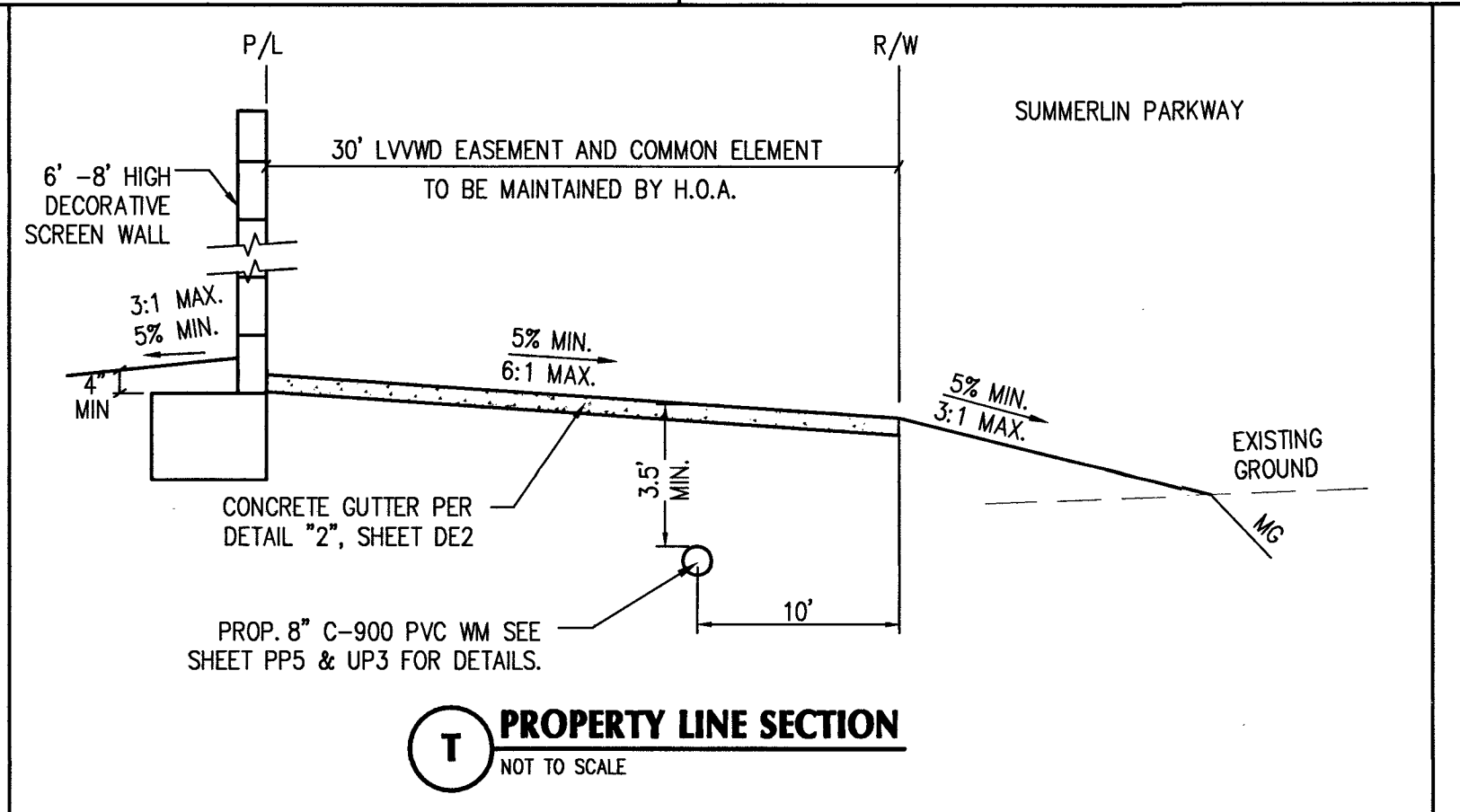
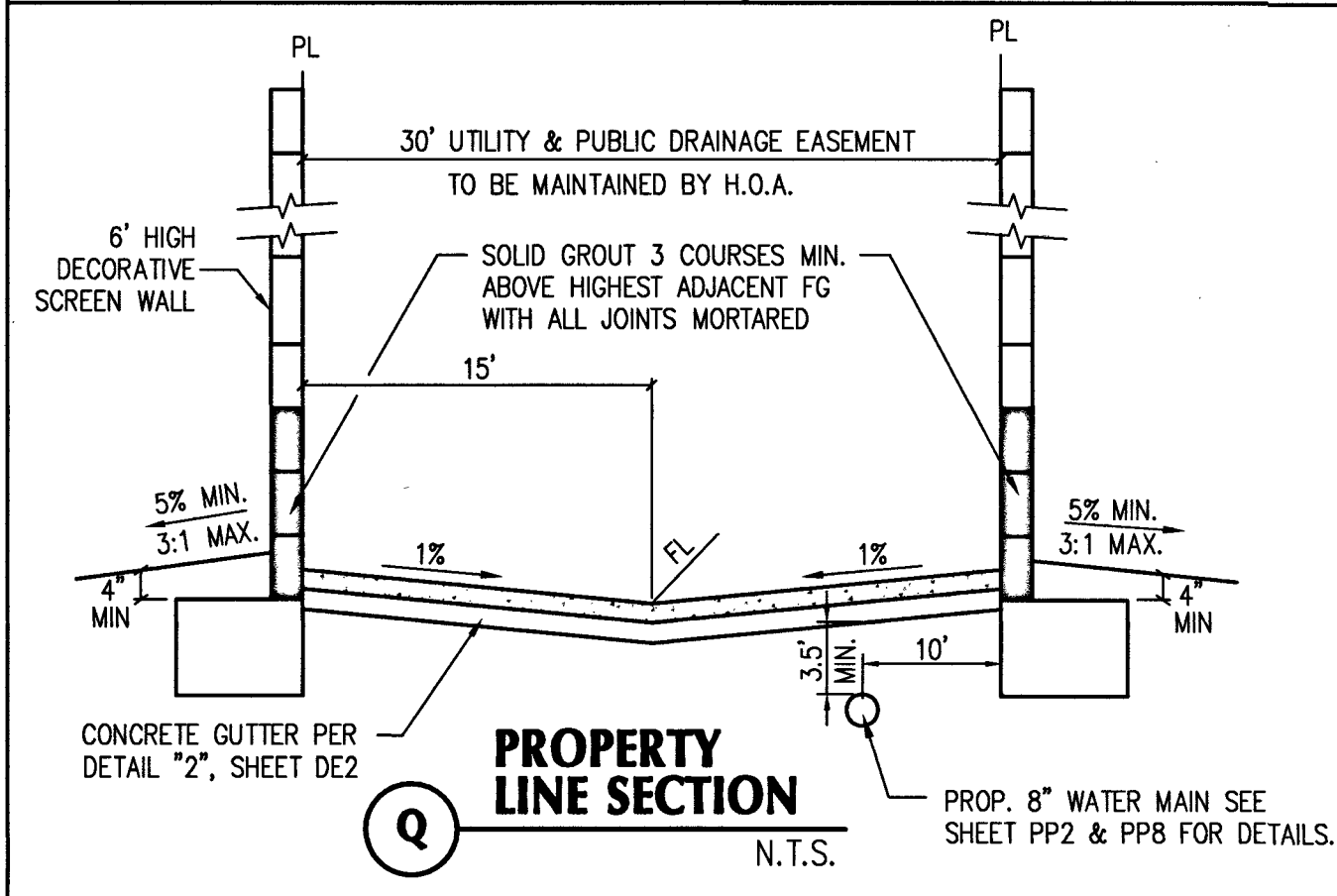
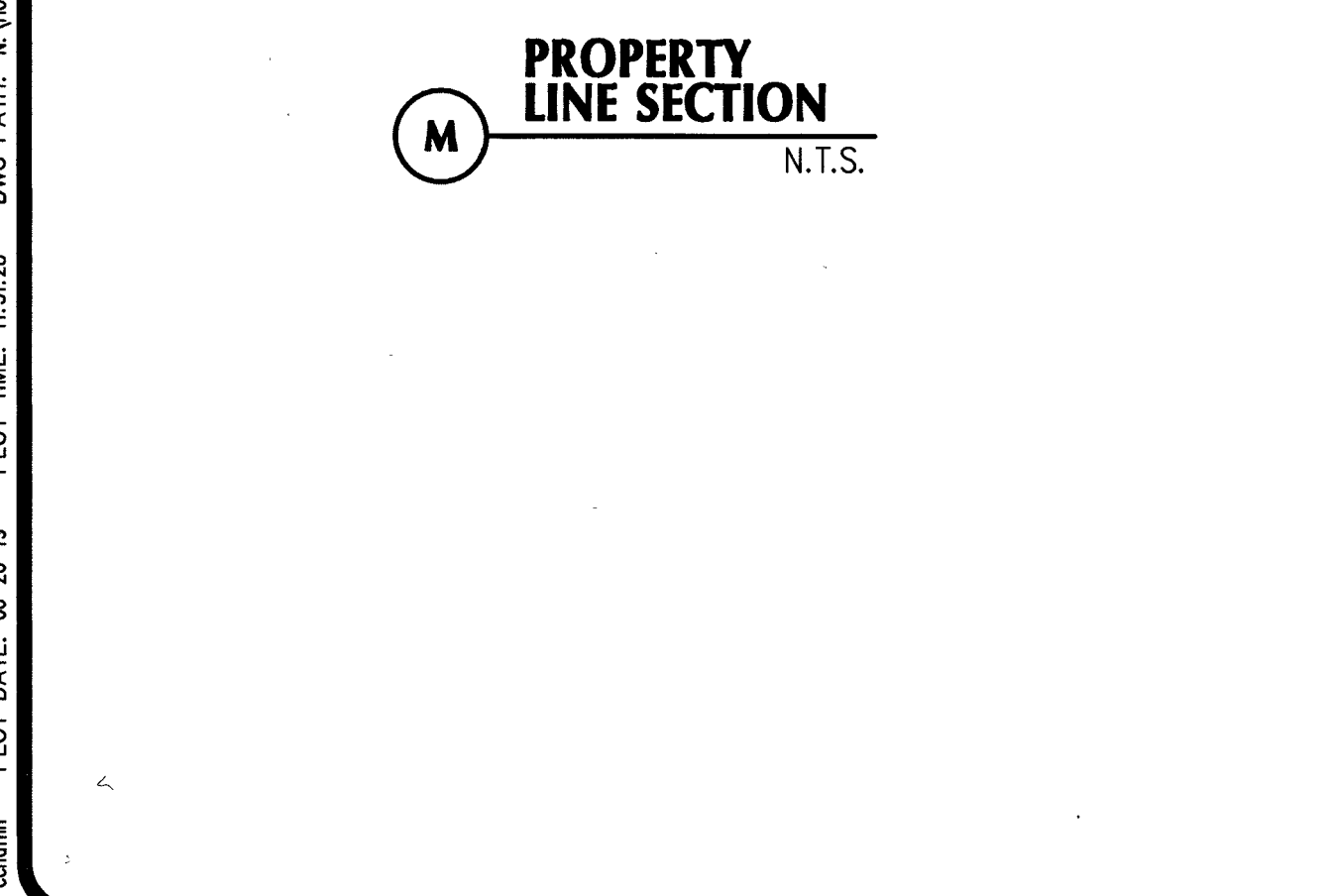
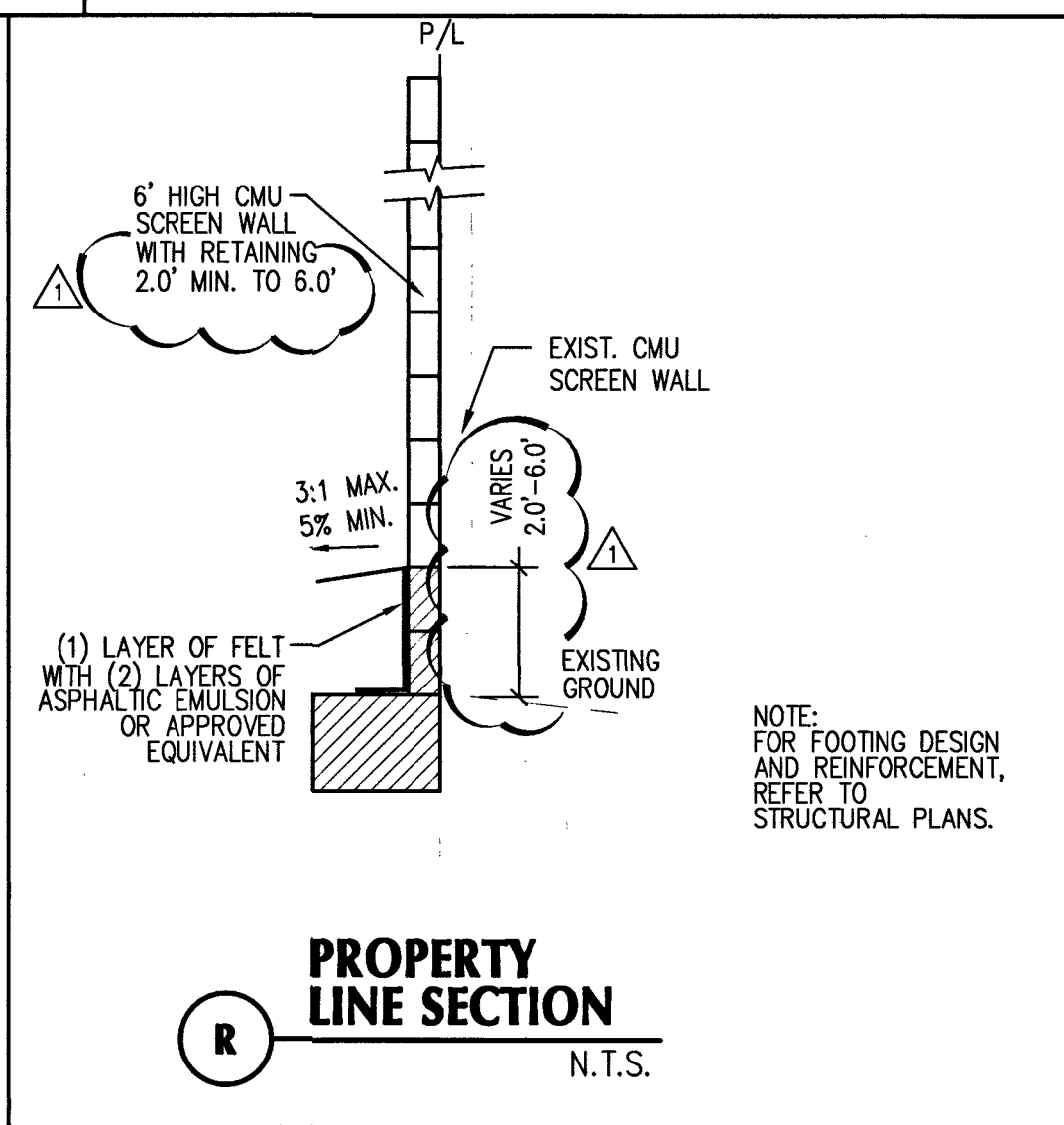
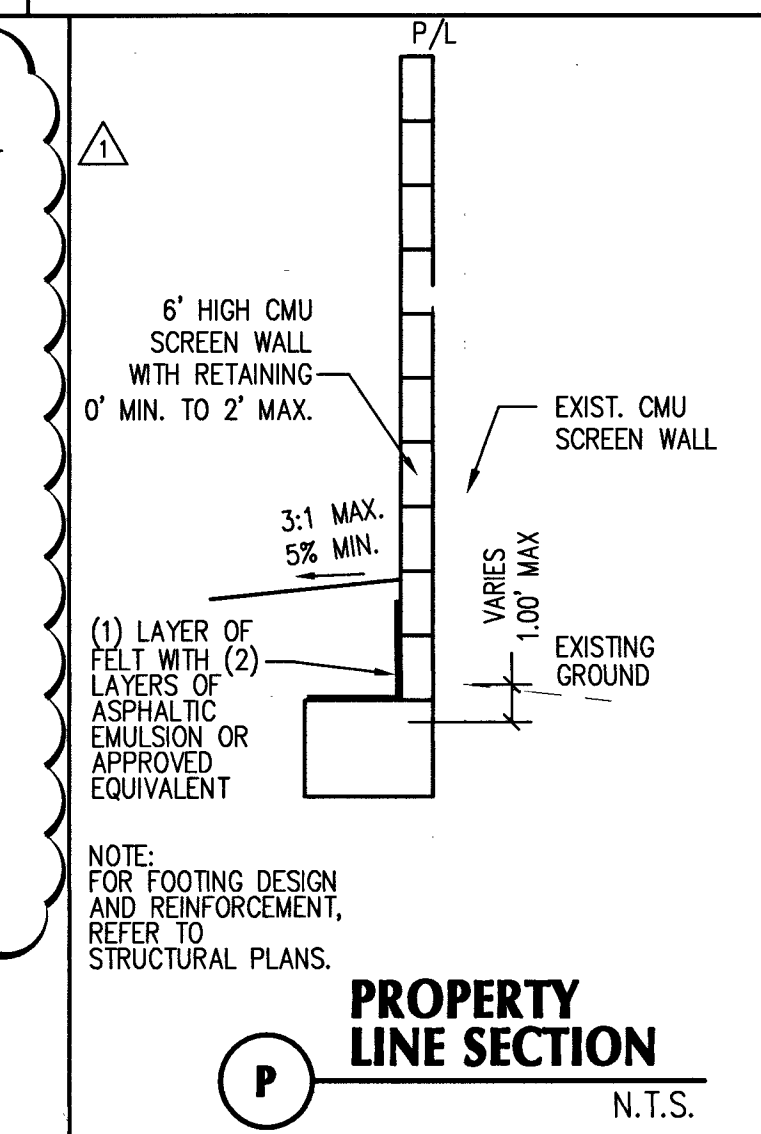
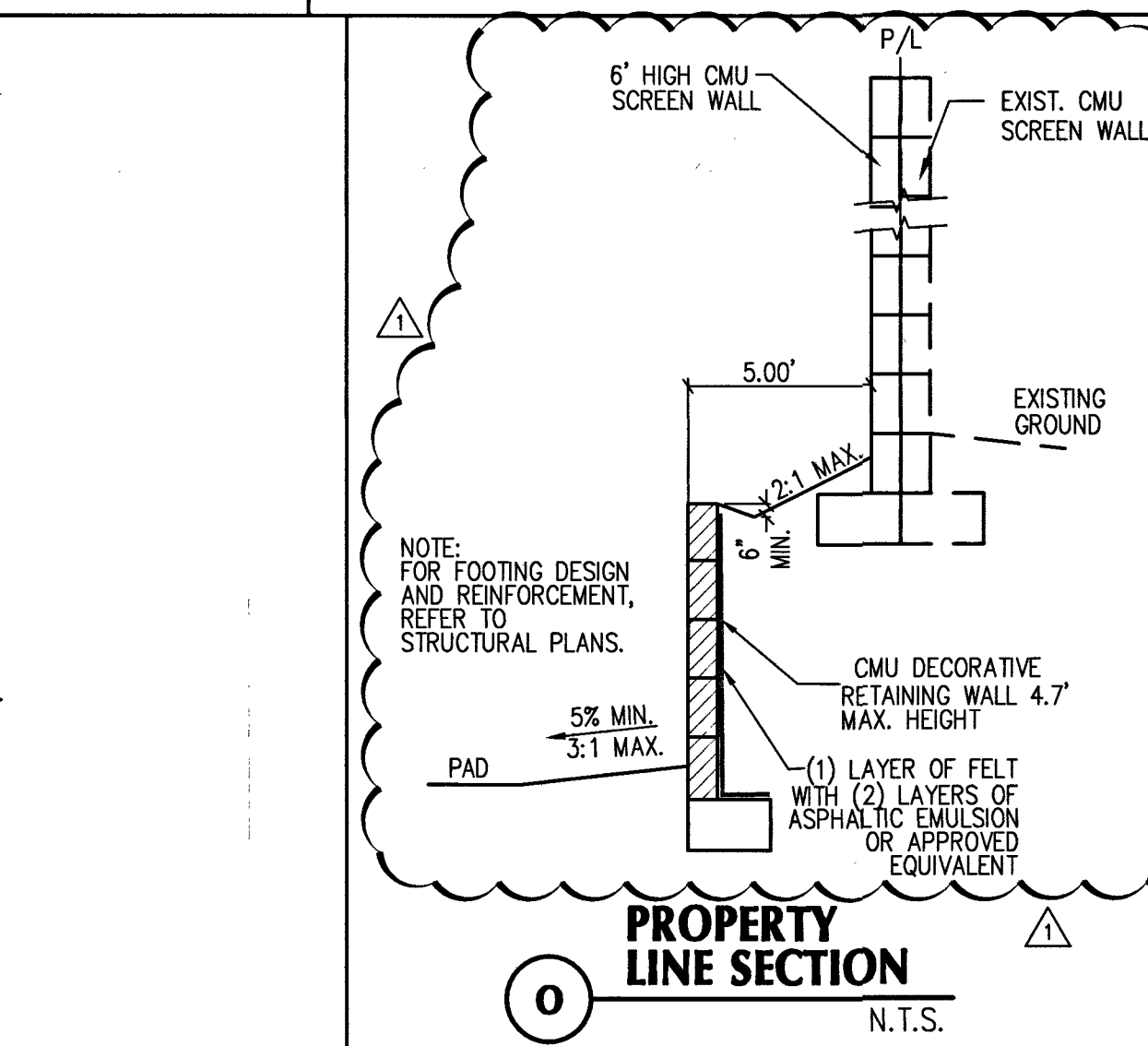
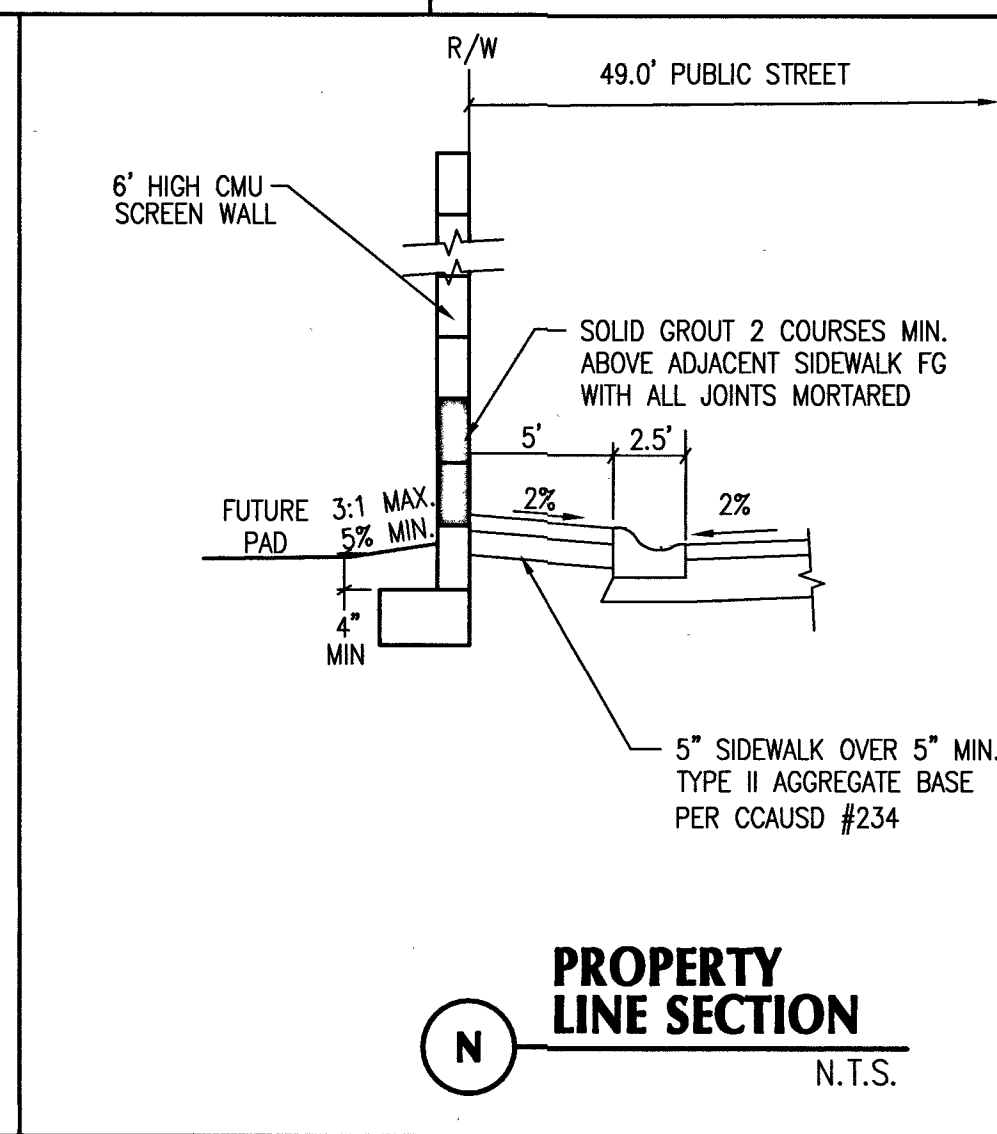
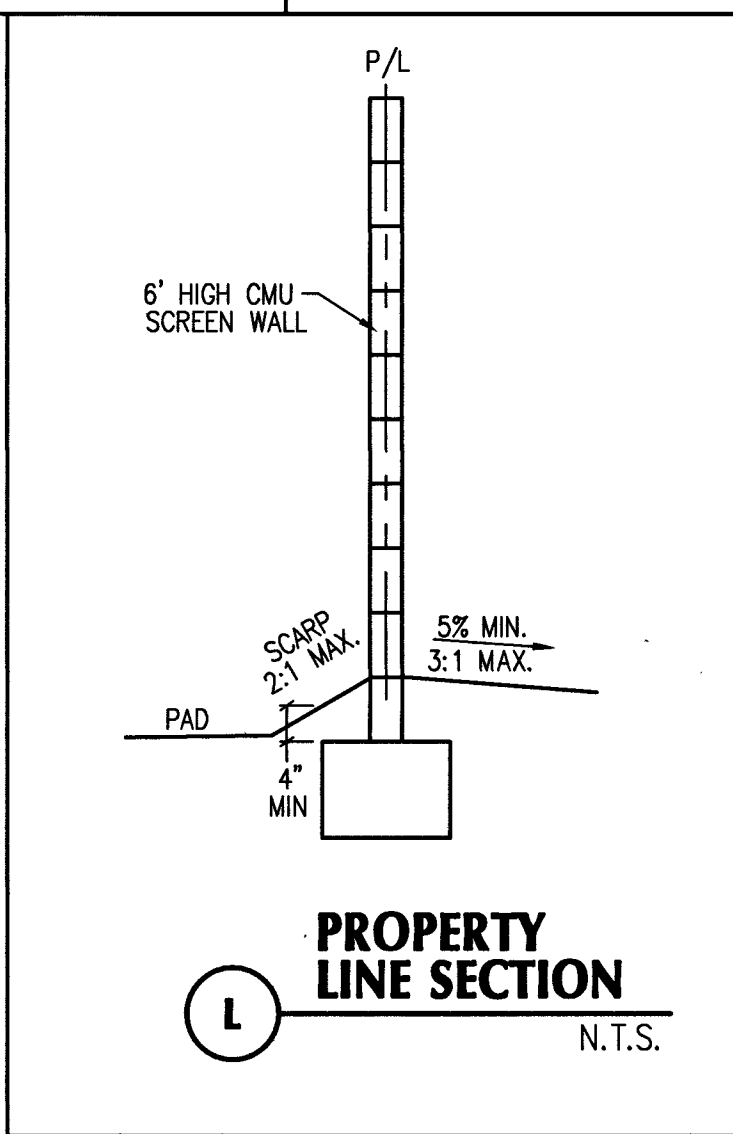
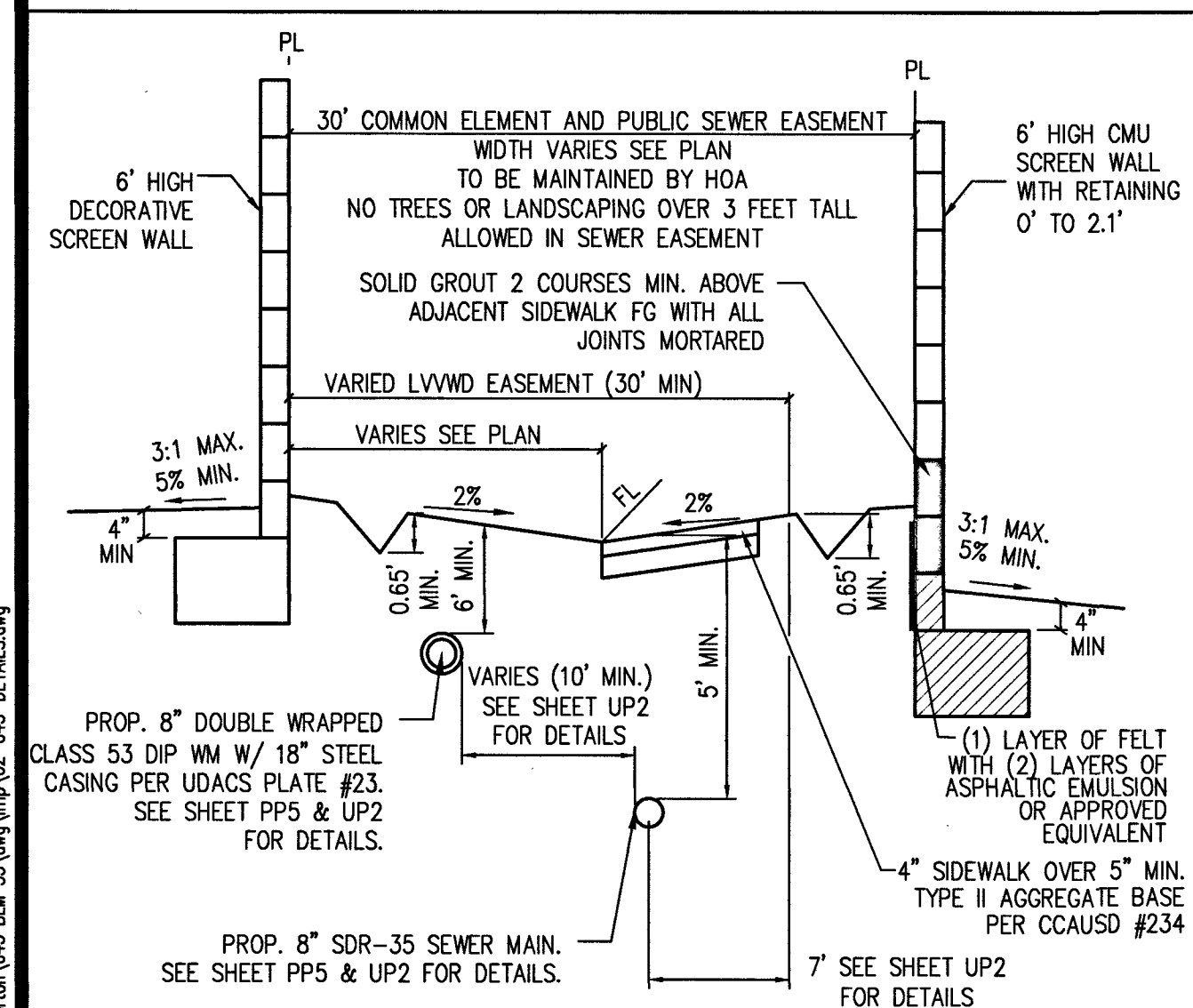
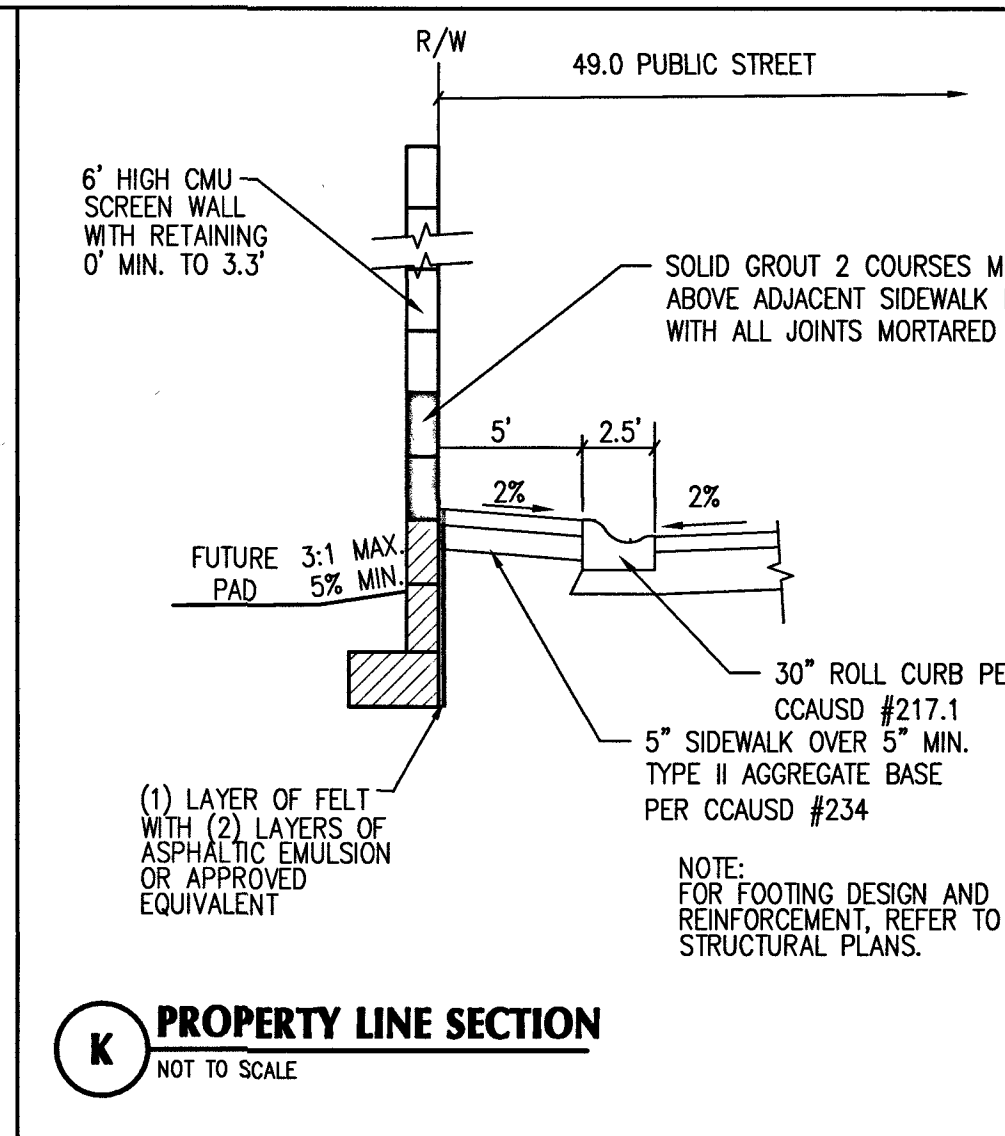
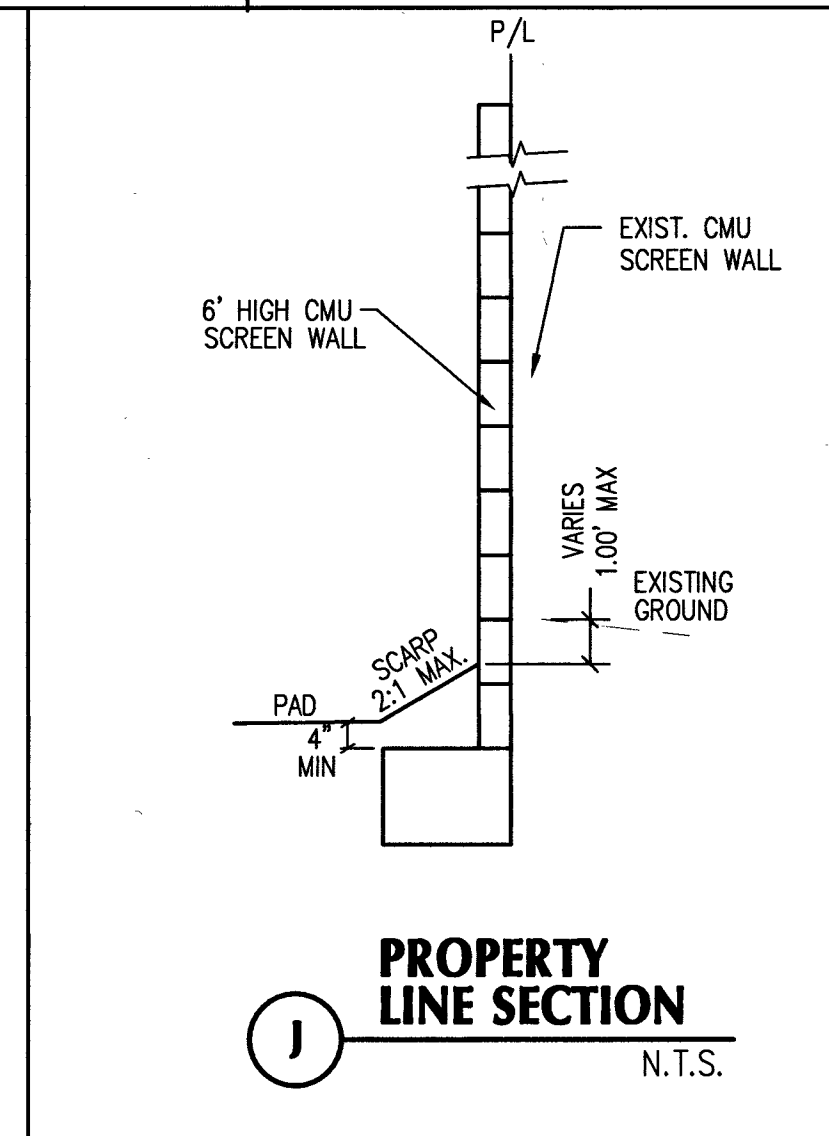
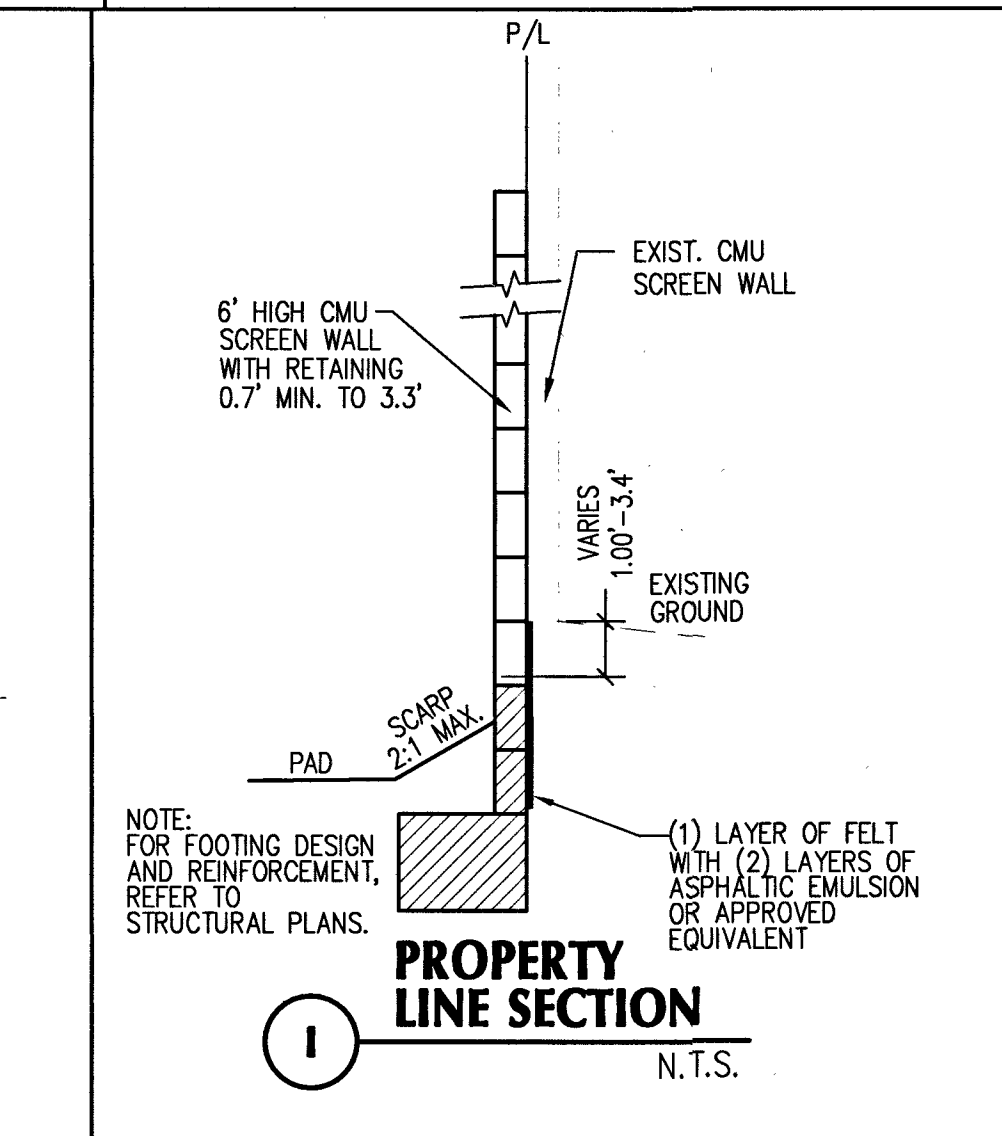
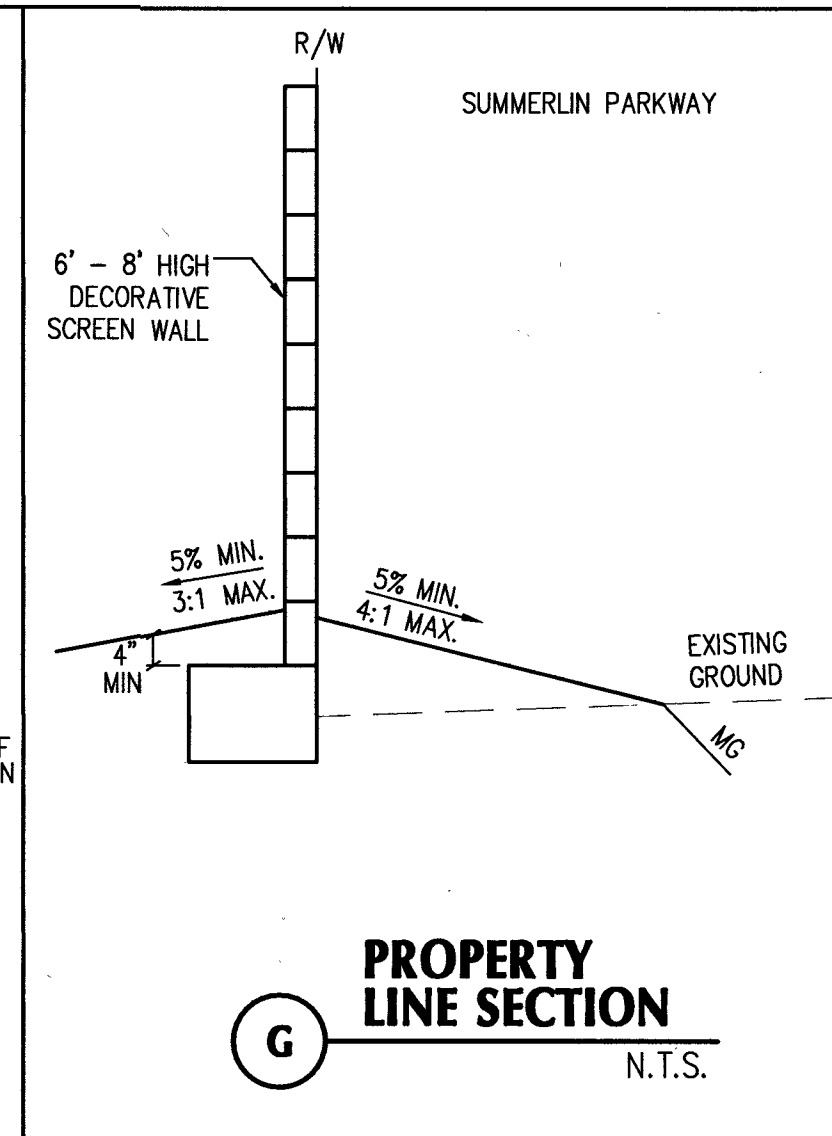
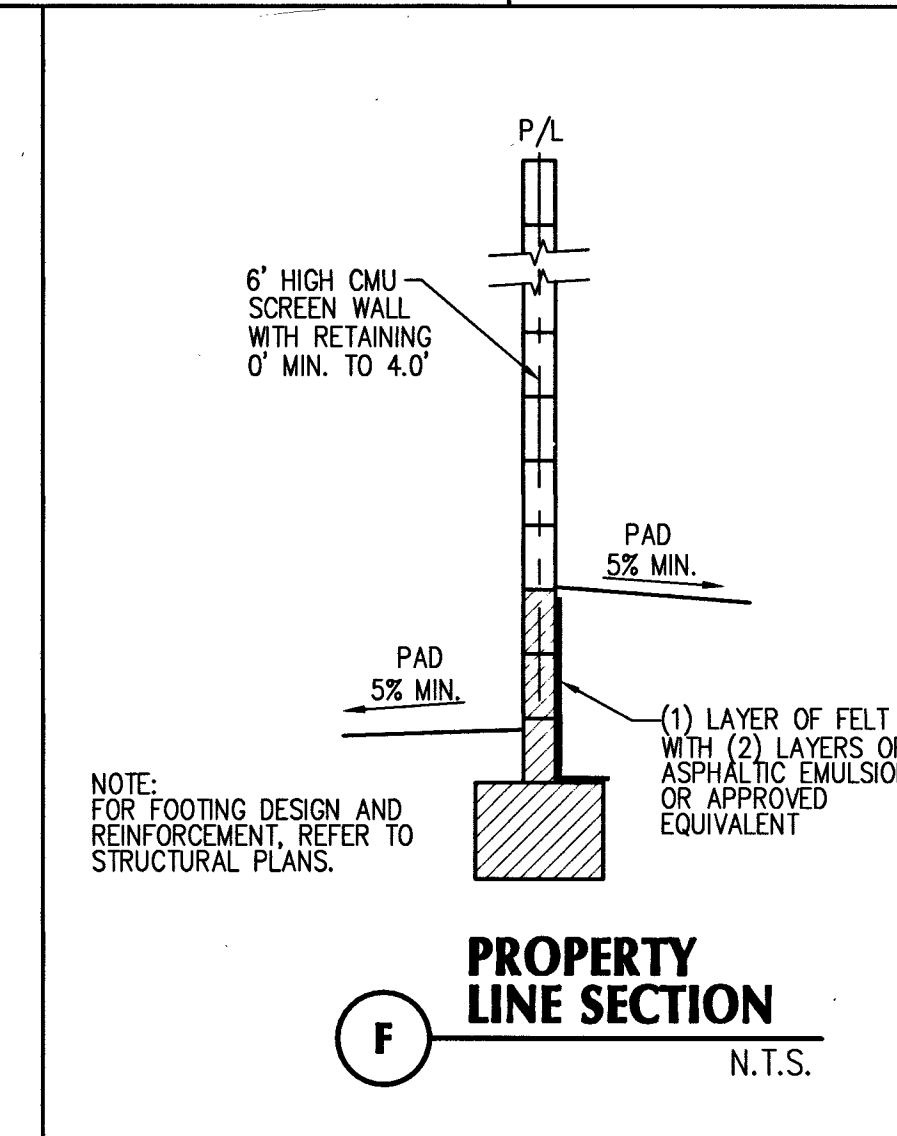
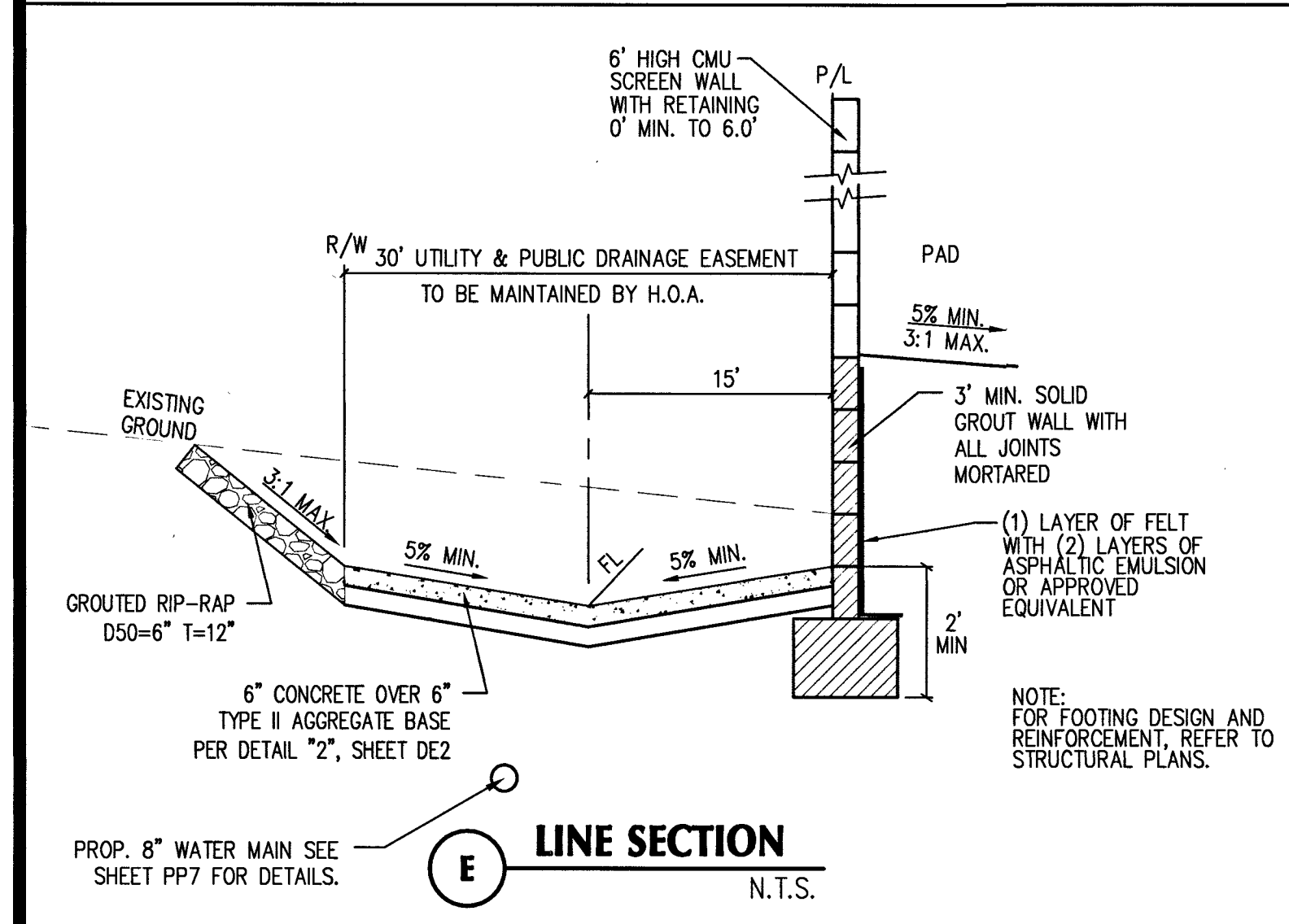
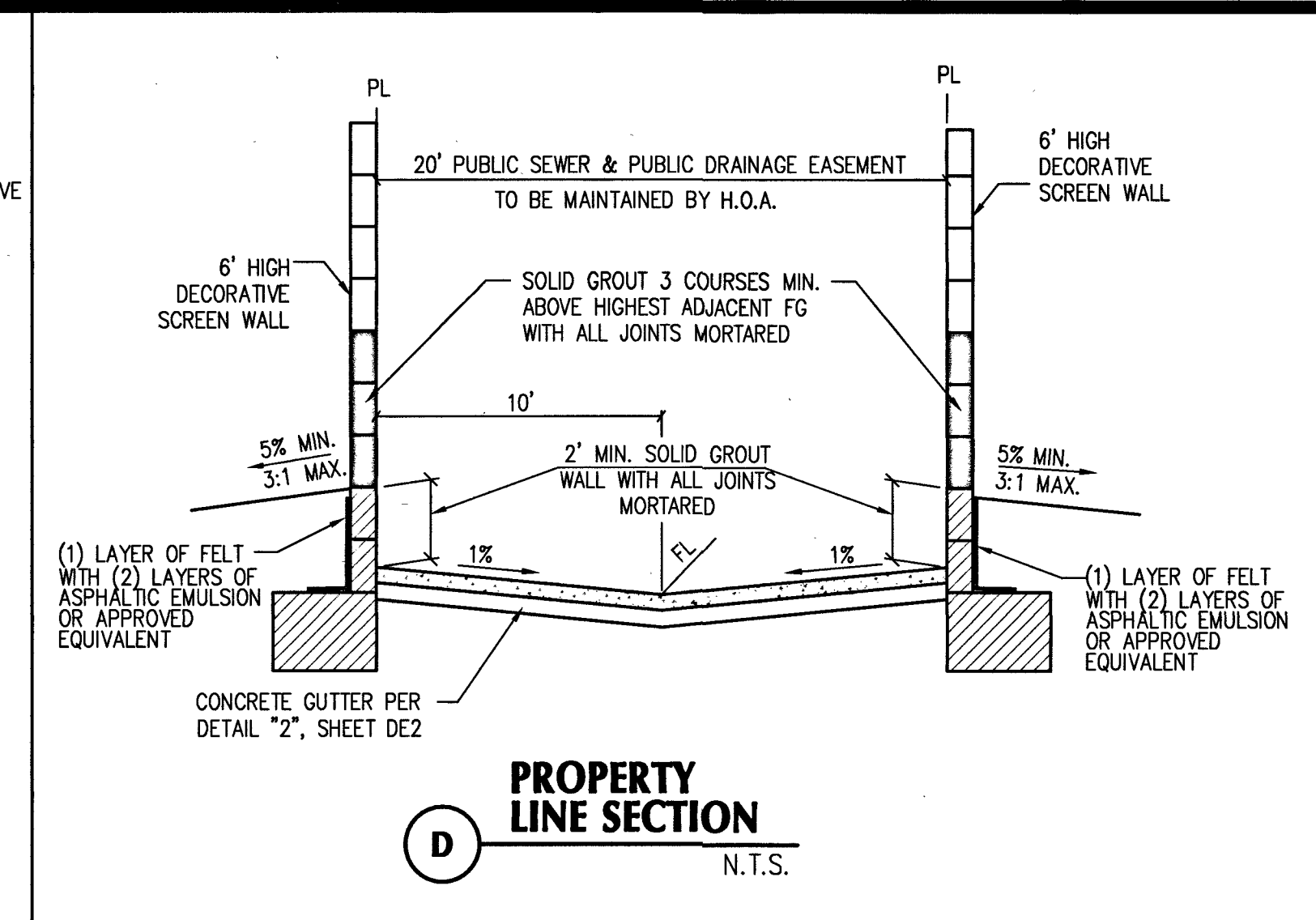
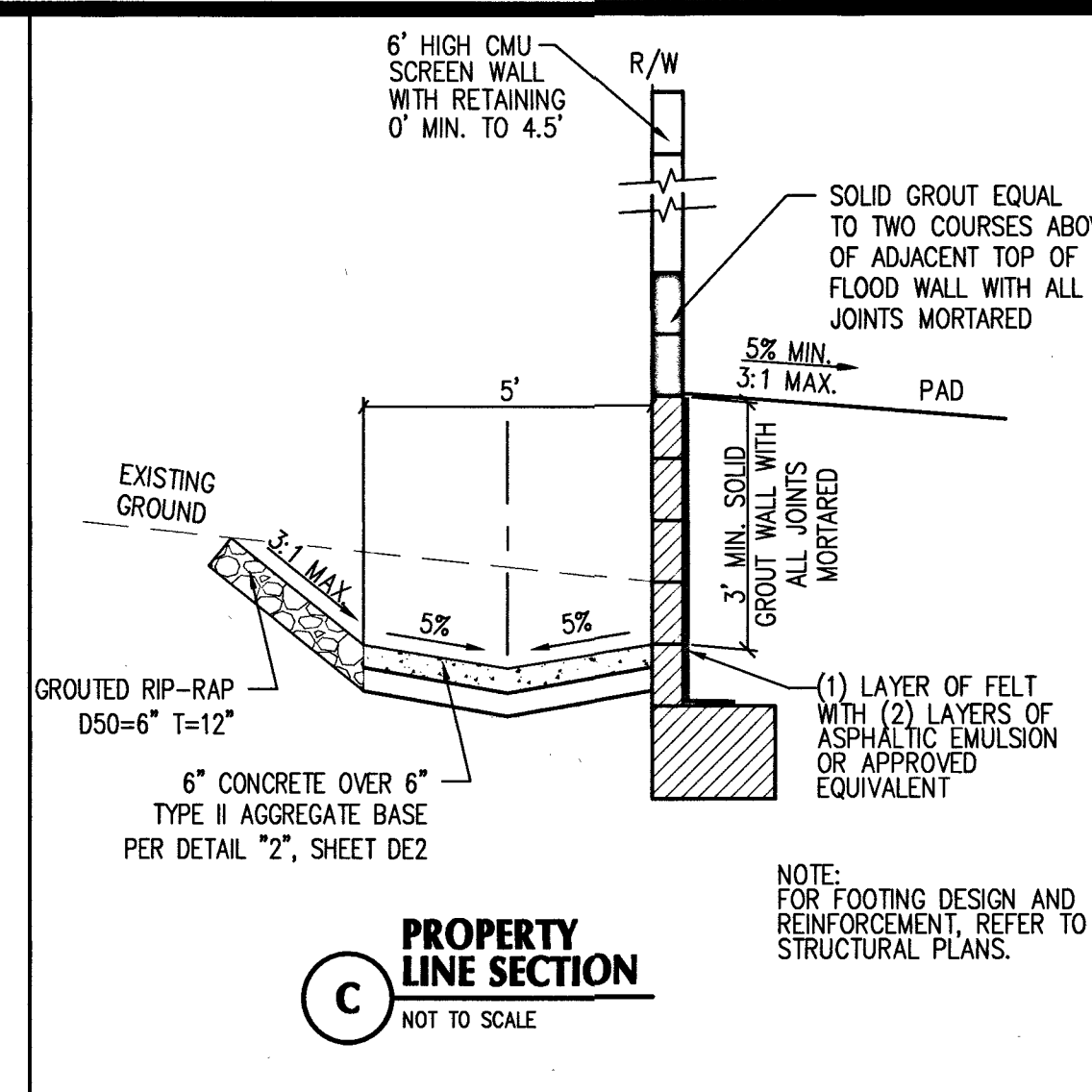
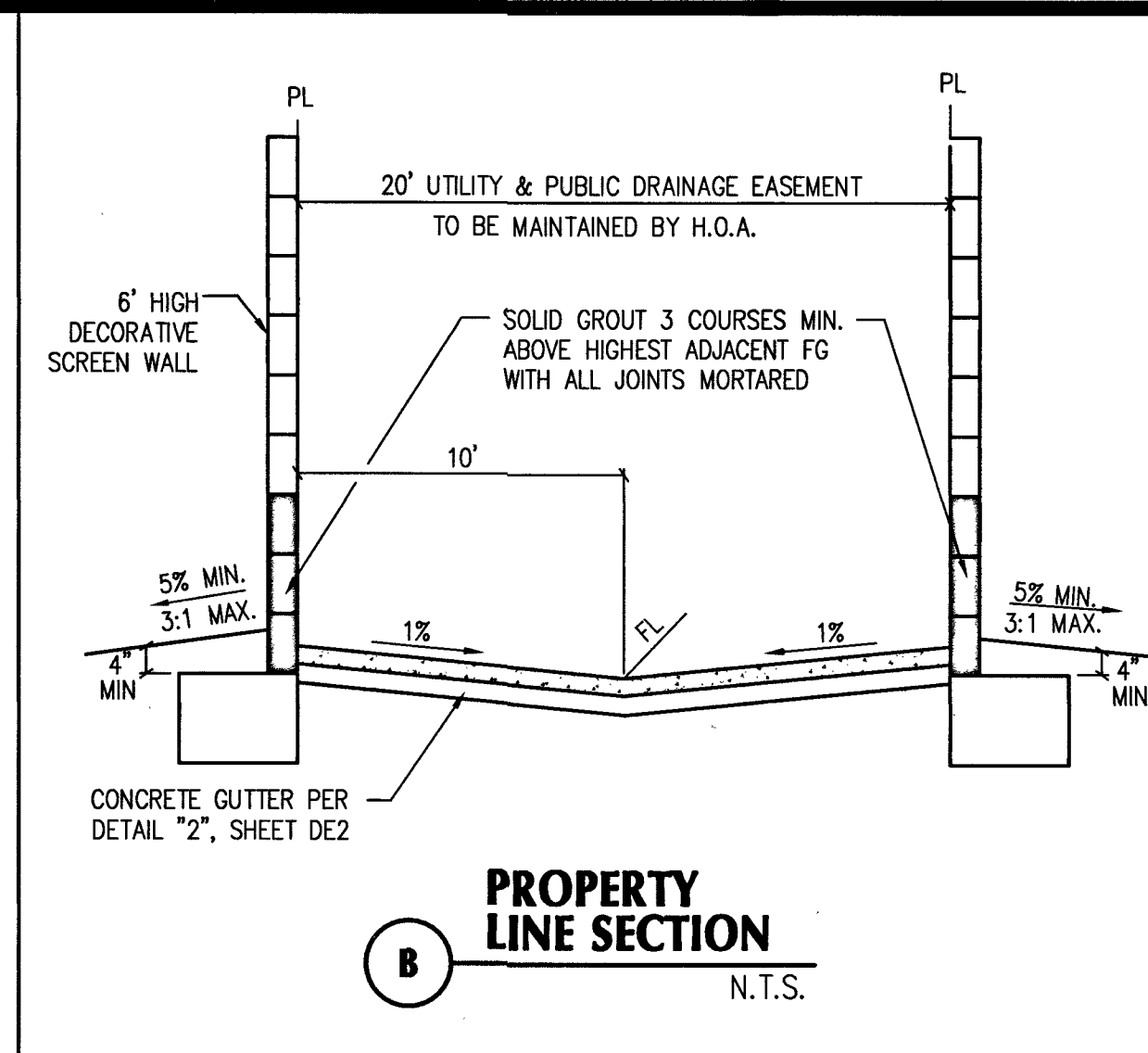
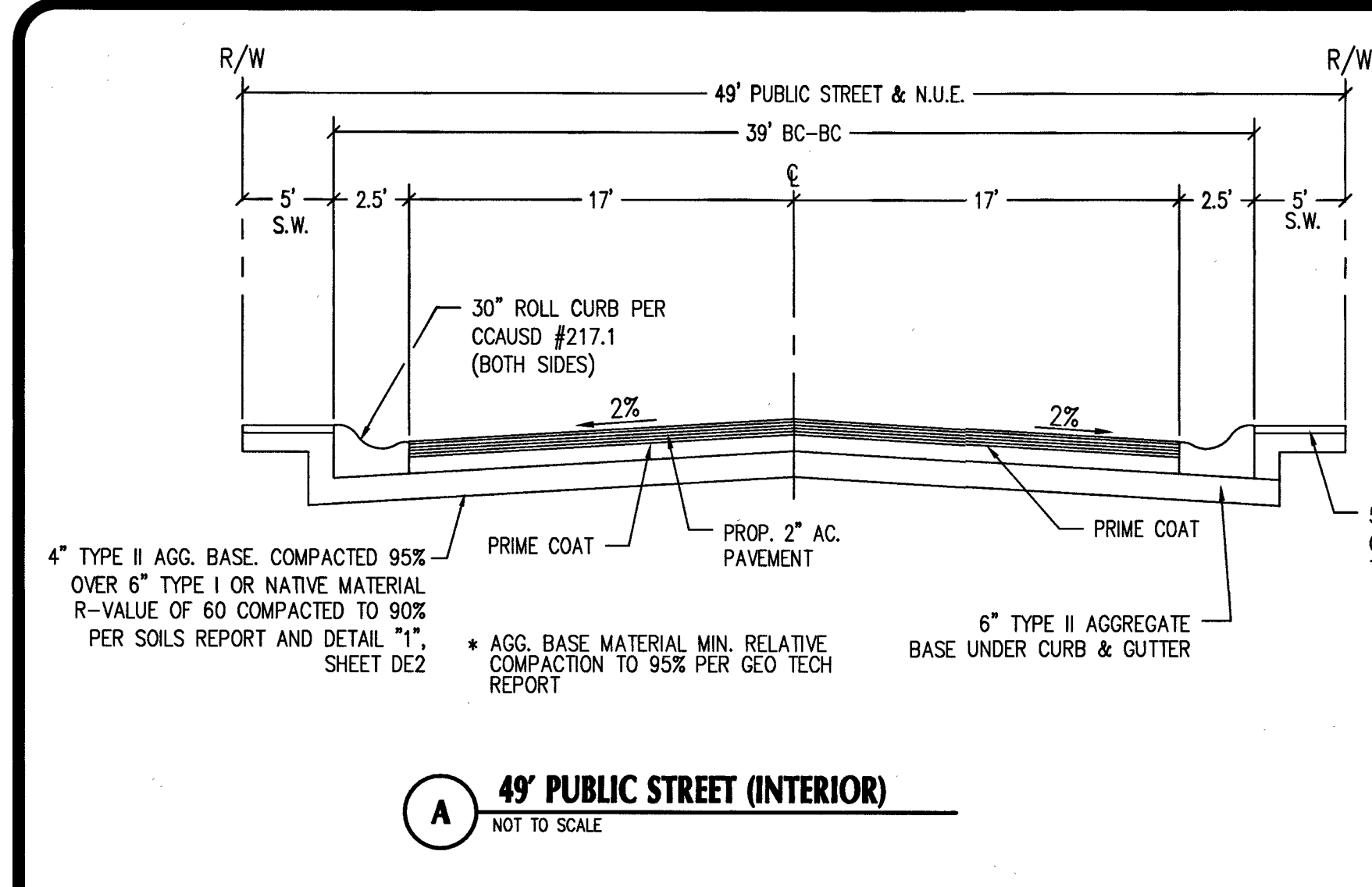
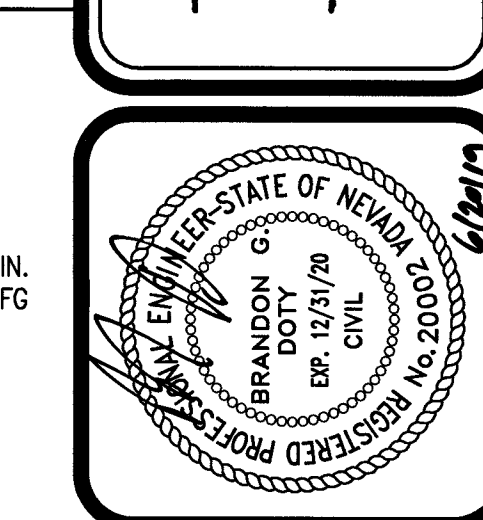




