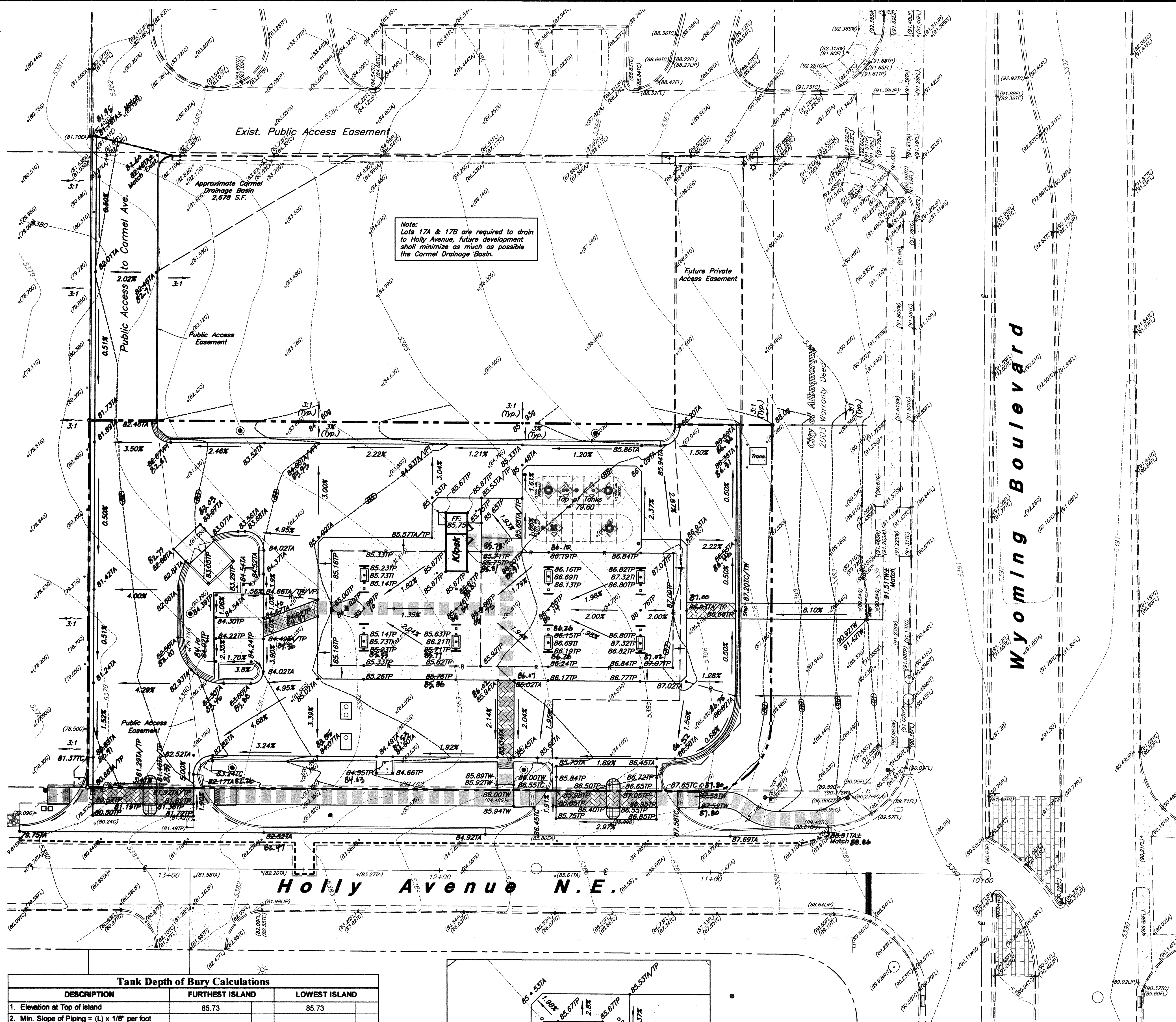


**RECORD
DRAWING**

Scale : 1" = 20'

Tank Installation Notes:

- Contractor shall verify that a minimum of 1% slope is provided on all vapor recovery lines from the MPD to the tanks.

Filter Fabric Notes:

- The bottom and all four sides of tank hole are to be lined with Amoco GEF 4545 or equivalent filter fabric.
- All adjoining filter fabric panel seams are to be overlapped a minimum of 24".
- All filter fabric is to be properly anchored to prevent movement while backfilling tank hole.

General Grading Notes:

- All grading shall be in accordance with the project geotechnical study.
- Cut slopes shall be no steeper than 3 horizontal to 1 vertical.
- Fill slopes shall be no steeper than 3 horizontal to 1 vertical.
- Fills shall be compacted per the recommendations of the geotechnical report prepared for the project and shall be certified by a Geotechnical Engineer.
- Areas to receive fill shall be properly prepared and approved by a Geotechnical Engineer prior to placing fill.
- Fills shall be banded into competent material as per specifications and geotechnical report.
- All trench backfill shall be tested and certified by a Geotechnical Engineer.
- A geotechnical engineer shall perform periodic inspections and submit a complete report and map upon completion of the rough grading.
- The final compaction report and certification from a Geotechnical Engineer shall contain the type of field testing performed. Each test shall be identified with the method of obtaining the in-place density, whether sand cone or drive ring and shall be so noted for each test. Sufficient maximum density determinations shall be performed to verify the accuracy of the maximum density curves used by the field technician.
- Dust shall be controlled by watering.
- The location and protection of all utilities is the responsibility of the permittee.
- Approved protective measures and temporary drainage provisions must be used to protect adjoining properties during the grading process.
- All public roadways must be cleared daily of all dirt, mud and debris deposited on them as a result of the grading operation. Cleaning is to be done to the satisfaction of the Field Engineer.
- The site shall be cleared and grubbed of all vegetation and deleterious matter prior to grading.
- The contractor shall provide shoring in accordance with OSHA requirements for trench walls.
- Aggregate base shall be compacted per the geotechnical report prepared for the project.
- The recommendations in the following Geotechnical Engineering Report by Western Technologies Inc. are included in the requirements of grading and site preparation. The Report is titled "Geotechnical Evaluation, Smith's Fuel Center #459." Job No.: 32204J119 Dated: June 14, 2010
- As part of the construction documents, owner has provided contractor with a topographic survey performed by manual or aerial means. Such survey was prepared for project design purposes and is provided to the contractor as a courtesy. It is expressly understood that such survey may not accurately reflect existing topographic conditions.

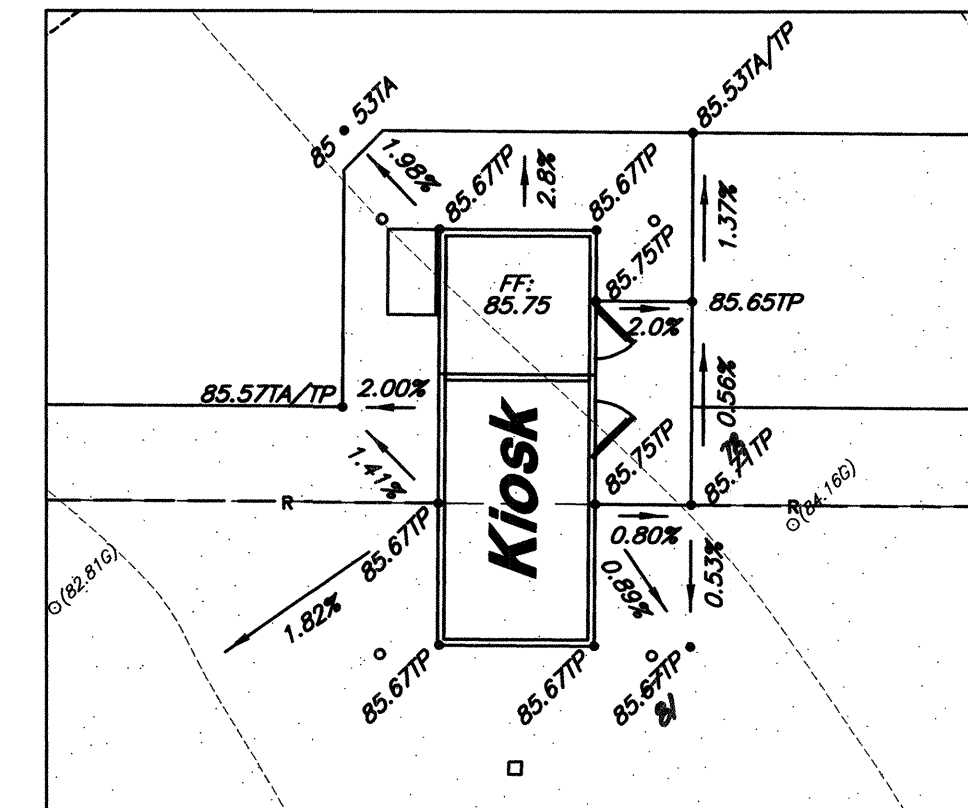
Curb and Gutter Construction Notes:

- Open face gutter shall be constructed where drainage is directed away from curb.
- Open face gutter locations are indicated by shading and notes on the grading plan.
- It is the responsibility of the surveyor to adjust top of asphalt grades to top of curb grades at the time of construction staking.
- Refer to the typical details for a standard and open face curb and gutter for dimensions.
- Transitions from open face to standard curb and gutter are to be smooth. Hand form these areas if necessary.

