

**ROLLING HILLS SUBDIVISION-PHASE 3
CITY COUNCIL MEETING
APRIL 21, 2016
PRELIMINARY PLAT
~450 SOUTH 400 EAST**

ZONING- R-2 Residential Permitted

UTILITIES- Available on 400 East. A 12-inch sewer is being installed for future growth to the South & East.

CURB AND SIDEWALKS- In front of all lots.

ROADS- 68-foot ROW.

STORM WATER- Existing Storm Water Pond.

FENCING- None proposed.

CANAL- The Canal to the East will be piped as previous phase.

NOTES-

This is a simple straightforward next phase for this subdivision. The City Staff and engineer have reviewed and recommend approval. The planning commission discussed the ditch piping, storm water pond, temporary turnout, etc. The ditch piping will continue up to the end of this phase. A turnout will be provided for emergency vehicles. The storm water pond is existing and will handle this phase. The planning commission unanimously recommends approval as proposed.



Memorandum

To Ron Salvesen, Hyrum City Administrator

From Darin Hawkes, P.E.

Date April 14, 2016

CC

Subject Rolling Hills Phase 3 – Preliminary Plat Follow-up Review

I've reviewed the following for compliance with City requirements, standard engineering practice and the previously issued review comments, dated March 31, 2016.

- Revised Rolling Hills Phase 3 Preliminary Plat prepared by Alliance Engineering. dated February, 2016 and stamped 4-11-16
- Preliminary Construction Drawings dated January 2016 and stamped 4-11-16.

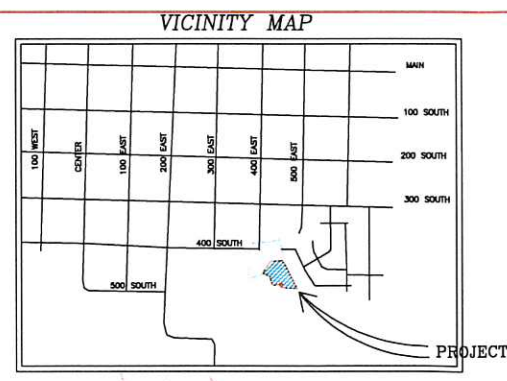
With the exception of providing a construction cost estimate, It appears the developer has addressed all previous comments generated by the initial preliminary plat review.

One minor item found was a reference in the title block on Sheet 2 of 4 to "Phase 2".

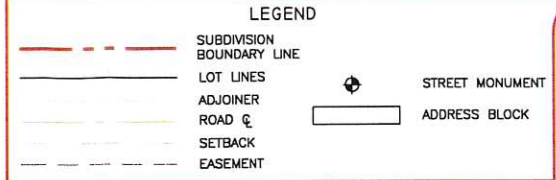
It is recommended that the referenced project continue to the final platting and construction document review phase if the developer desires.

ROLLING HILLS SUBDIVISION, PHASE 3
 PART OF THE NORTH HALF OF SECTION 9
 TOWNSHIP 10 NORTH RANGE 1 EAST
 SALT LAKE BASE AND MERIDIAN
 HYRUM, UTAH
PRELIMINARY PLAT

SCALE 1"=50'



- NOTES:**
- OWNER: KARTCHNER LAND MANAGEMENT, INC. 801 WEST 1700 SOUTH SUITE A LOGAN, UTAH 435-755-7080
 - ZONING- R-2 SINGLE FAMILY RESIDENTIAL
 - TOTAL ACRES- 4.40
 NUMBER OF LOTS- 10
 MIN. LOT SIZE- 12,000 S.F.
 OPEN SPACE: 0.0 ACRES
 DEDICATED ROADS: 0.84 ACRES
 TOTAL AREA IN ROW: 0.84 ACRES
 - SETBACKS: 25'-0" FRONT AND REAR- 30' FT CORNER LOTS- 30' FT
 - EASEMENTS: FRONT AND REAR- 10' FT SIDEWALK- 5' FT
 - TWO TREES PER LOT AND FOUR TREES PER CORNER LOT ARE REQUIRED BY HYRUM CITY SPECS.
 - 3/8" REBAR WITH CAP# 275617 SET AT ALL REAR AND INTERIOR PROPERTY CORNERS. CURB PINS WILL BE SET AT THE INTERSECTION OF THE LOT LINE WITH THE CURBING ONCE IT IS PLACED.
 - ALL EXPENSES INVOLVING THE NECESSARY IMPROVEMENTS OR EXTENSIONS FOR SANITARY SEWER SYSTEM, GAS SERVICE, ELECTRICAL SERVICE, GRADING AND LANDSCAPING, STORM DRAIN SYSTEMS, POTABLE WATER LINES, IRRIGATION SYSTEM, CURBS AND GUTTERS, MONUMENTS, FIRE HYDRANTS, PAVEMENT, SIDEWALKS, STREET LIGHTING AND SIGNING, AND OTHER IMPROVEMENTS SHALL BE FINANCED BY THE SUBDIVIDER. THE DEVELOPER'S PROPOSED METHOD OF SATISFYING THE SECURITY OF PERFORMANCE IS A LETTER OF CREDIT.
 - THIS AREA IS SUBJECT TO THE NORMAL EVERYDAY SOUNDS, ODORS, SIGHTS, EQUIPMENT, FACILITIES, AND ALL OTHER ASPECTS ASSOCIATED WITH AN AGRICULTURAL LIFESTYLE. FUTURE RESIDENTS SHOULD ALSO RECOGNIZE THE RISKS INHERENT WITH LIVESTOCK.



LEGAL DESCRIPTION

Part of the North Half of Section 9, Township 10 North, Range 1 East, Salt Lake Baseline and Meridian described as follows:

Commencing at the Hyrum City Street monument at the intersection of 300 South 200 East thence S 02°04'00" W 763.84 along a line to a City Street monument at the intersection of 400 South 200 East; thence S 83°14'21" E 1903.02 feet to the Southwest Corner of Lot 17, Rolling Hills Subdivision, Phase 2 and the POINT OF BEGINNING and running

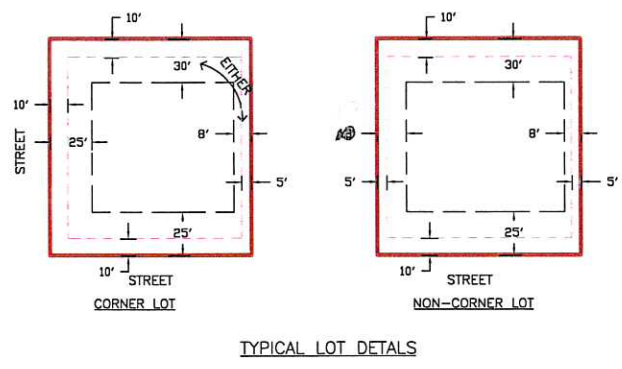
thence N 87°57'04" E 213.93 feet along the south line of Rolling Hills Subdivision, Phase 2;

thence along the west bank of the Main Branch of the Hyrum Canal the next two courses:

- 1) thence S 33°44'23" E 102.26 feet;
- 2) thence S 27°40'25" E 487.10 feet;
- thence N 84°32'33" W 240.04 feet;
- thence N 86°24'54" W 68.00 feet;
- thence 47.57 feet along a curve to the left with a radius of 416.00 feet (center bears N86°24'54"W), a central angle of 6°33'06" and a chord that bears N00°18'33"E 47.54 feet;
- thence S 85°51'35" W 162.40 feet;
- thence N 18°30'34" W 159.22 feet;
- thence N 60°14'29" W 160.00 feet;
- thence along the boundary of Rolling Hills Subdivision, Phase 2 the next three courses:
- 1) thence N 37°13'12" E 178.72 feet;
- 2) thence N 33°41'50" E 68.00 feet;
- 3) thence N 48°26'18" E 20.73 feet to the point of beginning, containing 4.40 acres.

CURVE TABLE

| CURVE | LENGTH | RADIUS | DELTA | CHORD | CHORD BEARING |
|-------|--------|--------|-----------|--------|---------------|
| C1 | 27.18 | 466.00 | 3°20'32" | 27.18 | S86°05'04"W |
| C4 | 32.13 | 20.00 | 92°02'57" | 28.79 | N45°39'25"E |
| C5 | 31.25 | 20.00 | 89°31'18" | 28.17 | N45°13'50"E |
| C6 | 18.18 | 534.00 | 1°57'04" | 18.18 | S89°00'57"W |
| C7 | 31.81 | 20.00 | 91°07'11" | 28.56 | S45°05'24"W |
| C8 | 18.18 | 466.00 | 2°14'09" | 18.18 | S88°52'24"W |
| C9 | 31.29 | 20.00 | 89°38'28" | 28.20 | N45°11'17"W |
| C10 | 47.57 | 416.00 | 6°33'06" | 47.54 | N00°18'33"E |
| C11 | 470.36 | 450.00 | 59°53'17" | 449.24 | N26°21'32"W |
| C12 | 114.22 | 416.00 | 15°43'53" | 113.86 | N10°49'57"W |
| C13 | 114.27 | 416.00 | 15°44'16" | 113.91 | N26°34'03"W |
| C14 | 115.57 | 416.00 | 15°55'02" | 115.20 | N42°23'41"W |
| C15 | 43.20 | 416.00 | 5°56'58" | 43.18 | N53°19'41"W |
| C16 | 80.32 | 484.00 | 9°30'29" | 80.23 | N51°32'56"W |
| C17 | 85.54 | 484.00 | 10°07'36" | 85.43 | N41°43'53"W |
| C18 | 85.03 | 484.00 | 10°03'59" | 84.93 | N31°38'05"W |
| C19 | 85.00 | 484.00 | 10°03'44" | 84.89 | N21°34'14"W |
| C20 | 85.00 | 484.00 | 10°03'44" | 84.89 | N11°30'30"W |
| C21 | 85.00 | 484.00 | 10°03'44" | 84.89 | N01°26'46"W |



SURVEYOR'S CERTIFICATE

I, Brian G. Lyon, a Registered Land Surveyor, hold Certificate No. 275617, as prescribed by the laws of the State of Utah, and do hereby certify that by authority of the owners, I have made a survey of the tract of land shown on this plat, which is accurately described therein, and have subdivided said tract of land into lots and streets to be hereafter known as ROLLING HILLS SUBDIVISION PHASE 3, and that the same has been surveyed and staked on the ground as shown on this plat.

Signed on this _____ day of _____, 20____.



OWNERS DEDICATION

Know all by these presents that we the undersigned owners of the above-described tract of land, having caused the same to be subdivided into lots as shown on this plat and name said tract Rolling Hills, Phase 3, do hereby dedicate for perpetual use of the public all parcels of land shown on this plat as intended for public use, and do warrant, defend and save the municipality harmless against any easements or other encumbrances on the dedicated streets which will interfere with the municipality's use, operation and maintenance of the streets and do further dedicate the easements as shown, with the same warranty as given for other dedicated property.

