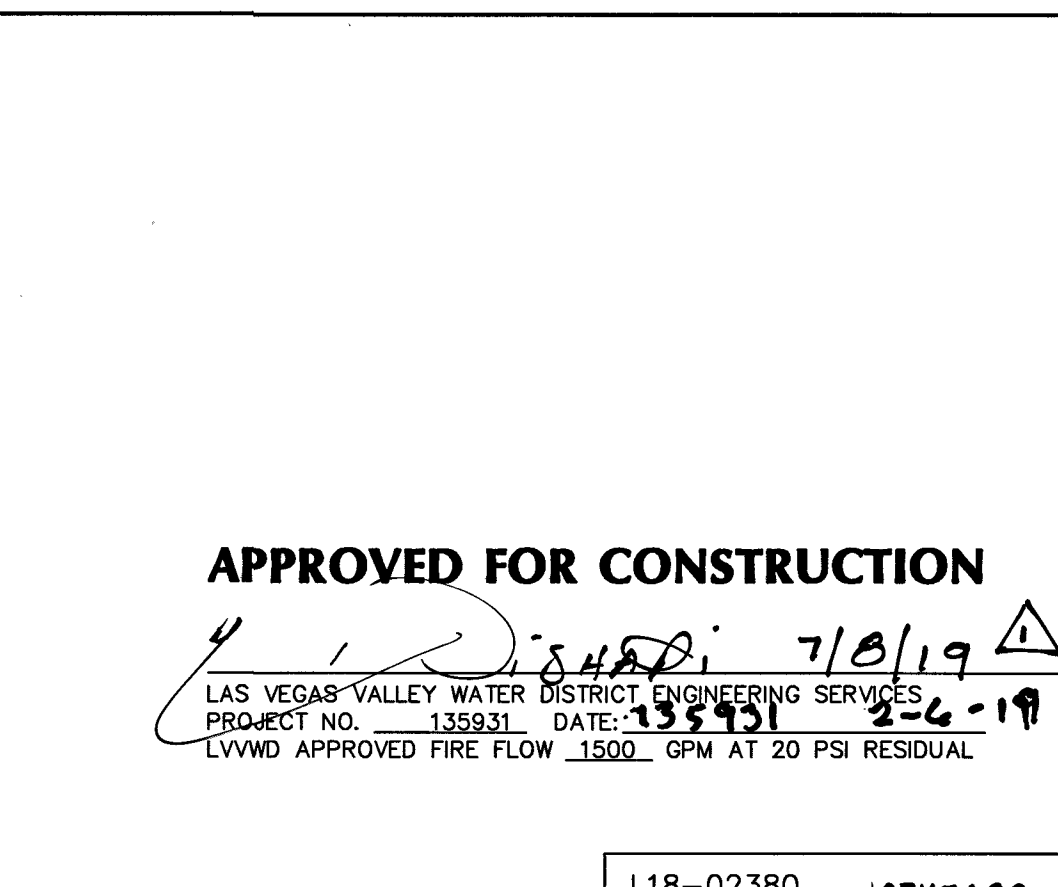
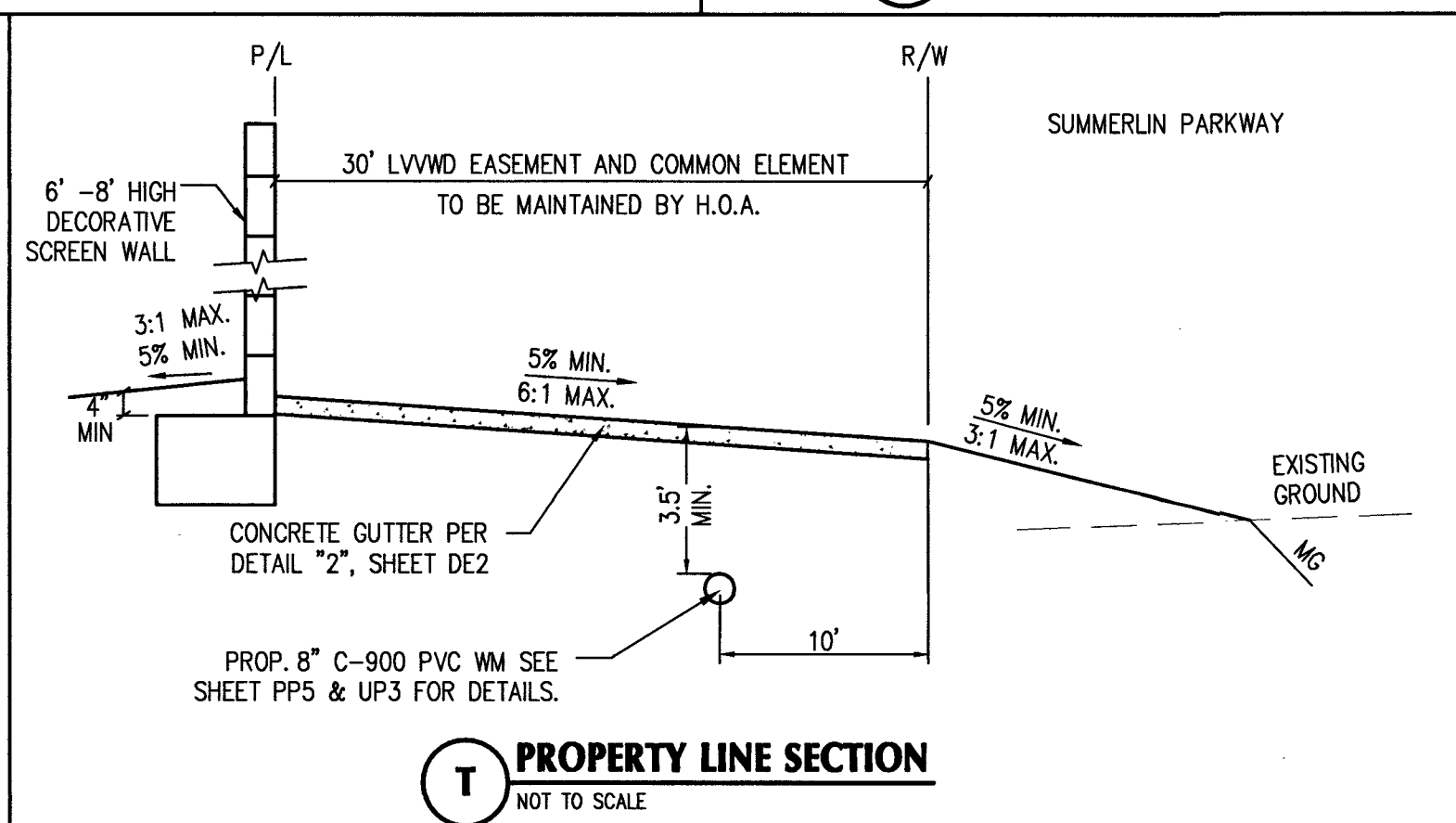
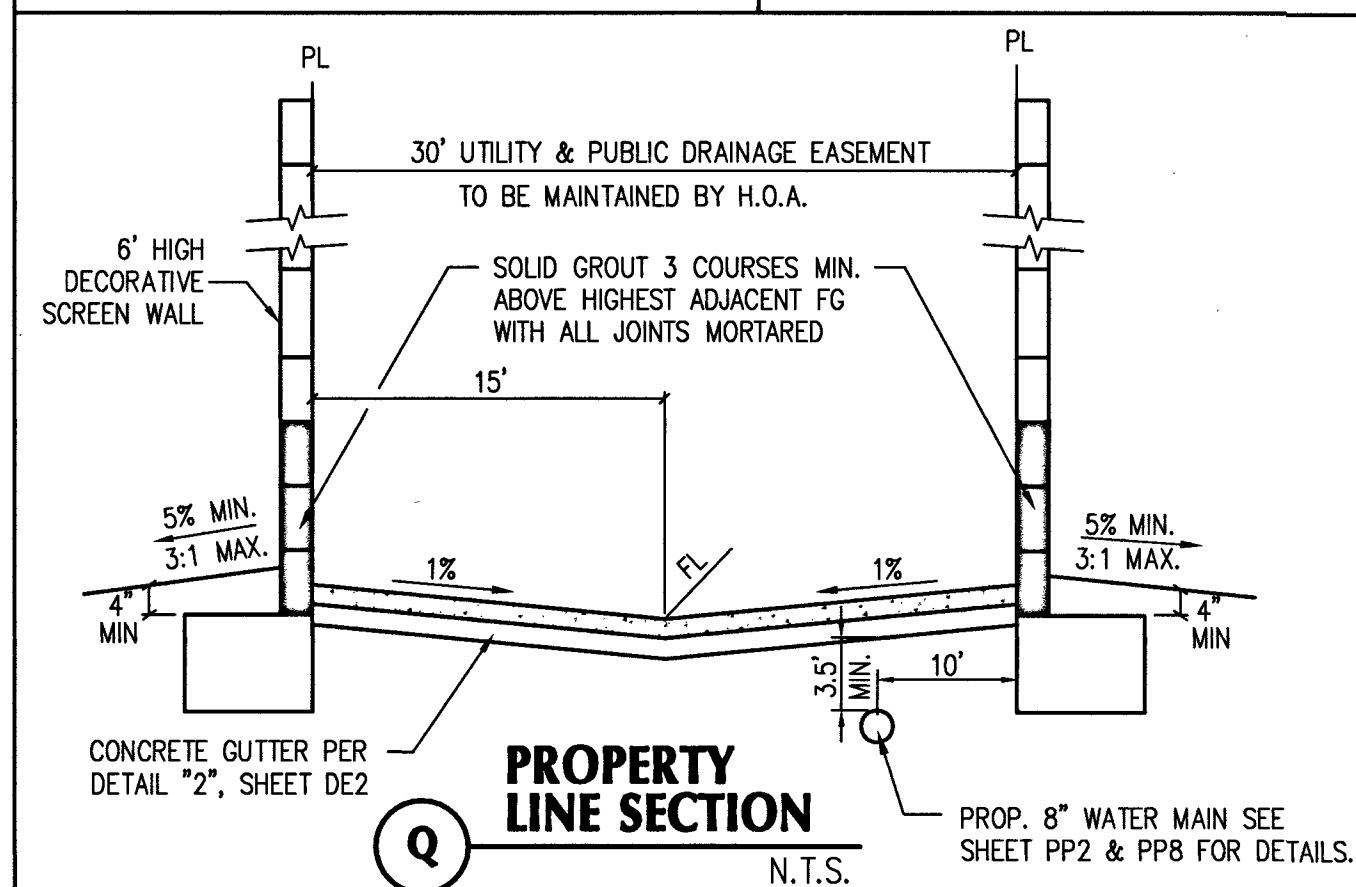
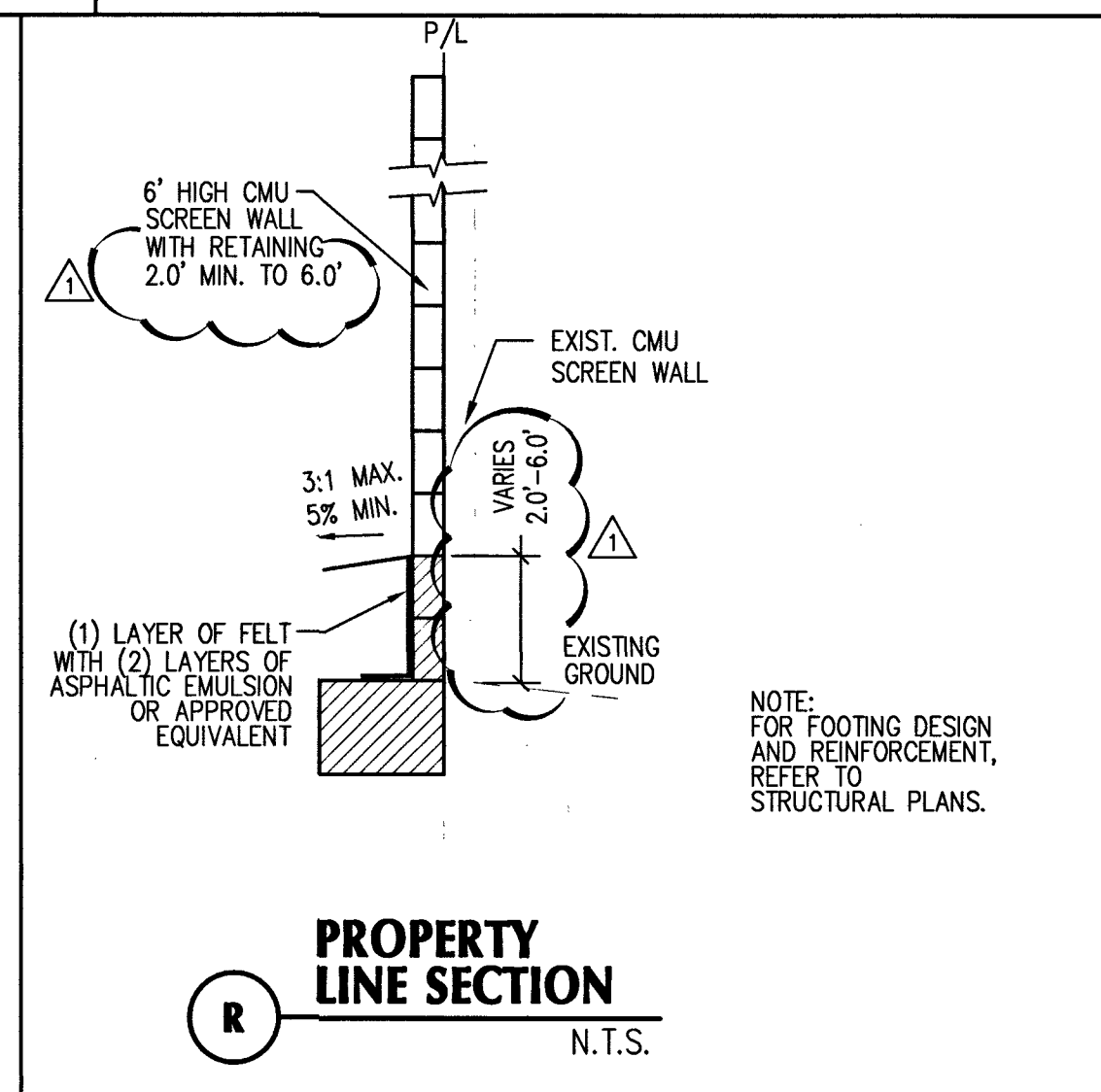
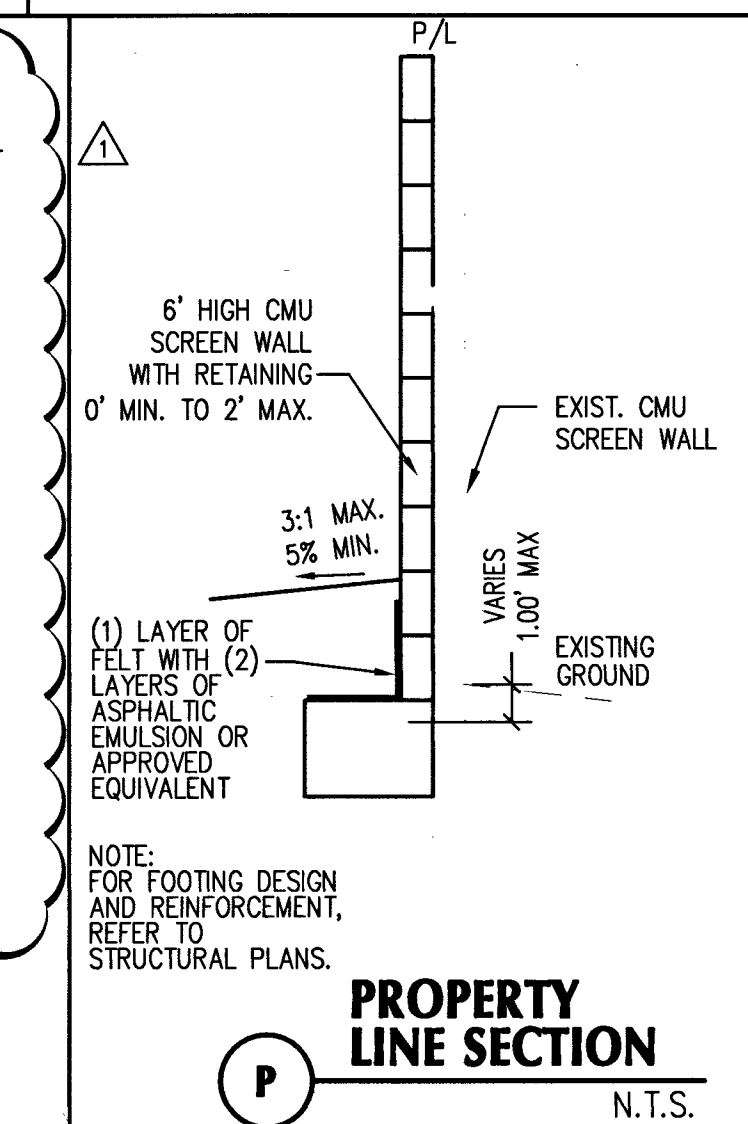
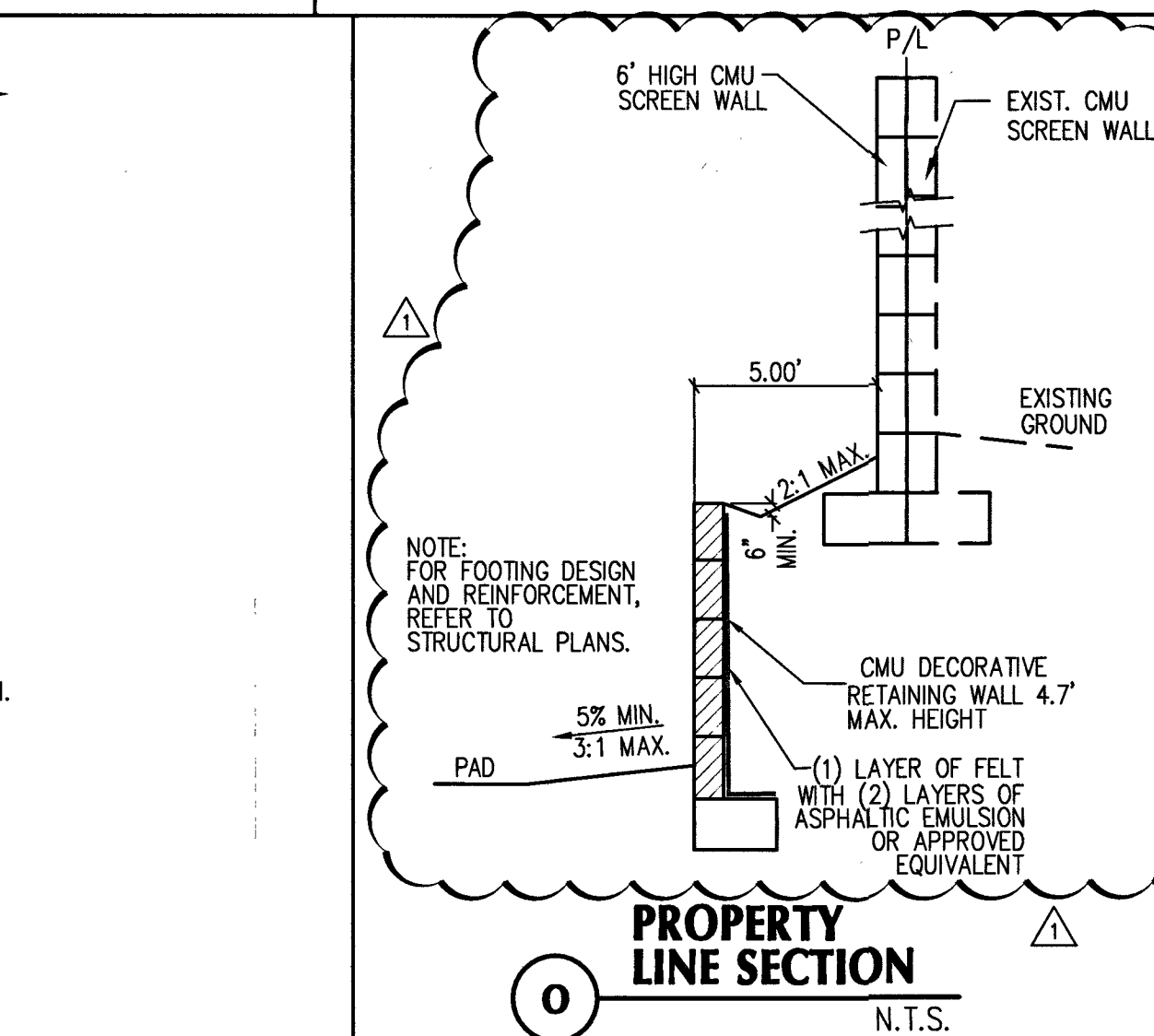
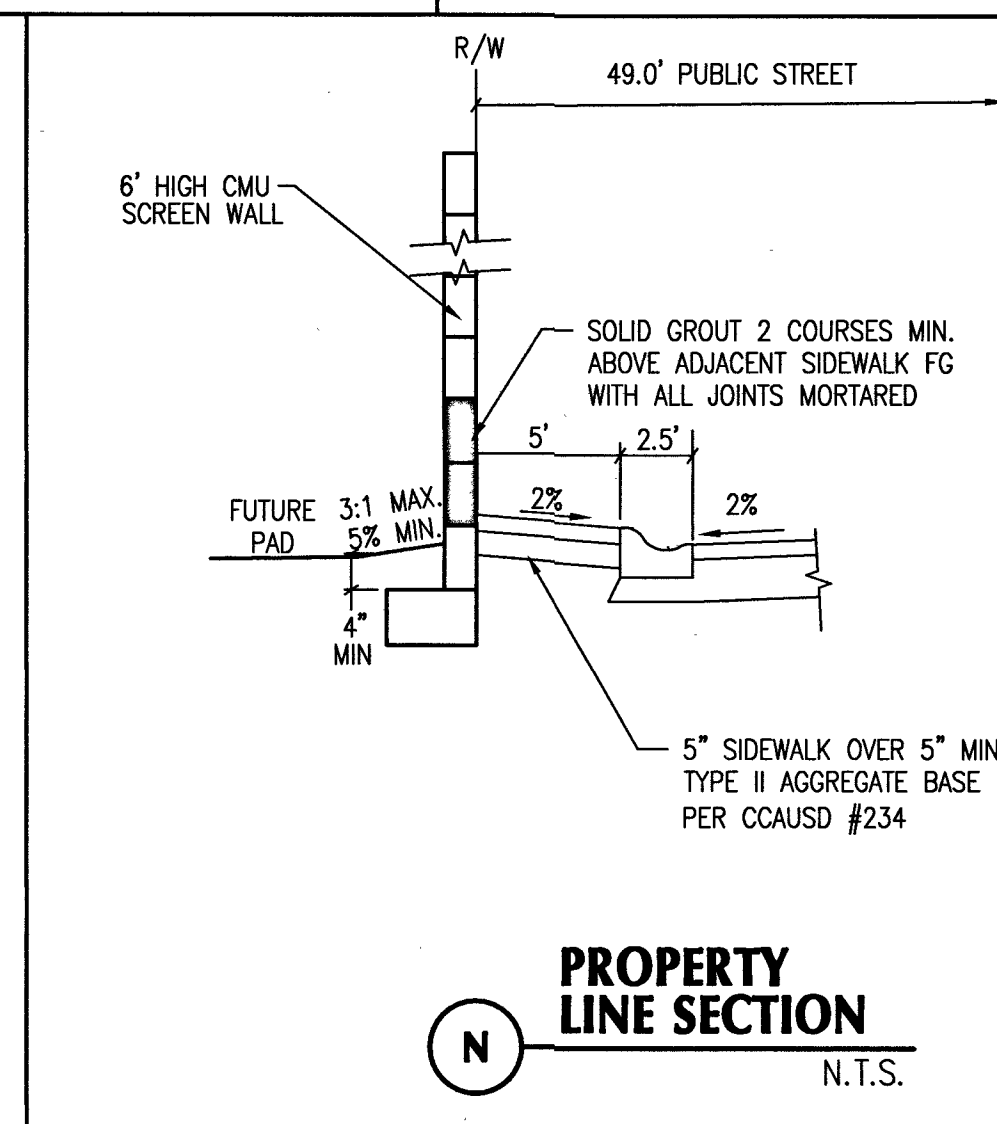
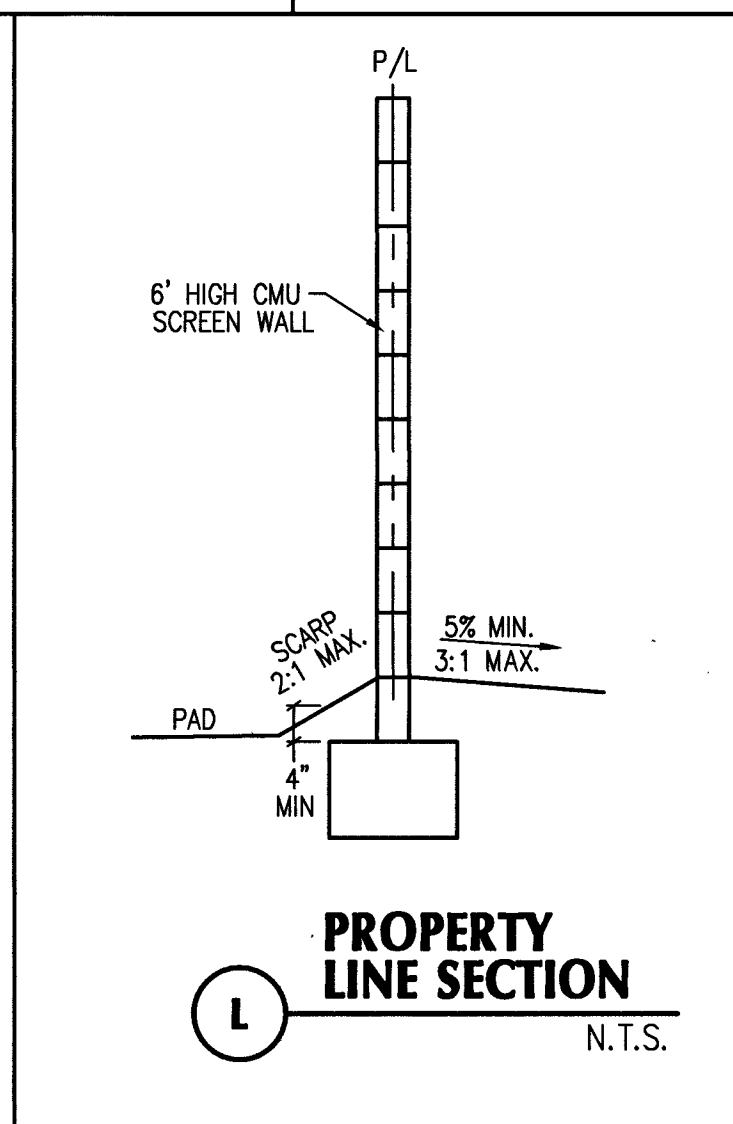
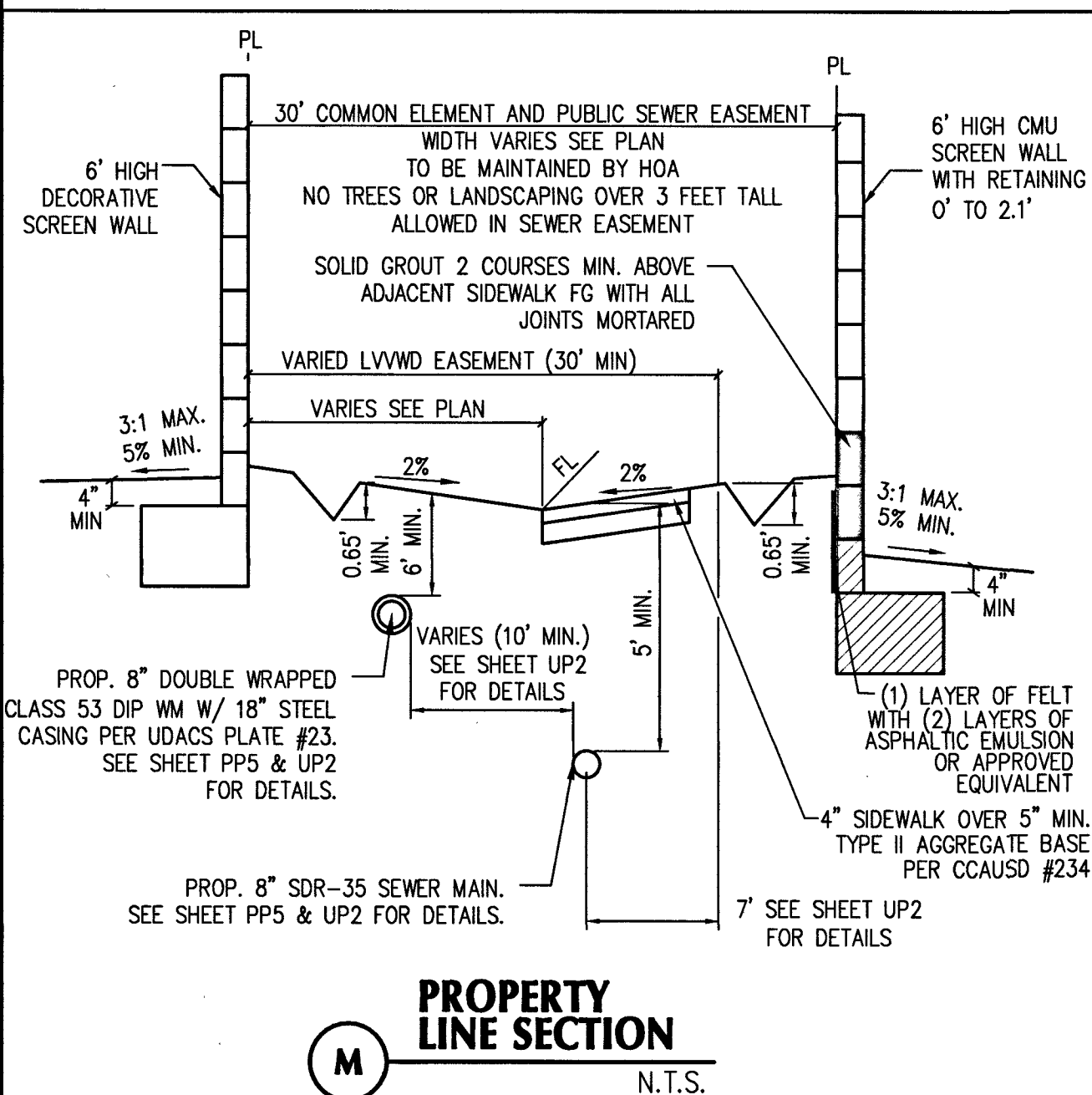
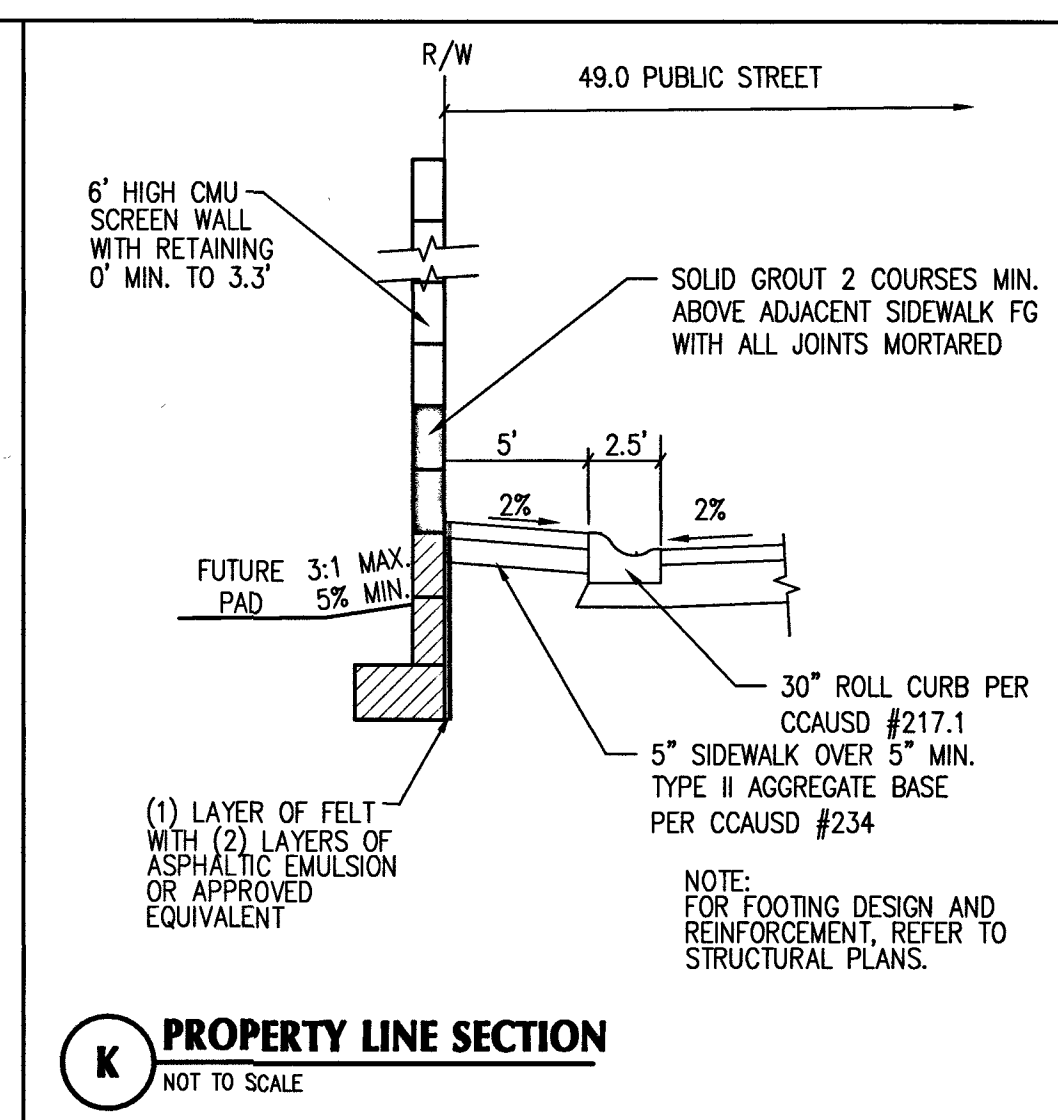
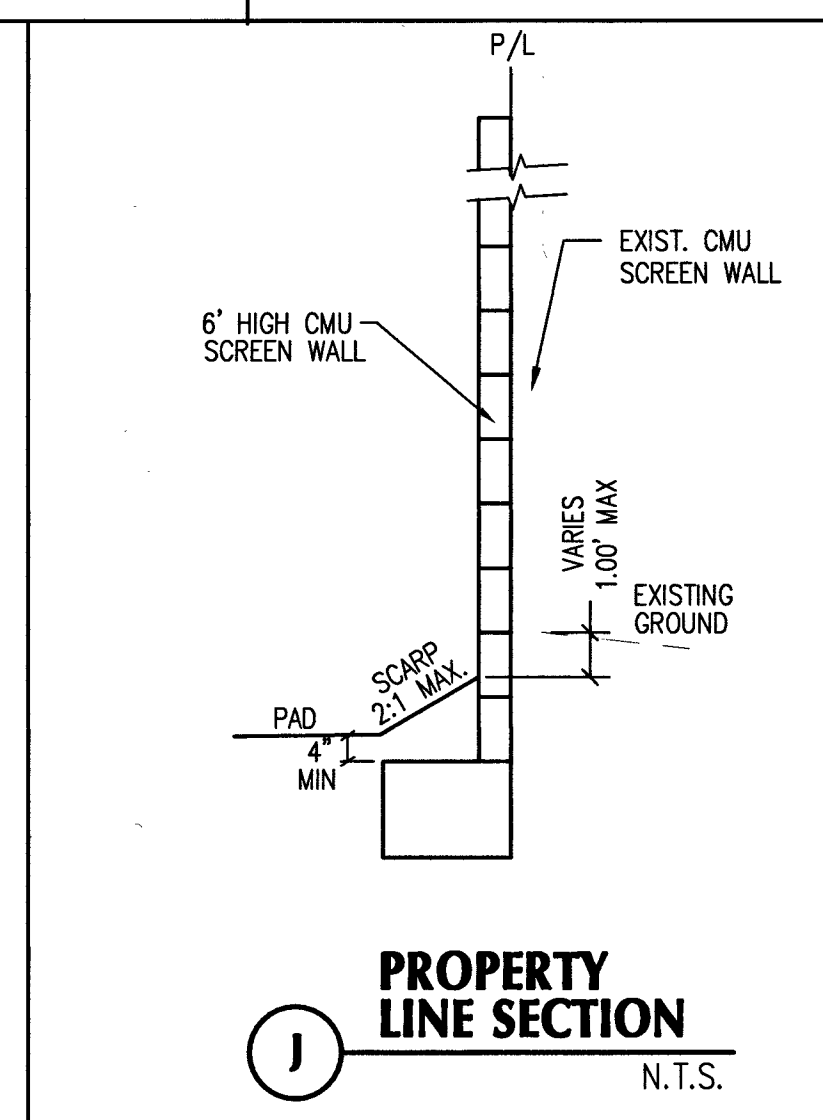
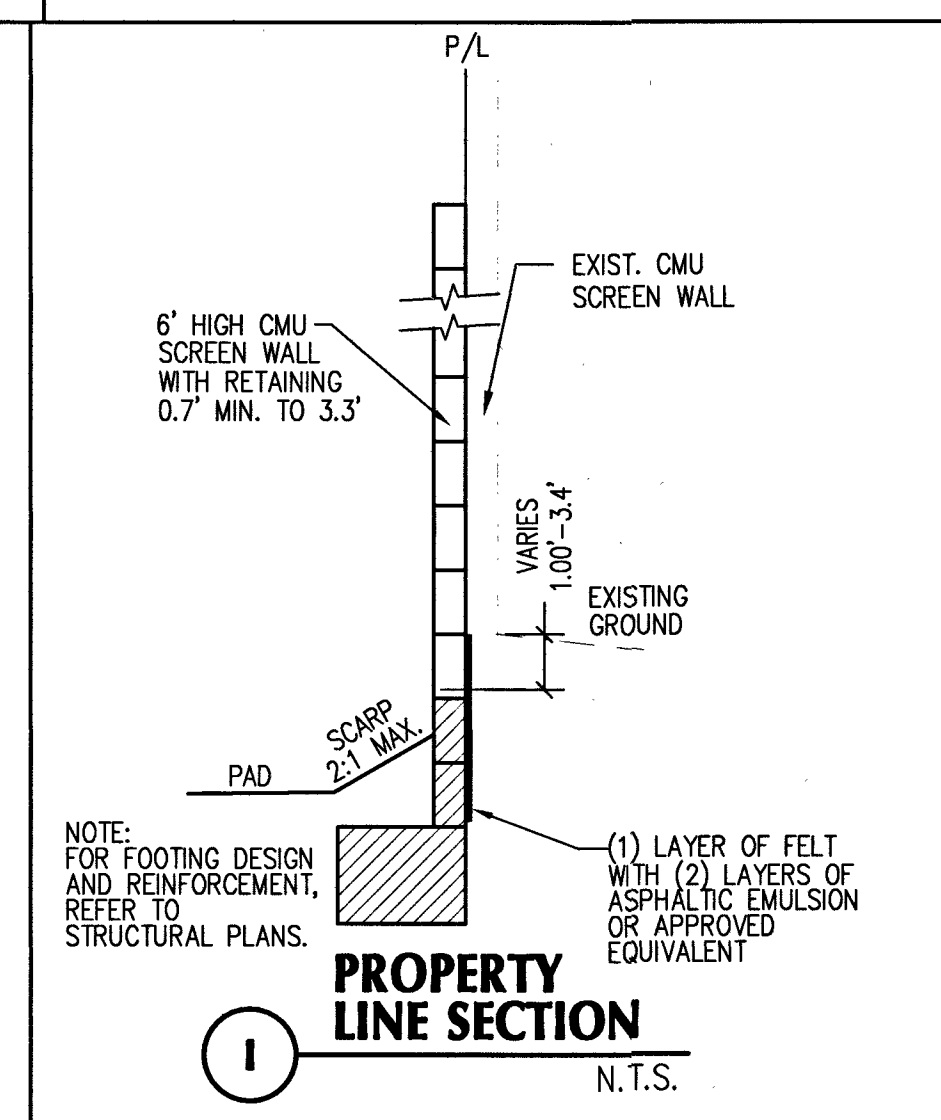
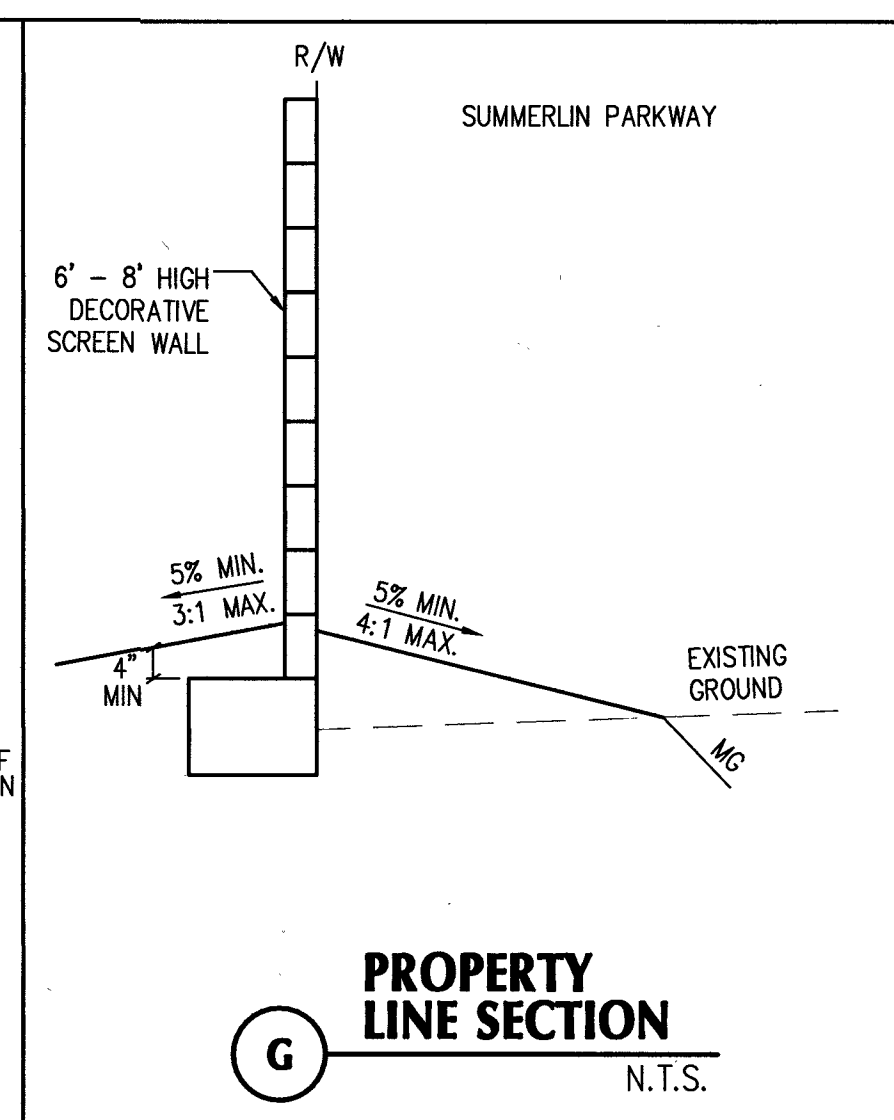
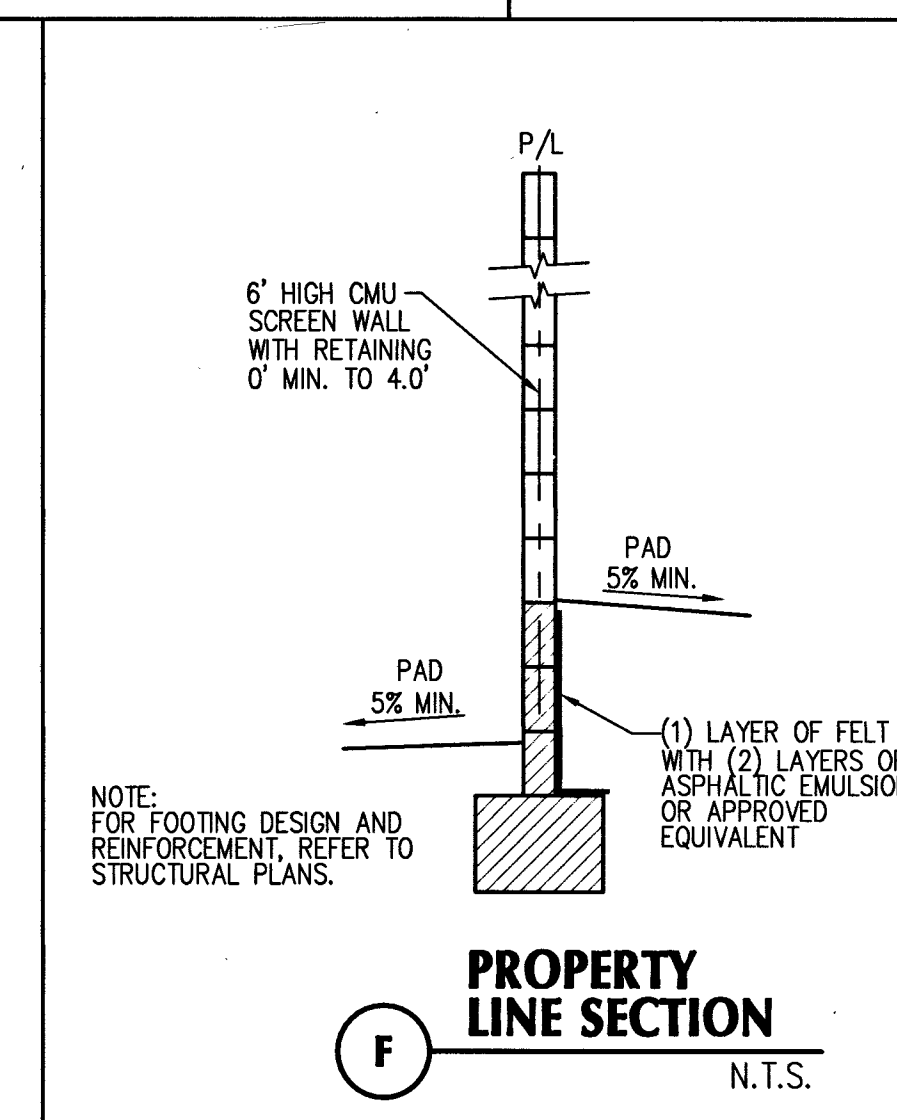
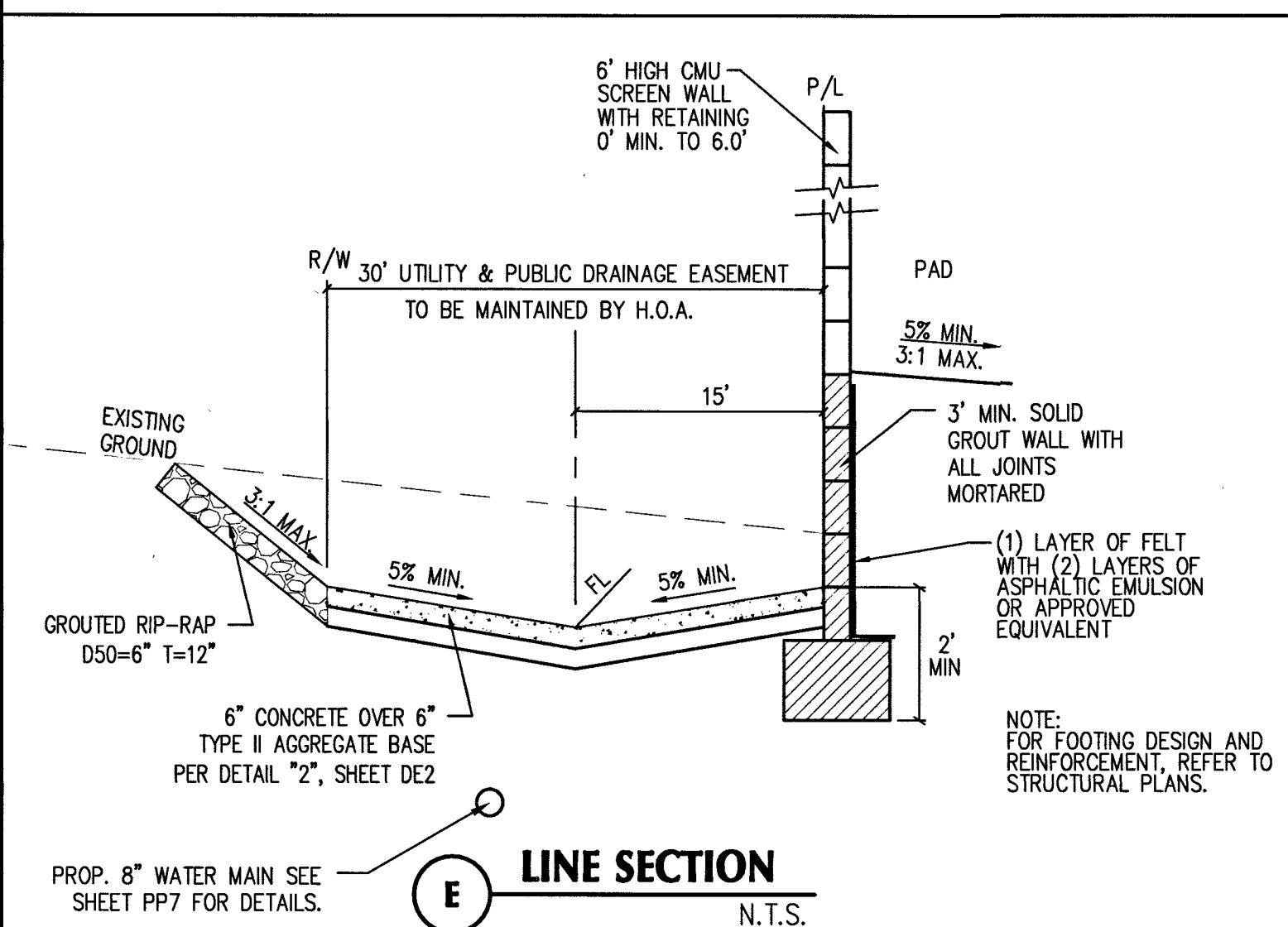
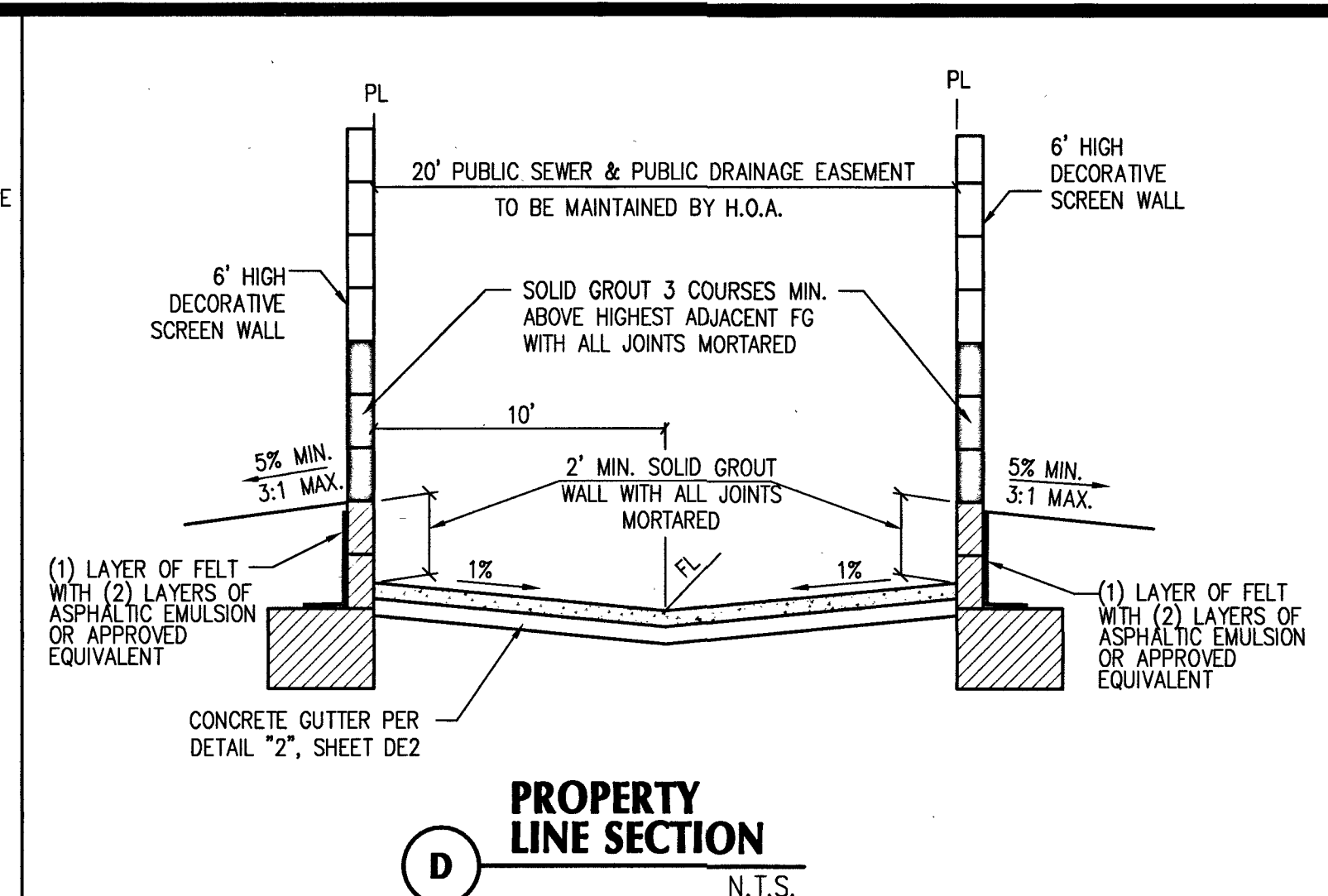
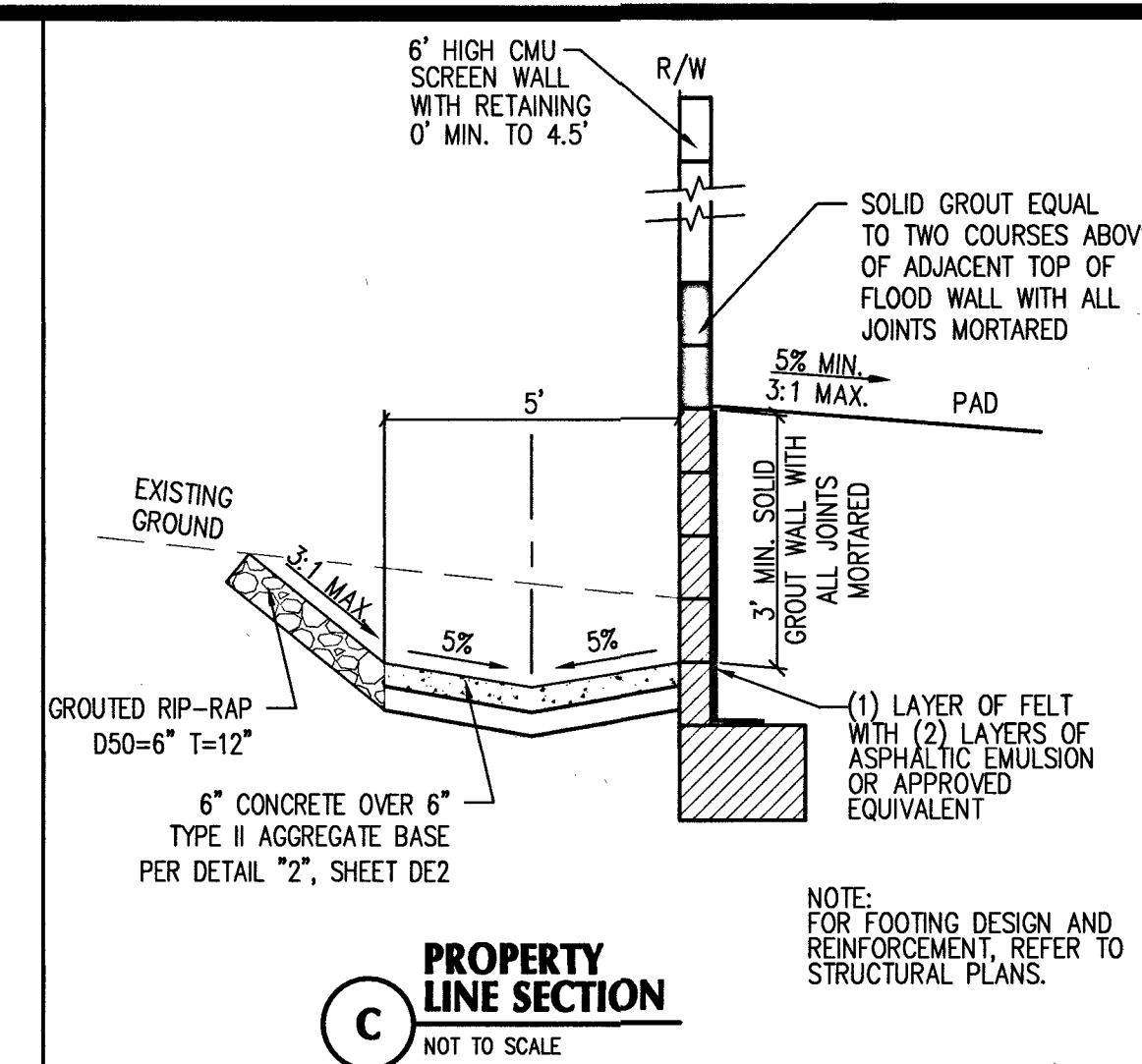
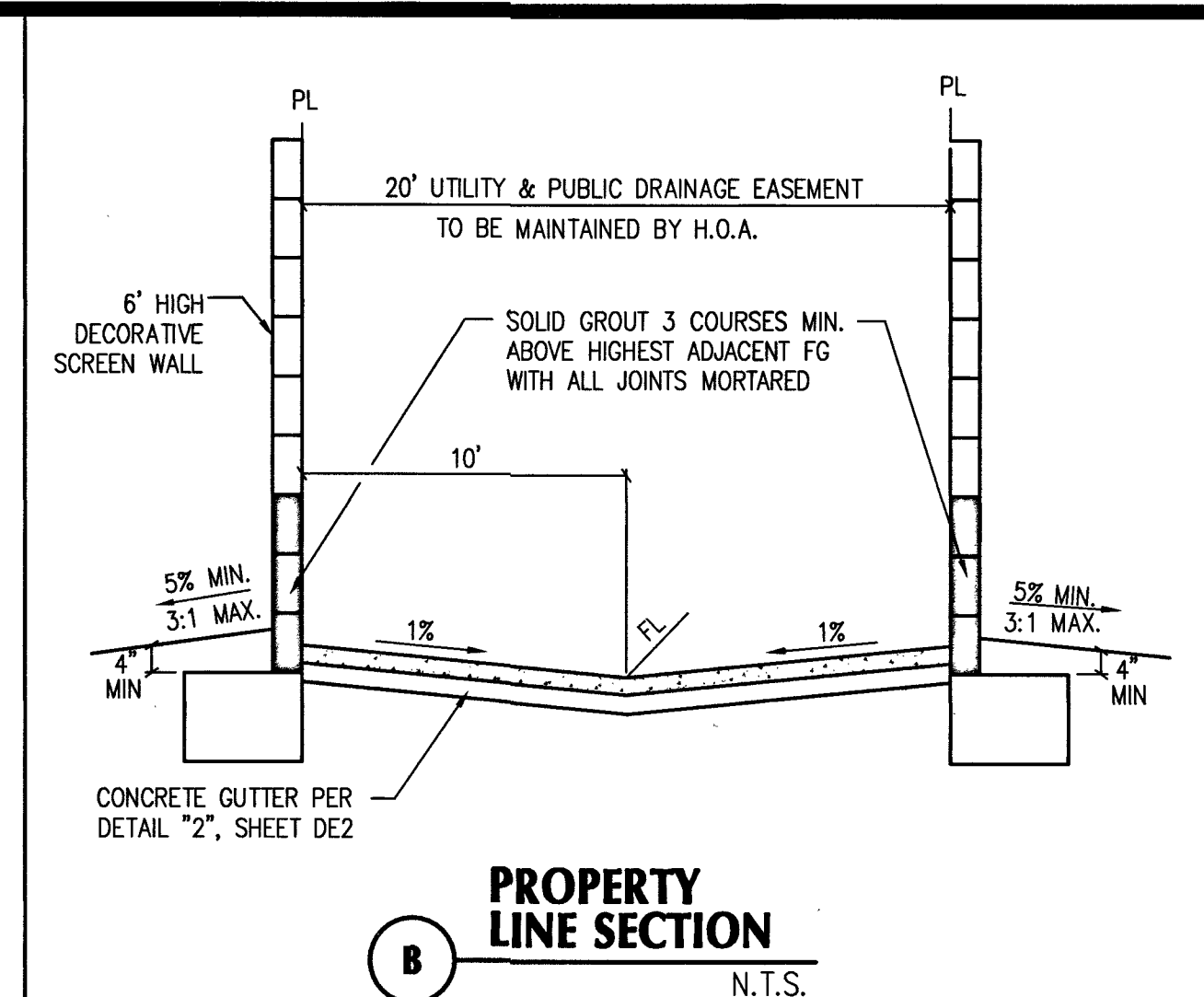
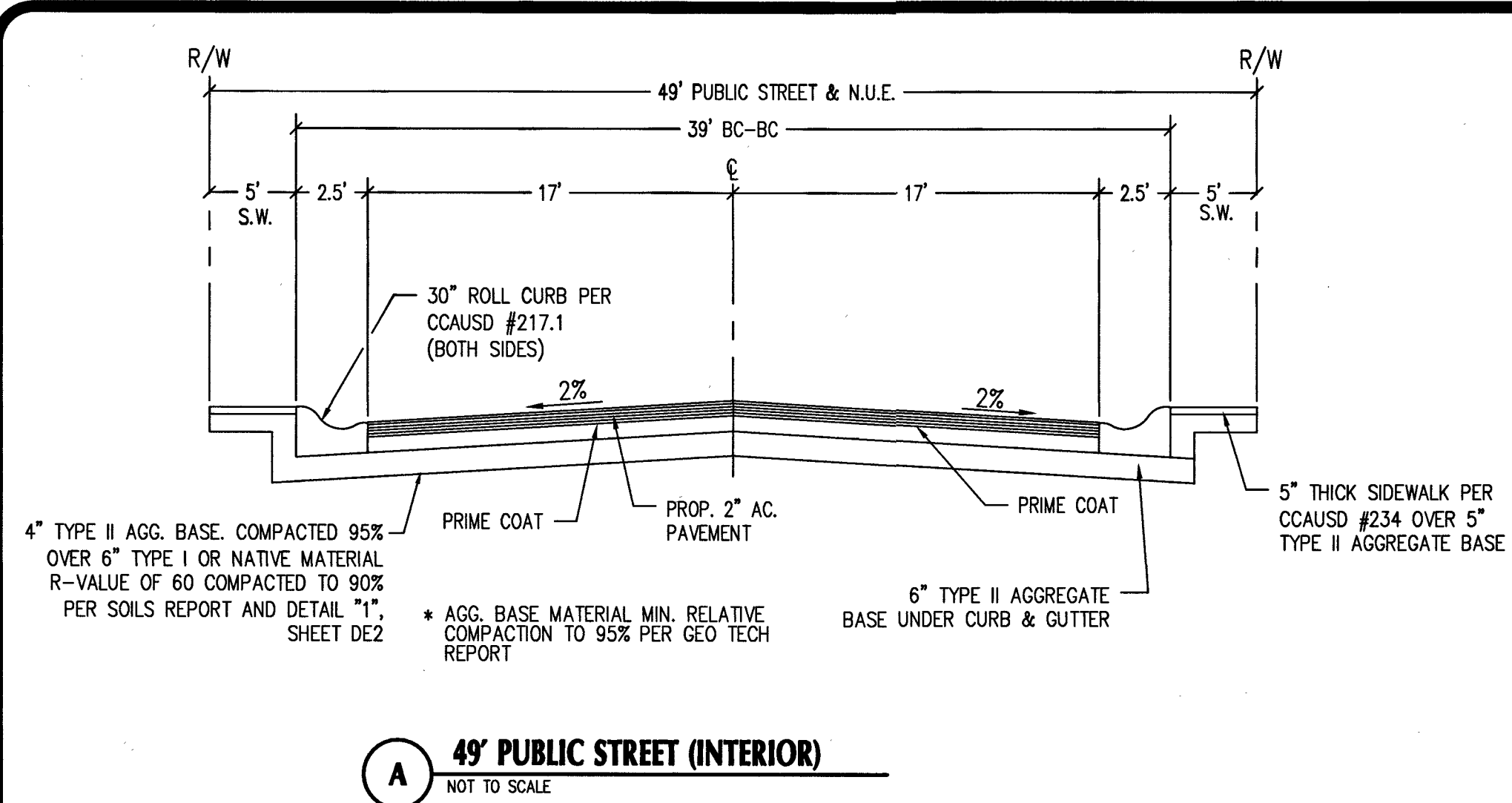




