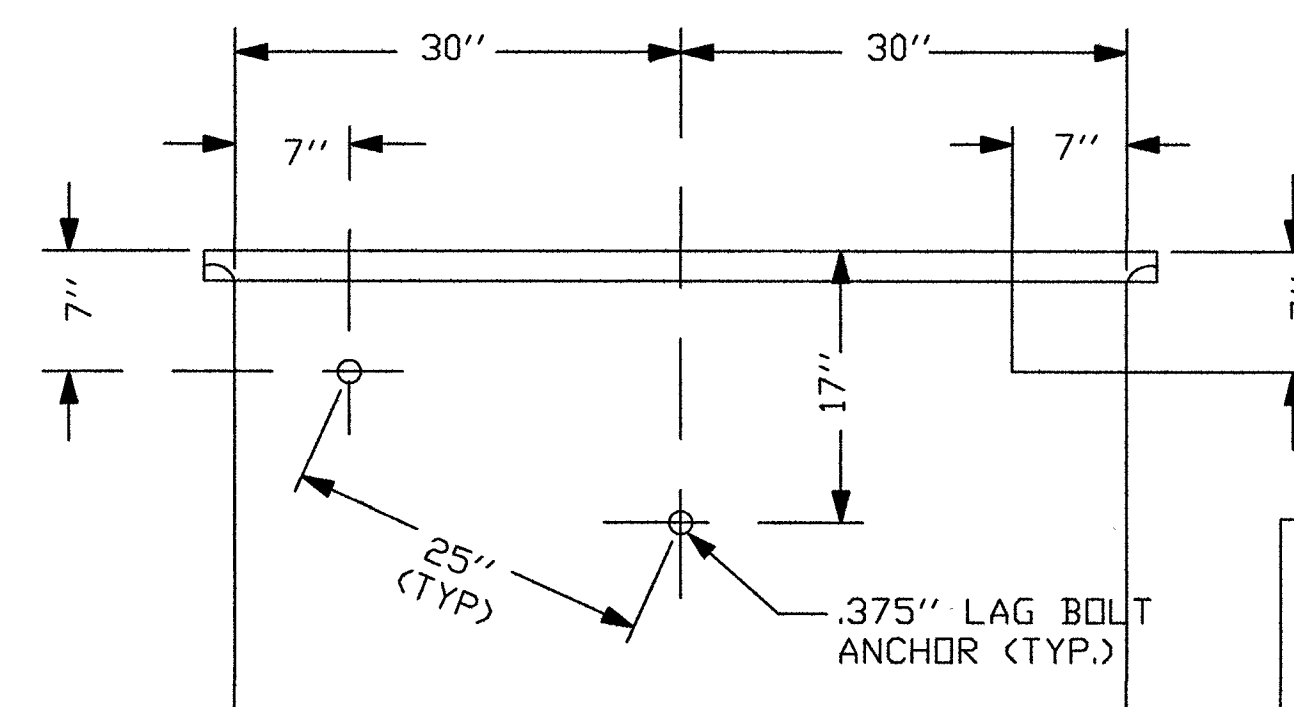
VAULT BOTTOM PLAN VIEW

(144 SQ. IN. TOTAL DRAINAGE)



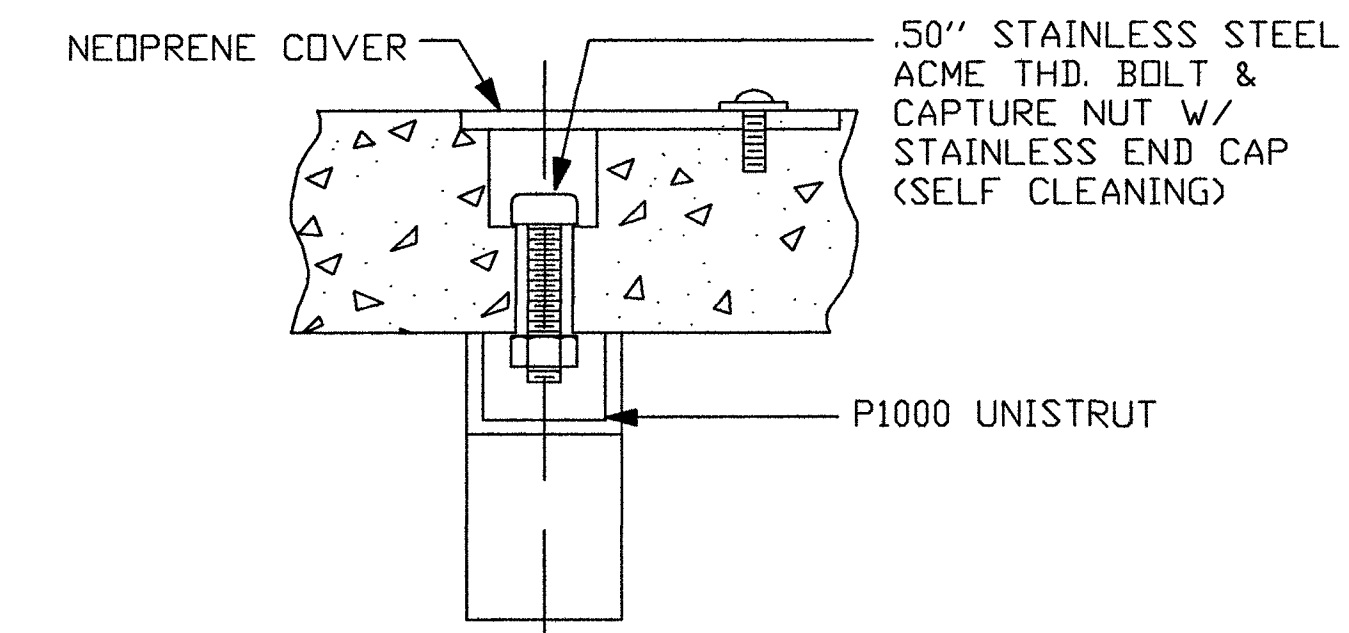
DETAIL "D"

SIDE WALL VIEW INSIDE LOOKING OUT



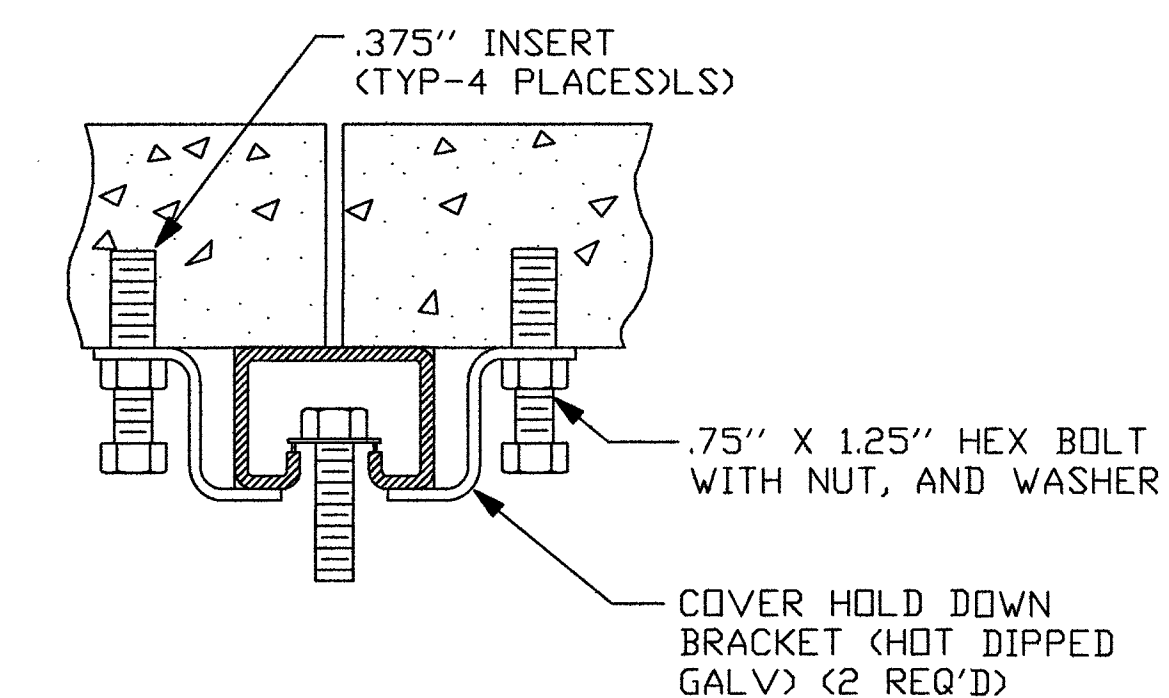
NOTE:
LINEAR DISTANCE BETWEEN LAG BOLT ANCHORS MUST BE 25".

DETAIL "A-2"
ENGAGED LOCK DOWN DEVICE



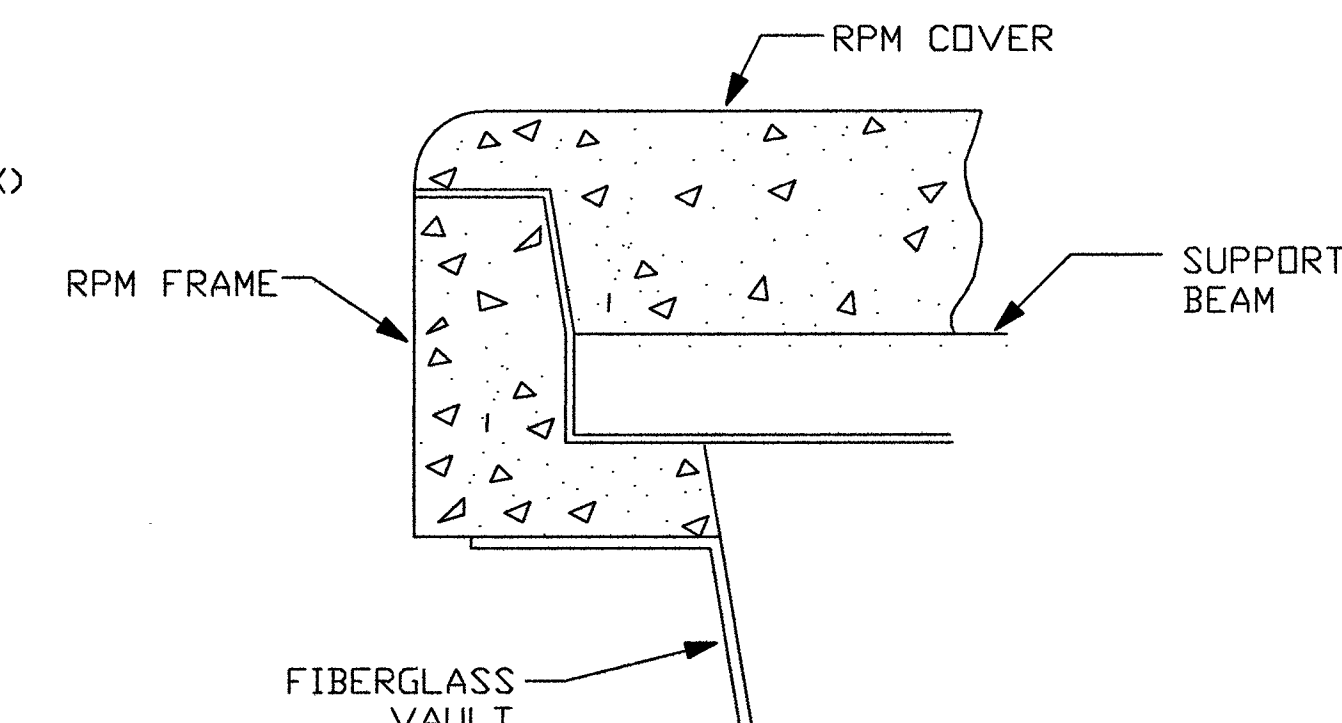
DETAIL "A-3"

COVER HOLD DOWN BRACKET OF 2-PIECE RPM COVER



DETAIL "A-4"

SUPPORT BEAM INSTALLATION (TYP. AT 6 PLACES)



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.



