

PROPOSED TLC SUBDIVISION

PHASE 1 PLATTING RAPID CITY, SOUTH DAKOTA



File Number:
2009

Locator:
NE 1/4 SEC 22

Tax ID: 184

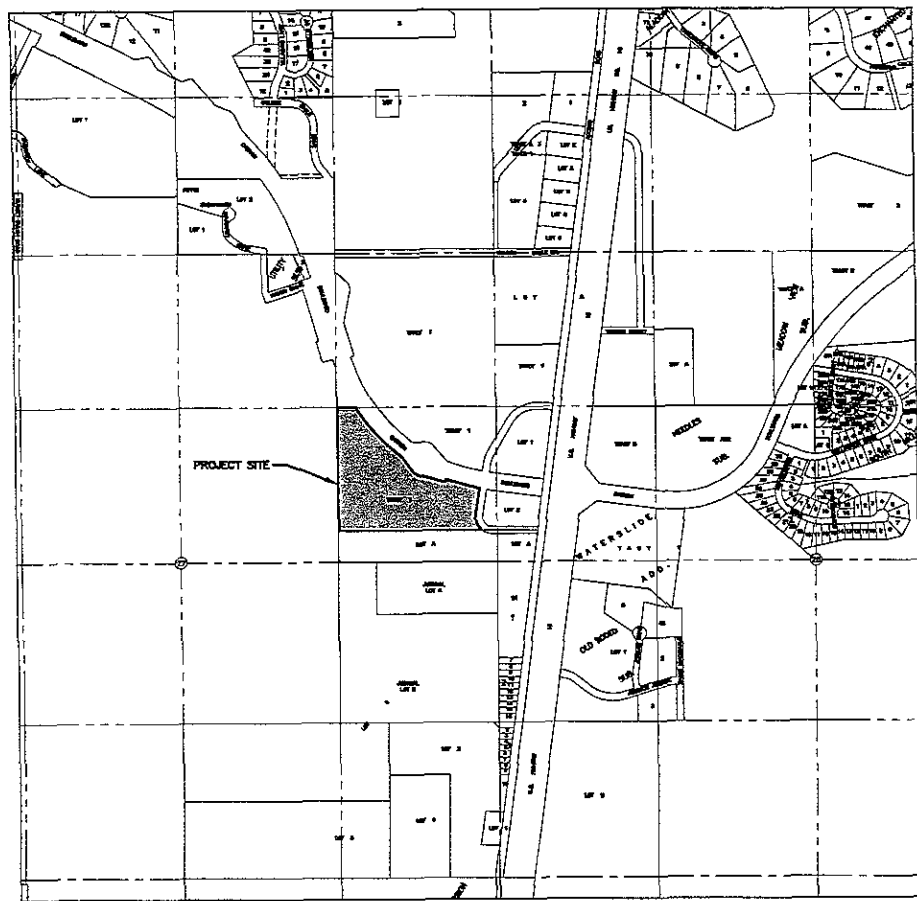
Submitted By: DW/AM/22/02

Date: NOV 2007 EDC 2007

Designed By: JSP

Drawn By: KRP/APP

Checked By: JSP



- INDEX OF SHEETS
1. TITLE SHEET
 2. NOTES & DETAILS
 3. GRADING PLAN
 - 4.-5. PLAN & PROFILE

VICINITY MAP
SCALE: 1" = 500'

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JAN 31 2008

Rapid City Growth
Management Department

PROPOSED TLC SUBDIVISION
PHASE 1 PLATTING
RAPID CITY, SD

Revision / Date

Sheet Name:

TITLE SHEET

Sheet Number:
1 of 5

CONSTRUCTION NOTES

- GENERAL NOTES:**
1. THE CONTRACTOR SHALL SECURE ALL REQUIRED PERMITS PRIOR TO BEGINNING WORK.
 2. ALL EXISTING UTILITIES MAY BE SHOWN OR LOCATIONS MAY VARY FROM WHAT SHOWN. THE CONTRACTOR IS RESPONSIBLE TO HAVE ALL UTILITIES LOCATED PRIOR TO BEGINNING WORK.
 3. PROVIDE TRAFFIC CONTROL DURING CONSTRUCTION IN ACCORDANCE WITH THE MANUAL OF UTILITY TRAFFIC CONTROL DEVICES. PROVIDE TRAFFIC PLAN TO CITY FOR APPROVAL.

