

- Regular Asphalt
- Heavy Duty Asphalt
- Concrete Sidewalk
- Proposed Building

**NOTICE:**  
 EXISTING UTILITIES ARE SHOWN ON PLANS FOR THE GUIDANCE OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION, DEPTH, AND CHARACTERISTICS OF ALL UTILITIES SHOWN OR SHOWN INDIRECTLY.

CALL BLUE STAKES BEFORE YOU DIG  
 1-800-662-4111  
 (UTAH STATE ONLY)

**PRIVATE ENGINEER'S NOTICE TO CONTRACTORS**

The Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project. The Engineer is not responsible for any damage to existing utilities, structures, or other property that may be caused by the contractor's operations. The contractor shall defend, indemnify, and hold the engineer harmless from and against all claims, damages, and expenses, including reasonable attorney's fees, arising out of or from the performance of work on this project, excepting for those claims, damages, and expenses for which the engineer is liable.

SEE NOTES ON SHEET C2

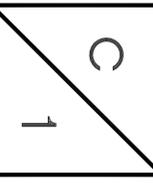
**DEVELOPER:**  
 LEWIS HOMES  
 801-388-0040

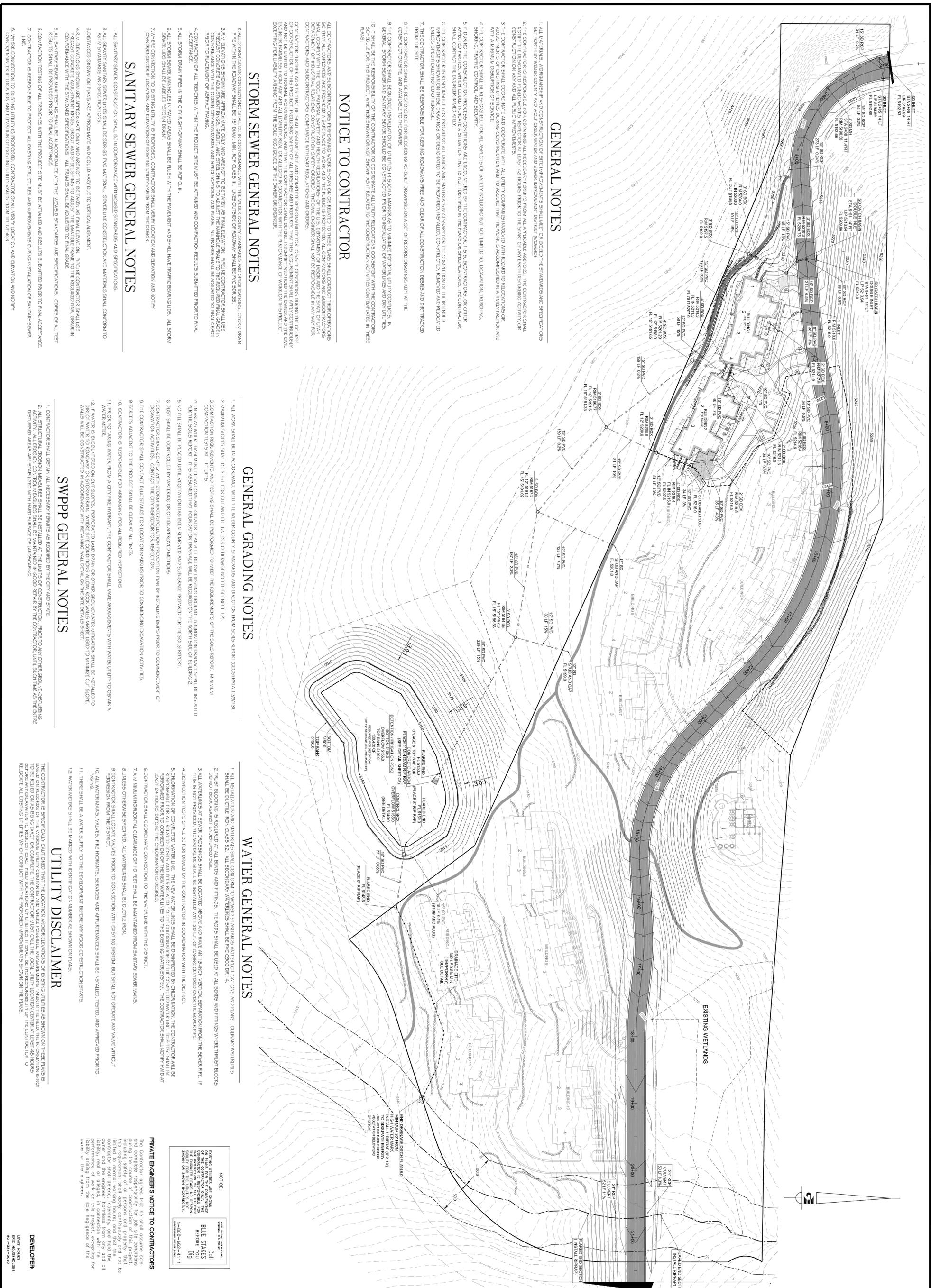
**PLAN AND PROFILE**  
**THE RIDGE**  
**LEWIS HOMES**  
**EDEN, WEBER COUNTY, UTAH**



REVISIONS	
DATE	DESCRIPTION

SCALE:	1" = 30'
DATE:	FEBRUARY 2014
DESIGN:	RC
DRAWN:	DTB
CHECKED:	TN





### GENERAL NOTES

1. ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION OF SITE IMPROVEMENTS SHALL MEET OR EXCEED THE STANDARDS AND SPECIFICATIONS SET FORTH BY WEBER COUNTY AND WOLF CREEK WATER AND SEWER IMPROVEMENT DISTRICT (WCSID).
2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE STATE OF UTAH, WEBER COUNTY, AND THE CITY OF EDEN, UTAH. CONSTRUCTION ON ANY AND ALL PUBLIC IMPROVEMENTS.
3. THE CONTRACTOR SHALL COORDINATE AND CONFORM WITH ALL UTILITY COMPANIES INVOLVED WITH REGARD TO RELOCATIONS OR ADJUSTMENTS OF EXISTING UTILITIES DURING CONSTRUCTION AND TO ASSURE THE WORK IS ACCOMPLISHED IN A TIMELY MANNER AND WITH A MINIMUM DISRUPTION OF SERVICE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING BUT NOT LIMITED TO: EDUCATION, TRAINING, SHOWING, TRAFFIC CONTROL, AND SECURITY.
5. IF DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED BY THE CONTRACTOR, HIS SUBCONTRACTORS, OR OTHER AFFECTED PARTIES, WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
6. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR THE COMPLETION OF THE METHODS AND IMPROVEMENTS SHOWN ON THESE DRAWINGS OR DESIGNATED TO BE PROVIDED. INSTALLED CONSTRUCTION, REMOVED AND RELOCATED UTILITIES SPECIFICALLY NOTED OTHERWISE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING AS BUILT DRAWINGS ON A SET OF RECORD DRAWINGS LEFT AT THE CONSTRUCTION SITE AND AVAILABLE TO THE OWNER.
9. THE CONTRACTOR SHALL SECURE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO MINIMIZE POTENTIAL UTILITY CONFLICTS. IN GENERAL, STORM SEWER AND SANITARY SEWER SHOULD BE CONSTRUCTED PRIOR TO INSTALLATION OF WATER LINES AND OTHER UTILITIES.
10. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL UTILITY RELOCATIONS CONSISTENT WITH THE CONTRACTORS OBLIGATION FOR THIS PROJECT. THESE SHALL SHOW ON AND SHOWN AS IT RELATES TO THE CONSTRUCTION ACTIVITIES CONTAINED IN THESE PLANS.

### NOTICE TO CONTRACTOR

ALL CONTRACTORS AND SUBCONTRACTORS performing work shown on or related to these plans shall conduct their operations so that ALL UTILITIES ARE PROTECTED. A SAFE PRACTICE TO WORK AND THE PUBLIC IS PROTECTED. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH THE OCCUPATIONAL SAFETY AND HEALTH REGULATIONS OF THE U.S. DEPARTMENT OF LABOR AND THE STATE OF UTAH DEPARTMENT OF INDUSTRIAL RELATIONS CONSTRUCTION SAFETY ORDERS. THE CIVIL ENGINEER SHALL NOT BE RESPONSIBLE IN ANY MANNER FOR CONTRACTORS AND SUBCONTRACTORS COMPLIANCE WITH SAID REGULATIONS AND ORDERS.

CONTRACTOR FURTHER AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB-SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION AND THAT HE SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE CITY OF EDEN, UTAH, AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL OBTAIN, INDUSTRY AND HOLD THE OWNER AND THE CIVIL ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, INCLUDING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.