PROJECT: 916049, 916050, 916051, 916100, 916101, 916103, 916104, 916158, 916159, 916160

CELL SITE: LSV HOWARD, LSV SUNDERLAND SC, LSV CRYSTAL PALACE SC, CITY OF LAS VEGAS, NEVADA

CLARIFICATION NO. QUANTITY

COMMUNICATIONS SERVICES, INC.

OUTSIDE PLANT CONSTRUCTION

TITLE: CELL SITE: LSV HOWARD, LSV SUNDERLAND SC, LSV CRYSTAL PALACE SC

DATE: 10/4/2018

DRAWN BY: JJAMES

REVISIONS

DATE	INITIAL

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

MP TO MP

SHEET 6 OF 19

LSV CRYSTAL PALACE SC, FILE: HOWARD, & SUNDERLAND SC



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

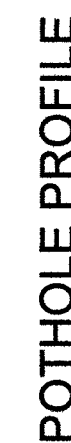
"THE INFORMATION IN THIS DRAWING IS CONFIDENTIAL. THE DRAWING IS NOT TO BE REPRODUCED OR ITS CONTENTS DIVULGED IN ANY WAY WHATSOEVER EXCEPT WITH THE PRIOR WRITTEN APPROVAL OF ARMORCAST PRODUCTS COMPANY. IT IS THE PROPERTY OF AND MUST BE RETURNED TO ARMORCAST PRODUCTS COMPANY, 13230 SATICOY STREET, NORTH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

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

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.

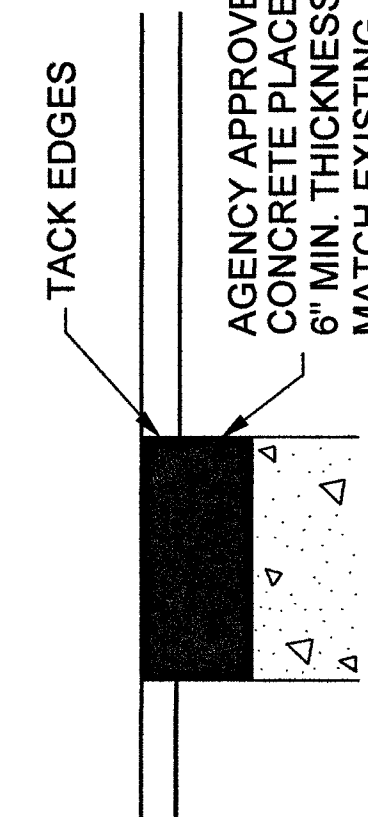
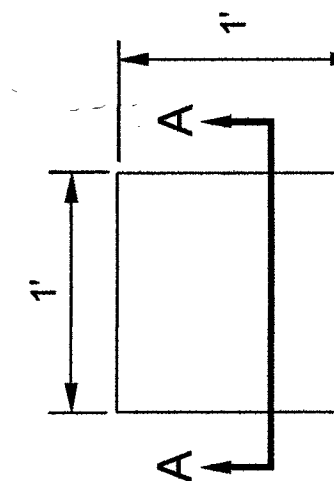
2. BONDING MATERIAL SHALL BE A SINGLE COMPONENT CEMENTITIOUS RAPID HARDENING, HIGH STRENGTH, WATERPROOF BONDING AGENT THAT ALLOWS THE CORE TO SUPPORT AT LEAST THREE TIMES AASHTO H-25 LOADING WITHIN 30 MINUTES OF APPLICATION. BOND AGENT MUST SHOW A MINIMUM 20 PSI BOND STRENGTH (ASTM C882) AND A MINIMUM 200 PSI COMPRESSIVE STRENGTH (ASTM C109) IN 30 MINUTES.

3. AGENCY-APPROVED BACKFILL 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.



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

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



CELL SITE: LSV HOWARD, LSV SUNDERLAND SC
LSV CRYSTAL PALACE SC
CITY OF LAS VEGAS, NEVADA

CLARIFICATION NO.	QUANTITY
-------------------	----------

MCI
COMMUNICATIONS SERVICES, INC.

OUTSIDE PLANT CONSTRUCTION

TITLE: CELL SITE: LSV HOWARD, LSV
SUNDERLAND SC, LSV CRYSTAL PALACE
SC

DATE: 10/4/2018

DRAWN BY: JJAMES

REVISIONS

[illegible]

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SCALE

HORIZONTAL: 1"=30'

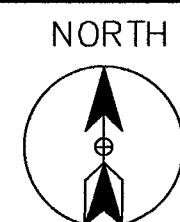
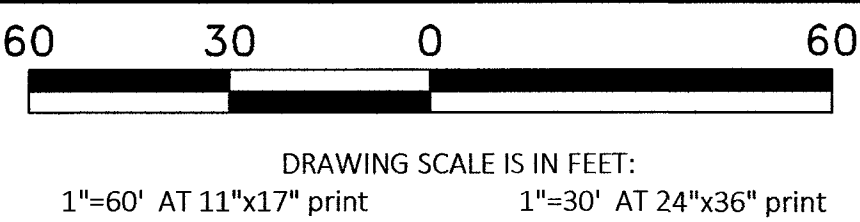
VERTICAL: NA

MP	TO MP
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SHEET 7 OF 1

FILE: LSV CRYSTAL PALACE SC,
HOWARD, & SUNDERLAND SC

CONSTRUCTION DRAWING
CITY OF LAS VEGAS, NEVADA



CELL SITE: LSV CRYSTAL PALACE SC, HOWARD, &
SUNDERLAND SC_REV-09-12-19

CITY OF LAS VEGAS, NEVADA

CLARIFICATION NO.	QUANTITY
SHEET TOTAL	
2" HDPE CONDUIT:	1,675'
2.5" HDPE CONDUIT:	-
4" HDPE CONDUIT:	-
2' x 3' x 2' HANDHOLE(S):	1
2.5' x 5' x 2.5' HANDHOLE(S):	-
4' x 4' x 4' MANHOLE(S):	-
MANHOLE(S):	-
AERIAL:	-
VZW CONDUIT:	-
3RD PARTY CONDUIT:	-
TRENCH:	845'
TOTAL NEW UG FOOTAGE:	845'
TOTAL FOOTAGE:	845'

MCI
COMMUNICATIONS SERVICES, INC.