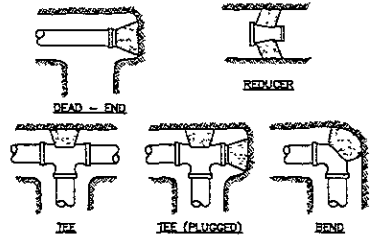
- SPECIFICATIONS AND DETAILS TO BE USED:**
1. UNLESS OTHERWISE NOTED OR SPECIFIED ALL WORK SHALL COMPLY WITH THE 2007 EDITION OF THE CITY OF RAPID CITY STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
 2. UNLESS OTHERWISE SHOWN OR NOTED ALL STANDARD DETAILS SHALL BE FOR THE 2007 EDITION OF THE CITY OF RAPID CITY STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

- UTILITY SERVICE LINES:**
1. UNLESS OTHERWISE NOTED BY PUC SERVICE LINES SHALL BE CONSTRUCTED TO SERVE EACH LOT. TYPICAL LOCATIONS ARE SHOWN ON THIS GRADING RECORD. THE EXACT LOCATION OF EACH SERVICE SHALL BE DETERMINED BY THE OWNER. OWNER SHALL BE RESPONSIBLE TO INSTALL AN AMERICAN BUREAU OF ENGINEERS APPROVED BY SIGNAL MARK END OF SERVICE LINES WITH POST.
 2. WATER SERVICE LINES ARE NOT BEING CONSTRUCTED WITH THIS PROJECT. WATER SERVICE LINES WILL BE CONSTRUCTED BY OWNERS AT TIME OF LOT DEVELOPMENT.

- WATER MAIN, SEWER, AND STORM SEWERAGE:**
1. CONDUIT, INVERT, REPAIRS AND JUMP RESTRAINS DEVICES SHALL BE PER SECTION 8.02.01 AND 8.02.01.1 OF THE CITY OF RAPID CITY STANDARD SPECIFICATIONS.

- GRADING:**
1. THE GRADING PLAN PROVIDES FOR GENERAL GRADING AND BASIC STORM WATER DRAINAGE PATTERNS. THE SITEWORK/ LAND DEVELOPMENT CONTRACTOR OR PERSONAL LOT DEVELOPER SHALL PROVIDE FOR DETAILED GRADING AND APPROPRIATE STORM WATER DRAINAGE AWAY FROM AND AROUND THE IMPROVEMENTS OR CONSTRUCTION OF EACH LOT OR PARCEL OF GRADING.
 2. ALL GRADING FOR STREETS SHALL COMPLY WITH 2007 CITY OF RAPID CITY STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. GRADING OUTSIDE OF THE STREET RIGHT OF WAY SHALL COMPLY WITH THE SAME ELEVATION AND DRAINAGE DIRECTION REQUIREMENTS FOR STREETS.
 3. THE SITE GRADING ELEVATION AND PLACEMENT OF FILL SHALL BE IN ACCORDANCE WITH CURRENT REGULATIONS AND PROCEDURES FOR SURFACE CONSTRUCTION IN RAPID CITY. TO AVOID AS SHOWN ON THESE DRAWINGS THE NECESSARY CONSTRUCTION A FINAL GEOLOGICAL INVESTIGATION SHOULD BE FOR THE PURPOSE OF FUNDAMENTAL DESIGN ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INVESTIGATION. THE ACCURACY OF SOIL AND FOUNDATION CONDITIONS FOR BUILDINGS, STREETS, UTILITIES AND OTHER STRUCTURAL IMPROVEMENTS IS THE RESPONSIBILITY OF THE CONTRACTOR AND NOT THE RESPONSIBILITY OF THE ENGINEER.