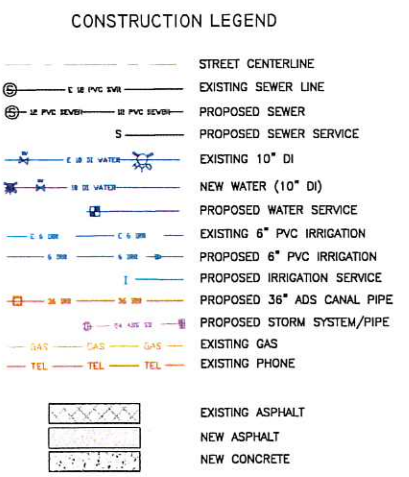
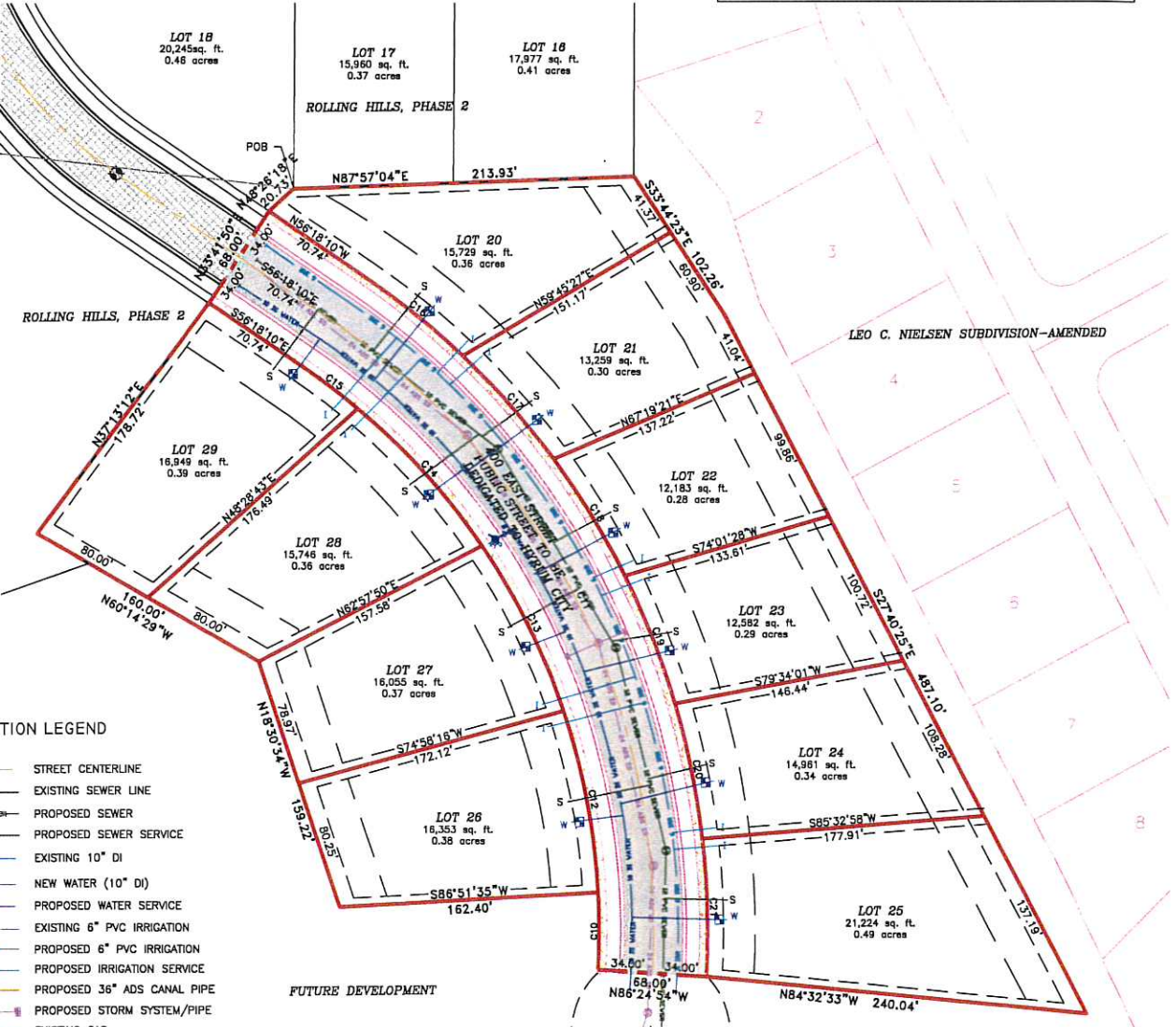
In witness whereof, we have hereunto set our hands this _____ day of _____, 20____.

CORPORATE ACKNOWLEDGEMENT

STATE OF UTAH | COUNTY OF CACHE |
 On the _____ day of _____, A.D., 20____, the signer(s) of the above Owner's Dedication, of Kartchner Land Management, a corporation, who duly acknowledged to me that they signed it freely and voluntarily for and in behalf of the corporation and for the uses and purposes therein mentioned. My commission expires: _____
 Notary Public _____
 Residing at: _____

ENGINEER'S CERTIFICATE

I certify that I have examined this plat and find it to be correct and in accordance with information on file in this office and the city ordinance.
 Date _____ City Engineer _____



APPROVAL AS TO FORM
 Approved as to form this _____ day of _____, A.D., 20____.

 City Attorney

CITY COUNCIL APPROVAL AND ACCEPTANCE
 Presented to the Hyrum City Council this _____ day of _____, A.D., 20____, at which time this subdivision was approved and accepted.
 Mayor _____ Date _____

PLANNING COMMISSION CHAIRMAN APPROVAL AND ACCEPTANCE
 Presented to the Hyrum City Planning Commission chairman this _____ day of _____, A.D., 20____, at which time this subdivision was recommended to the City Council for approval.
 Planning Commission Chairman _____ Date _____

COUNTY RECORDER'S NO.
 State of Utah, County of Cache, recorded and filed at the request of _____
 Date _____ Time _____ Fee _____
 Entry _____
 Index _____
 Filed in: File of plots _____ County Recorder _____

UTILITY COMPANY APPROVALS
 The utility easements shown on this plat are approved
 Hyrum City Power _____
 Questar Gas _____
 Comcast Cable _____
 Hyrum City Culinary Water _____
 Hyrum City Sanitary Sewer _____

REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|--------|-------------|
| 1 | 2-2016 | DRAWING |
| 2 | | DRAWN BY |
| | | BCL |

SCALE 1"=50'

ROLLING HILLS SUBDIVISION, PHASE 3
 PART OF THE NORTH HALF SECTION 9
 TOWNSHIP 10 NORTH RANGE 1 EAST
 SALT LAKE BASE AND MERIDIAN
 HYRUM, UTAH
PRELIMINARY PLAT

ALLIANCE CONSULTING ENGINEERS
 150 EAST 200 NORTH SUITE P
 LOGAN, UTAH 84321
 (435) 755-5121

AE

SHEET **1** OF 1 SHEETS

ROLLING HILLS SUBDIVISION, PHASE 3

PART OF THE NORTHWEST QUARTER SECTION 9
TOWNSHIP 10 NORTH RANGE 1 EAST
SALT LAKE BASE AND MERIDIAN
HYRUM, UTAH

INDEX SHEET

VICINITY MAP



| SHEET INDEX | |
|-------------|-------------------|
| SHEET NO. | SHEET DESCRIPTION |
| 1 | INDEX SHEET |
| 2 | 400 EAST STREET |
| 3 | DRAINAGE PLAN |
| 4 | ELECTRICAL PLAN |
| | |
| | |
| | |

OWNER/DEVELOPER
KARTCHNER HOMES
601 W 1700 SOUTH
LOGAN, UT
755-7080

CIVIL ENGINEER
ALLIANCE CONSULTING
ENGINEERS, INC.
150 EAST 200 NORTH SUITE P
LOGAN, UTAH 84321
435-755-5121

CITY ENGINEER
AQUA ENGINEERING, INC.
533 West 2600 South
Bountiful, Utah 84010
(801) 299-1327

GENERAL NOTES (APPLICABLE TO ALL CIVIL SHEETS):