OUTSIDE PLANT CONSTRUCTION

HUB: LSV FOREMASTER - CELL SITE: LSV CRYSTAL PALACE SC,
HOWARD, & SUNDERLAND SC_REV-09-12-19

DATE: 9/12/2019

DRAWN BY: RJOHNSON

REVISIONS

DATE	DESCRIPTION	INITIAL
9-12-19	ADD 'PROP. R/L DIMS.'	RJ

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SCALE

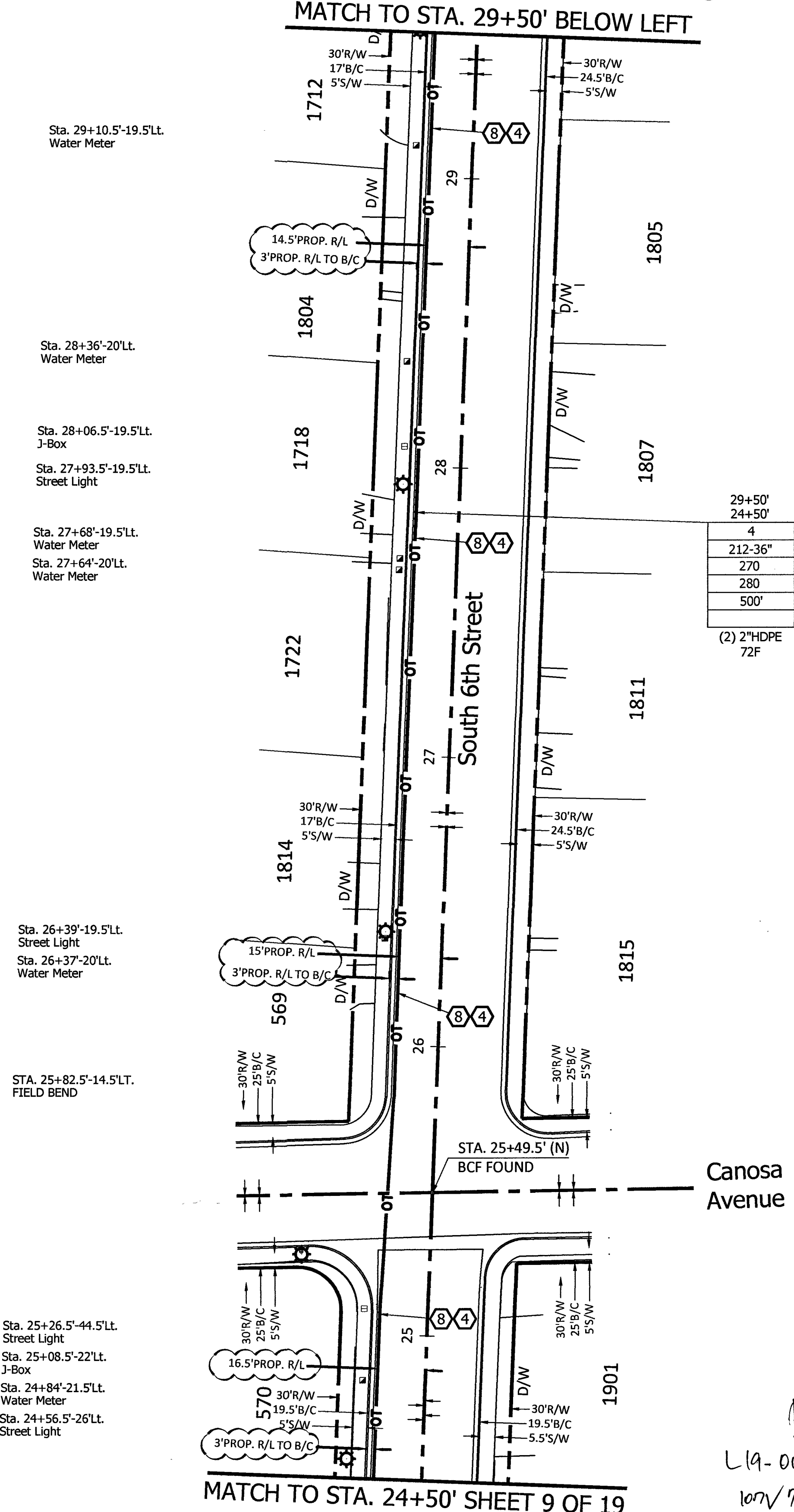
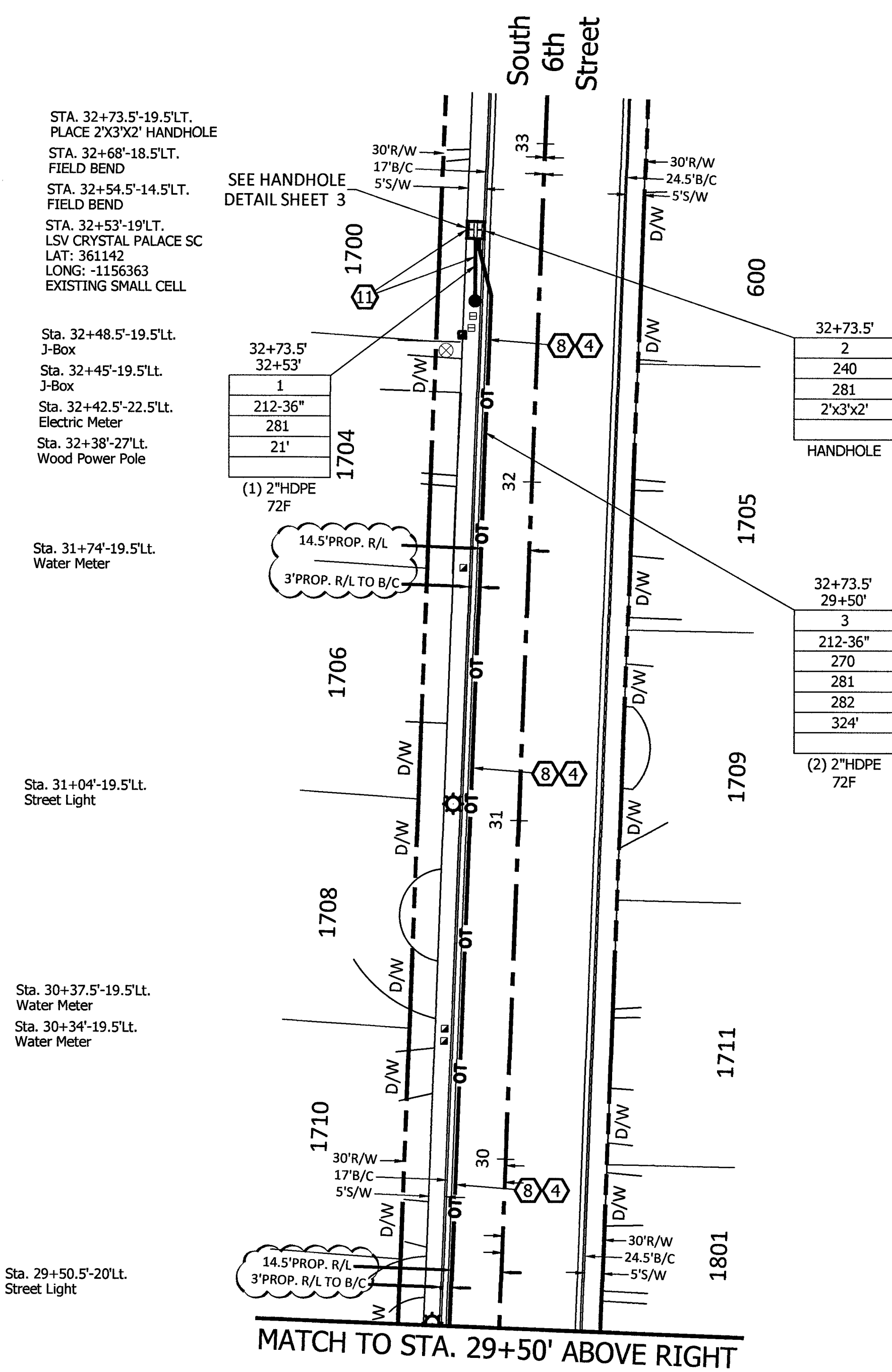
HORIZONTAL: 1"=30'

VERTICAL: NA

MP TO MP

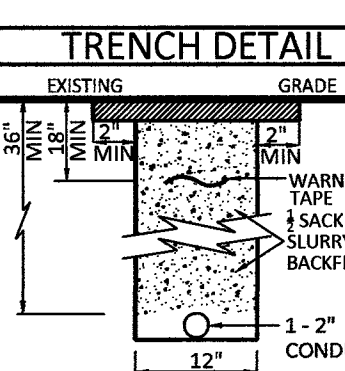
SHEET 8 OF 19

FILE: LSV CRYSTAL PALACE SC, HOWARD, &
SUNDERLAND SC_REV-09-12-19



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.	

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



RePlot
L19-00391-R001
10/27/2019 - FIB

CONSTRUCTION DRAWING

CITY OF LAS VEGAS, NEVADA

60 30 0 60

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

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



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



CELL SITE: LSV CRYSTAL PALACE SC, HOWARD, &
SUNDERLAND SC_REV-09-12-19

CITY OF LAS VEGAS, NEVADA

CLARIFICATION NO.	QUANTITY
SHEET TOTAL	
2" HDPE CONDUIT:	1,133'
2.5" HDPE CONDUIT:	74'
4" HDPE CONDUIT:	-
2' x 3' x 2' HANDHOLE(S):	-
2.5' x 5' x 2.5' HANDHOLE(S):	1
4' x 4' x 4' MANHOLE(S):	-
MANHOLE(S):	-
AERIAL:	-
VZW CONDUIT:	-
3RD PARTY CONDUIT:	432'
TRENCH:	643'
TOTAL NEW UG FOOTAGE:	643'
TOTAL FOOTAGE:	1,075'

MCI
COMMUNICATIONS SERVICES, INC.

OUTSIDE PLANT CONSTRUCTION

HUB: LSV FOREMASTER - CELL SITE: LSV CRYSTAL PALACE SC,
HOWARD, & SUNDERLAND SC_REV-09-12-19

DATE: 9/12/2019

DRAWN BY: RJOHNSON

REVISIONS

DATE	DESCRIPTION	INITIAL
9-12-19	ADD 'PROP. R/L DIMS.'	RJ

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WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE

HORIZONTAL: 1"=30'

