

TRAPPERS RIDGE AT WOLF CREEK P.R.U.D., PHASE 8

A PORTION OF THE SOUTHWEST QUARTER OF SECTION 23, AND A PORTION OF THE NORTHWEST QUARTER OF SECTION 26.
TOWNSHIP 7 NORTH, RANGE 1 EAST, SALT LAKE BASE & MERIDIAN
EDEN, COUNTY OF WEBER, STATE OF UTAH
MARCH 2016

LINE	LENGTH	BEARING
L1	151.046	S32°37'36.97"W
L2	23.881	S68°09'13.00"W
L3	15.055	N77°10'22.00"W
L4	14.680	S82°10'15.73"W
L5	171.627	S32°37'36.97"W

CURVE	RADIUS	LENGTH	DELTA	BEARING	CHORD
C1	100.000	24.548	14°03'55"	N67°03'37"W	24.40
C2	100.000	78.928	45°13'22"	N27°24'59"W	76.90
C3	100.000	84.154	48°14'22"	S64°02'02"W	81.73
C4	130.000	62.907	20°50'30"	S53°20'11"W	60.35
C5	130.000	48.544	21°29'48"	S77°27'22"W	48.26
C6	55.000	61.302	63°51'37"	S59°55'01"E	58.18
C7	55.000	61.504	64°56'18"	S34°02'57"W	58.35
C8	55.000	74.749	77°52'09"	S75°01'10"W	69.13
C9	55.000	56.620	58°59'01"	N36°38'10"W	54.15
C10	70.000	58.936	48°14'22"	N64°02'02"E	67.21
C11	70.000	17.184	14°03'55"	N67°03'37"W	17.14
C12	55.000	78.228	81°29'30"	N71°52'11"E	71.80
C13	55.000	59.785	62°16'51"	S36°14'30"E	56.80
C14	55.000	47.676	49°39'07"	S19°43'49"W	46.20
C15	55.000	68.485	71°20'35"	S40°14'03"W	64.15
C16	130.000	31.913	14°03'55"	N67°03'37"W	31.83
C17	130.000	36.018	15°52'28"	N42°09'29"W	35.90
C18	55.000	26.152	27°14'37"	S17°54'27"E	25.91

WEST QUARTER CORNER
SECTION 22, T.7N, R.1E
SALT LAKE BASE & MERIDIAN
IND. 3" BRASS CAP
WEBER COUNTY

BASIS OF BEARING
S89°14'33"E 2659.36'

CENTER CORNER
SECTION 22, T.7N, R.1E
SALT LAKE BASE & MERIDIAN
IND. 3" BRASS CAP
WEBER COUNTY



SURVEYOR'S CERTIFICATE
I, LYLE BISSEGGER, DO HEREBY CERTIFY THAT I AM A REGISTERED LAND SURVEYOR, AND THAT I HOLD CERTIFICATE NO. 37400. AS PRESCRIBED UNDER THE LAWS OF THE STATE OF UTAH. I FURTHER CERTIFY THAT BY AUTHORITY OF THE OWNERS I HAVE MADE A SURVEY OF THE TRACT OF LAND SHOWN ON THIS PLAN AND DESCRIBED BELOW AND THAT THE REFERENCE MARKERS SHOWN ON THIS SUBDIVISION PLAN ARE LOCATED AS INDICATED AND ARE SUFFICIENT TO RETRACE OR REESTABLISH THE SURVEY. THAT THE INFORMATION SHOWN HEREIN IS SUFFICIENT TO ACCURATELY ESTABLISH THE LATERAL BOUNDARIES OF THE BELOW DESCRIBED TRACT OF REAL PROPERTY AND OF EACH OF THE LOTS LOCATED ON SAID TRACT AND THIS SUBDIVISION PLAN COMPLIES WITH THE PROVISIONS OF THE CURRENT SUBDIVISION AND ZONING ORDINANCE REGULATION OF WEBER COUNTY.

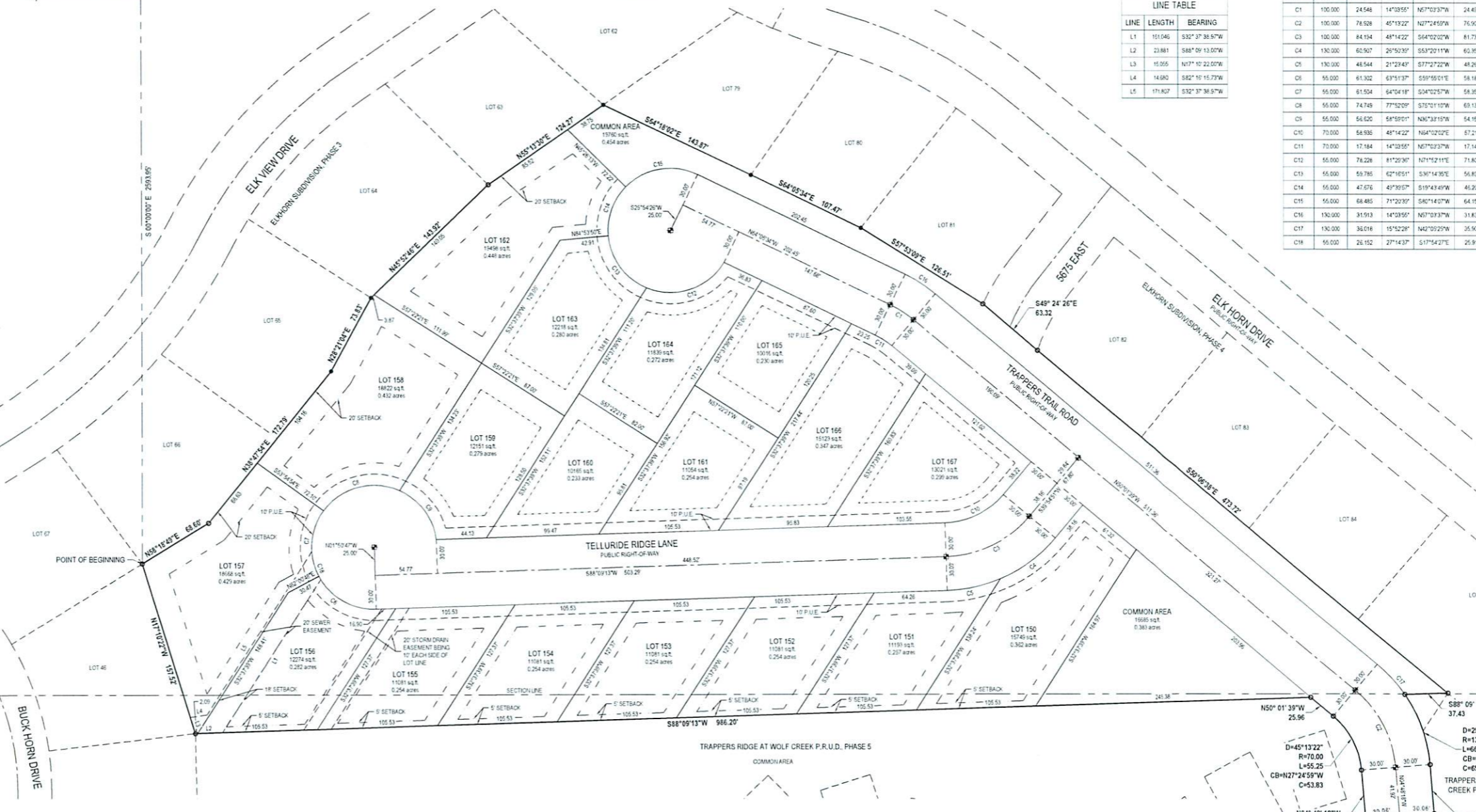
LEGAL DESCRIPTION
A PARCEL OF LAND SITUATED IN THE SOUTHWEST QUARTER OF SECTION 23, AND THE NORTHWEST QUARTER OF SECTION 26, T.7N, R.1E, OF THE SALT LAKE BASE AND MERIDIAN, EDEN, WEBER COUNTY, STATE OF UTAH AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:
BASIS OF BEARING
THE NORTH LINE OF THE SOUTHWEST QUARTER OF SECTION 22, T.7N, R.1E, SALT LAKE BASE AND MERIDIAN, MONUMENTED ON THE WEST BY A 3" BRASS CAP, STAMPED WEBER COUNTY, AND ON THE EAST BY A 3" BRASS CAP, STAMPED WEBER COUNTY, AND IS CONSIDERED TO BEAR S89°14'33"E.
COMMENCING AT THE CENTER CORNER OF SAID SECTION 22, THENCE S90°00'00"E A DISTANCE OF 2123.51 FEET, THENCE S00°00'00"E A DISTANCE OF 2593.95 FEET TO A POINT ON THE EAST LINE OF ELKHORN SUBDIVISION PHASE 3, SAID POINT ALSO BEING THE POINT OF BEGINNING.
THENCE ALONG THE EAST LINE OF SAID ELKHORN SUBDIVISION THE FOLLOWING FIVE (5) COURSES:
THENCE N58°18'49"E A DISTANCE OF 66.80 FEET
THENCE N38°47'54"E A DISTANCE OF 172.79 FEET
THENCE N82°01'04"E A DISTANCE OF 79.87 FEET
THENCE N41°42'40"E A DISTANCE OF 143.92 FEET
THENCE N53°13'30"E A DISTANCE OF 124.27 FEET TO A POINT ON THE SOUTHWEST LINE OF ELKHORN SUBDIVISION PHASE 4
THENCE ALONG THE SOUTHWEST LINE OF SAID ELKHORN SUBDIVISION THE FOLLOWING FIVE (5) COURSES:
THENCE S84°19'02"E A DISTANCE OF 143.87 FEET
THENCE S84°56'34"E A DISTANCE OF 107.47 FEET
THENCE S57°53'02"E A DISTANCE OF 126.51 FEET
THENCE S44°29'27"E A DISTANCE OF 63.32 FEET
THENCE S50°06'38"E A DISTANCE OF 473.72 FEET TO A POINT ON THE NORTH LINE OF TRAPPERS RIDGE AT WOLF CREEK P.R.U.D., PHASE 5.
THENCE S88°09'13"W A DISTANCE OF 37.43 FEET ALONG THE NORTH LINE OF SAID TRAPPERS RIDGE AT WOLF CREEK P.R.U.D., PHASE 5.
THENCE ALONG SAID CURVE TO THE RIGHT WHOSE CENTER BEARS S55°00'49"W HAVING A RADIUS OF 130.00 FEET A CENTRAL ANGLE OF 29°20'53" AND A LENGTH OF 55.65 FEET.
THENCE S04°48'18"E A DISTANCE OF 43.53 FEET TO A POINT ON THE NORTHERLY RIGHT OF WAY LINE OF BIG HORN PARKWAY SAID POINT ALSO BEING POINT OF CURVATURE.
THENCE ALONG SAID CURVE TO THE LEFT AND ALONG SAID NORTHERLY RIGHT OF WAY WHOSE CENTER BEARS S01°20'44"W HAVING A RADIUS OF 280.00 FEET, A CENTRAL ANGLE OF 17°18'06" AND A LENGTH OF 60.12 FEET
THENCE N04°48'18"W A DISTANCE OF 43.53 FEET TO A POINT OF CURVATURE.
THENCE ALONG SAID CURVE TO THE LEFT WHOSE CENTER BEARS S65°11'42"W HAVING A RADIUS OF 70.00 FEET, A CENTRAL ANGLE OF 46°13'22" AND A LENGTH OF 55.25 FEET.
THENCE N00°01'39"W A DISTANCE OF 25.96 TO A POINT ON THE NORTH LINE OF TRAPPERS RIDGE AT WOLF CREEK P.R.U.D., PHASE 5.
THENCE S88°09'13"W A DISTANCE OF 96.20 FEET ALONG THE NORTH LINE OF SAID TRAPPERS RIDGE AT WOLF CREEK P.R.U.D. TO A POINT ON THE EAST LINE OF ELKHORN SUBDIVISION PHASE 3 OR 6.
THENCE N17°10'22"W A DISTANCE OF 157.52 FEET ALONG THE EAST LINE OF SAID ELKHORN SUBDIVISION TO THE POINT OF BEGINNING.
CONTAINING 376,390 SQUARE FEET OR 8.618 ACRES MORE OR LESS.

OWNERS DEDICATION
WE, THE UNDERSIGNED OWNERS OF THE HEREON DESCRIBED TRACT OF LAND, HEREBY SET APART AND SUBDIVIDE THE SAME INTO LOTS AND STREETS AS SHOWN ON THIS PLAN AND NAME SAID TRACT:
TRAPPERS RIDGE AT WOLF CREEK P.R.U.D., PHASE 8
AND DO HEREBY DEDICATE, GRANT AND CONVEY TO WEBER COUNTY, UTAH ALL THOSE PORTS OR PORTIONS OF SAID TRACT OF LAND DESIGNATED AS STREETS THE SAME TO BE USED AS PUBLIC THOROUGHFARES FOREVER.
AND HEREBY GRANT AND DEDICATE A PERPETUAL RIGHT AND EASEMENT OVER, UPON AND UNDER THE LANDS DESIGNATED ON THE PLAN AS PUBLIC UTILITY, STORM WATER DETENTION PONDS, DRAINAGE AND CANAL MAINTENANCE EASEMENTS, THE SAME TO BE USED FOR THE INSTALLATION, MAINTENANCE, AND OPERATION OF PUBLIC UTILITY SERVICE LINES, STORM DRAINAGE FACILITIES, IRRIGATION CANALS OR FOR THE PERPETUAL PRESERVATION OF WATER DRAINAGE CHANNELS IN THEIR NATURAL STATE WHOEVER IS APPLICABLE AS MAY BE AUTHORIZED BY WEBER COUNTY, UTAH, WITH NO BUILDINGS OR STRUCTURES BEING ERRECTED WITHIN SUCH EASEMENTS.

SIGNED THIS THE _____ DAY OF _____, 2016

EDEN VILLAGE LLC
RUSS WATTS, MANAGING MEMBER

ACKNOWLEDGMENT
STATE OF UTAH)
COUNTY OF WEBER) 55
ON THIS _____ DAY OF _____, 2016
ON THE _____ DAY OF _____, 2016, PERSONALLY APPEARED BEFORE ME RUSS WATTS, WHO BEING BY ME DULY KNOWN TO SAID THAT HE IS A MEMBER OF EDEN VILLAGE, L.L.C. AND THAT SAID L.L.C. WAS SIGNED IN BEHALF OF SAID L.L.C. BY A RESOLUTION OF ITS MEMBERS AND RUSS WATTS ACKNOWLEDGED TO ME THAT SAID L.L.C. EXECUTED THE SAME.
NOTARY PUBLIC:



PLAT NOTES
1. UNLESS OTHERWISE DIMENSIONED ON THIS PLAT, SETBACKS FOR THIS SUBDIVISION ARE AS FOLLOWS: FRONT- 20 FEET, REAR- 20 FEET, SIDE- 12 FEET. SIDE FACING STREET ON COMMON LOT- 20 FEET
2. THIS PLAT IS SUBJECT TO THAT CERTAIN DECLARATION OF COVENANTS, CONDITIONS, EASEMENTS AND RESTRICTIONS FOR _____ (DECLARANT) EXECUTED BY _____ EDEN VILLAGE LLC (DECLARANT) THAT HAS BEEN RECORDED IN THE OFFICE OF THE WEBER COUNTY RECORDER WHICH SETS FORTH THE RESTRICTIONS AND GENERAL PLAN OF IMPROVEMENT FOR THE PROPERTY DESCRIBED IN THIS PLAT. CERTAIN TERMS NOT OTHERWISE DEFINED IN THIS PLAT SHALL HAVE THE MEANINGS SET FORTH IN THE DECLARATION.
3. PURSUANT TO THE DECLARATION, THE _____ OWNERS ASSOCIATION, INC., A UTAH NONPROFIT CORPORATION (COMMUNITY ASSOCIATION) IS RESPONSIBLE FOR MAINTAINING ALL COMMON AREAS, IF ANY, AND SHALL HAVE A PERPETUAL, NON-EXCLUSIVE EASEMENT OVER ALL PARCELS FOR SUCH MAINTENANCE PURPOSES AS FURTHER DESCRIBED IN THE DECLARATION.
4. THE PROPERTY AS DEPICTED ON THIS PLAT IS SUBJECT TO THE RIGHTS OF DECLARANT AS DESCRIBED IN THE DECLARATION. AND DECLARANT SHALL HAVE THE RIGHT TO EXERCISE ANY APPLICABLE RIGHTS PROVIDED THEREIN, INCLUDING, WITHOUT LIMITATION, RESERVATION AND GRANTING OF CERTAIN EASEMENTS, RESERVING OR RELOCATING IMPROVEMENTS WITHIN THE COMMONITY, ADDING ADDITIONAL FACILITIES AND MAKING SUCH OTHER DEVELOPMENT DECISIONS AND CHANGES AS DECLARANT SHALL DETERMINE IN HIS SOLE AND EXCLUSIVE DISCRETION.
5. AS FURTHER DESCRIBED IN THE DECLARATION, ALL LOTS, AND ALL RESIDENCES AND IMPROVEMENTS CONSTRUCTED THEREON, SHALL COMPLY WITH THE DESIGN GUIDE. NO CONSTRUCTION, INSTALLATION, OR OTHER WORK WHICH IN ANY WAY ALTERS THE APPEARANCE OF ANY PROPERTY OR LOT WITHIN THE PROJECT, OR ANY RESIDENCES OR IMPROVEMENTS LOCATED THEREON, SHALL BE MADE OR DONE WITHOUT COMPLIANCE WITH THE DESIGN GUIDE AS DESCRIBED IN THE DECLARATION.