NOTE:
See Plans by Madison Industries for Footing Depth.

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Tank Depth of Bury Calculations			
DESCRIPTION	FURTHEST ISLAND	LOWEST ISLAND	
1. Elevation at Top of Island	85.73	85.73	
2. Min. Slope of Piping = (L) x 1/8" per foot			
Where L1 = 200 ft., L2 = 200 ft.	2	2	ft
3. Dispenser Island			
Concrete Drive Slab	6"		
Pipe Cover	8"		
Pipe Diameter	3"		
Tank Connection	10"		
Total	33"		
4. Grade Differential = (#2 + #3)	4.75	4.75	ft
5. Top of Tanks = (#1 - #4)	80.98	80.98	ft
6. Top of Tanks = Lowest Calculated Elevation		80.98	
Check Min. / Max. Burial Depth			
7. Lowest Elevation of Slab Above Tank		85.60	
8. Depth of Bury = (#7 - #6)		4.62	ft
NOTE: If #8 < 6 ft., Set Top of Tanks at (#7 - 6.0 ft.) =			
If #8 > 7 ft., Contact Owner for Certification of Burial Depth with Tank			
		79.80	



General Grading Notes:
Scale : 1" = 10'

Smith's
FOOD & DRUG STORES
1550 South Redwood Road
Salt Lake City, Utah 84116
Telephone (801) 974-1400
#459
Albuquerque, New Mexico

GREAT BASIN ENGINEERING - SOUTH
CONSULTING ENGINEERS AND LAND SURVEYORS
2010 North Redwood Road, P.O. Box 16747
Salt Lake City, Utah 84116
Salt Lake City (801) 581-8529 Ogden (801) 224-7288 Fax (801) 581-8581

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

Grading Plan
SMITH'S FUEL CENTER #459
7525 Holly Avenue NE

DESIGN REVIEW COMMITTEE
APPROVED
NOV 15 2010
DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL
APPROVED
FEB 18 2011
CITY ENGINEER

CITY PROJECT NO. 796482
ZONE MAP NO. C-19-Z

LAST DESIGN UPDATE
NOV 15 2010

MO./DAY/YR.
NOV 15 2010

MO./DAY/YR.
FEB 18 2011

SHEET NO. 2 of 8
SMC459GAS-DRC-GR

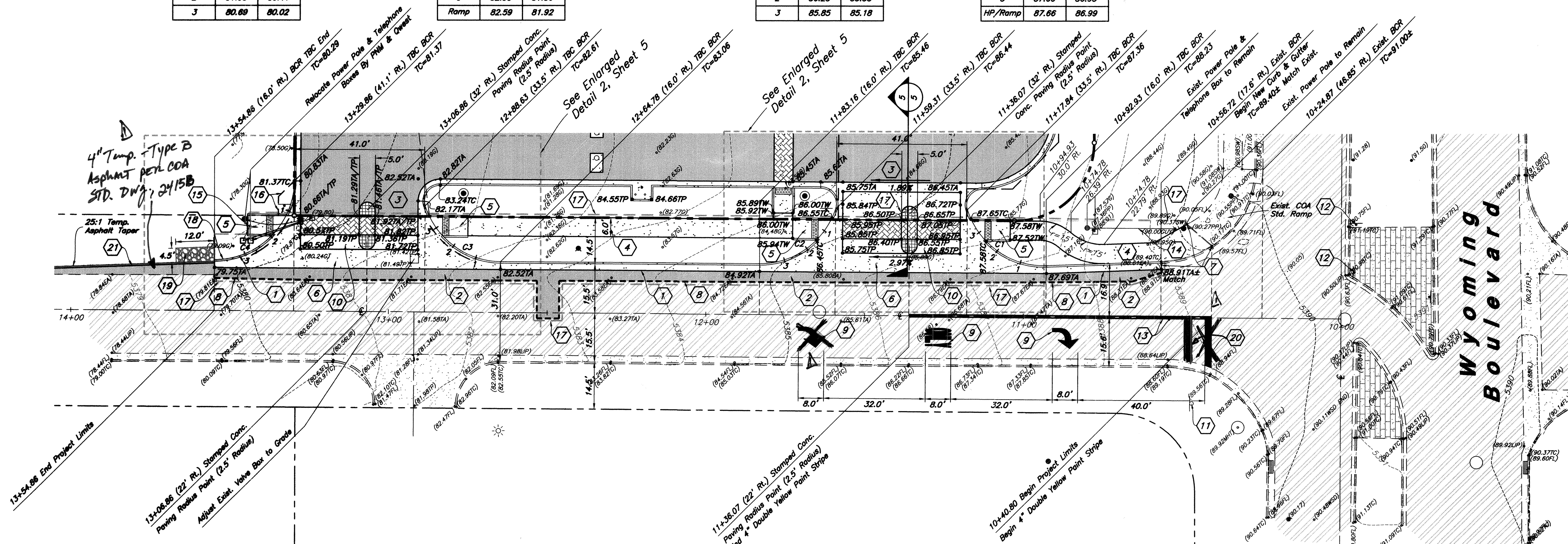
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PLANNING

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Ramp	81.11	80.44
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3	80.69	80.02

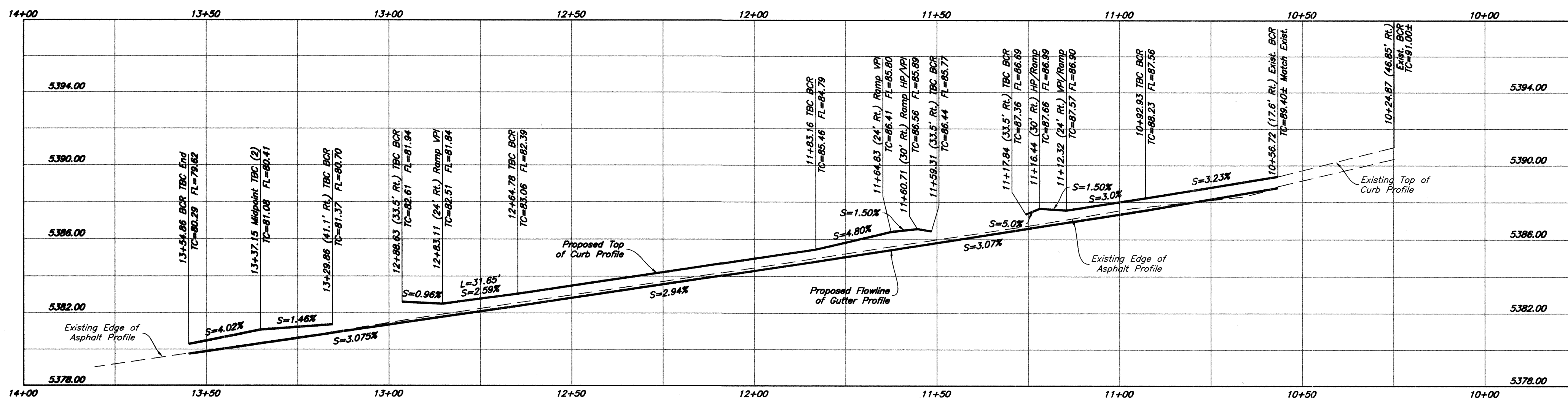
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2	82.65	81.98
Ramp	82.51	81.84
3	82.53	81.86
Ramp	82.59	81.92

C2	TC	FL
HP	86.56	85.89
1	86.50	85.83
Ramp	86.47	85.80
2	86.25	85.58
3	85.85	85.18

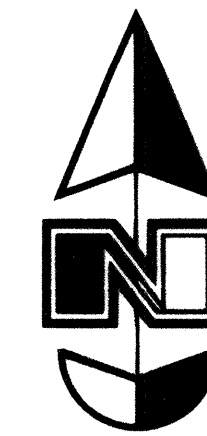
C1	TC	FL
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2	87.73	87.06
Ramp	87.57	86.90
3	87.60	86.93
HP/Ramp	87.66	86.99



Holly Avenue N.E.



RECORD
DRAWING



Scale : 1" = 20' Hor.
1" = 4' Ver.