GRADING DETAILS 1

BLM 33
BY D.R. HORTON

ADVANTAGE CIVIL DESIGN GROUP, LLP
2920 N. GREEN VALLEY PKWY, BLDG. 4 STE. # 422
HENDERSON, NEVADA 89014

CIVIL ENGINEERING CONSULTING

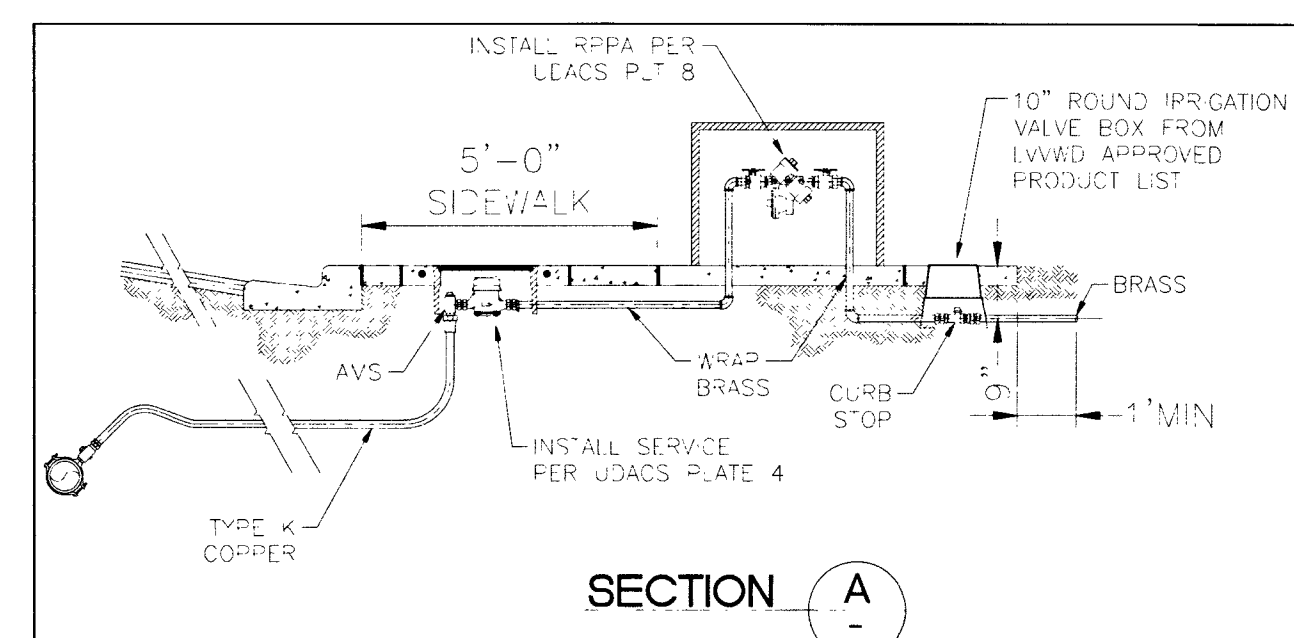
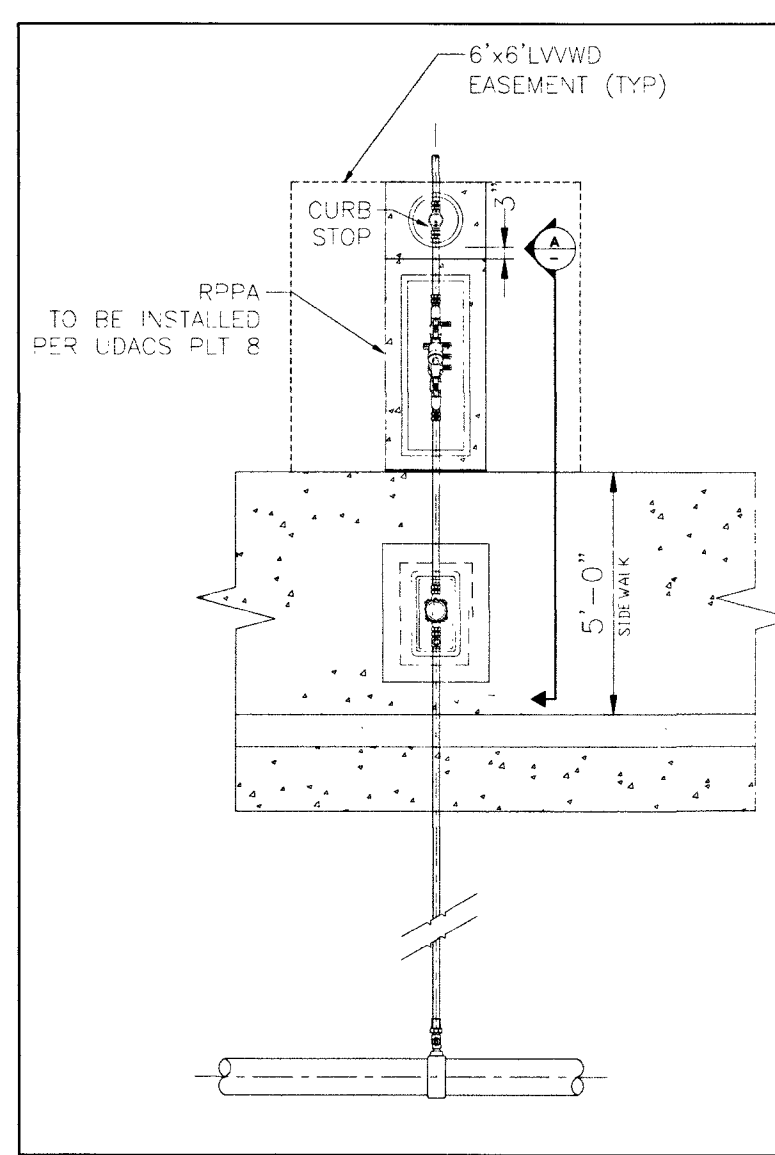
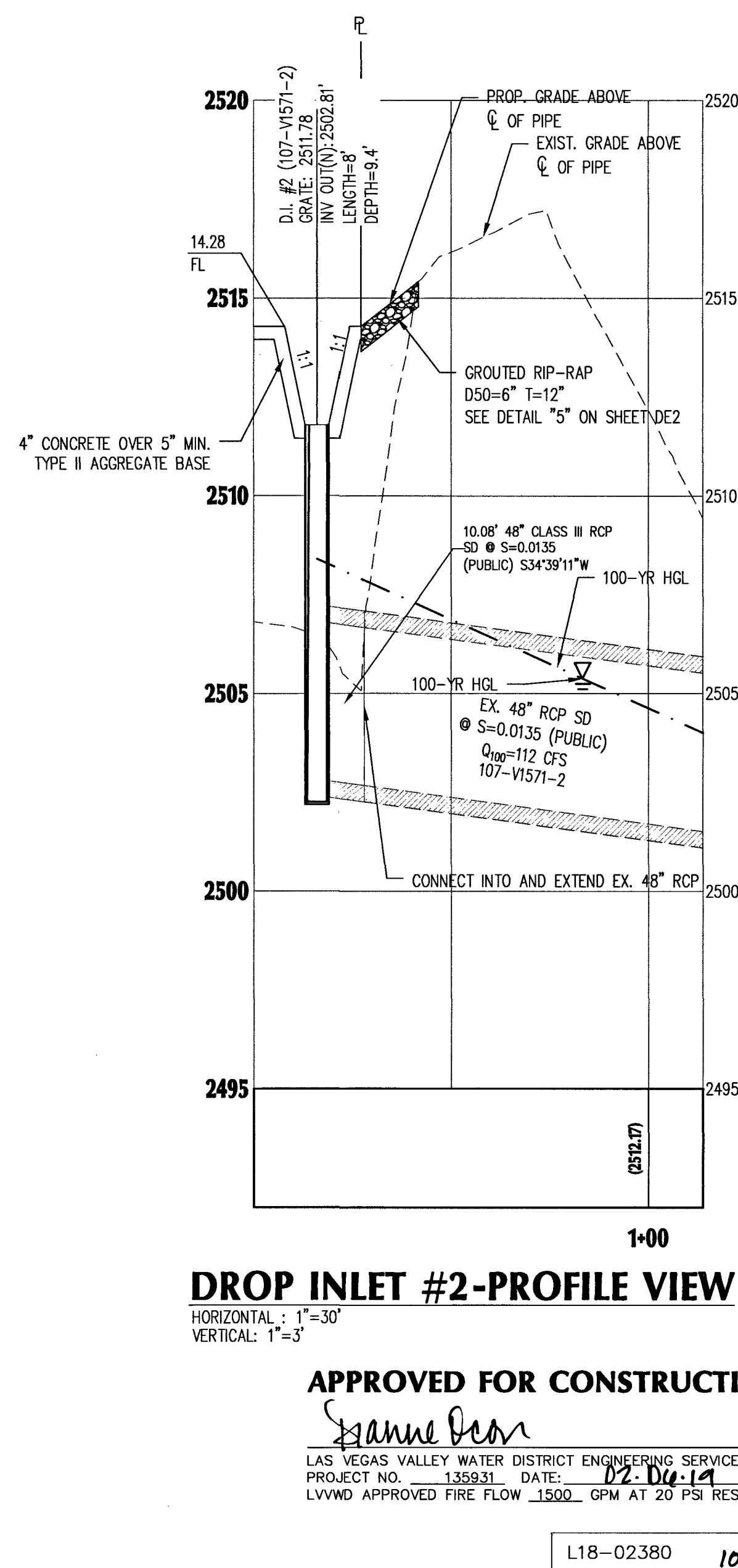
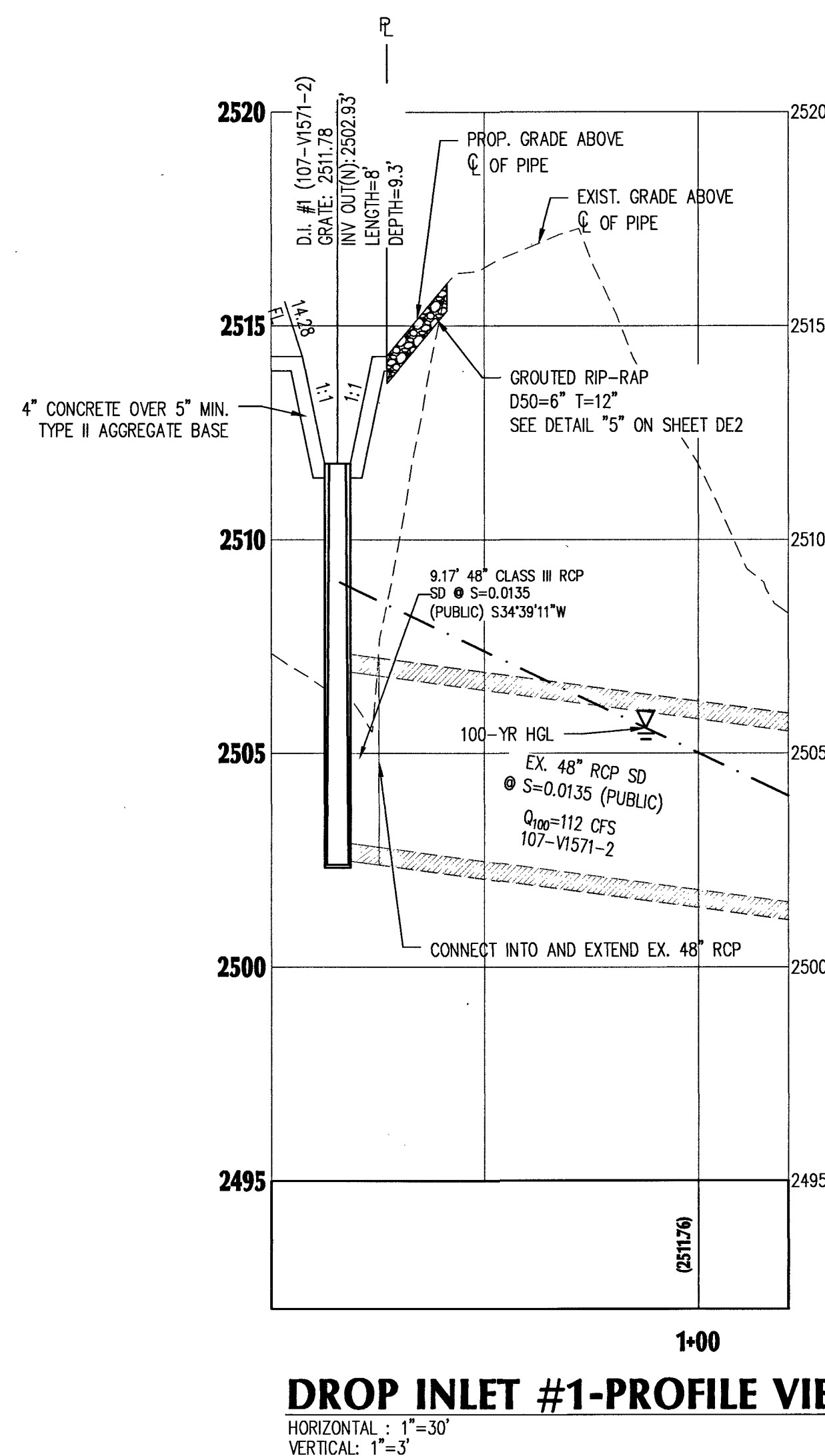
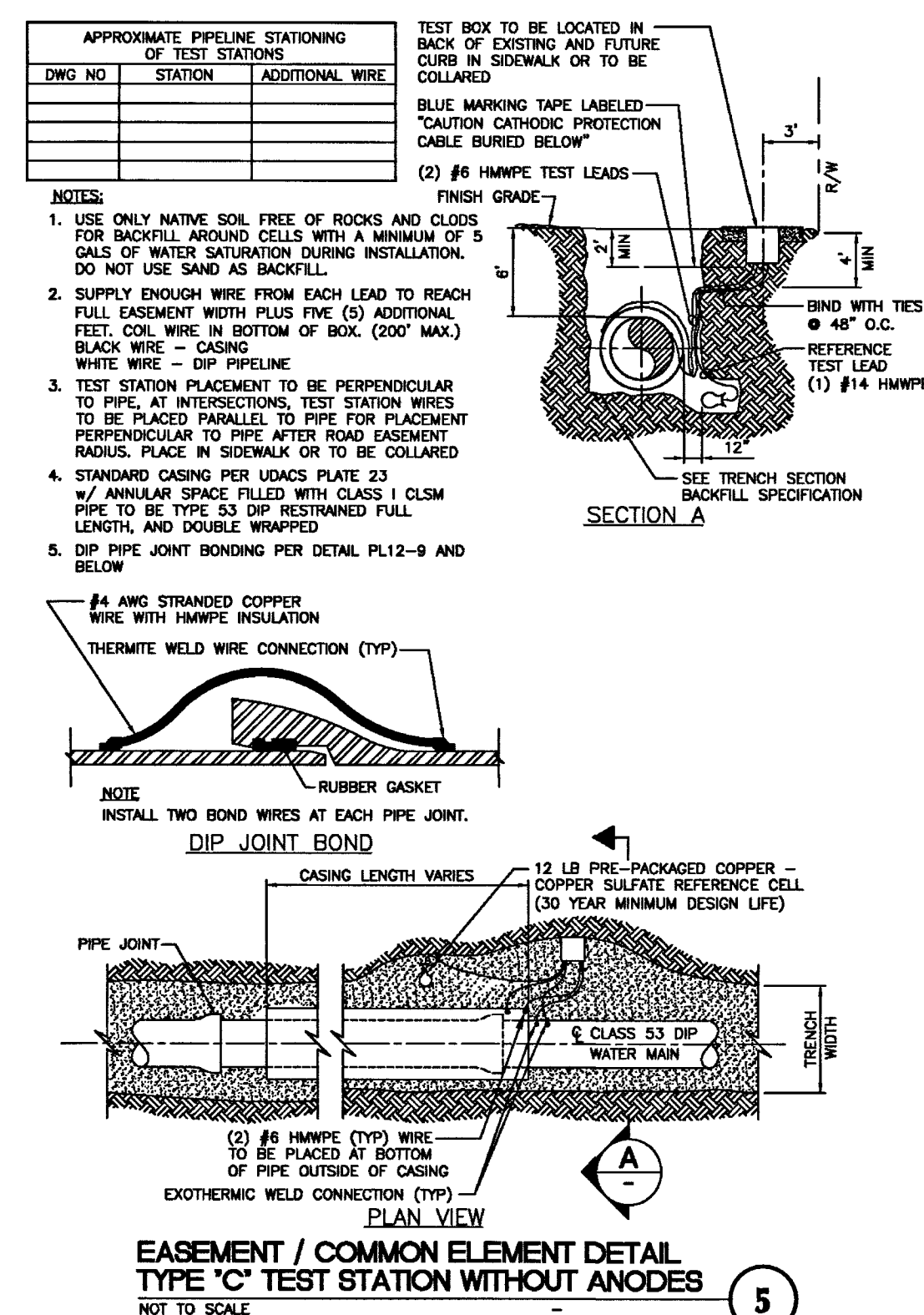
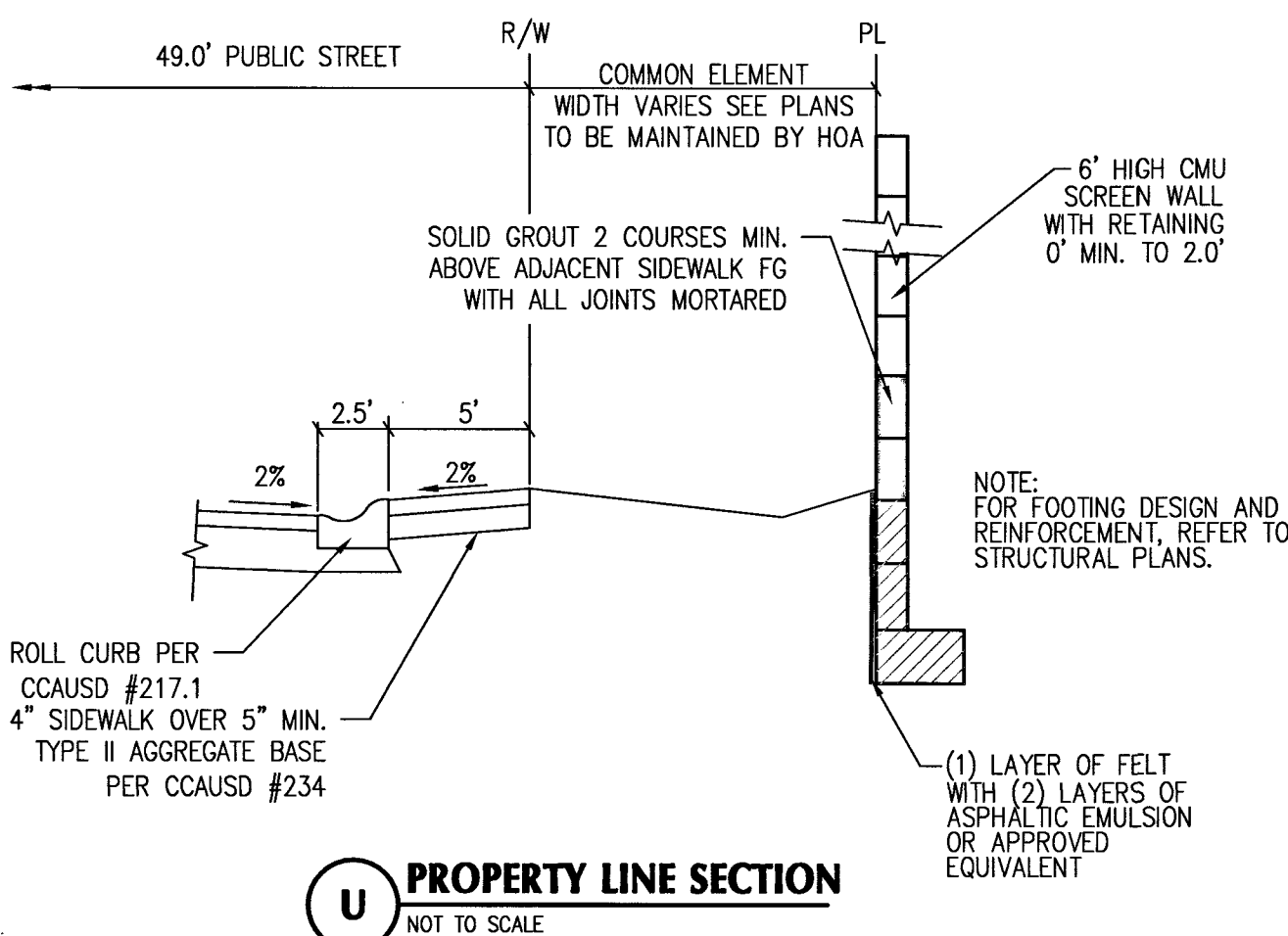
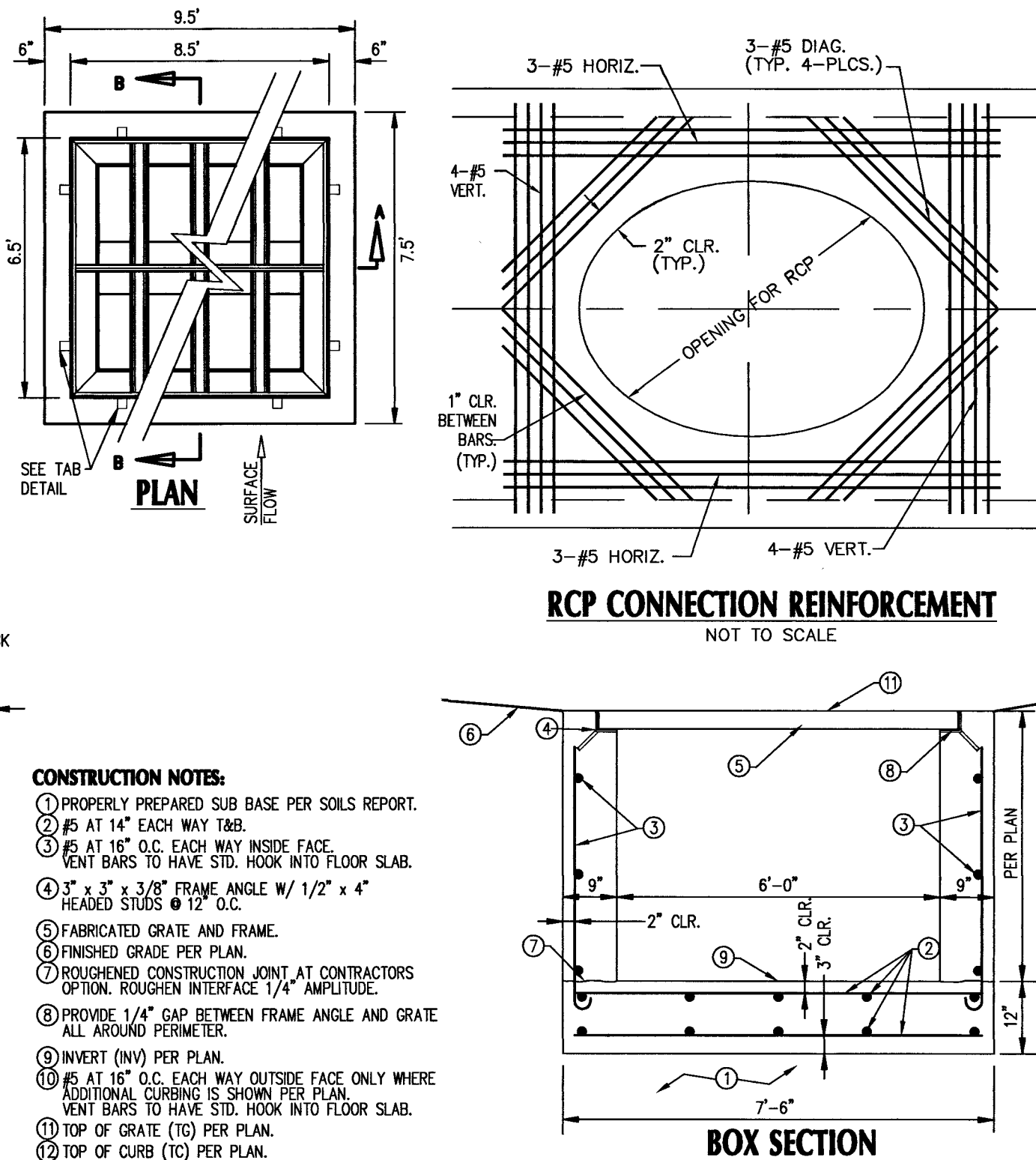
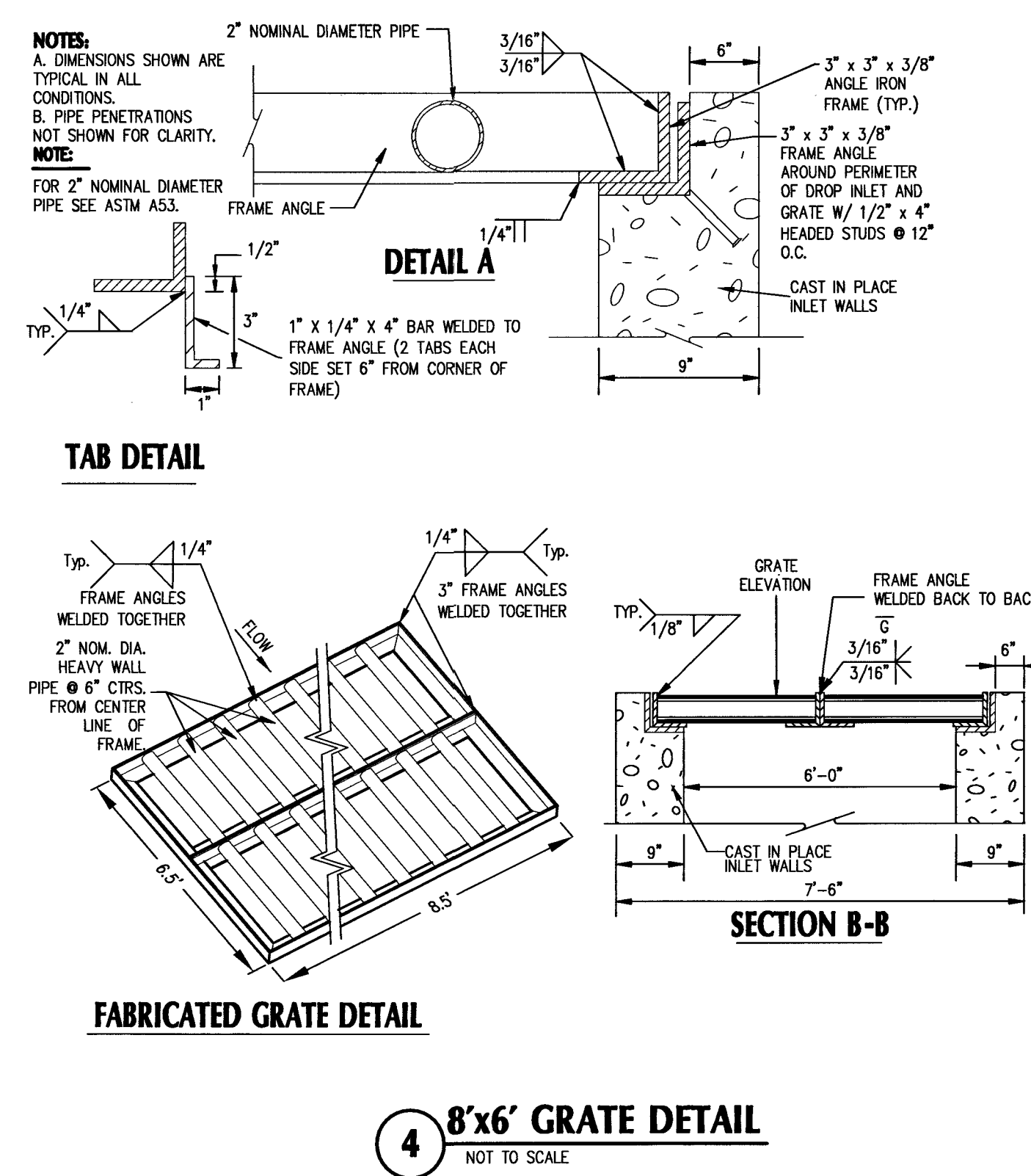
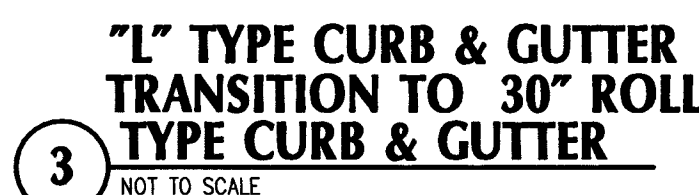
Office: 702.493.2294
Fax: 702.496.2294
Email: info@advantagcivil-nv.com

PLANNING

[illegible]

DE1	3 24
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PROJ#:135931A QS:138-28-SE



7 IRRIGATION DETAIL
NOT TO SCALE

GRADING DETAILS 2

BLM 33
BY D.R. HORTON

DESCRIPTION		NO.	DATE	COH.
JOB NUMBER: 02-043				
DRAWN BY: CW				
DESIGNED BY: CW				
CHECKED BY: BGD				
DATE: 12/2018				

DE2	$\frac{4}{24}$
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PROB# 135931A QS-138-28-SF

WESTCLIFF HEIGHTS UNIT NO.1
SUBDIVISION (R-1)

STORMWATER MANAGEMENT NOTES:

1. THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY BE DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY AS A RESULT OF CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SYSTEM.
2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN CLARK COUNTY TITLE 24.40 AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS BEEN TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NV100000, SECTION III.A.5.
4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPs WEEKLY, AND WITHIN 24 HOURS AFTER ANY RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NV100000, SECTION III.A.12.
5. ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

FAST
Call before you Dig
Underground
1-702-432-5300
SYSTEM OF TRANSPORTATION

Call before you Dig
811
1-800-227-2600

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
CALL BEFORE YOU DIG
1-702-227-2929

BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.
DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0
ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
CENTRAL MERIDIAN: 114°58'00" W
FALSE NORTHINGS: 200,000 METERS
FALSE EASTINGS: 100,000 METERS
STANDARD PARALLEL SCALE: 1:0001
LINEAR UNIT: US SURVEY FOOT (SFT)

BENCHMARK

ADVANTAGE CIVIL DESIGN GROUP, POINT "D" 2684' BEING A RIVET & PLATE IN TOP OF CURB AT NW CORNER OF WESTCLIFF & CIMARRON.
ELEVATION: 2551.98 FEET
777.844 METERS
CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007)
BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

EARTHWORK VOLUMES:

RAW CUT..... 29,528 CY
RAW FILL..... 48,607 CY
PRELIMINARY RAW NET..... 19,079 CY IMPORT
TOTAL SITE AREA..... 15.6 ACRES
THIS OPINION OF THE OUT AND FILL QUANTITIES IS PROVIDED AS REQUIRED BY CITY OF HENDERSON REQUIREMENTS. THIS INFORMATION SHOULD NOT BE USED FOR BIDDING PURPOSES. ALL CONTRACTORS ARE RESPONSIBLE FOR THEIR OWN QUANTITIES.

NOTE:

ADVANTAGE CIVIL DESIGN GROUP ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITIES SHOWN OR NOT SHOWN. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM RECORD INFORMATION AND ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY BOTH THE HORIZONTAL AND VERTICAL LOCATION OF ALL RELEVANT UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. IF A CONFLICT OR DISCREPANCY IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IMMEDIATELY.

GENERAL NOTES

1. SEE FINAL MAP FOR EXACT BEARINGS AND DISTANCES.
2. CONTRACTORS SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
3. ALL GRADING WORK TO CONFORM TO SOILS REPORT AS PREPARED FOR THIS PROPERTY.
FOR SOILS INFORMATION, REFERENCE SOILS STUDY
BY: ANGLE ENGINEERING
PROJECT NUMBER: 37031-1 DATED: 2/15/18
4. CONTRACTOR SHALL REMOVE EXCESS DEBRIS AND VERIFY WALL FOOTING ELEVATION PRIOR TO CONSTRUCTION, REPORT DISCREPANCIES TO ENGINEER IMMEDIATELY.
5. CONSTRUCT RETAINING WALL, FOOTING ELEVATION AND TOP OF RETAINING WALL ELEVATION PER PLAN.
6. CONTRACTOR TO MAINTAIN MIN. DEPTH OF COVER ABOVE PAD FOOTINGS AND ADJACENT WALL FOOTINGS WHERE DEEP SWALES OCCUR.
7. ADD 2500' TO ELEVATION TAGS SHOWN ON THIS GRADING PLAN.
8. DRIVEWAY SLOPES CANNOT EXCEED MAXIMUM SLOPE OF 12.5%
9. EXISTING ELECTRICAL TRANSFORMER TO BE RELOCATED BY CONTRACTOR.
10. INSTALL GROUTED LANDSCAPE ROCK SWALE D50=6", T=12" PER DETAIL "5" ON SHEET DE2.
11. COMMERCIAL DRIVEWAY APPROACH PER CCAUSD #224.
12. CONSTRUCT SIDEWALK RAMP PER CCAUSD #235, CASE 1 A & B = 8 U.O.N.
13. INSTALL "L" TYPE CURB AND GUTTER PER CCAUSD #216.
14. INSTALL DROP INLET PER DRAINAGE STRUCTURE TABLE SHEET GP2.
15. INSTALL CLASS III RCP STORM DRAIN, SIZE, LENGTH, & MATERIAL PER PLAN.
16. LANDSCAPE AREA, SEE LANDSCAPE PLANS.
17. GRADE TO DRAIN V-DITCH 0.5' DEEP, 10:1 SS. CONTRACTOR TO SALVAGE AND REINSTALL EXISTING LANDSCAPE ROCK.
18. INSTALL DECORATIVE WROUGHT IRON GATE PER CCAUSD #425 S1.

CONSTRUCTION NOTES:

1. SAWCUT AND MATCH EXISTING A.C. PAVEMENT, CURB, GUTTER, AND SIDEWALK PAVEMENT. CONTRACTOR TO VERIFY ELEVATION.
2. INSTALL 2" A.C. PAVEMENT WITH 4" TYPE II AGGREGATE BASE PER SOILS REPORT AND DETAIL "1" SHEET DE2.
3. INSTALL 30" ROLL CURB & GUTTER PER CCAUSD #217.1.
4. INSTALL 5" THICK SIDEWALK PER CCAUSD #234 (WIDTH PER PLANS).
5. INSTALL 8" CONCRETE VALLEY GUTTER PER CCAUSD #228.
6. INSTALL SIDEWALK UNDER DRAIN PER CCAUSD #236.
7. INSTALL CONCRETE GUTTER PER DETAIL "2", SHEET DE2.
8. CONSTRUCT 10" TRANSITION FROM "L" CURB TO "ROLL" CURB PER DETAIL "3" SHEET DE2.
9. EXISTING ELECTRICAL TRANSFORMER TO BE RELOCATED BY CONTRACTOR.
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18. INSTALL DECORATIVE WROUGHT IRON GATE PER CCAUSD #425 S1.

APPROVED FOR CONSTRUCTION

[Signature] 7/8/19
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135931 FIRST APPROVED DATE: 2-6-19

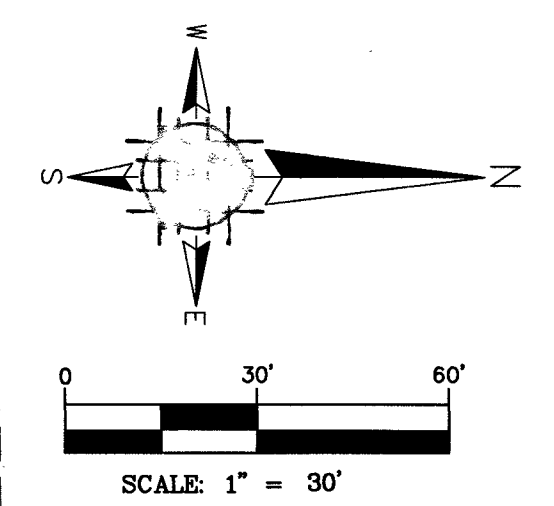
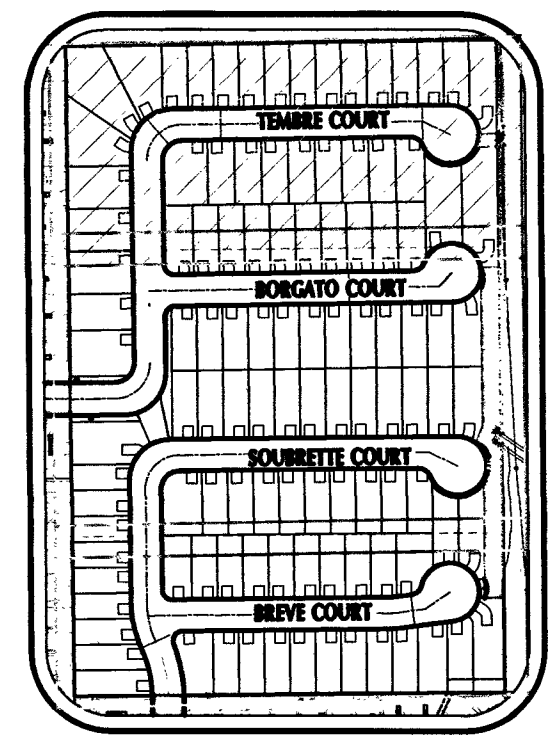
FLOOD NOTE:

SITE AREA LIES WITHIN FEMA ZONE "X" PER THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL 32003C 2545F, CLARK COUNTY, NEVADA, REVISED TO REFLECT LOMR EFFECTIVE MAY 10, 2016. FLOOD DESIGNATION PROVIDED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA)

DRAINAGE CERTIFICATION

"I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE CITY OF LAS VEGAS DRAINAGE REQUIREMENTS, D55012A"

6/20/2019
DATE
L18-02380 1075099
BRANDON G. DOTY P.E. #20002



LEGEND

- EXISTING PAVEMENT
- BLOCK WALL
- FLOW RATE/DIRECTION
- PROPERTY LINE
- SCARP (2:1 U.O.N.)
- RETAINING WALL
- 2090 PROPOSED CONTOUR
- 2090 EX. GRND CONTOUR
- (XX.XX) V-DITCH/SWALE
- (XX.XX) EXISTING GRADE
- BC FUTURE GRADE
- BCR ASPHALTIC CONCRETE
- BVC BACK OF CURB
- BL BEGIN VERTICAL CURVE
- CL CENTERLINE
- C.E. COMMON ELEMENT
- C&G CURB AND GUTTER
- EP EDGE OF PAVEMENT
- EVC END VERTICAL CURVE
- EX EXISTING
- FF FINISH FLOOR
- FG FINISH GRADE
- FL FLOW LINE
- GB GRADE BREAK
- LSA LANDSCAPE AREA
- MG MATCH EXISTING GRADE
- M.U.E. MUNICIPAL UTILITY EASEMENT
- N.U.E. NON EXCLUSIVE UTILITY EASEMENT
- PAD PAD GRADE
- PP POWER POLE
- PL PRIVATE STREET
- P.U.E. PUBLIC UTILITY EASEMENT
- R/W RIGHT OF WAY
- SVZ SIGHT VISIBILITY ZONE
- TC TOP OF CURB
- TF TOP OF FOOTING
- TFW TOP OF RETAINING WALL
- TRANS TOP OF FLOOD WALL
- VG VALLEY GUTTER
- V.C. VERTICAL CURVE
- U.O.N. UNLESS OTHERWISE NOTED
- UNIT BOUNDARY
- MATCHLINE
- AREA OF NEW AC PAVEMENT

ADVANTAGE CIVIL DESIGN GROUP, LLP
2920 N. GREEN VALLEY PKWY, BLDG. 4, STE. # 422
HENDERSON, NEVADA 89014

Office: 702.452.2294
Fax: 702.456.2294
Email: WA@ADVANTAGECIVIL-LLP.COM

CIVIL ENGINEERING

CONSULTING

PROFESSIONAL SEAL

BRANDON G. DOTY
P.E. #20002
CIVIL

EXPIRATION DATE: 12/31/2024

STATE OF NEVADA

REGISTERED PROFESSIONAL ENGINEER

EXPIRATION DATE: 12/31/2024

12/24/19

GRADING PLAN 1

BLM 33

BY D.R. HORTON

REVISIONS

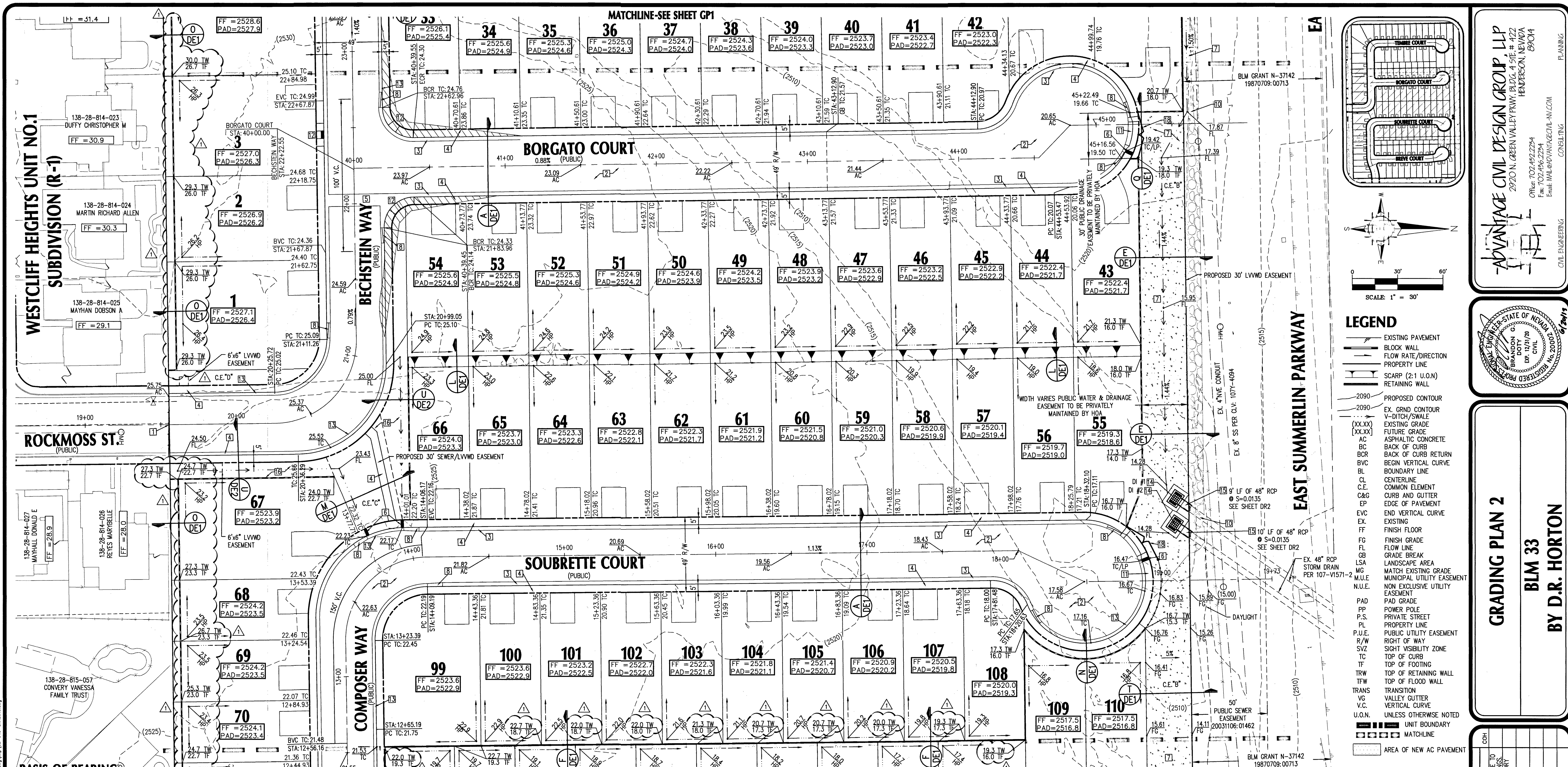
NO.	DATE	DESCRIPTION
1	5/2/19	REVISED RETAINING WALLS, REVISED WATER MAIN DUE TO CONFLICTS, UPDATE STATIONS FOR WATERMAIN FITTINGS, ADDED NOTE TO REMOVE EX. SEWER STUB, ADDED DRY UTILITY PLANS.
2	6/20/2019	JOB NUMBER: 02-043 DRAWN BY: CW DESIGNED BY: CW CHECKED BY: BGD DATE: 12/2018

GP1

5

24

PROJ#: 135931A QS-138-28-SE



BASIS OF BEARING
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS). LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

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CENTRAL MERIDIAN: 114°58'00" W
FALSE NORTHING: 200,000 METERS
FALSE EASTING: 100,000 METERS
STANDARD PARALLEL SCALE: 1.0001
LINEAR UNIT: US SURVEY FOOT (SFT)

FLOOD NOTE:
SITE AREA LIES WITHIN FEMA ZONE "X" PER THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL 32003C 2545F, CLARK COUNTY, NEVADA REVISED TO REFLECT LOMR EFFECTIVE MAY 10, 2016. FLOOD DESIGNATION PROVIDED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA)

FAST
Call before you Dig
1-702-432-5300

Call 811
1-800-227-2600

Call before you Dig
1-702-227-2929

CONSTRUCTION NOTES:

- SAWCUT AND MATCH EXISTING AC, PAVEMENT, CURB, GUTTER, AND SIDEWALK PAVEMENT. CONTRACTOR TO VERIFY ELEVATION.
- INSTALL 2" A.C. PAVEMENT WITH 4" TYPE 1 AGGREGATE BASE PER SOILS REPORT AND DETAIL "1" SHEET DE2.
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- INSTALL DECORATIVE WROUGHT IRON GATE PER CCAUSD #425 S1.

EARTHWORK VOLUMES:

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RAW FILL..... 48,807 CY
PRELIMINARY RAW NET..... 19,079 CY IMPORT
TOTAL SITE AREA..... 15.6 ACRES
THIS OPINION OF THE CUT AND FILL QUANTITIES IS PROVIDED AS REQUIRED BY CITY OF HENDERSON REQUIREMENTS. THIS INFORMATION SHOULD NOT BE USED FOR BIDDING PURPOSES. ALL CONTRACTORS ARE RESPONSIBLE FOR THEIR OWN QUANTITIES.

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APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135931 FIRST APPROVED DATE: 3-19-19

STORMWATER MANAGEMENT NOTES:

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- ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORSEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN CLARK COUNTY TITLE 24.40, AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
- TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS BEEN TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.5.
- AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPs WEEKLY, AND WITHIN 24 HOURS AFTER ANY RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.12.
- ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

DRAINAGE STRUCTURE TABLE

STRUCTURE NAME	STRUCTURE	DEPTH	SIZE
*DI #1	GRATE: 2511.78 INV OUT: (2502.93')	DEPTH: 9.3'	8'x6'
*DI #2	GRATE: 2511.78 INV OUT: (2502.81')	DEPTH: 9.4'	8'x6'

*STORMWATER INLET CONCRETE STAMP PER USDOCC DRAWING #421

GENERAL NOTES

- SEE FINAL MAP FOR EXACT BEARINGS AND DISTANCES.
- CONTRACTORS SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
- ALL GRADING WORK TO CONFORM TO SOILS REPORT AS PREPARED FOR THIS PROPERTY. FOR SOILS INFORMATION, REFERENCE SOILS STUDY BY: ANGLE ENGINEERING. PROJECT NUMBER: 37031-1 DATED: 2/15/18
- CONTRACTOR SHALL REMOVE EXCESS DEBRIS AND VERIFY WALL FOOTING ELEVATION PRIOR TO CONSTRUCTION. REPORT DISCREPANCIES TO ENGINEER IMMEDIATELY.
- CONSTRUCT RETAINING WALL, FOOTING ELEVATION AND TOP OF RETAINING WALL ELEVATION PER PLAN.
- CONTRACTOR TO MAINTAIN MIN. DEPTH OF COVER ABOVE PAD FOOTINGS AND ADJACENT WALL FOOTINGS WHERE DEEP SWALES OCCUR.
- ADD 2500' TO ELEVATION TAGS SHOWN ON THIS GRADING PLAN.
- DRIVEWAY SLOPES CANNOT EXCEED MAXIMUM SLOPE OF 12.5%.

DRAINAGE CERTIFICATION
I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE CITY OF LAS VEGAS DRAINAGE REQUIREMENTS, DS5012A

BRANDON G. DOTY P.E. #20002
DATE: 6/20/2019
L18-02380 107Y5099

REVISIONS

NO.	DATE	DESCRIPTION
1	5/2/19	REVISED RETAINING WALLS, REVISED WATER MAIN DATE TO CONFORM TO THE CITY OF LAS VEGAS DRAINAGE REQUIREMENTS, DS5012A.

JOB NUMBER: 02-043
DRAWN BY: CW
DESIGNED BY: CW
CHECKED BY: BGD
DATE: 12/2018

GP2 **6** **24**

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CONSULTING
CIVIL ENGINEERING

BLM 33
BY D.R. HORTON

GRADING PLAN 2

LEGEND

- EXISTING PAVEMENT
- BLOCK WALL
- FLOW RATE/DIRECTION
- PROPERTY LINE
- SCARP (2:1 U.O.N.)
- RETAINING WALL
- PROPOSED CONTOUR
- EX. GRND CONTOUR
- V-DITCH/SWALE
- EXISTING GRADE
- FUTURE GRADE
- AC
- ASPHALTIC CONCRETE
- BACK OF CURB
- BACK OF CURB RETURN
- BVC
- BOUNDARY LINE
- CL
- CENTERLINE
- C.E.
- COMMON ELEMENT
- C&G
- CURB AND GUTTER
- EP
- EDGE OF PAVEMENT
- EVC
- END VERTICAL CURVE
- EX
- EXISTING
- FF
- FINISH FLOOR
- FG
- FINISH GRADE
- FL
- FLOW LINE
- GB
- GRADE BREAK
- LANDSCAPE AREA
| LSA | MATCH EXISTING GRADE |
| MG | MUNICIPAL UTILITY EASEMENT |
| N.U.E. | NON EXCLUSIVE UTILITY EASEMENT |
| PAD | PAVEMENT |
| PP | POWER POLE |
| P.S. | PRIVATE STREET |
| PL | PROPERTY LINE |
| P.U.E. | PUBLIC UTILITY EASEMENT |
| R/W | RIGHT OF WAY |
| SVZ | SIGHT VISIBILITY ZONE |
| TC | TOP OF CURB |
| TF | TOP OF FOOTING |
| TRW | TOP OF RETAINING WALL |
| TFW | TOP OF FLOOD WALL |
| TRANS | TRANSITION |
| VG | VALLEY GUTTER |
| V.C. | VERTICAL CURVE |
| U.O.N. | UNLESS OTHERWISE NOTED |
| UNIT BOUNDARY | |
| MATCHLINE | |
| AREA OF NEW AC PAVEMENT | |

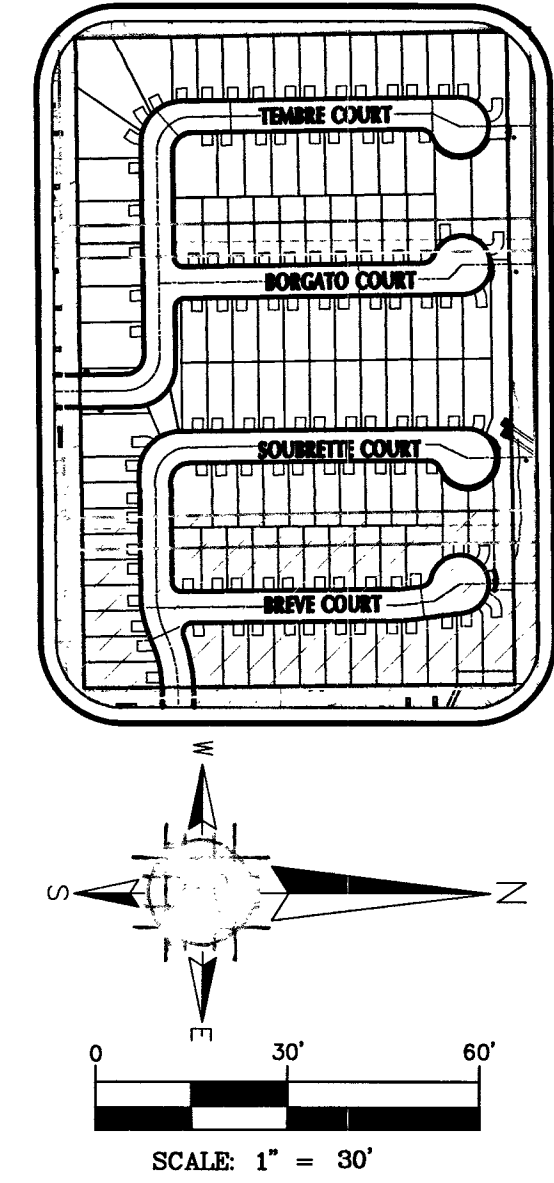
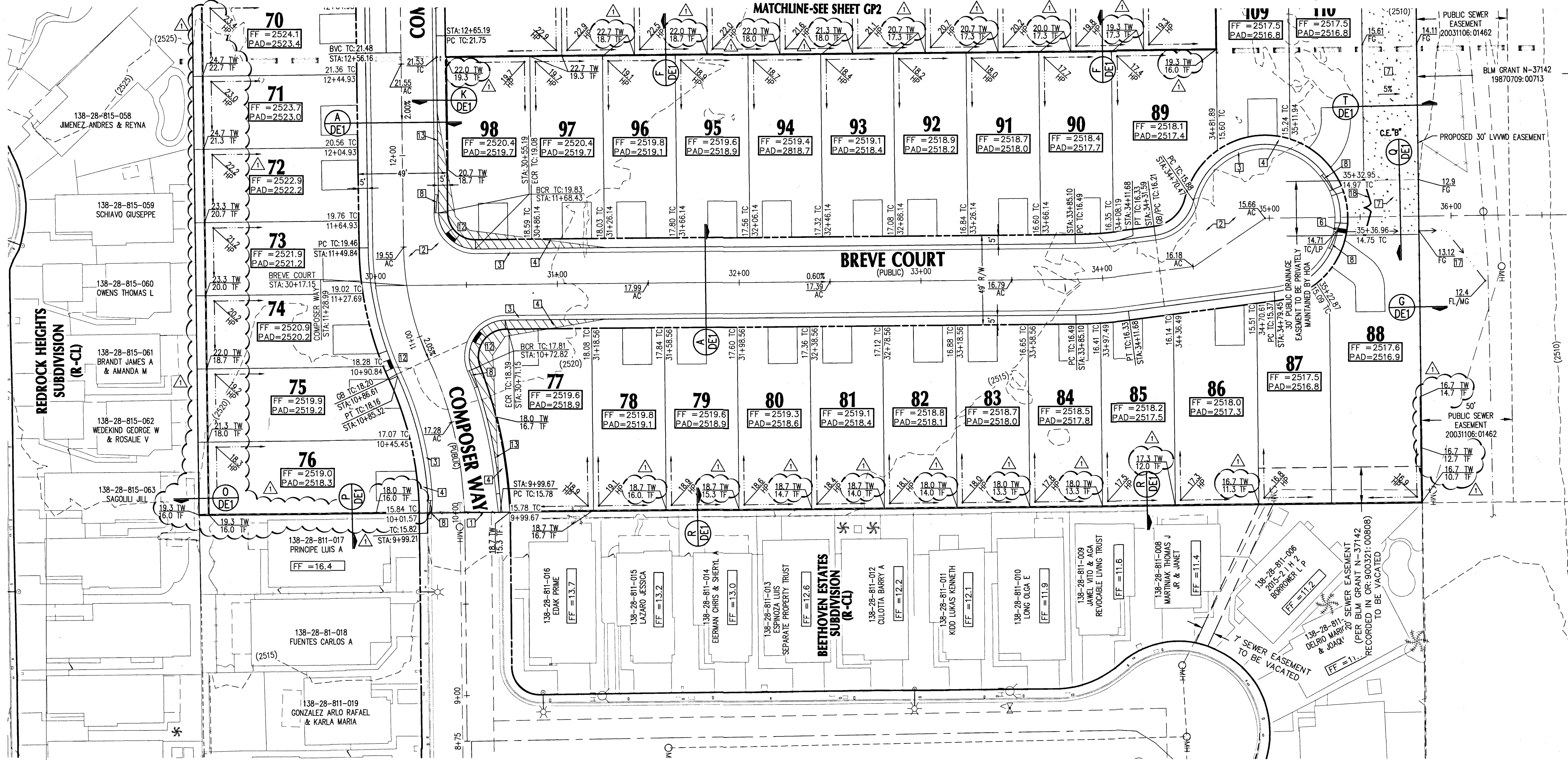
SCALE: 1" = 30'

BLM GRANT N-37142
19870709:00713

EAST SUMMERLIN PARKWAY

WESTCLIFF HEIGHTS UNIT NO.1
SUBDIVISION (R-1)

BORGATO COURT
BECHSTEIN WAY
ROCKMOSS ST
SOUBRETTE COURT
COMPOSER WAY



- LEGEND**
- EXISTING PAVEMENT
 - FLOW RATE/DIRECTION
 - PROPERTY LINE
 - SCARP (2:1 U.O.N)
 - RETAINING WALL
 - PROPOSED CONTOUR
 - EX. GRND CONTOUR
 - V-DITCH/SWALE
 - EXISTING GRADE
 - FUTURE GRADE
 - AC ASPHALTIC CONCRETE
 - BC BACK OF CURB
 - BOR BACK OF CURB RETURN
 - BVC BEGIN VERTICAL CURVE
 - BL BOUNDARY LINE
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 - C&G CURB AND GUTTER
 - EP EDGE OF PAVEMENT
 - EVC END VERTICAL CURVE
 - EX EXISTING
 - FF FINISH FLOOR
 - FG FINISH GRADE
 - FL FLOW LINE
 - GB GRADE BREAK
 - LSA LANDSCAPE AREA
 - WG MATCH EXISTING GRADE
 - M.U.E MUNICIPAL UTILITY EASEMENT
 - N.U.E NON EXCLUSIVE UTILITY EASEMENT
 - PAD PAD GRADE
 - PP POWER POLE
 - P.S. PRIVATE STREET
 - PL PROPERTY LINE
 - P.U.E PUBLIC UTILITY EASEMENT
 - R/W RIGHT OF WAY
 - SVZ SIGHT VISIBILITY ZONE
 - TC TOP OF CURB
 - TF TOP OF FOOTING
 - TRW TOP OF RETAINING WALL
 - TFW TOP OF FLOOD WALL
 - TRANS TRANSITION
 - VS VALLEY CUTTER
 - V.C. VERTICAL CURVE
 - U.O.N. UNLESS OTHERWISE NOTED
 - UNIT BOUNDARY
 - MATCHLINE
 - AREA OF NEW AC PAVEMENT

STORMWATER MANAGEMENT NOTES:

- THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY AS A RESULT OF CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SYSTEM.
- ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORSEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN CLARK COUNTY TITLE 24.40, AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
- TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS BEEN TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.5.
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FLOOD NOTE:

SITE AREA LIES WITHIN FEMA ZONE "X" PER THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL 32003C 2545F, CLARK COUNTY, NEVADA REVISED TO REFLECT LOWR EFFECTIVE MAY 10, 2016. FLOOD DESIGNATION PROVIDED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA)

BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 3615°00' N
CENTRAL MERIDIAN: 114°58'00' W
FALSE NORTHING: 200,000 METERS
FALSE EASTING: 100,000 METERS
STANDARD PARALLEL SCALE: 1.0001
LINEAR UNIT: US SURVEY FOOT (SFT)

BENCHMARK

AT LAS VEGAS VERTICAL CONTROL POINT "OLVDO 285A" BEING A RIVET & PLATE IN TOP OF CURB AT NW CORNER OF WESTCLIFF & CIMARRON.

ELEVATION: 2551.98 FEET
777.844 METERS

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007)
BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

STORM DRAIN QUANTITIES

CONCRETE FOR DRAINAGE EASEMENTS 1400 SY
GROUTED RIP-RAP D50=6", T=12" 169 CY
48" ROP STORM DRAIN 19 LF
8"x6" DROP INLET 2 EA

SOILS NOTE:

FOR SOILS INFORMATION, REFERENCE SOILS STUDY
BY: ANGLE ENGINEERING
PROJECT NUMBER: 37031-1
DATED: 2/15/18

EARTHWORK VOLUMES:

RAW CUT..... 29,528 CY
RAW FILL..... 48,607 CY
PRELIMINARY RAW NET..... 19,079 CY IMPORT
TOTAL SITE AREA..... 15.6 ACRES
THIS OPINION OF THE CUT AND FILL QUANTITIES IS PROVIDED AS REQUIRED BY CITY OF HENDERSON REQUIREMENTS. THIS INFORMATION SHOULD NOT BE USED FOR BIDDING PURPOSES. ALL CONTRACTORS ARE RESPONSIBLE FOR THEIR OWN QUANTITIES.

NOTE:

ADVANTAGE CIVIL DESIGN GROUP ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITIES SHOWN OR NOT SHOWN. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM RECORD INFORMATION AND ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY BOTH THE HORIZONTAL AND VERTICAL LOCATION OF ALL RELEVANT UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. IF A CONFLICT OR DISCREPANCY IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IMMEDIATELY.

GENERAL NOTES

- SEE FINAL MAP FOR EXACT BEARINGS AND DISTANCES.
- CONTRACTORS SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
- ALL GRADING WORK TO CONFORM TO SOILS REPORT AS PREPARED FOR THIS PROPERTY. FOR SOILS INFORMATION, REFERENCE SOILS STUDY BY: ANGLE ENGINEERING PROJECT NUMBER: 37031-1 DATED: 2/15/18
- CONTRACTOR SHALL REMOVE EXCESS DEBRIS AND VERIFY WALL FOOTING ELEVATION PRIOR TO CONSTRUCTION, REPORT DISCREPANCIES TO ENGINEER IMMEDIATELY.
- CONSTRUCT RETAINING WALL, FOOTING ELEVATION AND TOP OF RETAINING WALL ELEVATION PER PLAN.
- CONTRACTOR TO MAINTAIN MIN. DEPTH OF COVER ABOVE PAD FOOTINGS AND ADJACENT WALL FOOTINGS WHERE DEEP SWALES OCCUR.
- ADD 2500' TO ELEVATION TAGS SHOWN ON THIS GRADING PLAN.
- DRIVEWAY SLOPES CANNOT EXCEED MAXIMUM SLOPE OF 12.5%

CONSTRUCTION NOTES:

- SAWCUT AND MATCH EXISTING A.C. PAVEMENT, CURB, GUTTER, AND SIDEWALK PAVEMENT. CONTRACTOR TO VERIFY ELEVATION.
- INSTALL 2" A.C. PAVEMENT WITH 4" TYPE II AGGREGATE BASE PER SOILS REPORT AND DETAIL "1" SHEET DE2
- INSTALL 30" ROLL CURB & GUTTER PER CCAUSD #217.1
- INSTALL 5" THICK SIDEWALK PER CCAUSD #234 (WIDTH PER PLANS).
- INSTALL 8" CONCRETE VALLEY GUTTER PER CCAUSD #228
- INSTALL SIDEWALK UNDER DRAIN PER CCAUSD #236
- INSTALL CONCRETE GUTTER PER DETAIL "2", SHEET DE2
- CONSTRUCT 10' TRANSITION FROM "L" CURB TO "ROLL" CURB PER DETAIL "3" SHEET DE2
- EXISTING ELECTRICAL TRANSFORMER TO BE RELOCATED BY CONTRACTOR.
- INSTALL GROUTED LANDSCAPE ROCK SWALE D50=6", T=12" PER DETAIL "5" ON SHEET DE2
- COMMERCIAL DRIVEWAY APPROACH PER CCAUSD #224
- CONSTRUCT SIDEWALK RAMP PER CCAUSD #235, CASE 1 A & B = 8 U.O.N.
- INSTALL "L" TYPE CURB AND GUTTER, PER CCAUSD #216.
- INSTALL DROP INLET PER DRAINAGE STRUCTURE TABLE SHEET GP2.
- INSTALL CLASS III ROP STORM DRAIN, SIZE, LENGTH, & MATERIAL PER PLAN.
- LANDSCAPE AREA, SEE LANDSCAPE PLANS.
- GRADE TO DRAIN V-DITCH 0.5' DEEP, 10:1 SS. CONTRACTOR TO SALVAGE AND REINSTALL EXISTING LANDSCAPE ROCK.
- INSTALL DECORATIVE WROUGHT IRON GATE PER CCAUSD #425 S1.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135931A FIRST APPROVED DATE: 2-6-19

DRAINAGE CERTIFICATION

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE CITY OF LAS VEGAS DRAINAGE REQUIREMENTS, D55012A

BRANDON G. DOTY P.E. #20002
DATE: 6/20/2019

GRADING PLAN 3

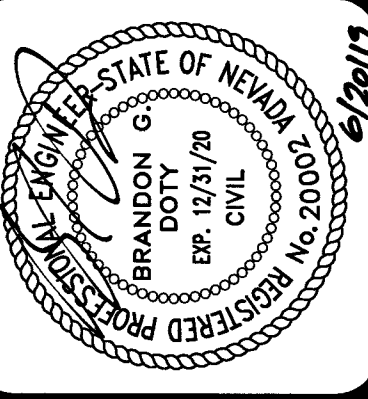
BLM 33

BY D.R. HORTON

ADVANTAGE CIVIL DESIGN GROUP, LLP
2920 N. GREEN VALLEY PKWY. BLDG. 4 STE # 422
HENDERSON, NEVADA 89014

Office: 702.452.2224
Fax: 702.456.2224
Email: MAIL@ADVANTAGECIVIL-LLP.COM

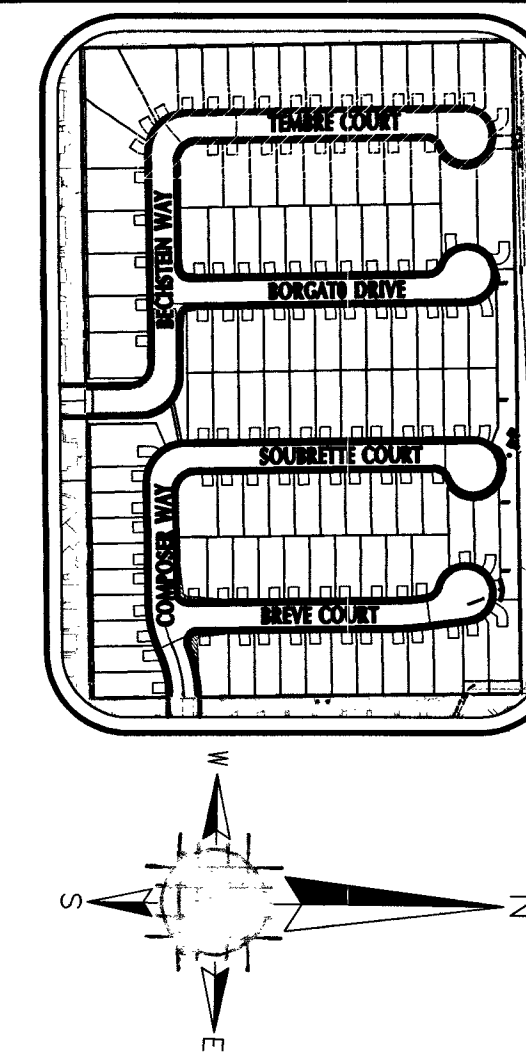
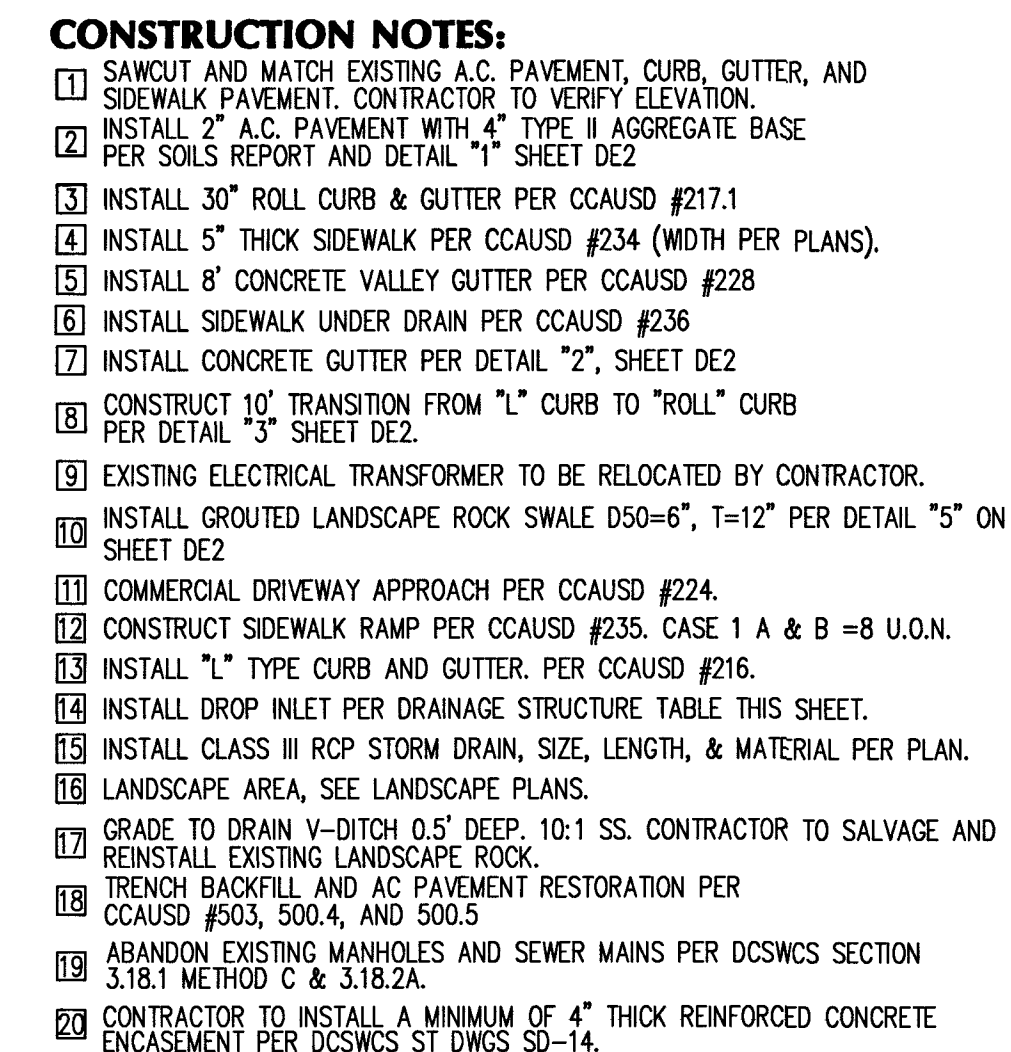
CIVIL ENGINEERING PLANNING



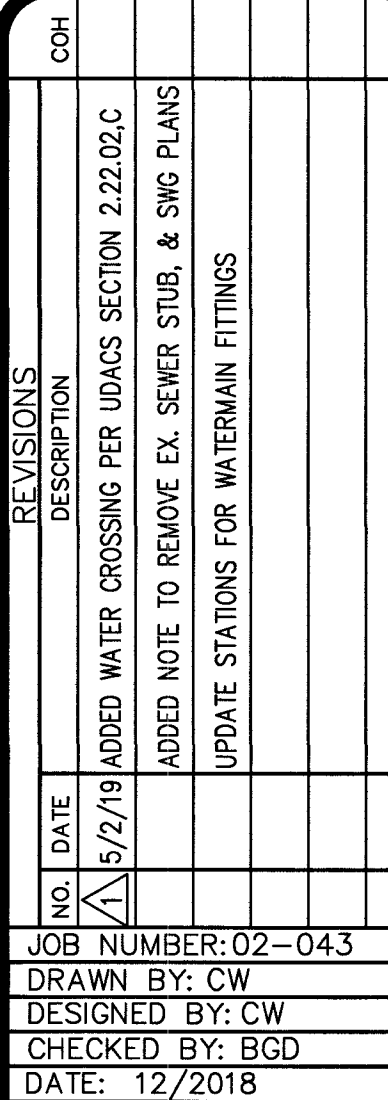
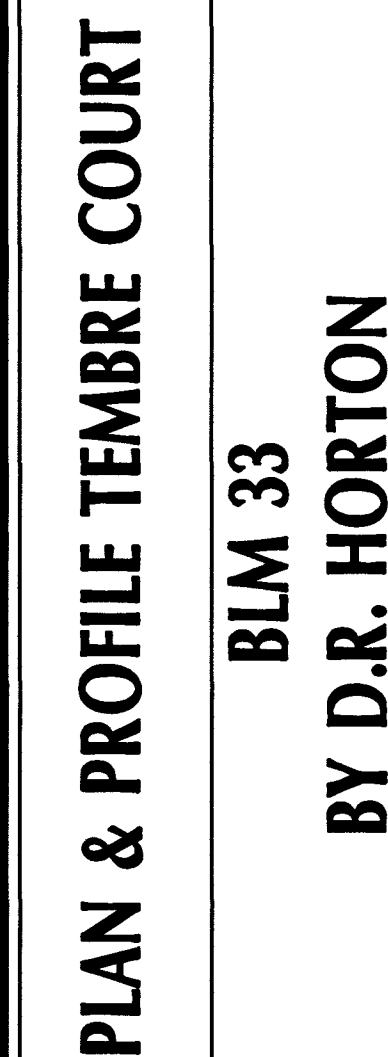
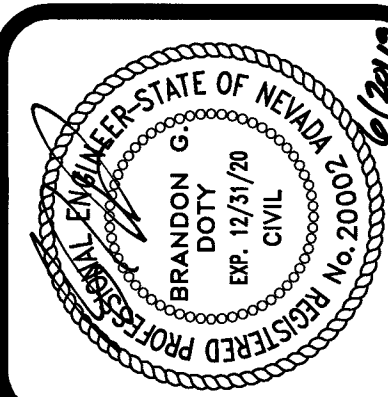
REVISIONS		NO.	DATE	DESCRIPTION
1	5/2/19	1		REVISED RETAINING WALLS, DELETED WATER MAIN DUE TO CONFLICTS, UPDATE STATIONS FOR WATERMAIN ELEVATIONS, ADDED NOTE TO REMOVE EX. SEWER STUD, ADDED DRY UTILITY PLANS.

JOB NUMBER: 02-043	DRAWN BY: CW
DESIGNED BY: CW	CHECKED BY: BGD
DATE: 12/2018	
GP3	7
24	

L18-02380 107Y5099



ADVANTAGE CIVIL DESIGN GROUP, LLP
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LEGEND	
CENTER LINE	----
RIGHT-OF-WAY	=====
PROPOSED WATER	<u>PVC W</u>
PROPOSED SEWER	<u>PVC SS</u>
EXISTING WATER	<u>EX. WATER LINE</u>
EXISTING SEWER	<u>EX. SEWER LINE</u>
EXISTING GAS	<u>EX. GAS</u>
PROPOSED SAWCUT	~~~~~
EXISTING EDGE PVMT	⏏
SANITARY SEWER	SS
WATER	WAT
PRIVATE	PVT
INVERT	INVT
ELEVATION	ELEV
MANHOLE	MH

UTILITY NOTES:

1. ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS), LATEST EDITION.
2. WATER AND SEWER SERVICE LATERALS SHALL BE INSTALLED A MINIMUM OF FORTY-EIGHT (48) INCHES APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE INSTALLED AT THE (12) INCHES ABOVE THE SEWER LATERAL. (REF. UDACS 2.17.01.05)
3. GATE VALVES SHALL NOT BE LOCATED IN STREET GUTTERS, VALLEY GUTTERS, OR IN DRIVEWAYS PER UDACS FOR WATER DISTRIBUTION STANDARDS SECTION 2.11.01.06.
4. ALL SEWER AND WATER CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSING AND CLEARANCES.
5. ALL LOTS HAVE WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE REDUCING VALVES BE INSTALLED WHENEVER PRESSURE EXCEEDS 80 PSI.
6. INSTALL PIPELINE MARKER BALLS, PER UDACS PLATE NO. 15.
7. WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03.
8. MAINTAIN MINIMUM 24" COVER PER UDACS 2.08.04. GRADING MUST BE COMPLETE PRIOR TO ANY MAIN INSTALLATION.
9. WATER MAIN JOINT DEFLECTION PER UDACS 2.07.01 AND 2.07.03.
10. INSTALL PIPELINE MARKER BALLS PER UDACS PLATE NO. 15.

GENERAL NOTES

1. SEE FINAL MAP FOR EXACT BEARINGS AND DISTANCES.
2. CONTRACTORS SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
3. ALL GRADING WORK TO CONFORM TO SOILS REPORT AS PREPARED FOR THIS PROPERTY.
4. CONTRACTOR SHALL REMOVE EXCESS DEBRIS AND VERIFY WALL FOOTING ELEVATION PRIOR TO CONSTRUCTION, REPORT DISCREPANCIES TO ENGINEER IMMEDIATELY.
5. CONSTRUCT RETAINING WALL, FOOTING ELEVATION AND TOP OF WALL ELEVATION PER PLAN.
6. CONTRACTOR SHALL MAINTAIN MIN. DEPTH OF COVER ABOVE PAD FOOTINGS AND ADJACENT WALL FOOTINGS WHERE DEEP SWALES OCCUR.
7. ADD 2500' TO ELEVATION TAGS SHOWN ON THIS GRADING PLAN.
8. DRIVEWAY SLOPES CANNOT EXCEED MAXIMUM SLOPE OF 12.5%.

APPROVED FOR CONSTRUCTION

7/8/19
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135931 DATE: 2-6-19

L18-02380

107Y5099

PP1

24

PROJ.#:135931A QS:138-28-SF

Plot Date: 06-20-19 Plot Time: 11:33:22 DWG Path: N:\Horton\043 BLM 33\dwg\mfp\02-043-PNP.DWG

FAST

 Call
before you
UnderGround
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FREEWAY AND ARTERIAL
SYSTEM OF TRANSPORTATION

Call before you Dig
AVOID CUTTING UNDERGROUND
UTILITY LINES. IT'S COSTLY.

Call
811

OR

1-800-227-2600

AVOID HITTING OVERHEAD
POWER LINES. IT'S COSTLY.

CALL BEFORE
YOU DO
OVERHEAD

1-702-227-2929

BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0
 ZONE: LAS VEGAS ZONE
 STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
 CENTRAL MERIDIAN: 114°58'00" W
 FALSE NORTHING: 200,000 METERS
 FALSE EASTING: 100,000 METERS
 STANDARD PARALLEL SCALE: 1.0001
 LINEAR UNIT: US SURVEY FOOT (SFT)

BENCHMARK

CITY OF LAS VEGAS VERTICAL CONTROL POINT "01V00 28S4" BEING A RIVET & PLATE IN TOP OF CURB AT NW CORNER OF WESTCLIFF & CIMARRON.

ELEVATION: 2551.98 FEET
777.844 METERS

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007)
BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

SIGHT VISIBILITY NOTE:

NO WALLS, FENCES, TREES, SHRUBS UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTING, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE.

NOTE:

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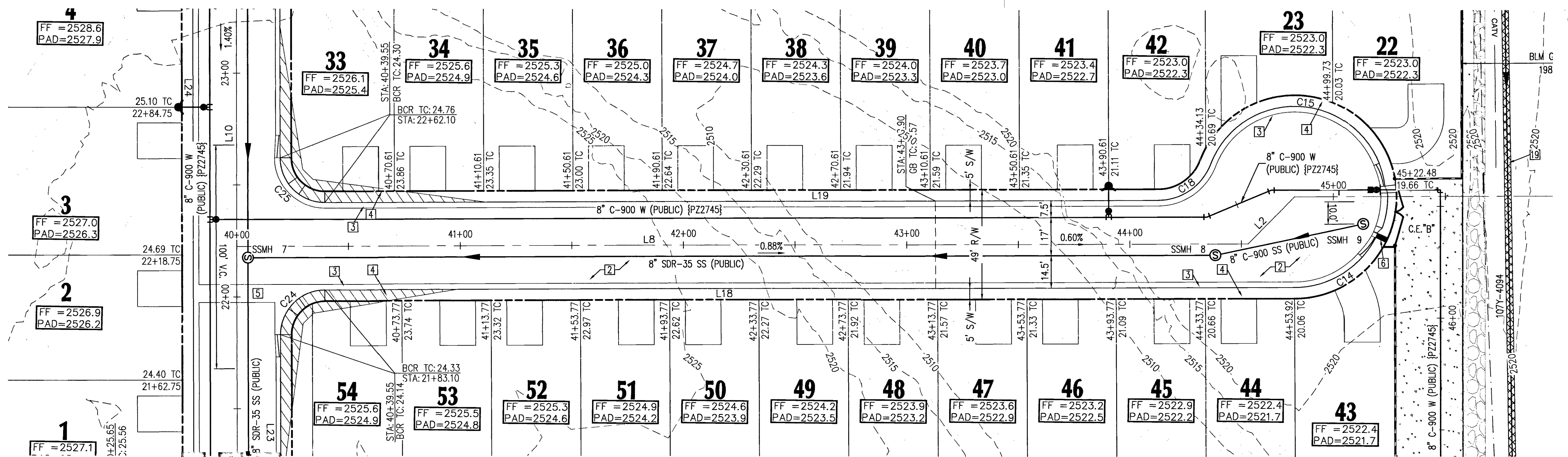
PP1

BASIS OF BEARING
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.
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ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
CENTRAL MERIDIAN: 114°58'00" W
FALSE NORTHING: 200,000 METERS
FALSE EASTING: 100,000 METERS
STANDARD PARALLEL SCALE: 1.0001
LINEAR UNIT: US SURVEY FOOT (SFT)

BENCHMARK
CITY OF LAS VEGAS VERTICAL CONTROL POINT "01V00 2854" BEING A RIVET & PLATE IN TOP OF CURB AT NW CORNER OF WESTCLIFF & CIMARRON.
ELEVATION: 2551.98 FEET
777.844 METERS
CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007) BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

SIGHT VISIBILITY NOTE:
NO WALLS, FENCES, TREES, SHRUBS UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTING, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE.
NOTE:
ADVANTAGE CIVIL DESIGN GROUP ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITIES SHOWN OR NOT SHOWN. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM RECORD INFORMATION AND ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY BOTH THE HORIZONTAL AND VERTICAL LOCATION OF ALL RELEVANT UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. IF A CONFLICT OR DISCREPANCY IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IMMEDIATELY.