NARRATIVE
THIS SURVEY AND SUBSEQUENT SUBDIVISION PLAT WERE COMPLETED AT THE REQUEST OF THE 'EDEN VILLAGE LLC' FRO THE PURPOSE OF SUBDIVIDING THEIR PROPERTY TO CREATE RESIDENTIAL LOTS.
BASIS OF BEARING
THE NORTH LINE OF THE SOUTHWEST QUARTER OF SECTION 22, T.7N, R.1E, SALT LAKE BASE AND MERIDIAN, MONUMENTED ON THE WEST BY A 3" BRASS CAP, STAMPED WEBER COUNTY, AND ON THE EAST BY A 3" BRASS CAP, STAMPED WEBER COUNTY, AND IS CONSIDERED TO BEAR S89°14'33"E.



LEGEND

- ADJUTANT CORNER (AS DESCRIBED)
- FOUND MONUMENT 5/8 REBAR AND CAP (GARDNER ENCL)
- SET MONUMENT 5/8 REBAR AND CAP (NO. 3809)
- PROPOSED CENTERLINE MONUMENT
- PROPOSED BOUNDARY LIMITS
- PROPOSED LOT LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING BOUNDARY
- EXISTING LOT LINE
- EXISTING RIGHT OF WAY LINE
- SET BACK LINE

TRAPPERS RIDGE AT WOLF CREEK P.R.U.D., PHASE 8
A PORTION OF THE SOUTHWEST QUARTER OF SECTION 23, AND A PORTION OF THE NORTHWEST QUARTER OF SECTION 26, TOWNSHIP 7 NORTH, RANGE 1 EAST, SALT LAKE BASE & MERIDIAN
EDEN, COUNTY OF WEBER, STATE OF UTAH
DEVELOPER
EDEN VILLAGE LLC
5200 S. HIGHLAND DRIVE STE 101
SALT LAKE CITY, UT 84117

WEBER COUNTY ATTORNEY
I HAVE EXAMINED THE FINANCIAL GUARANTEE AND OTHER DOCUMENTS ASSOCIATED WITH THIS SUBDIVISION PLAN AND IN MY OPINION THEY CONFORM WITH THE COUNTY ORDINANCE APPLICABLE THERETO AND NOW IN CONFORM AFFECT.
SIGNED THIS _____ DAY OF _____, 20_____
SIGNATURE _____

WEBER COUNTY SURVEYOR
I HEREBY CERTIFY THAT THE WEBER COUNTY SURVEYOR'S OFFICE HAS REVIEWED THIS PLAT FOR MATHEMATICAL CORRECTNESS, SECTION CORNER DATA AND FOR HARMONY WITH LINES AND MONUMENTS ON RECORD IN THE COUNTY OFFICES. THE APPROVAL OF THIS PLAT BY THE WEBER COUNTY SURVEYORS DOES NOT RELIEVE THE LICENSED LAND SURVEYOR WHO EXECUTED THIS PLAT FROM RESPONSIBILITIES AND/OR LIABILITIES ASSOCIATED THEREWITH. SIGNED THIS _____ DAY OF _____, 20_____
SIGNATURE _____
COUNTY SURVEYOR

WEBER COUNTY ENGINEER
I HEREBY CERTIFY THAT THE REQUIRED PUBLIC IMPROVEMENT STANDARDS AND DRAWINGS FOR THIS SUBDIVISION CONFORM WITH COUNTY STANDARDS AND THE AMOUNT OF THE FINANCIAL GUARANTEE IS SUFFICIENT FOR THE INSTALLATION OF THESE IMPROVEMENTS.
SIGNED THIS _____ DAY OF _____, 20_____
SIGNATURE _____

WEBER COUNTY PLANNING COMMISSION APPROVAL
THIS IS TO CERTIFY THAT THIS SUBDIVISION PLAT WAS DULY APPROVED BY THE WEBER COUNTY PLANNING COMMISSION ON THE DAY OF _____, 20_____
CHAIRMAN- WEBER COUNTY PLANNING COMMISSION

WEBER COUNTY COMMISSION ACCEPTANCE
THIS IS TO CERTIFY THAT THIS SUBDIVISION PLAT, THE DEDICATION OF THE STREETS AND OTHER PUBLIC WAYS AND FINANCIAL GUARANTEE OF PUBLIC IMPROVEMENTS ASSOCIATED WITH THIS SUBDIVISION THEREON ARE HEREBY APPROVED AND ACCEPTED BY THE COMMISSIONERS OF WEBER COUNTY, UTAH THIS _____ DAY OF _____, 20_____
CHAIRMAN, WEBER COUNTY COMMISSION
ATTEST:
TITLE: _____

RECORDED
STATE OF UTAH, COUNTY OF WEBER,
RECORDED AND FILED AT THE
REQUEST OF _____
ENTRY NO. _____
DATE _____ TIME _____
BOOK _____ PAGE _____
FEE \$ _____
WEBER COUNTY RECORDER

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**WATTS ENTERPRISES
 TRAPPERS RIDGE AT WOLF CREEK
 P.R.U.D. PHASE 8
 REVIEW PLANS**

PROJECT CONTACTS

OWNER
 WATTS ENTERPRISES
 5300 SOUTH HIGHLAND DRIVE, SUITE 101
 SALT LAKE CITY, UT 84117
 TEL: (801) 891-4880
 CONTACT: ROCK EVERSON
 EMAIL: ROCK@WATTSENTERPRISES.COM

ENGINEER/CONSULTANT

GALLOWAY & COMPANY, INC.
 515 SOUTH 700 EAST, SUITE 3F
 SALT LAKE CITY, UT 84102
 TEL: (801) 954-1957
 FAX: (303) 770-3636
 CONTACT: JEREMY TOOME
 EMAIL: JEREMYTOOME@GALLOWAYUS.COM

~~**PLANNER**~~

~~LANDMARK DESIGN GROUP
 225 WEST 200 SOUTH
 SALT LAKE CITY, UT 84102
 TEL: (801) 565-4289
 FAX:
 CONTACT: ERIC LANGVAHOT
 EMAIL:~~

LANDSCAPE ARCHITECT

GALLOWAY & COMPANY, INC.
 5300 DTC PARKWAY, SUITE 100
 GREENWOOD VILLAGE, COLORADO 80111
 TEL: (303) 770-8884
 FAX: (303) 770-3636
 CONTACT:

SURVEYOR

GALLOWAY & COMPANY, INC.
 515 SOUTH 700 EAST, SUITE 3F
 SALT LAKE CITY, UT 84102
 TEL: (801) 954-1957
 FAX: (303) 770-3636
 CONTACT: NATE CHRISTENSEN
 EMAIL: NATECHRISTENSEN@GALLOWAYUS.COM

GEOTECHNICAL ENGINEER

CENTURYLINK LOCAL NETWORK
 TEL: (801) 974-4333
 CONTACT: ARLENE DENNEY
 EMAIL: ARLENE.DENNEY@CENTURYLINK.COM

UTILITY CONTACTS

WATER
 WOLF CREEK WATER & SEWER IMPROVEMENT DISTRICT
 3032 NORTH WOLF CREEK DRIVE
 EDEN, UT 84310
 TEL: (801) 745-3420
 CONTACT: ROB THOMAS
 EMAIL: RTHOMAS@WCWSID.COM

SANITARY SEWER
 WOLF CREEK WATER & SEWER IMPROVEMENT DISTRICT
 3032 NORTH WOLF CREEK DRIVE
 EDEN, UT 84310
 TEL: (801) 745-3420
 CONTACT: ROB THOMAS
 EMAIL: RTHOMAS@WCWSID.COM

STORM SEWER

DEER COUNTY
 2380 WASHINGTON BLVD, SUITE 240
 OGDEN, UT 84401
 TEL: (801) 399-8374
 CONTACT: BLAINE FRANSEN
 EMAIL: BFRANSEN@CO.WEBER.UT.US

ELECTRIC

ROCKY MOUNTAIN POWER
 1407 WEST NORTH TEMPLE
 SALT LAKE CITY, UT 84116
 TEL: (801) 813-4993
 CONTACT: JOEL SIMMONS
 EMAIL: JOESIMP@RMP.COOP.COM

GAS

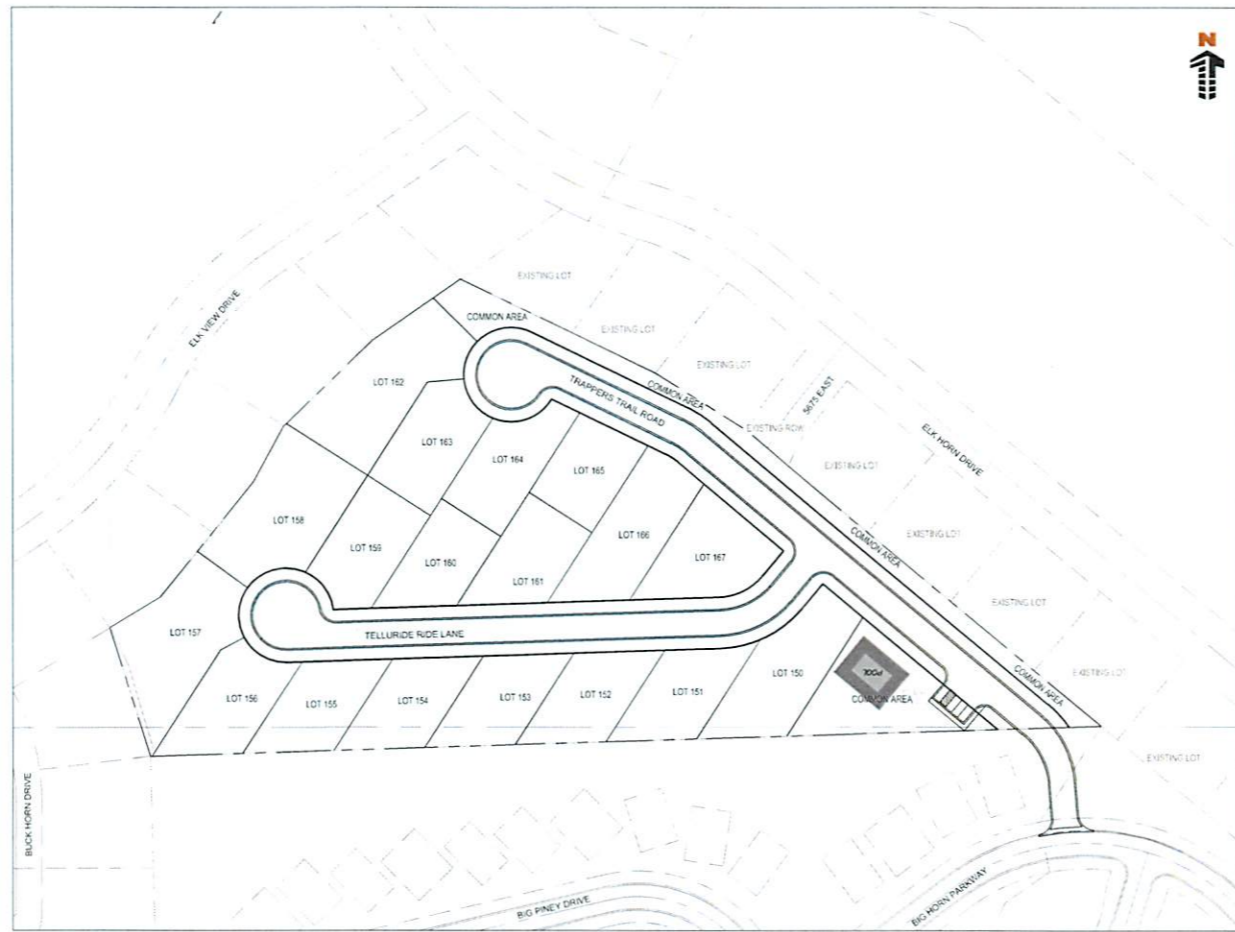
QUESTAR GAS COMPANY
 333 SOUTH STATE STREET
 SALT LAKE CITY, UT 84143
 TEL: (801) 324-3070
 CONTACT: MAPPING DEPT.

TELEPHONE

CENTURYLINK LOCAL NETWORK
 TEL: (801) 974-4333
 CONTACT: ARLENE DENNEY
 EMAIL: ARLENE.DENNEY@CENTURYLINK.COM

FIRE

WEBER FIRE DISTRICT
 2022 WEST 1300 NORTH
 OGDEN, UT 84404
 TEL: (801) 782-3565
 CONTACT:



SITE MAP
 SCALE: 1"=100'

SHEET INDEX	
SHEET NUMBER	SHEET TITLE
C0.0	COVER SHEET
SP1.0	EXISTING CONDITIONS PLAN
SP2.0	OVERALL SITE PLAN
UT1.0	OVERALL UTILITY PLAN
GR1.0	OVERALL GRADING PLAN
PP1.0	PLAN & PROFILE - ROAD 1 - STA: 9+00 TO 14+00
PP1.1	PLAN & PROFILE - ROAD 1 - STA: 14+00 TO 19+4.20
PP2.0	PLAN & PROFILE - TELLURIDE LANE - STA: 3+00 TO 44+00
PP2.1	PLAN & PROFILE - TELLURIDE LANE - STA: 44+00 TO 45+80.28
EC.1	EROSION CONTROL PLAN
EC.2	EROSION CONTROL DETAILS (APWA)
EC.3	EROSION CONTROL DETAILS (APWA)
EC.4	EROSION CONTROL DETAILS (APWA)
DT01	SANITARY SEWER DETAILS (APWA)
DT02	SANITARY SEWER DETAILS (APWA)
DT03	WATER DETAILS (ACWSID)
DT04	STORM DRAIN DETAILS (APWA)
DT05	STORM DRAIN DETAILS (APWA)
DT06	STORM DRAIN DETAILS (APWA)

GENERAL CONSTRUCTION NOTES

ALL IRRIGATION PIPE AND FITTINGS ARE TO MEET WOLF CREEK WATER & SEWER IMPROVEMENT DISTRICT STANDARDS AND SPECIFICATIONS.
 ALL IRRIGATION PIPING AND FITTINGS IS TO BE C-90 PVC AND MUELLER FITTINGS (TEES, HYDRANTS, VALVES, ETC. UNLESS APPROVED OTHERWISE BY THE ENGINEER.
 ALL CULINARY WATER PIPE AND FITTINGS IS TO BE C-90 PVC AND MUELLER FITTINGS (TEES, HYDRANTS, VALVES, ETC. UNLESS APPROVED OTHERWISE BY THE ENGINEER.
 ALL IRRIGATION LINES ARE REQUIRED TO MAINTAIN A MINIMUM OF 3' OF COVER TO FINISH GRADE.
 ALL CULINARY LINES ARE REQUIRED TO MAINTAIN A MINIMUM OF 5' OF COVER TO FINISH GRADE.
 REFERENCE WOLF CREEK WATER & SEWER IMPROVEMENT DISTRICT (WCWSID) STANDARDS AND SPECIFICATIONS FOR ALL WATER, SEWER, AND SECONDARY IRRIGATION IMPROVEMENTS.
 REFERENCE THE LATEST EDITION OF THE APWA (AND ALL AMENDMENTS) FOR STORM DRAIN IMPROVEMENTS.