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, CITY OF HYRAX STANDARDS, STATE OF UTAH AND ANY OTHER APPLICABLE STANDARDS ISSUED BY THE CONTROLLING AGENCY.
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS BEFORE CONSTRUCTION. ANY DISCREPANCIES BETWEEN CONSTRUCTION DOCUMENTS AND FIELD CONDITIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE OWNER.
- CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY AREAS AND/OR MATERIALS DAMAGED DURING CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN ALL ADJACENT PROPERTY (PUBLIC & PRIVATE) FROM ALL CONSTRUCTION DEBRIS.
- CONTRACTOR SHALL PROVIDE SMOOTH TRANSITION FROM ALL NEW CONSTRUCTION TO EXISTING CONDITIONS.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY AUTOMOBILE AND PEDESTRIAN TRAFFIC CONTROL DEVICES REQUIRED BY LOCAL, STATE, AND FEDERAL CODES AND ORDINANCES.
- CONTRACTOR SHALL REPLACE SURVEY MONUMENTS DAMAGED DURING CONSTRUCTION. SURVEY MONUMENTS TO BE REPLACED BY A REGISTERED, LICENSED LAND SURVEYOR.
- CONTRACTOR TO LOCATE ALL EXISTING UTILITIES, INCLUDING FIBER OPTIC. ANY DAMAGES TO EXISTING UTILITIES WILL BE REPAIRED AT CONTRACTORS EXPENSE.
- DIMENSIONS SHOWN ARE TO THE CENTER OF THE PIPELINE UNLESS OTHERWISE NOTED.
- DISTANCES SHOWN ALONG PIPELINES ARE HORIZONTAL DISTANCES AND NOT ACTUAL PIPE LENGTHS. MORE PIPE MAY BE REQUIRED TO COMPLETE CONSTRUCTION THAN IS DIMENSIONED IN THE PLANS.
- THRUST BLOCKS SHALL BE PLACED ON WATERLINES AT ALL DIRECTION CHANGES, FITTINGS, BENDS, ELBOWS, FIRE HYDRANTS AND GATES VALVES AS SHOWN IN THE PROJECT PLANS.
- CONTRACTOR IS REQUIRED TO HAVE A SET OF APPROVED PLANS ON THE SITE AT ALL TIMES. ANY WORK COMPLETED WITHOUT A SET PRESENT IS DONE SO AT THE CONTRACTORS RISK AND EXPENSE IF ERRORS OCCUR.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING WATER NECESSARY FOR DUST ABATEMENT, COMPACTING, ETC.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING SOURCES FOR GRANULAR MATERIALS, WATER, WASTE SITES, AND ANY OTHER MATERIALS SOURCES AS REQUIRED FOR PROJECT COMPLETION.
- ANY WORK DONE WITHIN A PUBLIC RIGHT-OF-WAY SHALL BE COORDINATED WITH THE APPROPRIATE TRANSPORTATION AGENCY AND SHALL MEET THE REQUIREMENTS OF THAT AGENCY AND THE REQUIREMENTS OF ANY RIGHT-OF-WAY OR SPECIAL USE PERMITS.
- THE CONTRACTOR SHALL COORDINATE ALL LIVE TAPS AND ANY OTHER WORK OR MANIPULATION OF THE EXISTING WATER SYSTEM WITH THE CITY.
- ON SLOPING AREAS THE CONTRACTOR SHALL TAKE PRECAUTIONS TO MITIGATE ANY POSSIBLE EROSION PROBLEMS IN THE TRENCHES DUE TO STORM WATER THAT MIGHT OCCUR DURING OR AFTER CONSTRUCTION AS DIRECTED OR APPROVED BY ENGINEER.
- THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL EROSION CONTROL MEASURES AS DETAILED IN THE PROJECT PLANS UNTIL FINAL ACCEPTANCE OF THIS PROJECT.
- THE CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONS NECESSARY TO INSURE THAT NO STORM WATER AND/OR CONSTRUCTION DEBRIS ARE RELEASED FROM THE SITE. ANY RELEASES SHALL BE CLEANED AND MITIGATED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACCESS AND RELATED TRAFFIC CONTROL WITH THE COUNTY, CITY, AND STATE ROADWAY DEPARTMENTS. THE ENGINEER SHALL REVIEW ALL TRAFFIC CONTROL PLANS.
- ALL GATE VALVES SHALL BE LOCATED NEAR TO TEES OR CROSSES AND THEIR ASSOCIATED REDUCERS AS SHOWN ON THE PROJECT PLANS.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY FITTINGS, HARDWARE, LABOR, ETC. TO CONSTRUCT VERTICAL AND HORIZONTAL BENDS IN PIPE AS NEEDED TO MEET THE REQUIRED GRADES, ALIGNMENTS AND COVER REQUIREMENTS.
- ALL AIR RELEASE VALVES SHALL BE INSTALLED AT THE CREST OF THE VERTICAL CURVATURE OF THE WATER LINE. CONTRACTOR SHALL RECORD ACTUAL LOCATION OF VALVES ON FIELD RECORD DRAWINGS.
- THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF HYRAX FOR ALL UTILITY INSPECTIONS PRIOR TO BACK.
- ALL WATER SYSTEM COMPONENTS SHALL BE INSTALLED, PRESSURE TESTED, AND CHLORINATED PRIOR TO COMPLETING ANY ROADWAY CONSTRUCTION.