NOTE:
LOTS 22-23 REQUIRE C-900 SANITARY SEWER LATERAL



BORGATO COURT (PUBLIC)-PLAN VIEW

SCALE: 1"=30'

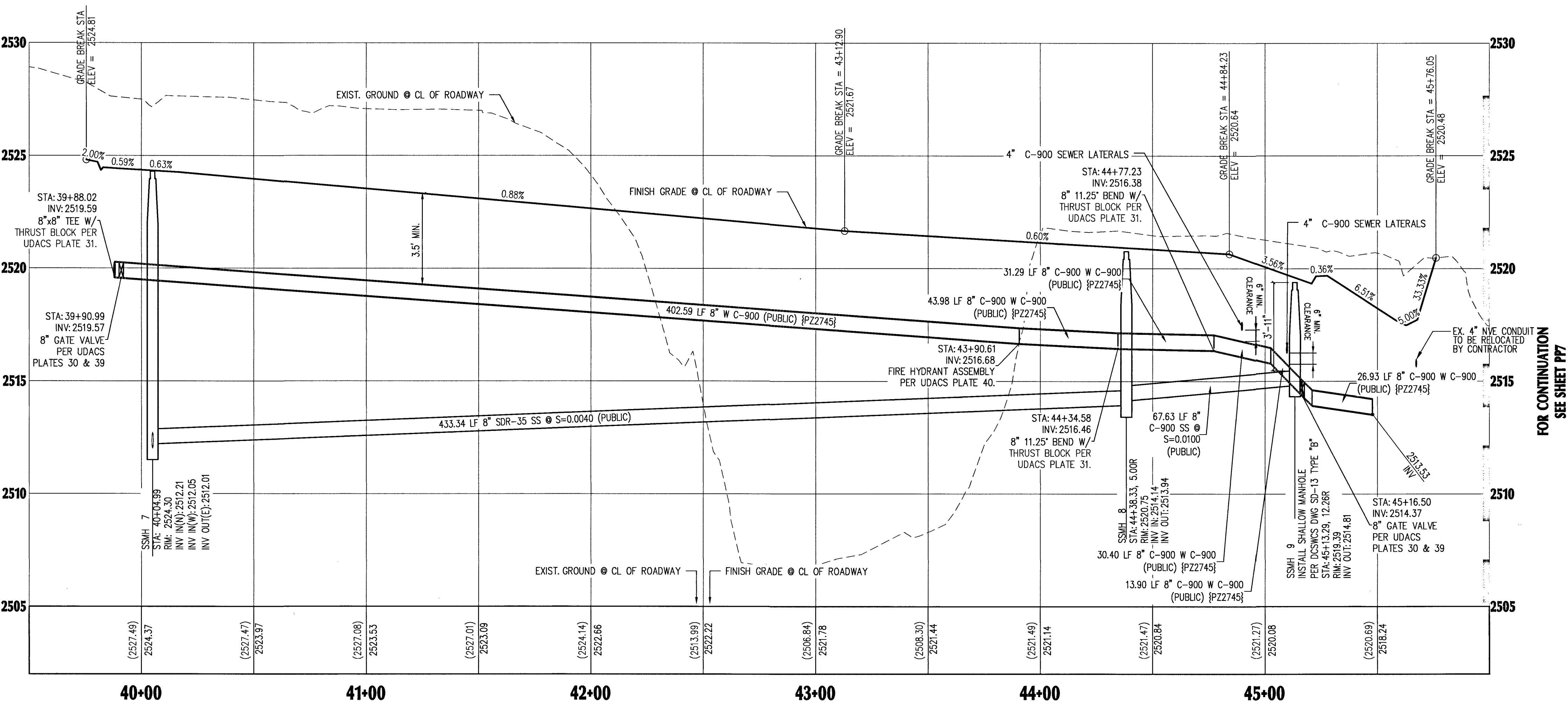
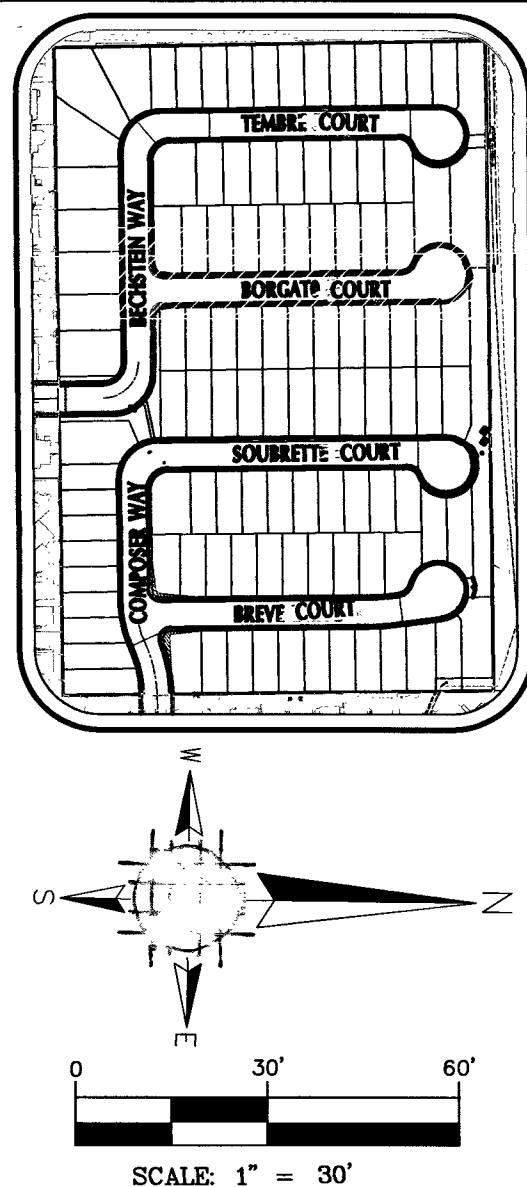
SEE SHEET PP7 FOR CONTINUATION

- CONSTRUCTION NOTES:**
- SAWCUT AND MATCH EXISTING A.C. PAVEMENT, CURB, GUTTER, AND SIDEWALK PAVEMENT. CONTRACTOR TO VERIFY ELEVATION.
 - INSTALL 2" A.C. PAVEMENT WITH 4" TYPE II AGGREGATE BASE PER SOILS REPORT AND DETAIL "1" SHEET DE2.
 - INSTALL 30" ROLL CURB & GUTTER PER CCAUSD #217.1.
 - INSTALL 5" THICK SIDEWALK PER CCAUSD #234 (WIDTH PER PLANS).
 - INSTALL 8" CONCRETE VALLEY GUTTER PER CCAUSD #228.
 - INSTALL SIDEWALK UNDER DRAIN PER CCAUSD #236.
 - INSTALL CONCRETE GUTTER PER DETAIL "2", SHEET DE2.
 - CONSTRUCT 10' TRANSITION FROM "L" CURB TO "ROLL" CURB PER DETAIL "3" SHEET DE2.
 - EXISTING ELECTRICAL TRANSFORMER TO BE RELOCATED BY CONTRACTOR.
 - INSTALL GROUTED LANDSCAPE ROCK SWALE D50=6", T=12" PER DETAIL "5" ON SHEET DE2.
 - COMMERCIAL DRIVEWAY APPROACH PER CCAUSD #224.
 - CONSTRUCT SIDEWALK RAMP PER CCAUSD #235, CASE 1 A & B=8 U.O.N.
 - INSTALL "L" TYPE CURB AND GUTTER PER CCAUSD #216.
 - INSTALL DROP INLET PER DRAINAGE STRUCTURE TABLE THIS SHEET.
 - INSTALL CLASS III RCP STORM DRAIN, SIZE, LENGTH, & MATERIAL PER PLAN.
 - LANDSCAPE AREA, SEE LANDSCAPE PLANS.
 - GRADE TO DRAIN V-DITCH 0.5' DEEP, 10:1 SS. CONTRACTOR TO SALVAGE AND REINSTALL EXISTING LANDSCAPE ROCK.
 - TRENCH BACKFILL AND AG PAVEMENT RESTORATION PER CCAUSD #503, 500.4, AND 500.5.
 - ABANDON EXISTING MANHOLES AND SEWER MAINS PER DCSWCS SECTION 3.18.1 METHOD C & 3.18.2A.
 - CONTRACTOR TO INSTALL A MINIMUM OF 4" THICK REINFORCED CONCRETE ENCASUREMENT PER DCSWCS ST DWGS SD-14.

NOTE:
SEE SHEET PP8 FOR LINE AND CURVE TABLES.

LEGEND

CENTER LINE	---
RIGHT-OF-WAY	---
PROPOSED WATER	PVC W
PROPOSED SEWER	PVC SS
EXISTING WATER	EX. WATER LINE
EXISTING SEWER	EX. SEWER LINE
EXISTING GAS	EX. GAS
PROPOSED SAWCUT	---
EXISTING EDGE PMVT	---
SANITARY SEWER	SS
WATER	WAT
PRIVATE	PVT
INVERT	INV
ELEVATION	ELEV
MANHOLE	MH



BORGATOCOURT (PUBLIC)-PROFILE VIEW

HORIZONTAL: 1"=30'
VERTICAL: 1"=3'

FOR CONTINUATION
SEE SHEET PP7

UTILITY NOTES:

- ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS), LATEST EDITION.
- WATER AND SEWER SERVICE LATERALS SHALL BE INSTALLED A MINIMUM OF FORTY-EIGHT (48) INCHES APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF TWELVE (12) INCHES ABOVE THE SEWER LATERAL (REF. UDACS 2.17.01.D).
- GATE VALVES SHALL NOT BE LOCATED IN STREET GUTTERS, VALLEY GUTTERS, OR IN DRIVEWAYS PER UDACS FOR WATER DISTRIBUTION STANDARDS SECTION 2.11.01.E.
- ALL SEWER AND STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSING AND CLEARANCES.
- ALL LOTS HAVE WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE REDUCING VALVES BE INSTALLED WHENEVER PRESSURE EXCEEDS 80 PSI.
- INSTALL PIPELINE MARKER BALLS, PER UDACS PLATE NO. 15.
- WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03.
- MAINTAIN MINIMUM 24" COVER PER UDACS 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.
- WATER MAIN JOINT DEFLECTION PER UDACS 2.07.01 AND 2.07.03.
- INSTALL PIPELINE MARKER BALLS PER UDACS PLATE NO. 15.

GENERAL NOTES

- SEE FINAL MAP FOR EXACT BEARINGS AND DISTANCES.
- CONTRACTORS SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
- ALL GRADING WORK TO CONFORM TO SOILS REPORT AS PREPARED FOR THIS PROPERTY.
- CONTRACTOR SHALL REMOVE EXCESS DEBRIS AND VERIFY WALL FOOTING ELEVATION PRIOR TO CONSTRUCTION, REPORT DISCREPANCIES TO ENGINEER IMMEDIATELY.
- CONSTRUCT RETAINING WALL, FOOTING ELEVATION AND TOP OF WALL ELEVATION PER PLAN.
- CONTRACTOR TO MAINTAIN MIN. DEPTH OF COVER ABOVE PAD FOOTINGS AND ADJACENT WALL FOOTINGS WHERE DEEP SWALES OCCUR.
- ADD 2500' TO ELEVATION TAGS SHOWN ON THIS GRADING PLAN.
- DRIVEWAY SLOPES CANNOT EXCEED MAXIMUM SLOPE OF 12.5%.

APPROVED FOR CONSTRUCTION

Stamie Dean
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135931 DATE: 02-06-19

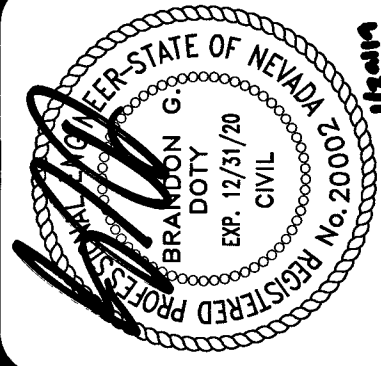
PLAN & PROFILE BORGATO COURT

**BLM 33
BY D.R. HORTON**

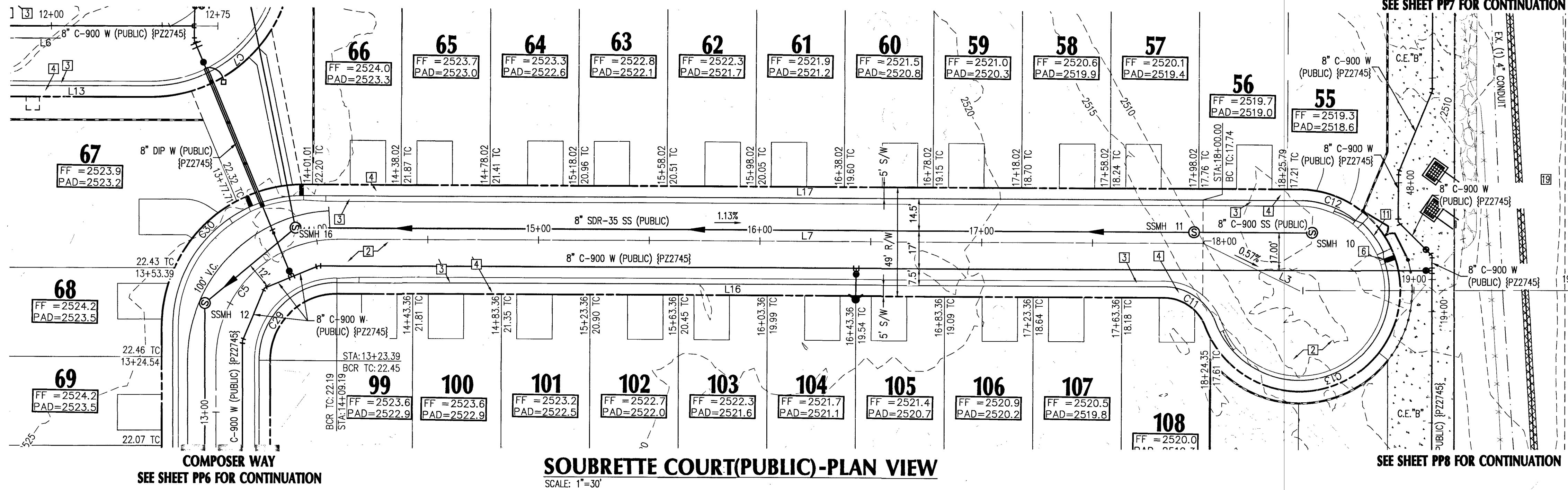
NO.	DATE	REVISIONS	DESCRIPTION

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DESIGNED BY: CW
CHECKED BY: BGD
DATE: 12/2018

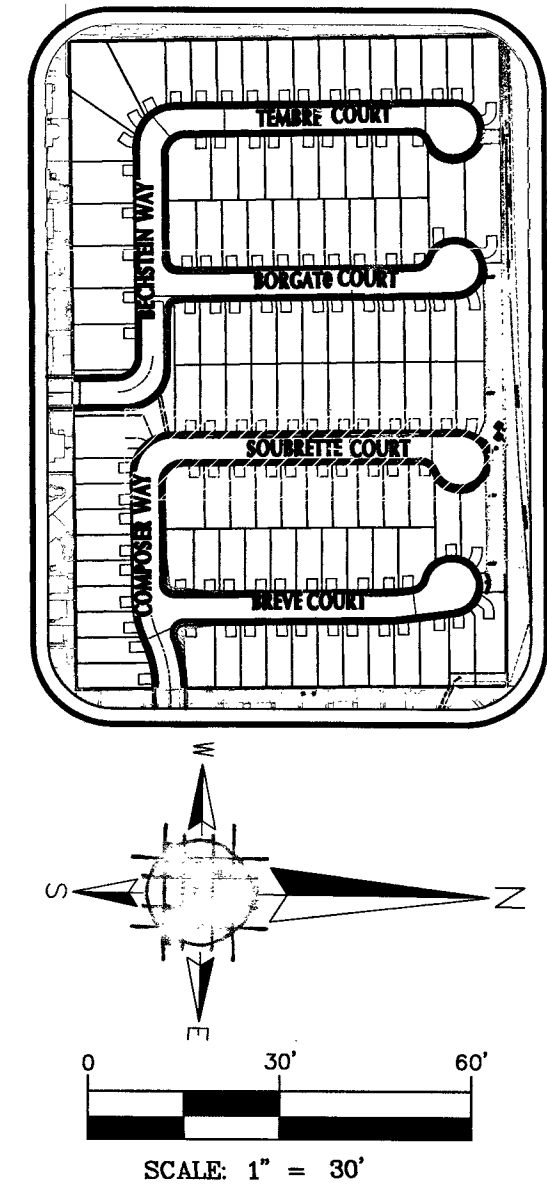
PP2
9
24



ADVANTAGE CIVIL DESIGN GROUP, LLP
2970 N. GREEN VALLEY HWY, BLDG. 4 STE. # 422
HENDERSON, NEVADA 89014
Office: 702.452.2254
Fax: 702.456.2224
Email: MAIL@ADVANTAGECIVIL-LLP.COM
CONSULTING
PLANNING



- CONSTRUCTION NOTES:**
- SAWOUT AND MATCH EXISTING A.C. PAVEMENT, CURB, GUTTER, AND SIDEWALK PAVEMENT. CONTRACTOR TO VERIFY ELEVATION.
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LEGEND

CENTER LINE	---
RIGHT-OF-WAY	---
PROPOSED WATER	PVC W
PROPOSED SEWER	PVC SS
EXISTING WATER	EX. WATER LINE
EXISTING SEWER	EX. SEWER LINE
EXISTING GAS	EX. GAS
PROPOSED SAWT	---
EXISTING EDGE PAVT	---
SANITARY SEWER	SS
WATER	WAT
PRIVATE	PVT
INVERT	INV
ELEVATION	ELEV
MANHOLE	MH

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GENERAL NOTES

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- DRIVEWAY SLOPES CANNOT EXCEED MAXIMUM SLOPE OF 12.5%.

NOTE:
LOTS 108 REQUIRE C-900 SANITARY SEWER LATERAL

SIGHT VISIBILITY NOTE:

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NOTE:

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BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

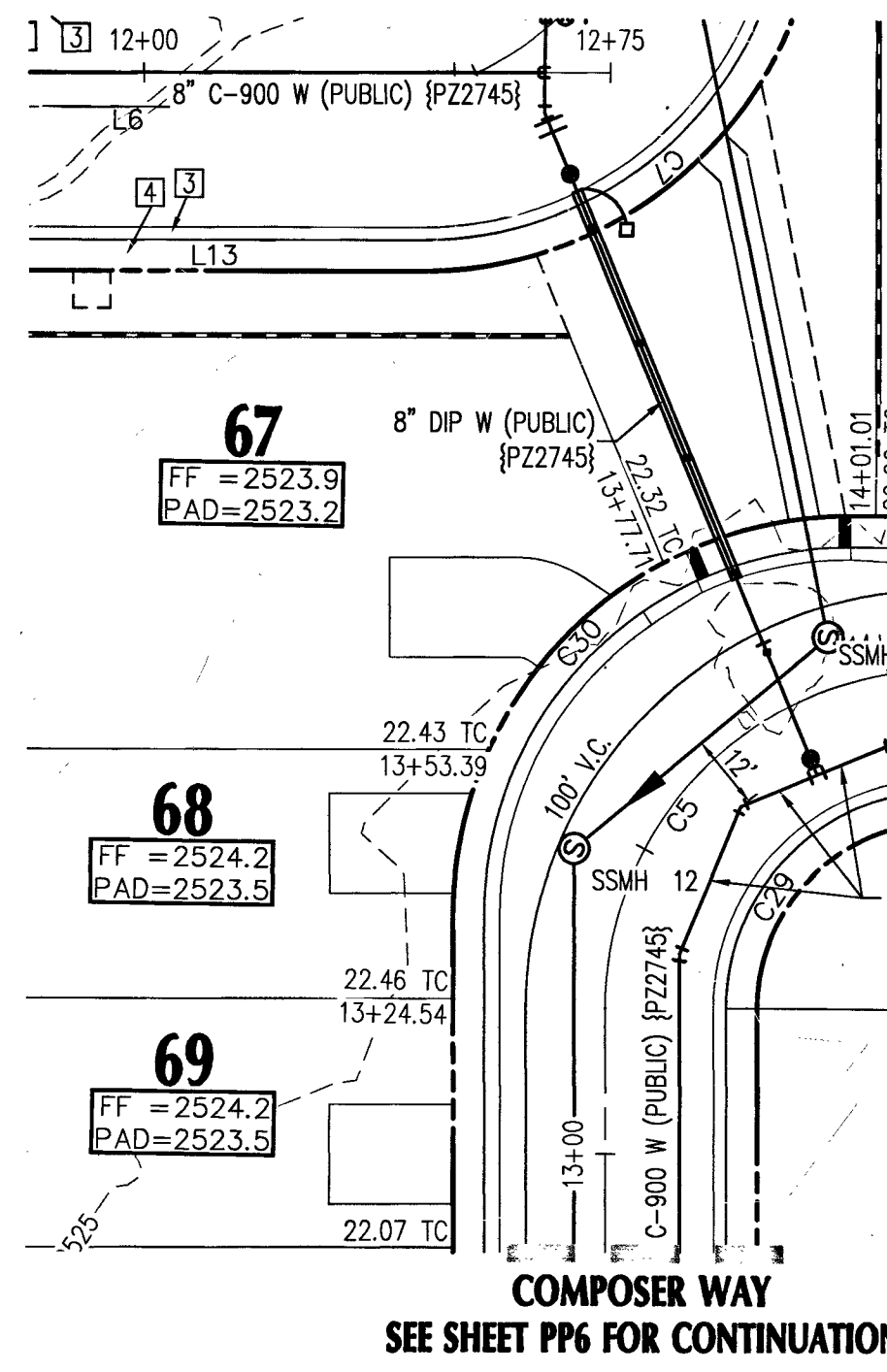
ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
CENTRAL MERIDIAN: 114°58'00" W
FALSE NORTHING: 200,000 METERS
FALSE EASTING: 100,000 METERS
STANDARD PARALLEL SCALE: 1.0001
LINEAR UNIT: US SURVEY FOOT (SFT)

BENCHMARK

CITY OF LAS VEGAS VERTICAL CONTROL POINT "OLVQO 2854" BEING A RIVET & PLATE IN TOP OF CURB AT NW CORNER OF WESTCLIFF & CIMARRON.

ELEVATION: 2551.98 FEET
777.844 METERS

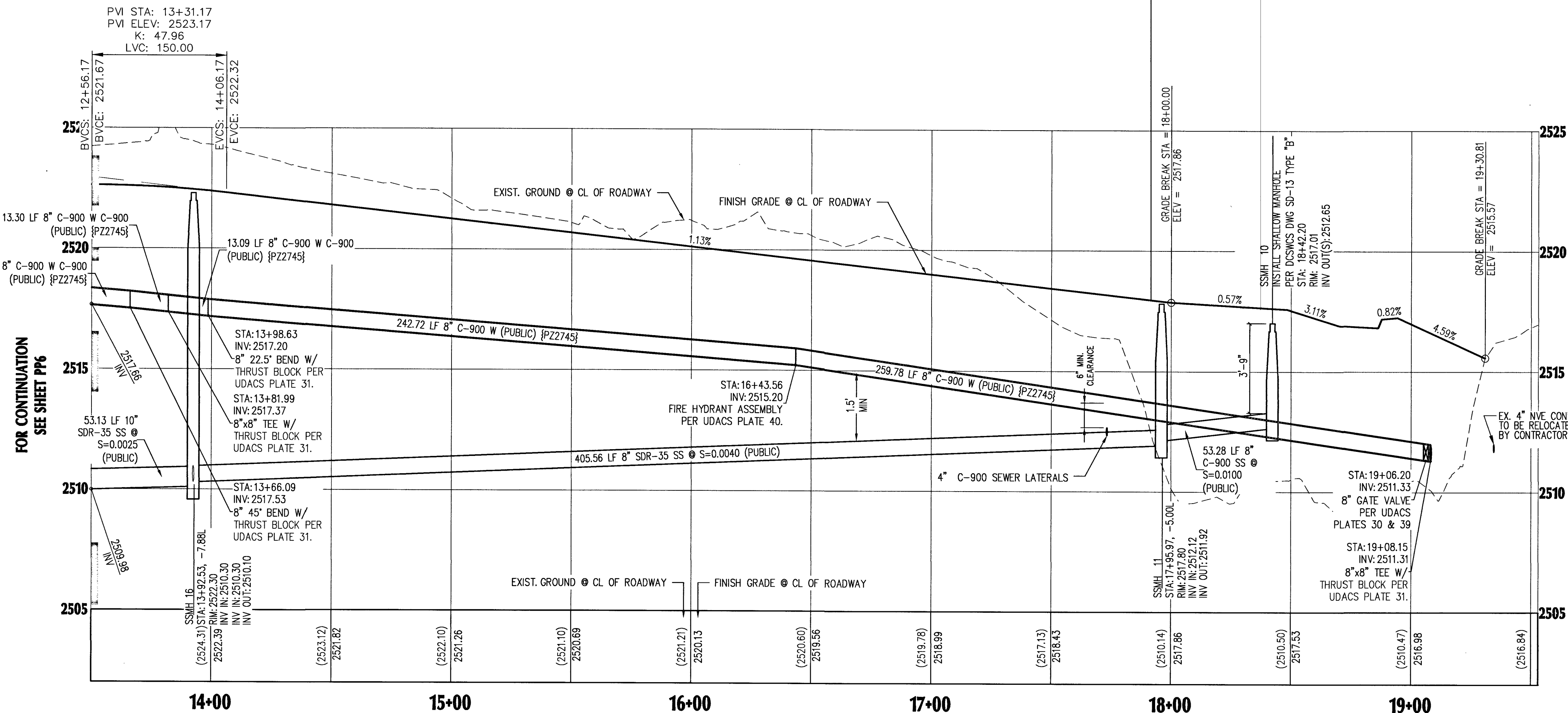
CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007) BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)



COMPOSER WAY
SEE SHEET PP6 FOR CONTINUATION

SOUBRETTE COURT(PUBLIC)-PLAN VIEW
SCALE: 1"=30'

SEE SHEET PP8 FOR CONTINUATION



SOUBRETTE COURT(PUBLIC)-PROFILE VIEW
HORIZONTAL: 1"=30'
VERTICAL: 1"=3'



Call before you Dig
UnderGround

1-702-432-5300



1-800-227-2600



APPROVED FOR CONSTRUCTION

DESIGNED BY: CW
CHECKED BY: BGD
DATE: 12/2018

L18-02380 107V5099

PLAN & PROFILE SOUBRETTE COURT

BLM 33

BY D.R. HORTON

NO.	DATE	REVISIONS
1		DESIGN
2		CHECK
3		APPROVE
4		CONSTRUCT
5		MAINTAIN
6		REPAIR
7		REPLACE
8		REMOVE
9		ALTER
10		OTHER

JOB NUMBER: 02-043
DRAWN BY: CW
DESIGNED BY: CW
CHECKED BY: BGD
DATE: 12/2018

PP3 10 24

PROJ# 135931A Q5:136-28-SE

FAST
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1-702-432-5300
SYSTEM OF TRANSPORTATION

Call before you Dig
Call 811
1-800-227-2600

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
CALL BEFORE YOU DIG
1-702-227-2929

BASIS OF BEARING
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.
DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0
ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
CENTRAL MERIDIAN: 114°58'00" W
FALSE NORTHING: 200,000 METERS
FALSE EASTING: 100,000 METERS
STANDARD PARALLEL SCALE: 1.0001
LINEAR UNIT: US SURVEY FOOT (SFT)

BENCHMARK
CITY OF LAS VEGAS VERTICAL CONTROL POINT "Q1000 2854" BEING A RIVET & PLATE IN TOP OF CURB AT NW CORNER OF WESTCLIFF & CIMARRON.
ELEVATION: 2551.98 FEET
777.844 METERS
CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007) BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

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NOTE:
LOTS 89-93 AND LOTS 109-110 REQUIRE C-900 SANITARY SEWER LATERAL

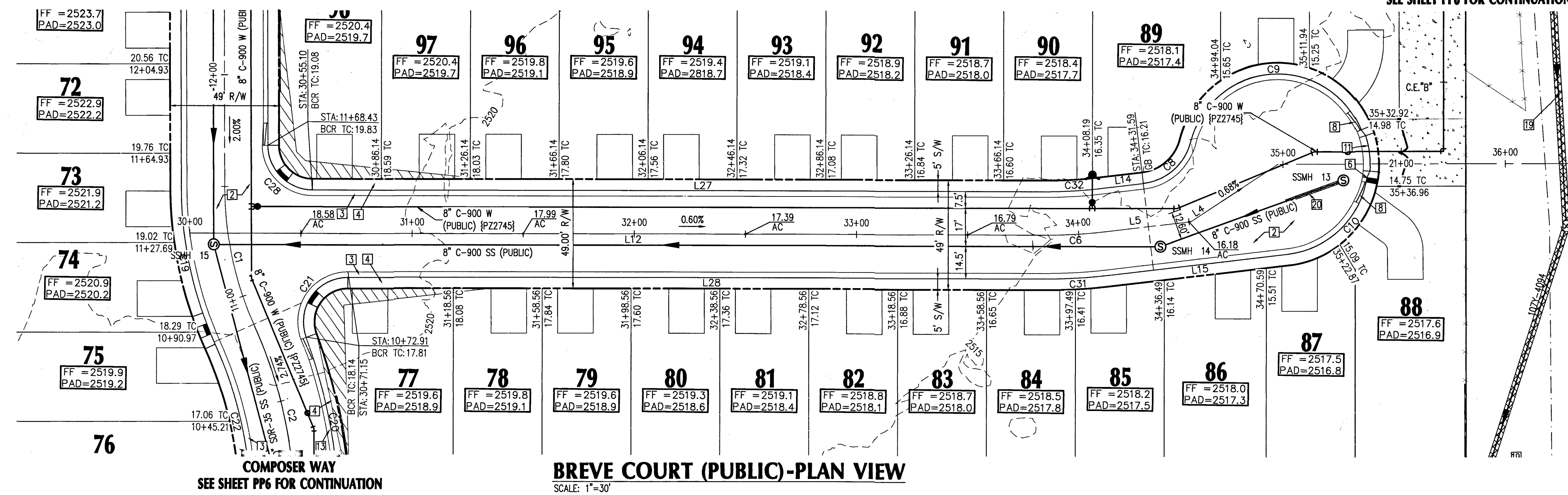
APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135931 DATE: 2-6-19

L18-02380 107Y5099

JOB NUMBER: 02-043
DRAWN BY: CW
DESIGNED BY: CW
CHECKED BY: BGD
DATE: 12/2018

PP4 11 24

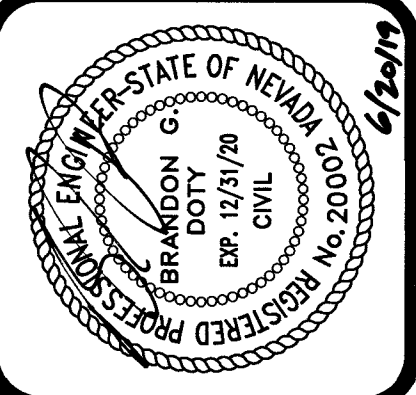
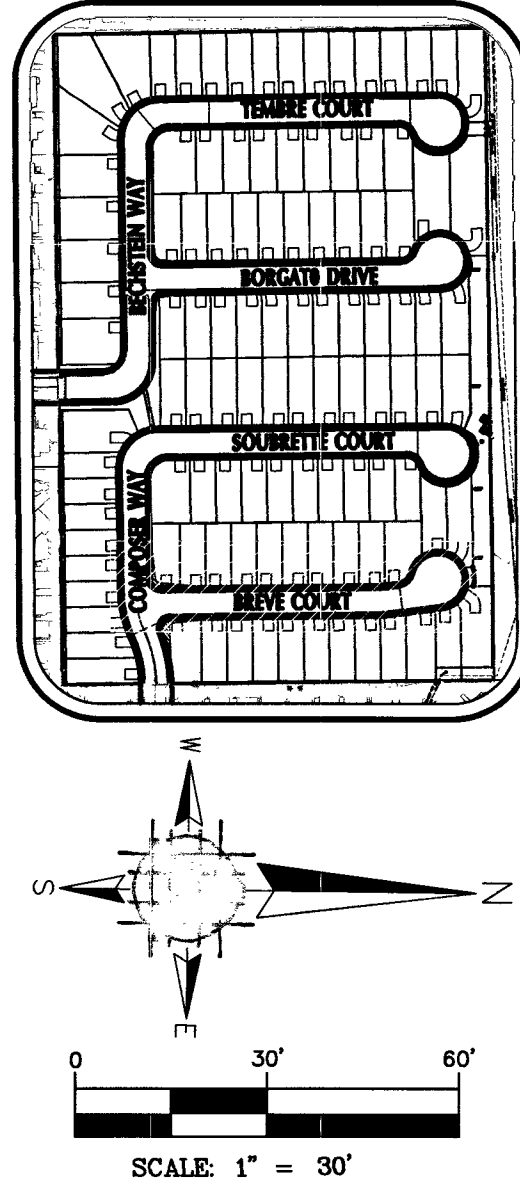
PROJECT: 135931A Q3:18-28-SE



- CONSTRUCTION NOTES:**
1. SAWCUT AND MATCH EXISTING A.C. PAVEMENT, CURB, GUTTER, AND SIDEWALK PAVEMENT. CONTRACTOR TO VERIFY ELEVATION.
 2. PER SOILS REPORT AND DETAIL "1" SHEET DE2.
 3. INSTALL 30" ROLL CURB & GUTTER PER CCAUSD #217.1.
 4. INSTALL 5" THICK SIDEWALK PER CCAUSD #234 (WIDTH PER PLANS).
 5. INSTALL 8" CONCRETE VALLEY GUTTER PER CCAUSD #228.
 6. INSTALL SIDEWALK UNDER DRAIN PER CCAUSD #236.
 7. INSTALL CONCRETE GUTTER PER DETAIL "2", SHEET DE2.
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 15. INSTALL CLASS III RCP STORM DRAIN, SIZE, LENGTH, & MATERIAL PER PLAN.
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 17. GRADE TO DRAIN V-DITCH 0.5' DEEP, 10:1 SS. CONTRACTOR TO SALVAGE AND REINSTALL EXISTING LANDSCAPE ROCK.
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 20. CONTRACTOR TO INSTALL A MINIMUM OF 4" THICK REINFORCED CONCRETE ENCASEMENT PER DCSWCS ST DWGS SD-14.

NOTE:
SEE SHEET PP6 FOR LINE AND CURVE TABLES.

- LEGEND**
- CENTER LINE
 - RIGHT-OF-WAY
 - PROPOSED WATER
 - PROPOSED SEWER
 - EXISTING WATER
 - EXISTING SEWER
 - EXISTING GAS
 - PROPOSED SAWCUT
 - EXISTING EDGE PWMT
 - SANITARY SEWER
 - WATER
 - PRIVATE
 - INVERT
 - ELEVATION
 - MANHOLE

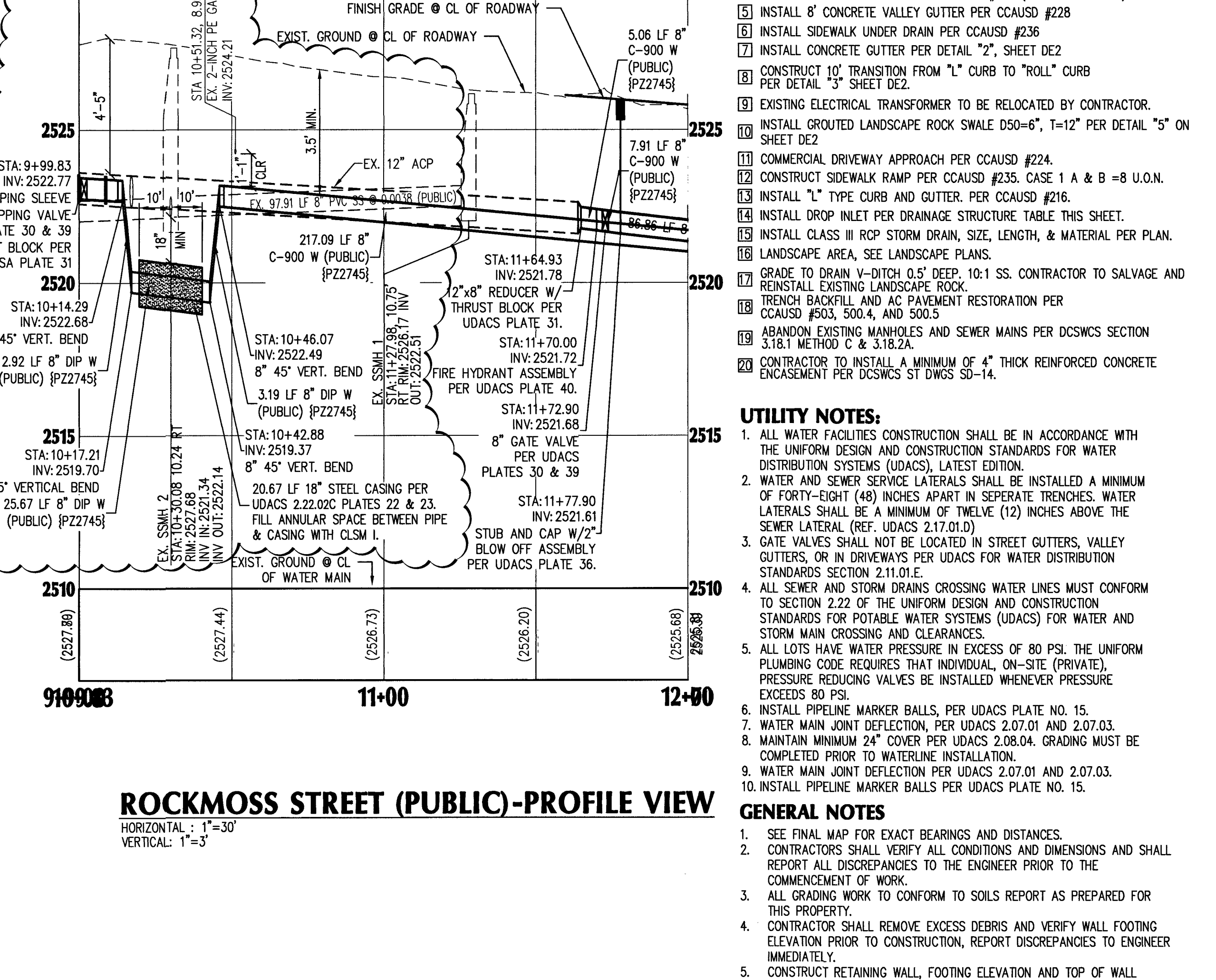
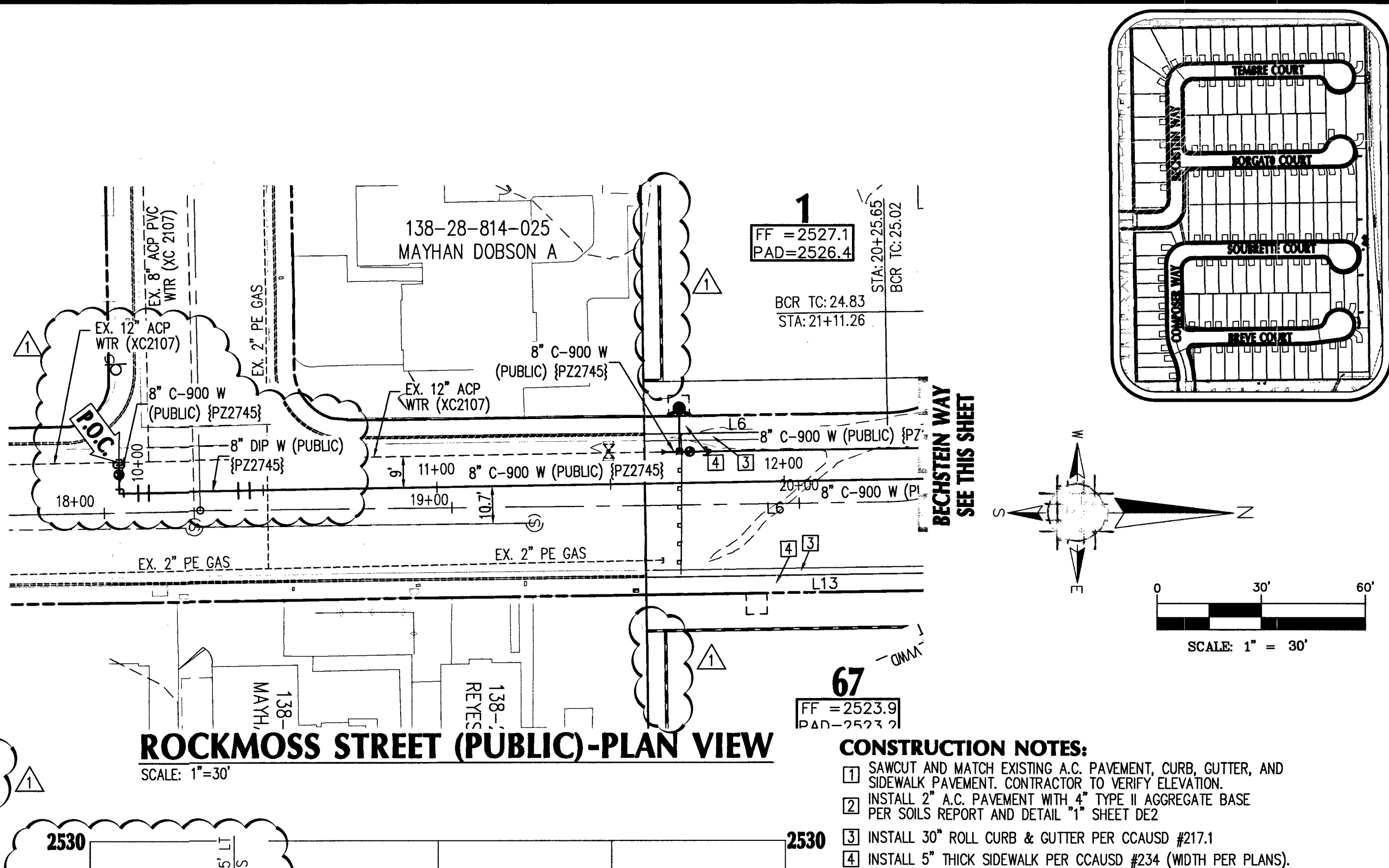
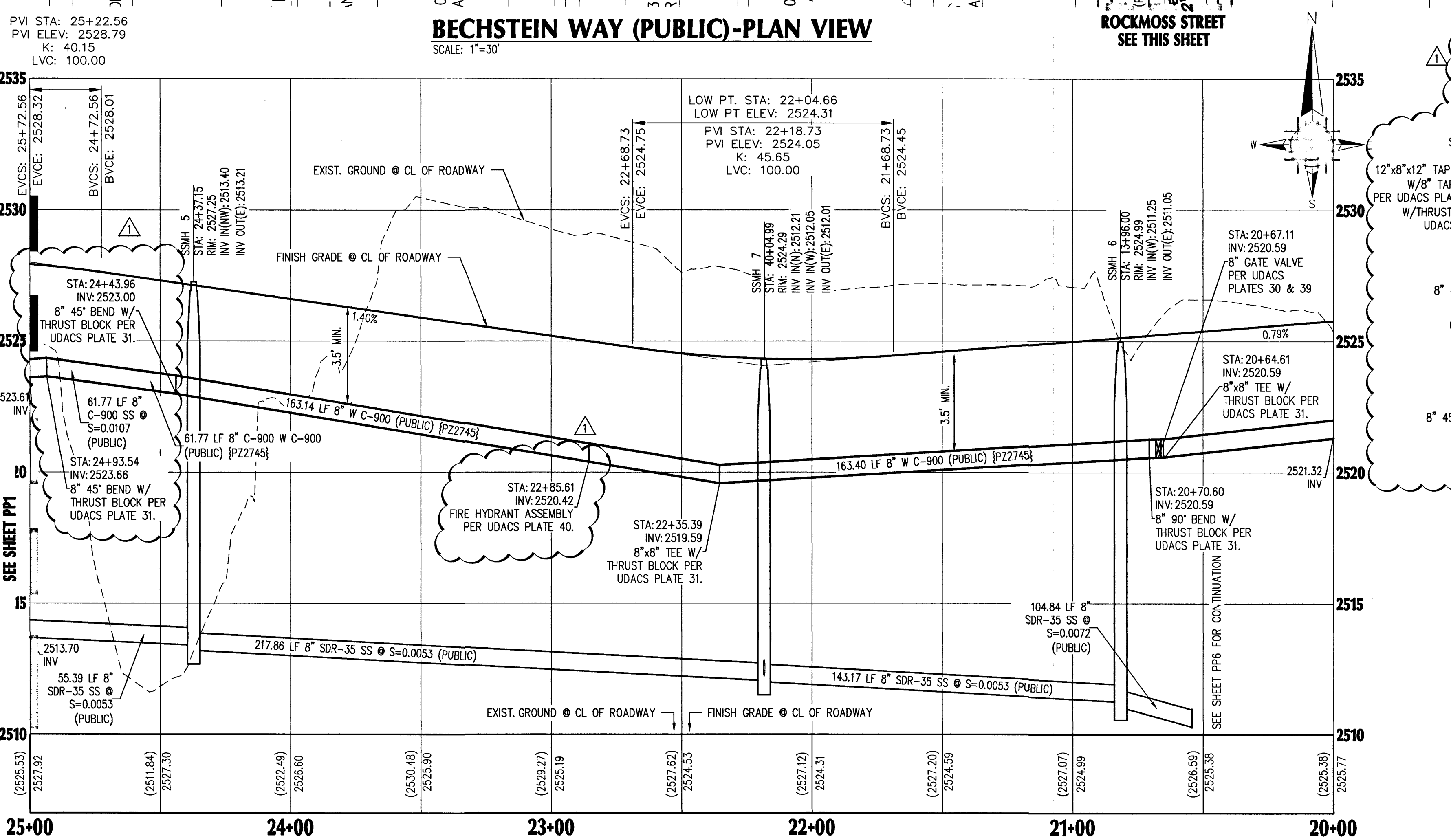
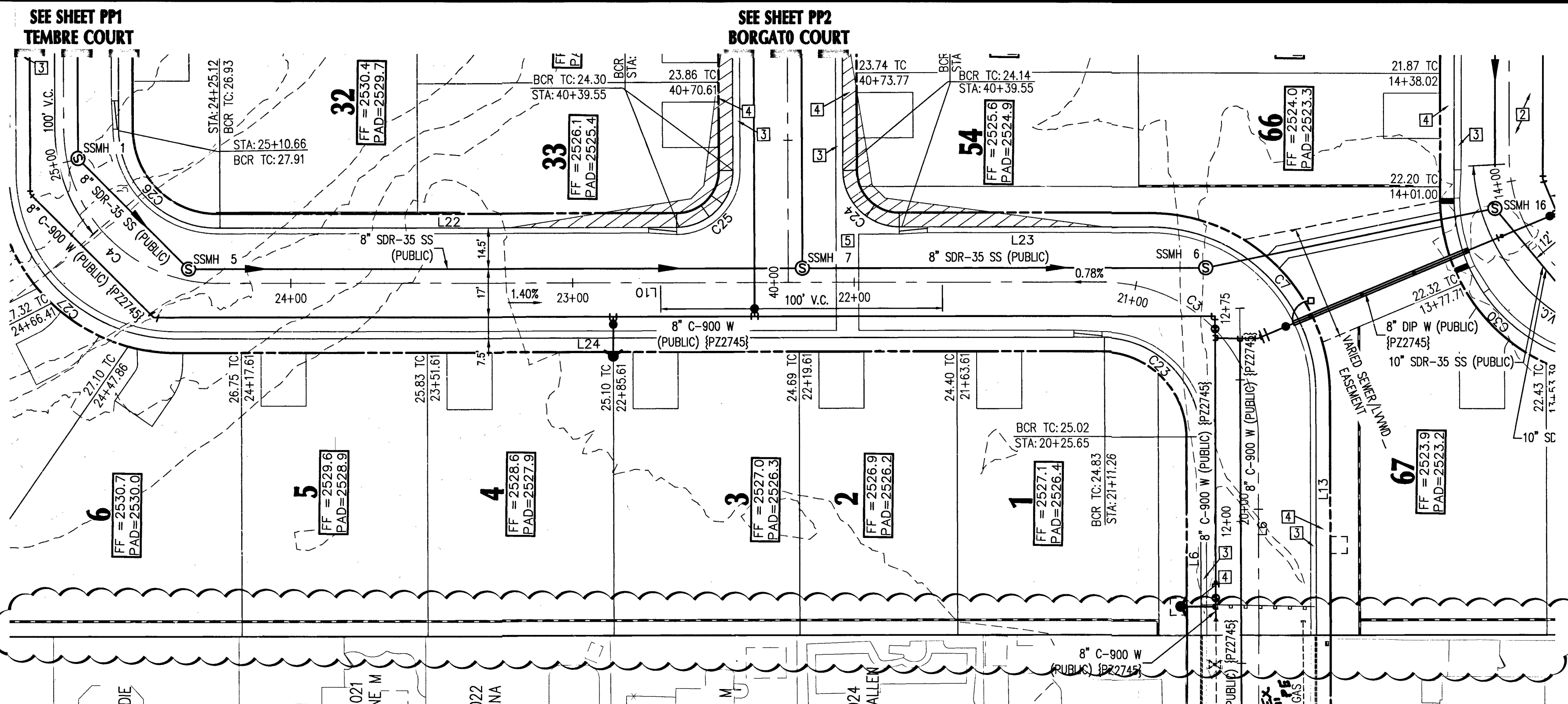


PLAN & PROFILE BREVE COURT
BLM 33
BY D.R. HORTON

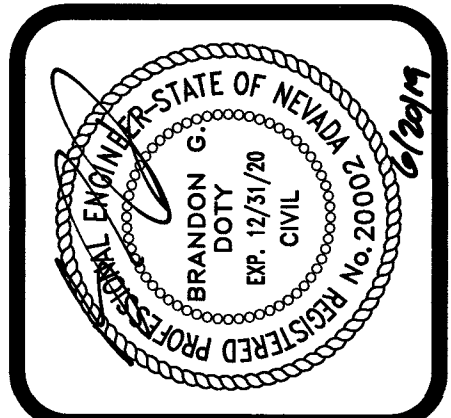
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 3. GATE VALVES SHALL NOT BE LOCATED IN STREET GUTTERS, VALLEY GUTTERS, OR IN DRIVEWAYS PER UDACS FOR WATER DISTRIBUTION STANDARDS SECTION 2.11.01.E.
 4. ALL SEWER AND STORM DRAIN CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSING AND CLEARANCES.
 5. ALL LOTS HAVE WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE REDUCING VALVES BE INSTALLED WHENEVER PRESSURE EXCEEDS 80 PSI.
 6. INSTALL PIPELINE MARKER BALLS, PER UDACS PLATE NO. 15.
 7. WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03.
 8. MAINTAIN MINIMUM 24" COVER PER UDACS 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.
 9. WATER MAIN JOINT DEFLECTION PER UDACS 2.07.01 AND 2.07.03.
 10. INSTALL PIPELINE MARKER BALLS PER UDACS PLATE NO. 15.

- GENERAL NOTES**
1. SEE FINAL MAP FOR EXACT BEARINGS AND DISTANCES.
 2. CONTRACTORS SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
 3. ALL GRADING WORK TO CONFORM TO SOILS REPORT AS PREPARED FOR THIS PROPERTY.
 4. CONTRACTOR SHALL REMOVE EXCESS DEBRIS AND VERIFY WALL FOOTING ELEVATION PRIOR TO CONSTRUCTION, REPORT DISCREPANCIES TO ENGINEER IMMEDIATELY.
 5. CONSTRUCT RETAINING WALL, FOOTING ELEVATION AND TOP OF WALL ELEVATION PER PLAN.
 6. CONTRACTOR TO MAINTAIN MIN. DEPTH OF COVER ABOVE PAD FOOTINGS AND ADJACENT WALL FOOTINGS WHERE DEEP SWALES OCCUR.
 7. ADD 2500' TO ELEVATION TAGS SHOWN ON THIS GRADING PLAN.
 8. DRIVEWAY SLOPES CANNOT EXCEED MAXIMUM SLOPE OF 12.5%.

NO.	DATE	REVISIONS	DESCRIPTION
1	6/2/19	ADDED WATER CROSSING PER UDACS SECTION 2.22.02.C	
2		ADDED NOTE TO REMOVE EX. SEWER SUB. & SWG PLANS	
3		UPDATE STATIONS FOR WATERMAIN FITTINGS	



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 ADVANTAGE CIVIL
 CIVIL ENGINEERING
 PLANNING



PLAN & PROFILE BECHSTEIN WAY
BLM 33
BY D.R. HORTON

NO.	DATE	REVISIONS	DESCRIPTION
1	6/27/19	ADDED	WATER CROSSING PER UDACS SECTION 2.22.02.C
2		ADDED	NOTE TO REMOVE EX. SEWER STUB, & SING PLANS
3		ADDED	UPDATE STATIONS FOR WATERMAIN FITTINGS

JOB NUMBER: 02-043
 DRAWN BY: CW
 DESIGNED BY: CW
 CHECKED BY: BGD
 DATE: 12/2018

PP5 12 24

FAST
 Call before you Dig
 1-702-432-5300
 1-800-227-2600
 1-702-227-2929

BASIS OF BEARING
 GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS). LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983. SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.
 DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0
 ZONE: LAS VEGAS ZONE
 STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
 CENTRAL MERIDIAN: 114°58'00" W
 FALSE NORTHING: 200,000 METERS
 FALSE EASTING: 100,000 METERS
 STANDARD PARALLEL SCALE: 1.0001
 LINEAR UNIT: US SURVEY FOOT (ST)

BENCHMARK
 CITY OF LAS VEGAS VERTICAL CONTROL POINT "OLV00 2854" BEING A RIVET & PLATE IN TOP OF CURB AT NW CORNER OF WESTCLIFF & CIMARRON.
 ELEVATION: 2551.98 FEET
 777.844 METERS
 CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007) BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

WATER MAIN JOINT DEFLECTION (PVC 4" 24")
 PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MINIMUM RADIUS OF CURVATURE OF 1,150 FEET PER UDACS 2.07.01 AND 2.07.02.
 FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.

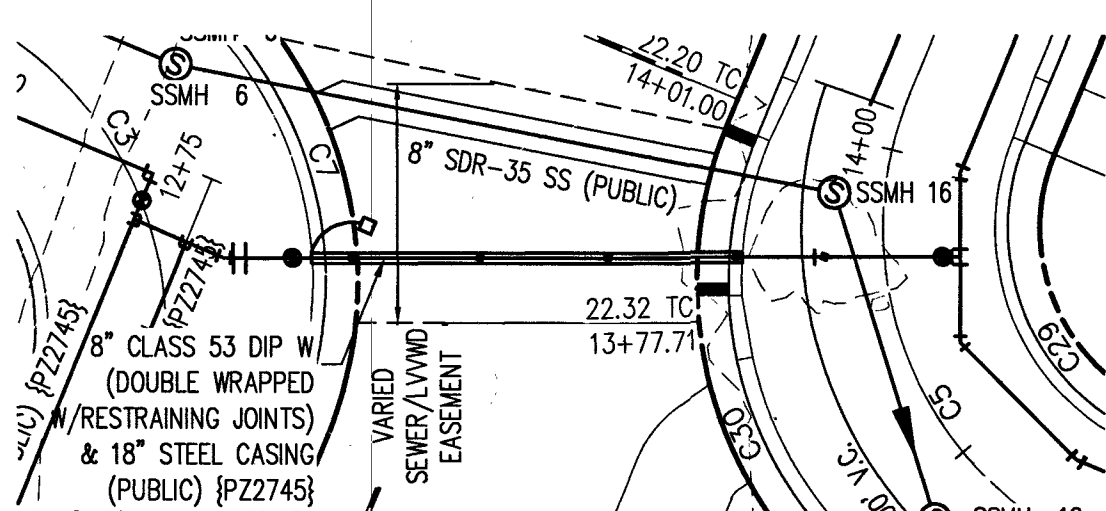
SIGHT VISIBILITY NOTE:
 NO WALLS, FENCES, TREES, SHRUBS UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 14 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTING, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE.

NOTE:
 ADVANTAGE CIVIL DESIGN GROUP ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITIES SHOWN OR NOT SHOWN. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM RECORD INFORMATION AND ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY BOTH THE HORIZONTAL AND VERTICAL LOCATION OF ALL RELEVANT UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. IF A CONFLICT OR DISCREPANCY IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IMMEDIATELY.

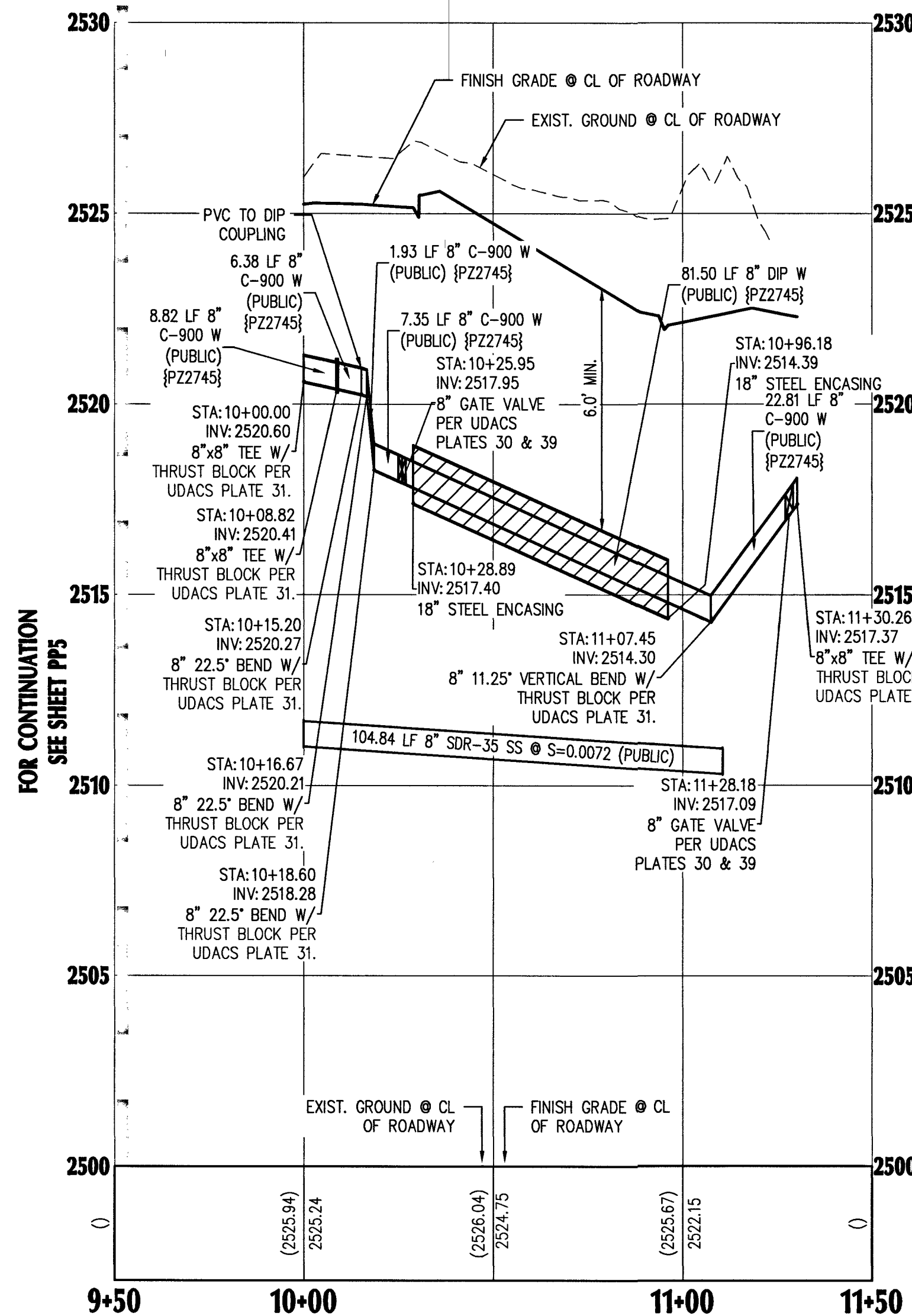
NOTE:
 SEE SHEET PP8 FOR LINE AND CURVE TABLES.

APPROVED FOR CONSTRUCTION
 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
 PROJECT NO. 135931 DATE: 2-6-19

PROJ: 135931 QS: 135-28-3E



30' LVVWD EASEMENT PLAN
SCALE: 1"=30'



30' LVVWD EASEMENT PROFILE VIEW

HORIZONTAL: 1"=30'
VERTICAL: 1"=3'

NOTE:
SEE SHEET PP8 FOR LINE AND CURVE TABLES.

BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0
ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
FALSE NORTHING: 200,000 METERS
FALSE EASTING: 100,000 METERS
STANDARD PARALLEL SCALE: 1.0001
LINEAR UNIT: US SURVEY FOOT (SFT)

BENCHMARK

NOTE:

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SIGHT VISIBILITY NOTE:

NO WALLS, FENCES, TREES, SHRUBS UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTING, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVED STREET SURFACE.

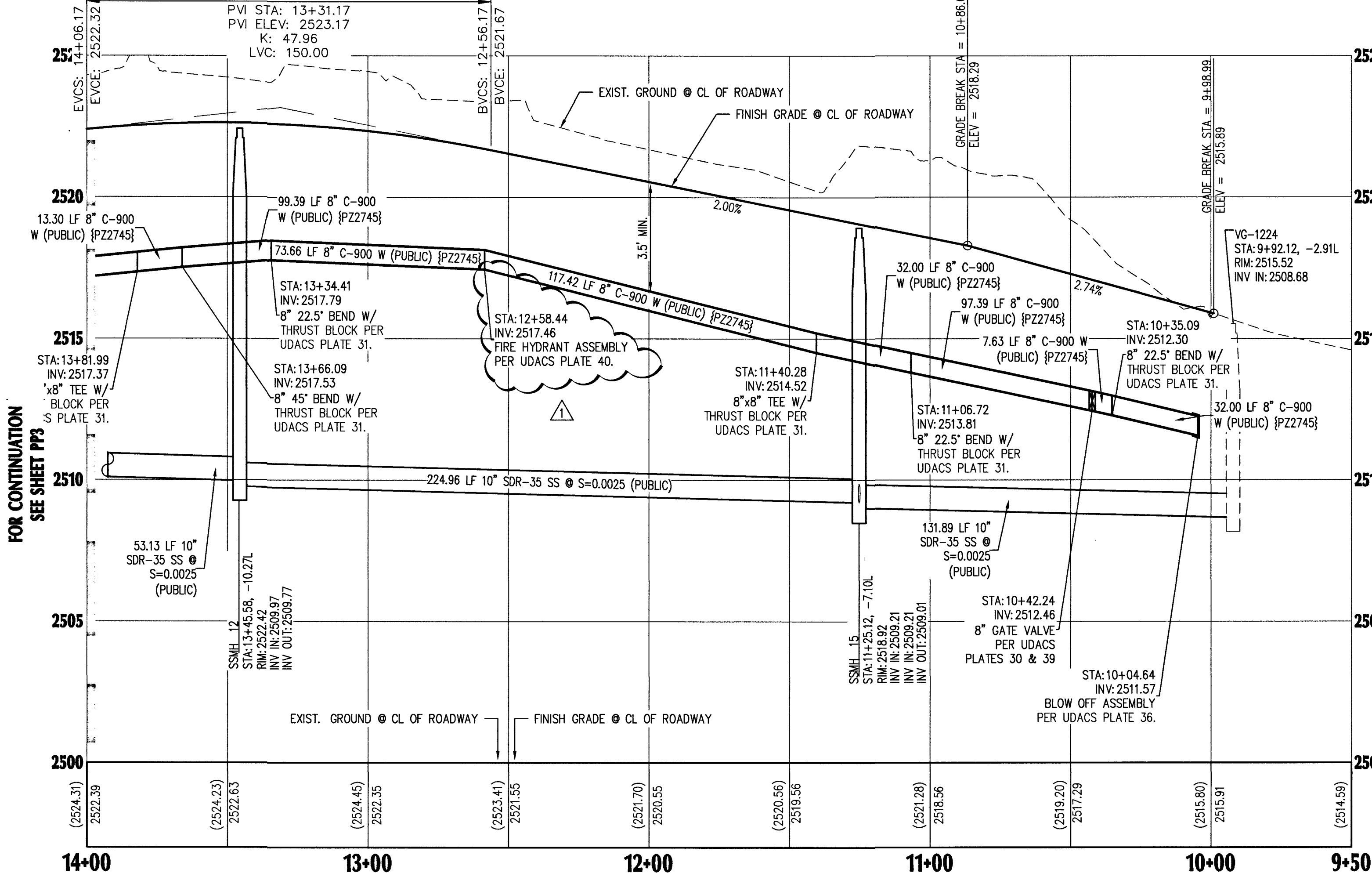
SOUTHWEST GAS CORPORATION

DATE

* THE DATA CONTAINED HEREIN IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. SOUTHWEST GAS CORPORATION MAKES NO WARRANTIES AND DOES NOT GUARANTEE THE CORRECTNESS, COMPLETENESS, OR USEFULNESS FOR ANY LOSS OR DAMAGE HOWEVER ARISING FROM THE USE OR RELIANCE ON THE DATA PROVIDED. THE FIELD LOCATION AND DEPTH OF ALL SOUTHWEST GAS FACILITIES SHOULD BE VERIFIED.

COMPOSER WAY (PUBLIC)-PLAN VIEW

SCALE: 1"=30'



COMPOSER WAY (PUBLIC)-PROFILE VIEW

HORIZONTAL: 1"=30'
VERTICAL: 1"=3'

CONSTRUCTION NOTES:

1. SAWCUT AND MATCH EXISTING A.C. PAVEMENT, CURB, GUTTER, AND SIDEWALK PAVEMENT. CONTRACTOR TO VERIFY ELEVATION.
2. INSTALL 2" A.C. PAVEMENT WITH 4" TYPE II AGGREGATE BASE PER SOILS REPORT AND DETAIL "1" SHEET DE2.
3. INSTALL 30" ROLL CURB & GUTTER PER CCAUSD #217.1.
4. INSTALL 5" THICK SIDEWALK PER CCAUSD #234 (WIDTH PER PLANS).
5. INSTALL 8" CONCRETE VALLEY GUTTER PER CCAUSD #228.
6. INSTALL SIDEWALK UNDER DRAIN PER CCAUSD #236.
7. INSTALL CONCRETE GUTTER PER DETAIL "2", SHEET DE2.
8. CONSTRUCT 10" TRANSITION FROM "L" CURB TO "ROLL" CURB PER DETAIL "3" SHEET DE2.
9. EXISTING ELECTRICAL TRANSFORMER TO BE RELOCATED BY CONTRACTOR.
10. INSTALL GROUTED LANDSCAPE ROCK SWALE D50-6", T=12" PER DETAIL "5" ON SHEET DE2.
11. COMMERCIAL DRIVEWAY APPROACH PER CCAUSD #224.
12. CONSTRUCT SIDEWALK RAMP PER CCAUSD #235, CASE 1 A & B U.O.N.
13. INSTALL "L" TYPE CURB AND GUTTER, PER CCAUSD #216.
14. INSTALL DROP INLET PER DRAINAGE STRUCTURE TABLE THIS SHEET.
15. INSTALL CLASS III ROP STORM DRAIN, SIZE, LENGTH, & MATERIAL PER PLAN.
16. LANDSCAPE AREA, SEE LANDSCAPE PLANS.
17. GRADE TO DRAIN V-DITCH 0.5' DEEP, 10:1 SS. CONTRACTOR TO SALVAGE AND REINSTALL EXISTING LANDSCAPE ROCK.
18. TRENCH BACKFILL AND AC PAVEMENT RESTORATION PER CCAUSD #503, 500.4, AND 500.5.
19. ABANDON EXISTING MANHOLES AND SEWER MAINS PER DCSWCS SECTION 3.18.1 METHOD C & 3.18.2A.
20. CONTRACTOR TO INSTALL A MINIMUM OF 4" THICK REINFORCED CONCRETE ENCASEMENT PER DCSWCS ST DWGS SD-14.

UTILITY NOTES:

1. ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS), LATEST EDITION.
2. WATER AND SEWER SERVICE LATERALS SHALL BE INSTALLED A MINIMUM OF FORTY-EIGHT (48) INCHES APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF TWELVE (12) INCHES ABOVE THE SEWER LATERAL (REF. UDACS 2.17.01.D).
3. GATE VALVES SHALL NOT BE LOCATED IN STREET GUTTERS, VALLEY GUTTERS, OR IN DRIVEWAYS PER UDACS FOR WATER DISTRIBUTION STANDARDS SECTION 2.11.01.E.
4. ALL SEWER AND STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSING AND CLEARANCES.
5. ALL LOTS HAVE WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE REDUCING VALVES BE INSTALLED WHENEVER PRESSURE EXCEEDS 80 PSI.
6. INSTALL PIPELINE MARKER BALLS, PER UDACS PLATE NO. 15.
7. WATER MAIN JOINT DEFLECTION PER UDACS 2.07.01 AND 2.07.03.
8. MAINTAIN MINIMUM 24" COVER PER UDACS 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.
9. WATER MAIN JOINT DEFLECTION PER UDACS 2.07.01 AND 2.07.03.
10. INSTALL PIPELINE MARKER BALLS PER UDACS PLATE NO. 15.

GENERAL NOTES

1. SEE FINAL MAP FOR EXACT BEARINGS AND DISTANCES.
2. CONTRACTORS SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
3. ALL GRADING WORK TO CONFORM TO SOILS REPORT AS PREPARED FOR THIS PROPERTY.
4. CONTRACTOR SHALL REMOVE EXCESS DEBRIS AND VERIFY WALL FOOTING ELEVATION PRIOR TO CONSTRUCTION. REPORT DISCREPANCIES TO ENGINEER IMMEDIATELY.
5. CONSTRUCT RETAINING WALL, FOOTING ELEVATION AND TOP OF WALL ELEVATION PER PLAN.
6. CONTRACTOR TO MAINTAIN MIN. DEPTH OF COVER ABOVE PAD FOOTINGS AND ADJACENT WALL FOOTINGS WHERE DEEP SWALES OCCUR.
7. ADD 2500' TO ELEVATION TAGS SHOWN ON THIS GRADING PLAN.
8. DRIVEWAY SLOPES CANNOT EXCEED MAXIMUM SLOPE OF 12.5%.

APPROVED FOR CONSTRUCTION

DESIGNED BY: D. SHADY 7/8/19
PROJECT NO.: 135931 DATE: 2-6-19

L18-02380

107Y5099

PLAN & PROFILE COMPOSER WAY

BLM 33

BY D.R. HORTON

NO.	DATE	REVISIONS	DESCRIPTION
1	6/7/19	ADDED WATER CROSSING PER UDACS SECTION 2.22.02.C	
2		ADDED NOTE TO REMOVE EX. SEWER STUB, & SWG PLANS	
3		UPDATE STATIONS FOR WATERMAIN FITTINGS	

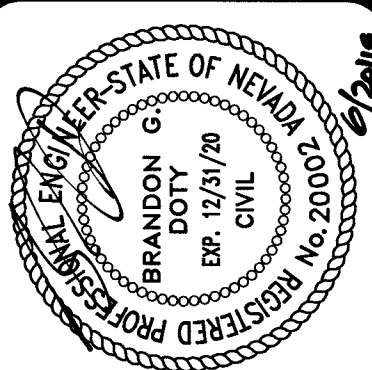
JOB NUMBER: 02-043
DRAWN BY: CW
DESIGNED BY: D. SHADY
CHECKED BY: BGD
DATE: 12/20/18

PP6

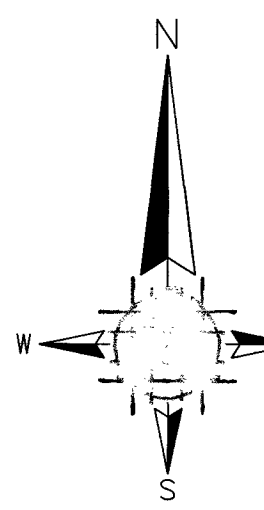
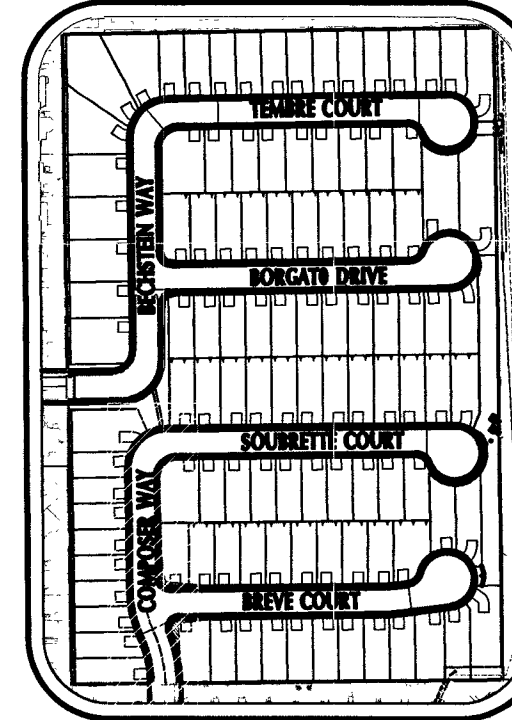
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24

PROJ.#: 135931A QS: 138-28-SE



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CONSULTING
CIVIL ENGINEERING



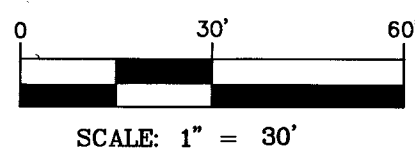
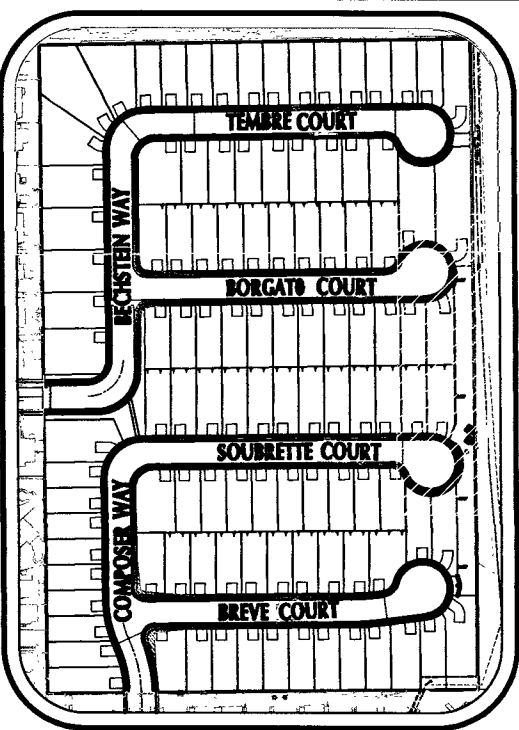
SCALE: 1" = 30'



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- 1 SAWCUT AND MATCH EXISTING A.C. PAVEMENT, CURB, GUTTER, AND SIDEWALK PAVEMENT. CONTRACTOR TO VERIFY ELEVATION.
- 2 INSTALL 2" A.C. PAVEMENT WITH 4" TYPE II AGGREGATE BASE PER SOLUS REPORT AND DETAIL "1", SHEET D62
- 3 INSTALL 30" ROLL CURB & GUTTER PER CCAUSD #217.1
- 4 INSTALL 5" THICK SIDEWALK PER CCAUSD #234 (WIDTH PER PLANS).
- 5 INSTALL 8" CONCRETE VALLEY GUTTER PER CCAUSD #228
- 6 INSTALL SIDEWALK UNDER DRAIN PER CCAUSD #236
- 7 INSTALL CONCRETE GUTTER PER DETAIL "2", SHEET D62
- 8 CONSTRUCT 10' TRANSITION FROM "L" CURB TO "ROLL" CURB PER DETAIL "3" SHEET D62.
- 9 EXISTING ELECTRICAL TRANSFORMER TO BE RELOCATED BY CONTRACTOR.
- 10 INSTALL GROUTED LANDSCAPE ROCK SWALE D50=6", T=12" PER DETAIL "5" ON SHEET D62
- 11 COMMERCIAL DRIVEWAY APPROACH PER CCAUSD #224.
- 12 CONSTRUCT SIDEWALK RAMP PER CCAUSD #235. CASE 1 A & B = 8 U.O.N.
- 13 INSTALL "L" TYPE CURB AND GUTTER. PER CCAUSD #216.
- 14 INSTALL DROP INLET PER DRAINAGE STRUCTURE TABLE THIS SHEET.
- 15 INSTALL CLASS III ROP STORM DRAIN, SIZE, LENGTH, & MATERIAL PER PLAN.
- 16 LANDSCAPE AREA, SEE LANDSCAPE PLANS.
- 17 GRADE TO DRAIN V-DITCH 05" DEEP, 10" SS. CONTRACTOR TO SALVAGE AND REINSTALL EXISTING LANDSCAPE RESTORATION.
- 18 TRENCH BACKFILL AND AC PAVEMENT RECONSTRUCTION PER CCAUSD #503, 500.4, AND 500.5
- 19 ABANDON EXISTING MANHOLES AND SEWER MAINS PER DCSWCS SECTION 5.18.1 METHOD C & D
- 20 CONTRACTOR TO INSTALL A MINIMUM OF 4" THICK REINFORCED CONCRETE ENCASEMENT PER DCSWCS ST DWGS 50-14.

