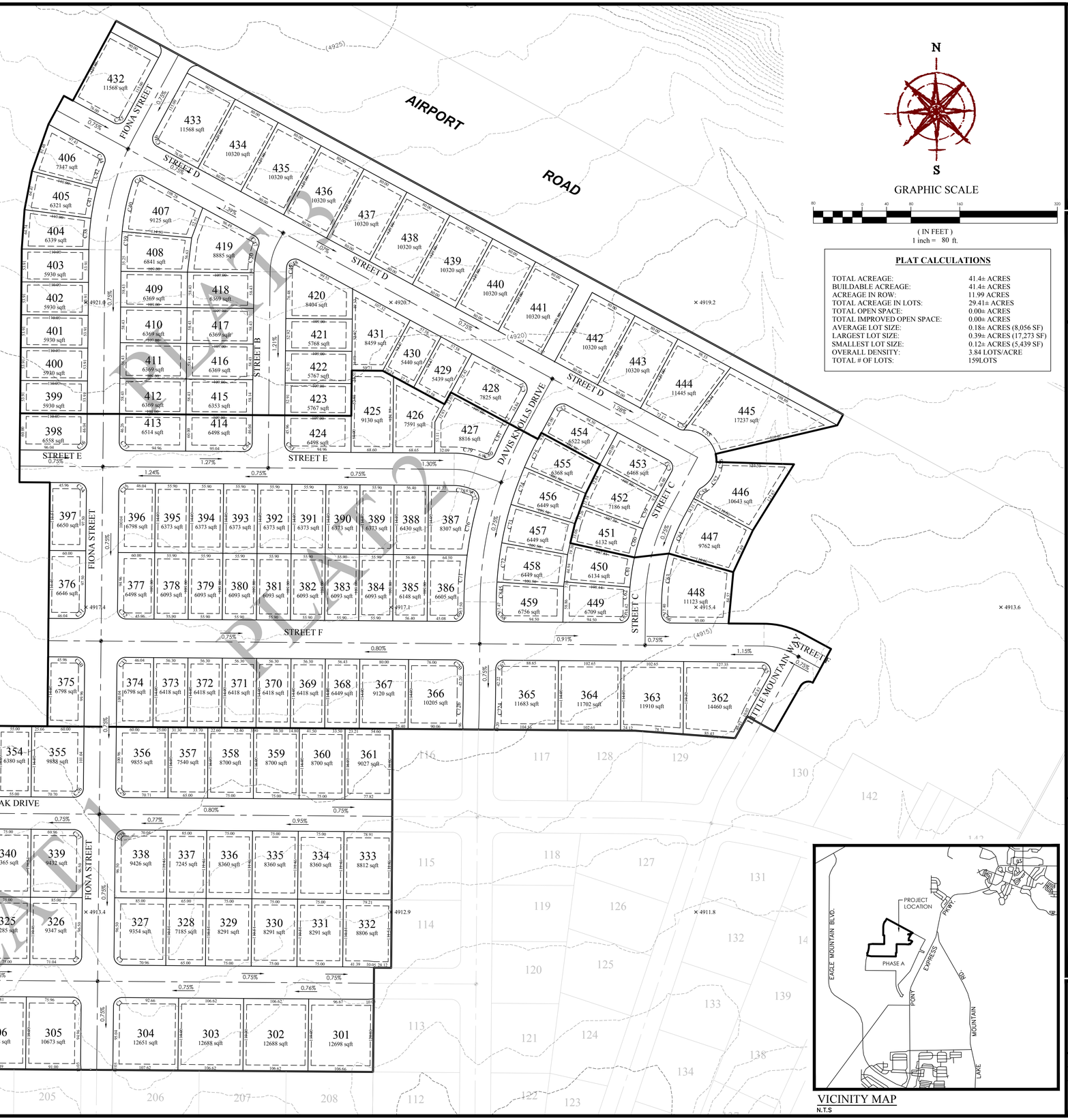
| Curve Table | | | | | |
|---|---|---|---|---|---|
| CURVE | RADIUS | DELTA | LENGTH | CHORD DIRECTION | CHORD LENGTH |
| C1 | 14.00 | 89°50'44" | 21.95 | S45°30'17"W | 19.77 |
| C2 | 14.00 | 90°09'16" | 22.03 | N44°29'43"W | 19.83 |
| C3 | 14.00 | 90°09'16" | 22.03 | S44°29'43"E | 19.83 |
| C4 | 14.00 | 89°50'44" | 21.95 | N45°30'17"E | 19.77 |
| C5 | 15.00 | 104°15'03" | 27.29 | S37°26'50"E | 23.68 |
| C6 | 15.00 | 77°24'22" | 20.26 | S51°43'28"W | 18.76 |
| C7 | 3086.50 | 2°01'58" | 109.50 | S12°00'18"W | 109.50 |
| C8 | 3163.50 | 1°35'49" | 88.17 | N11°47'13"E | 88.16 |
| C9 | 15.00 | 105°37'28" | 27.65 | N40°13'36"W | 23.90 |
| C10 | 173.50 | 11°18'29" | 34.24 | S81°18'25"W | 34.19 |
| C11 | 226.50 | 17°01'36" | 67.31 | N84°09'58"E | 67.06 |
| C12 | 15.00 | 78°33'26" | 20.57 | N53°24'04"E | 18.99 |
| C13 | 3163.50 | 0°45'44" | 42.09 | N14°30'13"E | 42.09 |
| C14 | 811.50 | 2°22'33" | 33.65 | N13°29'25"E | 33.65 |
| C15 | 888.50 | 3°03'29" | 47.42 | S13°08'57"W | 47.42 |
| C16 | 811.50 | 5°09'49" | 73.13 | N09°43'14"E | 73.11 |
| C17 | 888.50 | 6°22'20" | 98.81 | S08°26'03"W | 98.76 |
| C18 | 811.50 | 4°22'07" | 61.88 | N04°57'16"E | 61.86 |
| C19 | 15.00 | 85°10'46" | 22.30 | S47°50'16"W | 20.30 |
| C20 | 811.50 | 0°25'21" | 5.98 | N02°33'32"E | 5.98 |
| C21 | 811.50 | 4°44'28" | 67.15 | N00°01'22"W | 67.13 |
| C22 | 15.00 | 89°33'05" | 23.44 | S44°47'48"E | 21.13 |
| C23 | 888.50 | 6°32'17" | 101.39 | S03°17'24"E | 101.33 |
| C24 | 811.50 | 4°03'41" | 57.52 | N04°25'26"W | 57.51 |
| C25 | 811.50 | 0°12'11" | 2.88 | N06°39'38"W | 2.88 |
| C26 | 15.00 | 89°50'44" | 23.52 | N45°30'17"E | 21.18 |
| C27 | 15.00 | 90°09'16" | 23.60 | N44°29'43"W | 21.24 |
| C28 | 15.00 | 89°50'44" | 23.52 | S45°30'17"W | 21.18 |
| C29 | 15.00 | 90°09'16" | 23.60 | S44°29'43"E | 21.24 |
| C30 | 14.00 | 90°09'16" | 22.03 | N44°29'43"W | 19.83 |
| C31 | 14.00 | 89°50'44" | 21.95 | N45°30'17"E | 19.77 |
| C32 | 14.00 | 90°09'16" | 22.03 | S44°29'43"E | 19.83 |
| C33 | 14.00 | 89°50'44" | 21.95 | S45°30'17"W | 19.77 |
| C34 | 14.00 | 90°09'16" | 22.03 | N44°29'43"W | 19.83 |
| C35 | 14.00 | 89°50'44" | 21.95 | S45°30'17"W | 19.77 |
| C36 | 14.00 | 89°50'44" | 21.95 | N45°30'17"E | 19.77 |
| C37 | 14.00 | 90°09'16" | 22.03 | S44°29'43"E | 19.83 |
| C38 | 426.50 | 6°52'57" | 51.23 | N04°02'34"E | 51.20 |
| C39 | 373.50 | 4°39'18" | 30.34 | S02°54'34"W | 30.34 |
| C40 | 373.50 | 12°56'33" | 84.37 | S11°42'29"W | 84.19 |
| C41 | 426.50 | 6°52'58" | 51.23 | N10°55'31"E | 51.20 |
| C42 | 426.50 | 5°43'02" | 42.56 | N17°13'31"E | 42.54 |
| C43 | 14.00 | 100°16'27" | 24.50 | S68°18'59"W | 21.49 |
| C44 | 14.00 | 81°37'49" | 19.95 | N20°43'53"W | 18.30 |
| C45 | 14.00 | 90°00'00" | 21.99 | N73°27'13"E | 19.80 |
| C46 | 14.00 | 90°00'00" | 21.99 | S16°32'47"E | 19.80 |
| C47 | 14.00 | 81°21'25" | 19.88 | N20°52'04"W | 18.25 |
| C48 | 14.00 | 110°47'05" | 27.07 | S63°03'41"W | 23.05 |
| C49 | 73.50 | 7°05'13" | 9.09 | S04°07'32"W | 9.09 |
| C50 | 126.50 | 19°13'43" | 42.45 | N10°11'47"E | 42.25 |