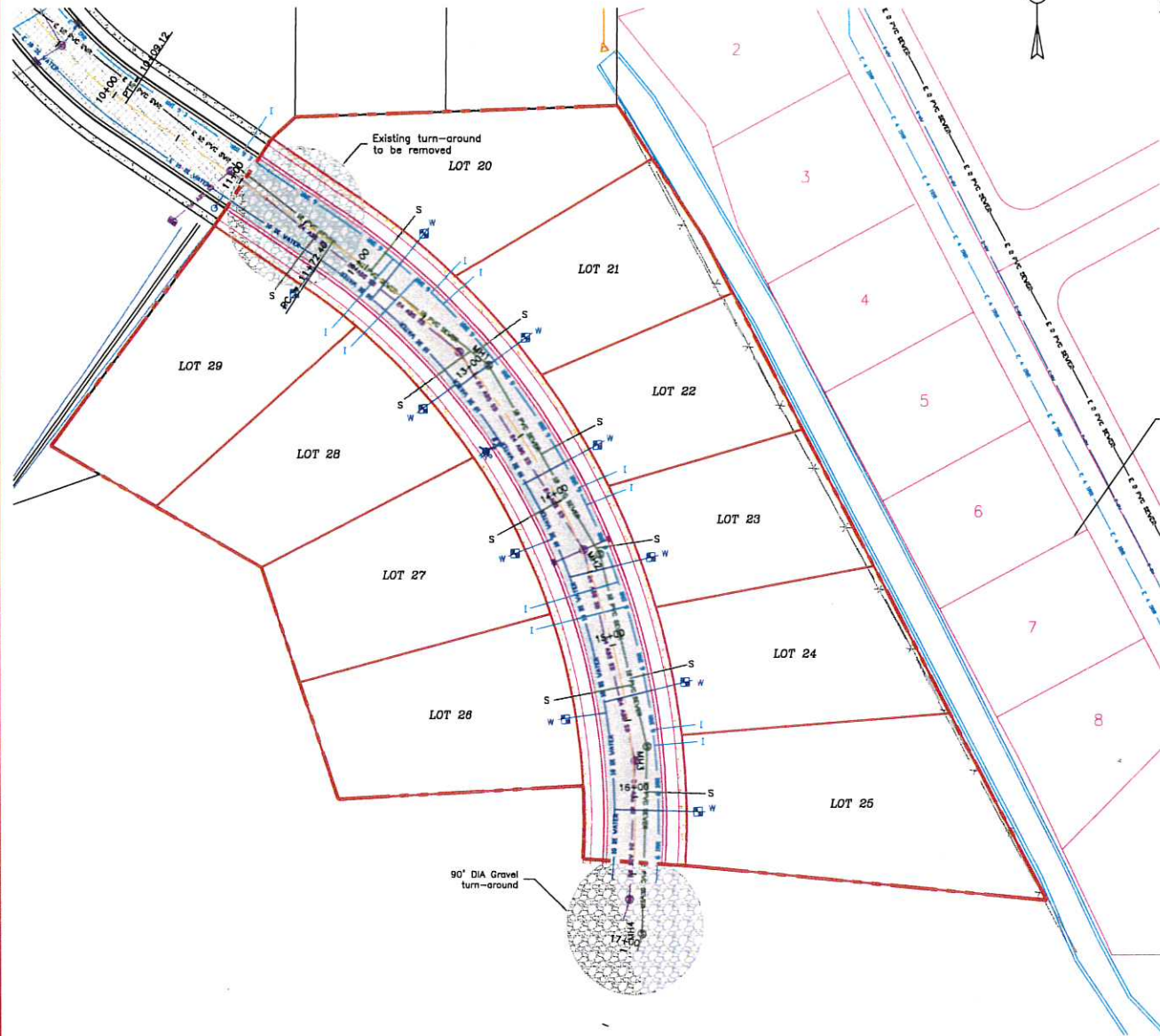


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| JOB NO. | DATE | DRAWING |
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| | AM | |
| PROJECT | | |
| ROLLING HILLS SUBDIVISION, PHASE 3 | | |
| PART OF THE NORTHWEST QUARTER SECTION 9 TOWNSHIP 10 NORTH RANGE 1 EAST SALT LAKE BASE AND MERIDIAN HYRUM, UTAH | | |
| INDEX SHEET | | |
| PROJECT | | |
| ALLIANCE CONSULTING ENGINEERS, INC. | | |
| 150 EAST 200 NORTH SUITE P LOGAN, UTAH 84321 (435) 755-5121 | | |
| SHEET | | |
| 1 | | |
| OF | | |
| 4 SHEETS | | |

ROLLING HILLS SUBDIVISION PHASE 3

PART OF THE NORTH HALF OF SECTION 9,
TOWNSHIP 10 NORTH, RANGE 1 EAST, SLB&M
400 EAST STREET

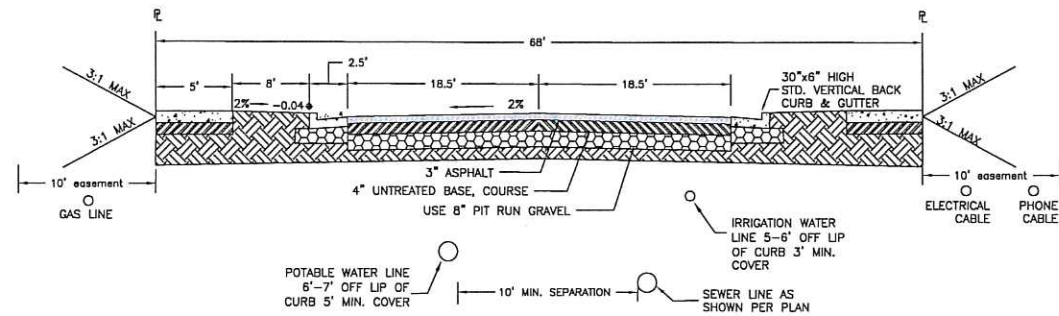
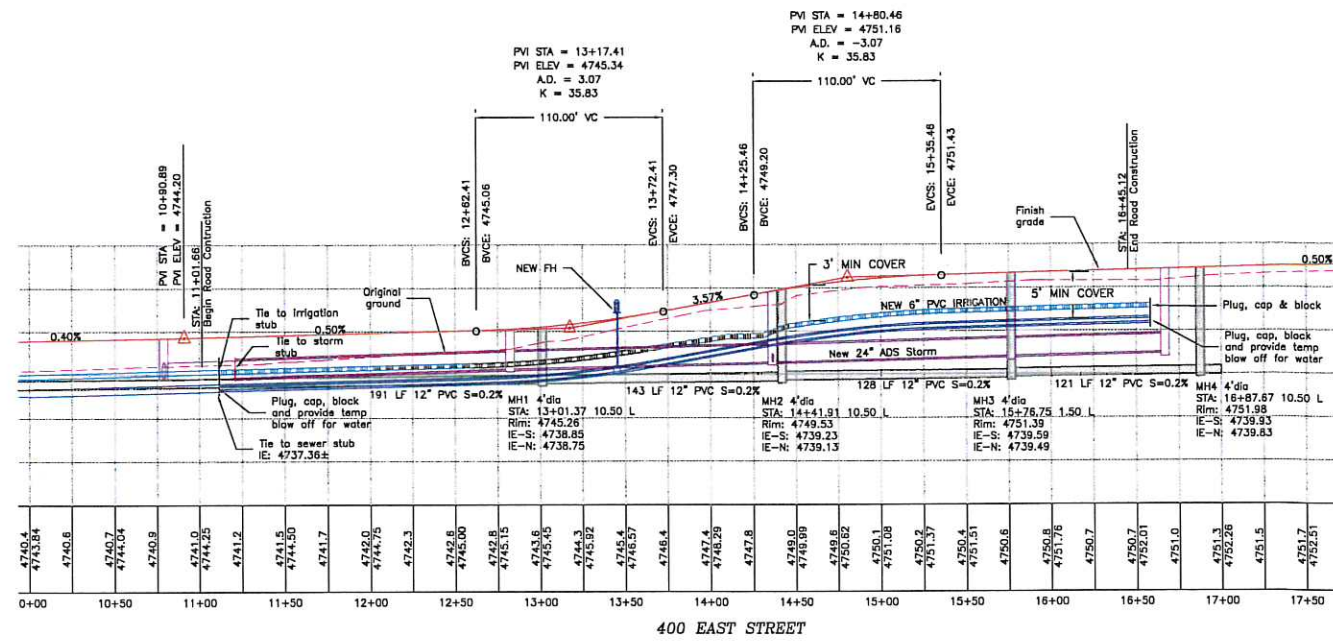
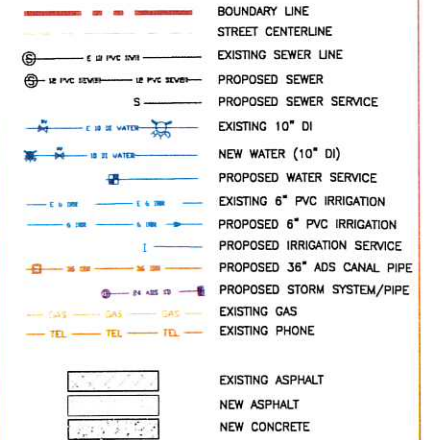
SCALE 1"=50' Hor
1"=10' Vert



