

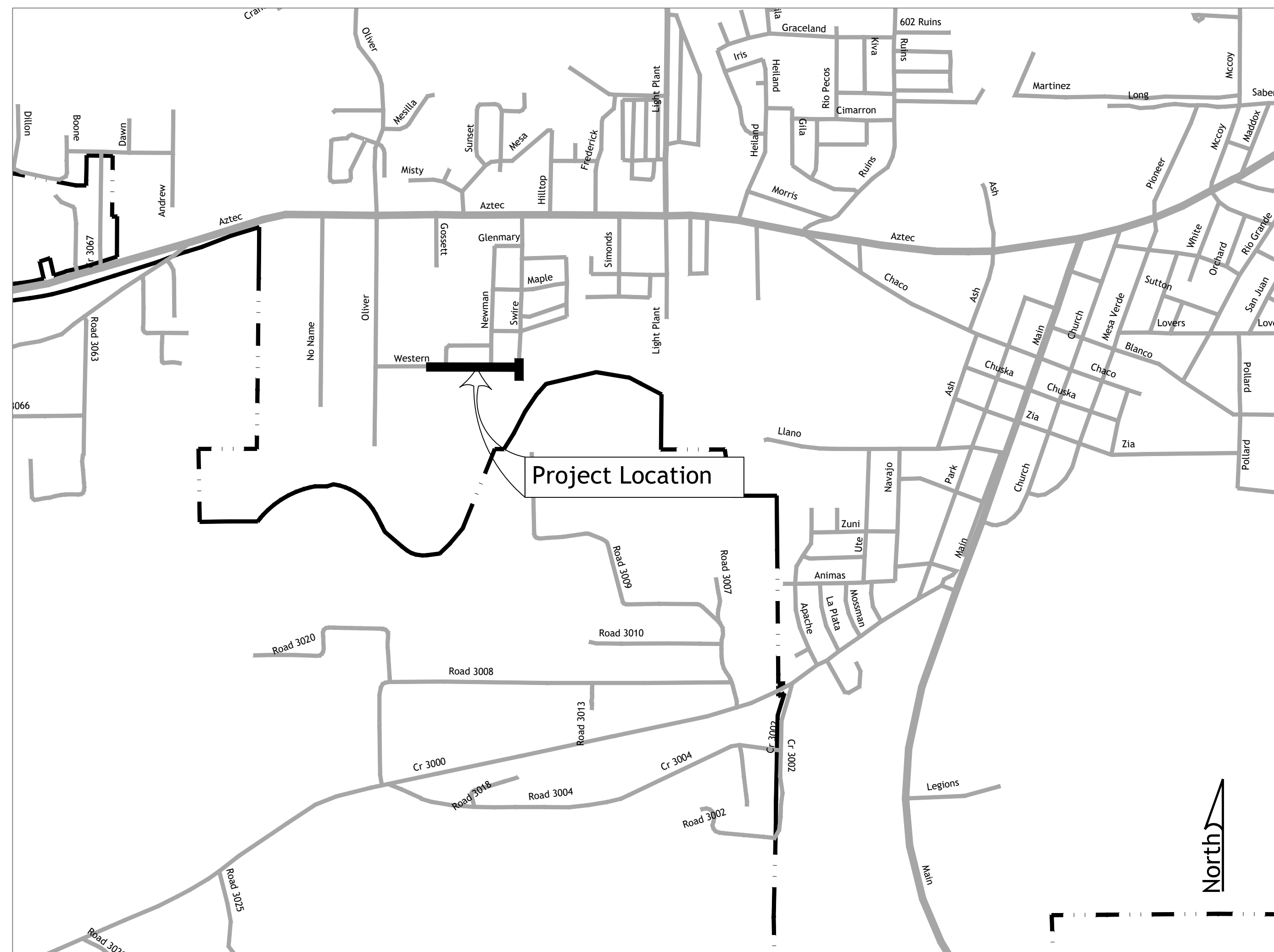
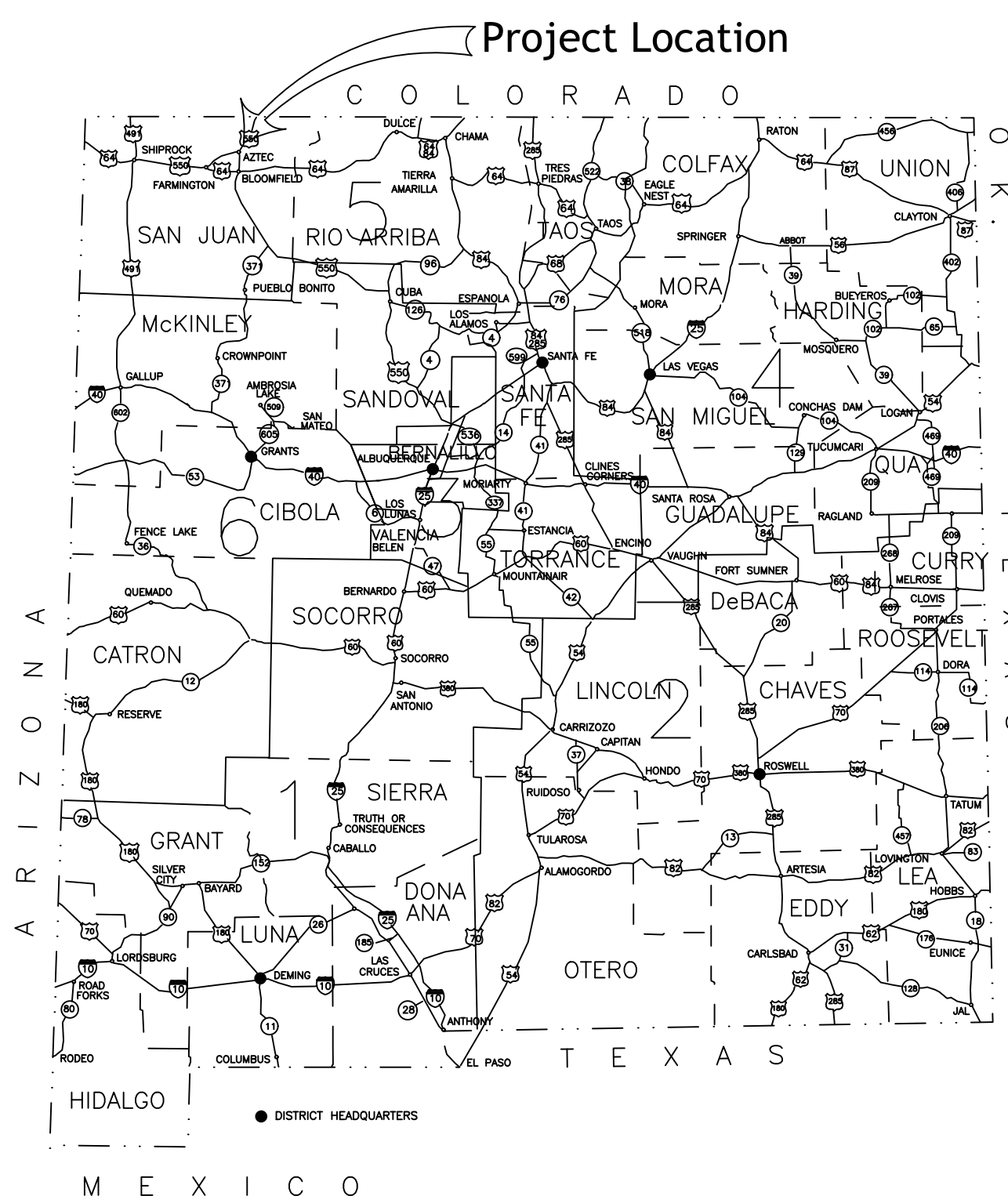
Western Drive Reconsturction

City of Aztec, New Mexico

San Juan County

NMDOT PN: SP-5-17(187)

NMDOT CN: L500226



Vicinity Map

Scale: 1"= 1000'



Sheet List Table	
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3-1	Western Drive Plan and Profile
3-2	Western Drive Plan and Profile
3-3	Intersection Grading Detail

Know what's below.
Call before you dig.

It's the Law!

New Mexico One Call, Inc.

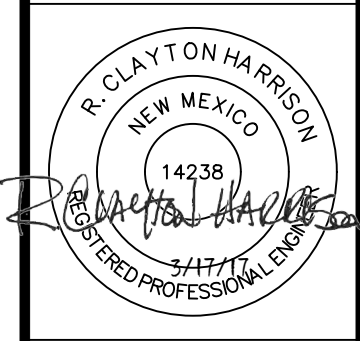
Professional Resources for Damage Prevention

- UTILITY OWNERS**
- CITY OF AZTEC DEPARTMENT OF PUBLIC WORKS (505) 334-7660
 - CITY OF AZTEC ELECTRIC DEVELOPMENT (505) 334-7660
 - QWEST (TELEPHONE) (505) 325-2311
 - COMCAST CABLE VICTOR APPLGATE 505-402-0055
 - PNM (GAS) 505-324-3783

Revision Log	
No.	Description
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Project: WESTERN DRIVE RECONSTRUCTION

Sheet Description: COVER SHEET



CHC Engineers, LLC
50 Valley Court
Durango, CO
970-387-8765

NMDOT CN: L500226
Project Date: 3/17/17
Proj: 16013

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GENERAL NOTES

- The "New Mexico Department of Transportation Standard Specifications for Highway and Bridge Construction, 2014 Edition", shall govern construction of this project unless otherwise noted on these plans or in the contract documents. In case of conflict between plans and specifications, the plans shall govern.
- A disposal site for all excess concrete, excavation material and other removal items shall be obtained by the contractor. All costs incurred in obtaining a disposal site and haul thereto shall be considered incidental to construction and no direct payment will be made therefore. Disposal site shall be environmentally acceptable and approved by the engineer.
- No additional payment will be made for any hauling of materials. The transportation of materials shall be considered incidental to the item to which the work pertains.
- Existing utilities are shown based on information at hand. The contractor shall verify utility locations and elevations to avoid potential conflicts.
- The contractor shall coordinate and cooperate with all utility companies and City of Aztec with regard to relocating, adjusting, replacing, and/or repairing utilities during construction.
- The contractor shall notify the city of Aztec, 911 Center and the City of Aztec fire department 48 hours before road construction activities begin.
- The contractor is responsible for maintaining the area and streets free and clear of any debris that is tracked from the site.
- All roads shall be serviceable and maintained for fire protection and emergency vehicles during construction unless otherwise approved by the City Engineer.
- The contractor shall provide reasonable access to property owners affected by the construction. All affected residents shall be informed of any driveway or road closures at least 48 hours prior to closure. Access to residences shall not be denied for more than 48 hours without the approval of the City Engineer.
- Overnight parking of the contractor's equipment or material stockpiles shall not obstruct driveway openings or designated traffic lanes.
- The contractor shall be restricted to a 35-ton (maximum) non-vibratory roller for compaction in areas where the use of heavier equipment could damage underground utilities or adjacent structures.
- The contractor shall replace all destroyed or damaged facilities with equal or superior improvements as provided by the City Engineer.
- The contractor shall adjust all utility structures affected by the roadway reconstruction to the finished grade.
- The contractor shall protect in-place all existing signs. The contractor shall replace all damaged signs at no additional costs.
- The contractor shall be responsible for reporting and clean up of spills associated with project construction and shall report and respond to spills of hazardous material such as gasoline, diesel, motor oils, solvents, sewer chemicals, toxic and corrosive substances, and other materials which may be a threat to public health or the environment. The contractor shall be responsible for reporting past spills encountered during construction and of current spills not associated with construction. Reports shall be made immediately to the NM Environment Department at (505) 827-9329, (866) 428-6535.
- Contractor shall keep work site in an orderly condition. During construction, at completion of daily work, contractor shall remove all debris and leave work site in a condition acceptable to the City Engineer.
- The contractor is responsible for reporting any discrepancies discovered in the plans and/or specifications and of all conflicts during construction immediately to the City Engineer both verbally and in writing.
- The contractor shall be responsible for all removals required to complete this project.
- Pavement markings are not required for this project.
- A maximum of 2% cross slope is allowed on all sidewalks. Removal and replacement of sidewalks exceeding the 2% maximum is mandatory.
- All ADA guidelines and mandates will be strictly inspected.
- Traffic control shall comply with the Manual on Uniform Traffic Control Devices (MUTCD). Traffic control plans shall be submitted to the City Engineer for approval one week prior to installation.
- This project does not require an SWPPP.
- All requirements outlined in the Federal Environmental Protection Agency (EPA) National Pollutant Discharge Elimination System (NPDES) and the New Mexico Clean Water Act shall be strictly adhered to during the course of constructing this project. Exposed areas of disturbance shall be kept to a minimum to perform project construction.