### STORM SEWER GENERAL NOTES

1. ALL STORM SEWER CONNECTIONS SHALL BE IN CONFORMANCE WITH THE WEBER COUNTY STANDARDS AND SPECIFICATIONS. STORM SEWER PIPES WITHIN THE ROADWAY SHALL BE 15" DIAM. MIN. RCP CLASS III. LINES OUTSIDE OF ROADWAY SHALL BE RCP 36".
3. MAN DEPRESSIONS SHALL BE APPROXIMATE 24" DEEP AND ARE NOT TO BE TAKEN AS FINAL ELEVATION. PRIVATE CONTRACTOR SHALL SET PRECAST CONCRETE ADJUSTABLE RINGS, GROUT, AND STEEL SHIMMS TO ADJUST THE MANHOLE FRAME TO THE REQUIRED FINAL GRADE IN CONFORMANCE WITH THE OGDEN CITY STANDARDS AND SPECIFICATIONS AND PLANS. ALL FRAMES SHALL BE ADJUSTED TO FINAL GRADE PRIOR TO PLACEMENT OF ASPHALT PAVING.
4. COMPACTION OF ALL TRENCHES WITHIN THE PROJECT SITE MUST BE ATTAINED AND COMPACTION RESULTS SUBMITTED PRIOR TO FINAL ACCEPTANCE.
5. ALL STORM DRAIN PIPES IN THE CITY RIGHT-OF-WAY SHALL BE RCP C-111.
6. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH THE PAVEMENT AND SHALL HAVE TRAFFIC BEARING LIDS. ALL STORM SEWER LIDS SHALL BE GRADE TO 5" OVER FINISH.
7. WHERE CONNECTION TO EXISTING UTILITY IS PROPOSED, CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION AND NOTIFY THE OWNER/ENGINEER OF LOCATION AND ELEVATION OF EXISTING UTILITY VARIES FROM THE DESIGN.

### SANITARY SEWER GENERAL NOTES

1. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN CONFORMANCE WITH WEBCOED STANDARDS AND SPECIFICATIONS.
2. ALL GRAVITY SANITARY SEWER LINES SHALL BE 30" RCP MATERIAL. SEWER LINE CONSTRUCTION AND MATERIALS SHALL CONFORM TO ASTM STANDARDS AND SPECIFICATIONS.
3. DISTANCES SHOWN ON PLANS ARE APPROXIMATE AND COULD VARY DUE TO VERTICAL ALIGNMENT.
4. MAN DEPRESSIONS SHOWN ARE APPROXIMATE ONLY AND ARE NOT TO BE TAKEN AS FINAL ELEVATION. PRIVATE CONTRACTOR SHALL SET PRECAST CONCRETE ADJUSTABLE RINGS, GROUT, AND STEEL SHIMMS TO ADJUST THE MANHOLE FRAME TO THE REQUIRED FINAL GRADE IN CONFORMANCE WITH THE STANDARD SPECIFICATIONS. ALL FRAMES SHALL BE ADJUSTED TO FINAL GRADE.
5. ALL SANITARY SEWER MAN DEPRESSIONS SHALL BE IN ACCORDANCE WITH THE DESIGN STANDARDS AND SPECIFICATIONS. COMING OF ALL TEST RESULTS SHALL BE PROVIDED PRIOR TO FINAL ACCEPTANCE.
6. COMPACTION TESTING OF ALL TRENCHES WITH THE PROJECT SITE MUST BE ATTAINED AND RESULTS SUBMITTED PRIOR TO FINAL ACCEPTANCE.
7. CONTRACTOR IS RESPONSIBLE TO PROTECT ALL EXISTING STRUCTURES AND IMPROVEMENTS DURING INSTALLATION OF SANITARY SEWER LINE.
8. WHERE CONNECTION TO EXISTING UTILITY IS PROPOSED, CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION AND NOTIFY THE OWNER/ENGINEER OF LOCATION AND ELEVATION OF EXISTING UTILITY VARIES FROM THE DESIGN.

### GENERAL GRADING NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE WEBER COUNTY STANDARDS AND SPECIFICATIONS FROM SOILS REPORT (GEOSTRATA 12941 31).
2. MAXIMUM SLOPES SHALL BE 2:5:1 FOR CUT AND 1:1 UNLESS OTHERWISE NOTED (SEE NOTE 12).
3. COMPACTION REQUIREMENTS AND TESTING SHALL BE FURNISHED TO MEET THE REQUIREMENTS OF THE SOILS REPORT. MINIMUM COMPACTION TESTS AT 1' INTERVALS.
4. IN AREAS WHERE BASEMENT ELEVATIONS ARE GREATER THAN 4' FT BELOW EXISTING GROUND - FOUNDATION DRAINAGE SHALL BE INSTALLED PER THE SOILS REPORT. IT IS ASSUMED THAT FOUNDATION DRAINAGE WILL BE REQUIRED ON THE NORTH SIDE OF BUILDING 2.
5. NO FILL SHALL BE PLACED UNTIL VEGETATION HAS BEEN REMOVED AND SUB-GRADE PREPARED PER THE SOILS REPORT.
6. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS.
7. CONTRACTOR SHALL COMPLY WITH STORM WATER POLLUTION PREVENTION PLAN BY INSTALLING BARRIERS PRIOR TO COMMENCEMENT OF DEMONSTRATION ACTIVITIES. CONTACT THE CITY INSPECTOR FOR INSPECTION.
8. THE CONTRACTOR SHALL CONTACT BLUE STAKES FOR LOCATION MARKING PRIOR TO COMMENCING DEMONSTRATION ACTIVITIES.
9. STREETS ADJACENT TO THE PROJECT SHALL BE CLEAN AT ALL TIMES.
10. CONTRACTOR IS RESPONSIBLE FOR ARRANGING FOR ALL REQUIRED INSPECTIONS.
11. BEFORE TO PLACING WATER FROM A CITY FIRE HYDRANT, THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH WATER UTILITY TO OBTAIN A WATER METER.
12. IF WATER IS ENCOUNTERED ON CUT SLOPES, PROPOSED DRAIN OR OTHER DRAINAGE WATER MITIGATION SHALL BE INSTALLED TO WALLS WILL BE CONSTRUCTED IN ACCORDANCE WITH RETAINING WALL DETAIL ON THE SITE DETAILS SHEET.

### SWPPP GENERAL NOTES

1. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AS REQUIRED BY THE CITY AND STATE.
2. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AT THE LIMITS OF CONSTRUCTION, PRIOR TO ANY OTHER GROUND DISTURBING ACTIVITIES. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

### WATER GENERAL NOTES

1. ALL INSTALLATION AND MATERIALS SHALL CONFORM TO WEBCOED STANDARDS AND SPECIFICATIONS AND PLANS. CLIMATE WATERVALVES SHALL BE DUCTILE IRON CLASS 52. ALL SECONDARY WATERVALVES SHALL BE RCP C900 DR 14.
2. FIRST BLOCKING IS REQUIRED AT ALL BENDS AND FITTINGS. THE ROADS SHALL BE LEAD AT ALL BENDS AND FITTINGS WHERE THE FIRST BLOCKS DO NOT BUREAU AGAINST UNDISTURBED SOIL.
3. ALL WATERBARS AT SEWER CROSSINGS SHALL BE LOCATED UPDRA AND HAVE ALL 4" AIRLIFT VERTICAL SEPARATION FROM THE SEWER THE. IF THIS IS NOT PROVIDED, THE WATERBAR SHALL BE INSTALLED WITH 20" LIFT OF CASING CENTERED OVER THE SEWER PIPE.
4. DIRECTION TESTS SHALL BE PERFORMED BY THE CONTRACTOR IN COORDINATION WITH THE DISTRICT.
5. COMPACTION OF COMPLETED WATER LINE. THE NEW WATER LINES SHALL BE DISINFECTED BY CHLORINATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL RELATED COSTS AND FEES RELATED TO THE CHLORINATION OF THE COMPLETED WATER LINE. THIS TEST SHALL BE PERFORMED PRIOR TO THE FINAL CONNECTION OF THE WATER LINES TO THE EXISTING WATER SYSTEM. THE CONTRACTOR SHALL NOTIFY THE DISTRICT 48 HOURS BEFORE THE CHLORINATION IS BEGUN.
6. CONTRACTOR SHALL COORDINATE CONNECTION TO THE WATER LINE WITH THE DISTRICT.
7. A MINIMUM HORIZONTAL CLEARANCE OF 10 FEET SHALL BE MAINTAINED FROM SANITARY SEWER MAINS.
8. UNLESS OTHERWISE SPECIFIED, ALL WATERBARS SHALL BE DUCTILE IRON.
9. CONTRACTOR SHALL LOCKET VALVES PRIOR TO CONNECTION WITH EXISTING SYSTEM, BUT SHALL NOT OPERATE ANY VALVE WITHOUT PERMISSION FROM THE DISTRICT.
10. ALL WATER MAINS, VALVES, FIRE HYDRANTS, SERVICES AND APPURTENANCES SHALL BE INSTALLED, TESTED, AND APPROVED PRIOR TO PAVING.
11. THERE SHALL BE A WATER SUPPLY TO THE DEVELOPER BEFORE ANY WOOD CONSTRUCTION STARTS.
12. WATER METERS SHALL BE MARGED WITH IDENTIFICATION NUMBER AS SHOWN ON PLANS.