CONSTRUCTION NOTES

1. ALL CONSTRUCTION TO MEET HYURUM CITY STANDARDS AND SPECIFICATIONS
2. ALL WATER LINE SERVICES TO BE 3/4" COPPER WITH 18"x48" METER BARRELS. LIDS TO HAVE 2" DIA. HOLES. ALL METERS TO BE LOCATED WITHIN THE PARK STRIP.
3. ALL WATER LINES TO HAVE A MINIMUM COVER OF 5 FEET.
4. WATER MAIN TO BE 10" CLASS 350 D.I.
5. SEWER SERVICES SHALL BE 4" SDR 35 PVC.
6. SEWER SERVICES TO EXTEND 10 FEET INSIDE LOT LINES WITH A 2x6 MARKING THE END.
7. TOP ELEVATIONS ARE APPROXIMATE AND ALL MANHOLES ARE TO BE ADJUSTED TO FINISH GRADE.
8. MANHOLES ARE TO BE STANDARD PRECAST, OFFSET CONE, WITH 30" CAST IRON RINGS AND LIDS, AND LADDERS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND FEES REQUIRED FOR THE COMPLETION OF THE WORK AND AS REQUIRED BY THE CITY.
10. SECONDARY AND IRRIGATION WATER LINES TO HAVE A MINIMUM COVER OF 36 INCHES.
11. ALL CATCH BASINS SHALL HAVE A BICYCLE-SAFE GRATE.
12. CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO BEGINNING EXCAVATION.
13. SECONDARY WATER LINES TO BE 6" PVC SDR 21 CLASS 200. DRAINS TO BE INSTALLED AT ENDS. SERVICES TO BE 1" WITH RISERS 10' OFF THE FRONT AND SIDE OF PROPERTY LINES WITH 2 VALVES. (1 CITY, 1 PRIVATE)
14. SHUT-OFF VALVES FOR CULINARY AND SECONDARY WATER LINES ARE REQUIRED AND ARE TO BE CLUSTER AT TEES AND CROSSES.
15. THE VALVE FOR THE HYDRANTS SHALL BE LOCATED NEXT TO THE MAIN LINE.
16. CONCRETE COLLARS SHALL BE REQUIRED AROUND ALL WATER VALVES.
17. THE OVERALL DATUM FOR THIS PROJECT IS THE LOGAN CITY GPS STATION 109 WITH AN ELEVATION OF 4583.37.
18. THE CANAL REROUTE LINE AND FITTINGS SHALL BE WATERTIGHT AND CONFORM TO ASTM D3212 AND ASTM D3340.
19. ALL SIDEWALKS RAMPS TO MEET ADA REQUIREMENTS AND CONTAIN A DETECTABLE WARNING SURFACE.