SEE SHEET PP8 FOR LINE AND CURVE TABLES



CENTER LINE	— — — — —
RIGHT-OF-WAY	=====
PROPOSED WATER	PVC W
PROPOSED SEWER	PVC SS
EXISTING WATER	EX. WATER LINE
EXISTING SEWER	EX. SEWER LINE
EXISTING GAS	EX. GAS
PROPOSED SAWCUT	~~~~~
EXISTING EDGE PVMT	≡≡≡ — — —
SANITARY SEWER	SS
WATER	WAT
PRIVATE	PVT
INVERT	INV
ELEVATION	ELEV
MANHOLE	MH

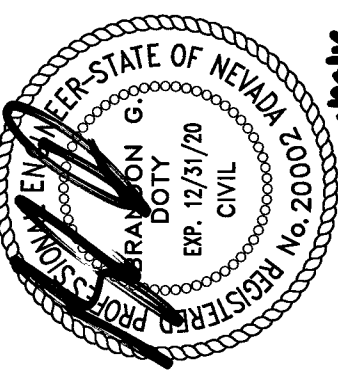
1. ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS), LATEST EDITION.
2. WATER AND SEWER SERVICE LATERALS SHALL BE INSTALLED A MINIMUM OF FORTY FEET (40') FROM ANY EXISTING UTILITY TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF TWELVE (12) INCHES ABOVE THE SEWER LATERAL. (REF. UDACS 2.17.01.D)
3. GATE VALVES SHALL NOT BE LOCATED IN STREET GUTTERS, VALLEY GUTTERS, OR IN DRIVEWAYS PER UDACS FOR WATER DISTRIBUTION STANDARDS SECTION 2.22.01.
4. ALL SEWER AND STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22.2 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSING AND CLEARANCES.
5. ALL LOTS HAVE WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES EACH INDIVIDUAL, ON-SITE (PRIVATE) PRESSURE REDUCING VALVE BE INSTALLED WHENEVER PRESSURE EXCEEDS 80 PSI.
6. INSTALL PIPELINE MARKER BALLS, PER UDACS PLATE NO. 15.
7. MAINTAIN MAIN GUT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03.
8. MAINTAIN MAINMAN 24" COVER PER UDACS 2.08.04. GRADING MUST BE COMPLETED PRIOR TO MAINMAN COVER INSTALLATION.
9. WATER MAIN GUT DEFLECTION PER UDACS 2.07.01 AND 2.07.03.
10. INSTALL PIPELINE MARKER BALLS PER UDACS PLATE NO. 15.

1. SEE FINAL MAP FOR EXACT BEARINGS AND DISTANCES.
2. CONTRACTORS SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
3. ALL GRADING WORK TO CONFORM TO SOILS REPORT AS PREPARED FOR THIS PROPERTY.
4. CONTRACTOR SHALL REMOVE EXCESS DEBRIS AND VERIFY WALL FOOTING ELEVATION PRIOR TO CONSTRUCTION, REPORT DISCREPANCIES TO ENGINEER IMMEDIATELY.
5. CONTRACT RETAINING WALL, FOOTING ELEVATION AND TOP OF WALL ELEVATION PER PLAN.
6. CONTRACTOR TO MAINTAIN MIN. DEPTH OF COVER ABOVE PAD FOOTINGS AND ADJACENT WALL FOOTINGS WHERE DEEP SWALES OCCUR.
7. ADD 2500' TO ELEVATION TAGS SHOWN ON THIS GRADING PLAN.
8. DRIVEWAY SLOPES CANNOT EXCEED MAXIMUM SLOPE OF 12.5%.

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135931 DATE: 02.06.19

L18-02380 107V5099

BY D.R. HORTON



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Email: MAIL@ADVANTAGECIVIL-LLP.COM
D. MANNING
CONSULTING
CIVIL ENGINEERING

[illegible]

PROJ#:135931A QS:138-28-SE

ccchaffin PLOT DATE: 01-29-19 PLOT TIME: 11:39:05 DWG PATH: N:\Horton\043 BLM 33\dwg\mp\02-043--PWP.DWG



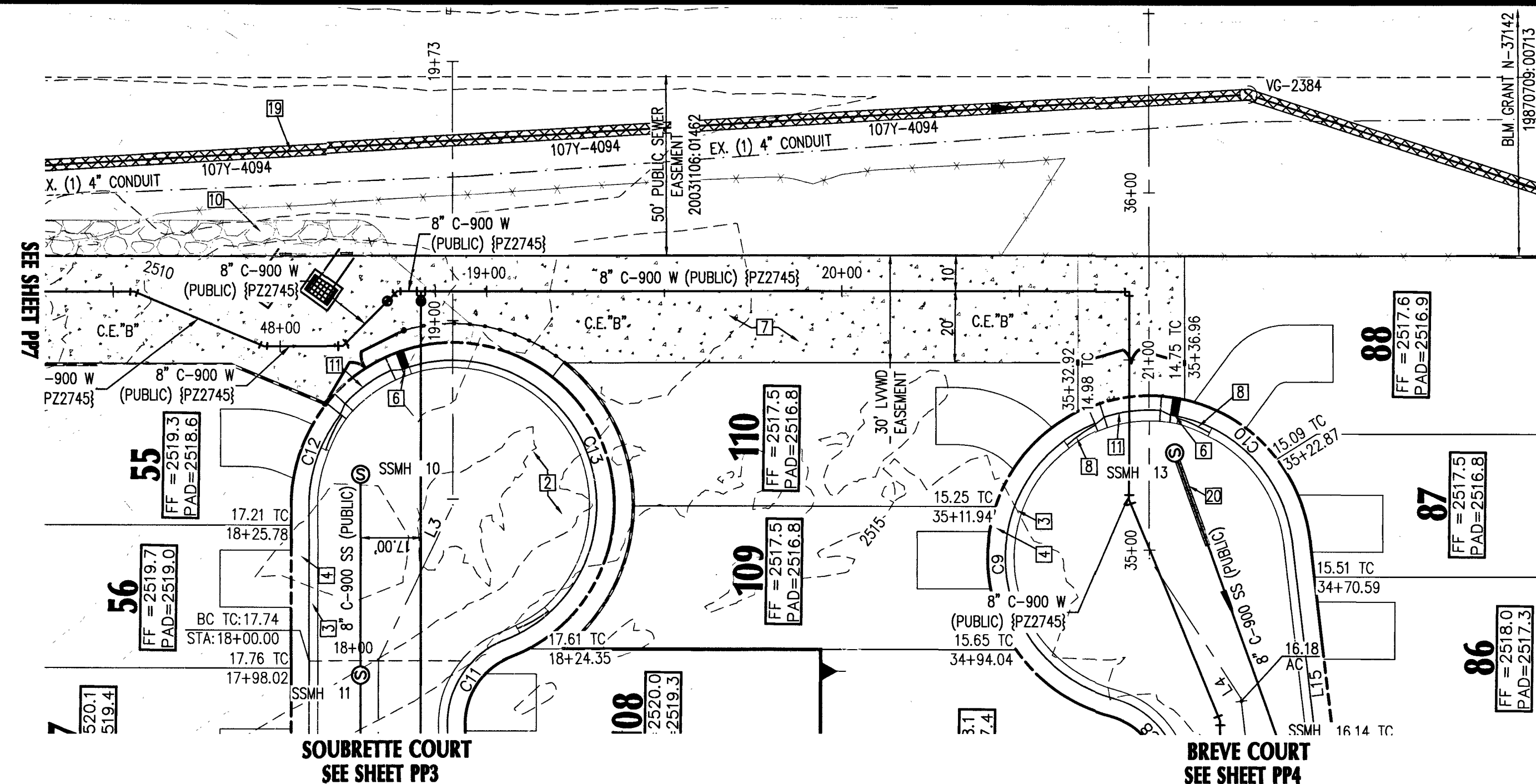
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1-800-227-2600

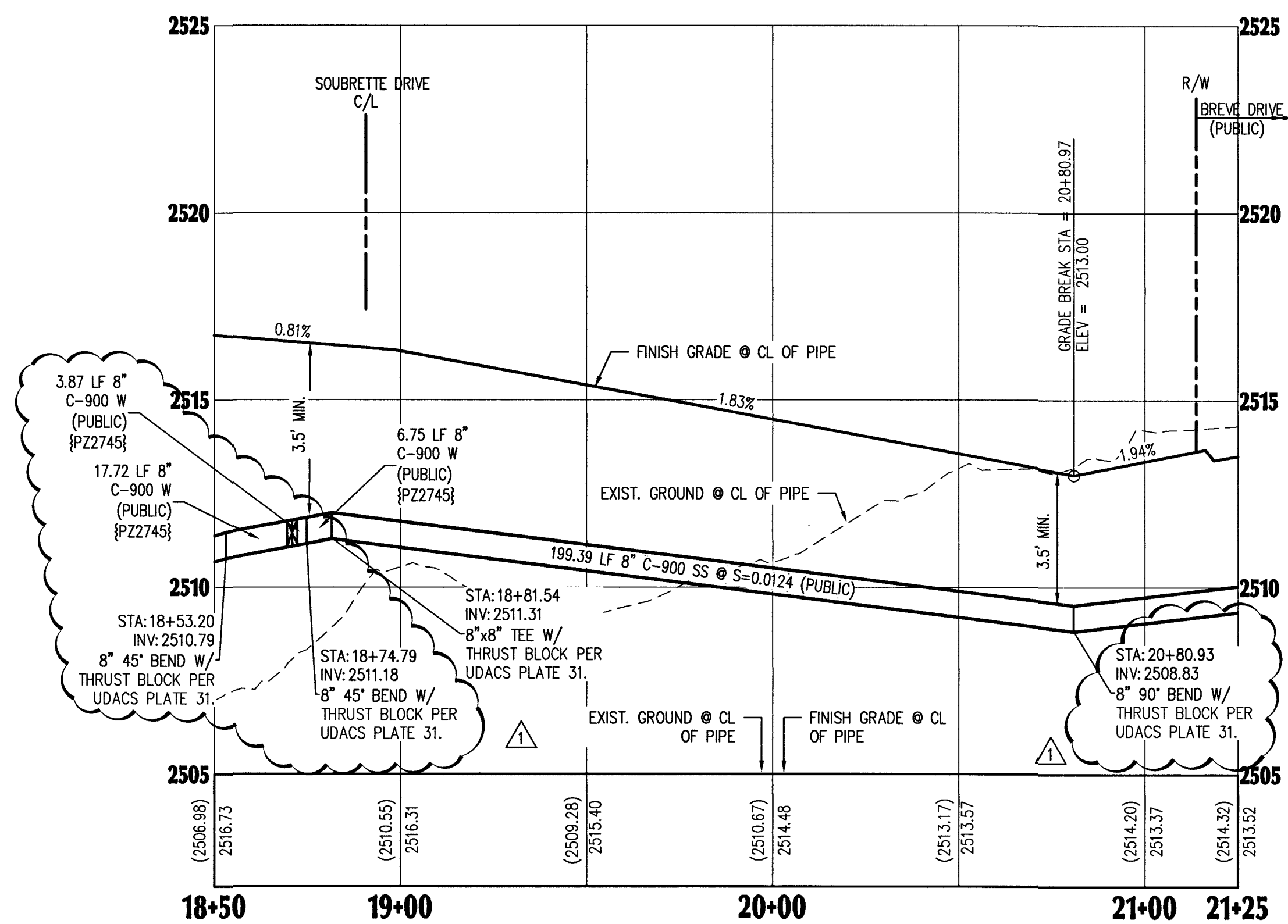


DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0
 ZONE: LAS VEGAS ZONE
 STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
 CENTRAL MERIDIAN: 114°58'00" W
 FALSE NORTHING: 200,000 METERS
 FALSE EASTING: 100,000 METERS
 STANDARD PARALLEL SCALE: 1.0001
 LINEAR UNIT: US SURVEY FOOT (SFT)

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007)
BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)



SOUBRETTE-BREVE WATER LOOP-PLAN VIEW
SCALE: 1"=30'



SOUBRETTE-BREVE WATER LOOP-PROFILE VIEW
HORIZONTAL: 1"=30'
VERTICAL: 1"=3'

LINE TABLE		
TAG	LENGTH	BEARING
L1	47.32'	S25°27'01"W
L2	29.68'	S45°53'38"E
L3	48.31'	S25°06'11"W
L4	46.75'	S34°06'38"E
L5	39.28'	S07°25'06"E
L6	70.00'	N00°49'09"W
L7	390.87'	S00°37'58"E
L8	453.05'	S00°53'38"E
L9	377.14'	S00°53'38"E
L10	313.87'	S89°10'51"W
L11	173.54'	S89°10'51"W
L12	367.94'	S00°37'58"E
L13	85.00'	N00°49'09"W
L14	19.91'	S07°25'06"E
L15	80.97'	S00°37'58"E
L16	372.30'	S00°53'38"E
L17	450.88'	S00°37'58"E
L18	433.70'	S00°53'38"E
L19	373.35'	S00°53'38"E
L20	358.41'	S00°53'38"E
L21	434.40'	S00°53'38"E
L22	163.02'	S89°10'51"W
L23	88.70'	S89°10'51"W
L24	328.85'	S89°10'51"W
L25	154.95'	S89°10'51"W
L26	188.59'	S89°10'51"W
L27	330.00'	S00°37'58"E
L28	313.95'	S00°37'58"E

CURVE TABLE				
TAG	RADIUS	LENGTH	TANGENT	DELTA
C1	152.00	64.28	32.63	241°3'46"
C2	225.62	85.57	43.30	211°43'47"
C3	54.50	85.61	54.50	90°00'00"
C4	54.50	85.54	54.43	89°55'31"
C5	54.50	85.79	54.68	90°11'10"
C6	224.50	26.59	13.31	6°47'07"
C7	59.00	92.68	59.00	90°00'00"
C8	25.00	30.10	17.17	68°58'29"
C9	40.50	101.42	122.73	143°28'32"
C10	40.50	52.95	31.03	74°54'44"
C11	25.00	31.16	17.97	71°25'12"
C12	40.50	25.97	13.45	36°44'05"
C13	40.50	126.95	11687.69	179°36'11"
C14	40.50	47.44	26.86	67°06'55"
C15	40.50	107.73	164.97	152°24'48"
C16	25.00	30.10	17.17	68°58'29"
C17	40.50	176.11	58.76	249°09'01"
C18	25.00	30.09	17.17	68°57'56"
C19	171.50	72.52	36.81	241°3'46"
C20	249.60	80.03	40.36	18°22'20"
C21	20.00	38.46	28.65	110°10'21"
C22	181.50	77.20	39.19	24°22'16"
C23	35.00	54.98	35.00	90°00'00"
C24	20.00	31.39	19.97	89°55'31"
C25	20.00	31.44	20.03	90°04'29"
C26	35.00	54.93	34.95	89°55'31"
C27	59.00	92.60	58.92	89°55'31"
C28	20.00	31.35	19.94	89°48'50"
C29	35.00	55.09	35.11	90°11'10"
C30	59.00	92.87	59.19	90°11'10"
C31	244.00	28.90	14.46	6°47'07"
C32	205.00	24.28	12.15	6°47'07"

UTILITY NOTES:

- ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS), LATEST EDITION.
- WATER AND SEWER SERVICE LATERALS SHALL BE INSTALLED A MINIMUM OF FORTY-EIGHT (48) INCHES APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF TWELVE (12) INCHES ABOVE THE SEWER LATERAL (REF. UDACS 2.17.01.D)
- GATE VALVES SHALL NOT BE LOCATED IN STREET GUTTERS, VALLEY GUTTERS, OR IN DRIVEWAYS PER UDACS FOR WATER DISTRIBUTION STANDARDS SECTION 2.11.01.E.
- ALL SEWER AND STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSING AND CLEARANCES.
- ALL LOTS HAVE WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE REDUCING VALVES BE INSTALLED WHENEVER PRESSURE EXCEEDS 80 PSI.
- INSTALL PIPELINE MARKER BALLS, PER UDACS PLATE NO. 15.
- WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03.
- MAINTAIN MINIMUM 24" COVER PER UDACS 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.
- WATER MAIN JOINT DEFLECTION PER UDACS 2.07.01 AND 2.07.03.
- INSTALL PIPELINE MARKER BALLS PER UDACS PLATE NO. 15.

GENERAL NOTES

- SEE FINAL MAP FOR EXACT BEARINGS AND DISTANCES.
- CONTRACTORS SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
- ALL GRADING WORK TO CONFORM TO SOILS REPORT AS PREPARED FOR THIS PROPERTY.
- CONTRACTOR SHALL REMOVE EXCESS DEBRIS AND VERIFY WALL FOOTING ELEVATION PRIOR TO CONSTRUCTION. REPORT DISCREPANCIES TO ENGINEER IMMEDIATELY.
- CONSTRUCT RETAINING WALL, FOOTING ELEVATION AND TOP OF WALL ELEVATION PER PLAN.
- CONTRACTOR TO MAINTAIN MIN. DEPTH OF COVER ABOVE PAD FOOTINGS AND ADJACENT WALL FOOTINGS WHERE DEEP SWALES OCCUR.
- ADD 2500' TO ELEVATION TAGS SHOWN ON THIS GRADING PLAN.
- DRIVEWAY SLOPES CANNOT EXCEED MAXIMUM SLOPE OF 12.5%.

APPROVED FOR CONSTRUCTION

DESIGNED BY: D.D. HORTON
PROJECT NO.: 135931 DATE: 2-6-19

L18-02380 107Y5099

P&P SOUBRETTE-BREVE WATER LOOP

BLM 33

BY D.R. HORTON

NO.	DATE	REVISIONS	DESCRIPTION
1	6/7/19	ADDED WATER CROSSING PER UDACS SECTION 2.22.02.C	
2		ADDED NOTE TO REMOVE EX. SEWER SUB. & SWG PLANS	
3		UPDATE STATIONS FOR WATERMAIN FITTINGS	

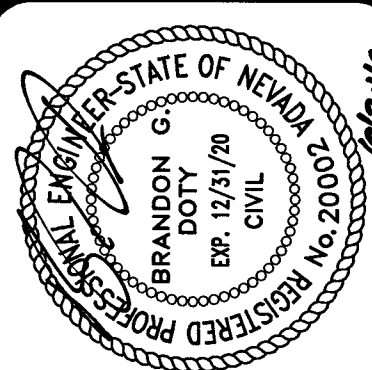
JOB NUMBER: 02-043
DRAWN BY: CW
DESIGNED BY: CW
CHECKED BY: BGD
DATE: 12/2018

PP8

15

24

ADVANTAGE CIVIL DESIGN GROUP, LLP
2920 N. GREEN VALLEY PKWY. BLDG. 4 STE. # 422
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CONSULTING



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BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
FALSE NORTHING: 200,000 METERS
FALSE EASTING: 100,000 METERS
STANDARD PARALLEL SCALE: 1.0001
LINEAR UNIT: US SURVEY FOOT (SFT)

BENCHMARK

CITY OF LAS VEGAS VERTICAL CONTROL POINT "OLV00 2854" BEING A RIVET & PLATE IN TOP OF CURB AT NW CORNER OF WESTCLIFF & CIMARRON.

ELEVATION: 2551.98 FEET
777.844 METERS

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007) BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

SIGHT VISIBILITY NOTE:

NO WALLS, FENCES, TREES, SHRUBS UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTING, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE.

NOTE:

ADVANTAGE CIVIL DESIGN GROUP ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITIES SHOWN OR NOT SHOWN. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM RECORD INFORMATION AND ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY BOTH THE HORIZONTAL AND VERTICAL LOCATION OF ALL RELEVANT UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. IF A CONFLICT OR DISCREPANCY IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IMMEDIATELY.

PP9S PLOT DATE: 11-04-19 PLOT TIME: 11:51:22 DWG PATH: N:\Vegas\043 BLM 33\dwg\1002-043-1002-043.dwg

BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS). LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

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STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
CENTRAL MERIDIAN: 114°58'00" W
FALSE NORTHING: 200,000 METERS
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STANDARD PARALLEL SCALE: 1.0001
LINEAR UNIT: US SURVEY FOOT (SFT)

BENCHMARK

CITY OF LAS VEGAS VERTICAL CONTROL POINT "0LV00 2854" BEING A RIVET & PLATE IN TOP OF CURB AT NW CORNER OF WESTCLIFF & CIMARRON.

ELEVATION: 2551.98 FEET
777.844 METERS

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007)
BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)



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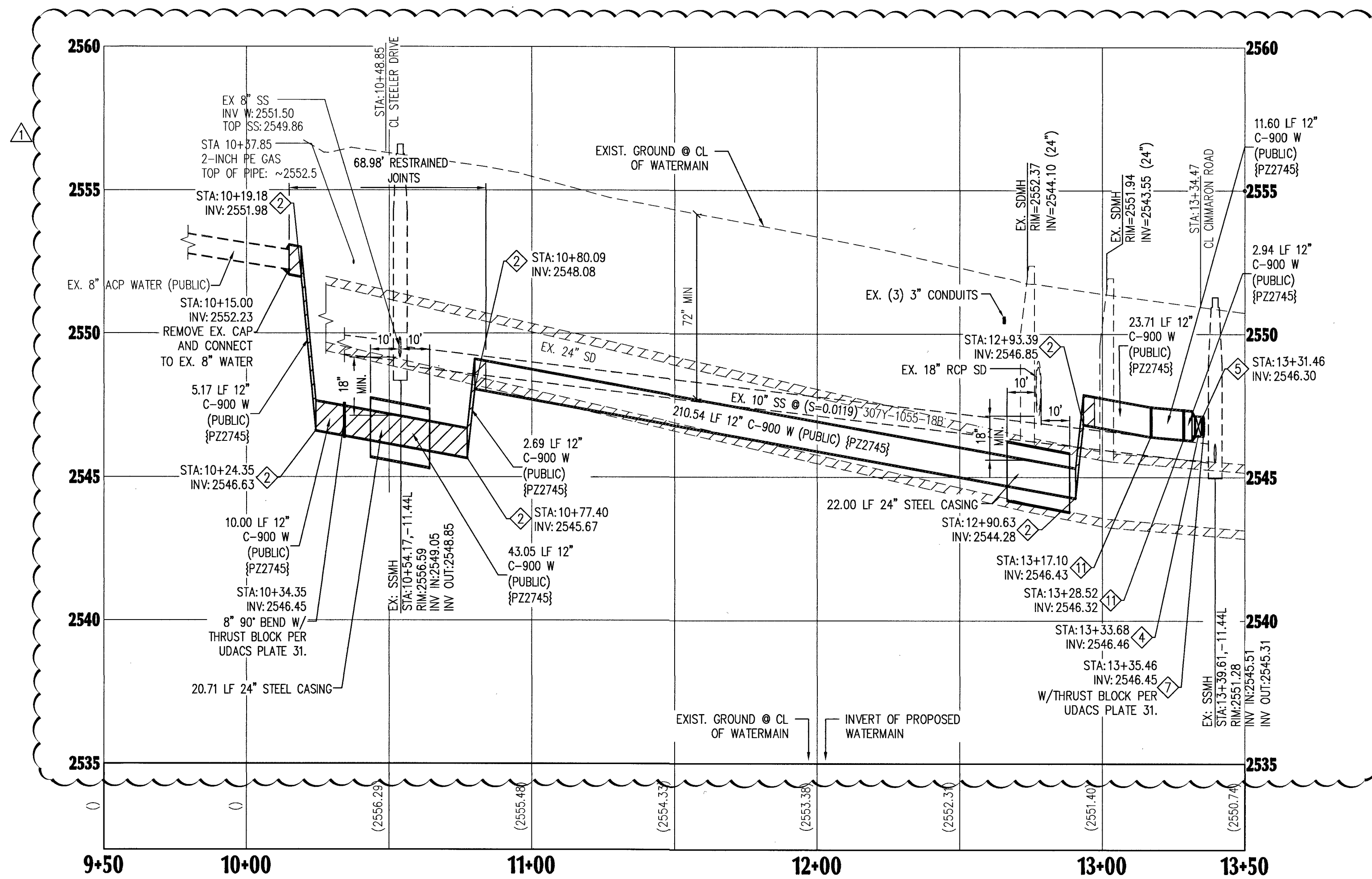


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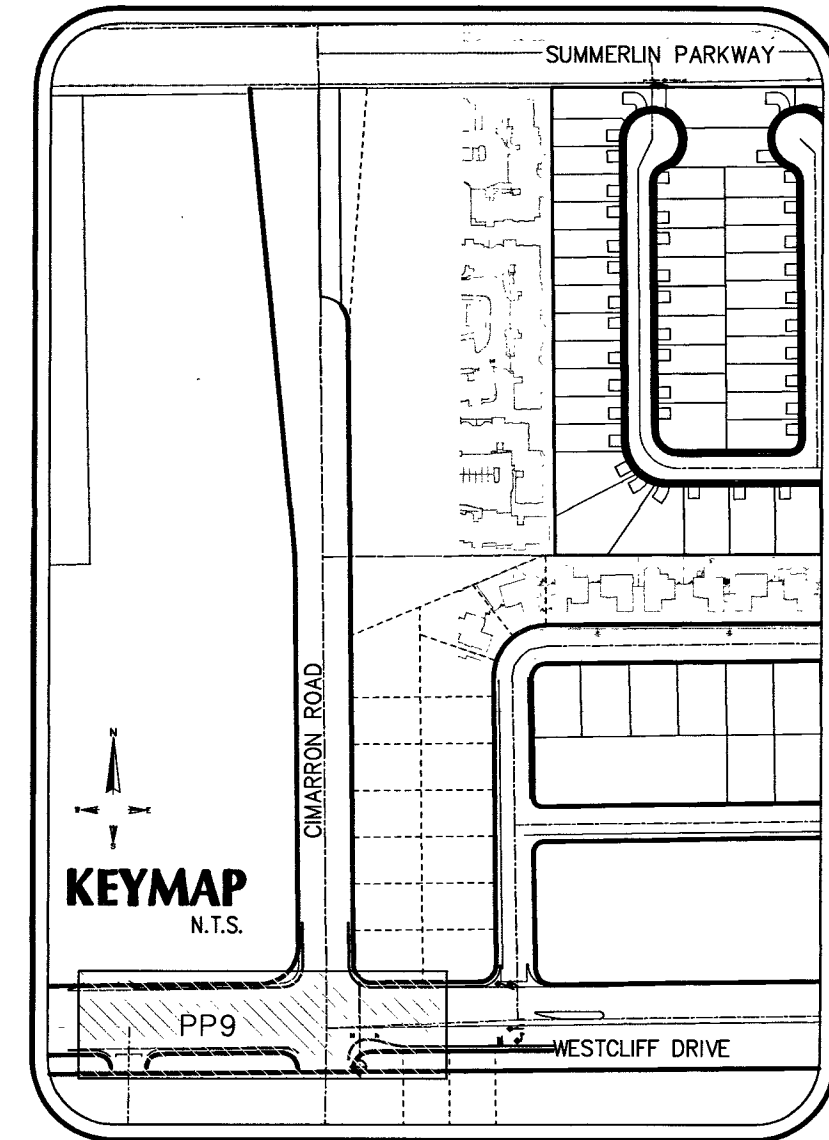
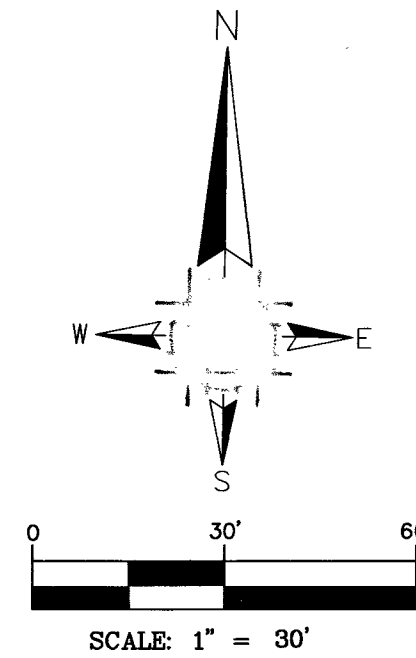
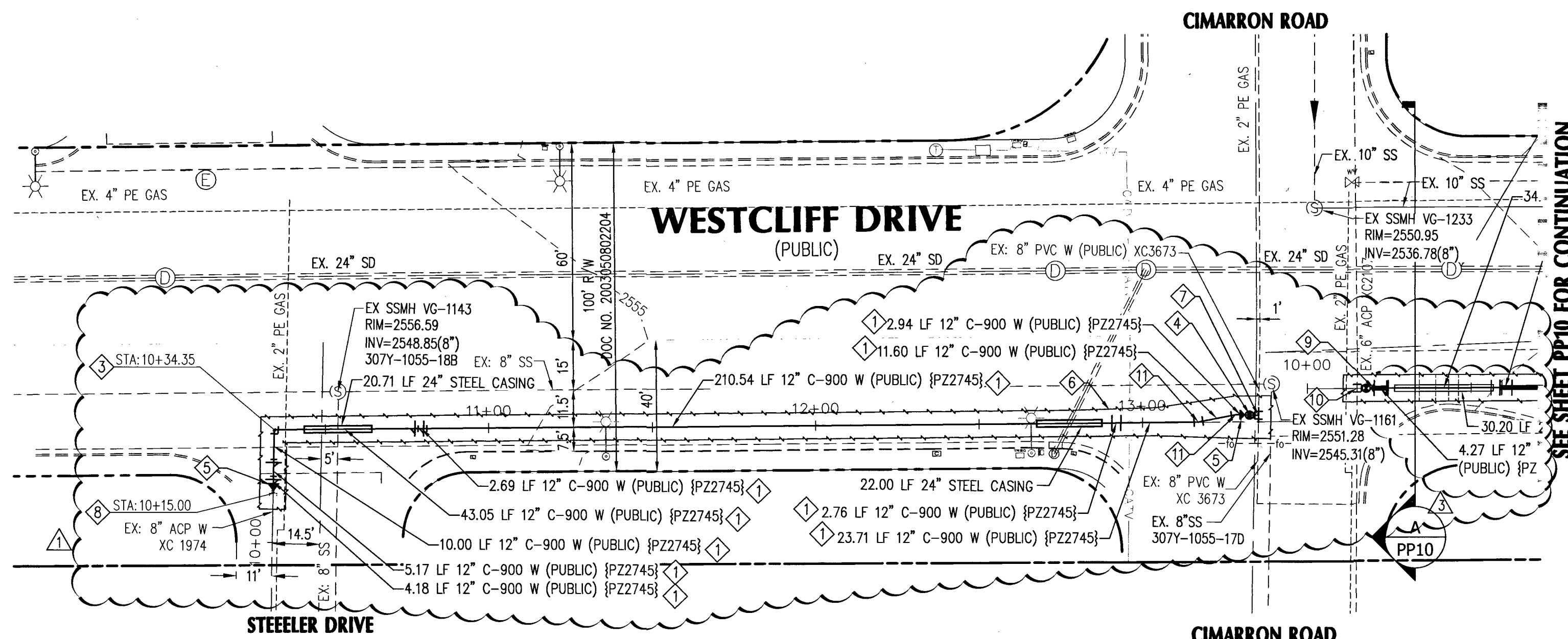
WESTCLIFF DRIVE (PUBLIC)-PROFILE VIEW

HORIZONTAL: 1"=30'
VERTICAL: 1"=3'



WESTCLIFF DRIVE (PUBLIC)-PLAN VIEW

SCALE: 1"=30'



LEGEND

CENTER LINE	---
PROPOSED EASEMENT	---
RIGHT-OF-WAY	---
PROPOSED WATER	PVC W
PROPOSED SEWER	PVC SS
EXISTING WATER	EX. WATER LINE
EXISTING SEWER	EX. SEWER LINE
EXISTING GAS	EX. GAS
PROPOSED SAWCUT	---
EXISTING EDGE PVMT	---
SANITARY SEWER	SS
WATER	WAT
PRIVATE	PVT
INVERT	INV
ELEVATION	ELEV
MANHOLE	MH
BACKWATER VALVE	BWV
PRESSURE REDUCING VALVE	PRV

WATER

1. WATER MAIN SIZE/MATERIAL PER PLAN. TRENCH & BACKFILL PER UDACS PLATE 17.
2. INSTALL 12" 45' BEND W/ THRUST BLOCK PER UDACS PLATE 31.
3. INSTALL 12" 90' BEND W/ THRUST BLOCK PER UDACS PLATE 31.
4. INSTALL 8" GATE VALVE PER UDACS PLATES 30 & 39.
5. INSTALL 12"x8" REDUCER W/ THRUST BLOCK PER UDACS PLATE 31.
6. SAWCUT REMOVE AND REPLACE WITH 4" A.C. PAVEMENT OVER 4" TYPE II OVER 9" TYPE I AGGREGATE BASE PER CCAUSD #503.
7. INSTALL 8"x8" TAPPING SLEEVE W/TAPPING VALVE PER UDACS 2.24.01 A, PLATE 30 & 39.
8. REMOVE CAP AND BLOWOFF PER UDACS PLATE #36 AND CONNECT TO EXISTING MAIN.
9. INSTALL 12"x6" REDUCER W/ THRUST BLOCK PER UDACS PLATE 31.
10. INSTALL 6"x6" TAPPING SLEEVE W/TAPPING VALVE PER UDACS 2.24.01 A, PLATE 30 & 39.
11. INSTALL 12" 11.25' BEND W/ THRUST BLOCK PER UDACS PLATE 31.

UTILITY NOTES:

1. ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS), LATEST EDITION.
2. WATER AND SEWER SERVICE LATERALS SHALL BE INSTALLED A MINIMUM OF FORTY-EIGHT (48) INCHES APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF TWELVE (12) INCHES ABOVE THE SEWER LATERAL (REF. UDACS 2.17.01.D).
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5. ALL LOTS HAVE WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE REDUCING VALVES BE INSTALLED WHENEVER PRESSURE EXCEEDS 80 PSI.
6. INSTALL PIPELINE MARKER BALLS, PER UDACS PLATE NO. 15.
7. WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03.
8. MAINTAIN MINIMUM 24" COVER PER UDACS 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.

SOUTHWEST GAS CORPORATION

11/19/19

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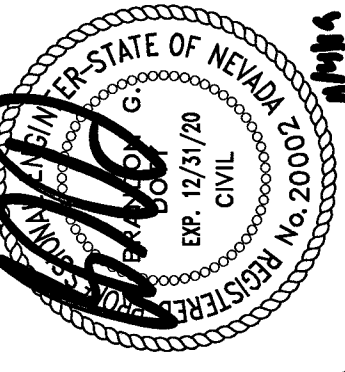
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO.: 135931 DATE: 11/27/19

L18-02380 107Y5099

PROP. 12" WATERLINE - WESTCLIFF DR.

BLM 33

BY D.R. HORTON

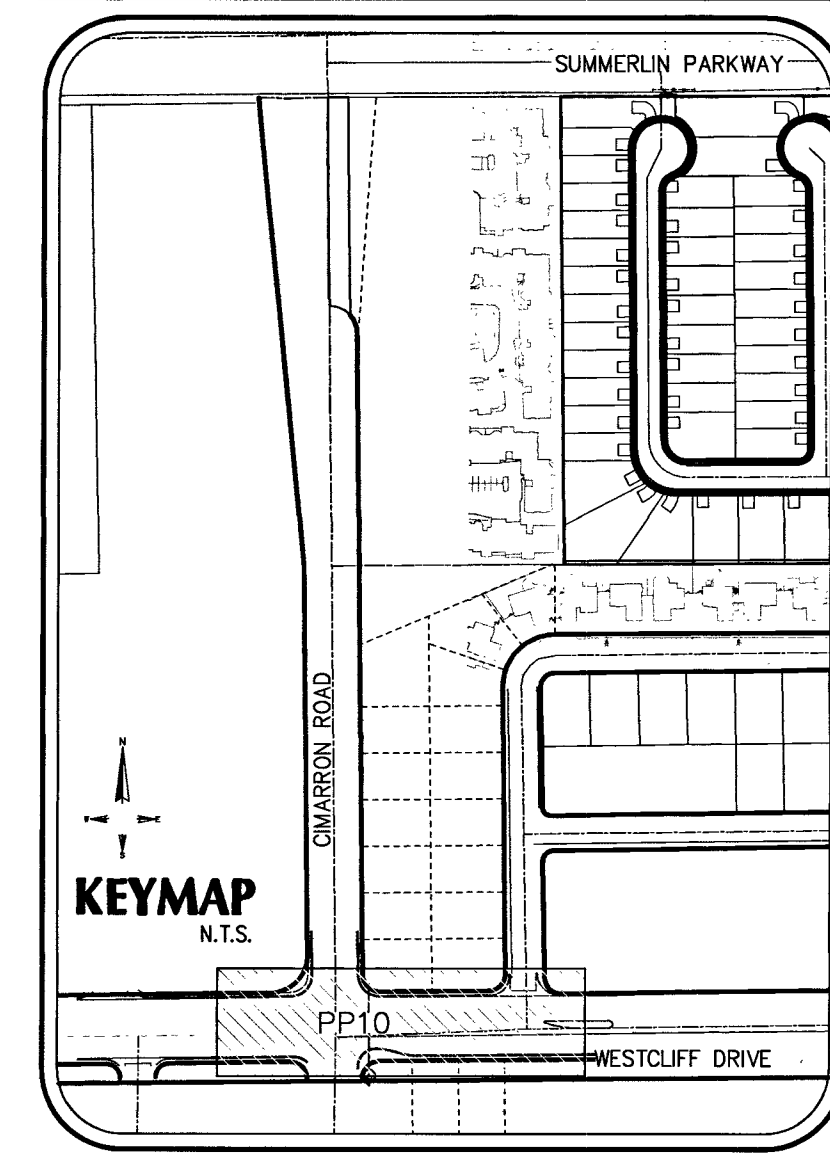
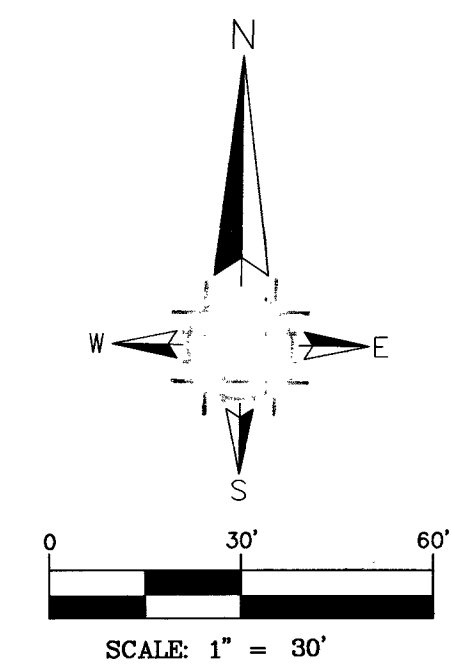
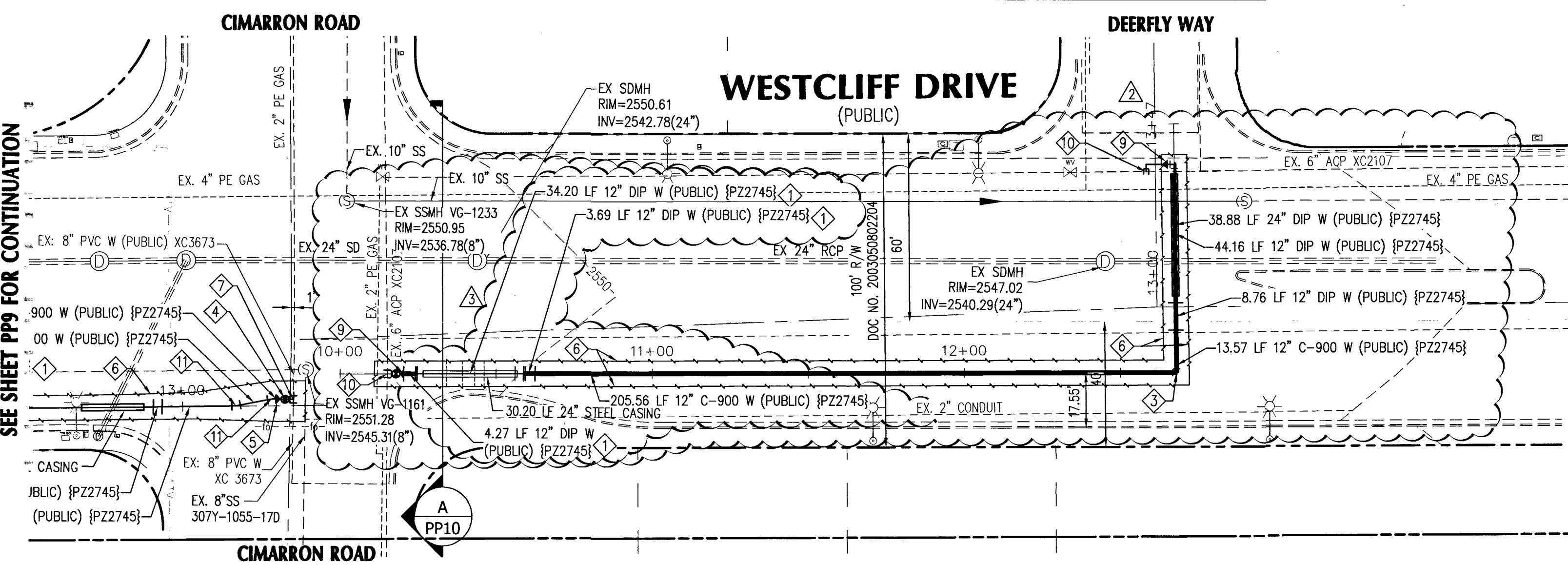
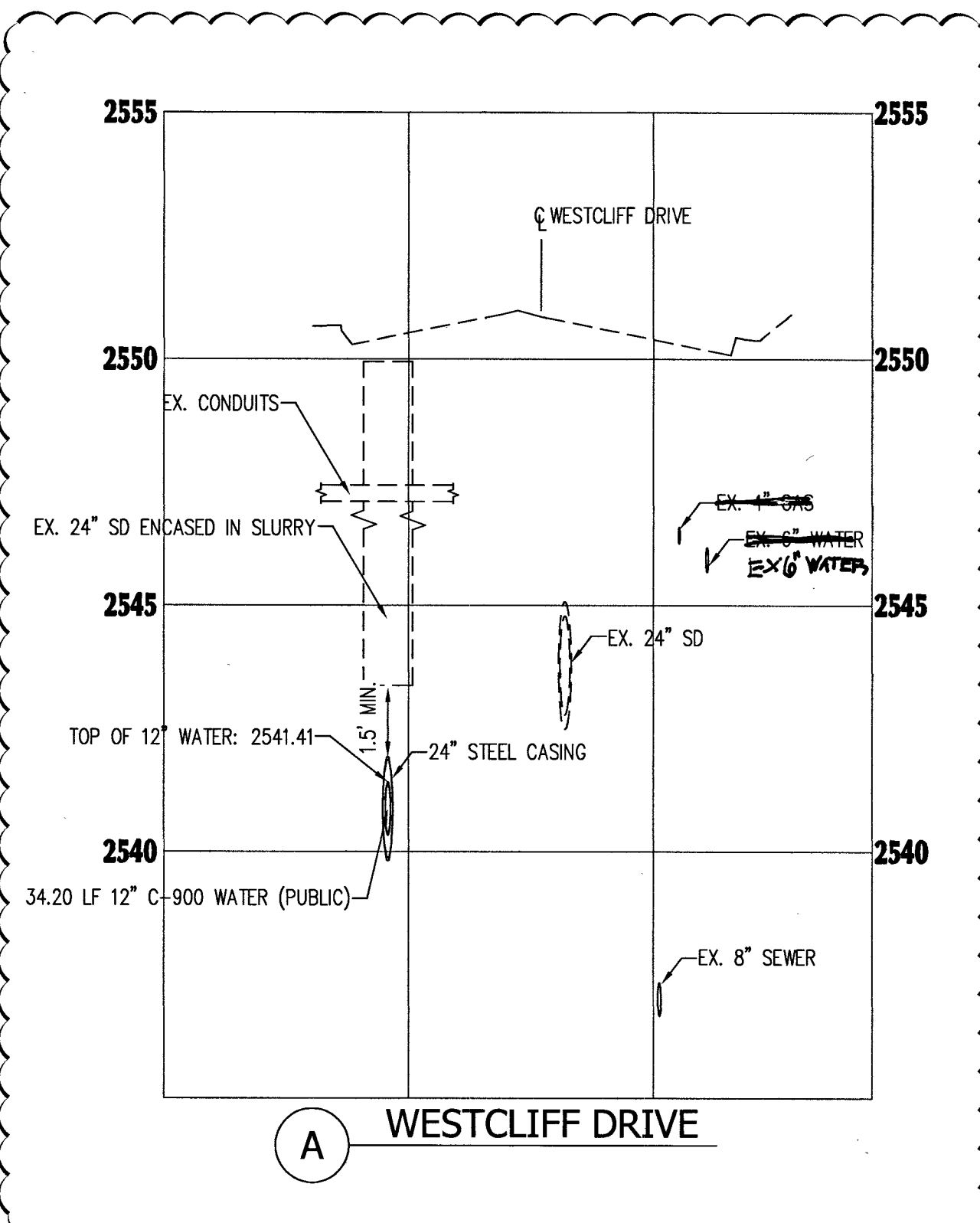


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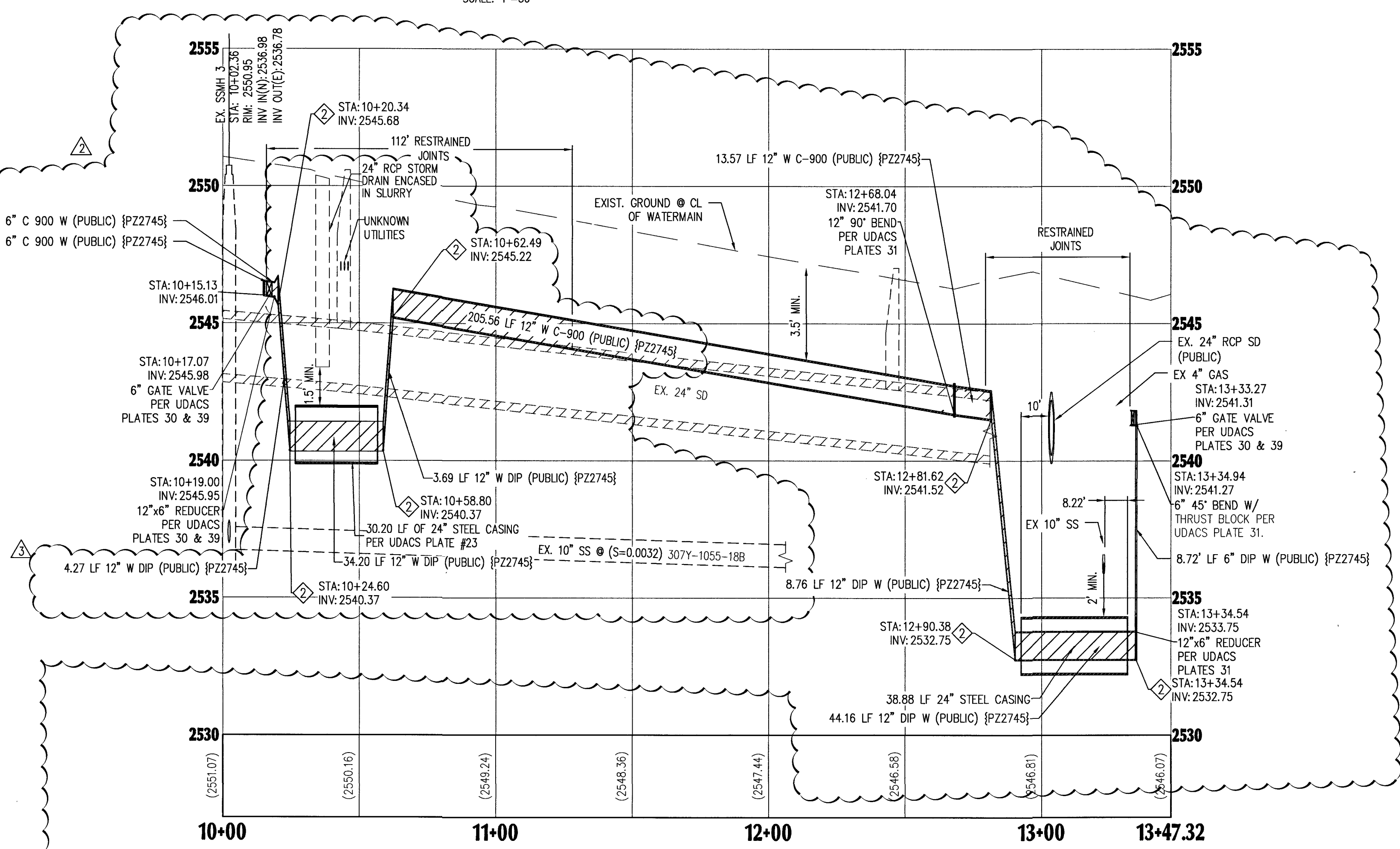
NO.	DATE	DESCRIPTION	COH
1	5/27/19	REVISED RETAINING WALLS, REVISED WATER MAIN DUE TO CONFLICTS, UPDATE STATIONS FOR WATERMAIN FITTINGS.	
2	9/18/19	ADDED NOTE TO REMOVE EX. SEWER STUB, ADDED DRY UTILITY PLANS.	
3	11/19/19	ADDED IRRIGATION CROSSINGS, REVISED WATER MAIN STATIONS, ADDED WATER MAIN COVER.	

JOB NUMBER: 02-043
DRAWN BY: CW
DESIGNED BY: CW
CHECKED BY: BGD
DATE: 12/20/18

PP9 16 24



WESTCLIFF DRIVE (PUBLIC)-PLAN VIEW
SCALE: 1"=30'



WESTCLIFF DRIVE (PUBLIC)-PROFILE VIEW
HORIZONTAL: 1"=30'
VERTICAL: 1"=3'

LEGEND

CENTER LINE	---
PROPOSED EASEMENT	----
RIGHT-OF-WAY	=====
PROPOSED WATER	PVC W
PROPOSED SEWER	PVC SS
EXISTING WATER	EX. WATER LINE
EXISTING SEWER	EX. SEWER LINE
EXISTING GAS	EX. GAS
EXISTING SAWCUT	---
EXISTING EDGE PAVT	---
SANITARY SEWER	SS
WATER	WAT
PRIVATE	PVT
INVERT	INV
ELEVATION	ELEV
MANHOLE	MH
BACKWATER VALVE	BWV
PRESSURE REDUCING VALVE	PRV

- WATER**
- WATER MAIN SIZE/MATERIAL PER PLAN. TRENCH & BACKFILL PER UDACS PLATE 17.
 - INSTALL 12" 45° BEND W/ THRUST BLOCK PER UDACS PLATE 31.
 - INSTALL 12" 90° BEND W/ THRUST BLOCK PER UDACS PLATE 31.
 - INSTALL 8" GATE VALVE PER UDACS PLATES 30 & 39.
 - INSTALL 12"x8" REDUCER W/ THRUST BLOCK PER UDACS PLATE 31.
 - SAWCUT REMOVE AND REPLACE WITH 4" A.C. PAVEMENT OVER 4" TYPE II OVER 9" TYPE I AGGREGATE BASE PER CCAUSD #503.
 - INSTALL 8"x8" TAPPING SLEEVE W/TAPPING VALVE PER UDACS 2.24.01 A, PLATE 30 & 39.
 - REMOVE CAP AND BLOWOFF PER UDACS PLATE #36 AND CONNECT TO EXISTING MAIN.
 - INSTALL 12"x6" REDUCER W/ THRUST BLOCK PER UDACS PLATE 31.
 - INSTALL 6"x6" TAPPING SLEEVE W/TAPPING VALVE PER UDACS 2.24.01 A, PLATE 30 & 39.
 - INSTALL 12" 11.25° BEND W/ THRUST BLOCK PER UDACS PLATE 31.

BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
CENTRAL MERIDIAN: 114°58'00" W
FALSE NORTHING: 200,000 METERS
FALSE EASTING: 100,000 METERS
STANDARD PARALLEL SCALE: 1.0001
LINEAR UNIT: US SURVEY FOOT (SFT)

BENCHMARK

CITY OF LAS VEGAS VERTICAL CONTROL POINT "01V00.28S4" BEING A RIVET & PLATE IN TOP OF CURB AT NW CORNER OF WESTCLIFF & CIMARRON.

ELEVATION: 2551.98 FEET
777.844 METERS

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007) BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

NOTES

- PROTECT IN PLACE AND ADJUST LVWD EXISTING. FACILITIES TO FINISH GRADE PER UDACS. ALL LVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.
- DISPOSAL OF ASBESTOS CEMENT PIPE (ACP) SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

UTILITY NOTES:

- ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS), LATEST EDITION.
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Tom On
SOUTHWEST GAS CORPORATION
DATE: 11/14/19

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APPROVED FOR CONSTRUCTION

Signature
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135931 DATE: 11/17/19

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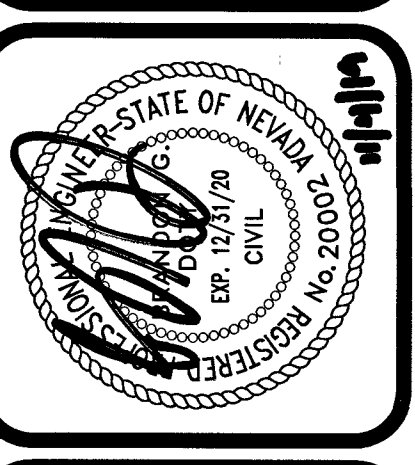
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ADVANTAGE CIVIL DESIGN GROUP, LLP
2920 N. GREEN VALLEY PKWY, BLDG. 4 STE. # 422
HENDERSON, NEVADA 89014
Office: 702.492.2294
Fax: 702.496.2294
Email: MAIL@ADVANTAGECIVIL-NV.COM
PLANNING
CONSULTING
CIVIL ENGINEERING



PROP. 12" WATERLINE - WESTCLIFF DR.
BLM 33
BY D.R. HORTON

NO.	DATE	DESCRIPTION
1	7/18/19	REVISED WATER MAIN DUE TO CONFLICTS. UPDATED STATIONS FOR WATERMAIN FITTINGS.
2	9/18/19	ADDED IRRIGATION CROSSINGS. REVISED WATER MAIN STATIONS.
3	11/17/19	ADDED 8" GATE VALVE PER UDACS PLATES 30 & 39.
4	11/17/19	ADDED 12" 45° BEND W/ THRUST BLOCK PER UDACS PLATE 31.
5	11/17/19	ADDED 12" 90° BEND W/ THRUST BLOCK PER UDACS PLATE 31.
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9	11/17/19	ADDED 8"x8" TAPPING SLEEVE W/TAPPING VALVE PER UDACS 2.24.01 A, PLATE 30 & 39.
10	11/17/19	ADDED REMOVE CAP AND BLOWOFF PER UDACS PLATE #36 AND CONNECT TO EXISTING MAIN.
11	11/17/19	ADDED 12"x6" REDUCER W/ THRUST BLOCK PER UDACS PLATE 31.
12	11/17/19	ADDED 6"x6" TAPPING SLEEVE W/TAPPING VALVE PER UDACS 2.24.01 A, PLATE 30 & 39.
13	11/17/19	ADDED 12" 11.25° BEND W/ THRUST BLOCK PER UDACS PLATE 31.

JOB NUMBER: 02-043
DRAWN BY: CW
DESIGNED BY: CW
CHECKED BY: BGD
DATE: 12/2018

L18-02380 107Y5099

PP10 17 24



Call before you Dig
1-800-227-2600
1-702-227-2929



BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS). LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
CENTRAL MERIDIAN: 114°58'00" W
FALSE NORTHING: 200,000 METERS
FALSE EASTING: 100,000 METERS
STANDARD PARALLEL SCALE: 1.0001
LINEAR UNIT: US SURVEY FOOT (SFT)

BENCHMARK

CITY OF LAS VEGAS VERTICAL CONTROL POINT "OLIVIO 2854" BEING A RIVET & PLATE IN TOP OF CURB AT NW CORNER OF WESTCLIFF & CIMARRON.

ELEVATION: 2551.98 FEET
777.844 METERS

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007)
BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

WATER MAIN JOINT DEFLECTION (PVC 4"-24")

PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MINIMUM RADIUS OF CURVATURE OF 1,150 FEET PER UDACS 2.07.01 AND 2.07.02.

FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.

NOTE:

ADVANTAGE CIVIL DESIGN GROUP ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITIES SHOWN OR NOT SHOWN. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM RECORD INFORMATION AND ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY BOTH THE HORIZONTAL AND VERTICAL LOCATION OF ALL RELEVANT UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. IF A CONFLICT OR DISCREPANCY IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IMMEDIATELY.

UTILITY NOTES:

- ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS), LATEST EDITION.
- WATER AND SEWER SERVICE LATERALS SHALL BE INSTALLED A MINIMUM OF FORTY-EIGHT (48) INCHES APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF TWELVE (12) INCHES ABOVE THE SEWER LATERAL (REF. UDACS 2.17.01.D)
- GATE VALVES SHALL NOT BE LOCATED IN STREET GUTTERS, VALLEY GUTTERS, OR IN DRIVEWAYS PER UDACS FOR WATER DISTRIBUTION STANDARDS SECTION 2.11.01.E.
- ALL SEWER AND STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSING AND CLEARANCES.
- ALL HOMES SHALL HAVE A FIRE SPRINKLER SYSTEM INSTALLED.
- ALL LOTS ON THIS PROPERTY HAVE A STATIC PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE-REDUCING VALVES BE INSTALLED WHEN EVER THE PRESSURE EXCEEDS 80 PSI. PRIVATE ARE THE DEVELOPERS RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES.

NOTE:

THIS PLAN IS FOR REFERENCE ONLY AND IS FOR CONVENIENCE OF THE CITY ENTITY REVIEWERS AND CONTRACTOR. PLEASE REFER TO THE UTILITY PLANS FOR ACTUAL CONSTRUCTION SPECIFICATIONS.

NOTE:

SEE UPT - UP3 FOR CONSTRUCTION NOTE CALL OUTS.

NOTE:

SEE SHEET 2 FOR TOTAL PROJECT QUANTITIES AND GENERAL NOTES.

APPROVALS

[Signature] 11/14/19
SOUTHWEST GAS CORPORATION DATE

[Signature] 11-21-19
CITY OF LAS VEGAS FIRE DEPARTMENT DATE

* THE DATA CONTAINED HEREIN IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. SOUTHWEST GAS CORPORATION MAKES NO WARRANTIES AND DOES NOT GUARANTEE THE CORRECTNESS, COMPLETENESS, OR USEFULNESS FOR ANY LOSS OR DAMAGE HOWEVER ARISING FROM THE USE OR RELIANCE ON THE DATA PROVIDED. THE FIELD LOCATION AND DEPTH OF ALL SOUTHWEST GAS FACILITIES SHOULD BE VERIFIED.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NO. 135931 DATE: 11/7/19
LVVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 26 GPM

LEGEND

CENTER LINE	
RIGHT-OF-WAY	
PROPOSED WATER	C-900 W
PROPOSED WATER	CLASS 53 DIP W
PROPOSED SEWER	SDR-35 SS
EXISTING WATER	EX. WATER LINE
EXISTING SEWER	EX. SEWER LINE
EXISTING GAS	EX. GAS
PROPOSED SAWMUT	
EXISTING EDGE PAVT	
SANITARY SEWER	SS
WATER	WAT
PRIVATE	PVT
INVERT	INV
ELEVATION	ELEV
MANHOLE	MH
BACKWATER VALVE	BWV
PRESSURE REDUCING VALVE	PRV
PRESSURE ZONE	PZ 2745

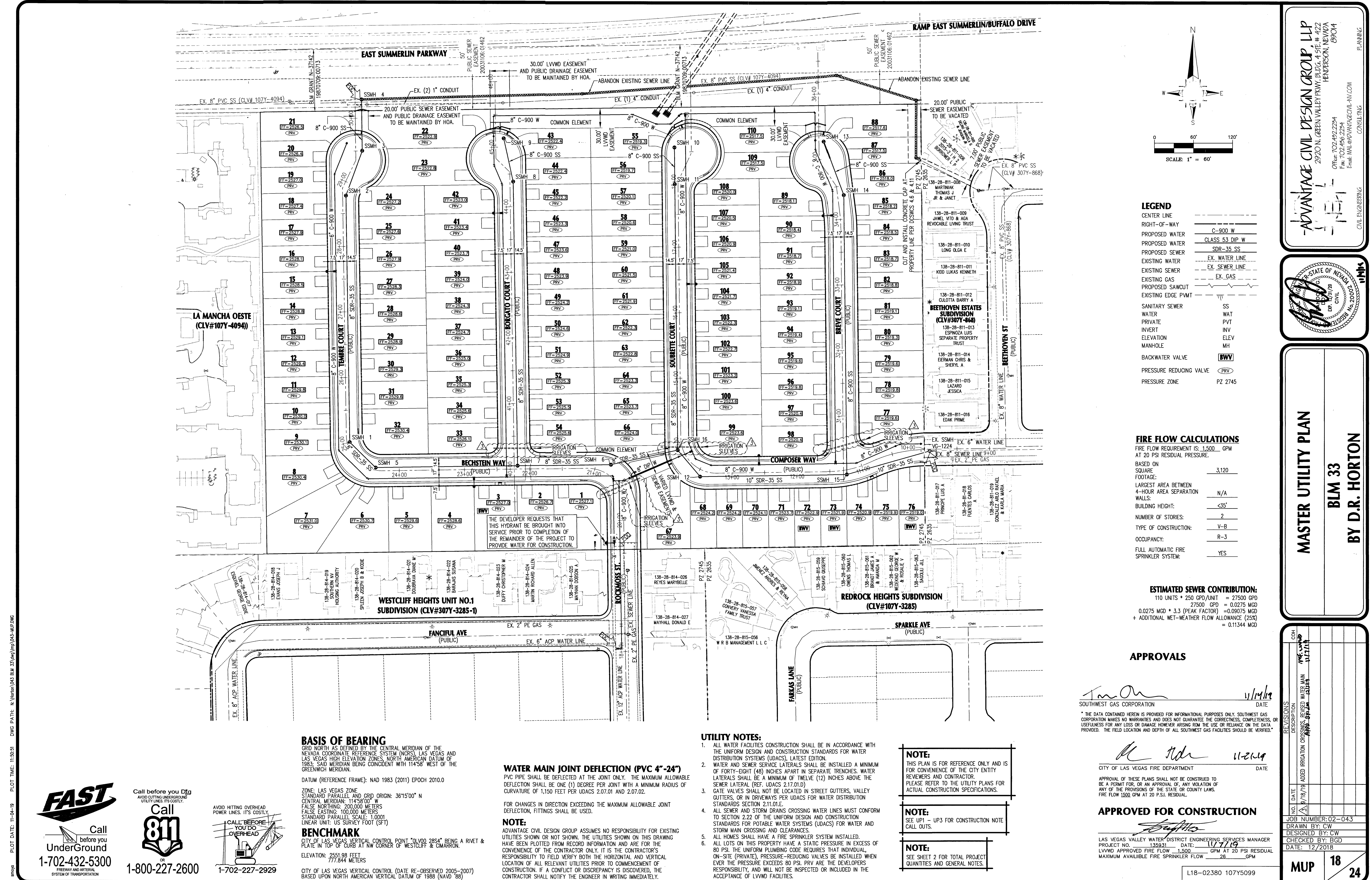
FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS: 1,500 GPM
AT 20 PSI RESIDUAL PRESSURE.

BASED ON	3,120
SQUARE	
FOOTAGE:	
LARGEST AREA BETWEEN	
4-HOUR AREA SEPARATION	N/A
WALLS:	
BUILDING HEIGHT:	<35'
NUMBER OF STORIES:	2
TYPE OF CONSTRUCTION:	V-B
OCCUPANCY:	R-3
FULL AUTOMATIC FIRE	
SPRINKLER SYSTEM:	YES

ESTIMATED SEWER CONTRIBUTION:

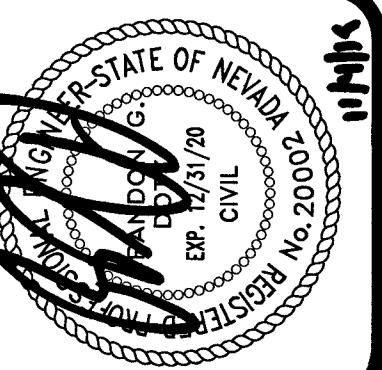
110 UNITS * 250 GPD/UNIT = 27500 GPD
27500 GPD = 0.0275 MGD
0.0275 MGD * 3.3 (PEAK FACTOR) = 0.09075 MGD
+ ADDITIONAL WET-WEATHER FLOW ALLOWANCE (25%)
= 0.11344 MGD



MASTER UTILITY PLAN

BLM 33

BY D.R. HORTON



ADVANTAGE CIVIL DESIGN GROUP, LLP
2920 N. GREEN VALLEY PKWY, SUITE 400, LAS VEGAS, NEVADA 89104
Office: 702.492.2294
Fax: 702.496.2294
Email: MAIL@ADVANTAGE-CV.COM
PLANNING
CIVIL ENGINEERING

NO.	DATE	DESCRIPTION	COPIES
1	11/14/19	ADDED IRRIGATION CROSSINGS	1
2	11/14/19	ADDED IRRIGATION CROSSINGS	1
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WESTCLIFF HEIGHTS UNIT NO.1
SUBDIVISION (CLV#307Y-3285-1)

BASIS OF BEARING
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE
NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND
LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF
1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE
GREENWICH MERIDIAN.

DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
CENTRAL MERIDIAN: 114°58'00" W
FALSE NORTHING: 200,000 METERS
FALSE EASTING: 100,000 METERS
STANDARD PARALLEL SCALE: 1.0001
LINEAR UNIT: US SURVEY FOOT (SFT)

BENCHMARK
CITY OF LAS VEGAS VERTICAL CONTROL POINT "OLVUD 28S4" BEING A RIVET &
PLATE IN TOP OF CURB AT NW CORNER OF WESTCLIFF & CIMARRON.
ELEVATION: 2551.98 FEET
777.844 METERS

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007)
BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)



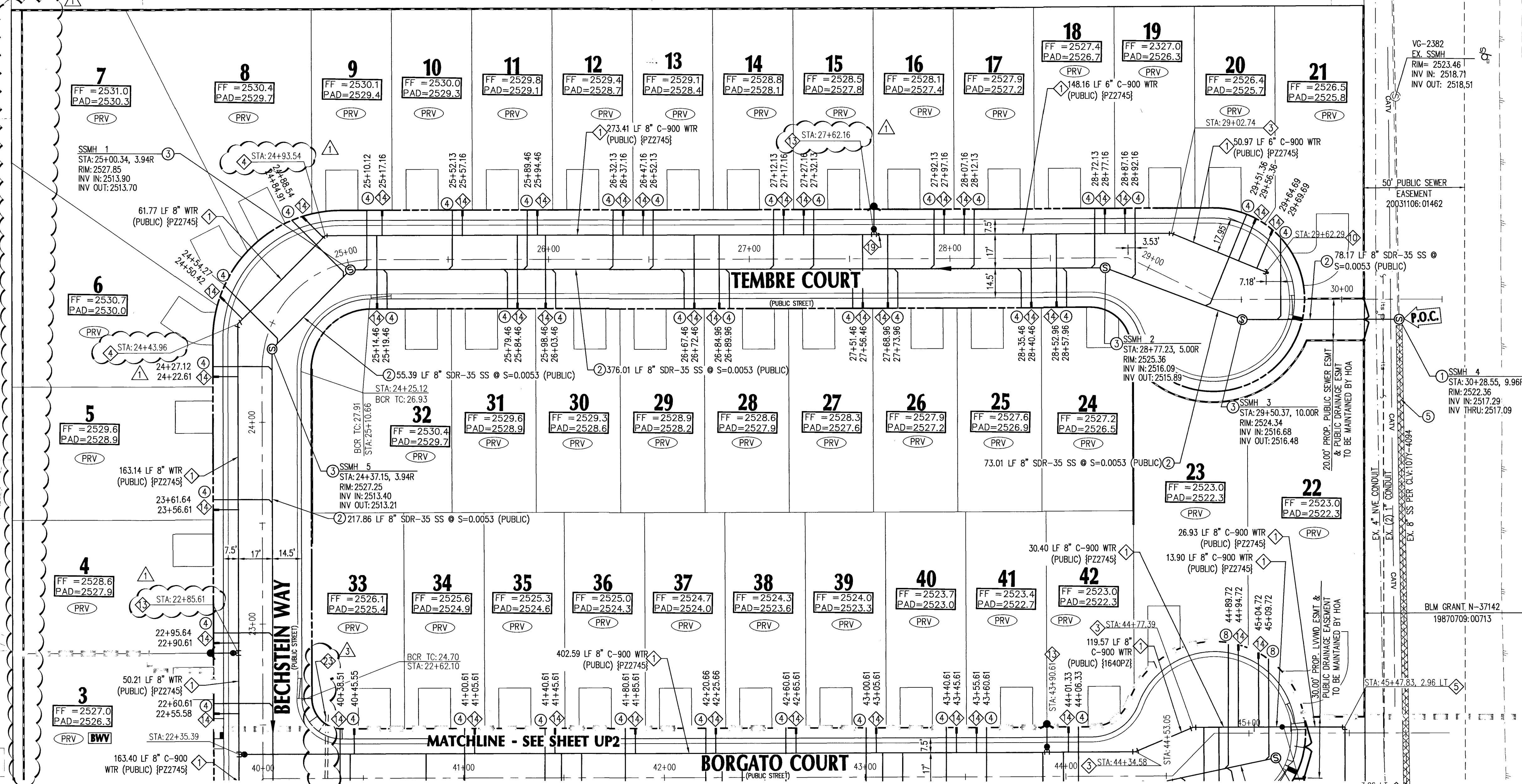
Call before you Dig
before you
UnderGround
1-702-432-5300

Call before you Dig
811
1-800-227-2600



NOTE:
ADVANTAGE CIVIL DESIGN GROUP ASSUMES NO RESPONSIBILITY FOR EXISTING
UTILITIES SHOWN OR NOT SHOWN. THE UTILITIES SHOWN ON THIS DRAWING
HAVE BEEN PLOTTED FROM RECORD INFORMATION AND ARE FOR THE
CONVENIENCE OF THE CONTRACTOR ONLY. IT IS THE CONTRACTOR'S
RESPONSIBILITY TO FIELD VERIFY BOTH THE HORIZONTAL AND VERTICAL
LOCATION OF ALL RELEVANT UTILITIES PRIOR TO COMMENCEMENT OF
CONSTRUCTION. IF A CONFLICT OR DISCREPANCY IS DISCOVERED, THE
CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IMMEDIATELY.

LA MANCHA OESTE
(CLV#107Y-4094)



EAST SUMMERLIN PARKWAY

LEGEND

CENTER LINE	
RIGHT-OF-WAY	
PROPOSED WATER	PVC W
PROPOSED SEWER	PVC SS
EXISTING WATER	EX. WATER LINE
EXISTING SEWER	EX. SEWER LINE
EXISTING GAS	EX. GAS
PROPOSED SAWCUT	
EXISTING EDGE PAVT	
SANITARY SEWER	SS
WATER	WAT
PRIVATE	PVT
INVERT	INV
ELEVATION	ELEV
MANHOLE	MH
BACKWATER VALVE	BWV
PRESSURE REDUCING VALVE	PRV

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS: 1,500 GPM
AT 20 PSI RESIDUAL PRESSURE.

BASED ON
SQUARE FOOTAGE: 3,120 SF

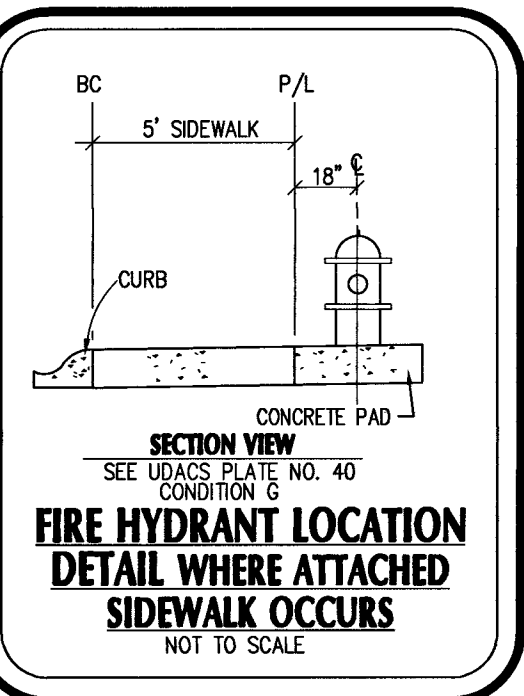
LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS:	N/A	SF
BUILDING HEIGHT:	<35'	FEET
NUMBER OF STORIES:	2	
TYPICAL TYPE OF CONSTRUCTION:	V-B	
OCCUPANCY:	R-3	
FULL AUTOMATIC FIRE SPRINKLER SYSTEM:	YES	

APPROVALS

CITY OF LAS VEGAS FIRE DEPARTMENT
APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO
BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF
ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS.
FIRE FLOW 1500 GPM AT 20 P.S.I. RESIDUAL.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135931 DATE: 11/21/19
LVWMD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 26 GPM



SEWER

1. INSTALL SEWER MANHOLE PER DCSWCS SD-7.
2. SEWER MAIN SIZE/MATERIAL PER PLAN. TRENCH & BACKFILL PER DCSWCS SD-17.
3. INSTALL 48" TYPE I SANITARY SEWER MANHOLE PER DCSWCS SD-1A & SD-4, WITH SINGLE 24" LID.
4. INSTALL 4" SDR-35 SEWER LATERAL & WYE PER DCSWCS SD-22.
5. ABANDON EXISTING MANHOLES AND SEWER MAINS PER DCSWCS SECTION 3.18, METHOD 3.18.1 B OR C, AND METHOD 3.18.2 A.
6. INSTALL SHALLOW MANHOLE PER DCSWCS DWG SD-13, TYPE "A" SHORTY CONE.
7. CONTRACTOR TO INSTALL A MINIMUM OF 4" THICK REINFORCED CONCRETE ENCASEMENT PER DCSWCS STD DWGS SD-14.
8. INSTALL 4" C-900 SEWER LATERAL & WYE PER DCSWCS SD-22 AND UDACS 2.22.02.B.3.a
9. SAWCUT, REMOVE AND REPLACE PAVEMENT PER CCAUSD #500.4.

NOTE:

SEE SHEETS NTS FOR TOTAL PROJECT
QUANTITIES AND GENERAL NOTES.

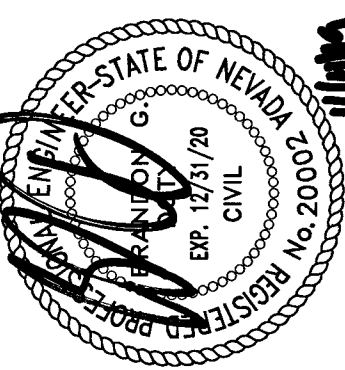
TO INSURE LVWMD ACCESS WITHIN EASEMENT

ALL ABOVE GROUND OBSTRUCTION INCLUDING BUT NOT LIMITED TO, LANDSCAPE
BOULDER, FENCES/WALLS, AND SIGNS ARE STRICTLY PROHIBITED WITHIN THE ESMT.

NOTE:

ALL ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE
REQUIREMENTS OF TITLE 19.06 AND 19.08.

ADVANTAGE CIVIL DESIGN GROUP, LLP
2920 N. GREEN VALLEY PARKWAY, SUITE 400, LAS VEGAS, NV 89104
Office: 702.452.2294
Fax: 702.456.2294
Email: MAIL@ADVANTAGECIVIL-NEV.COM
CONSULTING
CIVIL ENGINEERING



UTILITY PLAN 1
BLM 33
BY D.R. HORTON

NO.	DATE	DESCRIPTION
1	5/2/19	REVISED RETAINING WALLS, REVISED WATER MAIN DUE TO CONFLICTS, UPDATE STATIONS FOR WATERMAIN FITTINGS, ADDED NOTE TO REMOVE EX. SEWER STUB, ADDED DRY UTILITY PLANS.
2	8/18/19	ADDED IRRIGATION CROSSINGS, SEE SHEET 107Y-4094, 11/7/19

JOB NUMBER: 02-043
DRAWN BY: CW
DESIGNED BY: CW
CHECKED BY: BGD
DATE: 12/20/18

UP1 19 24

DWG PATH: N:\Virtuon\04 BLM 33\dwg\1002-043-UP2.DWG
PLOT TIME: 11-04-19
PLOT DATE: 11-04-19

BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
CENTRAL MERIDIAN: 114°58'00"
FALSE NORTHING: 200,000 METERS
FALSE EASTING: 100,000 METERS
STANDARD PARALLEL SCALE: 1.0001
LINEAR UNIT: US SURVEY FOOT (SFT)

BENCHMARK

CITY OF LAS VEGAS VERTICAL CONTROL POINT "01000 2854" BEING A RIVET & PLATE IN TOP OF CURB AT NW CORNER OF WESTCLIFF & CIMARRON.

ELEVATION: 2551.98 FEET
777.844 METERS

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007)
BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)



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FIREARM AND HAZARDOUS
SYSTEM OF TRANSPORTATION

Call before you Dig
811
1-800-227-2600



NOTE:

ADVANTAGE CIVIL DESIGN GROUP ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITIES SHOWN OR NOT SHOWN. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM RECORD INFORMATION AND ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY BOTH THE HORIZONTAL AND VERTICAL LOCATION OF ALL RELEVANT UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. IF A CONFLICT OR DISCREPANCY IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IMMEDIATELY.

WATER

1. INSTALL C-900 PVC, SIZE PER PLAN.
2. INSTALL 8" 11.25" BEND W/ THRUST BLOCK PER UDACS PLATE 31.
3. INSTALL 8" 22.5" BEND W/ THRUST BLOCK PER UDACS PLATE 31.
4. INSTALL 8" 45" BEND W/ THRUST BLOCK PER UDACS PLATE 31.
5. INSTALL 8" 90" BEND W/ THRUST BLOCK PER UDACS PLATE 31.
6. INSTALL 3" WIDE CONCRETE PAD FOR RPPA TO COMPLETELY COVER WATER LATERAL BETWEEN METER AND RPPA
7. INSTALL 8"x8" TEE W/ THRUST BLOCK PER UDACS PLATE 31.
8. INSTALL 8" GATE VALVE PER UDACS PLATES 30 & 39.
9. INSTALL 8" MET TAP PER UDACS PLATES 34 & 35.
10. STUB & CAP W/ 2" BLOW OFF ASSEMBLY PER UDACS PLATE 36.
11. INSTALL PVC TO D.I.P. COUPLER.
12. INSTALL STEEL ENCASED DOUBLE WRAPPED CLASS 53 DIP PER UDACS PLATE #23, SIZE PER PLAN. TRENCH & BACKFILL PER UDACS PLATE 17.
13. INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE 40 AND DETAIL THIS SHEET. INCLUDE ALL VALVES, TEES, THRUST BLOCKS & APPURTENANCES.
14. INSTALL 3/4" METER PER UDACS PLATE #1.
15. INSTALL 3/4" METER (PUBLIC) PER UDACS PLATE 1 W/ 1" RPPA (PRIVATE) PER UDACS PLATE 8. SEE DETAIL 7, SHEET DT2.
16. INSTALL LOCATOR RIBBON PER UDACS 2.17.01B.
17. INSTALL TYPE "C" TESTING STATION PER "S" ON SHEET DE2.
18. INSTALL CLASS 53 DIP, SIZE PER PLAN. TRENCH & BACKFILL PER UDACS PLATE 17.
19. INSTALL 8"x6" REDUCER W/ THRUST BLOCK PER UDACS PLATE 30.
20. CONTRACTOR TO CONNECT TO EXISTING 12" WATER LINE WITH A 12"x8" TAPPING SLEEVE VALVE PER UDACS PLATE 24 & 39, UDACS SECTION 2.24.01A.
21. REMOVE CAP AND BLOW OFF PER UDACS PLATE 36 AND CONNECT TO EXISTING MAIN.
22. INSTALL 12"x8" REDUCER PER UDACS PLATE 30.
23. INSTALL (2) 4" SCHEDULE 40 PVC IRRIGATION SLEEVES (PRIVATE).

SEWER

1. INSTALL SEWER MANHOLE PER DCSWCS SD7.
2. SEWER MAIN SIZE/MATERIAL PER PLAN. TRENCH & BACKFILL PER DCSWCS SD-17.
3. INSTALL 48" TYPE 1 SANITARY SEWER MANHOLE PER DCSWCS SD-1A & SD-4, WITH SINGLE 24" LID.
4. INSTALL 4" SDR-35 SEWER LATERAL & WYE PER DCSWCS SD-22.
5. ABANDON EXISTING MANHOLES AND SEWER MAINS PER DCSWCS SECTION 3.1B, METHOD 3.1B.1 B OR C, AND METHOD 3.1B.2 A.
6. INSTALL SHALLOW MANHOLE PER DCSWCS DWG SD-13, TYPE "A" SHORTY CONE.
7. CONTRACTOR TO INSTALL A MINIMUM OF 4" THICK REINFORCED CONCRETE ENCASEMENT PER DCSWCS STD DWGS SD-14.
8. INSTALL 4" C-900 SEWER LATERAL & WYE PER DCSWCS SD-22 AND UDACS 2.22.02.B.3.0
9. SAWCUT, REMOVE AND REPLACE PAVEMENT PER CCAUSD #500.4.

UTILITY NOTES:

1. FIRE SPRINKLER SYSTEMS SHALL BE PLUMBED TO THE MASTER TOILET. NO EXCEPTION ALLOWED.
2. ALL LOTS ON THIS PROPERTY HAVE A STATIC PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE-REDUCING VALVES BE INSTALLED WHEN EVER THE PRESSURE EXCEEDS 80 PSI. PRIVATE ARE THE DEVELOPERS RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVWD FACILITIES.
3. ALL SERVICES STATIONED AT R/W.
4. P.O.S.T. P.I. = POINT ON SUBSTANTIAL PAST POINT OF INTERSECTION ALONG THE SAME BEARING.

TO INSURE LLVWD ACCESS WITHIN EASEMENT

ALL ABOVE GROUND OBSTRUCTION INCLUDING BUT NOT LIMITED TO, LANDSCAPE BOULDER, FENCES/WALLS, AND SIGNS ARE STRICTLY PROHIBITED WITHIN THE ESMT.

NOTE:

ALL ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF TITLE 19.06 AND 19.08.

LEGEND

CENTER LINE	
RIGHT-OF-WAY	
PROPOSED WATER	PVC W
PROPOSED SEWER	PVC SS
EXISTING WATER	EX. WATER LINE
EXISTING SEWER	EX. SEWER LINE
EXISTING GAS	EX. GAS
PROPOSED SAWCUT	
EXISTING EDGE PWMT	
SANITARY SEWER	SS
WATER	WAT
PRIVATE	PVT
INVERT	INV
ELEVATION	ELEV
MANHOLE	MHV
BACKWATER VALVE	BWV
PRESSURE REDUCING VALVE	PRV

NOTE:

SEE SHEETS NTS FOR TOTAL PROJECT QUANTITIES AND GENERAL NOTES.

APPROVALS

Tan On 11/14/19
SOUTHWEST GAS CORPORATION DATE
* THE DATA CONTAINED HEREIN IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. SOUTHWEST GAS CORPORATION MAKES NO WARRANTIES AND DOES NOT GUARANTEE THE CORRECTNESS, COMPLETENESS, OR USEFULNESS FOR ANY LOSS OR DAMAGE HOWEVER ARISING FROM THE USE OR RELIANCE ON THE DATA PROVIDED. THE FIELD LOCATION AND DEPTH OF ALL SOUTHWEST GAS FACILITIES SHOULD BE VERIFIED.

KA 11-28-19
CITY OF LAS VEGAS FIRE DEPARTMENT DATE

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS. FIRE FLOW 1500 GPM AT 20 P.S.I. RESIDUAL.

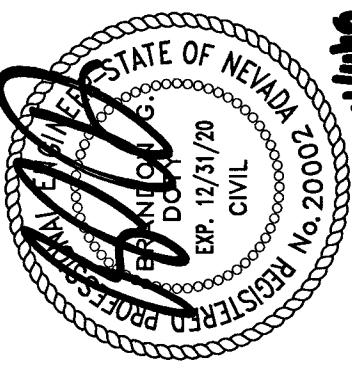
APPROVED FOR CONSTRUCTION

Beffette
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135831 DATE: 11/7/19
LVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 26 GPM

UTILITY PLAN 2

BLM 33

BY D.R. HORTON



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FAX: 702.496.2294
Email: MAIL@ADVANTAGECIVIL-LLP.COM

CIVIL ENGINEERING
CONSULTING
PLANNING

NO.	DATE	DESCRIPTION	COH
1	5/2/19	REVISED RETAINING WALLS, REVISED WATER MAIN DUE TO CONFLICT WITH EXISTING SEWER, SEWER SUBST. ADDED DRY	
2	8/18/19	ADDED IRRIGATION CROSSINGS, REVISED WATER MAIN, ADDED BY JIM TULLY 11/7/19	
JOB NUMBER: 02-043			
DRAWN BY: CW			
DESIGNED BY: CW			
CHECKED BY: BGD			
DATE: 12/2018			
UP2 20 24			

L18-02380 107Y5099

REDROCK HEIGHTS SUBDIVISION
(CLV#107Y-3285)

BASIS OF BEARING
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.
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CITY OF LAS VEGAS VERTICAL CONTROL POINT "OLV00 2854" BEING A RIVET & PLATE IN TOP OF CURB AT NW CORNER OF WESTCLIFF & CIMARRON.
ELEVATION: 2551.98 FEET
777.844 METERS
CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007)
BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

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before you
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Call
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1-800-227-2600
1-702-227-2929



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 4. INSTALL 4" SDR-35 SEWER LATERAL & WYE PER DCSWCS SD-22.
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 6. INSTALL SHALLOW MANHOLE PER DCSWCS DWG SD-13, TYPE "A" SHORTY CONE.
 7. CONTRACTOR TO INSTALL A MINIMUM OF 4" THICK REINFORCED CONCRETE ENCASUREMENT PER DCSWCS STD DWGS SD-14.
 8. INSTALL 4" C-900 SEWER LATERAL & WYE PER DCSWCS SD-22 AND UDACS 2.22.02.B.3.a
 9. SAWCUT, REMOVE AND REPLACE PAVEMENT PER CCAUSD #500.4.
- UTILITY NOTES:**
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APPROVALS

11/14/19
DATE
SOUTHWEST GAS CORPORATION

11-21-19
DATE
CITY OF LAS VEGAS FIRE DEPARTMENT

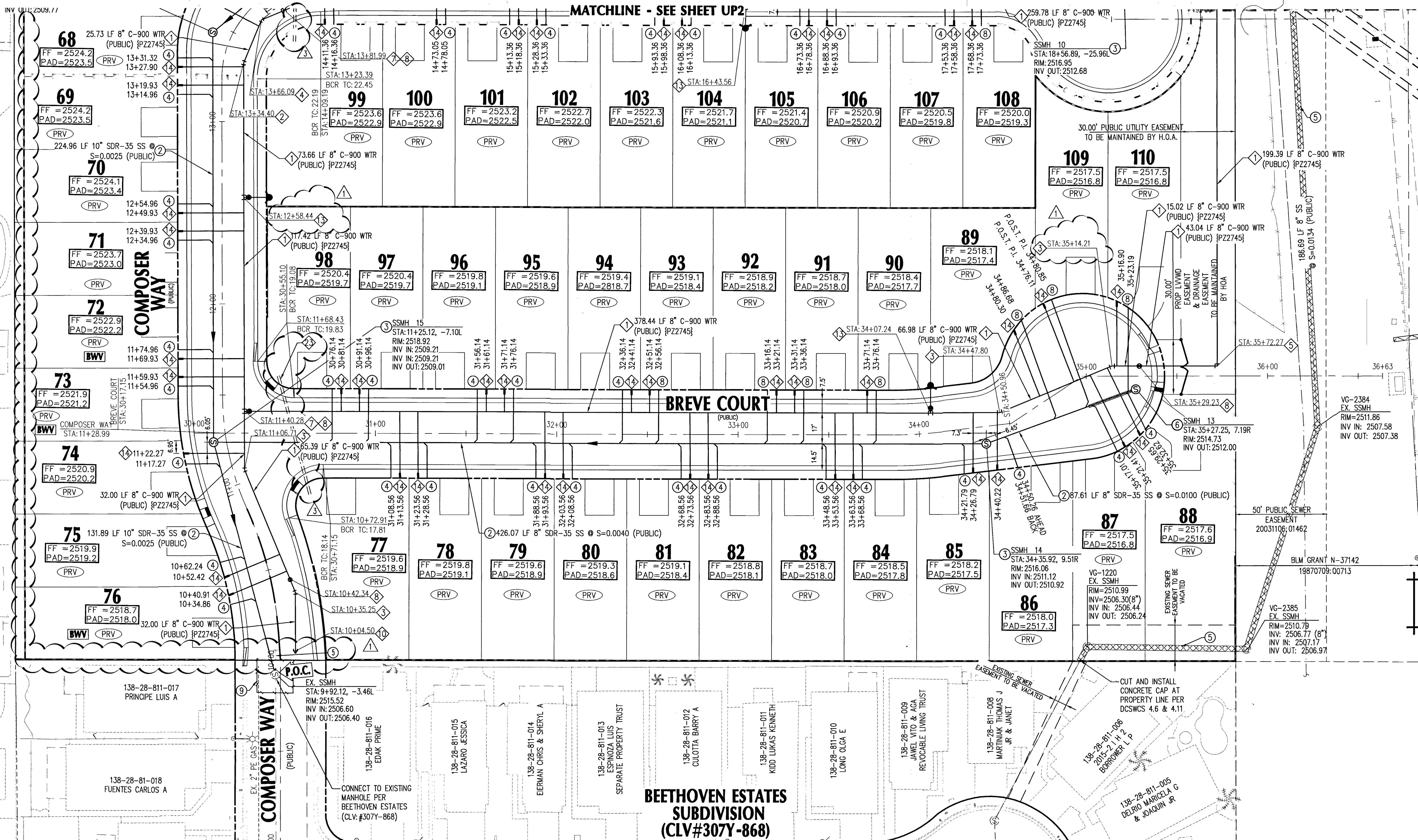
APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS. FIRE FLOW 1500 GPM AT 20 P.S.I. RESIDUAL.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135831 DATE: 11/27/19
DRAWN BY: CW
DESIGNED BY: CW
CHECKED BY: BCD
DATE: 12/20/18

JOB NUMBER: 02-043
DRAWN BY: CW
DESIGNED BY: CW
CHECKED BY: BCD
DATE: 12/20/18

UP3 21 24

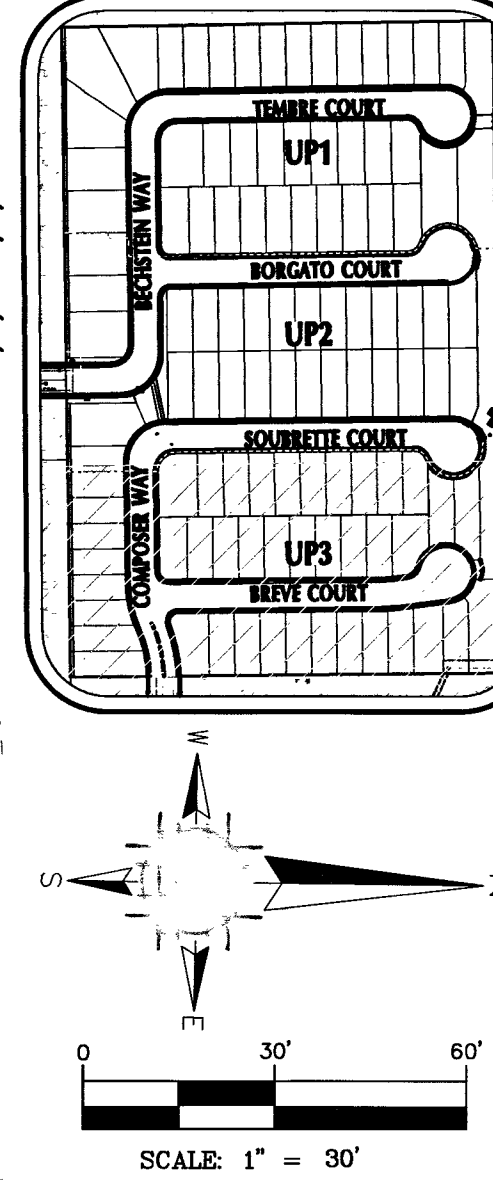


LEGEND

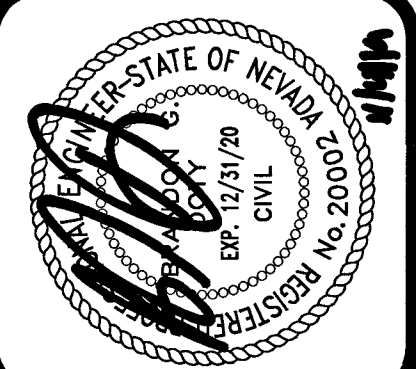
CENTER LINE
RIGHT-OF-WAY
PROPOSED WATER
PROPOSED SEWER
EXISTING WATER
EXISTING SEWER
EXISTING GAS
PROPOSED SAWCUT
EXISTING EDGE PAVT
SANITARY SEWER
WATER
PRIVATE
INVERT
ELEVATION
MANHOLE
BACKWATER VALVE
PRESSURE REDUCING VALVE

PVC W
PVC SS
EX. WATER LINE
EX. SEWER LINE
EX. GAS
SS
WAT
PVT
INV
ELEV
MH
BWV

NOTE:
SEE SHEETS NTS FOR TOTAL PROJECT QUANTITIES AND GENERAL NOTES.

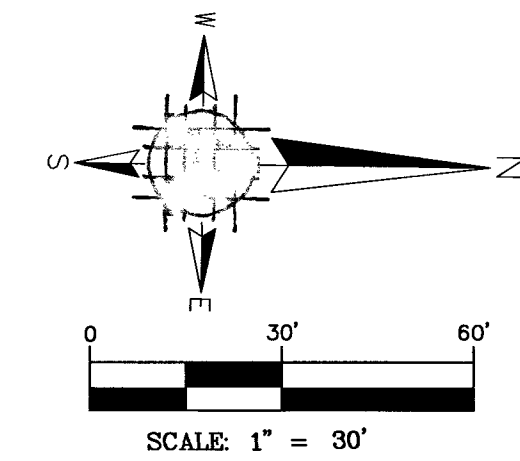


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2920 N. GREEN VALLEY FRNTY. BLDG. 4 STE. # 422
HENDERSON, NEVADA 89014
Office: 702.492.2224
Fax: 702.496.2224
Email: MAIL@ADVANTAGECIVIL-NEV.COM
CONSULTING
CIVIL ENGINEERING

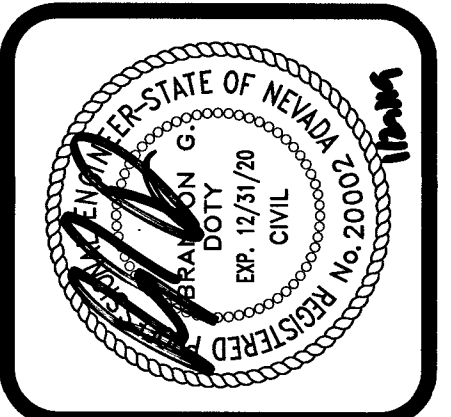


UTILITY PLAN 3
BLM 33
BY D.R. HORTON

This map shows the 'Old Town' area, bounded by Embarcadero to the north, Broadway to the south, and the waterfront to the east. Key streets include Broadway, Columbus Way, and Buchanan Way. Courtyards shown are Embarcadero Courty, Borgato Courty, and Soudbrette Courty. The map also indicates the location of the 'Old Town' area relative to the waterfront and the city grid.



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Fax 702.456.2224
Email: info@advantagetcivil-nv.com
CONSULTING PLANNING
CIVIL ENGINEERING



STREETLIGHT & SIGNAGE PLAN 1

BLM 33

BY D.R. HORTON

[illegible]

BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, LAS VEGAS DATUM OF 1983 AND MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE
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CENTRAL MERIDIAN: 114°58'00" W
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STANDARD PARALLEL SCALE: 1.0001
LINEAR UNIT: US SURVEY FOOT (SFT)

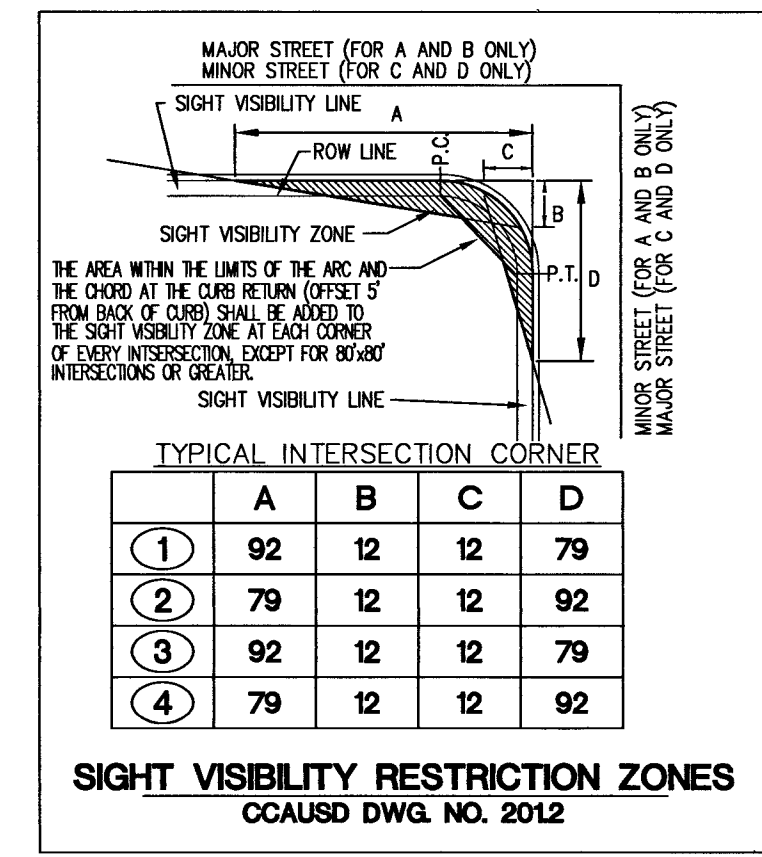
BENCHMARK

CITY OF LAS VEGAS VERTICAL CONTROL POINT "0LV00 2854" BEING A RIVET & PLATE IN TOP OF CURB AT NW CORNER OF WESTCLIFF & GWARRON.

ELEVATION: 2551.98 FEET
177,844 METERS

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007)
BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

SERVICE POINT CAPACITY	=	60	AMPS	SERVICE POINT CAPACITY	=	60	AMPS
MAXIMUM ALLOWABLE DRAW (.80) x 60 AMPS	=	48	AMPS	MAXIMUM ALLOWABLE DRAW (.80) x 60 AMPS	=	48	AMPS
EXISTING CIRCUIT LOAD	=	31	AMPS	EXISTING CIRCUIT LOAD	=	7	AMPS
PROPOSED LUMINAIRE LOAD TO CIRCUIT (INDUCTION LIGHTS)				PROPOSED LUMINAIRE LOAD TO CIRCUIT (INDUCTION LIGHTS)			
(10) NUMBER OF 100 WATTS @ 1.00 AMPS	=	10	AMPS	(8) NUMBER OF 100 WATTS @ 1.00 AMPS	=	8	AMPS
(0) NUMBER OF 150 WATTS @ 1.25 AMPS	=	0	AMPS	(0) NUMBER OF 150 WATTS @ 1.25 AMPS	=	0	AMPS
(0) NUMBER OF 250 WATTS @ 1.5 AMPS	=	0	AMPS	(0) NUMBER OF 250 WATTS @ 1.5 AMPS	=	0	AMPS
(0) NUMBER OF 400 WATTS @ 3.9 AMPS	=	0	AMPS	(0) NUMBER OF 400 WATTS @ 3.9 AMPS	=	0	AMPS
TOTAL PROPOSED LOAD	=	10	AMPS	TOTAL PROPOSED LOAD	=	8	AMPS
EXISTING PLUS PROPOSED LOAD	=	41	AMPS	EXISTING PLUS PROPOSED LOAD	=	15	AMPS
REMAINING AVAILABLE LOAD	=	7	AMPS	REMAINING AVAILABLE LOAD	=	33	AMPS



SIGHT VISIBILITY NOTE:

NO WALLS, FENCES, TREES, SHRUBS UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE, UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTING, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE.

NOTE:

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2. SEE SHEET SSI FOR STREETLIGHT LOAD CALCULATIONS.
3. SEE SHEET 2 FOR TOTAL PROJECT QUANTITIES AND GENERAL NOTES.

CONSTRUCTION NOTES

- ① INSTALL 9" D-3 STREET NAME SIGNS. INITIAL UPPER CASE LETTER IS 8" SERIES C AND LOWERCASE LETTERS ARE 6" SERIES C.
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- ④ INSTALL STANDARD 1 1/4" STREETLIGHT CONDUIT WITH 2 #4 AND 1 #8 THW COPPER CONDUCTOR
- ⑤ INSTALL NO 3 1/2 PULL BOX PER CCAUSD #326.
- ⑥ RED PAINTED CURB FROM CENTERLINE OF HYDRANT FOR TOTAL OF 30' (CURB LENGTH PERMITTING) AND WHERE ROAD WIDTH DOES NOT ALLOW PARKING. STENCIL "NO PARKING - FIRE LANE" IN 4" WHITE LETTERS EVERY 50 LF.
- ⑦ INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKER ADJACENT TO THE FIRE HYDRANT ON ALL IMPROVED FIRE APPARATUS ACCESS ROADWAYS WITH HARD SURFACES, INCLUDING BOTH PUBLIC AND PRIVATE ROADS, STREETS, OR FIRE LANES.
- ⑧ HATCHED AREA DENOTES SIGHT VISIBILITY ZONE PER CCAUSD #201.2.
- ⑨ EXISTING LUMINAIRE
- ⑩ REMOVE EXISTING TYPE III BARRICADE.



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POWER LINES. IT'S COSTLY.

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APPROVALS

SI

  1-31-9

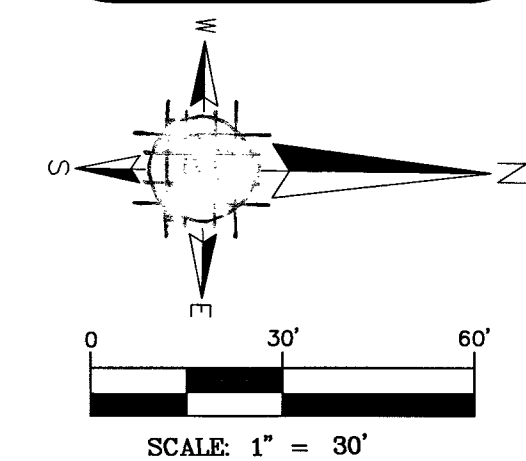
CITY OF LAS VEGAS FIRE DEPARTMENT DATE

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS. FIRE FLOW 1500 GPM AT 20 P.S.I. RESIDUAL.

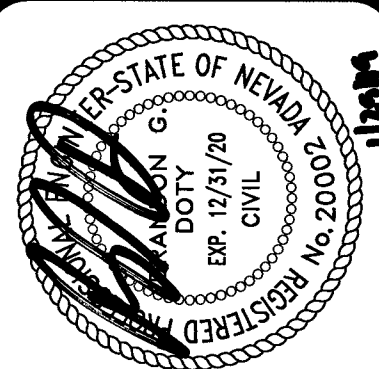
LEGEND

	PROP. STREET LIGHT CONDUIT		STREET NAME SIGN		R1-1 "STOP SIGN"
	PRIVATE STREET ESMT.		R1-1 "STOP SIGN" WITH D3's		
	R.O.W		TRAFFIC SIGN		MATCHLINE
	PROPOSED 100W HPS SINGLE STREETLIGHT ASSEMBLY PER USD 314 OR 316.		SIGHT VISIBILITY ZONE		
	PROPOSED SERVICE PEDESTAL.				
	PROPOSED PULLBOX PER USD 326.				
	BLUE REFLECTOR				

L18-02380 107V5099



ADVANTAGE CIVIL DESIGN GROUP, LLP
2920 N. GREEN VALLEY FRWY, BLDG. # 515, # 422
HENRIKSON, NEVADA 89014
Office: 702.492.2294
Fax: 702.496.2294
Email: MAIL@ADVANTAGECIVIL-NV.COM
CONSULTING
P.L.L.C.



STREETLIGHT & SIGNAGE PLAN 2

BLM 33
BY D.R. HORTON

BASIS OF BEARING

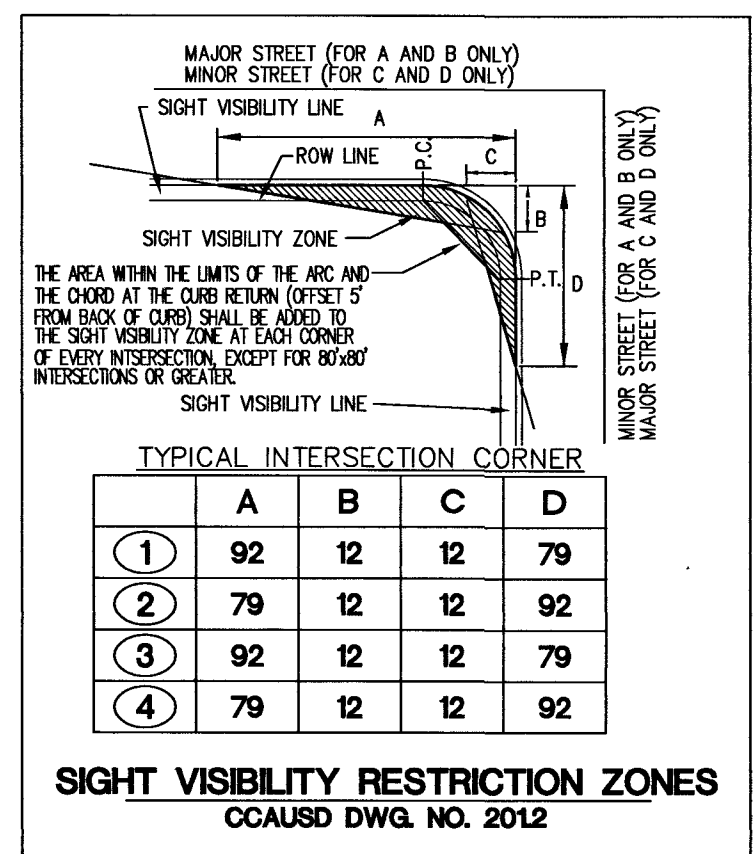
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0
 ZONE: LAS VEGAS ZONE
 STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
 CENTRAL MERIDIAN: 114°58'00" W
 FALSE NORTHING: 200,000 METERS
 FALSE EASTING: 100,000 METERS
 STANDARD PARALLEL SCALE: 1.0001
 LINEAR UNIT: US SURVEY FOOT (SFT)

BENCHMARK

ELEVATION: 2551.98 FEET
777.844 METERS

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007)
BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

**SIGHT VISIBILITY NOTE:**

NO WALLS, FENCES, TREES, SHRUBS UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE, UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTING, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE.

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- ⑩ REMOVE EXISTING TYPE III BARRICADE.
- ⑪ INSTALL W14-2 (NO OUTLET) SIGN

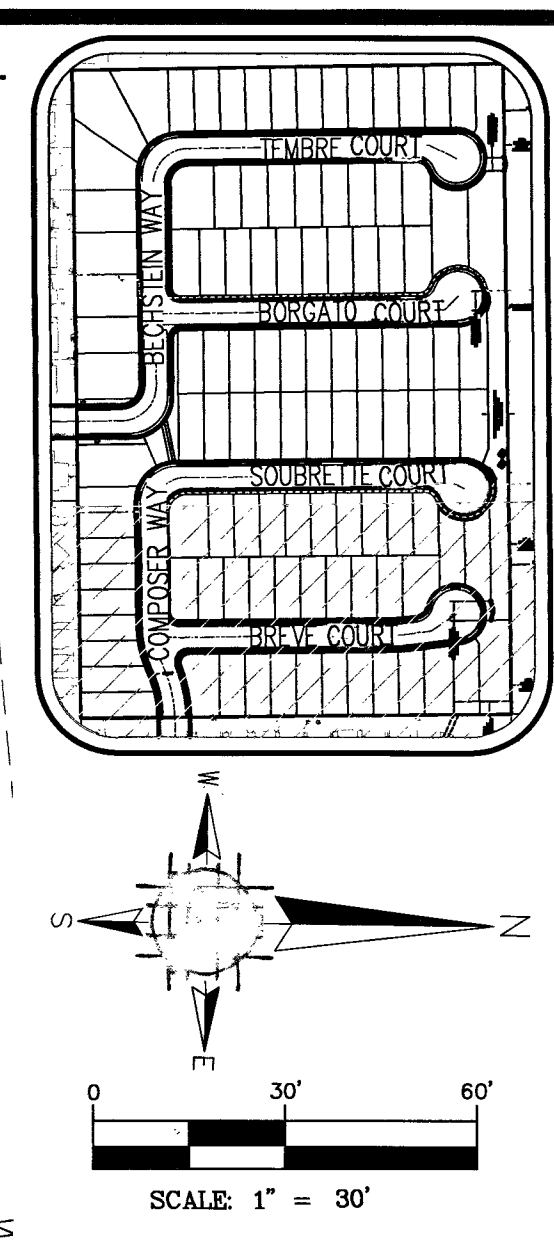
APPROVALS


CITY OF LAS VEGAS FIRE DEPARTMENT

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FIRE FLOW 1500 GPM AT 20 P.S.I. RESIDUAL.

L18-02380 107V5099

[illegible]



BASIS OF BEARING
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

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STANDARD PARALLEL SCALE: 1.0001
LINEAR UNIT: US SURVEY FOOT (SFT)

BENCHMARK
LAS VEGAS VERTICAL CONTROL POINT "QVOD 2854" BEING A RIVET & PLATE IN TOP OF CURB AT NW CORNER OF WESTCLIFF & CIMARRON.

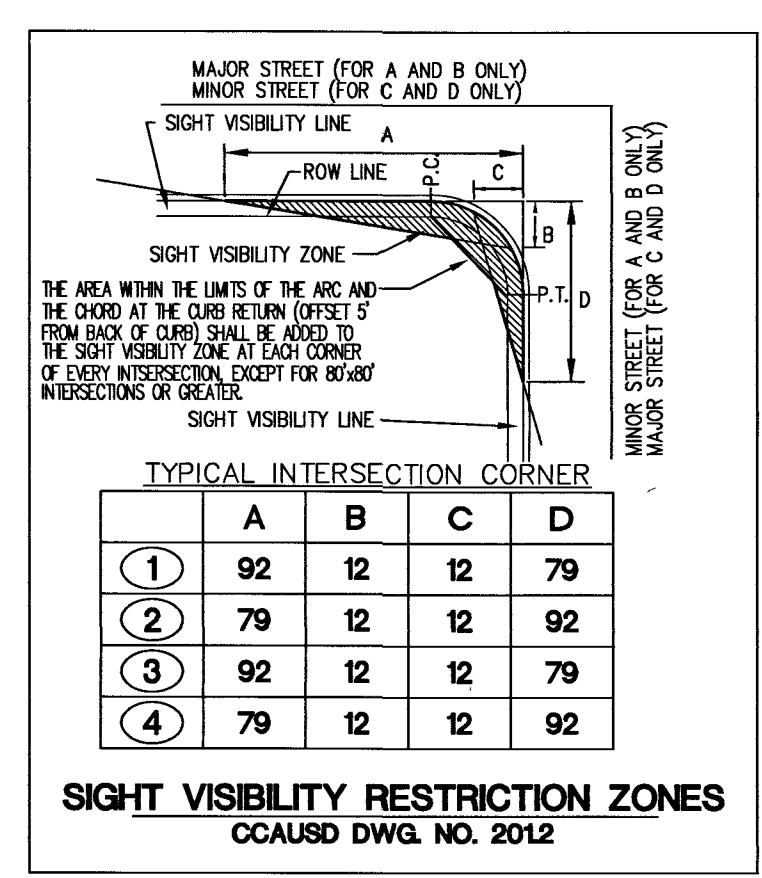
ELEVATION: 2551.98 FEET
777.844 METERS

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007)
BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

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LEGEND

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- PRIVATE STREET ESMT.
- R.O.W.
- PROPOSED 100W HPS SINGLE STREETLIGHT ASSEMBLY PER USD 314 OR 316.
- PROPOSED SERVICE PEDESTAL.
- PROPOSED PULLBOX PER USD 326.
- BLUE REFLECTOR

- STREET NAME SIGN
- R1-1 "STOP SIGN" WITH D3's
- TRAFFIC SIGN
- MATCHLINE
- SIGHT VISIBILITY ZONE

STOP

R1-1 "STOP SIGN"

APPROVALS

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DATE: 12/20/18

ADVANTAGE CIVIL DESIGN GROUP, LLP
2920 N. GREEN VALLEY PARKWAY, 4TH FLOOR, SUITE 402
HENDERSON, NEVADA 89014
Office: 702.452.2294
Fax: 702.496.2294
Email: info@advantagecivil-nv.com
CONSULTING

STATE OF NEVADA
JAN 12 2019
ADVANTAGE CIVIL
DESIGNED BY: BGD
CHECKED BY: BGD
DATE: 12/20/18

STREETLIGHT & SIGNAGE PLAN 3

BLM 33

BY D.R. HORTON

NO.	DATE	REVISIONS	DESCRIPTION

JOB NUMBER: 02-043
DRAWN BY: CW
DESIGNED BY: BGD
DATE: 12/20/18

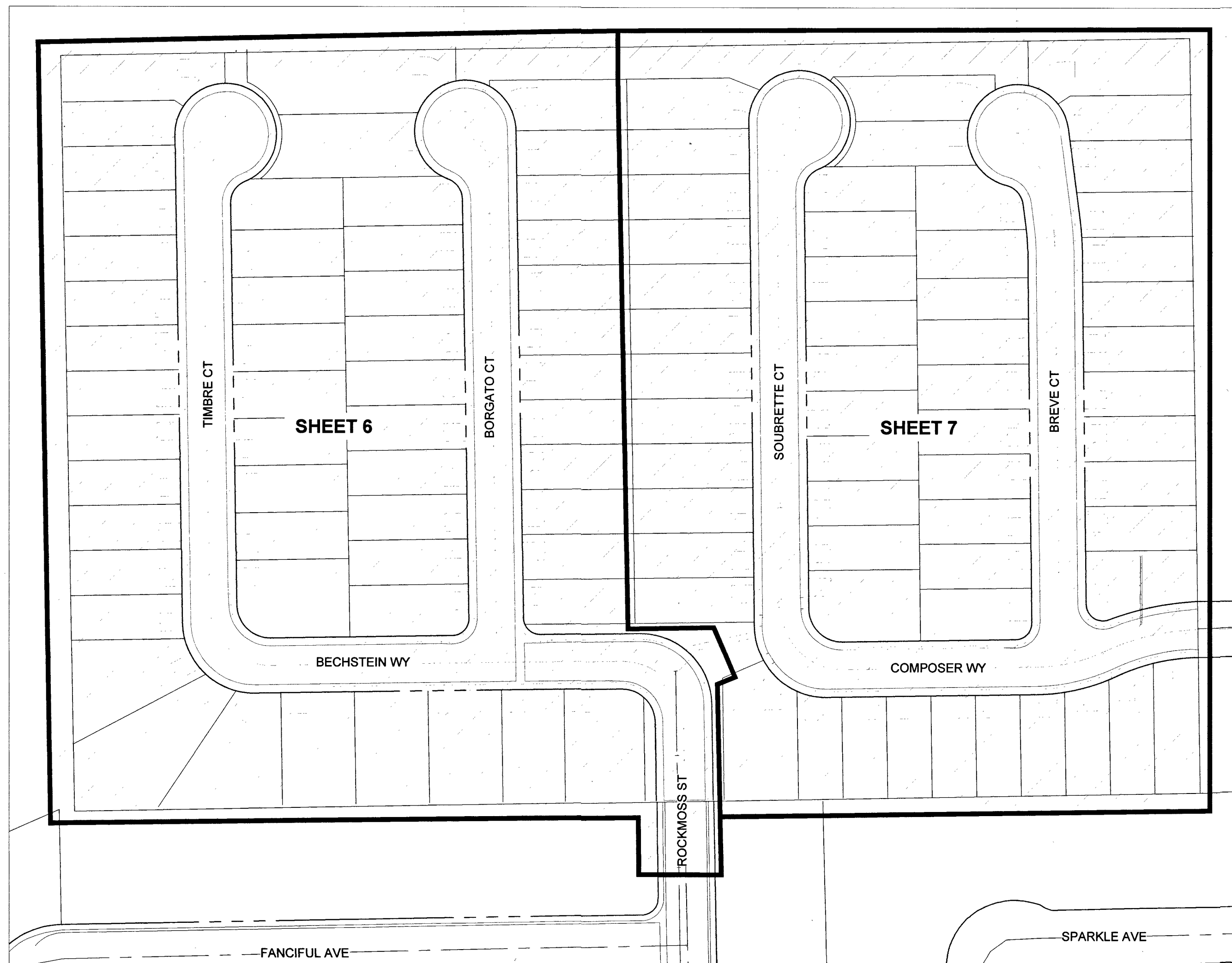
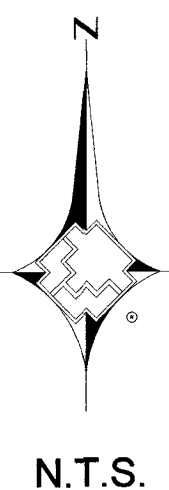
SS3

24

24

LEGEND

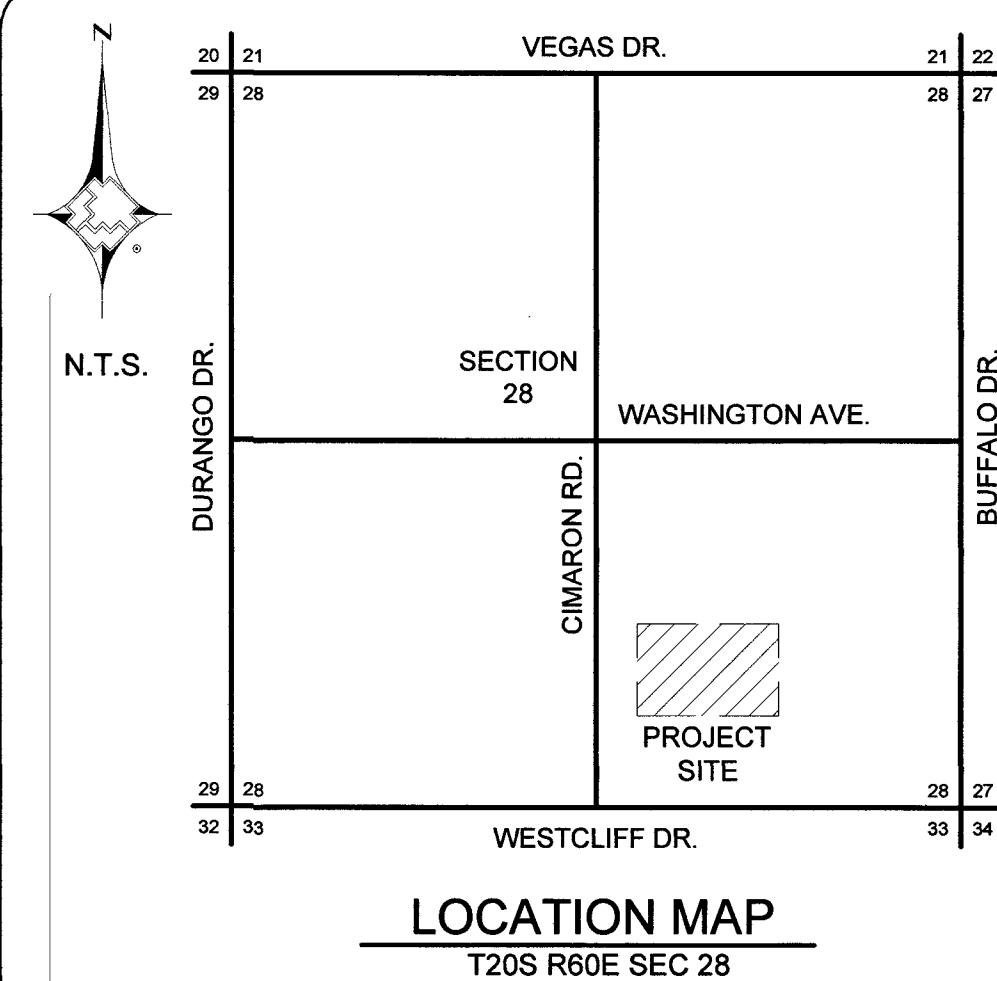
EXISTING GAS MAIN	
EXISTING GAS SERVICE	
GAS LINE TO BE ABANDONED	
STEEL RISER	
ANODELESS RISER	
GASLIGHT	
GAS VALVE	
EXCESS FLOW VALVE	
RELIEF VALVE	
COUPLINGS	
BOND OVER	
TEST POINT	
INSULATOR	
REGULATOR STATION	
RECTIFIER	
ANODE	
SCADA	
METER SET ASSEMBLY	
PURGE POINT	
BRANCH,CVT,LINE STOPPER	
GAS LINE TO BE ABANDONED	
PROPOSED GAS MAIN	
PROPOSED GAS SERVICE	
EXISTING EASEMENT	
ROW LINE	
PROPERTY LINE	
STREET CENTERLINE	
EDGE OF PAVEMENT	
CABLE LINE - UNDERGROUND	
ELECTRIC - OVERHEAD	
ELECTRIC - UNDERGROUND	
FIBER OPTIC - UNDERGROUND	
PHONE - OVERHEAD	
PHONE - UNDERGROUND	
RECLAIMED WATER	
SEWER	
STORMWATER	
WATER	
UTILITY PEDESTALS	
FIRE HYDRANT	
MANHOLE	
WATER VALVE	
SURVEY MONUMENT	
POWER POLE	
GAS FLOW ARROW	



SHEET INDEX MAP

SHEET INDEX

- 1 COVERSHEET
- 2 SIGNATURE SHEET
- 3-5 NOTES AND STANDARD DETAILS
- 6-7 PLAN SHEETS



City of Las Vegas

Total footage located in Public ROW 3,045'

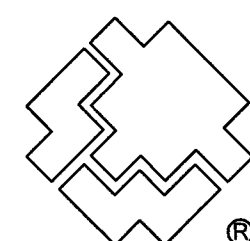
APPROVED FOR CONSTRUCTION
THIS APPROVAL IS FOR WORK IN CLV RW OR CLV
EASEMENTS ONLY. OBTAINING PERMISSION OR
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IS THE RESPONSIBILITY OF THE UTILITY.

Approval *[Signature]* Date 7/25/19

CUSTOMERS 110



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REVISIONS						D_W_VALLEY		JOB TYPE		WR NO.		ENGINEER/TECHNICIAN		AMANDA HENDERSON		PHONE: (702) 365-2152		
						SYSTEM MAOP:	60	HP SERVICE	☐	3771778		ACCOUNT REP.		TONY STIPANOV		PHONE: (702) 365-2053		
						SYSTEM MOP:	55	DISTRIBUTION	☒			PROJECT CONTACT		DAVE VON OY				PHONE: (702) 376-7577
NO.	DESCRIPTION				BY	DATE	APPVD.			SHEET NO. 1 OF 7		SCALE		N.T.S.		DATE 05/23/2019		
										DWN. BY SEI		CHKD. BY AH				APPVD. BY BWJ		
PERMIT INFORMATION		ISOLATION AREA	LOCATION	ATLAS OR TILE				FEEDER		☐		RELATED WR NO.S						
CITY OF LAS VEGAS TAX CODE: 02-0200		ISO_21_DIST_232	T20S R60E SEC 28 M.D.M.	x591y518		SYSTEM MAOP:		TRANS. BY DEF		☐				BLM 33				
						SYSTEM MOP:		TRANS > 20%		☐								
										☐				L18-02380 107Y5099				

25

CONSTRUCTION	
INSPECTOR _____	PJO# _____
FOREMAN _____	PJO# _____
REVIEWED BY _____	PJO# _____

26

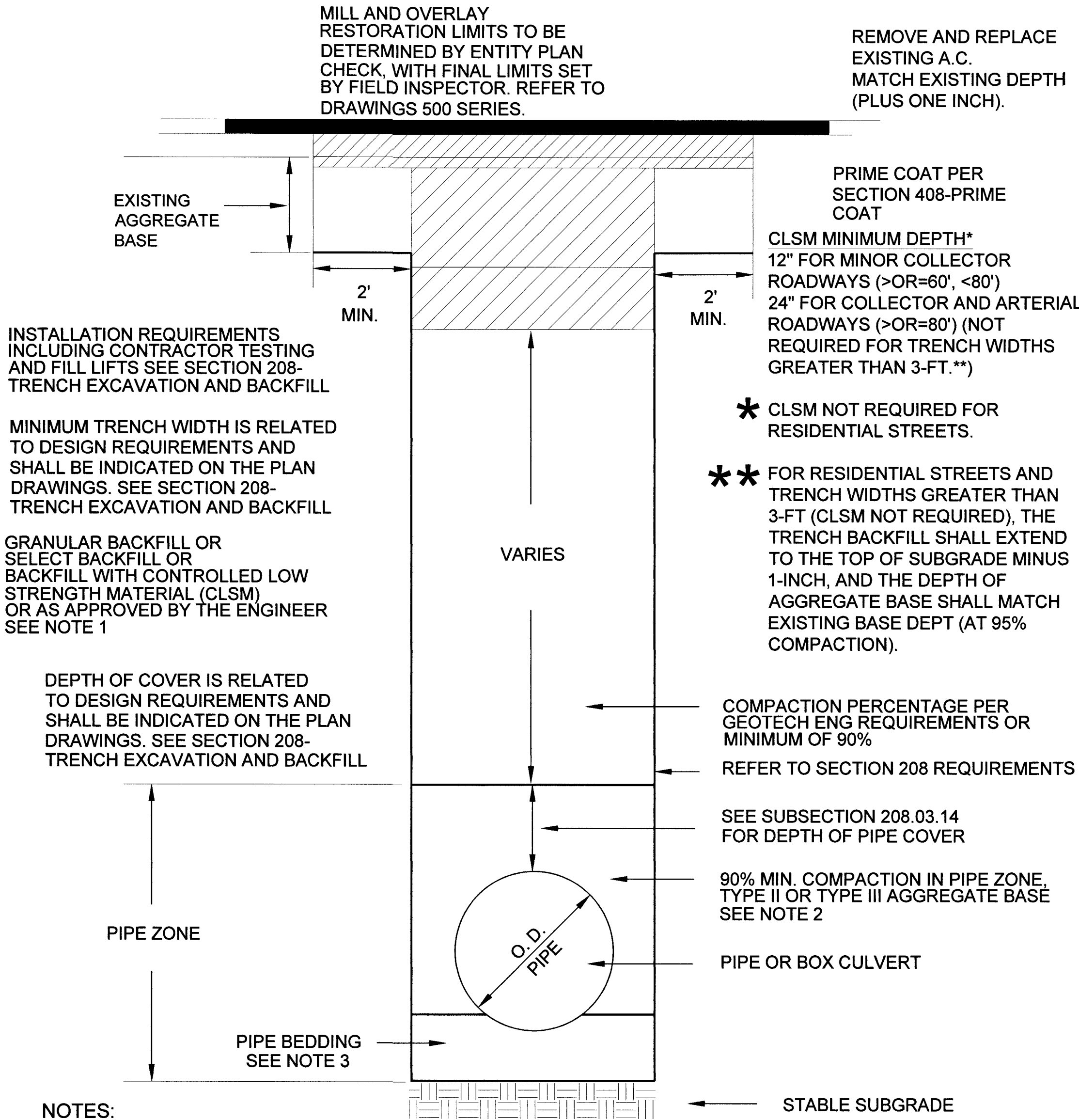
- GENERAL NOTES:
1. SUGGESTED GAS LOCATIONS ARE TO CLEAR SUBSTRUCTURES. LOCATE IN FIELD.
 2. ALL PIPELINE CONSTRUCTION SHALL CONFORM TO APPLICABLE JURISDICTION SPECIFICATIONS..
 3. DO NOT SCALE THIS DRAWING.
 4. CHANGE IN PROPOSED MAIN LOCATION MUST BE AUTHORIZED BY SWG ENGINEER PRIOR TO INSTALLATION.
 5. GAS MAINS SHALL BE PURGED PER OPERATIONS MANUAL.
 6. ALL EXISTING UTILITY LOCATIONS TO BE VERIFIED PRIOR TO START OF CONSTRUCTION.
 7. TRENCH IS TO BE EXCAVATED TO THE DEPTH AND WIDTH AS INDICATED ON THE TRENCH DETAIL(S).
 8. CONTACT ENGINEERING FOR BYPASS INFORMATION.
 9. ALL MAIN TIE-INS REQUIRING TEES ARE TO BE FULL-FLOW TEES UNLESS OTHERWISE STATED..
 10. ALL SHORING REQUIREMENTS SHALL CONFORM TO APPLICABLE PORTIONS OF THE OPERATIONS MANUAL.
 11. REQUEST FOR SURVEYING AND/OR STAKING WILL BE SUBMITTED TO ENGINEERING 72 HOURS IN ADVANCE, MINIMUM.
 12. TRENCHING AND PAVEMENT REPLACEMENT SHALL CONFORM WITH RTC STANDARD 503. AND UNIFORM STANDARD SPEC SECTION 208.
 13. MINIMUM TEST DURATION REQUIREMENTS AND GUIDELINES FOR MAIN INSTALLATION IN SYSTEMS <60PSIG ARE:

A. MINIMUM TEST DURATION IS 8 HOURS FOR PIPES 1-1/4-INCHES OR GREATER, WITH FOOTAGES BETWEEN 3,001 FEET AND 10,000 FEET.

B. ALL FOOTAGES GREATER THAN 3,000 FEET REQUIRE A CHART.

C. CONSTRUCTION SHALL CONTACT ENGINEERING FOR MINIMUM TEST DURATIONS IF THE FOOTAGE TO BE TESTED EXCEEDS 10,000 FEET.

DESIGN PIPE SUMMARY	
DESIGN QTY.	DESCRIPTION
3,045'	2" PE8100
2,124'	1" PE8100



NOTES:

1. NO STONES OR LUMPS GREATER THAN 3" PERMITTED IN TRENCH 2' OR LESS IN WIDTH.
2. TRENCH WIDTH, BEDDING, SUBGRADE AND PIPE ZONE REQUIREMENTS FOR UTILITY INSTALLATIONS SHALL CONFORM TO THE RESPECTIVE ENTITY REQUIREMENTS.
3. CRUSHED ROCK MAY BE USED FOR PIPE BEDDING ONLY IF MATERIAL USE HAS BEEN SPECIFICALLY APPROVED BY THE GOVERNING AGENCY. SEE STANDARD DRAWING NO. 505 FOR PIPE BEDDING METHODS.
4. LAS VEGAS VALLEY WATER DISTRICT REQUIRES PIPE BEDDING AND BACKFILL WITHIN THE PIPE ZONE TO BE OF THE SAME MATERIAL.

RTC STD DWG 503

ABBREVIATIONS:

AA ALDYL-A PIPE
ABND ABANDONED
AC ASPHALTIC CONCRETE
ACP ACCELERATED CONSTRUCTION
APN ASBESTOS CEMENT PIPE
APN ASSESSOR PARCEL NUMBER

BLVD BOULEVARD
BM BENCHMARK
BO BLOW OFF
BTU BRITISH THERMAL UNIT

CIP CAST IRON PIPE
CL CENTERLINE
CMP CORRUGATED METAL PIPE
CP CATHODIC PROTECTION

D INSIDE DIAMETER
DDCA DESIGN DATA COLLECTION APPLICATION
DET DETAIL
DIP DUCTILE IRON PIPE
DIA DIAMETER
DIMP DISTRIBUTION INTEGRITY MANAGEMENT PROGRAM
DP DESIGN PRESSURE
DWG DRAWING

EFV EXCESS FLOW VALVE
EG EXISTING GRADE
ELEC ELECTRICAL
ELEV ELEVATION
EMS ELECTRONIC MARKING SYSTEM
E.P END POINT
EPR ELECTRONIC PRESSURE RECORDERS
ESMT EASEMENT
EX EXISTING

FERC FEDERAL ENERGY REGULATORY COMMISSION
FH FIRE HYDRANT

GIR GAS INFRASTRUCTURE REPLACEMENT
GPR GAS PRESSURE REGULATOR

HCA HIGH CONSEQUENCE AREA
HDD HEATING DEGREE DAY
HDPE HIGH DENSITY POLYETHYLENE PIPE
HP HIGH PRESSURE
HOP HISTORIC OPERATING PRESSURE
HVTT HIGH VOLUME TAPPING TEE

IN INCH(ES)
IPS IRON PIPE SIZE

JT JOINT TRENCH

MAOP MAXIMUM ALLOWABLE OPERATING PRESSURE
M&C MEASUREMENTS & CONTROL
MCFH THOUSAND CUBIC FEET PER HOUR
MH MANHOLE
MOP MAXIMUM OPERATING PRESSURE
MP MANUFACTURER'S PRESSURE RATING
MSA METER SET ASSEMBLY
MVP MAPPING VERIFICATION PROCEDURE

NAP NOT A PART

NTSB NATIONAL TRANSPORTATION SAFETY BOARD
NTS NOT TO SCALE
OC ON CENTER
OD OUTSIDE DIAMETER
OH OVERHEAD
OHE OVERHEAD ELECTRIC

P POWER
PAOP POTENTIAL ALLOWABLE OPERATING PRESSURE
PCC PORTLAND CEMENT CONCRETE
PE POLYETHYLENE PIPE
PH POT HOLE

PHMSA PIPELINE & HAZARDOUS MATERIALS SAFETY ADMINISTRATION
PL PROPERTY LINE
PIC POTENTIAL IMPACT CIRCLE
PLS PRESSURE LIMITING STATION
P.O.B POINT OF BEGINNING
PP POWER POLE
PROP PROPOSED
PQF PREQUALIFIED FITTING
PSIG POUNDS PER SQUARE INCH (GAUGE)
PVC POLYVINYL CHLORIDE
PUE PUBLIC UTILITY EASEMENT

RC REINFORCED CONCRETE
RCP REINFORCED CONCRETE PIPE
ROW RIGHT OF WAY

SCADA SUPERVISORY CONTROL AND DATA ACQUISITION
SD STORM DRAIN
SDMH STORM DRAIN MANHOLE
SDR STANDARD DIMENSION RATIO
SF SQUARE FOOT
SHT SHEET
SLSV SERVICE LINE SHUT-OFF VALVE
SMYS SPECIFIED MAXIMUM YIELD STRENGTH
SS SANITARY SEWER
SST STAINLESS STEEL
ST STREET
STA STATION
STL STEEL
SWG SOUTHWEST GAS

TDS TEST DATA SHEET
TEL TELEPHONE
TB THRUST BLOCK
TOP TOP OF PIPE
TP TEST POINT
TS TECHNICAL SERVICE NOTE
TRIMP TRANSMISSION INTEGRITY MANAGEMENT PROGRAM
TYP TYPICAL

U.E UTILITY EASEMENT
UGE UNDERGROUND ELECTRIC
UOC UNUSUAL OPERATING CONDITION
USD UNIFORM STANDARD DRAWING
UGT UNDERGROUND TELEPHONE

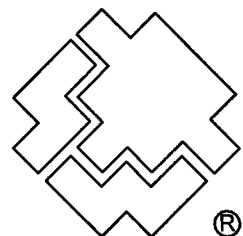
VCP VITRIFIED CLAY PIPE
VERT VERTICAL
VG VALLEY GUTTER
VSP VINTAGE STEEL PIPE

W WATER
WMS WORK MANAGEMENT SYSTEM
WR WORK REQUEST
WT WALL THICKNESS
WV WATER VALVE

YD YARD(S)



Know what's below.
Call before you dig.



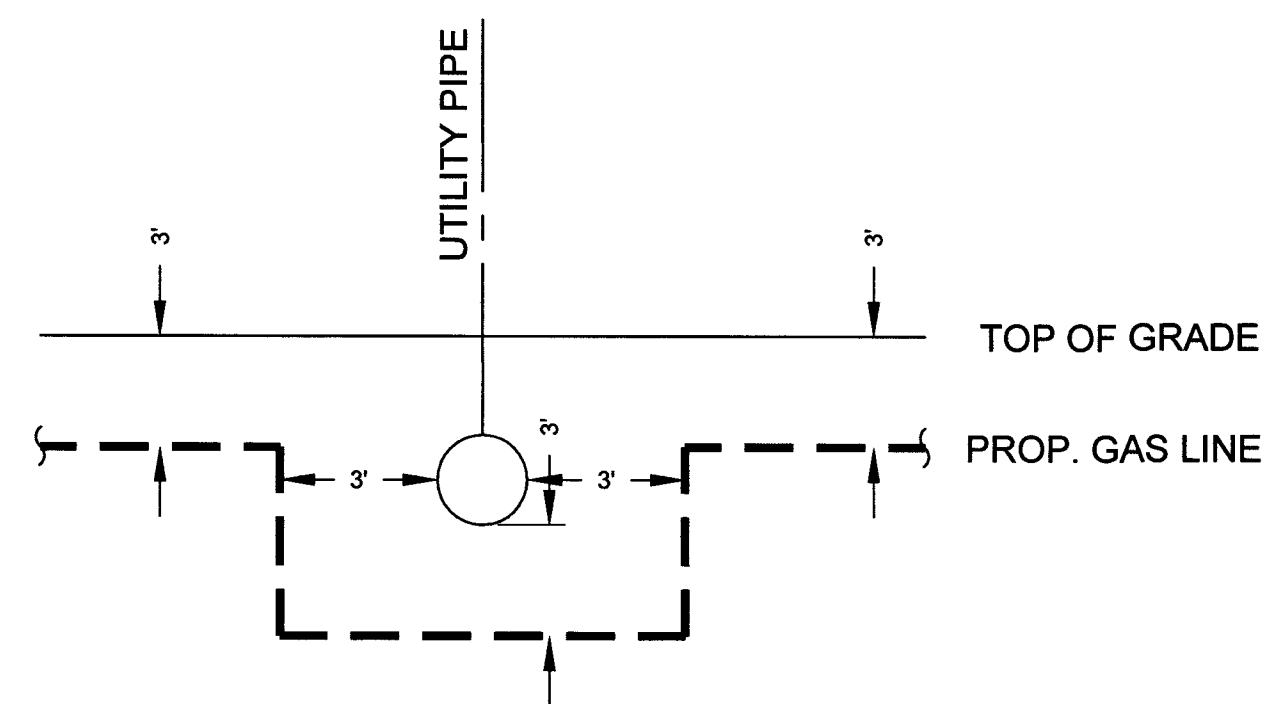
SOUTHWEST GAS CORPORATION

Southwest Gas Corporation Confidential and Proprietary Information

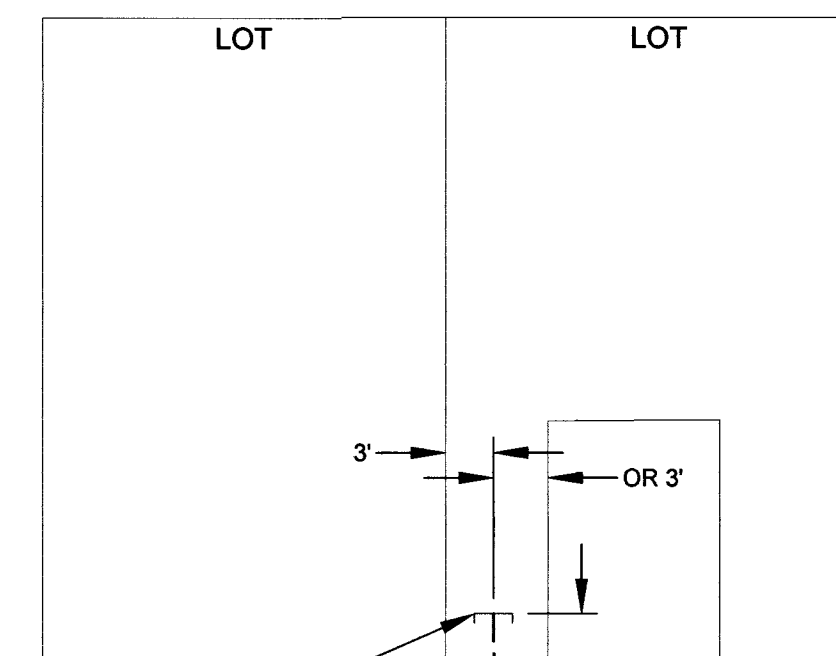
For Reference Only - Not Valid for Line Locating Purposes. No representation or warranty is made for the adequacy, accuracy or completeness of the information or depictions shown. This information is protected from further disclosure under the federal Freedom of Information Act and the Protected Critical Infrastructure Information Act of 2002, and Nevada Revised Statutes § 239C.

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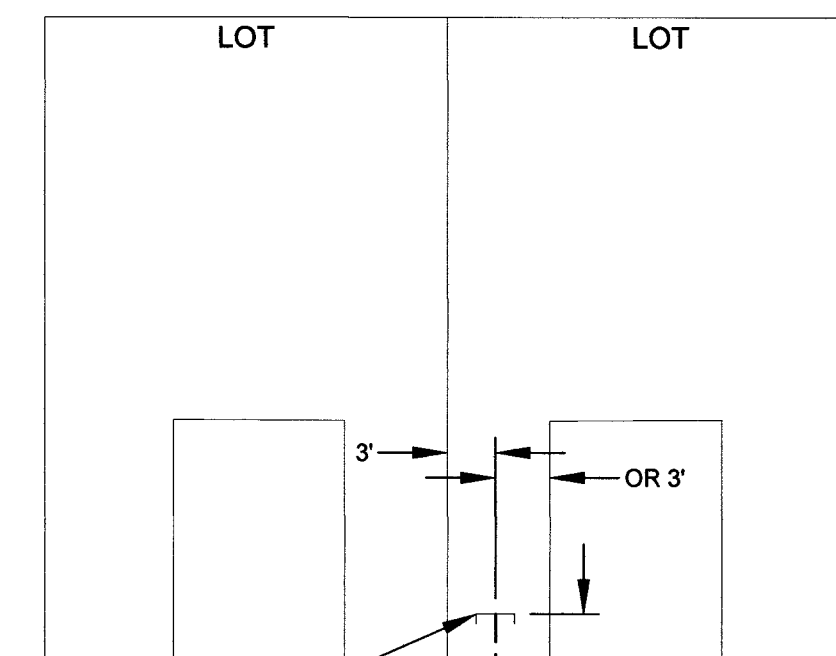
REVISIONS					D_W_VALLEY		JOB TYPE		WR NO.		ENGINEER/TECHNICIAN		AMANDA HENDERSON		PHONE: (702) 365-2152		
												ACCOUNT REP.		TONY STIPANOV		PHONE: (702) 365-2053	
												PROJECT CONTACT		DAVE VON OY		PHONE: (702) 376-7577	
												SHEET NO. 3 OF 7		SCALE N.T.S.		DATE 05/23/2019	
NO.	DESCRIPTION				BY	DATE	APPVD.					DWN. BY SEI		CHKD. BY AH		APPVD. BY BWJ	
PERMIT INFORMATION		ISOLATION AREA		LOCATION		ATLAS OR TILE				RELATED WR NO.S		BLM 33 118-02380 107Y5099					
CITY OF LAS VEGAS TAX CODE: 02-0200		ISO_21_DIST_232		T20S R60E SEC 28 M.D.M.		x591y518		SYSTEM MAOP:									
								SYSTEM MOP:									
										FEEDER							
										TRANS. BY DEF							
										TRANS > 20%							



TYPICAL UTILITY CROSSING DETAIL
N.T.S.



**TYPICAL RESIDENTIAL
SINGLE SERVICE
LATERAL DETAIL**
N.T.S.



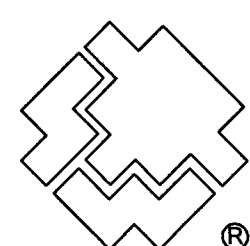
**TYPICAL RESIDENTIAL
BRANCH SERVICE
LATERAL DETAIL**
N.T.S.

2" DISTRIBUTION MATERIALS LIST						
CODE	DESIGN QTY.	AS-BUILT QTY.	STOCK ID	DESCRIPTION	SEAM	COATING
2A	0'	0'	100-5101	2" PE8100 MAIN	N/A	N/A
2F	37	0	160-8394	2" X 1" PE TAPPING TEE W/1800 EFV	N/A	N/A
2G	36	0	160-8577	2" X 1" PE TAPPING TEE W/1200 EFV	N/A	N/A

1 1/4" AND BELOW, DISTRIBUTION MATERIALS LIST						
CODE	DESIGN QTY.	AS-BUILT QTY.	STOCK ID	DESCRIPTION	SEAM	COATING
1A	2,124'	0'	101-8526	1" PE SERVICE	N/A	N/A
1B	73	0'	850-8773	1" PE CAP	N/A	N/A



Know what's below.
Call before you dig.



SOUTHWEST GAS CORPORATION

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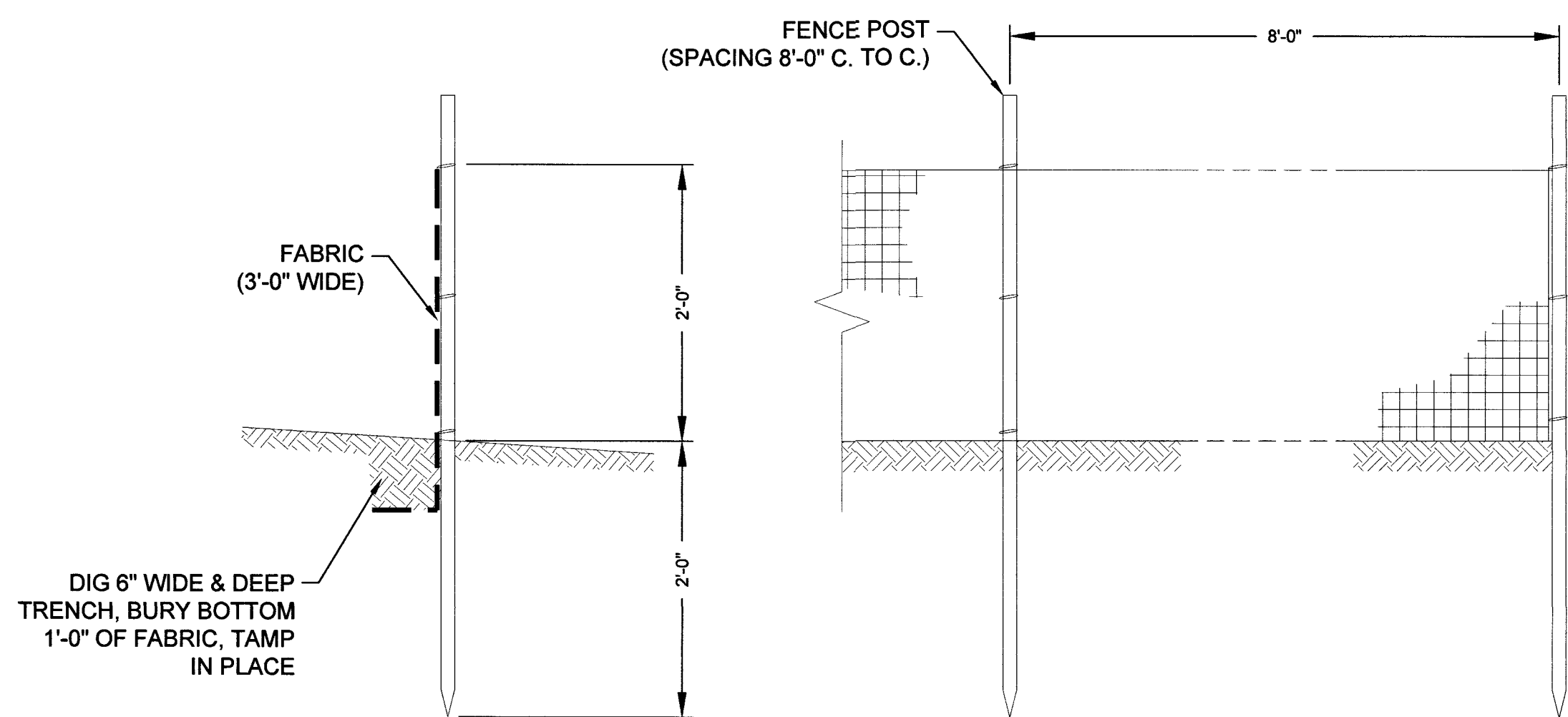
For Reference Only - Not Valid for Line Locating Purposes. No representation or warranty is made for the adequacy, accuracy or completeness of the information or depictions shown. This information is protected from further disclosure under the federal Freedom of Information Act and the Protected Critical Infrastructure Information Act of 2002, and Nevada Revised Statutes § 239C.

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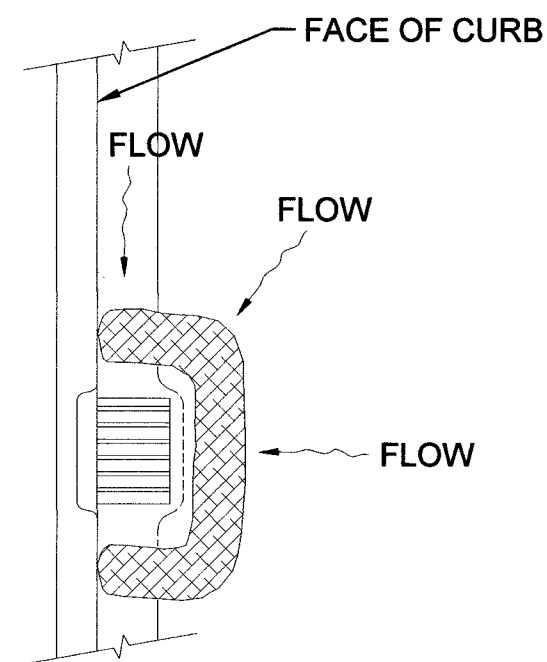
REVISIONS					D_W_VALLEY		JOB TYPE		WR NO.		ENGINEER/TECHNICIAN		AMANDA HENDERSON		PHONE: (702) 365-2152			
										3771778	ACCOUNT REP.		TONY STIPANOV		PHONE: (702) 365-2053			
											PROJECT CONTACT		DAVE VON OY		PHONE: (702) 376-7577			
											SHEET NO. 4 OF 7		SCALE N.T.S.		DATE 05/23/2019			
											DWN. BY SEI		CHKD. BY AH		APPVD. BY BWJ			
NO.	DESCRIPTION				BY	DATE	APPVD.			RELATED WR NO.S		BLM 33 118-02380 107Y5099						
PERMIT INFORMATION		ISOLATION AREA		LOCATION		ATLAS OR TILE				FEEDER								
CITY OF LAS VEGAS TAX CODE: 02-0200		ISO_21_DIST_232		T20S R60E SEC 28 M.D.M.		x591y518		SYSTEM MAOP:		TRANS. BY DEF								
								SYSTEM MOP:		TRANS > 20%								

TYPICAL SWPPP BMP DETAILS

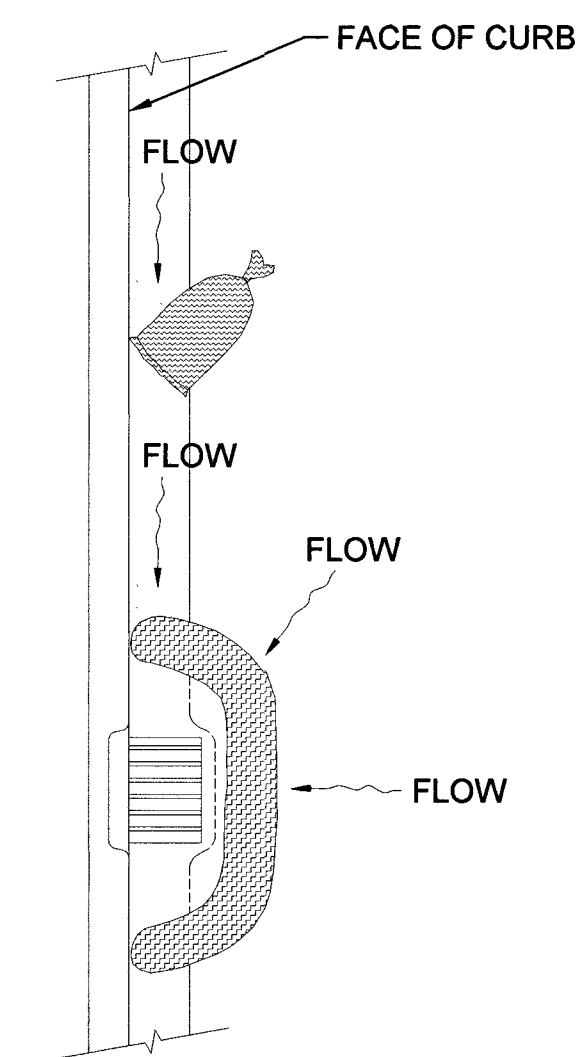
SWPPP NOTES



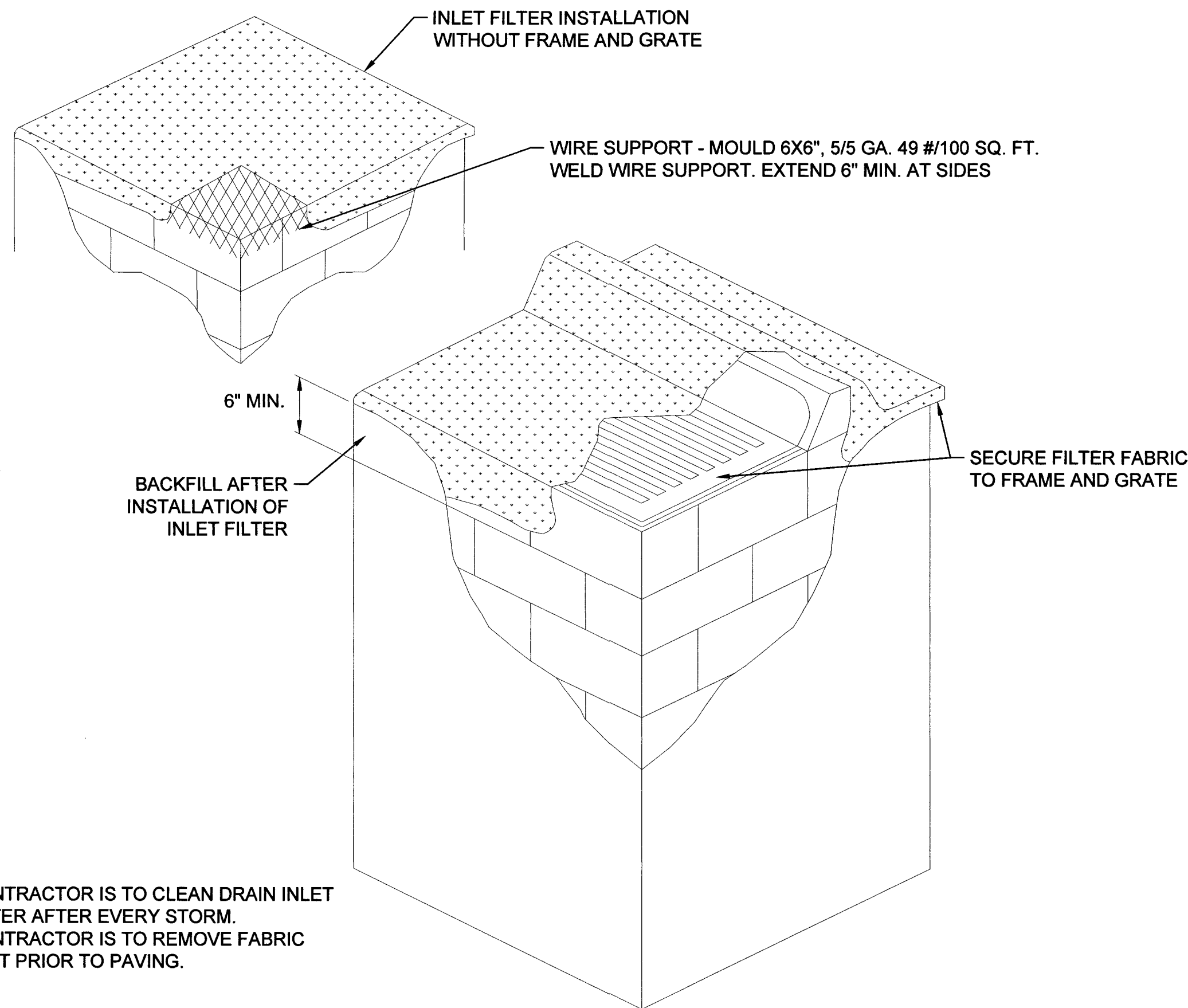
1 SILT FENCE
- N.T.S.



2 FIBER ROLL
- N.T.S.

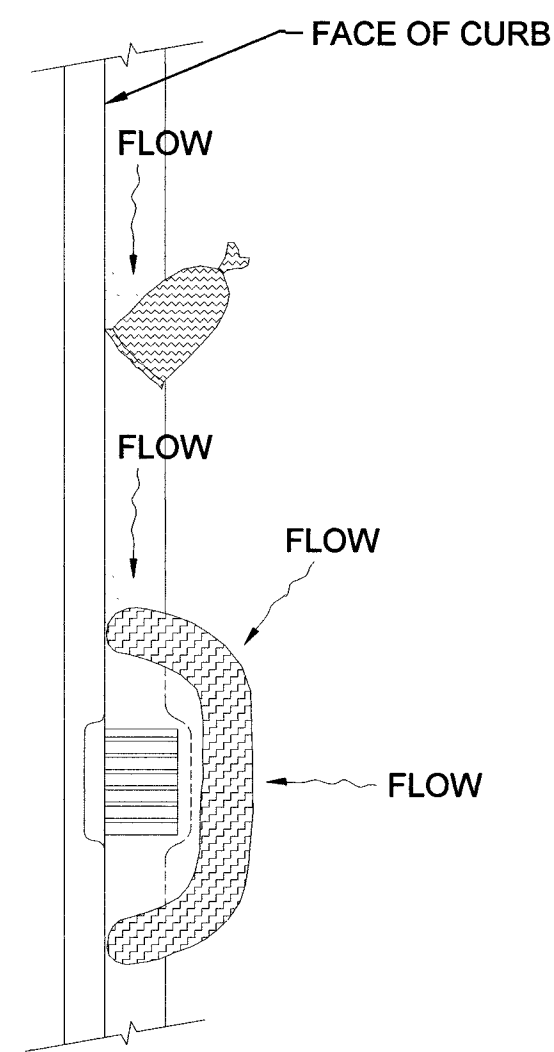


3 SAND BAG/ROLL
- N.T.S.

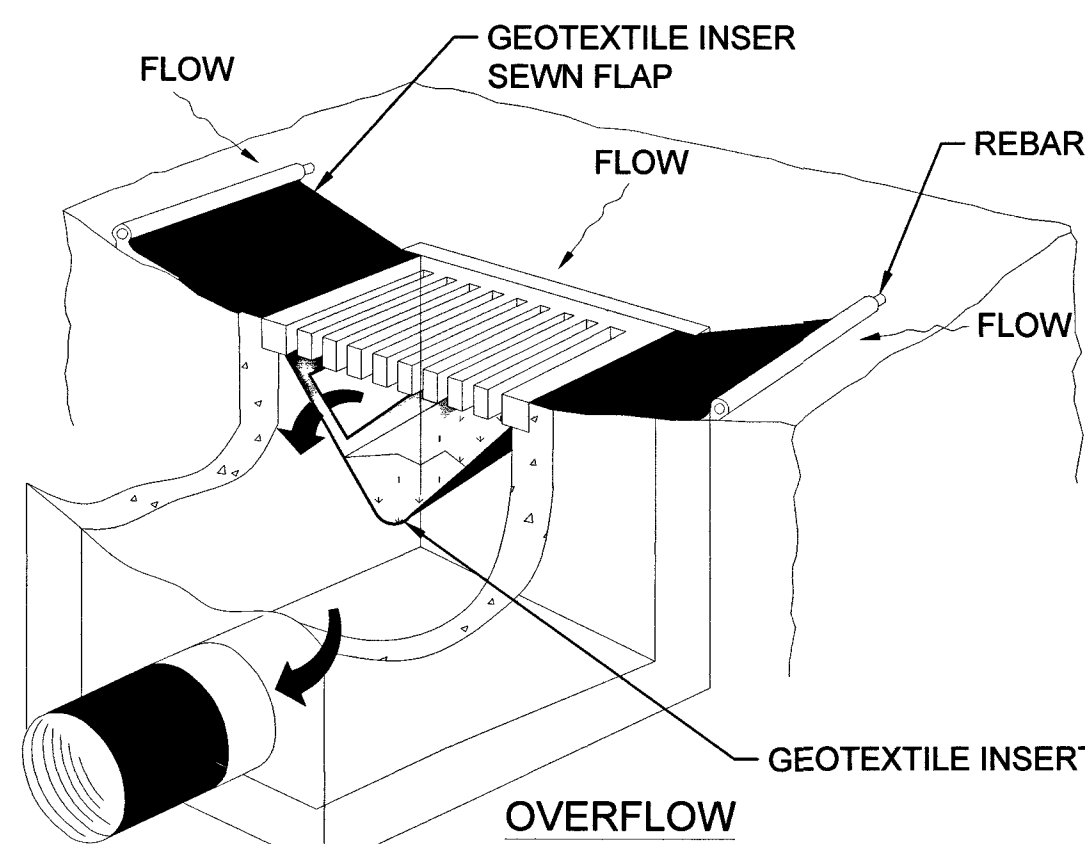
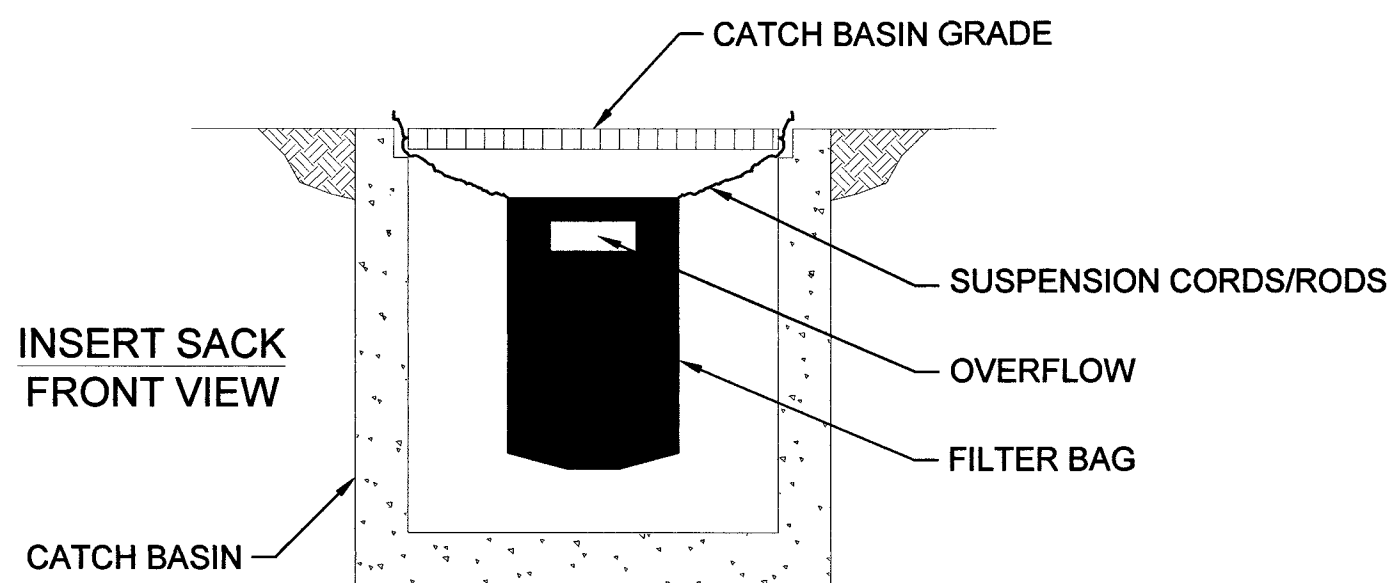


NOTE:
1. CONTRACTOR IS TO CLEAN DRAIN INLET FILTER AFTER EVERY STORM.
2. CONTRACTOR IS TO REMOVE FABRIC JUST PRIOR TO PAVING.

4 DRAIN INLET FILTER
- N.T.S.



5 GRAVEL BAG/ROLL
- N.T.S.



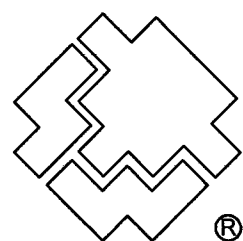
NOTE:
RECESSED CURB INLET MUST BE BLOCKED WHEN USING FILTER FABRIC INLET SACKS.
SIZE OF FILTER FABRIC INLET SACK TO BE DETERMINED BY MANUFACTURER.

6 SEDIMENT FILTER BAG
- N.T.S.

1. SOUTHWEST GAS CORPORATION, IT'S CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL INSTALL ONE OF THE APPROPRIATE BMPS FOR THE PROTECTION OF EXISTING STORM DRAIN INLETS, WITHIN OR SIGNIFICANTLY NEAR ANY IMPROVED RIGHT-OF-WAY, FROM DEBRIS AND SEDIMENT RESULTING FROM CONSTRUCTION OF NATURAL GAS FACILITIES.
2. SOUTHWEST GAS CORPORATION, IT'S CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY OF CLARK COUNTY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM, USING BEST MANAGEMENT PRACTICES DETAILED ON THIS SHEET.
3. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF SOUTHWEST GAS CORPORATION, IT'S CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE LISTED BMPS ON THIS SHEET DOT NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE CLARK COUNTY CODE - CHAPTER 24.40/STORM SEWER SYSTEM DISCHARGE AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
4. ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.



Know what's below.
Call before you dig.



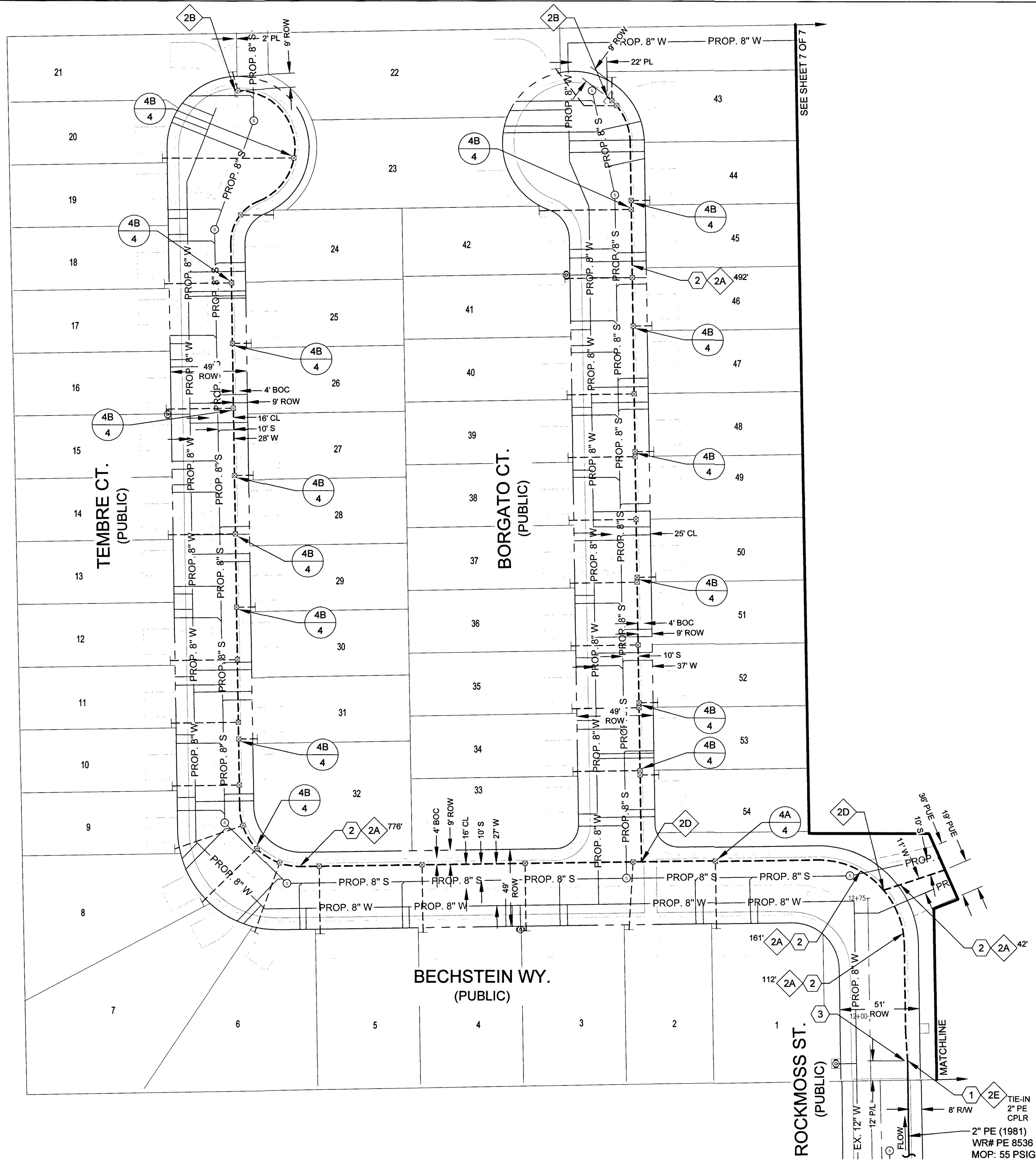
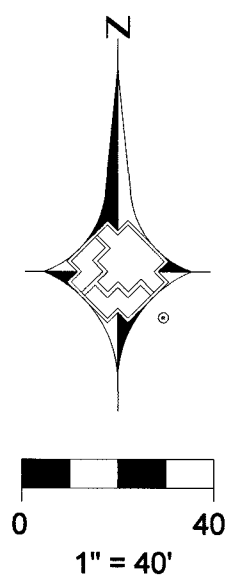
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REVISIONS					D_W_VALLEY		JOB TYPE	WR NO.	ENGINEER/TECHNICIAN	AMANDA HENDERSON	PHONE: (702) 365-2152
						SYSTEM MAOP: 60	HP SERVICE ☐	3771778	ACCOUNT REP.	TONY STIPANOV	PHONE: (702) 365-2053
						SYSTEM MOP: 55	DISTRIBUTION ☒		PROJECT CONTACT	DAVE VON OY	PHONE: (702) 376-7577
NO.	DESCRIPTION			BY	DATE	APPVD.			SHEET NO. 5 OF 7	SCALE N.T.S.	DATE 05/23/2019
									DWN. BY SEI	CHKD. BY AH	APPVD. BY BWJ
PERMIT INFORMATION		ISOLATION AREA	LOCATION	ATLAS OR TILE				FEEDER ☐	RELATED WR NO.S		
CITY OF LAS VEGAS TAX CODE: 02-0200		ISO_21_DIST_232	T20S R60E SEC 28 M.D.M.	x591y518		SYSTEM MAOP:		TRANS. BY DEF ☐	BLM 33		
						SYSTEM MOP:		TRANS > 20% ☐			
418-02380 10745099											

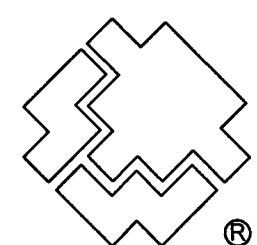


2" DISTRIBUTION MATERIALS LIST						
CODE	DESIGN QTY.	AS-BUILT QTY.	STOCK ID	DESCRIPTION	SEAM	COATING
2A	1,583'	0'	100-5101	2" PE 8100 PIPE	N/A	N/A
2B	2	0'	140-3080	2" PE CAP	N/A	N/A
2D	2	0	140-3074	2" PE FULL FLOW TEE	N/A	N/A
2E	1	0	140-3532	2" PE COUPLING	N/A	N/A

CONSTRUCTION NOTES	
1	TIE NEW 2" PE8100 TO EXISTING 2" PE
2	503
3	500.4 - PAVEMENT CUT 13'



Know what's below.
Call before you dig.



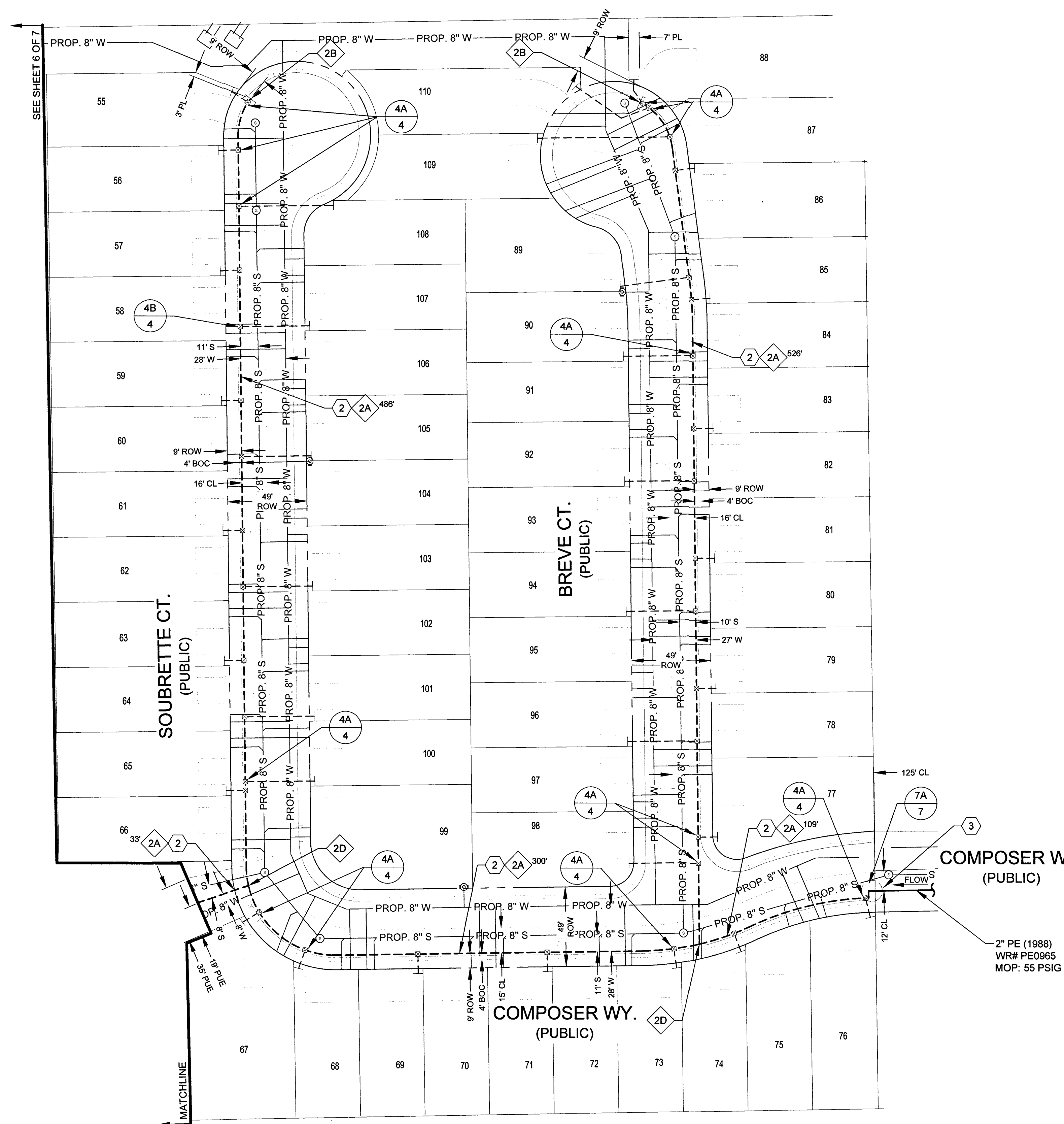
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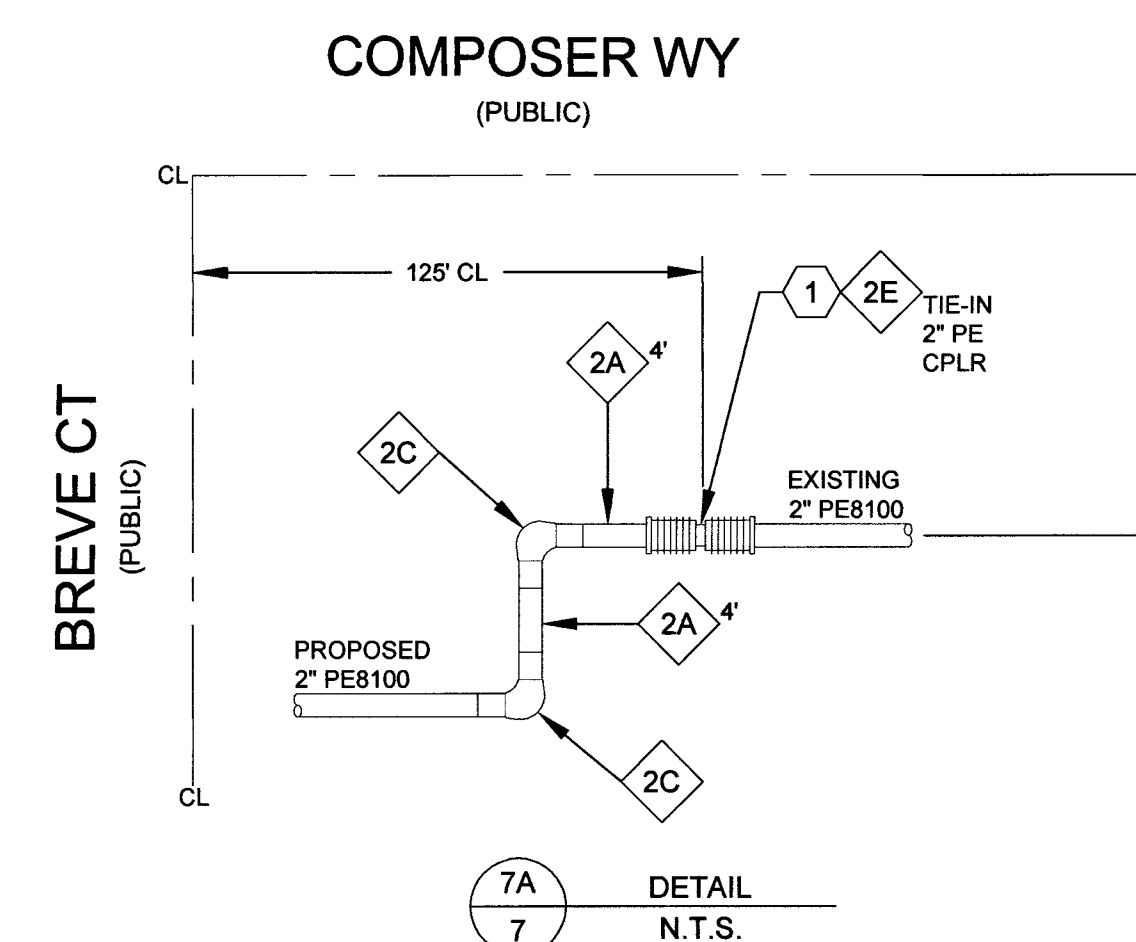
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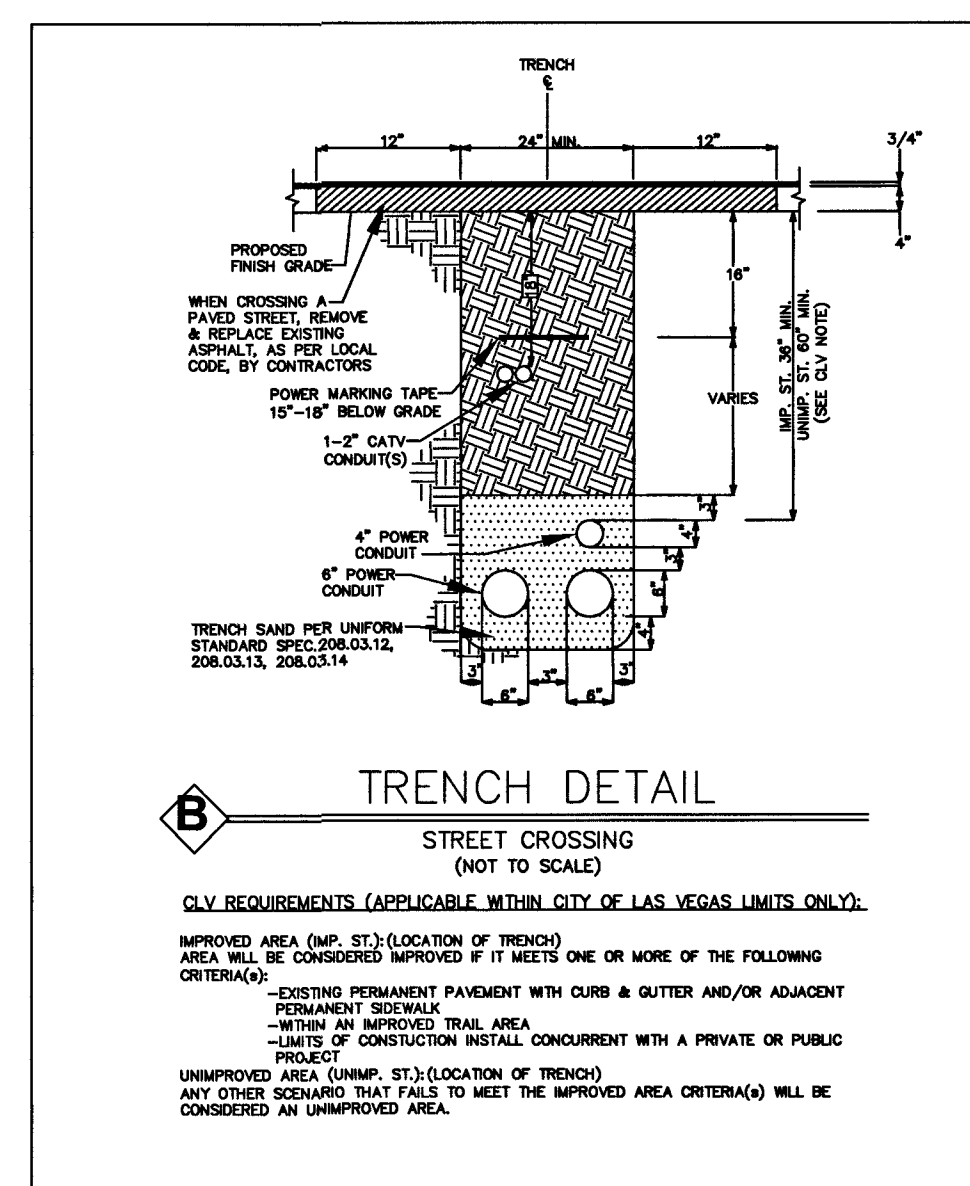
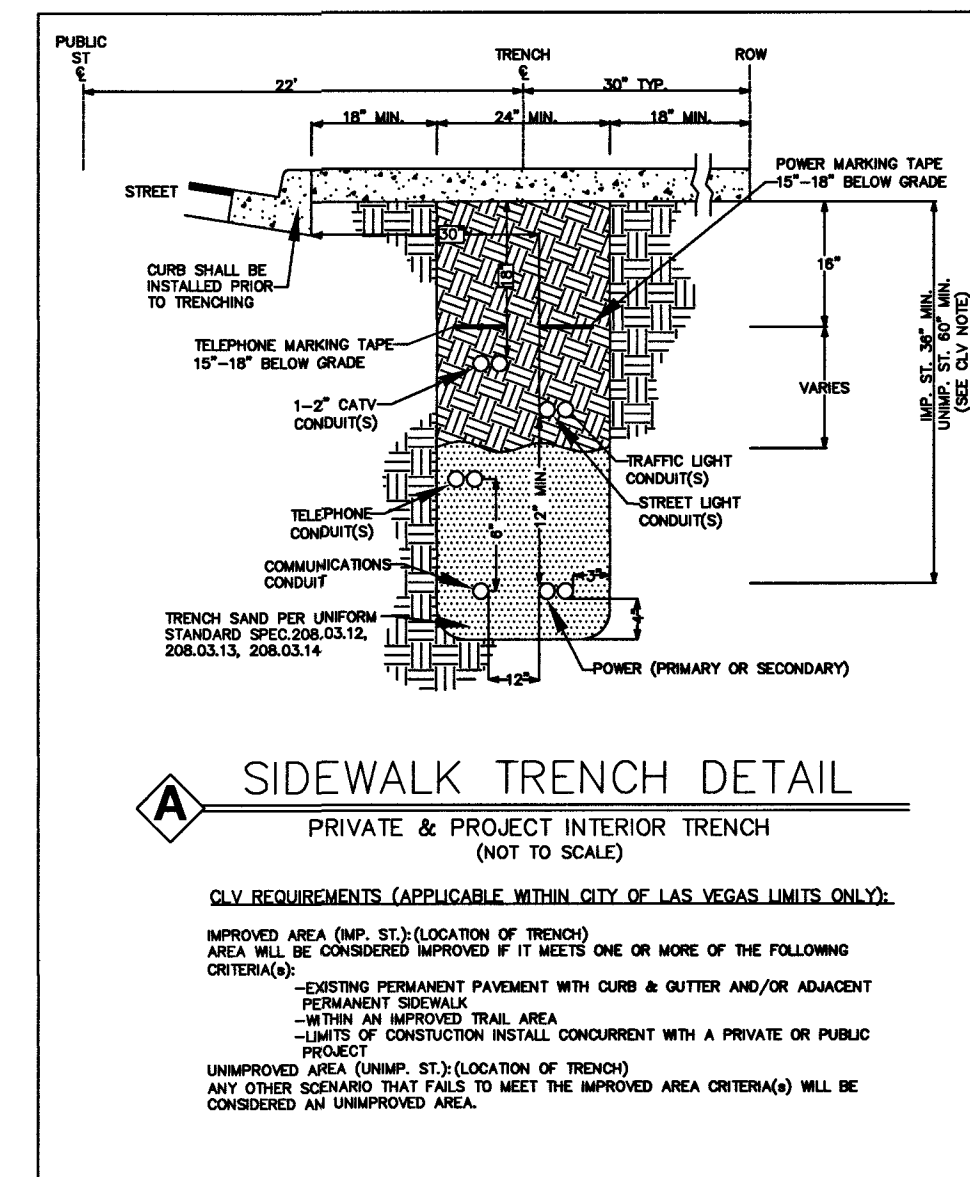
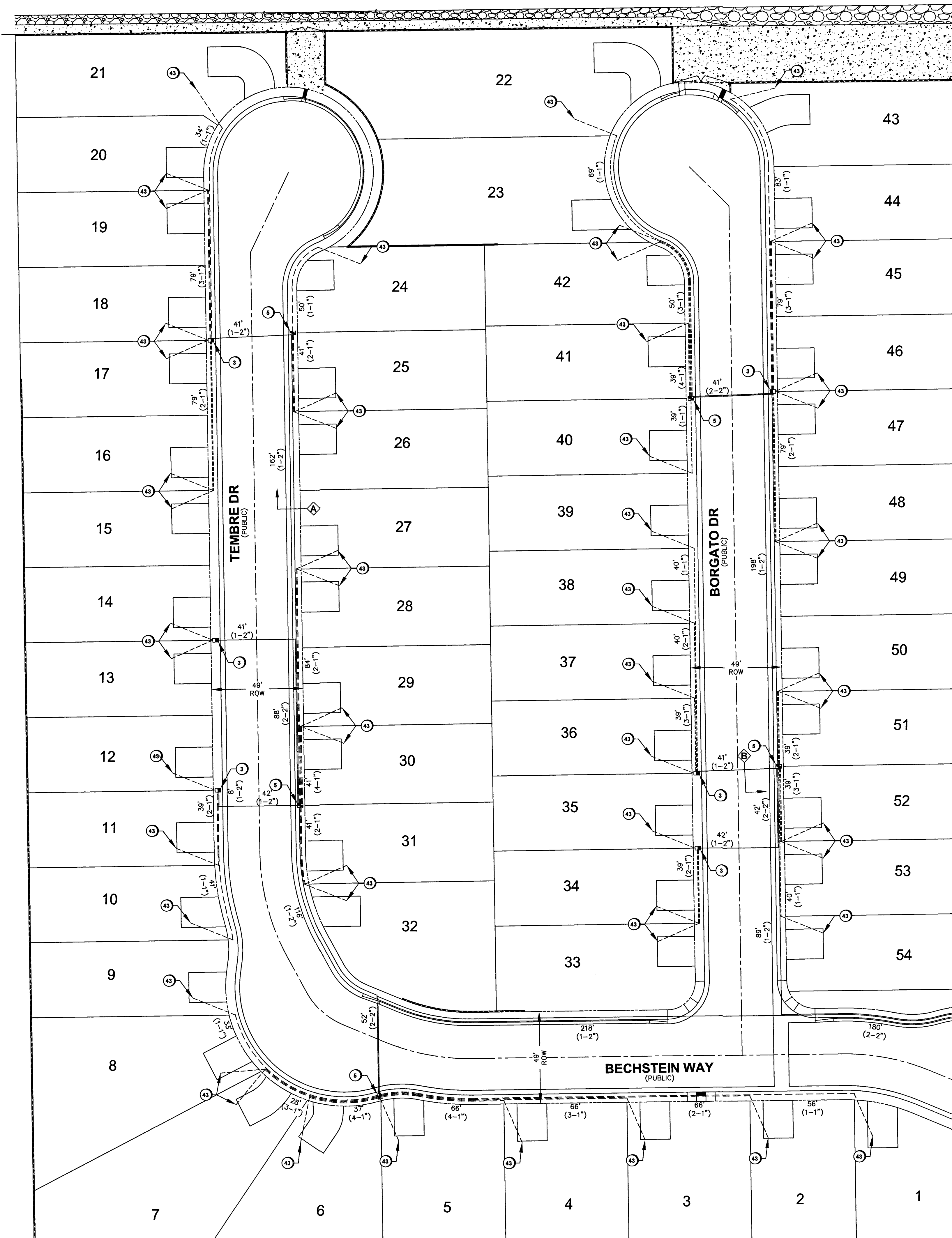
REVISIONS					D_W_VALLEY		JOB TYPE	WR NO.	ENGINEER/TECHNICIAN	AMANDA HENDERSON	PHONE: (702) 365-2152
						SYSTEM MAOP: 60	HP SERVICE ☐	3771778	ACCOUNT REP.	TONY STIPANOV	PHONE: (702) 365-2053
						SYSTEM MOP: 55	DISTRIBUTION ☒		PROJECT CONTACT	DAVE VON OY	PHONE: (702) 376-7577
									SHEET NO. 6 OF 7	SCALE 1" = 40'	DATE 05/23/2019
NO.	DESCRIPTION			BY	DATE	APPVD.			DWN. BY SEI	CHKD. BY AH	APPVD. BY BJW
PERMIT INFORMATION		ISOLATION AREA	LOCATION	ATLAS OR TILE			FEEDER ☐		BLM 33		
CITY OF LAS VEGAS TAX CODE: 02-0200		ISO_21_DIST_232	T20S R60E SEC 28 M.D.M.	x591y518		SYSTEM MAOP:	TRANS. BY DEF ☐				
						SYSTEM MOP:	TRANS > 20% ☐				
L18-02380 107Y5099											

NO.	DESCRIPTION	BY	DATE	APPVD.
PERMIT INFORMATION				
CITY OF LAS VEGAS TAX CODE: 02-0200	ISOLATION AREA ISO_21_DIST_232	LOCATION T20S R60E SEC 28 M.D.M.	ATLAS OR TILE x591y518	



CONSTRUCTION NOTES	
1	TIE NEW 2" PE8100 TO EXISTING 2" PE
2	503
3	500.4 - PAVEMENT CUT 5'





LEGEND		
1		INSTALL B-36 PULL BOX (24"x36"x24")
2		EXISTING B-36 PULL BOX (24"x36"x24")
3		INSTALL B-50 PULL BOX (13"x24"x24")
4		EXISTING B-50 PULL BOX (13"x24"x24")
5		INSTALL B-100 PULL BOX (24"x36"x24")
6		EXISTING B-100 PULL BOX (24"x36"x24")
7		INSTALL 1-200 CATV VAULT (30"x48"x36")
8		EXISTING 1-200 CATV VAULT (30"x48"x36")
9		INSTALL 1-400 CATV VAULT (36"x60"x36")
10		EXISTING 1-400 CATV VAULT (36"x60"x36")
11		INSTALL 1-600 CATV VAULT (48"x72"x36")
12		EXISTING 1-600 CATV VAULT (48"x72"x36")
13		INSTALL NEW CATV PEDESTAL/CABINET
14		EXISTING NEW CATV PEDESTAL/CABINET
15		R&R S/W SLAB(S)
16		POTHOLE
17		SIDEWALK/DIRT TRENCH INSTALL WITH FIBER/COAX PULL
18		ASPHALT MITIGATION/STREET TRENCH WITH FIBER/COAX PULL
19		PROPOSED BORE WITH FIBER/COAX PULL
20		EXISTING CATV CONDUIT(S)
21		PROPOSED OVERHEAD FIBER OPTIC CABLE OR COAX INSTALL
22		EXISTING OVERHEAD FIBER OPTIC CABLE OR COAX
23		U.G. FIBER/COAX PULL
24		RIGHT OF WAY LINE
25		LOT/PROPERTY LINE
26		EDGE OF PAVEMENT
27		EXISTING NVE PULL BOX
28		EXISTING TELCO PULL BOX
29		EXISTING TELCO MANHOLE
30		EXISTING TELCO POLE
31		EXISTING NVE POLE
32		EXISTING NVE TRANSMISSION POLE
33		EXISTING JOINT POLE
34		EXISTING JOINT POLE WITH TRANSFORMER
35		POLE ANCHOR
36		EXISTING NVE TRANSFORMER TRANSFORMER PAD
37		SNWA TEST STATION
38		COX POWER SUPPLY (49"x24"x52")
39		INSTALL RHINO CABINET
40		RISER POLE/QUADRANT DETAIL RISER OWNERSHIP NOTED
41		RAILROAD
42		EXISTING MANHOLE (SS),(SD)...ECT
43		1in CONDUIT LATERAL
44		STORMWATER ASSETS
45		

DISCLAIMER NOTE

UTILITY LOCATIONS SHOWN
HEREON ARE APPROXIMATE ONLY.
IT SHALL BE THE CONTRACTOR'S
RESPONSIBILITY TO DETERMINE
THE EXACT HORIZONTAL AND
VERTICAL LOCATIONS OF ALL
EXISTING UNDERGROUND AND
OVERHEAD UTILITIES PRIOR TO
COMMENCING CONSTRUCTION.
NO REPRESENTATION IS MADE
THAT ALL EXISTING UTILITIES ARE
SHOWN HEREON. THE ENGINEER
ASSUMES NO RESPONSIBILITY
FOR UTILITIES NOT SHOWN OR
UTILITIES NOT SHOWN IN THEIR
PROPER LOCATIONS.

**AVOID CUTTING UNDERGROUND
UTILITY LINES. IT'S COSTLY.**

**CALL
811**



**BEFORE YOU DIG
OR 1-800-227-2600
UNDERGROUND SERVICE (USA)**

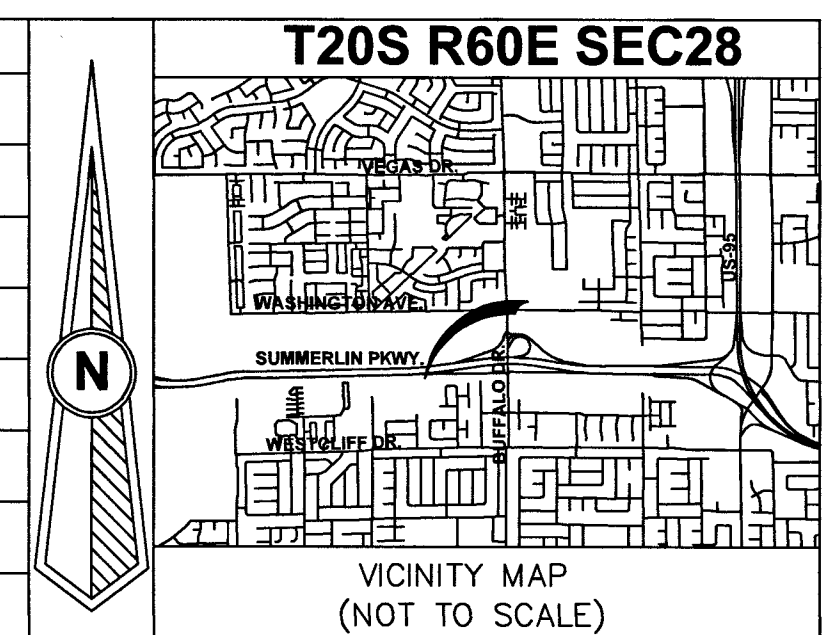
TOTAL BORE	0'
TOTAL DIRT TRENCH	0'
TOTAL ASPHALT TRENCH	0'
TOTAL TRENCH	0'
<u>SIDEWALK REMOVAL/REPAIR</u>	
TOTAL S/W PANELS	0
TOTAL LINEAR FOOTAGE	0'

**AVOID OVERHEAD POWER
LINE CONTACT**

**CALL
BEFORE YOU
OVERHEAD**

1-702-227-2929
**NEVADA POWER ENVIRONMENT AND
SAFETY SERVICE DEPARTMENT**

	0'
	0'
H	0'
H	0'
<u>PAIR</u>	
	0
E	0'

[illegible]

ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA" LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA"; LATEST ISSUE; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE.

APPROVED FOR CONSTRUCTION

THIS APPROVAL IS FOR WORK IN CLV R/W OR CLV EASEMENT ONLY. OBTAINING PERMISSION OR EASEMENT FOR WORK SHOWN IN PRIVATE PROPERTY IS THE RESPONSIBILITY OF THE UTILITY.

APPROVAL 7/25/19
DATE

PERMIT #	RB-2013
DRAWN BY:	
WTB	
DATE:	3/18/2019
SCALE:	1:30
NODE:	
RB-2013	
PROJECT #:	40505190000RB20130
TECH #	702-545-1590
APPROVED BY:	MICHAEL HERVIS

COXX
7700 VEGAS DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 545-1606
FAX: (702) 545-2606

CITY/ENTITY:
CITY OF LAS VEGAS
333 N. RANCHO DRIVE
LAS VEGAS, NEVADA 89106
(702) 229-6885



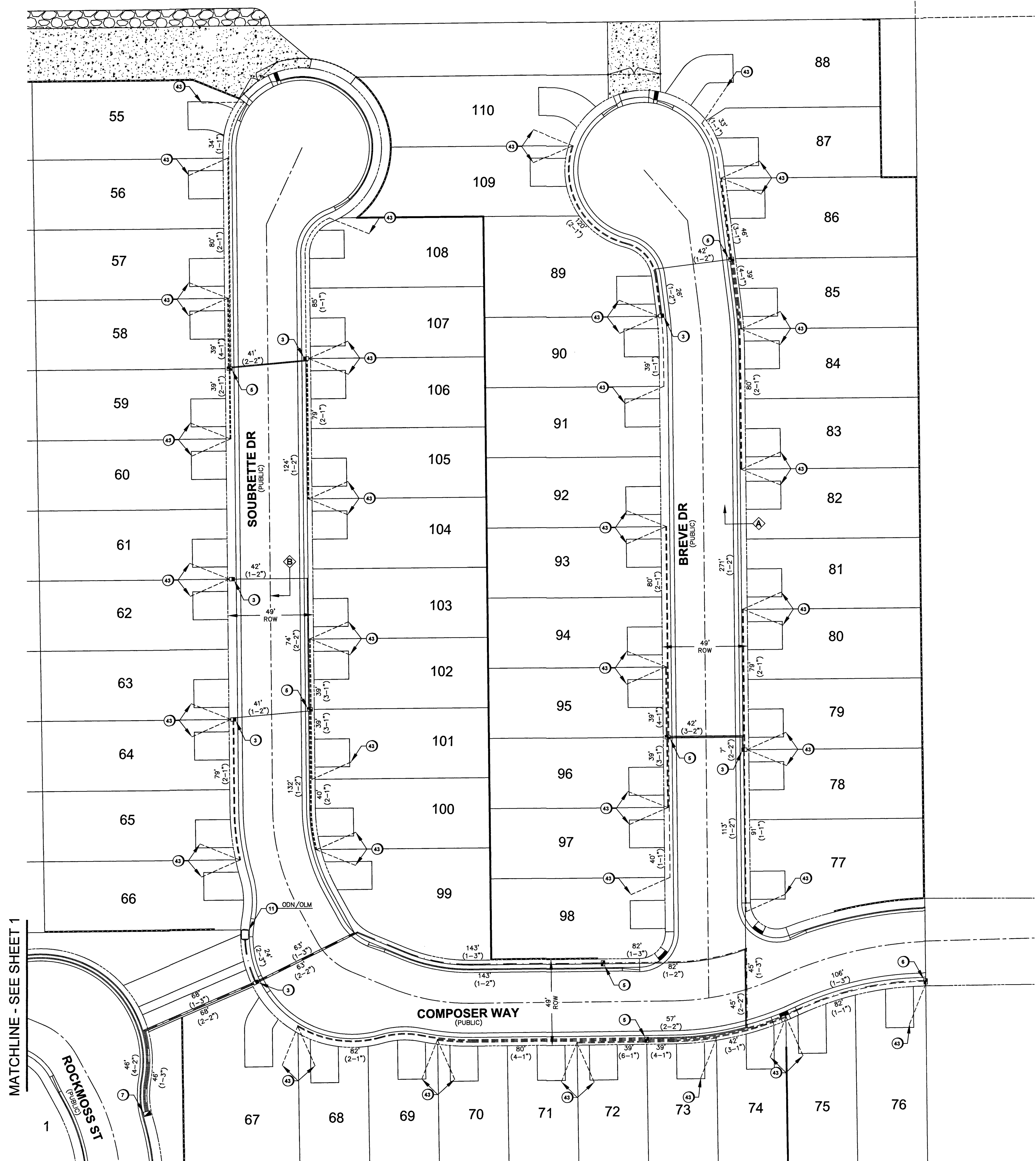
PROJECT LOCATION: BLM 33
COMPOSER WAY & BEETHOVEN ST
—CONTRACTOR: DBA: COX COMMUNICATIONS
PROPERTY NOTES:

PRG SUB ENT

SHEET No:

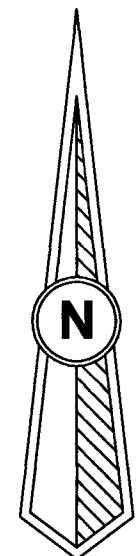
1 32

Sheet 1 of 3



MATCHLINE - SEE SHEET 1

10745099
L18-02380



LEGEND	
1	INSTALL B-36 PULL BOX (24"x36"x24")
2	EXISTING B-36 PULL BOX (24"x36"x24")
3	INSTALL B-50 PULL BOX (13"x24"x24")
4	EXISTING B-50 PULL BOX (13"x24"x24")
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6	EXISTING B-100 PULL BOX (24"x36"x24")
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16	POTHOLE
17	SIDEWALK/DIRT TRENCH INSTALL WITH FIBER/COAX PULL
18	ASPHALT MITIGATION/STREET TRENCH WITH FIBER/COAX PULL
19	PROPOSED BORE WITH FIBER/COAX PULL
20	EXISTING CATV CONDUIT(S)
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22	EXISTING OVERHEAD FIBER OPTIC CABLE OR COAX
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24	RIGHT OF WAY LINE
25	LOT/PROPERTY LINE
26	EDGE OF PAVEMENT
27	P EXISTING NVE PULL BOX
28	T EXISTING TELCO PULL BOX
29	TM EXISTING TELCO MANHOLE
30	T EXISTING TELCO POLE
31	EXISTING NVE POLE
32	NVE EXISTING NVE TRANSMISSION POLE
33	EXISTING JOINT POLE
34	EXISTING JOINT POLE WITH TRANSFORMER
35	POLE ANCHOR
36	EXISTING NVE TRANSFORMER TRANSFORMER PAD
37	TS SNWA TEST STATION
38	COX POWER SUPPLY (49"x24"x52")
39	RC INSTALL RHINO CABINET
40	RISER POLE/QUADRANT DETAIL RISER OWNERSHIP NOTED
41	RAILROAD
42	EXISTING MANHOLE (SS),(SD)...ECT
43	1in CONDUIT LATERAL
44	STORMWATER ASSETS
45	

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AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.

CALL BEFORE YOU DIG

OR 1-800-227-2600

UNDERGROUND SERVICE (USA)

AVOID OVERHEAD POWER LINE CONTACT

CALL BEFORE YOU OVERHEAD

1-702-227-2928

NEVADA POWER ENVIRONMENT AND SAFETY SERVICE DEPARTMENT

UNDERGROUND CALL BEFORE YOU CALL

UNDERGROUND CALL BEFORE YOU CALL

1-702-455-7611

CLARK COUNTY TRAFFIC OPERATIONS AND

1-702-432-5300

LAS VEGAS AREA COMPUTERIZED SYSTEM

TOTAL BORE 0'

TOTAL DIRT TRENCH 0'

TOTAL ASPHALT TRENCH 0'

TOTAL TRENCH 0'

SIDEWALK REMOVAL/REPAIR 0'

TOTAL S/W PANELS 0

TOTAL LINEAR FOOTAGE 0'

T20S R60E SEC28

VICINITY MAP (NOT TO SCALE)

REVISIONS

REV	DESCRIPTION	DATE	BY
0			

APPROVED FOR CONSTRUCTION

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

APPROVAL: *[Signature]* DATE: 7/25/19

CITY OF LAS VEGAS

333 N. RANCHO DRIVE

LAS VEGAS, NEVADA 89106

PHONE: (702) 545-1606

FAX: (702) 545-2606

CITY/ENTITY: BLM 33

PROJECT LOCATION: COMPOSER WAY & BEETHOVEN ST

SUB-CONTRACTOR: DBA: COX COMMUNICATIONS

ENTITY NOTES:

PERMIT # RB-2013

DRAWN BY: WTB

DATE: 3/18/2019

SCALE: 1:30

NOTE: RB-2013

PROJECT #: 40505190000RB20130

TECH # 702-545-1590

APPROVED BY: MICHAEL HERVIS

CITY OF LAS VEGAS

333 N. RANCHO DRIVE

LAS VEGAS, NEVADA 89106

(702) 229-6885

PROJECT LOCATION: BLM 33

COMPOSER WAY & BEETHOVEN ST

SUB-CONTRACTOR: DBA: COX COMMUNICATIONS

ENTITY NOTES:

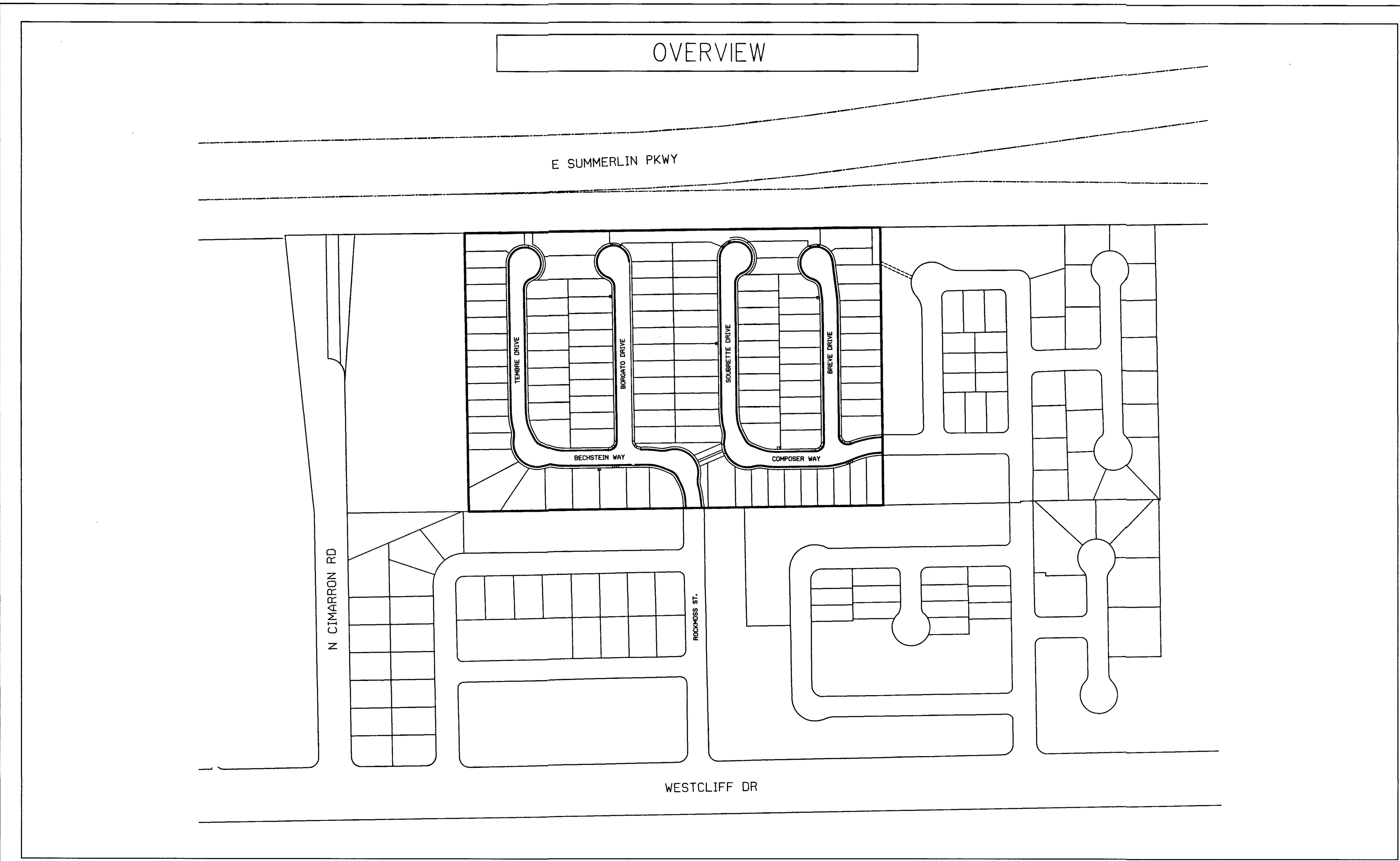
100% LAS VEGAS

100% LAS VEGAS

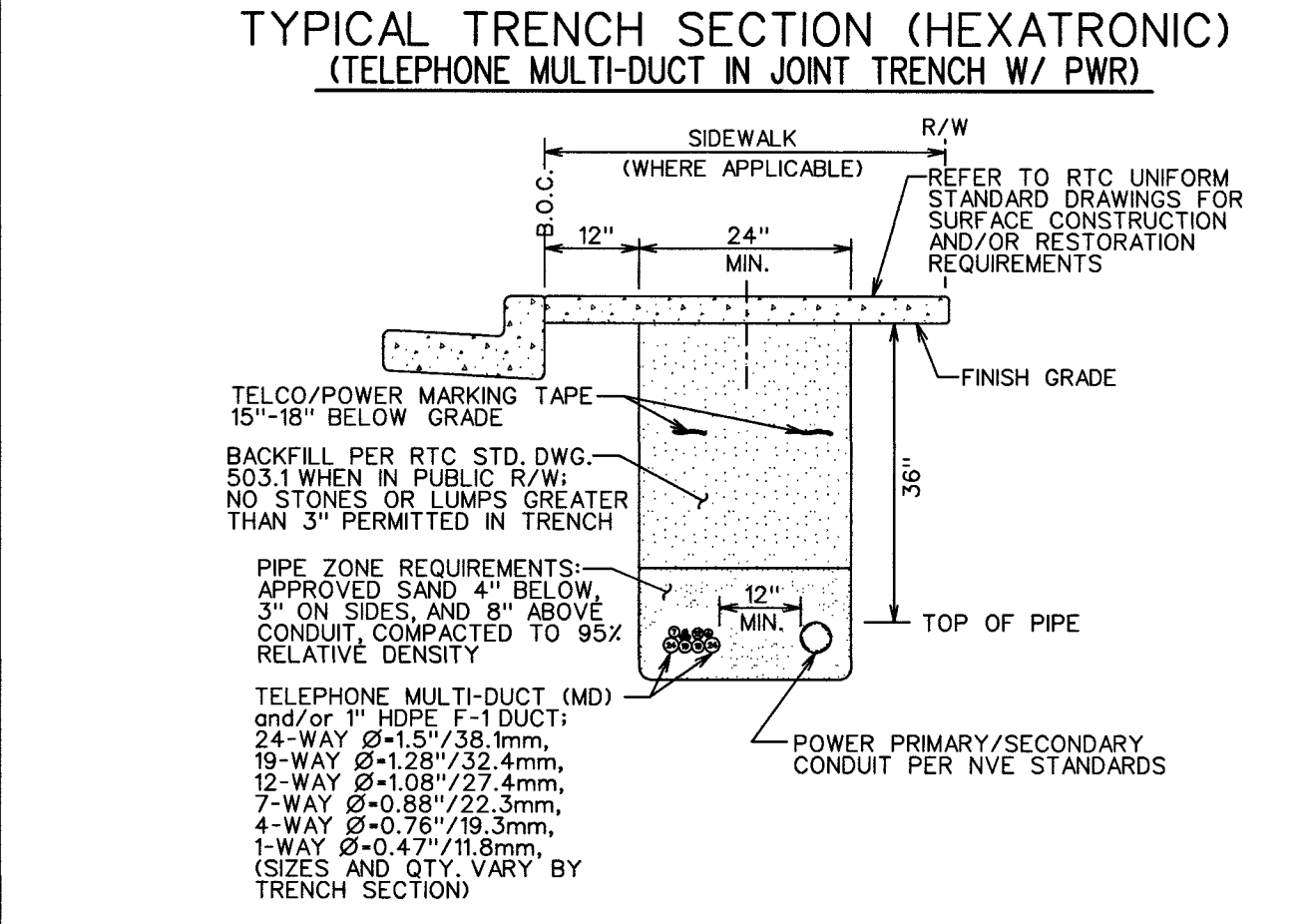
233

Sheet 2 of 2

OVERVIEW



TYPICAL TRENCH SECTION (HEXATRONIC)
(TELEPHONE MULTI-DUCT IN JOINT TRENCH W/ PWR)



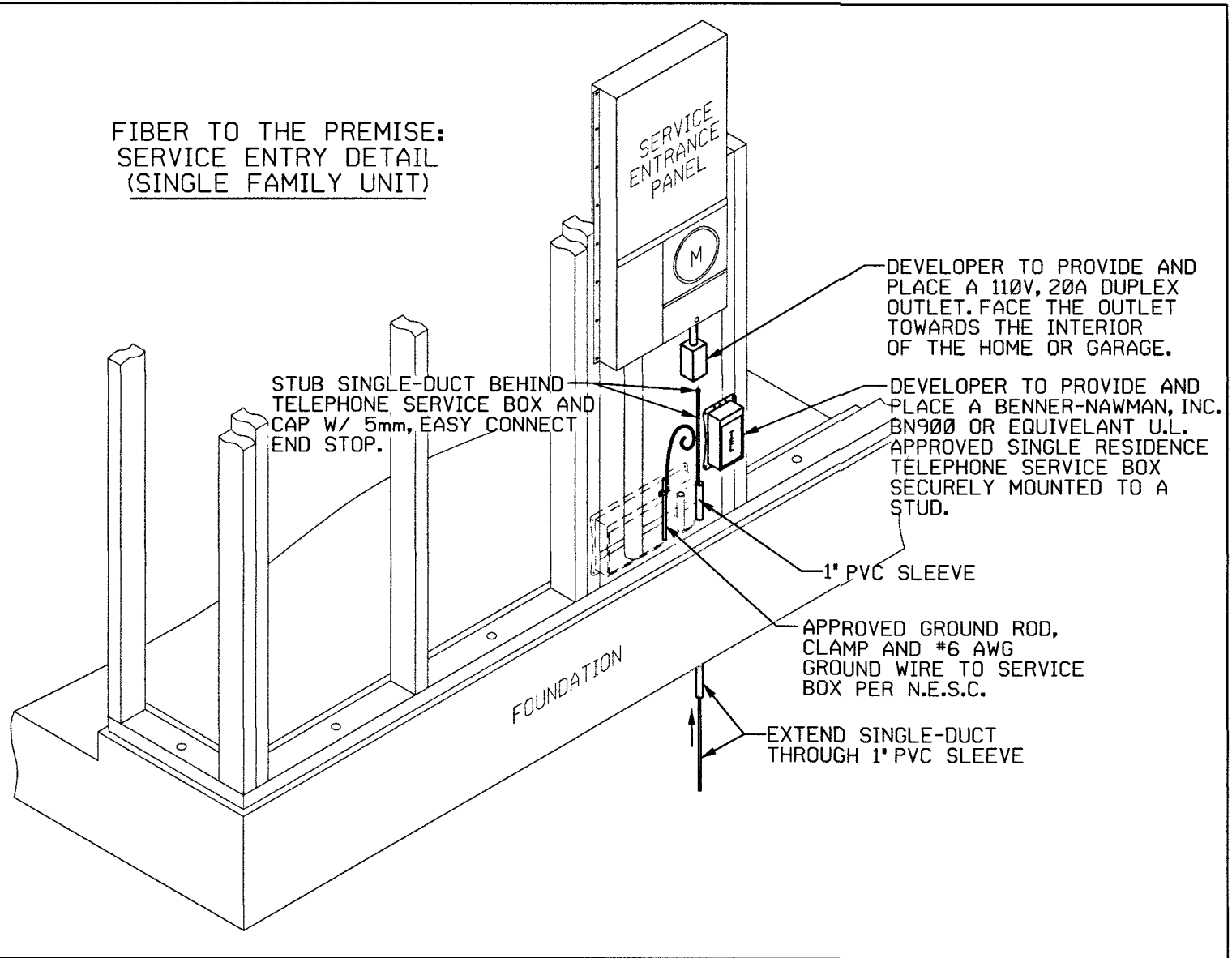
RTC SOUTHERN NEVADA NOTES:

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DEVELOPER/CONTRACTOR NOTE:
CALL CENTURYLINK'S CONTROL CENTER AT 702-244-7811 TO SCHEDULE INSPECTIONS OF OPEN TRENCH AS REQUIRED. ALLOW 48 HOURS ADVANCE NOTICE FOR DIRECT BURIED MULTI-DUCT IN OPEN TRENCH AND SIDE-LOT TRENCH SECTIONS. THE 48 HOURS BEGINS AFTER THE CENTURYLINK INSPECTOR APPROVES THE OPEN TRENCH.

DEVELOPER: D.R. HORTON, INC.
CONTACT: DAVE VON-OY
CONTACT #: 702-379-7577
NMBR OF LOTS: 110
NMBR OF GATE SVC'S: 0
NMBR OF POOL SVC'S: 0

FIBER TO THE PREMISE:
SERVICE ENTRY DETAIL
(SINGLE FAMILY UNIT)



DEVELOPER TO PROVIDE AND PLACE A 110V, 20A DUPLEX OUTLET, FACE THE OUTLET TOWARDS THE INTERIOR OF THE HOME OR GARAGE.

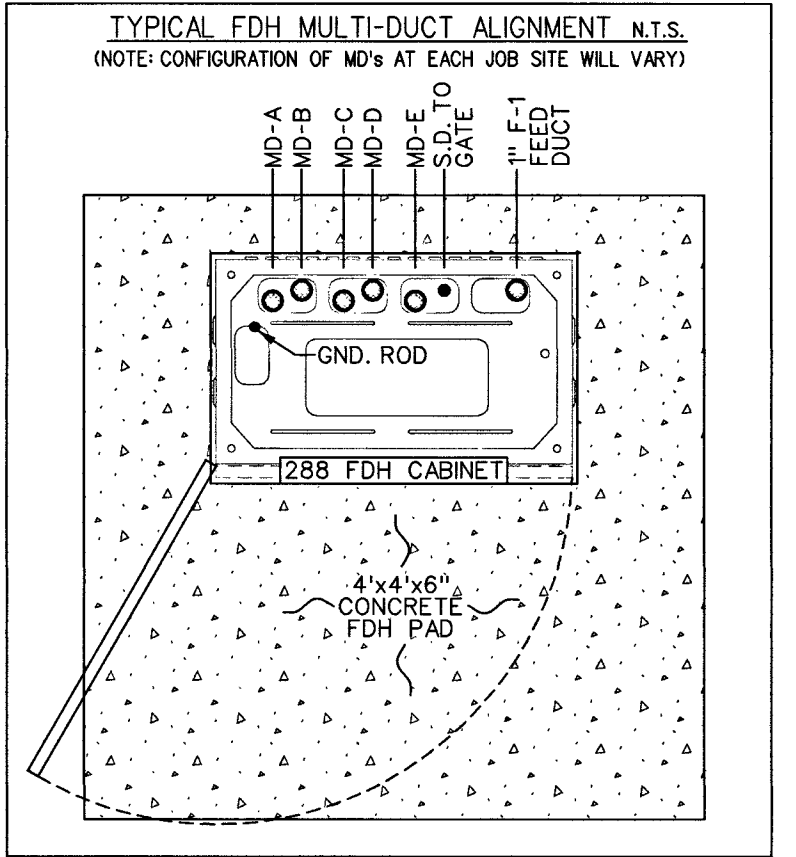
DEVELOPER TO PROVIDE AND PLACE A BENNER-NAWMAN, INC. BN900 OR EQUIVALENT U.L. APPROVED SINGLE RESIDENCE TELEPHONE SERVICE BOX SECURELY MOUNTED TO A STUD.

1" PVC SLEEVE

APPROVED GROUND ROD, CLAMP AND #6 AWG GROUND WIRE TO SERVICE BOX PER N.E.S.C.

EXTEND SINGLE-DUCT THROUGH 1" PVC SLEEVE

TYPICAL FDH MULTI-DUCT ALIGNMENT N.T.S.
(NOTE: CONFIGURATION OF MD'S AT EACH JOB SITE WILL VARY)



THIS PROJECT HAS BEEN DESIGNED AS JOINT TRENCH WITH NV ENERGY PER THE LATEST NV ENERGY PLAN. NOTIFY THE CENTURYLINK ENGINEER IMMEDIATELY IF REVISIONS OCCUR.

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 7/25/19
APPROVAL DATE

Project Description: RESIDENTIAL FIBER TO THE PREMISE (FTTP) T&S - HEXATRONIC

Project * N.503475

Community Name: BLM 33 SUBDIVISION

Exchange Key: WEST WEST

WC CLLI: LSVGNVXW

Remote Switch Exchange Key: N/A

Engineering Contact
Contract Engineer

Construction Coordinator

Revision 1:
Revision 2:

Name: Lori Johnson
Phone Number: 702-244-7899

Name: Kyle Cummings

Name: Stacie Booth
Phone Number: 702-244-7830

INSPECTOR: _____

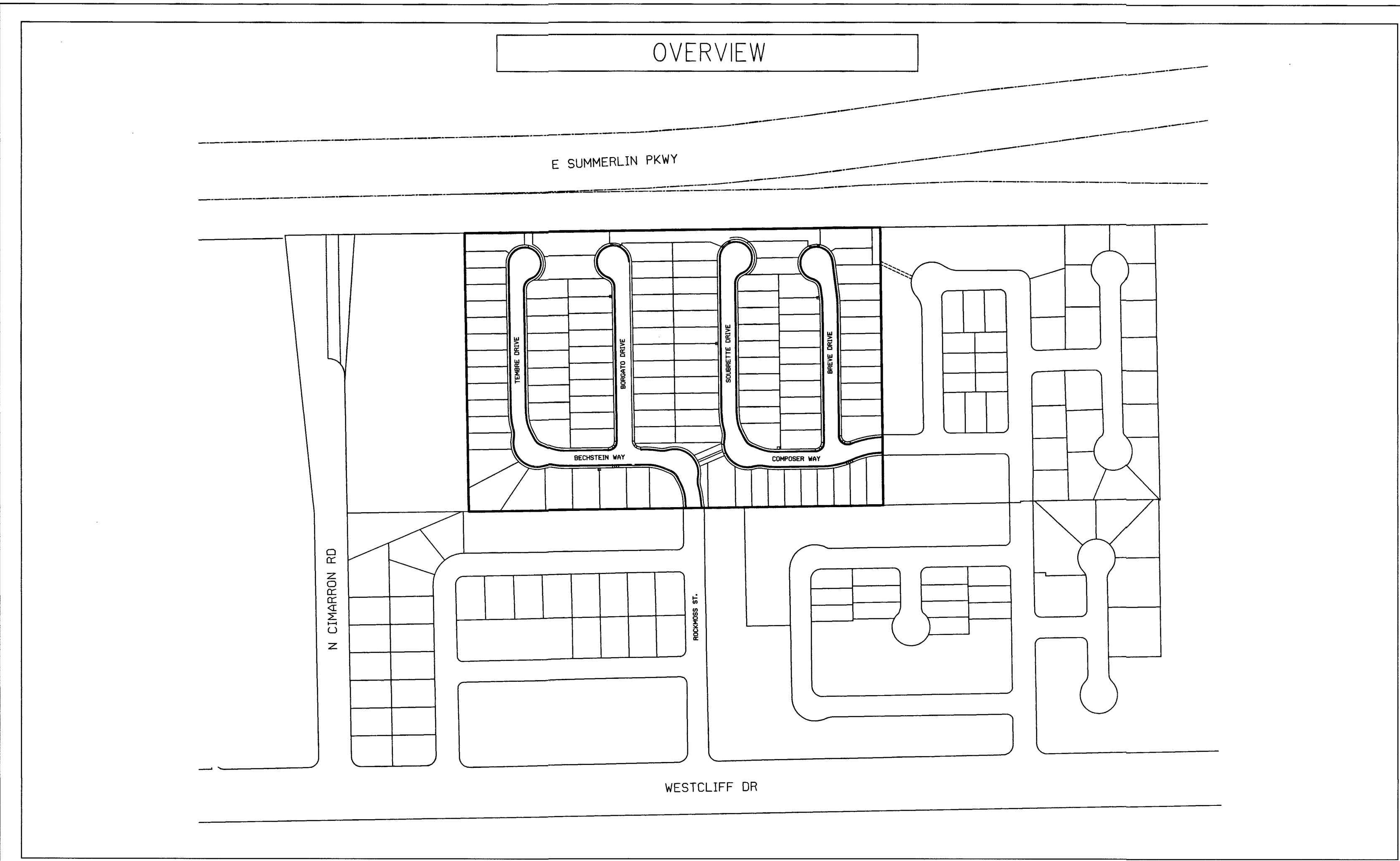
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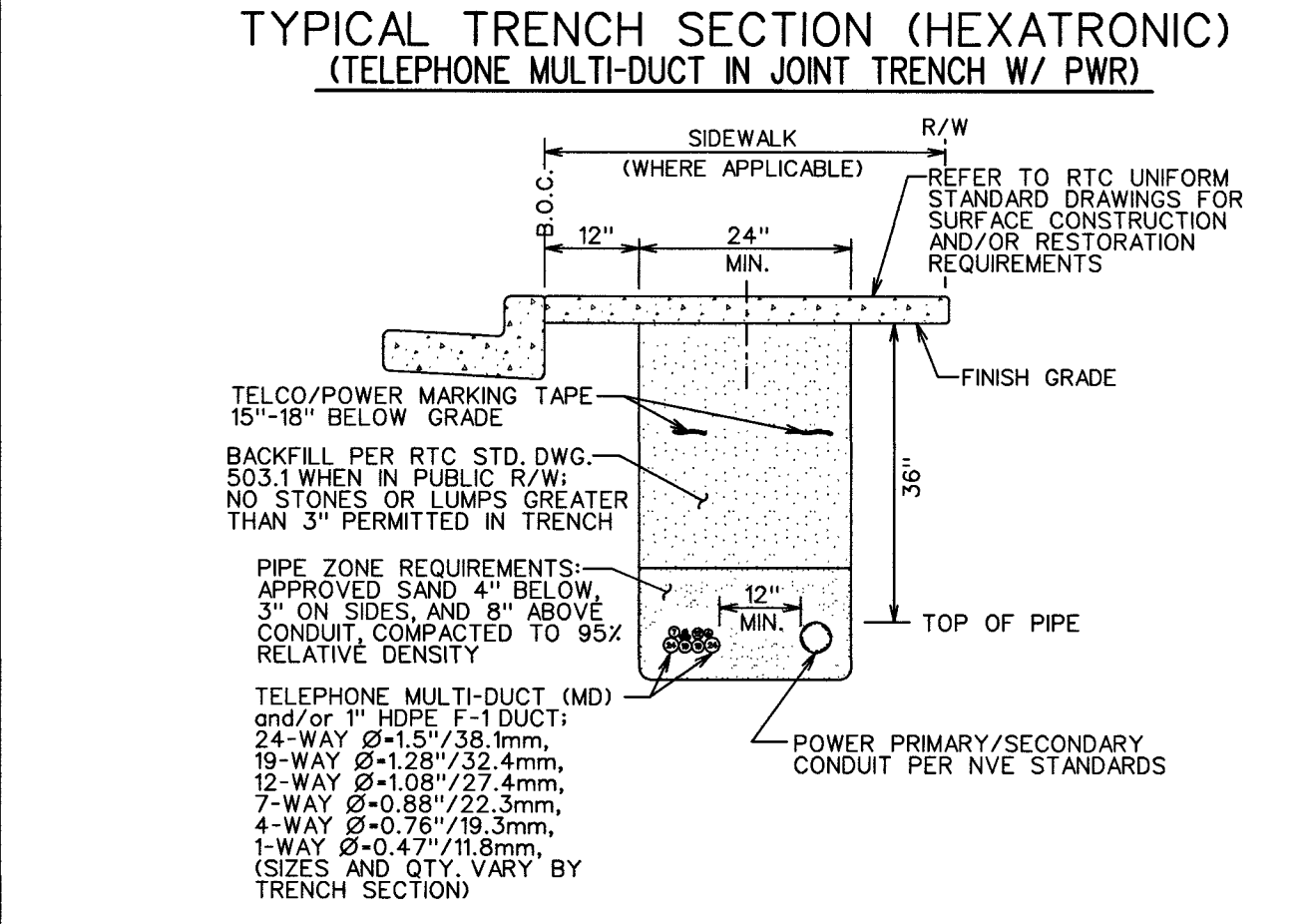
CONFIDENTIAL-Disclose and Distribute Solely to CTL Employees Having a Need to Know.

Sheet: 1 Issue Date: 3/4/19

OVERVIEW



TYPICAL TRENCH SECTION (HEXATRONIC)
(TELEPHONE MULTI-DUCT IN JOINT TRENCH W/ PWR)



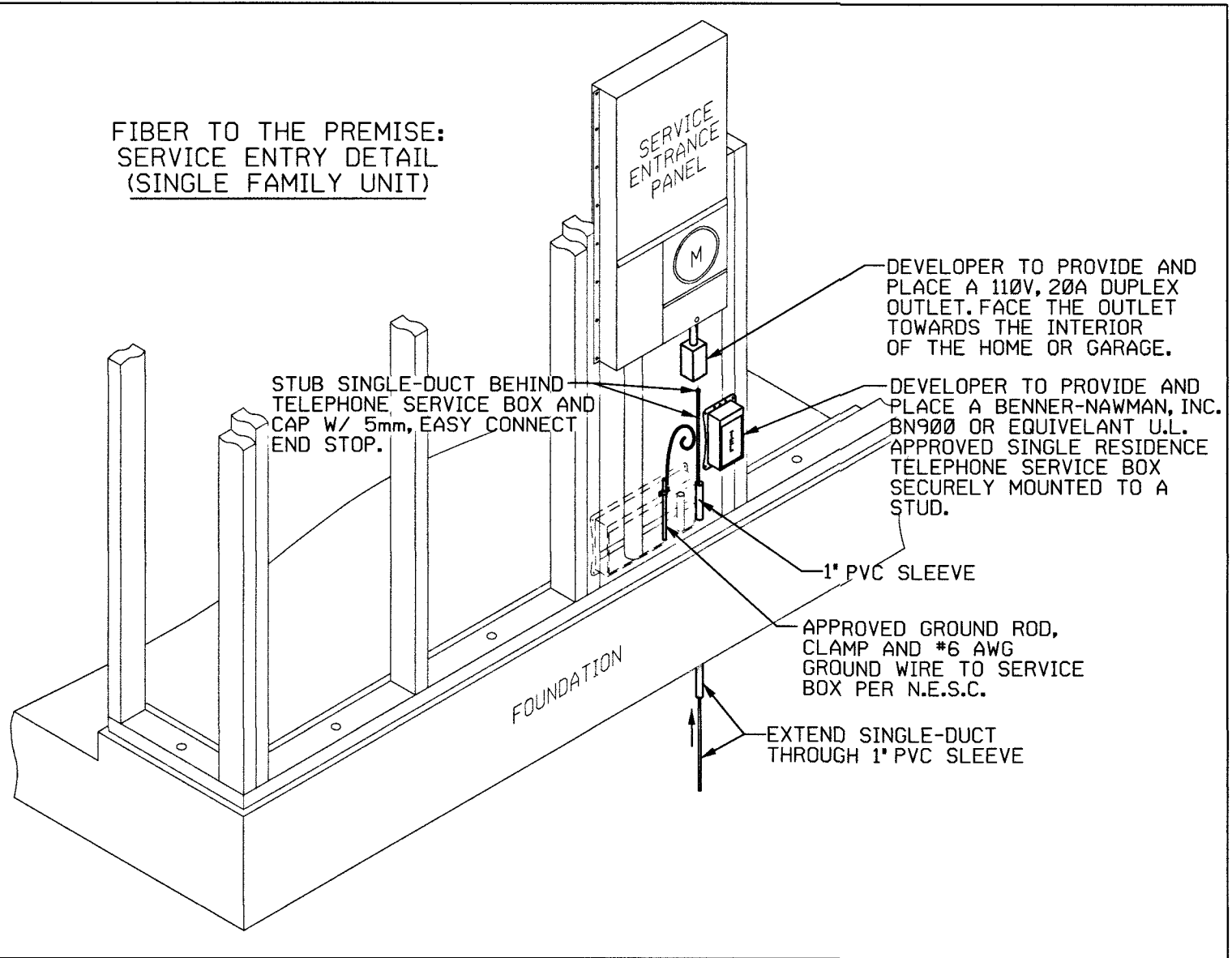
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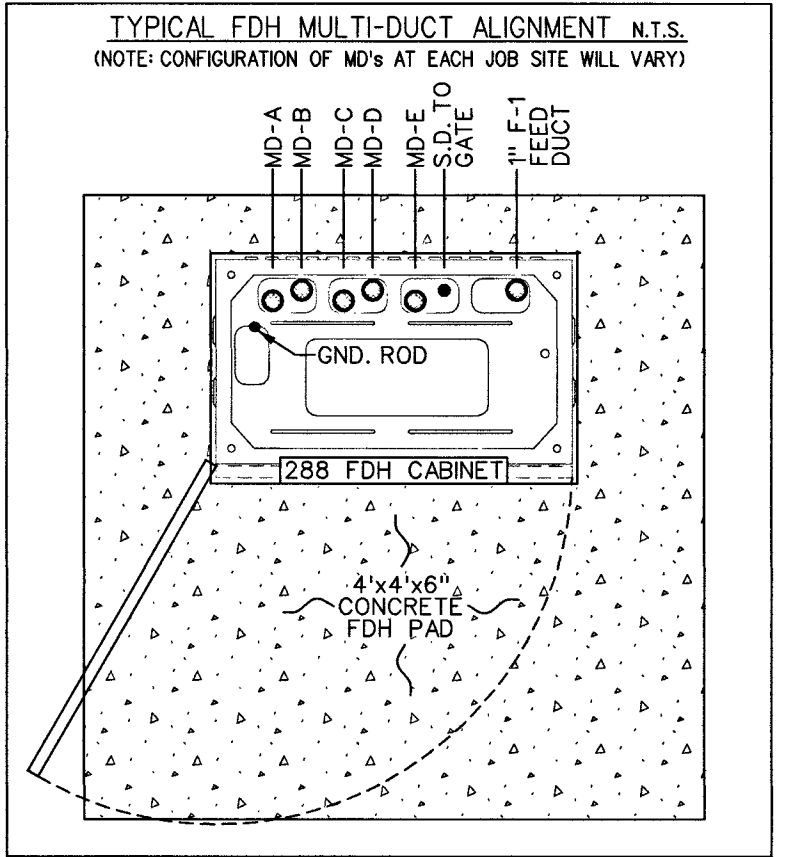
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 7/25/19
APPROVAL DATE

Project Description: RESIDENTIAL FIBER TO THE PREMISE (FTTP) T&S - HEXATRONIC

Project * N.503475

Community Name: BLM 33 SUBDIVISION

Exchange Key: WEST WEST

WC CLLI: LSVGNVXW

Remote Switch Exchange Key: N/A

Engineering Contact
Contract Engineer

Construction Coordinator

Revision 1:
Revision 2:

Name: Lori Johnson
Phone Number: 702-244-7899

Name: Kyle Cummings

Name: Stacie Booth
Phone Number: 702-244-7830

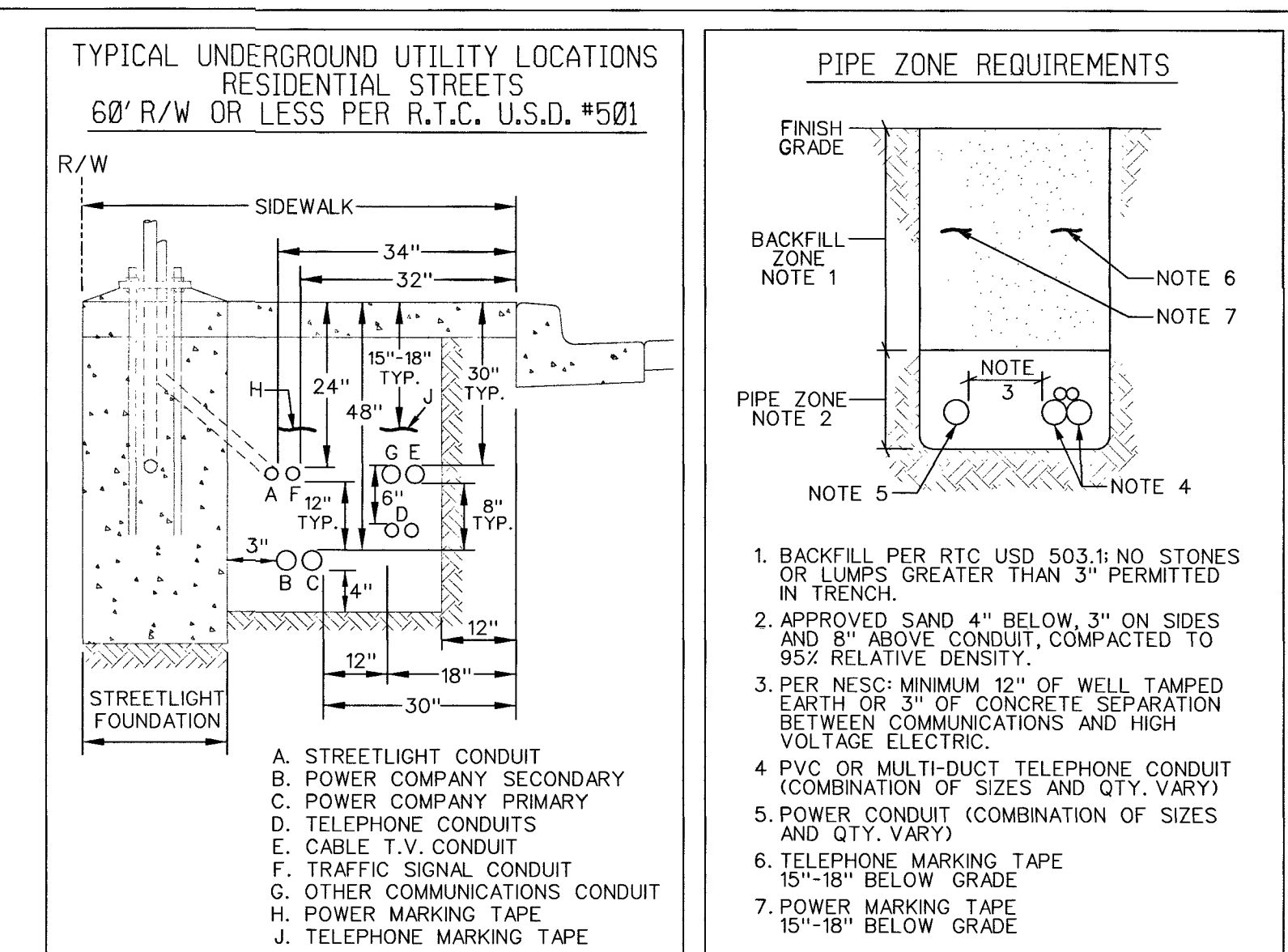
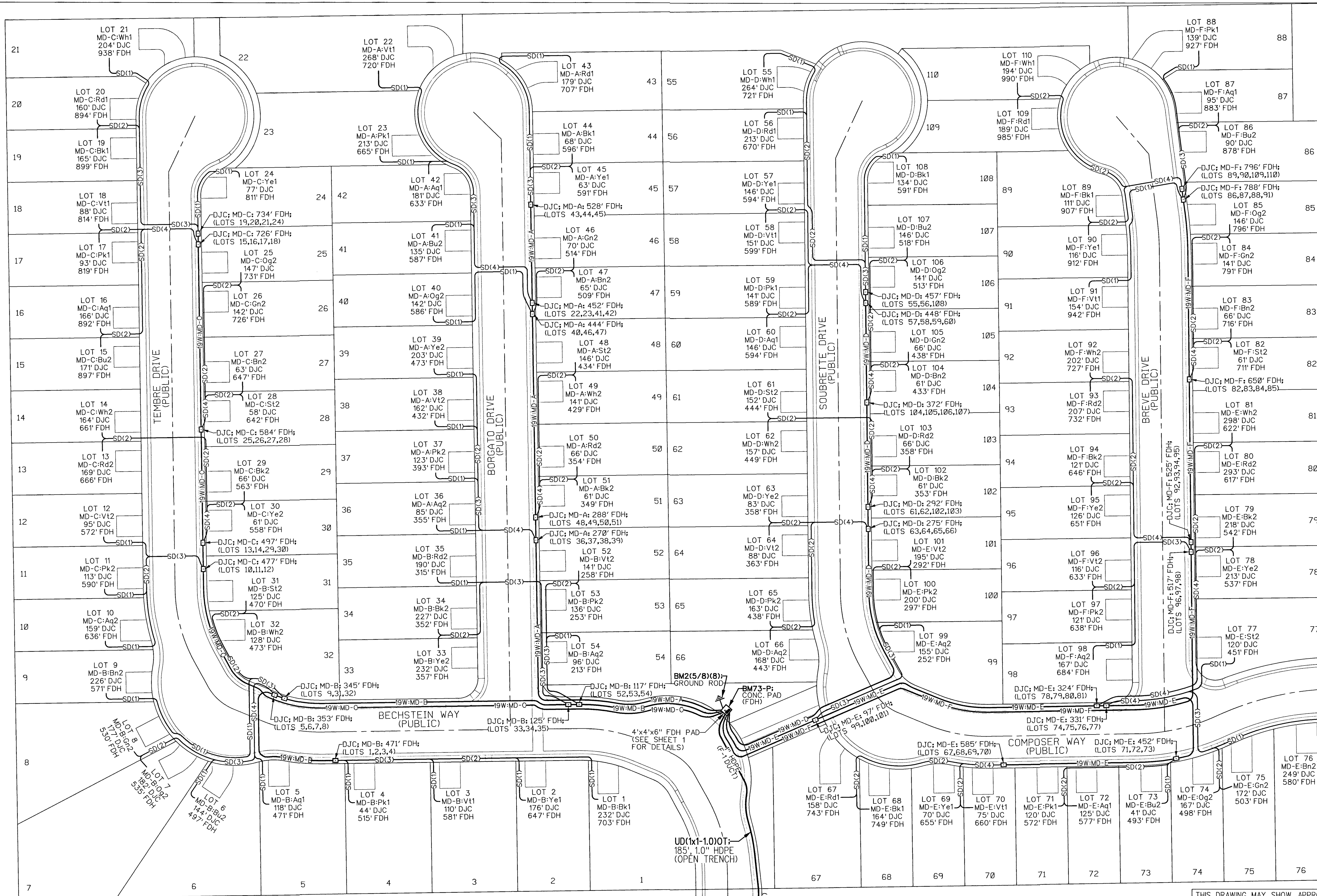
INSPECTOR: _____

DATE: _____

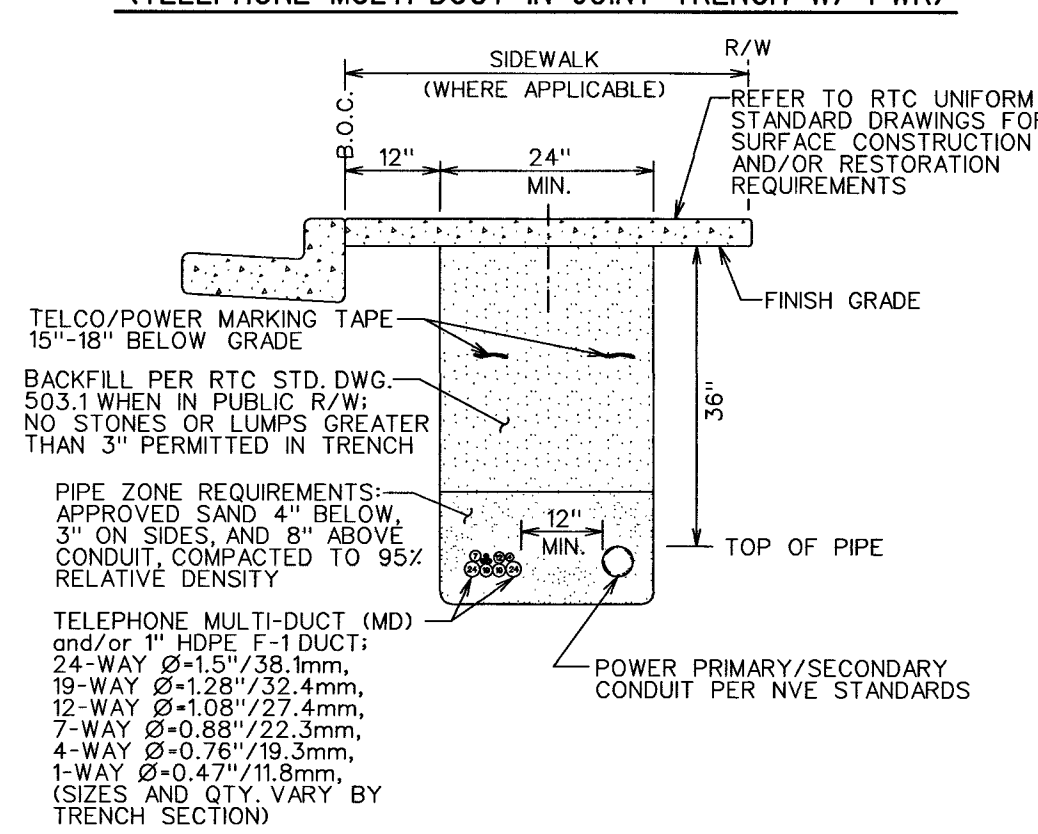
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CONFIDENTIAL-Disclose and Distribute Solely to CTL Employees Having a Need to Know.

Sheet: 1 Issue Date: 3/4/19



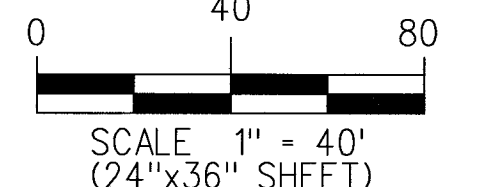
TYPICAL TRENCH SECTION (HEXATRONIC) (TELEPHONE MULTI-DUCT IN JOINT TRENCH W/ PWR)



TOTAL HEXATRONIC QUANTITIES:		
MATERIAL (HEX)	DESIGN EST.	ORDER QTY.
19W MULTI-DUCT	3,568'	4,920'
1W SINGLE-DUCT	15,558'	18,040'
DJC	30 EACH	30 EACH

ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST ISSUE; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE.

FIBER TO THE PREMISE (FTTP) / SINGLE FAMILY HOMES MINIMUM INSIDE WIRING REQUIREMENTS FOR CUSTOMER OWNED PREMISE WIRE (COPW) CUSTOMER OWNED PREMISE WIRE (COPW) SHALL CONSIST OF ONE SEPARATE CAT-5E/CAT6 FOR VOICE AND ONE SEPARATE CAT-5E/CAT6 FOR VIDEO/DATA. COPW SHALL BE RAN FROM THE OUTDOOR TELEPHONE SERVICE BOX TO EACH RJ11 (VOICE) AND RJ45 (DATA) JACK AS DESIGNATED BY THE BUILDER. CAT5E/CAT6 CABLE HAS AN EFFECTIVE RANGE OF 100 METERS OR 328 FEET. THE TOTAL LENGTH BETWEEN THE OUTDOOR DEMARK AND THE END ELECTRONICS SHOULD NOT EXCEED 328 FEET. CONTACT THE CENTURYLINK ENGINEER FOR ADDITIONAL INFORMATION REGARDING CENTURYLINK'S FIBER TO THE PREMISE DEPLOYMENTS FOR SINGLE FAMILY HOMES.



DEVELOPER/CONTRACTOR NOTE:
CALL CENTURYLINK'S CONTROL CENTER AT 702-244-7811 TO SCHEDULE INSPECTIONS OF OPEN TRENCH AS REQUIRED. ALLOW 48 HOURS ADVANCE NOTICE FOR DIRECT BURIED MULTI-DUCT IN OPEN TRENCH AND SIDE-LOT TRENCH SECTIONS. THE 48 HOURS BEGINS AFTER THE CENTURYLINK INSPECTOR APPROVES THE OPEN TRENCH.

F-1: FIBER FEED DUCT & FDH PAD
F-2: HEXATRONIC LAYOUT

SINGLE-DUCT (S.D.) NOTE:
1) CONTRACTOR TO COIL, TEST AND END CAP THE SINGLE-DUCT (S.D.) AT EACH LOT LINE WHERE DESIGNATED ON THE DRAWINGS.
2) LABEL EACH S.D. WITH THE LOT NUMBER.
3) LEAVE SUFFICIENT AMOUNT OF SINGLE-DUCT COILED AT THE SIDE LOT TRENCH TO REACH THE ENTRY POINT OF EACH HOME. NOTE THAT LENGTHS VARY TO EACH HOME DUE TO VARYING SETBACKS AT EACH LOT.
4) S.D. WILL BE EXTENDED TO EACH HOME AT A LATER DATE WHEN THE SIDE LOT TRENCHES ARE OPENED.

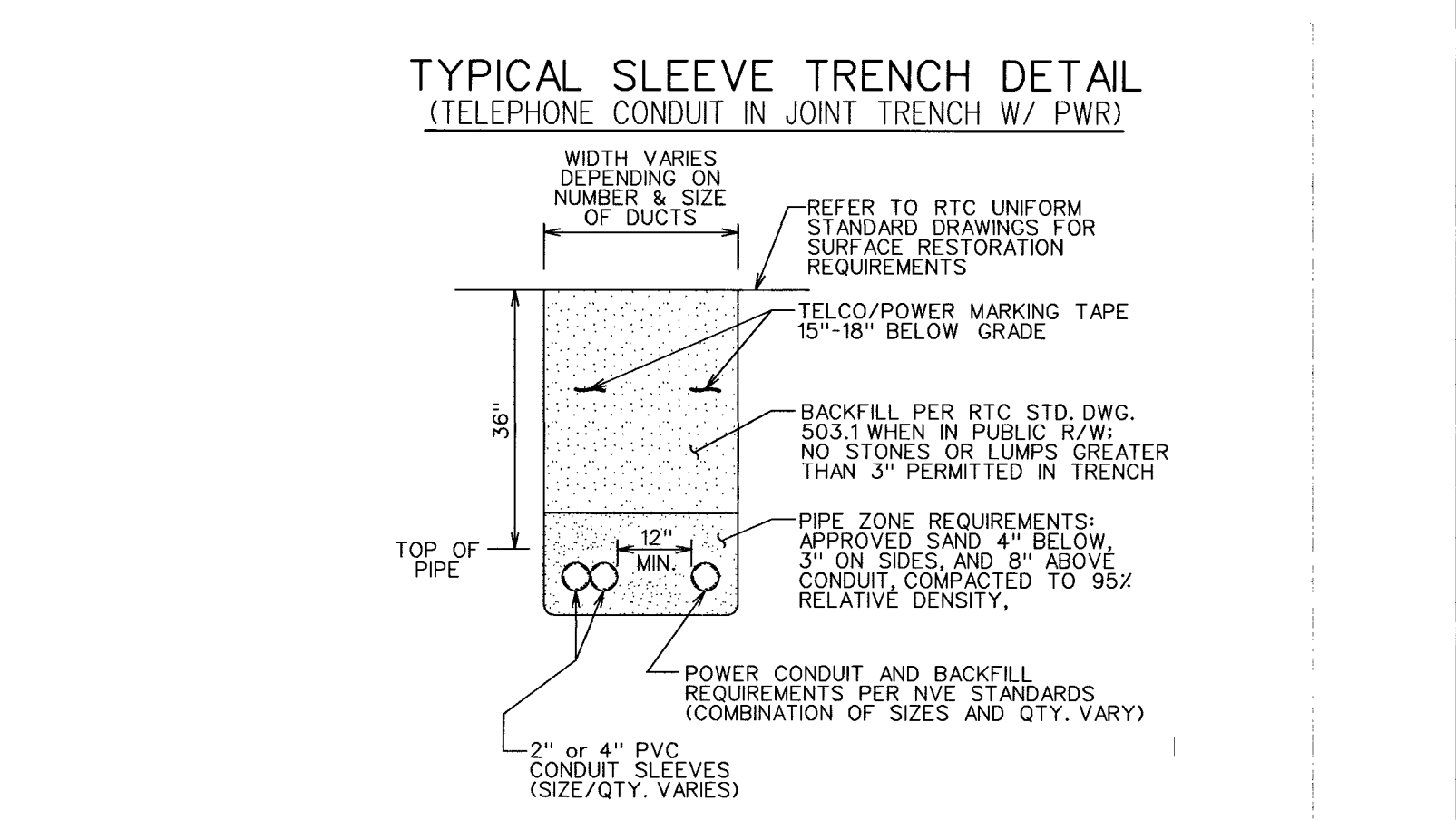
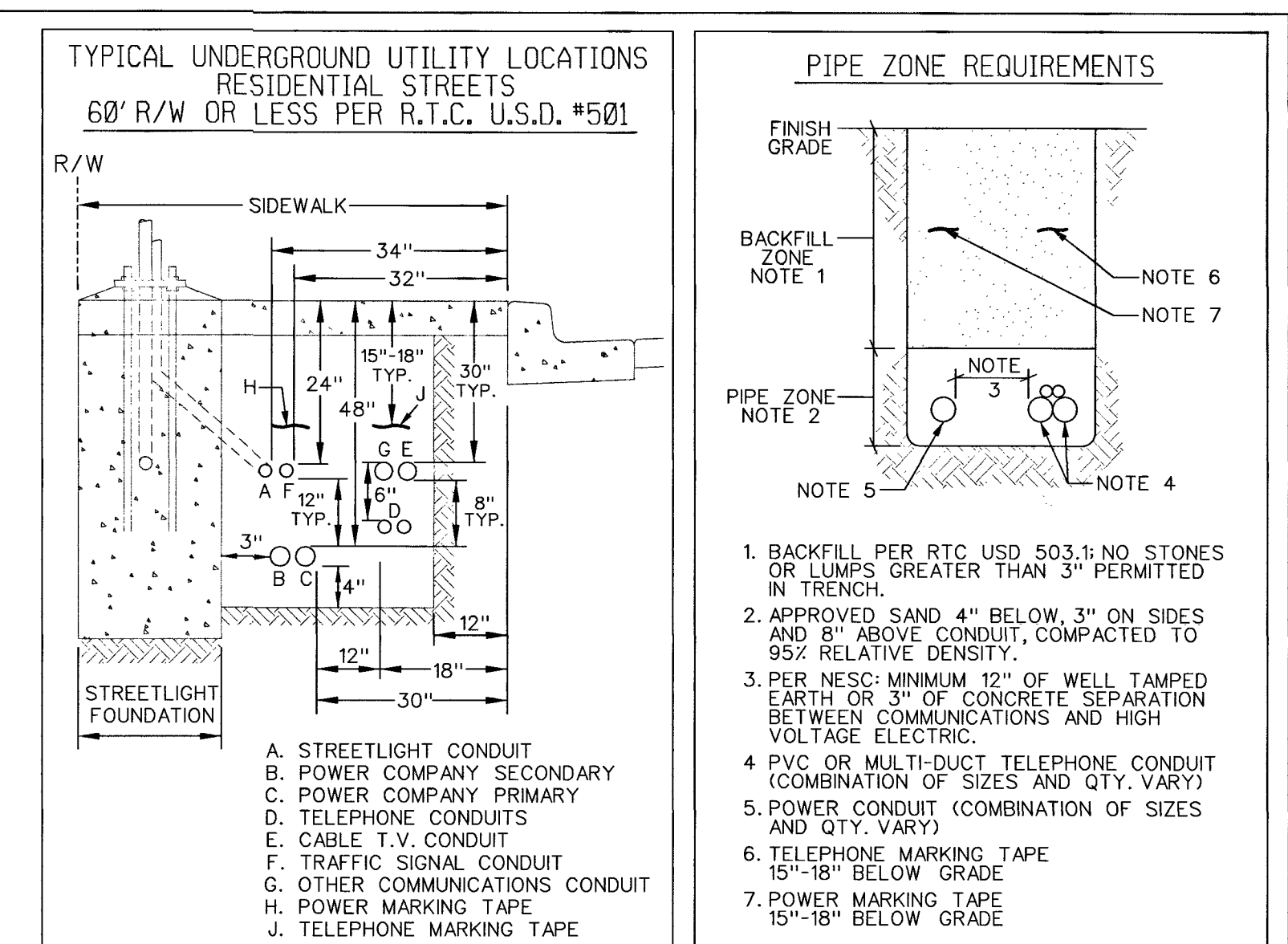
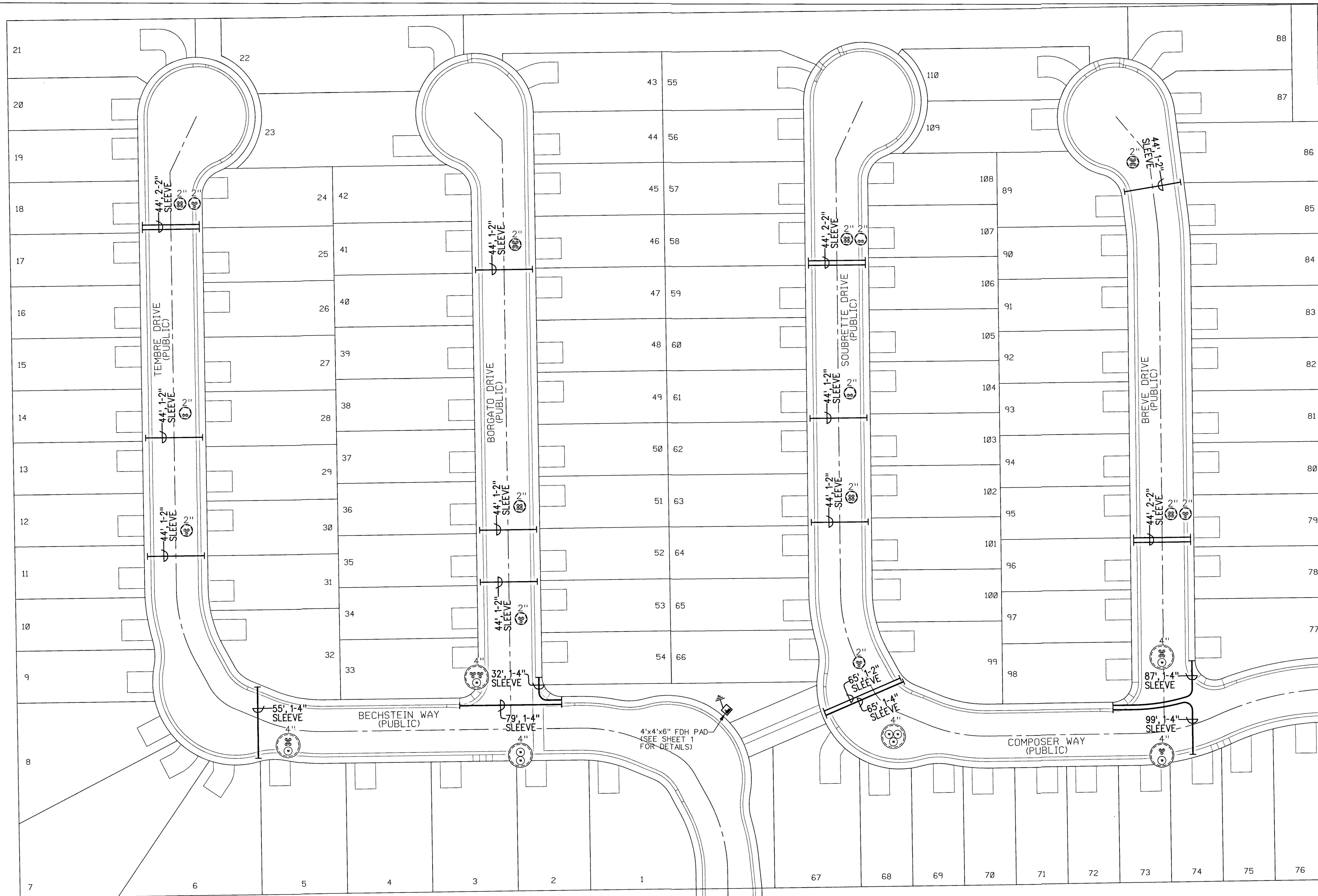
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APPROVED FOR CONSTRUCTION
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7/25/19
DATE

THIS PROJECT HAS BEEN DESIGNED AS JOINT TRENCH WITH NV ENERGY PER THE LATEST NV ENERGY PLAN. NOTIFY THE CENTURYLINK ENGINEER IMMEDIATELY IF REVISIONS OCCUR.

CITY OF LAS VEGAS PERMIT REQUIRED *		AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY. CALL 811 OR 1-800-227-2600	
DEVELOPER/CONTRACTOR SHALL OBTAIN A CITY PERMIT BEFORE ANY EXCAVATION WORK WITHIN CITY OF LAS VEGAS RIGHT-OF-WAY		INSPECTOR: _____ DATE: _____	
*CENTURYLINK INSPECTOR WILL VERIFY CITY PERMIT FOR WORK DONE WITHIN CITY OF LAS VEGAS RIGHT-OF-WAY			

Project Description: RESIDENTIAL FIBER TO THE PREMISE (FTTP) T&S - HEXATRONIC		Engineering Contact Name: Lori Johnson Phone Number: 702-244-7899	
Project # N.503475		Contract Engineer Name: Kyle Cummings	
Community Name: BLM 33 SUBDIVISION		Construction Coordinator Name: Stacie Booth Phone Number: 702-244-7830	
Exchange Key: WEST WEST		Remote Switch Exchange Key: N/A	
WC CLLI: LSVGNVXW		Revision 1: Revision 2:	



RE-IMBURSEABLE PROJECT QUANTITIES
THE DEVELOPER'S CONTRACTOR MAY SUBMIT A PROPOSAL FOR THIS WORK PER THE LATEST STANDARD CONTRACTOR PRICE LIST.

MATERIAL ITEMS (ALL TRENCHING BY DEVELOPER)	EST. QTY.
4" D.B. 100 GRADE PVC	418 L.F.
2" D.B. 60 GRADE PVC	680 L.F.
4"x48" SCH. 40 PVC 90° BENDS	3 EACH
2"x36" SCH. 40 PVC 90° BENDS	0 EACH

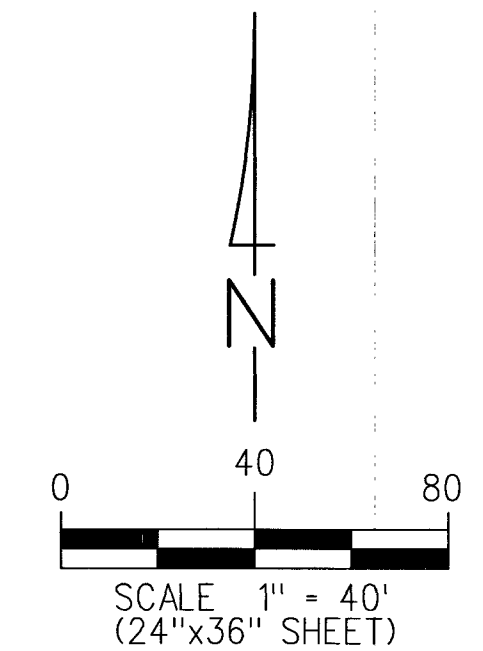
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Luis
APPROVAL

7/25/19
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STREET CROSSINGS - SLEEVES and GATE SERVICE CABINETS

CITY OF LAS VEGAS PERMIT REQUIRED *		AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY. CALL 811 OR 1-800-227-2600
DEVELOPER/CONTRACTOR SHALL OBTAIN A CITY PERMIT BEFORE ANY EXCAVATION WORK WITHIN CITY OF LAS VEGAS RIGHT-OF-WAY *CENTURYLINK INSPECTOR WILL VERIFY CITY PERMIT FOR WORK DONE WITHIN CITY OF LAS VEGAS RIGHT-OF-WAY		
INSPECTOR:	DATE:	

Project Description: RESIDENTIAL FIBER TO THE PREMISE (FTTP) T&S - HEXATRONIC		Engineering Contact: Name: Lori Johnson Phone Number: 702-244-7899	
Project # N.503475		Contract Engineer: Name: Kyle Cummings	
Community Name: BLM 33 SUBDIVISION		Construction Coordinator: Name: Stacie Booth Phone Number: 702-244-7830	
Exchange Key: WEST WEST		Remote Switch Exchange Key: N/A	
WC CLLI: LSVGNVXW		Revision 1: Revision 2:	

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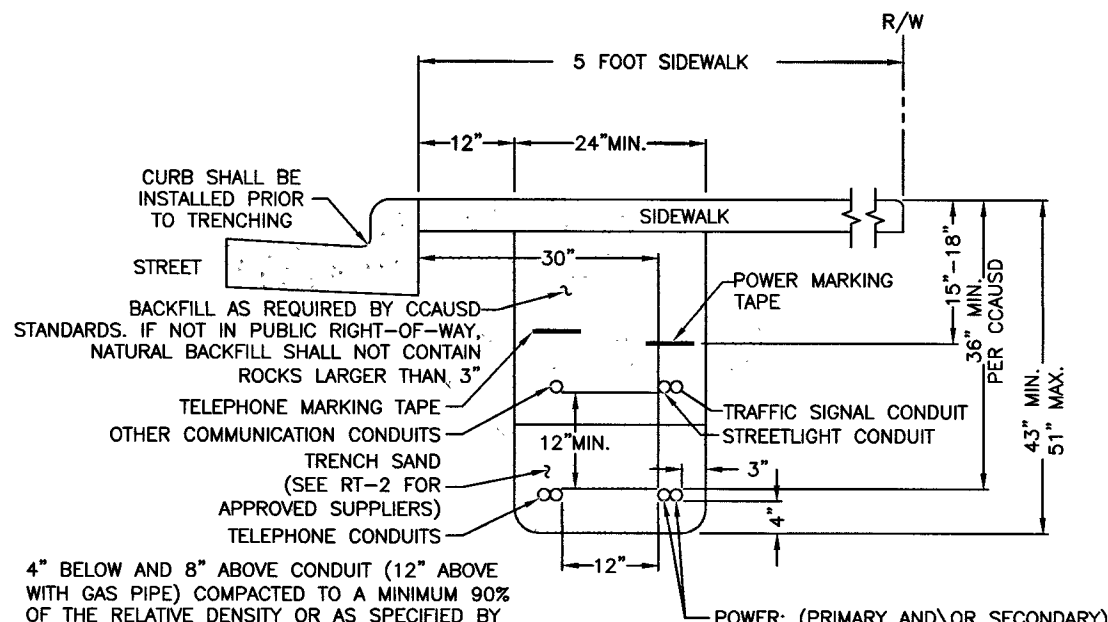
Sheet: 2A

Issue Date: 3/4/19

NV ENERGY SCHEDULING NOTE: DAY (LANE BLOCKS)

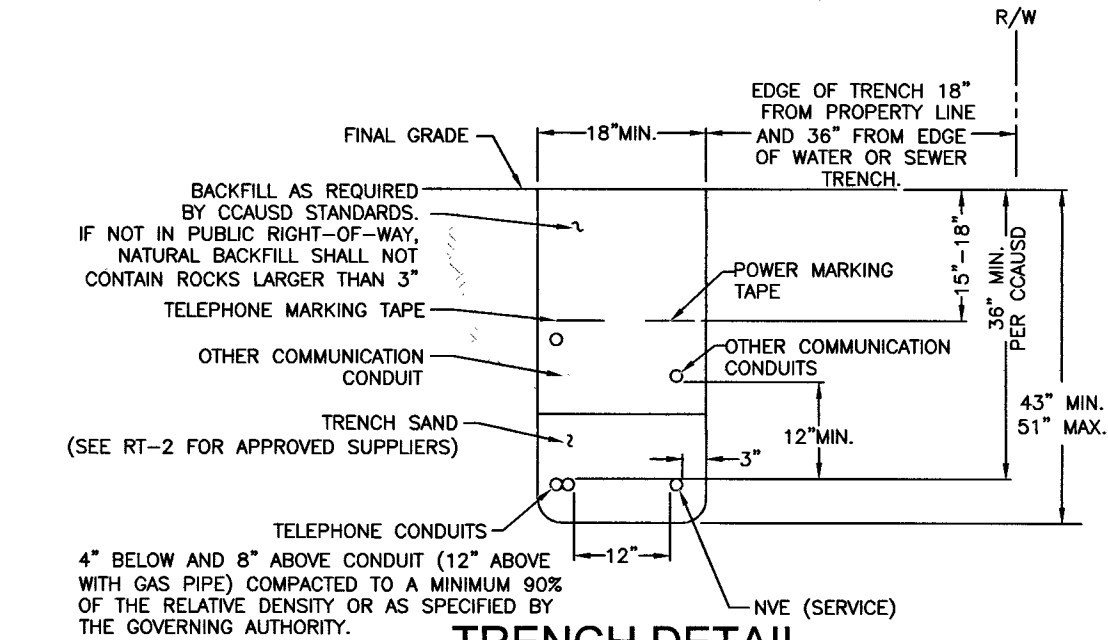
THIS PROJECT WAS ESTIMATED WITH THE ASSUMPTION THAT ALL THE WORK BEING PERFORMED ON THIS PROJECT BY NV ENERGY CREWS CAN BE DONE DURING THE DAYTIME AND WILL REQUIRE TRAFFIC CONTROL.

GOVERNMENT APPROVAL OF THESE DRAWINGS DOES NOT INDICATE APPROVAL OF TRAFFIC CONTROL. PLEASE REFER TO THE BARRICADE PLAN FOR APPROVED TRAFFIC CONTROL REQUIREMENTS.



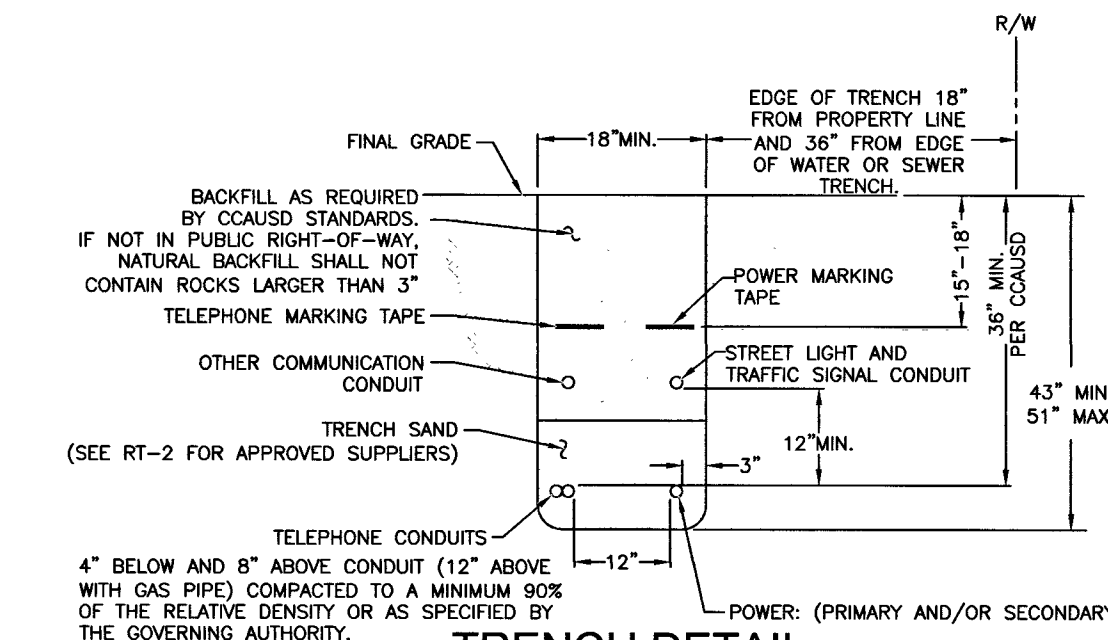
SIDEWALK TRENCH DETAIL

NVE U.G. STD. RT-7 (REV. 10/27/2014)
(RESIDENTIAL OR COMMERCIAL)



TRENCH DETAIL

NVE U.G. STD. RT-8 (REV. 10/27/2014)
(RESIDENTIAL SERVICE)



TRENCH DETAIL

NVE U.G. STD. RT-12 (REV. 10/27/2014)
(RESIDENTIAL AND COMMERCIAL)

CONSTRUCTION / INSPECTION REQUIREMENTS

WORK MUST CONFORM TO NVE ELECTRIC SERVICE STANDARDS, AVAILABLE AT:
www.nvenergy.com/business/newconstruction/newconstruction5/servicestandards.cfm

NVE INSPECTOR MUST BE PRESENT TO INSPECT TRENCHING (SCHEDULE AT LEAST 72 HOURS IN ADVANCE) AT EACH OF THE FOLLOWING STAGES:

1. BOTTOM SAND AND CONDUIT INSTALLED
2. TOP SAND INSTALLED
3. BACKFILL INSTALLED

CONDUIT MUST BE MANDRILLED PRIOR TO RELEASE (COORDINATE WITH INSPECTOR).

NVE STAND BY CREW IS REQUIRED WHEN WORKING AT AN ENERGIZED VAULT OR TRANSFORMER. CALL STAND BY NUMBER (SEE TITLE BLOCK) TO SCHEDULE.

NVE ELECTRICAL INSTALLATION WILL NOT BE SCHEDULED UNTIL AFTER THE NVE INSPECTOR HAS COMPLETED THE OFFICIAL RELEASE.

METER(S) WILL NOT BE SET UNTIL ALL OF THE FOLLOWING ARE COMPLETE:

- [INSTRUMENT-RATED ONLY] METERING EQUIPMENT HAS BEEN SUBMITTED TO NVE METERING ENGINEER AND APPROVED. (submittals_southern@nvenergy.com)
- APPLICATION FOR METER SET HAS BEEN SUBMITTED TO NVE'S NEW DEVELOPMENT CENTER. FORM AVAILABLE AT:
www.nvenergy.com/brochures_arch/new_construction/meter_set.pdf
- THE LOCAL BUILDING AUTHORITY HAS INSPECTED AND APPROVED THE METERING EQUIPMENT.
- METERING EQUIPMENT IS ACCESSIBLE AND CLEARLY IDENTIFIED WITH PERMANENT MARKINGS. ADDRESSES, SUITE NUMBERS, AND STREET SIGNS ARE POSTED IN PERMANENT LOCATIONS (SEE RPI-G).

TRACK PROJECT STATUS ONLINE WITH NVE'S DEVELOPER DASHBOARD:

www.nvenergy.com/business/newconstruction/newconstruction5/developerdashboard.cfm

TRANSMISSION REQUIREMENTS

COMPLIANCE WITH ALL NESC AND OSHA REQUIREMENTS. MATERIALS AND EQUIPMENT CANNOT BE STOCKPILED UNDER LINES. POLE BOLLARDS ARE REQUIRED AND SHALL BE INSTALLED BY THE OWNER IF PARKING IS WITHIN 10' OF ANY TRANSMISSION STRUCTURE. A 40'X40' SQUARE MUST BE MAINTAINED ON ONE SIDE OF A TANGENT STRUCTURE AND A 20'X20' SQUARE AROUND A DEAD END STRUCTURE TO ALLOW ACCESS FOR MAINTENANCE PURPOSES. CUSTOMER MUST OBTAIN PRIOR APPROVAL FROM TRANSMISSION ENGINEERING FOR FUTURE PROJECTS AND ANY CHANGES OR REVISIONS TO THIS PROJECT INCLUDING BUT NOT LIMITED TO THE FOLLOWING ITEMS:

- PARKING OR STORAGE OF VEHICLES EXCEEDING 8' IN HEIGHT
- COVERED PARKING
- PARKING LIGHTS
- METALLIC FENCES OR BLOCK WALLS
- TRASH ENCLOSURES
- BUILDINGS OR STRUCTURES AND FREE STANDING SIGNS
- SWIMMING POOLS
- PINE AND PALM TREES
- ELEVATION OR GRADE CHANGES

CONTRACTOR SHALL MAINTAIN RADIUS OF 10' PLUS 1:1 SLOPE OF UNDISTURBED SOIL AROUND POLES OR CONTRACTOR WILL NEED TO PROVIDE FOR TRENCH SHORING AND/OR BRACING. CONTRACTOR MAY OBTAIN WAIVER FROM NVE CONSTRUCTION SUPERVISOR.

!!!! CAUTION !!!!

ENERGIZED CABLES...
CALL BEFORE YOU DIG

CONDUIT SEALING REQUIREMENT:

CONDUIT SEALING PER NESC AND/OR NEC LATEST VERSION:

ALL ELECTRIC CONDUITS ENTERING BUILDING THROUGH OR PENETRATING CONCRETE SLAB SHALL BE SEALED AT BOTH ENDS WITH EXPANDING PLUG(S) AFTER CONDUIT IS MANDRILLED.

NVE WILL INSTALL A PERMANENT SEAL AFTER CONDUCTORS ARE INSTALLED.

CUSTOMER NOTE:

UNLESS OTHERWISE NOTED, ALL CONDUIT, BENDS AND SUBSTRUCTURES ARE THE RESPONSIBILITY OF THE CUSTOMER'S CONTRACTOR, OR ASSIGNED DCA CONTRACTOR (RESIDENTIAL ONLY)

NVE WILL NOT VERIFY THE EXISTING CONDUIT. CUSTOMER TO ENSURE ITS INTEGRITY AND REPAIR IF NECESSARY.

SINGLE-PHASE TRANSFORMER LOCATION DETAIL

NVE U.G. STD. RS-5 & RS-13 (RESIDENTIAL) & RS-19 (COMMERCIAL)

DAY TIME OUTAGE:

ADDRESS(ES):

METER QTY:

7900 FANCIFUL AVE	1
7901 FANCIFUL AVE	1
7904 FANCIFUL AVE	1
7905 FANCIFUL AVE	1
7908 FANCIFUL AVE	1
7909 FANCIFUL AVE	1
7912 FANCIFUL AVE	1
7913 FANCIFUL AVE	1
7916 FANCIFUL AVE	1
7917 FANCIFUL AVE	1
7920 FANCIFUL AVE	1
7921 FANCIFUL AVE	1
7924 FANCIFUL AVE	1
7925 FANCIFUL AVE	1
7928 FANCIFUL AVE	1
7929 FANCIFUL AVE	1
7932 FANCIFUL AVE	1
100 DEERFLY WAY	1
101 DEERFLY WAY	1
104 DEERFLY WAY	1
105 DEERFLY WAY	1
108 DEERFLY WAY	1
109 DEERFLY WAY	1
112 DEERFLY WAY	1
116 DEERFLY WAY	1
120 DEERFLY WAY	1
124 DEERFLY WAY	1
7913 REDBUTTE AVE	1
7916 REDBUTTE AVE	1
7917 REDBUTTE AVE	1
7920 REDBUTTE AVE	1
7921 REDBUTTE AVE	1
7924 REDBUTTE AVE	1
7928 REDBUTTE AVE	1

FIRE HYDRANT CLEARANCE:

6' RADIUS FROM CENTER OF HYDRANT TO ALL ABOVE GROUND PADS AND/OR EQUIPMENT AND ALL MANHOLES AND SWITCHBOXES.

6' RADIUS FROM CENTER OF HYDRANT TO ALL UNDERGROUND HANDHOLES, PULLBOXES AND SPLICEBOXES. ALL PER NVEnergy STD. RS-5

NOTE:

NPC FACILITIES (SUBSTRUCTURES) ARE NOT TO BE WITHIN 5' OF STREET LIGHT BASES, AND NPC CONDUITS ARE NOT TO CONFLICT WITH STREET LIGHT BASES

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 TRANSVERSE CUT
③	500.3	OVER 5 YEARS PAVEMENT RESTORATION LONGITUDINAL CUT. GREATER THAN 60' R.O.W
④	500.4	OVER 5 YRS PAVEMENT RESTORATION LONGITUDINAL CUT. 60' R.O.W OR LESS
⑤	500.5	OVER 5 YRS PAVEMENT RESTORATION TRANSVERSE 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	BACKFILL	IN UNPAVED AREA AS REQUIRED BY LOCAL CODE OR AS APPROVED BY AGENCY.
⑪	234	SIDEWALK
⑫	506	UTILITY POTHOLE REPAIR
⑬	216	"L" TYPE CURB AND GUTTER

NVEnergy REQUIRES 24 HOUR ACCESS TO EQUIPMENT

METER LOCATION & ACCESS REQUIREMENTS

(NV ENERGY STANDARDS RPI-2 & RPI-G)

MIN. 3'X3' CLEAR, LEVEL SPACE (SAFE WORK SPACE) REQUIRED DIRECTLY IN FRONT OF METER. THIS SPACE SHALL NOT BE PART OF A DRIVEWAY OR SUBJECT TO VEHICULAR TRAFFIC.

SERVICE POINT TO BE NO GREATER THAN 100' FROM BACK OF CURB OR PUBLIC EASEMENT (NO GREATER THAN 25' FROM SIDE STREET OR ALLEY).

A SERVICE PEDESTAL MUST BE 5' MIN. FROM BACK OF CURB, 6' MIN. FROM DRIVEWAY OR OTHER TRAFFIC AREA.

BOTH SERVICE POINT AND SAFE WORK SPACE TO BE DIRECTLY VISIBLE FROM BACK OF CURB OR PUBLIC EASEMENT, AND MUST BE READILY ACCESSIBLE TO NV ENERGY AT ALL TIMES WITHOUT REQUIRING PASSAGE THROUGH RESTRICTED AREAS OR REQUIRING CUSTOMER CONTACT. FENCES, GATES, WALLS, OR OTHER OBSTRUCTIONS IN FRONT OF THE SERVICE POINT ARE PROHIBITED.

VISIBILITY, ACCESSIBILITY, AND SAFE WORK SPACE MUST BE MAINTAINED FOR THE ENTIRE LIFE OF THE SERVICE.

UNLESS OTHERWISE NOTED:

ALL SERVICE CONDUCTOR: 2/0 AL. TRI.

ALL TRANSFORMERS: 7200V-120/240V-1Ø PM

LARGEST A/C UNIT SIZE: 4 TONS

NUMBER OF UNITS: 110

MAIN SIZE: 225 AMPS

ESTIMATED KVA PER UNIT: 7.8 KVA

SQ. FT. OF LARGEST UNIT: 2435 FT²

NOTE: ALL THE ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF CLV UNIFIED DEVELOPMENT CODE TITLE 19.06 AND 19.08

APPROVED FOR CONSTRUCTION

THIS APPROVAL IS FOR WORK IN CLV R/W & EASEMENT ONLY. OBTAINING PERMISSIONS OR EASEMENTS FOR WORK SHOWN ON PRIVATE PROPERTY IS THE RESPONSIBILITY OF THE UTILITY.

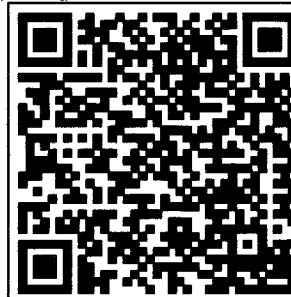
APPROVAL BY: 7/25/19 DATE

LOOP BETWEEN XFMR'S AA174 & PMT812

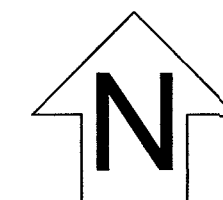
SOURCE	PROJECT CONNECTED LOAD (3Ø)				LOOP
FC OR RISER	PH.	EX: KVA	ADDED KVA	TOTAL KVA	FC OR RISER
<u>U1455</u>	A	0	0	0	<u>U579Q1</u>
<u>---</u>	B	325	-325	0	<u>---</u>
<u>VGS1212</u>	C	225	825	1050	<u>VGS1212</u>

LOOP BETWEEN XFMR'S BB759 & NN843

SOURCE	PROJECT CONNECTED LOAD (3Ø)				LOOP
FC OR RSER	PH.	EX: KVA	ADDED KVA	TOTAL KVA	FC OR RSER
U1455	A	0	0	0	U580Q1
---	B	0	0	0	---
VGS1212	C	650	450	1100	VGS1212



NVE STANDARDS



T,R,S: 20-60-28

APN: 138-28-801-002

138-28-801-003

GENERAL NOTES:

ANY NOTES LOCATED IN DRAWING AREA TAKE

PRECEDENCE OVER STANDARD NOTES.

REFER TO A CURRENT NVEnergy ELECTRIC SERVICE REQUIREMENTS HANDBOOK FOR FURTHER CLARIFICATION OF NVEnergy STANDARDS.

THE APPLICANT SHALL INFORM THE INSPECTOR AT LEAST 48 HOURS BEFORE COMMENCING ANY ITEM OF CONSTRUCTION OR INSTALLATION OF MATERIAL TO ENABLE PROPER INSPECTION OF MATERIALS AND WORKMANSHIP. MAIN TRENCH WIRE PULLS TO BE SCHEDULED 72 HOURS IN ADVANCE OF INSTALLATION. APPLICANT'S PROJECT WILL NOT BE SCHEDULED UNTIL FINAL APPROVAL FROM NVEnergy UNDERGROUND & ELECTRICAL INSPECTORS.

ALL WORK SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE SPECIFICATIONS SET FORTH IN THE ELECTRIC SERVICE REQUIREMENTS HANDBOOK, AS CURRENTLY ADOPTED BY NVEnergy. THE CONTRACTOR SHALL SECURE COPIES OF THE AFOREMENTIONED CONSTRUCTION SPECIFICATIONS ON HIS OR HER OWN BEHALF.

SYMBOLS ARE NOT TO SCALE AND DO NOT NECESSARILY REPRESENT ACTUAL LOCATIONS OF FACILITIES.

THIS DRAWING ILLUSTRATES DATA COLLECTED FROM VARIOUS SOURCES AND MAY NOT REPRESENT A SURVEY OF THE PREMISES.

APPLICANT SHALL FIELD DETERMINE POSITION AND DEPTH OF EXISTING UTILITY EQUIPMENT PRIOR TO COMMENCING CONSTRUCTION.

USE CAUTION PRIOR TO EXCAVATION. CHECK TO ENSURE ADDITIONAL DEPTH IS NOT REQUIRED TO ACCOMMODATE GAS AND/OR WATER FACILITIES AND DRAINAGE CHANNELS.

CALL NVEnergy UNDERGROUND INSPECTORS 48 HOURS PRIOR TO START OF CONSTRUCTION FOR TRENCH INSPECTION BEFORE COVERING TRENCH.

ALL NVEnergy CABLE TO BE INSTALLED BEHIND CURB, UNLESS OTHERWISE STATED.

APPLICANT IS RESPONSIBLE FOR STAKING OF PROPERTY CORNERS & ELEVATIONS.

ALL HANDHOLES AND PULLBOXES SHALL BE INSTALLED TO FINISHED GRADE OR 6" ABOVE IF GRADE IS NOT ESTABLISHED.

ANY SUBSTRUCTURE VAULT INSTALLED IN GRAVEL, GRASS, OR BARE GROUND WILL REQUIRE A CONCRETE 8" WIDE AND 6" DEEP COLLAR AROUND BOX IN ACCORDANCE TO RS-G6.

2" PLASTIC CONDUIT BENDS (90°, 45°) WITH 36" MIN. RADIUS. (USE FIBERGLASS IF CONDUIT LENGTH IS OVER 500')

3" & 4" PLASTIC CONDUIT BENDS (90°, 45°) WITH 36" MIN. RADIUS. (USE RGS IF CONDUIT LENGTH IS OVER 100')

6" PLASTIC CONDUIT BENDS (90°, 45°) WITH 48" MIN. RADIUS. (USE RGS IF CONDUIT LENGTH IS OVER 100')

WHEN INSTALLING CONDUIT IN FIELD, USE APPROPRIATE BENDS TO COMPLETE THE INSTALLATION.

DEFLECTION OF CONDUIT BENDS AND CONDUIT NOT TO EXCEED NVEnergy STANDARDS.

EXISTING STUB-OUT/CONDUIT INSTALLED BY PREVIOUS CONTRACTOR / DEVELOPER. NVEnergy DOES NOT GUARANTEE LOCATION, LENGTH, OR ACCESSIBILITY OF EXISTING STUB-OUT/CONDUIT. IF UTILIZING ANY PORTION OF EXISTING CONDUIT, IT MUST BE MANDRELED PRIOR TO FINAL RELEASE.

PREVIOUSLY MANDRELED CONDUIT WHICH HAS BEEN IN THE GROUND FOR OVER 6 MONTHS MUST BE RE-MANDRILLED PRIOR TO FINAL RELEASE.

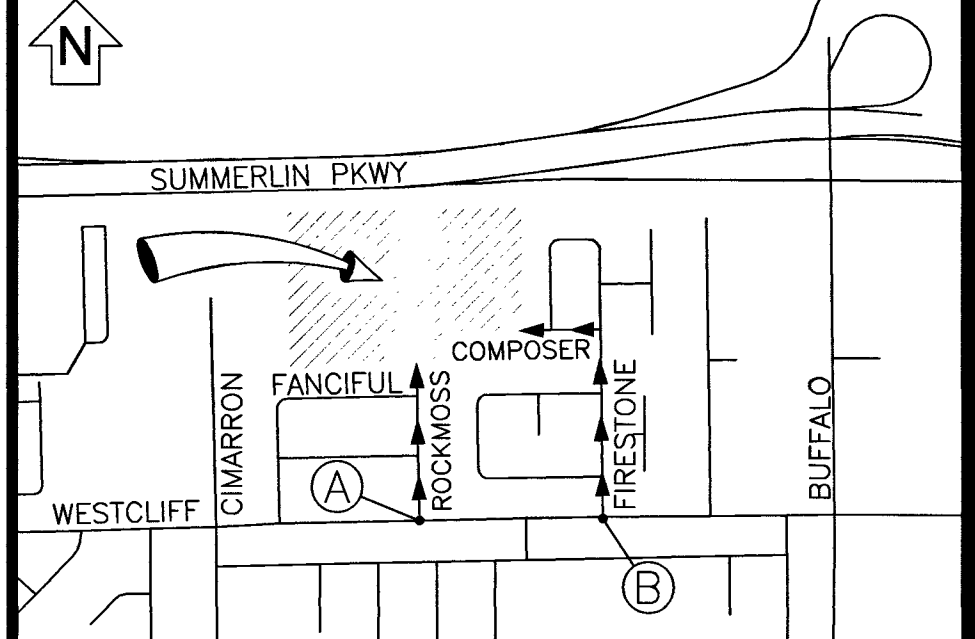
WHEN NVEnergy FACILITIES ARE TO BE REMOVED, NVEnergy WILL REMOVE ALL WIRES AND EQUIPMENT. NVEnergy IS NOT RESPONSIBLE FOR THE REMOVAL OF CONDUIT RUNS OR SUBSTRUCTURES FROM THE PROPERTY.

NO COVERED PARKING IN FRONT OF EQUIPMENT.

ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST ISSUE; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE.

CIVIL LINETYPE LEGEND

CENTERLINE	---
PROPERTY LINE/ROW	---
CURB	---
EDGE OF PAVEMENT	---
EDGE OF SIDEWALK	---
SEWER LINE	---
WATER LINE	---
COHW WATER LINE	---
LYWWD WATER LINE	---
SNWA WATER LINE	---
GAS LINE	---
TELEPHONE LINE	---
CABLE TV LINE	---
CABLE TV LINE	---
STORM DRAIN LINE	---
FIRE HYDRANT	---
SIGNAL LIGHT	---
STREET LIGHT	---



VICINITY MAP

(NOT TO SCALE)

EVERY EFFORT HAS BEEN MADE TO IDENTIFY ALL NVE FACILITIES. THE CUSTOMER SHALL CONFIRM THE EXISTENCE AND LOCATION OF THESE FACILITIES.

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY

CALL BEFORE YOU DO OVERHEAD

CALL 1-702-402-2929

Call before you Dig
Avoid cutting underground utility lines. It's costly.

CALL 811

OR
1-800-227-2600
AND CLARK COUNTY TRAFFIC OPERATIONS
1-702-455-6000

REVISIONS

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STANDARD DCA

PROJECT PURPOSE:

TO PROVIDE 120/240V SINGLE PHASE SERVICE TO
(110) 225 AMP PANELS
FOR NEW DETACHED SINGLE FAMILY HOME
SUBDIVISION

EXHIBIT 'A'

NVEnergy INFORMATION:

COORDINATOR: SANTIAGO, CHERI

PHONE: (702)622-4365 D.F. LOWELL, KEN

DESIGNER: MIDROWSKY, ANDREW

DCA: 285-8182, 219-5761

INSPECTOR: 702-402-3008 OR UGI@NVEENERGY.COM

STAND BY: (702) 402-4450, 4150, 4114, 4117, 4118

DISTRICT: LAS VEGAS NORTH DISTRICT

JPA INFORMATION:

JPA ADMIN PHONE: N/A JPA#: N/A

CUSTOMER INFORMATION:

APPLICANT: D.R. HORTON, INC.

ENGINEER: ADVANTAGE CIVIL DESIGN GROUP, LLP

CONTACT: RICHARDSON VON-OY, DAVE ** 702-379-7577

APPROVAL DATE: 1/23/2019

GOVERNMENT INFORMATION:

AGENCY: CLV

APPROVAL DATE: ----

FOR EACH SERVICE POINT (POINT OF DELIVERY), ENERGY FOR EACH TENANT SPACE WILL BE MEASURED THROUGH ONE WATTHOUR METER. ENERGY FOR ALL NON-TENANT SPACE WILL BE MEASURED THROUGH ONE WATTHOUR METER. CONTACT NVE METER OPERATIONS FOR MULTIPLE RATE CLASS INSTALLATIONS.

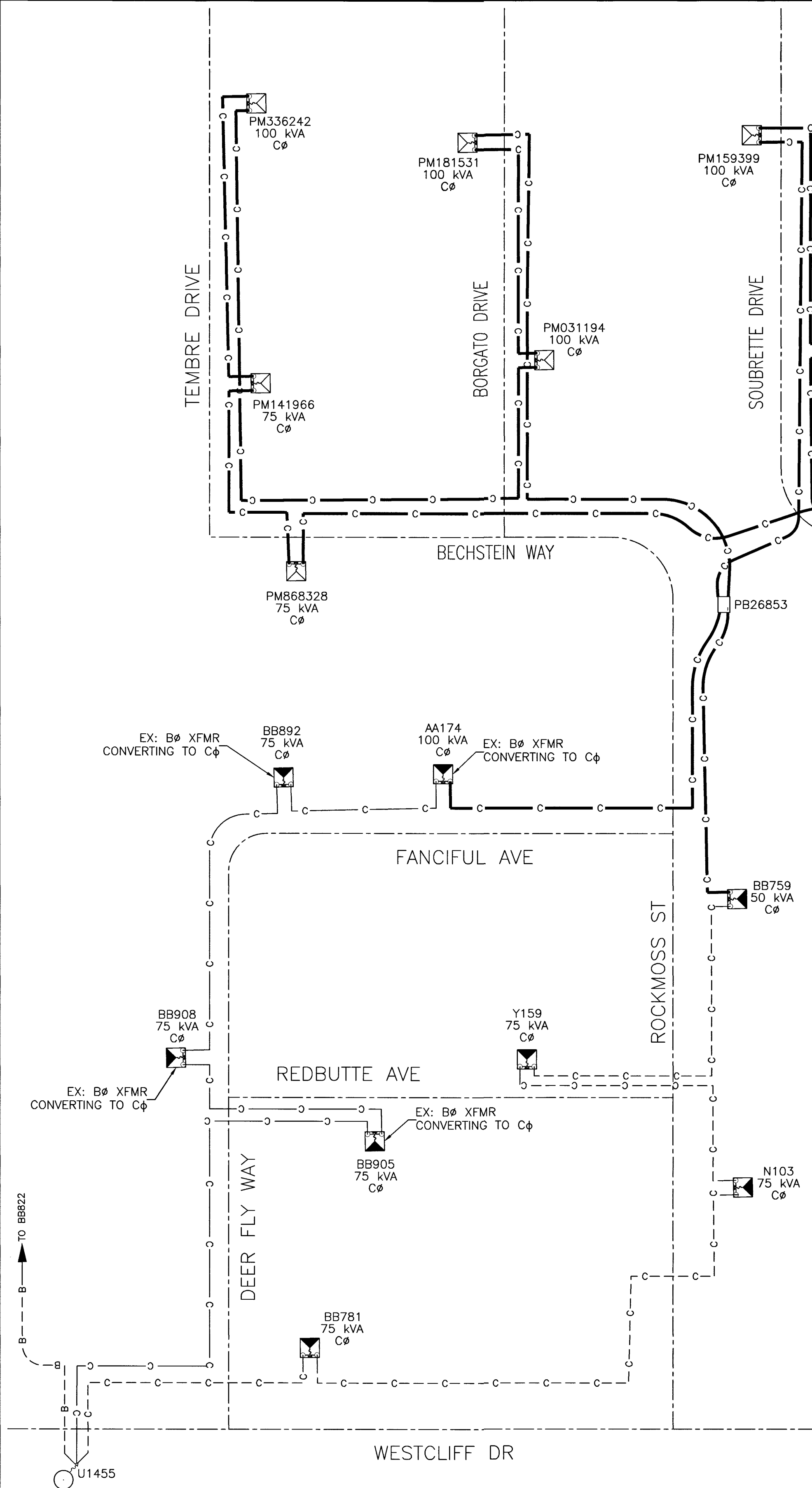


BLM 33 - SUBDIVISION

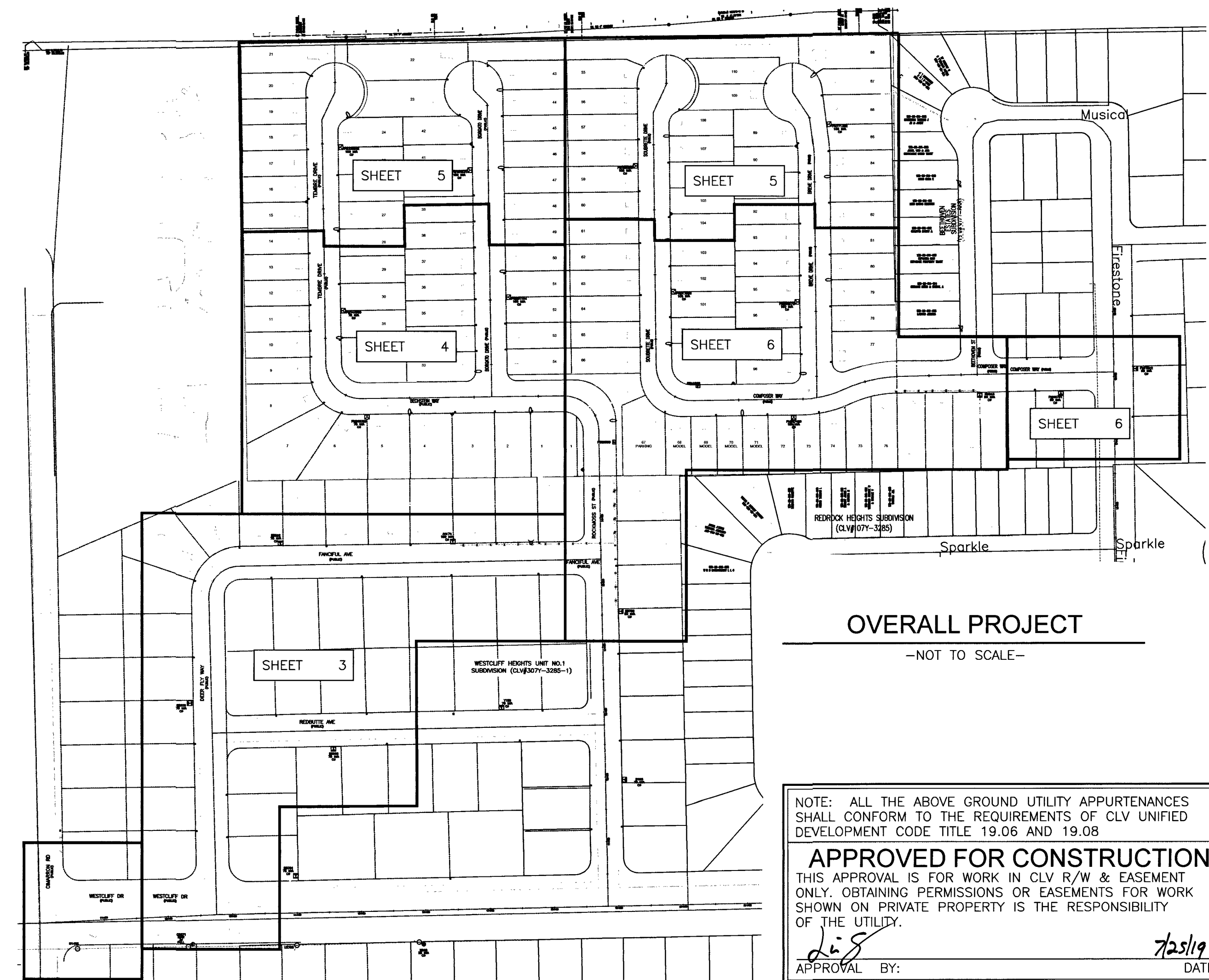
CIMARRON ROAD / WESTCLIFF
DRIVE 37

PROJ #3003118199 SCALE: 1"=30'

SHEET # 1 OF 7 DATE:12/18/2018

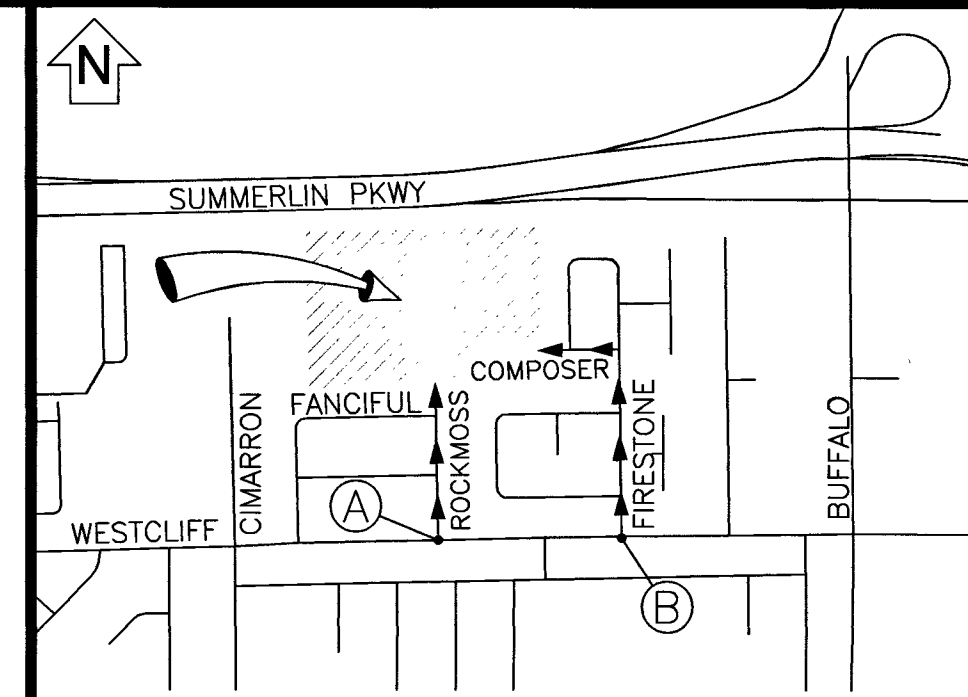


SINGLE LINE DIAGRAM
-NVE USE ONLY-



LOOP BETWEEN XFMR'S AA174 & PMTT812					LOOP	
SOURCE	PH.	EX. KVA	ADDED KVA	TOTAL KVA	FC OR RISER	FC OR RISER
U1455	A	0	0	0	U579Q1	
	B	325	-325	0		
VGS1212	C	225	825	1050	VGS1212	
LOOP BETWEEN XFMR'S BB759 & NN843					LOOP	
SOURCE	PH.	EX. KVA	ADDED KVA	TOTAL KVA	FC OR RISER	FC OR RISER
U1455	A	0	0	0	U580Q1	
	B	0	0	0		
VGS1212	C	650	450	1100	VGS1212	

N
T,R,S: 20-60-28
APN: 138-28-801-002
138-28-801-003



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AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
CALL BEFORE YOU DO OVERHEAD

Call before you Dig
Avoid cutting underground utility lines. It's costly.
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OR
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AND CLARK COUNTY TRAFFIC OPERATIONS
1-702-455-6000

REVISIONS			
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STANDARD DCA

PROJECT PURPOSE:
TO PROVIDE 120/240V SINGLE PHASE SERVICE TO (110) 225 AMP PANELS FOR NEW DETACHED SINGLE FAMILY HOME SUBDIVISION

EXHIBIT 'A'

NVEnergy INFORMATION:
COORDINATOR: SANTIAGO, CHERI
PHONE: (702)622-4365 D.F. LOWELL, KEN
DESIGNER: MIDROWSKY, ANDREW
DCA: 285-8182, 219-5761
INSPECTOR: 702-402-3008 OR UG@NVEENERGY.COM
STAND BY: (702) 402-4450, 4150, 4114, 4117, 4118
DISTRICT: LAS VEGAS NORTH DISTRICT

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JPA ADMIN PHONE: N/A JPA#: N/A
CUSTOMER INFORMATION:
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NVEnergy.

BLM 33 - SUBDIVISION

CIMARRON ROAD / WESTCLIFF DRIVE 38

PROJ #3003118199 SCALE: 1"=30'

SHEET # 2 OF 7 DATE:12/18/2018

NOTE: ALL THE ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF CLV UNIFIED DEVELOPMENT CODE TITLE 19.06 AND 19.08

APPROVED FOR CONSTRUCTION

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APPROVAL BY: *[Signature]* DATE: 7/25/19

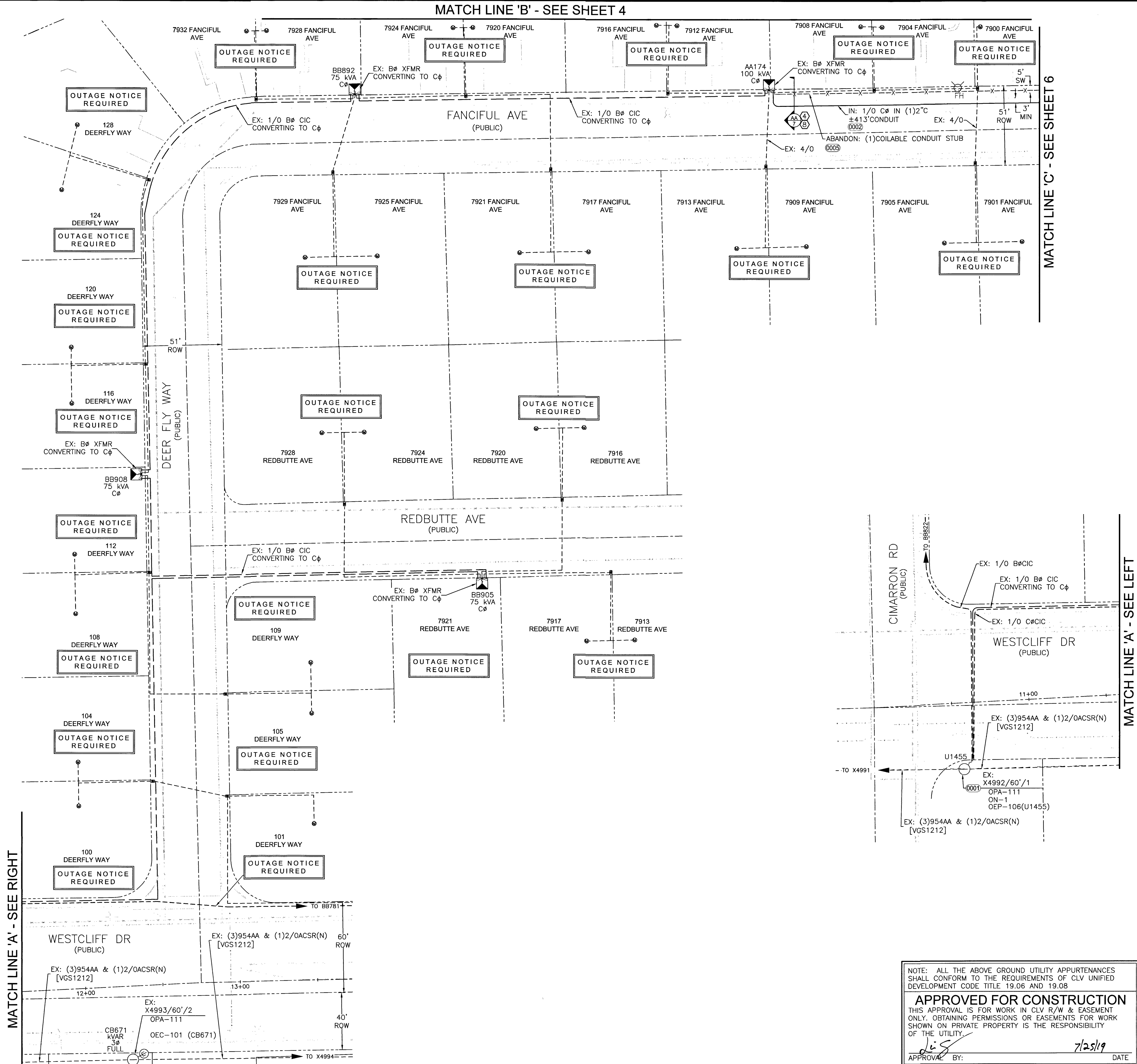
CITY OF LAS VEGAS
PERMIT REQUIRED*

CONTACT CLV LAND DEVELOPMENT (229-6371)
CLV CONSTRUCTION SERVICES MUST BE NOTIFIED 24 HOURS PRIOR TO COMMENCING CONSTRUCTION (229-6337)

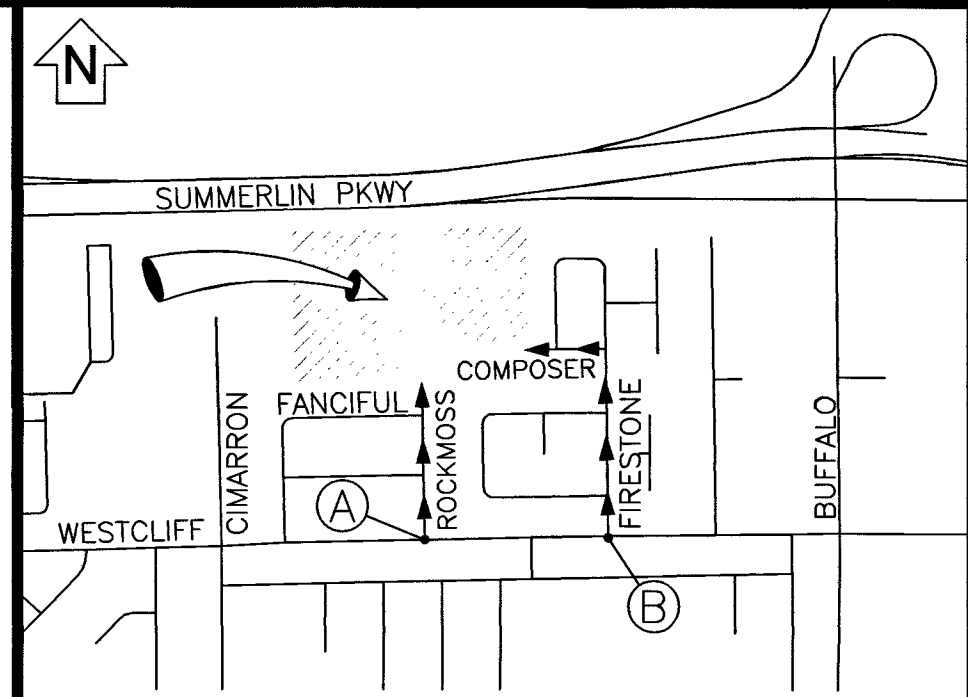
10745099
HANSEN 418-02380

DATE: 7/25/19

*NVE INSPECTOR MUST BE NOTIFIED BY FAX 48 HOURS PRIOR TO COMMENCING CONSTRUCTION & WILL VERIFY CITY PERMIT FOR WORK DONE IN STREETS OR SIDEWALK.
FAX PERMIT TO:
LAS VEGAS NORTH (RYAN CENTER): 402-4354
LAS VEGAS SOUTH (BELTWAY CENTER): 402-6864



N
T,R,S: 20-60-28
APN: 138-28-801-002
138-28-801-003



VICINITY MAP
(NOT TO SCALE)

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REVISIONS			
NO.	DESCRIPTION	DATE	REV BY

STANDARD DCA

PROJECT PURPOSE:
TO PROVIDE 120/240V SINGLE PHASE SERVICE TO (110) 225 AMP PANELS FOR NEW DETACHED SINGLE FAMILY HOME SUBDIVISION

EXHIBIT 'A'

NVEnergy INFORMATION:
COORDINATOR: SANTIAGO, CHERI
PHONE: (702)622-4365 D.F. LOWELL, KEN
DESIGNER: MIDROWSKY, ANDREW
DCA: 285-8182, 219-5761
INSPECTOR: 702-402-3008 OR UGI@NVEENERGY.COM
STAND BY: (702) 402-4450, 4150, 4114, 4117, 4118
DISTRICT: LAS VEGAS NORTH DISTRICT

JPA INFORMATION:
JPA ADMIN PHONE: N/A JPA#: N/A
CUSTOMER INFORMATION:
APPLICANT: D.R. HORTON, INC.
ENGINEER: ADVANTAGE CIVIL DESIGN GROUP, LLP
CONTACT: RICHARDSON VON-OY, DAVE ** 702-379-7577
APPROVAL DATE: 1/23/2019

GOVERNMENT INFORMATION:
AGENCY: CLV
APPROVAL DATE: _____

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NVEnergy.

BLM 33 - SUBDIVISION

CIMARRON ROAD / WESTCLIFF DRIVE 39

PROJ #3003118199 SCALE: 1"=30'

SHEET # 3 OF 7 DATE: 12/18/2018

NOTE: ALL THE ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF CLV UNIFIED DEVELOPMENT CODE TITLE 19.06 AND 19.08

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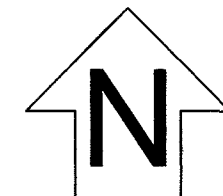
CITY OF LAS VEGAS
PERMIT REQUIRED*

CONTACT CLV LAND DEVELOPMENT (229-6371)
CLV CONSTRUCTION SERVICES MUST BE NOTIFIED 24 HOURS PRIOR TO COMMENCING CONSTRUCTION (229-6337)

HANSEN 10745099
418-02380

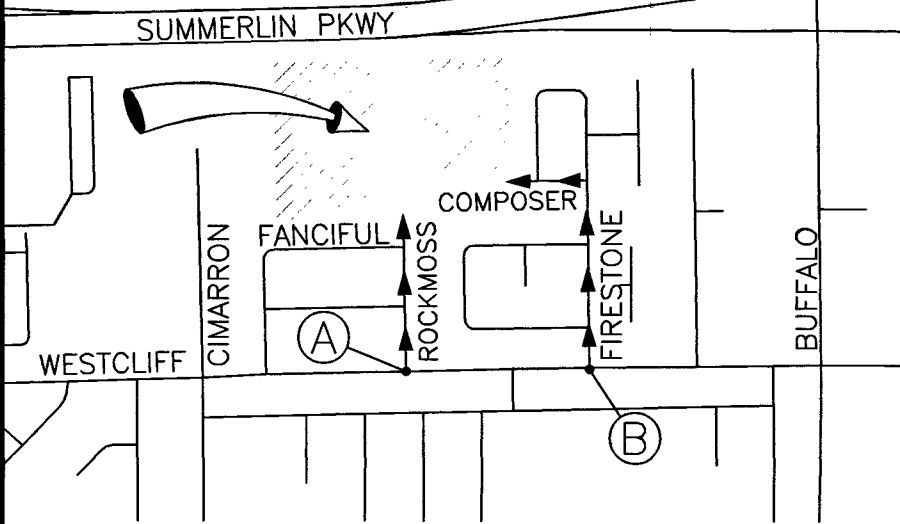
DATE 7/25/19

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T,R,S: 20-60-28

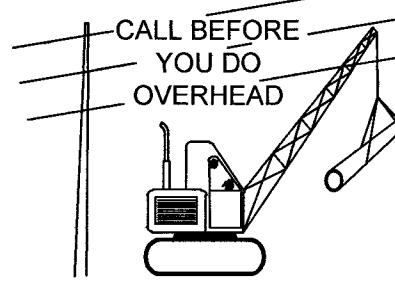
APN: 138-28-801-002
138-28-801-003



VICINITY MAP
(NOT TO SCALE)

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AND CLARK COUNTY TRAFFIC OPERATIONS
1-702-455-6000

REVISIONS

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STANDARD DCA

PROJECT PURPOSE:

TO PROVIDE 120/240V SINGLE PHASE SERVICE TO
(110) 225 AMP PANELS
FOR NEW DETACHED SINGLE FAMILY HOME
SUBDIVISION

EXHIBIT 'A'

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APPROVAL DATE: 1/23/2019

GOVERNMENT INFORMATION:

AGENCY: CLV
APPROVAL DATE: _____

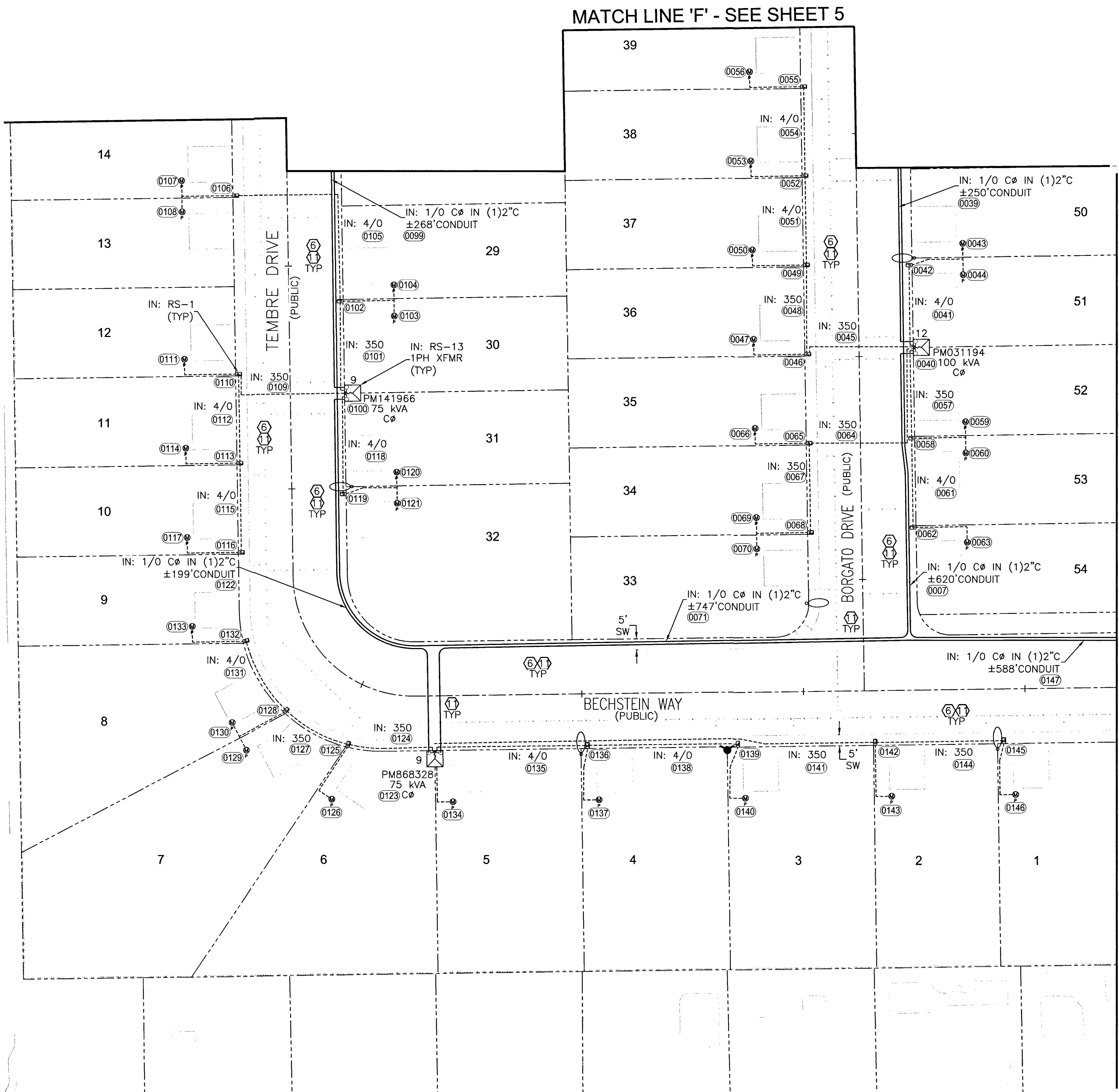
FOR EACH SERVICE POINT (POINT OF DELIVERY), ENERGY FOR EACH TENANT SPACE WILL BE MEASURED THROUGH ONE WATTHOUR METER. ENERGY FOR ALL NON-TENANT SPACE WILL BE MEASURED THROUGH ONE WATTHOUR METER. CONTACT NVE METER OPERATIONS FOR MULTIPLE RATE CLASS INSTALLATIONS.



BLM 33 - SUBDIVISION

CIMARRON ROAD / WESTCLIFF
DRIVE 4/0

PROJ #3003118199 SCALE: 1"=30'
SHEET # 4 OF 7 DATE:12/18/2018



UNLESS OTHERWISE NOTED:

ALL SERVICE CONDUCTOR: 2/0 AL TRI.
ALL TRANSFORMERS: 7200V-120/240V-1Ø PM
LARGEST A/C UNIT SIZE: 4 TONS
NUMBER OF UNITS: 110
MAIN SIZE: 225 AMPS
ESTIMATED KVA PER UNIT: 7.8 KVA
SQ. FT. OF LARGEST UNIT: 2435 FT²

NOTE: ALL THE ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF CLV UNIFIED DEVELOPMENT CODE TITLE 19.06 AND 19.08

APPROVED FOR CONSTRUCTION

THIS APPROVAL IS FOR WORK IN CLV R/W & EASEMENT ONLY. OBTAINING PERMISSIONS OR EASEMENTS FOR WORK SHOWN ON PRIVATE PROPERTY IS THE RESPONSIBILITY OF THE UTILITY.

APPROVAL BY: *[Signature]* DATE: 7/25/19

CITY OF LAS VEGAS
PERMIT REQUIRED*

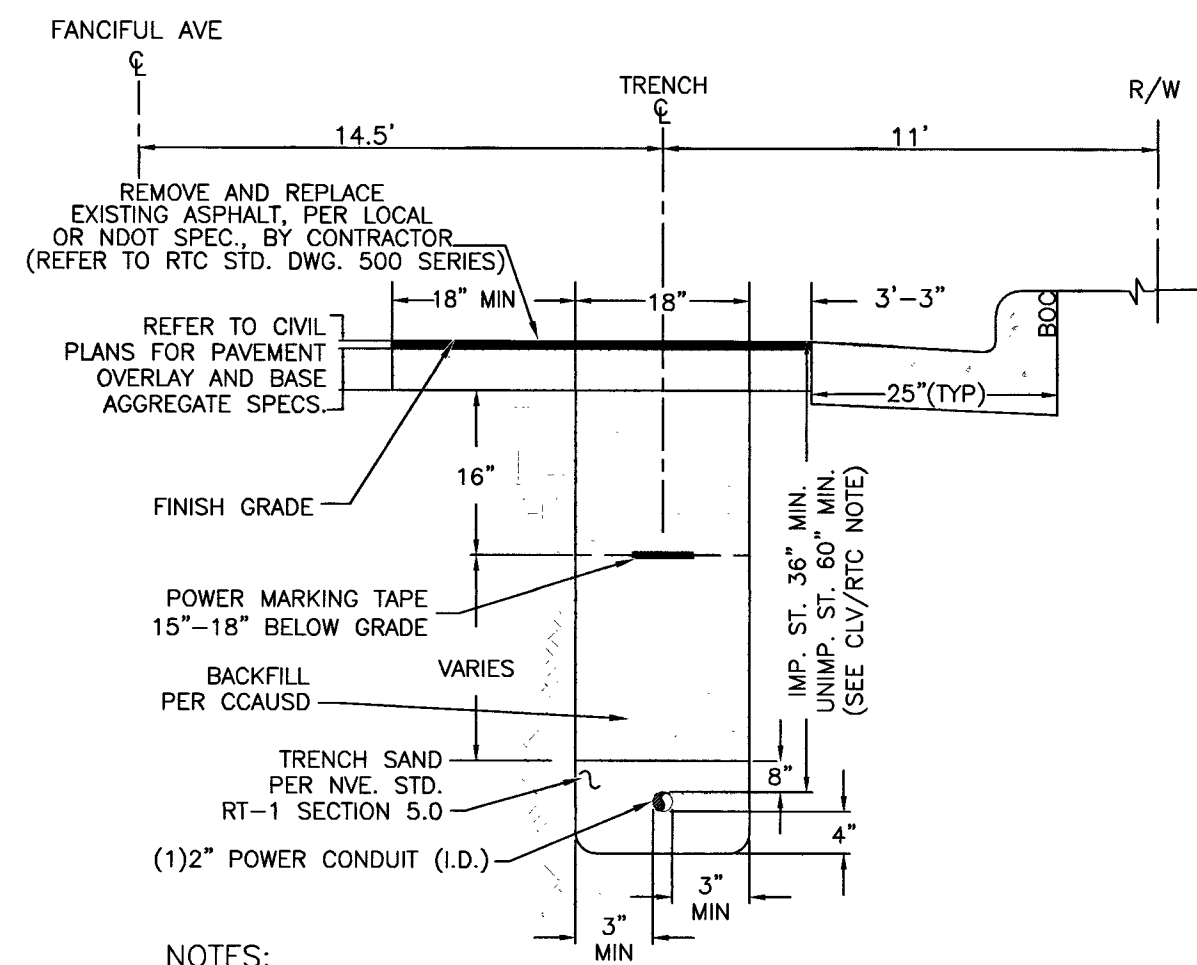
CONTACT CLV LAND DEVELOPMENT (229-6371)
CLV CONSTRUCTION SERVICES MUST BE NOTIFIED 24 HOURS PRIOR TO COMMENCING CONSTRUCTION (229-6337)

HANSEN 107Y5099
618-02380

DATE 7/25/19

*NVE INSPECTOR MUST BE NOTIFIED BY FAX 48 HOURS PRIOR TO COMMENCING CONSTRUCTION & WILL VERIFY CITY PERMIT FOR WORK DONE IN STREETS OR SIDEWALK.

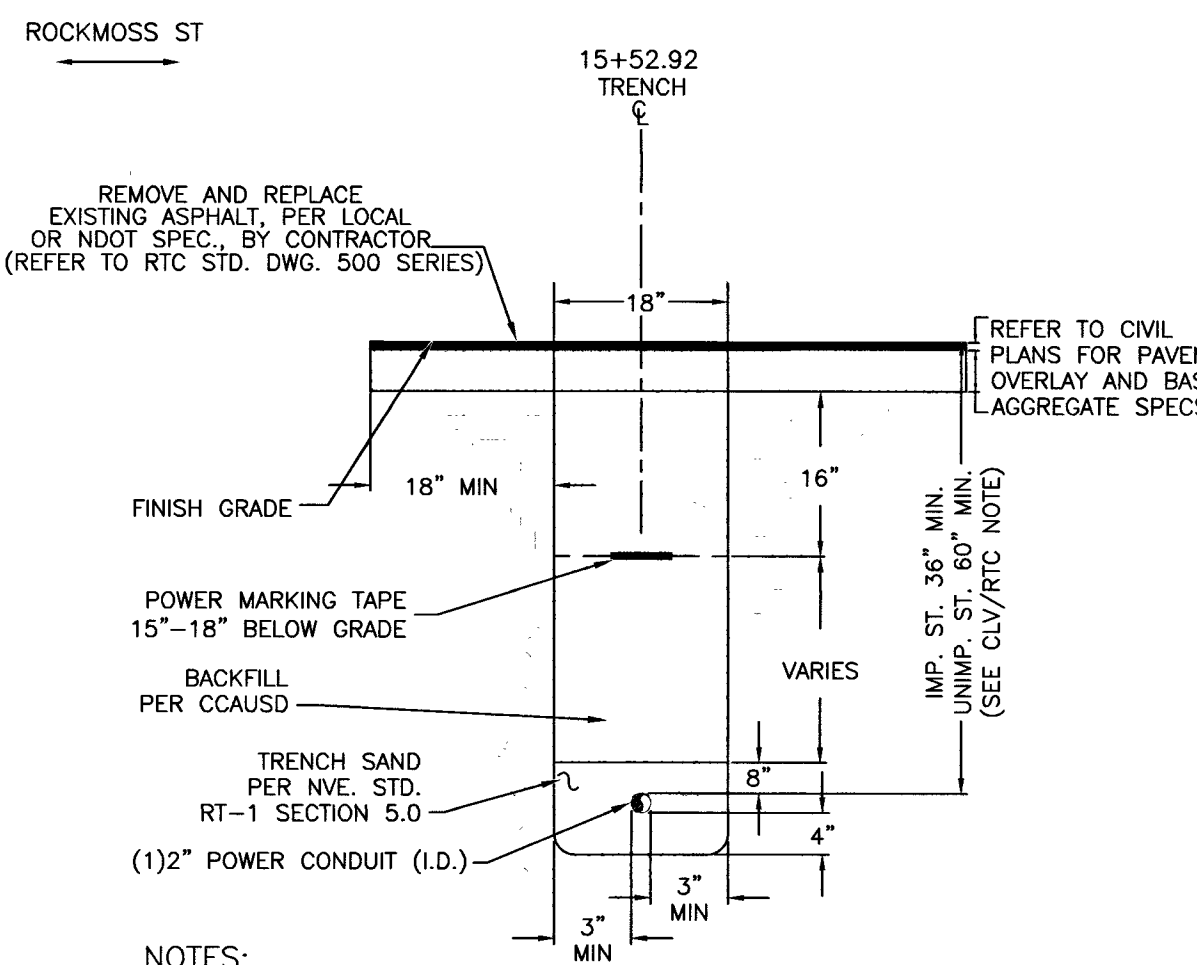
FAX PERMIT TO:
LAS VEGAS NORTH (RYAN CENTER): 402-4354
LAS VEGAS SOUTH (BELTWAY CENTER): 402-6864



NOTES:

CLV REQUIREMENTS (APPLICABLE WITHIN CITY OF LAS VEGAS LIMITS ONLY):
IMPROVED AREA (IMP. ST.): (LOCATION OF TRENCH)
AREA WILL BE CONSIDERED IMPROVED IF IT MEETS ONE OR MORE OF THE FOLLOWING CRITERIA(S):
- EXISTING PERMANENT PAVEMENT WITH CURB & GUTTER AND/OR ADJACENT PERMANENT SIDEWALK.
- WITHIN AN IMPROVED TRAIL AREA.
- LIMITS OF CONSTRUCTION INSTALLED CONCURRENT WITH A PRIVATE OR PUBLIC PROJECT.
UNIMPROVED AREA (UNIMP. ST.): (LOCATION OF TRENCH)
ANY OTHER SCENARIO THAT FAILS TO MEET THE IMPROVED AREA CRITERIA(S) WILL BE CONSIDERED AN UNIMPROVED AREA.
NVE REQUIREMENTS:
FOR ALL OTHER JURISDICTIONS REFER TO NVE STANDARDS.
BACKFILL REQUIREMENTS NVE. STD. RT-1.
TRENCH DEPTH REQUIREMENTS NVE. STD. RT-5.

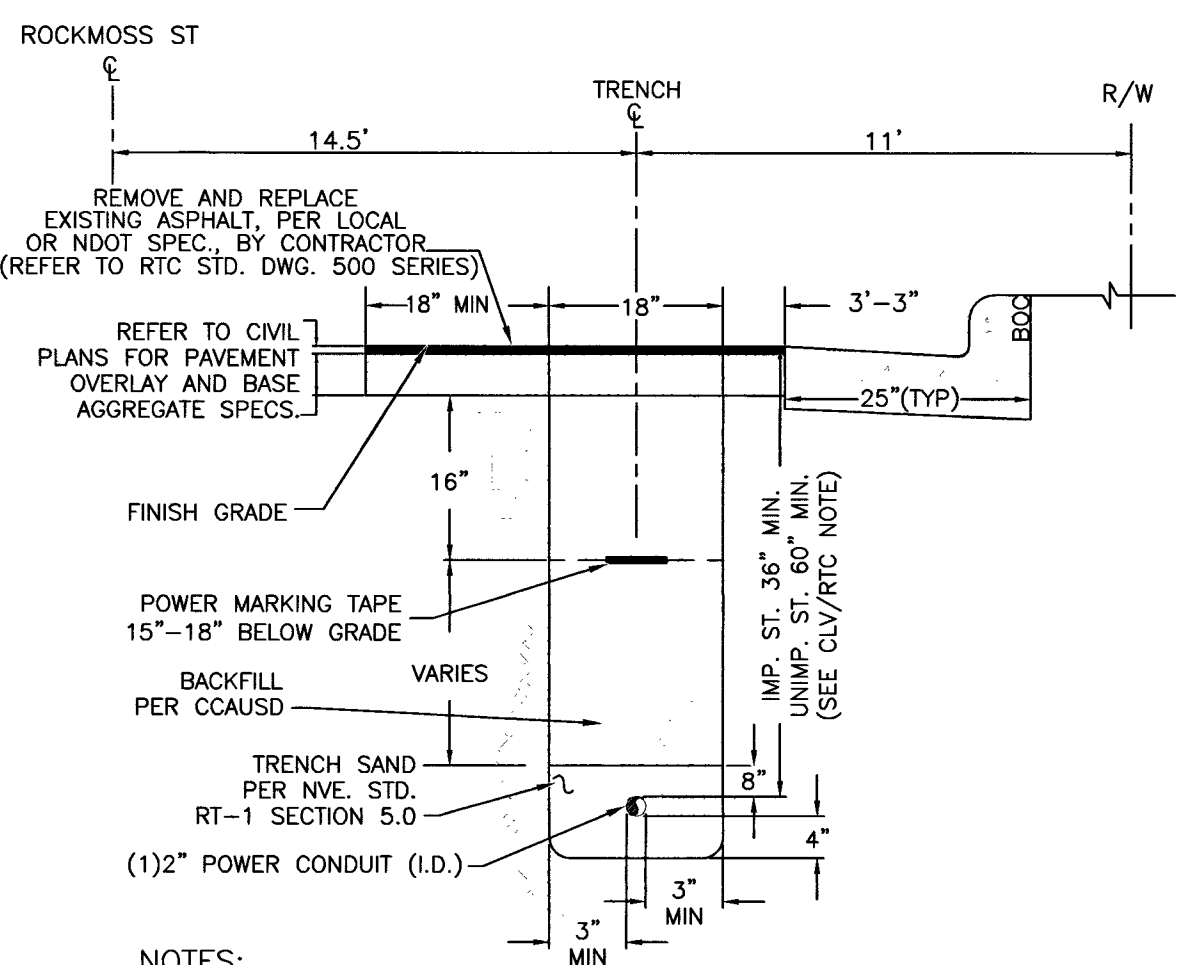
TRENCH DETAIL SECTION "AA"



NOTES:

REGIONAL TRANSPORTATION COMMISSION, CITY OF HENDERSON,
CITY OF NORTH LAS VEGAS AND UNINCORPORATED CLARK COUNTY
REQUIREMENTS (SECTION 503.1 & 503.2):
METHOD A/B FOR FLEXIBLE/RIGID PIPE TRENCH BACKFILL-PAVED AREAS
1. NO STONES OR LUMPS GREATER THAN 3" PERMITTED IN TRENCH 2' OR LESS IN WIDTH.
2. TRENCH WIDTH, BEDDING, SUBGRADE AND PIPE ZONE REQUIREMENTS FOR UTILITY INSTALLATIONS SHALL CONFORM TO THE RESPECTIVE ENTITY REQUIREMENTS.
3. CRUSHED ROCK MAY BE USED FOR PIPE BEDDING ONLY IF MATERIAL USE HAS BEEN SPECIFICALLY APPROVED BY THE GOVERNING AGENCY.
SEE STANDARD DRAWING NO. 505 FOR PIPE BEDDING METHODS.
4. LAS VEGAS VALLEY WATER DISTRICT REQUIRES PIPE BEDDING AND BACKFILL WITHIN THE PIPE ZONE TO BE OF THE SAME MATERIAL.
COH JURISDICTION:
FOR ALL AREAS EXCEPT NVENERGY PIPE ZONE, THE TRENCH, BACKFILL AND AC REPLACEMENT SHALL BE PER CCAUSD.
NVE REQUIREMENTS:
FOR ALL OTHER JURISDICTIONS REFER TO NVE STANDARDS.
BACKFILL REQUIREMENTS NVE. STD. RT-1.
TRENCH DEPTH REQUIREMENTS NVE. STD. RT-5.

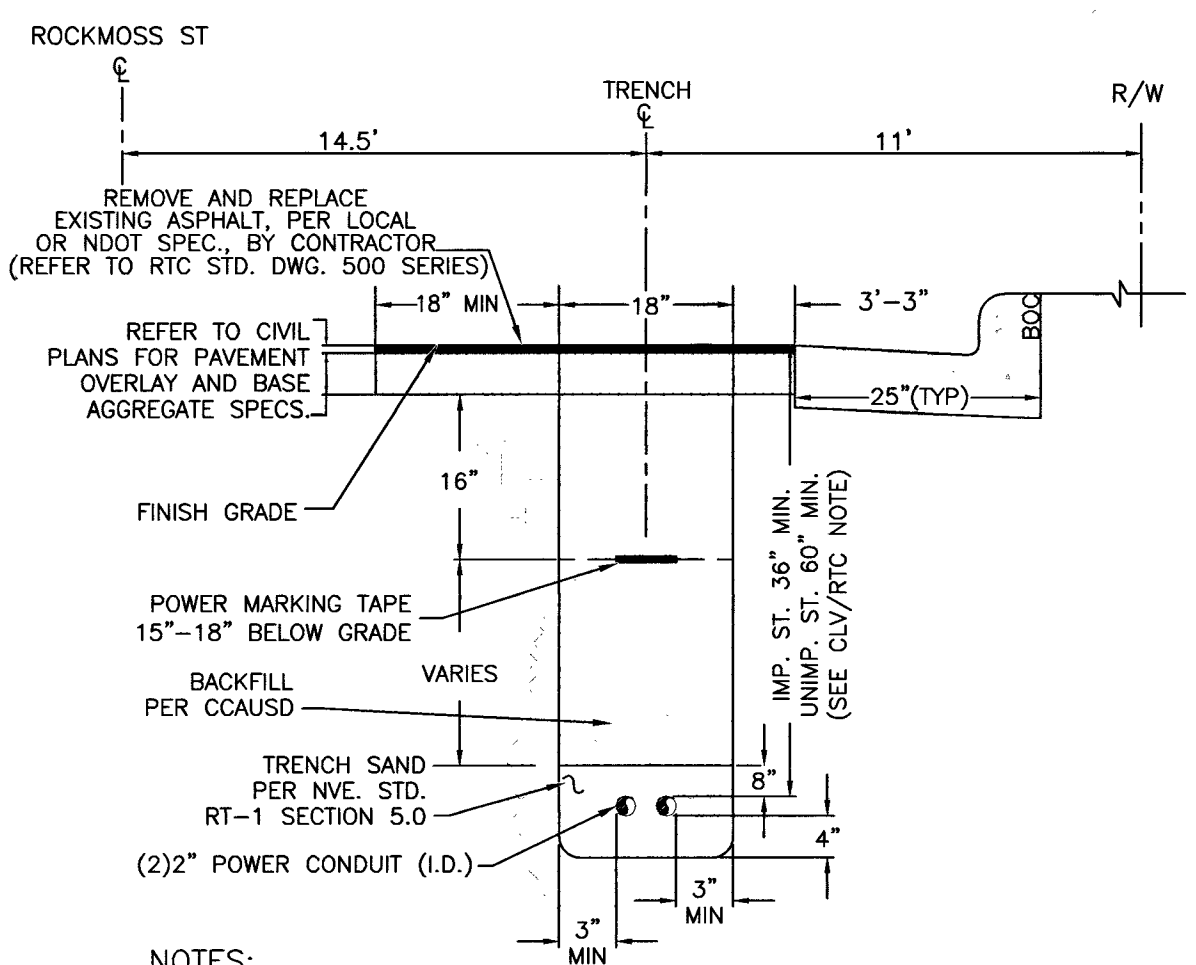
TRENCH DETAIL SECTION "BB"



NOTES:

CLV REQUIREMENTS (APPLICABLE WITHIN CITY OF LAS VEGAS LIMITS ONLY):
IMPROVED AREA (IMP. ST.): (LOCATION OF TRENCH)
AREA WILL BE CONSIDERED IMPROVED IF IT MEETS ONE OR MORE OF THE FOLLOWING CRITERIA(S):
- EXISTING PERMANENT PAVEMENT WITH CURB & GUTTER AND/OR ADJACENT PERMANENT SIDEWALK.
- WITHIN AN IMPROVED TRAIL AREA.
- LIMITS OF CONSTRUCTION INSTALLED CONCURRENT WITH A PRIVATE OR PUBLIC PROJECT.
UNIMPROVED AREA (UNIMP. ST.): (LOCATION OF TRENCH)
ANY OTHER SCENARIO THAT FAILS TO MEET THE IMPROVED AREA CRITERIA(S) WILL BE CONSIDERED AN UNIMPROVED AREA.
NVE REQUIREMENTS:
FOR ALL OTHER JURISDICTIONS REFER TO NVE STANDARDS.
BACKFILL REQUIREMENTS NVE. STD. RT-1.
TRENCH DEPTH REQUIREMENTS NVE. STD. RT-5.

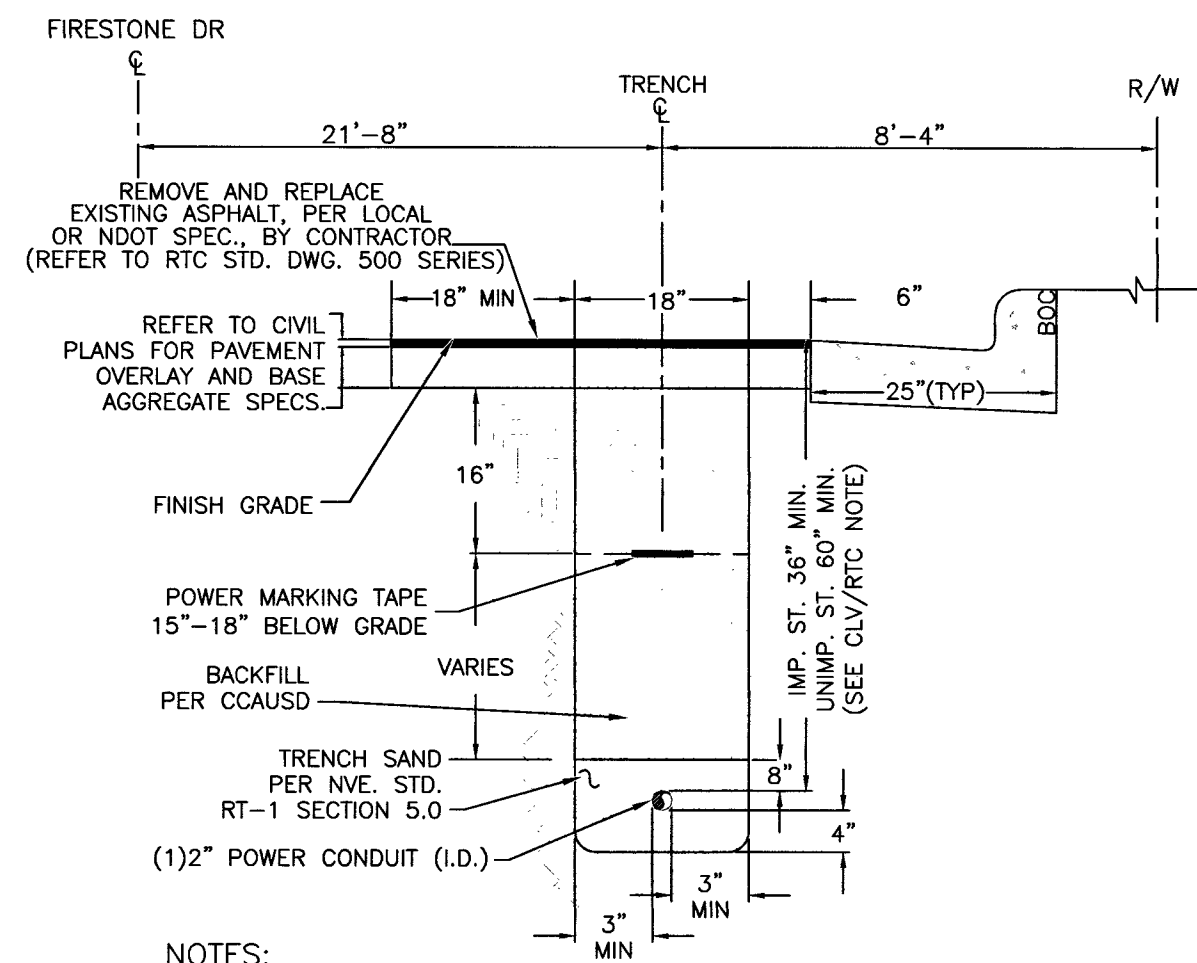
TRENCH DETAIL SECTION "CC"



NOTES:

CLV REQUIREMENTS (APPLICABLE WITHIN CITY OF LAS VEGAS LIMITS ONLY):
IMPROVED AREA (IMP. ST.): (LOCATION OF TRENCH)
AREA WILL BE CONSIDERED IMPROVED IF IT MEETS ONE OR MORE OF THE FOLLOWING CRITERIA(S):
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- WITHIN AN IMPROVED TRAIL AREA.
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UNIMPROVED AREA (UNIMP. ST.): (LOCATION OF TRENCH)
ANY OTHER SCENARIO THAT FAILS TO MEET THE IMPROVED AREA CRITERIA(S) WILL BE CONSIDERED AN UNIMPROVED AREA.
NVE REQUIREMENTS:
FOR ALL OTHER JURISDICTIONS REFER TO NVE STANDARDS.
BACKFILL REQUIREMENTS NVE. STD. RT-1.
TRENCH DEPTH REQUIREMENTS NVE. STD. RT-5.

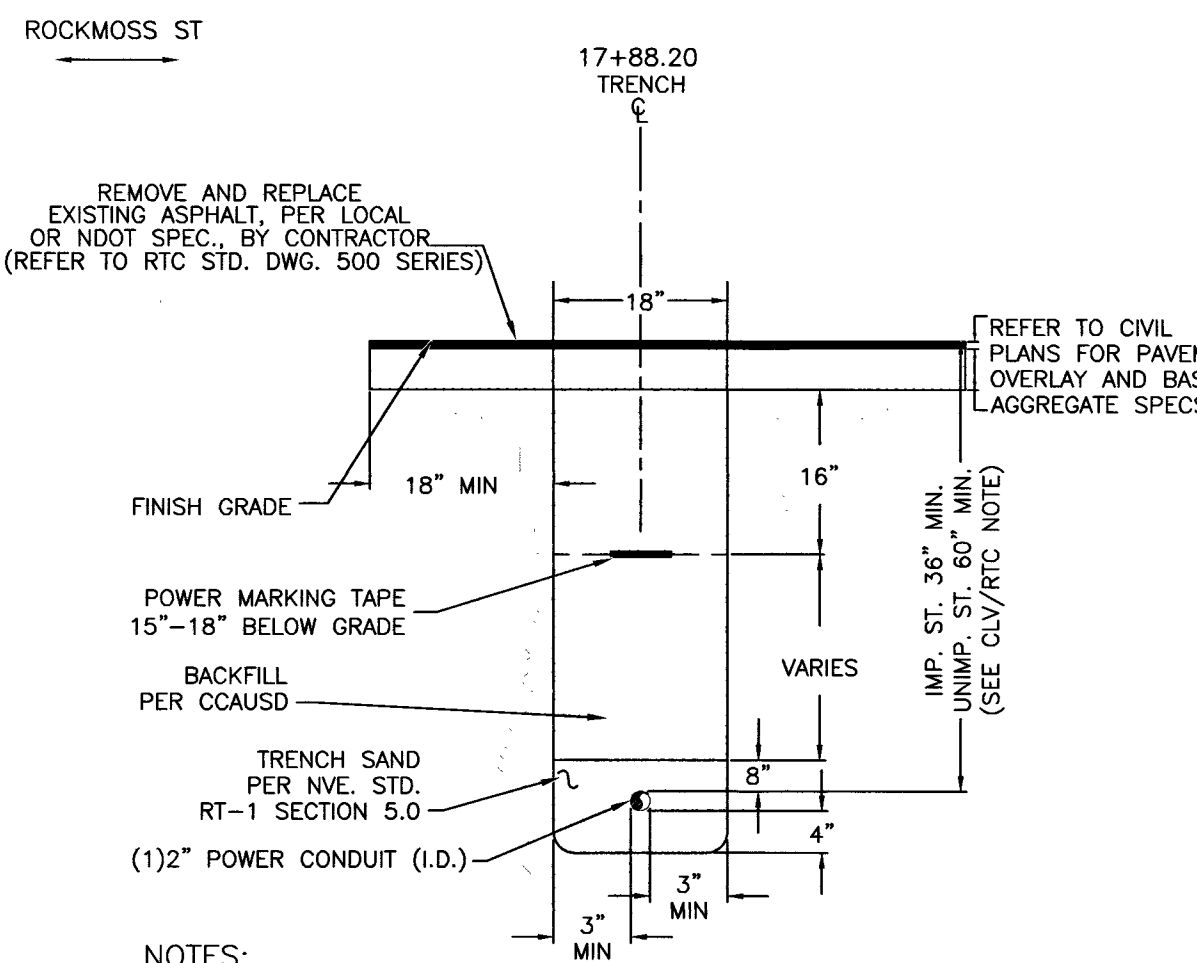
TRENCH DETAIL SECTION "DD"



NOTES:

CLV REQUIREMENTS (APPLICABLE WITHIN CITY OF LAS VEGAS LIMITS ONLY):
IMPROVED AREA (IMP. ST.): (LOCATION OF TRENCH)
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BACKFILL REQUIREMENTS NVE. STD. RT-1.
TRENCH DEPTH REQUIREMENTS NVE. STD. RT-5.

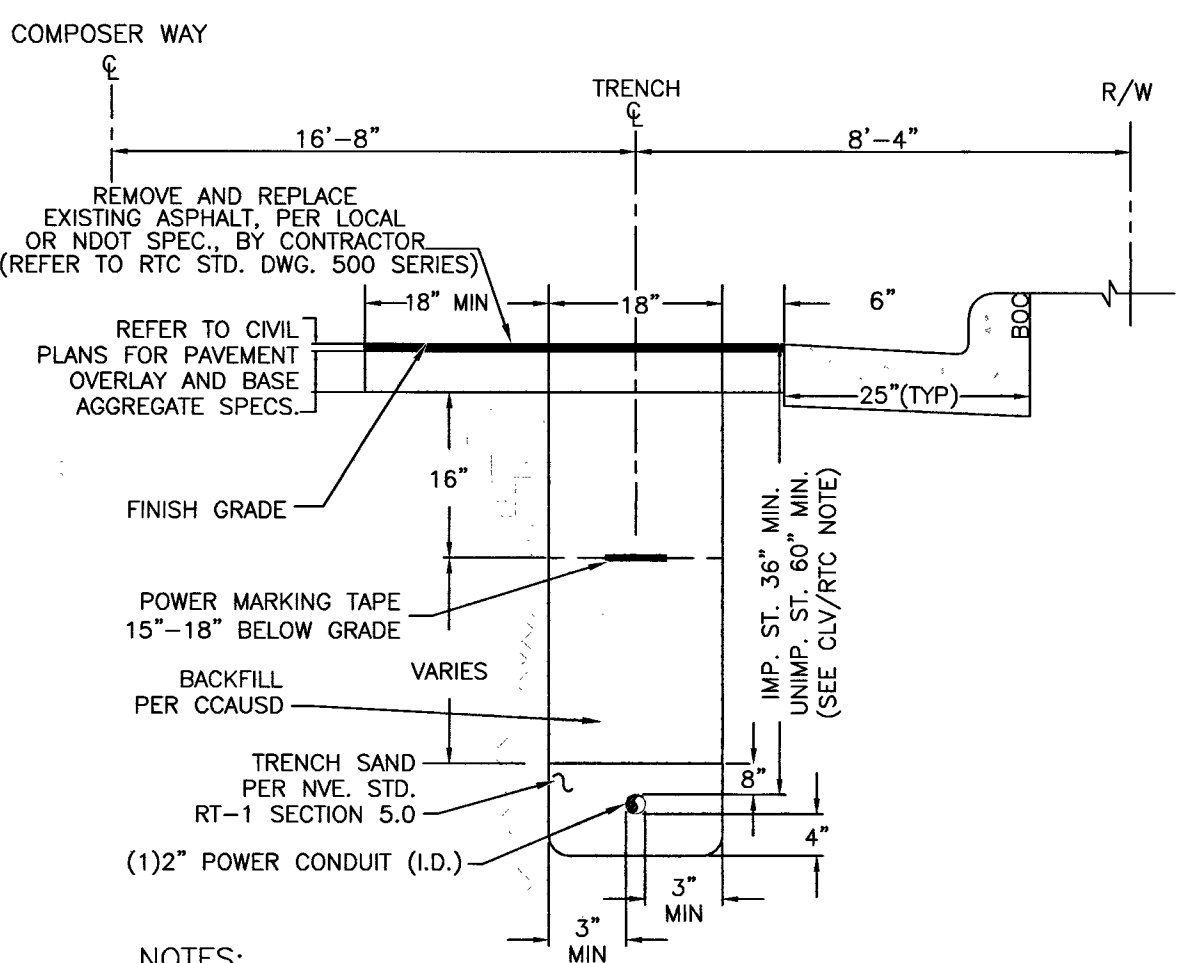
TRENCH DETAIL SECTION "EE"



NOTES:

REGIONAL TRANSPORTATION COMMISSION, CITY OF HENDERSON,
CITY OF NORTH LAS VEGAS AND UNINCORPORATED CLARK COUNTY
REQUIREMENTS (SECTION 503.1 & 503.2):
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BACKFILL REQUIREMENTS NVE. STD. RT-1.
TRENCH DEPTH REQUIREMENTS NVE. STD. RT-5.

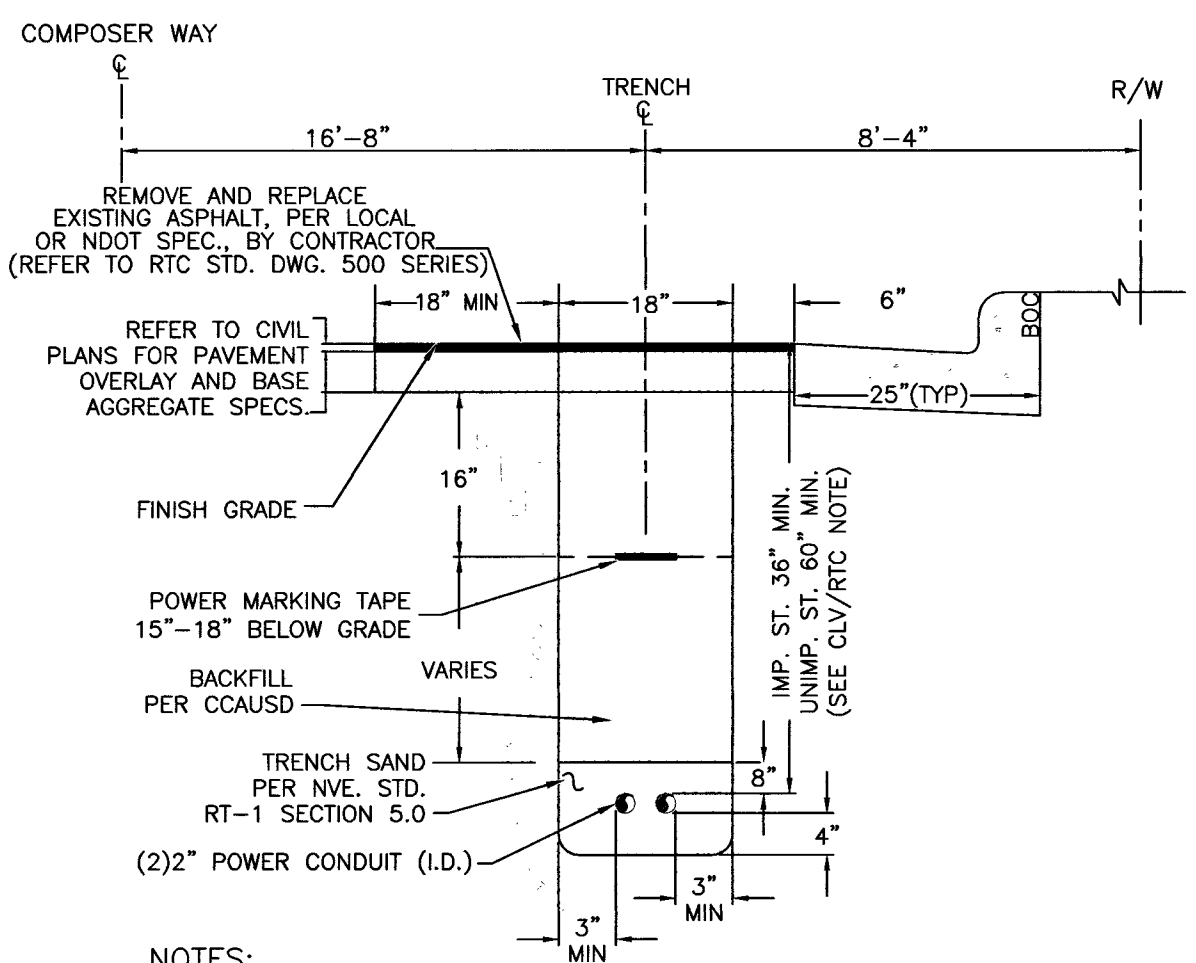
TRENCH DETAIL SECTION "FF"



NOTES:

CLV REQUIREMENTS (APPLICABLE WITHIN CITY OF LAS VEGAS LIMITS ONLY):
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BACKFILL REQUIREMENTS NVE. STD. RT-1.
TRENCH DEPTH REQUIREMENTS NVE. STD. RT-5.

TRENCH DETAIL SECTION "GG"



NOTES:

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- WITHIN AN IMPROVED TRAIL AREA.
- LIMITS OF CONSTRUCTION INSTALLED CONCURRENT WITH A PRIVATE OR PUBLIC PROJECT.
UNIMPROVED AREA (UNIMP. ST.): (LOCATION OF TRENCH)
ANY OTHER SCENARIO THAT FAILS TO MEET THE IMPROVED AREA CRITERIA(S) WILL BE CONSIDERED AN UNIMPROVED AREA.
NVE REQUIREMENTS:
FOR ALL OTHER JURISDICTIONS REFER TO NVE STANDARDS.
BACKFILL REQUIREMENTS NVE. STD. RT-1.
TRENCH DEPTH REQUIREMENTS NVE. STD. RT-5.

TRENCH DETAIL SECTION "HH"

#	STREET INTERSECTION	STA.	HEADED
(A)	WESTCLIFF DR	19+83.26	EAST
(B)	ROCKMOSS ST	10+00	NORTH
(C)	WESTCLIFF DR	26+79.33	EAST
(D)	FIRESTONE DR	10+00	NORTH

CENTERLINE STATION TABLE

NOTE: ALL THE ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF CLV UNIFIED DEVELOPMENT CODE TITLE 19.06 AND 19.08

APPROVED FOR CONSTRUCTION

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APPROVAL BY: 7/25/19 DATE: 7/25/19

CITY OF LAS VEGAS
PERMIT REQUIRED*

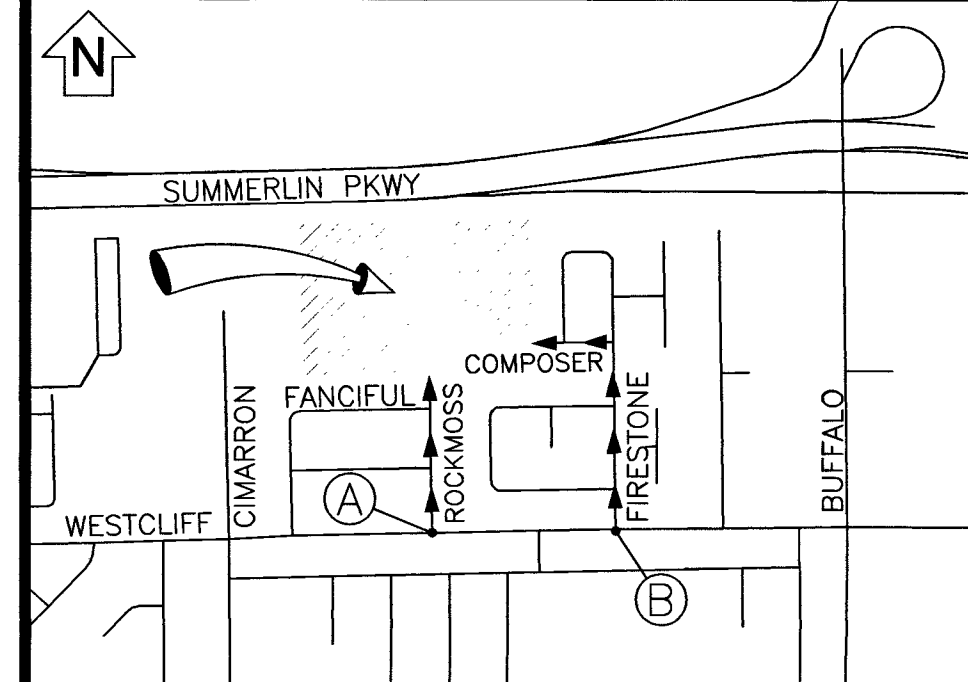
CONTACT CLV LAND DEVELOPMENT (229-6371)
CLV CONSTRUCTION SERVICES MUST BE NOTIFIED 24 HOURS PRIOR TO COMMENCING CONSTRUCTION (229-6371)

HANSEN 10745099
418-02380

DATE 7/25/19

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LAS VEGAS NORTH (RYAN CENTER): 402-4354
LAS VEGAS SOUTH (BELTWAY CENTER): 402-6864



VICINITY MAP (NOT TO SCALE)

EVERY EFFORT HAS BEEN MADE TO IDENTIFY ALL NVE FACILITIES. THE CUSTOMER SHALL CONFIRM THE EXISTENCE AND LOCATION OF THESE FACILITIES.

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.

CALL BEFORE YOU DO OVERHEAD

CALL 1-702-402-2929

Call before you Dig
Avoid cutting underground utility lines. It's costly.

CALL 811

OR
1-800-227-2600

AND CLARK COUNTY TRAFFIC OPERATIONS
1-702-455-6000

REVISIONS

NO.	DESCRIPTION	DATE	REV BY
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

STANDARD DCA

PROJECT PURPOSE:

TO PROVIDE 120/240V SINGLE PHASE SERVICE TO
(110) 225 AMP PANELS
FOR NEW DETACHED SINGLE FAMILY HOME
SUBDIVISION

EXHIBIT 'A'

NVEnergy INFORMATION:

COORDINATOR: SANTIAGO, CHERI

PHONE: (702)622-4365 D.F. LOWELL, KEN

DESIGNER: MIDROWSKY, ANDREW

DCA: 285-8182, 219-5761

INSPECTOR: 702-402-3008 OR UGI@NVEENERGY.COM

STAND BY: (702) 402-4450, 4150, 4114, 4117, 4118

DISTRICT: LAS VEGAS NORTH DISTRICT

JPA INFORMATION:

JPA ADMIN PHONE: N/A JPA#: N/A

CUSTOMER INFORMATION:

APPLICANT: D.R. HORTON, INC.

ENGINEER: ADVANTAGE CIVIL DESIGN GROUP, LLP

CONTACT: RICHARDSON VON-OY, DAVE ** 702-379-7577

APPROVAL DATE: 1/23/2019

GOVERNMENT INFORMATION:

AGENCY: CLV

APPROVAL DATE: ----

FOR EACH SERVICE POINT (POINT OF DELIVERY), ENERGY FOR EACH TENANT SPACE WILL BE MEASURED THROUGH ONE WATT/OUR METER. ENERGY FOR ALL NON-TENANT SPACE WILL BE MEASURED THROUGH ONE WATT/OUR METER. CONTACT NVE METER OPERATIONS FOR MULTIPLE RATE CLASS INSTALLATIONS.



BLM 33 - SUBDIVISION

CIMARRON ROAD / WESTCLIFF
DRIVE 43

PROJ #3003118199 SCALE: 1"=30'
SHEET # 7 OF 7 DATE: 12/18/2018