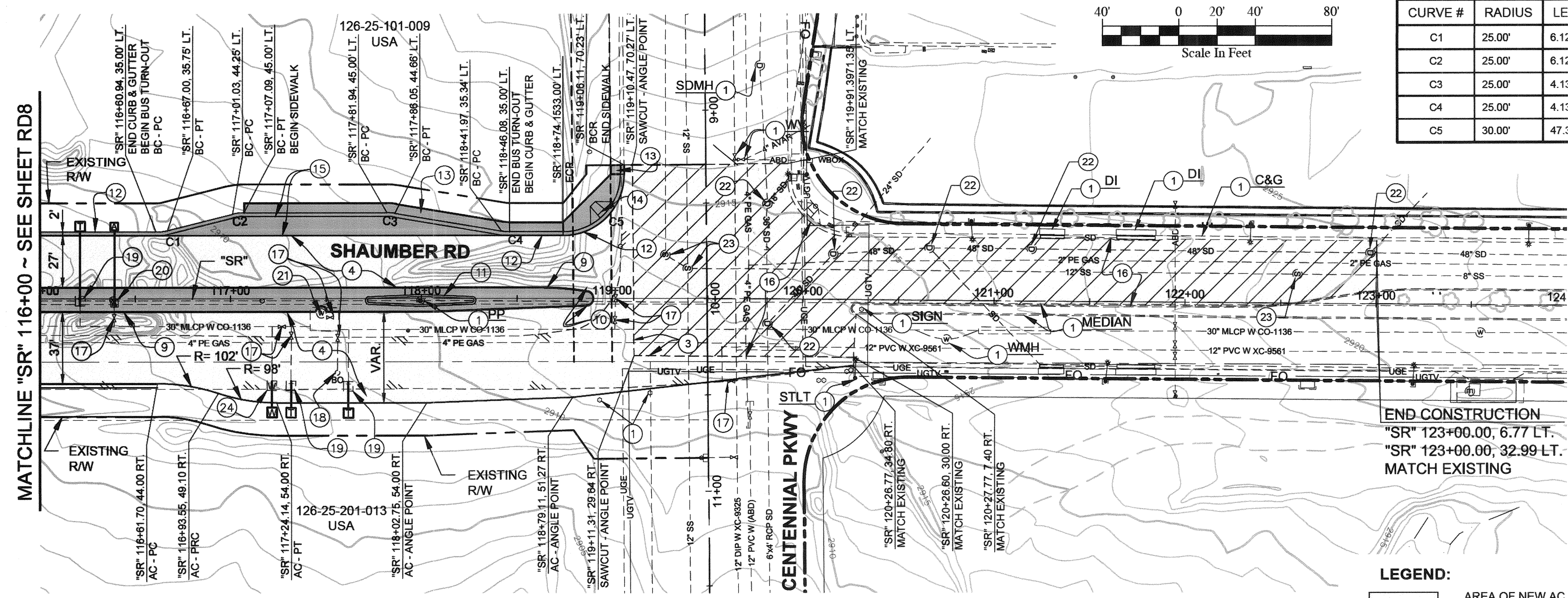
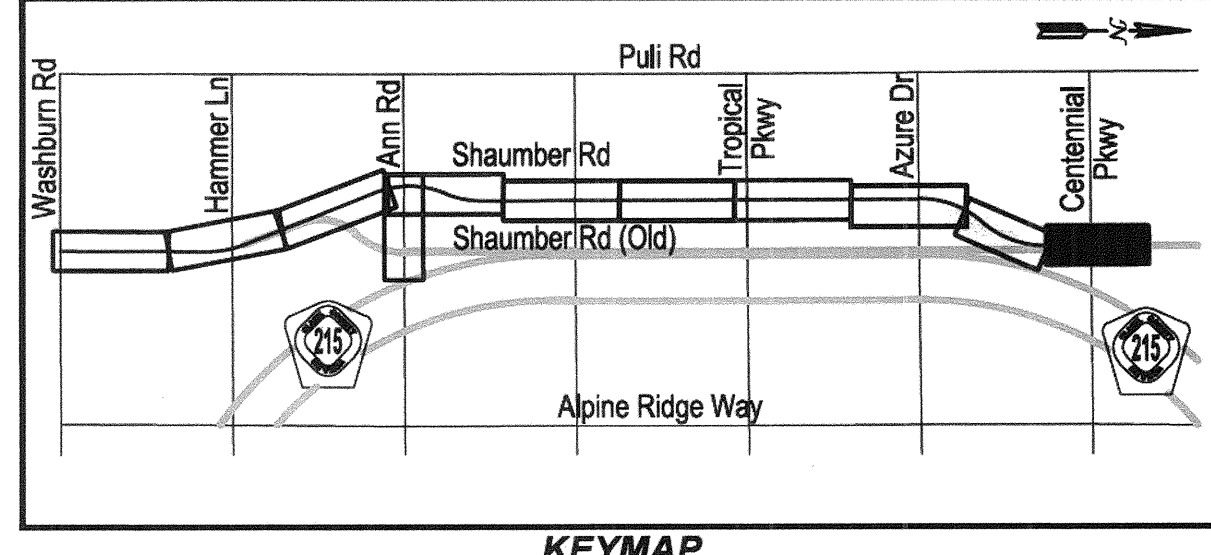




BACK OF CURB CURVE TABLE				
CURVE #	RADIUS	LENGTH	TANGENT	DELTA
C1	25.00'	6.12'	3.08'	14°02'10"
C2	25.00'	6.12'	3.08'	14°02'10"
C3	25.00'	4.13'	2.07'	9°27'44"
C4	25.00'	4.13'	2.07'	9°27'44"
C5	30.00'	47.38'	30.25'	90°28'56"

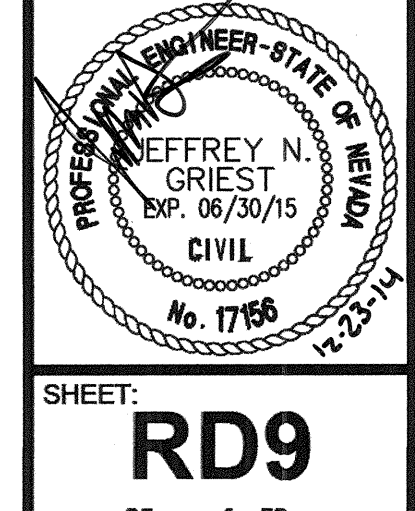
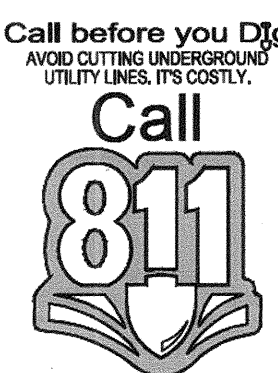
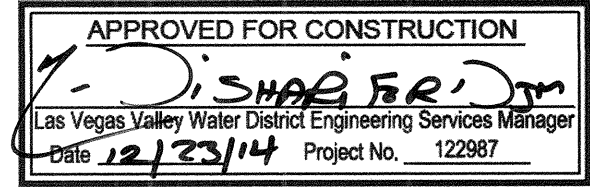


CONSTRUCTION NOTES

1. PROTECT IN PLACE
2. SAWCUT & MATCH EXISTING
3. CONSTRUCT PAVEMENT SECTION No. 1 (SEE SHEET TY5)
4. CONSTRUCT TYPE "A" MEDIAN ISLAND CURB PER USDCCA STD. DWG. No. 219
5. CONSTRUCT GRAVEL MEDIAN ISLAND TREATMENT (SEE SPECIFICATIONS)
6. CONSTRUCT TYPE "FB" CONCRETE BARRIER RAIL PER NDOT STD. DWG. No. 8.6.2 AND DETAILS ON SHEET DT2
7. CONSTRUCT TYPE "L" CURB & GUTTER PER USDCCA STD. DWG. No. 216
8. CONSTRUCT SIDEWALK PER USDCCA STD. DWG. No. 234
9. CONSTRUCT SIDEWALK RAMP (CASE II) PER USDCCA STD. DWG. No. 235 (A=8', B=8')
10. CONSTRUCT BUS TURN-OUT PER USDCCA STD. DWG. No. 234.1
11. ADJUST WATER VALVE TO FINISH GRADE PER UDACS STD. PLATE No. 39 (VALVE MUST BE ACCESSIBLE AT ALL TIMES)
12. ADJUST WATER BLOW-OFF TO FINISH GRADE PER UDACS STD. PLATE No. 37
13. RELOCATE WATER TEST STATION PER DETAILS ON SHEET DT6
14. RELOCATE AIR VALVE ASSEMBLY PER UDACS STD. PLATE No. 38
15. ADJUST WATER MANHOLE TO FINISH GRADE PER DETAILS ON SHEET DT7
16. ADJUST STORM DRAIN MANHOLE TO FINISH GRADE PER USDCCA STD. DWG. No. 408.1
17. ADJUST SANITARY SEWER MANHOLE TO FINISH GRADE PER DCSWCS STD. DWG. 40 SD-5
18. RELOCATE WATER QUALITY TEST STATION PER DETAILS ON SHEET DT7

PROCEDURES TO RELOCATE A CORROSION TEST STATION:

1. EXPOSE THE TEST STATION(S) AND LABEL ALL LEADS ACCORDING TO THE TYPICAL TEST BOARD DETAIL.
2. THE LEADS THAT ARE CONNECTED TO THE PIPE REQUIRE #6 COPPER WIRE WITH A HMWPE JACKET SUCH AS RAYCHEM PERMARAD.
3. THE LEAD THAT IS CONNECTED TO THE REFERENCE CELL REQUIRES #14 COPPER WIRE WITH A HMWPE JACKET SUCH AS RAYCHEM PERMARAD.
4. CONNECT THE TWO WIRES TO BE SPLICED WITH A COPPER BUTT CONNECTION USING THE PROPER CRIMPING TOOL.
5. MAKE EACH SPLICE USING A SCOTCHCAST RESIN SPLICING KIT, DURO-CAST UNIVERSAL SPLICE KIT, OR A RAYCHEM ANODE SPLICE ENCAPSULATION KIT.
6. RECONNECT THE TEST BOARD TO PROPER LEADS, AND PLACE THE TEST BOX AT THE NEW SITE.
7. THE TEST BOX AT THE NEW SITE WILL BE INSTALLED ACCORDING TO THE TYPICAL TEST BOX DETAIL.
8. ALL TEST LEADS AND ANODE LEADS INSIDE THE TEST BOX SHALL BE BUNDLED TOGETHER AT 8 INCH INTERVALS WITH NYLON TIES AND SHALL BE PROVIDED WITH A MINIMUM OF 4 FEET OF SLACK.
9. ALL TEST LEADS AND ANODE LEADS SHALL BE COLOR CODED WITH COLORED TAPE AT EACH END AND AT 4 FEET INTERVALS.
10. RELOCATED TEST STATION TO BE TESTED BY CERTIFIED CATHODIC PROTECTION SPECIALIST, CORROSION SPECIALIST OR REGISTERED PROFESSIONAL CORROSION ENGINEER. RESULTS TO BE SUBMITTED IN WRITING TO LVVWD CONSTRUCTION DIVISION.



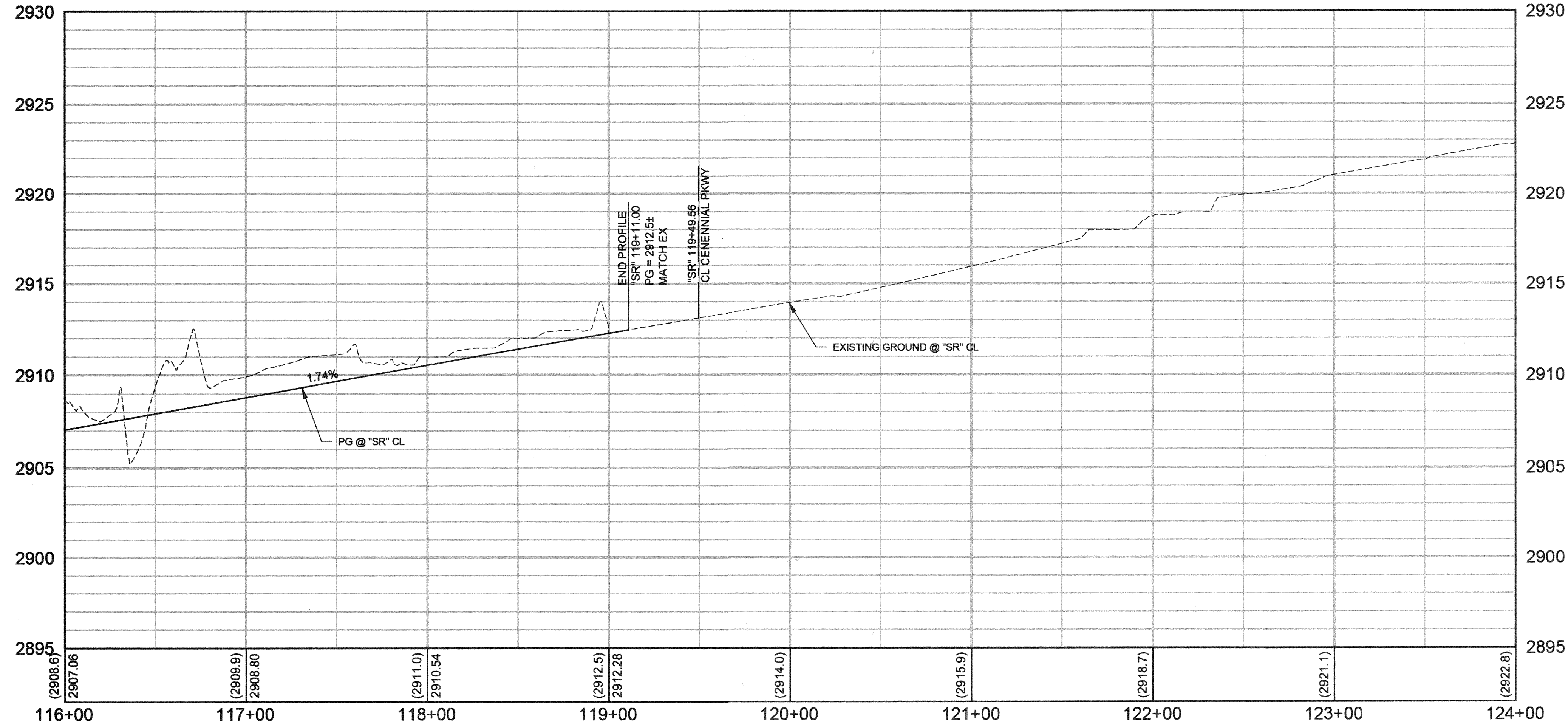
FOR GRADING & DRAINAGE
SEE SHEET SD5

FOR STRIPING & SIGNING
SEE SHEETS ST5 & ST6

FOR MEDIAN ISLAND GEOMETRICS
SEE SHEET DT1

FOR INTERSECTION GRADING DETAILS
SEE SHEET DT4

- LEGEND:**
- AREA OF NEW AC PAVEMENT (SEE ROADWAY TYPICAL SECTIONS)
 - AREA OF NEW CONCRETE MEDIAN ISLAND (SEE SHEET TY2)
 - 2" COLD MILL & AC OVERLAY