| Curve Table | | | | | |
|---|---|---|---|---|---|
| CURVE | RADIUS | DELTA | LENGTH | CHORD DIRECTION | CHORD LENGTH |
| C51 | 15.00 | 90°00'00" | 23.56 | N16°32'47"W | 21.21 |
| C52 | 15.00 | 90°00'00" | 23.56 | S73°27'13"W | 21.21 |
| C53 | 14.00 | 90°00'00" | 21.99 | N16°32'47"W | 19.80 |
| C54 | 14.00 | 31°27'28" | 7.69 | S77°16'31"E | 7.59 |
| C55 | 51.00 | 79°43'38" | 70.97 | S53°08'25"E | 65.38 |
| C56 | 51.00 | 5°08'29" | 4.58 | S04°14'11"W | 4.57 |
| C57 | 51.00 | 53°06'15" | 47.27 | S33°21'33"W | 45.60 |
| C58 | 14.00 | 31°27'28" | 7.69 | S44°10'57"W | 7.59 |
| C59 | 355.50 | 7°55'43" | 49.19 | N24°29'21"E | 49.16 |
| C60 | 355.50 | 7°56'50" | 49.31 | N16°33'04"E | 49.27 |
| C61 | 355.50 | 7°56'50" | 49.31 | N08°36'14"E | 49.27 |
| C62 | 355.50 | 4°11'15" | 25.98 | N02°32'11"E | 25.98 |
| C63 | 302.50 | 15°38'14" | 82.56 | S08°15'41"W | 82.30 |
| C64 | 302.50 | 12°22'25" | 65.33 | S22°16'00"W | 65.20 |
| C65 | 14.00 | 89°59'05" | 21.99 | N45°26'06"E | 19.80 |
| C66 | 15.00 | 90°00'55" | 23.57 | S44°33'54"E | 21.22 |
| C67 | 14.00 | 89°59'05" | 21.99 | S45°26'06"W | 19.80 |
| C68 | 15.00 | 90°00'55" | 23.57 | S44°33'54"E | 21.22 |
| C69 | 15.00 | 89°59'05" | 23.56 | N45°26'06"E | 21.21 |
| C70 | 14.00 | 90°00'55" | 21.99 | N44°33'54"W | 19.80 |
| C71 | 626.50 | 7°00'52" | 76.70 | N03°57'00"E | 76.65 |
| C72 | 573.50 | 6°28'44" | 64.85 | S06°56'39"W | 64.81 |
| C73 | 573.50 | 6°28'44" | 64.85 | S13°25'23"W | 64.81 |
| C74 | 573.50 | 6°28'44" | 64.85 | S19°54'06"W | 64.81 |
| C75 | 573.50 | 5°18'45" | 53.17 | S25°47'51"W | 53.16 |
| C76 | 626.50 | 8°21'16" | 91.35 | N11°38'04"E | 91.27 |
| C77 | 15.00 | 86°17'27" | 22.59 | N27°20'01"W | 20.52 |
| C78 | 73.50 | 19°05'36" | 24.49 | N80°01'33"W | 24.38 |
| C79 | 126.50 | 19°05'36" | 42.16 | S80°01'33"E | 41.96 |
| C80 | 15.00 | 86°17'27" | 22.59 | N66°22'32"E | 20.52 |
| C81 | 626.50 | 5°01'21" | 54.92 | N25°44'29"E | 54.90 |
| C82 | 626.50 | 0°12'04" | 2.20 | N28°21'11"E | 2.20 |
| C83 | 14.00 | 90°09'16" | 22.03 | S44°29'43"E | 19.83 |
| C84 | 14.00 | 89°50'44" | 21.95 | N45°30'17"E | 19.77 |
| C85 | 15.00 | 118°45'32" | 31.09 | N30°11'35"W | 25.82 |
| C724 | 1826.50 | 1°29'44" | 47.68 | S01°11'26"W | 47.68 |
| C726 | 1773.50 | 1°32'48" | 47.87 | N01°12'58"E | 47.87 |
| C845 | 573.50 | 3°15'43" | 32.65 | S02°04'25"W | 32.65 |