VERTICAL: NA

MP TO MP

SHEET 9 OF 19

FILE: LSV CRYSTAL PALACE SC, HOWARD, &
SUNDERLAND SC_REV-09-12-19

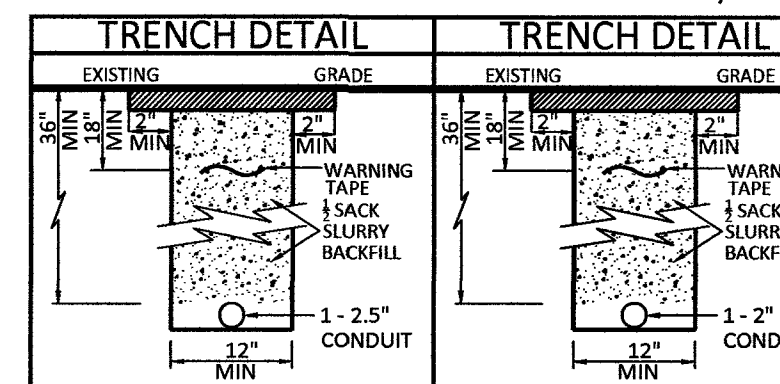
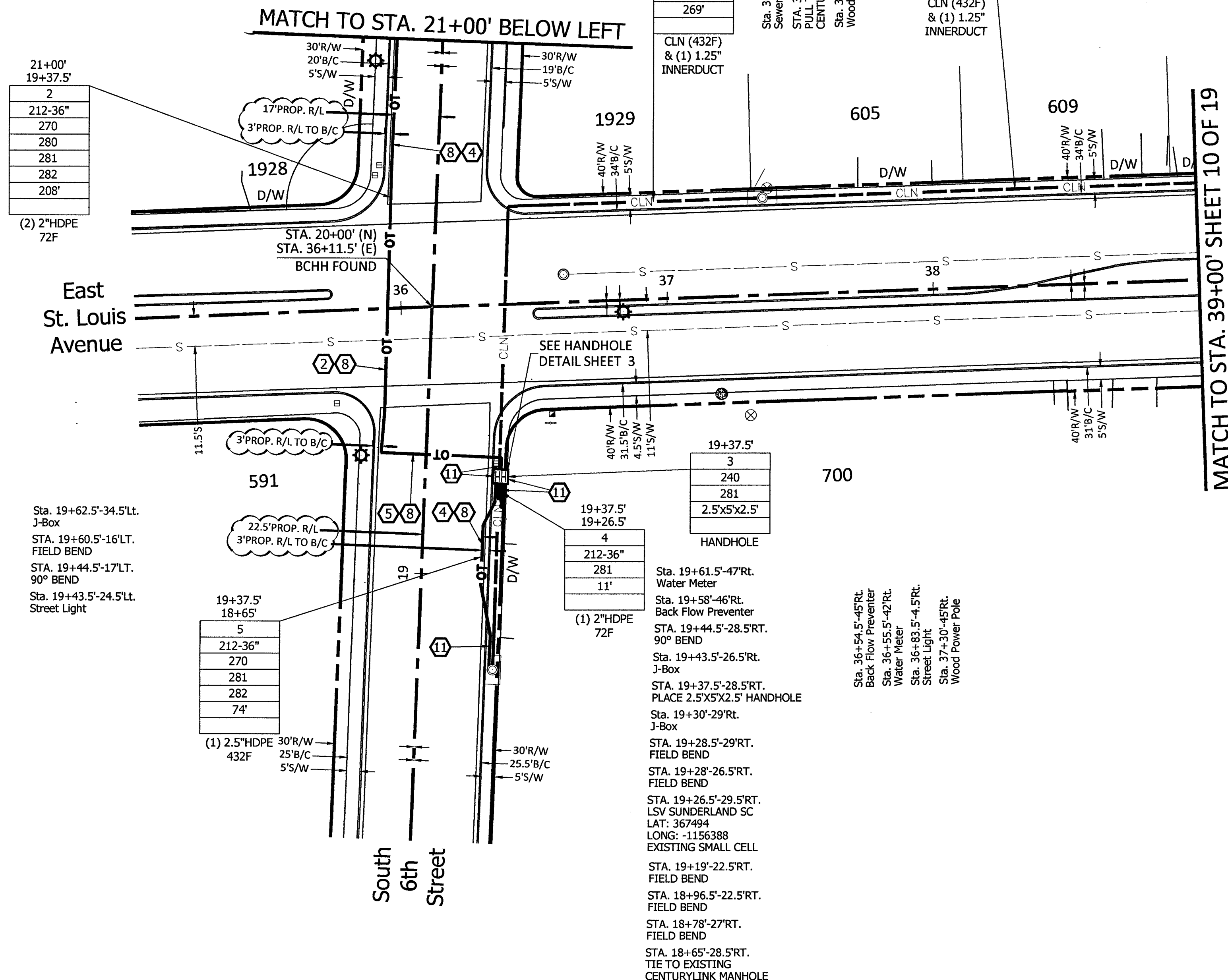
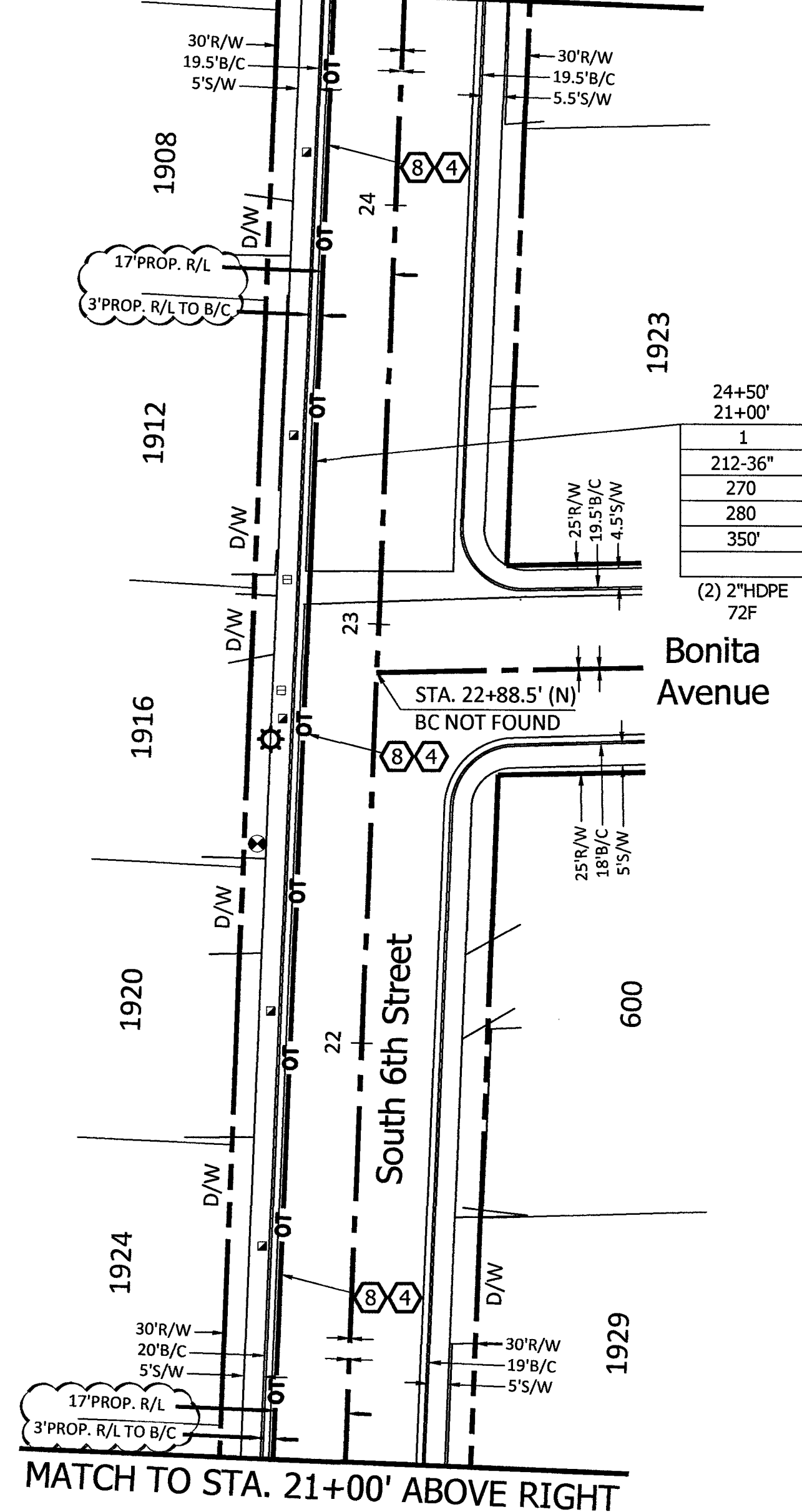
RTC NOTES:

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

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

- 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

MATCH TO STA. 24+50' SHEET 8 OF 19



Replan

RTC NOTES: BACKFILL AND RIGHT OF WAY RESTORATION SHALL CONFORM TO CLARK COUNTY UNIFORM STANDARD DRAWINGS. Table with 2 columns: Item, Description. Items include pavement restoration, utility locations, trench backfill methods, and sidewalk details.

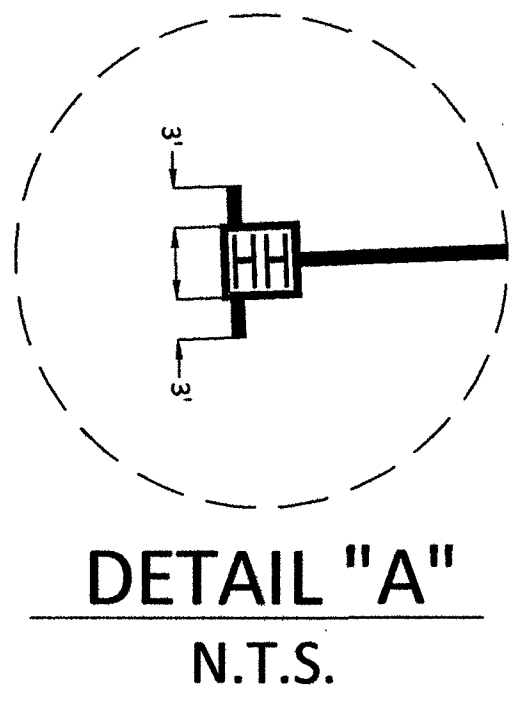
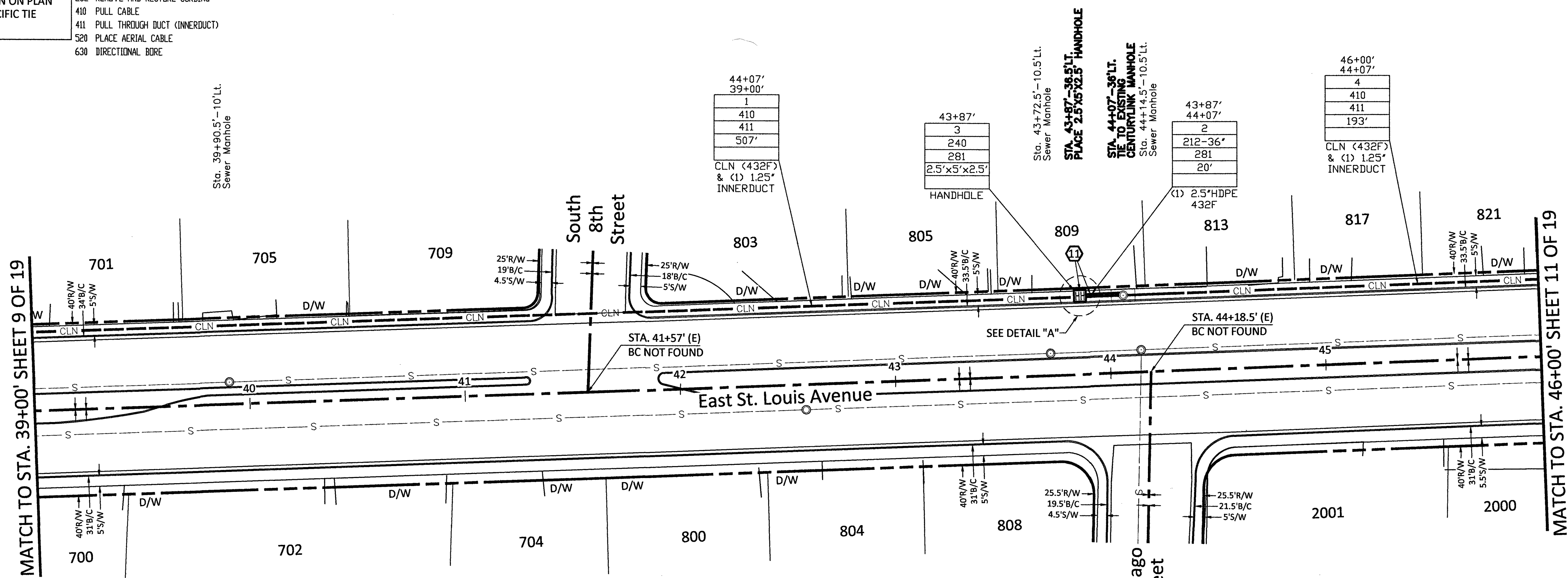
NOTE TO CONTRACTOR: Table with 2 columns: Item, Description. Items include placing conduit, handhole, manhole, and restoring pavement/concrete/sidewalk/curb.

CONSTRUCTION DRAWING CITY OF LAS VEGAS, NEVADA

Scale bar (1"=60' AT 11"x17" print, 1"=30' AT 24"x36" print), North arrow, 811 logo with text 'Know what's below. Call 811 before you dig.'

MCI logo, PROJECT: 916049, 916050, 916051, 916100, 916101, 916103, 916104, 916158, 916159, 916160. CELL SITE: LSV HOWARD, LSV SUNDERLAND SC, LSV CRYSTAL PALACE SC. CITY OF LAS VEGAS, NEVADA.

CLARIFICATION NO. QUANTITY. Table with 2 columns: Clarification No., Quantity. Rows include SHEET TOTAL, 2" HDPE CONDUIT (6'), 2.5" HDPE CONDUIT (20'), 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 (700'), TRENCH (20'), TOTAL NEW UG FOOTAGE (20'), TOTAL FOOTAGE (720').