Construction Key Notes

1. Const. Standard Curb & Gutter per Albuquerque City Std Dwg 2415A
2. Const. Asphalt Paving, per Albuquerque City Std Dwg 2465 - Major Local.
3. Const. Private Entrance per Albuquerque City Std Dwg 2426.
4. Const. 6" Conc. Sidewalk per Albuquerque City Std Dwg 2430
5. Const. Curb Ramp w/Truncated Domes per Albuquerque City Std Dwg 2426
6. Const. 6" Concrete Valley Gutter per Albuquerque City Std. Dwg. 2420
7. Connect & Match to Existing Improvements
8. Sawcut; Provide Smooth Clean Edge, Remove & Replace 1' Wide Exist. Asphalt
9. Const. Pavement Markings per MUTCD
10. Const. Conc. Paving
11. Existing STOP Sign
12. Existing No Left Turn Sign
13. Const. 4" Solid Double Yellow Paint Stripe
14. Existing Guy Wire to Remain
15. 6:1 Tie In Grade to Existing Surface Elevation
16. Proposed Public Access Easement *Dec. 2010/1/2009*
17. Project Limit Line
18. Taper Curb to Zero
19. Install 4"-6" Crushed Rock Rip-Rap, 8" Deep
20. Existing Stop Bar
21. Const. 4" Solid White Stripe

Curve Data

C1	C2
$\Delta = 75^{\circ}2'00''$ $R = 25.00'$ $L = 32.74'$ $LC = 30.45'$ $S = 54^{\circ}33'29'' E$	$\Delta = 72^{\circ}32'18''$ $R = 25.00'$ $L = 31.65'$ $LC = 29.58'$ $N = 54^{\circ}04'28'' E$
C3	C4
$\Delta = 72^{\circ}32'15''$ $R = 25.00'$ $L = 31.65'$ $LC = 29.58'$ $S = 53^{\circ}23'15'' E$	$\Delta = 90^{\circ}11'07''$ $R = 25.00'$ $L = 39.36'$ $LC = 35.41'$ $N = 45^{\circ}15'03'' E$

New Mexico One Call, Inc.
NMOC
Professional Resources for Damage Prevention
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Smith's
FOOD & DRUG STORES
1550 South Redwood Road
Salt Lake City, Utah 84116
Telephone (801) 974-1400
#459
Albuquerque, New Mexico

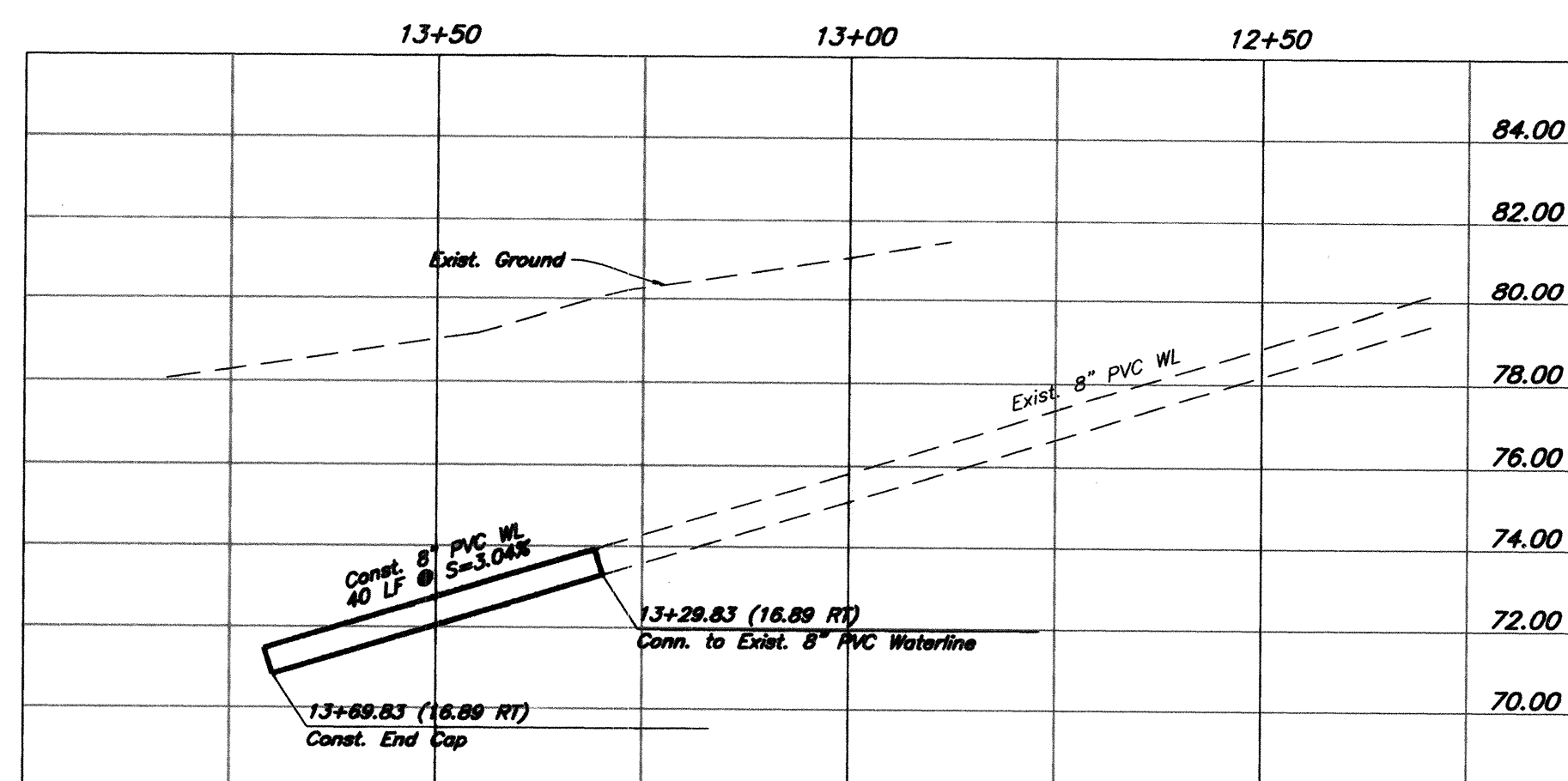
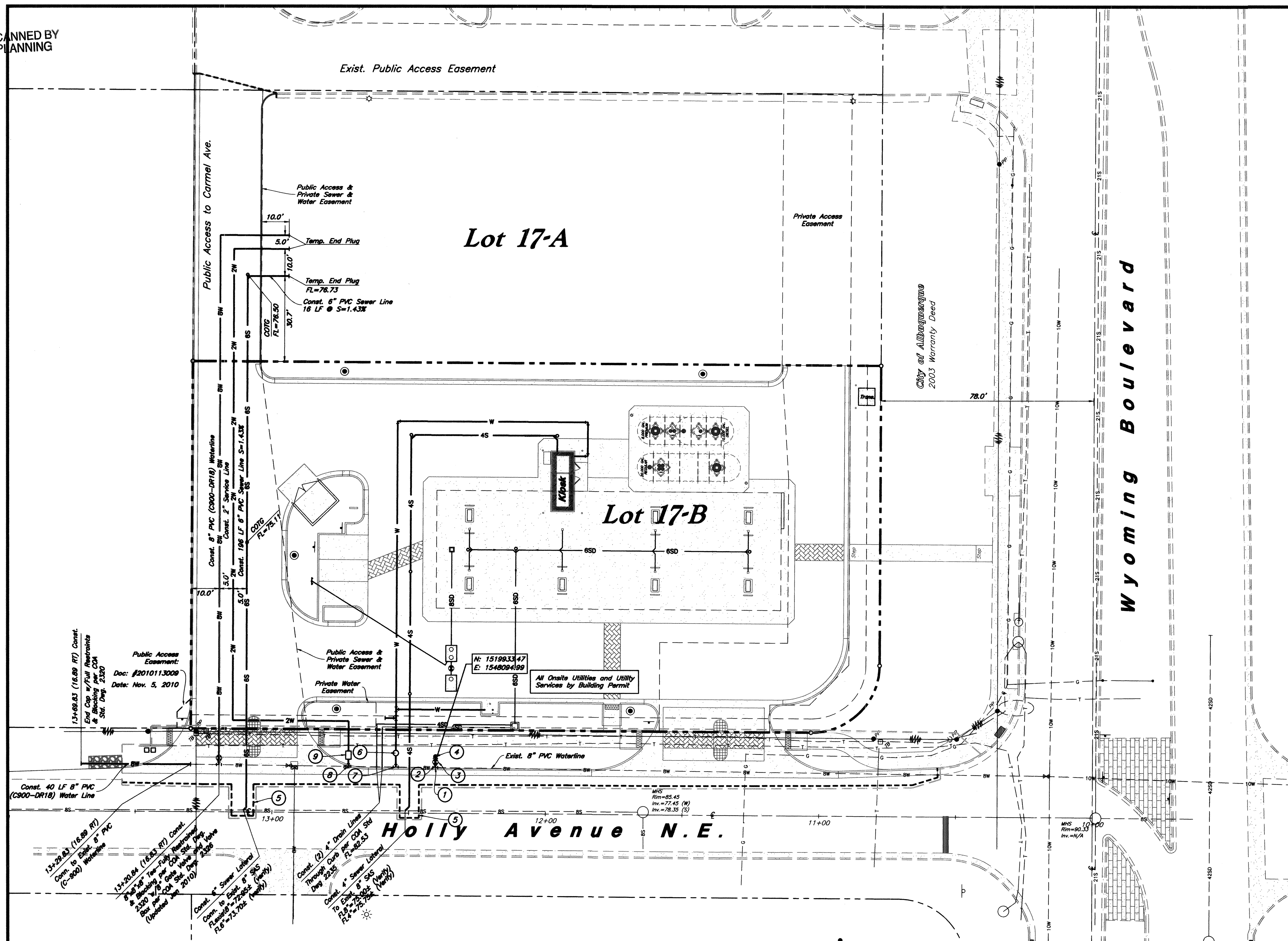
GREAT BASIN ENGINEERING - SOUTH
CONSULTING ENGINEERS and LAND SURVEYORS
2010 North Redwood Road, P.O. Box 16747
Salt Lake City, Utah 84116
Salt Lake City (801) 581-9529 Ogden (801) 389-7288 Provo (801) 381-9531