ADVANTAGE CIVIL DESIGN GROUP, LLP
2920 N. GREEN VALLEY PARKWAY, BLDG. 4 STE. # 422
HENDERSON, NEVADA 89014
Other: 702.452.2254
Fax: 702.456.2254
Email: AML@ADVANTAGECIVIL-LLP.COM
CONSULTING
CIVIL ENGINEERING



GRADING DETAILS 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 ETTINGS, ADDED NOTE TO REMOVE EX. SEWER SUB. ADDED DRY UTILITY PLANS.
2	5/2/19	
3	5/2/19	
4	5/2/19	
5	5/2/19	
6	5/2/19	
7	5/2/19	
8	5/2/19	
9	5/2/19	
10	5/2/19	

REVISIONS

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

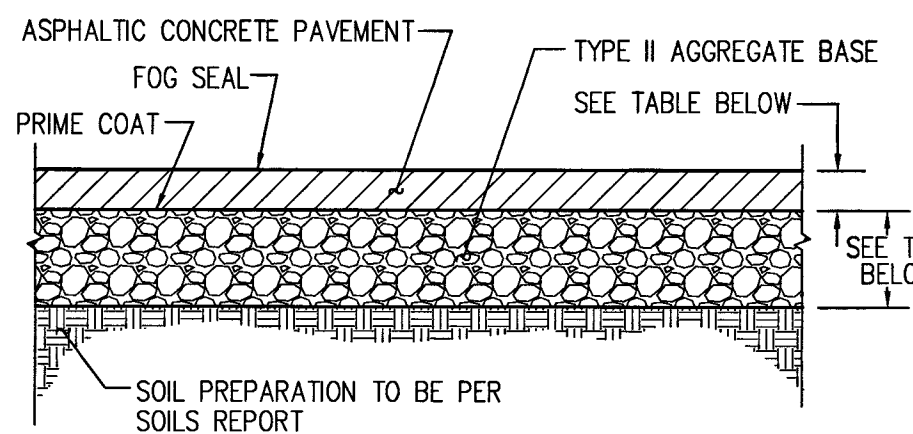
DE1 3 24

FAST
Call before you Dig
UnderGround
1-702-432-5300
FREIGHTWAY AND ARTERIAL
SYSTEM OF TRANSPORTATION

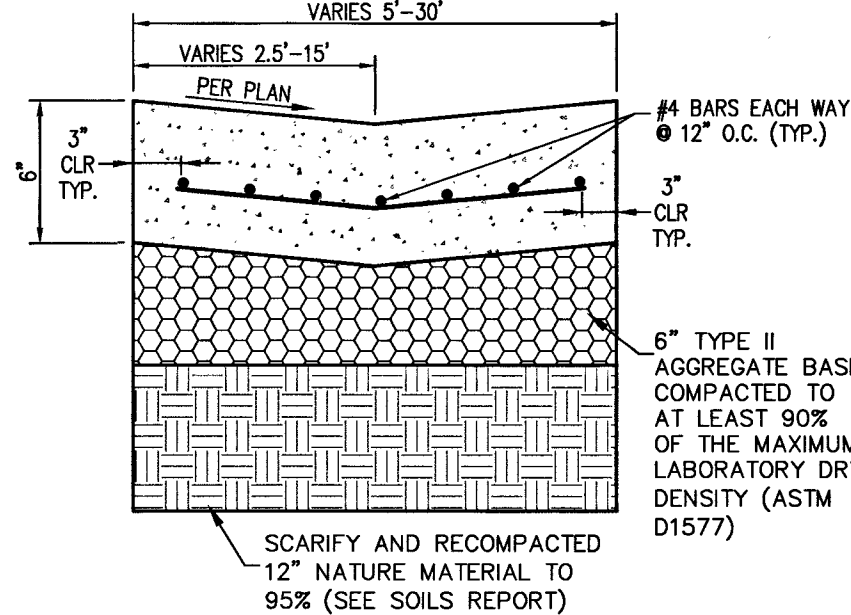
Call before you Dig
811
1-800-227-2600

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135831 DATE: 12/2018
LVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL

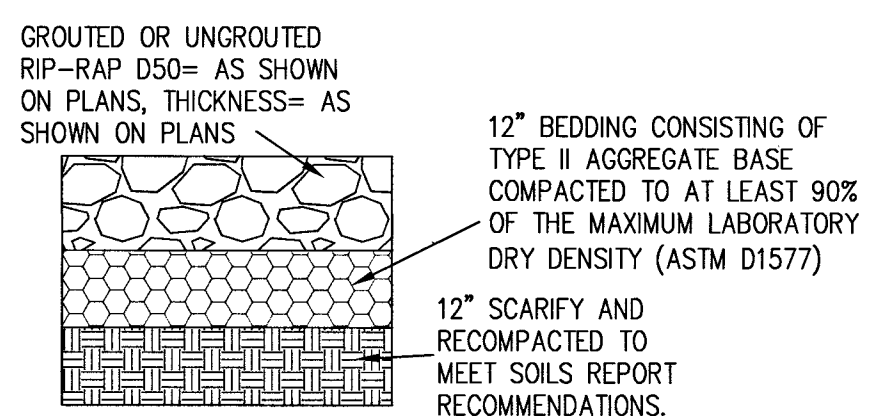
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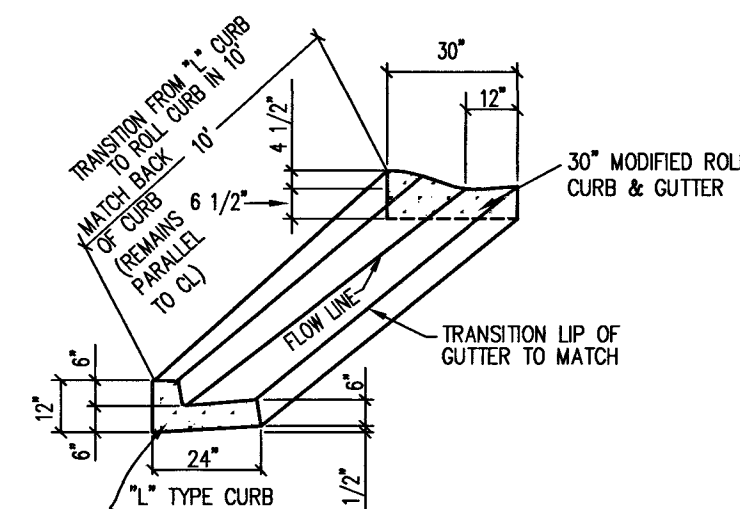
1 PAVING SECTION
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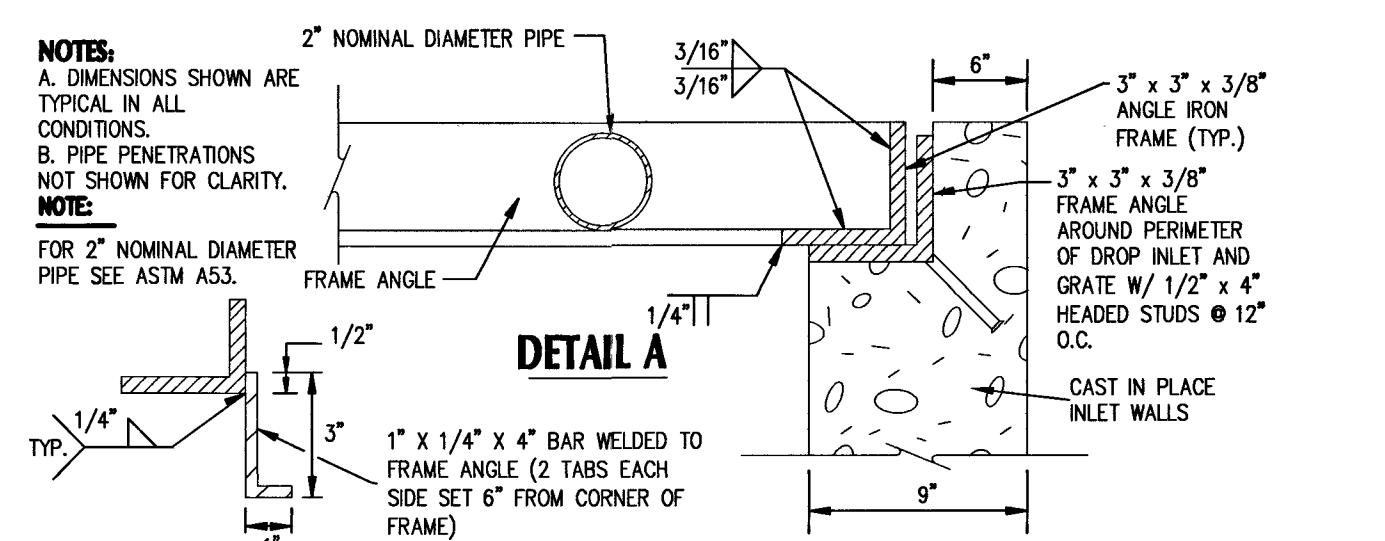
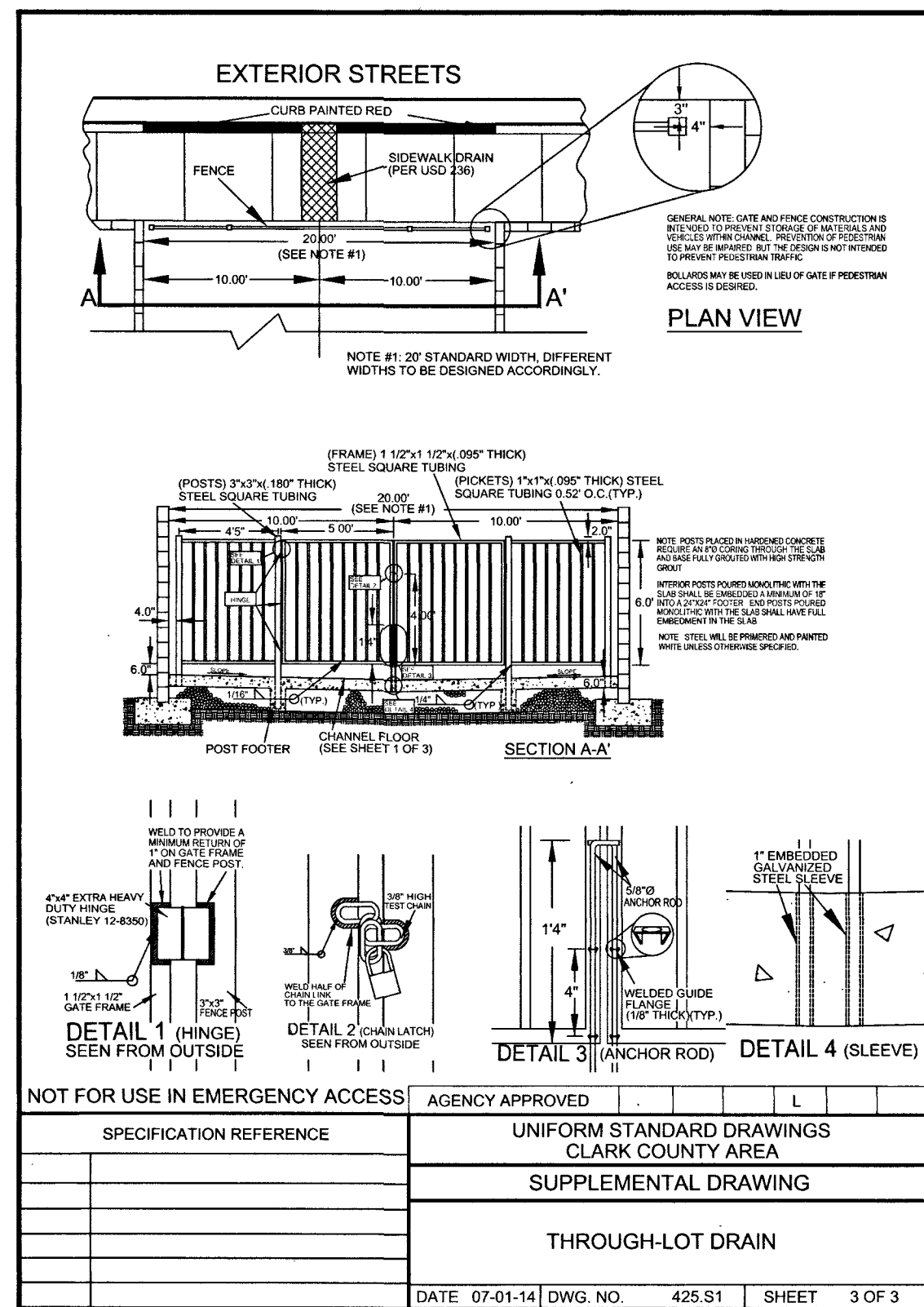
2 CONCRETE GUTTER
NOT TO SCALE



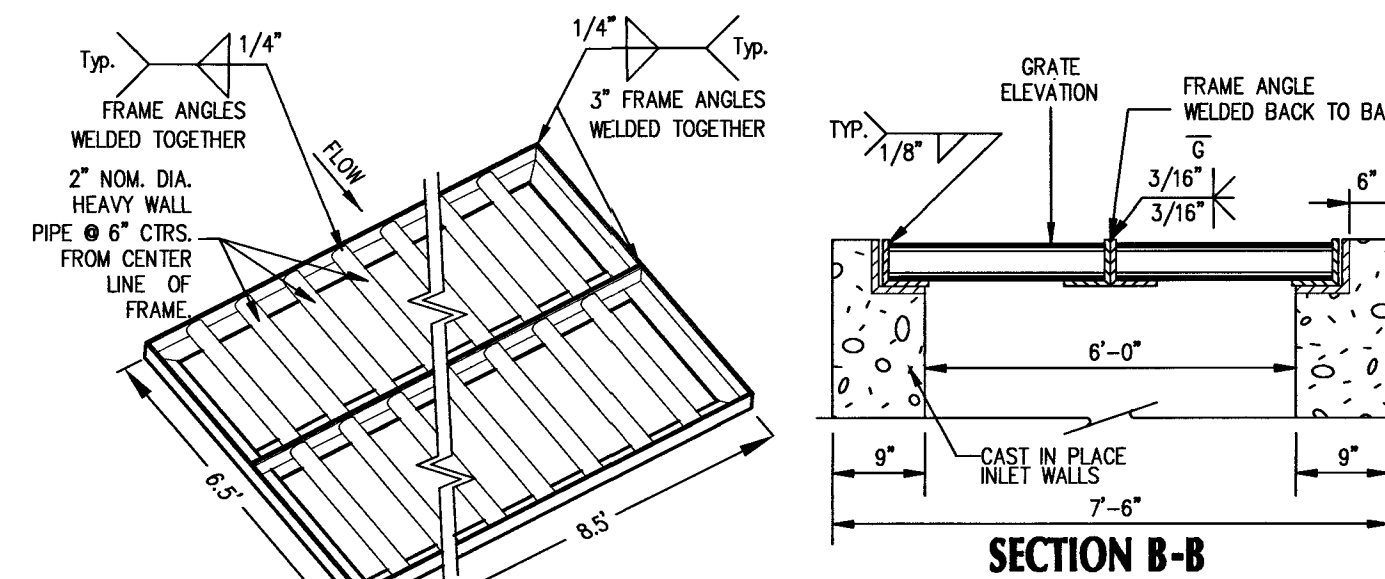
5 RIP RAP SECTION
NOT TO SCALE



3 1" TYPE CURB & GUTTER TRANSITION TO 30" ROLL TYPE CURB & GUTTER
NOT TO SCALE

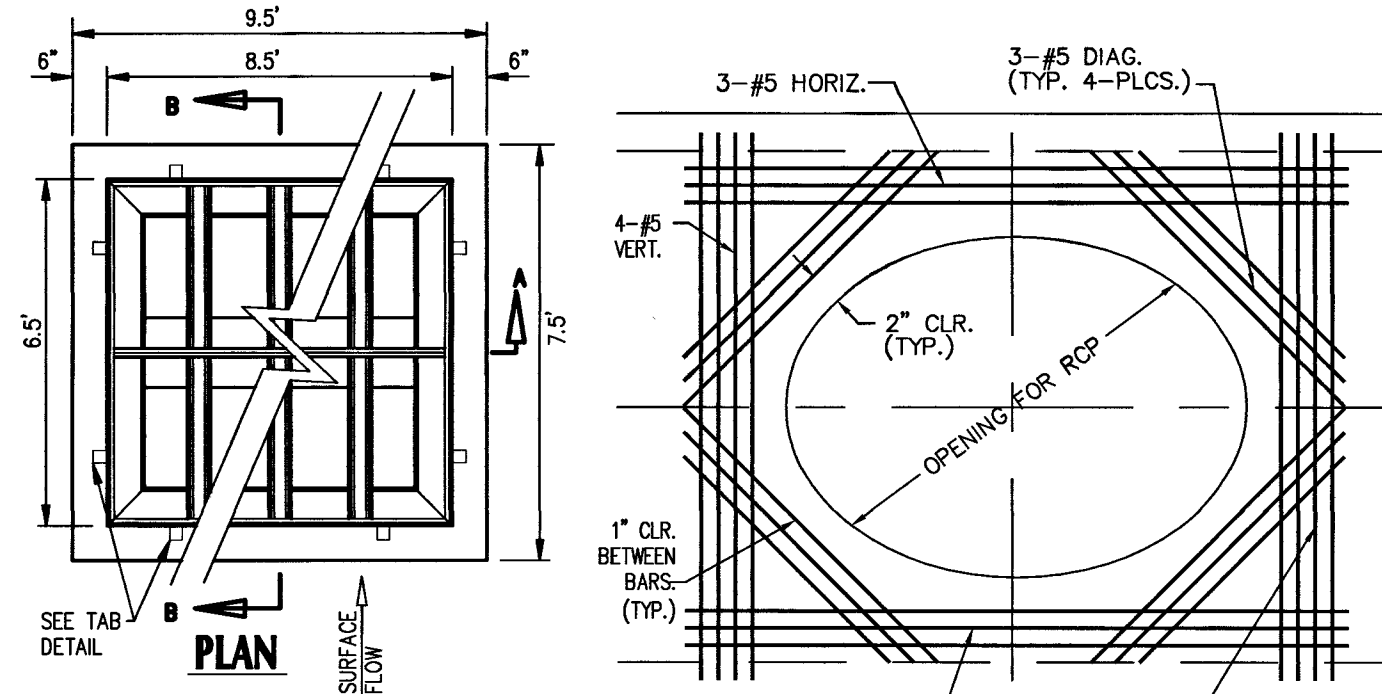


TAB DETAIL



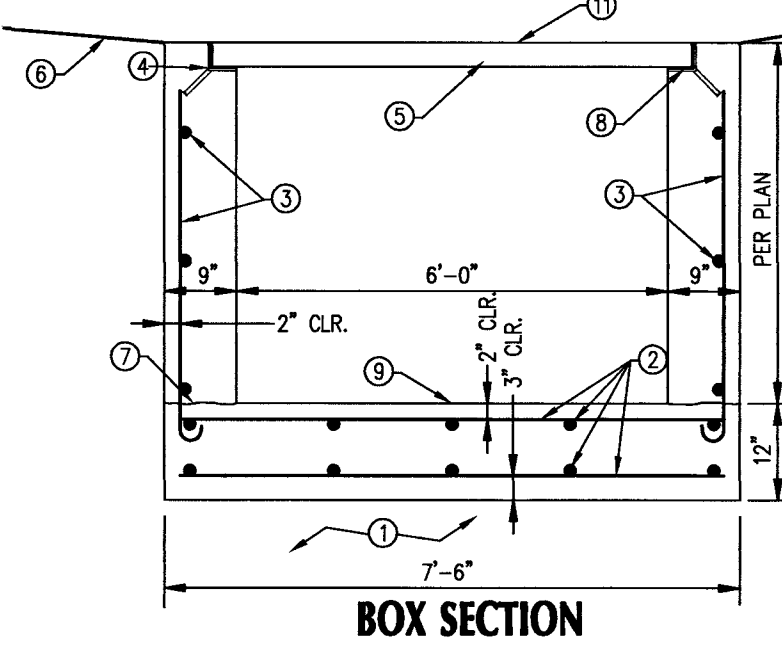
FABRICATED GRATE DETAIL

4 8'x6' GRATE DETAIL
NOT TO SCALE

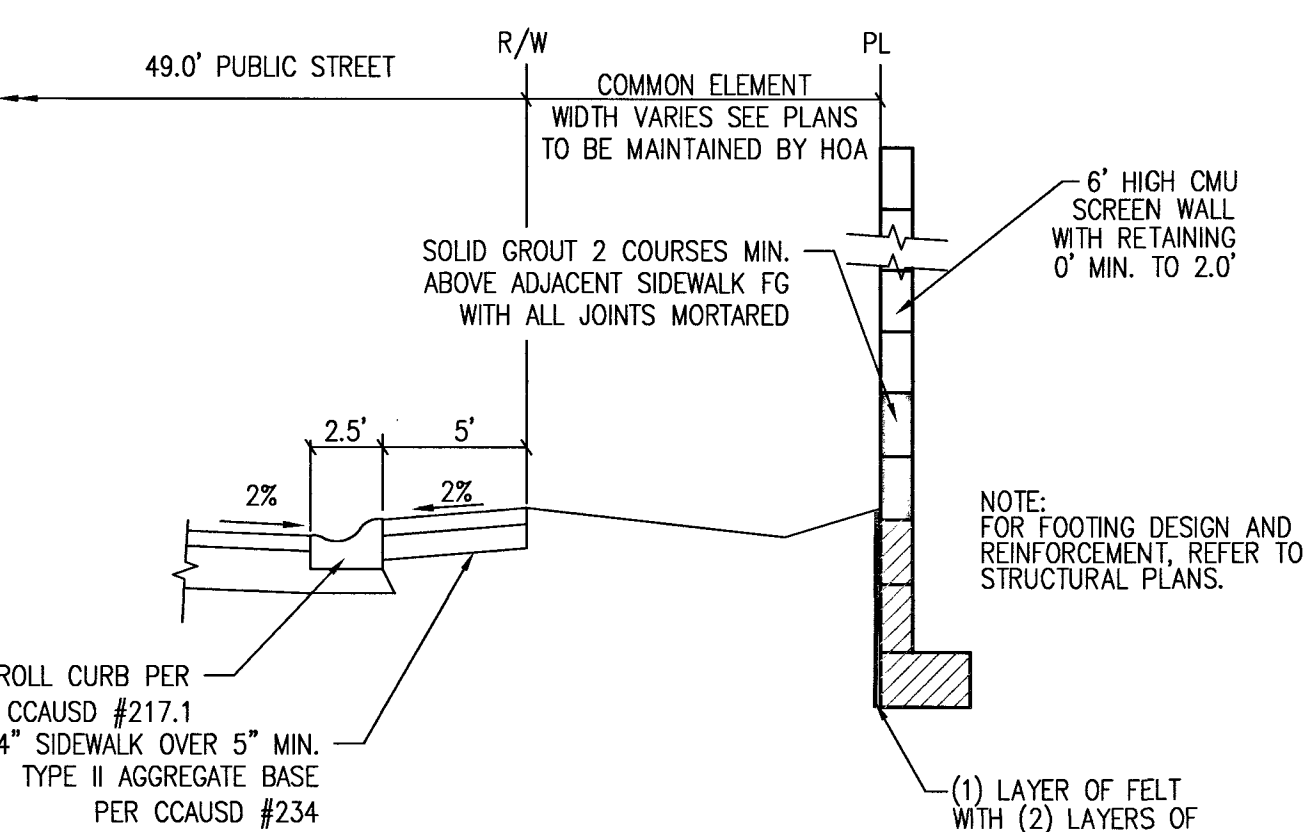


RCP CONNECTION REINFORCEMENT
NOT TO SCALE

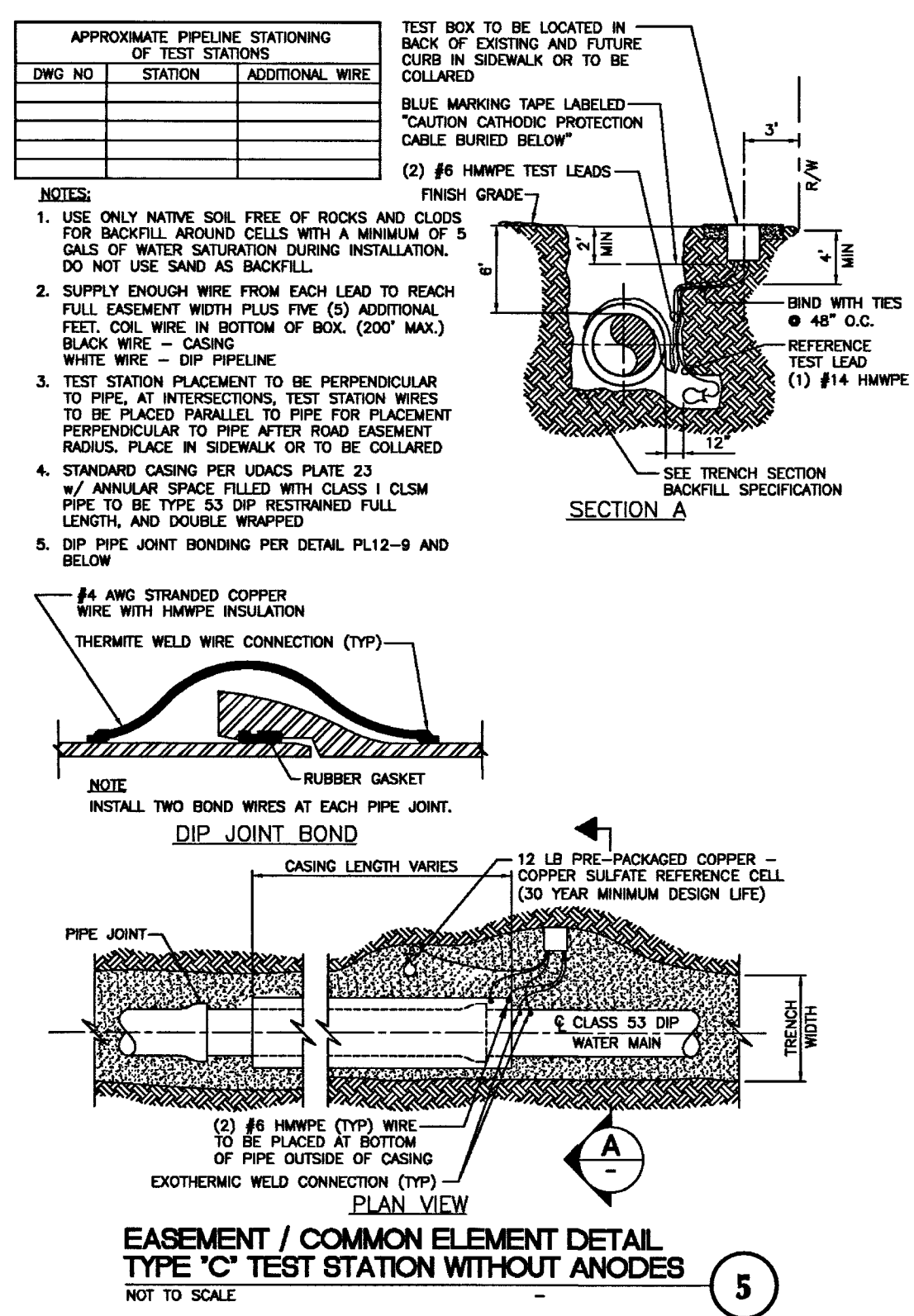
- CONSTRUCTION NOTES:**
- PROPERLY PREPARED SUB BASE PER SOILS REPORT.
 - #5 AT 14" EACH WAY TAB.
 - #4 BARS TO HAVE STD. HOOK INTO FLOOR SLAB.
 - 3" x 3" x 3/8" FRAME ANGLE W/ 1/2" x 4" HEADED STUDS @ 12" O.C.
 - FABRICATED GRATE AND FRAME.
 - FINISHED GRADE PER PLAN.
 - ROUGHENED CONSTRUCTION JOINT AT CONTRACTORS OPTION. ROUGHEN INTERFACE 1/4" AMPLITUDE.
 - PROVIDE 1/4" GAP BETWEEN FRAME ANGLE AND GRATE ALL AROUND PERIMETER.
 - INVERT (INV) PER PLAN.
 - #5 AT 16" O.C. EACH WAY OUTSIDE FACE ONLY WHERE ADDITIONAL CURBING IS SHOWN PER PLAN. HOOK BARS TO HAVE STD. HOOK INTO FLOOR SLAB.
 - TOP OF GRATE (TG) PER PLAN.
 - TOP OF CURB (TC) PER PLAN.



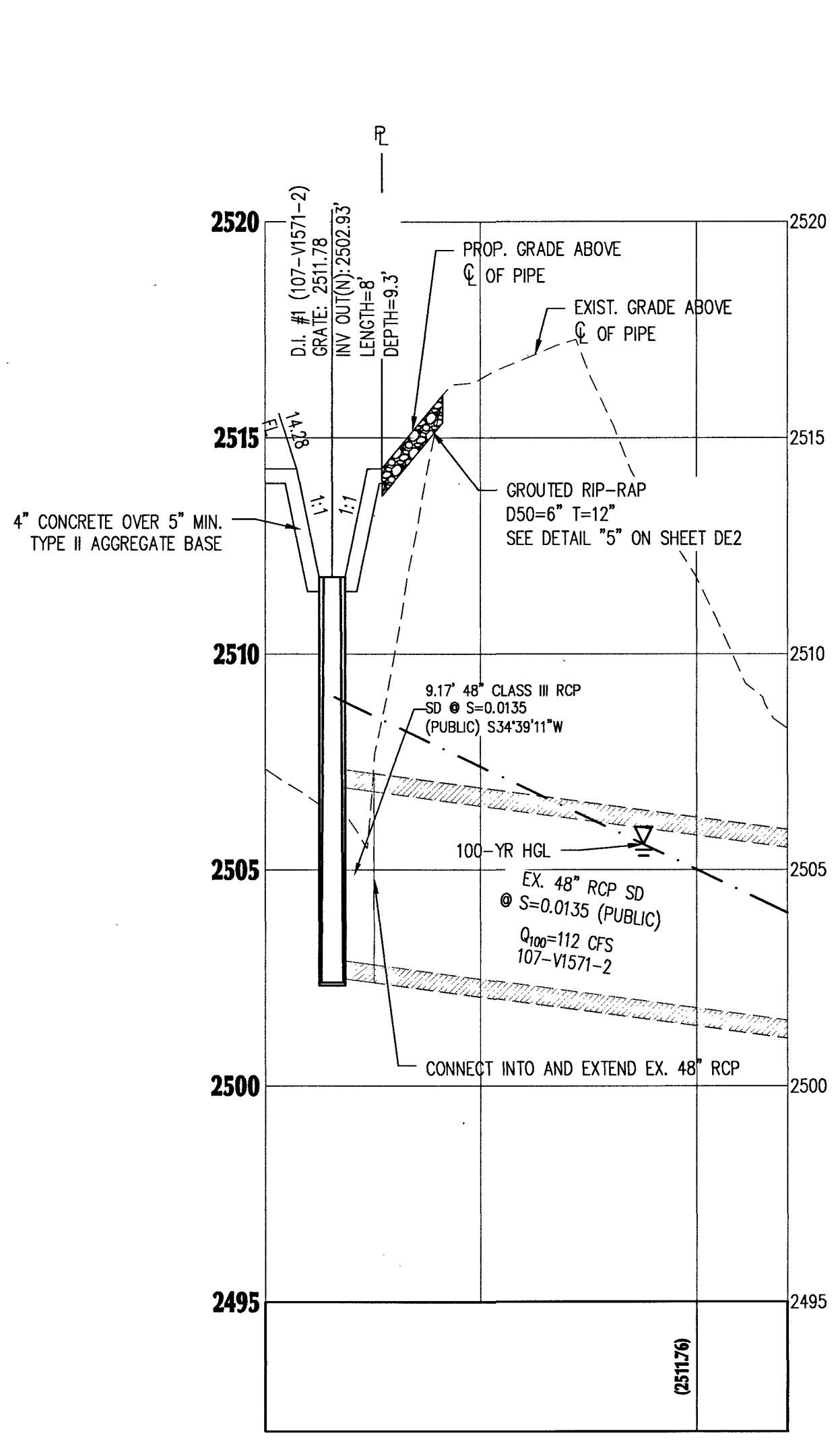
BOX SECTION



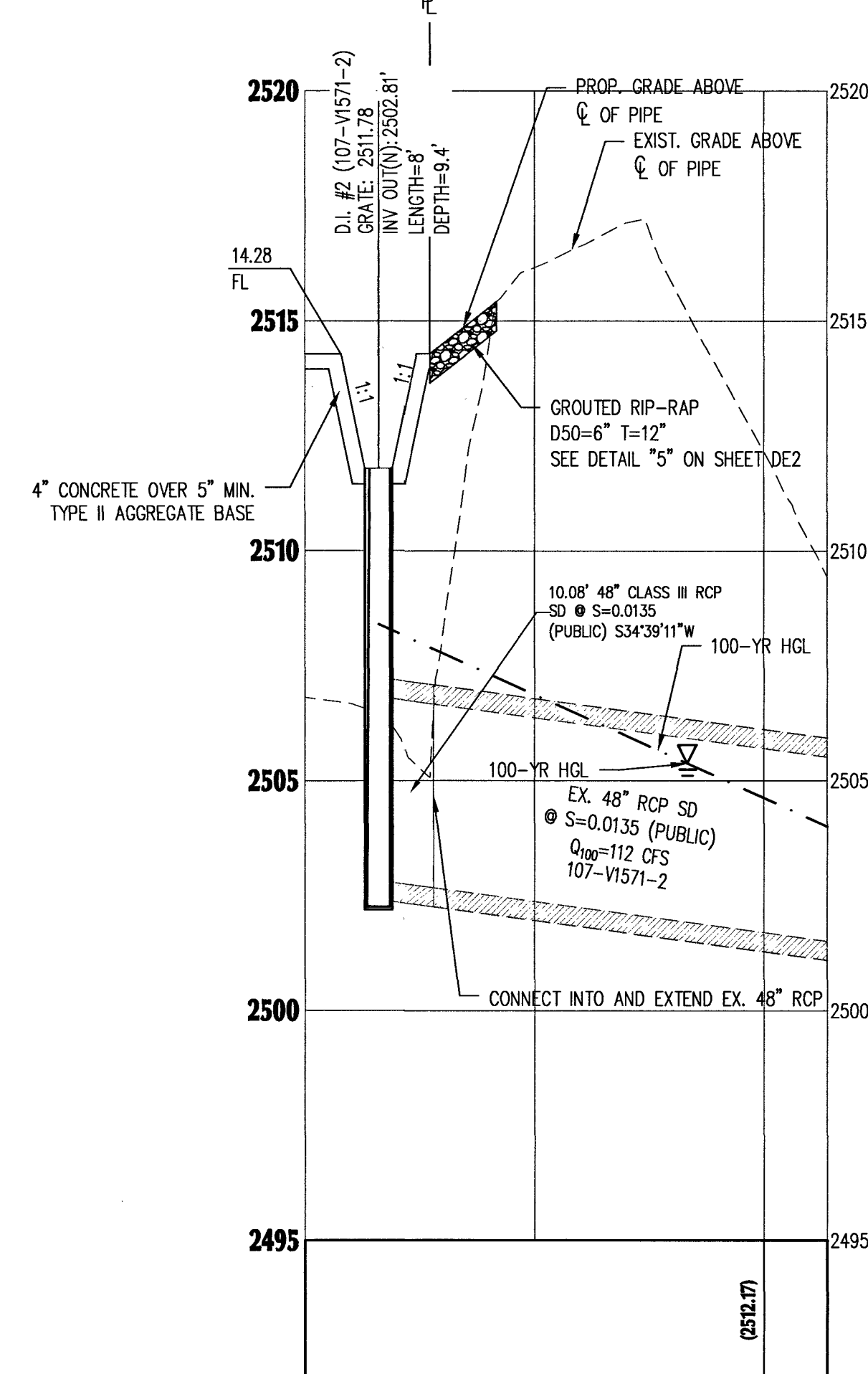
U PROPERTY LINE SECTION
NOT TO SCALE



5



DROP INLET #1-PROFILE VIEW
HORIZONTAL: 1"=30'
VERTICAL: 1"=3'

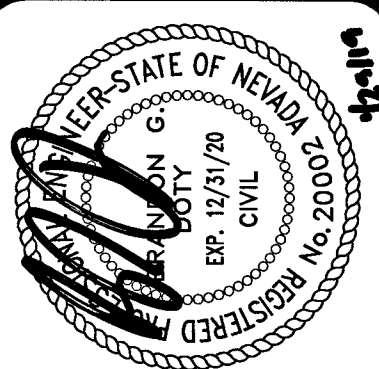


DROP INLET #2-PROFILE VIEW
HORIZONTAL: 1"=30'
VERTICAL: 1"=3'

APPROVED FOR CONSTRUCTION

Las Vegas Valley Water District Engineering Services
PROJECT NO. 13531A DATE: 02-04-14
LVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL

ADVANTAGE CIVIL DESIGN GROUP, LLP
2920 N. GREEN VALLEY PKWY, BLDG. 4 STE. # 422
HENDERSON, NEVADA 89014
OFFICE: 702.452.2244
FAX: 702.456.2244
Email: info@advantagecivil-nv.com
CONSULTING
CIVIL ENGINEERING



GRADING DETAILS 2
BLM 33
BY D.R. HORTON

NO.	DATE	REVISIONS	DESCRIPTION
1			
2			
3			
4			
5			
6			
7			
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9			
10			

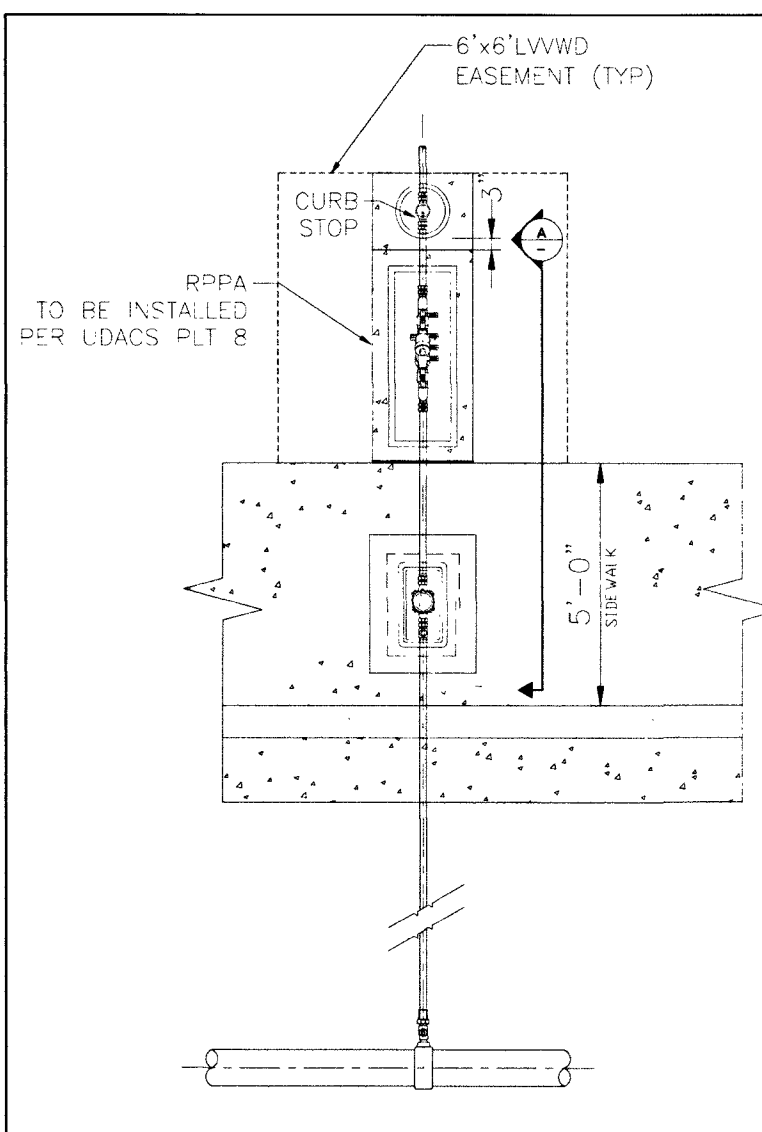
JOB NUMBER: 02-043
DRAWN BY: CW
DESIGNED BY: CW
CHECKED BY: BGD
DATE: 12/2018
DE2
4
24

Call before you Dig
Call before you UnderGround
Call before you Overhead

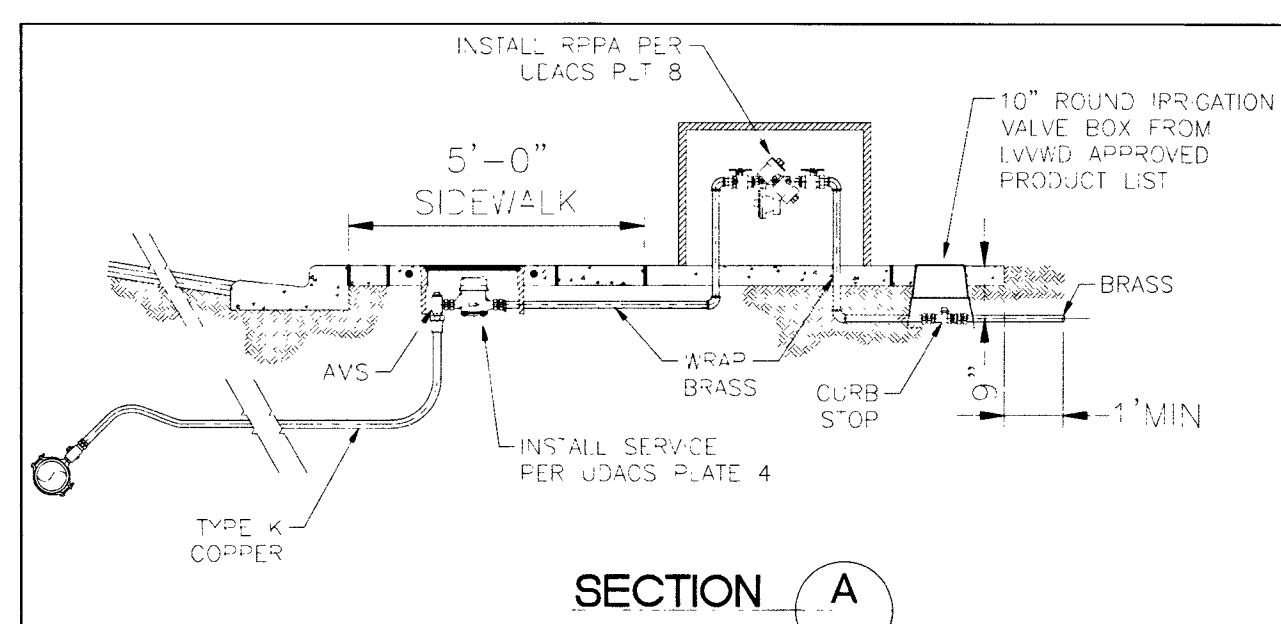
811
OR
1-800-227-2600

FAST
1-702-432-5300

1-702-227-2929



7 IRRIGATION DETAIL
NOT TO SCALE



SECTION A

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

FAST LAS VEGAS VERTICAL CONTROL POINT "OLYD 2864" 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.
10. INSTALL GROUTED LANDSCAPE ROCK SWALE D50=6", T=12" PER DETAIL "5" ON SHEET DE2.
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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

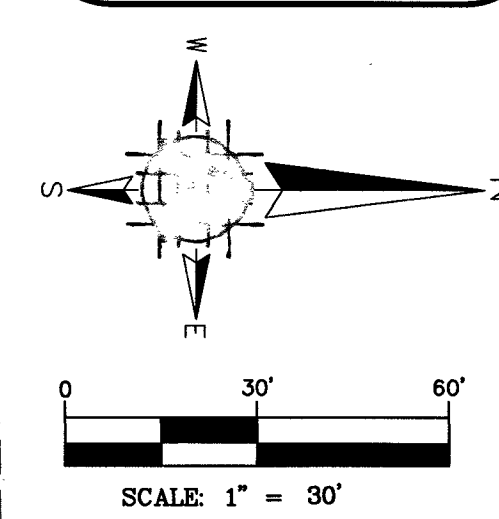
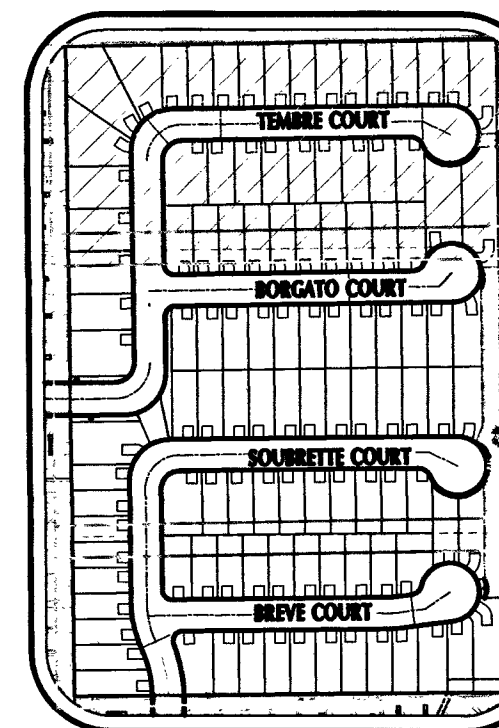
FLOOD NOTE:

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"

BRANDON G. DOTY P.E. #20002
6/20/2019
DATE
L18-02380 10754099



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

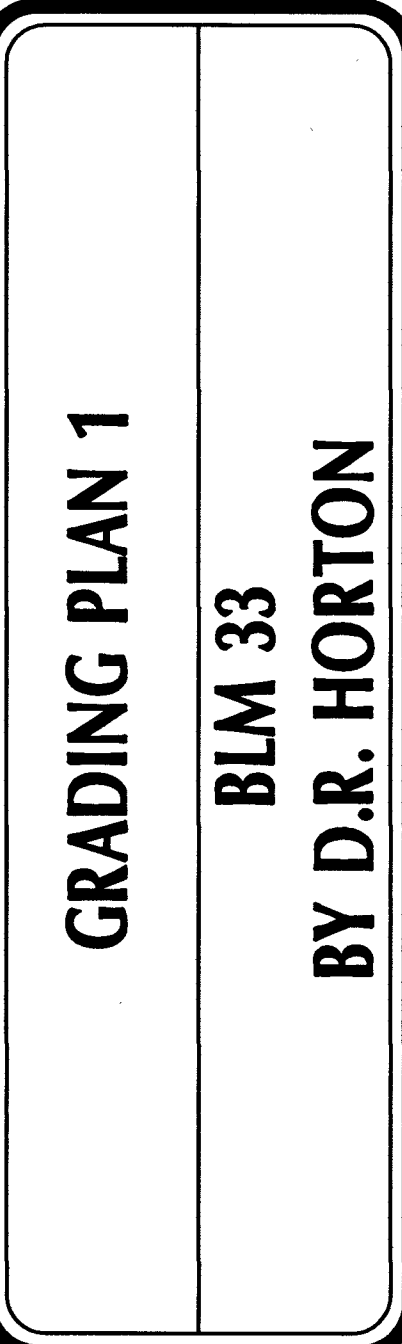
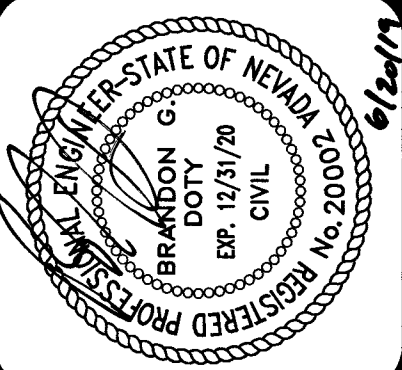
GRADING PLAN 1

BLM 33

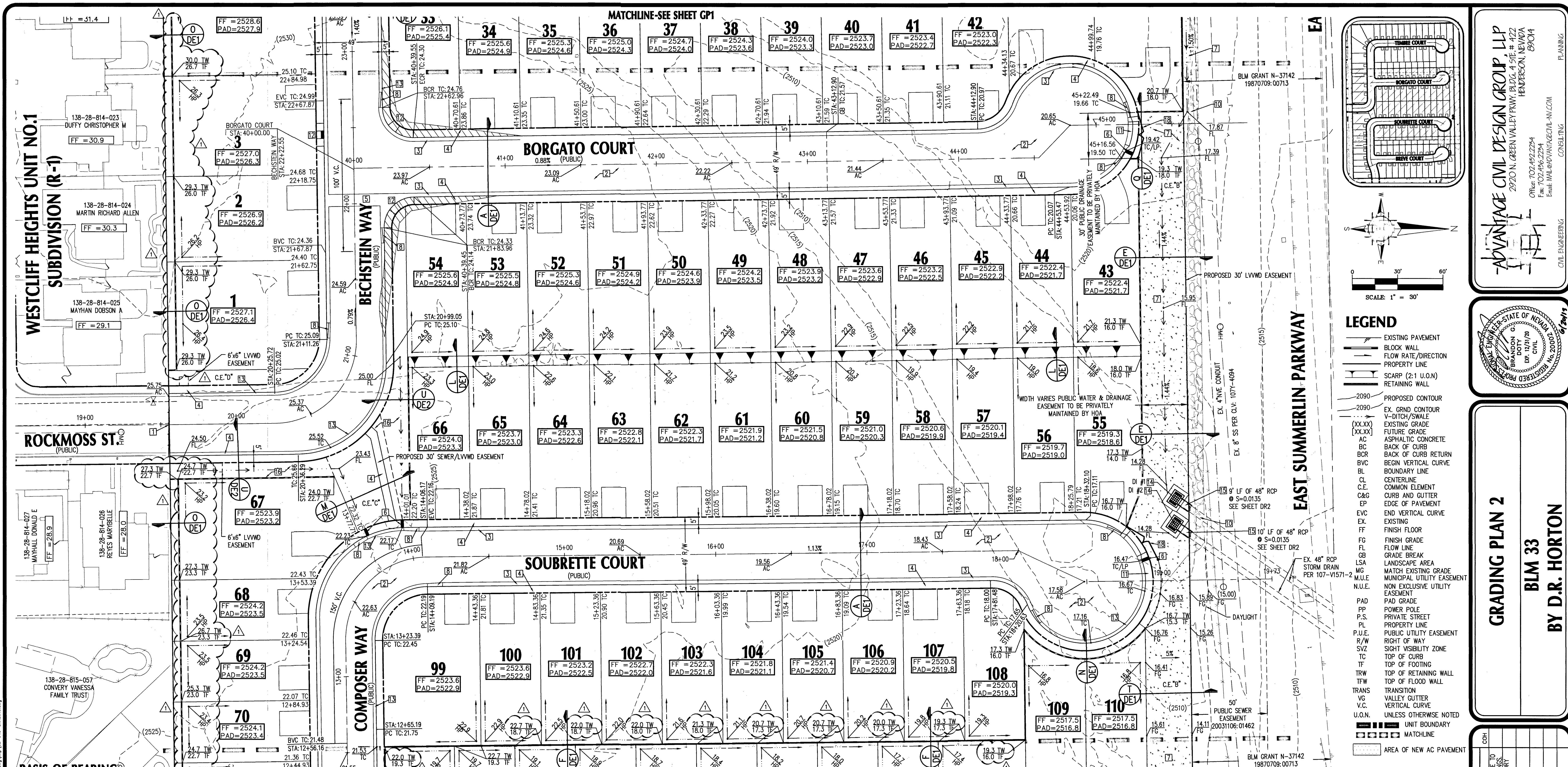
BY D.R. HORTON

NO.	DATE	REVISIONS
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JOB NUMBER: 02-043		
DRAWN BY: CW		
DESIGNED BY: CW		
CHECKED BY: BGD		
DATE: 12/2018		
GP1 5 24		

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-NEV.COM
CIVIL ENGINEERING CONSULTING



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.