DEPARTMENT OF PUBLIC WORKS

CAPITAL PROJECT MANAGEMENT

ROADWAY PLAN & PROFILE

"SR" 116+00 TO "SR" 124+00

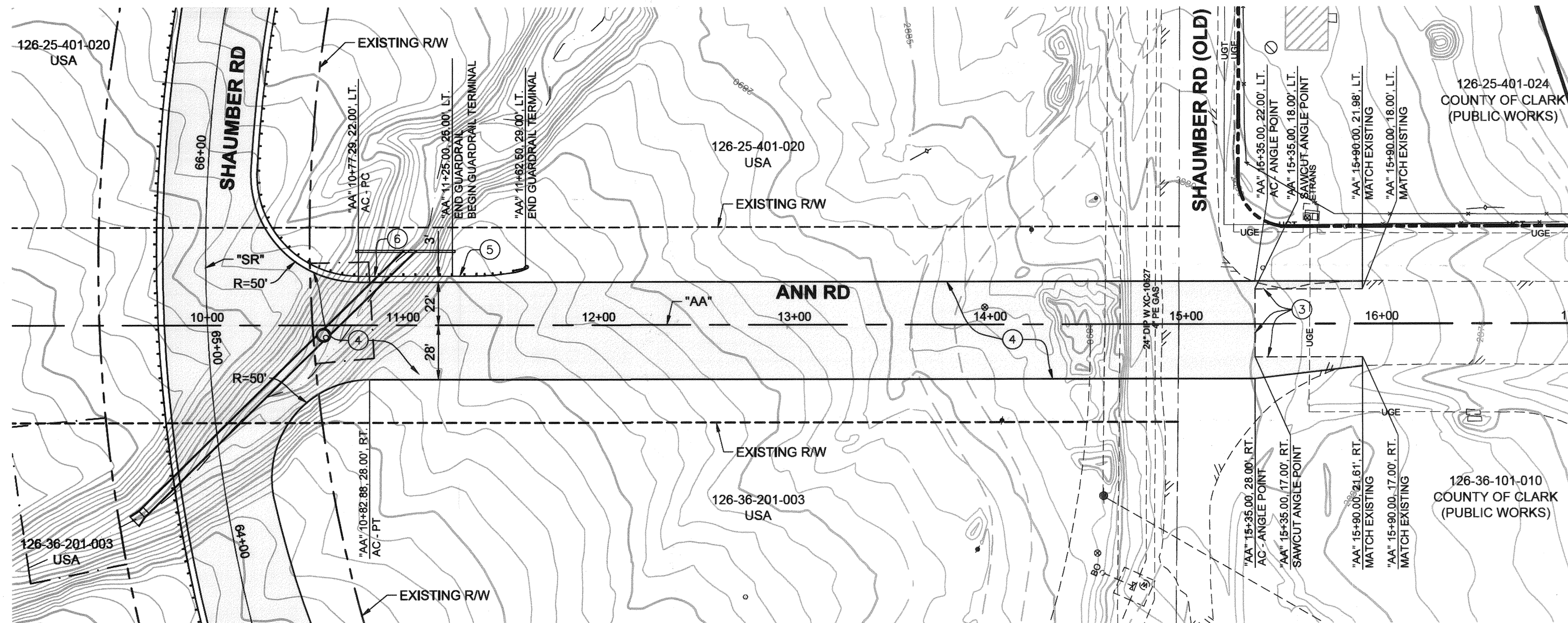
SHAUMBER ROAD REALIGNMENT

CENTENNIAL PKWY TO WASHBURN RD

RD9

DATE: December 17, 2014

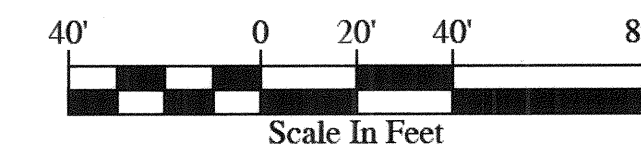
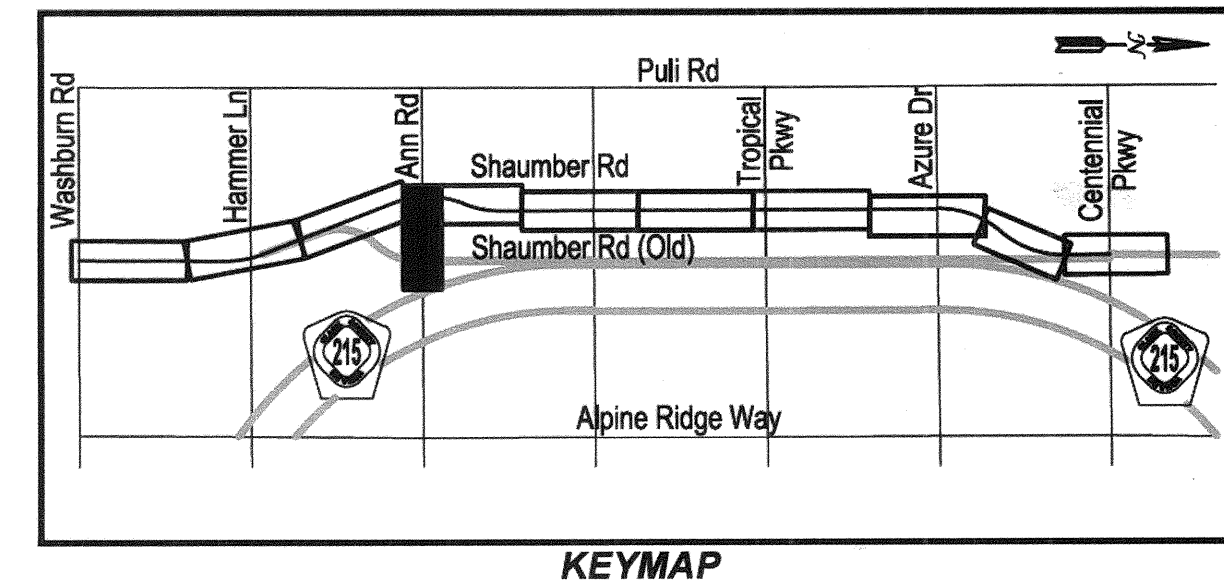
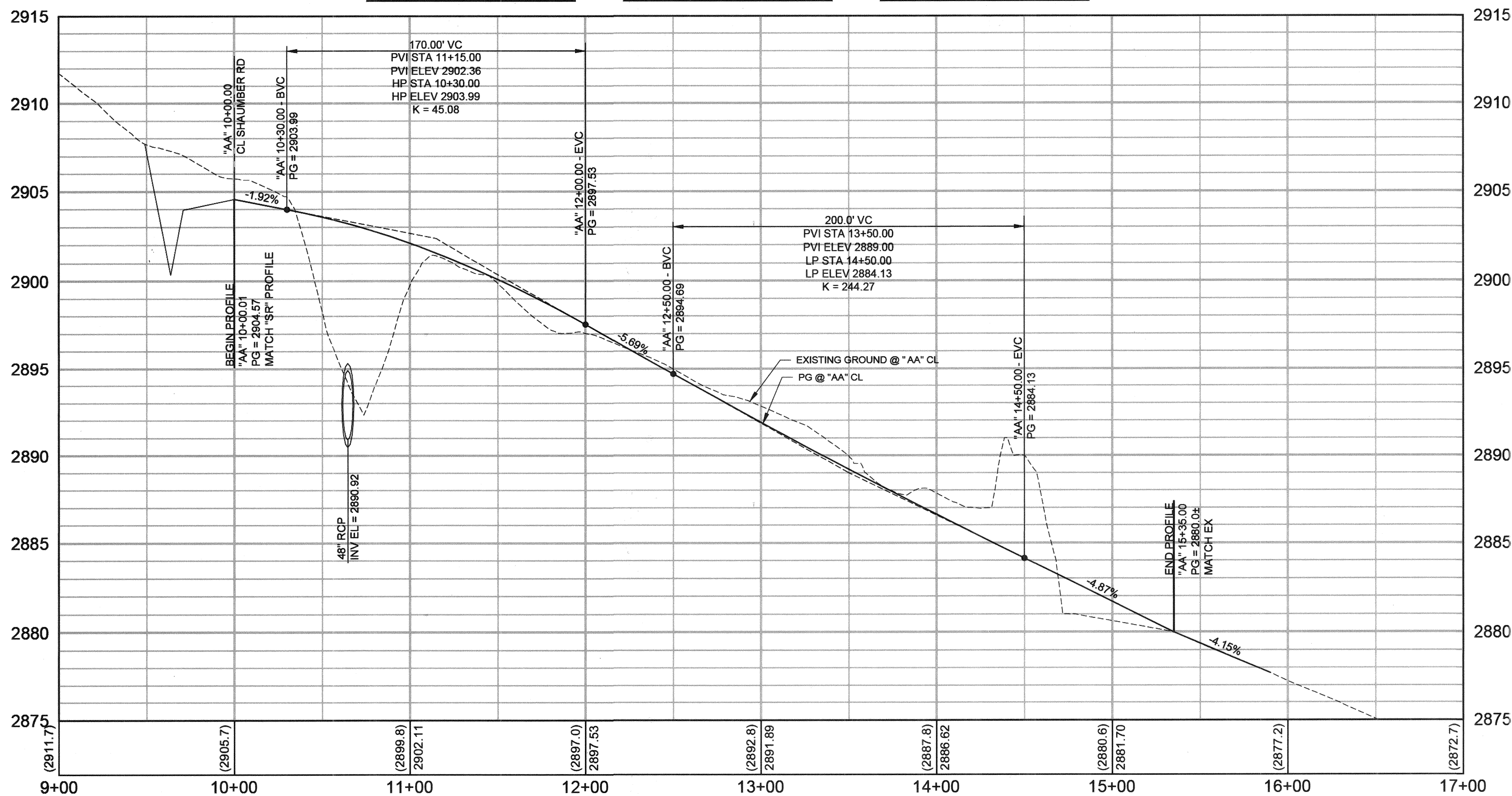
DRAWING NO. 107V6351



FOR SHAUMBER ROAD
PLAN & PROFILE
SEE SHEET RD3

FOR GRADING
& DRAINAGE
SEE SHEET SD6

FOR STRIPING
& SIGNING
SEE SHEET ST6

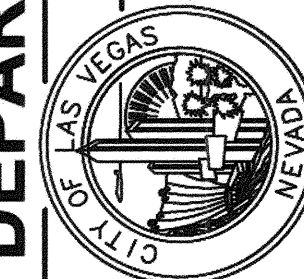


LEGEND:
AREA OF NEW AC PAVEMENT
(SEE ROADWAY TYPICAL SECTIONS)

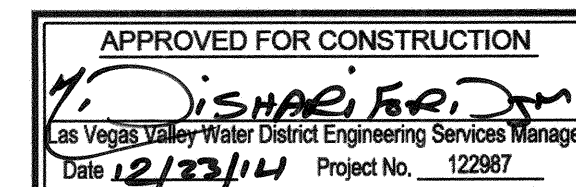
- CONSTRUCTION NOTES
1. PROTECT IN PLACE
 2. SAWCUT & MATCH EXISTING
 3. CONSTRUCT PAVEMENT SECTION No. 1 (SEE SHEET TY5)
 4. INSTALL FLARED GUARDRAIL TERMINAL (METHOD C) PER NDOT STD. DWG. No. R-8.2.1
 5. INSTALL GUARDRAIL PER NDOT STD. DWG. No. R-8.1.1

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DEPARTMENT OF PUBLIC WORKS
CAPITAL PROJECT MANAGEMENT
CITY ENGINEER: ALBERT PAVELKA, P.E.
DESIGNED BY: J. GRIEST
DRAWN BY: F. PAULLO
CHECKED BY: J. GRIEST
APPROVED BY: J. GRIEST



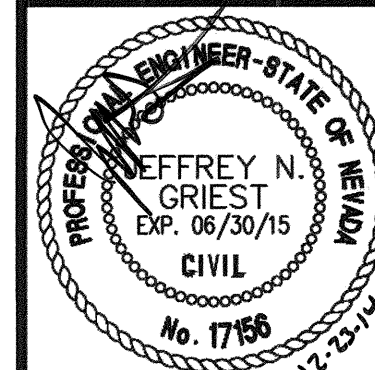
SHEET: ROADWAY PLAN & PROFILE
"AR" 10+00 TO "AR" 17+00
TITLE: SHAUMBER ROAD REALIGNMENT
CENTENNIAL PKWY TO WASHBURN RD



FAST
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1-702-432-5300

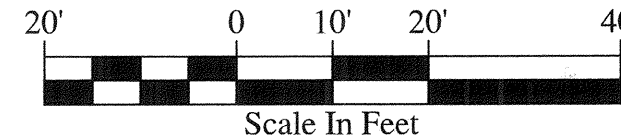
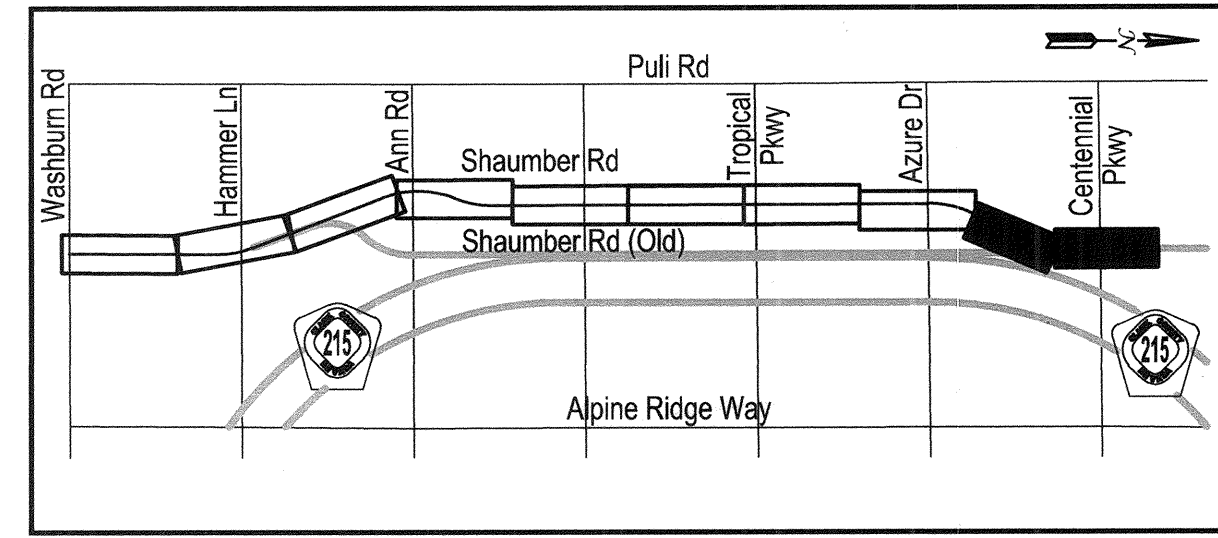
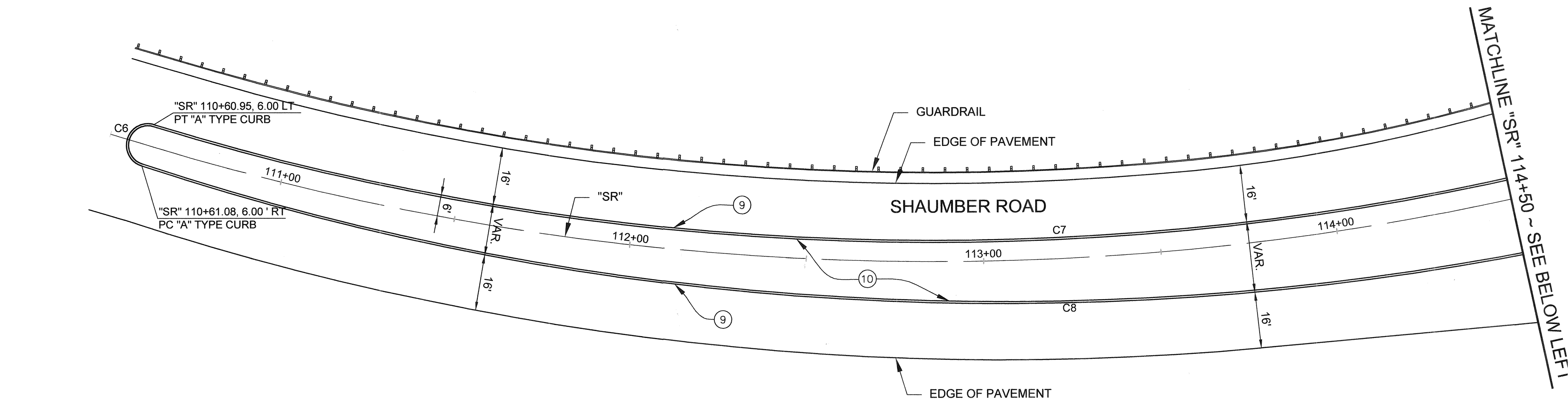
Call before you Overhead
1-702-227-2929
NV ENERGY ENVIRONMENT AND SAFETY SERVICES DEPARTMENT

Call before you 811
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.



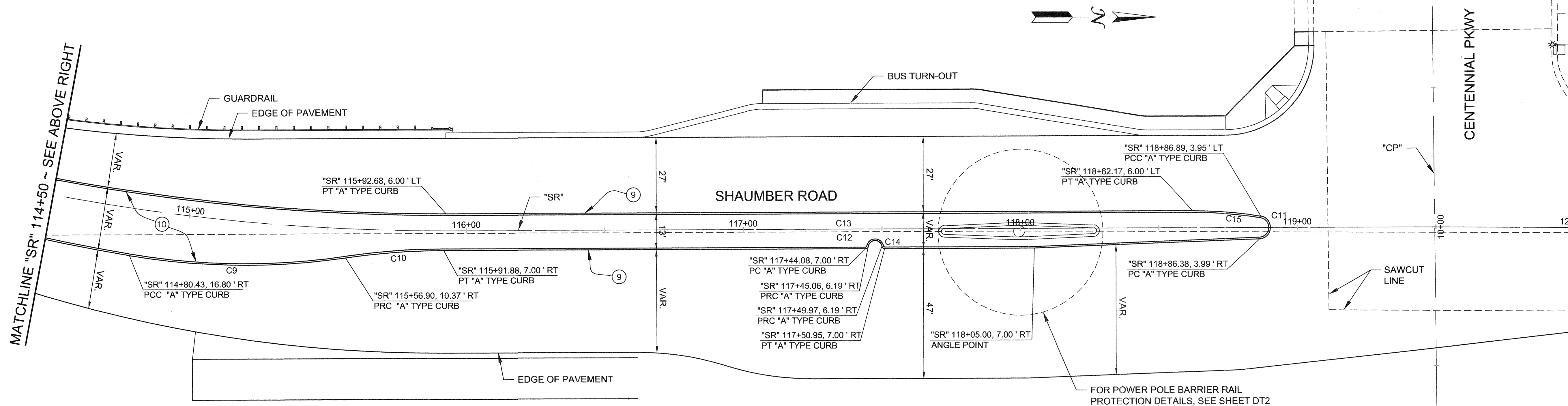
SHEET: RD10
26 of 52
DATE: December 17, 2014
DRAWING NO.: 107V6351

HANSEN NO. 45398



- CONSTRUCTION NOTES**
- 9 CONSTRUCT TYPE "A" MEDIAN ISLAND CURB PER USDCCA STD. DWG. No. 219
 - 10 CONSTRUCT GRAVEL MEDIAN ISLAND TREATMENT (SEE SPECIFICATIONS)

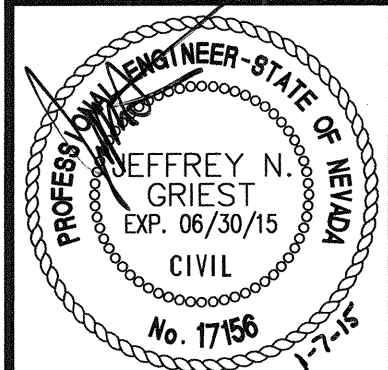
FACE OF MEDIAN ISLAND CURVE TABLE				
CURVE #	RADIUS	LENGTH	TANGENT	DELTA
C6	6.00'	18.86'	INFINITY'	180°00'00"
C7	759.00'	527.56'	274.94'	39°49'29"
C8	776.25'	425.73'	218.37'	31°25'24"
C9	250.00'	78.38'	39.52'	17°57'50"
C10	250.00'	35.56'	17.81'	8°08'58"
C11	4.00'	11.76'	39.37'	168°23'52"
C12	1.00'	1.38'	0.83'	79°12'18"
C13	2.50'	6.91'	13.11'	158°24'36"
C14	1.00'	1.38'	0.83'	79°12'18"
C15	150.00'	24.84'	12.45'	9°29'12"



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NV ENERGY ENVIRONMENT AND
SAFETY SERVICES DEPARTMENT

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UTILITY LINES. IT'S COSTLY.