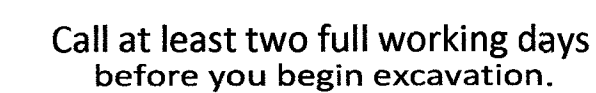
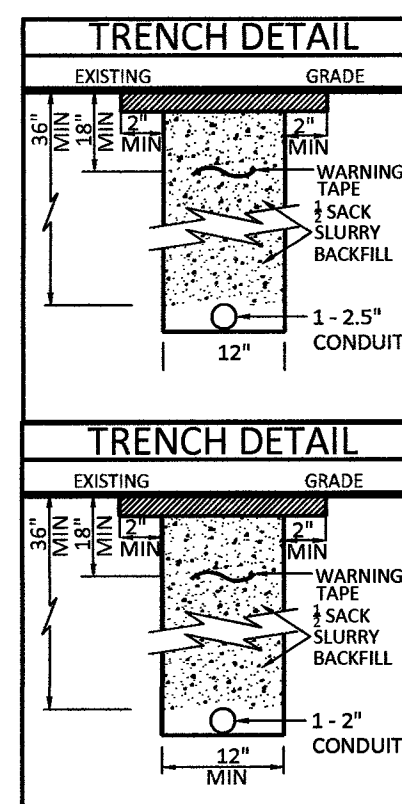


TRENCH DETAIL and SCALE. Table with 2 columns: EXISTING, GRADE. Rows show trench cross-sections with 12" and 12" MIN dimensions. SCALE: HORIZONTAL: 1"=30', VERTICAL: NA. SHEET 10 OF 19. FILE: LSV CRYSTAL PALACE SC, HOWARD, & SUNDERLAND SC.

COMMUNICATIONS SERVICES, INC. OUTSIDE PLANT CONSTRUCTION. DATE: 10/4/2018. DRAWN BY: JJAMES. REVISIONS table. EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE DRAWINGS AND SPECIFICATIONS SHALL REMAIN THE PROPERTY OF MCI COMMUNICATIONS SERVICES, INC. SCALE: HORIZONTAL: 1"=30', VERTICAL: NA. SHEET 10 OF 19. FILE: LSV CRYSTAL PALACE SC, HOWARD, & SUNDERLAND SC.

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

210 PLACE CONDUIT
212 PLACE HIGH DENSITY POLYETHYLENE (HDPE)
240 PLACE MANHOLE
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



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



CELL SITE: LSV CRYSTAL PALACE SC, HOWARD, &
SUNDERLAND SC, REV-09-12-19

CITY OF LAS VEGAS, NEVADA

CLARIFICATION NO.	QUANTITY
SHEET TOTAL	
2" HDPE CONDUIT:	610'
2.5" HDPE CONDUIT:	20'
4" HDPE CONDUIT:	-
2' x 3' x 2' HANDHOLE(S):	-
2.5' x 5' x 2.5' HANDHOLE(S):	1
4' x 4' x 4' MANHOLE(S):	-
MANHOLE(S):	-
AERIAL:	-
VZW CONDUIT:	-
3RD PARTY CONDUIT:	479'
TRENCH:	322'
TOTAL NEW UG FOOTAGE:	322'
TOTAL FOOTAGE:	801'

MCI
COMMUNICATIONS SERVICES, INC.

OUTSIDE PLANT CONSTRUCTION

HUB: LSV FOREMASTER - CELL SITE: LSV CRYSTAL PALACE SC,
HOWARD, & SUNDERLAND SC. REV-09-12-19

DATE: 9/12/2019

DRAWN BY: RJOHNSON

REVISIONS

[illegible]

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SCALE

HORIZONTAL: 1"=30'

VERTICAL: NA

MP	TO MP
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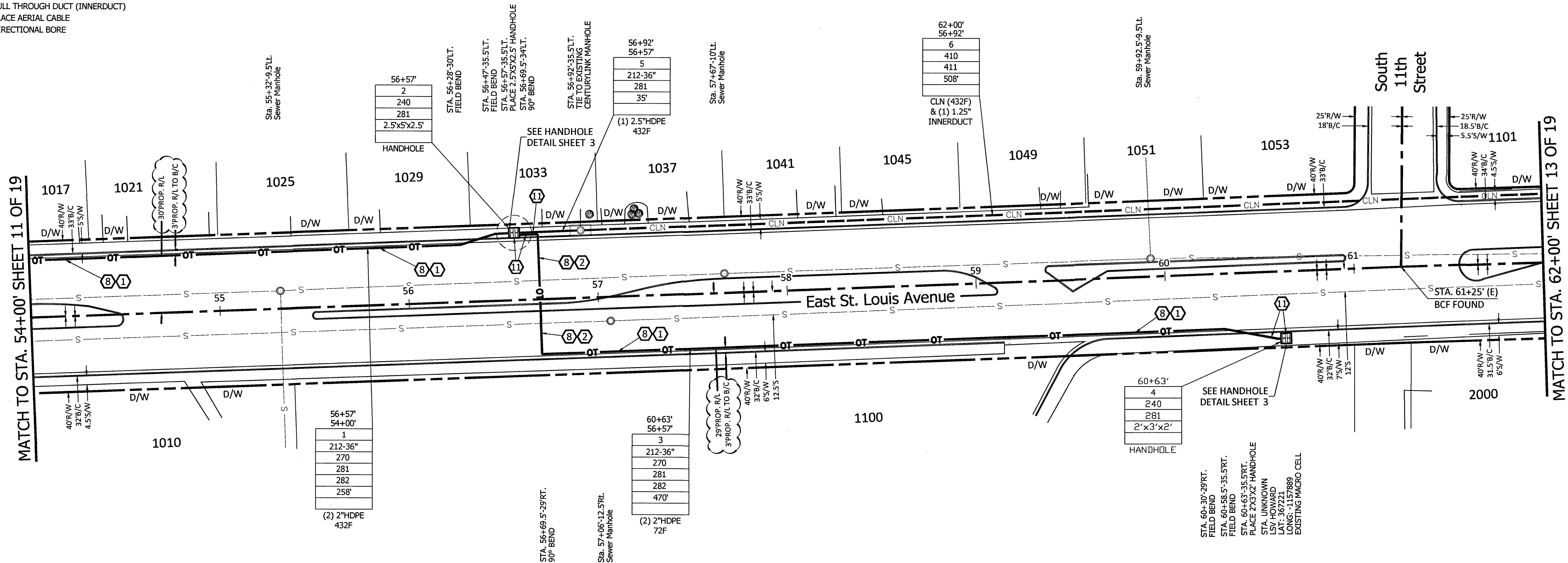
SHEET 11 OF 19

FILE: LSV CRYSTAL PALACE SC, HOWARD,
SUNDERLAND SC REV-09-12-19

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
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(11)	234	SIDEWALK
(12)		BACKFILL IN UNPAVED AREA AS REQUIRED BY LOCAL CODE OR AS APPROVED BY AGENCY.

- 210 PLACE CONDUIT
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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



6030060

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

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

811

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

NORTH

CELL SITE: LSV CRYSTAL PALACE SC, HOWARD, &
SUNDERLAND SC_REV-09-12-19

CITY OF LAS VEGAS, NEVADA

CLARIFICATION NO.	QUANTITY
SHEET TOTAL	
2" HDPE CONDUIT:	1,468'
2.5" HDPE CONDUIT:	35'
4" HDPE CONDUIT:	-
2' x 3' x 2' HANDHOLE(S):	1
2.5' x 5' x 2.5' HANDHOLE(S):	1
4' x 4' x 4' MANHOLE(S):	-
MANHOLE(S):	-
AERIAL:	-
VZW CONDUIT:	-
3RD PARTY CONDUIT:	508'
TRENCH:	763'
TOTAL NEW UG FOOTAGE:	763'
TOTAL FOOTAGE:	1,271'

MCI
COMMUNICATIONS SERVICES, INC.

OUTSIDE PLANT CONSTRUCTION

CELL SITE: LSV CRYSTAL PALACE SC,
HOWARD, & SUNDERLAND SC_REV-09-12-19

DATE: 9/12/2019

DRAWN BY: RJOHNSON

REVISIONS		
DATE	DESCRIPTION	INITIAL
9-12-19	ADD 'PROP. R/L DIMS.'	RJ

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SCALE

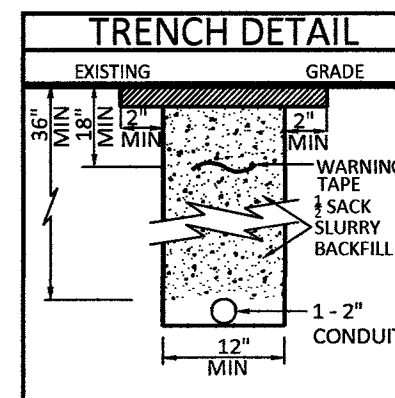
HORIZONTAL: 1"=30'

VERTICAL: NA

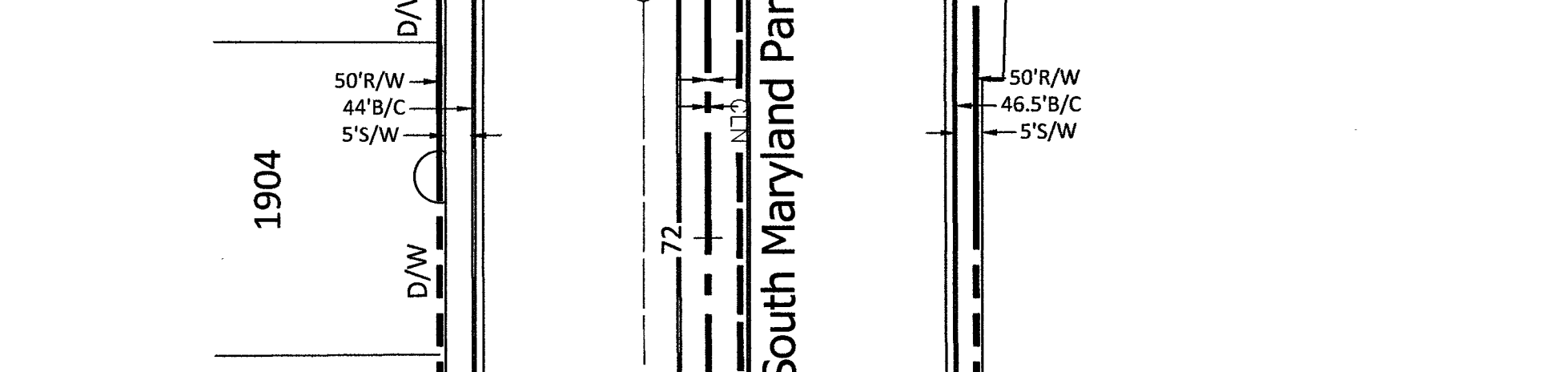
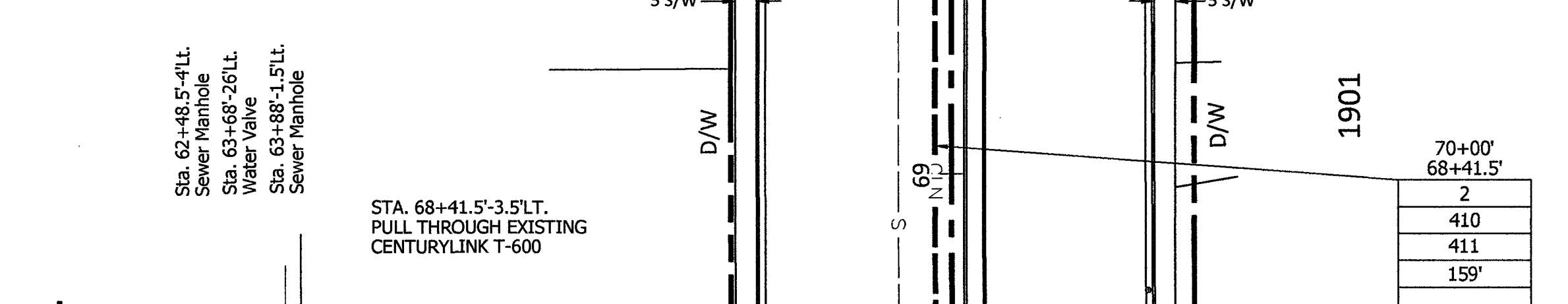
MP TO MP