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)

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

EARTHWORK VOLUMES:

RAW CUT	29,528 CY
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.

NOTE:
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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.
- 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

[Signature] 7/10/19

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135931 FIRST APPROVED DATE: 3-4-19

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.
- 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"

[Signature]
BRANDON G. DOTY P.E. #20002

6/20/2019 DATE

L18-02380 107Y5099

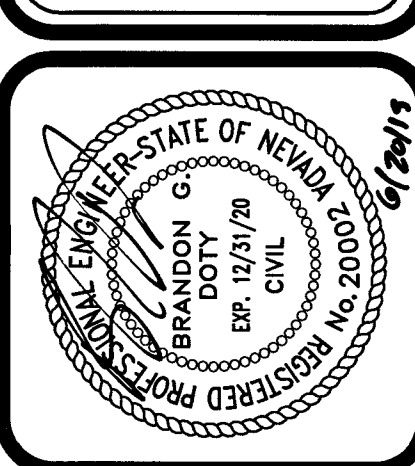
REVISIONS

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**

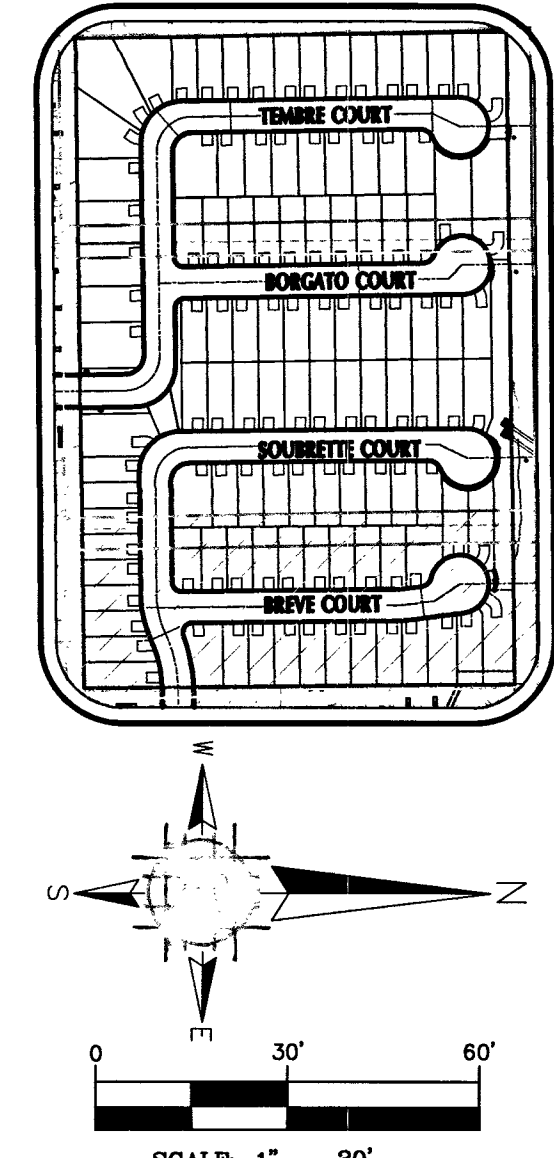
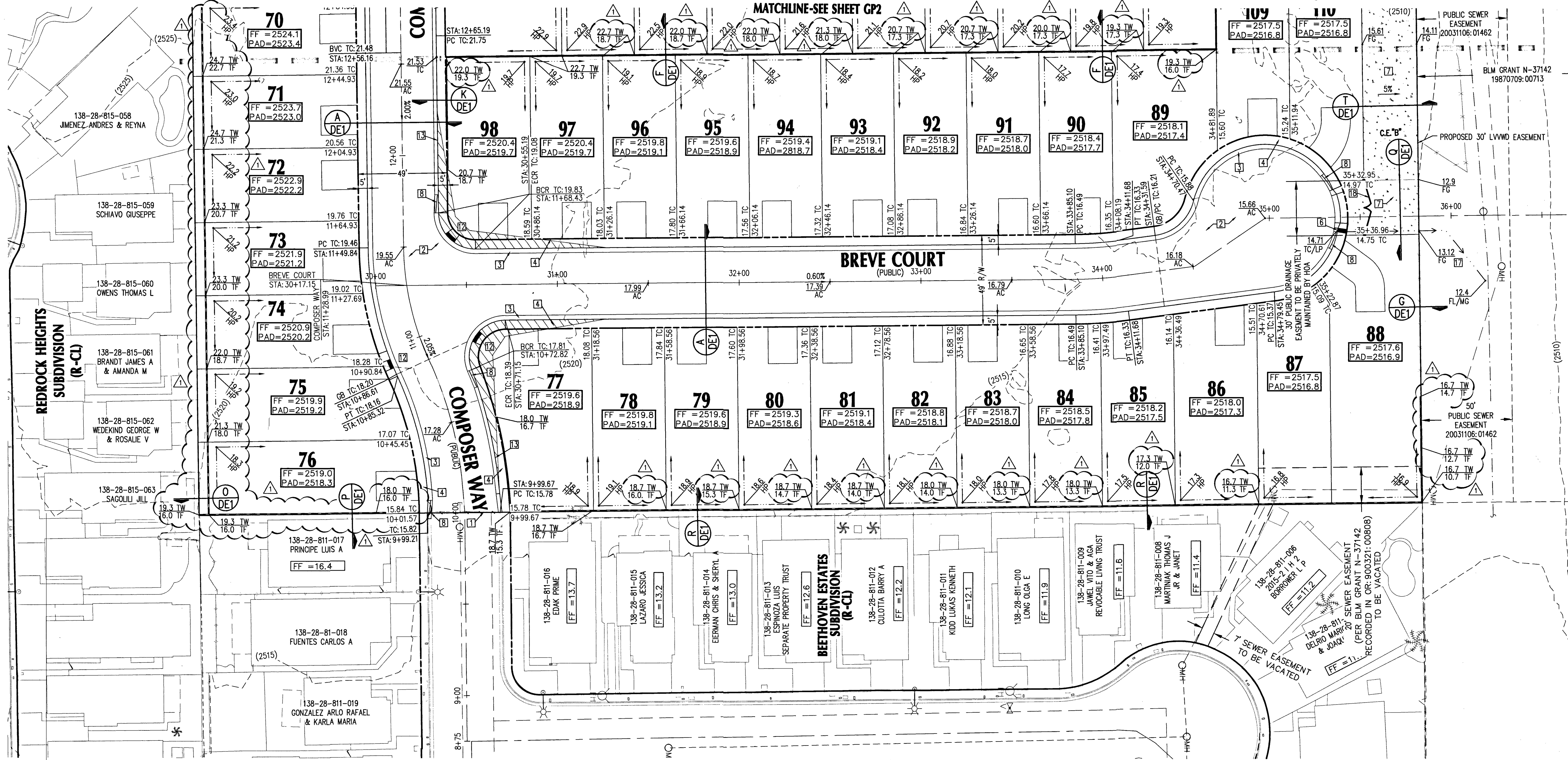
ADVANTAGE CIVIL DESIGN GROUP, LLP
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CONSULTING
CIVIL ENGINEERING



GRADING PLAN 2
BLM 33
BY D.R. HORTON

PROJECT INFORMATION

PROJECT: 159331A QS-18-28-SE



- LEGEND**
- EXISTING PAVEMENT
 - FLOW RATE/DIRECTION
 - PROPERTY LINE
 - SCARP (2:1 U.O.N)
 - RETAINING WALL
 - 2090 PROPOSED CONTOUR
 - 2090 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
 - 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
 - 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

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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" RCP 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.

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- 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
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- 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 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.
- 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

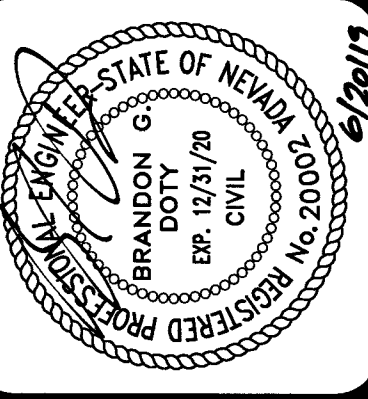
BLM 33

BY D.R. HORTON

ADVANTAGE CIVIL DESIGN GROUP, LLP
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HENDERSON, NEVADA 89014

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CIVIL ENGINEERING PLANNING

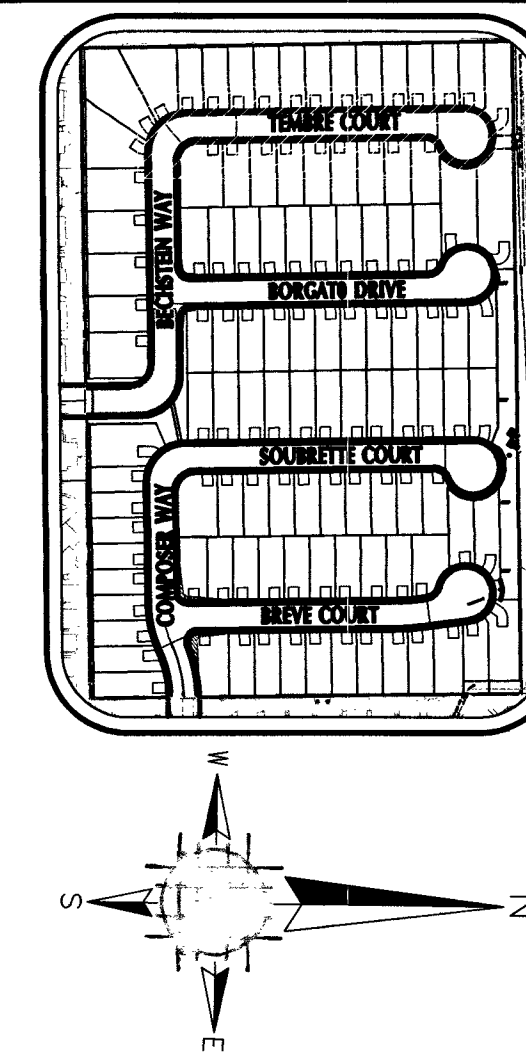
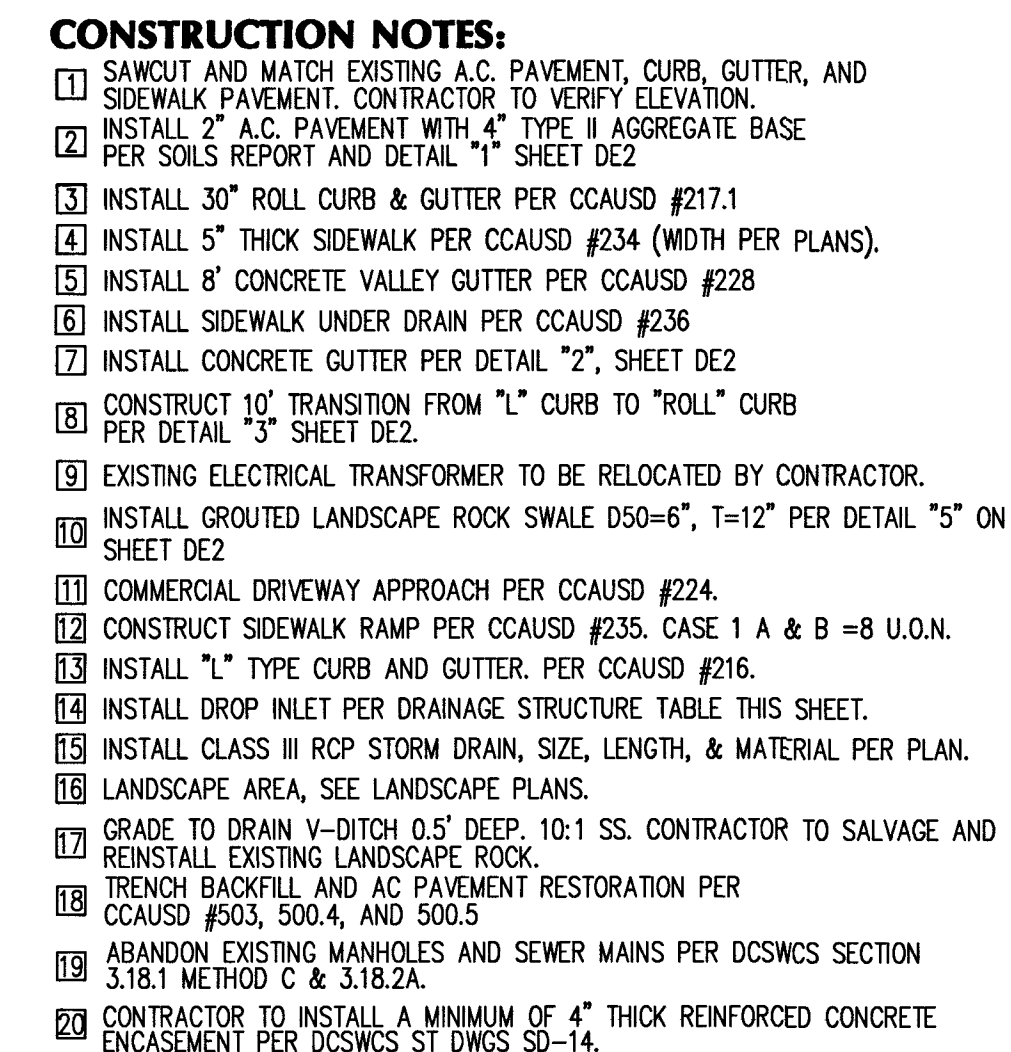


REVISIONS		NO.	DATE	DESCRIPTION
1	5/2/19			REVISED RETAINING WALLS TO REFLECT WATER MAIN DUE TO CONFLICTS. UPDATE STATIONS FOR WATERMAIN ELEVATIONS. ADDED NOTE TO REMOVE EX. SEWER STUD. ADDED DRY UTILITY PLANS.

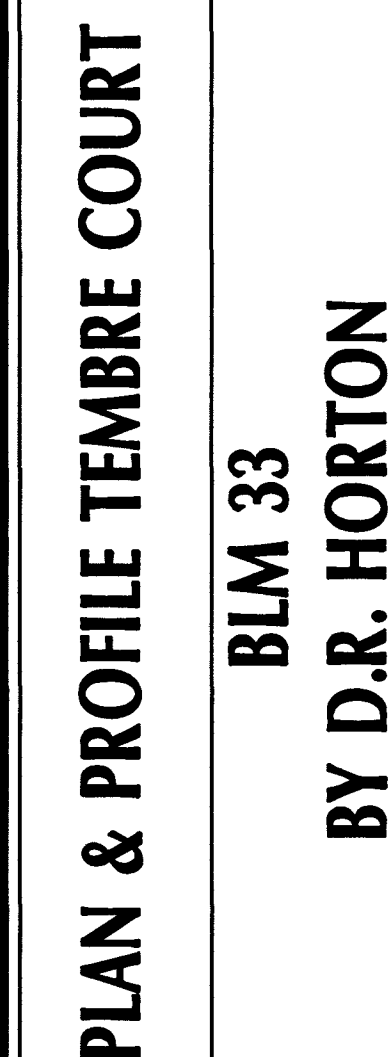
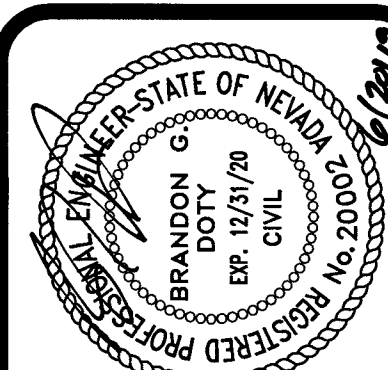
JOB NUMBER: 02-043	DRAWN BY: CW
DESIGNED BY: CW	CHECKED BY: BGD
DATE: 12/2018	
GP3	7
24	

L18-02380 107Y5099

PROJ# 135931A QS-138-28-5E



ADVANTAGE CIVIL DESIGN GROUP, LLP
2920 N. GREEN VALLEY PKWY, BLDG. 4 STE. # 422
HENRIKSON, NEVADA 89014
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Fax: 702.456.2294
Email: MAIL@ADVANTAGECIVIL-NEV.COM



<u>REVISIONS</u>						<u>DCH</u>
No.	Date	Description				
(A)	5/27/19	ADDED WATER CROSSING PER UDACS SECTION 2.22.02.C ADDED NOTE TO REMOVE EX SEWER STUD, & SNG PLANS UPDATE STATIONS FOR WATERMAIN FITTINGS				
JOB NUMBER: 02-043						
DRAWN BY: CW						
DESIGNED BY: CW						
CHECKED BY: BGD						
DATE: 12 / 18 / 2018						



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	INV
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 AT LEAST TWO (2) FEET (24) INCHES ABOVE THE SEWER LATERAL. (REF. UDACS 217.01.03)
3. GATE VALVES SHALL NOT BE LOCATED IN STREET GUTTERS, VALLEY GUTTERS, OR IN DRIVEWAYS PER UDACS FOR WATER DISTRIBUTION STANDARDS SECTION 211.01.01.
4. ALL SEWAGE AND STORM DRAIN CROSSING WATER LINES MUST CONFORM TO STANDARD 222 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 WATER 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 TO MAINTAIN MIN. DEPTH OF COVER ABOVE PAD FOOTINGS
7. ADJACENT WALL FOOTINGS WHERE DEEP SWALES OCCUR.
8. ADJ. 2500' TO ELEVATION TAGS SHOWN ON THIS GRADING PLAN.
9. DRIVEWAY SLOPES CANNOT EXCEED MAXIMUM SLOPE OF 12.5%.

APPROVED FOR CONSTRUCTION

7/18/19
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135931 DATE: 2-6-19

L18-02380 107Y5099

PP1	8/24
-----	------

PLOT DATE: 08-20-19 PLOT TIME: 11:33:22 DWG PATH: N:\Horton\043 BLM 33.dwg\mp\02-043-PWP.DWG

FAST

 Call
before you
UnderGround
1-702-432-5300
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



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.

DATE: (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 "0LV00 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:

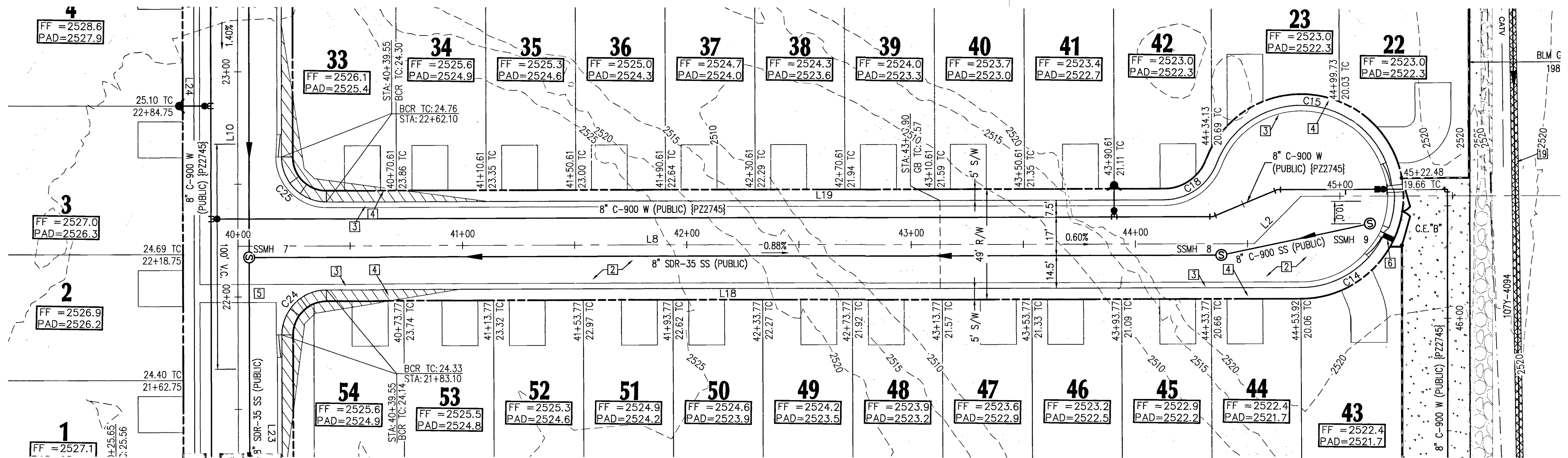
NO WALLS, FENCES, TREES, SHRUBS UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE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

NOTE:

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.



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Call 811
1-800-227-2600



BORGATO COURT (PUBLIC)-PLAN VIEW

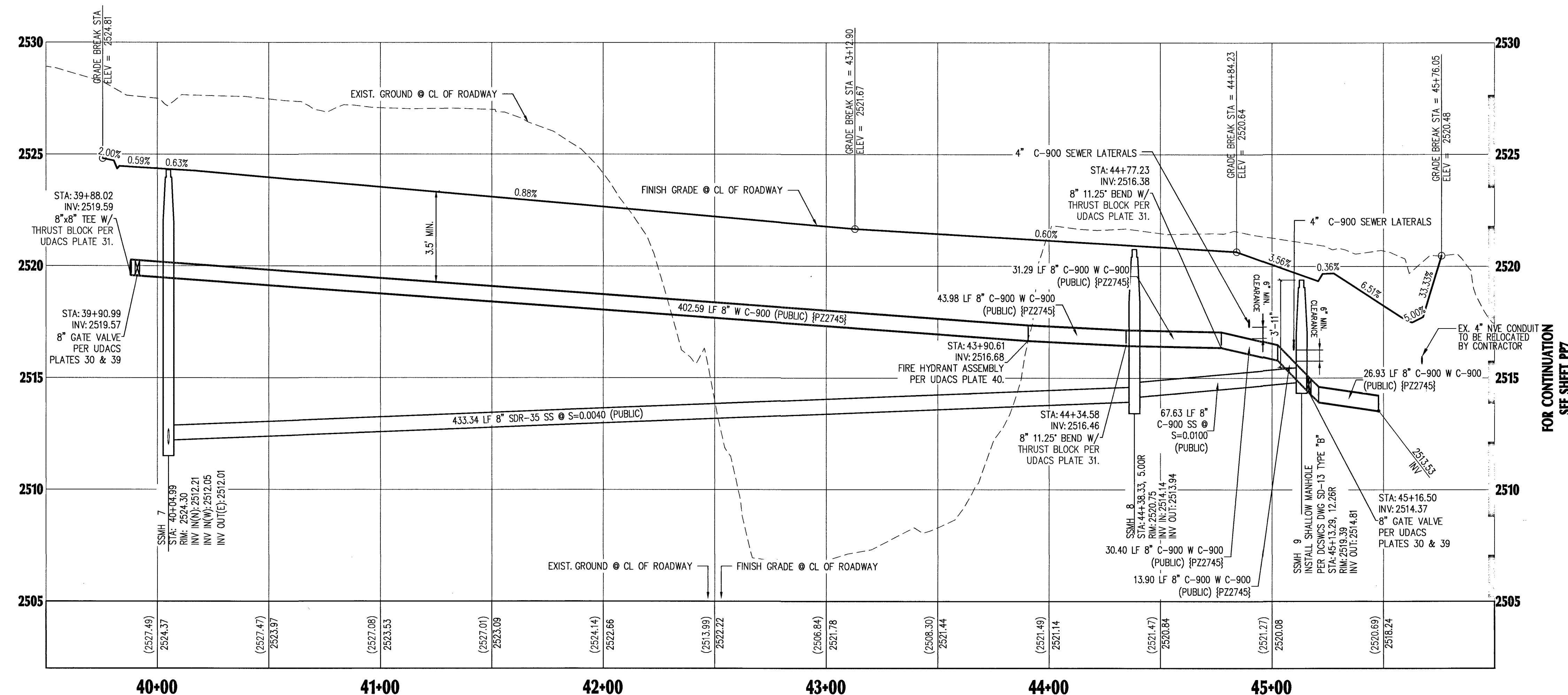
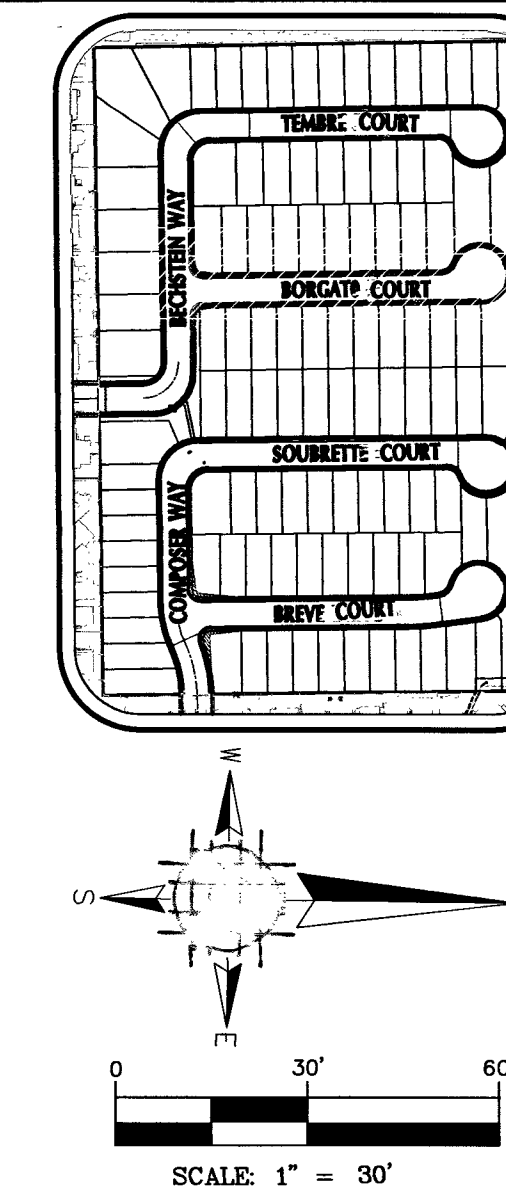
SCALE: 1"=30'

- 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 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 PMT	---
SANITARY SEWER	SS
WATER	WAT
PRIVATE	PVT
INVERT	INV
ELEVATION	ELEV
MANHOLE	MH



BORGATOCOURT (PUBLIC)-PROFILE VIEW

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

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 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.
- 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%.

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

APPROVED FOR CONSTRUCTION

Las Vegas Valley Water District Engineering Services
PROJECT NO. 135931 DATE: 02-06-19

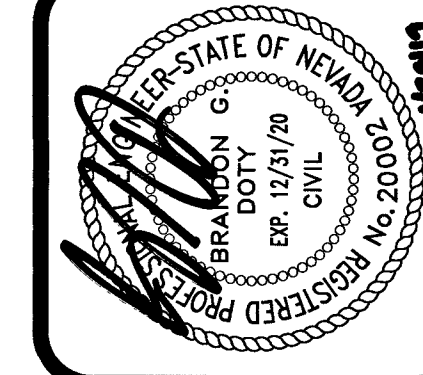
PLAN & PROFILE BORGATO COURT

BLM 33
BY D.R. HORTON

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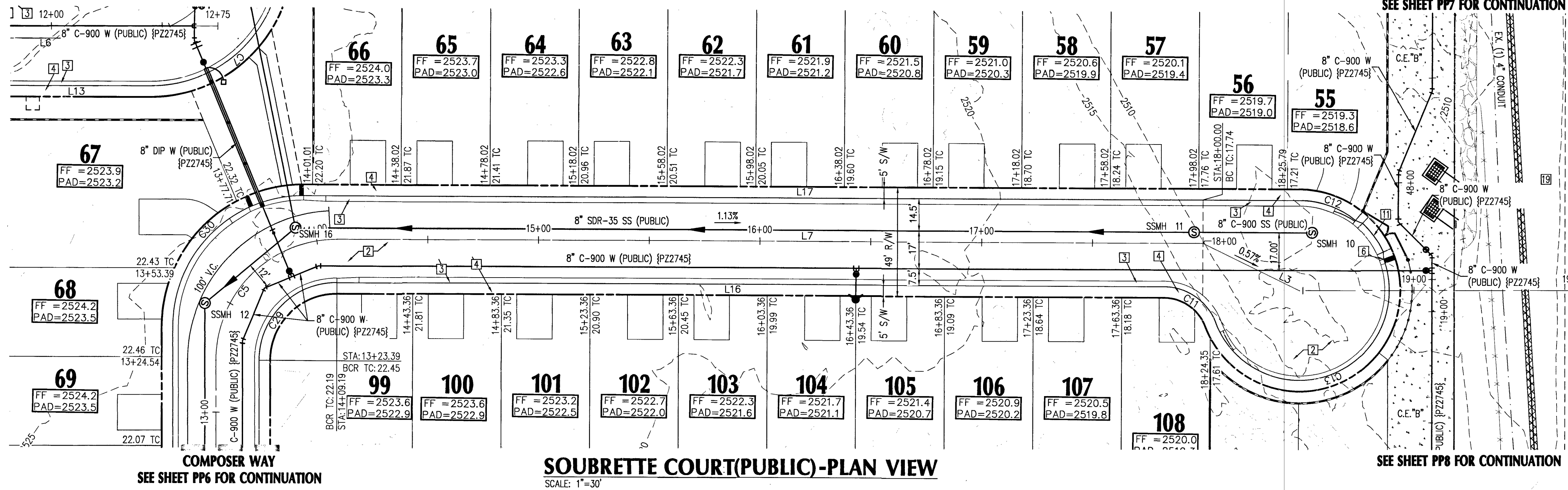
JOB NUMBER: 02-043
DRAWN BY: CW
DESIGNED BY: CW
CHECKED BY: BGD
DATE: 12/2018

PP2 9 24

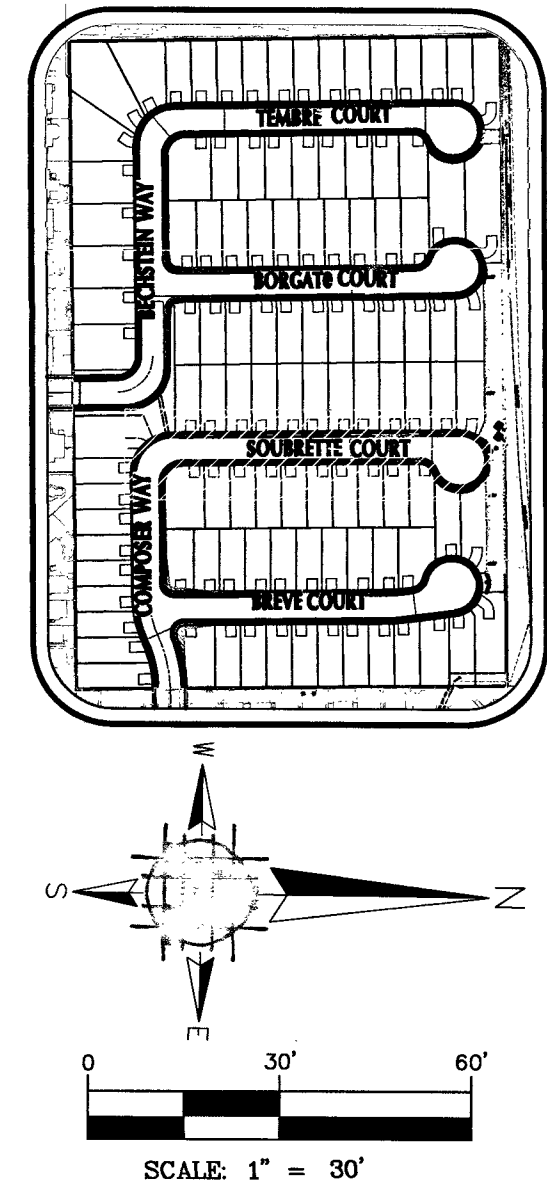


ADVANTAGE CIVIL DESIGN GROUP, LLP
2970 N. GREEN VALLEY HWY, BLDG. 4 STE. # 422
HENDERSON, NEVADA 89014
Office: 702.452.2254
Fax: 702.456.2224
Email: MAIL@ADVANTAGECIVIL-LLP.COM
CONSULTING
PLANNING

L18-02380 107V5099



- 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.
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 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.



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

UTILITY NOTES:

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7. ADD 2500' TO ELEVATION TAGS SHOWN ON THIS GRADING PLAN.
8. 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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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)



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UnderGround

1-702-432-5300



1-800-227-2600



1-702-227-2929

PLAN & PROFILE SOUBRETTE COURT

BLM 33

BY D.R. HORTON

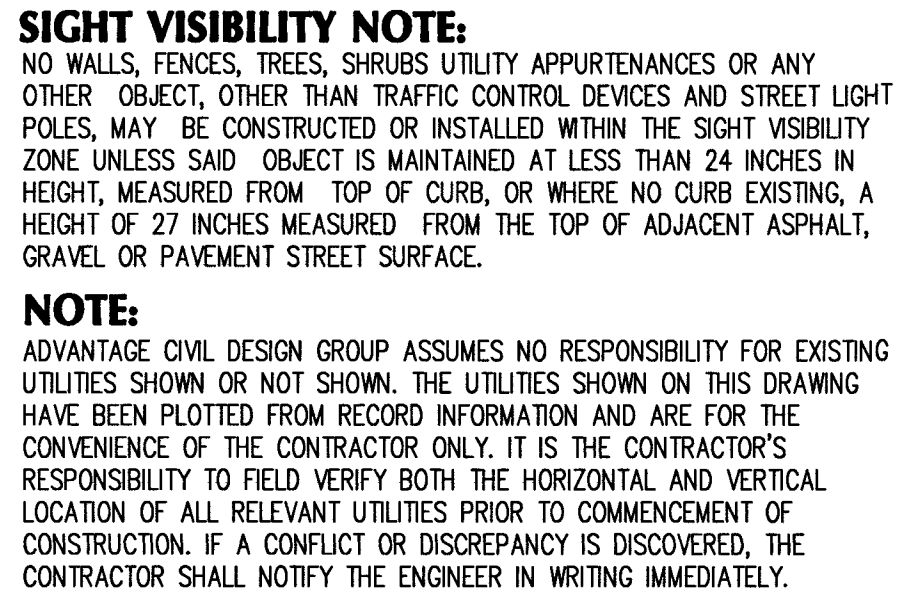
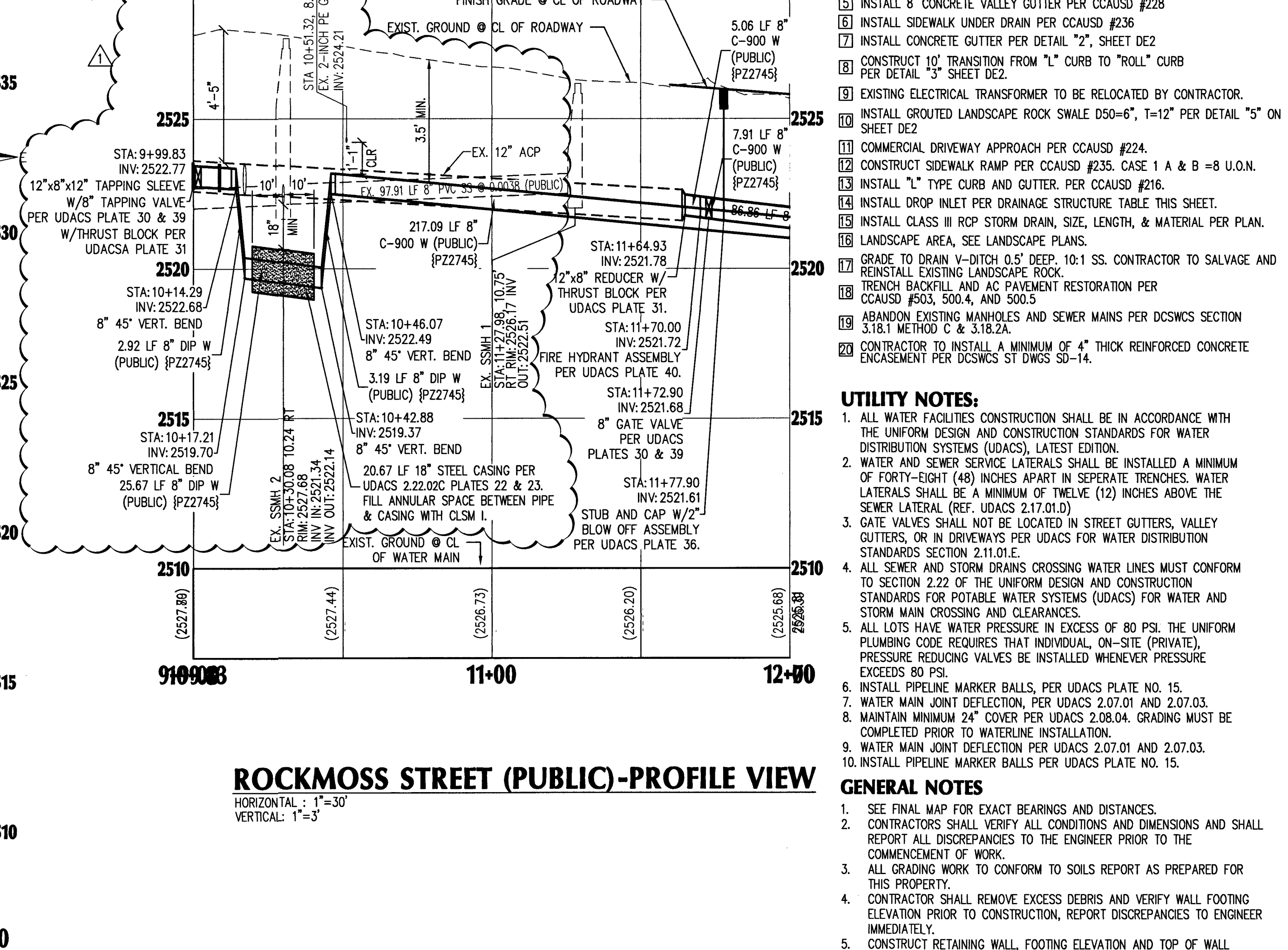
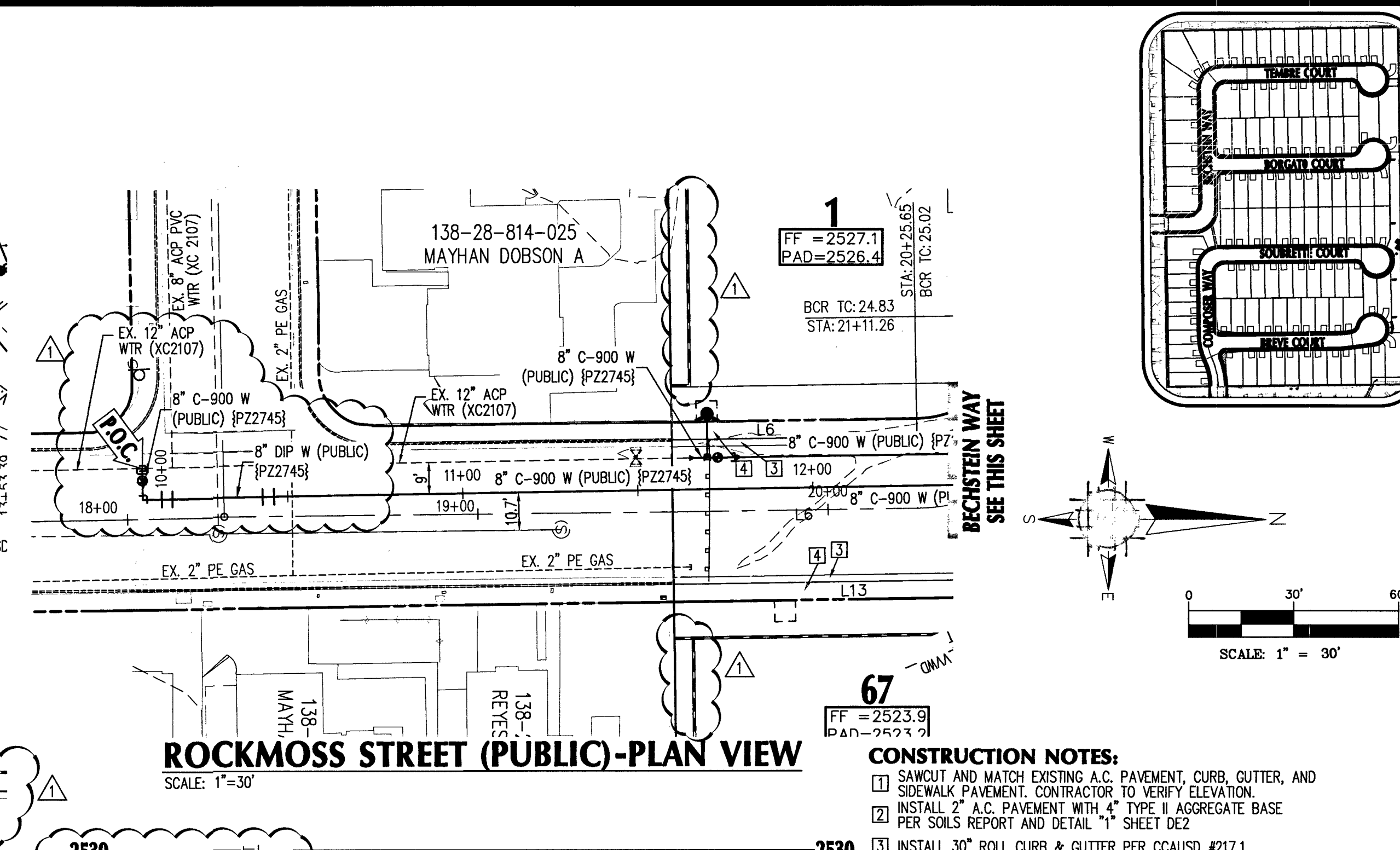
NO.	DATE	REVISIONS	DESCRIPTION

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

PP3 10 24

L18-02380 107V5099

PROJ# 135931A Q3: 13-28-SE



6. CONJUNCTION 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

[Signature] 7/8/19

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135921 DATE: 2-6-19

L18-02380 1074509

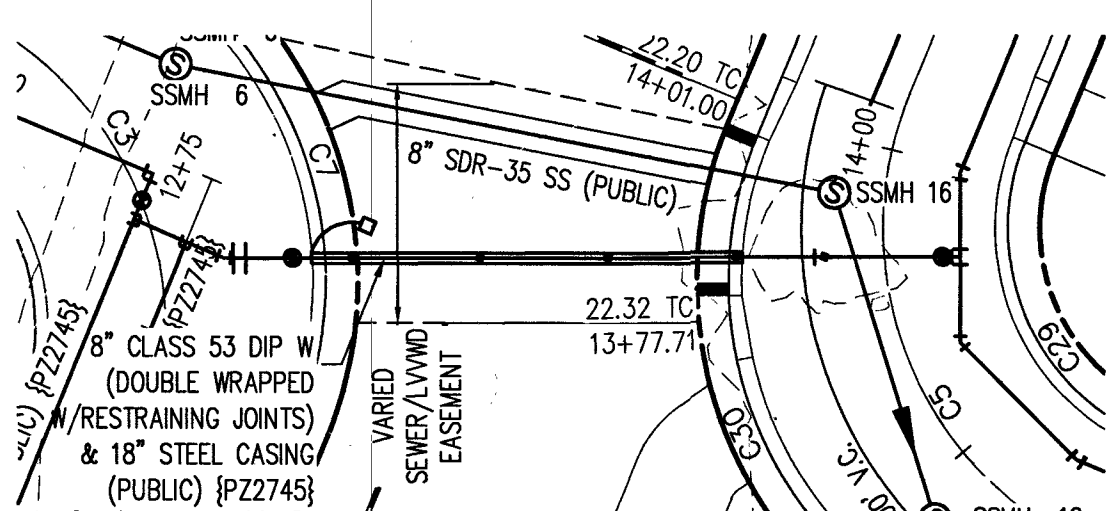
REVISIONS		COH
NO.	DATE	DESCRIPTION
1	5/2/19	ADDED WATER CROSSING PER UDACS SECTION 2.22.02.C
		ADDED NOTE TO REMOVE EX. SEWER STUB, & S/WG PLANS
		UPDATE STATIONS FOR WATERMAIN FITTINGS

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

PP5

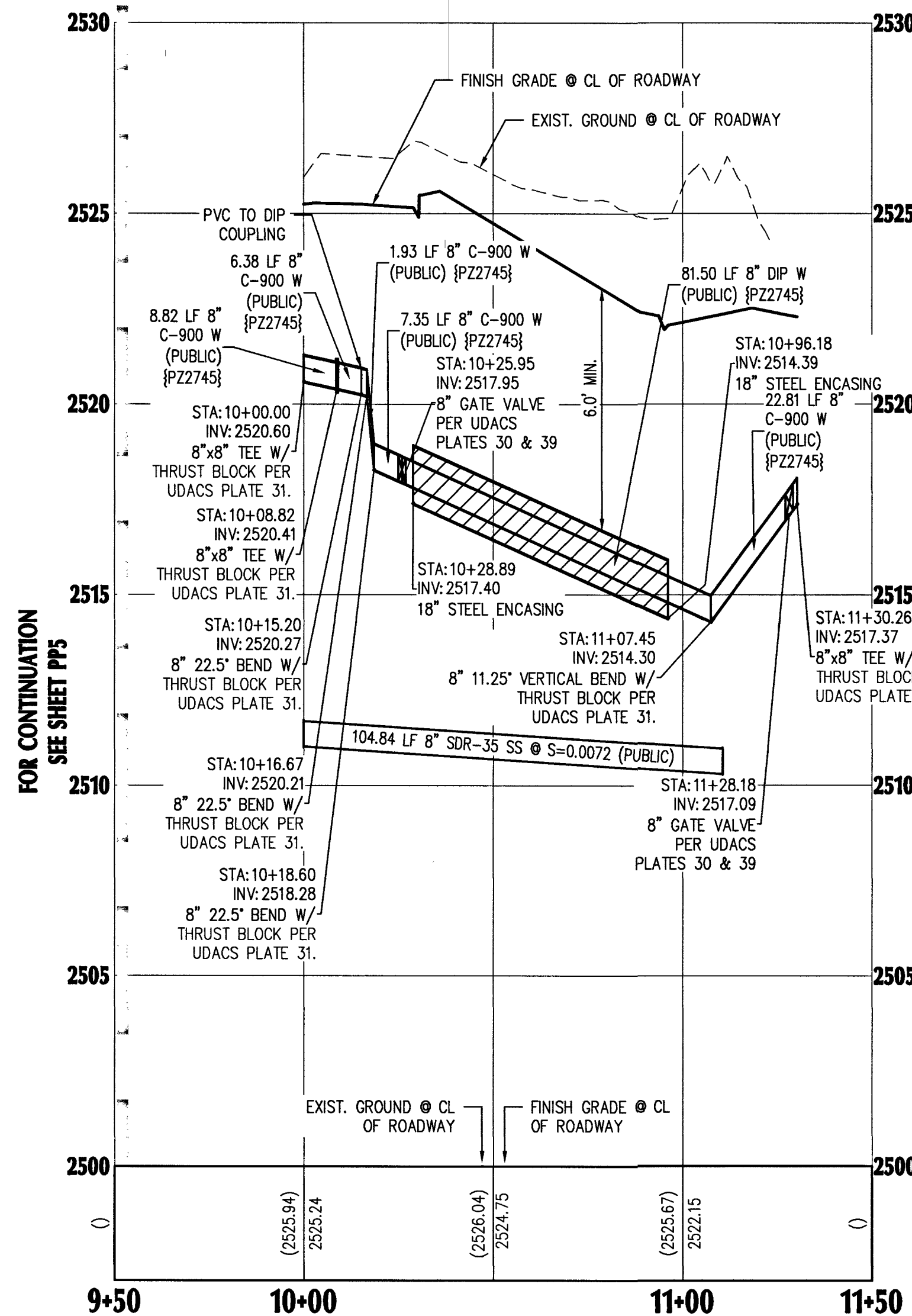
12

24



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.