JURISDICTIONAL CONSTRUCTION NOTES

(Empty box for jurisdictional notes)



VICINITY MAP
 NOT TO SCALE

BENCHMARK

BENCHMARK: ADAMS COUNTY SURVEY MARK #218
 3.14" ALUMINUM CAP STAMPED "165191" 190' 238MM SPPACRO NW 1/4 OF THE INTERSECTION OF CHAMBERS ROAD AND E 10TH AVENUE, 107 FEET NORTH OF THE CENTERLINE OF E. 110TH AVE. AND 50 FEET WEST OF THE CENTERLINE OF CHAMBERS ROAD.
 ELEVATION: 5433.88 (NWG 1988 DATUM)

NOTE: CONTRACTOR RESPONSIBLE FOR AS-BUILT DRAWINGS, TESTS, REPORTS AND/OR ANY OTHER CERTIFICATES OR INFORMATION AS REQUIRED FOR ACCEPTANCE OF WORK FROM CITY, UTILITY DISTRICTS OR ANY OTHER GOVERNING AGENCY.

NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.

BASIS OF BEARING

BEARINGS SHOWN HEREON ARE BASED ON THE SOUTH LINE OF THE SE 1/4 OF SECTION 7, T.2S. R.60E. OF THE 6TH PM. BEARING 88°22'14" IS MONUMENTED BY THE MONUMENTS SHOWN HEREON.

CAUTION - NOTICE TO CONTRACTOR

1. ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT. PRIOR TO CONSTRUCTION, REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.

2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POT-HOULING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.



#	Date	Issue / Description	Int.

Project No: WAT02.01
 Drawn By: JST
 Checked By: RMP
 Date: 03/09/2016

SHEET TITLE:
 COVER SHEET

C0.0

WATTS ENTERPRISES
 TRAPPERS RIDGE AT WOLF CREEK
 P.R.U.D. PHASE 8
 EDEN, UTAH 84310



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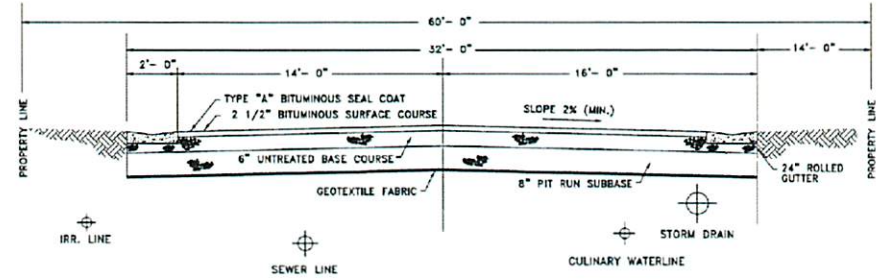
WATTS ENTERPRISES
 TRAPPERS RIDGE AT WOLF CREEK
 P.R.U.D. PHASE 8
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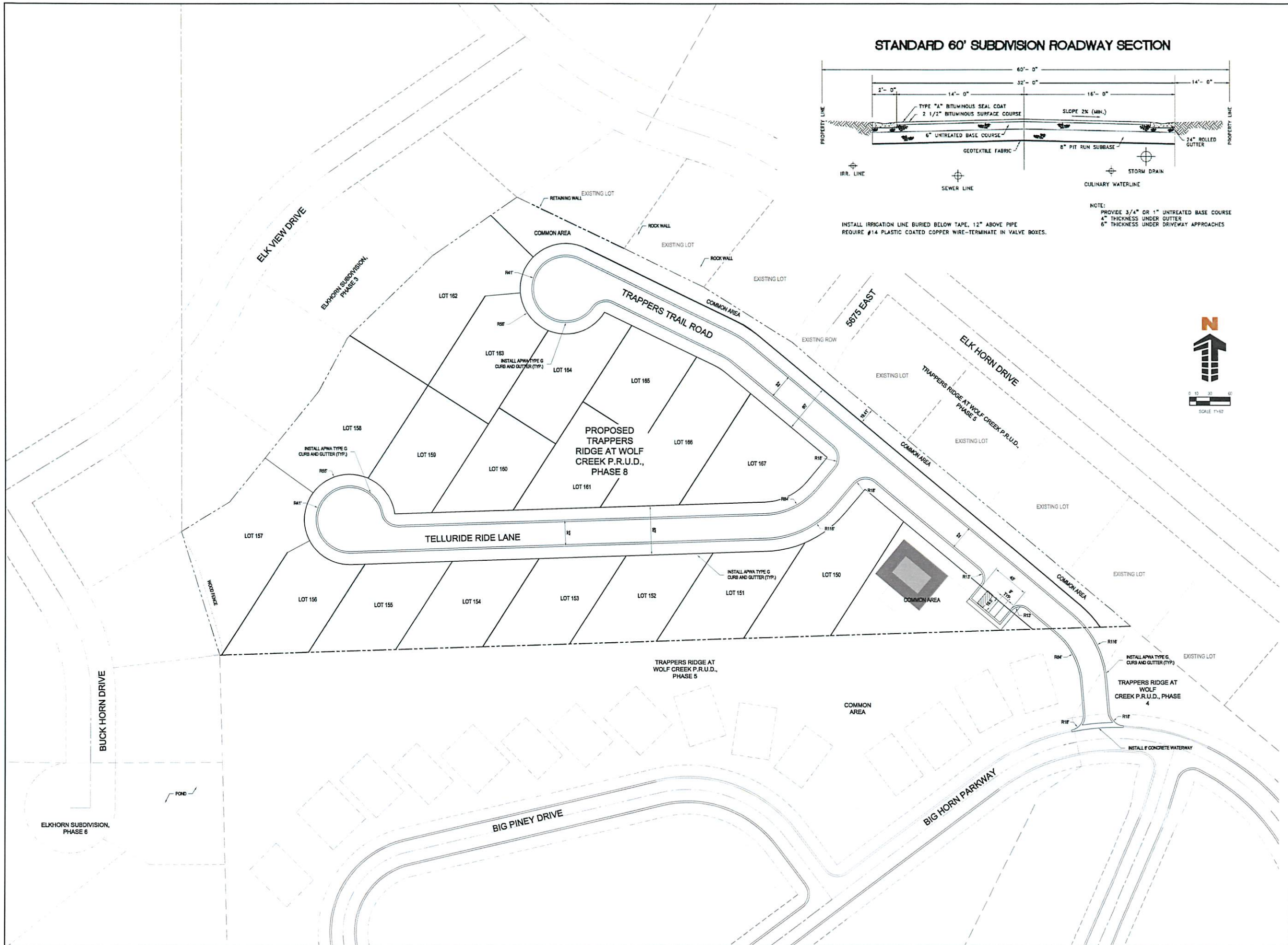
Project No.	###
Drawn By	JST
Checked By	RMP
Date	03/09/2016

SHEET TITLE:
 OVERALL SITE PLAN

STANDARD 60' SUBDIVISION ROADWAY SECTION



NOTE:
 PROVIDE 3/4" OR 1" UNTREATED BASE COURSE
 4" THICKNESS UNDER GUTTER
 6" THICKNESS UNDER DRIVEWAY APPROACHES
 INSTALL IRRIGATION LINE BURIED BELOW TAPE, 12" ABOVE PIPE
 REQUIRE #14 PLASTIC COATED COPPER WIRE-TERMINATE IN VALVE BOXES.





SCALE: 1"=50'

Galloway

Planning, Architecture, Engineering

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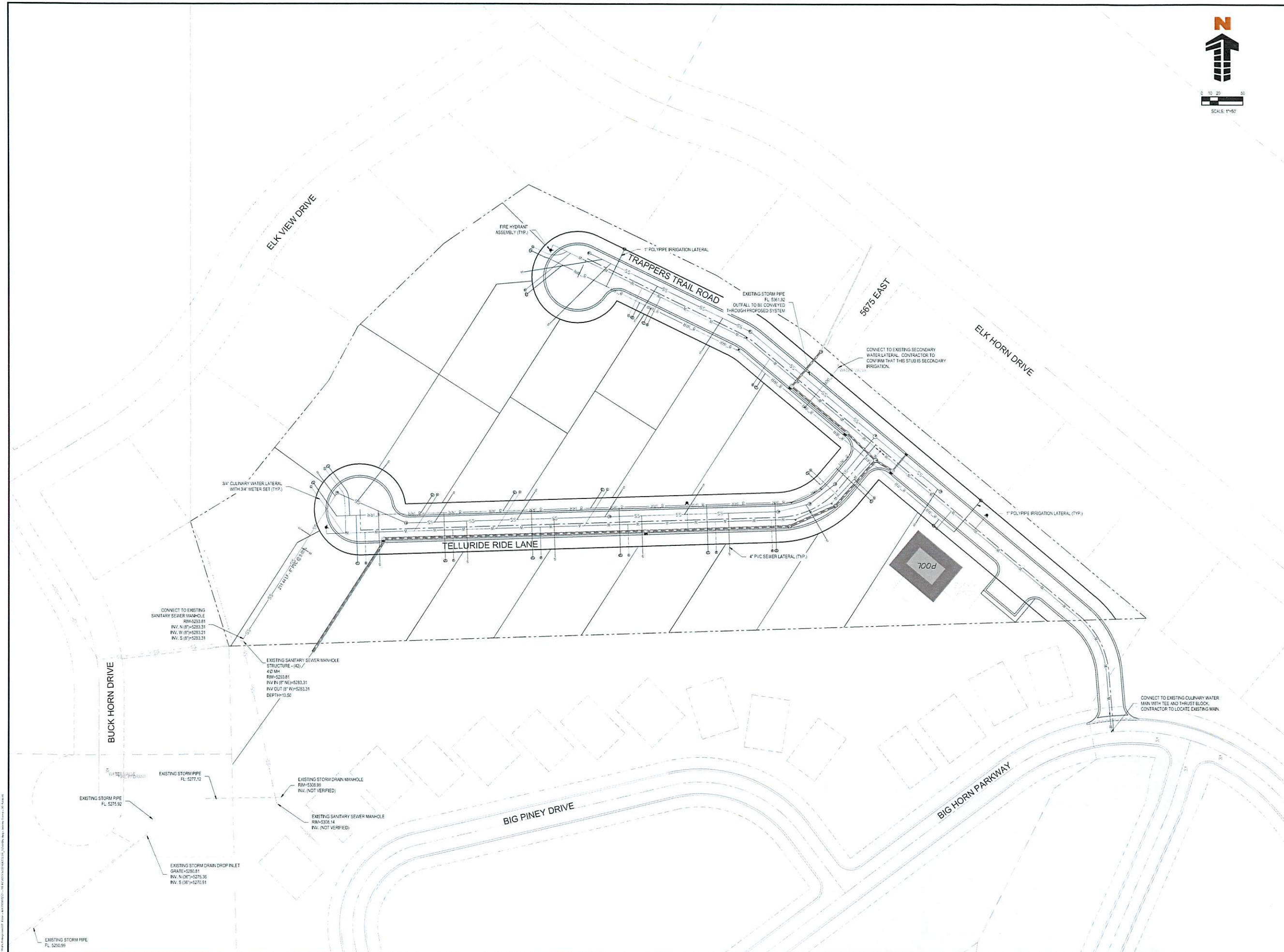
#	Date	Issue / Description	Int.

Project No: **8888**
 Drawn By: **JST**
 Checked By: **RMP**
 Date: **03/09/2016**

SHEET TITLE:
OVERALL UTILITY PLAN

UT1.0

Sheet X of X

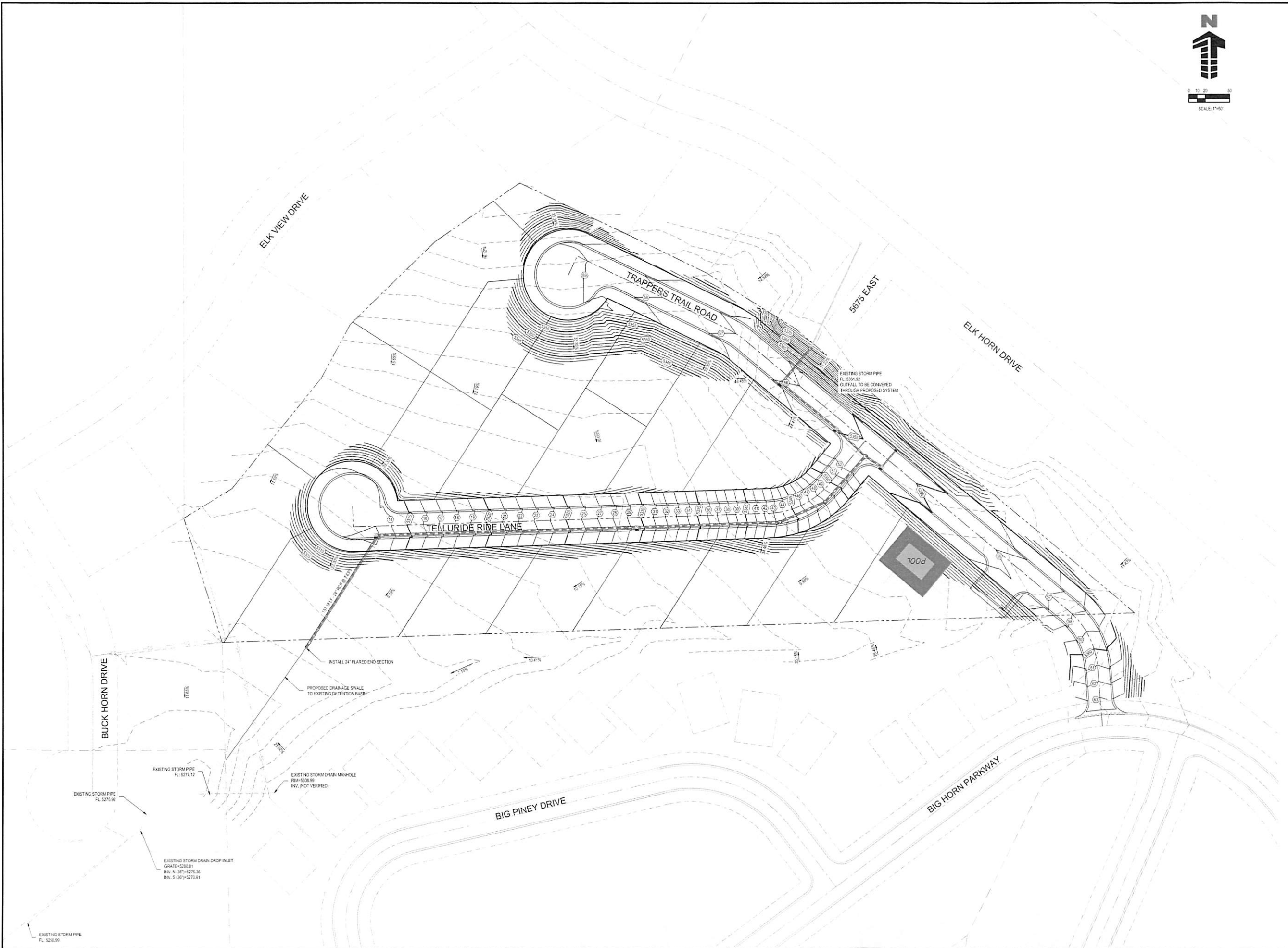




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WATTS ENTERPRISES
 TRAPPERS RIDGE AT WOLF CREEK
 P.R.U.D. PHASE 8

EDEN, UTAH 84310

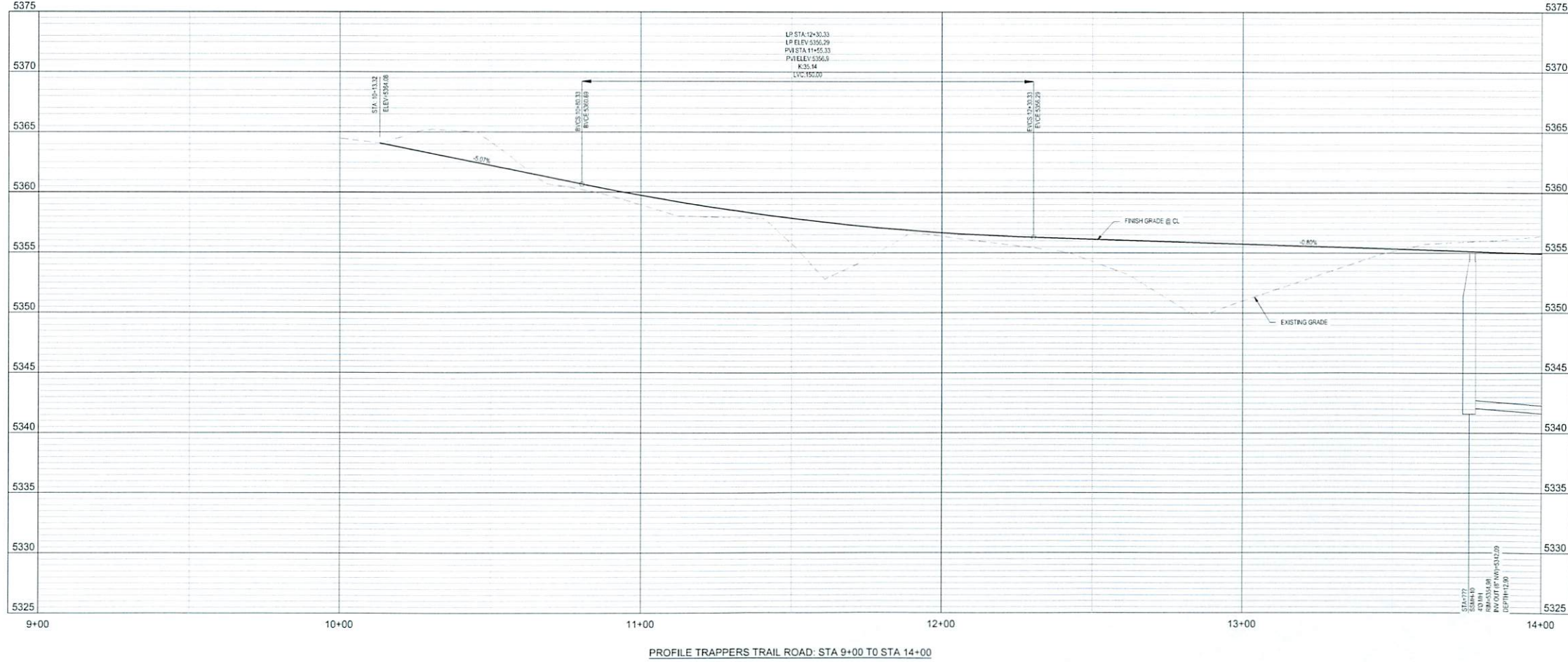
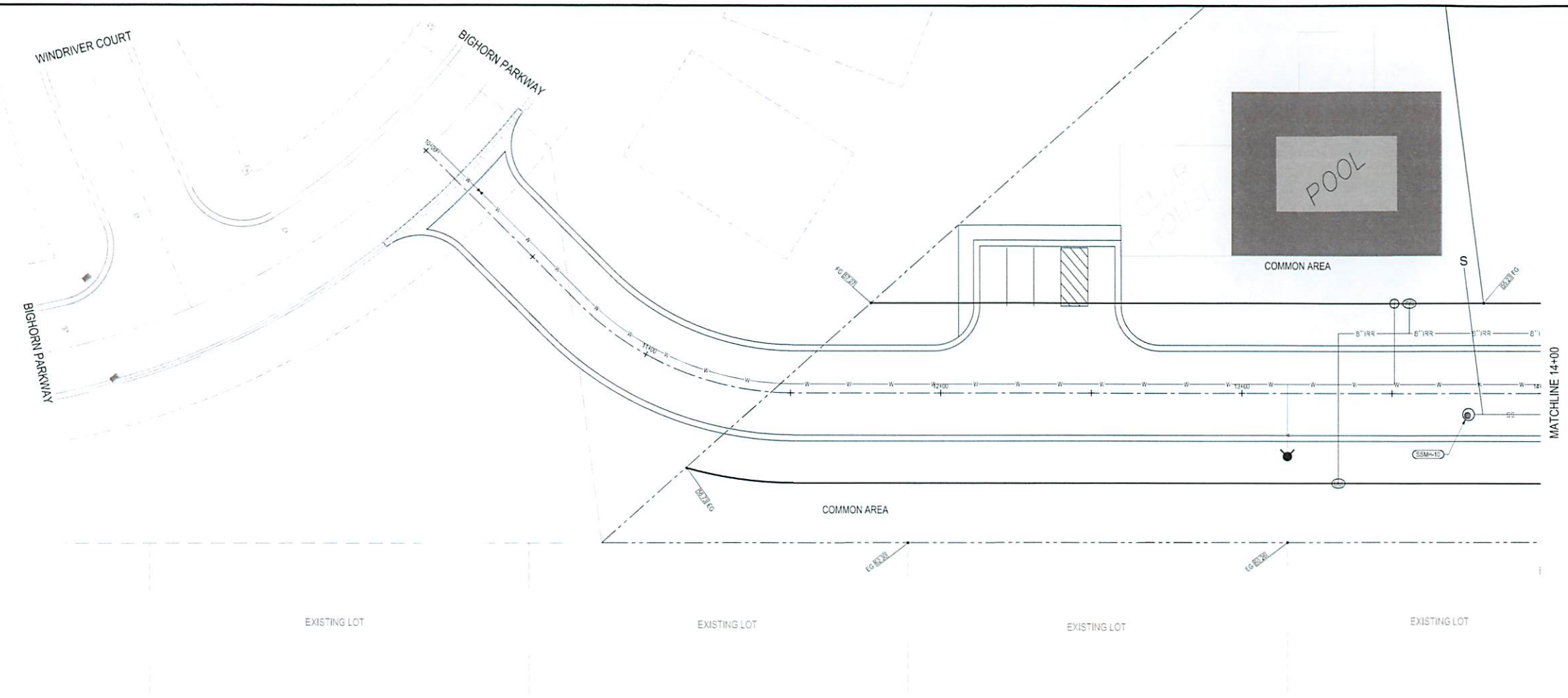


#	Date	Issue / Description	Int.

Project No: 4444
 Drawn By: JST
 Checked By: RMP
 Date: 03/09/2016

SHEET TITLE:
 OVERALL GRADING PLAN

GR1.0
 Sheet X of X



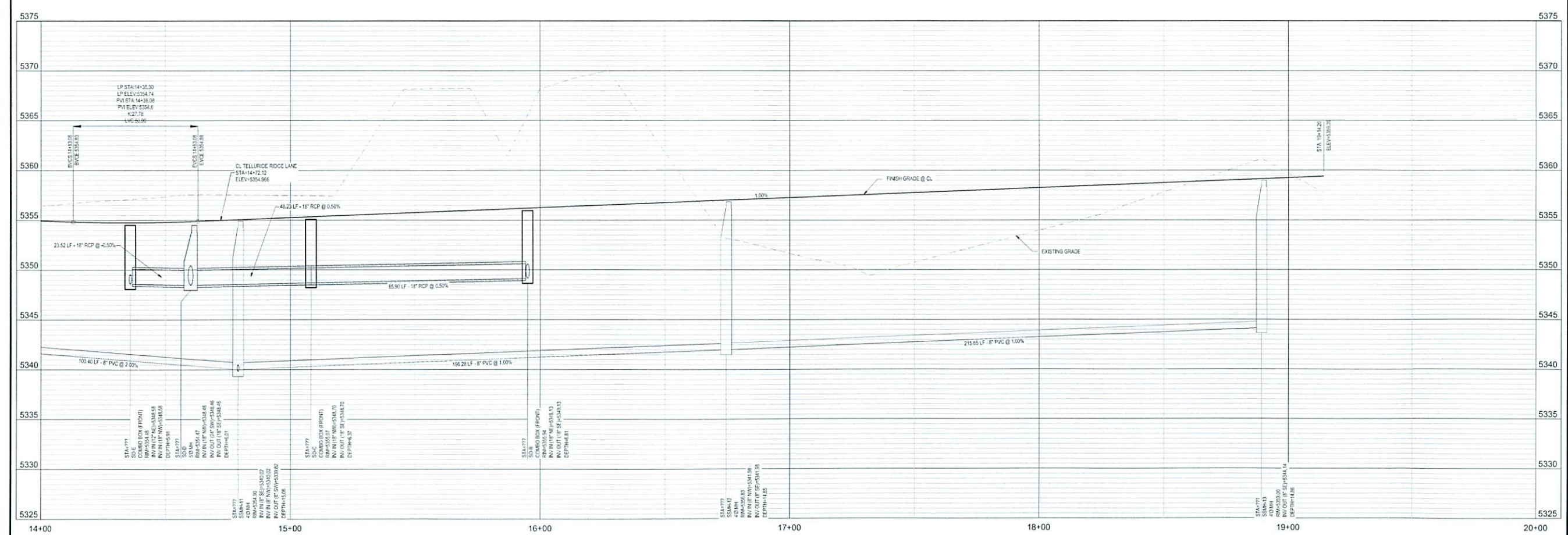
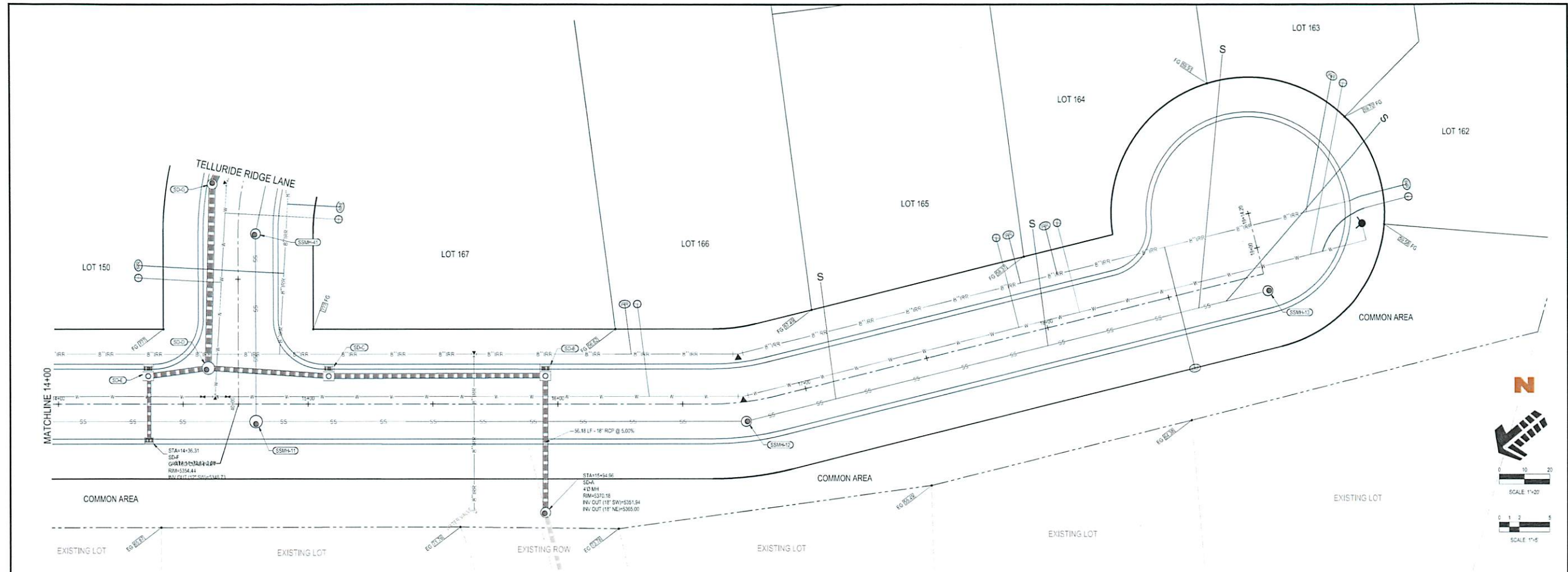
PROFILE TRAPPERS TRAIL ROAD: STA 9+00 TO STA 14+00

WATTS ENTERPRISES
 TRAPPERS RIDGE AT WOLF CREEK
 P.R.U.D. PHASE 8
 EDEN, UTAH 84310

#	Date	Issue / Description	Int.

Project No: WAT02.01
 Drawn By: JST
 Checked By: RMP
 Date: 03/09/2016

SHEET TITLE:
 PLAN & PROFILE
 TRAPPERS TRAIL ROAD



PROFILE TRAPPERS TRAIL ROAD: STA 14+00 TO STA 20+00

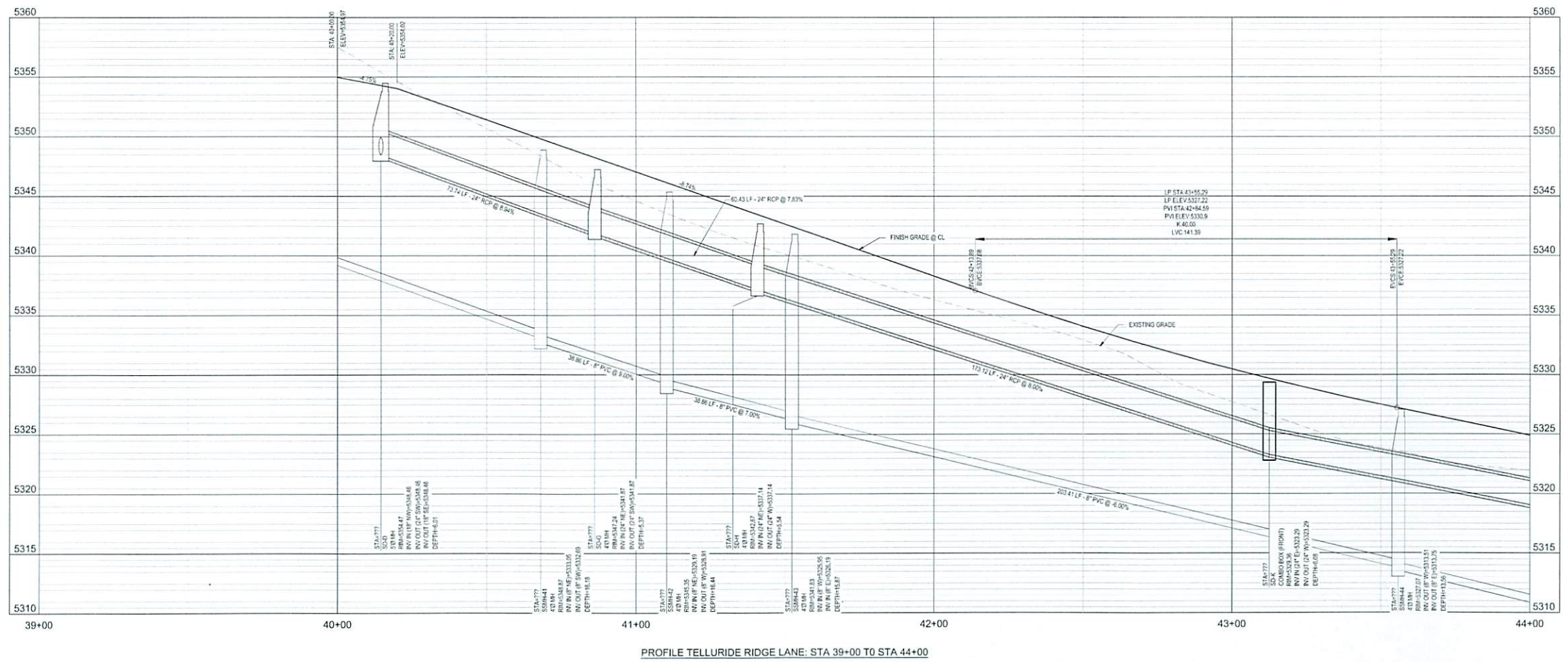
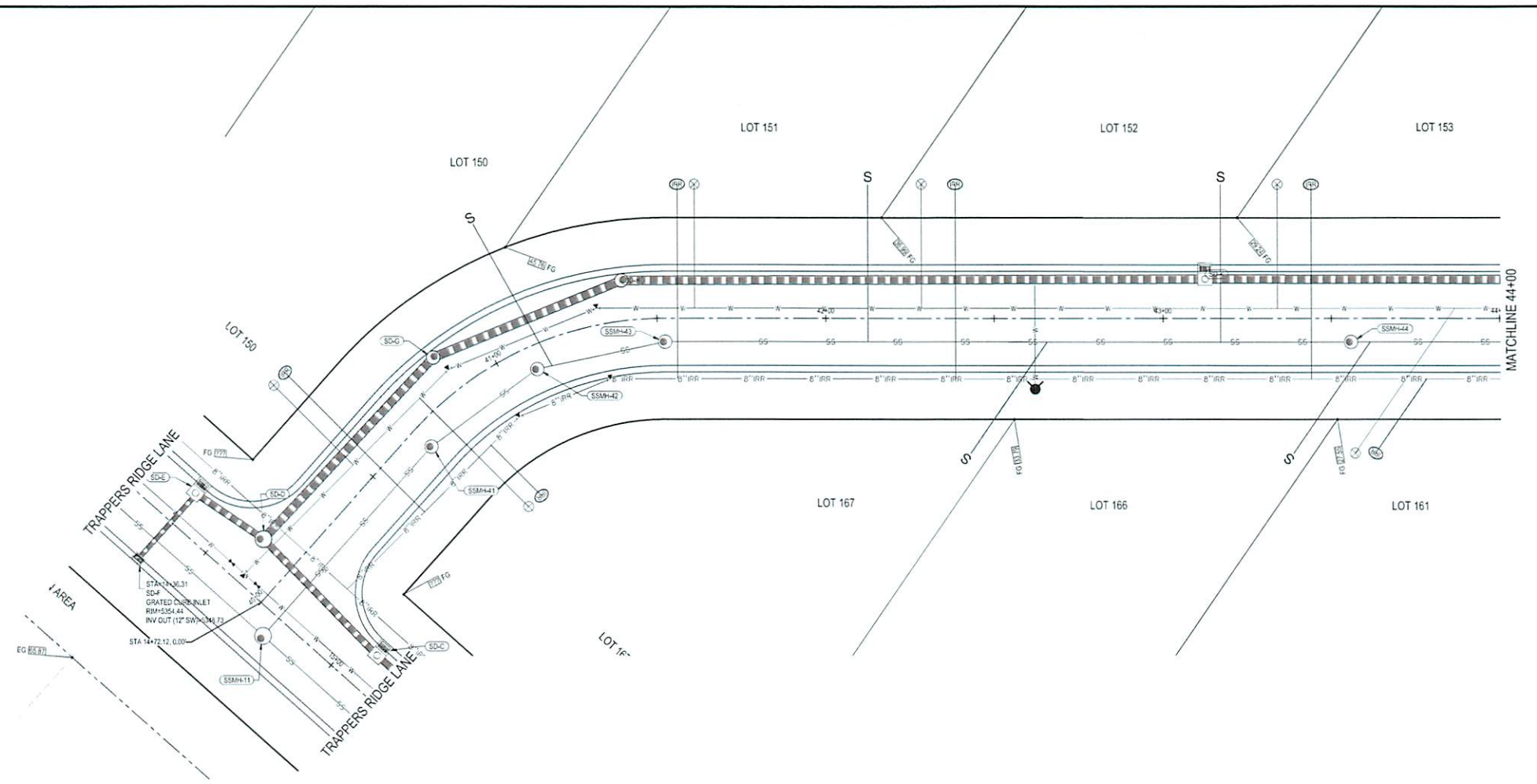
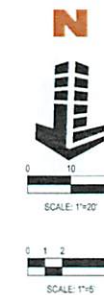
WATTS ENTERPRISES
 TRAPPERS RIDGE AT WOLF CREEK
 P.R.U.D. PHASE 8
 EDEN, UTAH 84310

#	Date	Issue / Description	Init.

Project No: WAT02.01
 Drawn By: JST
 Checked By: RMP
 Date: 03/09/2016

SHEET TITLE:
 PLAN & PROFILE
 TRAPPERS TRAIL ROAD

PP1.1
 Sheet X of X

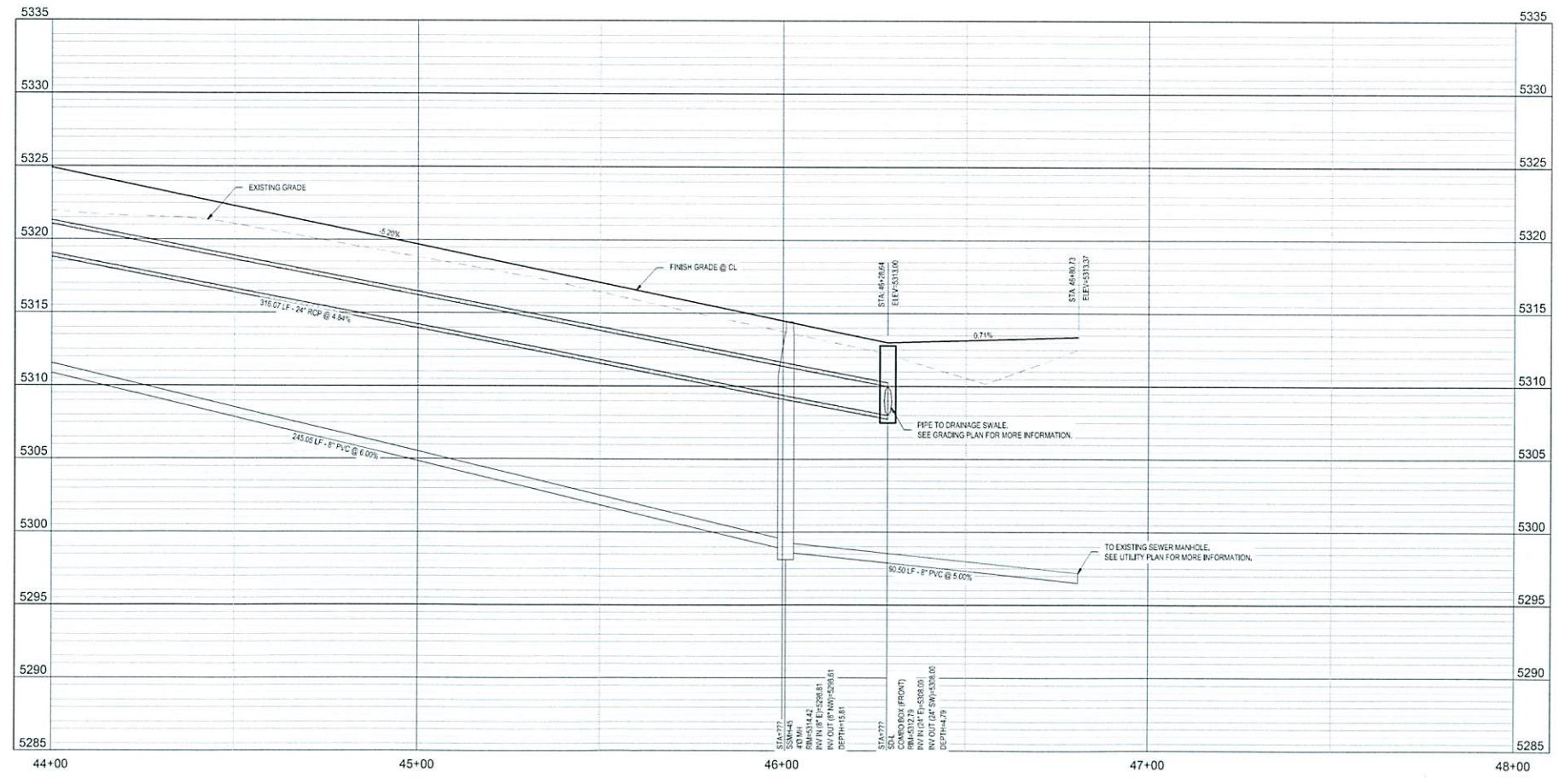
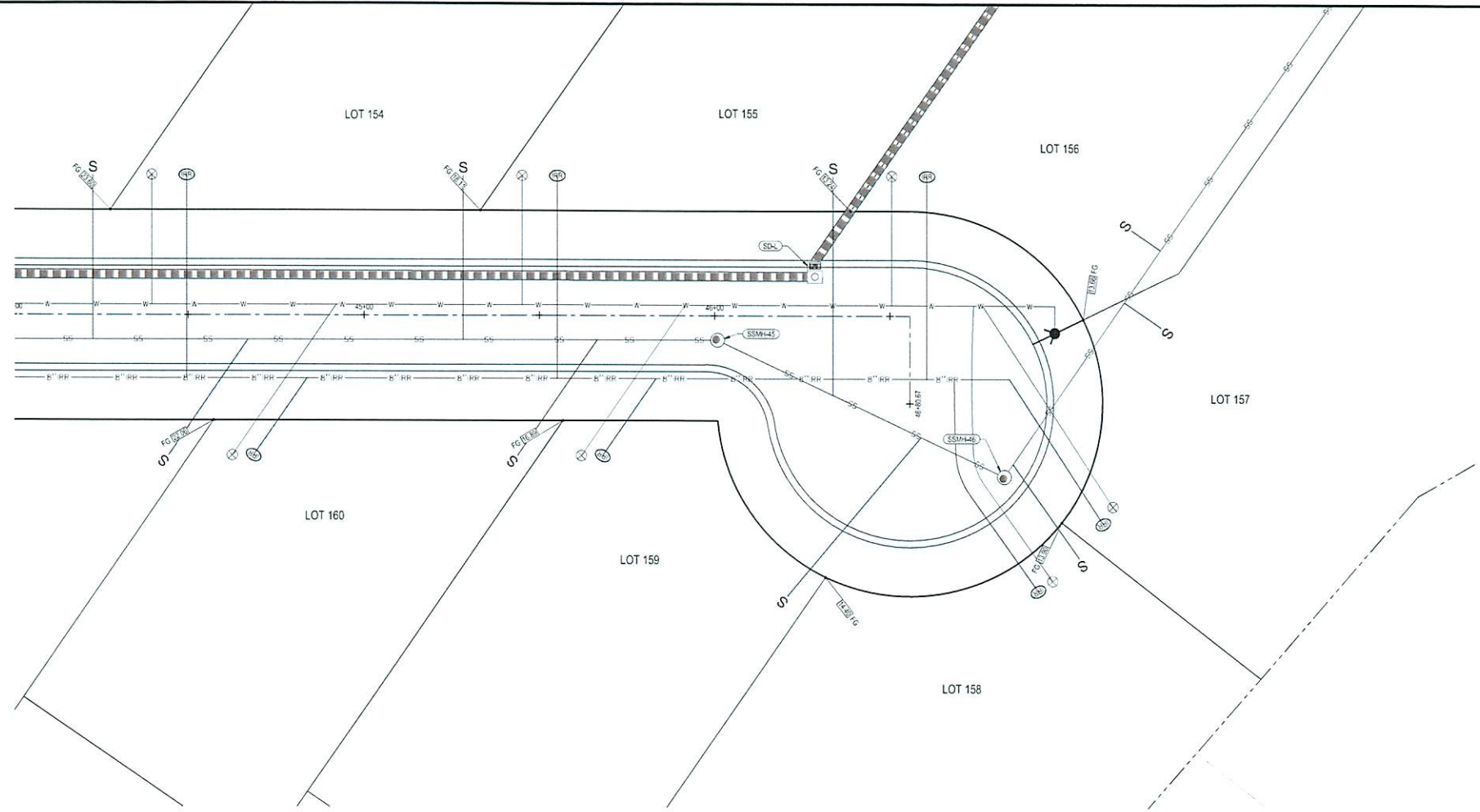


WATTS ENTERPRISES
 TRAPPERS RIDGE AT WOLF CREEK
 P.R.U.D. PHASE 8
 EDEN, UTAH 84310

#	Date	Issue / Description	Int.

Project No: WAT02.01
 Drawn By: JST
 Checked By: RMP
 Date: 03/09/2016

SHEET TITLE:
 PLAN & PROFILE
 TELLURIDE RIDGE



PROFILE TELLURIDE RIDGE LANE: STA 44+00 TO STA 48+00

WATTS ENTERPRISES
 TRAPPERS RIDGE AT WOLF CREEK
 P.R.U.D. PHASE 8
 EDEN, UTAH 84310

#	Date	Issue / Description	Init.

Project No:	WAT02.01
Drawn By:	JST
Checked By:	RMP
Date:	03/09/2016

SHEET TITLE:
 PLAN & PROFILE
 TELLURIDE RIDGE LANE

PP1.4
 Sheet X of X



0 10 20 30
SCALE: 1"=50'

Galloway

Planning, Architecture, Engineering
 Trolley Corners Building
 515 South 700 East, Suite 3F
 Salt Lake City, UT 84102
 303.770.8884
 www.gallowayUS.com



Watts

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WATTS ENTERPRISES
 TRAPPERS RIDGE AT WOLF CREEK
 P.R.U.D. PHASE 8

EDEN, UTAH 84310

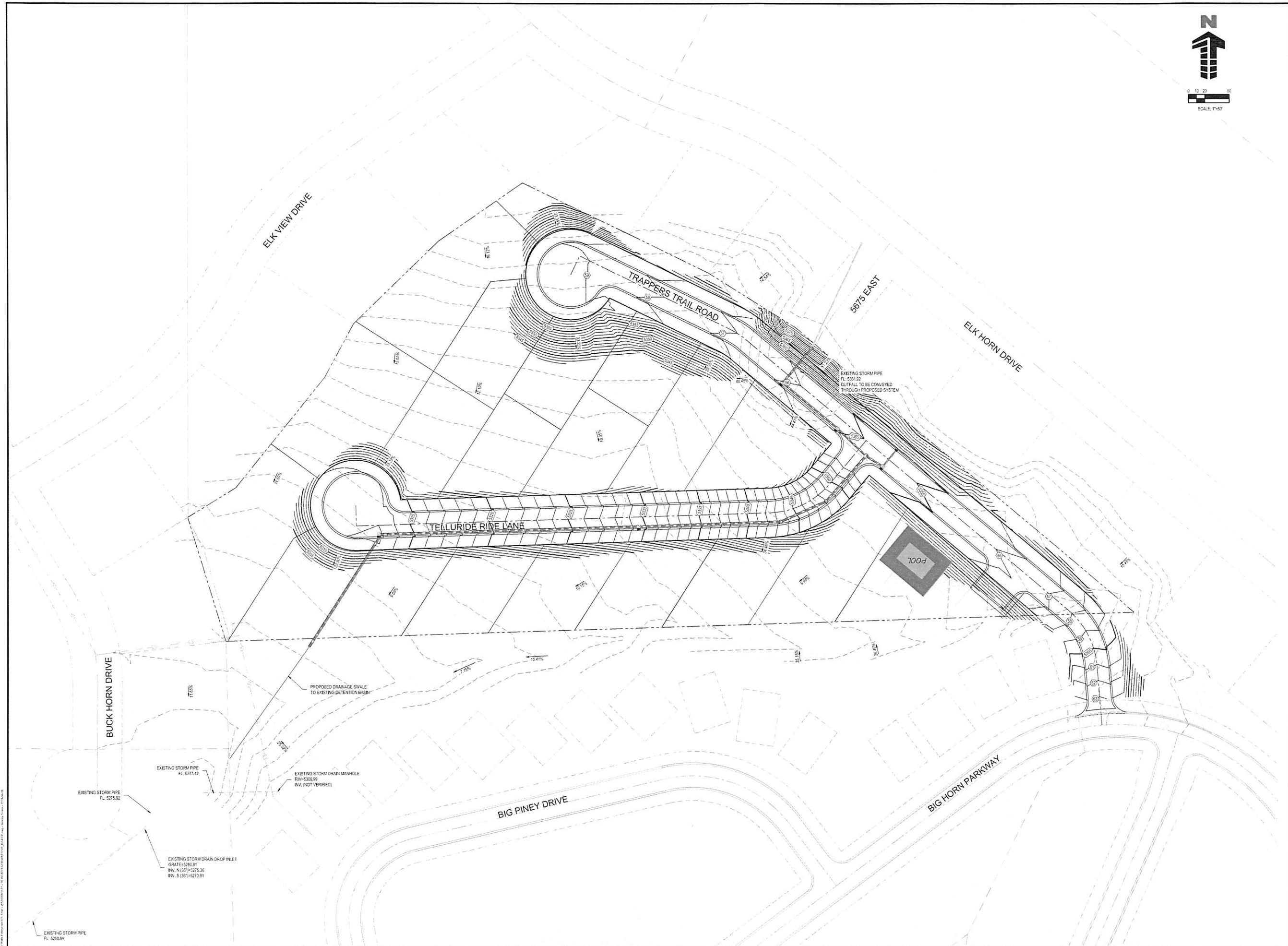
#	Date	Issue / Description	Int.

Project No: #4488
 Drawn By: JST
 Checked By: RMP
 Date: 03/09/2016

SHEET TITLE:
 EROSION CONTROL PLAN

EC.1

Sheet X of X

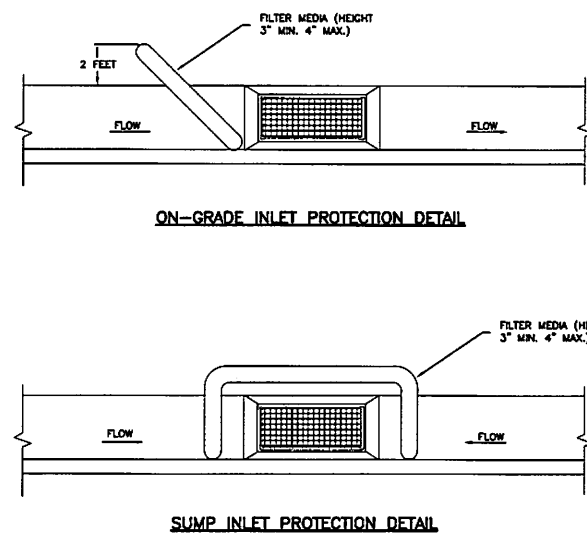


Inlet protection – gravel sock

- 1. GENERAL
A. Description. Placement of gravel sock on grade.
1) Upstream of, or in front of storm drain inlets to filter or pond water runoff.
2) At inlets in paved or unpaved areas where up gradient area is to be disturbed by construction activities.
2. PRODUCTS (Not used)
3. EXECUTION
A. On-grade inlet protection:
1) Provide on-grade inlet protection when completely blocking a storm drain inlet box would result in forcing water further downstream would cause flooding or other undesirable results.
2) Prepare filter media (gravel sock, straw waddle, or other approved media) in accordance with manufacturer’s recommendations.
3) Install filter media just upstream of the inlet box.
4) Filter media shall butt tightly against the face of the curb and angle at approximately a 45-degree angle away from the curb to trap runoff between the media and the curb.
5) Excessive flows will flow either over or around the filter media and into the inlet box.
6) Expect ponding behind the filter media.
B. Drop inlet protection:
1) Use drop inlet protection at low points in the curb and when diverting flows further downstream will not cause undesirable results.
2) Prepare filter media (gravel sock, straw waddle, or other approved media) in accordance with manufacturer’s recommendations.
3) Install filter media around the entire perimeter of the inlet grate.
4) Filter media shall butt tightly against the face of the curb on both sides of the inlet grate.
5) Excessive flows will either flow around the media or over the top and into the inlet box.
6) Expect ponding around the inlet box.
C. Maintenance
1) Inspect inlet protection after every large storm event and at a minimum of once monthly.
2) Remove sediment accumulated when it reaches 2-inches in depth.
3) Replace filter medium when damage has occurred or when medium is no longer functioning as intended.

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NARRATIVE: THIS PLAN MAY BE USED FOR THE CONSTRUCTION OF A STORM WATER BEST MANAGEMENT PRACTICE (BMP). IT IS NOT INCLUSIVE OF ALL PRACTICES AVAILABLE AND IS ONLY SPECIFIC TO THE CONSTRUCTION OF THIS TYPE. MAINTENANCE OF THIS TYPE OF INSTALLATION IS IMPORTANT AND SHOULD BE CONTINUOUSLY MONITORED BY THE CONTRACTOR AND ENGINEER. DETAILS SHOWN HERE HIGHLIGHT IMPORTANT PARTS OF CONSTRUCTION, AND SHOULD BE MODIFIED AS NEEDED.



Inlet protection - gravel sock

September 2006

11

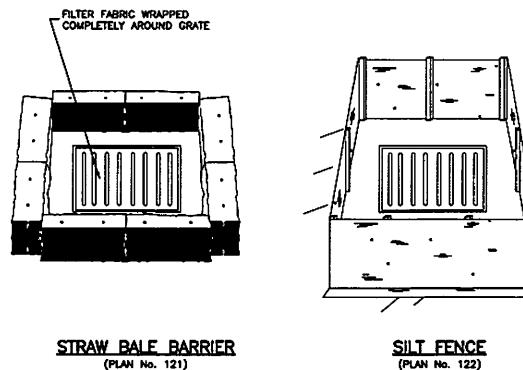
Plan 124 Sheet 1 of 3

Inlet protection – fence or straw bale

- 1. GENERAL
A. Description. A temporary sediment barrier around storm drain inlet.
B. Application. At inlets in paved or unpaved areas where up gradient area is to be disturbed by construction activities.
2. PRODUCT (Not used)
3. EXECUTION
A. Installation and application criteria.
1) Provide up gradient sediment controls, such as silt fence during construction of inlet.
2) When construction of inlet is complete erect straw bale barrier, silt fence or other approved sediment barrier surrounding perimeter of inlet.
3) Install filter fabric completely around grate.
B. Maintenance.
1) Inspect inlet protection after every large storm event and at a minimum of once monthly.
2) Remove sediment accumulated when it reaches 4-inches in depth.
3) Repair or re-align barrier or fence as needed.
4) Look for bypassing or undercutting and re-compact soil around barrier or fence as required.

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Inlet protection - fence or straw bale

February 2006

15

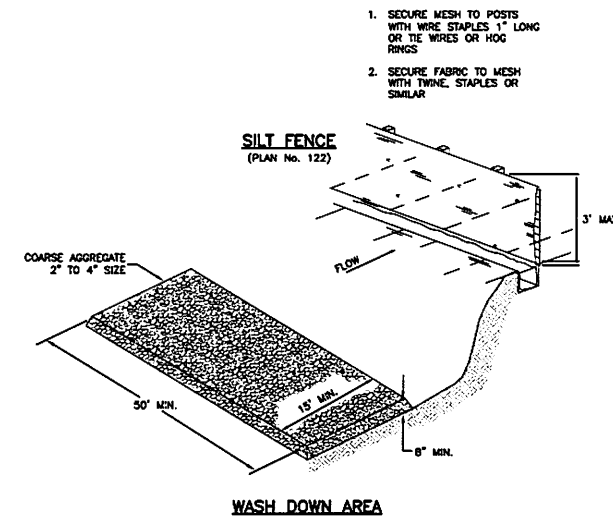
Plan 124 Sheet 3 of 3

Equipment and vehicle wash down area

- 1. GENERAL
A. Description. A temporary stabilized pad of gravel for general washing of equipment and construction vehicles.
B. Application.
1) At any site where regular washing of vehicles and equipment will occur.
2) May also be used as a filling point for water trucks limiting erosion caused by overflow or spillage of water.
2. PRODUCT (Not used)
3. EXECUTION
A. Clear and grub area and grade to provide maximum slope of 1 percent away from paved roadway.
B. Compact subgrade.
C. Place filter fabric under wash down area if desired (recommended for wash area that remains more than 3 months).
D. Install silt fence down gradient (see Plan 122)
E. Maintenance.
1) Requires periodic top dressing with additional stones.
2) Solely used to control sediment in wash water. Cannot be utilized for washing equipment or vehicles that may cause contamination of runoff (such as fertilizer equipment or concrete equipment).
3) Keep the wash area in a condition which will prevent tracking or flow of mud onto public rights-of-way.
4) Periodically dress the top with 2-inch stone may be required, as conditions demand, and repair any structures used to trap sediments.
5) Inspect daily for loss of gravel or sediment buildup.
6) Inspect adjacent area for sediment deposit and install additional controls as necessary.
7) Expand stabilized area as required to accommodate activities.
8) Maintain silt fence as outlined in Plan 122.

16

NARRATIVE: THIS PLAN MAY BE USED FOR THE CONSTRUCTION OF A STORM WATER BEST MANAGEMENT PRACTICE (BMP). IT IS NOT INCLUSIVE OF ALL PRACTICES AVAILABLE AND IS ONLY SPECIFIC TO THE CONSTRUCTION OF THIS TYPE. MAINTENANCE OF THIS TYPE OF INSTALLATION IS IMPORTANT AND SHOULD BE CONTINUOUSLY MONITORED BY THE CONTRACTOR AND ENGINEER. DETAILS SHOWN HERE HIGHLIGHT IMPORTANT PARTS OF CONSTRUCTION, AND SHOULD BE MODIFIED AS NEEDED.



Equipment and vehicle wash down area

February 2006

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Plan 125



Table with 4 columns: #, Date, Issue / Description, Int.

Table with 2 columns: Project No, Date, Issue / Description, Int.

SHEET TITLE: EROSION CONTROL DETAILS (APWA)



Stabilized roadway entrance

1. **GENERAL**
 - A. Description. A temporary stabilized pad of gravel for controlling equipment and construction vehicle access to the site.
 - B. Application. At any site where vehicles and equipment enter the public right of way.
2. **PRODUCT** (Not used)
3. **EXECUTION**
 - A. Clear and grub area and grade to provide maximum slope of 1 percent away from paved roadway.
 - B. Compact subgrade.
 - C. Place filter fabric under stone if desired (recommended for entrance area that remains more than 3 months).
 - D. Maintenance.
 - 1) Prevent tracking or flow of mud into the public right-of-way.
 - 2) Periodic top dressing with 2-inch stone may be required, as conditions demand, and repair any structures used to trap sediments.
 - 3) Inspect daily for loss of gravel or sediment buildup.
 - 4) Inspect adjacent area for sediment deposit and install additional controls as necessary.
 - 5) Expand stabilized area as required to accommodate activities.

18

NARRATIVE: THIS PLAN MAY BE USED FOR THE CONSTRUCTION OF A STORM WATER BEST MANAGEMENT PRACTICE (BMP). IT IS NOT INCLUSIVE OF ALL PRACTICES AVAILABLE AND IS ONLY SPECIFIC TO THE CONSTRUCTION OF THIS TYPE. MAINTENANCE OF THIS TYPE OF INSTALLATION IS IMPORTANT AND SHOULD BE CONTINUOUSLY MONITORED BY THE CONTRACTOR AND ENGINEER. DETAILS SHOWN HERE HIGHLIGHT IMPORTANT PARTS OF CONSTRUCTION, AND SHOULD BE MODIFIED AS NEEDED.

Stabilized roadway entrance

February 2006 Plan 126

WATTS ENTERPRISES
TRAPPERS RIDGE AT WOLF CREEK
P.R.U.D. PHASE 8
EDEN, UTAH 84310

#	Date	Issue / Description	Init.

Project No: WAT02.01
 Drawn By: JST
 Checked By: RMMP
 Date: 03/08/2016

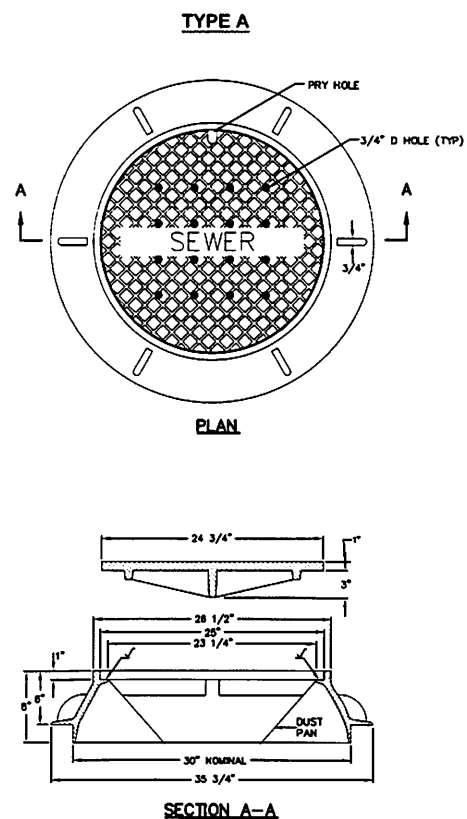
SHEET TITLE:
EROSION CONTROL
DETAILS (APWA)

EC.4
 Sheet X of X

30" Frame and cover

- 1. GENERAL
 - A. The frame and cover fits the manhole in Plan 411.
- 2. PRODUCTS
 - A. Castings: Grey iron class 35 minimum, ASTM A 48, coated with asphalt based paint or better (except on machined surfaces).
 - 1) Cast the heat number on the frame and cover.
 - 2) Give the frame and cover a machine finish so the cover will not rock.
 - 3) ♣ designates machined surface.
 - 4) Cast the words "SEWER" on the cover in upper case flush with the surface finish.
- 3. EXECUTION
 - A. Except in paved streets, provide locking manhole covers in easements, alleys, parking lots, and all other places. Drill and tap two holes to a depth of 1-inch at 90 degrees to pry hole and install 3/4 x 3/4-inch allen socket set screws.

210



30" Frame and cover

Plan 402

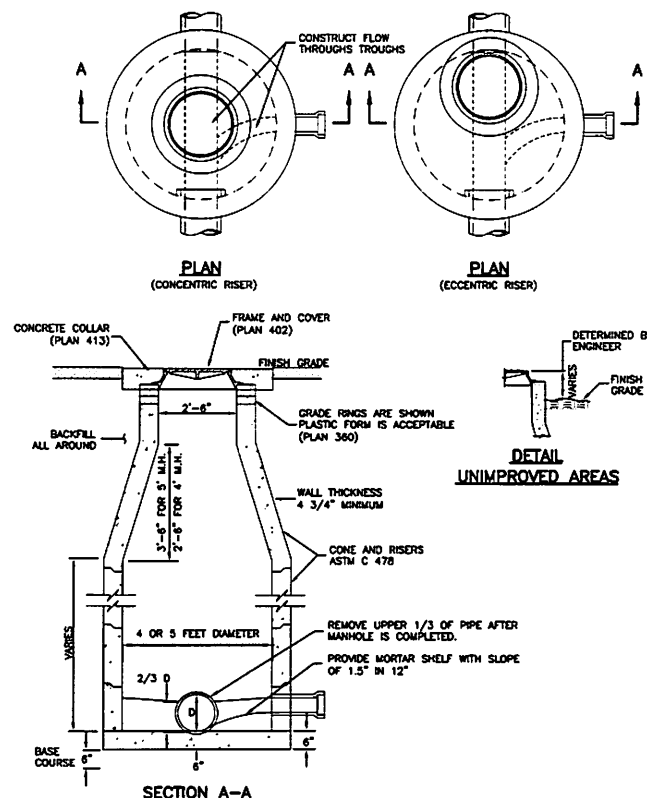
April 1997

211

Sanitary sewer manhole

- 1. GENERAL
 - A. The drawing shows typical pipe connections. Refer to construction drawings for connection locations or refer to field location of existing piping when engineering pipe connection to the manhole.
 - B. Manhole size.
 - 1) Diameter is 4 feet: For sewers under 12" diameter.
 - 2) Diameter is 5 feet: For sewers 12" and larger, or when 3 or more pipes intersect the manhole.
- 2. PRODUCTS
 - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER'S permission.
 - B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
 - C. Concrete: Class 4000, APWA Section 03 30 04.
 - D. Riser and Reducing Riser: ASTM C 478.
 - E. Reinforcement: Deformed, 60 ksi yield grade steel, ASTM A 615.
 - F. Grout: 2 parts sand to 1 part cement mortar, ASTM C 1329.
 - G. Stabilization-Separation Geotextile: Moderate or high at CONTRACTOR'S choice, APWA Section 31 05 19.
- 3. EXECUTION
 - A. Foundation Stabilization: Get ENGINEER'S permission to use a sewer rock or a granular backfill borrow in a geotextile wrap to stabilize an unstable foundation.
 - B. Base Course Placement: APWA Section 32 11 23. Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
 - C. Invert Cover. During construction, place invert covers over the top of pipe in manholes that currently convey sewerage. See Plan 412.
 - D. Pipe Connections: Grout around all pipe openings.
 - E. Pipe Seal: Install rubber-based pipe seals on all plastic pipes when connecting plastic pipes to manholes. Hold water-stop in place with stainless steel bands.
 - F. Joints: Place flexible gasket-type sealant in all riser joints. Finish with grout.
 - G. Adjustment: If the required manhole adjustment is more than 1'-0", remove the cone and grade rings and adjust the manhole elevation with the appropriate manhole section, the cone section, and the grade rings or plastic form to make frame and lid match finish grade.
 - H. Finish: Provide smooth and neat finishes on interior of cones, shafts, and rings. Imperfect moldings or honeycombs will not be accepted.
 - I. Backfill: Provide backfill against the manhole shaft. Pea gravel and recycled RAP aggregate is NOT ALLOWED. Water jetting is NOT allowed. Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.

212



Sanitary sewer manhole

Plan 411

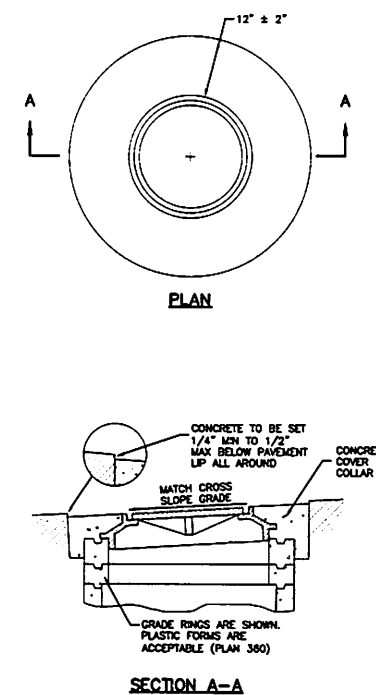
April 2011

213

Cover collar for sanitary sewer manhole

- 1. GENERAL
 - A. In a pavement surface, the concrete will support the frame under traffic loadings.
- 2. PRODUCTS
 - A. Concrete: Class 4000, APWA Section 03 30 04.
 - B. Concrete Curing Agent: Type ID Class A (clear with fugitive dye), membrane forming compound, APWA Section 03 39 00.
- 3. EXECUTION
 - A. Pavement Preparation: Provide a neat vertical and concentric joint between concrete and existing asphalt concrete surfaces. Clean edges of all dirt, oil, and loose debris.
 - B. Concrete Placement: Fill the annular space around the frame and cover casting with concrete. Apply a broom finish. Apply a curing agent.

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Cover collar for sanitary sewer manhole

Plan 413

September 2001

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WATTS ENTERPRISES
TRAPPERS RIDGE AT WOLF CREEK
P.R.U.D. PHASE 8
EDEN, UTAH 84310

#	Date	Issue / Description	Int.

Project No	WAT02.01
Drawn By	JS
Checked By	RWP
Date	03-29-2016

SHEET TITLE:
 SANITARY SEWER
 DETAILS (APWA)

Trench backfill

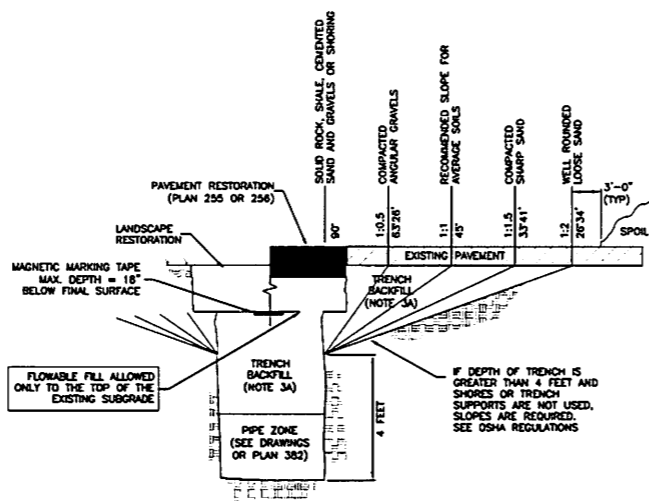
- 1. GENERAL
 - A. The drawing applies to backfilling the trench above the pipe zone.
- 2. PRODUCTS
 - A. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 3-inches.
 - B. Flowable Fill: Target is 60 psi in 28 days with 90 psi maximum in 28 days, APWA Section 31 05 15. It must flow easily requiring no vibration for consolidation.
- 3. EXECUTION
 - A. Trench Backfill:
 - 1) DO NOT USE sewer rock, pea gravel, or recycled RAP aggregate as trench backfill.
 - 2) Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.
 - 3) Water jetting is NOT allowed.
 - 4) Submission of quality control compaction test result data developed for haunching areas may be requested by ENGINEER at any time. Provide results of tests immediately upon request.
 - B. Flowable Fill: When required, place controlled low strength material in the trench, APWA Section 31 05 15. Cure the fill before placing surface restorations.
 - C. Surface Restoration:
 - 1) Landscaped Surface: Rake to match existing grade. Replace vegetation to match pre-construction conditions. Follow APWA Section 32 92 00 (turf or grass) or APWA Section 32 93 13 (ground cover) requirements.
 - 2) Paved Surface: Do not install asphalt or concrete surfacing until trench compaction is acceptable to ENGINEER. Follow APWA Section 33 05 25 (asphalt surfacing), or APWA Section 33 05 25 (concrete surfacing).

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Pipe zone backfill

- 1. GENERAL
 - A. Install the pipe in the center of the trench or no closer than 6-inches from the wall of the pipe to the wall of the trench.
- 2. PRODUCTS
 - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
 - B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
 - C. Concrete: APWA Section 03 30 04.
 - D. Flowable Fill: Target is 60 psi in 28 days with 90 psi maximum in 28 days, APWA Section 31 05 15. It must flow easily requiring no vibration for consolidation.
 - E. Stabilization-Separation Geotextile: Moderate or high at CONTRACTOR's choice, APWA Section 31 05 19.
- 3. EXECUTION
 - A. Excavate the Pipe Zone: Width is measured at the pipe spring line and includes any necessary sheathing. Provide width recommended by pipe manufacturer. Follow manufacturer's recommendations when using trench boxes.
 - B. Foundation Stabilization: Get ENGINEER's permission before installing common fill. Vibrate to stabilize. Installation of stabilization-separation geotextile will be required to separate backfill material and native subgrade materials if common fill cannot provide a working surface or prevent soils migration.
 - C. Base Course:
 - 1) Furnish untreated base course material unless specified otherwise by pipe manufacturer.
 - 2) Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
 - 3) When using concrete, provide at least Class 2,000 per APWA Section 03 30 04.
 - D. Pipe Zone: DO NOT USE sewer rock, pea gravel, or recycled RAP aggregate in the pipe zone. Water jetting is NOT allowed.
 - 1) Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26 unless pipe manufacturer requires more stringent installation.
 - 2) Submission of quality control compaction test result data developed for the haunch zone may be requested by ENGINEER at any time. CONTRACTOR is to provide results of tests immediately upon request.
 - E. Flowable Fill (when required and if allowed by pipe manufacturer):
 - 1) Place the controlled low strength material, APWA Section 31 05 15.
 - 2) Prevent pipe flotation by installing in lifts and providing pipe restraints as required by pipe manufacturer.
 - 3) Reset pipe to line and grade if pipe "floats" out of position.

204

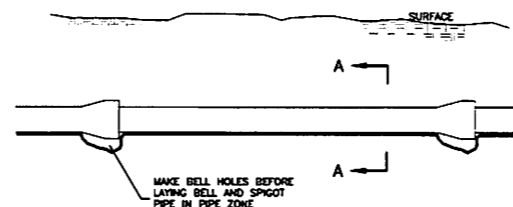


Trench backfill

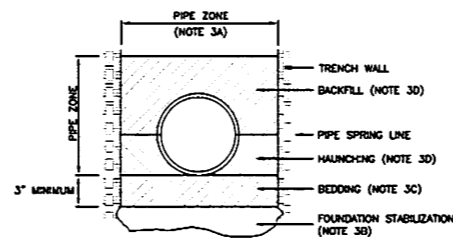
Plan 381

January 2011

203



ELEVATION VIEW



SECTION A-A

INSTALLATION

CONCRETE PIPE: FOLLOW ASTM C 1479
 *STANDARD PRACTICE FOR INSTALLATION OF PRECAST CONCRETE SEWER, STORM DRAIN, AND COLLECTOR PIPE USING EDWARDS INSTALLATIONS.

PVC AND HDPE PIPE: FOLLOW ASTM D 2321
 STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF POLYPROPYLENE PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS

CORRUGATED METAL PIPE: FOLLOW ASTM A 798
 *STANDARD PRACTICE FOR INSTALLING INTERLOCKING CORRUGATED STEEL PIPE FOR SEWERS AND OTHER APPLICATIONS.

VITRIFIED CLAY PIPE: FOLLOW ASTM C 12.
 *STANDARD RECOMMENDED PRACTICE FOR INSTALLING VITRIFIED CLAY PIPE LINES.

Pipe zone backfill

Plan 382

January 2011

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#	Date	Issue / Description	Int.

Project No	WAT02.01
Drawn By	JS
Checked By	RMP
Date	03/29/2016

SHEET TITLE:
 SANITARY SEWER
 DETAILS (APWA)

WOLF CREEK WATER AND SEWER IMPROVEMENT DISTRICT SPECIFICATIONS

- ALL WETTED MATERIALS SHALL BE CERTIFIED TO MEET NSF-61 AND NSF-372.
- MATERIAL OF PIPE (DUCTILE IRON CLASS 51)
- DEPTH OF COVER (5 FEET)
- TYPE OF SERVICE SADDLE (1" DIRECT TAP)
- SIZE AND TYPE OF SERVICE LATERAL (1" COPPER, 200 PSI OR CTS HDPE)
- SERVICE FITTINGS (1" MUELLER COMPRESSION FITTINGS)
- CORP. STOPS (1" MUELLER)
- SETTERS (1" MUELLER WITH DOUBLE CHECK AND LOCKING DEVICE)
- METER BOX (24" DIA. X 36" PLASTIC OR CONCRETE)
- METER BOX LID (24" WITH 2" HOLE IN THE MIDDLE)
- DEPTH OF SERVICE LINE AND METER (5' METER 14"-24" BELOW LID OF BOX)
- TYPE OF METER (NEPTUNE RADIO READ)
- THRUST RESTRAINT (BOTH MEGA-LUG AND CONCRETE)
- FIRE HYDRANTS (MUELLER 5" BURY)
- MAIN LINE LOCATION IN NEW SUBDIVISIONS (IN ROADS SHOULDERS OK IF EXISTING ROAD WITHOUT C+G)
- UNDER NO CIRCUMSTANCE SHALL THE PIPE OR ACCESSORIES BE DROPPED INTO THE TRENCH
- OPEN ENDS OF ALL PIPELINES UNDER CONSTRUCTION SHALL BE COVERED AND EFFECTIVELY SEALED AT THE END OF THE DAY'S WORK



WOLF CREEK WATER AND SEWER
IMPROVEMENT DISTRICT
STANDARD WATER DETAILS

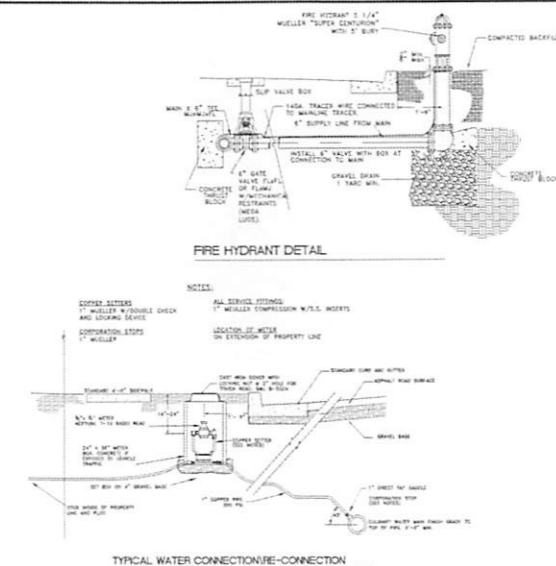
1
6

- METERS LOCATED IN R.O.W. ALONG FRONTAGE
- TRACER WIRE REQUIRED (MIN 1/4 GA. BRING UP FH. BARREL AND WRAP AT LEAST TWICE ABOVE GROUND)
- WARNING TAPE (2" WIDE METALLIC, "BURIED WATER LINE BELOW". LOCATE 18"-24" BELOW FINISHED GRADE)
- BLOW OFFS (2" FLUSH VALVE-TYPE WITH DRAIN, MAINGUARD MODEL 478 OR EQUAL)
- PRV STATIONS (USE CLA-VAL VALVES WITH BYPASS AND PRESSURE RELIEF)
- AIR/VAC VALVES (LOCATED AT PEAKS, VENT OUTSIDE TRAVELED WAY, SEE DETAIL)
- MAIN LINE VALVES (MUELLER VALVES WITH MEGA LUG ON ALL BRANCHES AND RUNS OF TEES AND CROSSES)
PRESSURE TEST THE LINE TO 200 LBS FOR TWO HRS.
ADD CHLORINE GRANULES IN LINE AS IT IS LAID.
TAKE A CHLORINE TEST AT 50 PPM AND THEN 24 HRS LATER TAKE ANOTHER TEST TO ENSURE THAT A RESIDUAL OF 25 PPM REMAINS.
FLUSH AND TAKE A SAMPLE TO THE LAB TO VERIFY THAT IT PASSES.
ALL PIPE AND SERVICE CONNECTIONS WILL BE BEDDED WITH IMPORTED MATERIAL, SAND OR LIKE MATERIAL.
CONTRACTOR'S LICENCE AND PROOF OF INSURANCE REQUIRED NO THRID PARTY PERSON.



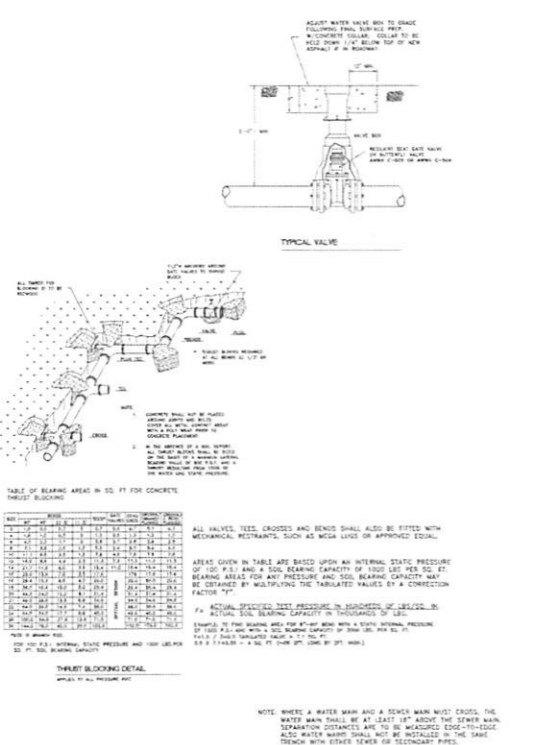
WOLF CREEK WATER AND SEWER
IMPROVEMENT DISTRICT
STANDARD WATER DETAILS

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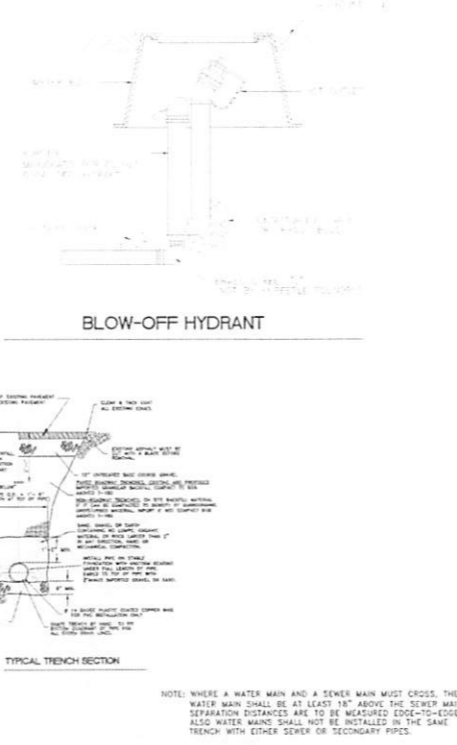
WOLF CREEK WATER AND SEWER
IMPROVEMENT DISTRICT
STANDARD WATER DETAILS

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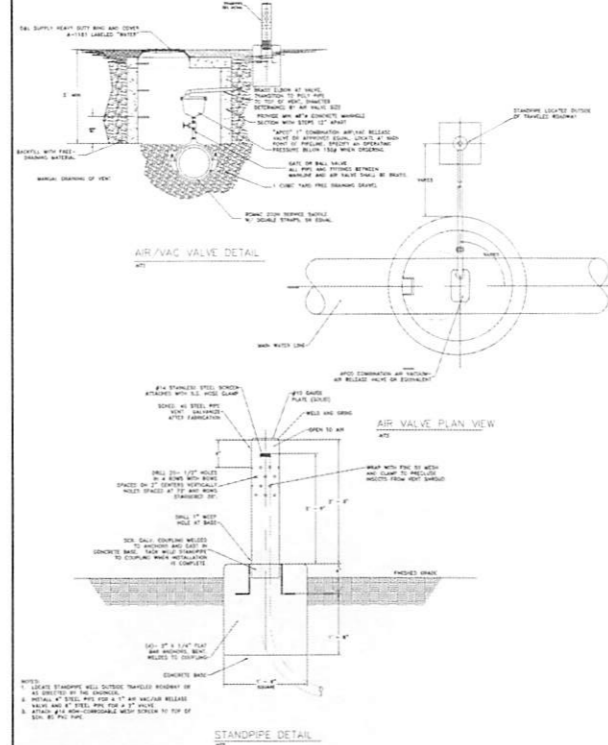
WOLF CREEK WATER AND SEWER
IMPROVEMENT DISTRICT
STANDARD WATER DETAILS

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6



WOLF CREEK WATER AND SEWER
IMPROVEMENT DISTRICT
STANDARD WATER DETAILS

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WOLF CREEK WATER AND SEWER
IMPROVEMENT DISTRICT
STANDARD WATER DETAILS

6
6

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Watts
ENTERPRISES

WATTS ENTERPRISES
TRAPPERS RIDGE AT WOLF CREEK
P.R.U.D. PHASE 8
EDEN, UTAH 84310

#	Date	Issue / Description	Int.

Project No: BWWB
Drawn By: XXX
Checked By: XXX
Date: xxx/xx/xx
SHEET TITLE:
WATER DETAILS (WCWSD)

DT03
Sheet X of X

- Pipe outfall**
- GENERAL**
 - Round concrete pipe application.
 - Additional requirements are specified in APWA Section 33 05 02.
 - PRODUCTS**
 - Use the same quality of precast end section as the pipe.
 - Use the joint material and connection that is the same as the joints in the pipeline.
 - EXECUTION**
 - General dimensions and geometric shapes may vary from manufacturer to manufacturer.
 - Steel reinforcement is not required in the concrete end section shown.
 - Provide joint restraint connectors if required by ENGINEER.