LEGEND



68' TYPICAL ROAD CROSS-SECTION
400 EAST STREET



| REVISION | |
|----------|----|
| DATE | BY |
| | |
| | |

AE ALLIANCE CONSULTING ENGINEERS
150 EAST 200 NORTH SUITE P
LOGAN, UTAH 84321

**400 EAST STREET
ROLLING HILLS PHASE 3
SHEET 2 OF 4**

PART OF THE NORTH HALF OF SECTION 9,
TOWNSHIP 10 NORTH, RANGE 1 EAST, SLB&M
HYURUM, UTAH

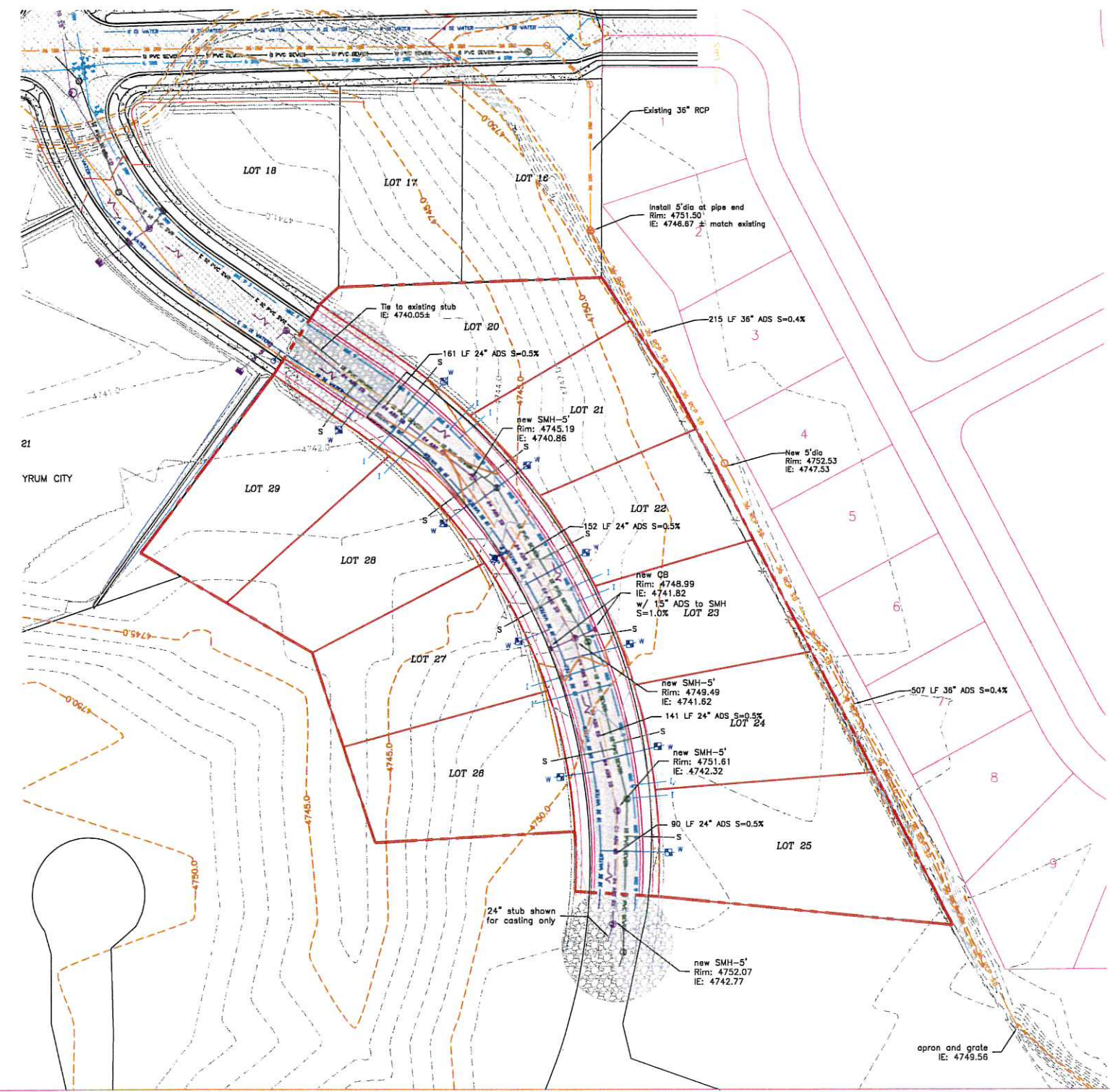
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ROLLING HILLS SUBDIVISION PHASE 3

PART OF THE NORTH HALF OF SECTION 9,
TOWNSHIP 10 NORTH, RANGE 1 EAST, SLB&M
DRAINAGE PLAN



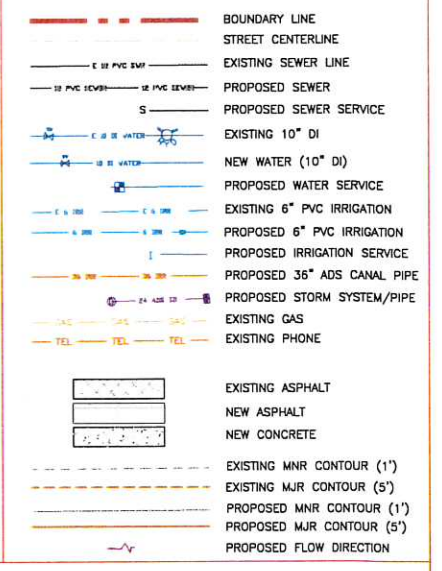
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17. THE OVERALL DATUM FOR THIS PROJECT IS THE LOGAN CITY GPS STATION 109 WITH AN ELEVATION OF 4563.37.
18. THE CANAL REROUTE LINE AND FITTINGS SHALL BE WATERTIGHT AND CONFORM TO ASTM D3212 AND ASTM D3040.
19. ALL SIDEWALKS RAMPS TO MEET ADA REQUIREMENTS AND CONTAIN A DETECTABLE WARNING SURFACE.

LEGEND



STORM CALCULATION

contains calculation for all of Rolling Hills

| Determination of Weighted 'C' Value: | Area - disturbed | | Area (ft ²) | 'C' Value | A'C |
|--|----------------------------------|----------------------------------|-------------------------|-----------|-----------------|
| | North of pond (ft ²) | South of pond (ft ²) | | | |
| Road Area (roads, sidewalks, driveways, etc.): | 89785 | 268730 | 358515 | 0.95 | 340589.25 |
| Roof Area: | 42000 | 270000 | 312000 | 0.95 | 296400.00 |
| Landscaped Area: | 377486 | 1728925 | 2106411 | 0.15 | 315961.65 |
| Total Area: | 509271 | 2287655 | 2776926 | | 63.75 Ac |
| C value | 0.36 | 0.34 | 0.34 | | |

Peakflow Determination:

| 'C' Value: | 0.36 | 0.34 |
|--------------------------------------|--------|---------|
| Rainfall Intensity: 30min-10yr Pipes | 1.18 | 1.18 |
| Area: | 509271 | 2287655 |
| Peakflow: 30min-10yr Pipes | 4.93 | 20.89 |

Drainage Area to Pond: 63.75 acres

Weighted 'C' value for Pond Drainage Area: 0.34

Allowable Infiltration Rate: 1.0 inches/hr = 0.0014 ft/min

Pond Bottom Area: 265 ft x 284 ft = 75260 sq. ft.

100-Year Return Period

| Interval (min) | Precip. Intensity (in/hr) | Precip. Depth (in) | Area (ac) | C Value | CxAx3600 (ft ³ /in) | Accum. Inflow (ft ³ /min) | Allowable Discharge (ft ³ /min) | Accum. Discharge (ft ³) | Required Storage (ft ³) | Required Storage (ac-ft) |
|----------------|---------------------------|--------------------|-----------|---------|--------------------------------|--------------------------------------|--|-------------------------------------|-------------------------------------|--------------------------|
| 5 | 5.28 | 0.44 | 63.75 | 0.34 | 78030 | 34333 | 105 | 523 | 33811 | 0.78 |
| 10 | 4.08 | 0.68 | 63.75 | 0.34 | 78030 | 53060 | 105 | 1045 | 52015 | 1.19 |
| 15 | 3.36 | 0.84 | 63.75 | 0.34 | 78030 | 65545 | 105 | 1568 | 63977 | 1.47 |
| 30 | 2.26 | 1.13 | 63.75 | 0.34 | 78030 | 88174 | 105 | 3136 | 85038 | 1.95 |
| 60 | 1.40 | 1.40 | 63.75 | 0.34 | 78030 | 109242 | 105 | 6272 | 102970 | 2.36 |
| 120 | 0.81 | 1.61 | 63.75 | 0.34 | 78030 | 125628 | 105 | 12543 | 113085 | 2.80 |
| 180 | 0.57 | 1.72 | 63.75 | 0.34 | 78030 | 134204 | 105 | 18815 | 115389 | 2.86 |
| 360 | 0.35 | 2.08 | 63.75 | 0.34 | 78030 | 162299 | 105 | 37630 | 124669 | 2.86 |
| 720 | 0.22 | 2.58 | 63.75 | 0.34 | 78030 | 201317 | 105 | 75260 | 126057 | 2.89 |
| 1440 | 0.13 | 3.14 | 63.75 | 0.34 | 78030 | 245014 | 105 | 150520 | 94494 | 2.17 |



| REVISION | DATE | BY |
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AE ALLIANCE CONSULTING ENGINEERS
150 EAST 200 NORTH SUITE P
LOGAN, UTAH 84321