LEGEND

- SIGN ————
- GAS METER [Symbol]
- LITE POLE * * *
- WATER VALVE [Symbol]
- WATER METER [Symbol]
- FIRE HYDRANT [Symbol]
- TELEPHONE PEDESTAL [Symbol]
- ELECTRIC BOX [Symbol]
- SANITARY SEWER MANHOLE [Symbol]
- SEWER CLEANOUT [Symbol]
- EXISTING CURB - - - - -
- EXISTING SIDEWALK - - - - -
- EXISTING FENCE - - - - -
- CENTERLINE OF ROADWAY ————
- PROPOSED CURB ————
- PROPOSED SIDEWALK AND TBC ————

CONSTRUCTION TESTING

- The project will have verification, and density tests completed by a geotechnical engineering company to verify compaction.
- The City will use GEOMAT to provide Quality Assurance (QA) testing to ensure the work has been accomplished in accordance with the specification. The contractor shall coordinate with GEOMAT for required QA testing to comply with NMDOT specifications.
- Contractor shall provide quality control testing as necessary to provide acceptable work quality that conforms to the governing specifications. This work shall be considered incidental to the work being tested.
- Necessary retesting by GEOMAT will be charged back to the contractor. GEOMAT contact phone ~ (505)327-7928.
- Testing shall be in conformance with the 2014 NMDOT LGRF Handbook minimum testing and inspection requirements.
- Road base material shall be compacted to 96% of maximum density per NMDOT specifications section 203.3.8 "moisture and density control".
- SP-IV asphalt shall be compacted to a mean density of 93% of the theoretical maximum density, refer to NMDOT specification division 423.
- Asphalt mix design shall be per NMDOT SP-IV design. Asphalt mix shall be tested by GEOMAT.
- Gradation of proposed imported road base material shall be submitted to GEOMAT and to the Aztec public works director for approval prior to import.
- No material pits have been designated for this project. The contractor may obtain specification borrow and surfacing material (SP-IV) from any acceptable source. All material shall be governed by appropriate sections of the NMDOT standard.

BID ITEMS

ITEM	GROUP	DESCRIPTION	UNIT	QUANTITY
1	CC	Sawcut and Remove Curb and Gutter	LF	1935
2	CC	Sawcut and Remove Sidewalk and Driveways	SY	891
3	CC	4" Sidewalk	SY	940
4	CC	24" Curb & Gutter	LF	2093
5	CC	Double Curb Drop Inlet	EA	1
6	CC	15" Corrugated HDPE Storm Line	LF	48
7	CC	15" End Sections	EA	2
8	CC	Remove and Replace Mail Boxes	EA	16
9	CC	Storm Pipe Cap	LS	1
10	CC	Flush Turn Down Sidewalk	SY	72
11	CC	6" Concrete Driveway	SY	95
12	CC	Construction Staking by Contractor	LS	1
13	CC	Traffic Control	LS	1
14	PC	NMDOT Base Course	TON	80
15	PC	Base Course Grading and Compaction	SY	3305
16	PC	HMA SPIV 3"	SY	3305
17	PC	Adjust Manhole to Grade	EA	12
18	PC	Adjust Water Valve to Grade	EA	5
19	PC	Construction Staking by Contractor	LS	1
20	PC	Traffic Control	LS	1

CC = CONCRETE CONTRACTOR
PC = PAVEMENT CONTRACTOR

Contractors can bid individually all concrete work or all pavement work or both.

REVEGETATION NOTES

- If the contractor damages areas outside of the construction limits, revegetation is required in those areas.
- Seedbed preparation shall be conducted by scarifying soil in order to remove large rocks or debris and break down clumps of soil to obtain consistent soil texture. Noxious and competitive species shall be removed from seedbed.
 - All revegetated areas shall be mulched after seeding by applying weed free straw at a rate of one ton per acre. Hydro-mulching is also an acceptable application method.
 - The seed mix shall be high plains/foothills erosion control grass mixture or BLM seed mix #2 at a rate to achieve 50 seeds per square foot for drilled seed. Application rates shall be doubled if broadcast method is used.
 - Coordinate seeding dates as follows: a. Period 1 = October 15th through April 15th b. Period 2 = July 1st through August 15th
 - Revegetation shall be considered incidental to the project and no measurement or payment shall be made therefore.

SPECIAL NOTES

The work on these plans will be bid separately and generally grouped by Concrete, and Pavement. The Concrete Contractor and the Pavement Contractor will cooperate fully with each other and with City of Aztec Departments to ensure project scheduling and critical timing of installations.

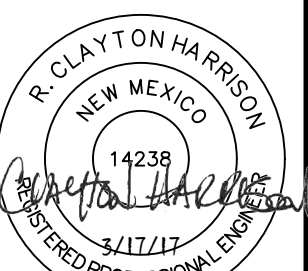
Reference the Bid Item List and plan notes for work separation. If a Bid Item requires earthwork, tie-to-existing, road base, compaction or other items to complete, that Bid Item will include that work as incidental and no other payment will be made. No payment will be made for mobilization.

Sequence:

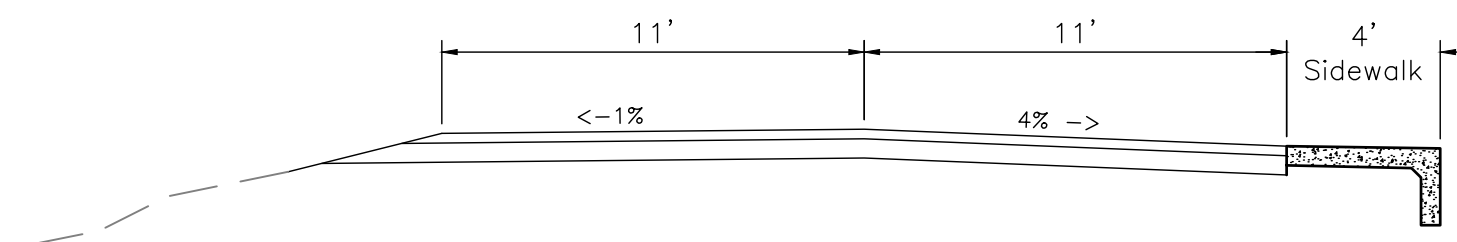
- UTILITY (by others):** New Utility Lines including Sewer, Non-potable Water, Water, and Electrical will be installed in the roadway. This work will remove the bulk of the existing pavement. After installation of Utilities, the previously hired Utility Contractor will compact the subgrade and install 6" of Base Course to the grades on the plans shown. Some work including underground electric may take place just prior to concrete construction.
- REMOVALS:** The Pavement Contractor will remove any additional pavement as necessary to the lines on the plans. Note this work is considered incidental to the paving operation and no additional payment will be made.
- CONCRETE (Group CC Bid Items):** The Concrete Contractor shall:
 - Coordinate with residents closely to ensure continued amiable cooperation.
 - Remove existing curb and gutter, sidewalk and any other pavement or obstructions necessary to complete the work. Sawcut as necessary.
 - Grade and compact the subgrade for curb and gutter and sidewalk.
 - Construct curb and gutter and sidewalk. Note that the grades on this project are important to achieve proper drainage of this project. The City and the Project Engineer must be notified of any issues or difficulties in achieving the lines, elevations or grades.
 - Construct other Bid Items to be constructed by the Concrete Contractor.
 - Backfill behind sidewalk, in front of curb and around constructed items to the lines and grades shown on the plans.
- PAVEMENT (Group PC Bid Items):** The Pavement Contractor shall:
 - Coordinate with residents closely to ensure continued amiable cooperation.
 - Grade and compact the existing base course and any necessary additional base course.
 - Provide any additional NMDOT road base course material necessary to achieve the grades on the plans.
 - Any excess base course material shall be removed by the contractor.
 - Prepare manholes, water valves and other obstructions for paving.
 - Place and compact new asphalt paving. *Contractor may close Western Drive completely for one day to perform paving operations.*
 - Adjust manholes, water valves and other obstructions to finished grade and pour concrete collars for such.

COORDINATION: The contractor will notify the Aztec Public Works Director at least 48 hours prior to any construction activities.

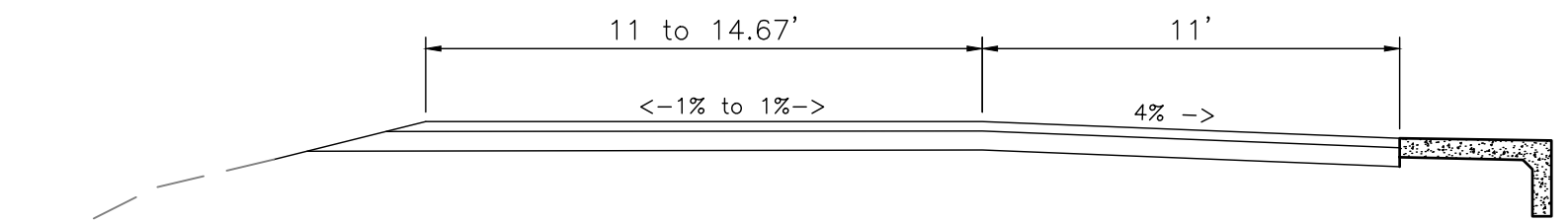
Revision Log	1	2	3	4	5	6
Project:	WESTERN DRIVE RECONSTRUCTION					
Sheet Description:	GENERAL NOTES					
City of Aztec						
Plot Date:	03/17/2017 - 11:47am					



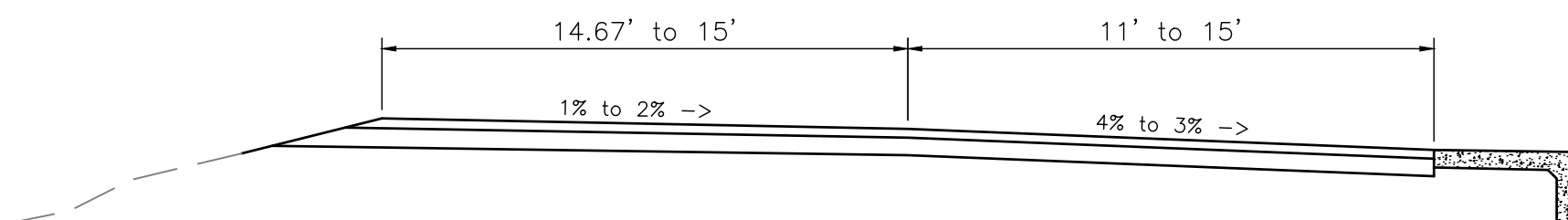
NMDOT CN: L500226
Project Date: 3/17/17
Proj: 16013



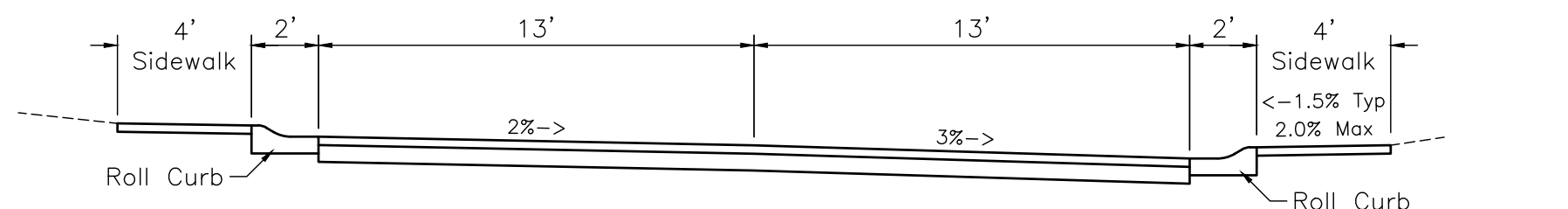
Typical Section A
Sta 0+24.75 to Sta 0+75.00
Existing Pavement
Scale: NTS



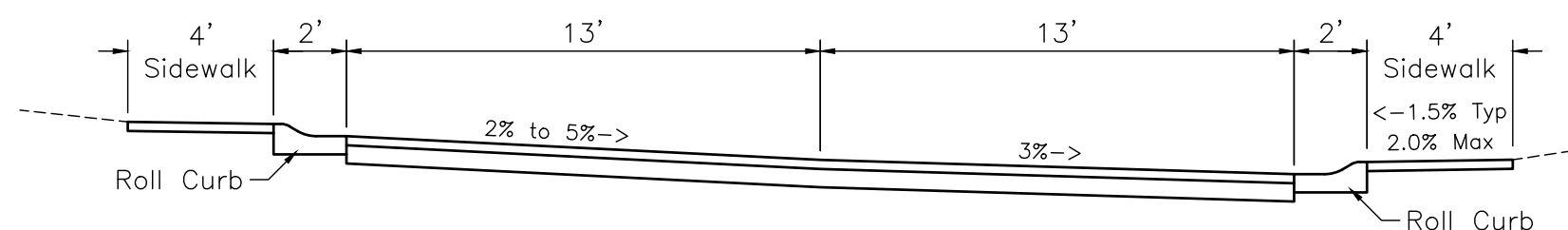
Typical Section B
Sta 0+75.00 to Sta 1+55.00
Existing Pavement
Scale: NTS