- EROSION CONTROL:**
1. ALL AREAS EXCEPT THOSE AREAS TO BE PAVED THAT ARE DISTURBED DURING CONSTRUCTION SHALL BE SOILED, FERTILIZED AND MULCHED FOR EROSION CONTROL, AS DIRECTED BY THE OWNER.
 2. TEMPORARY EROSION CONTROL MEASURES TO BE MAINTAINED UNTIL PERMANENT VEGETATION GROWTH HAS BEEN ACHIEVED.
 3. SEE ADDITIONAL NOTES ON GRADING PLAN.



1. Place 8 mil. polyethylene between concrete and fitting.
2. All thrust blocking shall be 4000-psi class concrete having a minimum 28-day compressive strength of 4000 psi.
3. Thrust blocking shall be cast against undisturbed earth. Thrust block orientation shall be such that the center of the fitting corresponds with the center of the thrust block.
4. The horizontal dimension of the bearing area shall be between 0.8 and 1.25 times the vertical dimension.

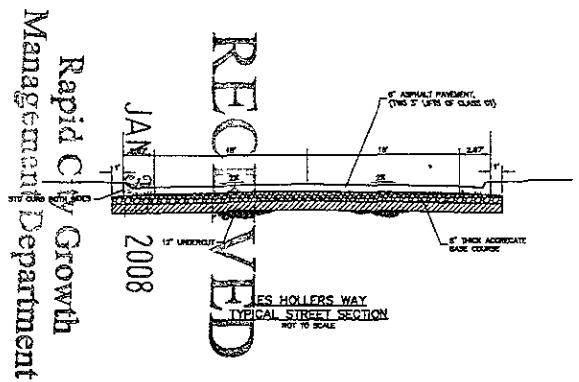
TABLE: Percent of Thrust per 100 psi of Water Pressure (Optimum bearing area is 80% for concrete thrust block based on 150 psi net soil bearing capacity of 1000 pounds per square foot)

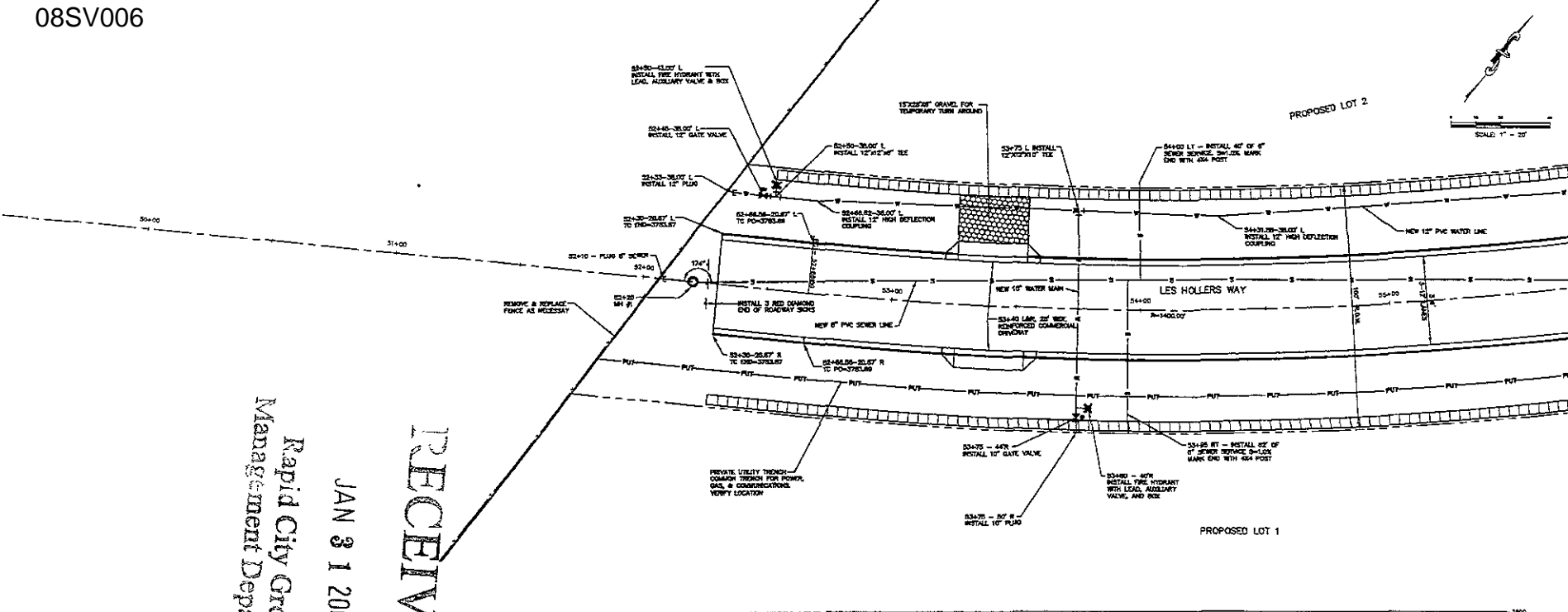
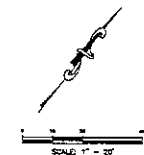
Flow Size	100' Head One & 1/2" Valve	80'Sand	40' Sand	25 1/2' Sand	11 1/4' Sand
4"	2700(2.7)	2600(2.6)	2100(2.1)	1000(1)	900(0.9)
6"	8600(8.6)	8000(8.0)	4300(4.3)	2200(2.2)	1900(1.9)
8"	8600(8.6)	13600(13.7)	7300(7.3)	3700(3.8)	1900(1.9)
10"	14200(14.2)	20500(20.5)	11100(11)	5700(5.7)	2800(2.8)
12"	20200(20.2)	28100(28.1)	15700(15.7)	7900(7.9)	4000(4.0)

THRUST BLOCK DETAILS
NOT TO SCALE

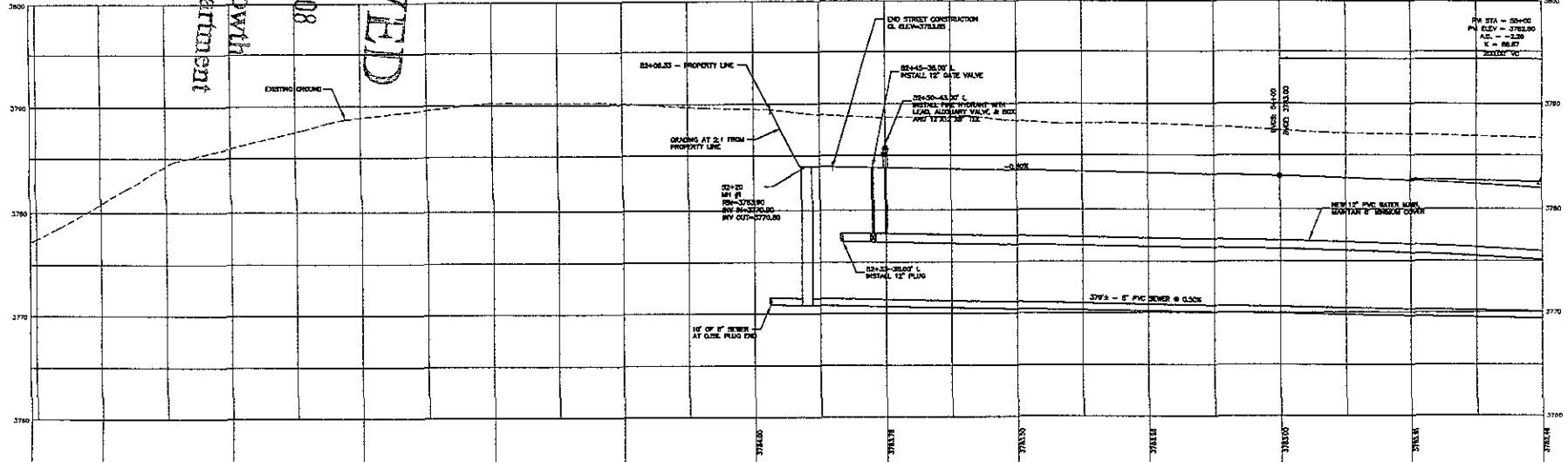
WATER MAIN, SEWER AND STORM SEWERAGE:
All valves, fittings and pipe joints within the specified restrained length of a water or fitting shall be restrained using the ERB, or equal, restraining system. Restraint lengths were calculated based on a soil pressure of 150 psi.

NOM. LINE NUMBER	Type of Restraint Length on		Restrained Length
	Size	Restraint Length	
15"	24" R. both sides	12' x 10' = 8' 1 ft. on branch	15' x 10' 30 ft. on Large Pipe
12"	24" R. both sides	12' x 12' = 8' 1 ft. on branch 12' x 12' = 10' 0 ft. on branch	
Other:			
12"	24" R.	15' x 11 1/2'	2 ft.
12"	24" R.	15' x 22 1/2'	4 ft.
12"	24" R.	15' x 30'	8 ft.





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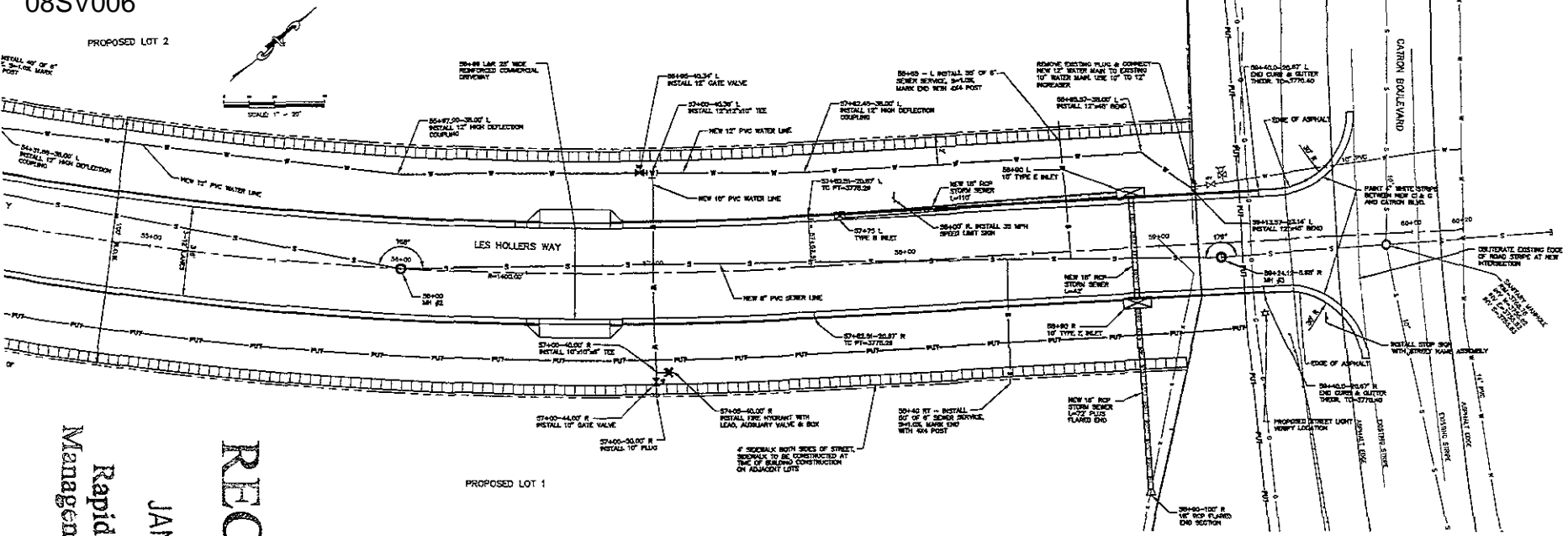