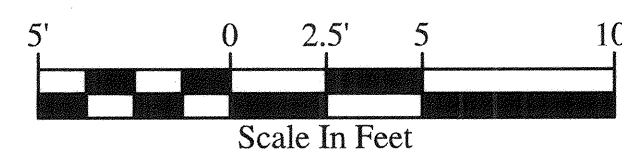
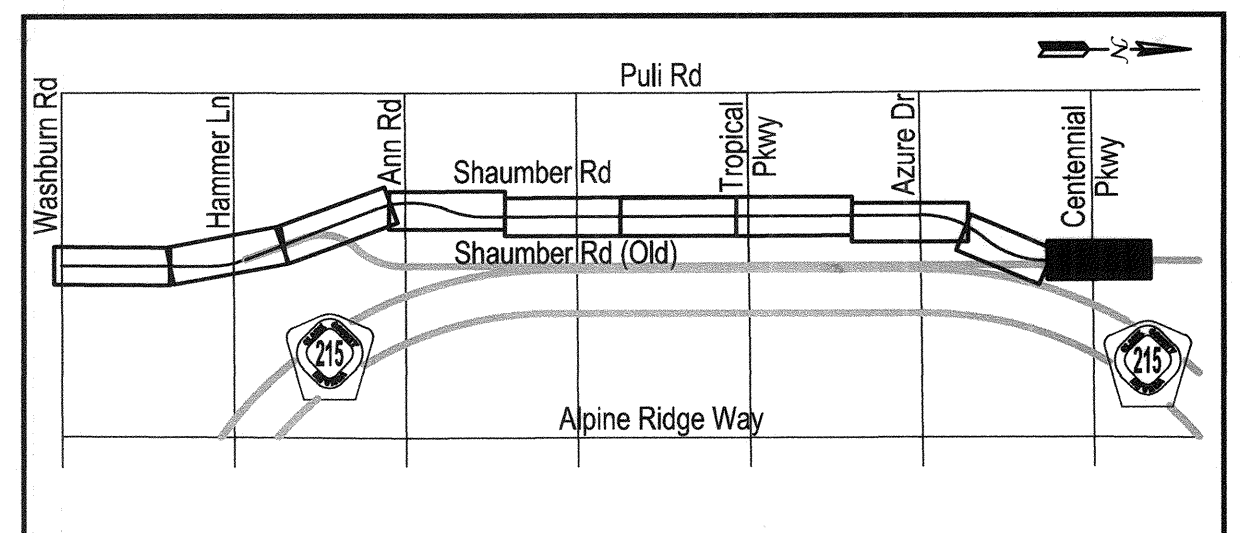
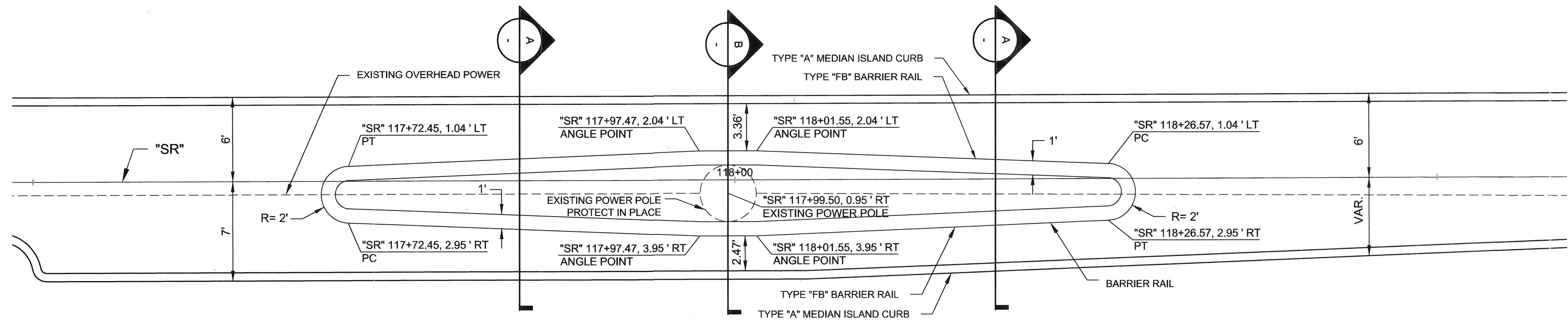


SHEET: **DT1**
27 of 52
DATE: January 7, 2015
DRAWING NO. 107V6351

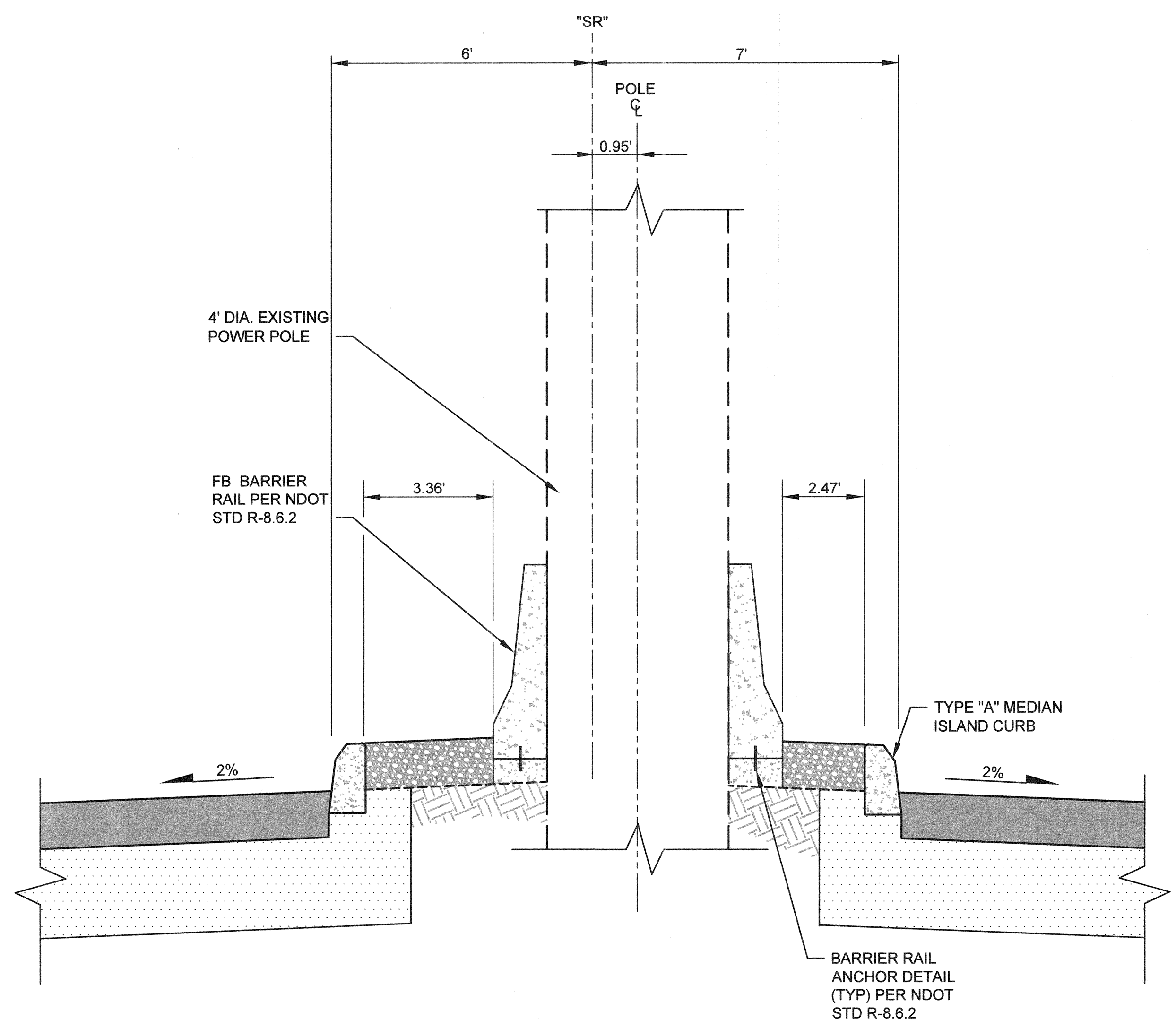
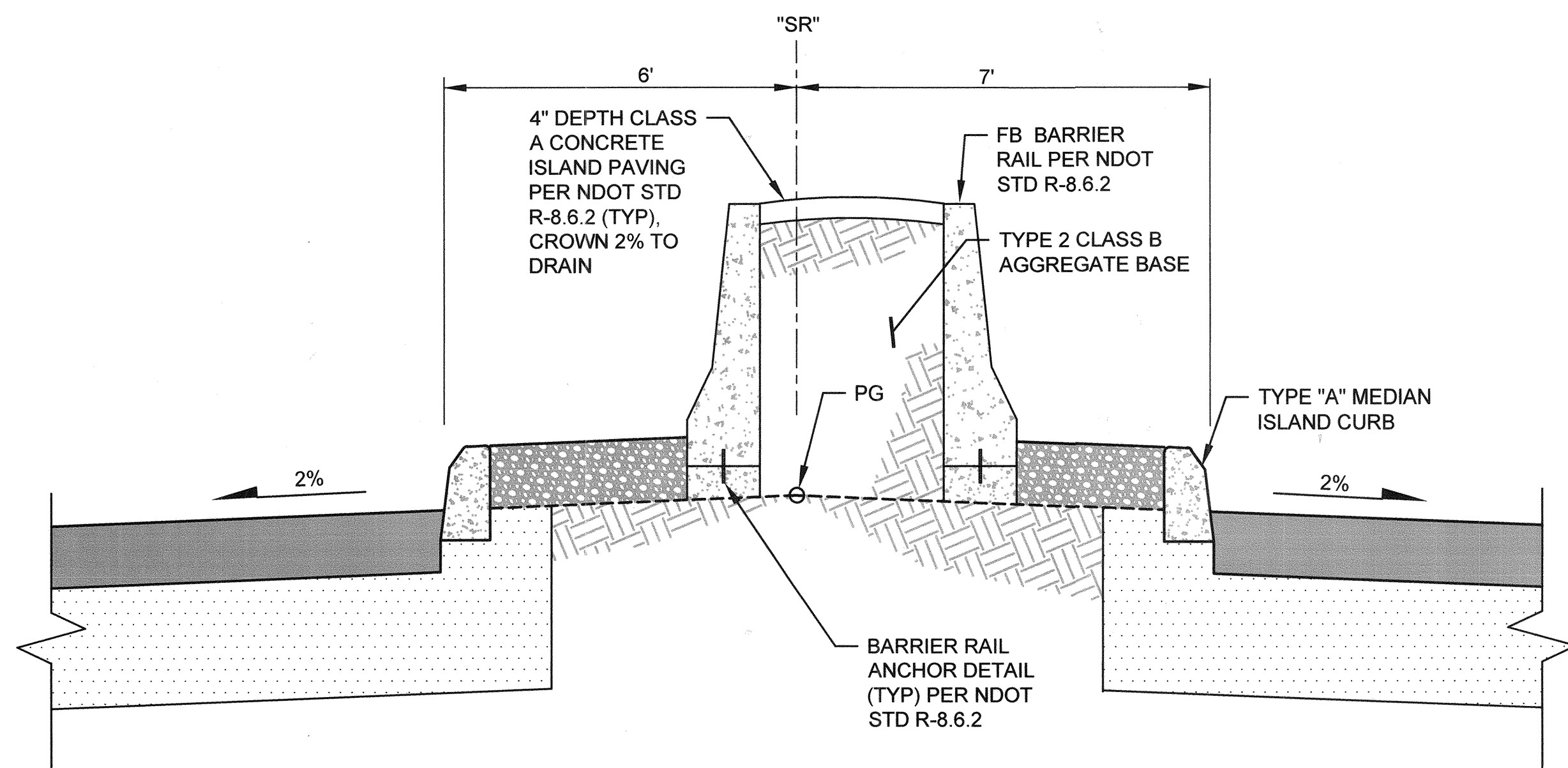
SHEET: **MEDIAN ISLAND GEOMETRICS**
TITLE: **SHAUMBER ROAD REALIGNMENT
CENTENNIAL PKWY TO WASHBURN RD**

DEPARTMENT OF PUBLIC WORKS
CAPITAL PROJECT MANAGEMENT
CITY ENGINEER: ALENE PAVEKA
PROGRAM MANAGER: ALENE PAVEKA
DESIGNED BY: B. MAHAN
DRAWN BY: F. PAULLO
CHECKED BY: J. GRIEST
APPROVED BY: J. GRIEST
CH2M HILL
2485 VILLAGE VIEW DRIVE, SUITE 300
LAS VEGAS, NV 89162
PHONE: 702.368.1100 FAX: 702.368.1107

REVISIONS			
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SHAUMBER ROAD



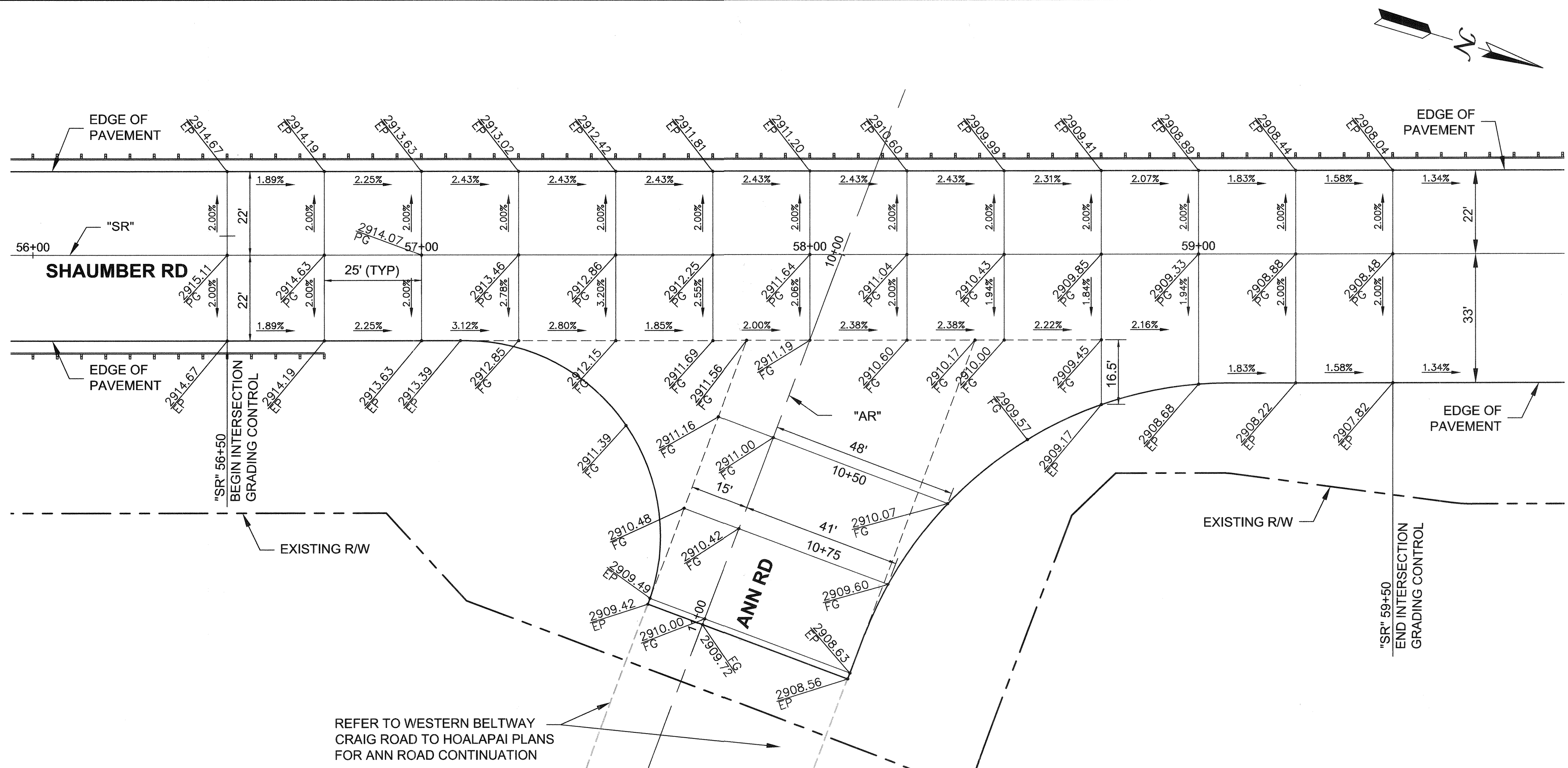
DEPARTMENT OF PUBLIC WORKS CAPITAL PROJECT MANAGEMENT CITY ENGINEER: ALENE PAVELKA, PE PROGRAM MANAGER: JEREMY LEAVITT, PE DESIGNED BY: B. MAHAN DRAWN BY: F. PAULLO CHECKED BY: J. GRIEST APPROVED BY: J. GRIEST		REVISIONS <table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td>1</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> </tr> </table>	NO.	DATE	DESCRIPTION	1			2			3			4			5		
NO.	DATE	DESCRIPTION																		
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POWER POLE BARRIER RAIL PROTECTION DETAIL		CH2M HILL 2485 VILLAGE VIEW DRIVE, SUITE 300 FARMINGTON, NEW HAMPSHIRE 03043 PHONE: 603-883-1313 FAX: 603-883-1107																		
SHAUMBER ROAD REALIGNMENT CENTENNIAL PKWY TO WASHBURN RD		SHEET: DT2 28 of 52 DATE: January 7, 2015 DRAWING NO.: 107V6351 HANSEN NO.: 45398																		