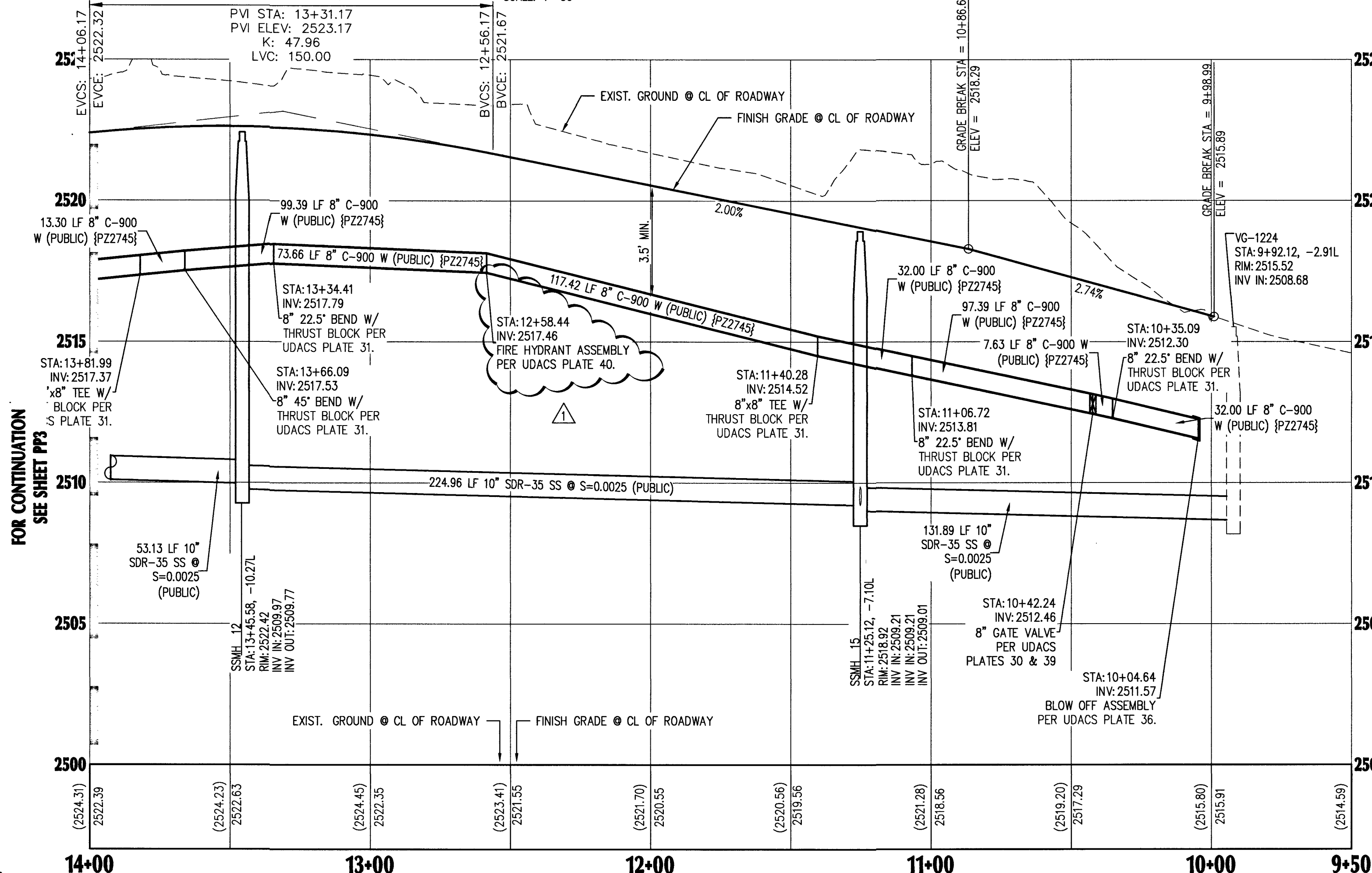
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FALSE EASTING: 100,000 METERS
STANDARD PARALLEL SCALE: 1.0001
LINEAR UNIT: US SURVEY FOOT (SFT)

BENCHMARK

COMPOSER WAY (PUBLIC)-PLAN VIEW

SCALE: 1"=30'



COMPOSER WAY (PUBLIC)-PROFILE VIEW

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

SIGHT VISIBILITY NOTE:

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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.
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UTILITY NOTES:

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7. WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03.
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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.R. HORTON
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	2/7/19	ADD WATER CROSSING PER UDACS SECTION 2.22.02.C	
2		ADD NOTE TO REMOVE EX. SEWER STUB, & SWG PLANS	
3		UPDATE STATIONS FOR WATERMAIN FITTINGS	

JOB NUMBER: 02-043

DRAWN BY: CW

DESIGNED BY: D.R. HORTON

CHECKED BY: BGD

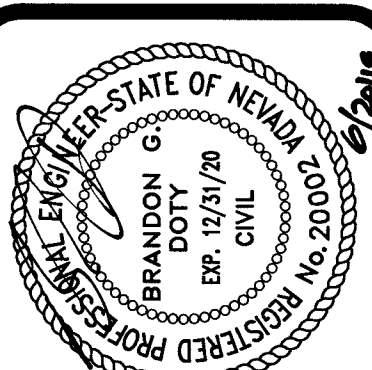
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PP6

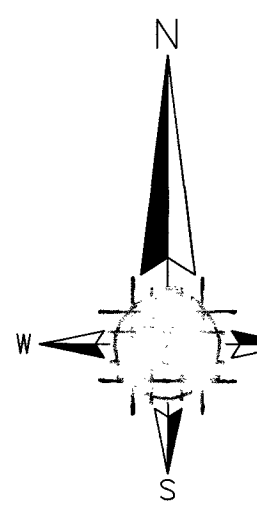
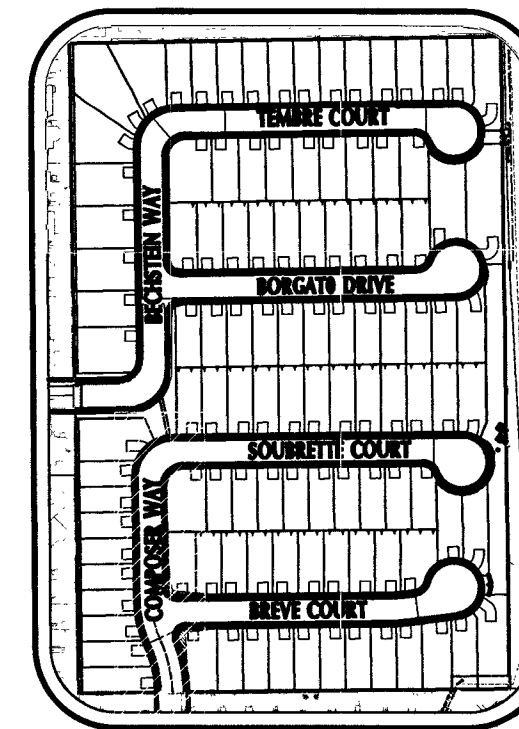
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PROJ.#: 135931A QS: 138-26-SE



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CONSULTING
CIVIL ENGINEERING
PLANNING



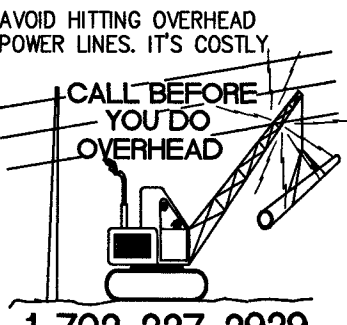
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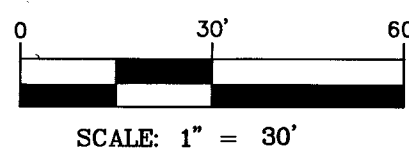
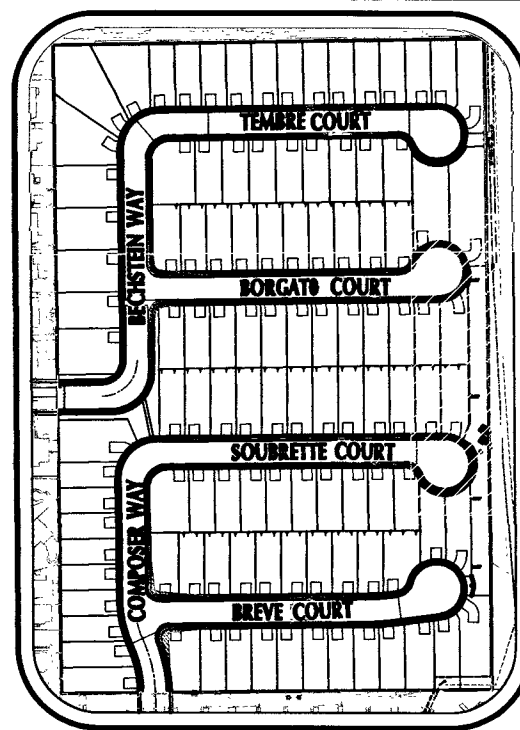
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- 1 SAWCUT AND MATCH EXISTING A.C. PAVEMENT, CURB, GUTTER, AND SIDEWALK PAVEMENT. CONTRACTOR TO VERIFY ELEVATION.
- 2 INSTALL 2" A.C. PAVEMENT WITH 4" TYPE II AGGREGATE BASE PER SOILS REPORT AND DETAIL "1" SHEET D62
- 3 INSTALL 30" ROLL CURB & GUTTER 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 RCP STORM DRAIN, SIZE, LENGTH, & MATERIAL PER PLAN.
- 16 LANDSCAPE AREA, SEE LANDSCAPE PLANS.
- 17 GRADE TO DRAIN V-DITCH 05' DEEP, 10:1 S.S. CONTRACTOR TO SALVAGE AND REINSTALL EXISTING LANDSCAPE.
- 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 BASEMENT PER DCSWCS SECTION 501-4

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

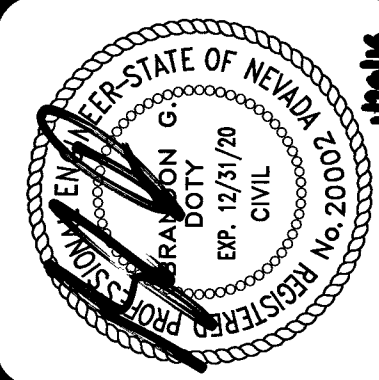
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LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135931 DATE: 02.06.19

L18-02380 107V5090

BY D.R. HORTON



2920 N. GREEN VALLEY PKWY, BLDG. 4 STE. # 422
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PROJ. # 135931A QS-138 28-SE

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

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Call
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OR

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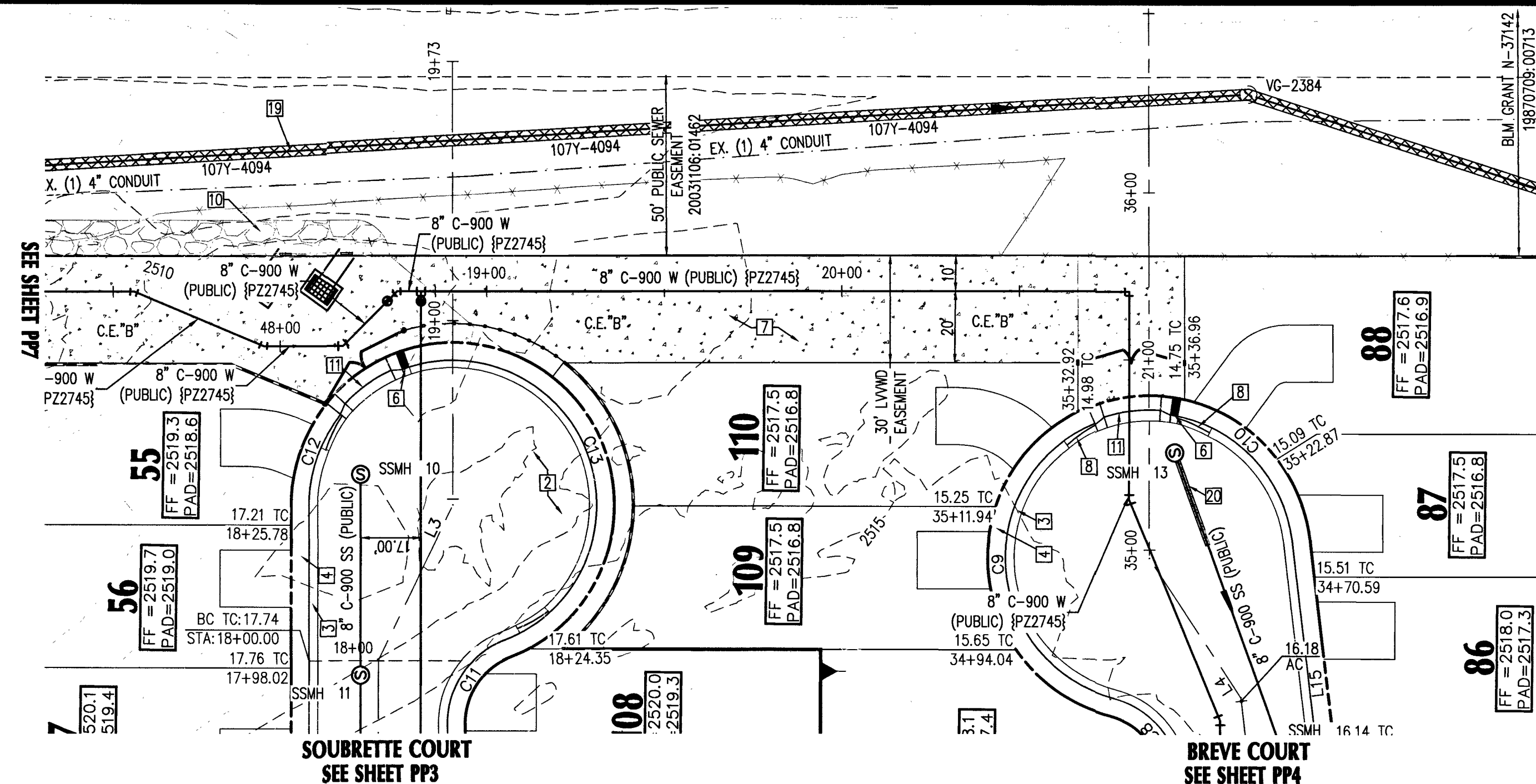
AVOID HITTING OVERHEAD
POWER LINES. IT'S COSTLY.

**CALL BEFORE
YOU DO
OVERHEAD**

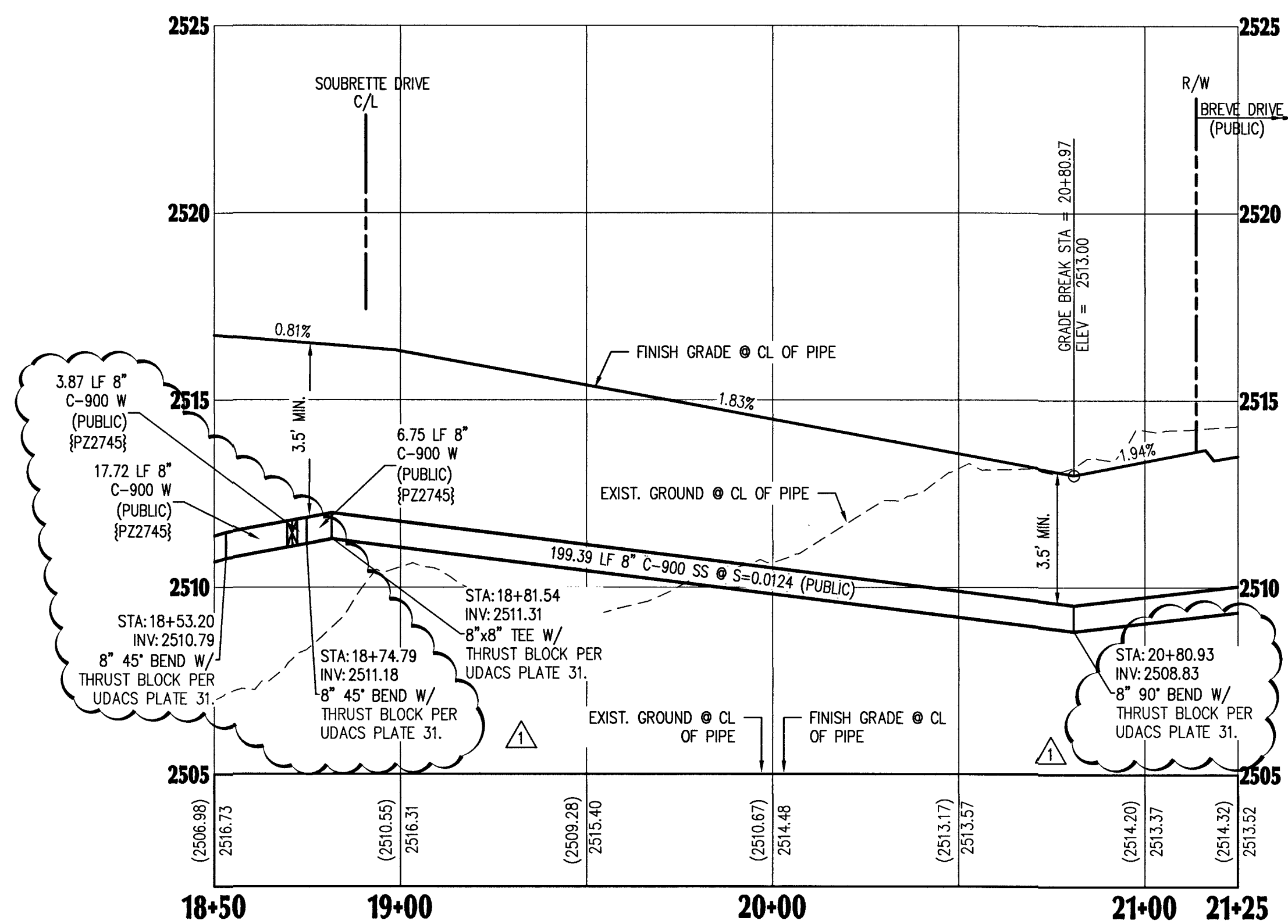
1-702-227-2929

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:

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APPROVED FOR CONSTRUCTION

DESIGNED BY: D.R. 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	

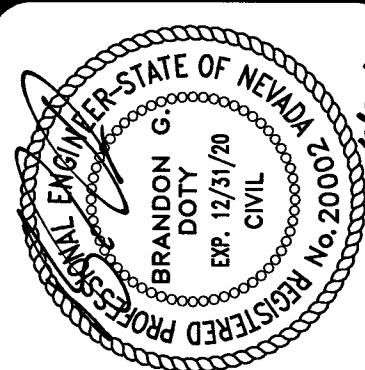
JOB NUMBER: 02-043
DRAWN BY: CW
DESIGNED BY: CW
CHECKED BY: BGD
DATE: 12/2018

PP8

15

24

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HENDERSON, NEVADA 89014
Office: 702.452.2294
Fax: 702.456.2294
Email: MAIL@ADVANTAGECIVIL.COM
CONSULTING



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:

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chaffin PLOT DATE: 06-20-19 PLOT TIME: 11:35:22 DWG PATH: K:\Vegas\UAS BLM 33\wp\102-043-PP9-official.dwg

BASIS OF BEARING
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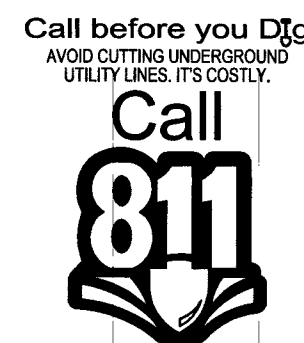
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777.844 METERS

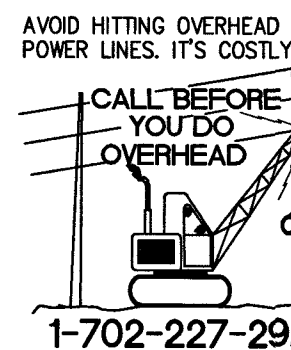
CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007)
BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)



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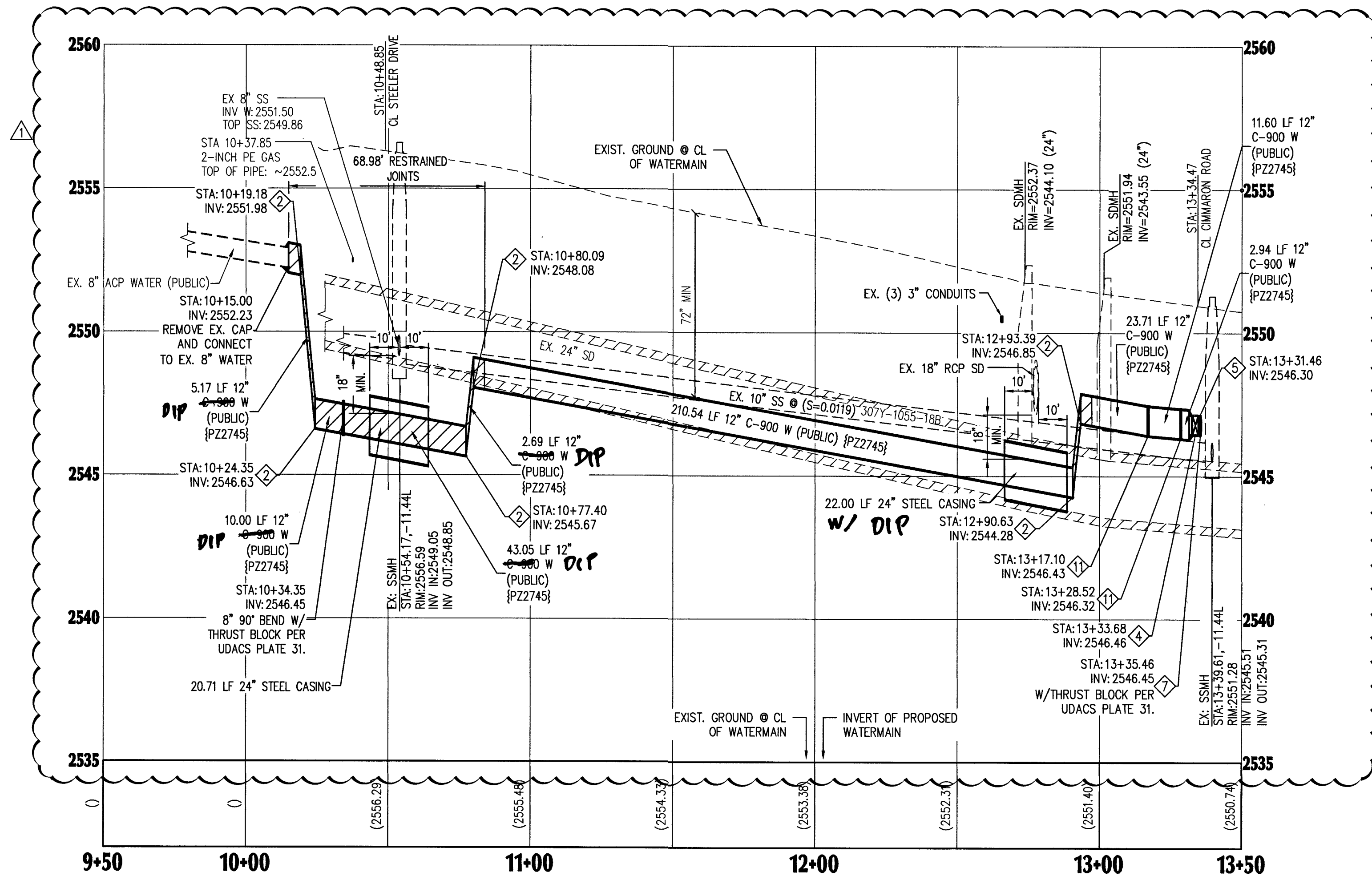


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LOCATION OF ALL RELEVANT UTILITIES PRIOR TO COMMENCEMENT OF
CONSTRUCTION. IF A CONFLICT OR DISCREPANCY IS DISCOVERED, THE
CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IMMEDIATELY.

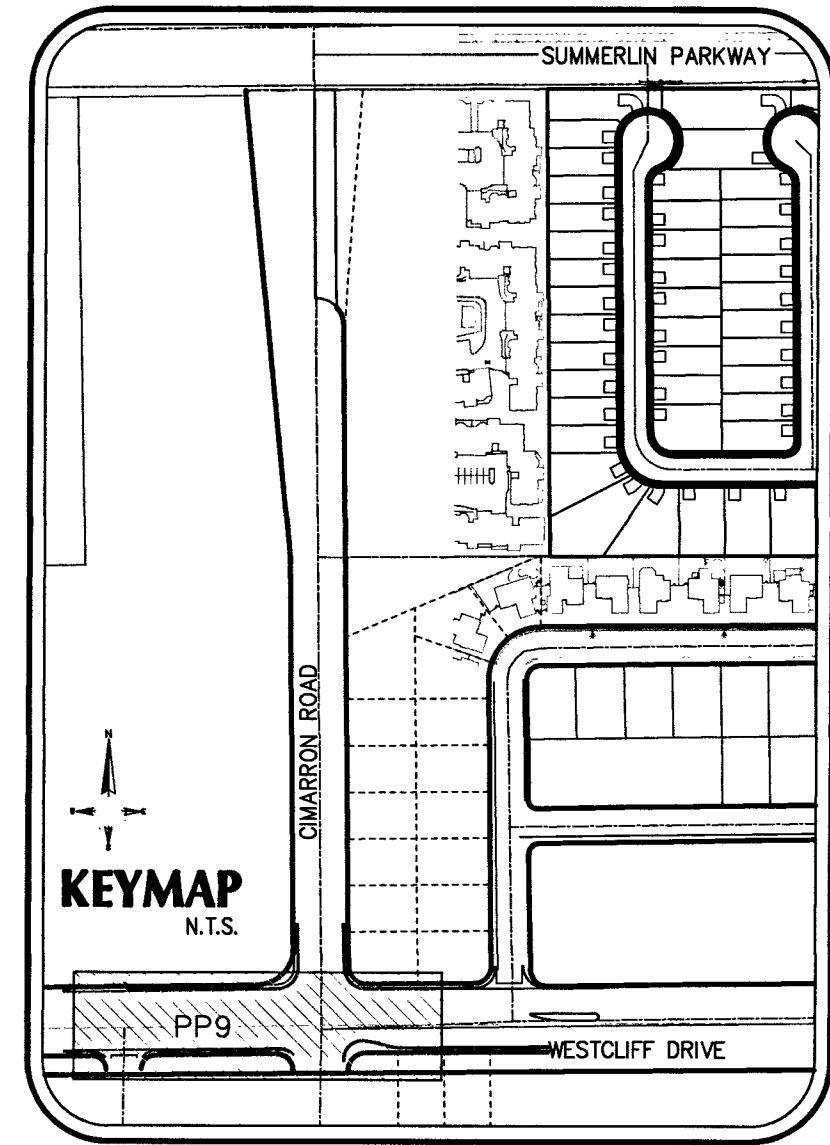
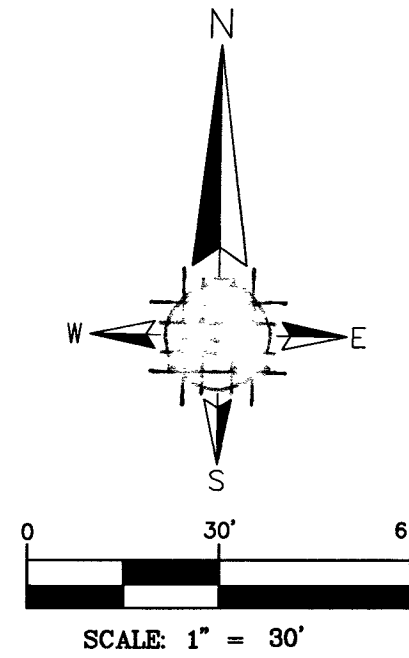
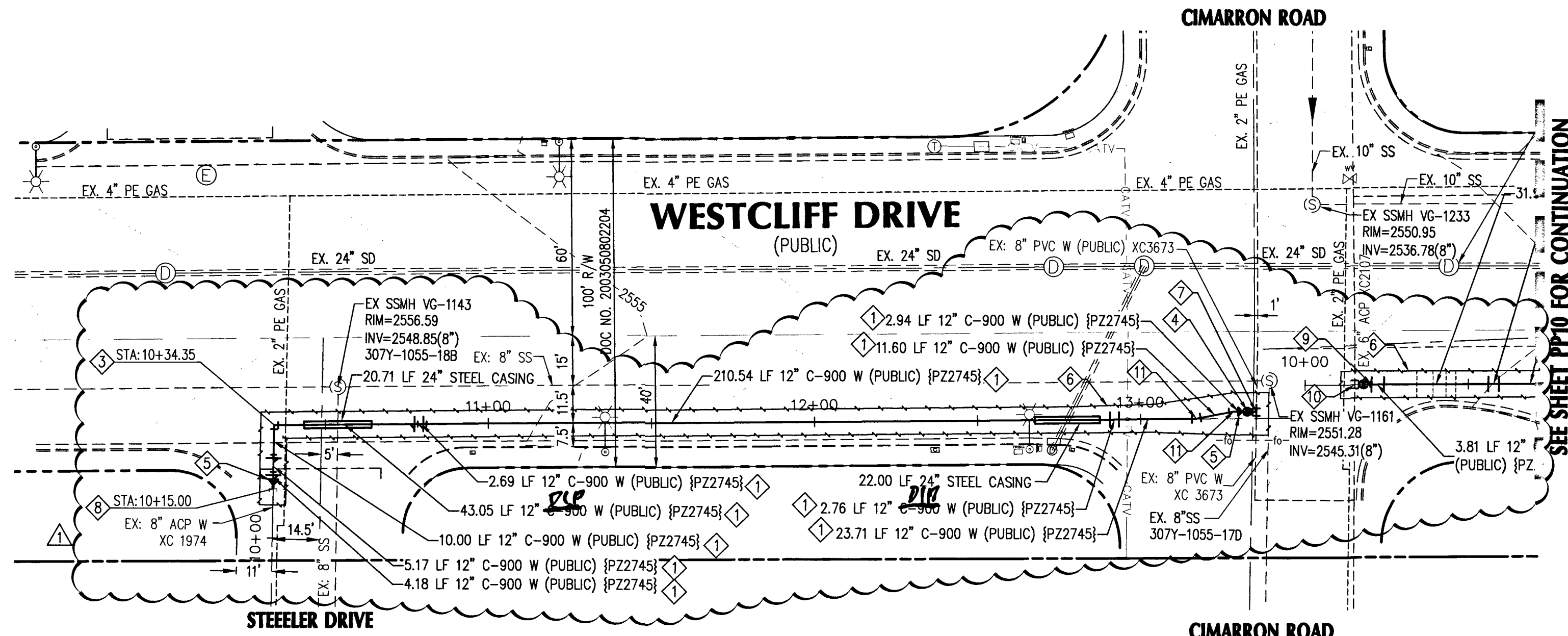
WESTCLIFF DRIVE (PUBLIC)-PROFILE VIEW

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 PAVT	---
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.
7. AGGREGATE BASE PER CCASD #503.
8. INSTALL 8"x8" TAPPING SLEEVE W/TAPPING VALVE PER UDACS 2.24.01 A, PLATE 30 & 39.
9. REMOVE CAP AND BLOWOFF PER UDACS PLATE #36 AND CONNECT TO EXISTING MAIN.
10. INSTALL 12"x6" REDUCER W/ THRUST BLOCK PER UDACS PLATE 31.
11. INSTALL 6"x6" TAPPING SLEEVE W/TAPPING VALVE PER UDACS 2.24.01 A, PLATE 30 & 39.
12. 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).
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.

NOTES

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

Southwest Gas Corporation
DATE: 7/10/19

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APPROVED FOR CONSTRUCTION

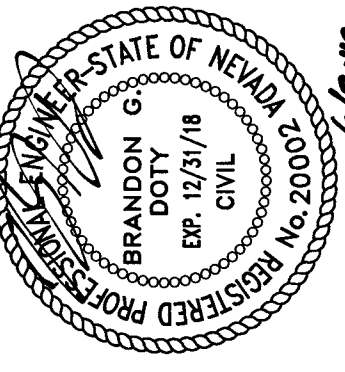
DESIGNED BY: DSH
CHECKED BY: BGD
DATE: 7/8/19
PROJECT NO.: 135931 DATE: 7-6-19

L18-02380 107Y5099

PROP. 12" WATERLINE - WESTCLIFF DR.

BLM 33

BY D.R. HORTON



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

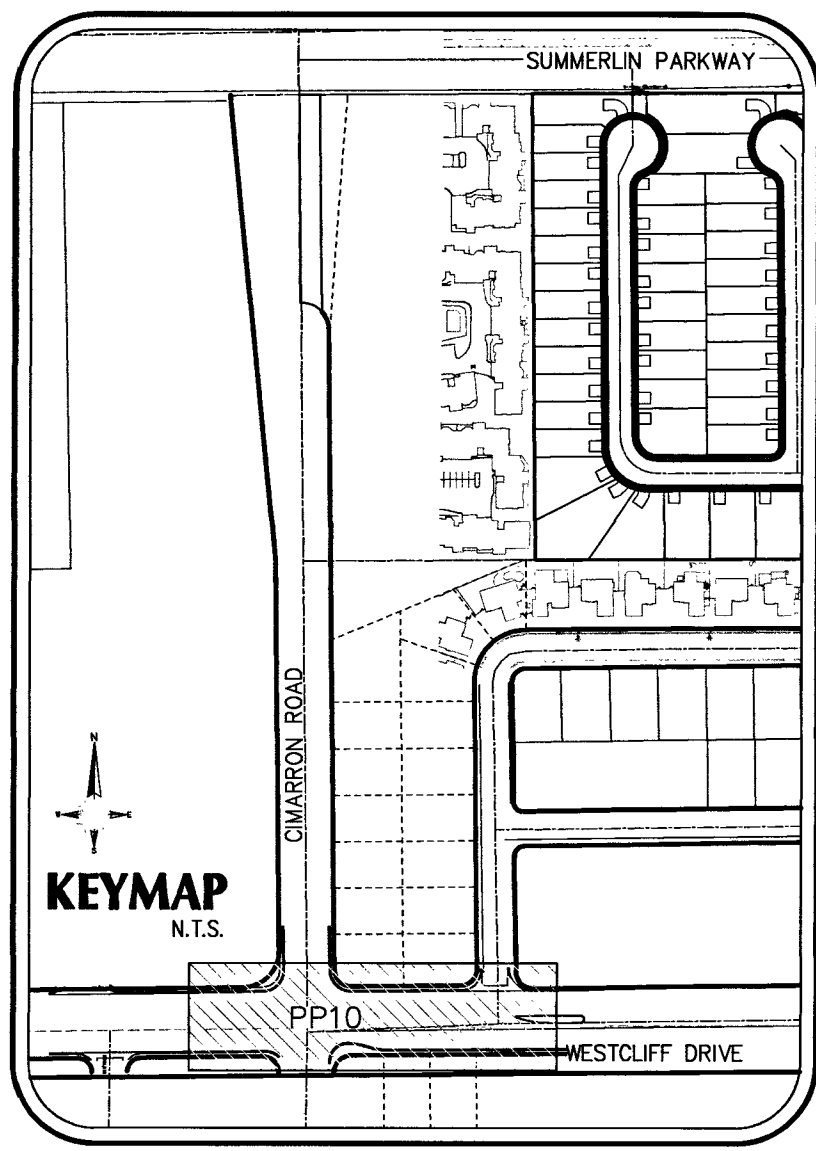
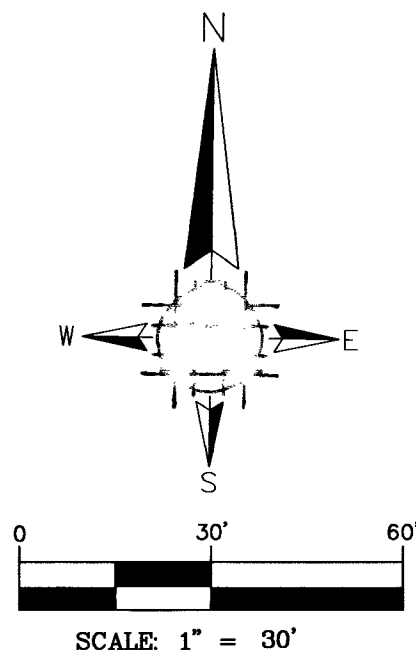
NO.	DATE	DESCRIPTION
1	5/2/19	REVISED RETAINING WALLS, REVISED WATER MAIN DUE TO CONFLICTS, UPDATE STATIONS FOR WATERMAIN ELEVATIONS, NOTE TO REMOVE EX. SEWER STUB, ADDED DRY UTILITY PLANS.

REVISIONS

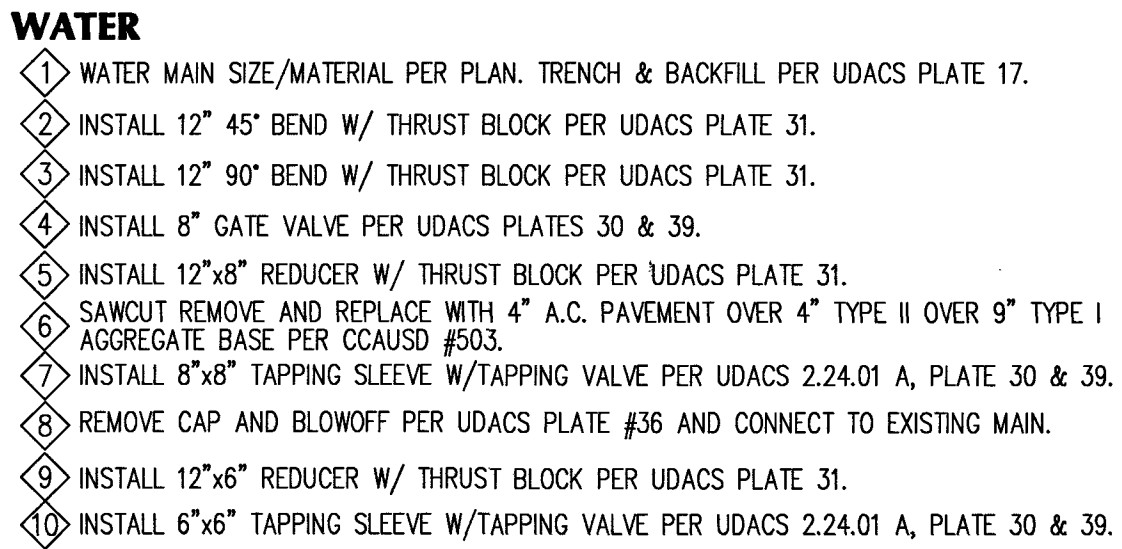
JOB NUMBER: 02-043
DRAWN BY: CW
DESIGNED BY: CW
CHECKED BY: BGD
DATE: 12/2018

PP9 16 24

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



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 PYMT	-----
SANITARY SEWER	SS
WATER	WAT
PRIVATE	PVT
INVERT	INV
ELEVATION	ELEV
MANHOLE	MH
BACKWATER VALVE	BWV
PRESSURE REDUCING VALVE	PRV



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

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 (UDACS 2.11.0.1).
3. GATE VALVES SHALL NOT BE LOCATED IN STREET GUTTERS, VALLEY GUTTERS, OR IN DRIVEWAYS PER UDACS FOR WATER DISTRIBUTION STANDARDS SECTION 2.11.0.1E.
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 AN INSTALLED, 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.

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

L18-02380 107V5099

BLM 33
BY D.R. HORTON

-ADVANTAGE CIVIL DESIGN GROUP, LLP
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CIVIL ENGINEERING CONSULTING PLANNING

PPO #135931A QS-136-28-SF



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1-800-227-2600



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 CONSIDERED WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

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

ZONE: LAS VEGAS ZONE
STANDARD PARALLEL: 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 "OLV00 2854" BEING A RIVET & PLATE IN TOP OF CURB AT NW CORNER OF WESTCLIFF & CIMARRON.

ELEVATION: 2551.98 FEET
77.844 METERS

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007)
BASED UPON NORTH AMERICAN DATUM OF 1988 (NAD'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 UDCS 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-FOUR (48) INCHES APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF TWELVE (12) INCHES ABOVE THE SEWER LATERAL (REF. UDCS 2.17.01.D)
- GATE VALVES SHALL NOT BE LOCATED IN STREET CUTTERS, VALLEY CUTTERS, OR IN DRIVEWAYS PER UDCS 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 LVWD FACILITIES.

NOTE:

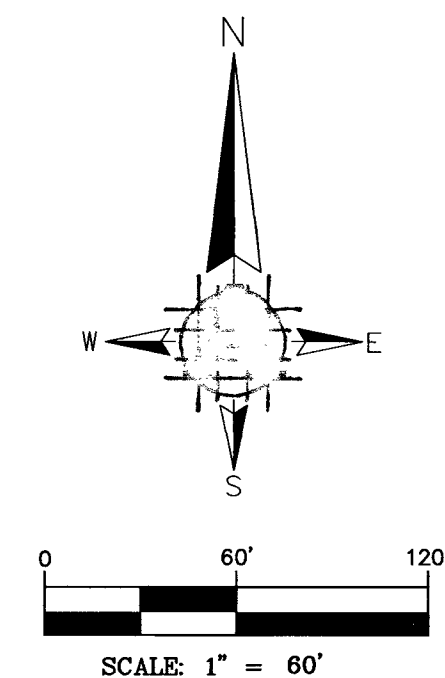
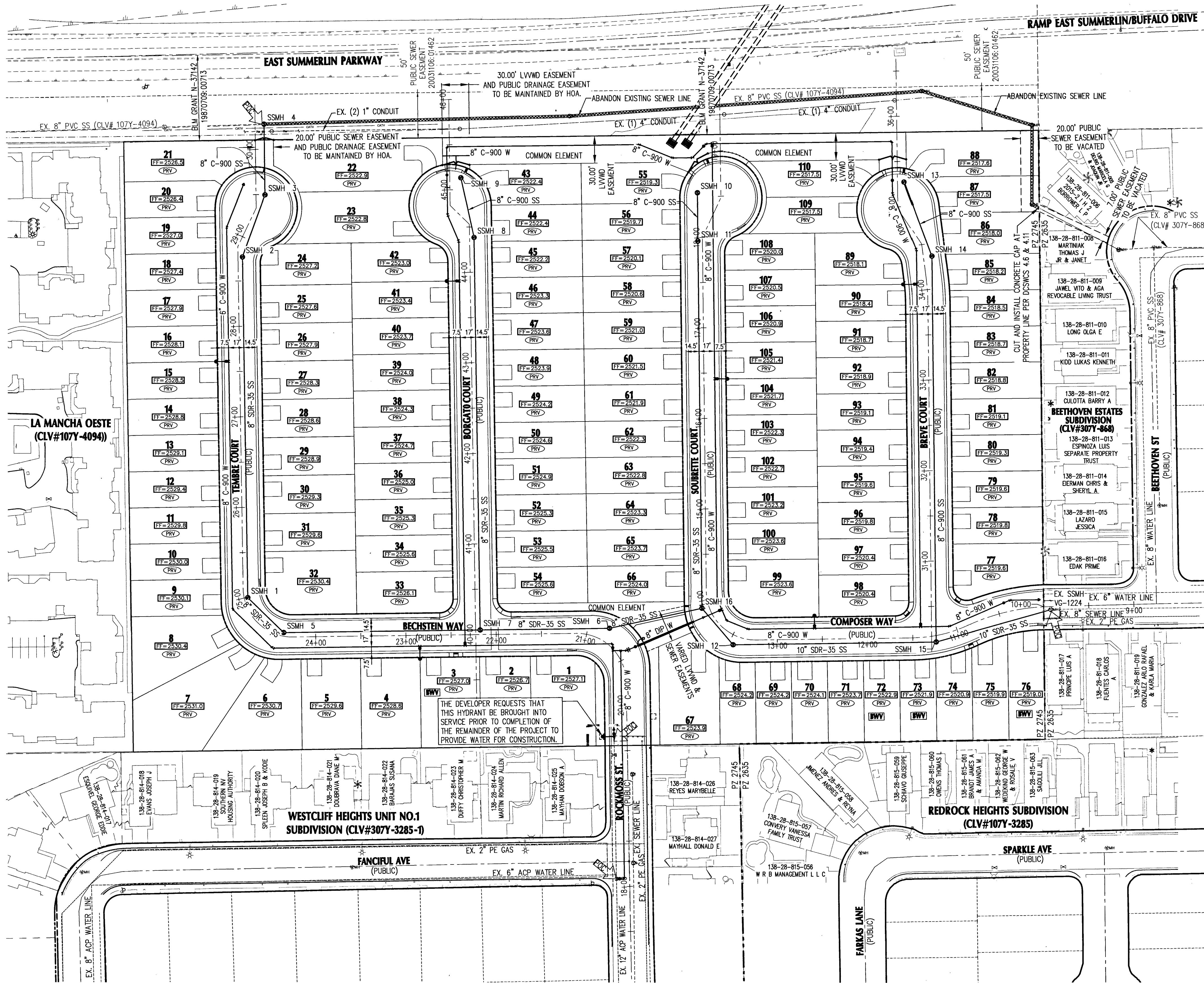
THIS PLAN IS FOR REFERENCE ONLY AND IS FOR CONVENIENCE OF THE CITY ENTITY REVIEWERS AND CONTRACTOR. PLEASE REFER TO THE UTILITY PLANS FOR ACTUAL CONSTRUCTION SPECIFICATIONS.

NOTE:

SEE UPI - UP3 FOR CONSTRUCTION NOTE CALL OUTS.

NOTE:

SEE SHEET 2 FOR TOTAL PROJECT QUANTITIES AND GENERAL NOTES.



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 SAWCUT	
EXISTING EDGE PWT	
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
FOOTAGE: 3,120

LARGEST AREA BETWEEN
4-HOUR AREA SEPARATION
WALLS: N/A

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 = 27,500 GPD
27,500 GPD = 0.0275 MGD
0.0275 MGD * 3.3 (PEAK FACTOR) = 0.09075 MGD
+ ADDITIONAL WET-WEATHER FLOW ALLOWANCE (25%)
= 0.11344 MGD

APPROVALS

Southwest Gas Corporation

1-31-19

DATE

CITY OF LAS VEGAS FIRE DEPARTMENT

APPROVAL OF THESE PLANS SHALL NOT BE CONSIDERED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS. THE FIELD LOCATION AND DEPTH OF ALL SOUTHWEST GAS FACILITIES SHOULD BE VERIFIED.

APPROVED FOR CONSTRUCTION

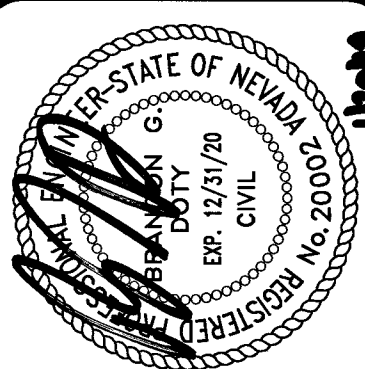
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NO. 135831 DATE 02-01-19
LVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 26 GPM

L18-02380 107V5099

MASTER UTILITY PLAN

BLM 33

BY D.R. HORTON



ADVANTAGE CIVIL DESIGN GROUP, LLP
2970 N. GREEN VALLEY PKWY, BLDG. 4 STE. # 422
HENDERSON, NEVADA 89044
Office: 702.452.2254
Fax: 702.456.2254
Email: info@advantagecivil-nv.com
CONSULTING
CIVIL ENGINEERING

NO.	DATE	DESCRIPTION
1	02-01-19	ISSUED FOR CONSTRUCTION
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JOB NUMBER: 02-043

DRAWN BY: CW

CHECKED BY: BGD

DATE: 12/2018

MUP 18 24

PROJ# 135831A QS: 138-28-SE

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)

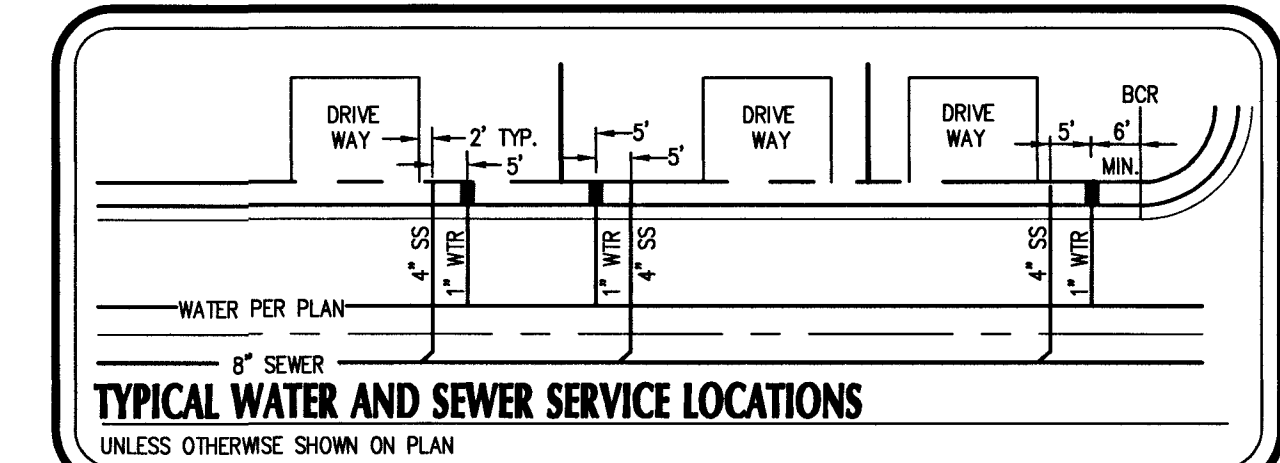
BENCHMARK
CITY OF LAS VEGAS VERTICAL CONTROL POINT "01000 2854" BEING A RIVET & PLATE IN TOP OF CURB AT NW CORNER OF WESTCLIFF & CIMARRON.

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)

FAST
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Call before you Dig
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" WET 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.
- 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.3.0.
 9. SAWCUT, REMOVE AND REPLACE PAVEMENT PER CCAUSD #500.4.

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

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.

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 LLVWD FACILITIES.
3. ALL SERVICES STATIONED AT R/W.
4. P.O.S.T. P.I. = POINT ON SUBTANTANT PAST POINT OF INTERSECTION ALONG THE SAME BEARING.

SECTION VIEW
SEE UDACS PLATE NO. 40
CONDITION C
FIRE HYDRANT LOCATION
DETAIL WHERE ATTACHED
SIDEWALK OCCURS
NOT TO SCALE

APPROVALS

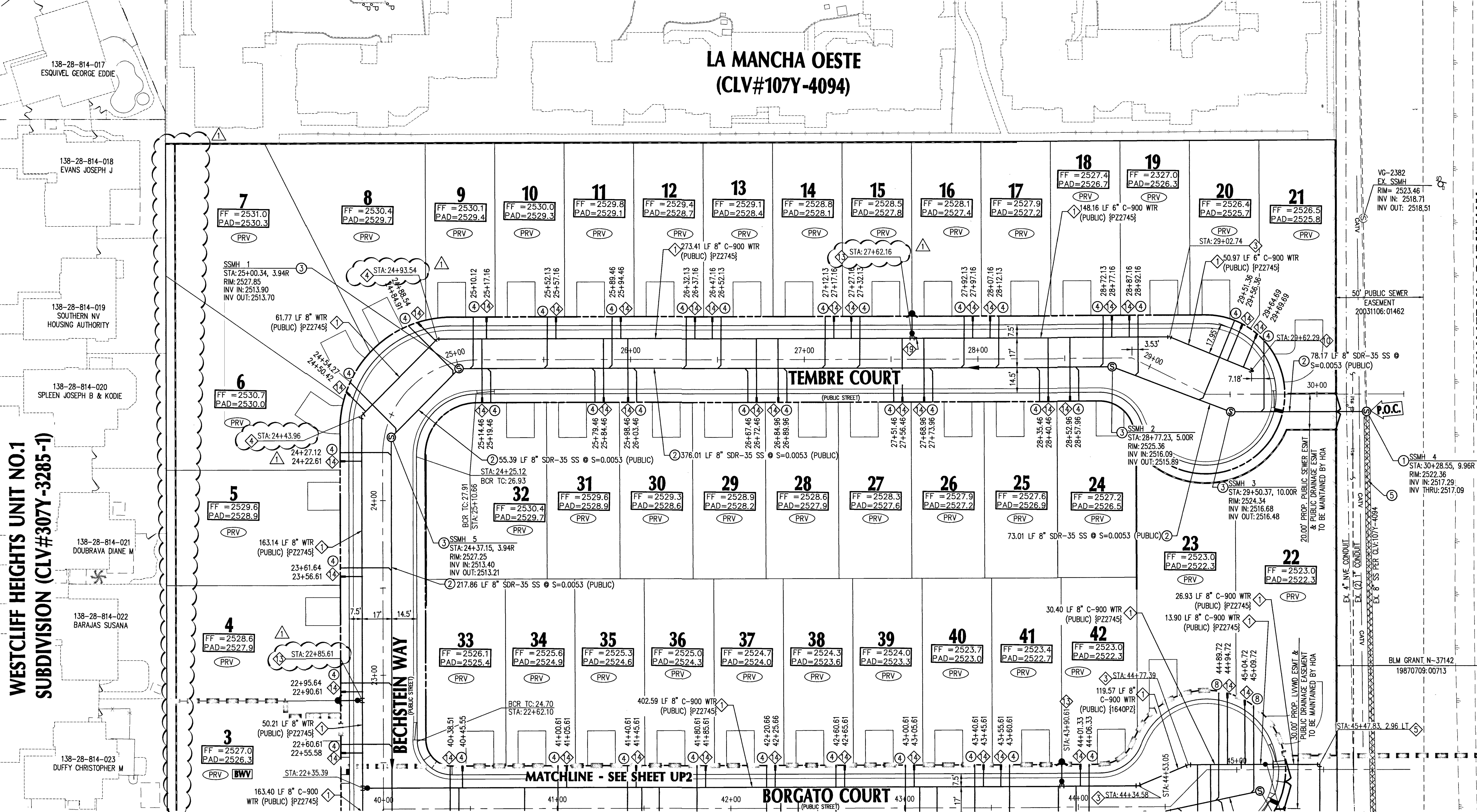
CITY OF LAS VEGAS FIRE DEPARTMENT
7-2-19
DATE

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
7/8/19
DATE

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135931 DATE: 2-6-19
LVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 26 GPM
L18-02380 1075099

NO.	DATE	REVISIONS	DESCRIPTION
1	5/2/19	REVISED RETAINING WALLS, REUSED WATER MAIN DUE TO CONFLICTS, UPDATE STATIONS FOR WATERMAIN FITTINGS, ADDED NOTE TO REMOVE EX SEWER STUB, ADDED DRY UTILITY PLANS.	
JOB NUMBER: 02-043			DRAWN BY: CW
DESIGNED BY: CW			CHECKED BY: BGD
DATE: 12/20/18			
UP1			19
			24



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

UTILITY PLAN 1
BLM 33
BY D.R. HORTON

ADVANTAGE CIVIL DESIGN GROUP, LLP
2920 N. GREEN VALLEY FRY RD., 4 STE # 422
HENDERSON, NEVADA 89014
Office: 702.432.2294
Fax: 702.436.2294
Email: MAIL@ADVANTAGECIVIL-LLP.COM
CONSULTING

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

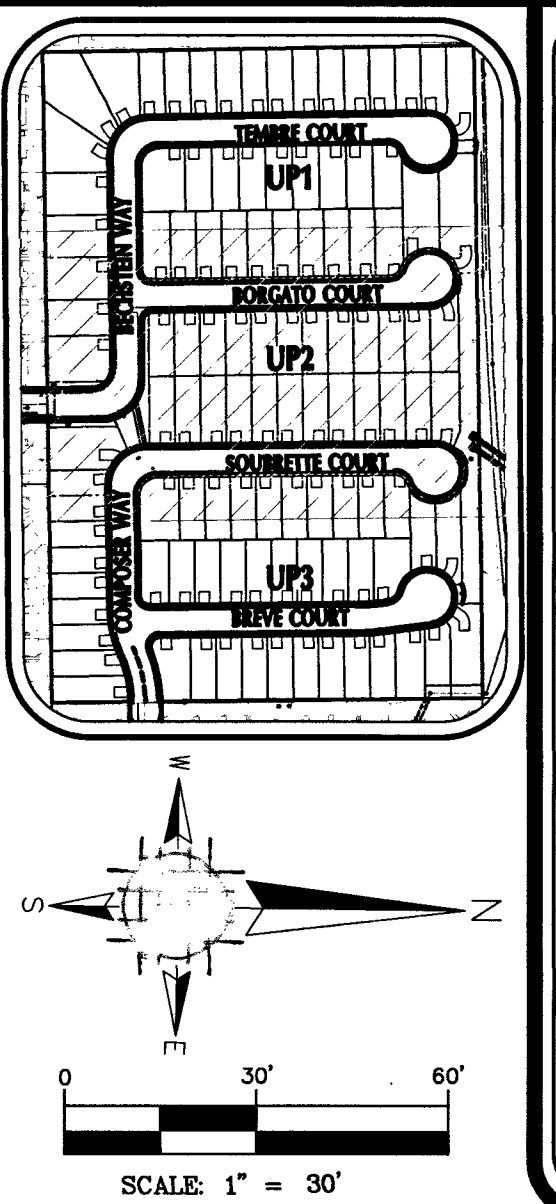
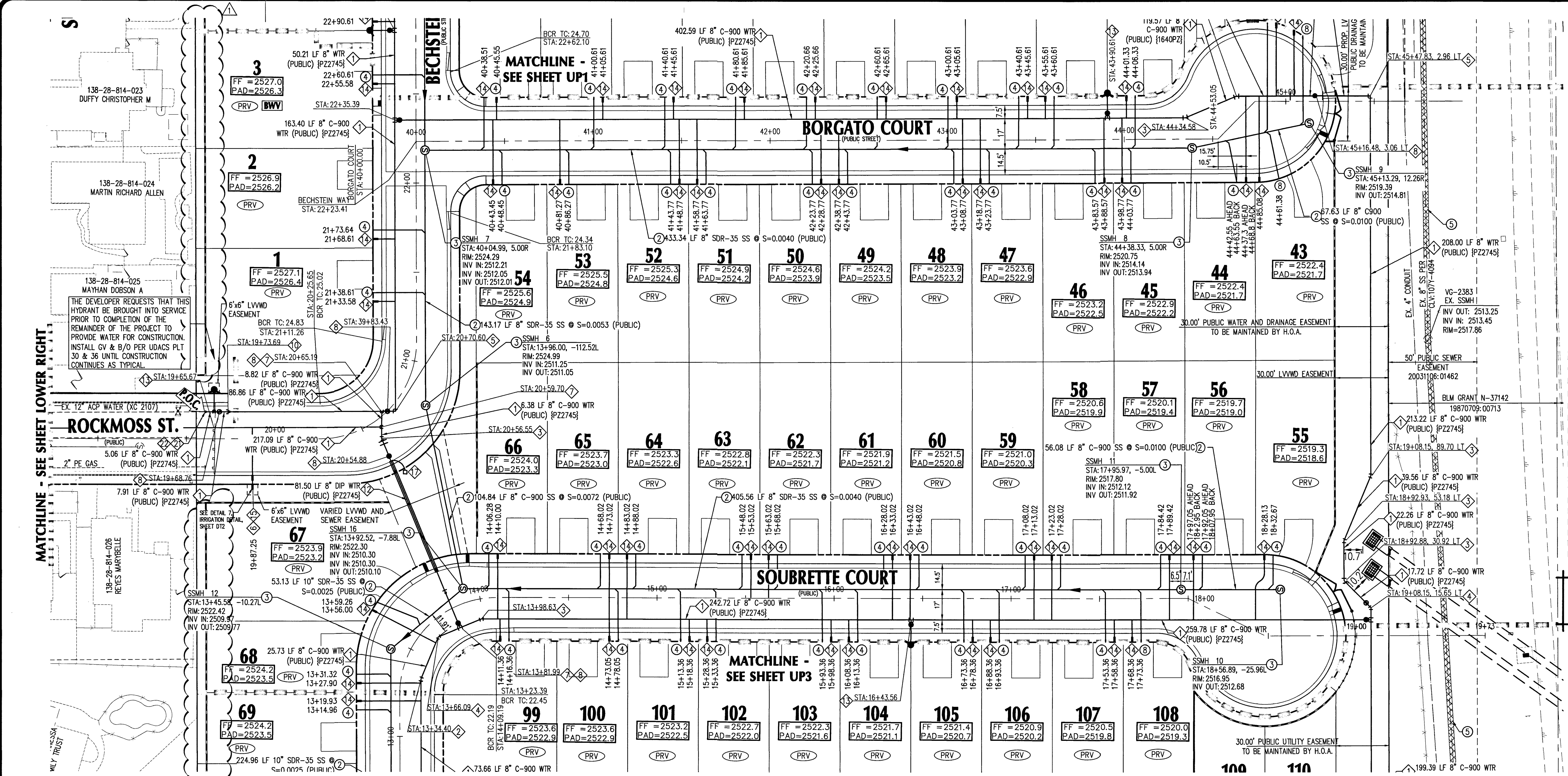
TYPE OF CONSTRUCTION: V-B

OCCUPANCY: R-3

FULL AUTOMATIC FIRE SPRINKLER SYSTEM: YES

NOTES:

1. REUSE RETAINING WALLS, REUSED WATER MAIN DUE TO CONFLICTS, UPDATE STATIONS FOR WATERMAIN FITTINGS, ADDED NOTE TO REMOVE EX SEWER STUB, ADDED DRY UTILITY PLANS.