File Number	3029
Location	NE 1/4 SECTION 27 T2N R7E B1W
Surveyed By	DM/AM/2007/2008
Drawn By	2007/2008/2007
Checked By	KD/2008

PROPOSED TLC SUBDIVISION
 PHASE 1 PLATTING
 RAPID CITY, SD

Revision / Date	
Sheet Name	
PLAN AND PROFILE	
Sheet Number	4 of 5

PROPOSED LOT 2

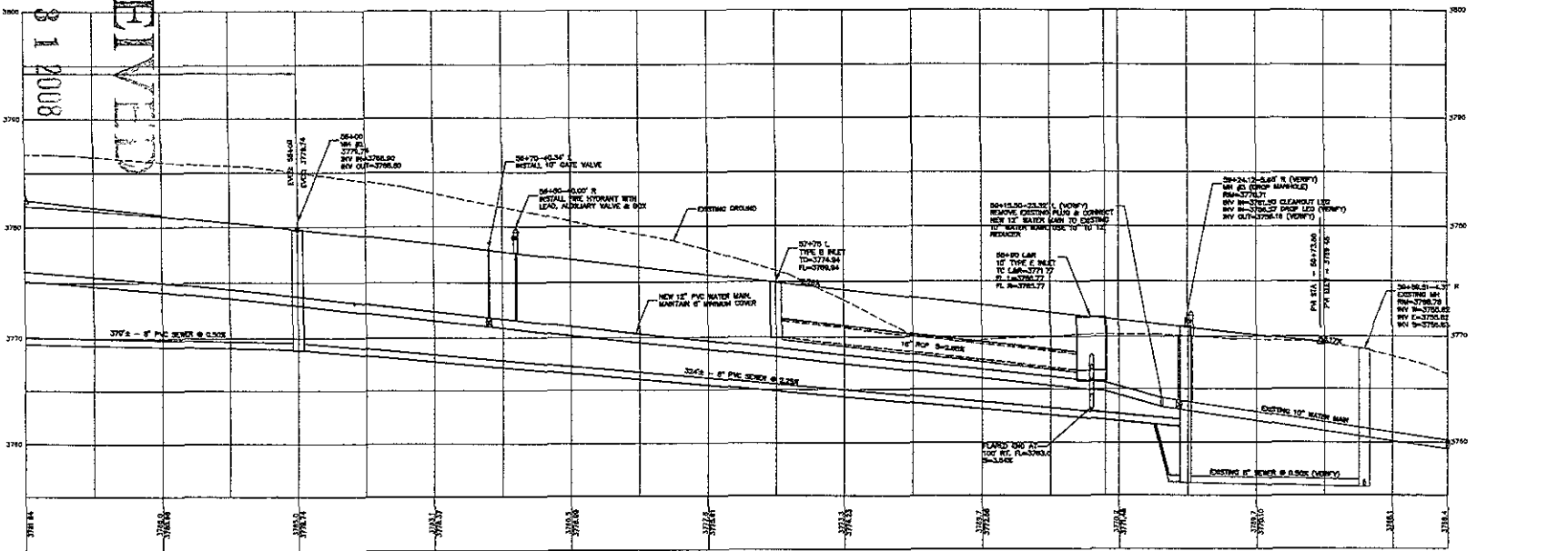


PROPOSED LOT 1

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Rapid City Growth Management Department



File Number	3209
Location	N21/4 SECTION 22
Town, Range, BSM	
Surveyed By	DR/AD/CO
Drawn	DR/AD/CO
Checked By	

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RAPID CITY, SD