SHEET 12 OF 19

FILE: LSV CRYSTAL PALACE SC, HOWARD, &
SUNDERLAND SC_REV-09-12-19



BACKFILL AND RIGHT OF WAY RESTORATION SHALL CONFORM TO CLARK COUNTY UNIFORM STANDARD DRAWINGS	
500.1	0 TO 5 YEARS PAVEMENT RESTORATION LONGITUDINAL CUT
500.2	0 TO 5 YEARS PAVEMENT RESTORATION TRAVERSE CUT
500.3	OVER 5 YEARS PAVEMENT RESTORATION LONGITUDINAL CUT. GREATER THAN 60' R.O.W
500.4	OVER 5 YEARS PAVEMENT RESTORATION LONGITUDINAL CUT. 60' R.O.W OR LESS
500.5	OVER 5 YEARS PAVEMENT RESTORATION TRAVERSE ALL R.O.W WIDTHS
501	TYPICAL UNDERGROUND UTILITY LOCATIONS IN RESIDENTIAL STREETS 60' OR LESS R.O.W
501.1	TYPICAL UTILITY UNDERGROUND LOCATIONS IN STREETS WITH GREATER THAN 60' R.O.W
503	METHOD B FOR RIGID AND FLEXIBLE PIPE TRENCH BACKFILL - PAVED AREAS
503.1	METHOD A FOR FLEXIBLE PIPE TRENCH BACKFILL - PAVED AREAS
503.2	METHOD A FOR RIGID PIPE TRENCH BACKFILL - PAVED AREAS
234	SIDEWALK
BACKFILL IN UNPAVED AREA AS REQUIRED BY LOCAL CODE OR AS APPROVED BY AGENCY.	



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

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

- 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

Sta. 76+81'-11" Lt.
Sewer Manhole

75+04'
3
240
281
2.5'x5'x2.5'

STA. 75+04'-46.5" LT.
PLACE 2.5'x5'x2.5' HANDHOLE

STA. 74+89'-46.5" LT.
90° BEND

75+04'
75+03.5'
2
212-36"
270
281
282
80'

(1) 2.5" HDPE
432F

MATCH TO STA. 79+00' BELOW RIGHT

MATCH TO STA. 74+50' SHEET 15 OF 19

79+00'
75+03.5'
4
410
411
396'

CLN (432F)
& (1) 1.25" INNERDUCT

STA. 75+03.5'-5.5" RT.
PULL THROUGH EXISTING
CENTURYLINK MANHOLE
Sta. 75+03.5'-1.5" RT.
J-Box

STA. 74+89'-3.5" RT.
90° BEND

75+03.5'
74+50'
1
410
411
54'

CLN (432F)
& (1) 1.25" INNERDUCT

Sta. 80+90'-59.5" Lt.
J-Box
Sta. 80+87'-55" Lt.
Traffic Signal
Sta. 80+67.5'-2.5" Lt.
J-Box
Sta. 80+66'-2.5" Lt.
J-Box
Sta. 80+64'-2.5" Lt.
J-Box
Sta. 80+57.5'-42" Lt.
FIELD BEND
Sta. 80+42'-46" Lt.
FIELD BEND
Sta. 80+37'-46.5" Lt.
PLACE 2.5'x5'x2.5' HANDHOLE
Sta. 80+32'-46.5" Lt.
90° BEND

SEE HANDHOLE
DETAIL SHEET 3

80+37'
80+82.5'
6
212-36"
270
281
282
105'

(1) 2.5" HDPE
432F

Sta. 82+74'-31.5" Lt.
Sewer Manhole

83+50'
80+37'
8
212-36"
270
281
282
314'

(2) 2" HDPE
432F

MATCH TO STA. 83+50' SHEET 15 OF 19

East
Oakley
Boulevard

South Maryland Parkway

60 30 0 60

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

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



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



CELL SITE: LSV CRYSTAL PALACE SC, HOWARD, &
SUNDERLAND SC, REV-09-12-19

CITY OF LAS VEGAS, NEVADA

CLARIFICATION NO.	QUANTITY
SHEET TOTAL	
2" HDPE CONDUIT:	640'
2.5" HDPE CONDUIT:	185'
4" HDPE CONDUIT:	-
2' x 3' x 2' HANDHOLE(S):	-
2.5' x 5' x 2.5' HANDHOLE(S):	2
4' x 4' x 4' MANHOLE(S):	-
MANHOLE(S):	-
AERIAL:	-
VZW CONDUIT:	-
3RD PARTY CONDUIT:	633'
TRENCH:	499'
TOTAL NEW UG FOOTAGE:	499'
TOTAL FOOTAGE:	1,132'

MCI
COMMUNICATIONS SERVICES, INC.

OUTSIDE PLANT CONSTRUCTION

HUB: LSV FOREMASTER - CELL SITE: LSV CRYSTAL PALACE SC,
HOWARD, & SUNDERLAND SC, REV-09-12-19

DATE: 9/12/2019

DRAWN BY: ROHNSON

REVISIONS

DATE	DESCRIPTION	INITIAL
9-12-19	ADD 'PROP. R/L DIMS.'	RJ

EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT,
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SCALE

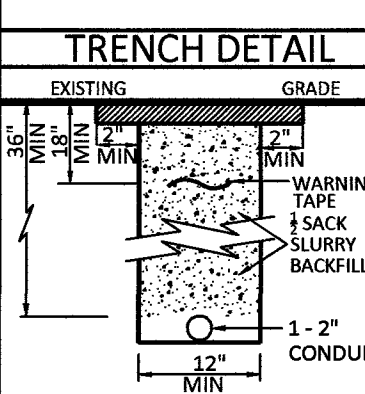
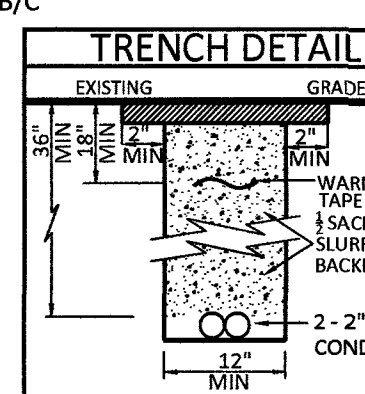
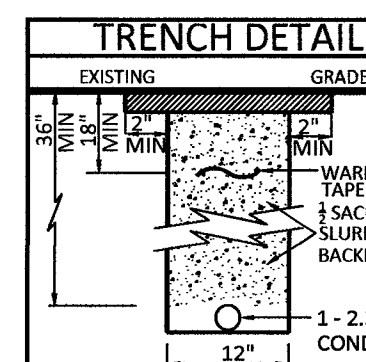
HORIZONTAL: 1"=30'

VERTICAL: NA

MP TO MP

SHEET 14 OF 19

FILE: LSV CRYSTAL PALACE SC, HOWARD, &
SUNDERLAND SC, REV-09-12-19



Replot

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.

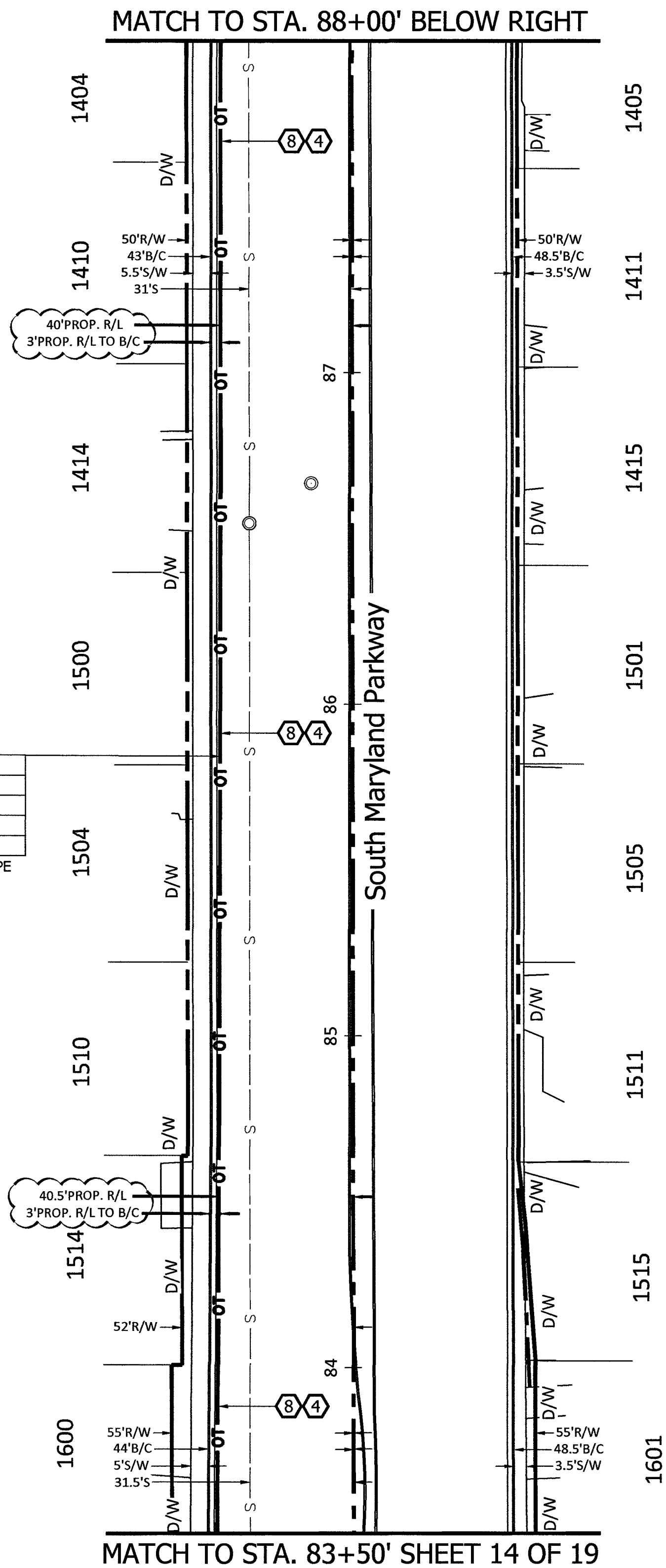
- 210 PLACE CONDUIT
- 212 PLACE HIGH DENSITY POLYETHYLENE (HDPE)
- 240 PLACE HANDHOLE
- 250 PLACE MANHOLE
- 270 REMOVE AND RESTORE ASPHALT
- 280 REMOVE AND RESTORE CONCRETE
- 281 REMOVE AND RESTORE SIDEWALK
- 282 REMOVE AND RESTORE CURBING
- 410 PULL CABLE
- 411 PULL THROUGH DUCT (INNERDUCT)
- 520 PLACE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