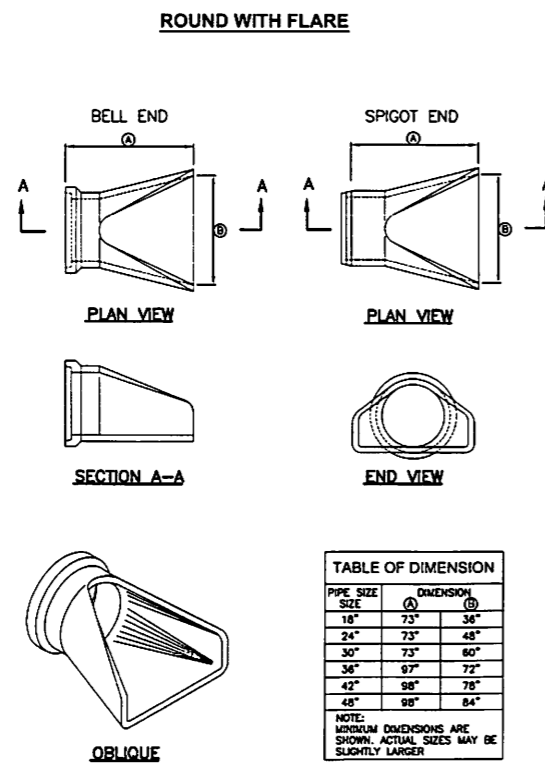
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- Precast manhole**
- GENERAL**
 - The drawing shows typical pipe connections. Refer to construction drawings for connection locations or refer to field location of existing piping when engineering pipe connection to the manhole.
 - Manhole size.
 - Diameter is 4 feet: For pipe under 12" diameter.
 - Diameter is 5 feet: For pipe 12" and larger, or when 3 or more drain pipes intersect the manhole.
 - Wall thickness:
 - Precast reinforced concrete walls 4 3/4" minimum.
 - Cast-in-place concrete to be 8 inches thick minimum.
 - PRODUCTS**
 - Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
 - Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
 - Concrete: Class 4000, APWA Section 03 30 04.
 - Riser and Reducing Riser: Reinforced concrete pipe, Class III, ASTM C 478.
 - Joint Sealant: Rubber based, compressible.
 - Grout: 2 parts sand to 1 part cement mortar.
 - EXECUTION**
 - Foundation Stabilization: Get ENGINEER's permission to use a sewer rock or pea gravel to stabilize an unstable foundation.
 - Base Course Placement: APWA Section 32 11 23. Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
 - Invert cover. During construction, place invert covers over the top of pipe in manholes that currently convey sewerage. See Plan 412.
 - Concrete Deck or Reducing Riser: When depth of manhole from pipe invert to finish grade exceeds 7 feet, use an ASTM C 478 reducing riser cone.
 - Pipe Connections: Grout around all pipe openings.
 - Water Stops: Install rubber-based water-stops on all plastic pipes when connecting plastic pipes to manholes. Hold water-stop in place with stainless steel bands.
 - Joints: Place flexible sealant in all joints. Finish with grout.
 - Finish: Provide smooth and neat finishes on interior of cones, shafts, and rings. Imperfect moldings or honeycombs will not be accepted.
 - Backfill: Provide backfill against the manhole shaft. Pea gravel and recycled RAP aggregate is NOT ALLOWED. Water jetting is NOT allowed. Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.

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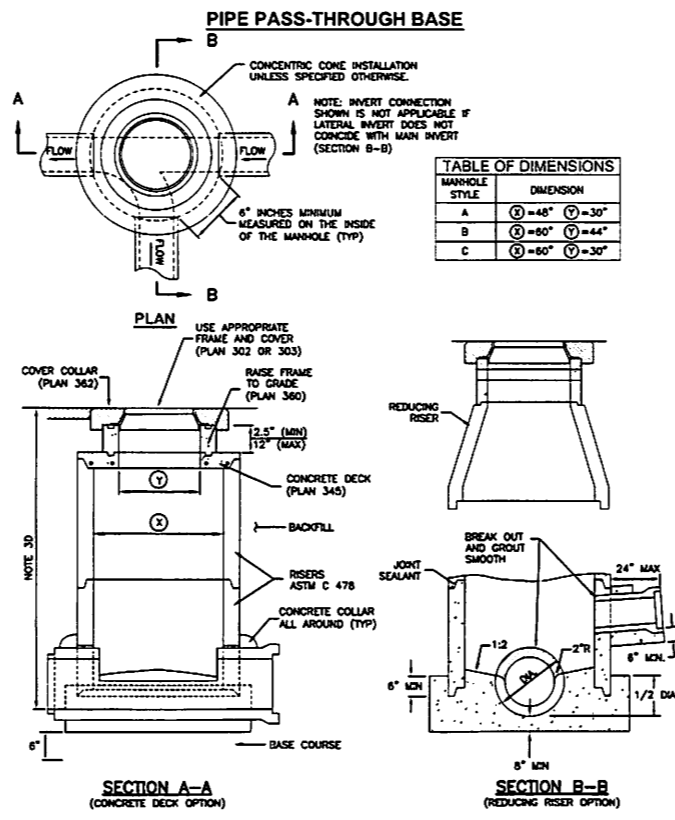
- Raise frame to grade**
- GENERAL**
 - Grade rings are used in non-pressurized applications to adjust frame to grade.
 - PRODUCTS**
 - Concrete: Class 4000, APWA Section 03 30 04.
 - Reinforcement: Deformed, 60 ksi yield grade hoop steel, ASTM A 615.
 - 2 1/2" High Rings: Provide two 1/4" diameter steel hoops tied with No. 14 AWS gage wire, 8" on center.
 - 6" and 8" High Rings: Provide four 1/4" diameter steel hoops, tied with No. 14 AWS gage wire, 8" on center.
 - Gasket: Rubber-based, compressible.
 - EXECUTION**
 - Ring Manufacture:
 - Fabrication, APWA Section 03 30 10.
 - Cure, APWA Section 03 39 00.
 - Field Installation: Seat rings with a compressible gasket.

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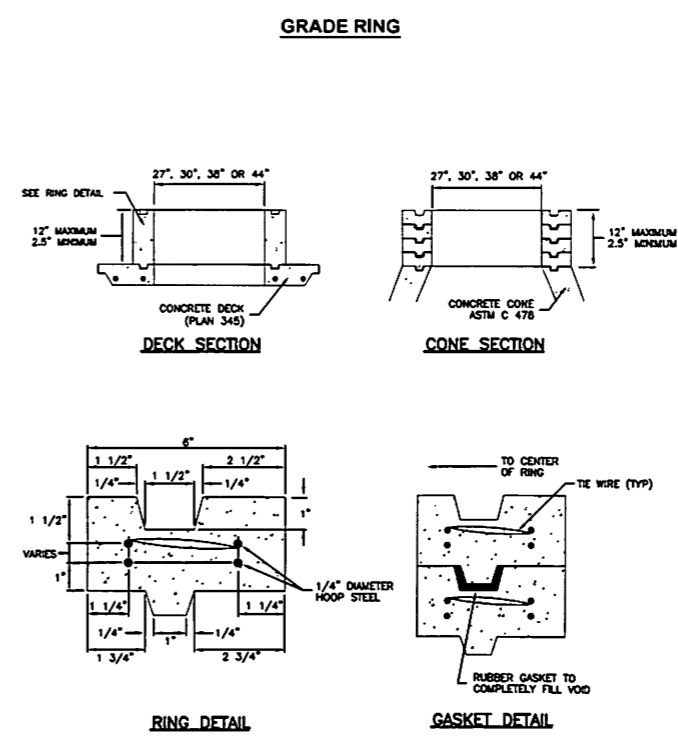
Pipe outfall
November 2010 171

Plan
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Sheet 1 of 3



Precast manhole
November 2010 189

Plan
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Sheet 2 of 2



Raise frame to grade
May 2006 193

Plan
360
Sheet 1 of 2

#	Date	Issue / Description	Int.

Project No: _____
Drawn By: _____
Checked By: _____
Date: _____

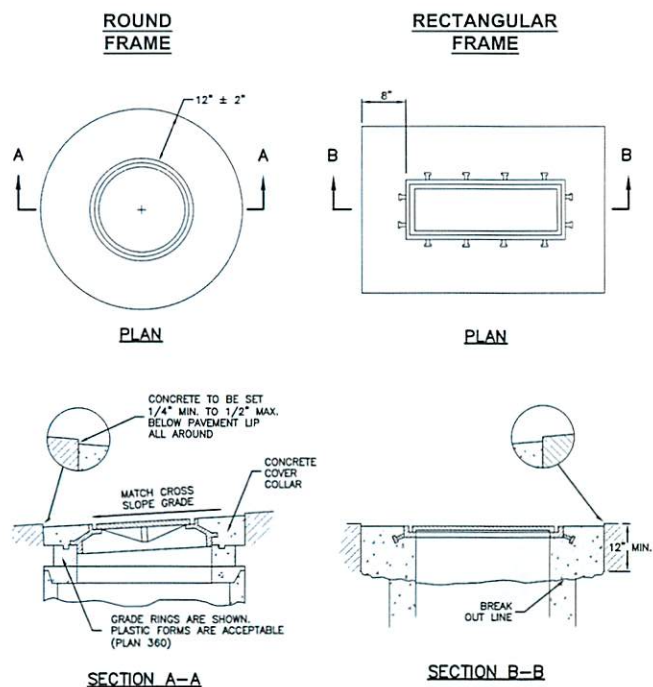
SHEET TITLE:
STORM DRAIN DETAILS (APWA)

DT05
Sheet X of X

Cover collar for storm drains

1. **GENERAL**
 - A. In a pavement surface, the concrete will support the frame under traffic loadings.
2. **PRODUCTS**
 - A. Concrete: Class 4000, APWA Section 03 30 04.
 - B. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.
3. **EXECUTION**
 - A. Pavement Preparation: Provide a neat vertical and concentric joint between concrete and existing asphalt concrete surfaces. Clean edges of all dirt, oil, and loose debris.
 - B. Concrete Placement: APWA Section 03 30 10. Fill the annular space around the frame and cover casting with concrete. Apply a broom finish. Apply a curing agent.

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Cover collar for storm drains

Plan
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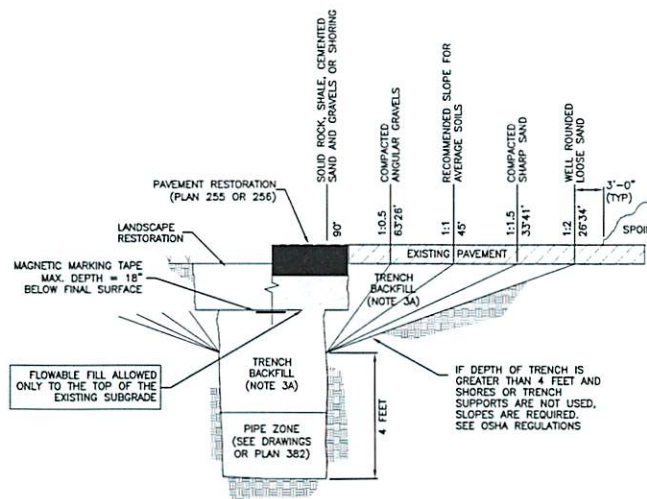
December 2010

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Trench backfill

1. **GENERAL**
 - A. The drawing applies to backfilling the trench above the pipe zone.
2. **PRODUCTS**
 - A. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 3-inches.
 - B. Flowable Fill: Target is 60 psi in 28 days with 90 psi maximum in 28 days, APWA Section 31 05 15. It must flow easily requiring no vibration for consolidation.
3. **EXECUTION**
 - A. Trench Backfill:
 - 1) DO NOT USE sewer rock, pea gravel, or recycled RAP aggregate as trench backfill.
 - 2) Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.
 - 3) Water jetting is NOT allowed.
 - 4) Submission of quality control compaction test result data developed for haunching areas may be requested by ENGINEER at any time. Provide results of tests immediately upon request.
 - B. Flowable Fill: When required, place controlled low strength material in the trench, APWA Section 31 05 15. Cure the fill before placing surface restorations.
 - C. Surface Restoration:
 - 1) Landscaped Surface: Rake to match existing grade. Replace vegetation to match pre-construction conditions. Follow APWA Section 32 92 00 (turf or grass) or APWA Section 32 93 13 (ground cover) requirements.
 - 2) Paved Surface: Do not install asphalt or concrete surfacing until trench compaction is acceptable to ENGINEER. Follow APWA Section 33 05 25 (asphalt surfacing), or APWA Section 33 05 25 (concrete surfacing).

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Trench backfill

Plan
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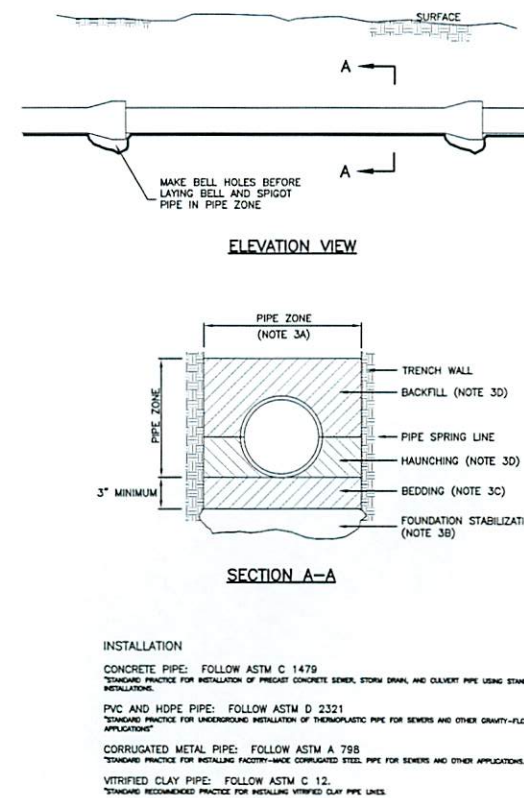
January 2011

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Pipe zone backfill

1. **GENERAL**
 - A. Install the pipe in the center of the trench or no closer than 6-inches from the wall of the pipe to the wall of the trench.
2. **PRODUCTS**
 - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
 - B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
 - C. Concrete: APWA Section 03 30 04.
 - D. Flowable Fill: Target is 60 psi in 28 days with 90 psi maximum in 28 days, APWA Section 31 05 15. It must flow easily requiring no vibration for consolidation.
 - E. Stabilization-Separation Geotextile: Moderate or high at CONTRACTOR's choice, APWA Section 31 05 19.
3. **EXECUTION**
 - A. Excavate the Pipe Zone: Width is measured at the pipe spring line and includes any necessary sheathing. Provide width recommended by pipe manufacturer. Follow manufacturer's recommendations when using trench boxes.
 - B. Foundation Stabilization: Get ENGINEER's permission before installing common fill. Vibrate to stabilize. Installation of stabilization-separation geotextile will be required to separate backfill material and native subgrade materials if common fill cannot provide a working surface or prevent soils migration.
 - C. Base Course:
 - 1) Furnish untreated base course material unless specified otherwise by pipe manufacturer.
 - 2) Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
 - 3) When using concrete, provide at least Class 2,000 per APWA Section 03 30 04.
 - D. Pipe Zone: DO NOT USE sewer rock, pea gravel, or recycled RAP aggregate in the pipe zone. Water jetting is NOT allowed.
 - 1) Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26 unless pipe manufacturer requires more stringent installation.
 - 2) Submission of quality control compaction test result data developed for the haunch zone may be requested by ENGINEER at any time. CONTRACTOR is to provide results of tests immediately upon request.
 - E. Flowable Fill (when required and if allowed by pipe manufacturer):
 - 1) Place the controlled low strength material, APWA Section 31 05 15.
 - 2) Prevent pipe flotation by installing in lifts and providing pipe restraints as required by pipe manufacturer.
 - 3) Reset pipe to line and grade if pipe "floats" out of position.

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Pipe zone backfill

Plan
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January 2011

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#	Date	Issue / Description	Int.

Project No.	8888
Drawn By	XXX
Checked By	XXX
Date	XX/XX/XX

SHEET TITLE:
STORM DRAIN DETAILS (APWA)