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

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

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)

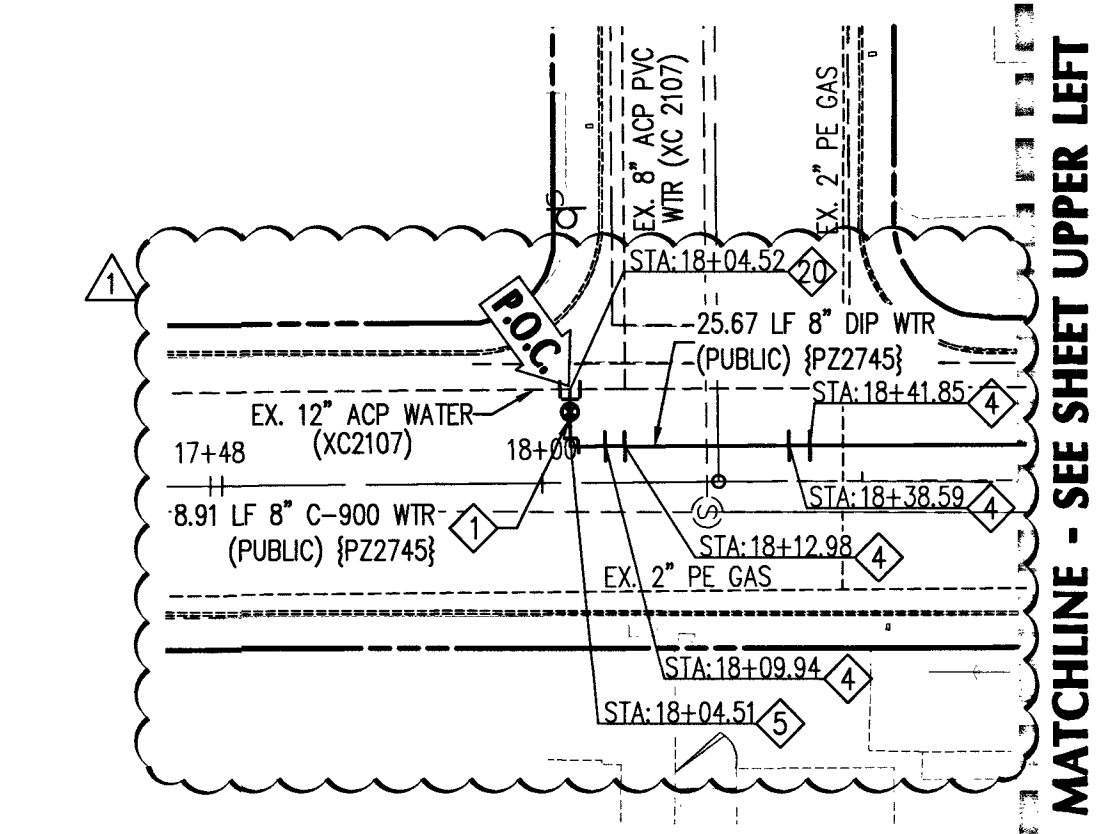
BENCHMARK
CITY OF LAS VEGAS VERTICAL CONTROL POINT "OLV02 28S4" BEING A RIVET &
PLATE IN TOP OF CURB AT NW CORNER OF WESTCLIFF & CIMARRON.

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)

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

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



- 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" WET 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 D12.
 - 16. INSTALL LOCATOR RIBBON PER UDACS 2.17.01B.
 - 17. INSTALL TYPE 'C' TESTING STATION PER 'S' ON SHEET D2.
 - 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.
- 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 3.18, 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.d
 - 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. PRV ARE THE DEVELOPERS RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LLVWD FACILITIES.
 - 3. ALL SERVICES STATIONED AT R/W.
 - 4. P.O.S.T. P.I. = POINT ON SUBTANGENT 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.

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APPROVALS

APPROVED FOR CONSTRUCTION

SOUTHWEST GAS CORPORATION
DATE: 7/10/19

CITY OF LAS VEGAS FIRE DEPARTMENT
DATE: 7-2-19

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LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
DESIGNED BY: BGD
CHECKED BY: BGD
DATE: 12/2018

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: ADVANTAGECIVIL@GMAIL.COM
CONSULTING
CIVIL ENGINEERING

UTILITY PLAN 2
BLM 33
BY D.R. HORTON

REVISIONS

NO.	DATE	DESCRIPTION	COH
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.	

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

UP2 20 24

PROJ#: 135931A QS:135-28-28

RED ROCK HEIGHTS SUBDIVISION
(CLV#107Y-3285)

BASIS OF BEARING
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE
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LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF
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LINEAR UNIT: US SURVEY FOOT (SFT)

BENCHMARK
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777.844 METERS

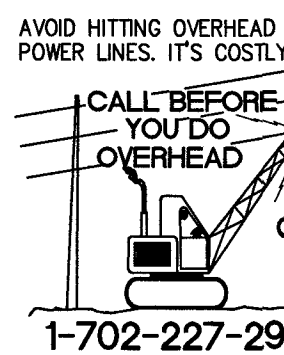
CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007)
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Call before you Dig
Underground
1-702-432-5300



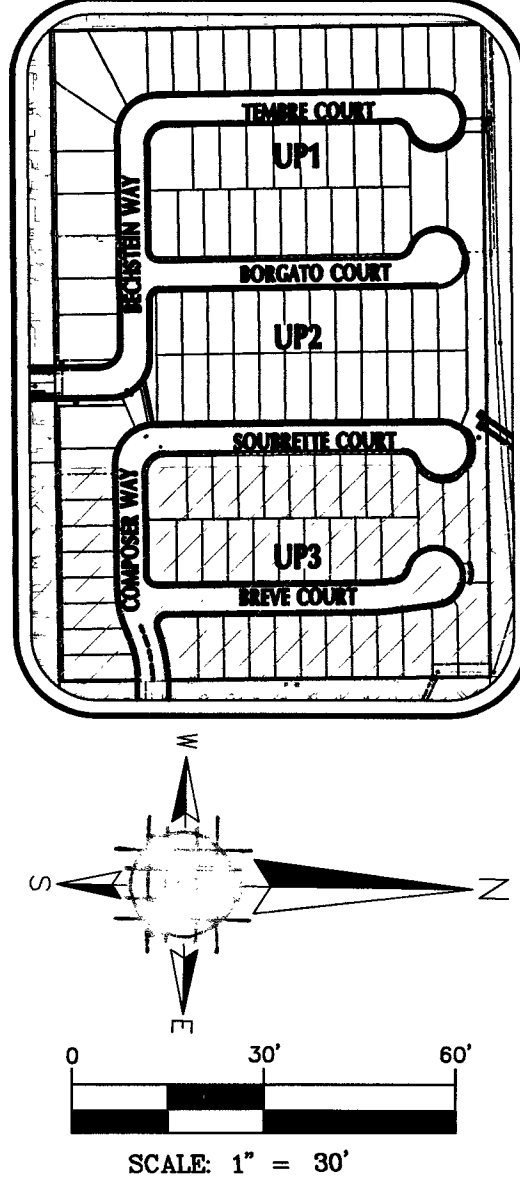
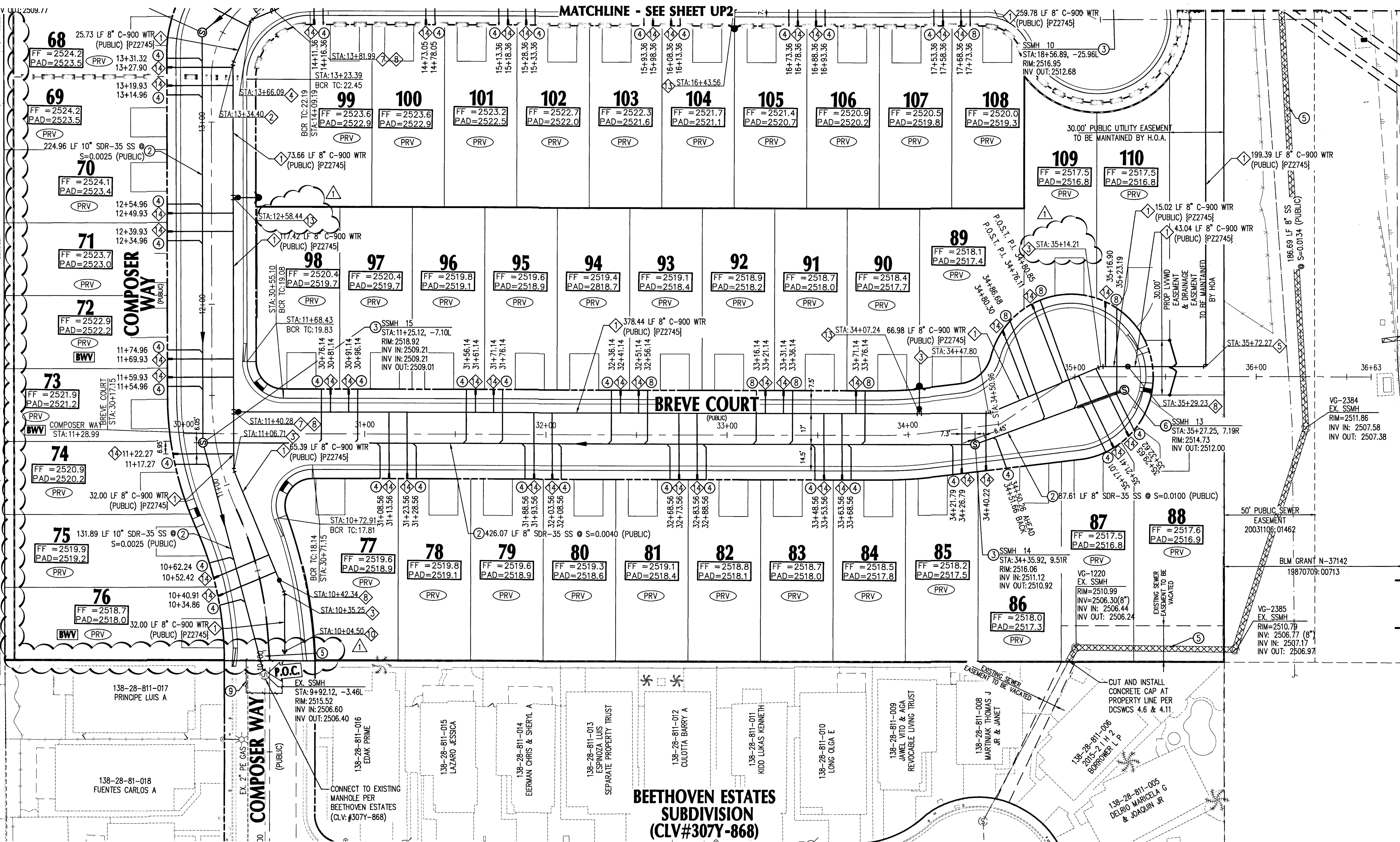
1-800-227-2600



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.

MATCHLINE - SEE SHEET UP2

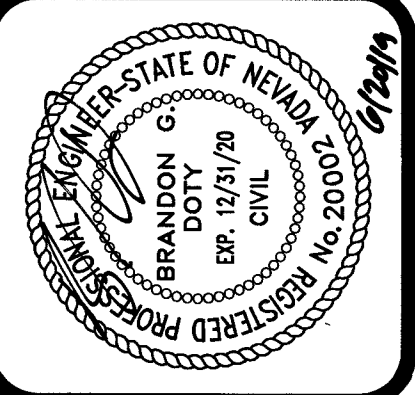


LEGEND

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
EXISTING SAWCUT	
EXISTING EDGE PAVT	
SANITARY SEWER	SS
WATER	WAT
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MANHOLE	MH
BACKWATER VALVE	BWV
PRESSURE REDUCING VALVE	PRV

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

ADVANTAGE CIVIL DESIGN GROUP, LLP
2920 N. GREEN VALLEY FRY RD., 4 STE # 422
HENDERSON, NEVADA 89014
OFFICE: 702.452.2224
FAX: 702.456.2224
Email: MAIL@ADVANTAGECIVIL-LLP.COM
CIVIL ENGINEERING
CONSULTING
PLANNING



UTILITY PLAN 3
BLM 33
BY D.R. HORTON

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.
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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.
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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:

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. PRV 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 SUBTANGENT PAST POINT OF INTERSECTION ALONG THE SAME BEARING.

NOTE:

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

APPROVALS

[Signature] 7/10/19
SOUTHWEST GAS CORPORATION DATE

[Signature] 7-2-19
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

[Signature] 7/8/19
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135921, DATE: 7/8/19
LVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 26 GPM

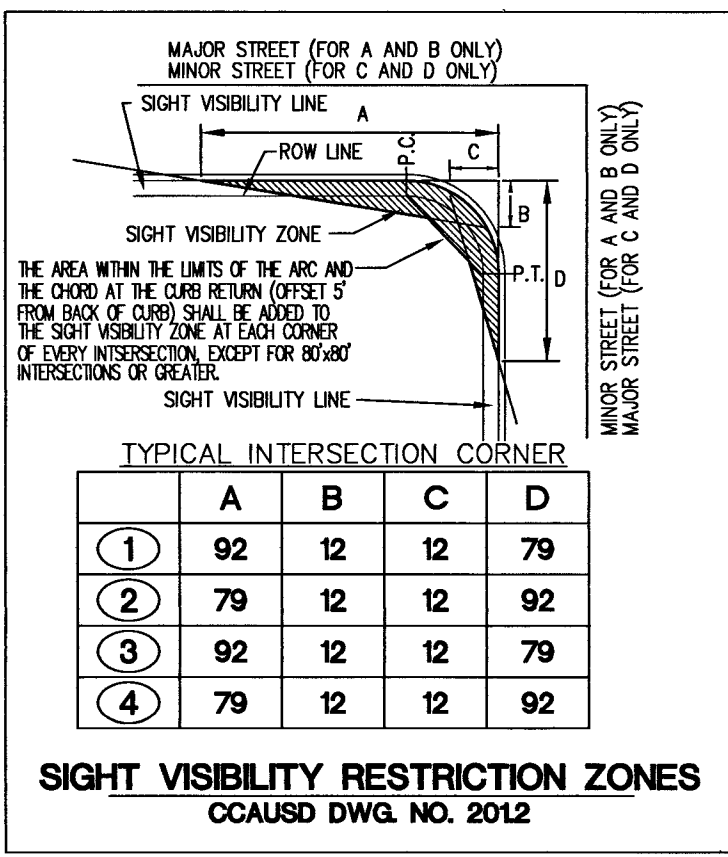
REVISIONS		COH
NO.	DATE	DESCRIPTION
1	5/2/19	REVISED RETAINING WALLS, REVISED WATER MAIN DUE TO CONFLICTS, UPDATE STATIONS FOR WATERMAIN FITTINGS, ADDED NOTE TO REMOVE EX-SEWER STUB, ADDED DRY UTILITY PLANS.

[illegible]

CALL BEFORE
YOU DO
OVERHEAD



1-702-227-2929



CONSTRUCTION NOTES

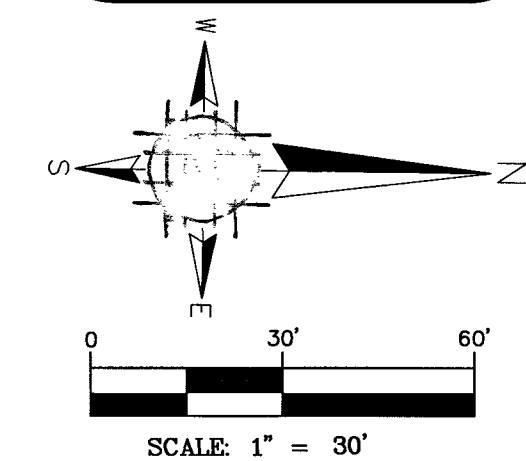
- ① INSTALL 8" D-3 STREET NAME SIGNS. INITIAL UPPERCASE LETTER IS 8" SERIES C AND LOWERCASE LETTERS ARE 6" SERIES C.
- ② INSTALL 36" R1-1 STOP SIGN.
- ③ INSTALL CE-ENVELOPE ERL1-0-08-B3-1-40-A-GRAY-ALR-GBSP LED STREETLIGHT (OR APPROVED EQUAL) AND FOUNDATION PER CCAUSD 314, 320 AND 321
- ④ INSTALL STANDARD 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.

	A	B	C	D
①	92	12	12	79
②	79	12	12	92
③	92	12	12	79
④	79	12	12	92

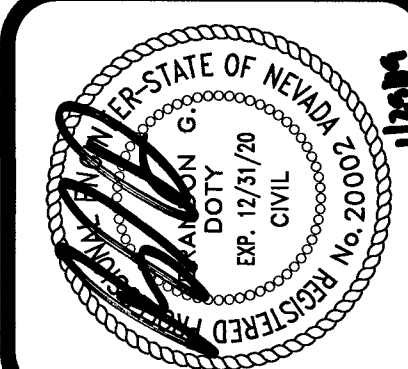
	PROP. STREET LIGHT CONDUIT
	PRIVATE STREET ESMT.
	R.O.W
	PROPOSED 100W HPS SINGLE STREETLIGHT ASSEMBLY PER USD 314 OR 316.
	PROPOSED SEWER PEDESTAL
	PROPOSED PULLBOX PER USD 326.
	BLUE REFLECTOR

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





ADVANTAGE CIVIL DESIGN GROUP, LLP
2920 N. GREEN VALLEY PKWY., BLDG. 4 5TH FL. 4122
HENRIKSON, NEVADA 89014
Office: 702.492.2294
Fax: 702.496.2284
Email: info@advancivil.com
CIVIL ENGINEERING PLANNING CONSULTING



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

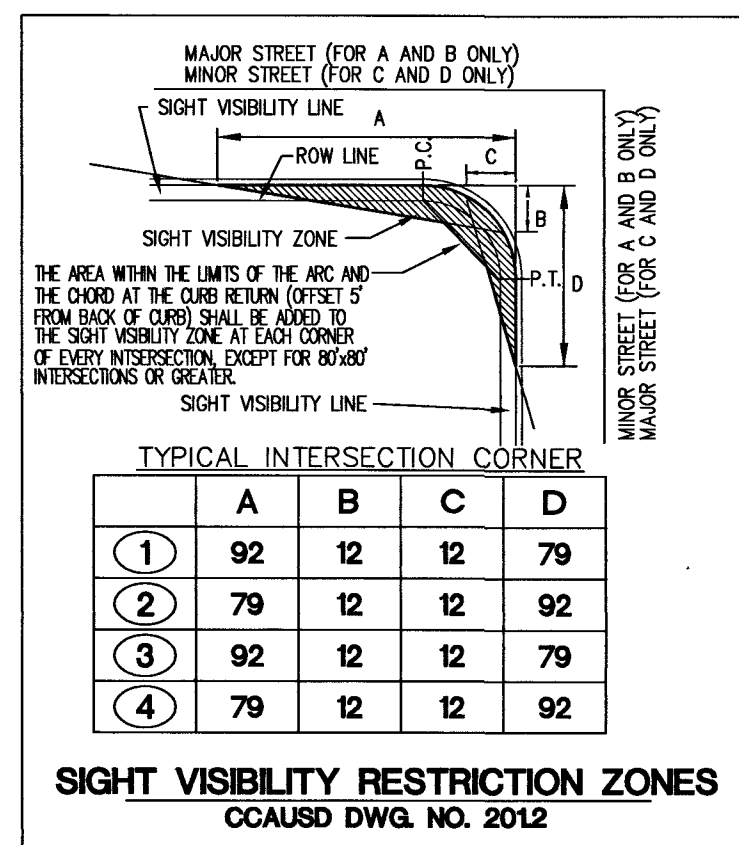
ZONE: LAS VEGAS ZONE
 STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
 CENTRAL MERIDIAN: 114°58'00" W
 FALSE NORTHING: 200,000 METERS
 FALSE EASTING: 100,000 METERS
 STANDARD PARALLEL SCALE: 1.0001
 LINEAR UNIT: US SURVEY FOOT (SFT)

BENCHMARK

CITY OF LAS VEGAS VERTICAL CONTROL POINT "OLV00 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:

1. 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.

2. SEE SHEET SS1 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 UPPERCASE LETTER IS 8" SERIES C AND LOWERCASE LETTERS ARE 6" SERIES C.
- (2) INSTALL 36" R-1 STOP SIGN.
- (3) INSTALL GE-ENVELOPE ERL1-0-08-B3-1-40-A-GRAY-ALR-GBSP LED STREETLIGHT (OR APPROVED EQUAL) AND FOUNDATION PER CCAUSD 314, 320 AND 321
- (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 ROADSWAYS 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.
- (11) INSTALL W14-2 (NO OUTLET) SIGN

APPROVALS


CITY OF LAS VEGAS FIRE DEPARTMENT

1-31-19

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.

L18-02380 107V5099

[illegible]

 **Call**
before you
UnderGround
1-702-432-5300
FREEWAY AND ARTERIAL
SYSTEM OF TRANSPORTATION

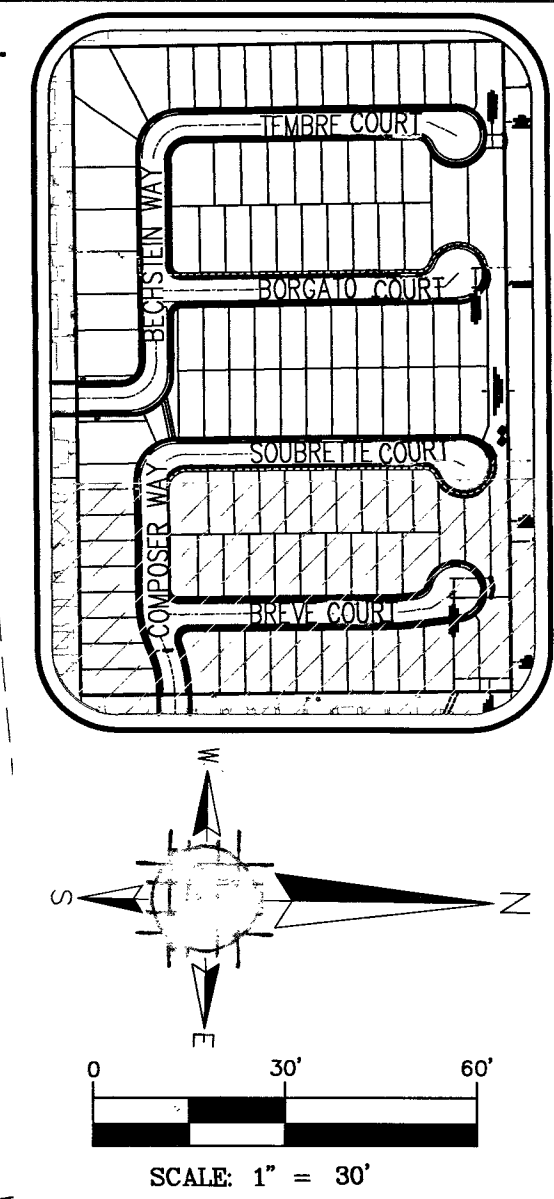
Call before you Dig
AVOID CUTTING UNDERGROUND
UTILITIES. 1-800-4-A-DAWG



OR
1-800-227-2600



1-702-227-2929

[illegible]

APPROVALS

  1-3-19

CITY OF LAS VEGAS FIRE DEPARTMENT _____ DATE _____

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO
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ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS.

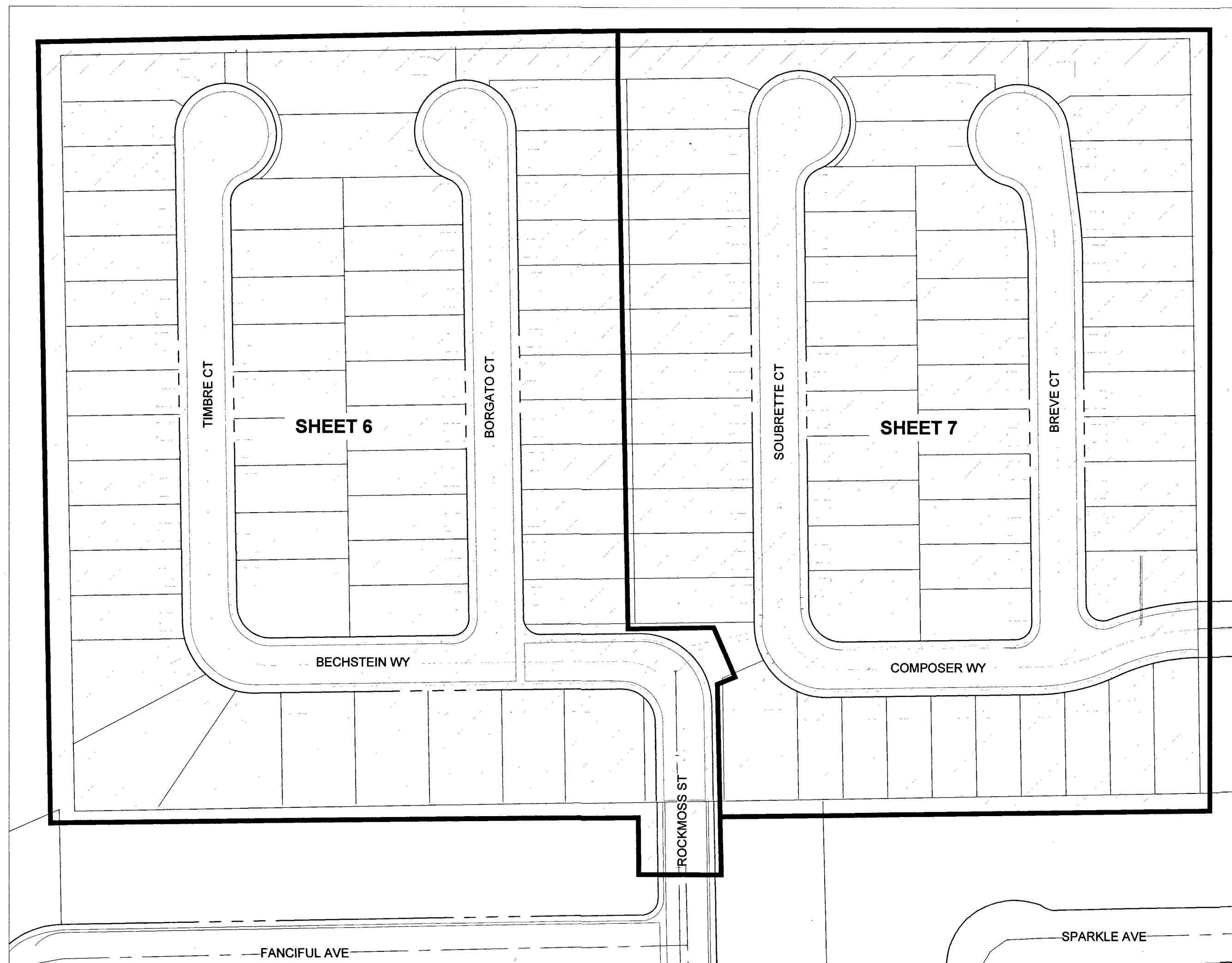
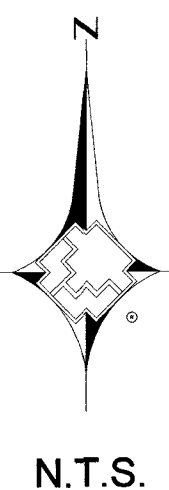
FIRE FLOW 1500 GPM AT 20 P.S.I. RESIDUAL.

L18-02380 107V5099

	A	B	C	D
1	92	12	12	79
2	79	12	12	92
3	92	12	12	79
4	79	12	12	92

LEGEND

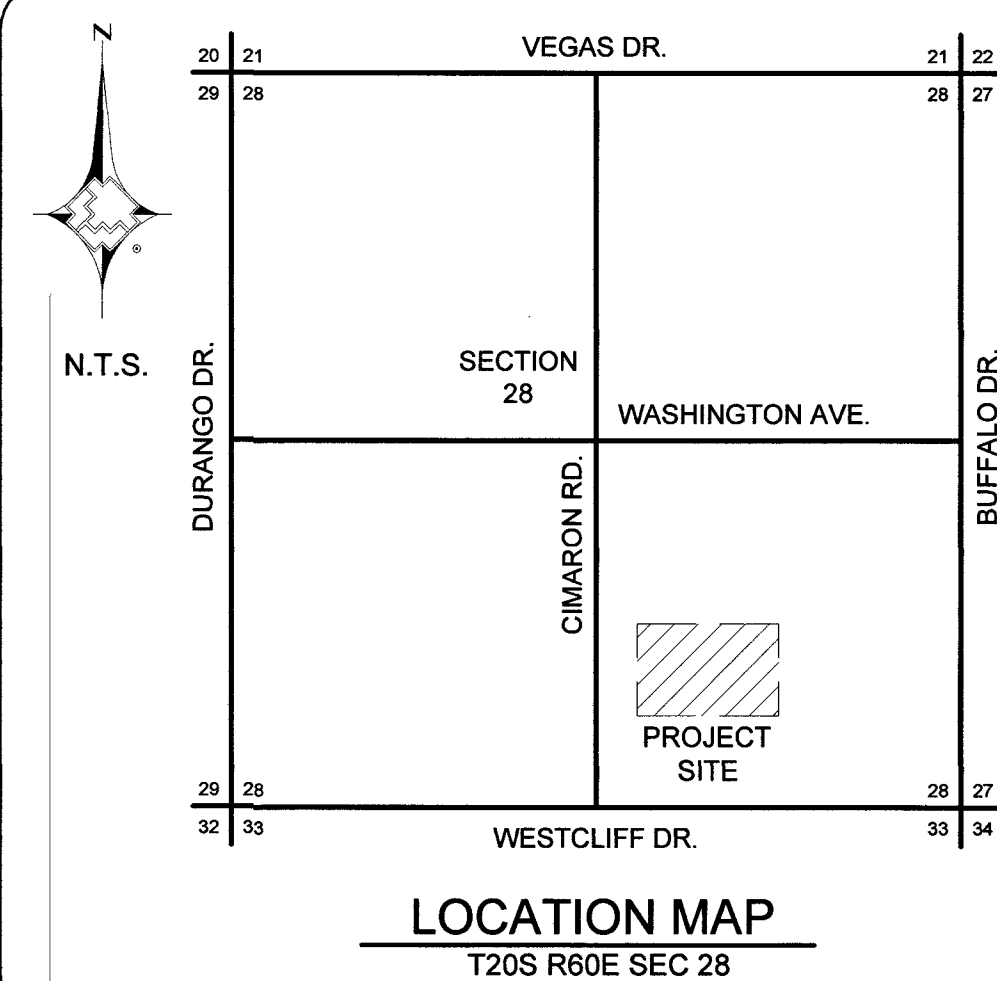
EXISTING GAS MAIN	
EXISTING GAS SERVICE	
GAS LINE TO BE ABANDONED	
STEEL RISER	
ANODELESS RISER	
GASLIGHT	
GAS VALVE	
EXCESS FLOW VALVE	
RELIEF VALVE	
COUPLINGS	
BOND OVER	
TEST POINT	
INSULATOR	
REGULATOR STATION	
RECTIFIER	
ANODE	
SCADA	
METER SET ASSEMBLY	
PURGE POINT	
BRANCH,CVT,LINE STOPPER	
GAS 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

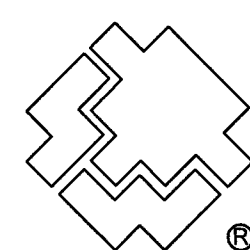
Total footage located in Public ROW 3,045'

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

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



Know what's below.
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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			

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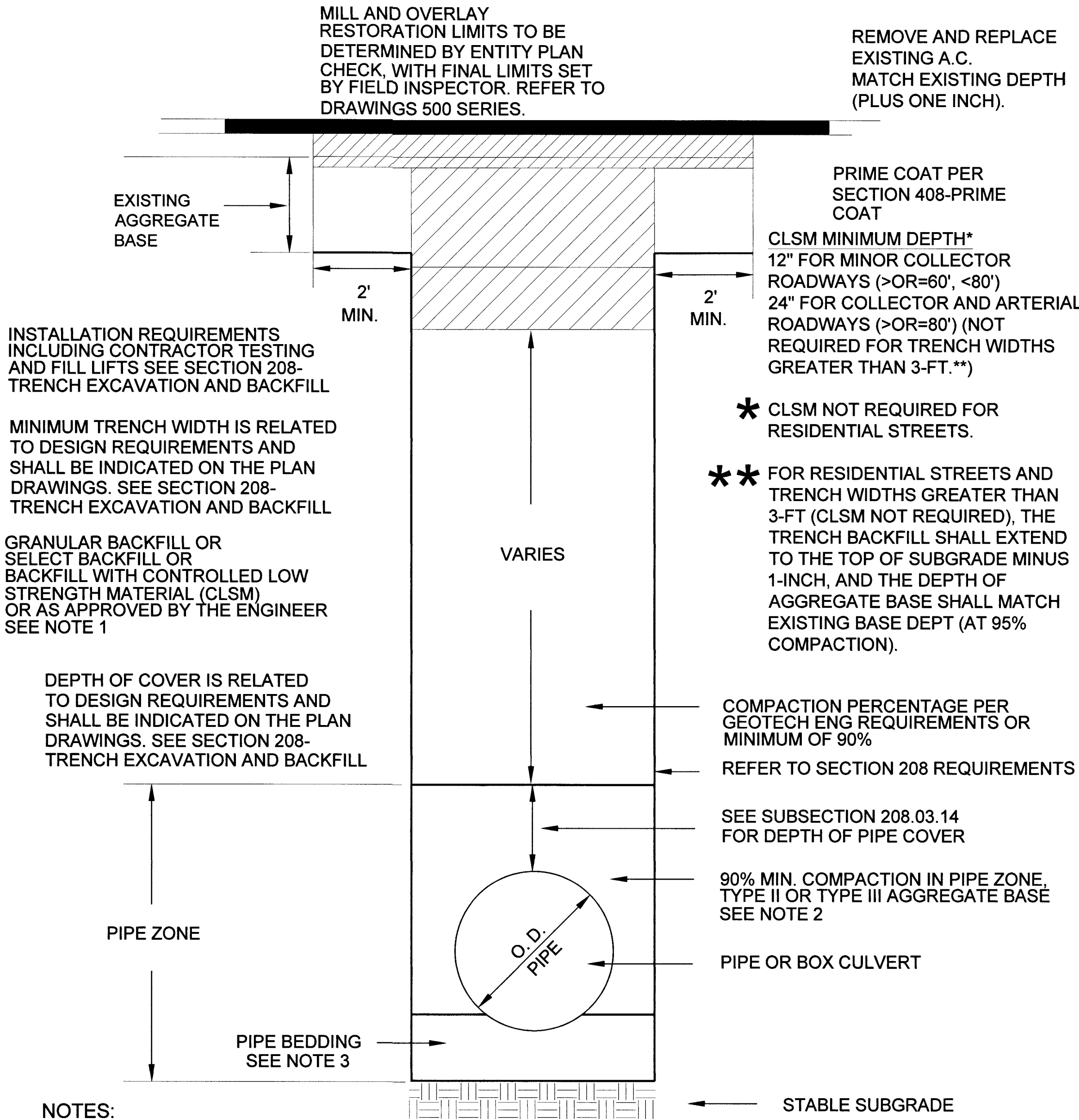
- GENERAL NOTES:
- SUGGESTED GAS LOCATIONS ARE TO CLEAR SUBSTRUCTURES. LOCATE IN FIELD.
 - ALL PIPELINE CONSTRUCTION SHALL CONFORM TO APPLICABLE JURISDICTION SPECIFICATIONS..
 - DO NOT SCALE THIS DRAWING.
 - CHANGE IN PROPOSED MAIN LOCATION MUST BE AUTHORIZED BY SWG ENGINEER PRIOR TO INSTALLATION.
 -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

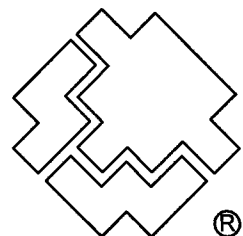
- NO STONES OR LUMPS GREATER THAN 3" PERMITTED IN TRENCH 2' OR LESS IN WIDTH.
- TRENCH WIDTH, BEDDING, SUBGRADE AND PIPE ZONE REQUIREMENTS FOR UTILITY INSTALLATIONS SHALL CONFORM TO THE RESPECTIVE ENTITY REQUIREMENTS.
- CRUSHED ROCK MAY BE USED FOR PIPE BEDDING ONLY IF MATERIAL USE HAS BEEN SPECIFICALLY APPROVED BY THE GOVERNING AGENCY. SEE STANDARD DRAWING NO. 505 FOR PIPE BEDDING METHODS.
- 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:		NTSB NATIONAL TRANSPORTATION SAFETY BOARD	
AA	ALDYL-A PIPE	NTS	NOT TO SCALE
ABND	ABANDONED	OC	ON CENTER
AC	ASPHALTIC CONCRETE	OD	OUTSIDE DIAMETER
ACP	ACCELERATED CONSTRUCTION	OH	OVERHEAD
APN	ASSESSOR PARCEL NUMBER	OHE	OVERHEAD ELECTRIC
BLVD	BOULEVARD	P	POWER
BM	BENCHMARK	PAOP	POTENTIAL ALLOWABLE OPERATING PRESSURE
BO	BLOW OFF	PCC	PORTLAND CEMENT CONCRETE
BTU	BRITISH THERMAL UNIT	PE	POLYETHYLENE PIPE
CIP	CAST IRON PIPE	PH	POT HOLE
CL	CENTERLINE	PHMSA	PIPELINE & HAZARDOUS MATERIALS SAFETY ADMINISTRATION
CMP	CORRUGATED METAL PIPE	PL	PROPERTY LINE
CP	CATHODIC PROTECTION	PLC	POTENTIAL IMPACT CIRCLE
D	INSIDE DIAMETER	PLS	PRESSURE LIMITING STATION
DDCA	DESIGN DATA COLLECTION APPLICATION	P.O.B	POINT OF BEGINNING
DET	DETAIL	PP	POWER POLE
DIP	DUCTILE IRON PIPE	PROP	PROPOSED
DIA	DIAMETER	PQF	PREQUALIFIED FITTING
DIMP	DISTRIBUTION INTEGRITY MANAGEMENT PROGRAM	PSIG	POUNDS PER SQUARE INCH (GAUGE)
DP	DESIGN PRESSURE	PVC	POLYVINYL CHLORIDE
DWG	DRAWING	PUE	PUBLIC UTILITY EASEMENT
EFV	EXCESS FLOW VALVE	RC	REINFORCED CONCRETE
EG	EXISTING GRADE	RCP	REINFORCED CONCRETE PIPE
ELEC	ELECTRICAL	ROW	RIGHT OF WAY
ELEV	ELEVATION	SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION
EMS	ELECTRONIC MARKING SYSTEM	SD	STORM DRAIN
E.P	END POINT	SDMH	STORM DRAIN MANHOLE
EPR	ELECTRONIC PRESSURE RECORDERS	SDR	STANDARD DIMENSION RATIO
ESMT	EASEMENT	SF	SQUARE FOOT
EX	EXISTING	SHT	SHEET
FERC	FEDERAL ENERGY REGULATORY COMMISSION	SLSV	SERVICE LINE SHUT-OFF VALVE
FH	FIRE HYDRANT	SMYS	SPECIFIED MAXIMUM YIELD STRENGTH
GIR	GAS INFRASTRUCTURE REPLACEMENT	SS	SANITARY SEWER
GPR	GAS PRESSURE REGULATOR	SST	STAINLESS STEEL
HCA	HIGH CONSEQUENCE AREA	ST	STREET
HDD	HEATING DEGREE DAY	STA	STATION
HDPE	HIGH DENSITY POLYETHYLENE PIPE	STL	STEEL
HP	HIGH PRESSURE	SWG	SOUTHWEST GAS
HOP	HISTORIC OPERATING PRESSURE	TDS	TEST DATA SHEET
HVTT	HIGH VOLUME TAPPING TEE	TEL	TELEPHONE
IN	INCH(ES)	TB	THRUST BLOCK
IPS	IRON PIPE SIZE	TOP	TOP OF PIPE
JT	JOINT TRENCH	TP	TEST POINT
MAOP	MAXIMUM ALLOWABLE OPERATING PRESSURE	TS	TECHNICAL SERVICE NOTE
M&C	MEASUREMENTS & CONTROL	TRIMP	TRANSMISSION INTEGRITY MANAGEMENT PROGRAM
MCFH	THOUSAND CUBIC FEET PER HOUR	TYP	TYPICAL
MH	MANHOLE	U.E.	UTILITY EASEMENT
MOP	MAXIMUM OPERATING PRESSURE	UGE	UNDERGROUND ELECTRIC
MP	MANUFACTURER'S PRESSURE RATING	UOC	UNUSUAL OPERATING CONDITION
MSA	METER SET ASSEMBLY	USD	UNIFORM STANDARD DRAWING
MVP	MAPPING VERIFICATION PROCEDURE	UGT	UNDERGROUND TELEPHONE
NAP	NOT A PART	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)



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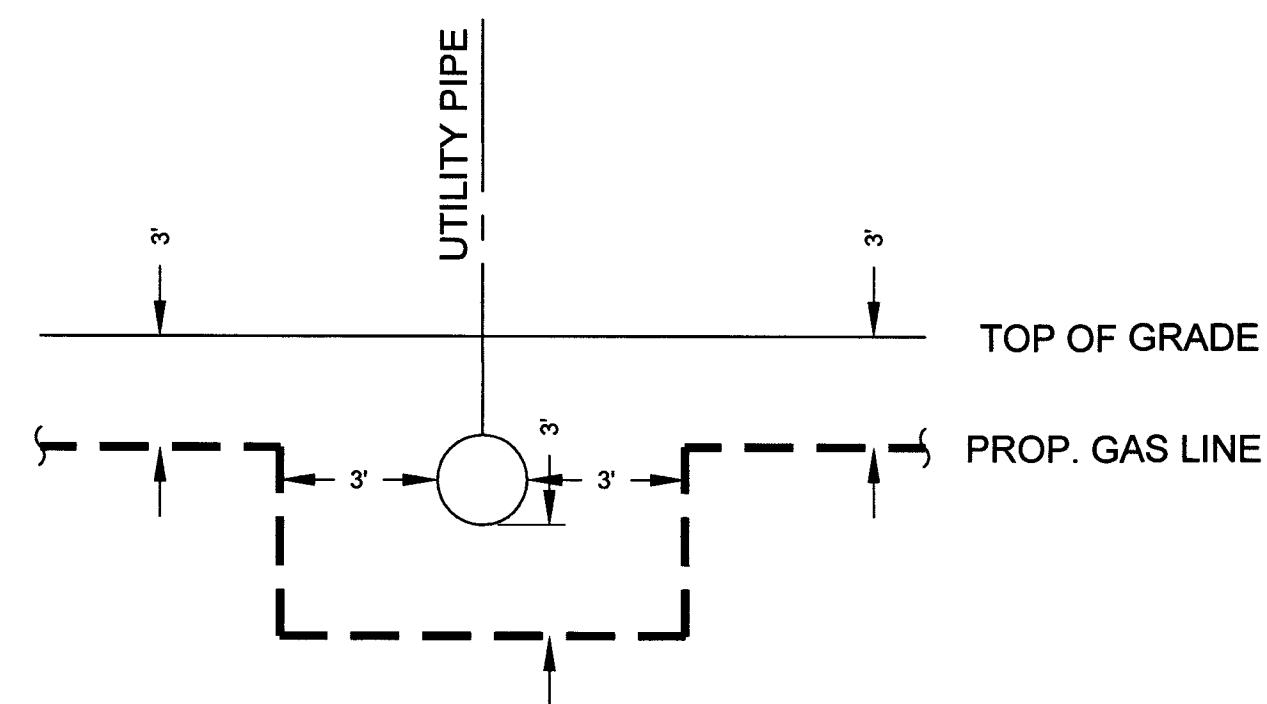
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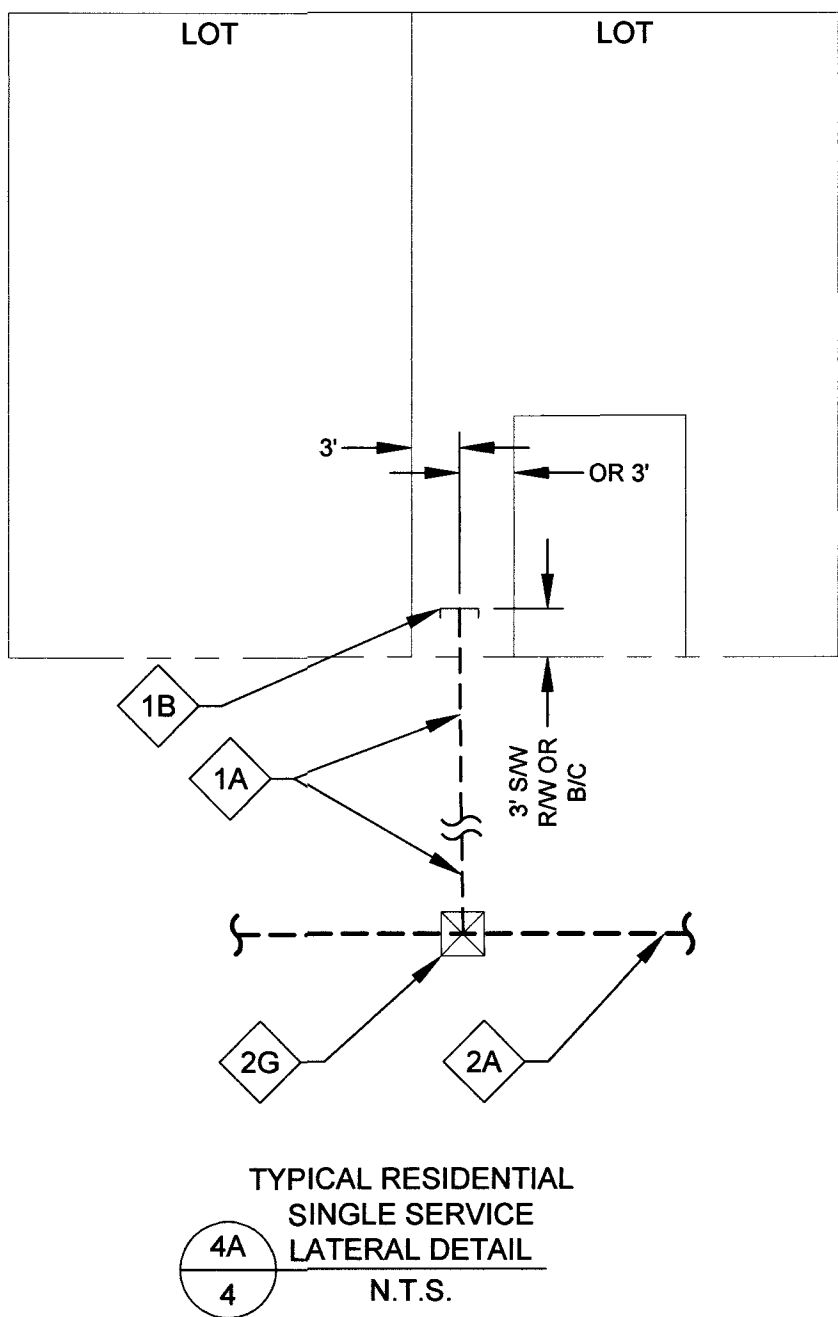
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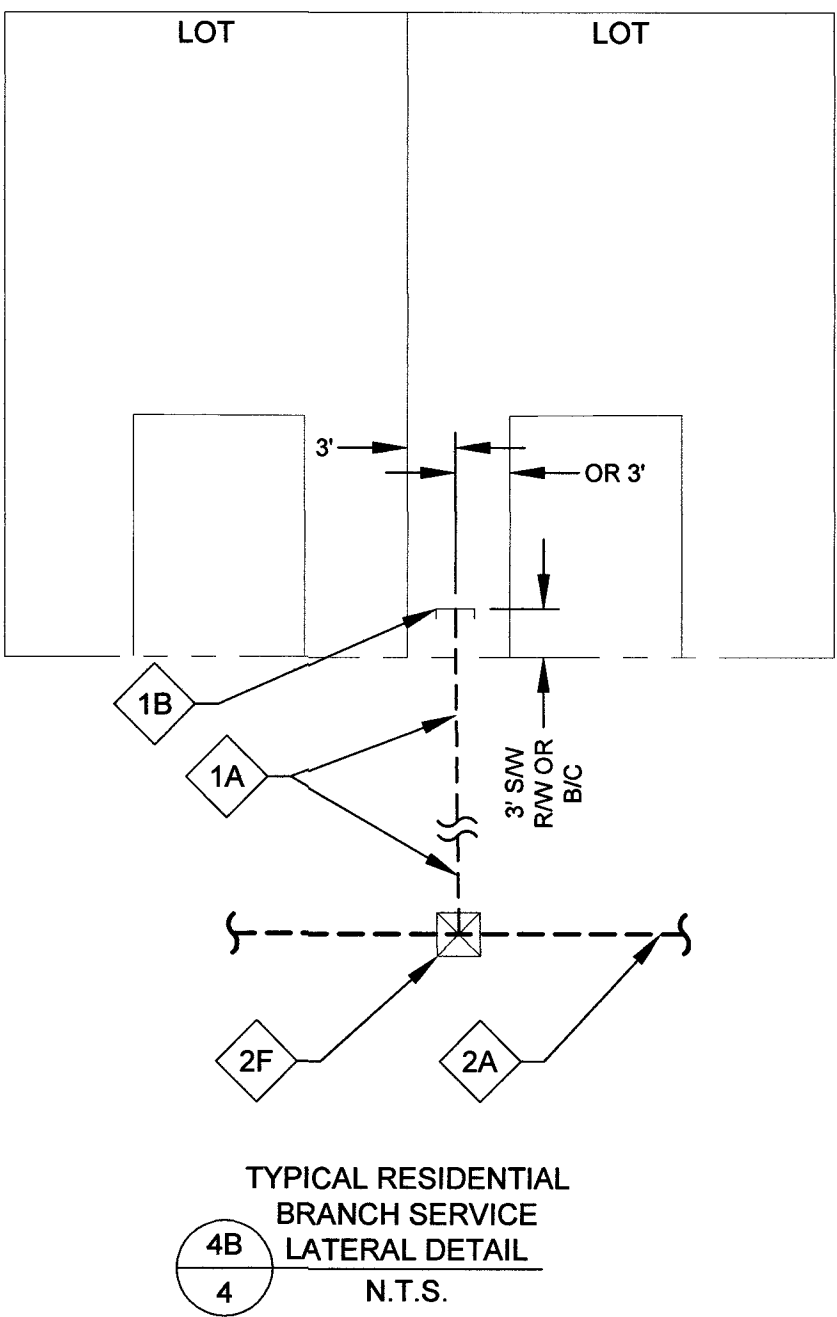
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												PROJECT CONTACT		DAVE VON OY		PHONE: (702) 376-7577	
												SHEET NO. 3 OF 7		SCALE N.T.S.		DATE 05/23/2019	
NO.	DESCRIPTION			BY	DATE	APPVD.						DWN. BY SEI		CHKD. BY AH		APPVD. BY BWJ	
PERMIT INFORMATION		ISOLATION AREA	LOCATION	ATLAS OR TILE				FEEDER		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:		HP SERVICE									
						SYSTEM MOP:		DISTRIBUTION		☒							
								TRANS. BY DEF									
								TRANS > 20%									



TYPICAL UTILITY CROSSING DETAIL
N.T.S.



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



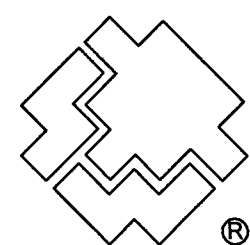
TYPICAL RESIDENTIAL
BRANCH SERVICE
LATERAL DETAIL
N.T.S.