**PLAT CALCULATIONS**

| | |
|---|---|
| TOTAL ACREAGE: | 41.4± ACRES |
| BUILDABLE ACREAGE: | 41.4± ACRES |
| ACREAGE IN ROW: | 11.99 ACRES |
| TOTAL ACREAGE IN LOTS: | 29.41± ACRES |
| TOTAL OPEN SPACE: | 0.00± ACRES |
| TOTAL IMPROVED OPEN SPACE: | 0.00± ACRES |
| AVERAGE LOT SIZE: | 0.18± ACRES (8,056 SF) |
| LARGEST LOT SIZE: | 0.39± ACRES (17,273 SF) |
| SMALLEST LOT SIZE: | 0.12± ACRES (5,439 SF) |
| OVERALL DENSITY: | 3.84 LOTS/ACRE |
| TOTAL # OF LOTS: | 159LOTS |




VICINITY MAP
N.T.S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32 WEST CENTER STREET
MIDVALE, UTAH 84047 PH: (801) 352-0075
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# OVERLAND PHASE B

A PORTION OF THE SW1/4 & THE SE1/4 OF SECTION 36, TOWNSHIP 5 SOUTH, RANGE 2 WEST, SALT LAKE BASE & MERIDIAN, LOCATED IN EAGLE MOUNTAIN, UTAH

## PRELIMINARY PLAT

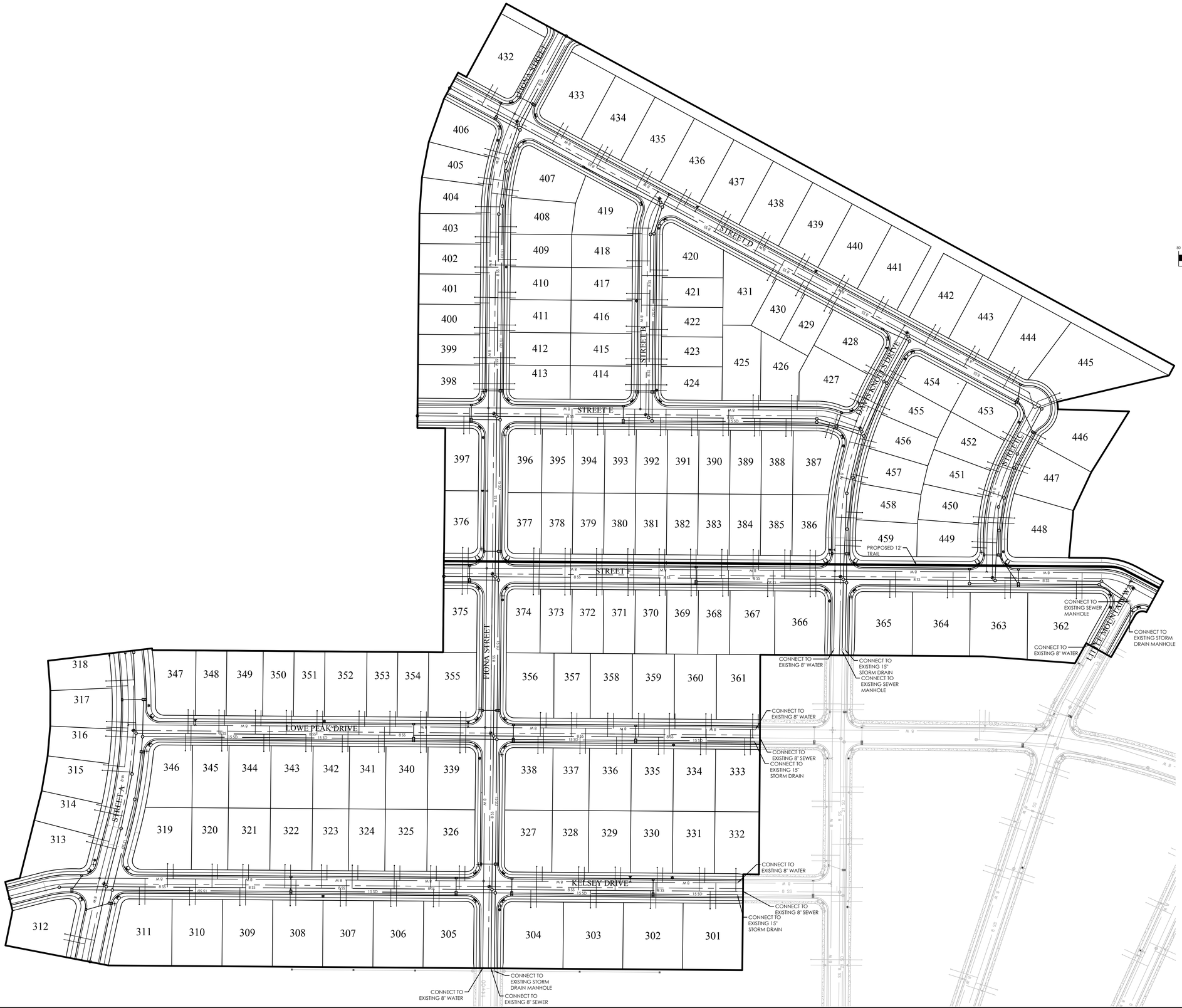
REVISION BLOCK

| # | DATE | DESCRIPTION |
|---|---|---|
| 1 | ---- | ---- |
| 2 | ---- | ---- |
| 3 | ---- | ---- |
| 4 | ---- | ---- |
| 5 | ---- | ---- |
| 6 | ---- | ---- |