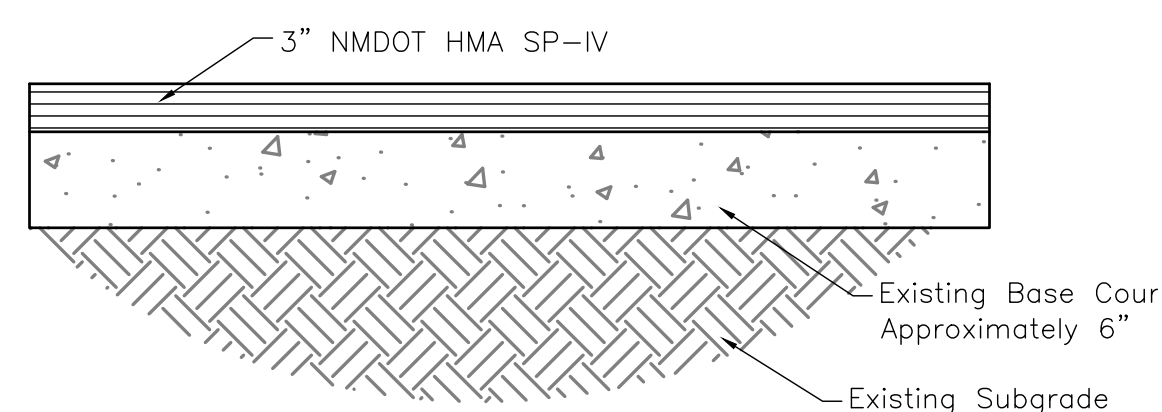
Typical Section C
Sta 1+55.00 to Sta 1+86.01
Pavement by Others
Sta 1+55.00 to Sta 1+79.12
Begin Pavement at Sta 1+79.12
Scale: NTS



Typical Section D
Sta 1+86.01 to Sta 3+07.92
Sta 0+86.01 to Sta 2+09.07
Scale: NTS



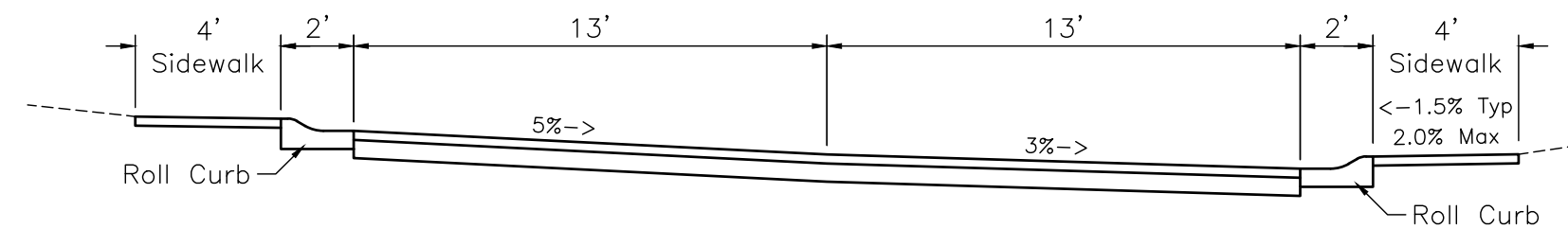
Typical Section E
Sta 3+07.92 to Sta 3+79.93
Scale: NTS



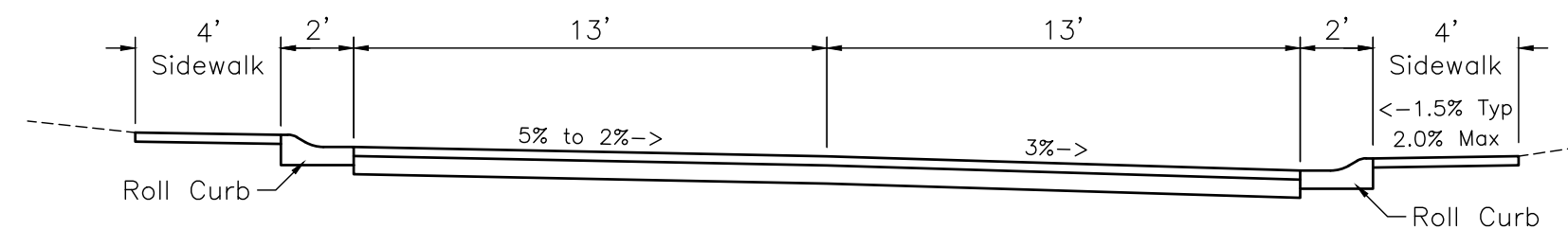
Pavement Section
Scale: NTS

Note:

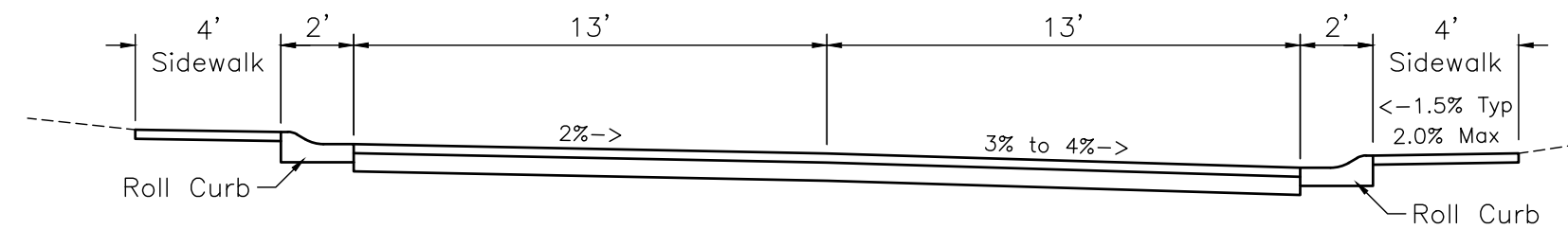
1. Pavement Contractor shall remove any contaminated existing Base Course and Replace at the direction of the City Engineer.
2. Pavement Contractor shall grade existing Base Course to grades shown on the plans and compact to 96% AASHTO T 180 and per NMDOT 303.
3. Pavement Contractor shall saw cut, remove, tack and match existing pavement as necessary. The bulk of the pavement for the project has been removed, side streets may require some removal to the lines shown on the plans.



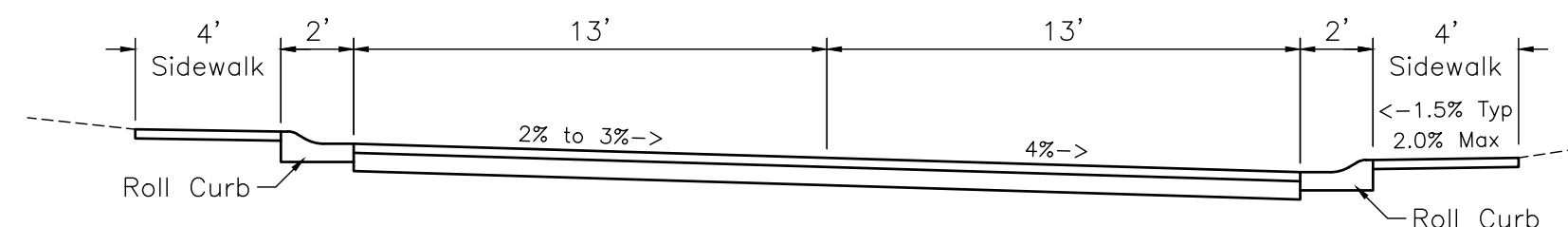
Typical Section F
Sta 3+79.93 to Sta 8+21.33
Scale: NTS



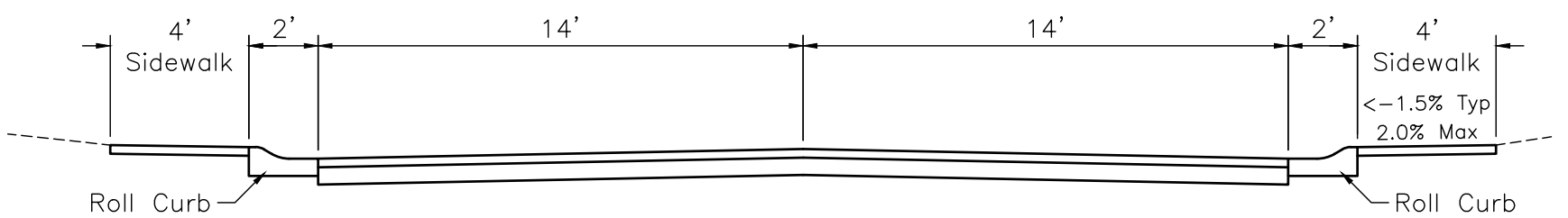
Typical Section G
Sta 8+21.33 to Sta 8+93.34
Scale: NTS



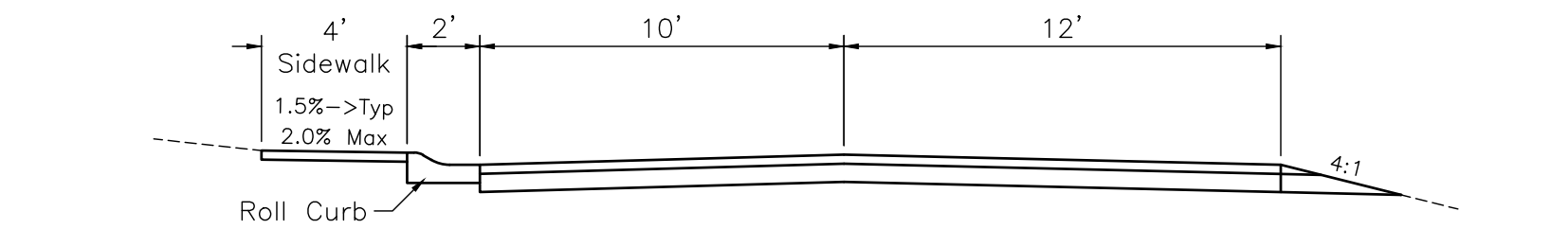
Typical Section H
Sta 8+93.34 to Sta 9+54.47
Scale: NTS



Typical Section I
Sta 9+54.47 to Sta 11+50.25
Scale: NTS



Typical Section J
Western Circle
Newman Avenue
Scale: NTS



Typical Section K
Swire Avenue
0+18.96 to 0+79.74 6" Base Course Surface
0+79.77 to 1+75.97 Per Typical Pavement Section
Scale: NTS

Revision Log

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Plot Date: 03/17/2017 11:47am

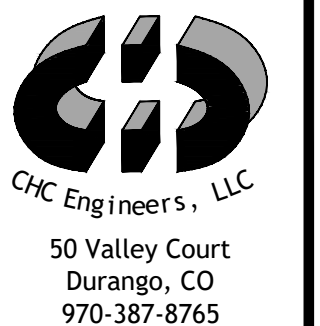
City of Aztec

Project:

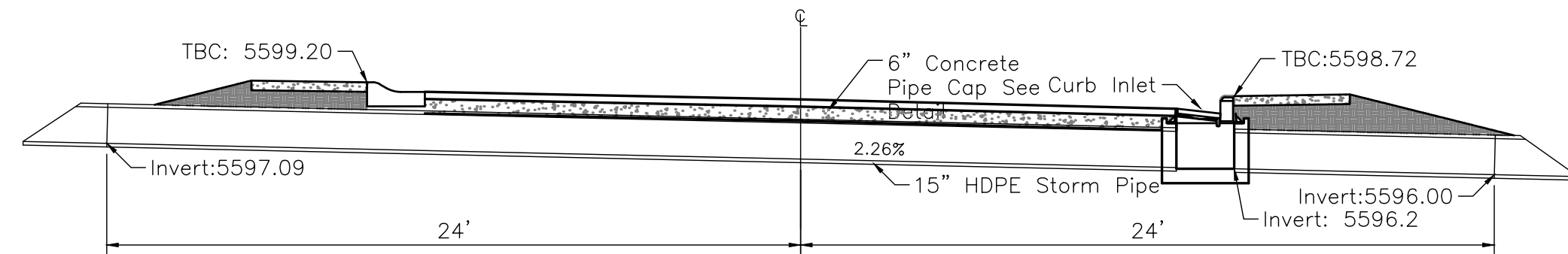
WESTERN DRIVE RECONSTRUCTION

Sheet Description:

TYPICAL SECTION

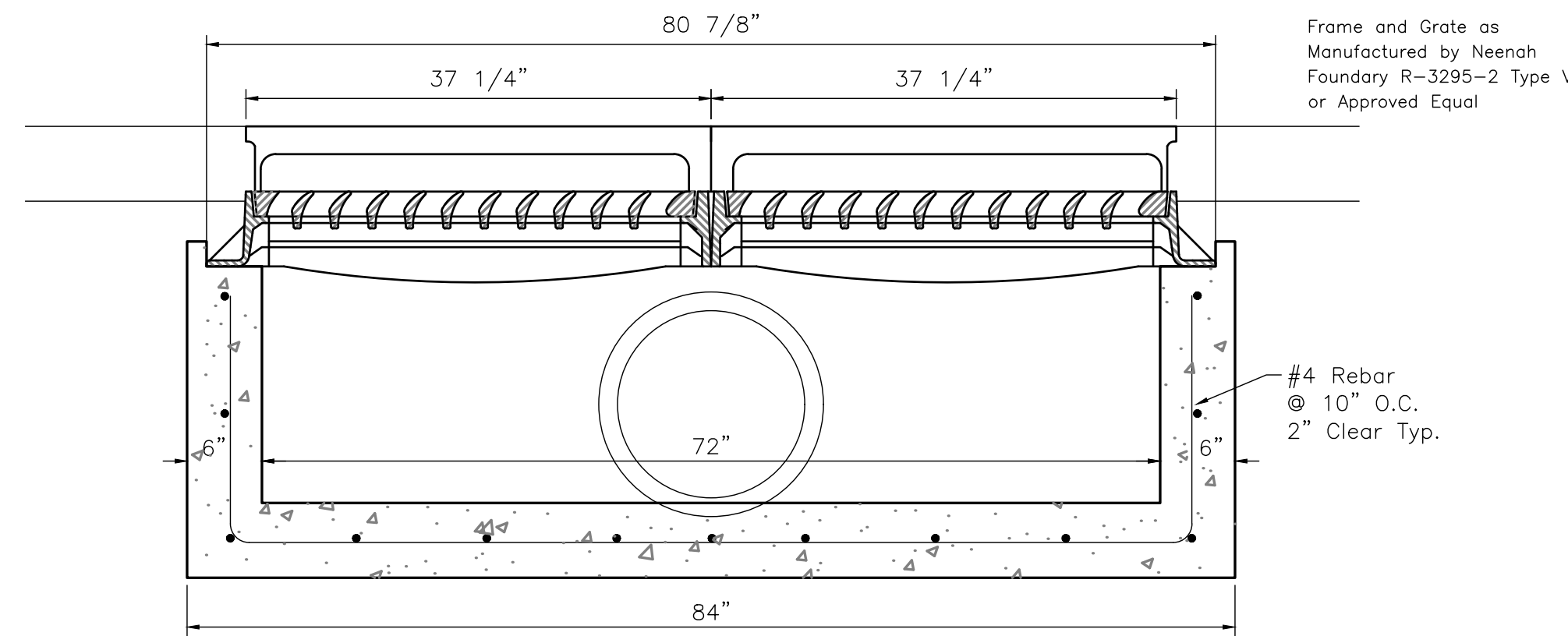


NMDOT CN: L500226
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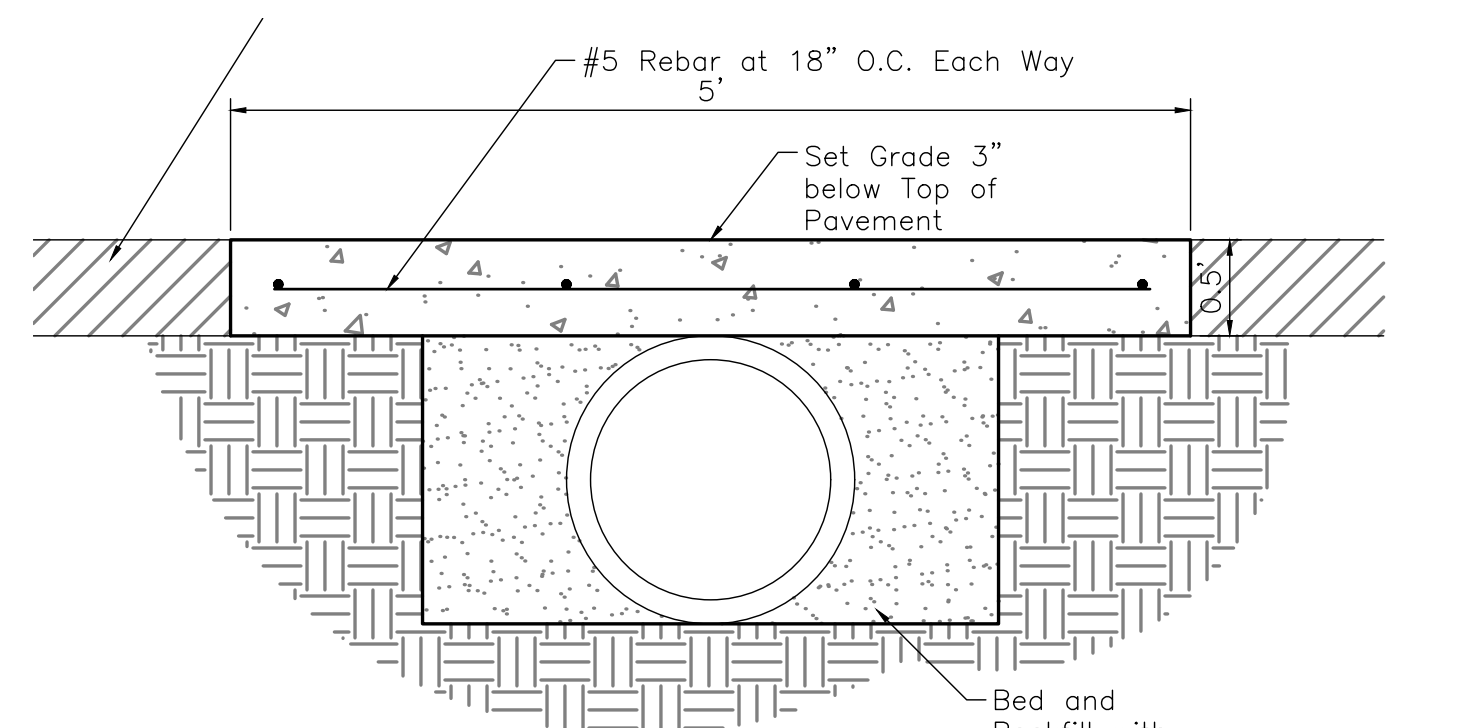
Culvert and Curb Inlet Section
Scale: NTS

(Curb Inlet and Storm Pipe by Concrete Contractor)



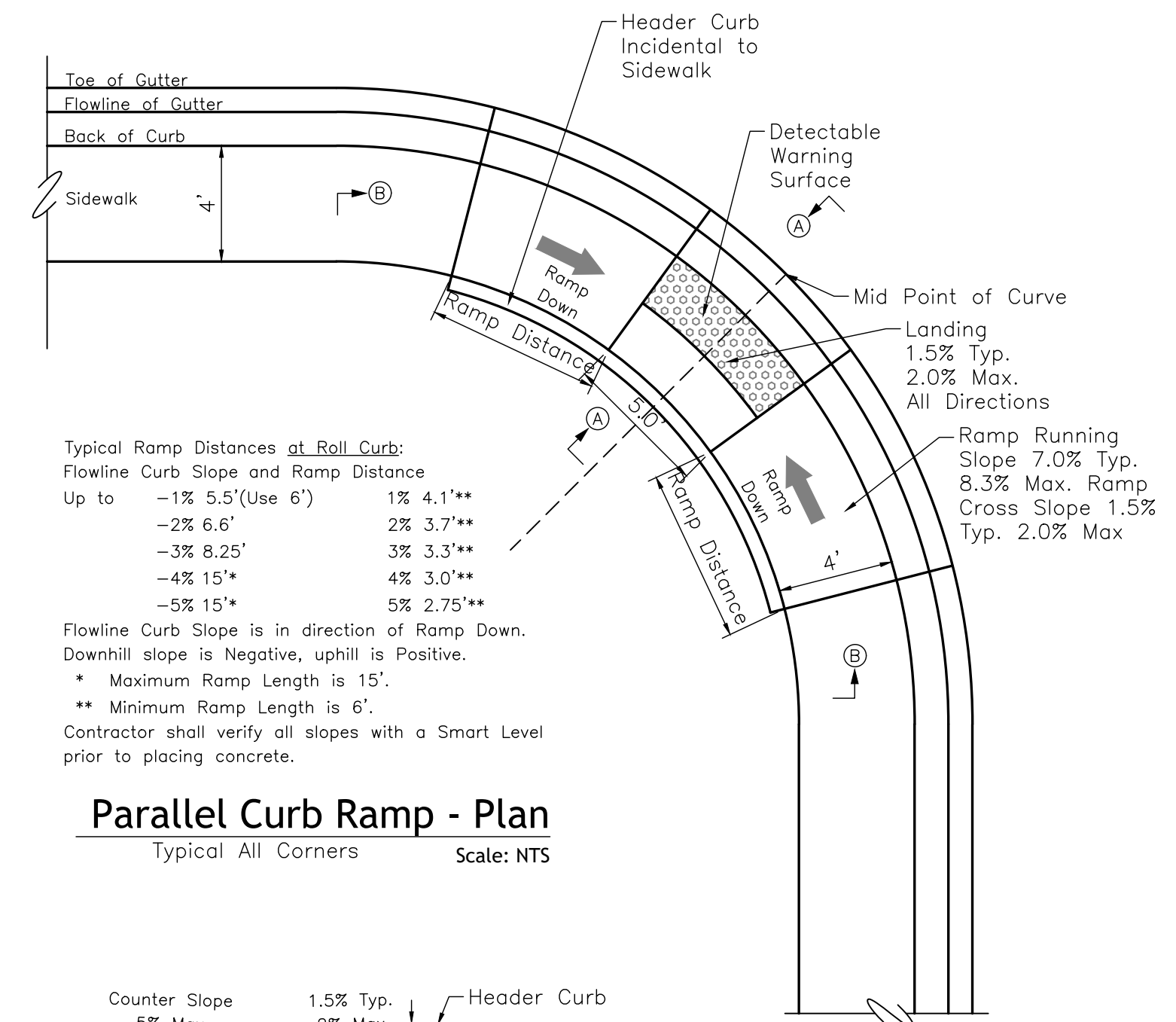
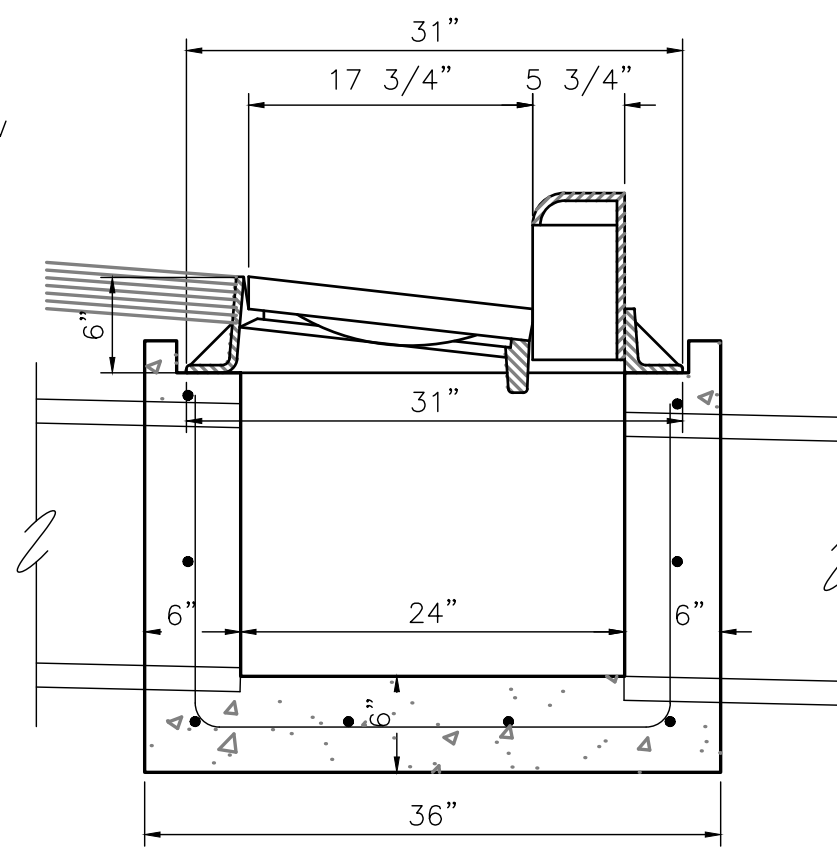
Double Curb Inlet
Scale: NTS

(By Concrete Contractor)



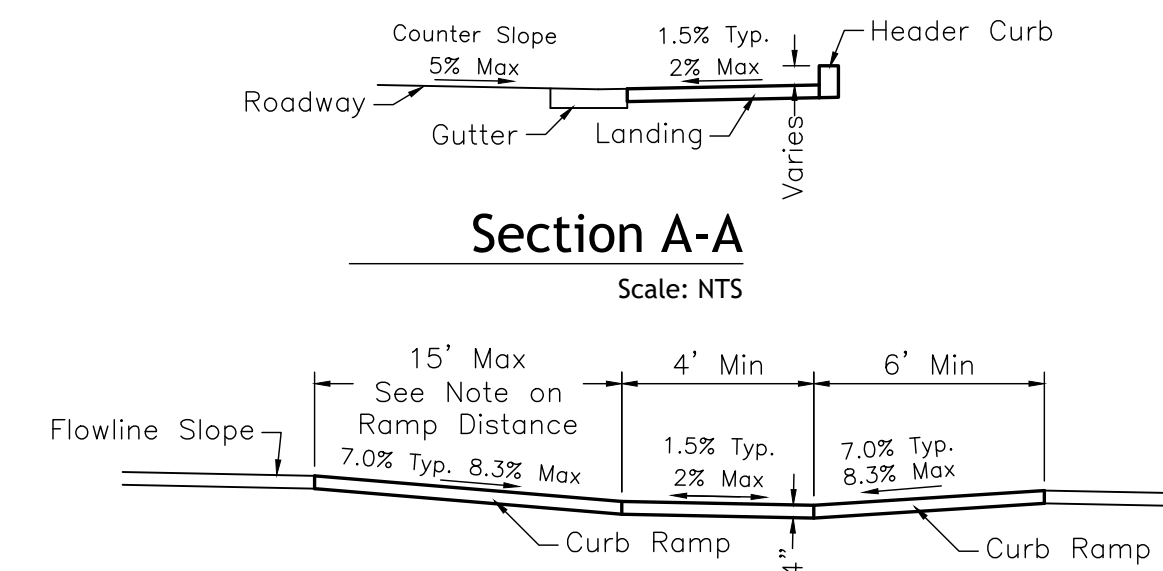
Storm Pipe Cap
Scale: NTS

(Concrete Contractor)
(Base Course Provided by City)



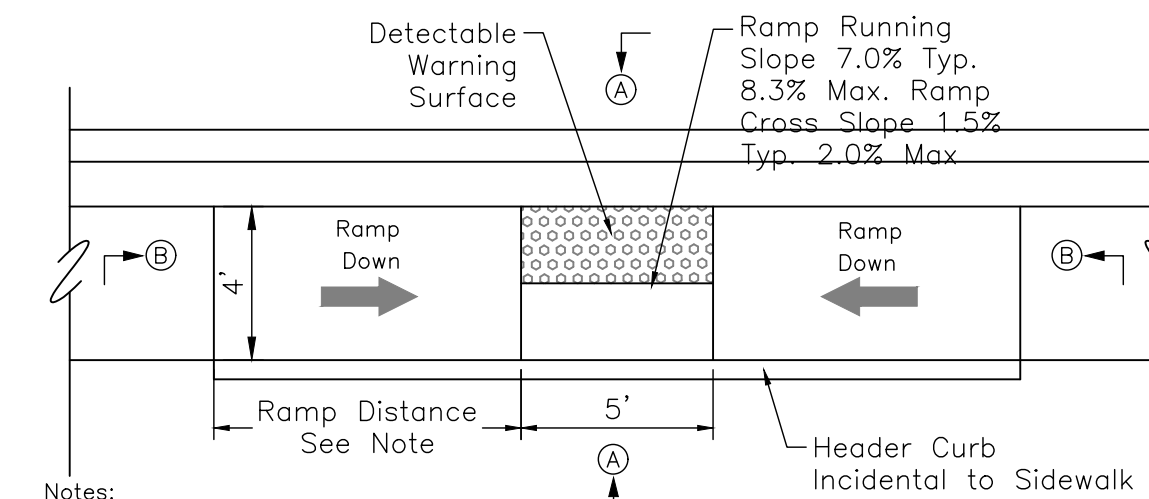
Parallel Curb Ramp - Plan
Typical All Corners Scale: NTS

Typical Ramp Distances at Roll Curb:
Flowline Curb Slope and Ramp Distance
Up to -1% 5.5' (Use 6') 1% 4.1'**
-2% 6.6' 2% 3.7'**
-3% 8.25' 3% 3.3'**
-4% 15' 4% 3.0'**
-5% 15' 5% 2.75'**
Flowline Curb Slope is in direction of Ramp Down.
Downhill slope is Negative, uphill is Positive.
* Maximum Ramp Length is 15'.
** Minimum Ramp Length is 6'.
Contractor shall verify all slopes with a Smart Level prior to placing concrete.



Section A-A
Scale: NTS

Section B-B
Scale: NTS



Notes:
Curb Ramps shall conform to NMDOT
IDD-2013-03 (ADA Policy) specifying
Section R300 of The Public Right of Way
Accessibility Guidelines (PROWAG) and
NMDOT IDD-2015-01 (ADA Standard
Drawings).

Mid Block Parallel Ramp - Plan
Scale: NTS

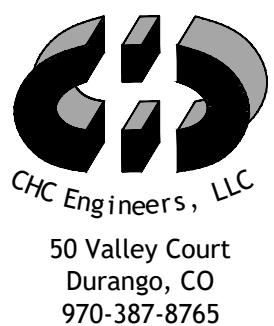
Sta 3+15.54, 15'R
Sta 8+78.50, 15'R

Revision Log

City of Aztec

Project: WESTERN DRIVE RECONSTRUCTION

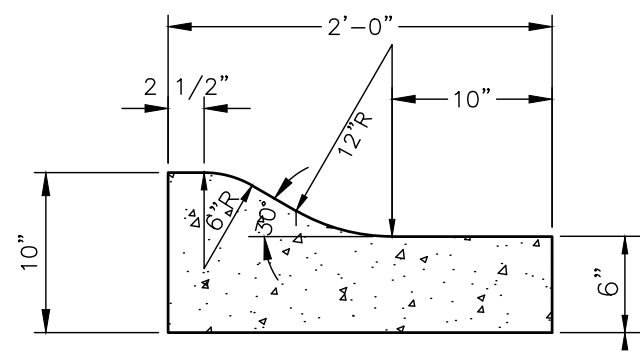
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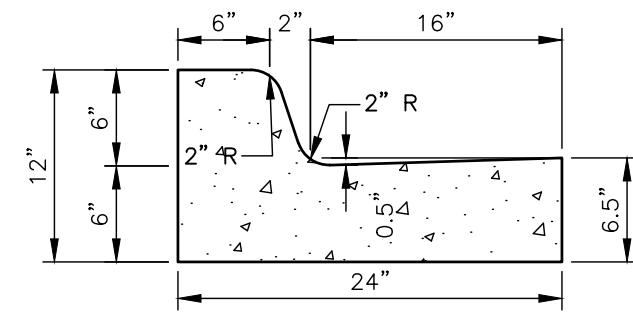
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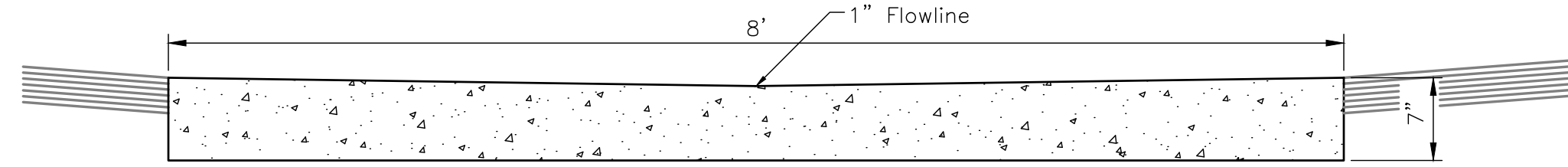


ROLL CURB & GUTTER
NOT TO SCALE



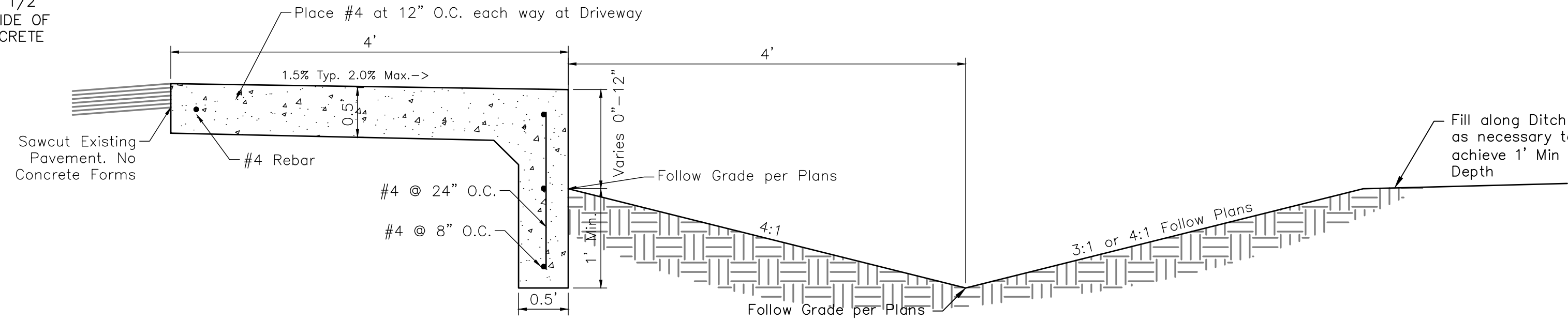
STANDARD CURB & GUTTER
NOT TO SCALE

- PAYMENT FOR SUBGRADE PREPARATION UNDER CURB & GUTTER SHALL BE INCLUDED WITH CURB & GUTTER BID ITEMS.
- CONCRETE SHALL BE 3500 PSI 28 DAY STRENGTH.
- FOR ALL CURBING AND OR GUTTERS PROVIDE JOINTS AT 10' O.C. ALSO PROVIDE 1/2" PREFORMED EXPANSION JOINTS AT 30' O.C. AT CURB RETURNS AND AT EACH SIDE OF DRIVEWAY. EXPANSION JOINT MATERIALS MUST EXTEND FULL THICKNESS OF CONCRETE SECTION.



CONCRETE VALLEY GUTTER
NOT TO SCALE

(Work to be completed by City of Aztec) - after curb and gutter is installed and before paving.

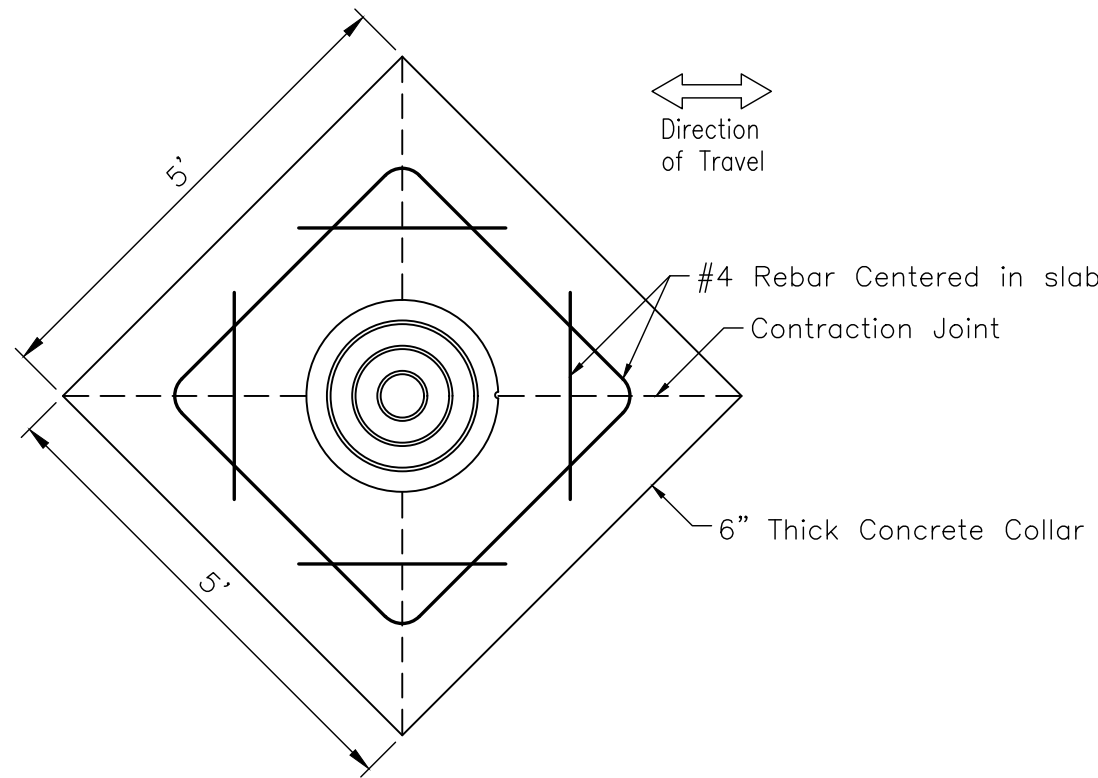


FLUSH TURN DOWN SIDEWALK
NOT TO SCALE

(Work to be completed by Concrete Contractor)

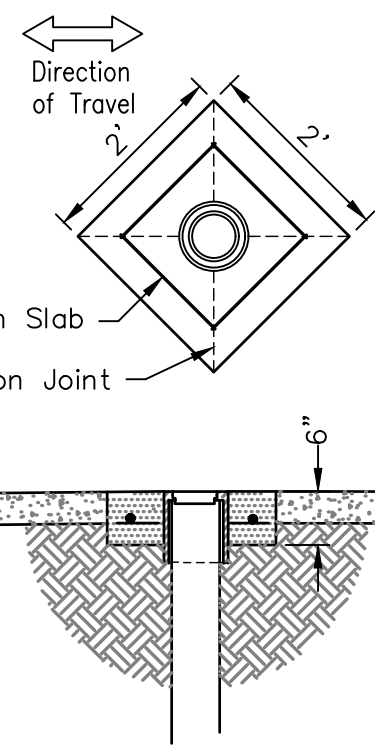
DITCH SECTION
NOT TO SCALE

(Work to be completed by City or Aztec)

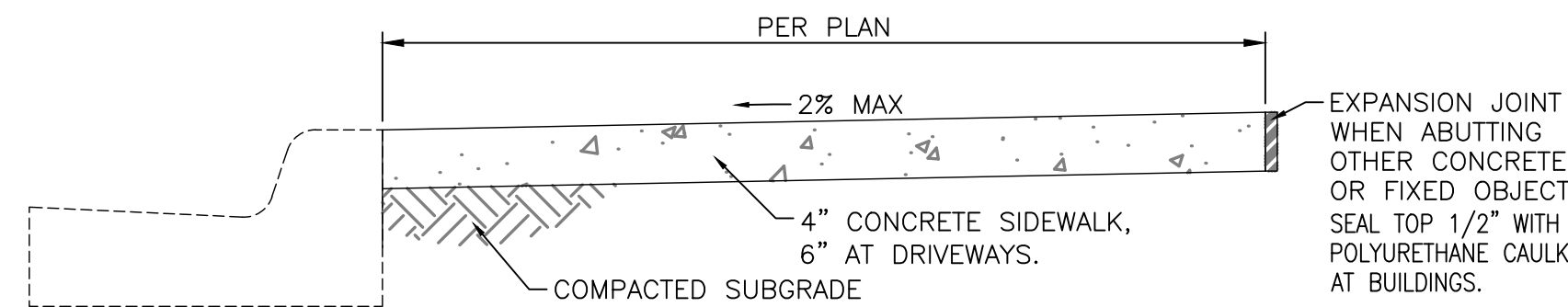


MANHOLE RING ADJUSTMENT
NOT TO SCALE

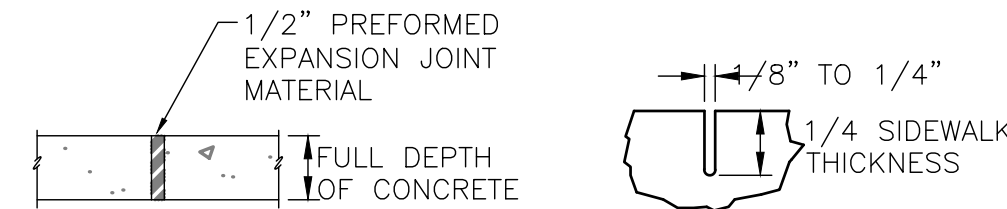
(Concrete Collars to be completed by Pavement Contractor)



WATER VALVE ADJUSTMENT
NOT TO SCALE

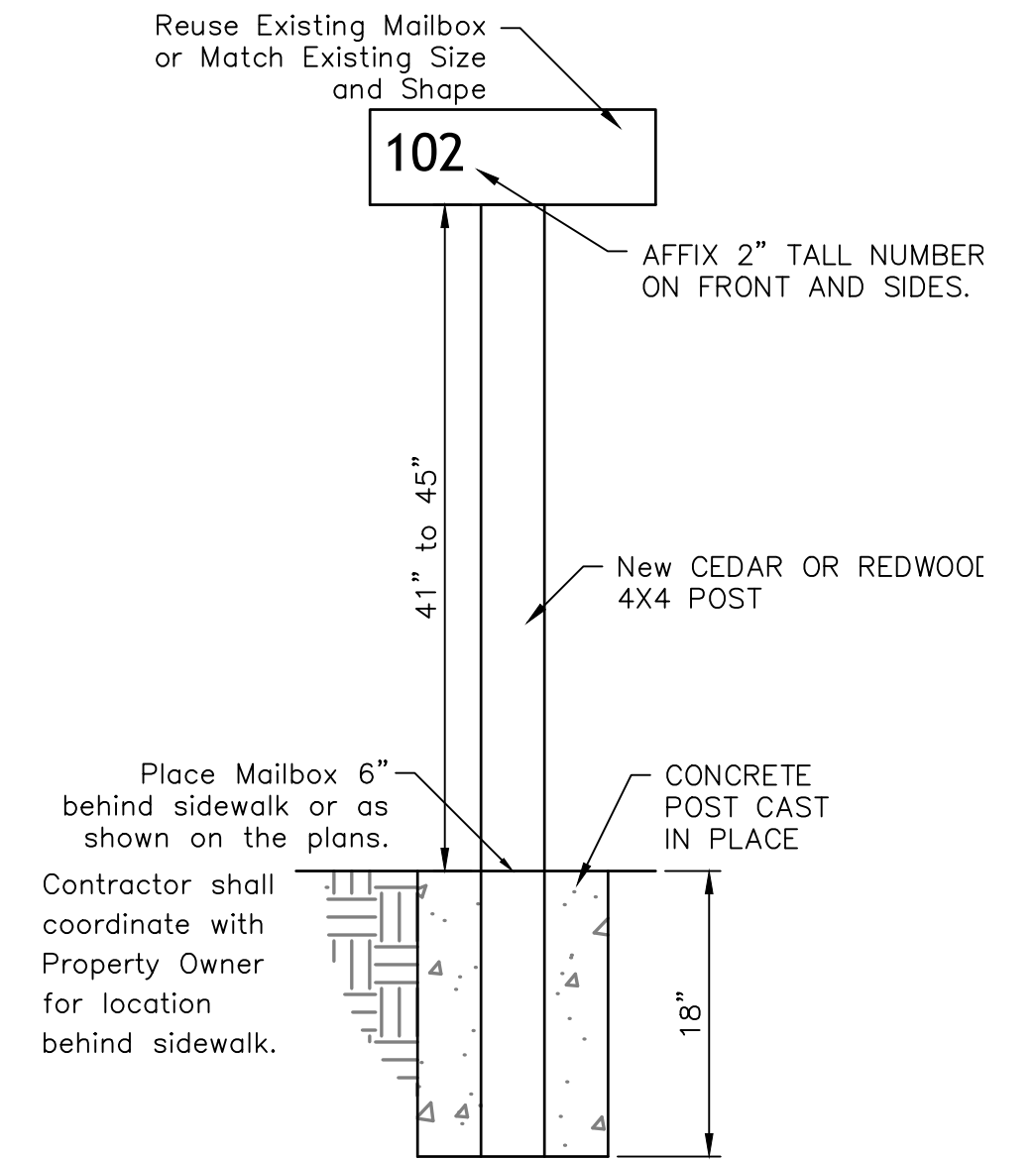


ATTACHED SIDEWALK



NOTE:

- ALL SIDEWALKS TO BE 4" THICK, EXCEPT AT DRIVEWAYS, SIDEWALK SHALL BE 6" THICK.
- ON STRAIGHT RUN OF STANDARD SIDEWALK, 1/4" EXPANSION JOINTS SHALL BE INSTALLED 80' ON-CENTER AND AT CHANGES IN DIRECTION AND AT BEGINNING AND ENDING OF CURVES.
- CONTRACTION JOINTS SHALL BE INSTALLED AT INTERVALS NOT TO EXCEED SIDEWALK WIDTH AND NO MORE THAN 10'.
- THE TYPICAL SECTION OF THE STANDARD CURB SHALL BE MODIFIED AT TIE-IN POINTS IN ORDER TO PRODUCE A SUITABLE TRANSITION TO THE EXISTING CURB SECTION. VARIABLE HEIGHT CURB (OTHER THAN 6" MEASURED ALONG THE FACE OF THE CURB) SHALL BE CONSTRUCTED TO MATCH AN EXISTING SIDEWALK OR AS DIRECTED BY THE ENGINEER.
- CROSS SLOPE OF SIDEWALKS SHALL NOT EXCEED 2%.
- EXISTING PAVEMENT BETWEEN 0+24.75 AND 1+55.00 SHALL BE CUT AND USED TO FORM SIDEWALK.



MAIL BOX INSTALLATION
NOT TO SCALE

(By Concrete Contractor)

Revision Log

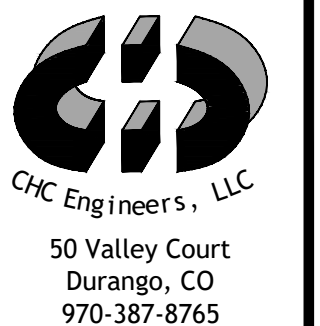
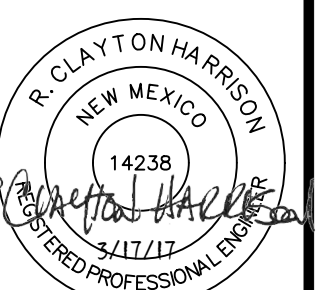
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Plot Date: 03/17/2017 - 11:47am

City of Aztec

Project: WESTERN DRIVE RECONSTRUCTION

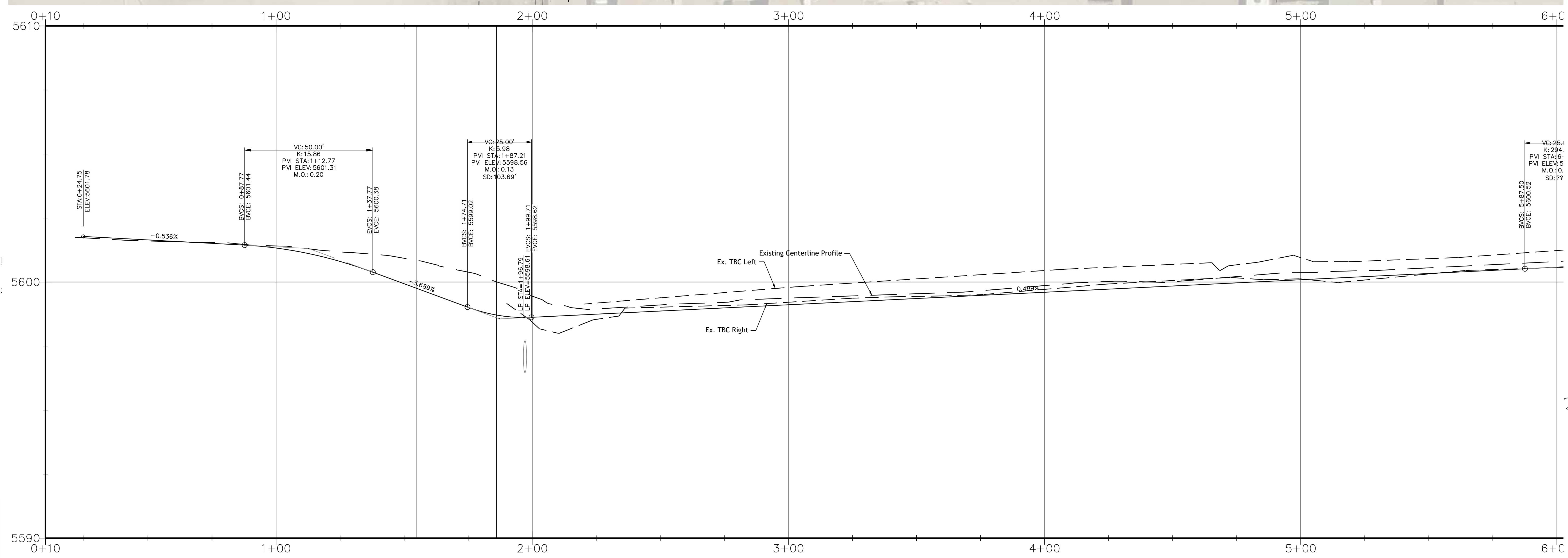
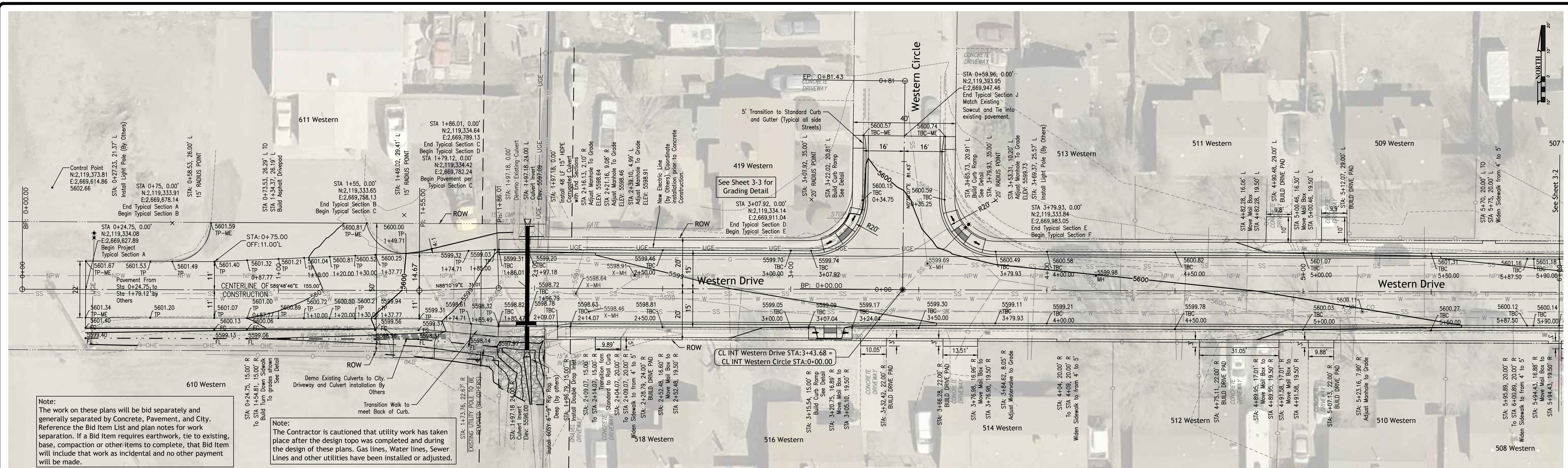
Sheet Description: CONSTRUCTION DETAILS



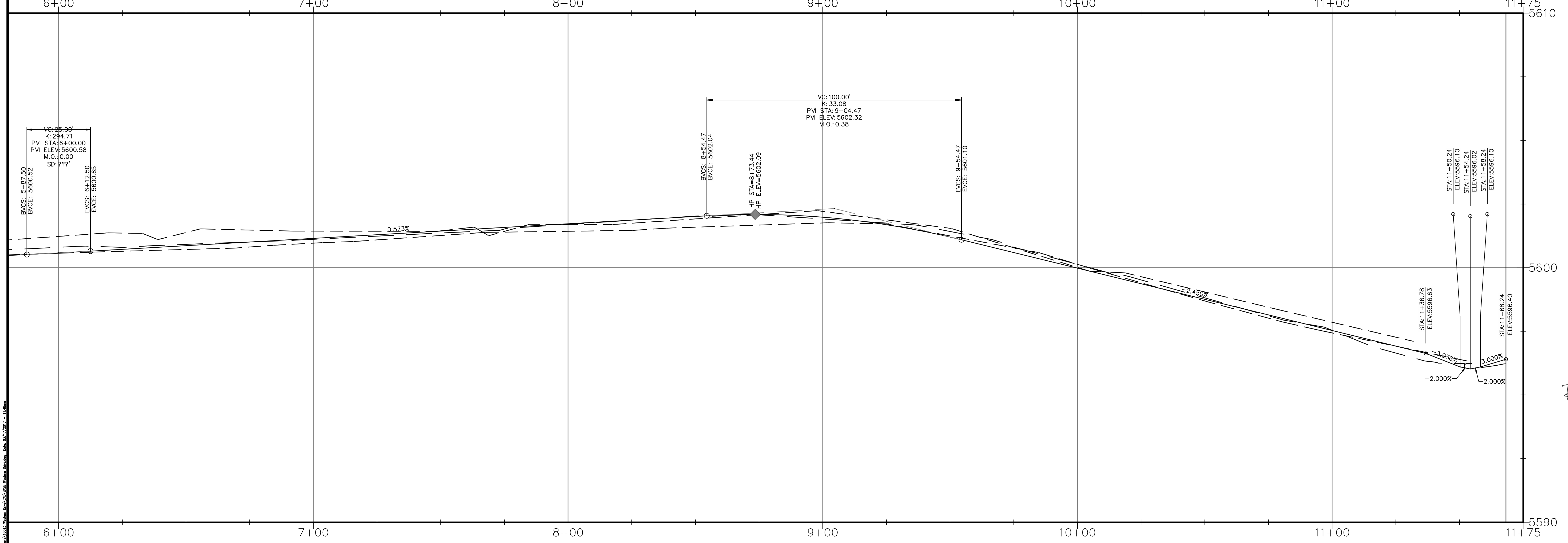
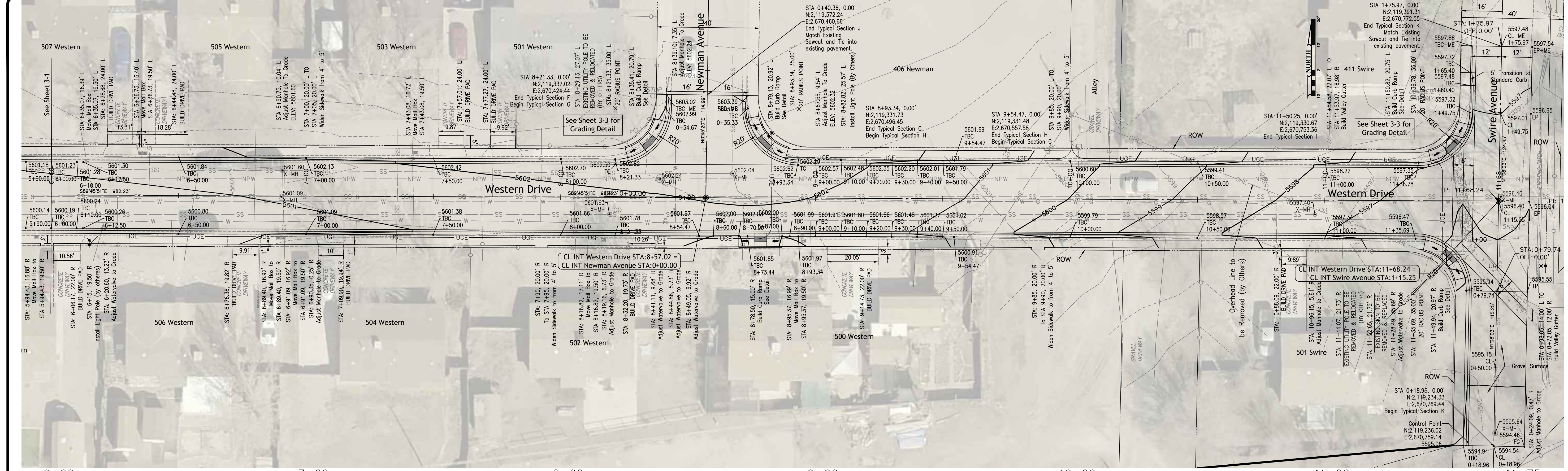
NMDOT CN: L500226

Project Date: 3/17/17

Proj: 16013



Revision Log	1	2	3	4	5	6
Owner:	City of Aztec					
Project:	WESTERN DRIVE RECONSTRUCTION					
Sheet Description:	WESTERN DRIVE PLAN AND PROFILE					
50 Valley Court Durango, CO 970-387-8765						
NMDOT CN:	L500226					
Project Date:	3/17/17					
Proj:	16013					
Plot Date:	03/17/2017 - 11:47am					



6+00	7+00	8+00	9+00	10+00	11+00	11+75
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Revision Log

1	
2	
3	
4	
5	
6	

Owner: City of Aztec

Project: WESTERN DRIVE RECONSTRUCTION

Sheet Description: WESTERN DRIVE PLAN AND PROFILE

Professional Engineer: R. CLAYTON HARRISON, NEW MEXICO, 14238, 3/17/17

CHC Engineers, LLC
50 Valley Court
Durango, CO
970-387-8765

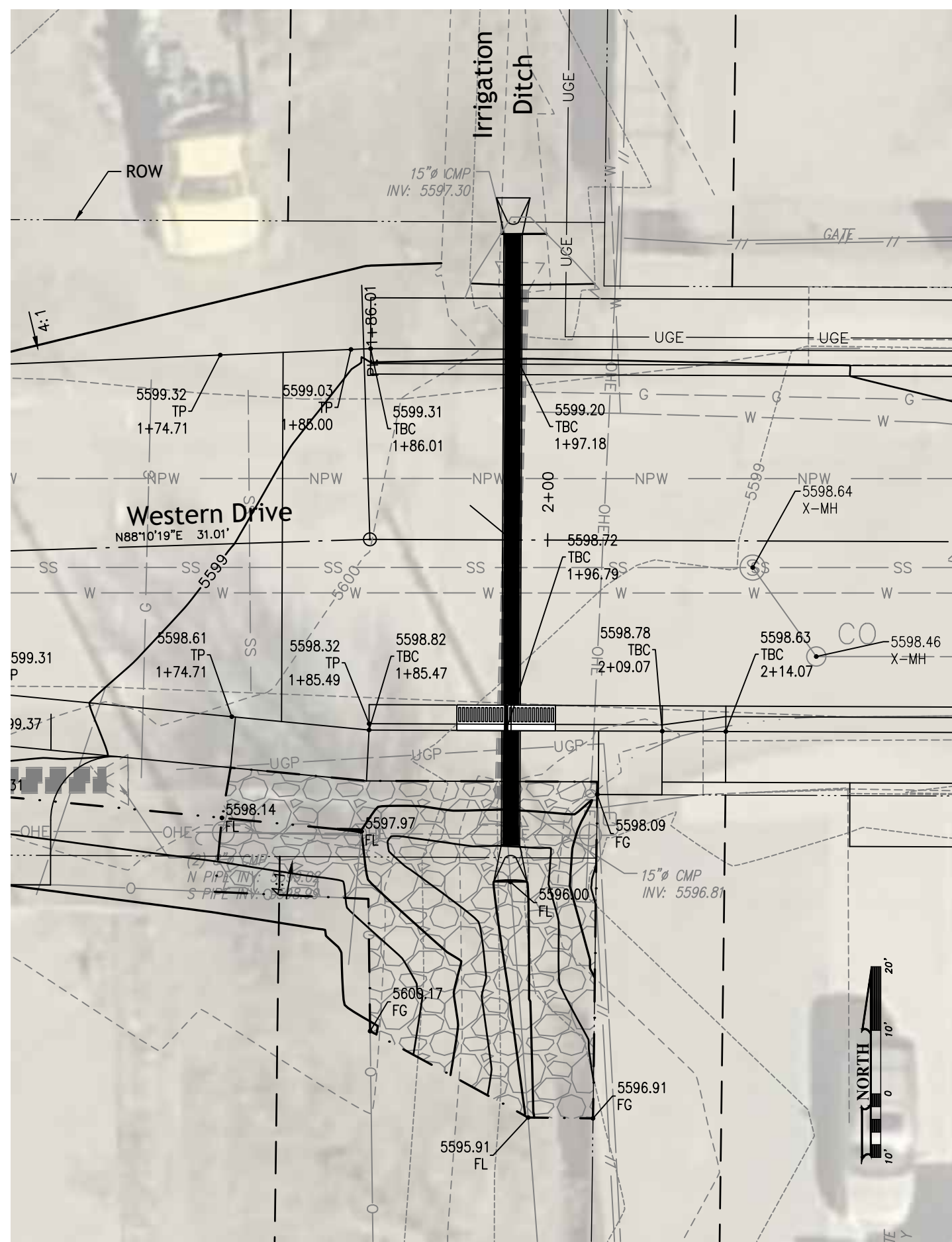
NMDOT CN: L500226

Project Date: 3/17/17

Proj: 16013

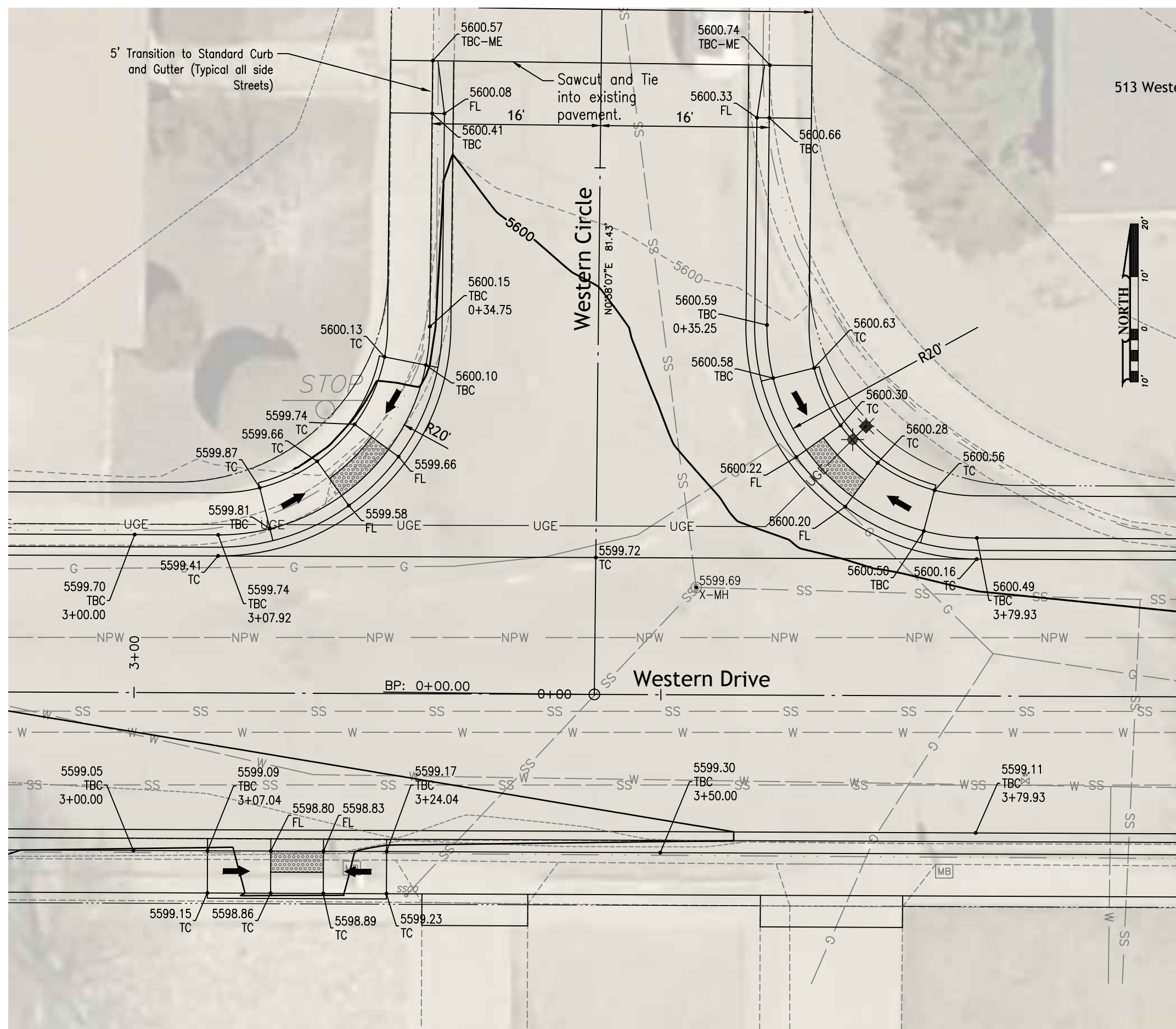
3-2

Plot Date: 03/17/2017 - 11:48am



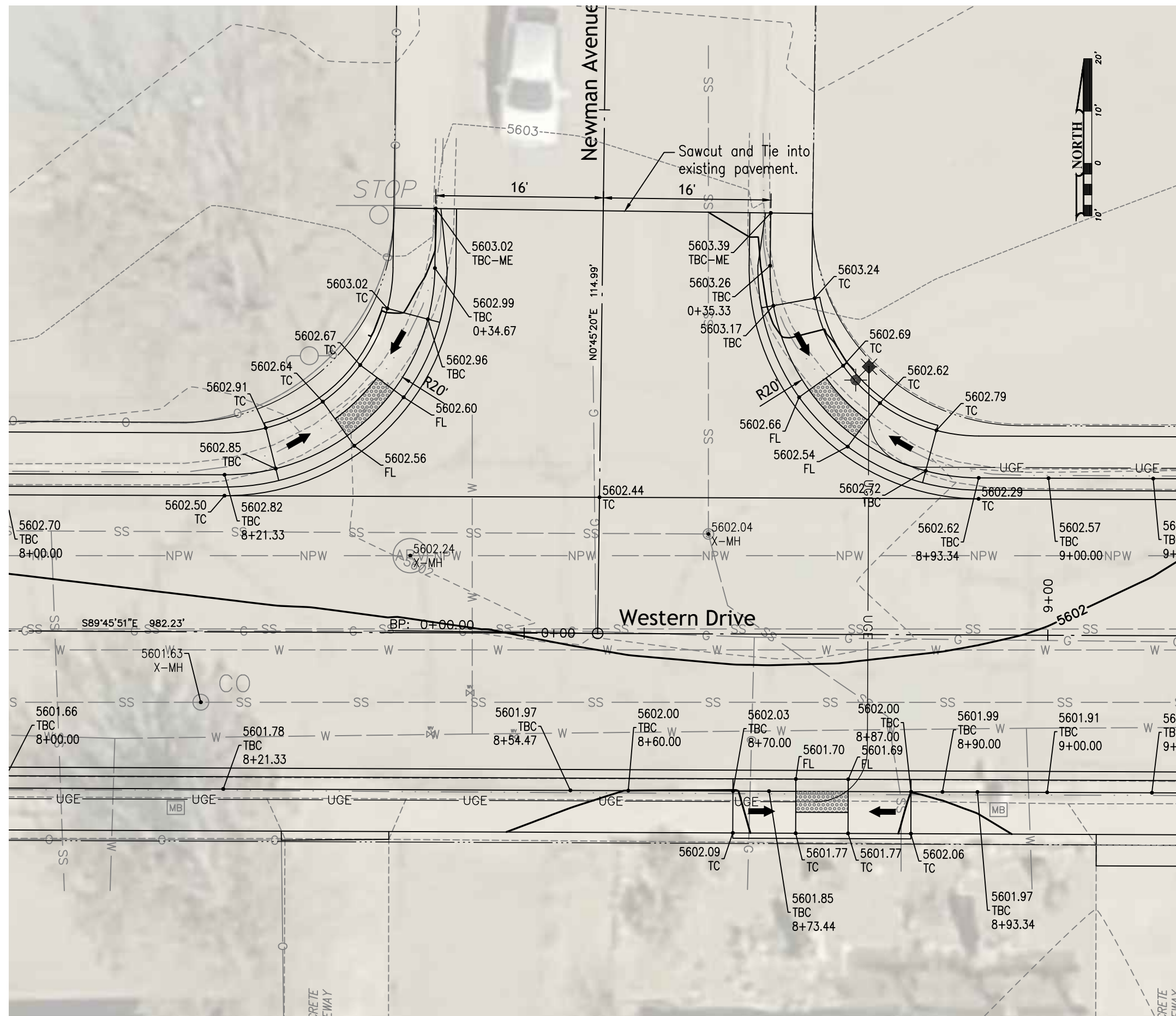
Culvert Grading Detail

Scale: 1" = 10'



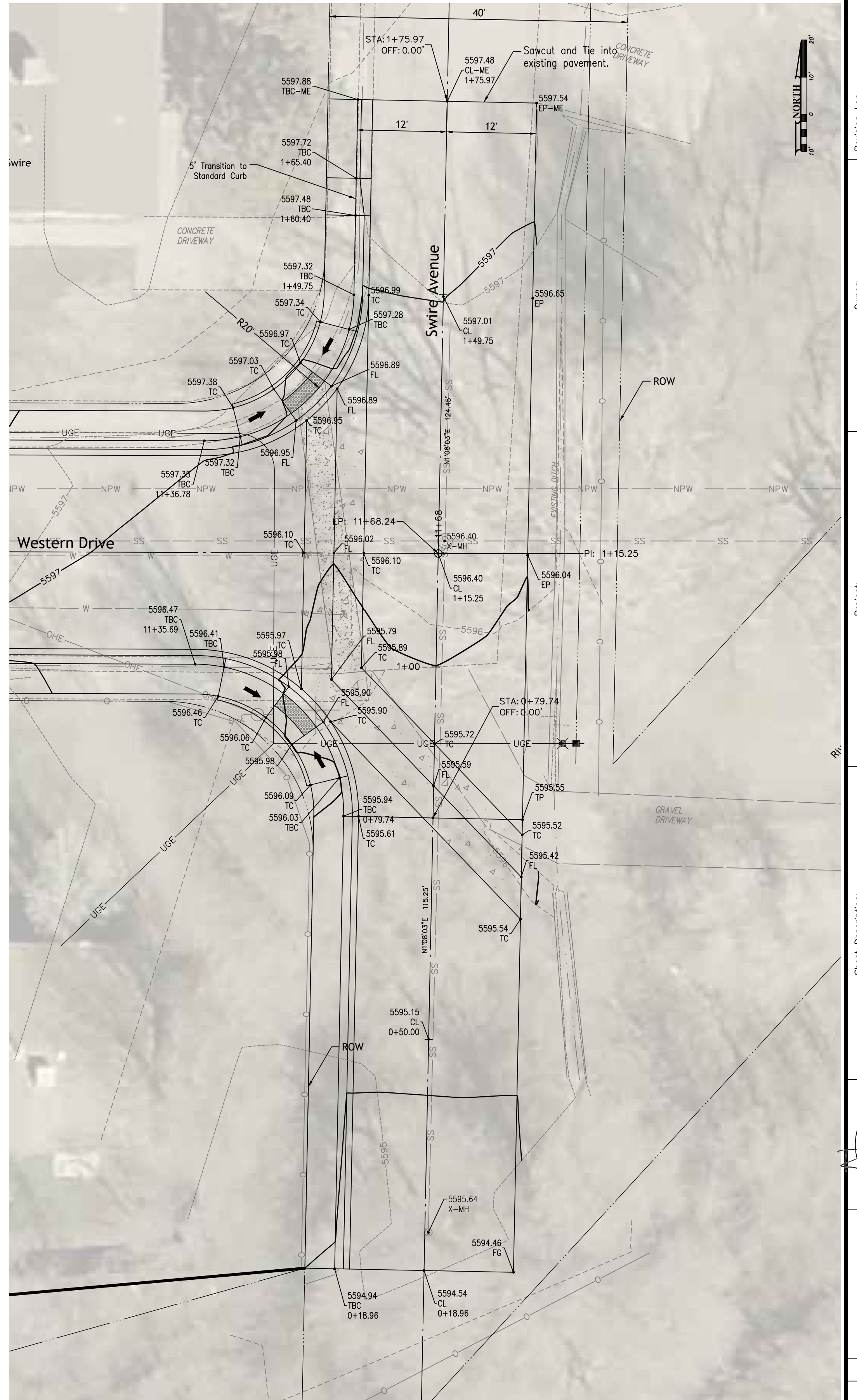
Western Circle Grading Detail

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Newman Avenue Grading Detail

Scale: 1" = 10'



Swire Avenue Grading Detail

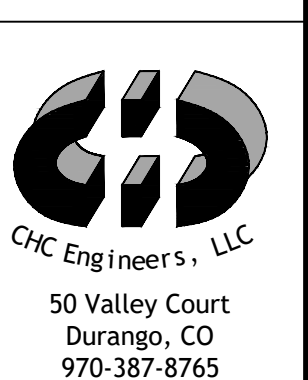
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Revision Log					
No.	Description	Date	By	Check	Appr.
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2					
3					
4					
5					
6					

Owner: City of Aztec

Project: WESTERN DRIVE RECONSTRUCTION

Sheet Description: INTERSECTION GRADING DETAIL



NMDOT CN: L500226

Project Date: 3/17/17

Proj: 16013

Drawn by: J. V. C. / Checked by: J. V. C. / Plotted by: J. V. C. / Date: 03/17/2017 - 11:48am