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



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											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.	SYSTEM MAOP: 60		HP SERVICE	☐	3771778		
							SYSTEM MOP: 55		DISTRIBUTION	☒			
									FEEDER	☐	RELATED WR NO.S		
PERMIT INFORMATION		ISOLATION AREA	LOCATION	ATLAS OR TILE				TRANS. BY DEF		☐			
CITY OF LAS VEGAS TAX CODE: 02-0200		ISO_21_DIST_232	T20S R60E SEC 28 M.D.M.	x591y518		SYSTEM MAOP:		TRANS. > 20%		☐			
						SYSTEM MOP:							
												BLM 33	
												L18-02380 107450 99	

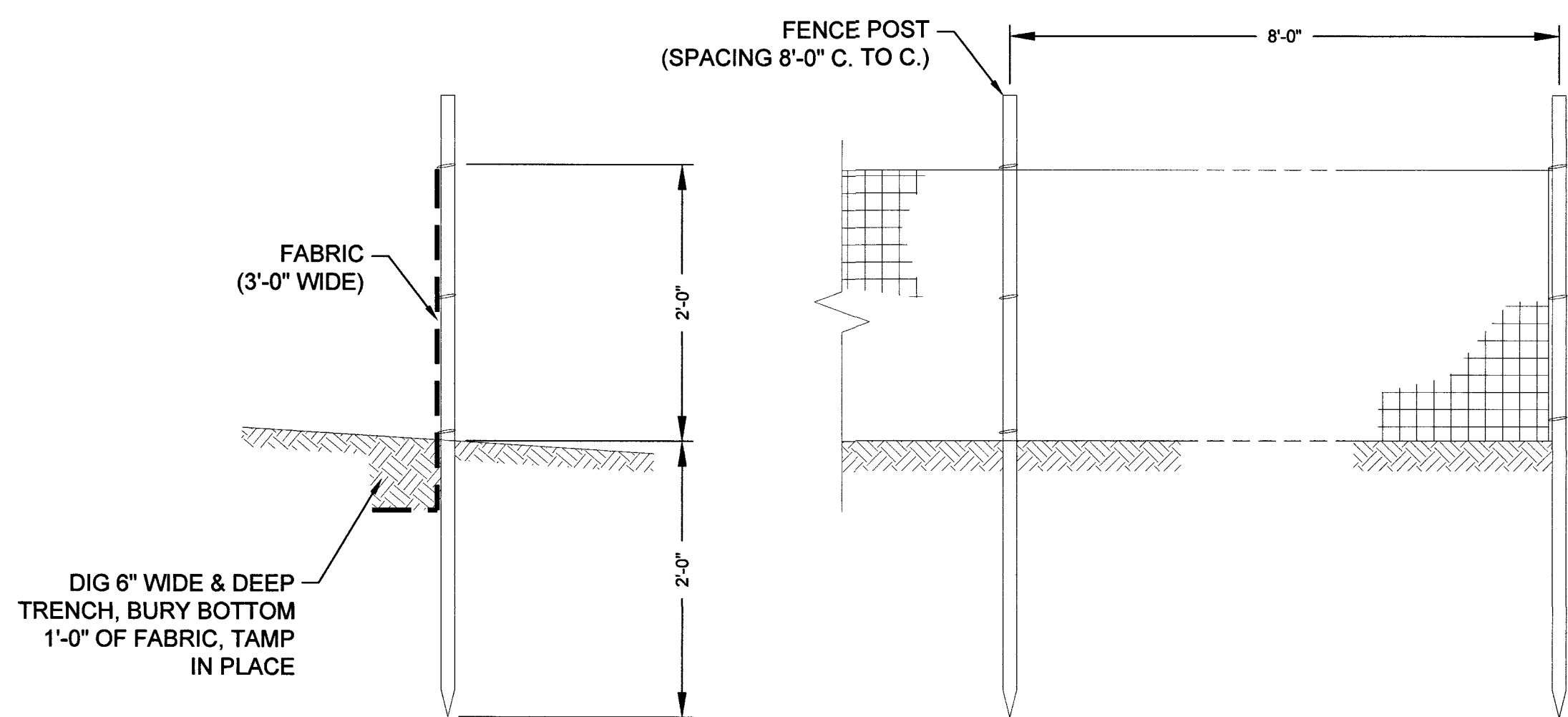
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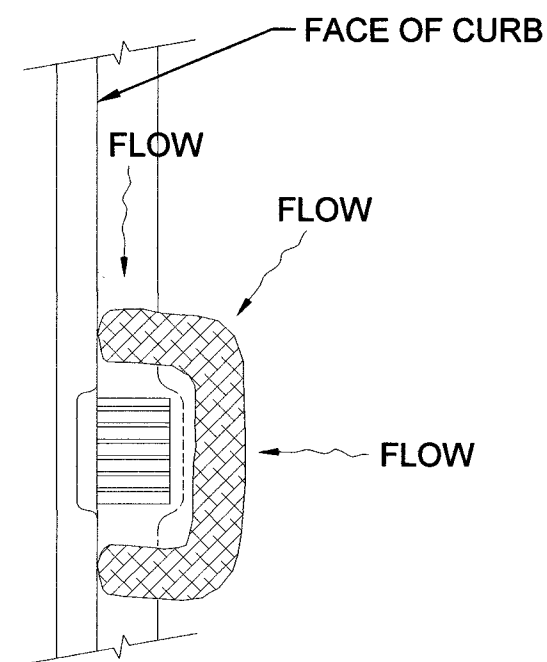
107Y50 99

TYPICAL SWPPP BMP DETAILS

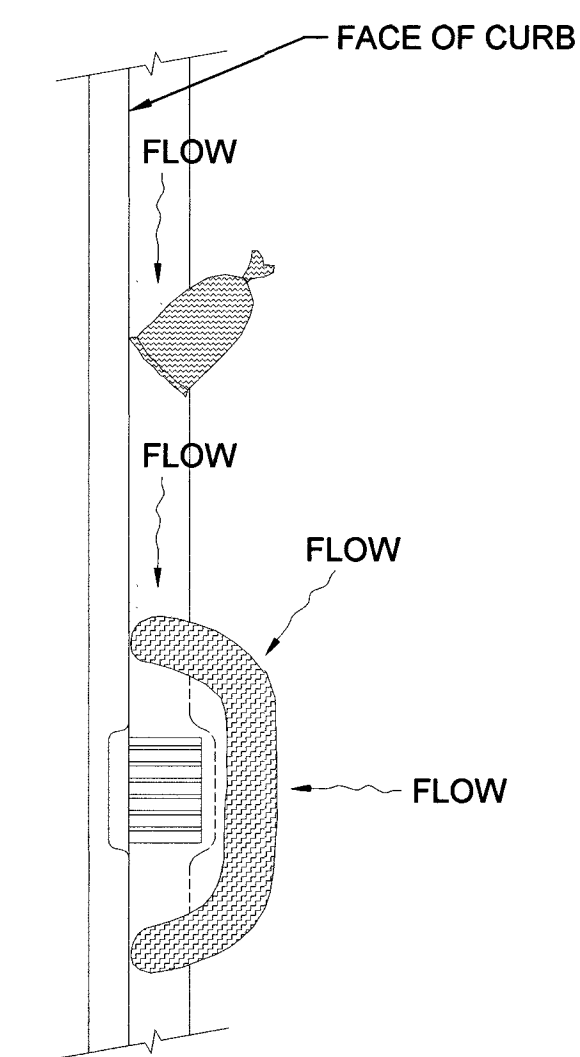
SWPPP NOTES



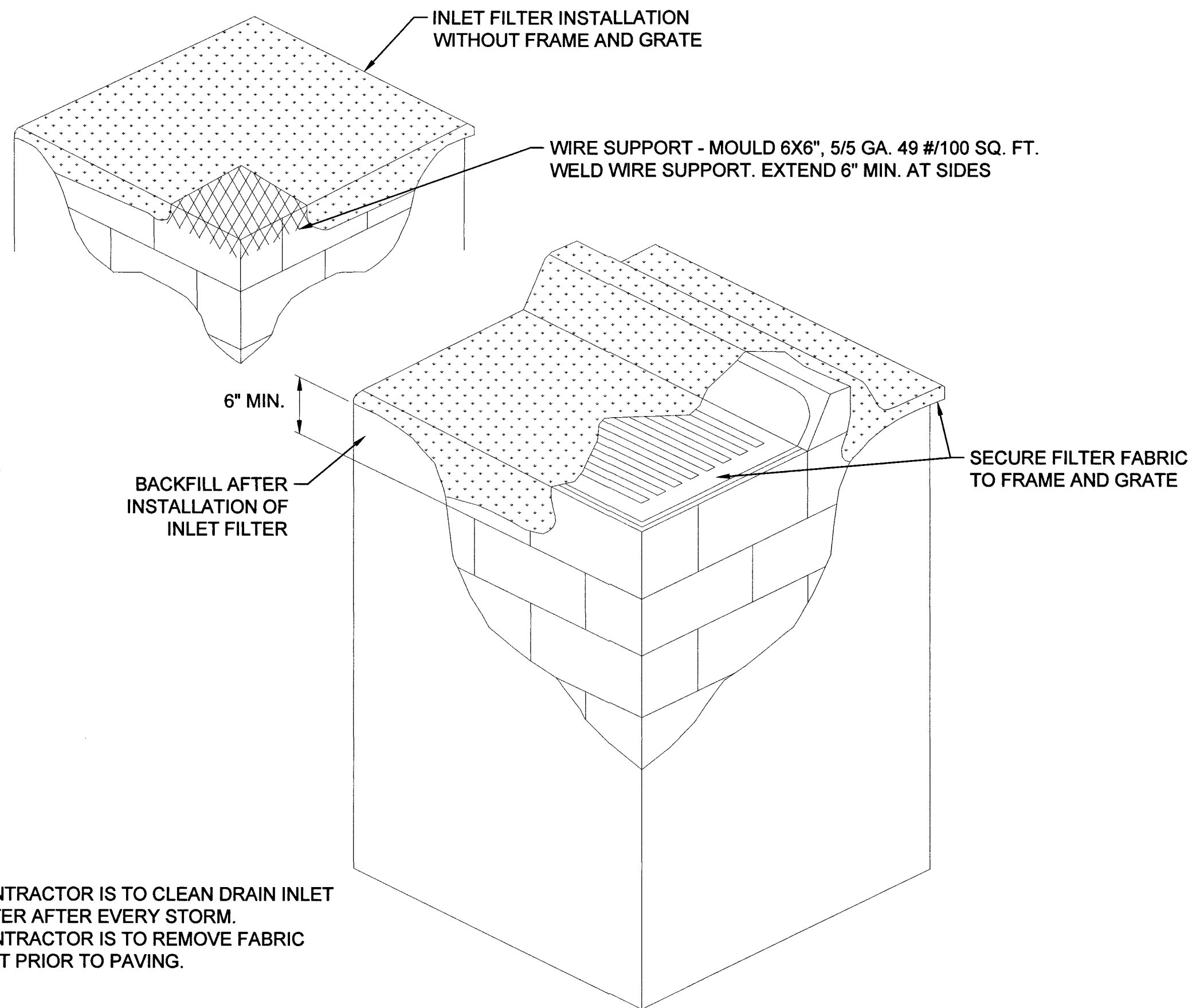
1 SILT FENCE
- N.T.S.



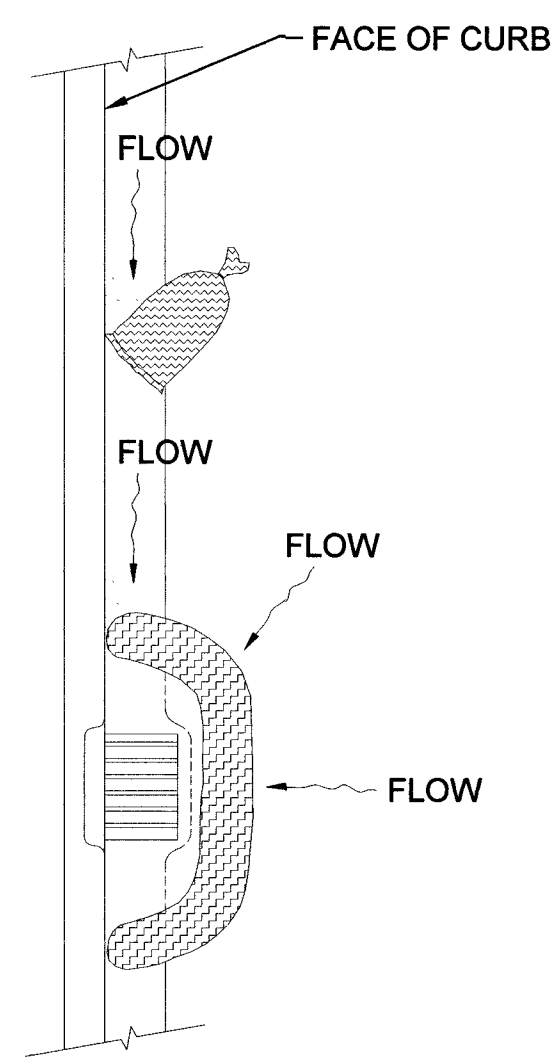
2 FIBER ROLL
- N.T.S.



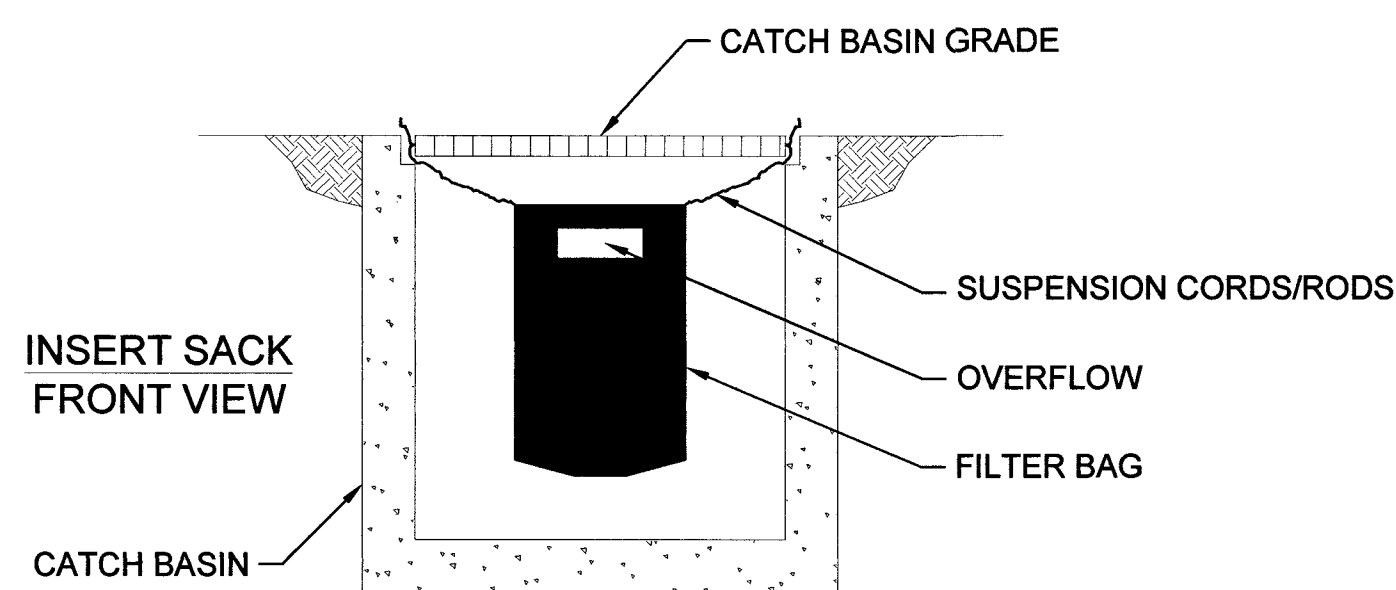
3 SAND BAG/ROLL
- N.T.S.



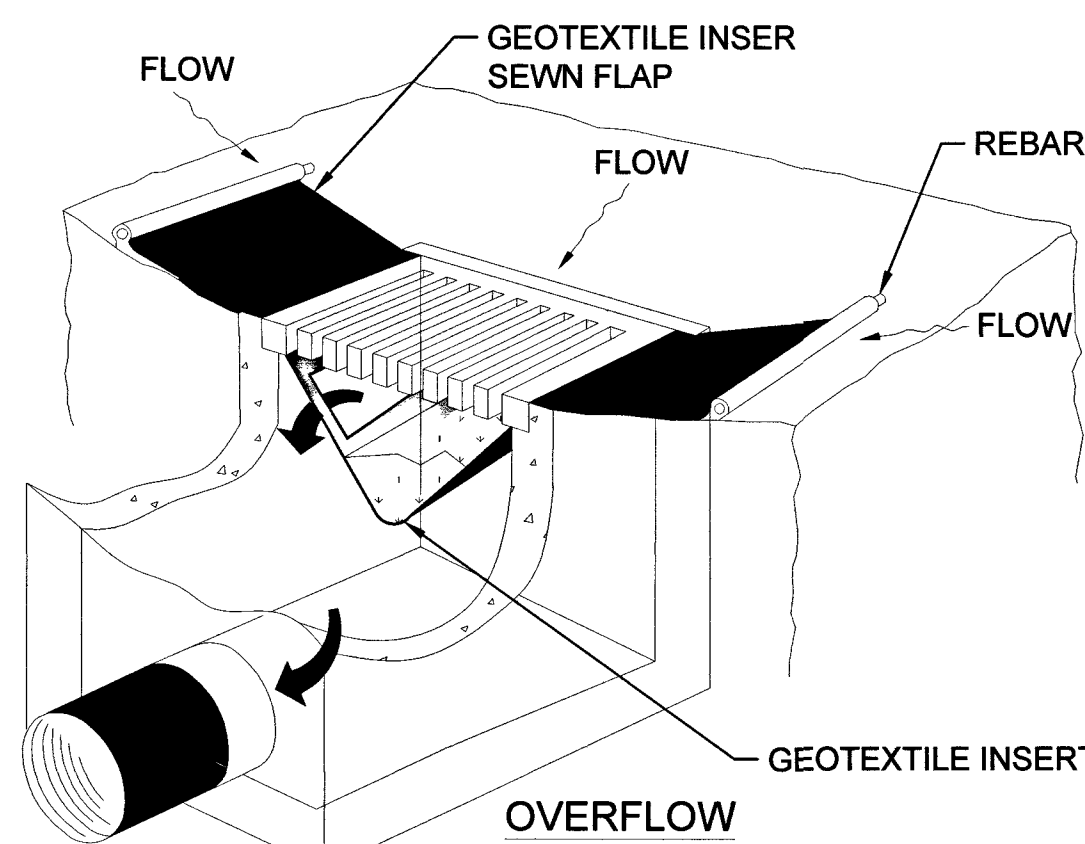
4 DRAIN
INLET FILTER
- N.T.S.



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



6 SEDIMENT
FILTER BAG
- N.T.S.



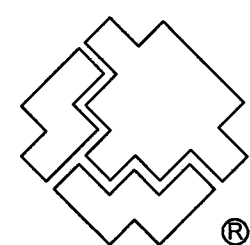
NOTE:
RECESSED CURB INLET MUST BE BLOCKED WHEN USING FILTER FABRIC INLET SACKS.
SIZE OF FILTER FABRIC INLET SACK TO BE DETERMINED BY MANUFACTURER.

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.

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



Know what's below.
Call before you dig.



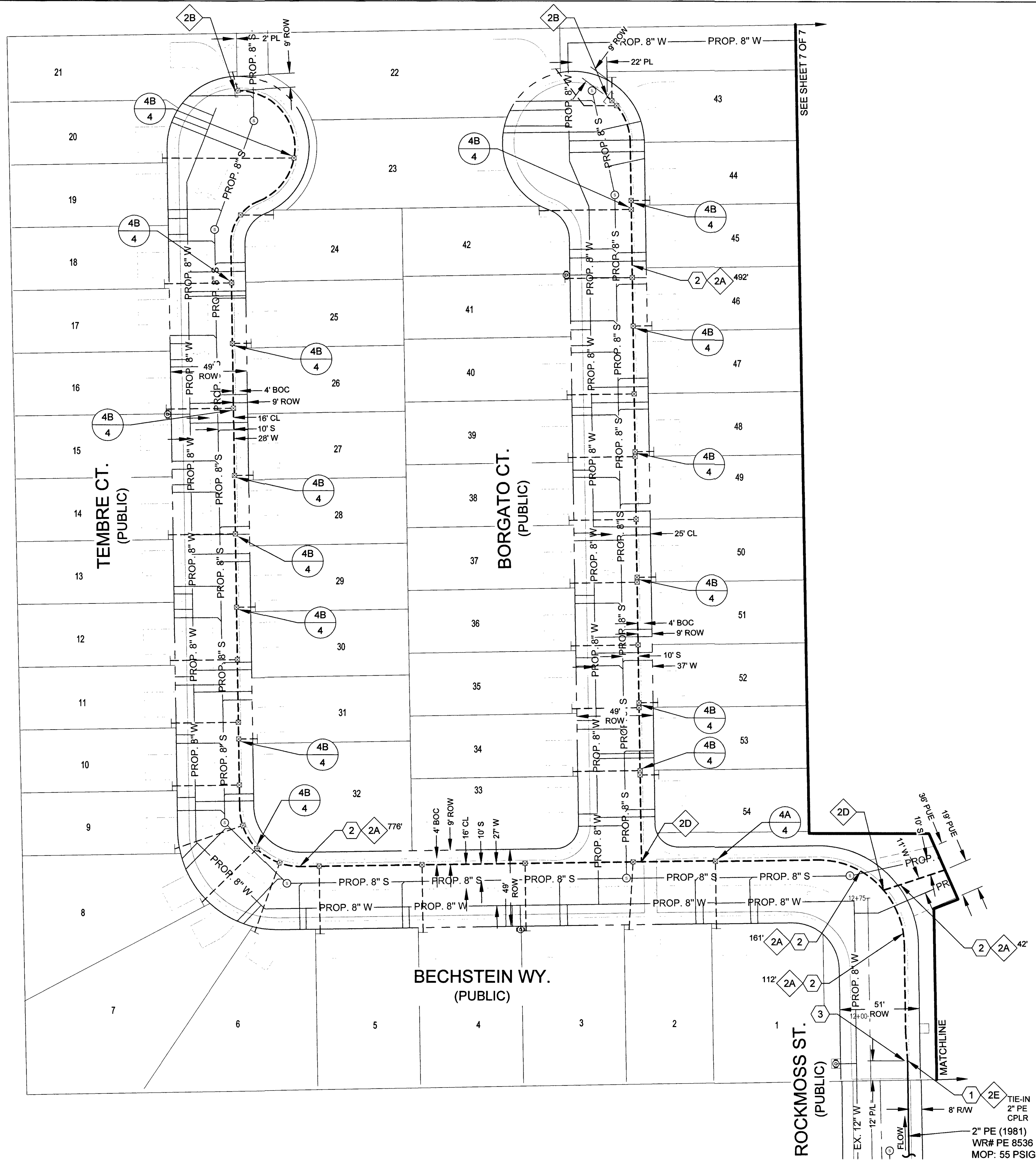
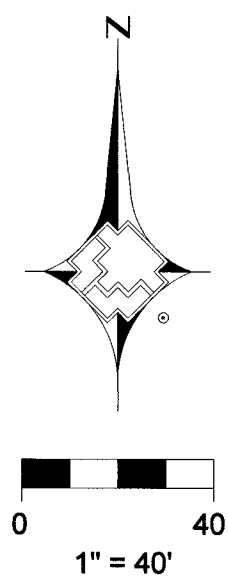
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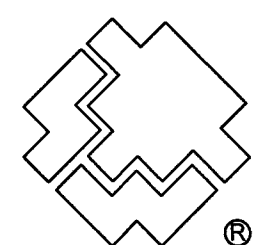
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REVISIONS					D_W_VALLEY		JOB TYPE		WR NO.		ENGINEER/TECHNICIAN		
						SYSTEM MAOP:	60	HP SERVICE	☐	3771778	AMANDA HENDERSON		
											ACCOUNT REP. TONY STIPANOV		
											PROJECT CONTACT DAVE VON OY		
NO.	DESCRIPTION			BY	DATE	APPVD.	SYSTEM MOP:	55	DISTRIBUTION	☒	SHEET NO. 5 OF 7		
										RELATED WR NO.S		SCALE N.T.S.	
												DWN. BY SEI	
												CHKD. BY AH	
												APPVD. BY BWJ	
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		☐	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'

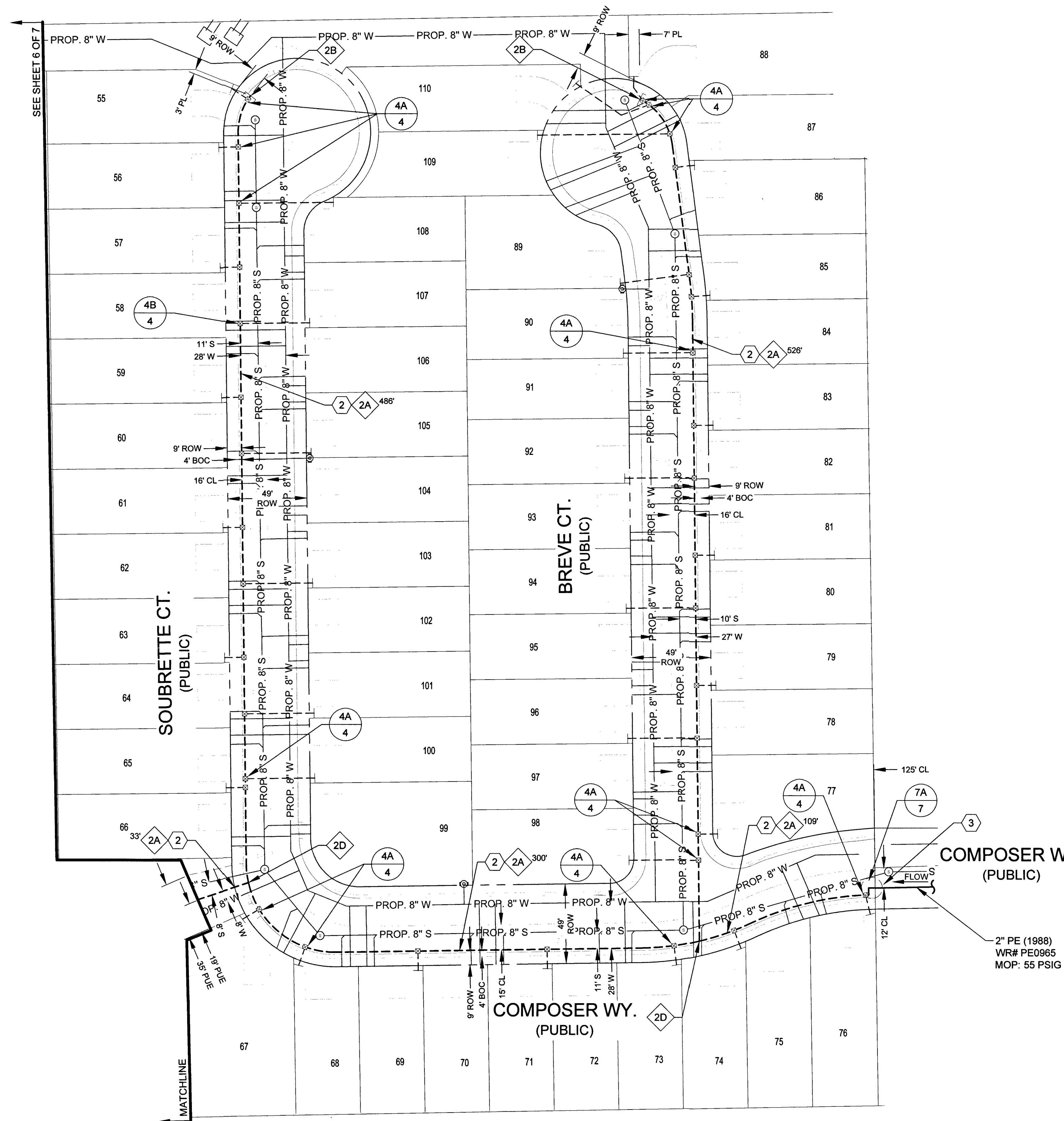
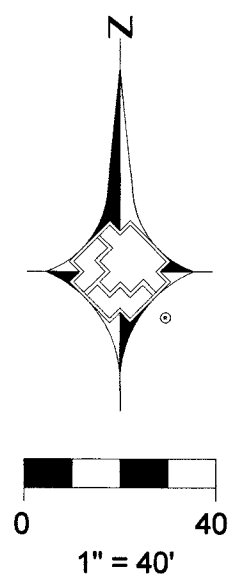


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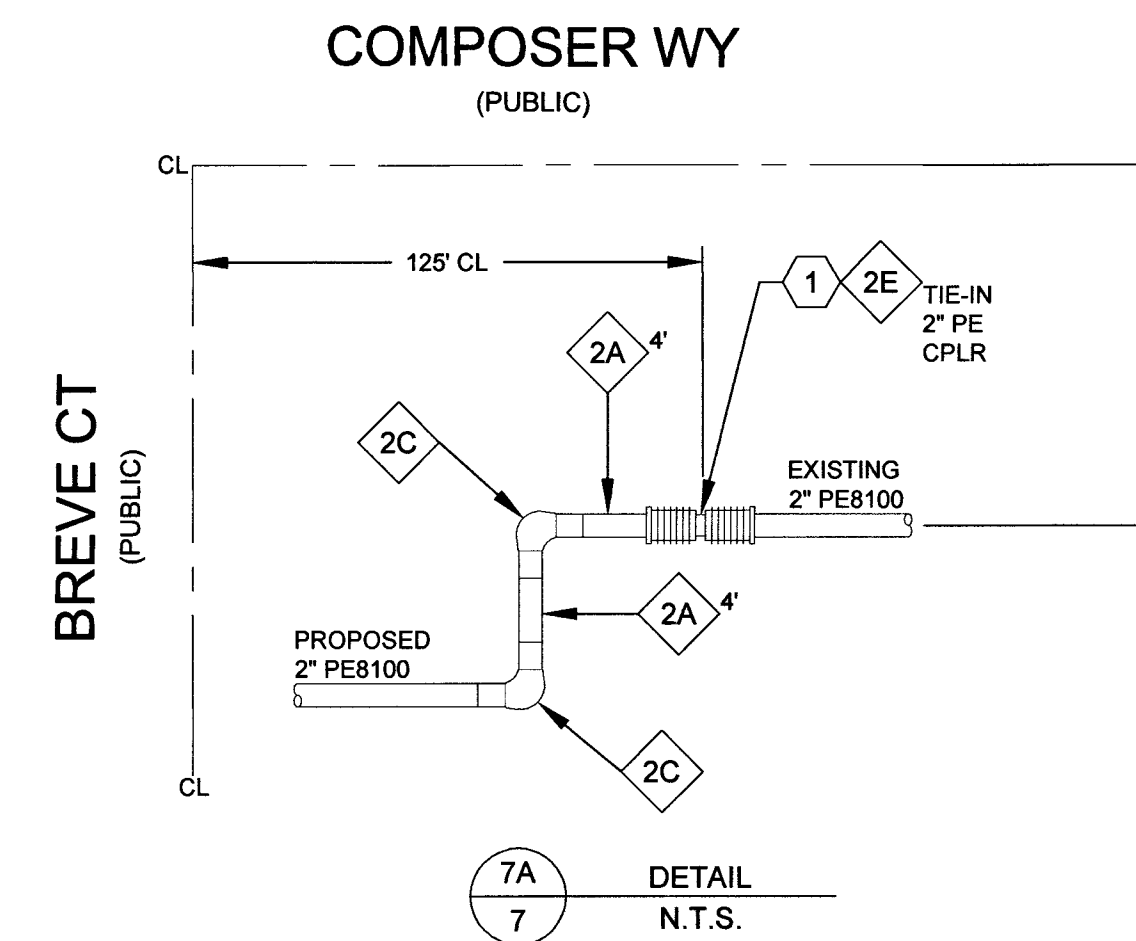
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REVISIONS					D_W_VALLEY		JOB TYPE	WR NO.	ENGINEER/TECHNICIAN	AMANDA HENDERSON	PHONE: (702) 365-2152
					SYSTEM MAOP:	60	HP SERVICE ☐	3771778	ACCOUNT REP.	TONY STIPANOV	PHONE: (702) 365-2053
					SYSTEM MOP:	55	DISTRIBUTION ☒		PROJECT CONTACT	DAVE 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 BWJ
PERMIT INFORMATION		ISOLATION AREA	LOCATION	ATLAS OR TILE			FEEDER ☐	RELATED WR NO.S	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% ☐				

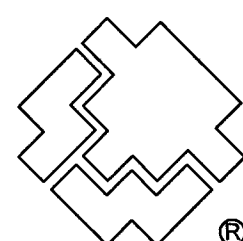


2" DISTRIBUTION MATERIALS LIST						
CODE	DESIGN QTY.	AS-BUILT QTY.	STOCK ID	DESCRIPTION	SEAM	COATING
2A	1,462'	0'	100-5101	2" PE 8100 PIPE	N/A	N/A
2B	2	0'	140-3060	2" PE CAP	N/A	N/A
2C	2	0	140-3067	2" PE 90 DEGREE ELBOW	N/A	N/A
2D	2	0	140-3074	2" PE FULL FLOW TEE	N/A	N/A
2E	1	0	140-3532	2" PE COUPLING	N/A	N/A

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



Know what's below.
Call before you dig.



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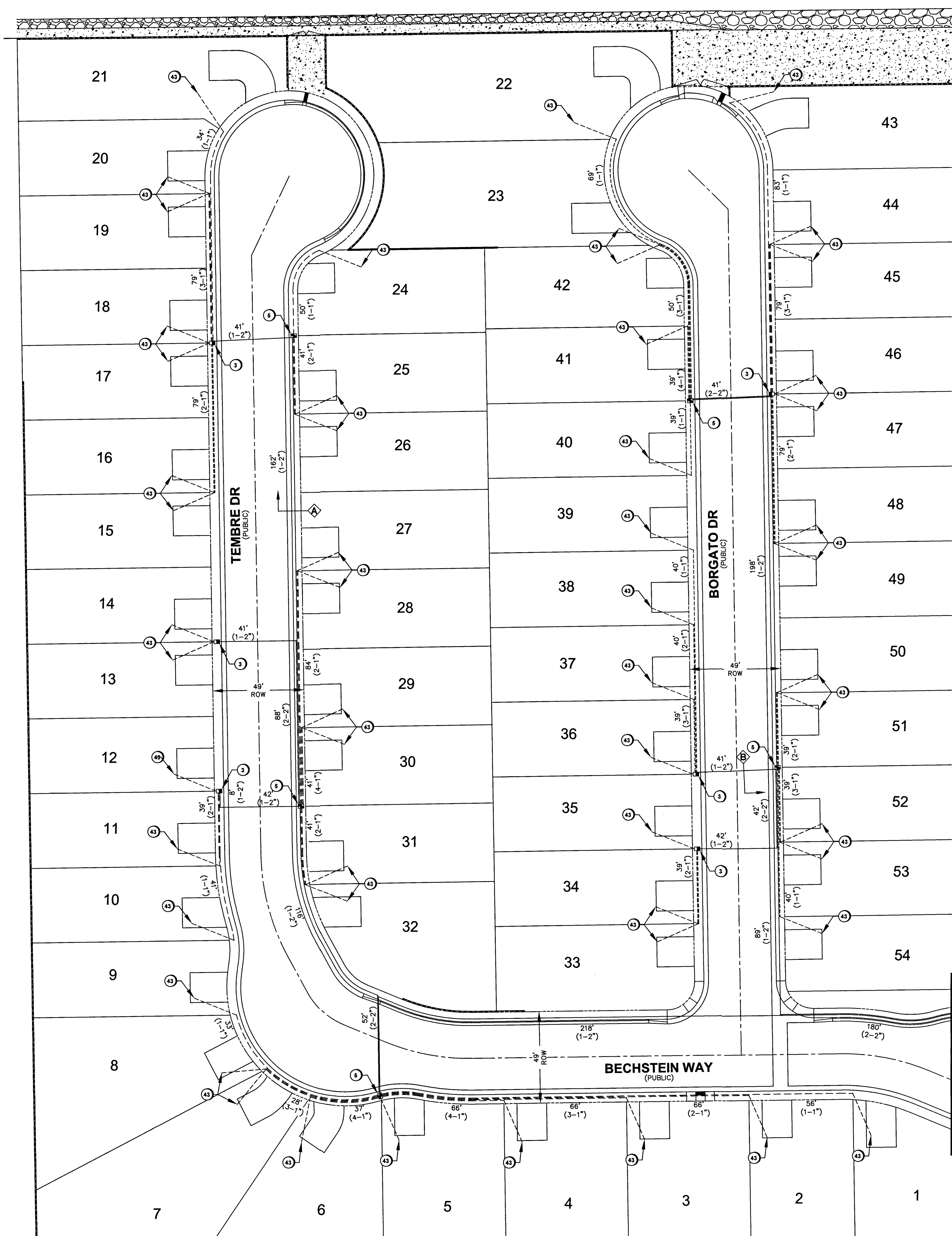
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REVISIONS				
NO.	DESCRIPTION	BY	DATE	APPVD.
PERMIT INFORMATION				
CITY OF LAS VEGAS TAX CODE: 02-0200	ISOLATION AREA ISO_21_DIST_232	LOCATION T20S R60E SEC 28 M.D.M.	ATLAS OR TILE x591y518	

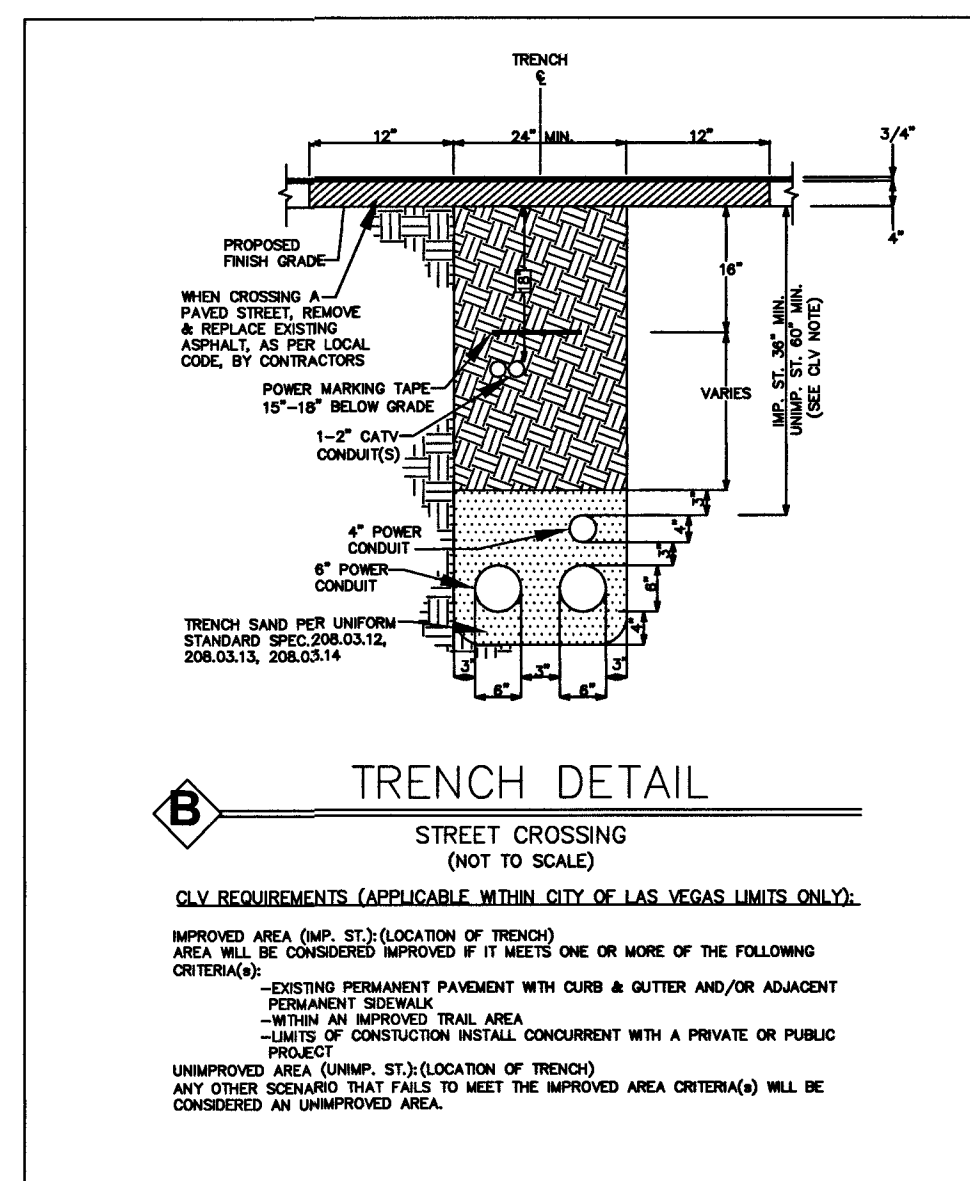
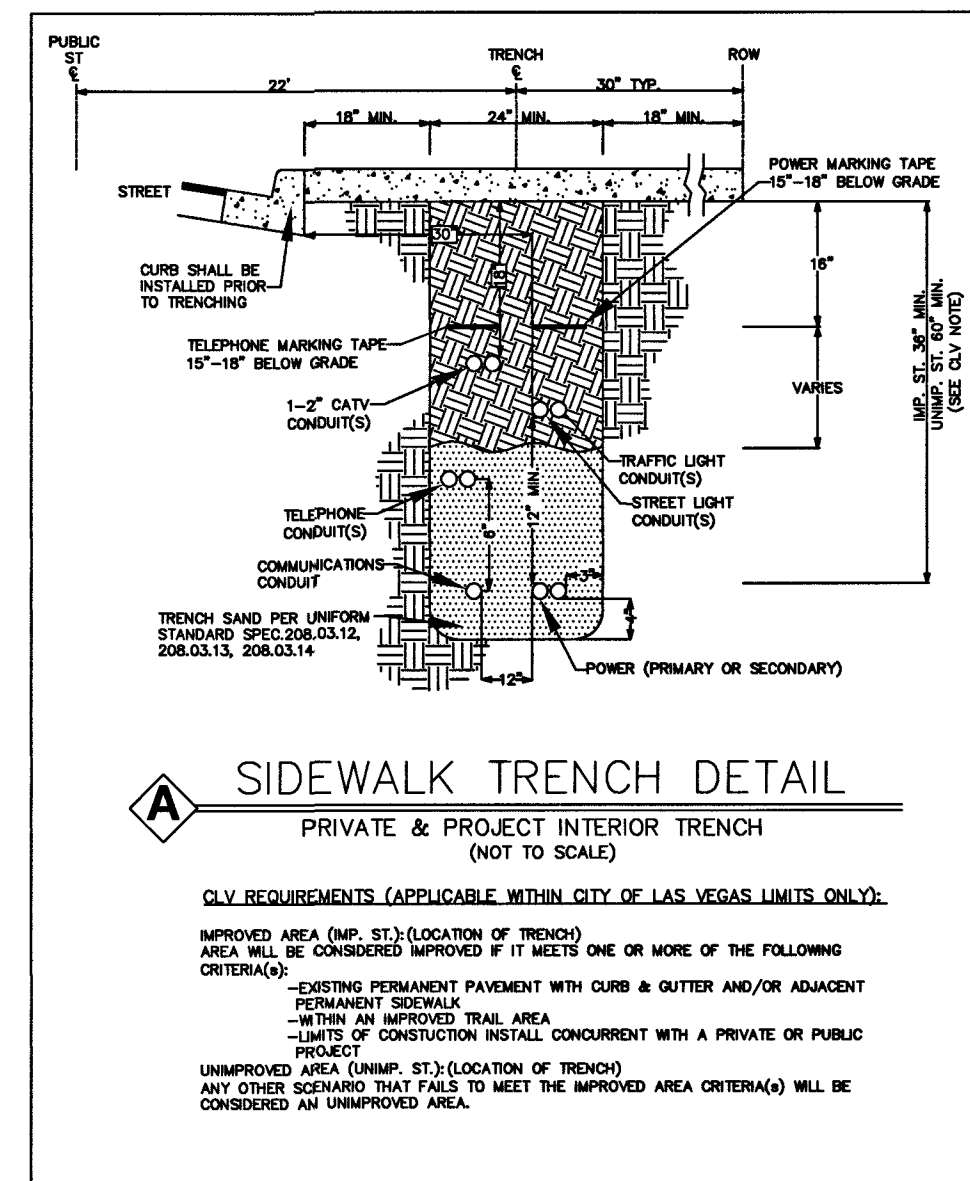
D_W VALLEY	
SYSTEM MAOP:	60
SYSTEM MOP:	55
JOB TYPE	
HP SERVICE	☐
DISTRIBUTION	☒
FEEDER	☐
TRANS. BY DEF	☐
TRANS > 20%	☐

WR NO.	
3771778	
RELATED WR NO.S	

ENGINEER/TECHNICIAN ACCOUNT REP. PROJECT CONTACT SHEET NO. 7 OF 7 DWN. BY SEI	AMANDA HENDERSON TONY STIPANOV DAVE VON OY SCALE 1" = 40' CHKD. BY AH	PHONE: (702) 365-2152 PHONE: (702) 365-2053 PHONE: (702) 376-7577 DATE 05/23/2019 APPVD. BY BWJ
BLM 33		
L18-02380 10745099		



MATCHLINE - SEE SHEET 2



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 T-200 CATV VAULT (30"x48"x36")
8	EXISTING T-200 CATV VAULT (30"x48"x36")
9	INSTALL T-400 CATV VAULT (36"x60"x36")
10	EXISTING T-400 CATV VAULT (36"x60"x36")
11	INSTALL T-600 CATV VAULT (48"x72"x36")
12	EXISTING T-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	P EXISTING NVE PULL BOX
28	T EXISTING TELCO PULL BOX
29	TM EXISTING TELCO MANHOLE
30	T EXISTING TELCO POLE
31	NVE EXISTING NVE POLE
32	NVE EXISTING NVE TRANSMISSION POLE
33	X EXISTING JOINT POLE
34	X EXISTING JOINT POLE WITH TRANSFORMER
35	POLE ANCHOR
36	NVE 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	

DISCLAIMER NOTE

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION 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.

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

AVOID OVERHEAD POWER LINE CONTACT

CALL BEFORE YOU OVERHEAD
1-702-227-2929
NEVADA POWER ENVIRONMENT AND SAFETY SERVICE DEPARTMENT

811

BEFORE YOU CALL
UNDERGROUND
1-702-455-7511
CLARK COUNTY TRAFFIC OPERATIONS
AND
1-702-432-5300
LAS VEGAS AREA COMPUTERIZED SYSTEM

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:

Entity Logo

Entity Name
COX COMMUNICATIONS

Entity Address
1700 VEGAS DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 545-1606
FAX: (702) 545-2606

Entity Contact
MICHAEL HERVIS

Entity Phone
702-545-1590

Entity Email
mhervis@cox.com

Entity Website
www.cox.com

Entity Fax
702-545-2606

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Entity Approved By
MICHAEL HERVIS

Entity License
40505190000RB20130

Entity Permit
RB-2013

Entity Drawn By
WTB

Entity Date
3/18/2019

Entity Scale
1:30

Entity Node
RB-2013

Entity Project #
40505190000RB20130

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1:30

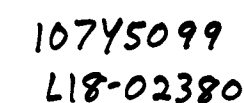
Entity Node
RB-2013

Entity Project #
40505190000RB20130

Entity Tech #
702-545-1590

Entity Approved By
MICHAEL HERVIS

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DISCLAIMER NOTE

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION 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. ITS COSTLY.



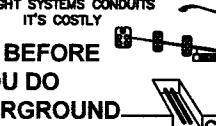
811

BEFORE YOU DIG

OR 1-800-227-2600

UNDERGROUND SERVICE (USA)

AVOID OVERHEAD POWER LINE CONTACT

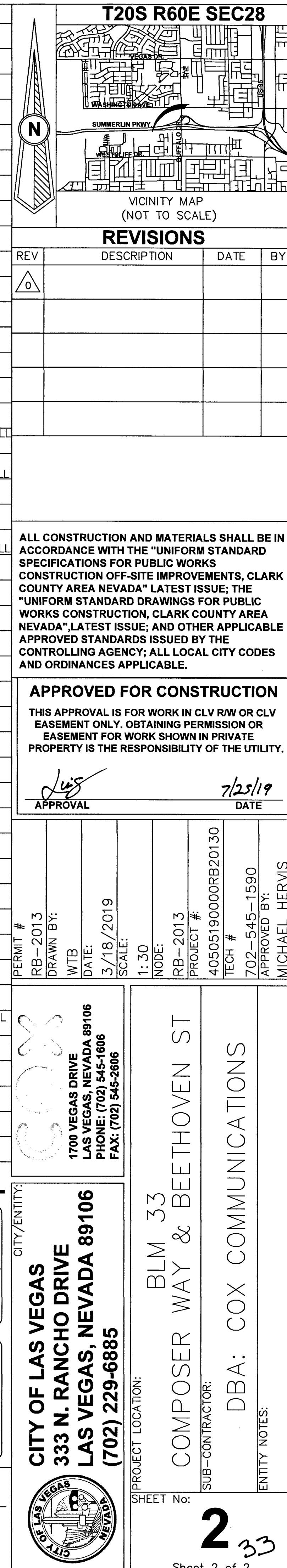


CALL BEFORE YOU OVERHEAD

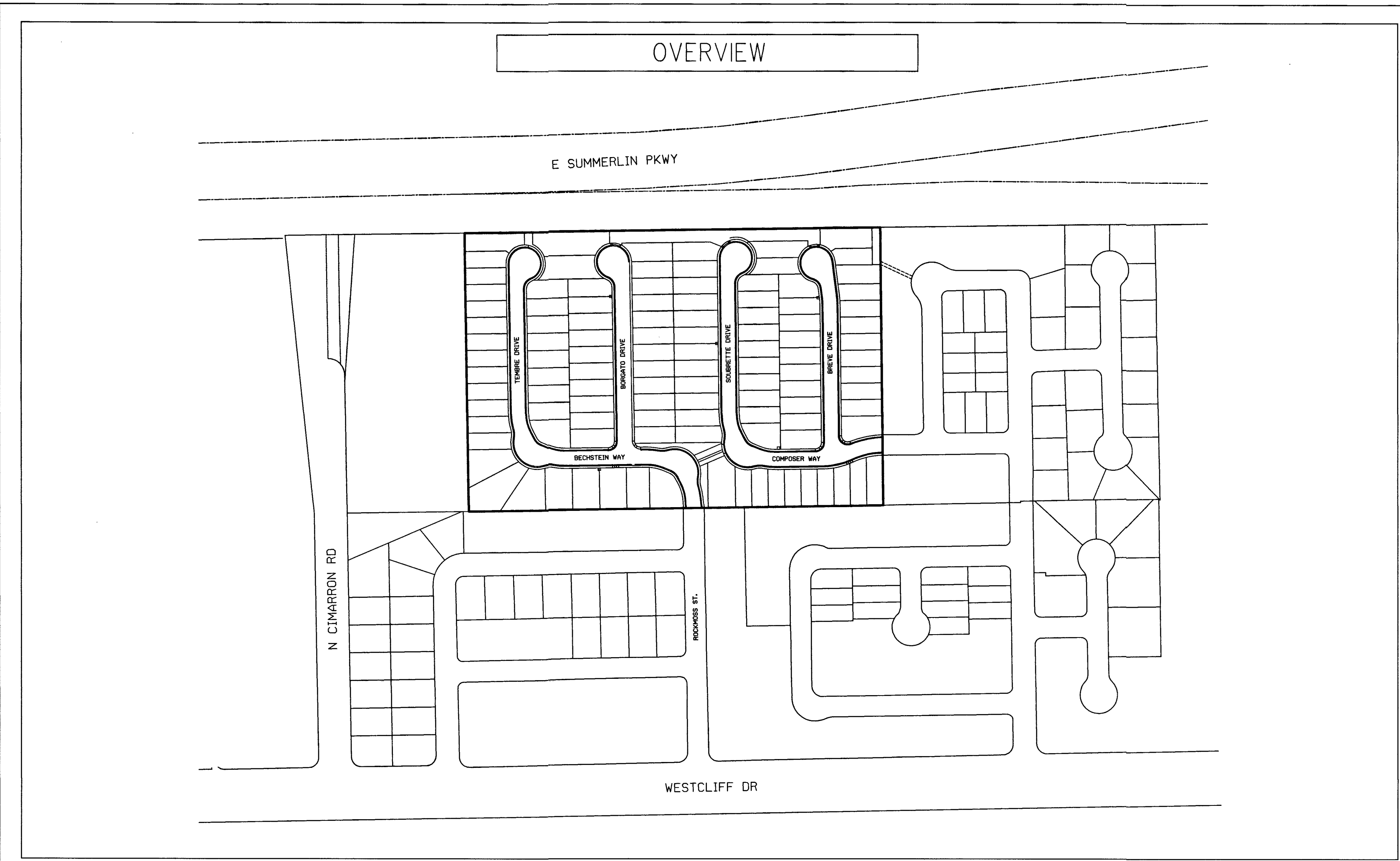
1-702-227-2929

NEVADA POWER AND SAFETY SERVICE DEPARTMENT

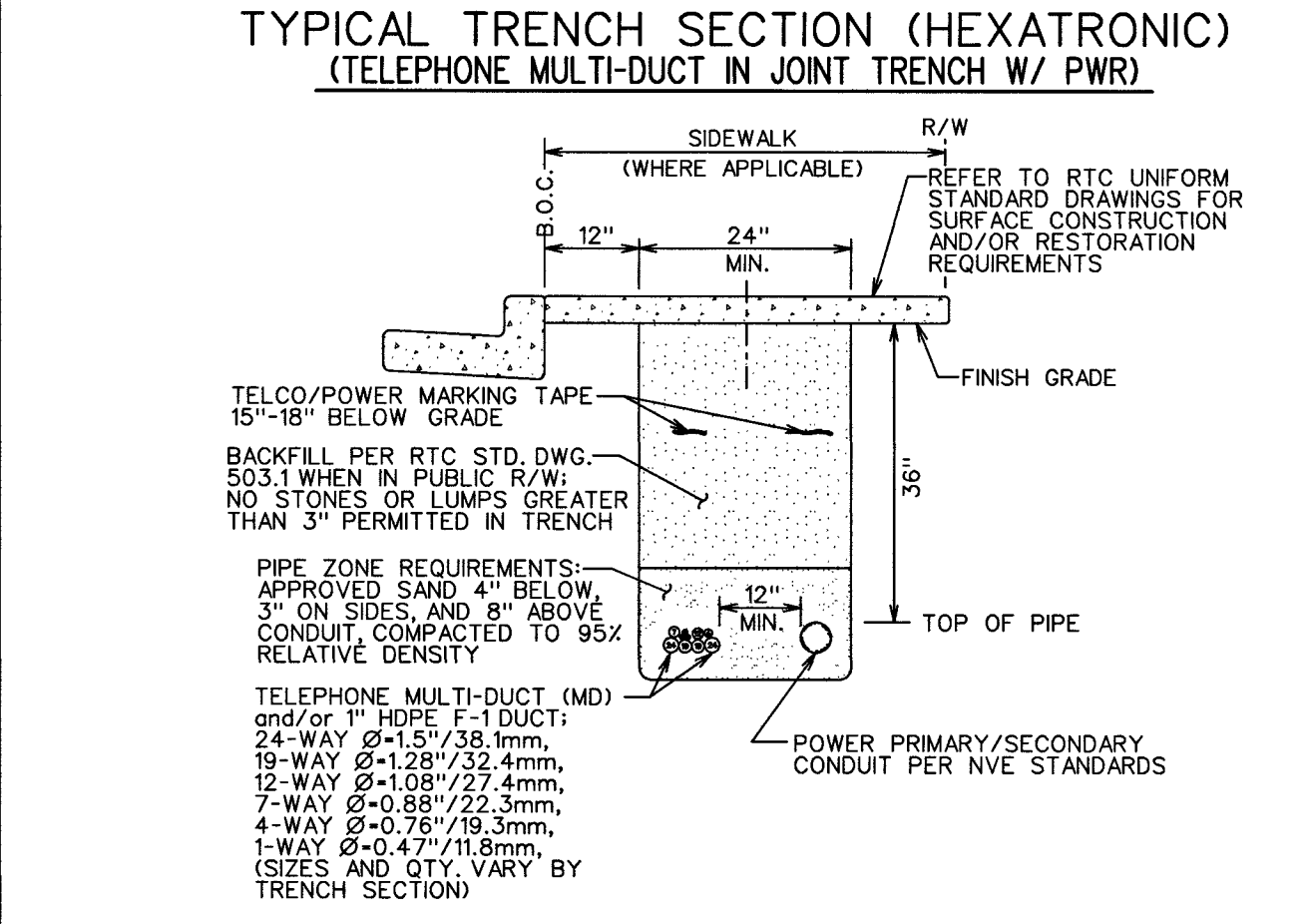
TOTAL BORE	0'
TOTAL DIRT TRENCH	0'
TOTAL ASPHALT TRENCH	0'
TOTAL TRENCH	0'
<u>SIDEWALK REMOVAL/REPAIR</u>	0'
TOTAL S/W PANELS	0'
TOTAL LINEAR FOOTAGE	0'



OVERVIEW



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



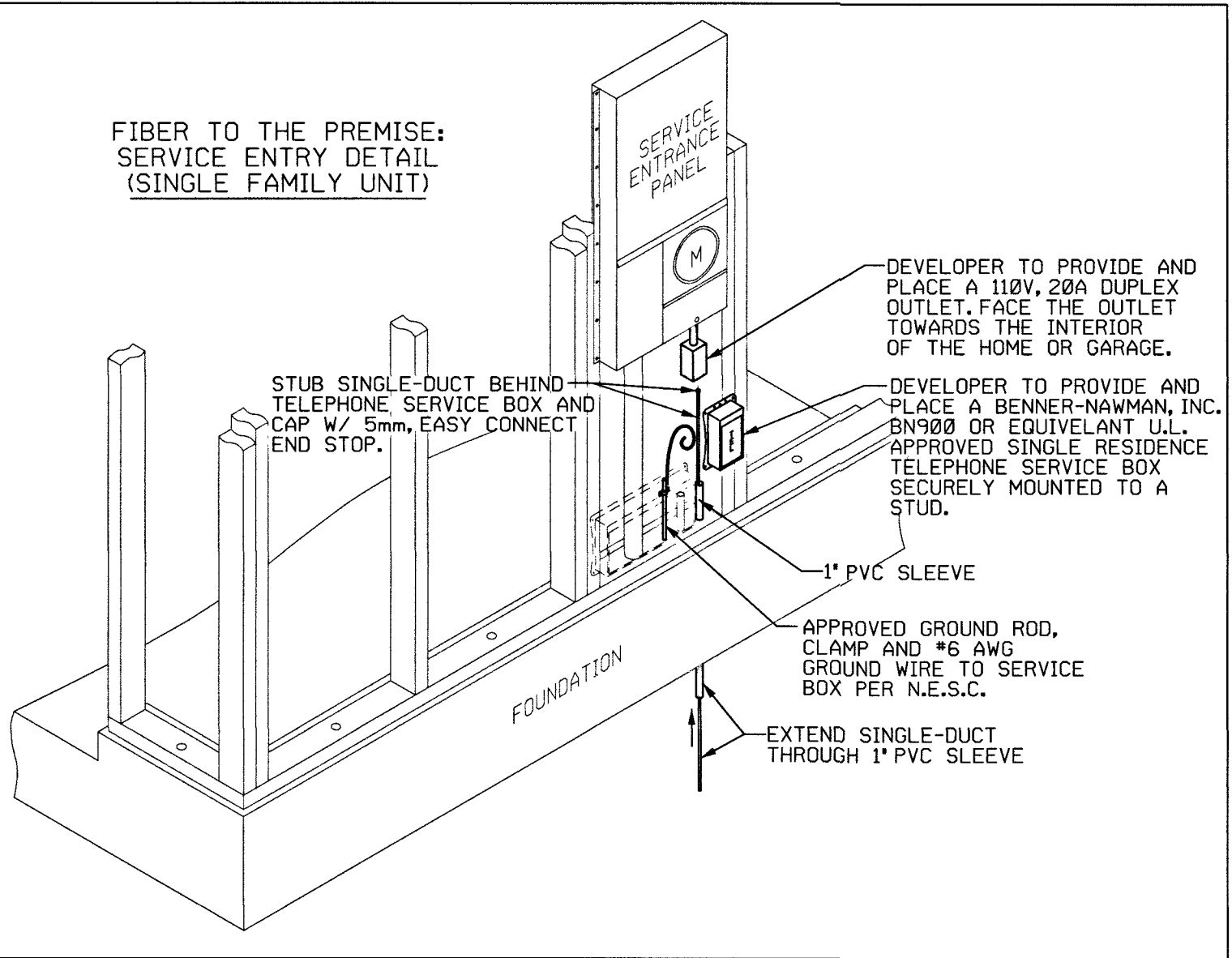
RTC SOUTHERN NEVADA NOTES:

- FOR ASPHALT CUT AND RESTORATION REQUIREMENTS, SEE RTC UNIFORM STANDARD DRAWING SERIES 500.1, 500.2, 500.3, 500.4 AND 500.5
- FOR SIDEWALK REMOVAL AND REPLACEMENT REQUIREMENTS SEE RTC UNIFORM STANDARD DRAWING 234
- FOR TYPICAL U.G. UTILITY LOCATIONS UNDER STREETS AND SIDEWALKS, SEE RTC UNIFORM STANDARD DRAWINGS 501 AND 501.1
- FOR BACKFILL REQUIREMENTS SEE RTC UNIFORM STANDARD DRAWING 503.1
- SEE COMPLETE RTC UNIFORM STANDARD DRAWINGS FOR FURTHER AGENCY REQUIREMENTS

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)



T&S LEGEND (HEXATRONIC)

- 24WMD-A = 24-WAY - MULTI-DUCT (MD) - Ø=1.57/38.1mm (LETTER INDICATES DUCT IDENTIFIER: 1, a, A)
- 19WMD-B = 19-WAY - MULTI-DUCT (MD) - Ø=1.287/32.4mm (LETTER INDICATES DUCT IDENTIFIER: 1, a, B)
- 12WMD-C = 12-WAY - MULTI-DUCT (MD) - Ø=1.089/27.4mm (LETTER INDICATES DUCT IDENTIFIER: 1, a, C)
- 7WMD-D = 7-WAY - MULTI-DUCT (MD) - Ø=0.889/22.3mm (LETTER INDICATES DUCT IDENTIFIER: 1, a, D)
- 4WMD-E = 4-WAY - MULTI-DUCT (MD) - Ø=0.787/19.3mm (LETTER INDICATES DUCT IDENTIFIER: 1, a, E)
- 2WMD-F = 2-WAY - MULTI-DUCT (MD) - Ø=0.787/19.3mm (LETTER INDICATES DUCT IDENTIFIER: 1, a, F)
- SD(4) = 1-WAY - SINGLE-DUCT (SD) - Ø=0.47/11.8mm (NMBR IN PARENTHESES INDICATES QUANTITY OF SINGLE-DUCT IN EACH TRENCH SECTION)
- ØJC = DUCT JOINT CLOSURE (ØJC): ATTACH A LOCATOR BALL AT EACH ØJC LOCATION.