PRELIMINARY PLAT

| | | | |
|---|---|---|---|
| Scale: | 1"=80' | Drawn: | AWS |
| Date: | 12/21/17 | Job #: | 17-427 |
| Sheet: | C01 | | |

Z:_2017\17-427 Overland Village 1\design\Drawing\Sheets\Preliminary\Preliminary Plat.dwg




N

S

GRAPHIC SCALE

80 0 40 80 160 320

( IN FEET )
1 inch = 80 ft.

## LEGEND

| | |
|---|---|
| | BOUNDARY |
| | ROW |
| | CENTERLINE |
| | LOT LINE |
| | EASEMENT |
| 15 SD | 15" STORM DRAIN |
| 8 SS | 8" SANITARY SEWER |
| 8 W | 8" CULINARY WATER |
| 8 SW | 8" SECONDARY WATER |
| XXXX | CONTOUR MAJOR |
| XXXX | CONTOUR MINOR |
| Ex SD | EXIST. STORM DRAIN |
| Ex SS | EXIST. SANITARY SEWER |
| Ex W | EXIST. CULINARY WATER |
| X | EXIST. FENCE |
| (XXXX) | EXIST. CONTOUR MAJOR |
| (XXXX) | EXIST. CONTOUR MINOR |
| | SIGN |
| | STREET LIGHT |
| SD | SD MH, INLET, AND COMBO |
| | SEWER MANHOLE |
| | VALVE, TEE & BEND |
| | WATER BLOW-OFF |
| | FIRE HYDRANT |
| | STREET MONUMENT (TO BE SET) |
| | EXIST. STREET MONUMENT |
| SD | EXIST. SD INLET & MH |
| | EXIST. SEWER MH |
| | EXIST. VALVE, TEE, & BEND |
| | EXIST. FIRE HYDRANT |
| o XXXX.XX | SPOT ELEVATION |

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32 WEST CENTER STREET
MIDVALE, UTAH 84047 PH: (801) 352-0075
www.focusutah.com

# Overland Phase B

Eagle Mountain, Utah County, Utah

## SITE & UTILITY PLAN

REVISION BLOCK

| # | DATE | DESCRIPTION |
|---|---|---|
| 1 | ---- | ---- |
| 2 | ---- | ---- |
| 3 | ---- | ---- |
| 4 | ---- | ---- |
| 5 | ---- | ---- |
| 6 | ---- | ---- |

SITE & UTILITY PLAN

| | | | |
|---|---|---|---|
| Scale: | 1"=80' | Drawn: | AWS |
| Date: | 12/21/17 | Job #: | 17-427 |
| Sheet: | C02 | | |

Z:_2017\17-427 Overland Village 1\design 17-427\dwg\Sheets\preliminary\UTILITY PLAN2.dwg

## MAJOR BASIN CHARACTERISTICS:

THE PROPERTY FALLS WITHIN "ZONE X" OF THE CURRENT FEMA FLOOD-PLAIN MAP (PANEL No. 4955170115B). "ZONE X" CONTAINS AREAS DETERMINED TO BE OUTSIDE THE 500-YEAR FLOOD-PLAIN.

## SUB-BASIN DESCRIPTIONS:

THE PROPERTY CURRENTLY RESIDES ON UNDEVELOPED LAND ON THE WEST SIDE OF PONY EXPRESS PARKWAY. HISTORICALLY THE PROPERTY DRAINS FROM NORTH TO SOUTH AND WEST TO EAST . THERE ARE CURRENTLY NO KNOW WASHES OR UNDERGROUND STORM DRAIN FACILITIES IN THE AREA. THE HOMES WILL BE GRADED IN SUCH A FASHION AS TO PROMOTE POSITIVE DRAINAGE AWAY FROM ANY STRUCTURE IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.

## PROPOSED SYSTEM NARATIVE:

THE PROPOSED STORM DRAIN CONVEYANCE SYSTEM WILL BE DESIGNED TO ACCOMMODATE THE 10-YEAR STORM EVENT AND IN ACCORDANCE WITH EAGLE MOUNTAIN STANDARDS AND SPECIFICATIONS. NO MAJOR EARTHWORK IS EXPECTED ON THE SITE, WHICH WOULD ALTER THE HISTORICAL DRAINAGE PATTERNS. VARIOUS RETENTION FACILITIES WILL BE CONSTRUCTED TO ACCOMMODATE THE NEEDS OF THIS VILLAGE.