### UTILITY DISCLAIMER

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATIONS OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS 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. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION OR CONSTRUCTION ACTIVITIES BEGIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PROTECTING ALL EXISTING UTILITIES WHICH INTERFERE WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

**NOTICE:**  
EXISTING UTILITIES ARE SHOWN ON THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PROTECTING ALL EXISTING UTILITIES WHICH INTERFERE WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.

**BLUE STAKES BEFORE YOU DIG**

1-801-662-4111  
WWW.BLUESTAKES.COM

### PRIVATE ENGINEER'S NOTICE TO CONTRACTORS

The Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project. This requirement shall apply continuously and not be limited to normal working hours, and that the contractor shall be responsible for the safety of all workers on the project. The engineer, in connection with the performance of work on this project, excepting for the design of the project, shall not be responsible for the safety of the contractor or the engineer.

**DEVELOPER:**  
LEIGH WILSON  
EPC, HOUSING/RESIDENTIAL  
801-383-0400

**GARDNER ENGINEERING**  
CIVIL • LAND PLANNING  
MUNICIPAL • LAND SURVEYING

5150 SOUTH 375 EAST OGDEN, UT  
OFFICE: 801.476.0202 FAX: 801.476.0066

OVERALL GRADING AND DRAINAGE

THE RIDGE  
LEWIS HOMES

EDEN, WEBER COUNTY, UTAH

REGISTERED PROFESSIONAL ENGINEER  
RYAN A. CHRISTENSEN  
STATE OF UTAH

REVISIONS	
DATE	DESCRIPTION

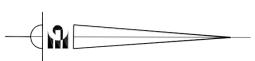
DWG: \_\_\_\_\_

SCALE: 1" = 60'
DATE: FEBRUARY 2014
DESIGN: RC
DRAWN: DTB
CHECKED: TN

C  
2



- STORM DRAIN KEY NOTES**
- ① 1" INLET - RIM 5218.3 FL 5216.3
  - ② 8" SD 15 LF @ 0.5%
  - ③ 1" INLET - RIM 5218.3 FL 5216.2
  - ④ 8" SD 14 LF @ 9%
  - ⑤ 1" INLET - RIM 5219.5 FL 5216.7
  - ⑥ 8" SD 18 LF @ 0.5%
  - ⑦ 1" INLET - RIM 5219.3 FL 5216.8
  - ⑧ 8" SD 16 LF @ 0.5%
  - ⑨ 1" INLET - RIM 5219.3 FL 5216.9



SEE NOTES ON SHEET C2

**NOTICE:**  
 EXISTING UTILITIES ARE SHOWN ON THIS SHEET FOR INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES SHOWN ON THIS SHEET BY SHOWN BY THE UTILITIES DIVISION OF SALT LAKE COUNTY.  
 1-800-662-4111  
 BLUE STAKES BEFORE DIG

**PRIVATE ENGINEERS NOTICE TO CONTRACTORS**

The Contractor agrees that he shall assume sole responsibility for the safety of all persons and property during the course of construction of this project. This requirement shall apply continuously and not be limited to any specific phase of the project. The contractor shall defend, indemnify, and hold the owner and the engineer harmless from any and all claims, damages, losses, and expenses, including reasonable attorney's fees, arising from or on account of any liability arising from the sole negligence of the owner or the engineer.

**DEVELOPER:**

LEWIS HOMES  
 500 WEST 2000 SOUTH  
 SALT LAKE CITY, UT 84119

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**GARDNER ENGINEERING**  
 CIVIL • LAND PLANNING  
 MUNICIPAL • LAND SURVEYING  
 5150 SOUTH 375 EAST OGDEN, UT  
 OFFICE: 801.476.0202 FAX: 801.476.0066

UTILITY PLAN (1)  
 THE RIDGE  
 LEWIS HOMES  
 EDEN, WEBER COUNTY, UTAH

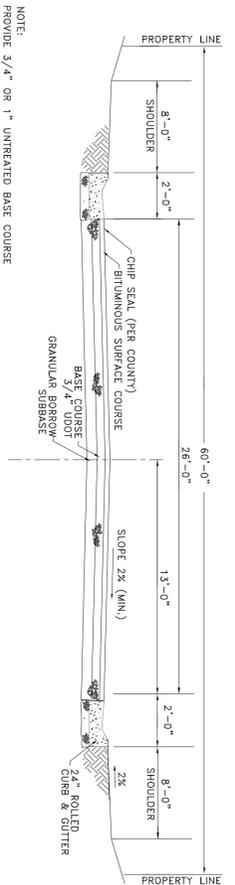


REVISIONS	
DATE	DESCRIPTION

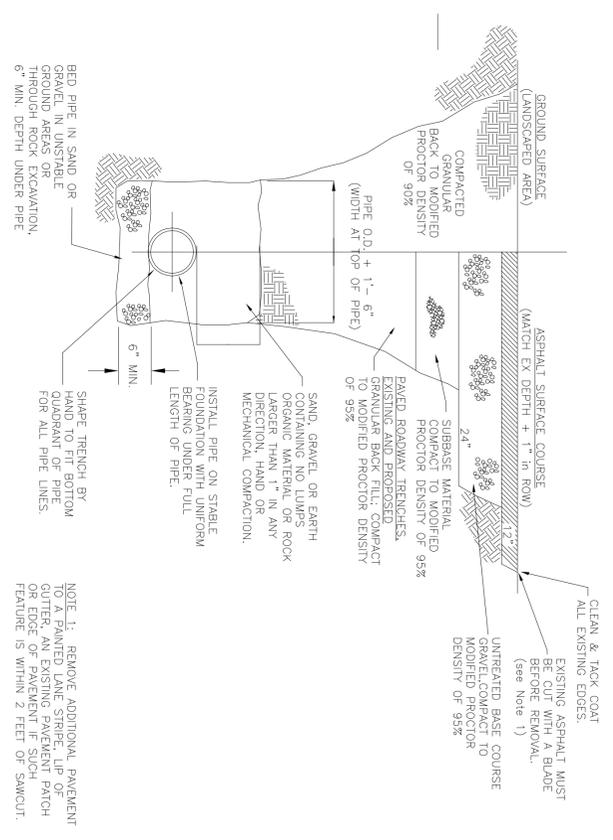
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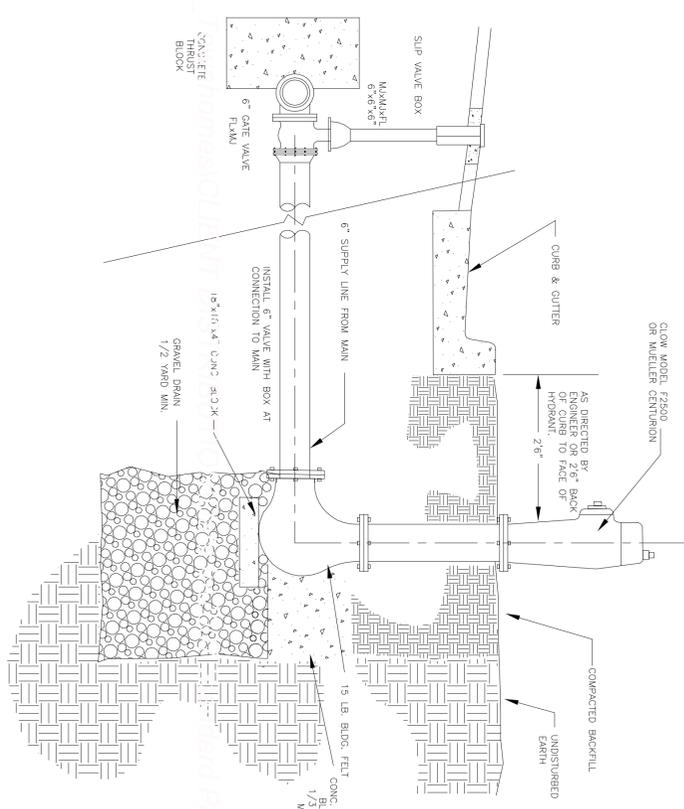