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

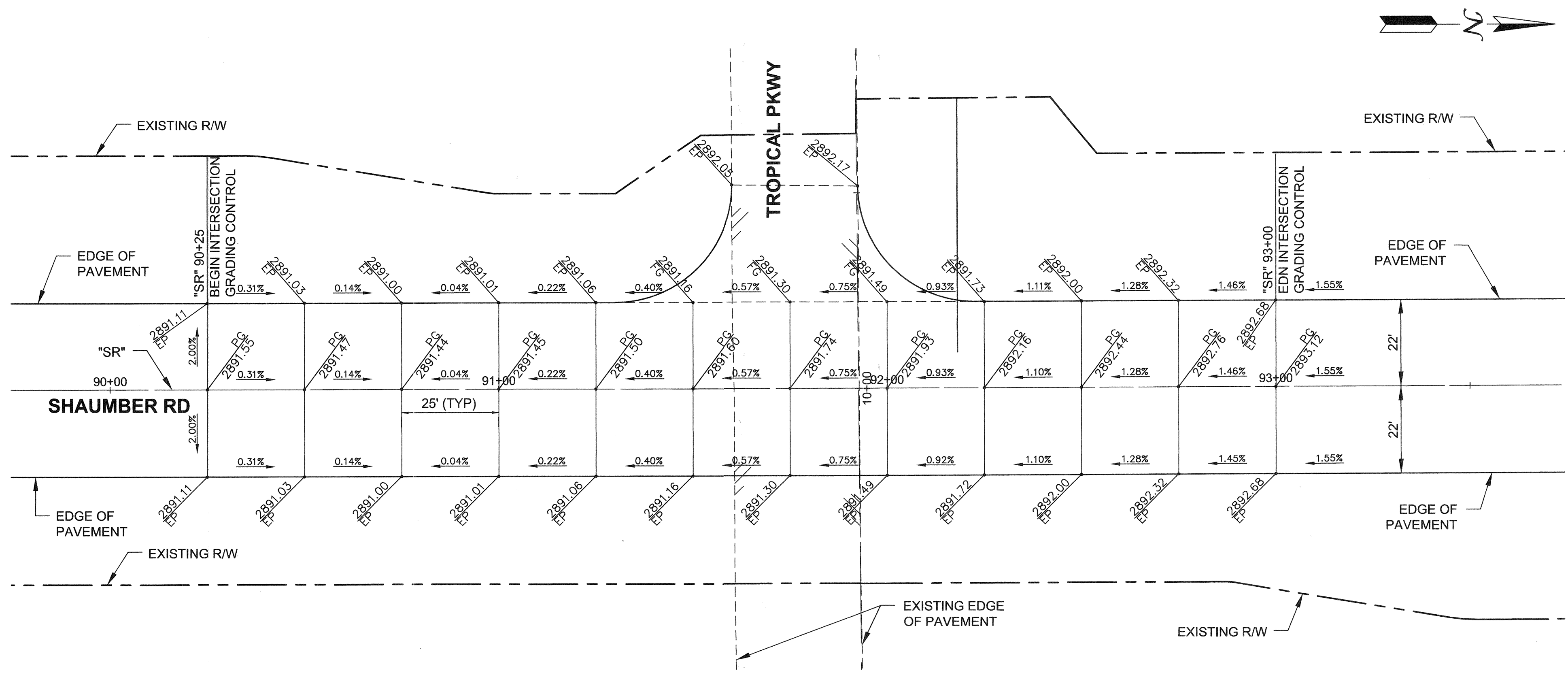
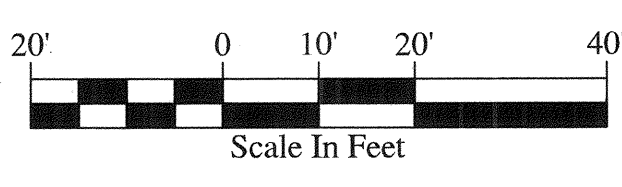
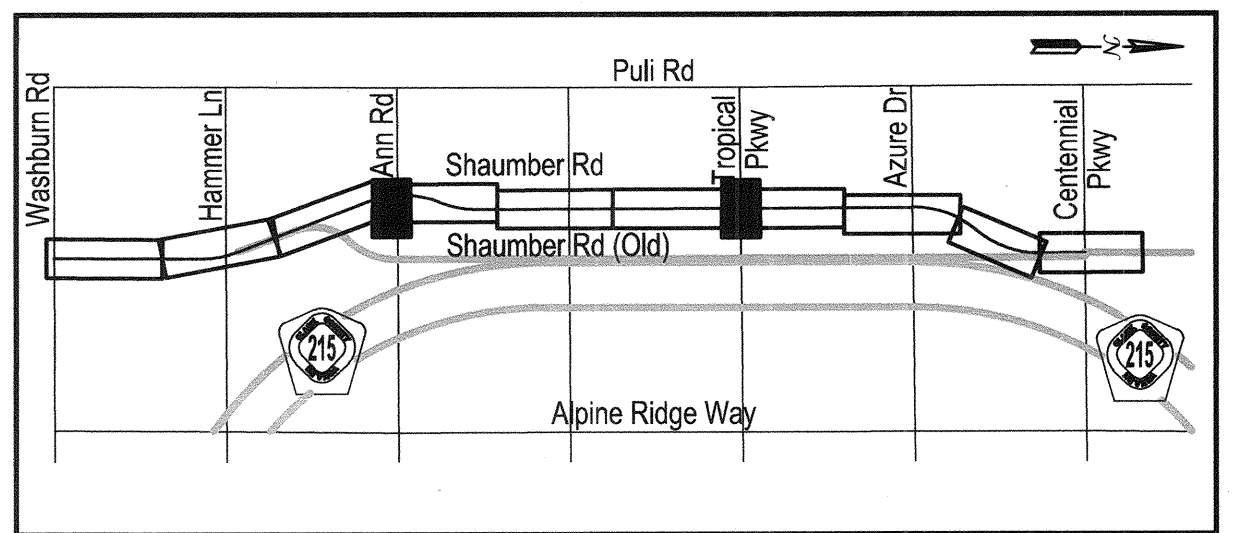
AVOID OVERHEAD POWER LINE CONTACT. IT'S COSTLY.
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 1-702-227-2929
 NV ENERGY ENVIRONMENT AND SAFETY SERVICES DEPARTMENT

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PROFESSIONAL ENGINEER STATE OF NEVADA
 JEFFREY N. GRIEST
 EXP. 06/30/15
 CIVIL
 No. 17156



FOR ROADWAY
PLAN & PROFILE
SEE SHEET RD2



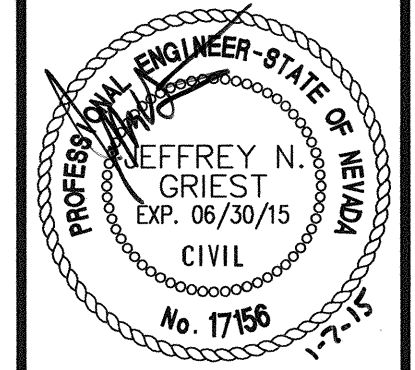
FOR ROADWAY
PLAN & PROFILE
SEE SHEET RD6

DEPARTMENT OF PUBLIC WORKS CAPITAL PROJECT MANAGEMENT CITY ENGINEER: ALIENE PAVELKA, P.E. PROGRAM MANAGER: JEREMY LEAVITT, P.E. DESIGNED BY: B. MAHAN DRAWN BY: F. PAULLO CHECKED BY: J. GRIEST APPROVED BY: J. GRIEST		CH2M HILL 2485 VILLAGE VIEW DRIVE, SUITE 350 PHOENIX, AZ 85028 PHONE 702-398-1175 FAX 702-398-1107
INTERSECTION GRADING PLAN SHAUMBER ROAD REALIGNMENT CENTENNIAL PKWY TO WASHBURN RD		SHEET: DT3 29 of 52 DATE: January 7, 2015 DRAWING NO: 107V6351

FAST
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UnderGround
1-702-432-5300
FREIGHTWAY AND ARTERIAL
SYSTEM OF TRANSPORTATION

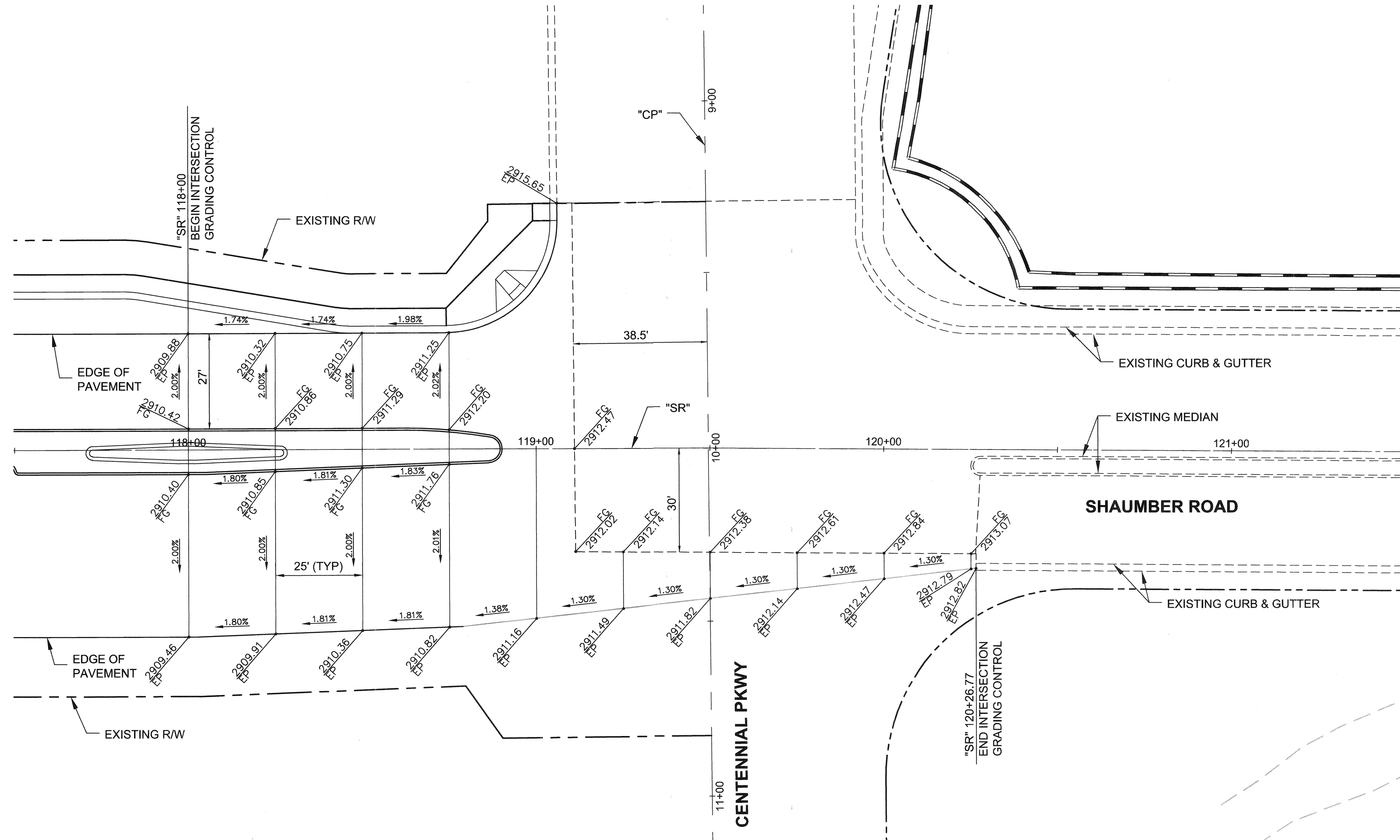
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Overhead
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NV ENERGY ENVIRONMENT AND
SAFETY SERVICES DEPARTMENT

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NV ENERGY ENVIRONMENT AND
SAFETY SERVICES DEPARTMENT

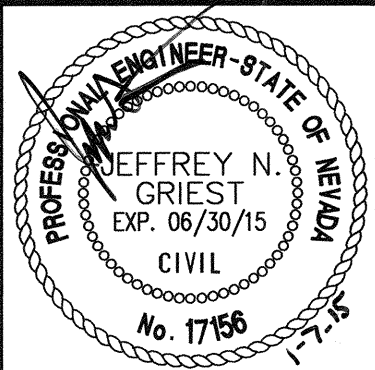
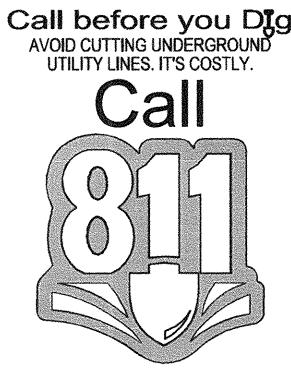
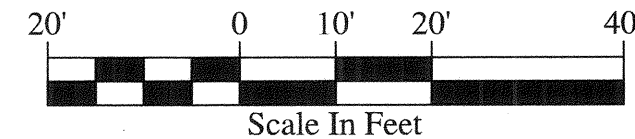
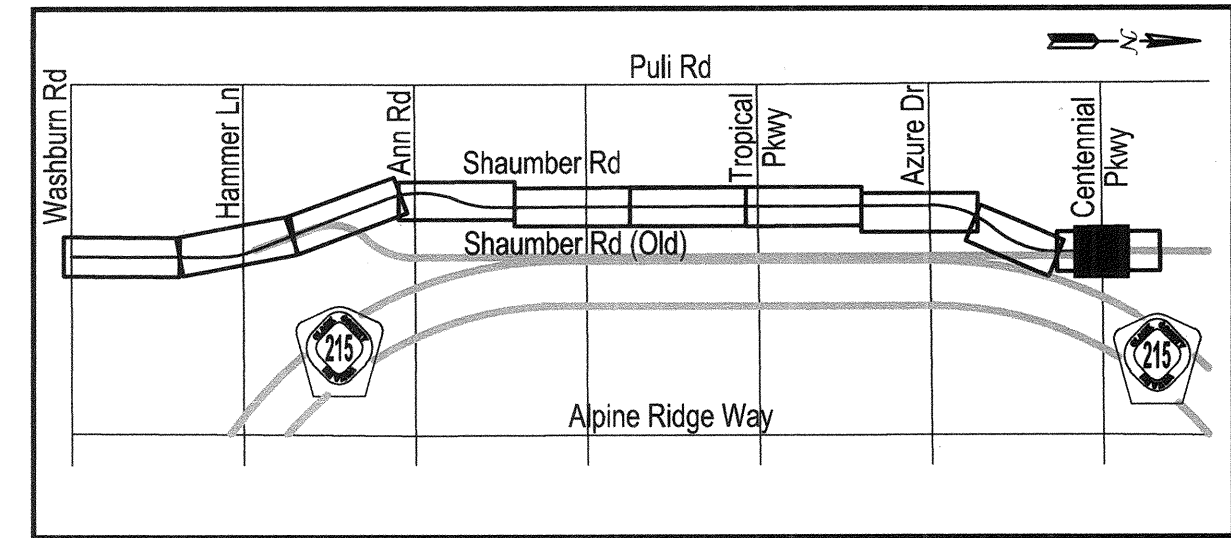


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455949-Grading-Detail.dwg



FOR ROADWAY
PLAN & PROFILE
SEE SHEET RD9



SHEET: **DT4**
30 of 52
DATE: January 7, 2015
DRAWING NO. 107V6351

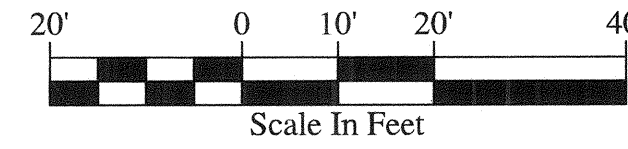
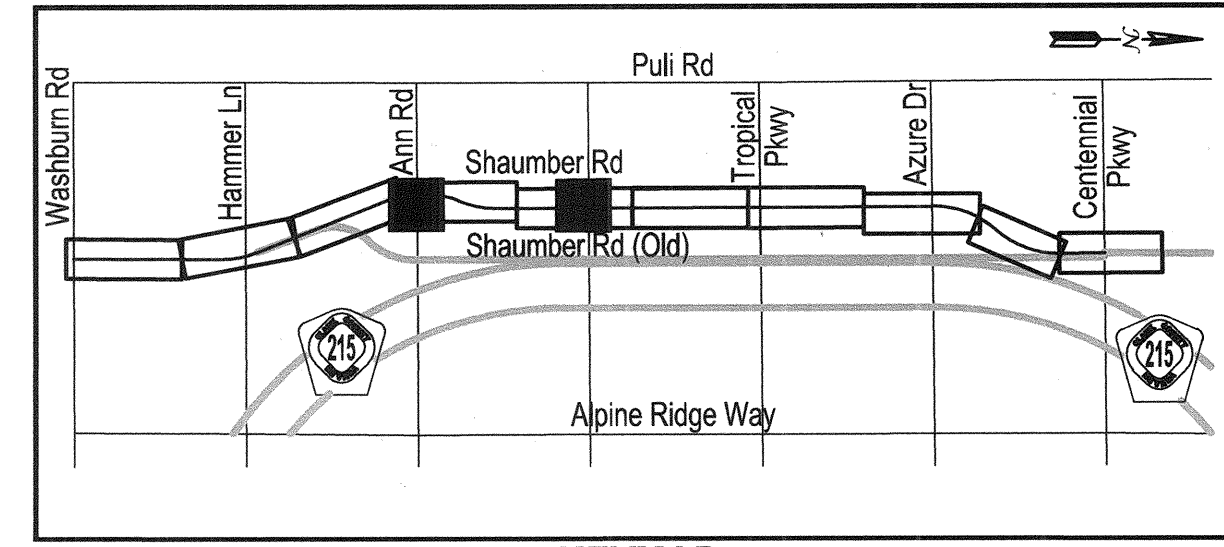
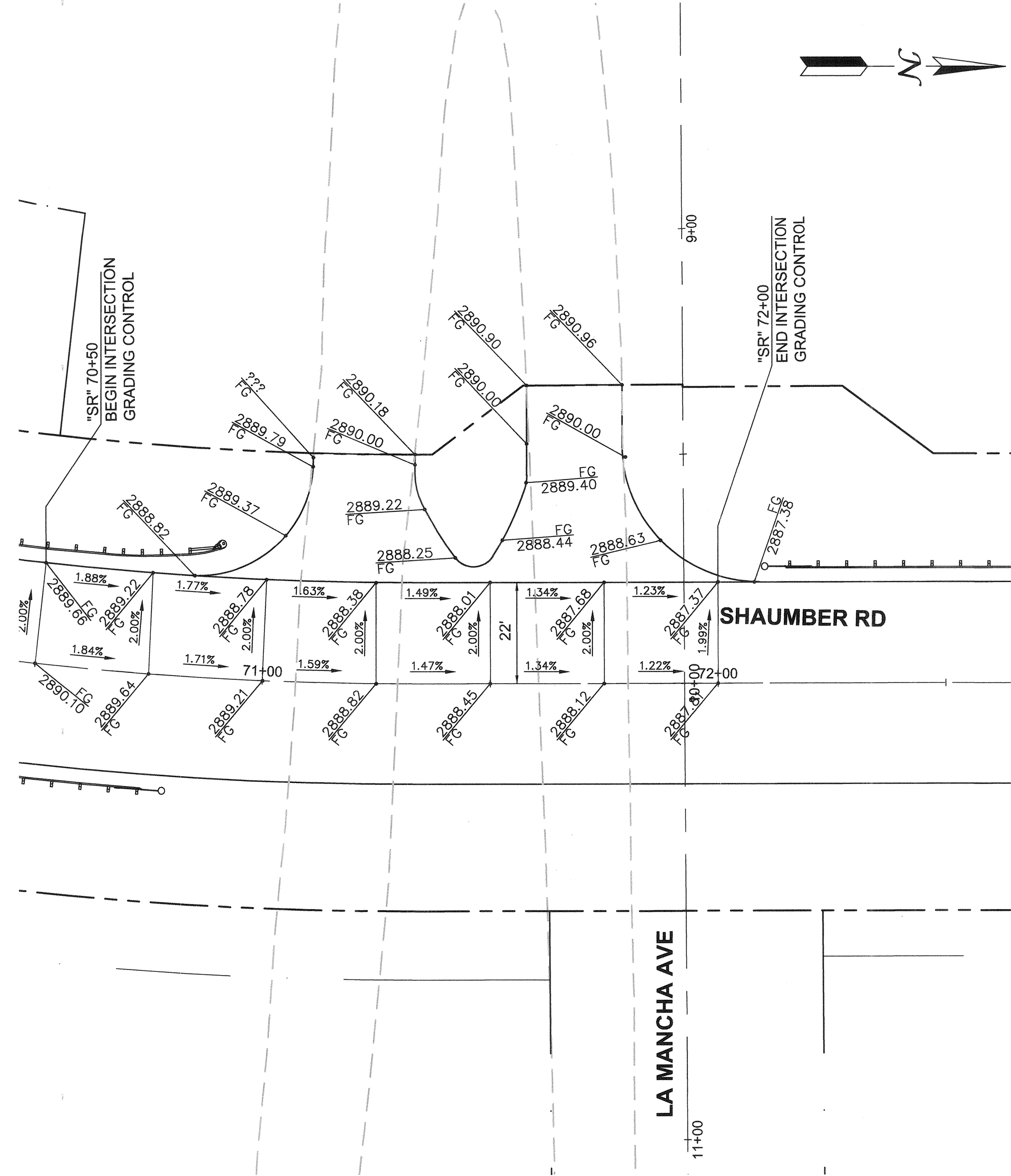
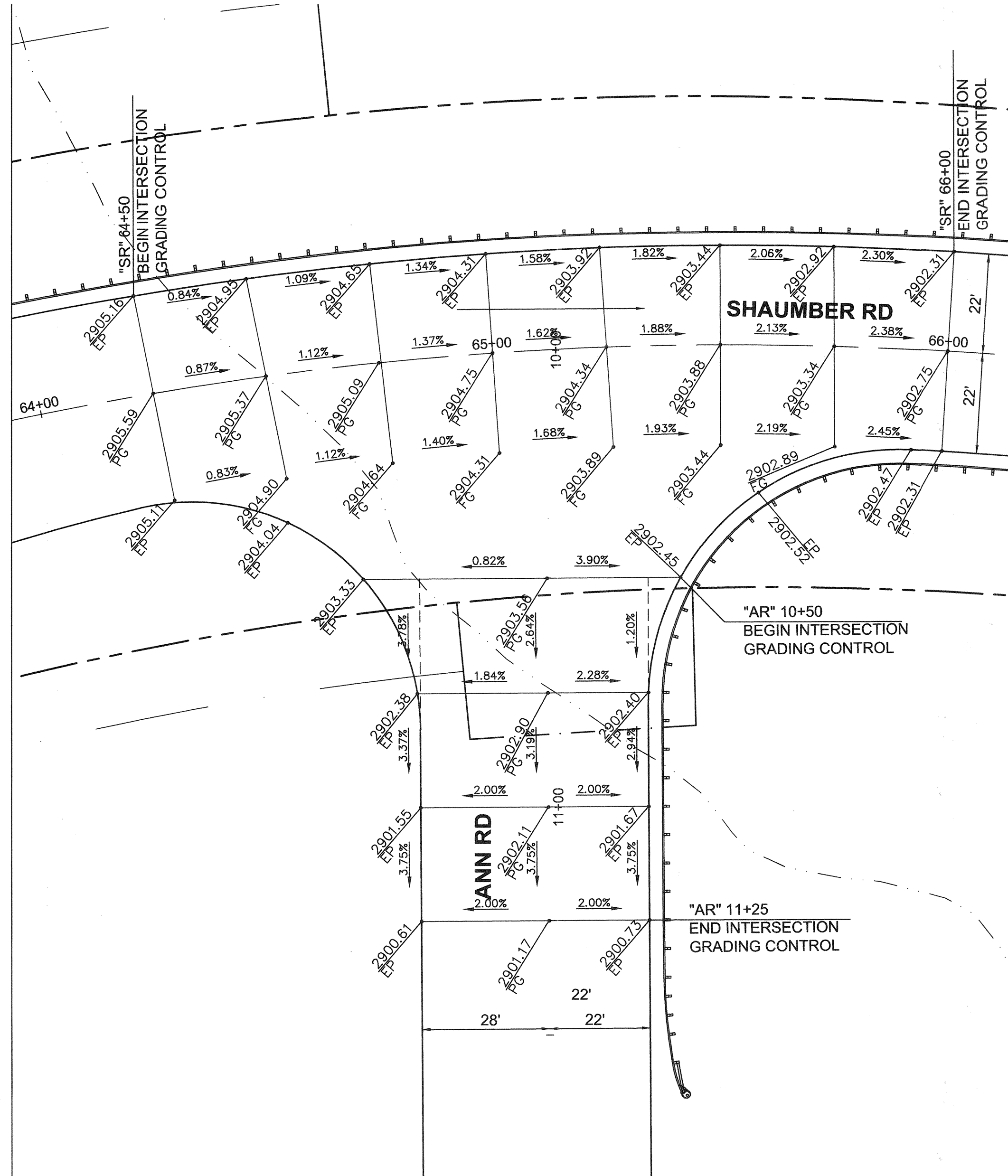
SHEET: INTERSECTION GRADING PLAN
TITLE: SHAUMBER ROAD REALIGNMENT
CENTENNIAL PKWY TO WASHBURN RD

DEPARTMENT OF PUBLIC WORKS
CAPITAL PROJECT MANAGEMENT
CITY ENGINEER: ALLENE PAVELKA, P.E.
PROGRAM MANAGER: JEREMY LEVITT, P.E.
DESIGNED BY: B. MAHAN
DRAWN BY: F. PAULLO
CHECKED BY: J. GRIEST
APPROVED BY: J. GRIEST
CH2MHILL
2000 W. WASHINGTON AVENUE, SUITE 300
HENDERSON, NEVADA 89015
PHONE 702-368-6175, FAX 702-368-1107

REVISIONS		NO.	DATE	DESCRIPTION	APPD.
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HANSEN NO. 45398

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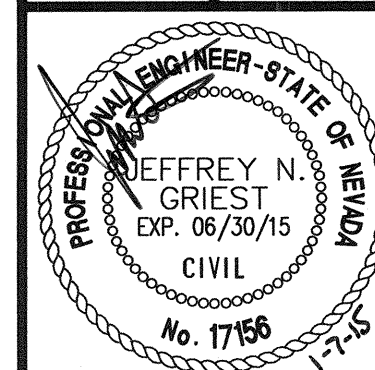


FOR ROADWAY
PLAN & PROFILE
SEE SHEET RD9

FAST
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UnderGround
1-702-432-5300
FREEWAY AND ARTERIAL
SYSTEM OF TRANSPORTATION

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Call
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SHEET: **DT5**
31 of 52
DATE: January 7, 2015
DRAWING NO.: 107V6351

SHEET: INTERSECTION GRADING PLAN
TITLE: SHAUMBER ROAD REALIGNMENT
CENTENNIAL PKWY TO WASHBURN RD

DEPARTMENT OF PUBLIC WORKS
CAPITAL PROJECT MANAGEMENT
CITY ENGINEER: ALENE PAVLOVA, P.E.
PROGRAM MANAGER: JEREMY LEAVITT, P.E.
DESIGNED BY: B. MAHAN
DRAWN BY: F. FAULLO
CHECKED BY: J. GRIEST
APPROVED BY: J. GRIEST
CH2M HILL
2485 VILLAGE VIEW DRIVE, SUITE 300
LAS VEGAS, NV 89162
PHONE 702-368-1751 FAX 702-368-1707

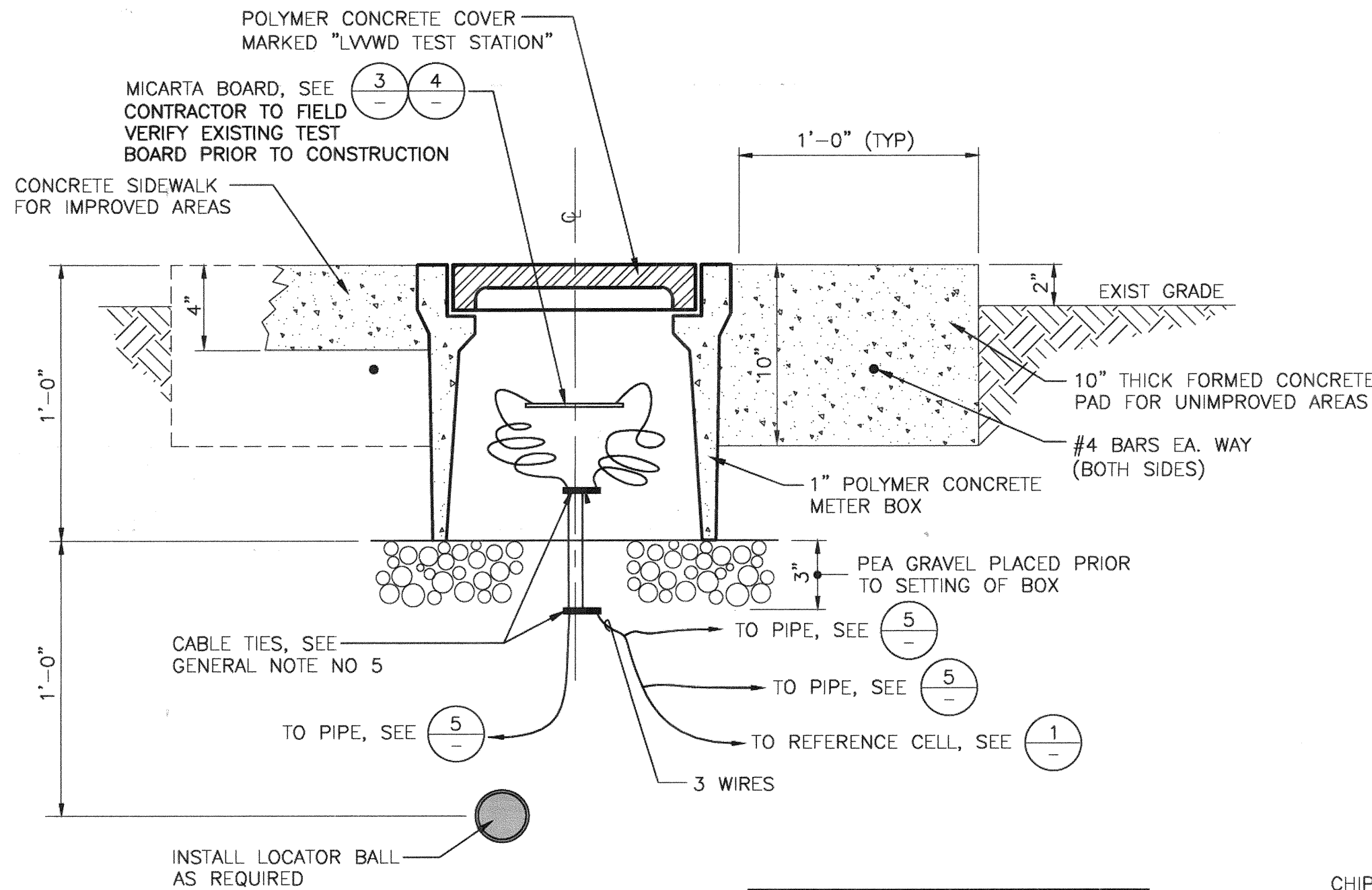
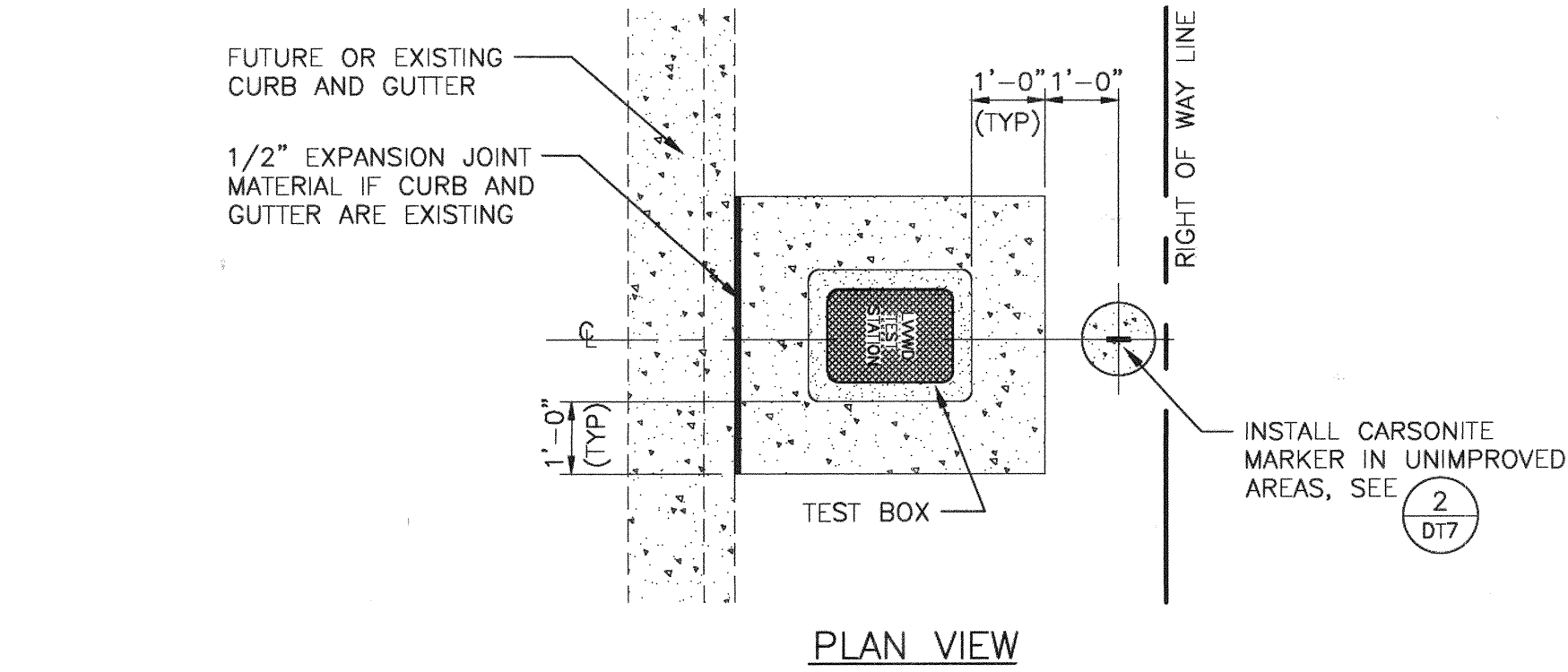
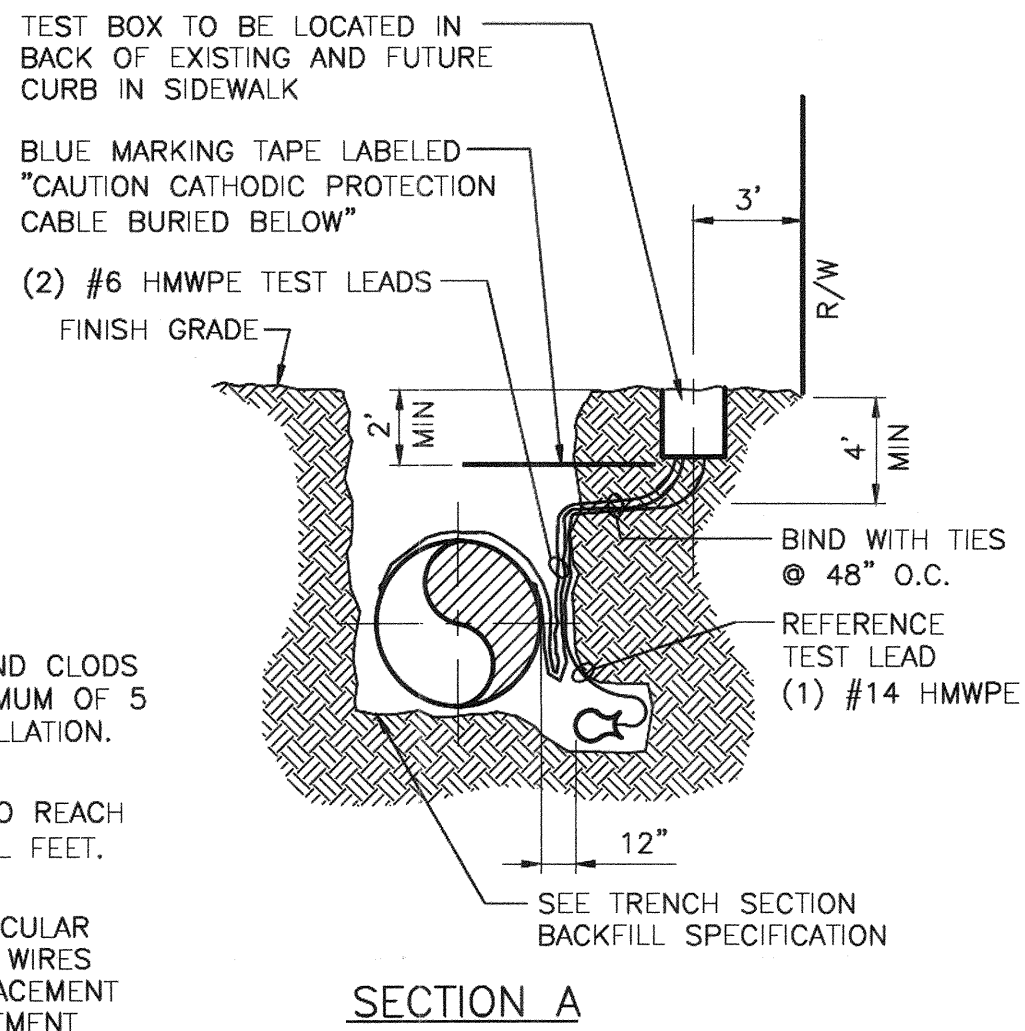
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HANSEN NO. 45398

BD NO. 18-6358

DWG. NO.	STATION	ADDITIONAL WIRE
RD9	116+21, 38' LT	42'
RD9	117+32, 59' RT	17'
RD9	117+62, 59' RT	17'

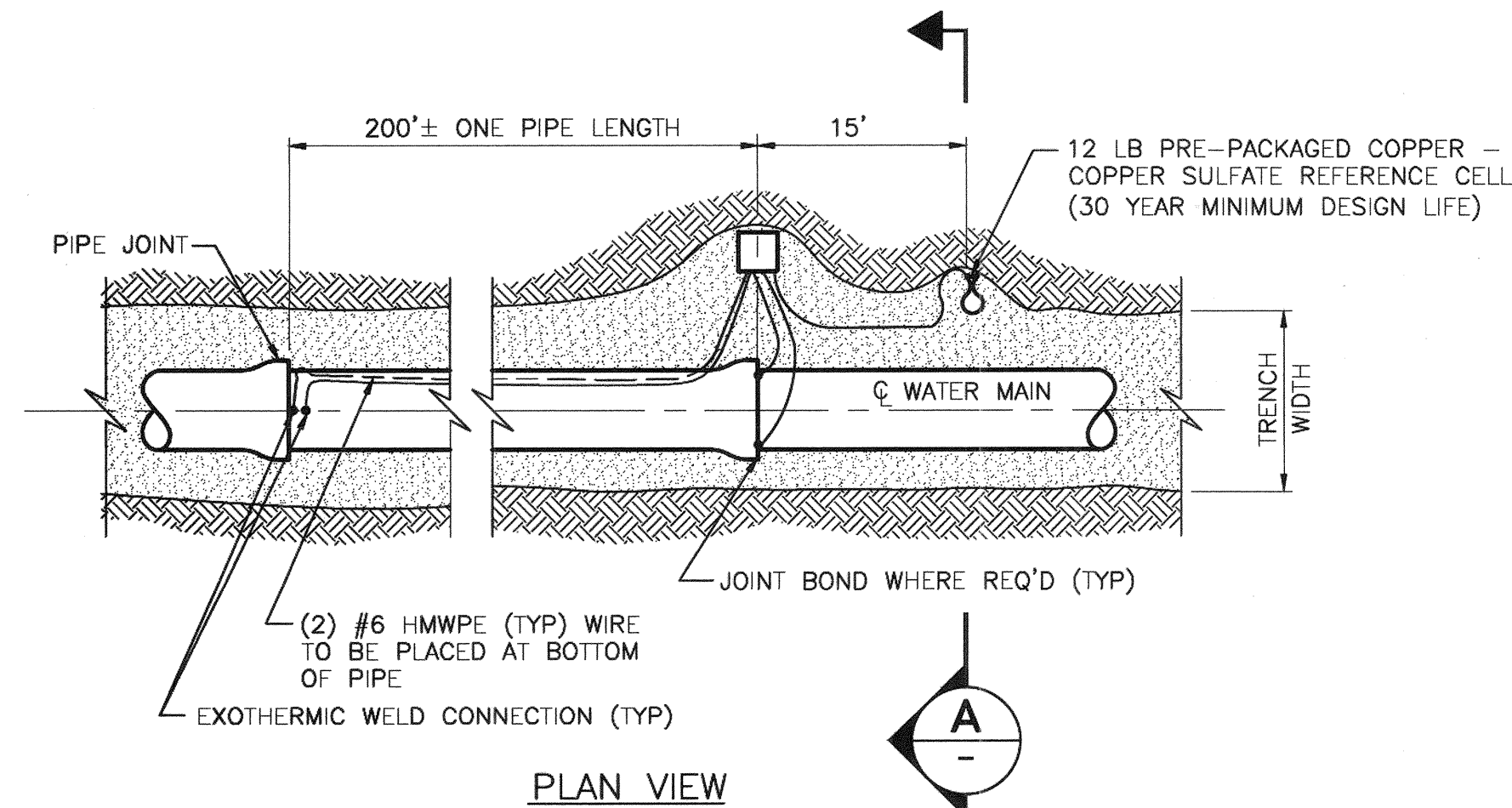
- NOTES:**
- USE ONLY NATIVE SOIL FREE OF ROCKS AND CLODS FOR BACKFILL AROUND CELLS WITH A MINIMUM OF 5 GALS OF WATER SATURATION DURING INSTALLATION. DO NOT USE SAND AS BACKFILL.
 - SUPPLY ENOUGH WIRE FROM EACH LEAD TO REACH FULL R/W WIDTH PLUS FIVE (5) ADDITIONAL FEET. COIL WIRE IN BOTTOM OF BOX.
 - TEST STATION PLACEMENT TO BE PERPENDICULAR TO PIPE, AT INTERSECTIONS, TEST STATION WIRES TO BE PLACED PARALLEL TO PIPE FOR PLACEMENT PERPENDICULAR TO PIPE AFTER ROAD EASEMENT RADIUS.



DESIGNER NOTE:
SEE GENERAL NOTES THIS SHEET

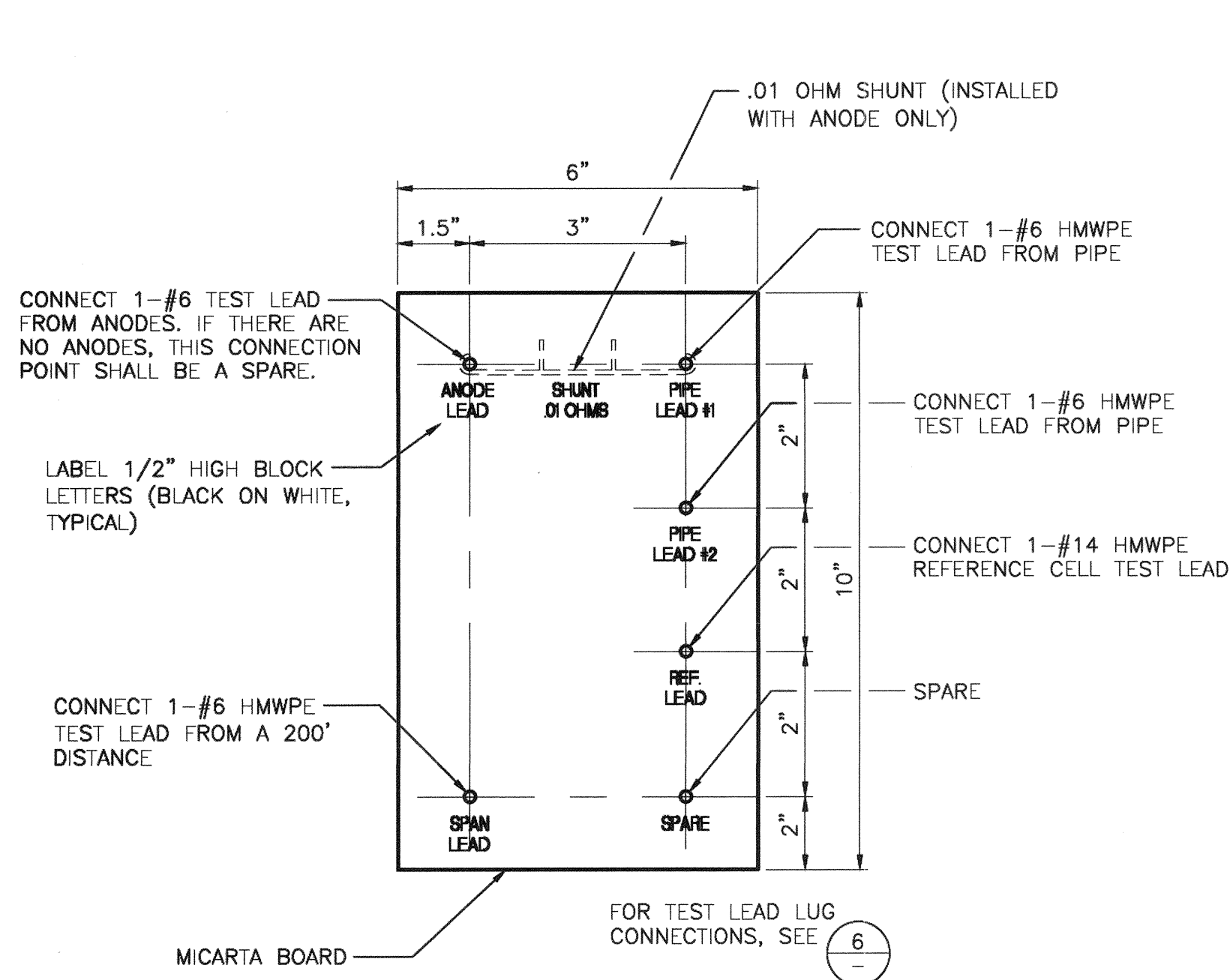
TEST BOX DETAIL - TYPICAL

NOT TO SCALE



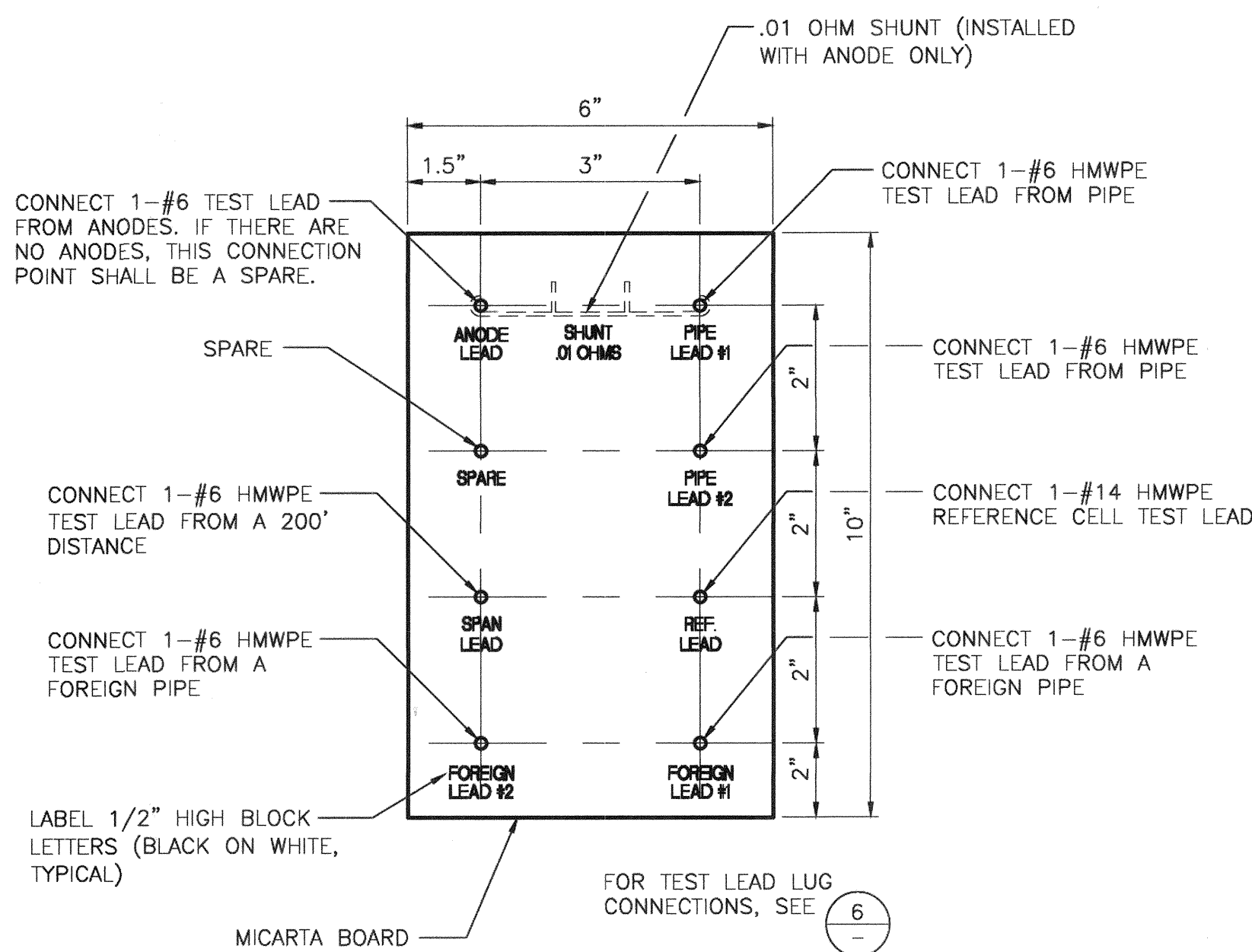
TYPE 'T' TEST STATION WITHOUT ANODES

NOT TO SCALE



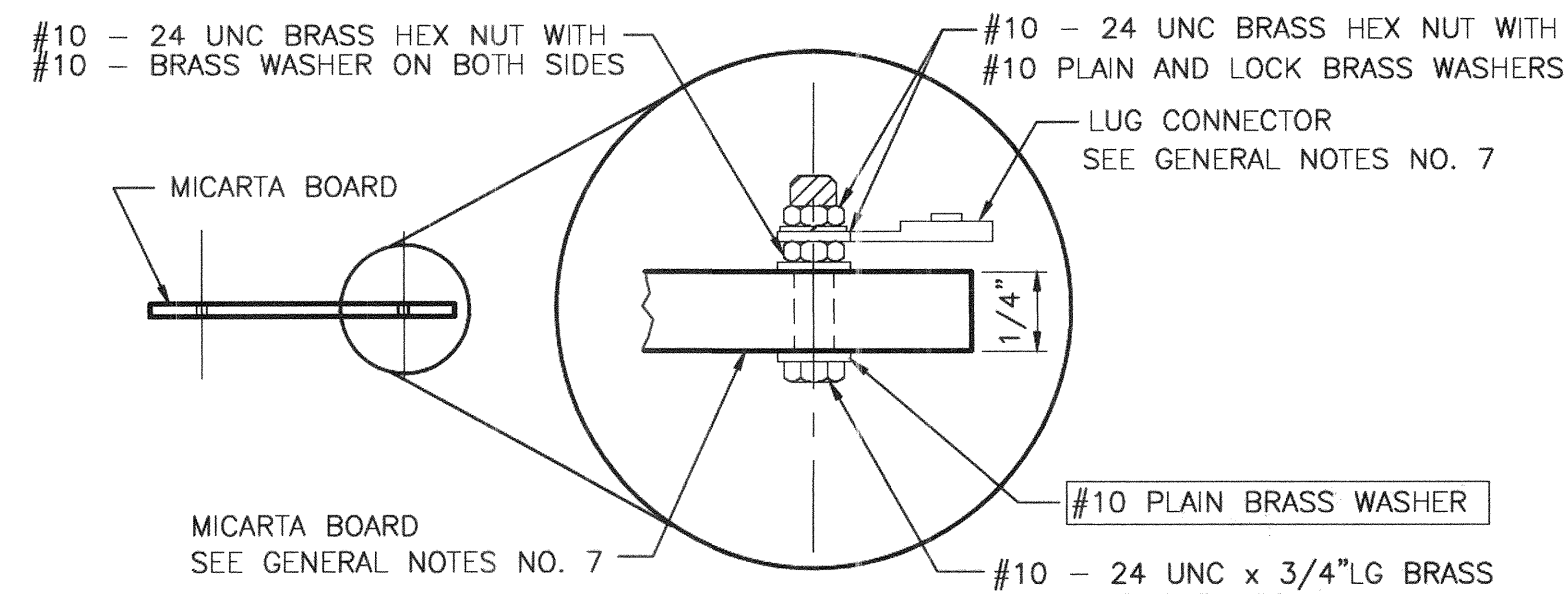
STANDARD TEST BOARD INSTALLATION

NOT TO SCALE



TEST BOARD FOR JOINT TEST STATION

NOT TO SCALE

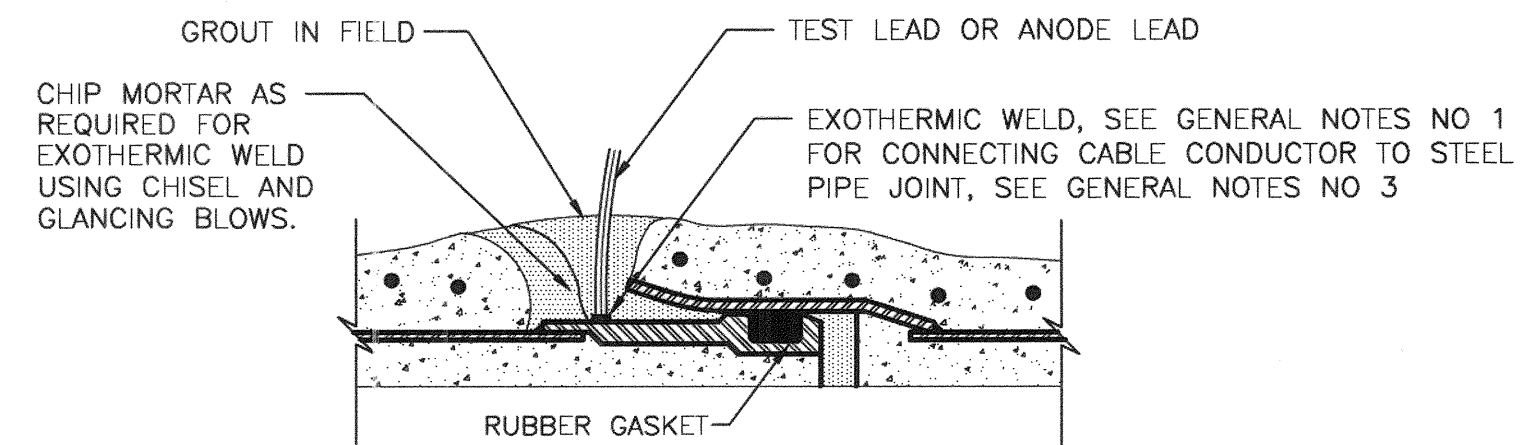


TEST LEAD OR ANODE LEAD CONNECTION TO PIPE JOINT CARNEGIE OR ROLLED-GROOVE DETAIL

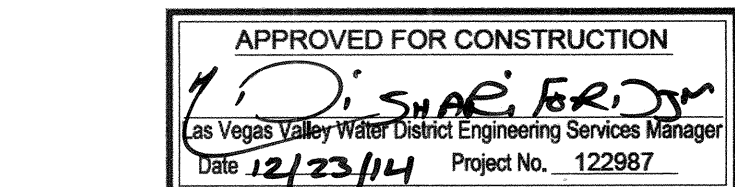
NOT TO SCALE

GENERAL NOTES

- ALL TEST LEADS AND ANODE LEADS SHALL BE ATTACHED TO THE STEEL CYLINDER OF THE PIPE BY MEANS OF A "CADWELD" EXOTHERMIC WELD.
- ALL TEST LEADS AND ANODE LEADS SHALL BE ATTACHED TO EITHER THE PIPELINE'S BELL END, SPIGOT END OR PLAIN END AS SHOWN ON THE DRAWING.
- ALL EXPOSED PORTIONS OF THE EXOTHERMIC WELD AND COPPER CABLE CONDUCTORS SHALL BE COATED WITH MULTI-USE EPOXY PRIOR TO PLACING GROUT AROUND THE PIPELINE JOINT.
- ALL TEST LEADS AND ANODE LEADS SHALL BE RUN WITHOUT SPLICES FROM THE CONNECTION AT THE PIPE TO THE CONNECTION AT THE TEST STATION BOX.
- ALL TEST LEADS AND ANODE TEST LEADS INSIDE THE TEST BOX SHALL BE BUNDLED TOGETHER AT 8 INCH INTERVALS WITH NYLON CABLE TIES. ALL TEST STATION LEADS SHALL BE PROVIDED WITH SUFFICIENT SLACK SO THAT THE TEST BOARD MAY BE EXTENDED A MINIMUM OF 4 FEET ABOVE THE TEST BOX.
- ALL TEST LEADS AND ANODE LEADS (WIRE INSULATION) ARE COLOR CODED AS FOLLOWS:
TEST STATION LEADS FROM PIPE - WHITE
REFERENCE CELL TEST LEADS - RED
ANODE TEST LEADS - GREEN
200' TEST LEAD - BLUE
FOREIGN PIPE LEAD - YELLOW
CASING - BLACK
- ALL TEST LEADS AND ANODE LEADS SHALL BE COLOR CODED WITH COLORED WIRE INSULATION. COLORED TAPING NOT PERMITTED (TYP).
- ALL TEST LEADS AND ANODE LEADS SHALL BE CONNECTED TO THE BRASS BOLTS ON THE TEST BOARD WITH SOLDERLESS SCREW TIGHT COPPER LUG CONNECTORS OR PRESSURE TERMINAL CONNECTORS. ALL FASTENERS (SCREWS, LUGS) SHALL BE BRASS OR COPPER.
- ALL TEST LEADS AND ANODE TEST LEADS SHALL HAVE A MINIMUM OF 4' OF SLACK NEAR THE PIPE JOINT TO PREVENT DAMAGE DURING THE BACKFILL OPERATION.
- ALL TEST LEADS AND ANODE TEST LEADS SHALL BE PLACED ALONG THE SIDE AND BELOW THE SPRINGLINE OF THE PIPE.
- DUAL TEST STATIONS - LABEL ALL WIRES TO DISTINGUISH.
- CABLE ASSEMBLIES SHALL BE USED WHEN PRACTICAL.
- TEST STATION PLACEMENT TO BE PERPENDICULAR TO PIPE. AT INTERSECTIONS TEST STATION WIRES TO BE PLACED PARALLEL TO PIPE FOR PLACEMENT PERPENDICULAR TO PIPE AFTER ROAD EASEMENT RADIUS.
- PRE-PACKAGED ANODES SHALL HAVE 6" LIFT OF COMPACTED NATIVE BACKFILL. AFTER BACKFILL IS IN PLACE, SATURATE THE AREA WITH TEN (10) GALLONS MINIMUM OF WATER. AFTER ALL WATER HAS BEEN ABSORBED CONTINUE BACKFILLING.
- ALL BURIED WIRE SHALL BE PLACED IN A 4" SCH 40 PVC ELECTRICAL CONDUIT FROM THE POINT THAT THE WIRES RUN PERPENDICULAR FROM THE PIPELINE TO THE TERMINATION IN THE TEST BOX. DO NOT PLACE RIBBON IN CONDUIT. CONDUIT NOT SHOWN ON PLANS FOR CLARITY.