## EROSION CONTROL NARRATIVE:

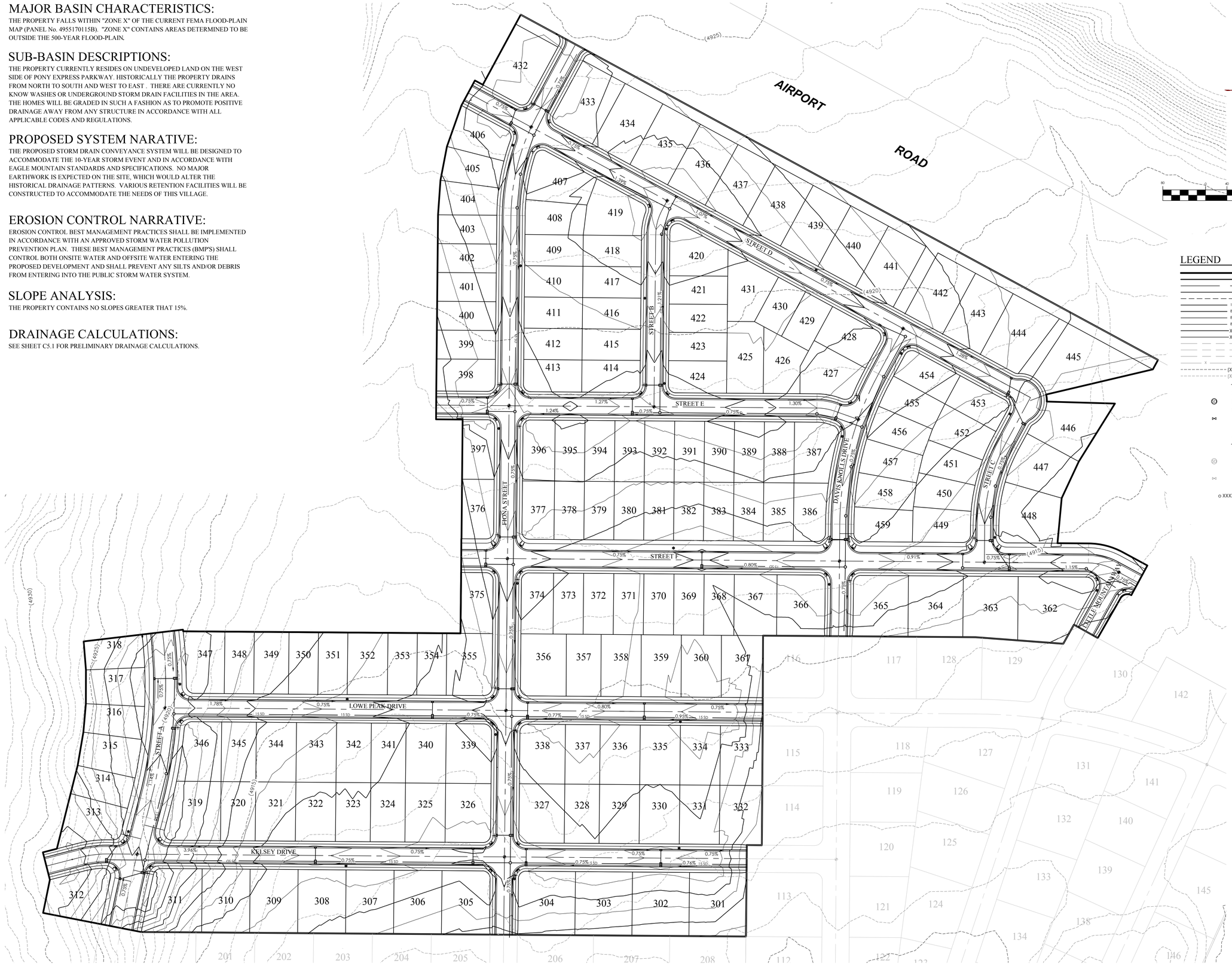
EROSION CONTROL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED IN ACCORDANCE WITH AN APPROVED STORM WATER POLLUTION PREVENTION PLAN. THESE BEST MANAGEMENT PRACTICES (BMP'S) SHALL CONTROL BOTH ONSITE WATER AND OFFSITE WATER ENTERING THE PROPOSED DEVELOPMENT AND SHALL PREVENT ANY SILTS AND/OR DEBRIS FROM ENTERING INTO THE PUBLIC STORM WATER SYSTEM.

## SLOPE ANALYSIS:

THE PROPERTY CONTAINS NO SLOPES GREATER THAT 15%.

## DRAINAGE CALCULATIONS:

SEE SHEET C5.1 FOR PRELIMINARY DRAINAGE CALCULATIONS.





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# Overland Phase B

A PORTION OF THE SW1/4 & THE SE1/4 OF SECTION 36, TOWNSHIP 5 SOUTH, RANGE 2 WEST, SALT LAKE BASE & MERIDIAN, LOCATED IN EAGLE MOUNTAIN, UTAH