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **Improvement Plan**
SMITH'S FUEL CENTER #459
7525 Holly Avenue NE

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVED NOV 18 2010 DESIGN REVIEW COMMITTEE	APPROVED FEB 18 2011 CITY ENGINEER		
CITY PROJECT NO.	ZONE MAP NO.	SHEET NO.	
796482	C-19-Z		

3 of 8
SMC459GAS-DRG-PP



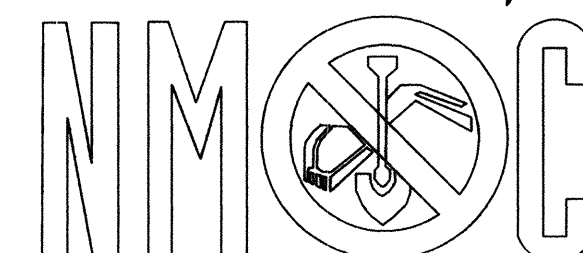
Water Construction Notes

- 1 Conn. to Existing 8" water Line with 8"x6" Tapping Sleeve with Full Restraints and Blocking per CQA Std Dwg 2320
- 2 Const. 6" C-900-DR18 Water Line
- 3 Const. 6" Gate Valve & Valve Box per CQA Std Dwg 2326 (Updated January 2010)
- 4 Const. Fire Hydrant per CQA Std Dwg 2340. Flange Elevation = 84.12
- 5 Approximate Pavement Work Limits. Remove & Replace per CQA Std Dwg 2485 - Major Local
- 6 Const. ¾" Meter per ABCWUA Standards
- 7 Const. ¾" Service on Existing 8" PVC Water Line
- 8 Const. 2" Service on Existing 8" PVC Waterline per CQA Std Dwg. 2363
- 9 Const. 2" Meter per ABCWUA Standards.

CAUTION :

The locations and/or elevations of existing utilities as shown on these plans are based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied on as being exact or complete.

New Mexico One Call, Inc.



Professional Resources for Damage Prevention

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Smith's

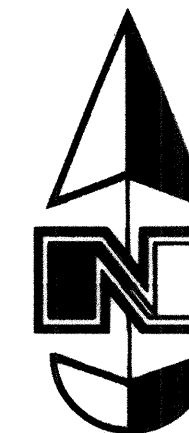
FOOD & DRUG STORES

1550 South Redwood Road
Salt Lake City, Utah 84104
Telephone (801) 974-1400

459

Albuquerque, New Mexico

**RECORD
DRAWING**



Scale : 1" = 20'

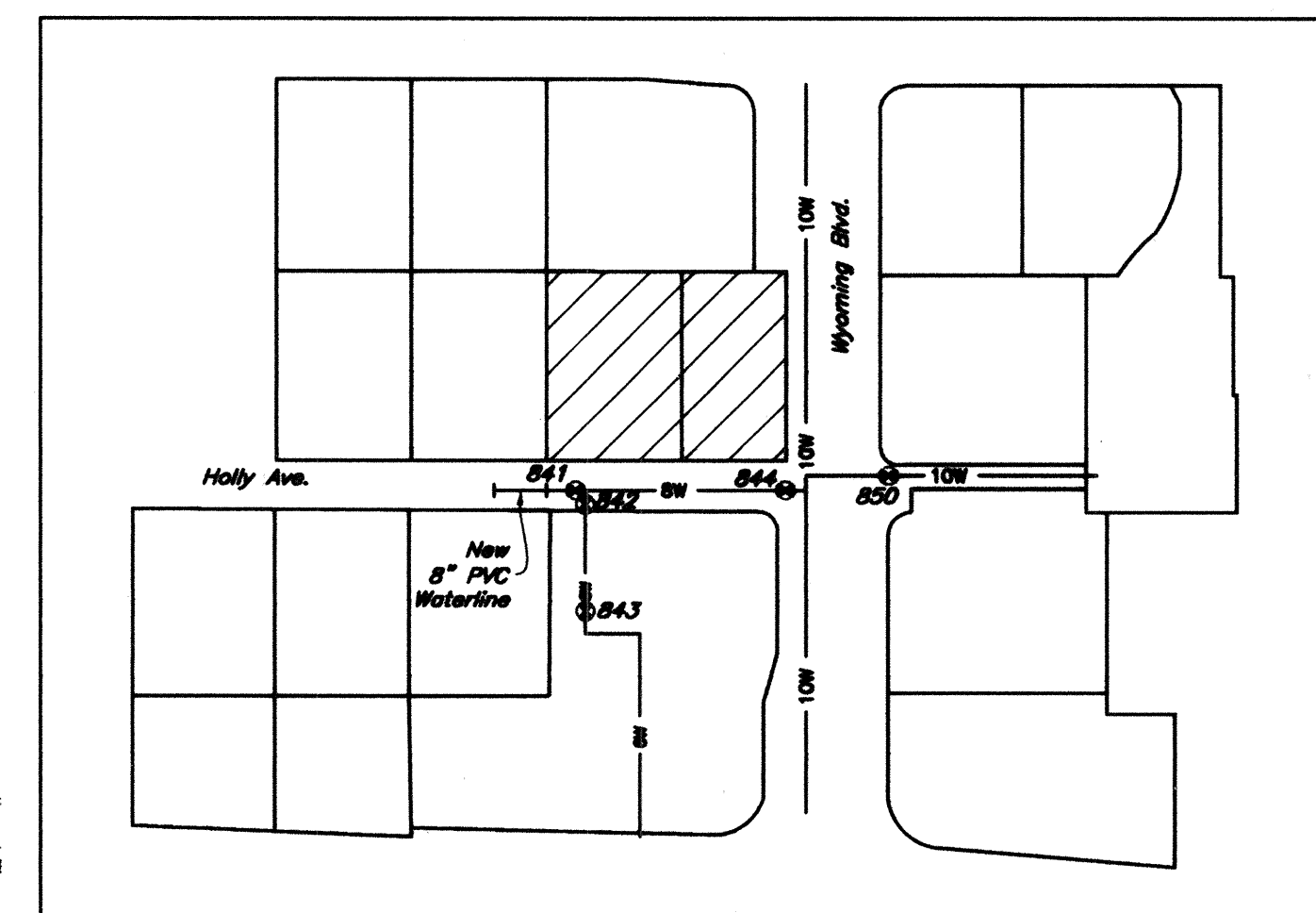


Note:

Contractor shall install all additional Conduits per Galloway Plans.

General Utility Notes:

1. *All sewer and water facilities shall be constructed per local jurisdiction standards and specifications. Contractor is responsible to obtain standards and specifications.*
2. *Verify depth and location of all existing utilities prior to constructing any new utility lines. Notify City Engineer of any discrepancies or conflicts prior to any connections being made.*
3. *Contractor Shall Coordinate with Water Authority, (857-8200) Seven (7) Working Days Prior to Any Work That May Affect Existing Water Authority Public Water or Sewer Utilities. Contractor Shall be Responsible for Timing and Coordination of Water Shutoff. Existing Water Authority Valves to be Operated by Water Authority Personnel Only.*
4. *All Final Backfill for Trenches Within Shall be Compacted to a Minimum of 95% Maximum Density per ASTM D-1557 and as Directed by Standard Specifications Section 701.14.2 and Standard Drawing Number 2465.*
5. *Electronic Marking Spheres (EMS) Will be Placed According to Section of the City of Albuquerque Specifications for Public Works Construction, 1986 Edition as Revised Through Update #7.*
6. *RCF Shall be Installed so That the Joint Gap at the Hinge Position Shall Conform to the Approved Manufacturer's Recommendation. Manufacturer's Recommended Joint Gap Tolerances for Each Pipe Size and Type Shall be Submitted to the Engineer for Review. The RCJ shall be installed so that the RCJ Joints Shall Not be Grouted Unless Directed by the Engineer After City Approval.*
7. *Waterline Shall Have a Minimum Cover of 4'-0" (Finished Grade to Top of Pipe).*



Water Shutoff Plan

Connect to Existing 8" Waterline and Extend
40'. Close Valve 841, Plan J16.

Emergency Water Shutoff Plan

Hot Tap Existing 8" Water Line in Holly Avenue. In case of Emergency, The following valves will be required to be shut - 841, 842, and 844 on Albuquerque City Plan J16.