GATE SERVICE CABINET (24" x 24" x 8") W/ 110V OUTLET:
U.L. APPROVED, RAIN-TIGHT WITH A NON-LOCKING, SIDE-HINGED DOOR, EQUIPPED INSIDE WITH A 3/4" PLYWOOD BACKBOARD (1" SMALLER ON ALL SIDES, CENTERED IN CABINET) SECURED WITH RECESSED MOUNTING HARDWARE AND A # 6 GROUND WIRE CONNECTED TO AN APPROVED GROUNDING SOURCE. MOUNT CABINET AT EYE LEVEL. A MINIMUM OF 36" ABOVE FINISH GRADE. INCLUDE 1" SLEEVE FROM BOTTOM OF CABINET TO BELOW GRADE FOR INCOMING SERVICE AND ONE (Ø) DEDICATED 110V/20A, NON GFI, DUPLEX RECEPTACLE WIRED TO MAIN GATE POWER.

EXISTING

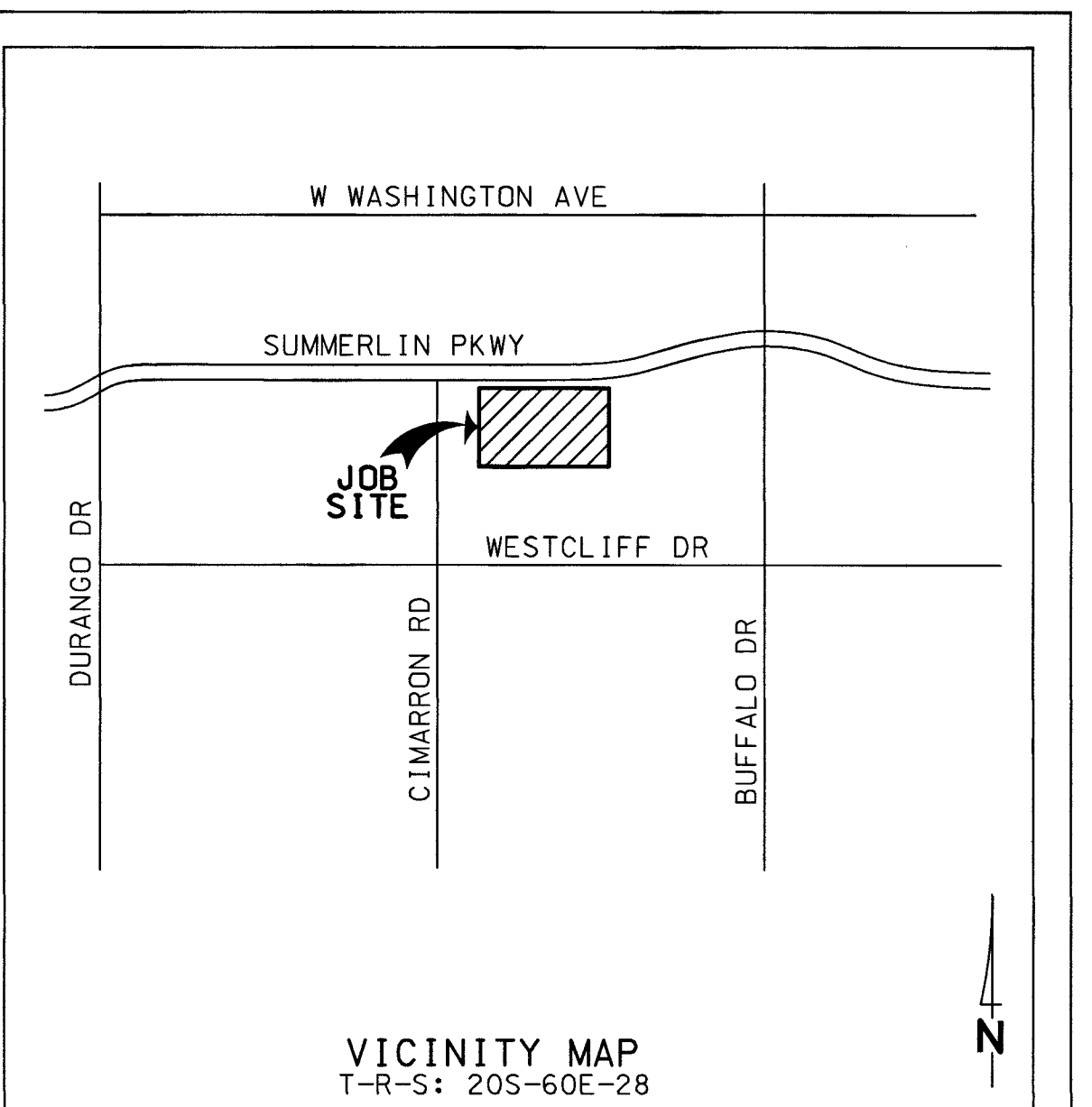
100 PULL BOX (24" x 36" x 36" I.D.) - POLYMER CONCRETE TYPE PULL BOX. 100 PULL BOXES TO BE PROVIDED BY AND DELIVERED TO THE JOB SITE BY CENTURYLINK.

FDH PAD & GND. - REFER TO HEXATRONIC INSTALL GUIDE AND 4'x4'x6" FDH PAD DETAILS ON PLAN SHEETS

STANDARD LEGEND

- PROPOSED CONDUIT: P.V.C. - D.B. (DIRECT BURIAL) GRADE: D.B. 60 FOR 1", 2", & 3" D.B. 100 FOR 4"
- EXISTING CONDUIT HOPE - SDR-11 FOR 1.00"
- 45°/90° RADIAL BENDS - FACTORY FORMED SCHEDULE 40 P.V.C. 24" RADIUS FOR 1" / 36" RADIUS FOR 2" / 48" RADIUS FOR 4"
- EXISTING CONDUIT STUBS: SEE PLAN FOR SIZE/ØTY.
- EXISTING MANHOLE - REFER TO DRAWING FOR SIZE/TYPE.
- EXISTING 400 PULL BOX (3'0" x 5'0" x 4'0" I.D.)
- EXISTING 200 PULL BOX (3'0" x 4'8" x 3'6" I.D.)
- EXISTING 100 PULL BOX (2'4" x 3'6" x 3'6" I.D.)
- EXISTING 30 PULL BOX (1'7" x 3'0" x 3'0" I.D.)
- EXISTING POWER/TELEPHONE POLE
- EXISTING TELEPHONE ANCHOR
- EXISTING OVERHEAD POWER AND TELEPHONE CABLE(S)
- TELEPHONE TERMINAL CABINET (T.T.C.) AND GROUND: REFER TO DRAWING FOR SIZE/TYPE.
- TELEPHONE TERMINAL BACKBOARD (T.T.B.) AND GROUND: REFER TO DRAWING FOR SIZE/TYPE.
- Right-Of-Way or Property Line
- Centerline

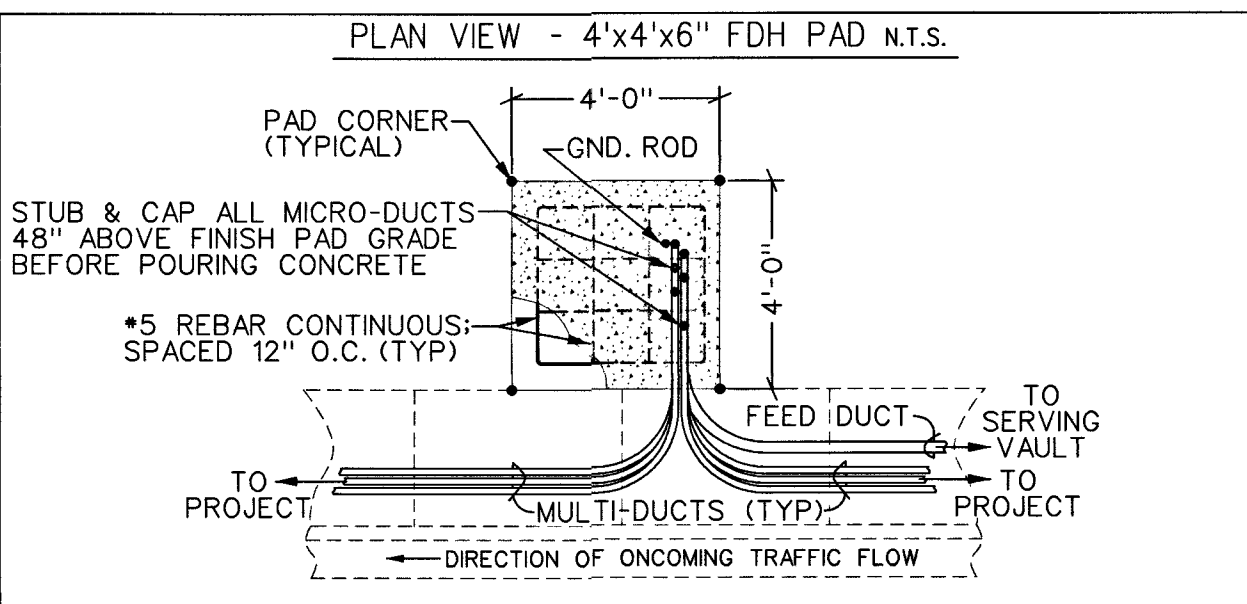
VICINITY MAP
T-R-S: 20S-60E-28



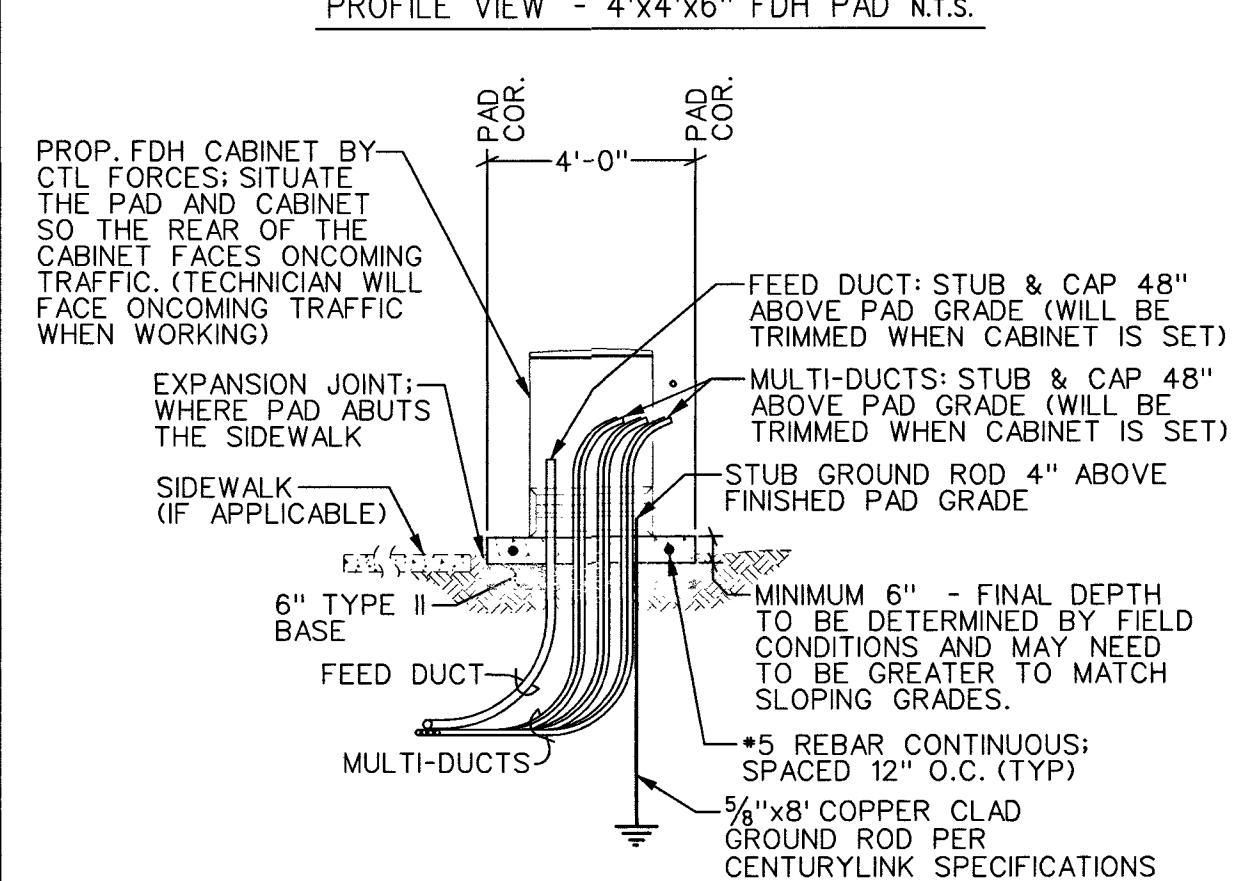
GENERAL NOTES FOR T&S (HEXATRONIC)

- ALL CONSTRUCTION SHALL CONFORM TO THE NEVADA DIVISION OF CENTURYLINK SPECIFICATIONS. SEE LATEST ISSUE FOR THE INSTALLATION OF UNDERGROUND RESIDENTIAL DISTRIBUTION TELEPHONE SYSTEM.
- TRENCHING, BACKFILLING AND RESTORATION WORK ARE TO BE PROVIDED BY THE DEVELOPER AND SHALL CONFORM TO THE REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA (RTC) UNIFORM STANDARD DRAWINGS.
- ANY CONDUIT PLACED FOR DEVELOPER'S CONVENIENCE (I.E. STREET CROSSING, STUB-OUTS FOR FUTURE UNITS) WILL BE PLACED AT DEVELOPER'S EXPENSE.
- TELEPHONE BOXES ARE TO BE PLACED IN THE SIDEWALK AREA WHENEVER POSSIBLE AND SITUATED TO AVOID DRIVEWAYS AND HANDICAP RAMPS (UNLESS SHOWN OR NOTED OTHERWISE). ALL TRENCHING WILL BE OF A MINIMUM DEPTH TO MAINTAIN 36" COVER FROM FINAL GRADES TO TOP OF PIPE (EXCEPT WHEN ENTERING TELEPHONE BOXES). MAINTAIN 12" MINIMUM SEPARATION FROM FOREIGN UTILITIES. BOXES WILL BE ESTABLISHED TO FINISH GRADE.
- TRENCH AND SUBSTRUCTURE TO A RESIDENCE MUST BE 18" FROM THE SIDE LOT LINE WITH A MINIMUM DEPTH TO MAINTAIN 30" COVER FROM FINISH GRADE AND 12" MINIMUM SEPARATION FROM FOREIGN UTILITIES.
- CABLE RACKS WILL BE INSTALLED IN ALL 2'-0" X 3'-0" X 3'-0" PULL BOXES AND LARGER PER CENTURYLINK SPECIFICATIONS.
- ALL TELEPHONE BOXES NOT IN SIDEWALK AREAS WILL BE REQUIRED TO HAVE A PROTECTIVE CONCRETE COLLAR, RE-ENFORCED WITH REBAR, POURED AROUND THE TOP PORTION OF THE BOX PER CENTURYLINK SPECIFICATIONS.
- WHEN JOINING EXISTING STUB-OUTS, THE LOCATION AND VALIDITY OF THE STUB-OUTS ARE ASSUMED AND BASED OFF RECORDS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF THE EXISTING CONDUIT STUB-OUT. THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE, PROVE AND PLACE PULL STRING IN THE EXISTING CONDUIT AS PART OF CONNECTING TO THE STUB FOR EXTENSION TO THIS PROJECT. IF THE CONDUIT CANNOT BE PROVED OR IS IDENTIFIED AS BEING DAMAGED THEN THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR THE DUCTS WHERE DAMAGED OR INSTALL NEW CONDUIT BACK TO THE EXISTING TRUE POINT OF RE-ENFORCABLE SERVICE (I.E. MANHOLE OR PULL BOX) AT THE DEVELOPER'S EXPENSE.
- THE CONTRACTOR SHALL PROVE AND MANDREL ALL PVC CONDUIT AFTER BACKFILLING WHILE A CENTURYLINK INSPECTOR IS PRESENT. MANDREL SIZE IS TO BE 1/4" SMALLER THAN THE INSIDE DIAMETER OF THE CONDUIT.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL A MEASURING TAPE CONSISTING OF WATER PROOF, 400 POUND TENSILE STRENGTH, MARKED IN ONE FOOT OR LESS INCREMENTS IN AT LEAST ONE DUCT OF ALL PVC CONDUIT SECTIONS. ALL OTHER DUCTS IN A MULTIPLE PVC DUCT SYSTEM WILL HAVE A 3/32" JET LINE PULL STRING WITH 400 POUND TENSILE STRENGTH (APPLIES TO PVC PIPE ONLY).
- A POLYETHYLENE DUCT PLUG SHALL BE INSTALLED IN ALL PVC CONDUIT WHERE TERMINATED OR STUBBED.
- CAP AND LABEL ALL SINGLE-DUCT'S (SD'S) AT THE LOT LINES, AS SHOWN ON THE PLANS, UNTIL SIDE-LOT TRENCHES ARE OPEN. LEAVE 18" OF SD ON TRANSFORMER LOTS AND 8' OF SD ON NON-TRANSFORMER LOTS FOR FUTURE EXTENSION.
- BOND ALL MULTI-DUCT AND SINGLE-DUCT AS REQUIRED.
- THE DEVELOPER SHALL PROVIDE A # 6 COPPER GROUND WIRE FROM EACH TERMINAL CABINET, BACKBOARD AND/OR NETWORK INTERFACE DEVICE (NID) FOR A SINGLE FAMILY UNIT TO A COMMON GROUND WITH NV ENERGY PER THE NATIONAL ELECTRIC SAFETY CODE SPECIFICATIONS. ALL TERMINAL CABINETS WILL HAVE A 2" METAL RISER.
- IN ORDER TO INSURE ADEQUATE FACILITIES ARE PROVIDED FOR THIS PROJECT, IT IS IMPERATIVE THAT THIS TRENCH AND SUBSTRUCTURE DESIGN NOT BE CHANGED WITHOUT CENTURYLINK OUTSIDE PLANT ENGINEERING APPROVAL.
- CALL 244-7811 TO SCHEDULE INSPECTIONS 24 HOURS IN ADVANCE. REQUESTS RECEIVED AFTER 11:00 AM MAY NOT BE SCHEDULED FOR THE FOLLOWING WORKDAY. 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.

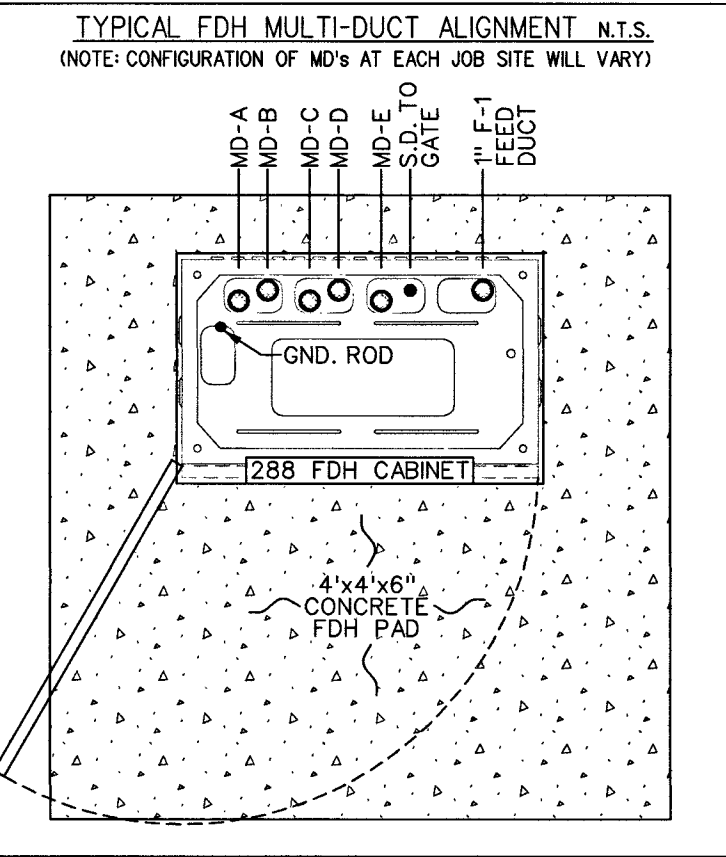
PLAN VIEW - 4'x4'x6" FDH PAD N.T.S.



PROFILE VIEW - 4'x4'x6" FDH PAD N.T.S.



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.

THIS DRAWING MAY SHOW APPROXIMATE LOCATIONS OF KNOWN UTILITIES IN THE IMMEDIATE VICINITY OF THE WORK TO BE DONE, BUT CENTURYLINK DOES NOT GUARANTEE OR ASSUME LIABILITY FOR THEIR POSITION OR DEPTH. CONTRACTORS SHALL DETERMINE TO THEIR SATISFACTION THE ACTUAL POSITION AND DEPTH OF EXISTING UTILITIES AS THEY WILL ASSUME THIS LIABILITY DURING THE PERFORMANCE OF THIS WORK.

APPROVED FOR CONSTRUCTION

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

APPROVAL

7/25/19

DATE

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.

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

Project * N.503475

WC CLLI: LSVGNVXW

Community Name: BLM 33 SUBDIVISION

Remote Switch Exchange Key: N/A

Exchange Key: WEST WEST

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

City of Las Vegas Permit Required

Developer/Contractor shall obtain a city permit before any excavation work within city of Las Vegas right-of-way

CenturyLink Inspector will verify city permit for work done within city of Las Vegas right-of-way

Inspector: DATE:

OR 1-800-227-2600

CenturyLink

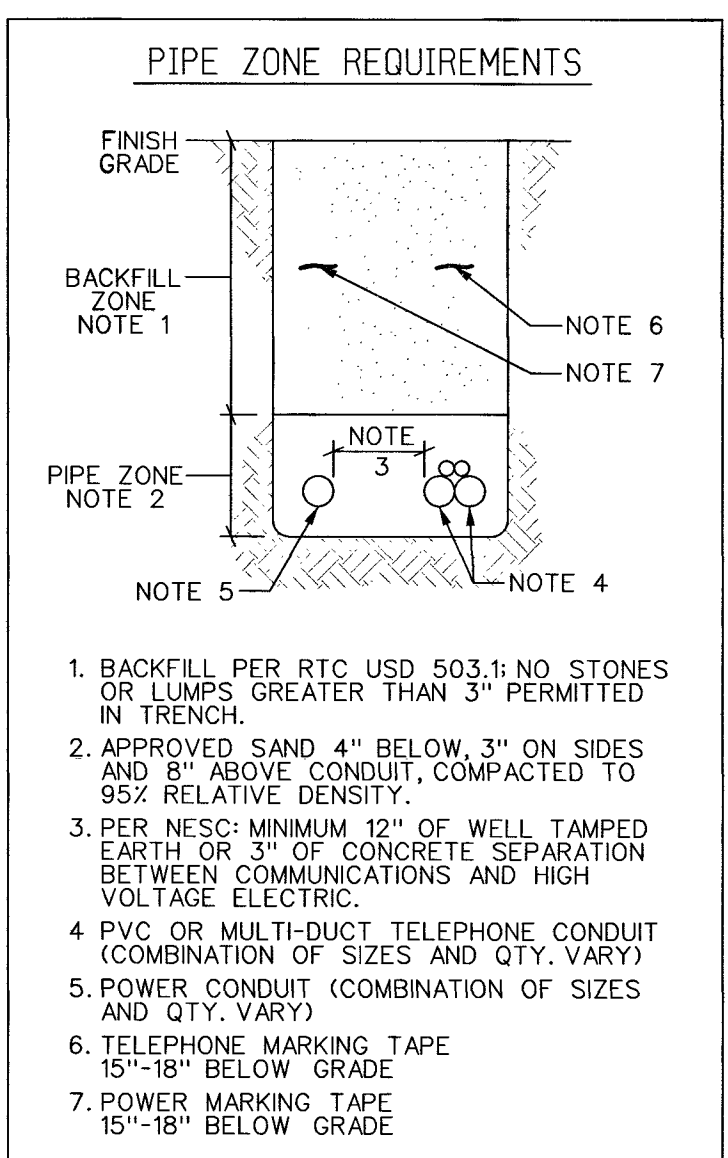
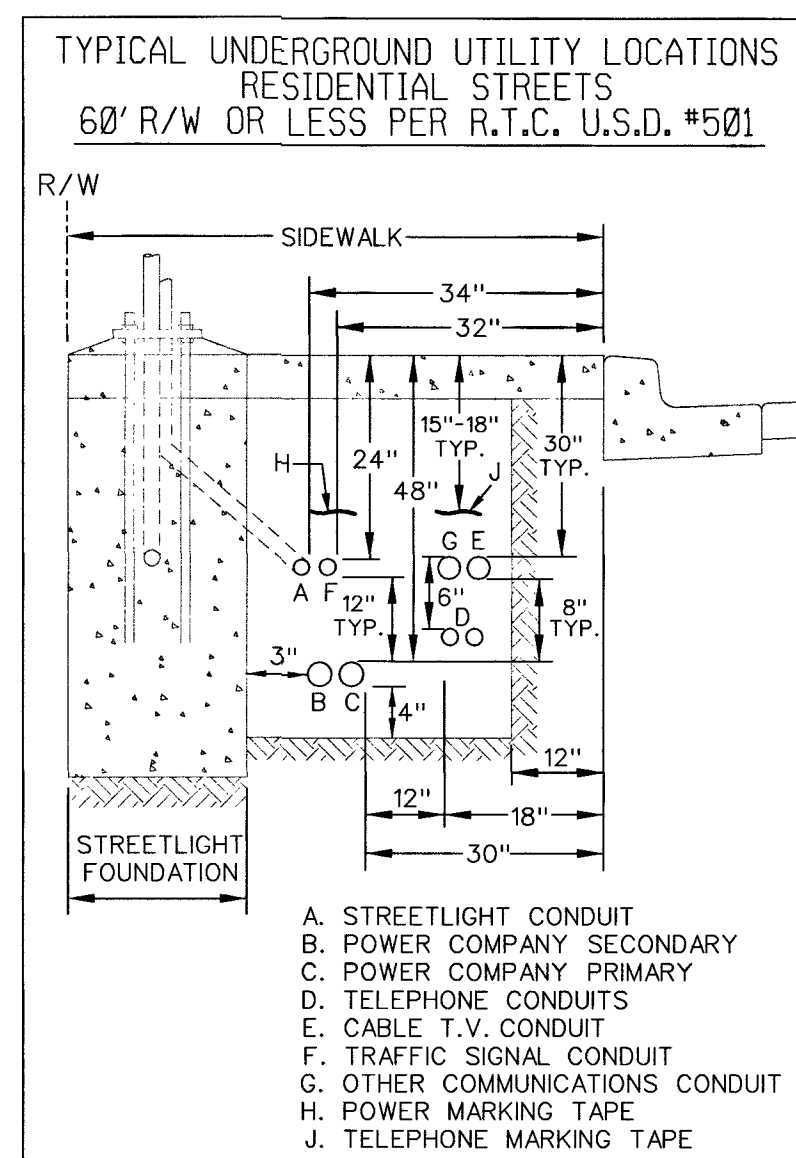
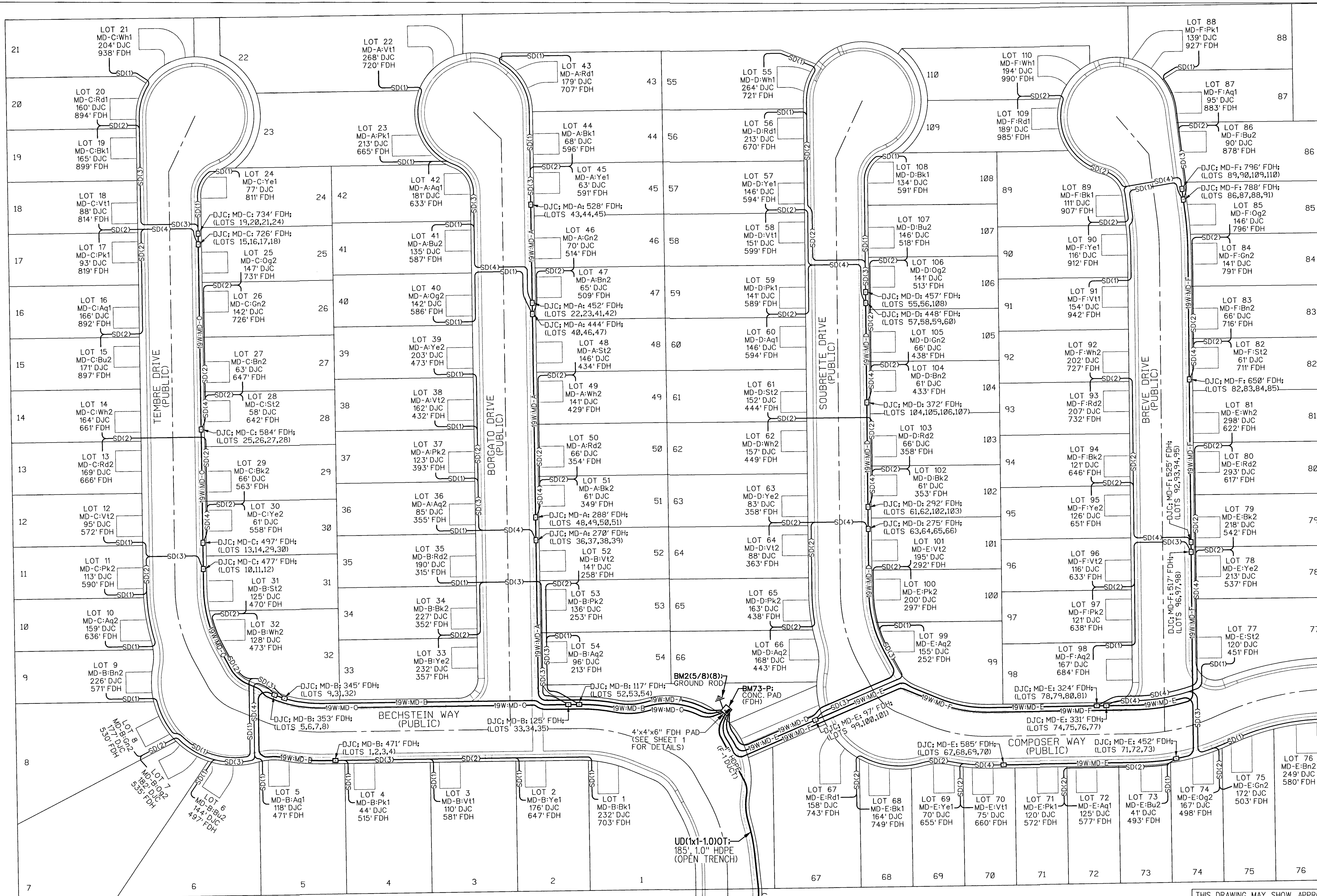
CONFIDENTIAL-Disclose and Distribute Solely to CTL Employees Having a Need to Know.

Sheet: 1

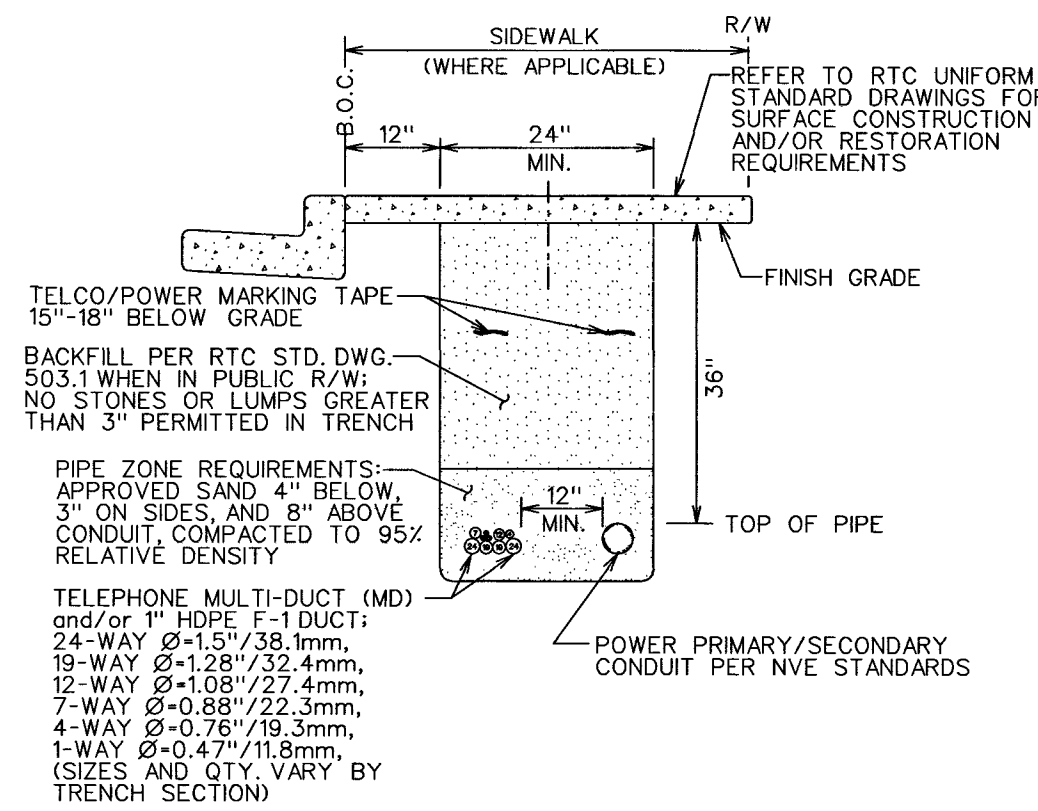
Issue Date: 3/4/19

10745099

118-02380



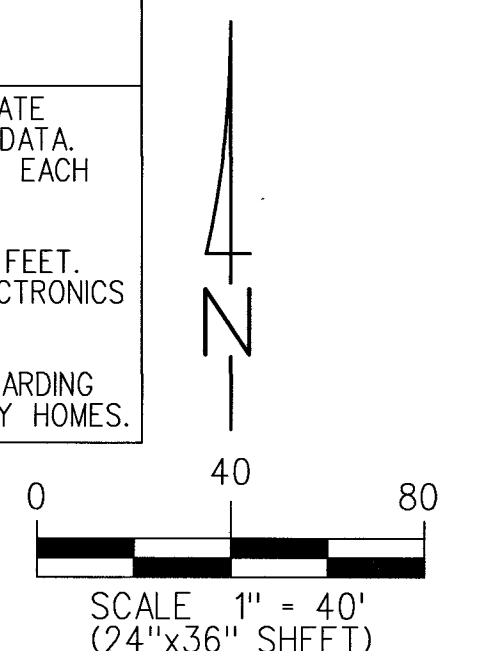
TYPICAL TRENCH SECTION (HEXATRONIC) (TELEPHONE MULTI-DUCT IN JOINT TRENCH W/ PWR)



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.

RTC SOUTHERN NEVADA NOTES:
• FOR ASPHALT CUT AND RESTORATION REQUIREMENTS, SEE RTC UNIFORM STANDARD DRAWING SERIES 500.1, 500.2, 500.3, 500.4 AND 500.5
• FOR SIDEWALK REMOVAL AND REPLACEMENT REQUIREMENTS SEE RTC UNIFORM STANDARD DRAWING 234
• FOR TYPICAL U.G. UTILITY LOCATIONS UNDER STREETS AND SIDEWALKS, SEE RTC UNIFORM STANDARD DRAWINGS 501 AND 501.1
• FOR BACKFILL REQUIREMENTS SEE RTC UNIFORM STANDARD DRAWING 503.1
• SEE COMPLETE RTC UNIFORM STANDARD DRAWINGS FOR FURTHER AGENCY REQUIREMENTS

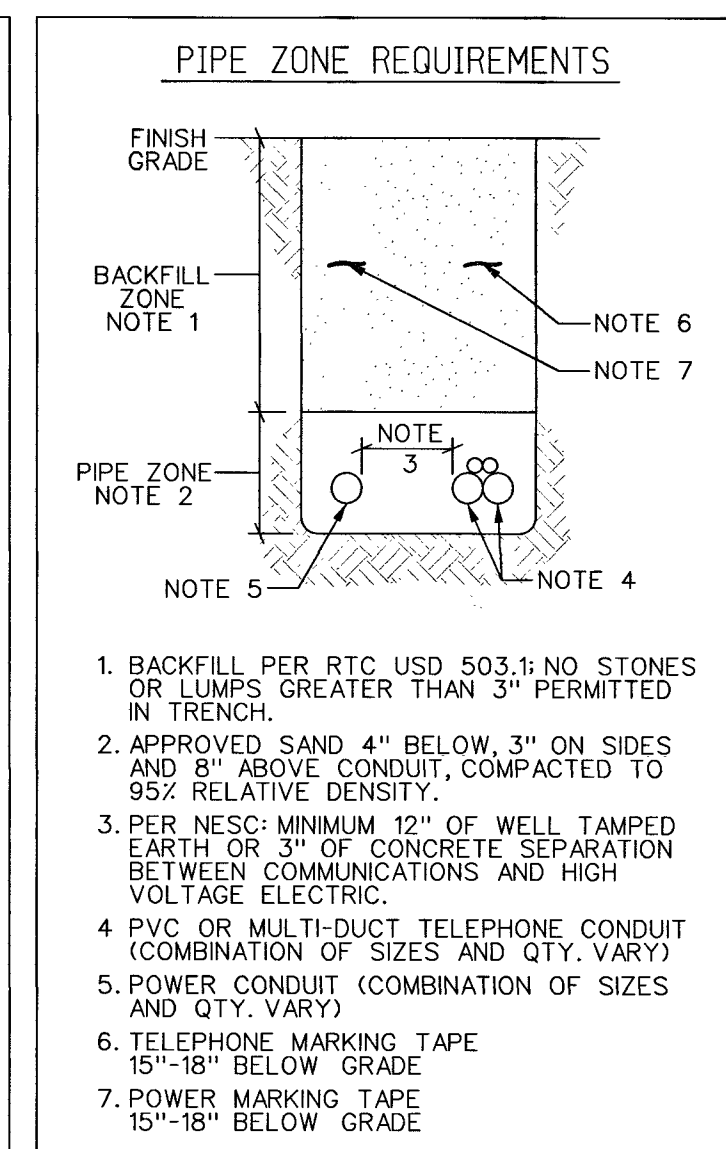
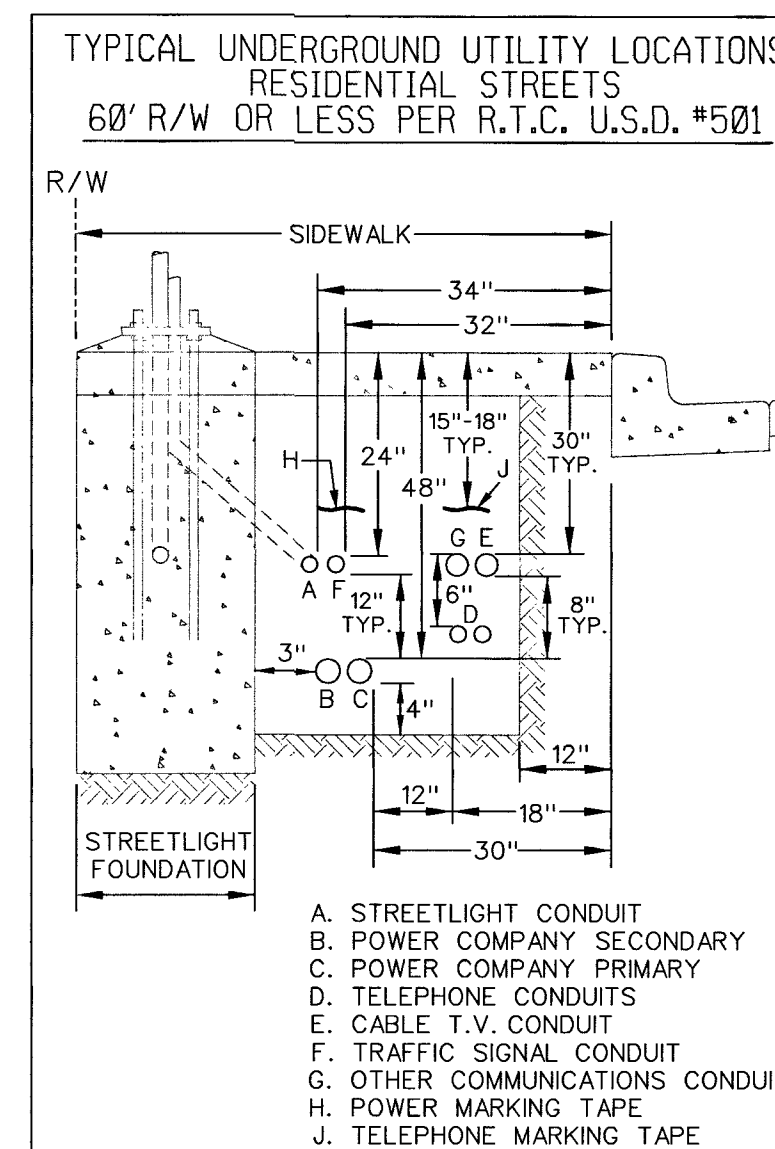
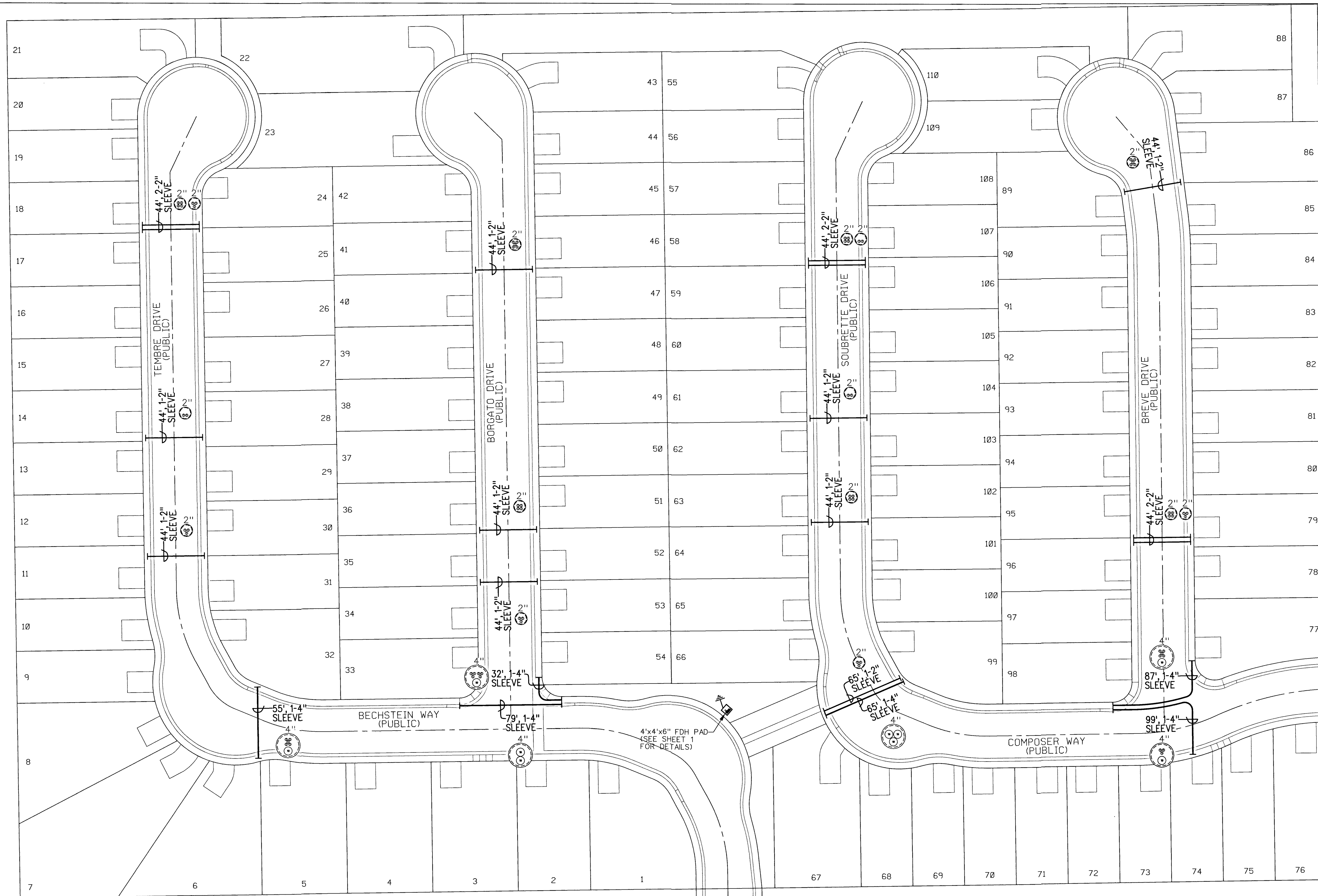
THIS DRAWING MAY SHOW APPROXIMATE LOCATIONS OF KNOWN UTILITIES IN THE IMMEDIATE VICINITY OF THE WORK TO BE DONE, BUT CENTURYLINK DOES NOT GUARANTEE OR ASSUME LIABILITY FOR THEIR POSITION OR DEPTH. CONTRACTORS SHALL DETERMINE TO THEIR SATISFACTION THE ACTUAL POSITION AND DEPTH OF EXISTING UTILITIES AS THEY WILL ASSUME THIS LIABILITY DURING THE PERFORMANCE OF THIS WORK.
APPROVED FOR CONSTRUCTION
THIS APPROVAL IS FOR WORK IN CLV R/W OR CLV EASEMENTS ONLY. OBTAINING PERMISSIONS OR EASEMENTS FOR WORK SHOWN ON PRIVATE PROPERTY IS THE RESPONSIBILITY OF THE UTILITY.
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.

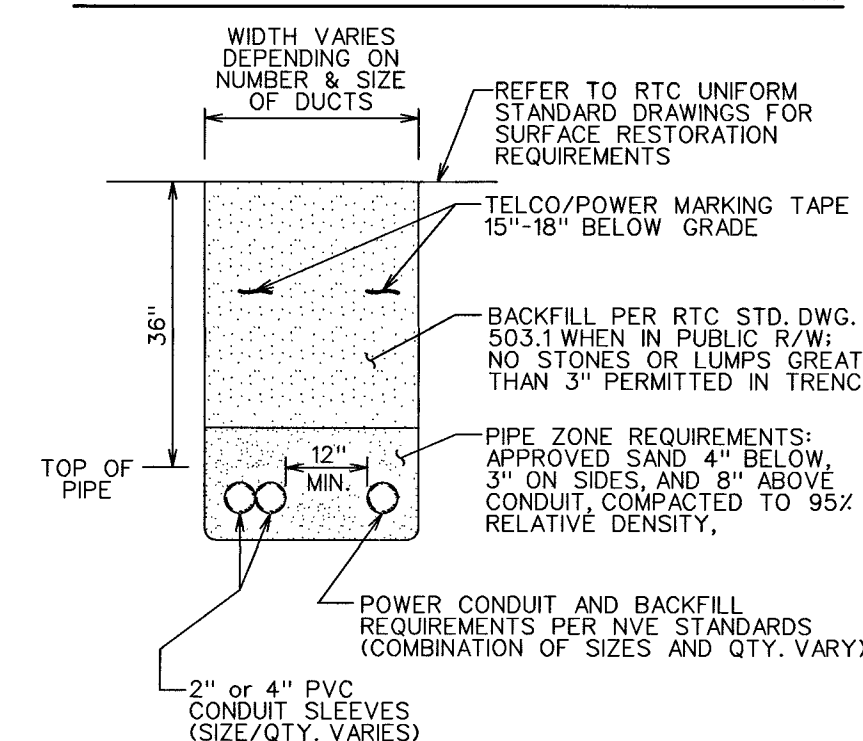
CITY OF LAS VEGAS PERMIT REQUIRED *
DEVELOPER/CONTRACTOR SHALL OBTAIN A CITY PERMIT BEFORE ANY EXCAVATION WORK WITHIN CITY OF LAS VEGAS RIGHT-OF-WAY
*CENTURYLINK INSPECTOR WILL VERIFY CITY PERMIT FOR WORK DONE WITHIN CITY OF LAS VEGAS RIGHT-OF-WAY
INSPECTOR: DATE:

AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
CALL 811
OR 1-800-227-2600

Project Description: RESIDENTIAL FIBER TO THE PREMISE (FTTP) T&S - HEXATRONIC		Engineering Contact	Name: Lori Johnson
Project # N.503475		Contract Engineer	Phone Number: 702-244-7899
Community Name: BLM 33 SUBDIVISION		Construction Coordinator	Name: Kyle Cummings
Exchange Key: WEST WEST		Revision 1:	Name: Stacie Booth
		Revision 2:	Phone Number: 702-244-7830
Remote Switch Exchange Key: N/A		CONFIDENTIAL-Disclose and Distribute Solely to CTL Employees Having a Need to Know. 35	



TYPICAL SLEEVE TRENCH DETAIL (TELEPHONE CONDUIT IN JOINT TRENCH W/ PWR)



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

DEVELOPER/CONTRACTOR NOTE:
CALL CENTURYLINK'S CONTROL CENTER AT 702-244-7811 TO
SCHEDULE INSPECTIONS OF STREET CROSSINGS AS REQUIRED.