## PRELIMINARY GRADING & DRAINAGE PLAN

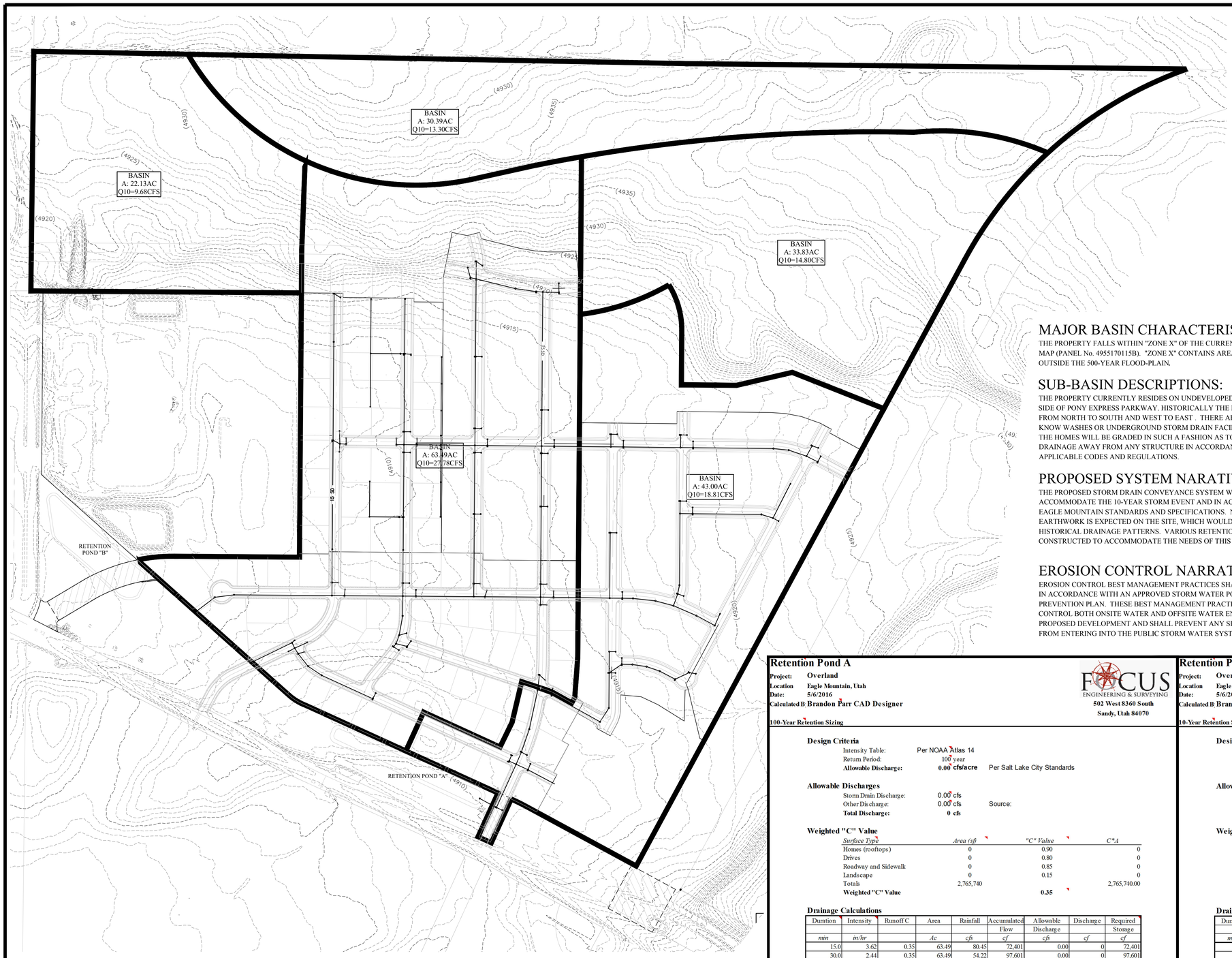
REVISION BLOCK

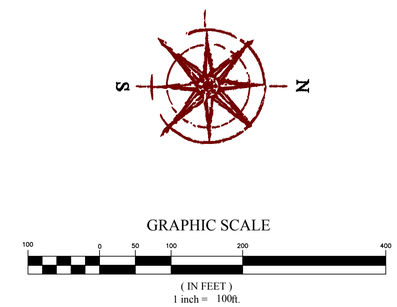
| # | DATE | DESCRIPTION |
|---|---|---|
| 1 | ---- | ---- |
| 2 | ---- | ---- |
| 3 | ---- | ---- |
| 4 | ---- | ---- |
| 5 | ---- | ---- |
| 6 | ---- | ---- |

PRELIMINARY GRADING & DRAINAGE PLAN

| | | | |
|---|---|---|---|
| Scale: | 1"=80' | Drawn: | AWS |
| Date: | 12/21/17 | Job #: | 17-427 |
| Sheet: | C03 | | |

Z:\2017\17-427 Overland Village 1\design 17-427\dwg\sheets\preliminary\Grading & Drainage Plan.dwg




## LEGEND

| | |
|---|---|
| | BOUNDARY |
| | ROW |
| | CENTERLINE |
| | LOT LINE |
| | EASEMENT |
| 15 SD | 15" STORM DRAIN |
| 8 SS | 8" SANITARY SEWER |
| 8 W | 8" CULINARY WATER |
| 8 SW | 8" SECONDARY WATER |
| XXXX | CONTOUR MAJOR |
| XXXX | CONTOUR MINOR |
| Ex SD | EXIST. STORM DRAIN |
| Ex SS | EXIST. SANITARY SEWER |
| Ex W | EXIST. CULINARY WATER |
| X | EXIST. FENCE |
| (XXXX) | EXIST. CONTOUR MAJOR |
| (XXXX) | EXIST. CONTOUR MINOR |
| | SIGN |
| | STREET LIGHT |
| SD | SD MH, INLET, AND COMBO |
| | SEWER MANHOLE |
| | VALVE, TEE & BEND |
| | WATER BLOW-OFF |
| | FIRE HYDRANT |
| | STREET MONUMENT (TO BE SET) |
| | EXIST. STREET MONUMENT |
| SD | EXIST. SD INLET & MH |
| | EXIST. SEWER MH |
| | EXIST. VALVE, TEE, & BEND |
| | EXIST. FIRE HYDRANT |
| o XXXX.XX | SPOT ELEVATION |

## MAJOR BASIN CHARACTERISTICS:

THE PROPERTY FALLS WITHIN "ZONE X" OF THE CURRENT FEMA FLOOD-PLAIN MAP (PANEL No. 4955170115B). "ZONE X" CONTAINS AREAS DETERMINED TO BE OUTSIDE THE 500-YEAR FLOOD-PLAIN.

## SUB-BASIN DESCRIPTIONS:

THE PROPERTY CURRENTLY RESIDES ON UNDEVELOPED LAND ON THE WEST SIDE OF PONY EXPRESS PARKWAY. HISTORICALLY THE PROPERTY DRAINS FROM NORTH TO SOUTH AND WEST TO EAST . THERE ARE CURRENTLY NO KNOW WASHES OR UNDERGROUND STORM DRAIN FACILITIES IN THE AREA. THE HOMES WILL BE GRADED IN SUCH A FASHION AS TO PROMOTE POSITIVE DRAINAGE AWAY FROM ANY STRUCTURE IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.

## PROPOSED SYSTEM NARATIVE:

THE PROPOSED STORM DRAIN CONVEYANCE SYSTEM WILL BE DESIGNED TO ACCOMMODATE THE 10-YEAR STORM EVENT AND IN ACCORDANCE WITH EAGLE MOUNTAIN STANDARDS AND SPECIFICATIONS. NO MAJOR EARTHWORK IS EXPECTED ON THE SITE, WHICH WOULD ALTER THE HISTORICAL DRAINAGE PATTERNS. VARIOUS RETENTION FACILITIES WILL BE CONSTRUCTED TO ACCOMMODATE THE NEEDS OF THIS VILLAGE.

## EROSION CONTROL NARRATIVE:

EROSION CONTROL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED IN ACCORDANCE WITH AN APPROVED STORM WATER POLLUTION PREVENTION PLAN. THESE BEST MANAGEMENT PRACTICES (BMP'S) SHALL CONTROL BOTH ONSITE WATER AND OFFSITE WATER ENTERING THE PROPOSED DEVELOPMENT AND SHALL PREVENT ANY SILTS AND/OR DEBRIS FROM ENTERING INTO THE PUBLIC STORM WATER SYSTEM.