NOTE:
FOR WELDED JOINT, ATTACH TEST LEAD OR ANODE LEAD BY EXOTHERMIC WELD TO THE EXPOSED STL END OF PIPE.



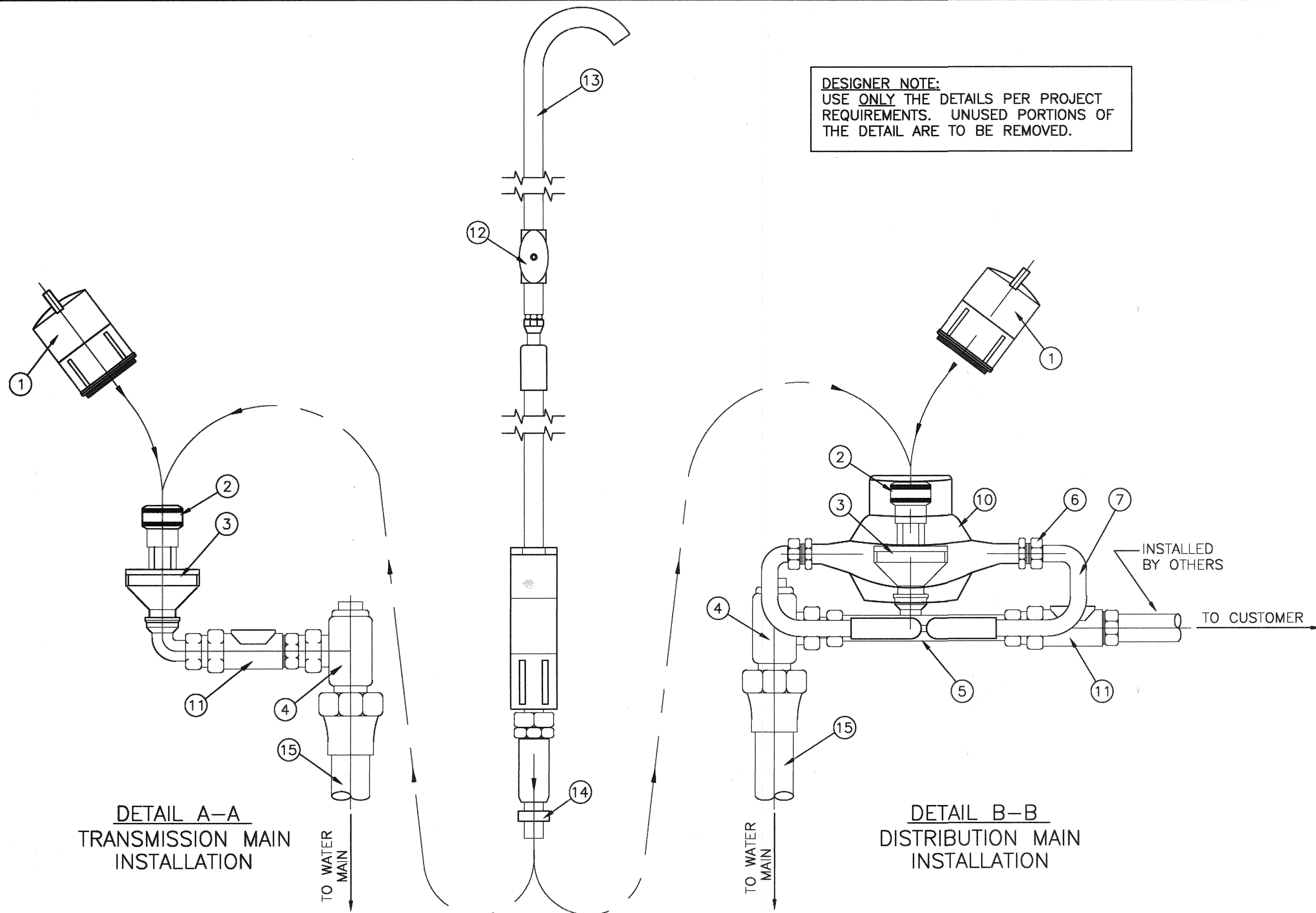
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NV ENERGY ENVIRONMENT AND SAFETY SERVICES DEPARTMENT



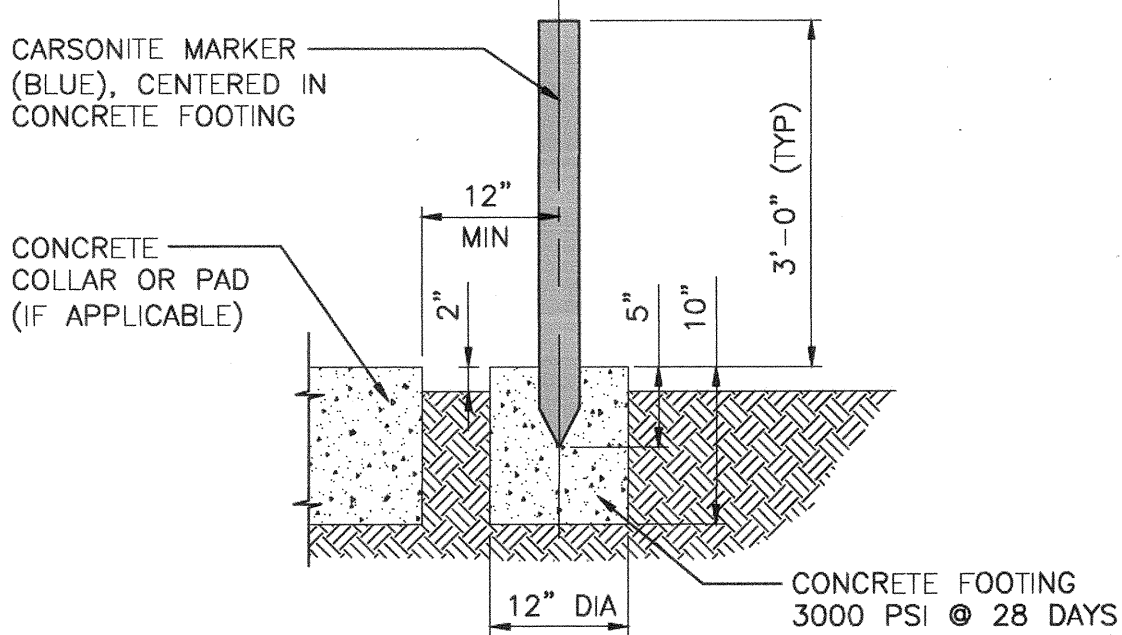
DEPARTMENT OF PUBLIC WORKS
CAPITAL PROJECT MANAGEMENT
CITY ENGINEER: ALLEN E. PAVELKA, P.E.
PROGRAM MANAGER: JEREMY LEVITT, P.E.
DESIGNED BY: B. MAHAN
DRAWN BY: F. PAULLO
CHECKED BY: J. GRIEST
APPROVED BY: J. GRIEST

MISCELLANEOUS WATER DETAILS
TITLE: SHAUMBER ROAD REALIGNMENT CENTENNIAL PKWY TO WASHBURN RD

DT6
32 of 52
DATE: December 17, 2014
DRAWING NO. 107V6351



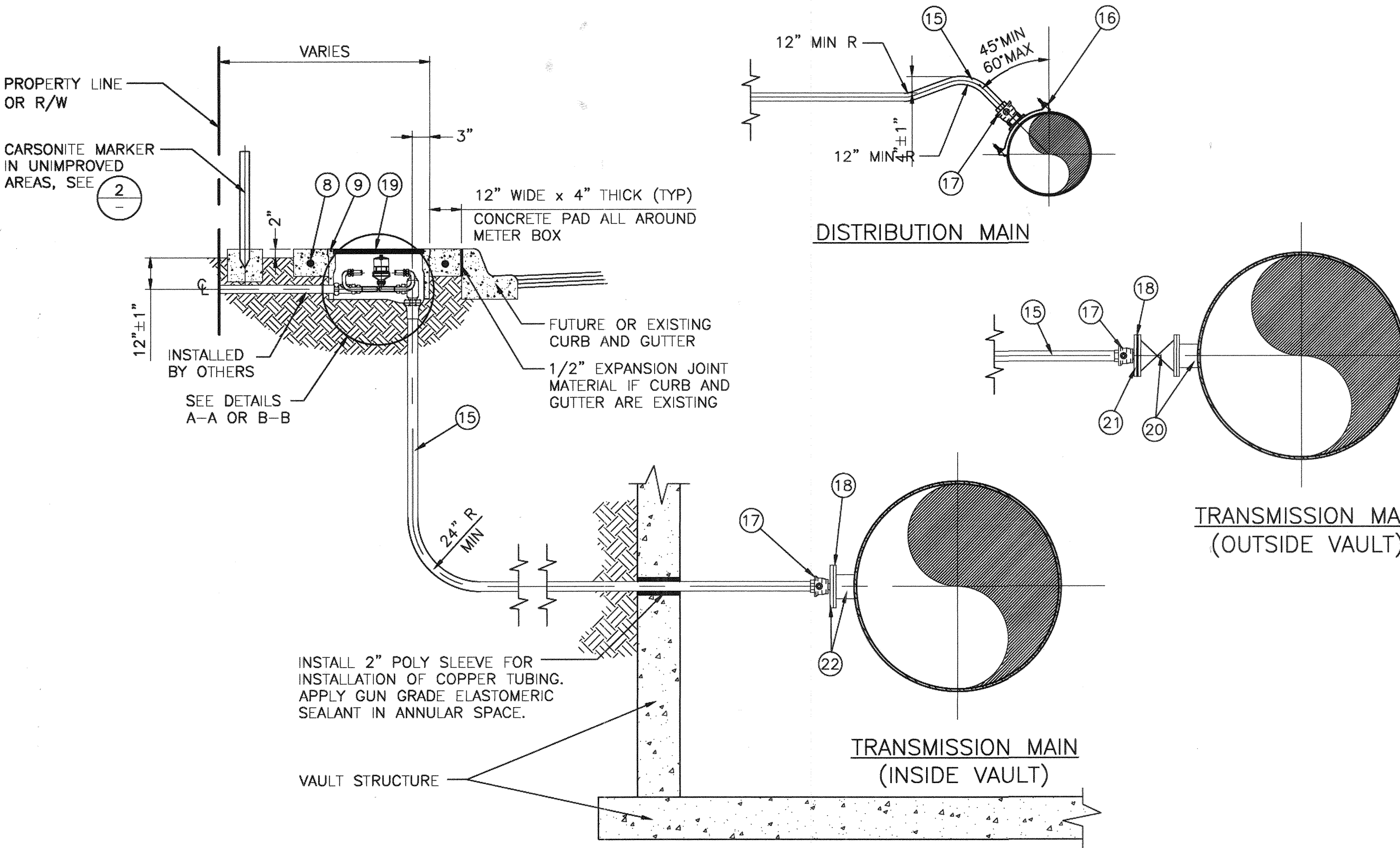
COMPONENT DESCRIPTIONS	
ITEM	DESCRIPTION
1	HOUSING CAP
2	MAIN SAMPLING VALVE
3	BRASS HOUSING
4	1" x 3/4" BALL ANGLE METER STOP W/PADLOCK WING W/O LEVER HANDLE
5	BRASS BASE
6	3/4" BRASS METER NUT (W/GASKET)
7	METER SETTER (COPPER)
8	#3 REBAR IN CONCRETE COLLAR IF NO SIDEWALK
9	1" METER BOX INSTALLED AT FUTURE FINISH GRADE (WITHIN 1")
10	3/4" METER
11	DUAL CHECK VALVE BACKFLOW PREVENTER
12	THROTTLING VALVE
13	PROBE ROD W/UNTHREADED SPIGOT (MODEL 1500)
14	VALVE KEY
15	1" COPPER TUBING
16	1" SERVICE SADDLE (PVC OR DIP)
17	1" CORP STOP
18	INSULATING FLANGE, SEE DETAIL [] ON DWG [] (PL05-4)
19	"LVVWD SAMPLING STATION" MARKED ON LID
20	6" FLANGED OUTLET WITH 6" FLG GATE VALVE
21	6" x 1" THREADED BRASS REDUCING FLANGE
22	4" FLANGED OUTLET WITH 4" x 1" THREADED BRASS REDUCING FLANGE



NOTE:
SEE SPECIFICATIONS FOR ALL APPROVED PRODUCTS.

CARSONITE MARKER INSTALLATION

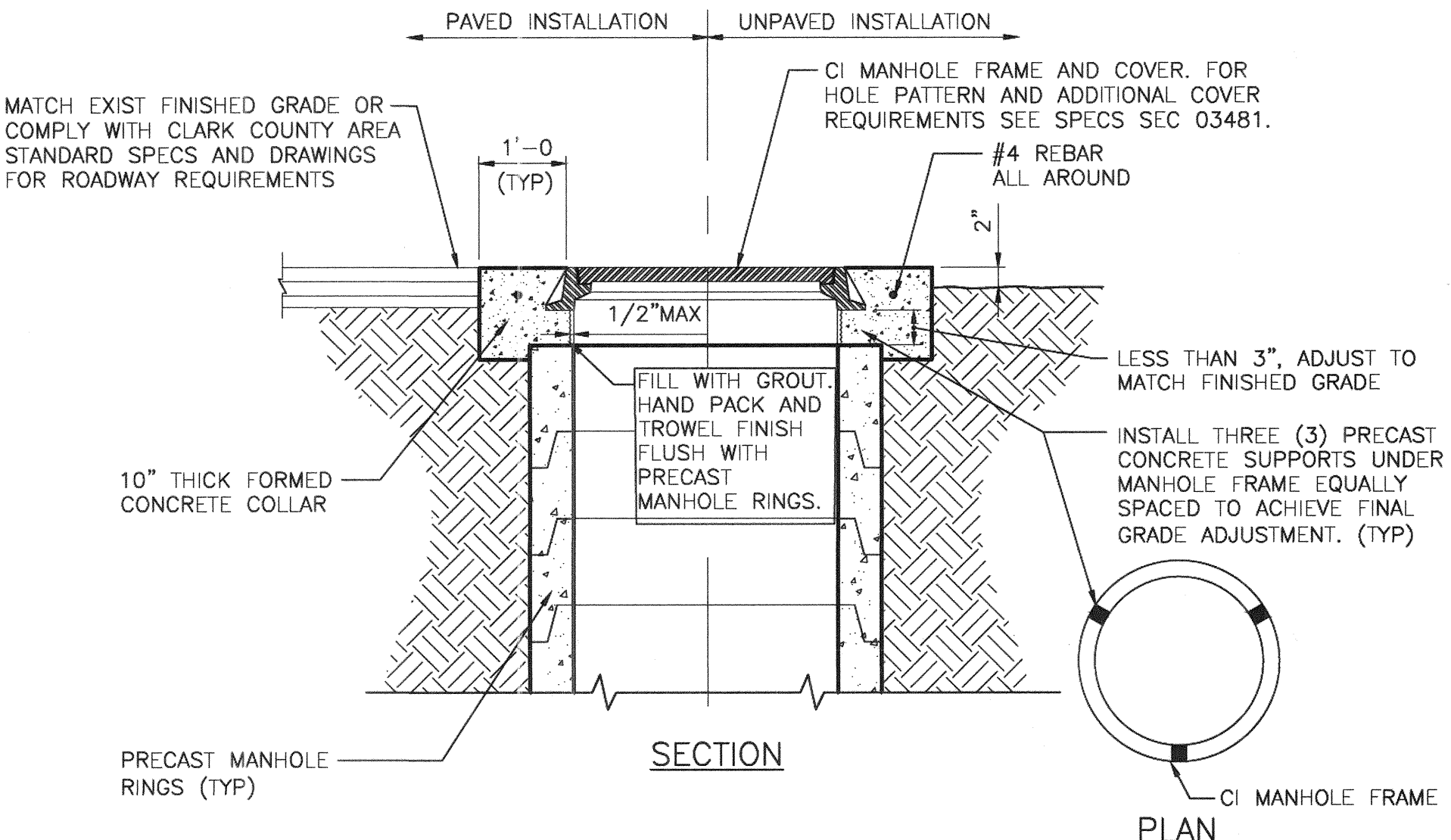
NOT TO SCALE



- NOTES**
- ADDITIONAL SAMPLING ASSEMBLY INFORMATION SEE SPECS SEC 15225.
 - ALL COPPER TUBING SHALL BE WRAPPED WITH TWO LAYERS OF SIX (6) MIL POLYETHYLENE AND BACKFILLED ALL AROUND WITH 4" MINIMUM OF SAND.

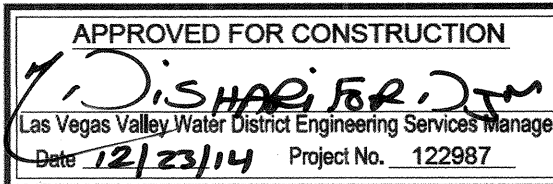
WATER QUALITY TEST STATION INSTALLATION

NOT TO SCALE



MANHOLE COVER AND COLLAR INSTALLATION

NOT TO SCALE



AVOID OVERHEAD POWER LINE CONTACT. IT'S COSTLY.

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Overhead

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NV ENERGY ENVIRONMENT AND SAFETY SERVICES DEPARTMENT



DEPARTMENT OF PUBLIC WORKS

CAPITAL PROJECT MANAGEMENT

MISCELLANEOUS WATER DETAILS

SHAUMBER ROAD REALIGNMENT

CENTENNIAL PKWY TO WASHBURN RD

DT7

DATE: December 17, 2014

DRAWING NO. 107V6351

HANSEN NO. 45398

APPROVED BY: J. GRIEST

CHECKED BY: J. GRIEST

DRAWN BY: F. PAULLO

DESIGNED BY: B. MAHAN

PROGRAM MANAGER: JEREMY LEVITT, P.E.

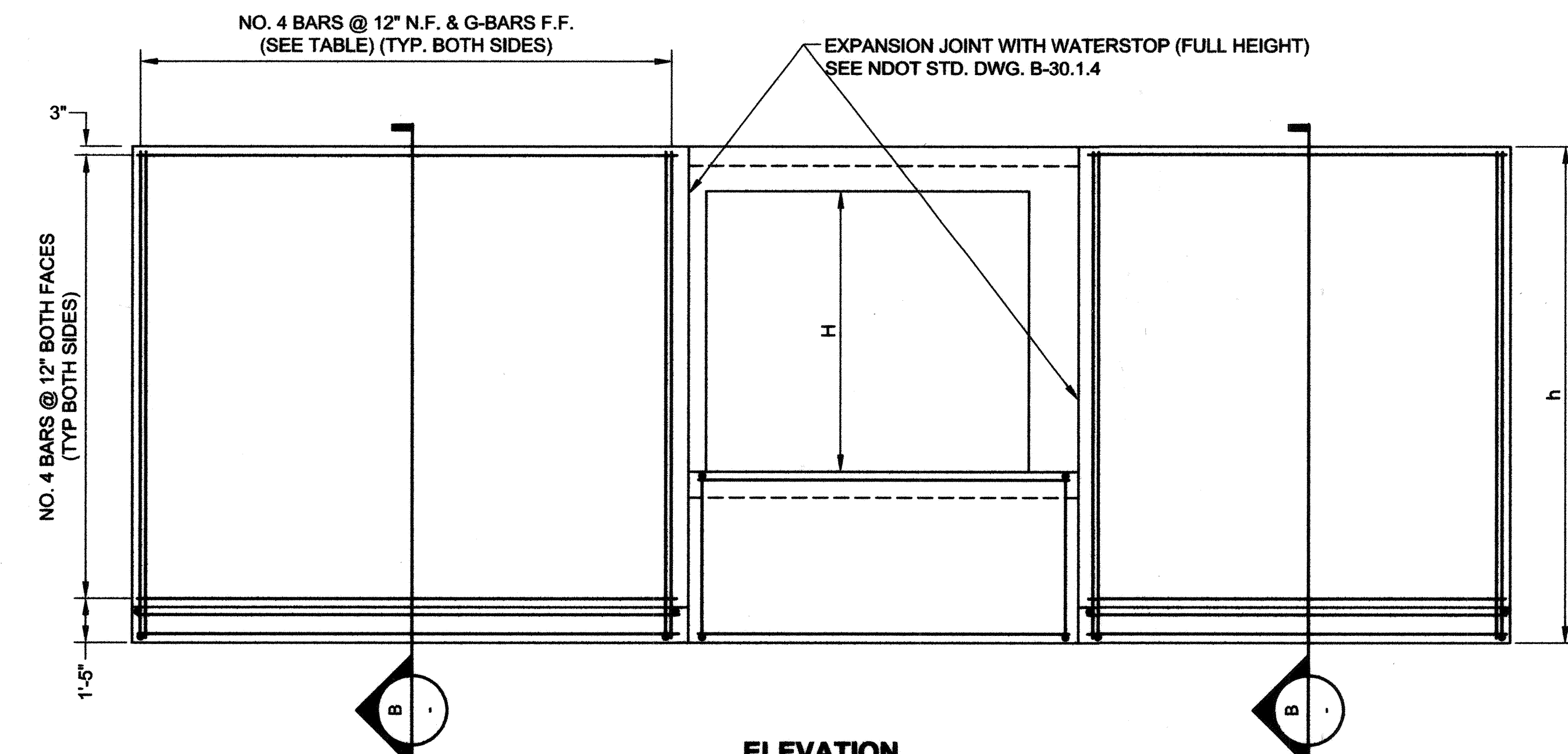
CITY ENGINEER: ALLEN PAVELKA, P.E.

CH2M HILL

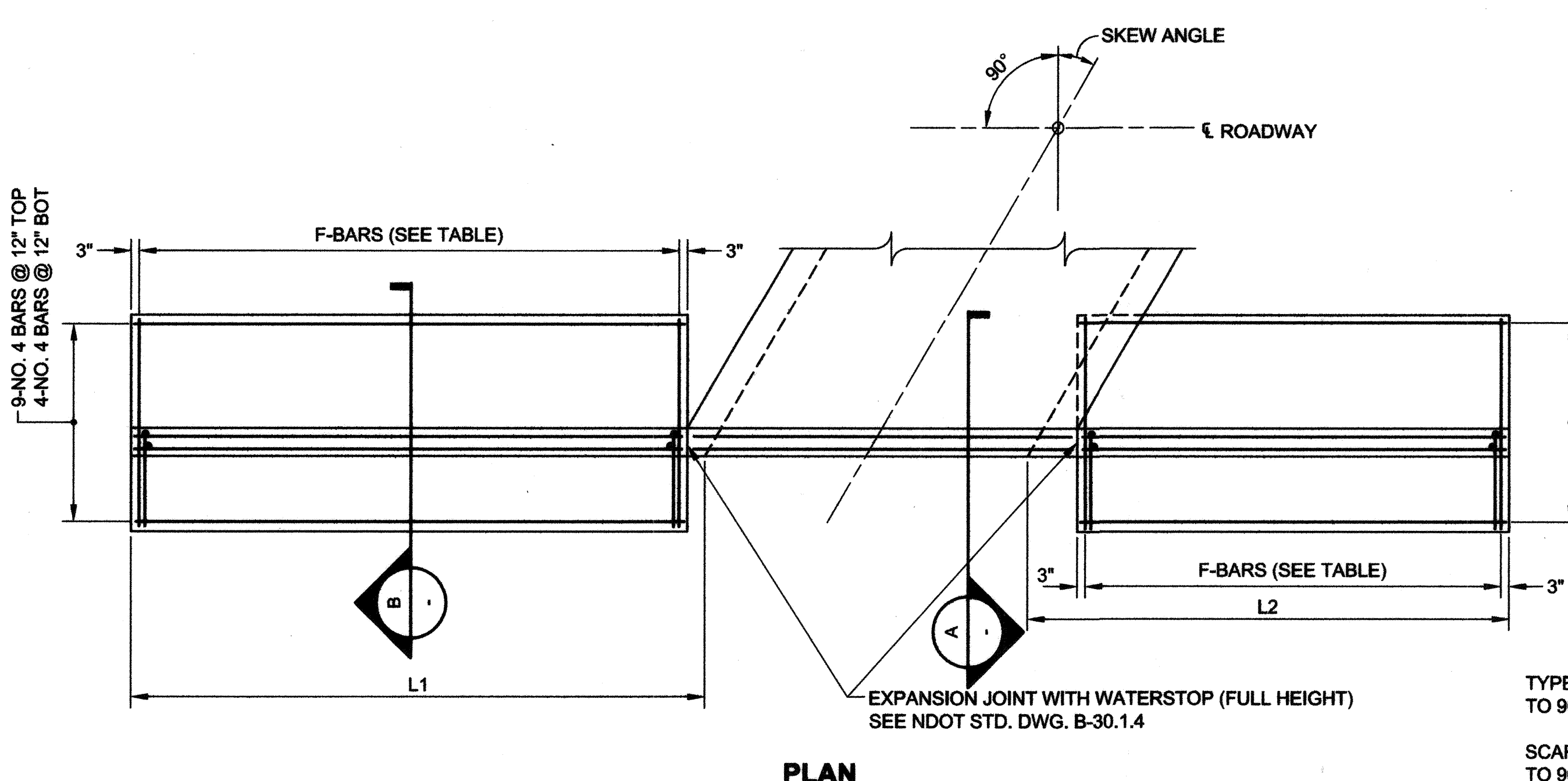
2445 VILLAGE VIEW DRIVE, SUITE 300

CLARK COUNTY, NEVADA

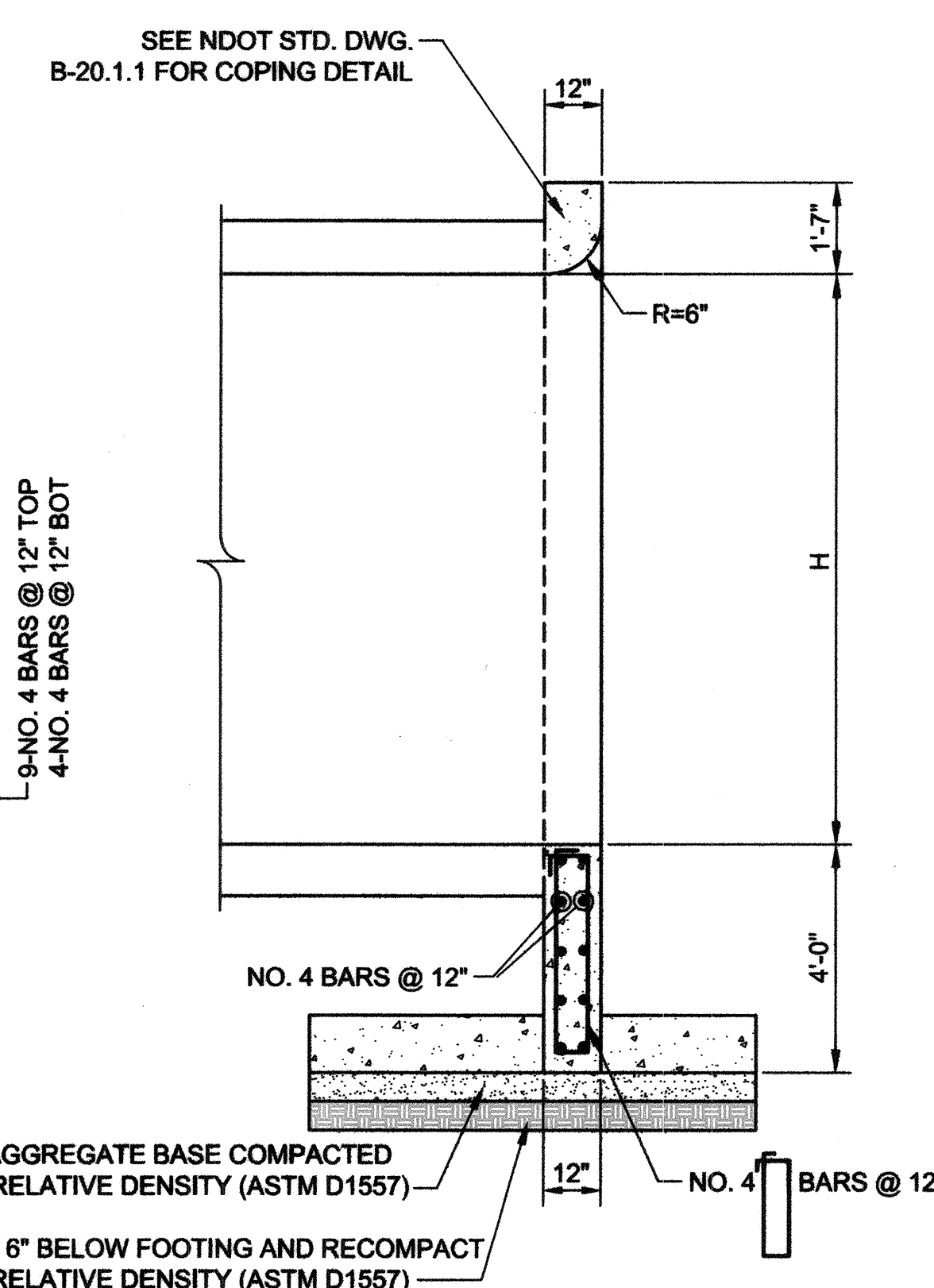
PHONE 702-388-6171 FAX 702-388-1107



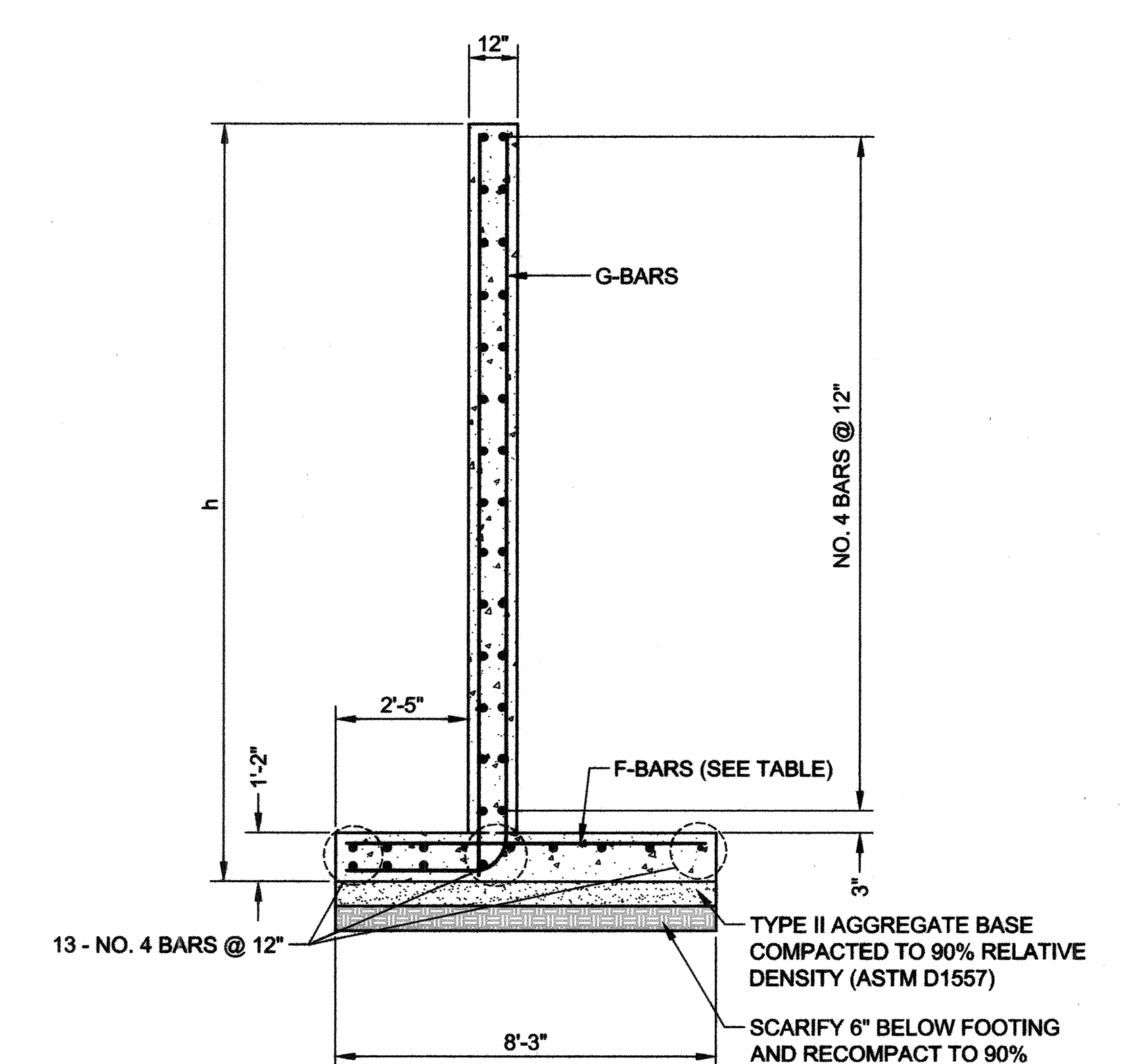
ELEVATION



PLAN



SECTION A



SECTION B

QUANTITIES FOR TYPE II HEADWALLS ①									
SPAN	HEIGHT	L1	L2	SINGLE BOX					
				0°SKEW		11°SKEW		22.5°SKEW	
				CONC.	REINF.	CONC.	REINF.	CONC.	REINF.
8	5	10'-6"	9'-9"	N/A	N/A	N/A	N/A	14.7	2240
10	5	10'-0"	9'-9"	N/A	N/A	14.4	2224	N/A	N/A
12	6	11'-3"	11'-3"	17.2	2640	N/A	N/A	N/A	N/A

① QUANTITIES SHOWN ARE FOR A PAIR OF HEADWALLS AT ONE INLET OR OUTLET.

NOTES

1. FOR GENERAL NOTES SEE NDOT STD. DWG. B-20.1.1.

TABLE					
H-HEIGHT (FEET)	G-BARS		F-BARS		SPACE (INCHES)
	SIZE NO.	SPACE (INCHES)	SIZE NO.	SPACE (INCHES)	
5	7	6	6	6	6
6	7	6	6	6	6

REVISIONS

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

DEPARTMENT OF PUBLIC WORKS

CAPITAL PROJECT MANAGEMENT

CITY ENGINEER: ALLEN PAVELKA, P.E.
DESIGNED BY: JEREMY LEVITT, P.E.
PROGRAM MANAGER: JEREMY LEVITT, P.E.
DRAWN BY: B. MAHAN
CHECKED BY: F. PAULLO
APPROVED BY: J. GRIEST

CITY OF LAS VEGAS, NEVADA

TYPE II RCB HEADWALL DETAILS

SHAUMBER ROAD REALIGNMENT

CENTENNIAL PKWY TO WASHBURN RD

PROFESSIONAL SEAL OF TIMOTHY D. VESOO, CIVIL ENGINEER, No. 15389, Exp. 6/30/18

SHEET: DT10

DATE: January 7, 2015

DRAWING NO: 107V6351

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811
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.

HANSEN NO. 45398

BRD NO. 15-45398