Contact: Anthony Montoya
768-2713



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

Utility Plan

SMITH'S FUEL CENTER #459
7525 Holly Avenue NE

DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL

APPROVED

APPROVED

FEB 11 2011

FEB 18 2011

DESIGN

100-443887-100

DESIGN REVIEW COMMITTEE

CITY ENGINEER

CITY PROJECT NO. 3064

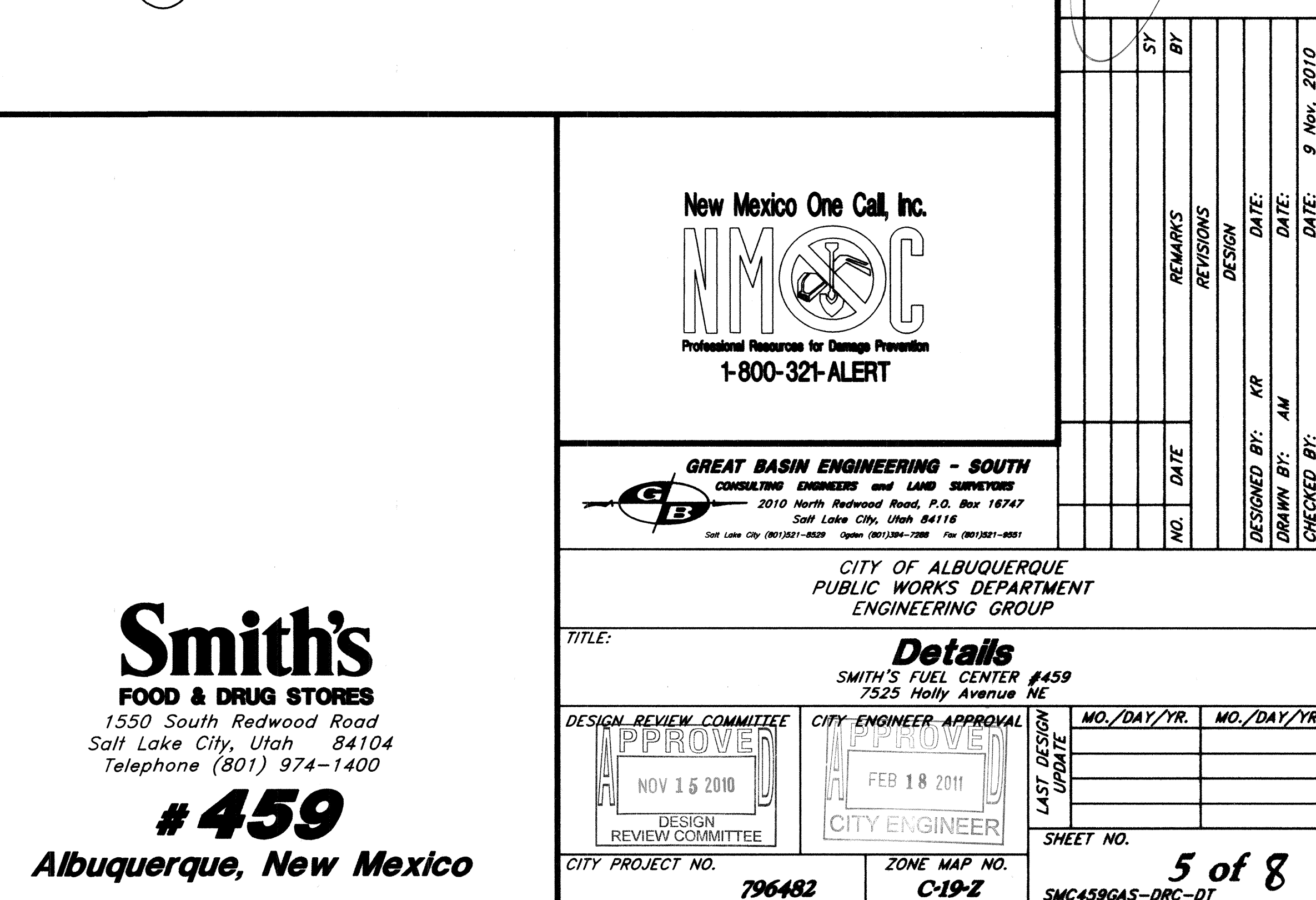
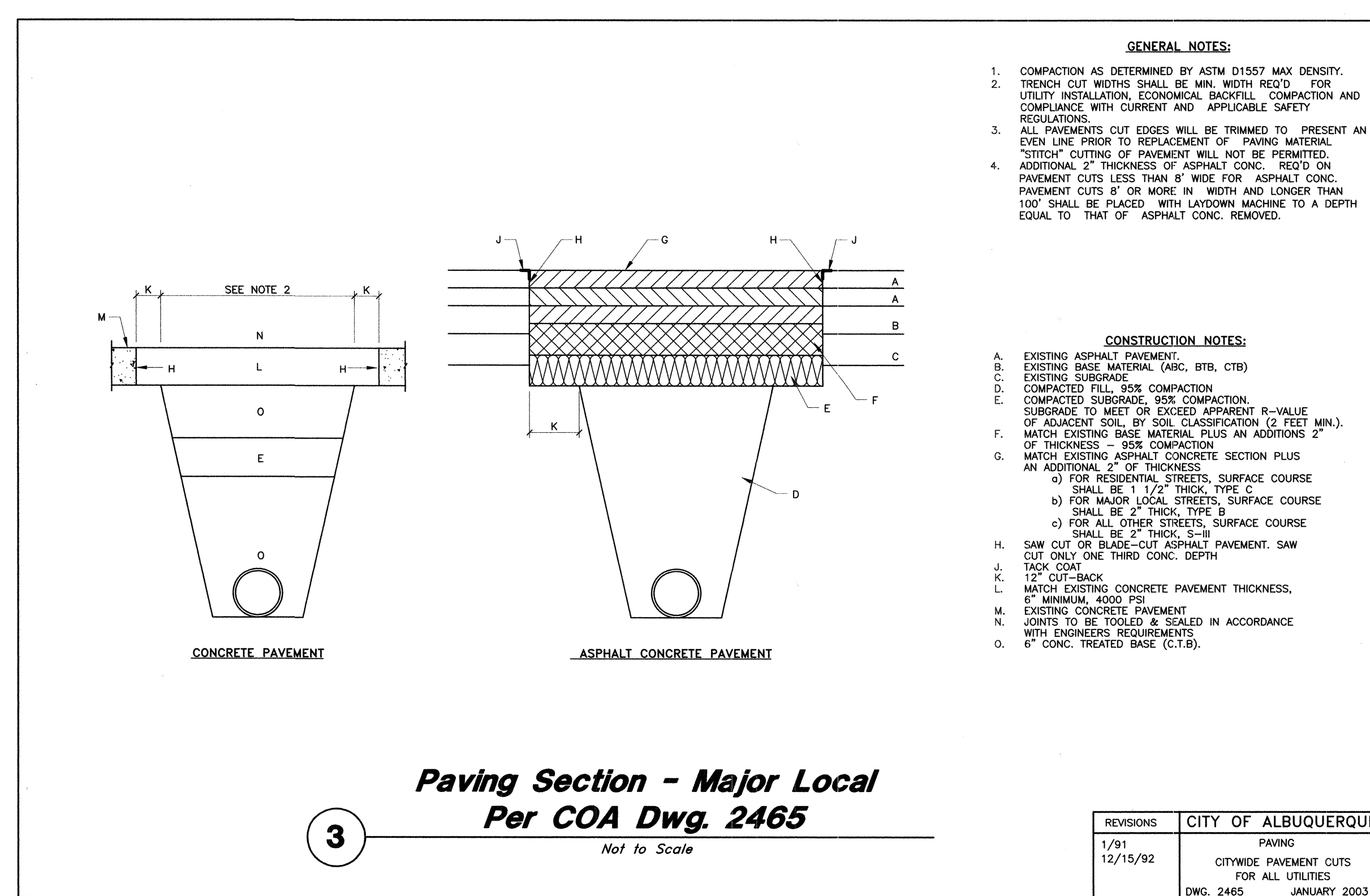
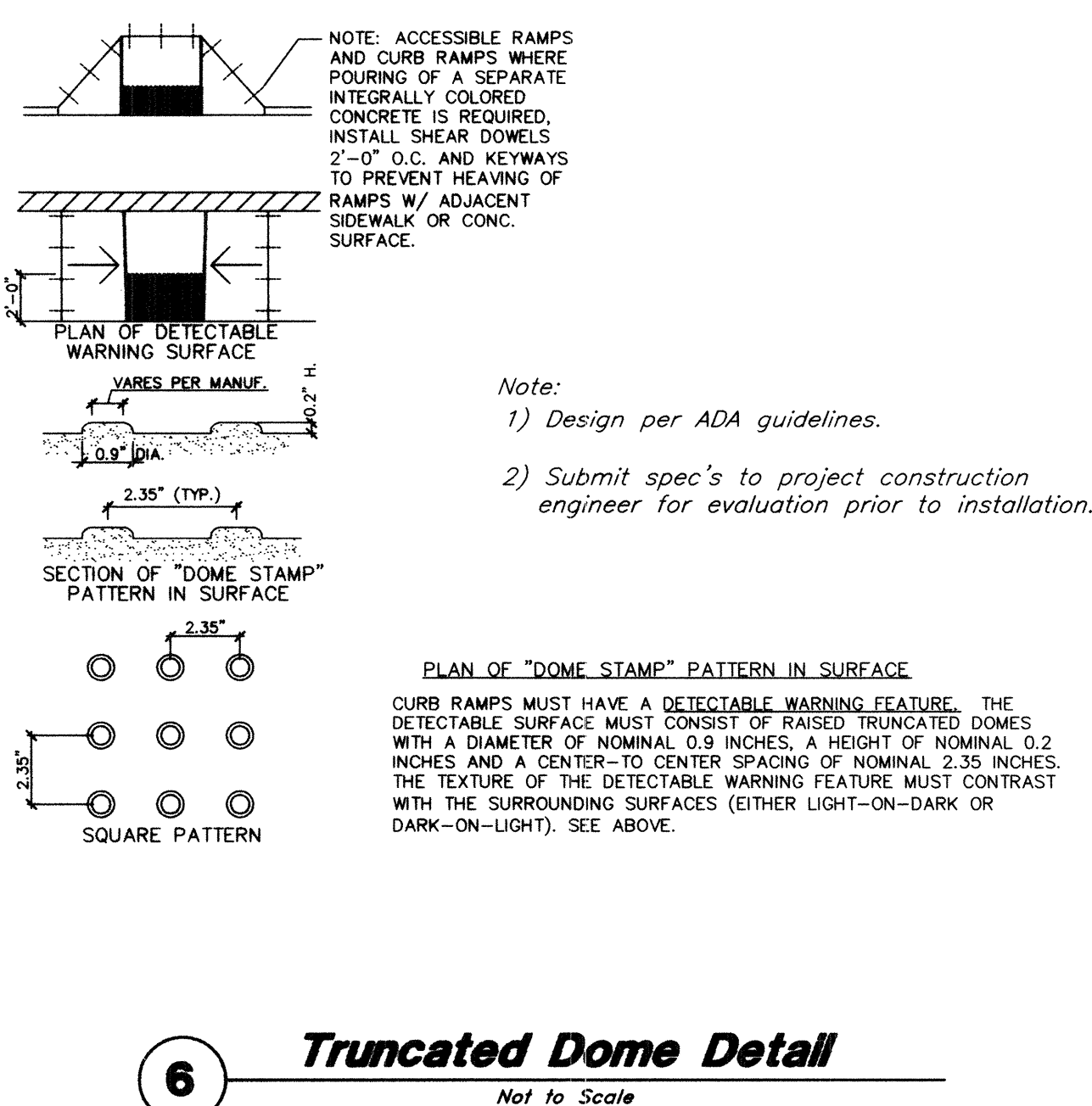
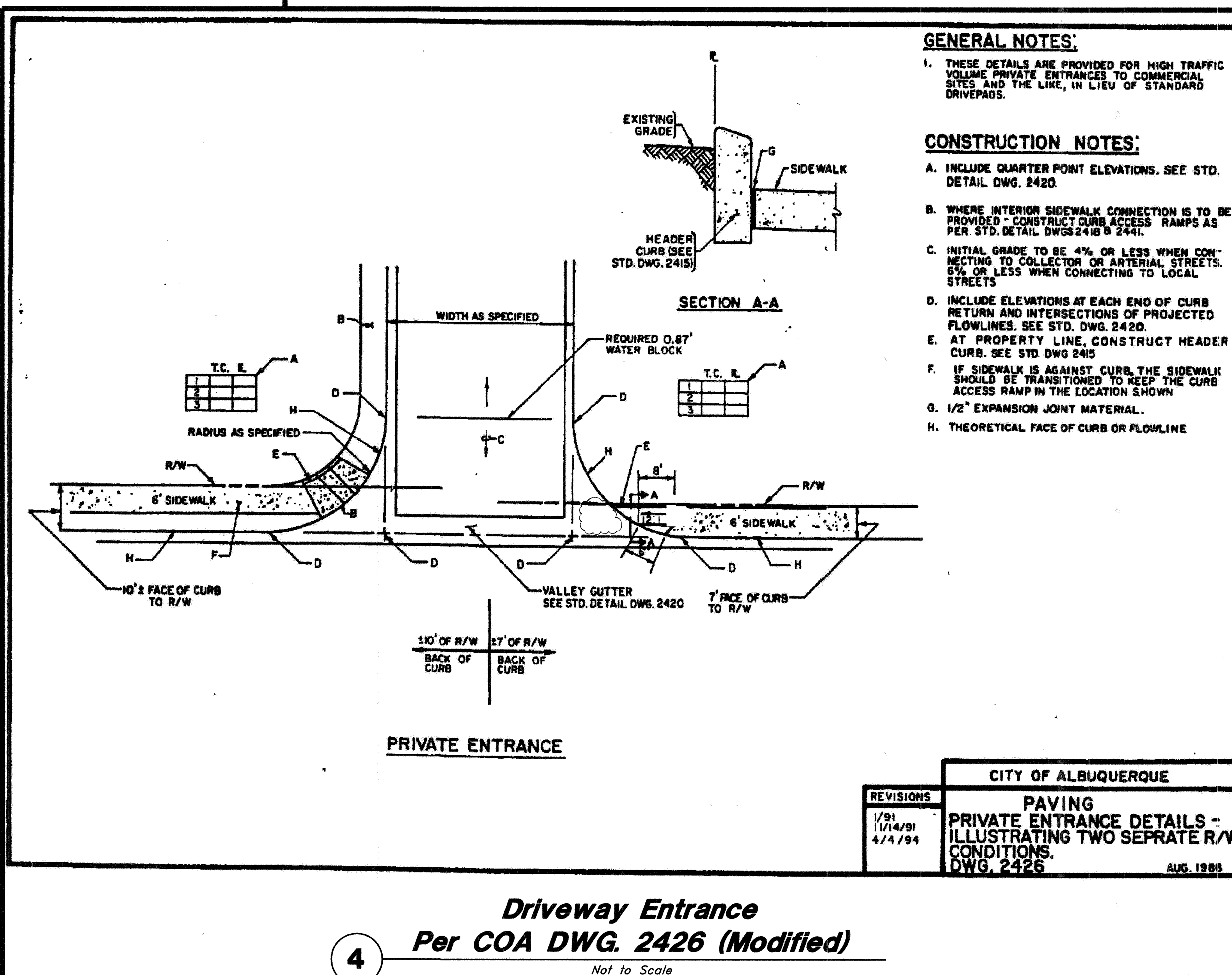
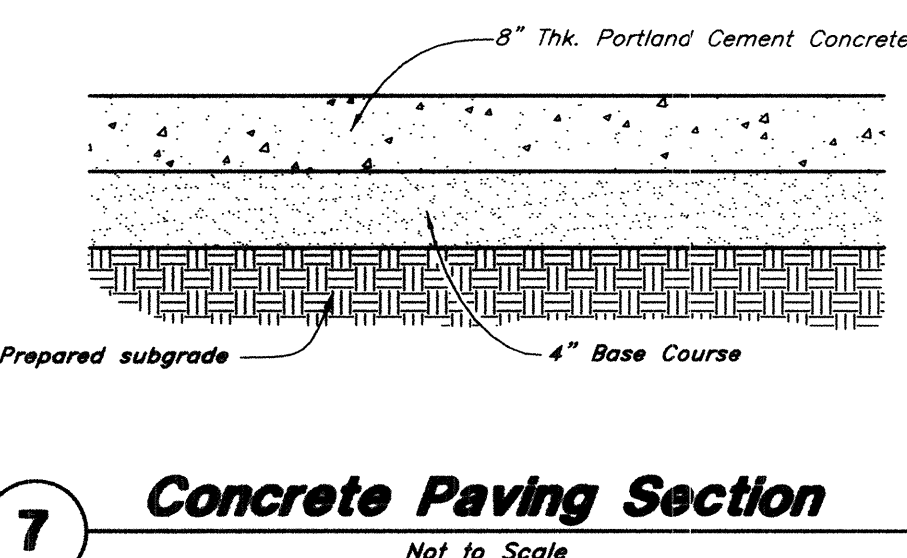
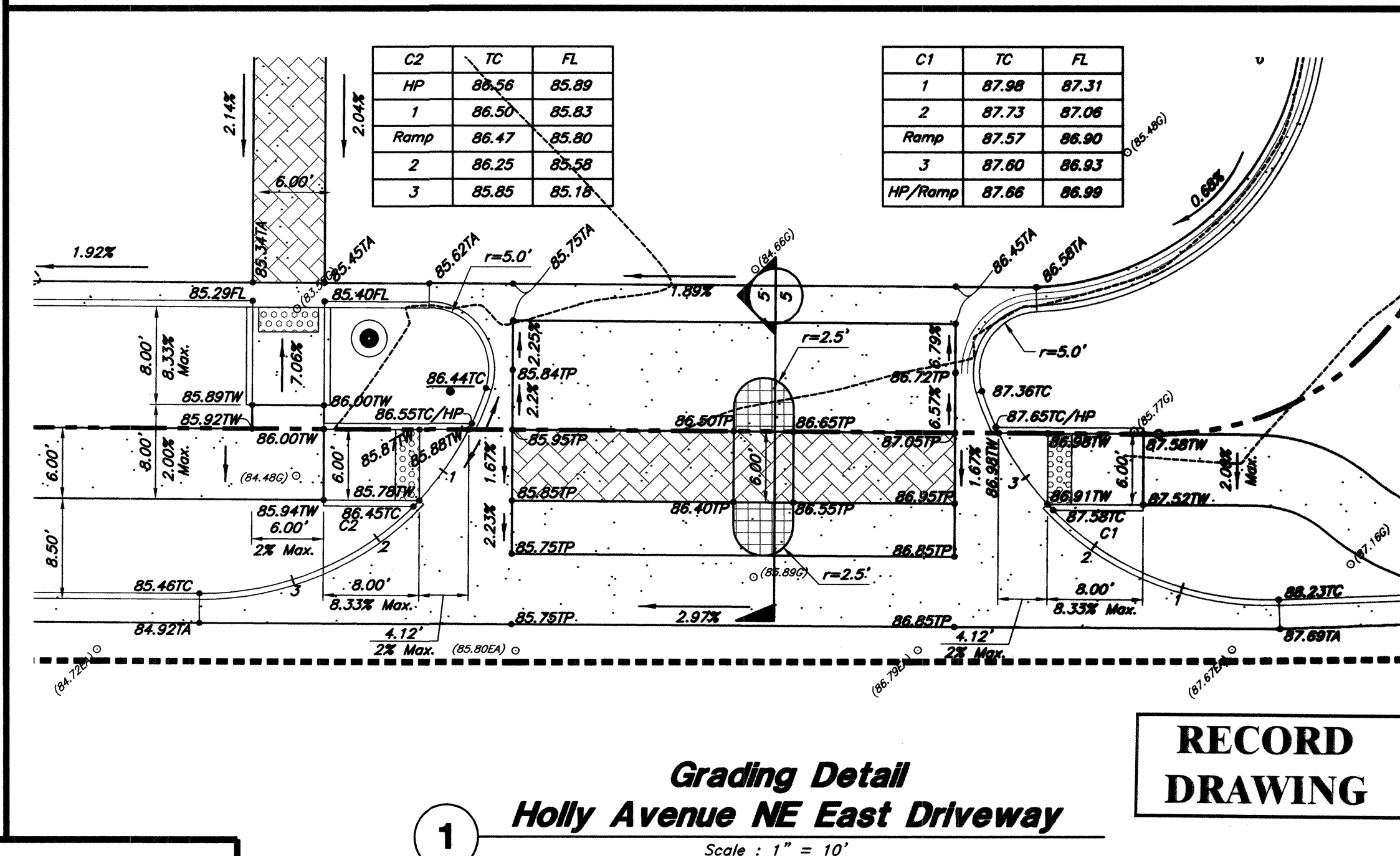