DRAINAGE PLAN
ROLLING HILLS PHASE 3
SHEET 3 OF 4

PART OF THE NORTH HALF OF SECTION 9, TOWNSHIP 10 NORTH, RANGE 1 EAST, SLB&M HYRUM, UTAH

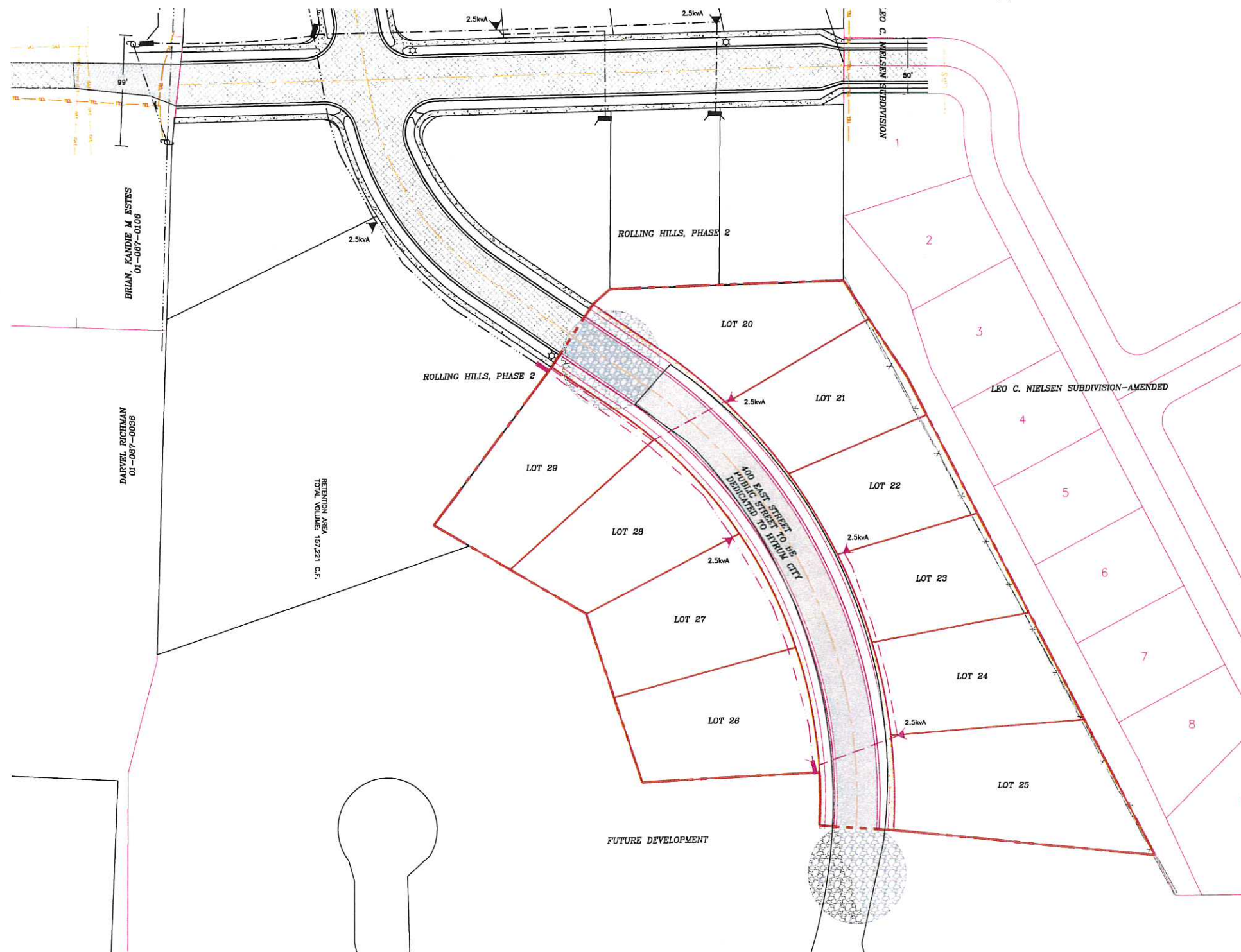
SCALE: 1"=50' DRAWN BY: AM CHECKED BY: AM DATE: APPROVED BY: BL DWG DATA: prelim.DWG

ROLLING HILLS SUBDIVISION PHASE 3

PART OF THE NORTH HALF OF SECTION 9,
TOWNSHIP 10 NORTH, RANGE 1 EAST, SLB&M

ELECTRICAL PLAN

SCALE 1"=50'



LEGEND

- BOUNDARY LINE
- 3 φ FEED THROUGH
- TRANSFORMER
- PRIMARY WIRE 3 φ 4/0
- SECONDARY WIRE 1 φ
- PRIMARY J BOX 3 φ
- SECONDARY J BOX
- CONDUIT PVC 2-1/2" PRIMARY
- CONDUIT PVC 3" SECONDARY
- SECONDARY WIRE #350 URD
- RELOCATED/NEW POLE
- EXISTING POLE
- EXISTING OVERHEAD LINES
- EASEMENT
- NEW LIGHT

CONSTRUCTION NOTES

1. ALL CONSTRUCTION TO MEET HYRUM CITY STANDARDS AND SPECIFICATIONS
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND FEES REQUIRED FOR THE COMPLETION OF THE WORK AND AS REQUIRED BY THE CITY.
3. CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO BEGINNING EXCAVATION.

| REVISION | DATE | BY |
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150 EAST 200 NORTH SUITE P
LOGAN, UTAH 84321

ELECTRICAL PLAN
ROLLING HILLS PHASE 3
SHEET 4 OF 4

PART OF THE NORTH HALF OF SECTION 9, TOWNSHIP 10 NORTH, RANGE 1 EAST, SLB&M
HYRUM, UTAH

SCALE: 1"=50' DRAWN BY: AM CHECKED BY: AM DATE: 12-20-____
APPROVED BY: BL DWG DATA: prelim3.DWG