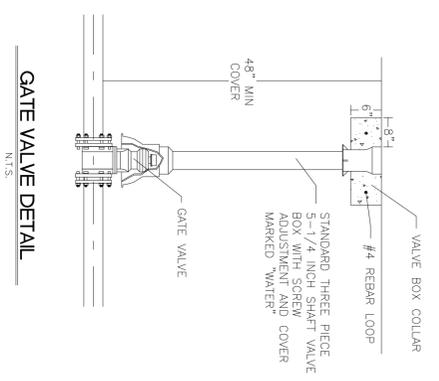
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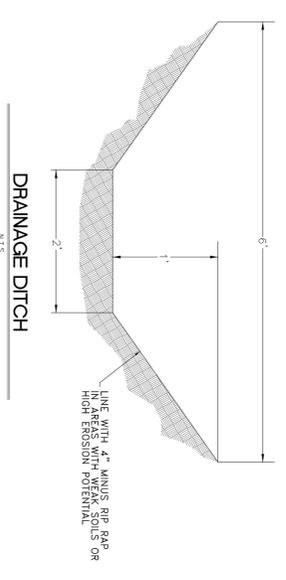
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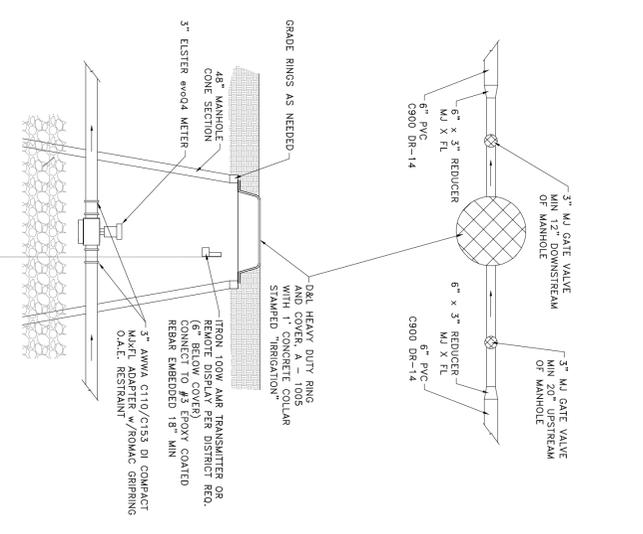
TYPICAL WATER HYDRANT INSTALLATION DETAIL  
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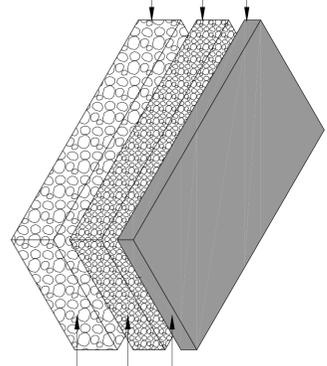
GATE VALVE DETAIL  
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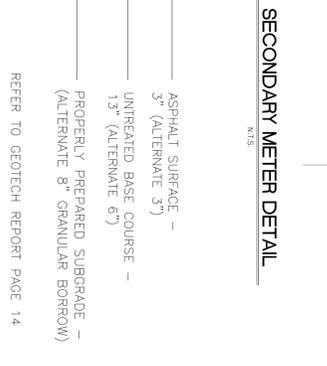
DRAINAGE DITCH  
N.T.S.



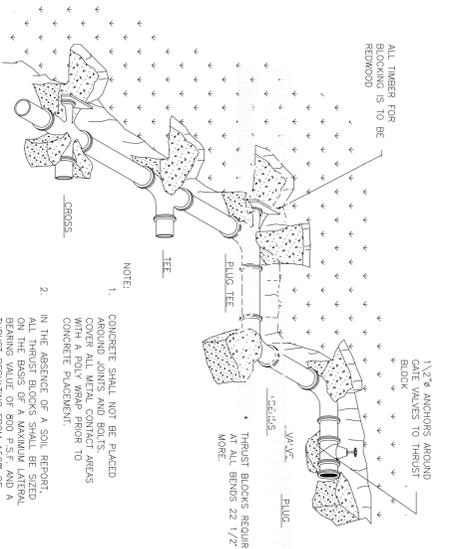
SECONDARY METER DETAIL  
N.T.S.



TYPICAL HEAVY DUTY ASPHALT PAVING  
N.T.S.



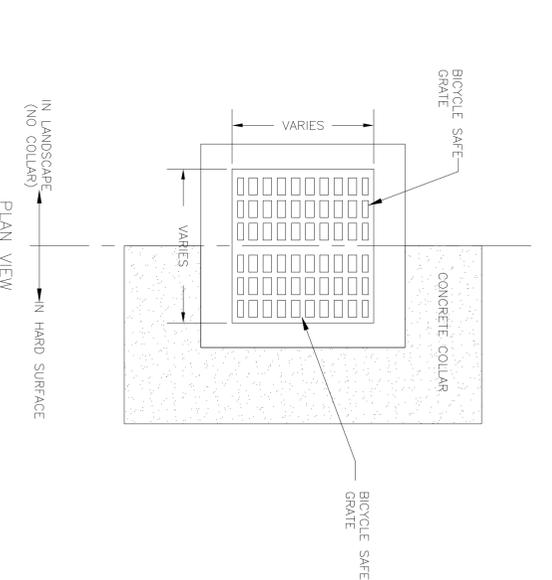
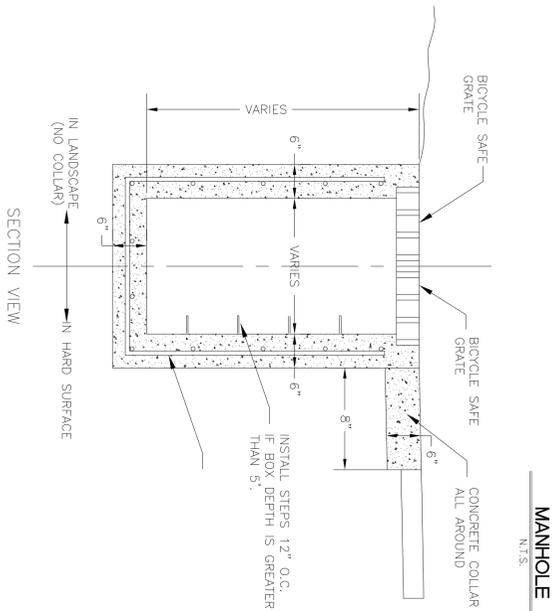
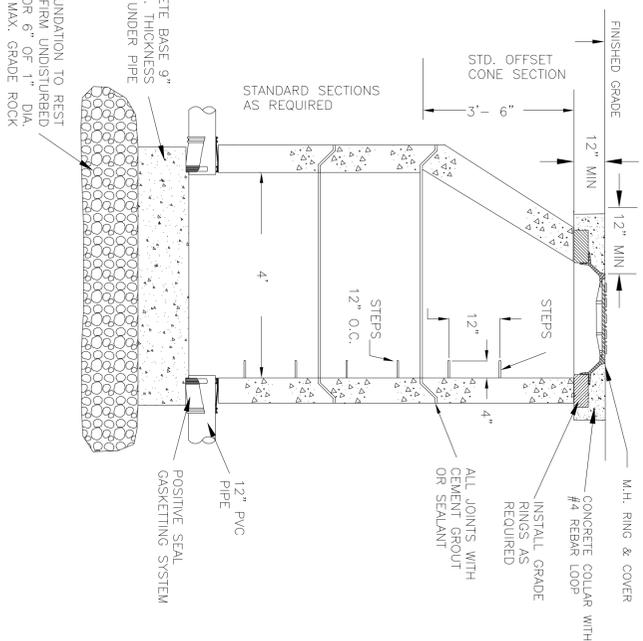
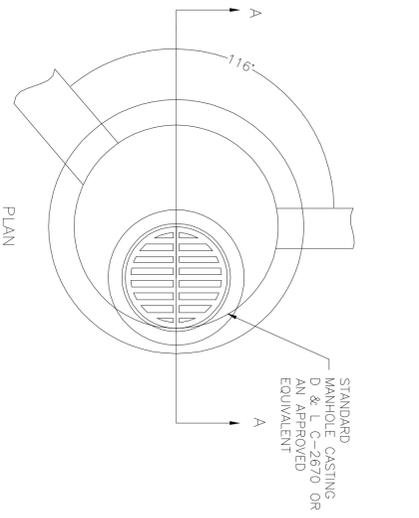
TYPICAL REGULAR ASPHALT PAVING  
N.T.S.