## Retention Pond A

**Project:** Overland
**Location** Eagle Mountain, Utah
**Date:** 5/6/2016
**Calculated B** Brandon Parr CAD Designer

FOCUS ENGINEERING & SURVEYING
502 West 8360 South
Sandy, Utah 84070

**100-Year Retention Sizing**

### Design Criteria

| | | | |
|---|---|---|---|
| Intensity Table: | Per NOAA Atlas 14 | | |
| Return Period: | 100 year | | |
| **Allowable Discharge:** | **0.00 cfs/acre** | Per Salt Lake City Standards | |

### Allowable Discharges

| | | |
|---|---|---|
| Storm Drain Discharge: | 0.00 cfs | |
| Other Discharge: | 0.00 cfs | Source: |
| **Total Discharge:** | **0 cfs** | |

### Weighted "C" Value

| *Surface Type* | *Area (sf)* | *"C" Value* | *C*A* |
|---|---|---|---|
| Homes (rooftops) | 0 | 0.90 | 0 |
| Drives | 0 | 0.80 | 0 |
| Roadway and Sidewalk | 0 | 0.85 | 0 |
| Landscape | 0 | 0.15 | 0 |
| Totals | 2,765,740 | | 2,765,740.00 |
| **Weighted "C" Value** | | **0.35** | |

### Drainage Calculations

| Duration | Intensity | Runoff C | Area | Rainfall | Accumulated Flow | Allowable Discharge | Discharge | Required Storage |
|---|---|---|---|---|---|---|---|---|
| *min* | *in/hr* | | *Ac* | *cfs* | *cf* | *cfs* | *cf* | *cf* |
| 15.0 | 3.62 | 0.35 | 63.49 | 80.45 | 72,401 | 0.00 | 0 | 72,401 |
| 30.0 | 2.44 | 0.35 | 63.49 | 54.22 | 97,601 | 0.00 | 0 | 97,601 |
| 60.0 | 1.51 | 0.35 | 63.49 | 33.56 | 120,801 | 0.00 | 0 | 120,801 |
| 120.0 | 0.80 | 0.35 | 63.49 | 17.78 | 128,001 | 0.00 | 0 | 128,001 |
| 180.0 | 0.54 | 0.35 | 63.49 | 12.00 | 129,601 | 0.00 | 0 | 129,601 |
| 720.0 | 0.15 | 0.35 | 63.49 | 3.33 | 144,001 | 0.00 | 0 | 144,001 |
| 1440.0 | 0.08 | 0.35 | 63.49 | 1.78 | 153,601 | 0.00 | 0 | 153,601 |

***Maximum Storage Requirement:*** ***153,601***
*Maximum Storage Requirement (ac-ft):* 3.53

***Retention Basin Design***

| | | |
|---|---|---|
| Storage Requirement: | 153,601 *cf* | |
| Allowable Depth: | 1.0 *ft* | Detention Calculated Using Basic Geometry of a Trapezoidal Trench |
| Retention Pond Volume: | 120,732 *cf* | |
| Roadway Sump Storage | 0 *cf* | |
| **Total Storage** | **120,732** | ***INCREASE RETENTION*** |

## Retention Pond B

**Project:** Overland
**Location** Eagle Mountain, Utah
**Date:** 5/6/2016
**Calculated B** Brandon Parr CAD Designer

FOCUS ENGINEERING & SURVEYING
502 West 8360 South
Sandy, Utah 84070

**10-Year Retention Sizing**

### Design Criteria

| | | | |
|---|---|---|---|
| Intensity Table: | Per NOAA Atlas 14 | | |
| Return Period: | 10 year | | |
| **Allowable Discharge:** | **0.00 cfs/acre** | Per Salt Lake City Standards | |

### Allowable Discharges

| | | |
|---|---|---|
| Storm Drain Discharge: | 0.00 cfs | |
| Other Discharge: | 0.00 cfs | Source: |
| **Total Discharge:** | **0 cfs** | |

### Weighted "C" Value

| *Surface Type* | *Area (sf)* | *"C" Value* | *C*A* |
|---|---|---|---|
| Homes (rooftops) | 0 | 0.90 | 0 |
| Drives | 0 | 0.80 | 0 |
| Roadway and Sidewalk | 0 | 0.85 | 0 |
| Landscape | 0 | 0.15 | 0 |
| Totals | 1,873,080 | | 1,873,080.00 |
| **Weighted "C" Value** | | **0.35** | |

### Drainage Calculations

| Duration | Intensity | Runoff C | Area | Rainfall | Accumulated Flow | Allowable Discharge | Discharge | Required Storage |
|---|---|---|---|---|---|---|---|---|
| *min* | *in/hr* | | *Ac* | *cfs* | *cf* | *cfs* | *cf* | *cf* |
| 15.0 | 1.85 | 0.35 | 43.00 | 27.84 | 25,058 | 0.00 | 0 | 25,058 |
| 30.0 | 1.25 | 0.35 | 43.00 | 18.81 | 33,863 | 0.00 | 0 | 33,863 |
| 60.0 | 0.77 | 0.35 | 43.00 | 11.59 | 41,719 | 0.00 | 0 | 41,719 |
| 120.0 | 0.65 | 0.35 | 43.00 | 9.78 | 70,434 | 0.00 | 0 | 70,434 |
| 180.0 | 0.3 | 0.35 | 43.00 | 4.52 | 48,762 | 0.00 | 0 | 48,762 |
| 720.0 | 0.10 | 0.35 | 43.00 | 1.51 | 65,016 | 0.00 | 0 | 65,016 |
| 1440.0 | 0.05 | 0.35 | 43.00 | 0.75 | 65,016 | 0.00 | 0 | 65,016 |

***Maximum Storage Requirement:*** ***70,434***
*Maximum Storage Requirement (ac-ft):* 1.62

***Retention Basin Design***

| | | |
|---|---|---|
| Storage Requirement: | 70,434 *cf* | |
| Allowable Depth: | 1.0 *ft* | Detention Calculated Using Basic Geometry of a Trapezoidal Trench |
| Retention Pond Volume: | 120,732 *cf* | |
| Roadway Sump Storage | 0 *cf* | |
| **Total Storage** | **120,732** | ***RETENTION ADEQUATE*** |

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# Overland Phase B

Eagle Mountain, Utah County, Utah

OVERALL DRAINAGE PLAN

REVISION BLOCK

| # | DATE | DESCRIPTION |
|---|---|---|
| 1 | ---- | ---- |
| 2 | ---- | ---- |
| 3 | ---- | ---- |
| 4 | ---- | ---- |
| 5 | ---- | ---- |
| 6 | ---- | ---- |

OVERALL DRAINAGE PLAN

| | | | |
|---|---|---|---|
| Scale: | 1"=100' | Drawn: | AWS |
| Date: | 12/21/17 | Job #: | 17-427 |
| Sheet: | C04 | | |

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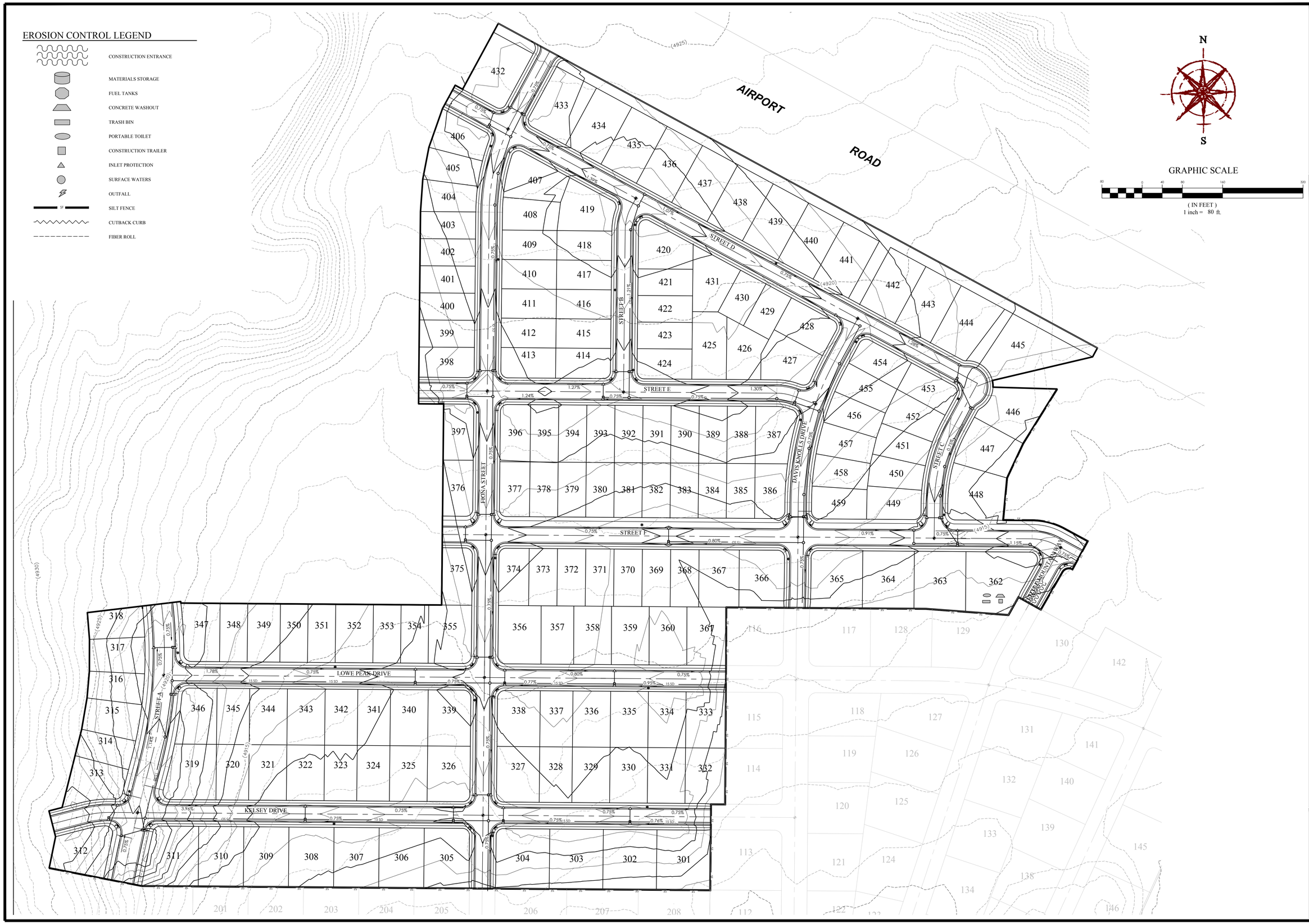
## EROSION CONTROL LEGEND

- CONSTRUCTION ENTRANCE
- MATERIALS STORAGE
- FUEL TANKS
- CONCRETE WASHOUT
- TRASH BIN
- PORTABLE TOILET
- CONSTRUCTION TRAILER
- INLET PROTECTION
- SURFACE WATERS
- OUTFALL
- SILT FENCE
- CUTBACK CURB
- FIBER ROLL

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# Overland Phase B

A PORTION OF THE SW1/4 & THE SE1/4 OF SECTION 36, TOWNSHIP 5 SOUTH, RANGE 2 WEST, SALT LAKE BASE & MERIDIAN, LOCATED IN EAGLE MOUNTAIN, UTAH

## EROSION CONTROL PLAN

REVISION BLOCK

| # | DATE | DESCRIPTION |
|---|---|---|
| 1 | ---- | ---- |
| 2 | ---- | ---- |
| 3 | ---- | ---- |
| 4 | ---- | ---- |
| 5 | ---- | ---- |
| 6 | ---- | ---- |

EROSION CONTROL PLAN

| | | | |
|---|---|---|---|
| Scale: | 1"=80' | Drawn: | AWS |
| Date: | 12/21/17 | Job #: | 17-427 |
| Sheet: | C05 | | |

Z:_2017\17-427 Overland Village 1\design 17-427\dwg\sheet\preliminary\Erosion Control Plan.dwg