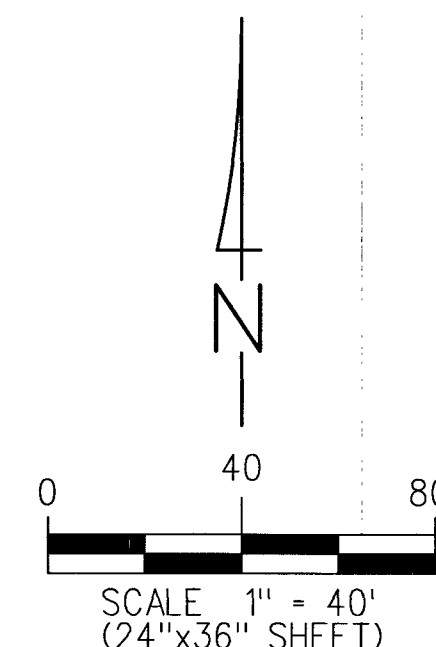
ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE
"UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION
OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE; THE
"UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK
COUNTY AREA NEVADA", LATEST ISSUE; AND OTHER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

- RTC SOUTHERN NEVADA NOTES:
- FOR ASPHALT CUT AND RESTORATION REQUIREMENTS, SEE RTC UNIFORM STANDARD DRAWING SERIES 500.1, 500.2, 500.3, 500.4 AND 500.5
 - FOR SIDEWALK REMOVAL AND REPLACEMENT REQUIREMENTS SEE RTC UNIFORM STANDARD DRAWING 234
 - FOR TYPICAL U.G. UTILITY LOCATIONS UNDER STREETS AND SIDEWALKS, SEE RTC UNIFORM STANDARD DRAWINGS 501 AND 501.1
 - FOR BACKFILL REQUIREMENTS SEE RTC UNIFORM STANDARD DRAWING 503.1
 - SEE COMPLETE RTC UNIFORM STANDARD DRAWINGS FOR FURTHER AGENCY REQUIREMENTS

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

Luis 7/25/19
APPROVAL DATE

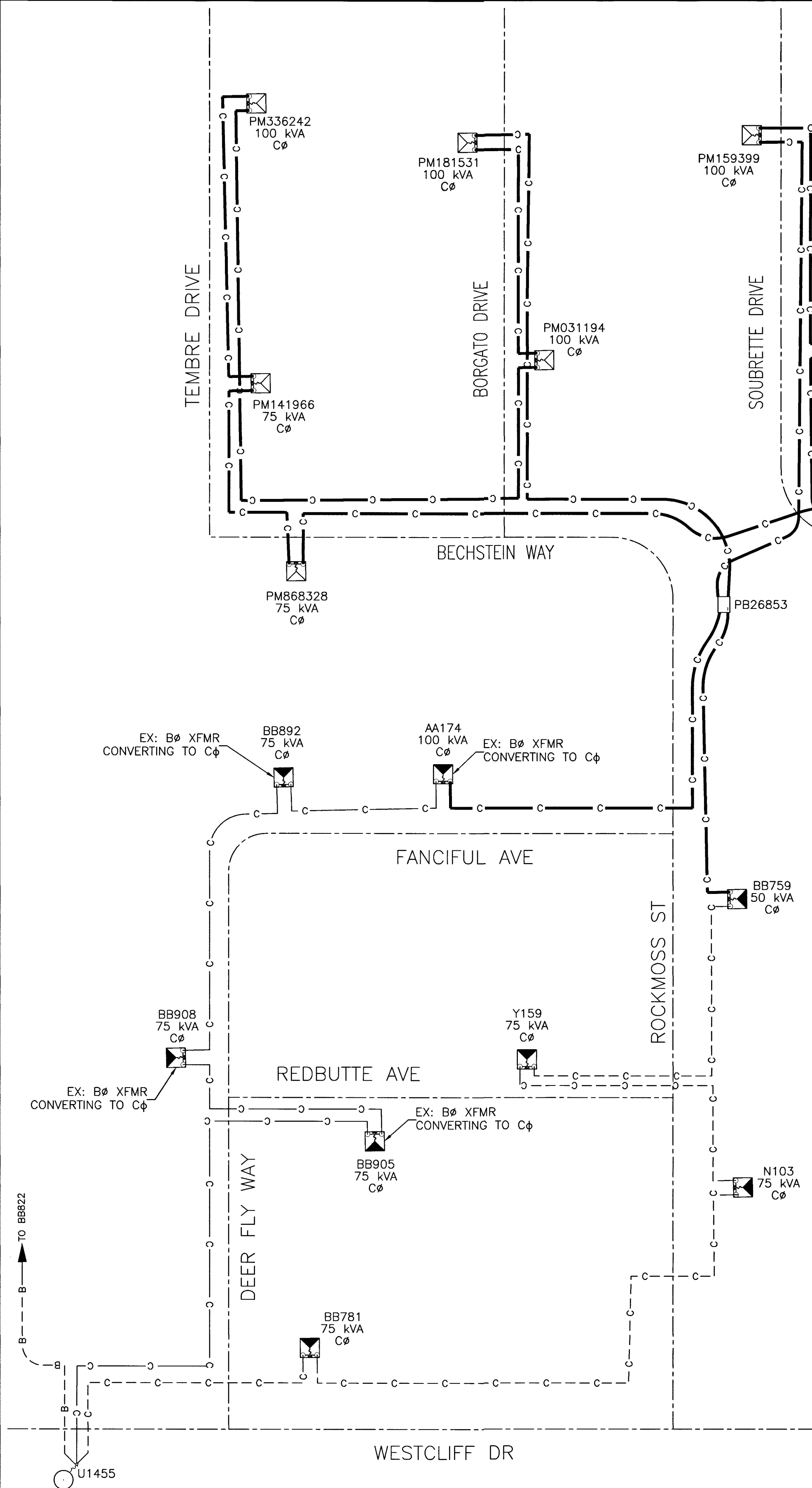
THIS PROJECT HAS BEEN DESIGNED
AS JOINT TRENCH WITH NV ENERGY
PER THE LATEST NV ENERGY PLAN.
NOTIFY THE CENTURYLINK ENGINEER
IMMEDIATELY IF REVISIONS OCCUR.



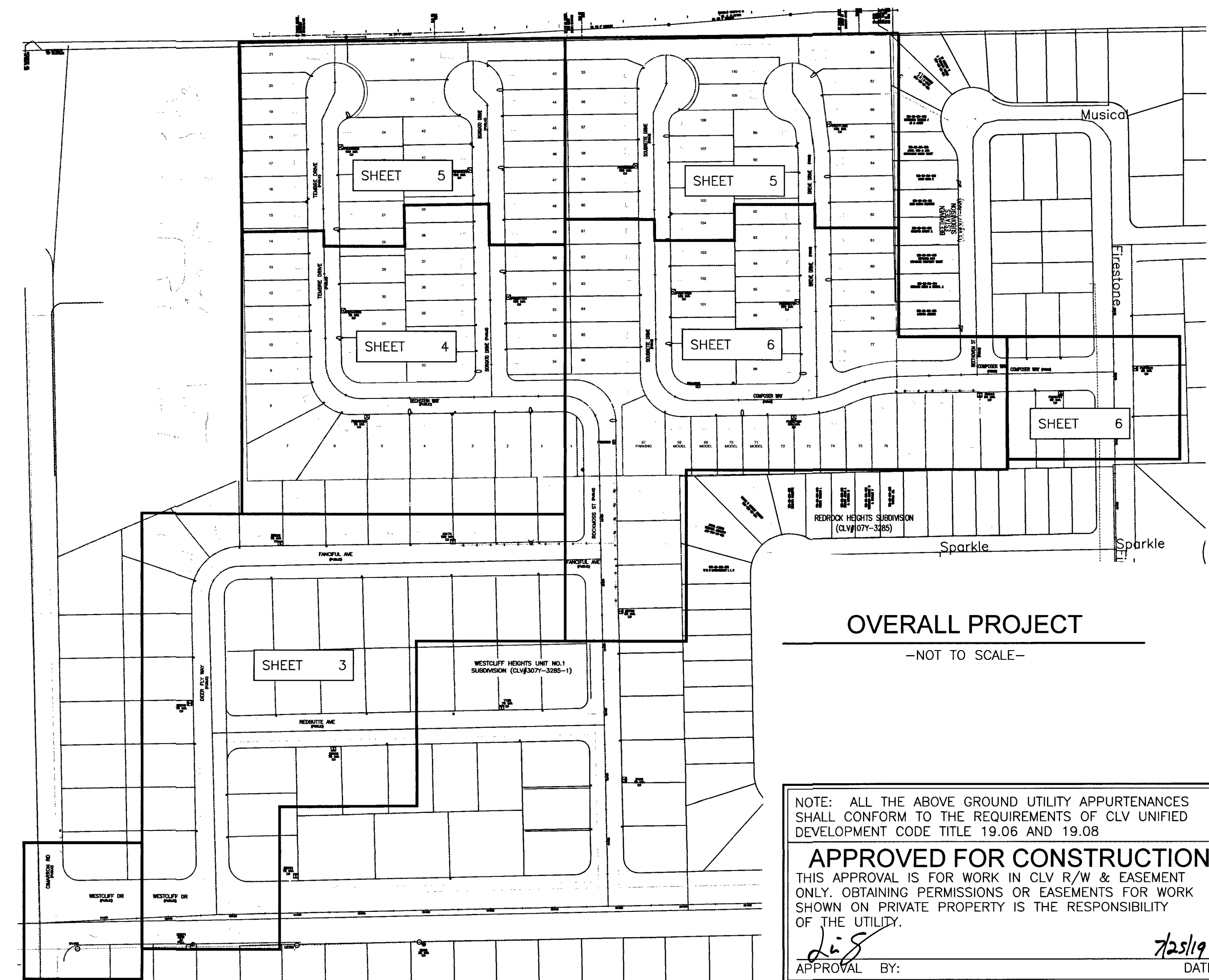
CITY OF LAS VEGAS PERMIT REQUIRED *		AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY. CALL 811 OR 1-800-227-2600
DEVELOPER/CONTRACTOR SHALL OBTAIN A CITY PERMIT BEFORE ANY EXCAVATION WORK WITHIN CITY OF LAS VEGAS RIGHT-OF-WAY	INSPECTOR:	
*CENTURYLINK INSPECTOR WILL VERIFY CITY PERMIT FOR WORK DONE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

STREET CROSSINGS - SLEEVES
and GATE SERVICE CABINETS

Project Description: RESIDENTIAL FIBER TO THE PREMISE (FTTP) T&S - HEXATRONIC		Engineering Contact	Name: Lori Johnson
Project # N.503475		Contract Engineer	Phone Number: 702-244-7899
Community Name: BLM 33 SUBDIVISION		Construction Coordinator	Name: Kyle Cummings
Exchange Key: WEST WEST		Revision 1:	Name: Stacie Booth
Remote Switch Exchange Key: N/A		Revision 2:	Phone Number: 702-244-7830
		CenturyLink™	
		CONFIDENTIAL-Disclose and Distribute Solely to CTL Employees Having a Need to Know. 36	
		107Y5019 L18-02380	Sheet: 2A Issue Date: 3/4/19



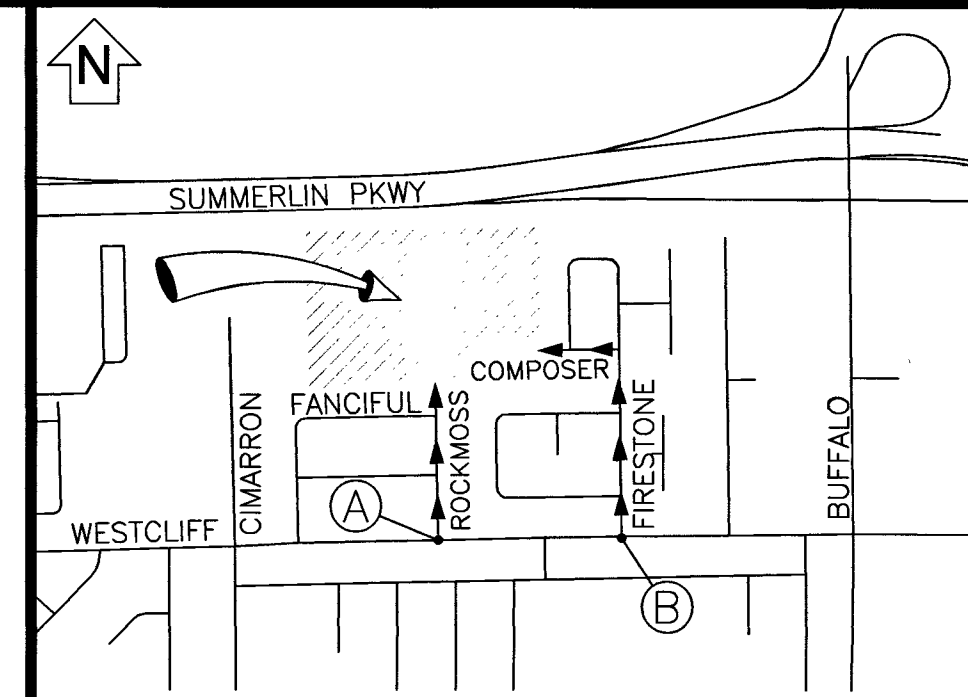
SINGLE LINE DIAGRAM
-NVE USE ONLY-



OVERALL PROJECT
-NOT TO SCALE-

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	U579Q1
	B	325	-325	0		
VGS1212	C	225	825	1050	VGS1212	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	U580Q1
	B	0	0	0		
VGS1212	C	650	450	1100	VGS1212	VGS1212

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



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

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
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 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

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

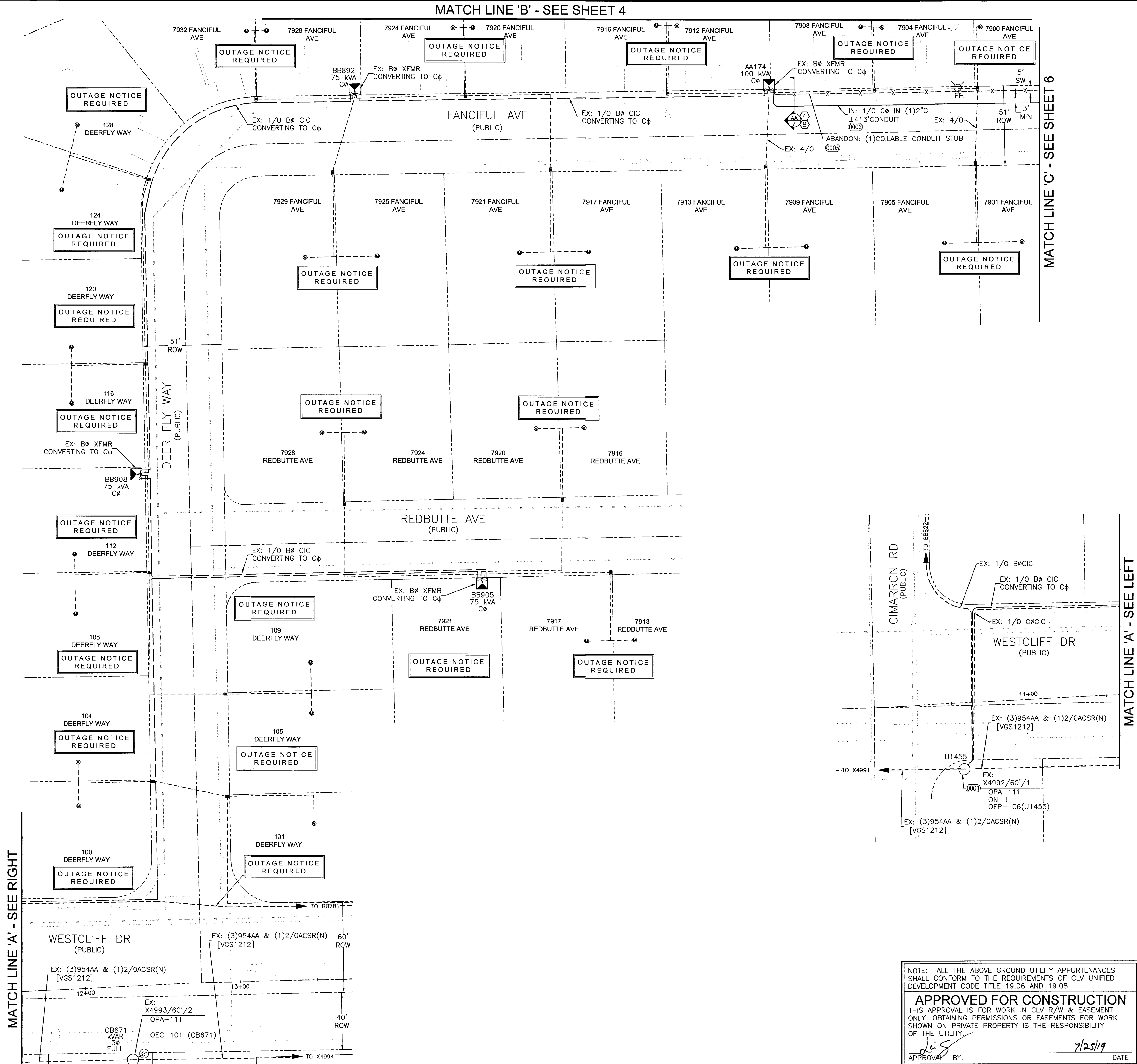
CITY OF LAS VEGAS
PERMIT REQUIRED*

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

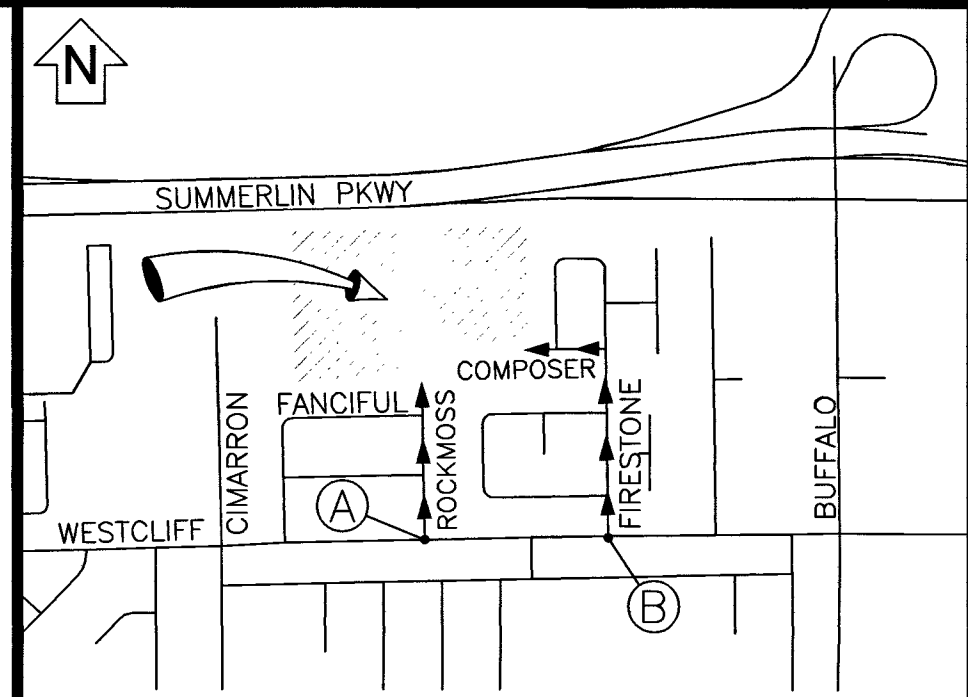
10745099
HANSEN 418-02380

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
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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

APPROVED FOR CONSTRUCTION

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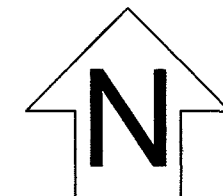
CITY OF LAS VEGAS
PERMIT REQUIRED*

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

HANSEN 107V5099
418-02380

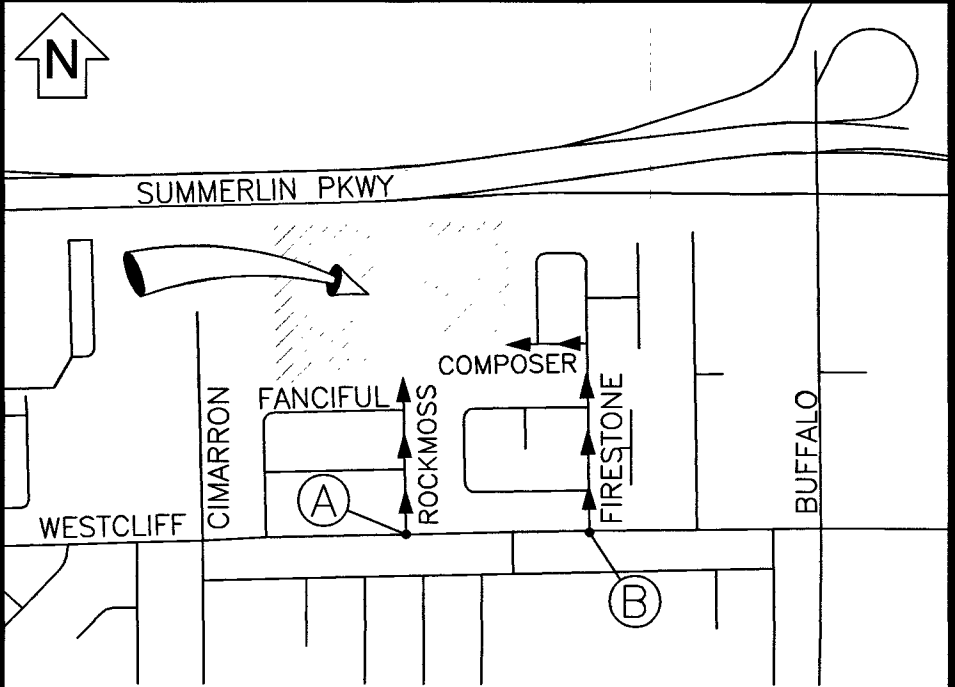
DATE 7/25/19

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



T,R,S: 20-60-28

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



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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
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SUBDIVISION

EXHIBIT 'A'

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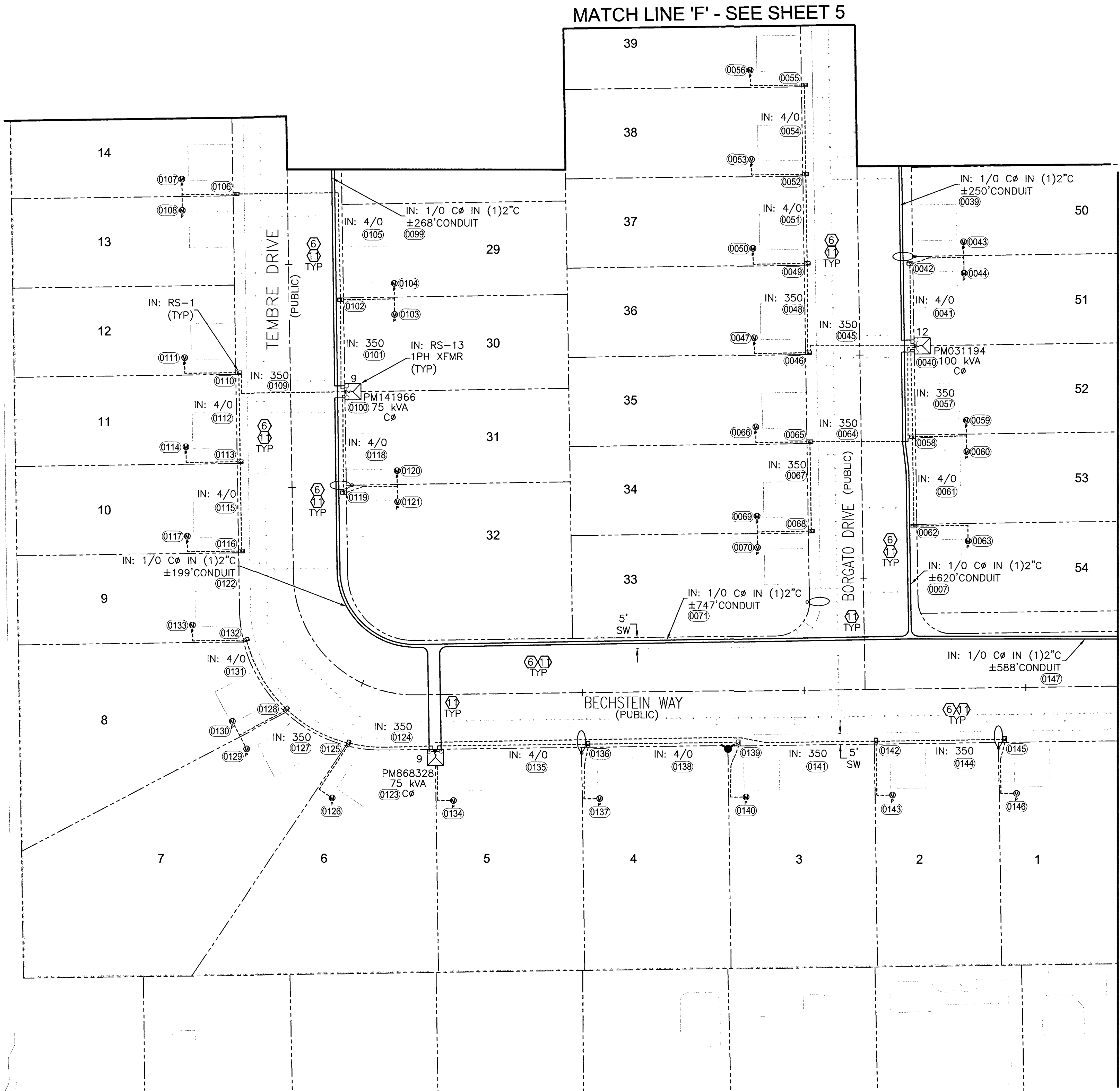
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BLM 33 - SUBDIVISION

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

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

CITY OF LAS VEGAS
PERMIT REQUIRED*

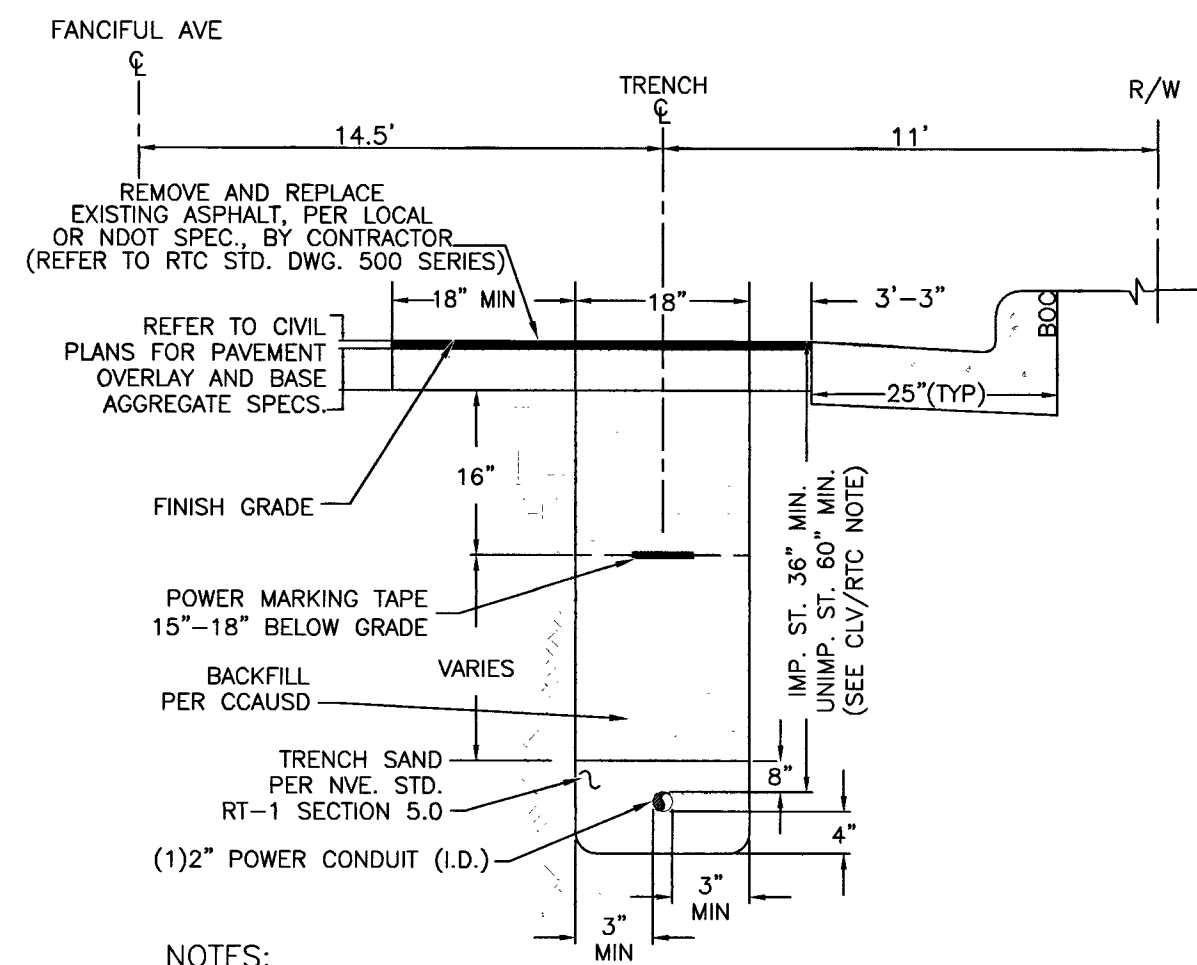
CONTACT CLV LAND DEVELOPMENT (229-6371)
CLV CONSTRUCTION SERVICES MUST BE NOTIFIED 24 HOURS PRIOR TO COMMENCING CONSTRUCTION (229-6337)

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.

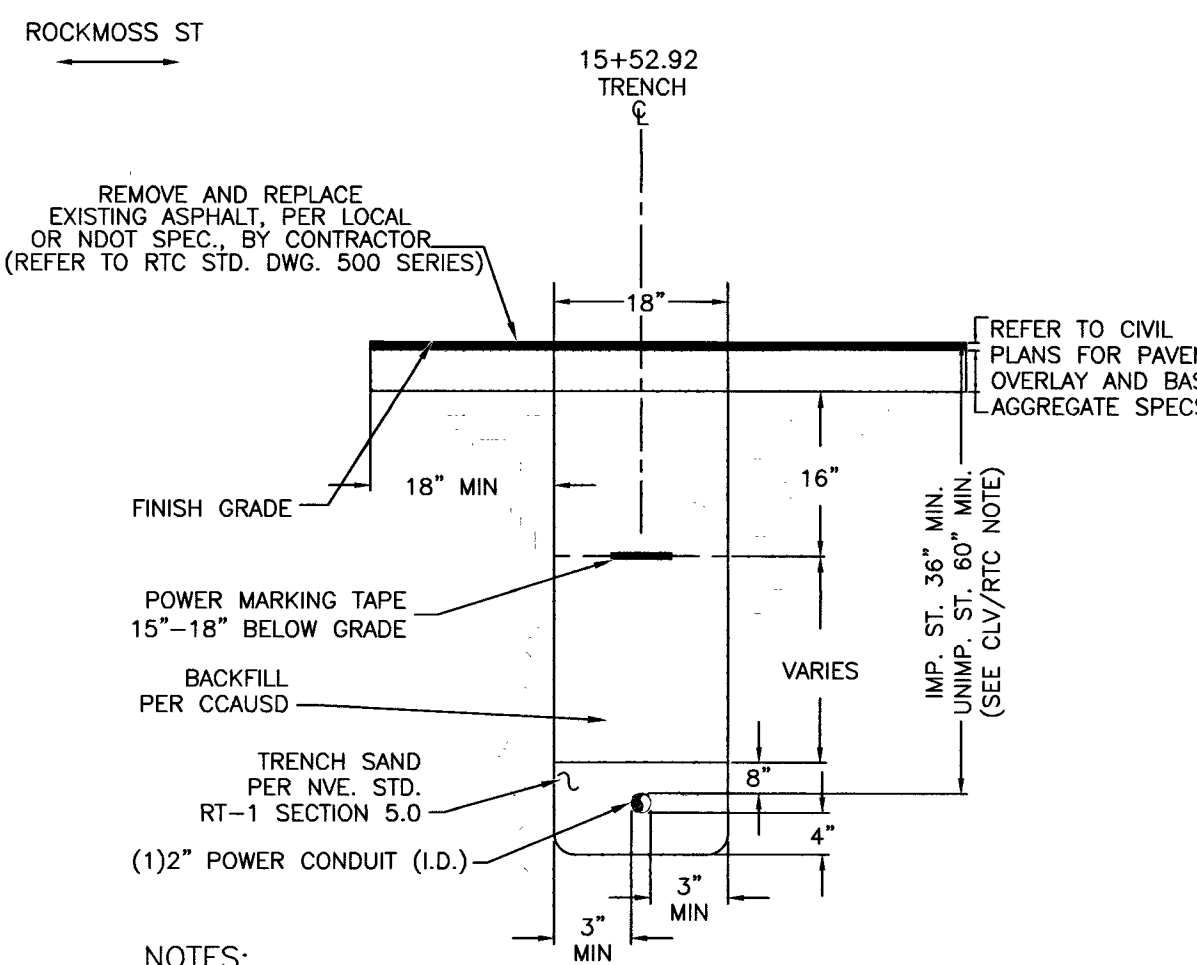
FAX PERMIT TO:
LAS VEGAS NORTH (RYAN CENTER): 402-4354
LAS VEGAS SOUTH (BELTWAY CENTER): 402-6864



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.

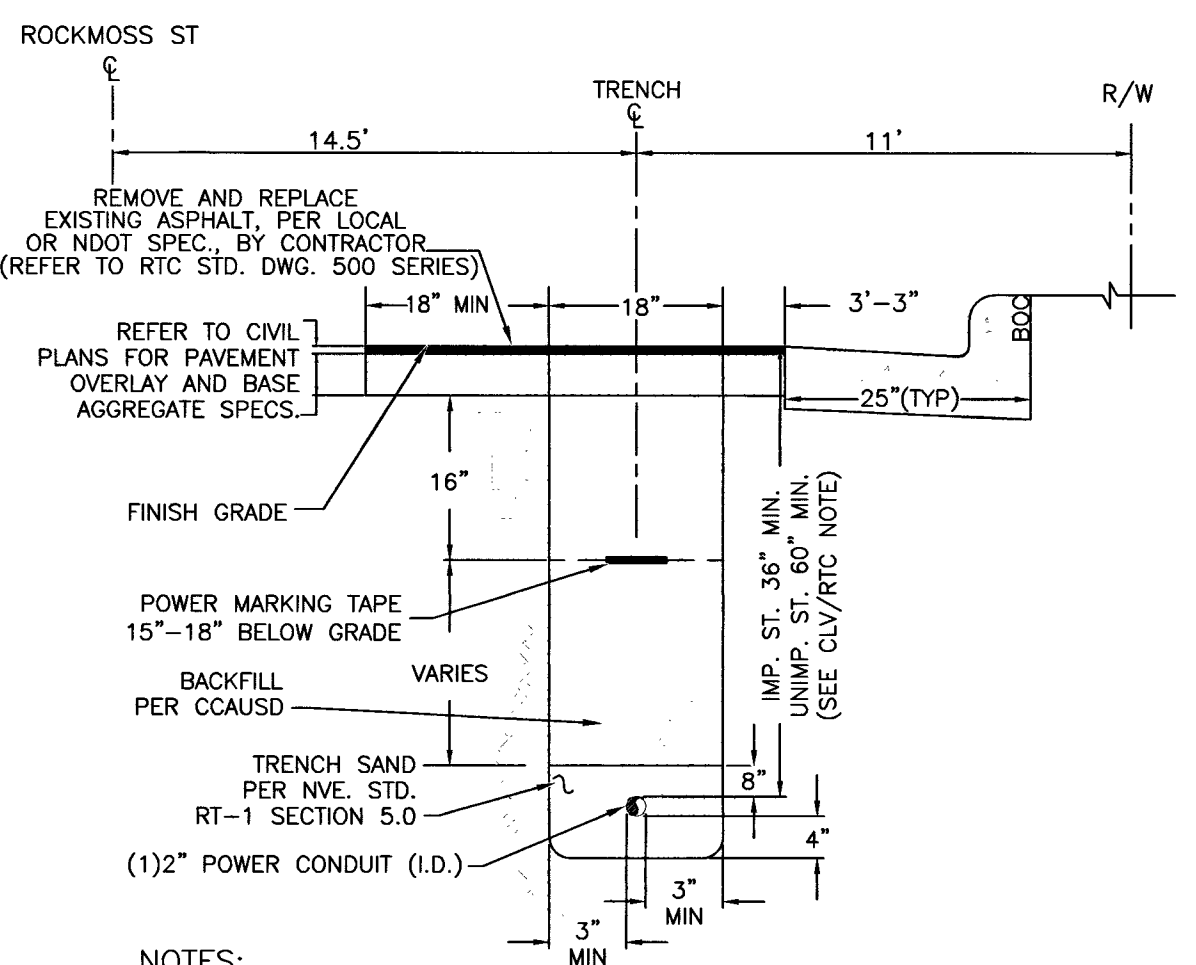
TRENCH DETAIL SECTION "AA"



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:
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BACKFILL REQUIREMENTS NVE. STD. RT-1.
TRENCH DEPTH REQUIREMENTS NVE. STD. RT-5.

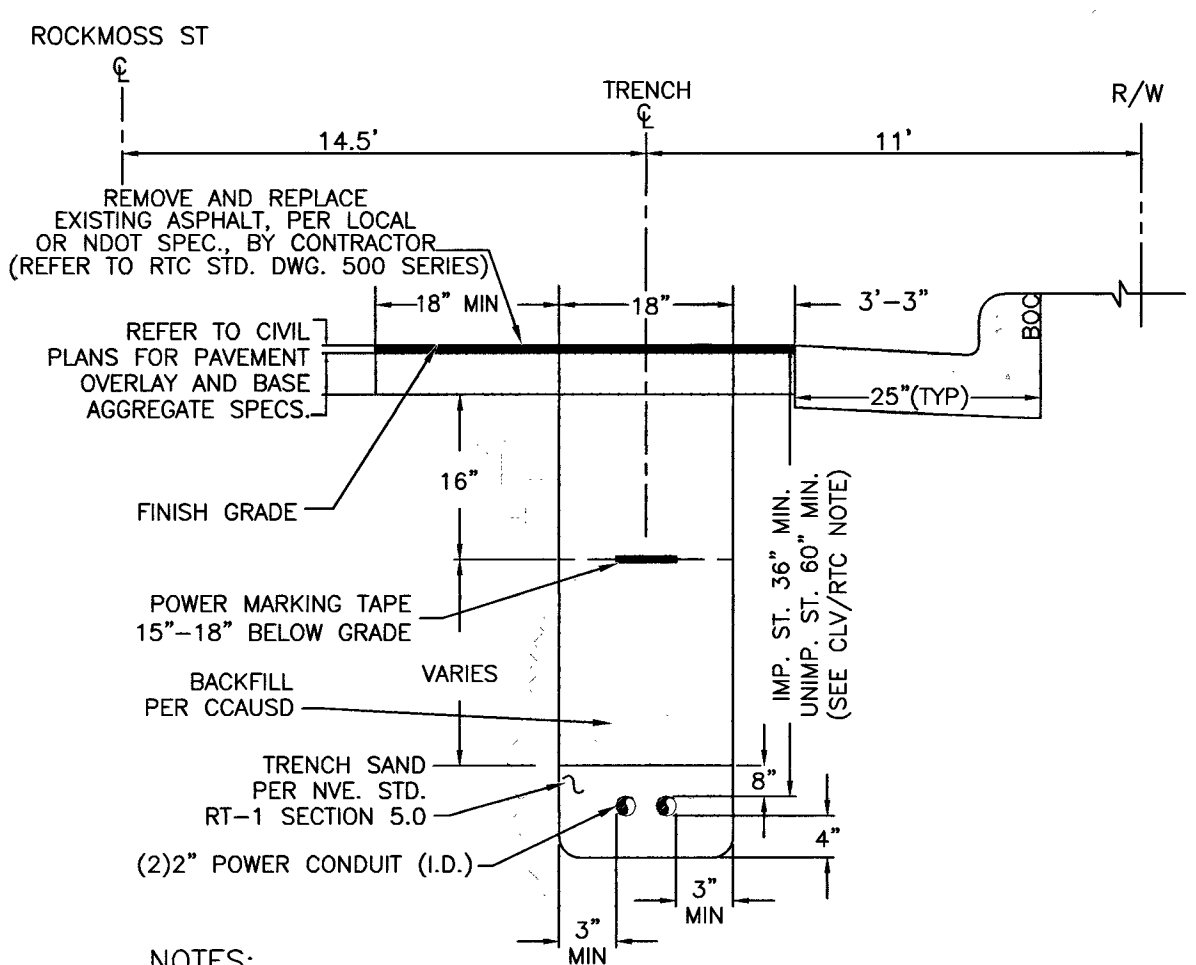
TRENCH DETAIL SECTION "BB"



NOTES:

CLV REQUIREMENTS (APPLICABLE WITHIN CITY OF LAS VEGAS LIMITS ONLY):
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- 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.
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NVE REQUIREMENTS:
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BACKFILL REQUIREMENTS NVE. STD. RT-1.
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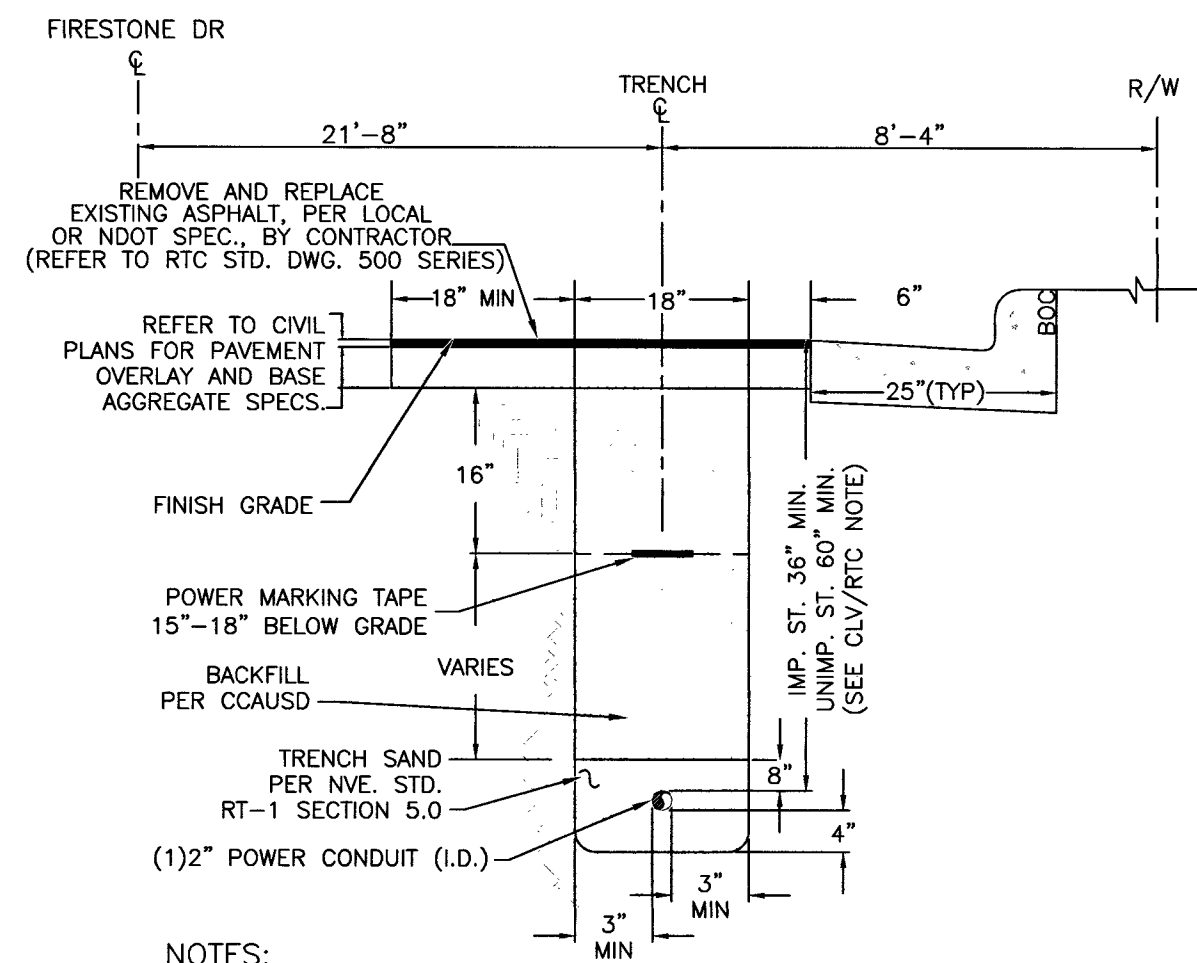
TRENCH DETAIL SECTION "CC"



NOTES:

CLV REQUIREMENTS (APPLICABLE WITHIN CITY OF LAS VEGAS LIMITS ONLY):
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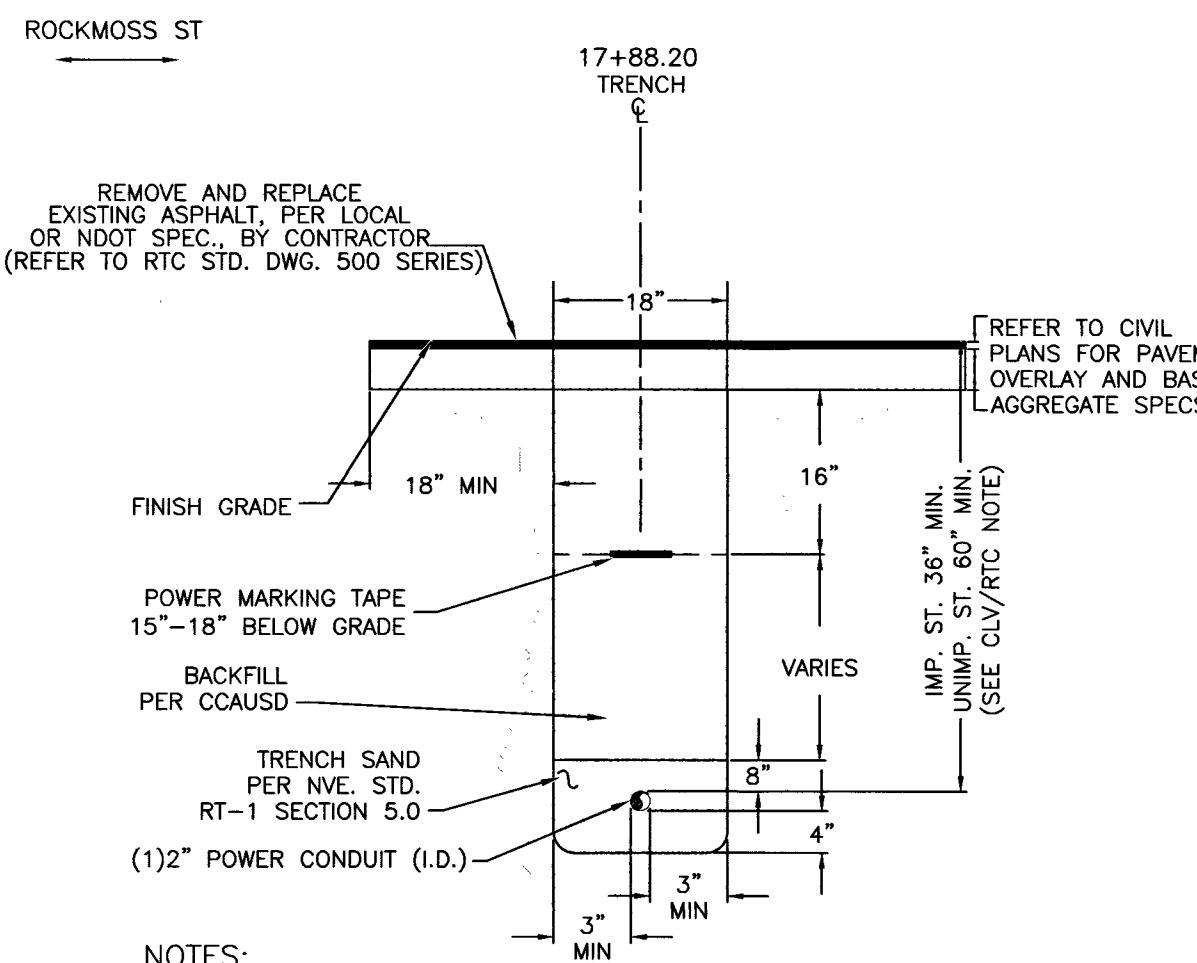
TRENCH DETAIL SECTION "DD"



NOTES:

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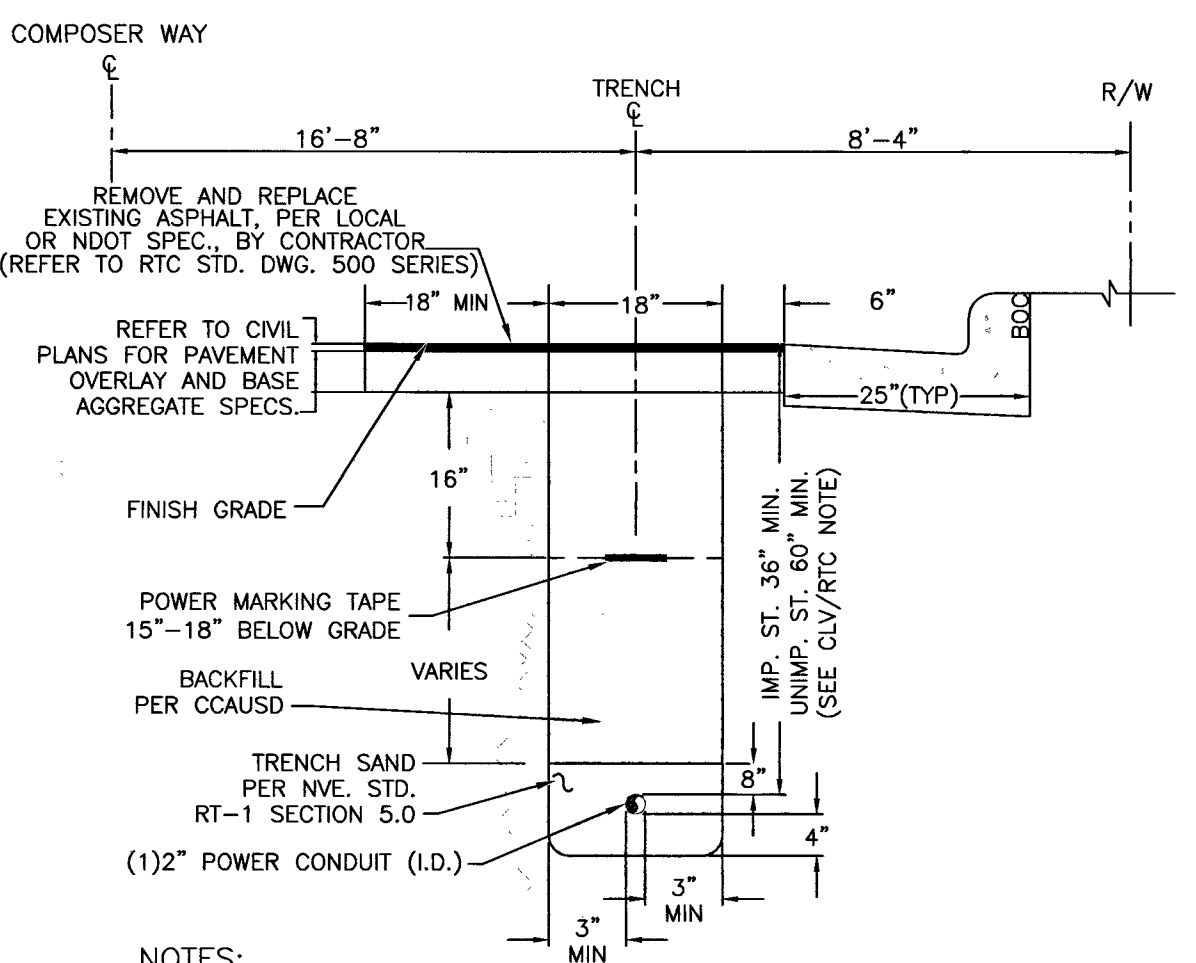
TRENCH DETAIL SECTION "EE"



NOTES:

REGIONAL TRANSPORTATION COMMISSION, CITY OF HENDERSON,
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REQUIREMENTS (SECTION 503.1 & 503.2):
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TRENCH DEPTH REQUIREMENTS NVE. STD. RT-5.

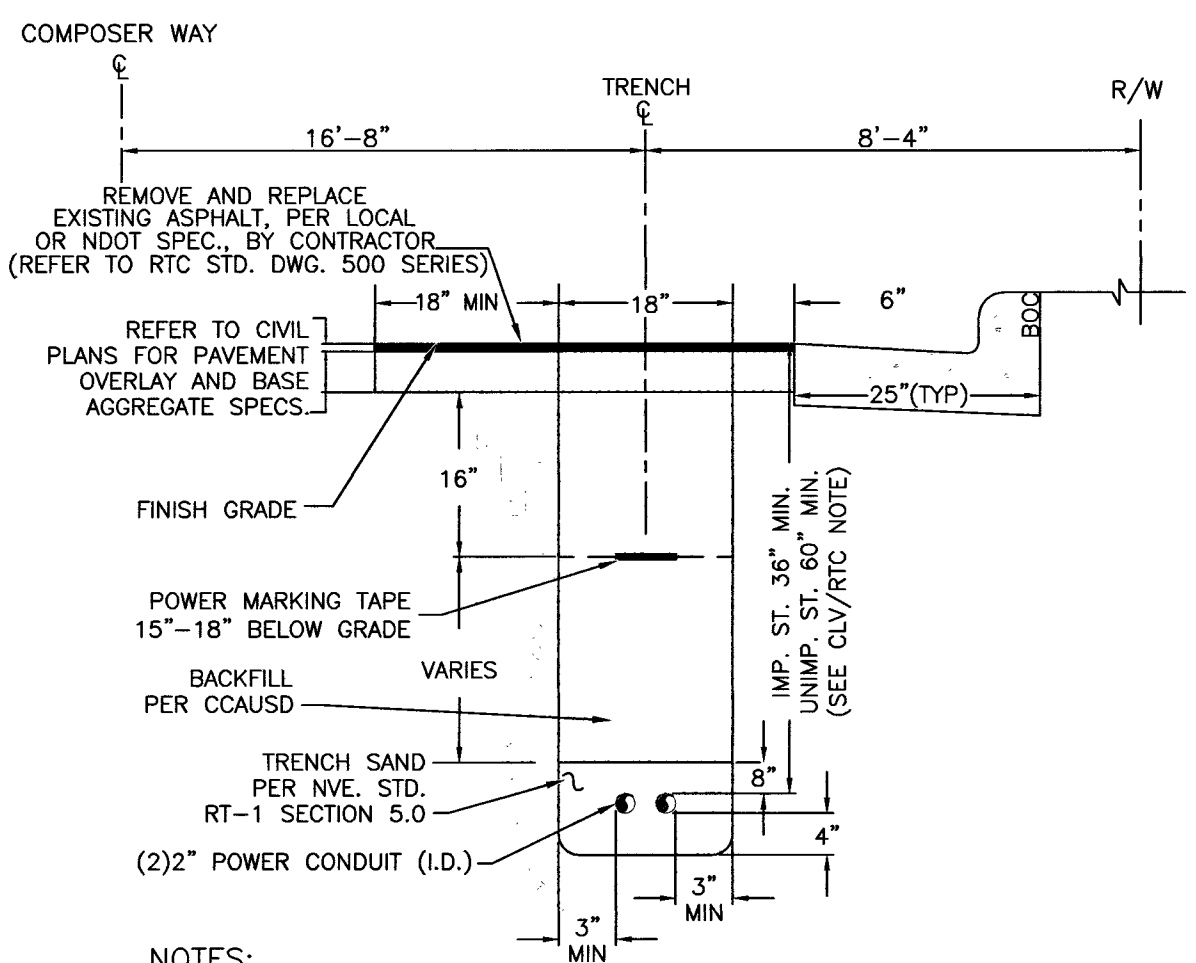
TRENCH DETAIL SECTION "FF"



NOTES:

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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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NVE REQUIREMENTS:
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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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- 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 "HH"

#	STREET INTERSECTION	STA.	HEADED
1	WESTCLIFF DR	19+83.26	EAST
2	ROCKMOOS ST	10+00	NORTH
3	WESTCLIFF DR	26+79.33	EAST
4	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

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: 7/25/19

CITY OF LAS VEGAS
PERMIT REQUIRED*

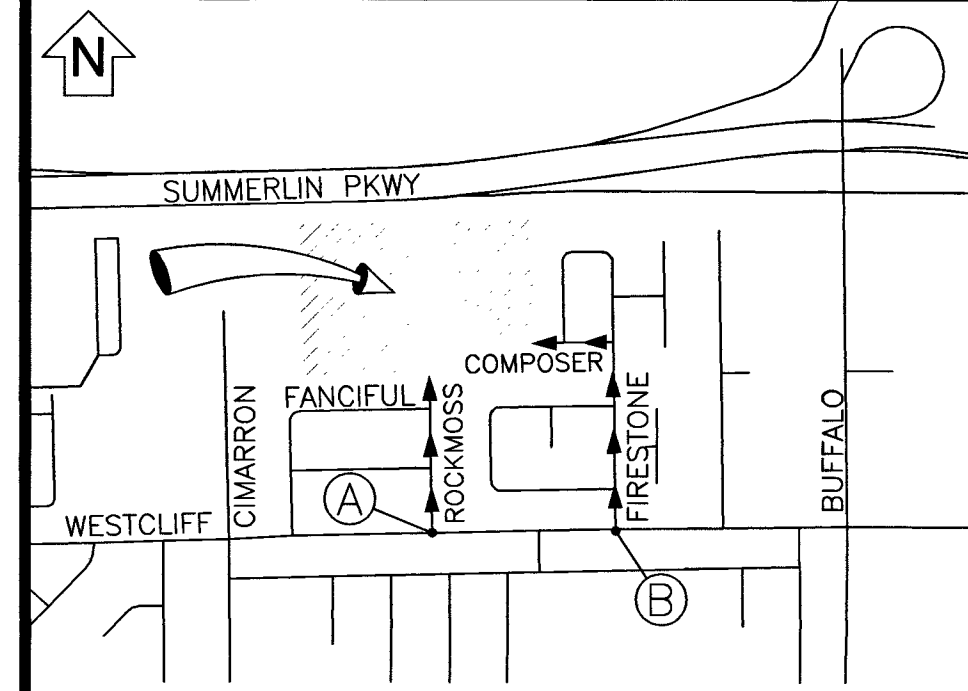
CONTACT CLV LAND DEVELOPMENT (229-6371)
CLV CONSTRUCTION SERVICES MUST BE NOTIFIED 24 HOURS PRIOR TO COMMENCING CONSTRUCTION (229-6371)

HANSEN 10745099
418-02380

DATE 7/25/19

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

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