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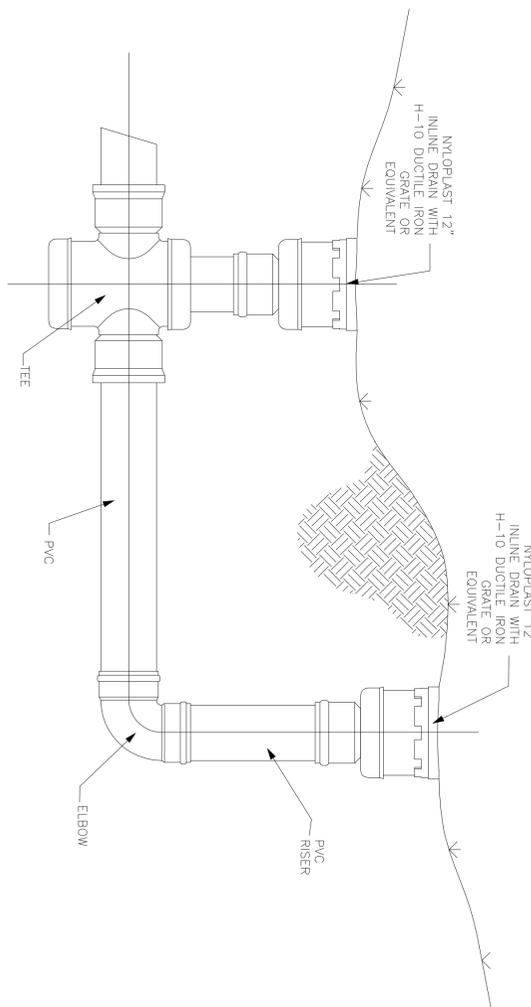
TABLE OF BEARING AREAS IN SQ. FT FOR CONCRETE THRUST BLOCKING

SIZE	90° BENDS	TEES	GATE	HEAD	REVERSE	TRANSVERSE
	ENDS	ENDS	ENDS	ENDS	ENDS	ENDS
3	1.0	0.0	0.3	0	0.7	0.7
4	1.8	1.0	0.3	0	2.3	1.3
6	3.0	1.8	0.3	0	4.0	2.3
8	4.2	3.0	0.3	0	5.7	3.3
10	5.4	4.2	0.3	0	7.4	4.3
12	6.6	5.4	0.3	0	9.1	5.3
14	7.8	6.6	0.3	0	10.8	6.3
16	9.0	7.8	0.3	0	12.5	7.3
18	10.2	9.0	0.3	0	14.2	8.3
20	11.4	10.2	0.3	0	15.9	9.3
22	12.6	11.4	0.3	0	17.6	10.3
24	13.8	12.6	0.3	0	19.3	11.3
26	15.0	13.8	0.3	0	21.0	12.3
28	16.2	15.0	0.3	0	22.7	13.3
30	17.4	16.2	0.3	0	24.4	14.3
32	18.6	17.4	0.3	0	26.1	15.3
34	19.8	18.6	0.3	0	27.8	16.3
36	21.0	19.8	0.3	0	29.5	17.3
38	22.2	21.0	0.3	0	31.2	18.3
40	23.4	22.2	0.3	0	32.9	19.3
42	24.6	23.4	0.3	0	34.6	20.3
44	25.8	24.6	0.3	0	36.3	21.3
46	27.0	25.8	0.3	0	38.0	22.3
48	28.2	27.0	0.3	0	39.7	23.3
50	29.4	28.2	0.3	0	41.4	24.3
52	30.6	29.4	0.3	0	43.1	25.3
54	31.8	30.6	0.3	0	44.8	26.3
56	33.0	31.8	0.3	0	46.5	27.3
58	34.2	33.0	0.3	0	48.2	28.3
60	35.4	34.2	0.3	0	49.9	29.3
62	36.6	35.4	0.3	0	51.6	30.3
64	37.8	36.6	0.3	0	53.3	31.3
66	39.0	37.8	0.3	0	55.0	32.3
68	40.2	39.0	0.3	0	56.7	33.3
70	41.4	40.2	0.3	0	58.4	34.3
72	42.6	41.4	0.3	0	60.1	35.3
74	43.8	42.6	0.3	0	61.8	36.3
76	45.0	43.8	0.3	0	63.5	37.3
78	46.2	45.0	0.3	0	65.2	38.3
80	47.4	46.2	0.3	0	66.9	39.3
82	48.6	47.4	0.3	0	68.6	40.3
84	49.8	48.6	0.3	0	70.3	41.3
86	51.0	49.8	0.3	0	72.0	42.3
88	52.2	51.0	0.3	0	73.7	43.3
90	53.4	52.2	0.3	0	75.4	44.3
92	54.6	53.4	0.3	0	77.1	45.3
94	55.8	54.6	0.3	0	78.8	46.3
96	57.0	55.8	0.3	0	80.5	47.3
98	58.2	57.0	0.3	0	82.2	48.3
100	59.4	58.2	0.3	0	83.9	49.3
102	60.6	59.4	0.3	0	85.6	50.3
104	61.8	60.6	0.3	0	87.3	51.3
106	63.0	61.8	0.3	0	89.0	52.3
108	64.2	63.0	0.3	0	90.7	53.3
110	65.4	64.2	0.3	0	92.4	54.3
112	66.6	65.4	0.3	0	94.1	55.3
114	67.8	66.6	0.3	0	95.8	56.3
116	69.0	67.8	0.3	0	97.5	57.3
118	70.2	69.0	0.3	0	99.2	58.3
120	71.4	70.2	0.3	0	100.9	59.3
122	72.6	71.4	0.3	0	102.6	60.3
124	73.8	72.6	0.3	0	104.3	61.3
126	75.0	73.8	0.3	0	106.0	62.3
128	76.2	75.0	0.3	0	107.7	63.3
130	77.4	76.2	0.3	0	109.4	64.3
132	78.6	77.4	0.3	0	111.1	65.3
134	79.8	78.6	0.3	0	112.8	66.3
136	81.0	79.8	0.3	0	114.5	67.3
138	82.2	81.0	0.3	0	116.2	68.3
140	83.4	82.2	0.3	0	117.9	69.3
142	84.6	83.4	0.3	0	119.6	70.3
144	85.8	84.6	0.3	0	121.3	71.3
146	87.0	85.8	0.3	0	123.0	72.3
148	88.2	87.0	0.3	0	124.7	73.3
150	89.4	88.2	0.3	0	126.4	74.3
152	90.6	89.4	0.3	0	128.1	75.3
154	91.8	90.6	0.3	0	129.8	76.3
156	93.0	91.8	0.3	0	131.5	77.3
158	94.2	93.0	0.3	0	133.2	78.3
160	95.4	94.2	0.3	0	134.9	79.3
162	96.6	95.4	0.3	0	136.6	80.3
164	97.8	96.6	0.3	0	138.3	81.3
166	99.0	97.8	0.3	0	140.0	82.3
168	100.2	99.0	0.3	0	141.7	83.3
170	101.4	100.2	0.3	0	143.4	84.3
172	102.6	101.4	0.3	0	145.1	85.3
174	103.8	102.6	0.3	0	146.8	86.3
176	105.0	103.8	0.3	0	148.5	87.3
178	106.2	105.0	0.3	0	150.2	88.3
180	107.4	106.2	0.3	0	151.9	89.3
182	108.6	107.4	0.3	0	153.6	90.3
184	109.8	108.6	0.3	0	155.3	91.3
186	111.0	109.8	0.3	0	157.0	92.3
188	112.2	111.0	0.3	0	158.7	93.3
190	113.4	112.2	0.3	0	160.4	94.3
192	114.6	113.4	0.3	0	162.1	95.3
194	115.8	114.6	0.3	0	163.8	96.3
196	117.0	115.8	0.3	0	165.5	97.3
198	118.2	117.0	0.3	0	167.2	98.3
200	119.4	118.2	0.3	0	168.9	99.3
202	120.6	119.4	0.3	0	170.6	100.3
204	121.8	120.6	0.3	0	172.3	101.3
206	123.0	121.8	0.3	0	174.0	102.3
208	124.2	123.0	0.3	0	175.7	103.3
210	125.4	124.2	0.3	0	177.4	104.3
212	126.6	125.4	0.3	0	179.1	105.3
214	127.8	126.6	0.3	0	180.8	106.3
216	129.0	127.8	0.3	0	182.5	107.3
218	130.2	129.0	0.3	0	184.2	108.3
220	131.4	130.2	0.3	0	185.9	109.3
222	132.6	131.4	0.3	0	187.6	110.3
224	133.8	132.6	0.3	0	189.3	111.3
226	135.0	133.8	0.3	0	191.0	112.3
228	136.2	135.0	0.3	0	192.7	113.3
230	137.4	136.2	0.3	0	194.4	114.3
232	138.6	137.4	0.3	0	196.1	115.3
234	139.8	138.6	0.3	0	197.8	116.3
236	141.0	139.8	0.3	0	199.5	117.3
238	142.2	141.0	0.3	0	201.2	118.3
240	143.4	142.2	0.3	0	202.9	119.3
242	144.6	143.4	0.3	0	204.6	120.3
244	145.8	144.6	0.3	0	206.3	121.3
246	147.0	145.8	0.3	0	208.0	122.3
248	148.2	147.0	0.3	0	209.7	123.3
250	149.4	148.2	0.3	0	211.4	124.3
252	150.6	149.4	0.3	0	213.1	125.3
254	151.8	150.6	0.3	0	214.8	126.3
256	153.0	151.8	0.3	0	216.5	127.3
258	154.2	153.0	0.3	0	218.2	128.3
260	155.4	154.2	0.3	0	219.9	129.3
262	156.6	155.4	0.3	0	221.6	130.3
264	157.8	156.6	0.3	0	223.3	131.3
266	159.0	157.8	0.3	0	225.0	132.3
268	160.2	159.0	0.3	0	226.7	133.3
270	161.4	160.2	0.3	0	228.4	134.3
272	162.6	161.4	0.3	0	230.1	135.3
274	163.8	162.6	0.3	0	231.8	136.3
276	165.0	163.8	0.3	0	233.5	137.3
278	166.2	165.0	0.3	0	235.2	138.3
280	167.4	166.2	0.3	0	236.9	139.3
282	168.6	167.4	0.3	0	238.6	140.3
284	169.8	168.6	0.3	0	240.3	141.3
286	171.0	169.8	0.3	0	242.0	142.3
288	172.2	171.0	0.3	0	243.7	143.3
290	173.4	172.2	0.3	0	245.4	144.3
292	174.6	173.4	0.3	0		