Sta. 86+66.5'-12.5'Lt.
Telco Manhole

Sta. 86+54.5'-31'Lt.
Sewer Manhole

88+00'
83+50'
1
212-36"
270
450'

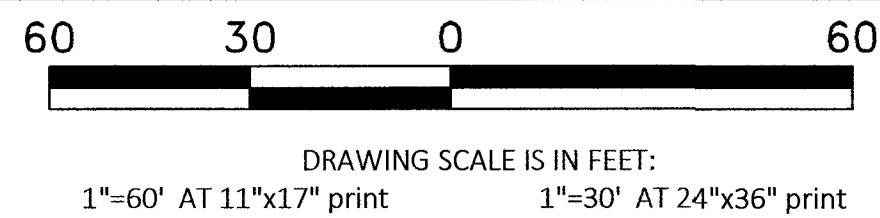
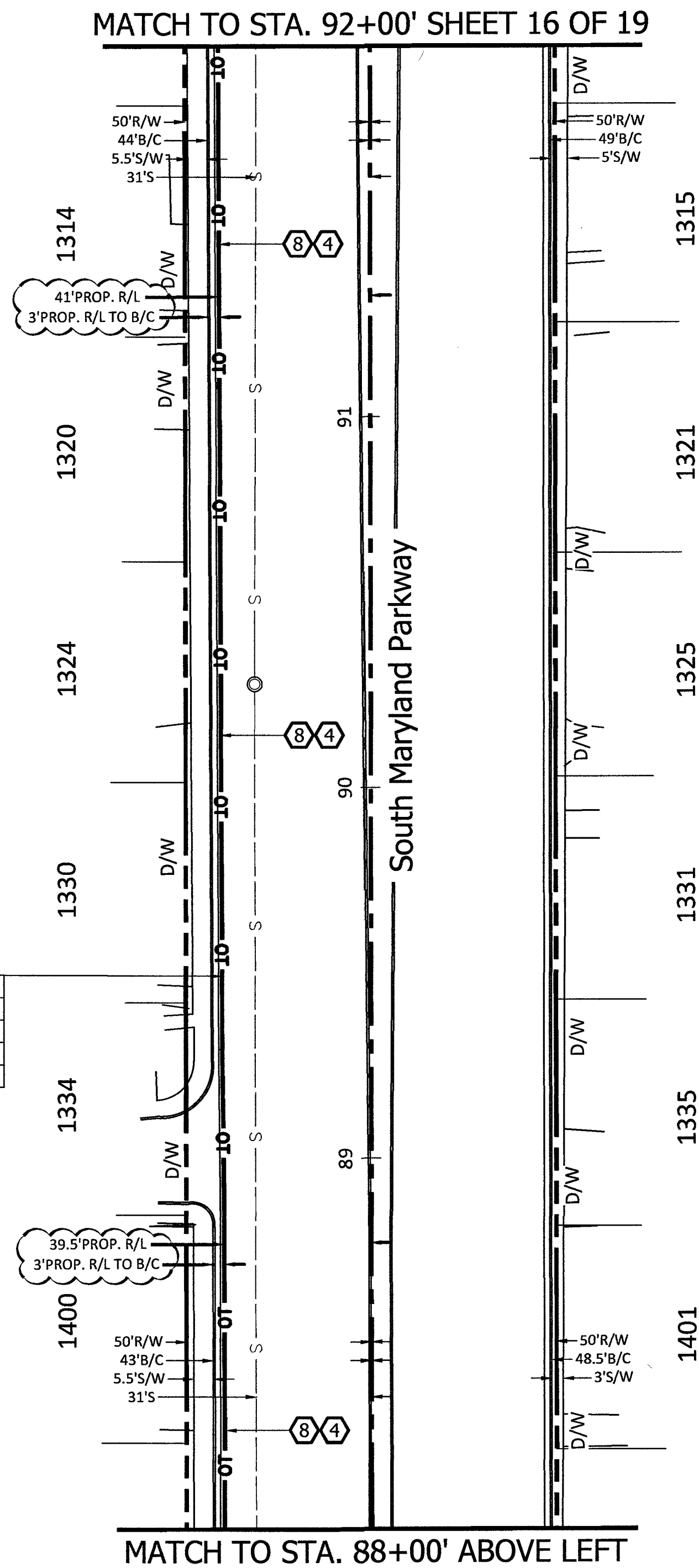
(2) 2"HDPE
432F



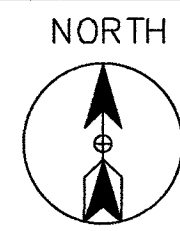
Sta. 90+28'-31.5'Lt.
Sewer Manhole

92+00'
88+00'
2
212-36"
270
400'

(2) 2"HDPE
432F



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



CELL SITE: LSV CRYSTAL PALACE SC, HOWARD, &
SUNDERLAND SC_REV-09-12-19

CITY OF LAS VEGAS, NEVADA

CLARIFICATION NO.	QUANTITY
SHEET TOTAL	
2" HDPE CONDUIT:	1,700'
2.5" HDPE CONDUIT:	-
4" HDPE CONDUIT:	-
2' x 3' x 2' HANDHOLE(S):	-
2.5' x 5' x 2.5' HANDHOLE(S):	-
4' x 4' x 4' MANHOLE(S):	-
MANHOLE(S):	-
AERIAL:	-
VZW CONDUIT:	-
3RD PARTY CONDUIT:	-
TRENCH:	850'
TOTAL NEW UG FOOTAGE:	850'
TOTAL FOOTAGE:	850'

MCI
COMMUNICATIONS SERVICES, INC.

OUTSIDE PLANT CONSTRUCTION

HUB: LSV FOREMASTER - CELL SITE: LSV CRYSTAL PALACE SC,
HOWARD, & SUNDERLAND SC_REV-09-12-19

DATE: 9/12/2019

DRAWN BY: RJOHNSON

REVISIONS

DATE	DESCRIPTION	INITIAL
9-12-19	ADD 'PROP. R/L DIMS.'	RJ
	pk 11 13 19	

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SCALE

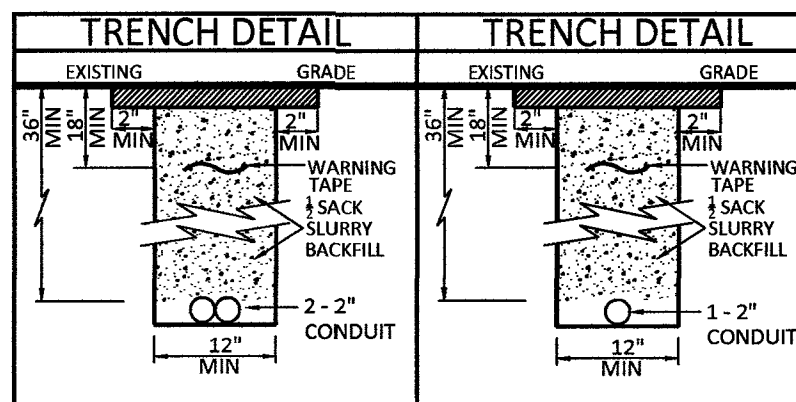
HORIZONTAL: 1"=30'

VERTICAL: NA

MP TO MP

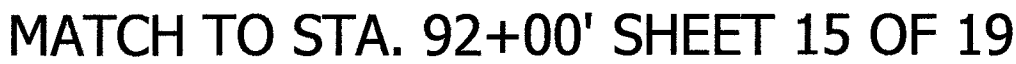
SHEET 15 OF 19

FILE: LSV CRYSTAL PALACE SC, HOWARD, &
SUNDERLAND SC_REV-09-12-19



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.

Sta. 94+86.5'-52.5'Lt.
Storm Drain Manhole
Sta. 94+86'-52.5'Lt.
Catch Basin Manhole
Sta. 94+77'-82.5'Lt.
Back Flow Preventer
Sta. 94+70'-90.5'Lt.
Water Meter
Sta. 94+61'-42.5'Lt.
TIE TO EXISTING
MCI HANDHOLE
Sta. 94+56.5'-43'Lt.
45° BEND
Sta. 94+49.5'-47'Lt.
J-Box
Sta. 94+49'-45'Lt.
Extent Vault
Sta. 94+45.5'-48.5'Lt.
J-Box
Sta. 94+44.5'-44.5'Lt.
Traffic Signal
Sta. 94+34.5'-36.5'Lt.
45° BEND
Sta. 94+15.5'-26.5'Lt.
Sewer Manhole

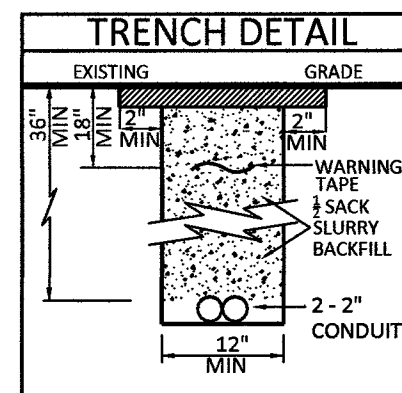


CLARIFICATION NO.	QUANTITY
SHEET TOTAL	
2" HDPE CONDUIT:	488'
2.5" HDPE CONDUIT:	-
4" HDPE CONDUIT:	-
2' x 3' x 2' HANDHOLE(S):	-
2.5' x 5' x 2.5' HANDHOLE(S):	-
4' x 4' x 4' MANHOLE(S):	-
MANHOLE(S):	-
AERIAL:	-
VZW CONDUIT:	-
3RD PARTY CONDUIT:	-
TRENCH:	244'
TOTAL NEW UG FOOTAGE:	244'
TOTAL FOOTAGE:	244'

HUB: LSV FOREMASTER - CELL SITE: LSV CRYSTAL PALACE SC,
HOWARD, & SUNDERLAND SC_REV-09-12-19

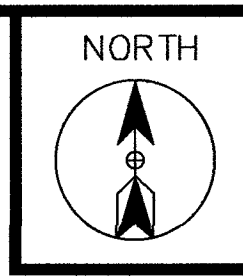
DATE	DESCRIPTION	INITIAL
9-12-19	ADD 'PROP. R/L DIMS.'	RJ
	<i>RK 11 13 19</i>	

SHEET 16 OF 19
FILE: LSV CRYSTAL PALACE SC, HOWARD, &
SUNDERLAND SC. REV-09-12-19



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

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



CELL SITE: LSV CRYSTAL PALACE SC, HOWARD, &
SUNDERLAND SC

CITY OF LAS VEGAS, NEVADA

CLARIFICATION NO.	QUANTITY
-------------------	----------

FIBER TOTALS

FIBER SIZE/LENGTH:	864F/1,153'
--------------------	-------------

FIBER SIZE/LENGTH:	72F/1,714'
--------------------	------------

MCI
COMMUNICATIONS SERVICES, INC.