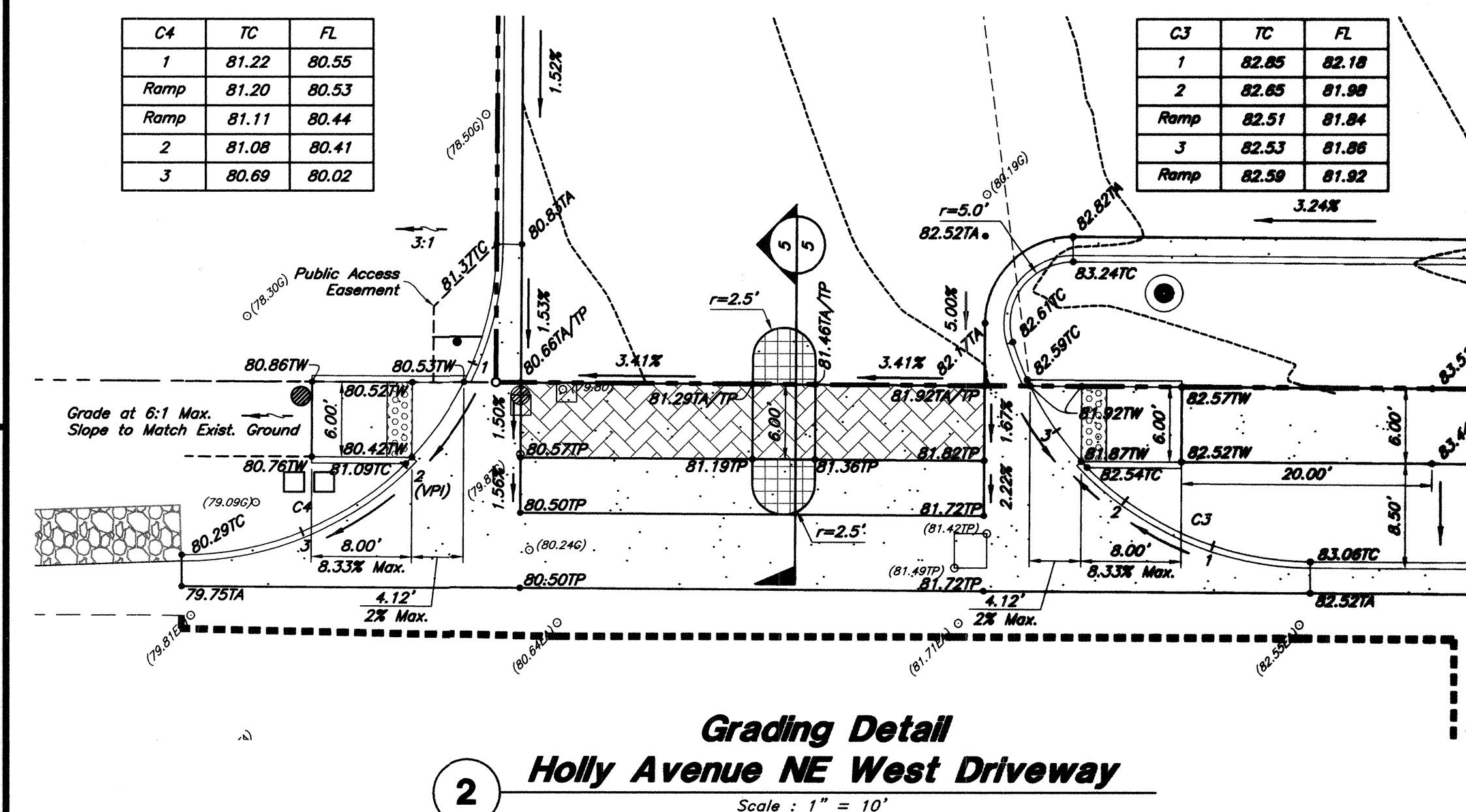
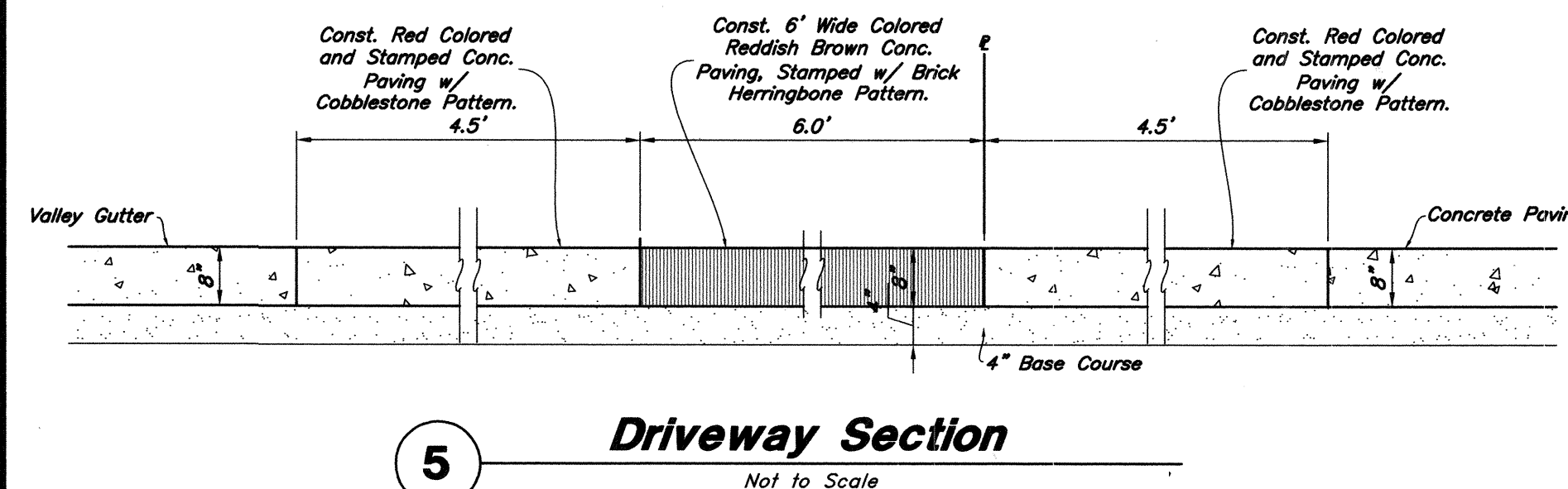
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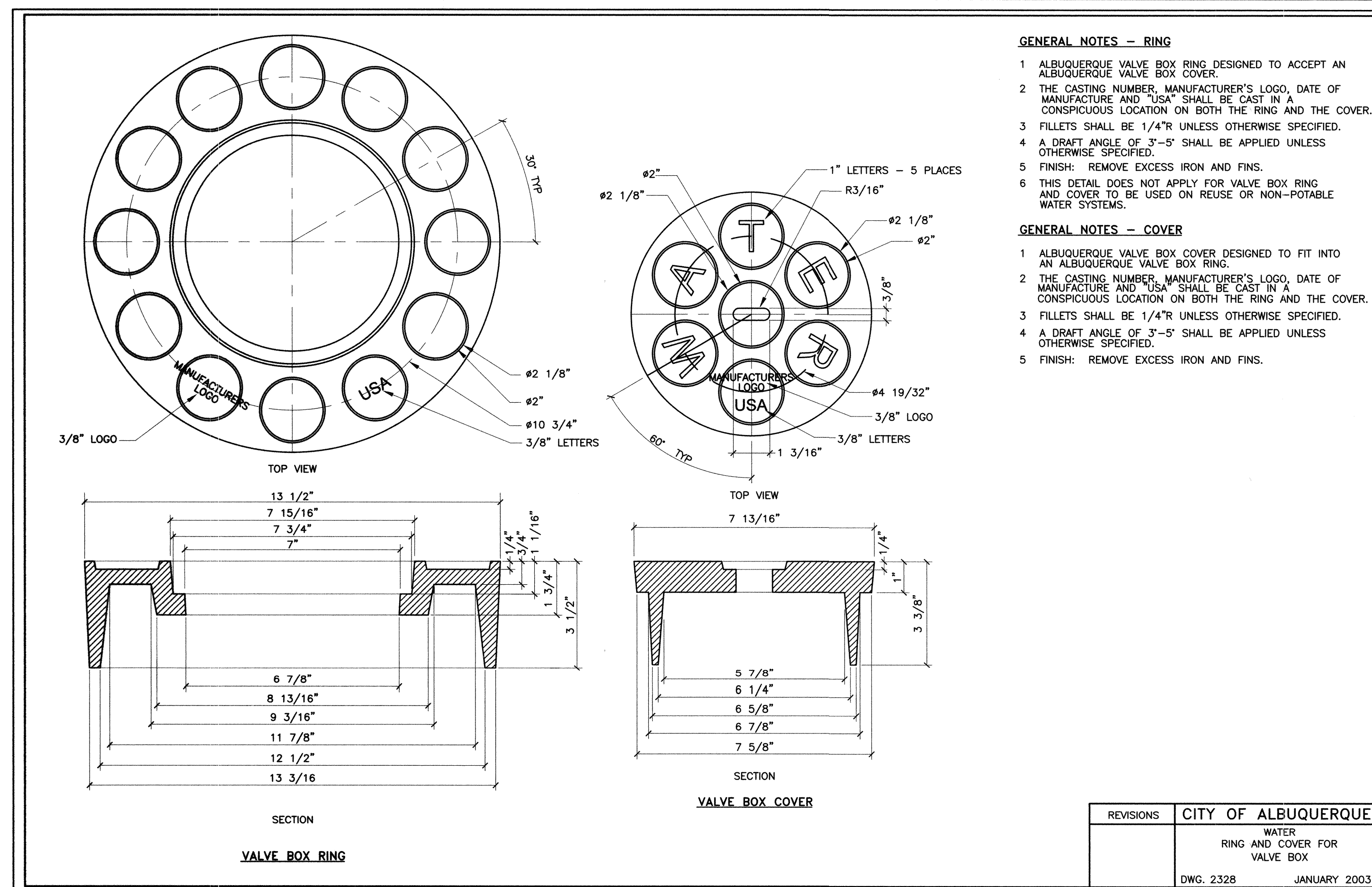
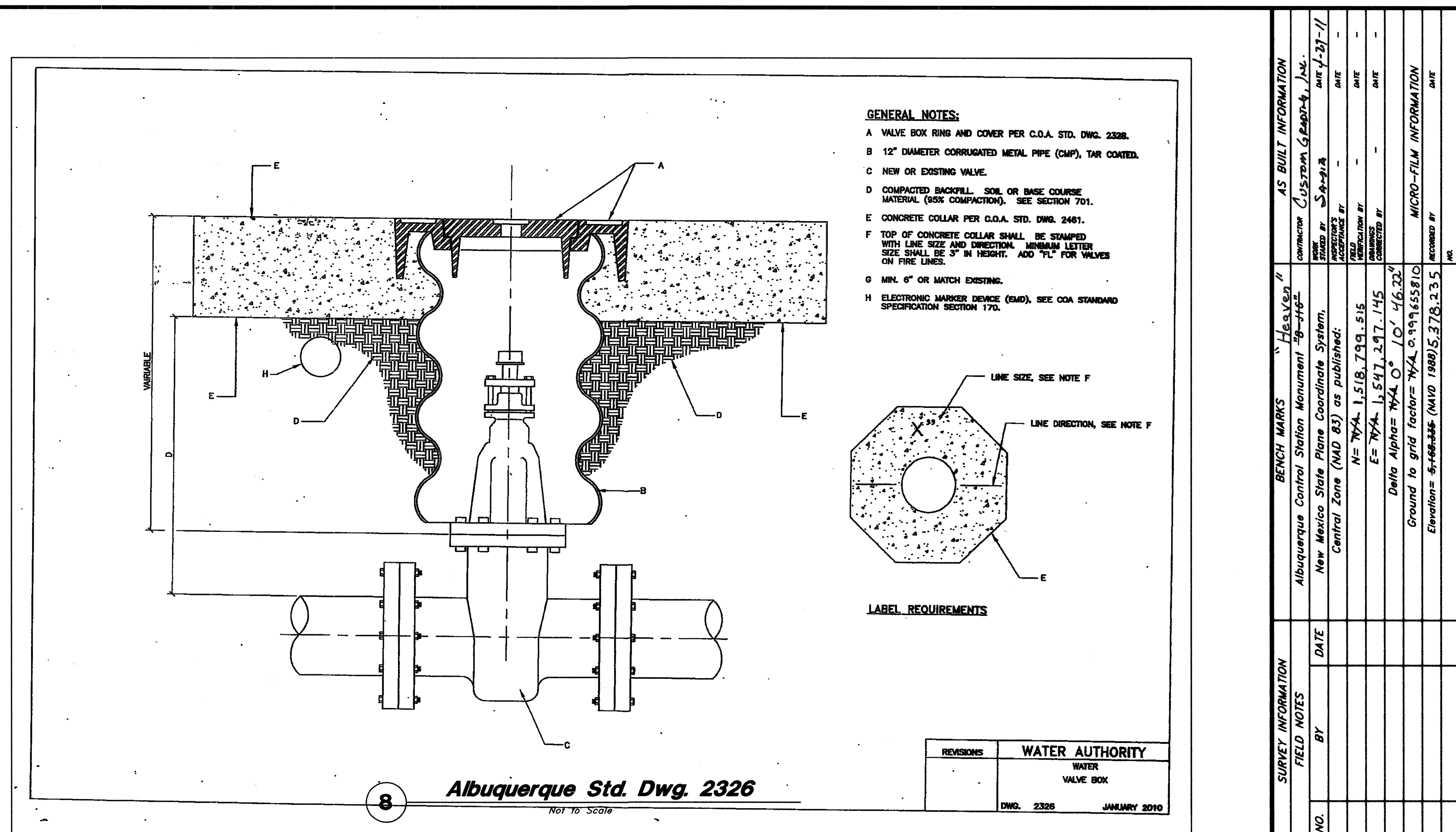
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C-10-7