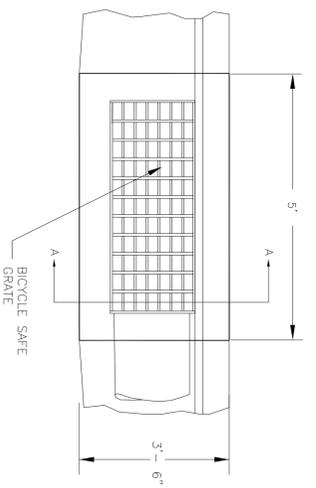


TYPICAL STORM DRAIN BOX  
N.T.S.

TYPICAL STORM DRAIN BOX  
N.T.S.

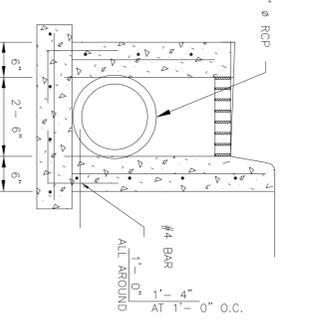


1" INLET - INLINE DRAIN BOX  
N.T.S.

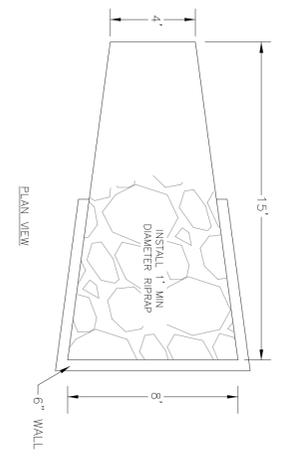


PLAN

TYPICAL 2'-6" X 4' CATCH BASIN  
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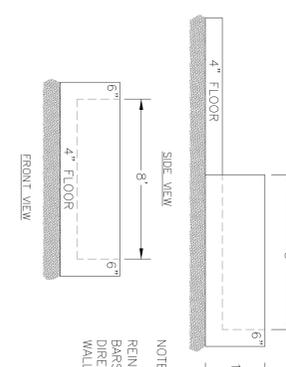


SECTION A-A



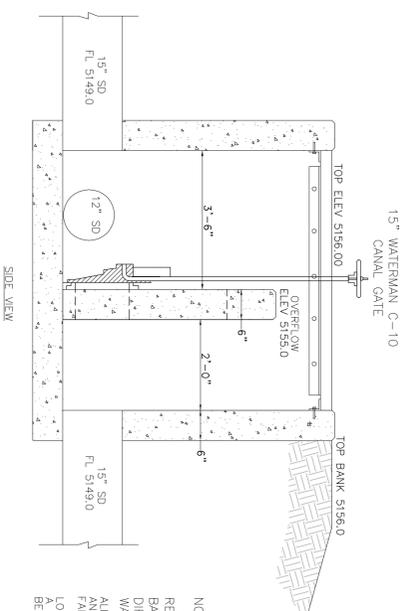
PLAN VIEW

CONCRETE APRON DETAIL  
N.T.S.



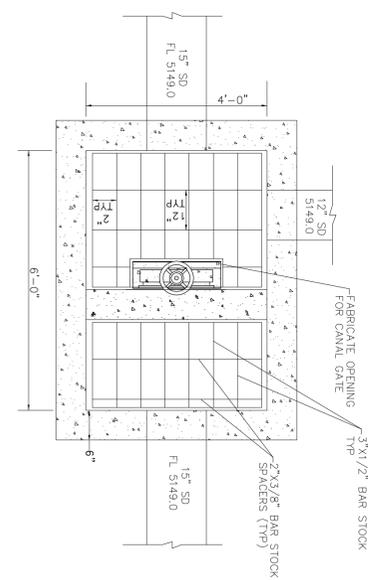
FRONT VIEW

NOTE:  
REINFORCE BOX WITH #4 BARS @12" O.C. BOTH DIRECTIONS AT CENTER OF WALLS AND FLOORS



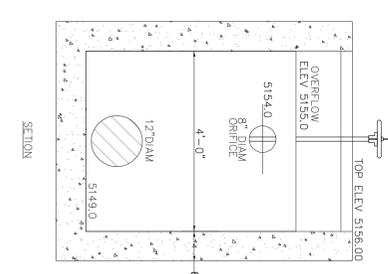
SIDE VIEW

NOTE:  
REINFORCE BOX WITH #4 BARS @12" O.C. BOTH DIRECTIONS AT CENTER OF WALLS AND FLOORS.  
ALL GRATES, ANGLE IRON AND PLATES TO BE GALVANIZED FOLLOWING FABRICATION.  
LONGITUDINAL BARS ON GRATE SHALL HAVE A MAX 2" SPACING BETWEEN.



TOP VIEW

CONTROL STRUCTURE DETAIL  
N.T.S.



SECTION

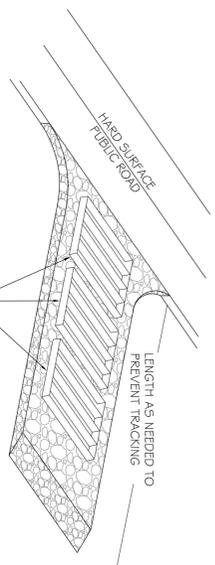
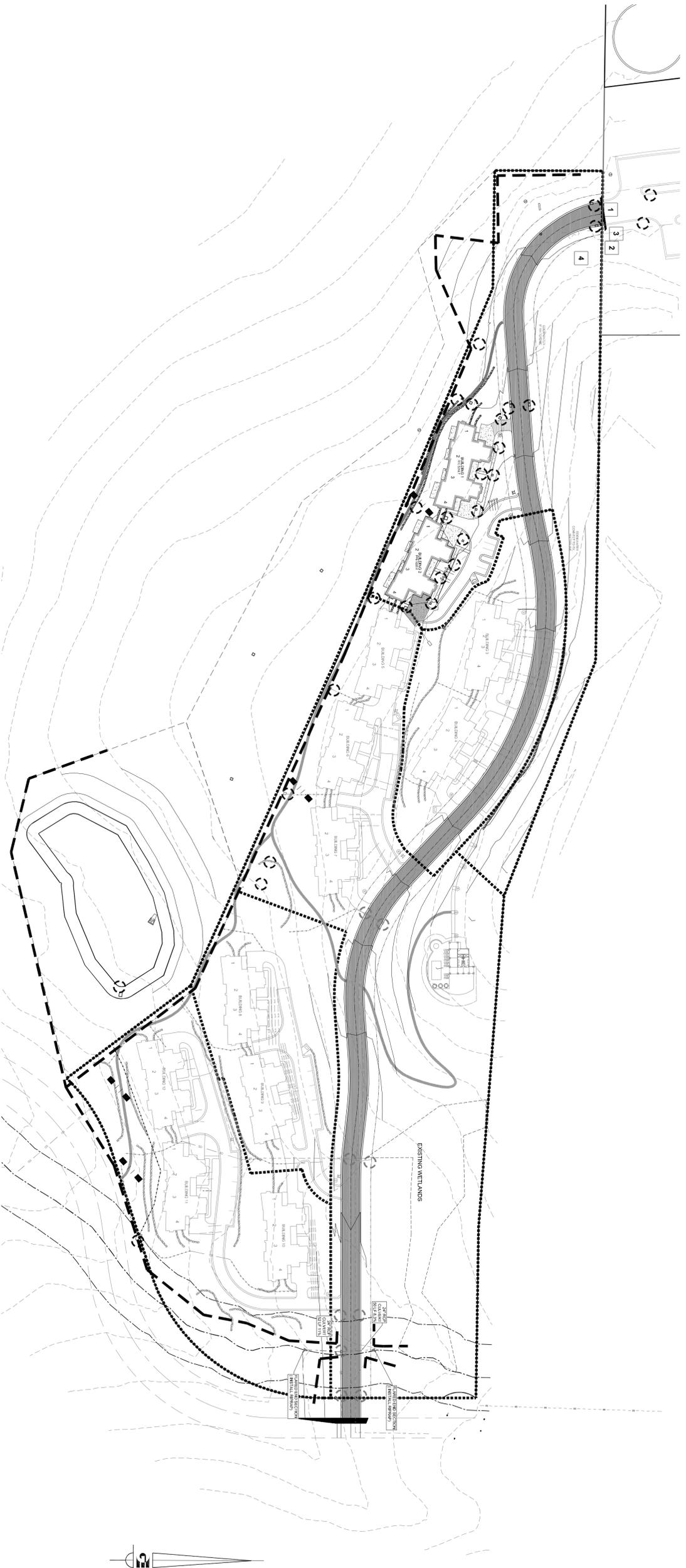