OUTSIDE PLANT CONSTRUCTION

HUB: LSV FOREMASTER - CELL SITE: LSV CRYSTAL PALACE SC,
HOWARD, & SUNDERLAND SC

DATE: 4/17/2019

DRAWN BY: CMENDOZA

REVISIONS

[illegible]

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SCALE

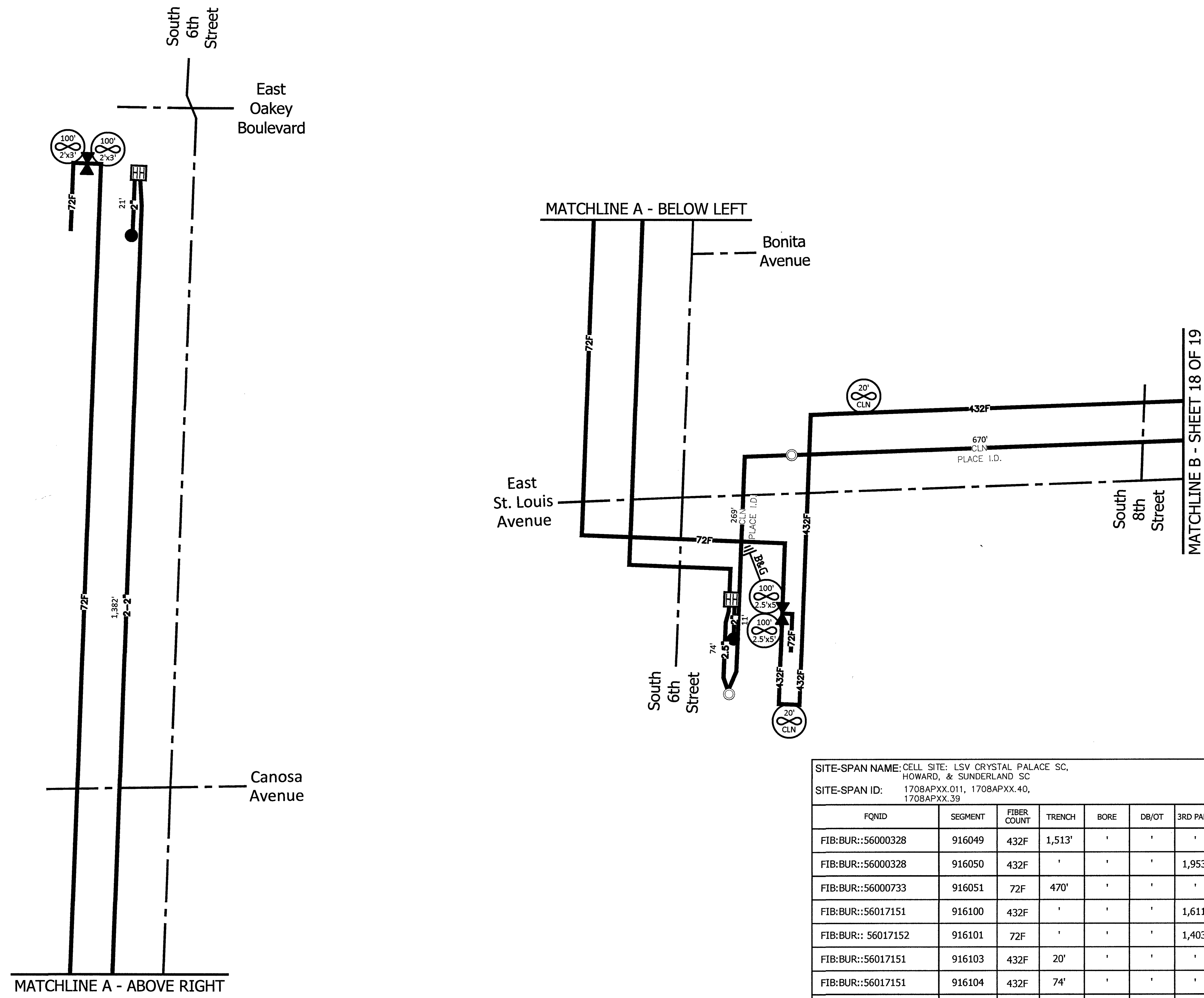
HORIZONTAL: 1"=30'

VERTICAL:	NA
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MP _____ TO MP _____

SHEET 17 OF 19

FILE: LSV CRYSTAL PALACE SC,
HOWARD, & SUNDERLAND SC



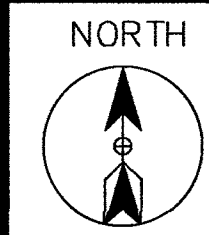
SITE-SPAN NAME: CELL SITE: LSV CRYSTAL PALACE SC, HOWARD, & SUNDERLAND SC									
SITE-SPAN ID: 1708APXX.011, 1708APXX.40, 1708APXX.39									
FQND	SEGMENT	FIBER COUNT	TRENCH	BORE	DB/OT	3RD PARTY	VZ OWNED	AERIAL	TOTAL
FIB:BUR::56000328	916049	432F	1,513'	'	'	'	'	'	1,513'
FIB:BUR::56000328	916050	432F	'	'	'	1,953'	'	'	1,953'
FIB:BUR::56000733	916051	72F	470'	'	'	'	'	'	470'
FIB:BUR::56017151	916100	432F	'	'	'	1,611'	'	'	1,611'
FIB:BUR:: 56017152	916101	72F	'	'	'	1,403'	'	'	1,403'
FIB:BUR::56017151	916103	432F	20'	'	'	'	'	'	20'
FIB:BUR::56017151	916104	432F	74'	'	'	'	'	'	74'
FIB:BUR::56017151	916158	432F	615'	'	'	'	'	'	615'
FIB:BUR::56000328	916159	432F	80'	'	'	'	'	'	80'
FIB:BUR::56000312	916160	72F	11'	'	'	'	'	'	11'

M:\VERIZON ONEFIBER\LAS VEGAS\LSV FOREMASTER\LSV CRYSTAL PALACE\CONSTRUCTION DRAWINGS\FINALIZED

ROUTE SCHEMATIC

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

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



CELL SITE: LSV CRYSTAL PALACE SC, HOWARD, &
SUNDERLAND SC

CITY OF LAS VEGAS, NEVADA

CLARIFICATION NO.	QUANTITY
-------------------	----------

FIBER TOTALS	
--------------	--

FIBER SIZE/LENGTH:	432F/2,696'
--------------------	-------------

FIBER SIZE/LENGTH:	72F/770'
--------------------	----------

MCI
COMMUNICATIONS SERVICES, INC.

OUTSIDE PLANT CONSTRUCTION

HUB: LSV FOREMASTER - CELL SITE: LSV CRYSTAL PALACE SC,
HOWARD, & SUNDERLAND SC

DATE: 4/17/2019

DRAWN BY: CMENDOZA

REVISIONS

[illegible]

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SCALE

HORIZONTAL: 1"=30'

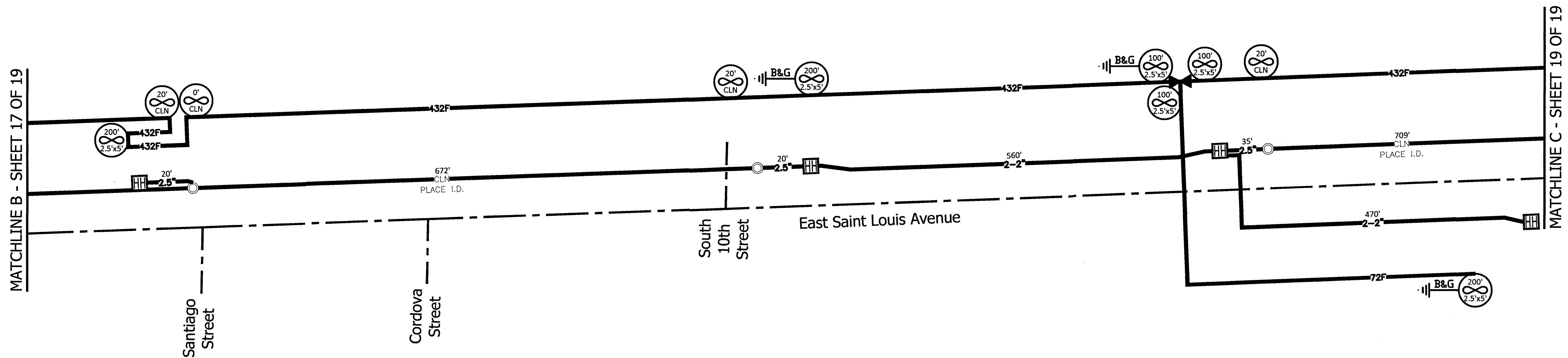
VERTICAL:	NA
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MP	TO MP
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SHEET 18 OF 19

FILE: LSV CRYSTAL PALACE SC,
HOWARD, & SUNDERLAND SC

04-17-19

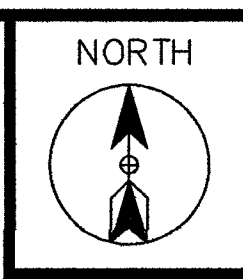


M:\VERIZON ONE\FIBER\LAS VEGAS\LSV FOREMASTER\LSV CRYSTAL PALACE\CONSTRUCTION DRAWINGS\FINALIZED

ROUTE SCHEMATIC

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

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



PROJECT: 916048, 916050, 916051,
916100, 916101, 916103,
916104, 916158, 916159,
916160
CELL SITE: LSV HOWARD, LSV SUNDERLAND SC,
LSV CRYSTAL PALACE SC
CITY OF LAS VEGAS, NEVADA

CLARIFICATION NO. QUANTITY

FIBER TOTALS

FIBER SIZE/LENGTH: 432F/3,267'

MCI
COMMUNICATIONS SERVICES, INC.

OUTSIDE PLANT CONSTRUCTION

TITLE: CELL SITE: LSV HOWARD, LSV
SUNDERLAND SC, LSV CRYSTAL PALACE
SC

DATE: 10/4/2018

DRAWN BY: JJAMES

REVISIONS

DATE	INITIAL

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

MP TO MP

SHEET 19 OF 19

LSV CRYSTAL PALACE SC,
FILE: HOWARD, & SUNDERLAND SC