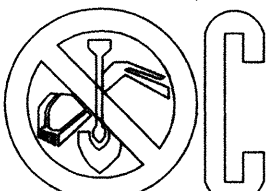
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INVOICE DEPARTMENT NUMBER		
IN NO. 459 DATE		
LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
SHEET NO.		
4 of 8		
SMC459GAS-DRC-UT(R)		

SCANNED BY
PLANNING





RECORD DRAWING		ENGINEER'S SEAL	
 New Mexico One Call, Inc. NMOC Professional Resources for Damage Prevention 1-800-321-ALERT			
		NO.	DATE
		SY	BY
		REMARKS	REVISONS
		DESIGN	DATE:
		DESIGNED BY: KR	DATE:
		DRAWN BY: AM	DATE:
		CHECKED BY:	DATE: 9 Nov, 2010
 GREAT BASIN ENGINEERING - SOUTH CONSULTING ENGINEERS and LAND SURVEYORS 2010 North Redwood Road, P.O. Box 16747 Salt Lake City, Utah 84116 Salt Lake City (801)321-8529 Ogden (801)394-7288 Fax (801)321-8881			
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE:			
Details SMITH'S FUEL CENTER #459 7525 Holly Avenue NE			
DESIGN REVIEW COMMITTEE APPROVED NOV 16 2010 DESIGN REVIEW COMMITTEE	CITY-ENGINEER APPROVAL APPROVED FEB 18 2011 CITY ENGINEER	LAST DESIGN UPDATE 	MO./DAY/YR.
SYSTEM PROJECT NO.		ZONE MAP NO.	
796482		C-19-Z	
SMC459GAS-DRC-DT		SHEET NO. 6 of 8	