REVISIONS	
DATE	DESCRIPTION

DWG: \_\_\_\_\_

SCALE:	N.T.S.
DATE:	FEBRUARY 2014
DESIGN:	RC
DRAWN:	DTB
CHECKED:	TN

DETAILS - 2  
THE RIDGE  
LEWIS HOMES  
EDEN, WEBER COUNTY, UTAH

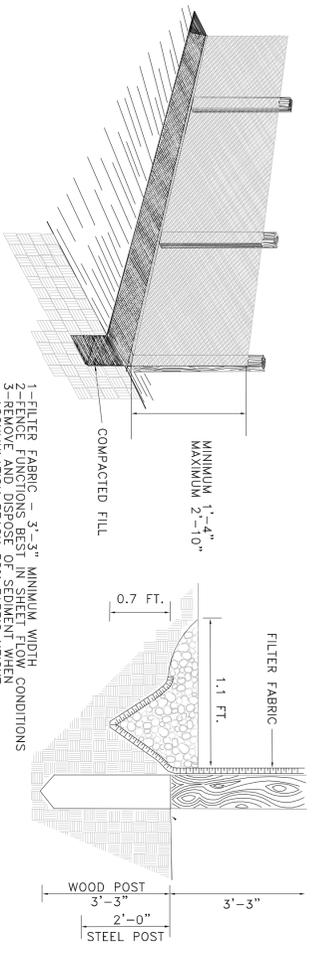


**ENTRANCE STABILIZATION NOTES:**

1. SEDIMENTS AND OTHER MATERIALS SHALL NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS SHALL BE STABILIZED SO AS TO PREVENT SEDIMENTS FROM BEING DEPOSITED INTO THE STORM DRAIN SYSTEMS. DEPOSITIONS MUST BE SWEEPED UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS INTO THE STORM DRAIN SYSTEM.
2. STABILIZED CONSTRUCTION ENTRANCE SHALL BE:
  - a. LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A PUBLIC RIGHT-OF-WAY, STREET, ALLEY AND SIDEWALK OR PARKING AREA.
  - b. A SERIES OF STEEL PLATES WITH RUMBLE STRIPS, AND/OR MIN. 3\"/>
3. ADDING A WASH PACK WITH A SEDIMENT TRAP LARGE ENOUGH TO COLLECT ALL WASH WATER CAN GREATLY IMPROVE EFFICIENCY.
4. ALL VEHICLES ACCESSING THE CONSTRUCTION SITE SHALL UTILIZE THE STABILIZED CONSTRUCTION ENTRANCE SITES.

**STREET MAINTENANCE NOTES:**

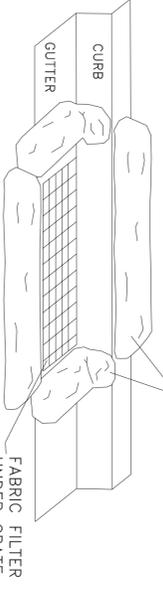
1. REMOVE ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS IMMEDIATELY.
2. REMOVE ALL DEBRIS THAT REDUCE CONSTRUCTION TRAFFIC WHENEVER SEDIMENT BECOMES VISIBLE.
3. PAVEMENT WASHING WITH WATER IS PROHIBITED IF IT RESULTS IN A DISCHARGE TO THE STORM DRAIN SYSTEM.



- 1-FILTER FABRIC - 3'-3" MINIMUM WIDTH
- 2-FENCE FUNCTIONS BEST IN SHEET FLOW CONDITIONS
- 3-REMOVE AND DISPOSE OF SEDIMENT WHEN ACCUMULATION REACH SIDE FABRIC HEIGHT
- 4-ACCUMULATION REACH SIDE FABRIC HEIGHT
- 4-GRANULAR BACKFILL MATERIAL

**SILT FENCE**

FILTER BAG FILLED WITH 1/4" GRAVEL OR WADDLE



**INLET PROTECTION**

**LEGEND**

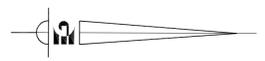
- INLET PROTECTION (GRAVEL FILLED WADDLES AND FABRIC UNDER GRATE)
- SILT FENCE - INSTALL SILT FENCE AS NEEDED TO CONTROL SEDIMENT
- FIBER ROLL / GRAVEL FILLED WADDLES (INSTALLED IN DRAINAGE SWALE)

**SWPPP KEY NOTES**

- 1 STABILIZED CONSTRUCTION ENTRANCE
- 2 WASH-OUT AREA
- 3 POSTED SWPPP LOCATION
- 4 STAGING AREA / CONSTRUCTION SUPPORT

**SWPPP NOTES**

1. CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FROM THE COUNTY AND THE STATE AS REQUIRED.
2. ALL REQUIREMENTS OF THE GENERAL PERMIT FOR CONSTRUCTION ACTIVITIES SHALL BE MET.
3. ALL BMP'S SHALL BE IN PLACE PRIOR TO BEGINNING OF CONSTRUCTION OR ACTIVITIES THAT MAY REQUIRE BMP'S
4. AN UPDATED COPY OF THE SWPPP SHALL BE MAINTAINED AT THE SITE.
5. SILT FENCE, INLET PROTECTION, AND STREET CLEANING SHALL BE COMPLETED AS NEEDED TO PREVENT EROSION AND SEDIMENT FROM ENTERING DRAINAGES.



SCALE: 1" = 80'	
DATE:	FEBRUARY 2014
DESIGN:	RC
DRAWN:	DTB
CHECKED:	TN

REVISIONS	
DATE	DESCRIPTION

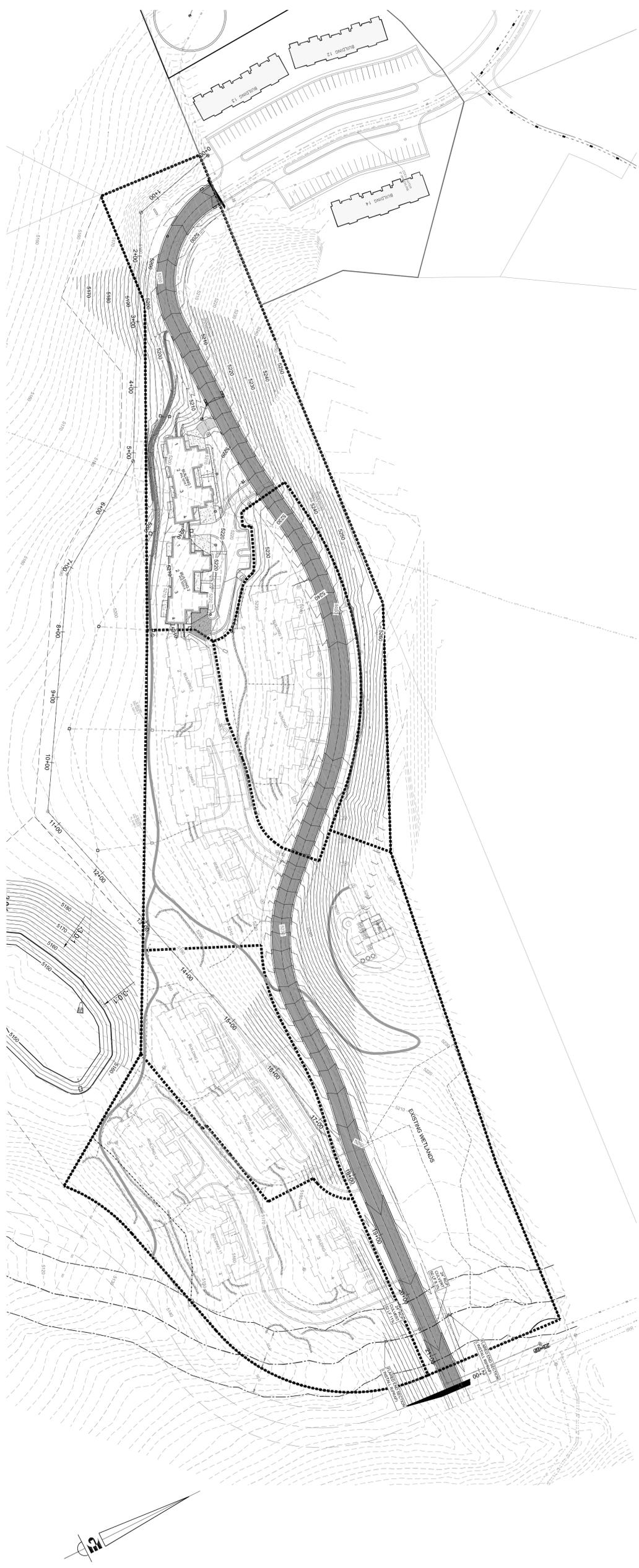


**STORM WATER POLLUTION PREVENTION PLAN**  
**THE RIDGE**  
**LEWIS HOMES**  
**EDEN, WEBER COUNTY, UTAH**

**GARDNER ENGINEERING**  
 CIVIL • LAND PLANNING  
 MUNICIPAL • LAND SURVEYING  
 5150 SOUTH 375 EAST OGDEN, UT  
 OFFICE: 801.476.0202 FAX: 801.476.0066

C  
7

DEVELOPER  
 LEWIS HOMES  
 EPC HEADQUARTERS  
 801-588-0040



STATION	DATE	DESCRIPTION
0+00		
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23+00		

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SS  
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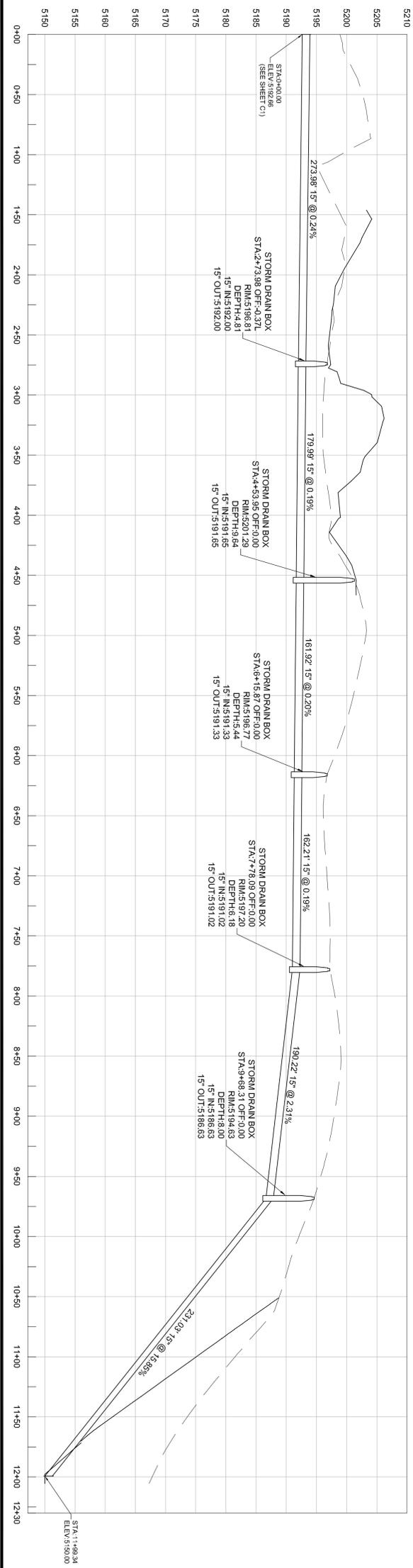
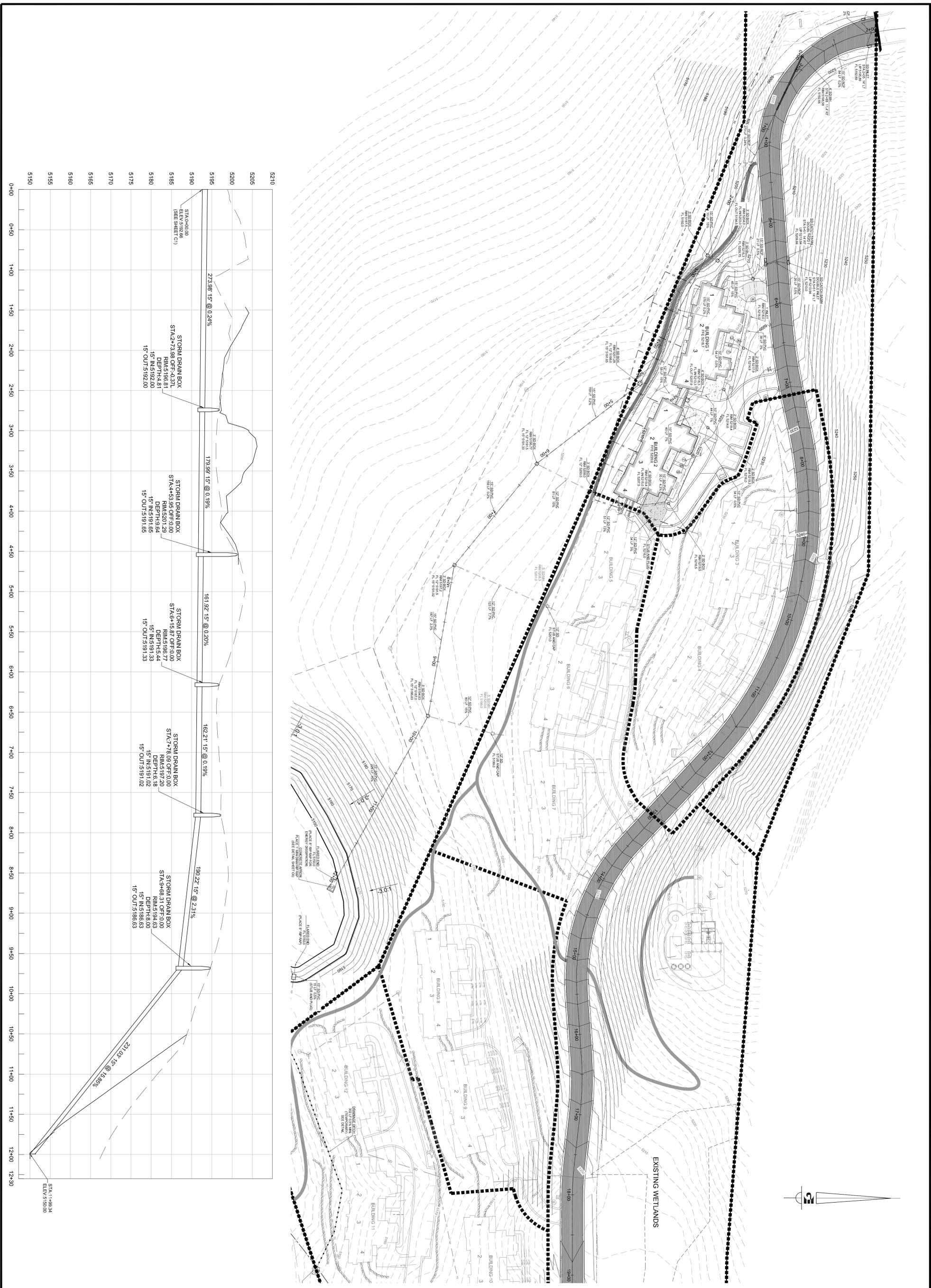
SEWER DESIGN  
THE RIDGE  
LEWIS HOMES  
EDEN, UTAH

REVISIONS	
DATE	DESCRIPTION

SCALE: 1" = 80'
DATE: OCTOBER 2013
DESIGN: RC
DRAWN: DTB
CHECKED: TN

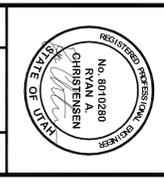
DWG: \_\_\_\_\_



SD  
1

**GARDNER ENGINEERING**  
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5150 SOUTH 375 EAST OGDEN, UT  
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**STORM DRAIN DESIGN**  
THE RIDGE  
LEWIS HOMES  
EDEN, WEBER COUNTY, UTAH



REVISIONS	
DATE	DESCRIPTION

SCALE: 1" = 50'  
DATE: FEBRUARY 2014  
DESIGN: RC  
DRAWN: DTB  
CHECKED: TN  
DWG: