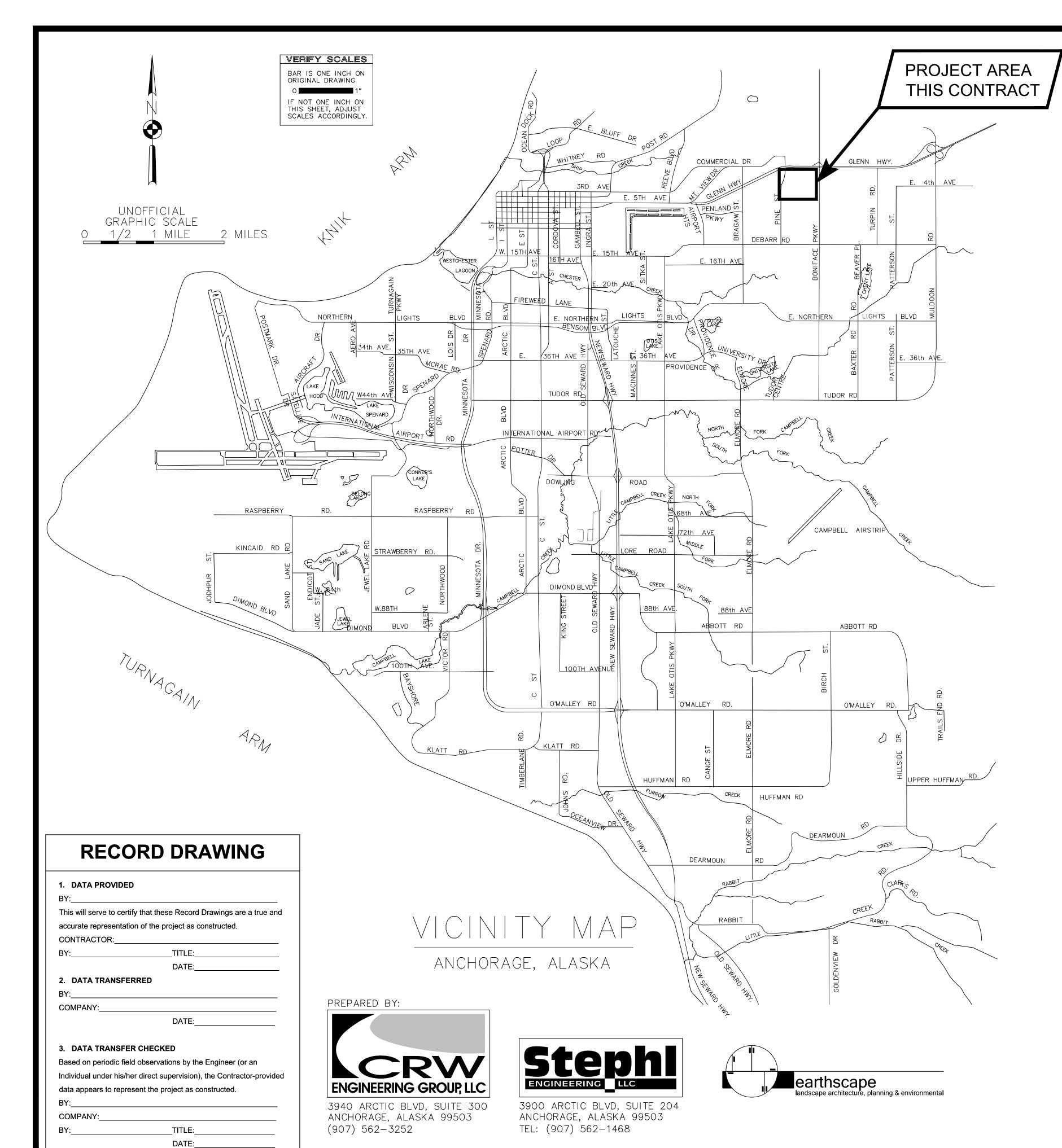


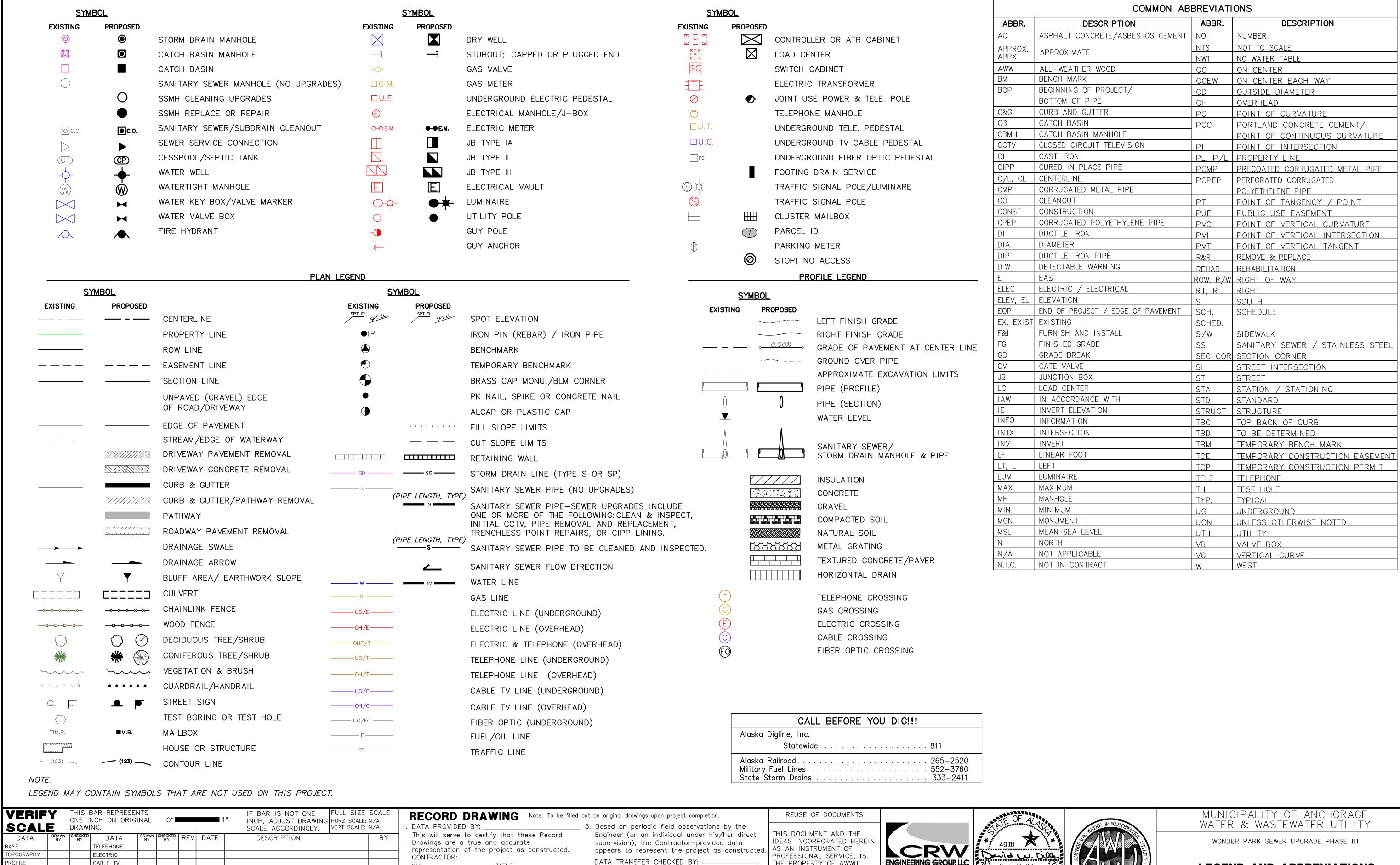
MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY

WONDER PARK SEWER UPGRADE - PHASE III

AWWU PROJECT ID NUMBER: 0000006490 (SWR) APRIL 2014

AGE NO.	SHEET NO.	SHEET TITLE
1	G1	COVER SHEET AND INDEX
2	G2	LEGEND AND ABBREVIATIONS
3	G3	PROJECT LIMITS
4	V1	SURVEY CONTROL - DIG LOCATION NO. 14
5	SS1	NOTES AND TYPICAL TRENCH SECTION
6	SS2	SEWER KEY MAP AND SHEET LAYOUT
7	SS3	TRENCHLESS SEWER REPAIRS - SOUTHEAST WONDER PARK
8	SS4	TRENCHLESS SEWER REPAIRS - EAST WONDER PARK
9	SS5	TRENCHLESS SEWER REPAIRS - NORTHEAST WONDER PARK
10	SS6	TRENCHLESS SEWER REPAIRS - SOUTHWEST WONDER PARK
11	SS7	TRENCHLESS SEWER REPAIRS - WEST WONDER PARK
12	SS8	TRENCHLESS SEWER REPAIRS - NORTHWEST WONDER PARK
13	SS9	SEWER REPAIRS - DIG LOCATION NO.s 1-4
14	SS10	SEWER REPAIRS - DIG LOCATION NO.s 5-9
15	SS11	SEWER REPAIRS - DIG LOCATION NO.s 10-12
16	SS12	SEWER REPAIRS - DIG LOCATION NO. 13
17	SS13	SEWER REPAIRS - DIG LOCATION NO. 14 PLAN-PROFILE
18	SS14	SEWER REPAIRS - DIG LOCATION NO. 14 WORK AREA
19	SS15	SEWER REPAIRS - DIG LOCATION NO. 14 ACCESS CORRIDOR
20	SS16	SEWER REPAIRS - DIG LOCATION NO. 14 CROSS SECTIONS
21-26	L1-L6	LANDSCAPE PLAN
27	L7	LANDSCAPE DETAILS





_____ TITLE: ____

DATA TRANSFERRED BY: _____

COMPANY: _

DATE: _

REVISIONS

SANITARY SEWER

STORM SEWER

WATER

TRAFFIC SIGNAL

MUN. FINAL CHECK

DESIGN

PLAN CHECK

QUANTITIES

PLAN LEGEND

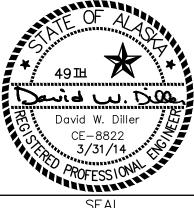
DATA TRANSFER CHECKED BY: ____ COMPANY: ____ _____ TITLE:_

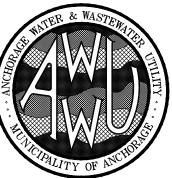
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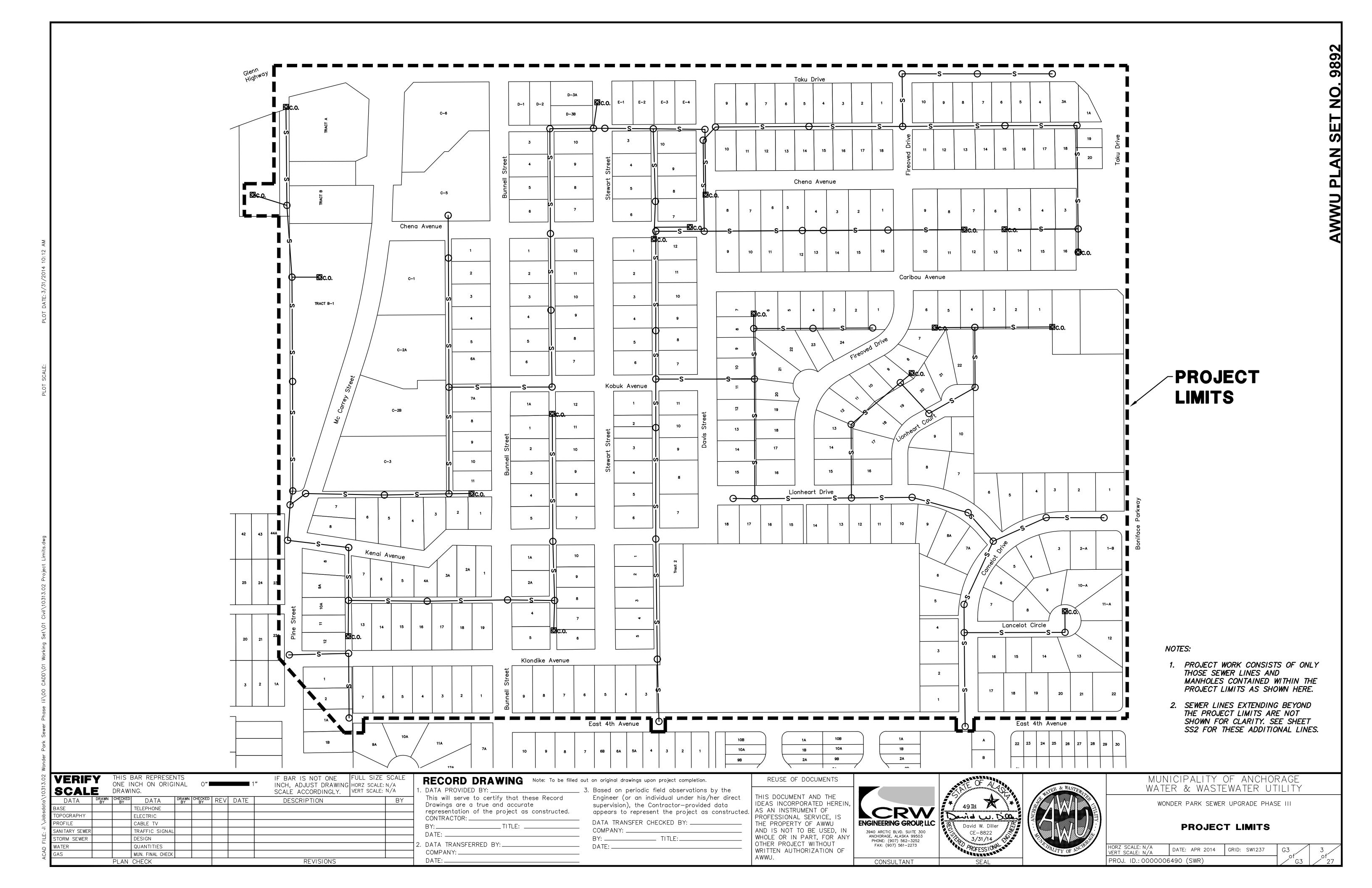
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LEGEND AND ABBREVIATIONS

ORZ SCALE: N/A ERT SCALE: N/A	DATE: APR 2014	GRID:	SW1237	G2	2
ROJ. ID.: 000000	6490 (SWR)			/ ⁰¹ G3	/ ⁰¹ 27



Horizontal Control

Coordinate System:

This project is located entirely within the Anchorage Bowl 2000 adjustment, a local surface grid coordinate system expressed in U.S. Survey feet units developed by the Alaska Department of Transportation.

Basis of Coordinates:

The Basis of Coordinates is NGS Station O'Malley, located near the intersection of the New Seward Highway and O'Malley Road. Said station has Anchorage Bowl 2000 coordinates of 303939.2310 N, 353362.5446 E. U.S. Survey Feet.

Basis of Bearings:

The Basis of Bearings is a local plane bearing between NGS Station O'Malley and NGS Station Loop 2 USE RM 3 1964. NGS Station Loop 2 USE RM 3 1964 bears N 01°43'26.4" E a distance of 49488.4476 feet from NGS Station O'Malley. NGS Station Loop 2 USE RM 3 1964 has Anchorage Bowl 2000 coordinates of 353405.2778 N, 354851.3982 E. U.S. Survey Feet.

Translation Parameters:

To convert the local coordinates to NAD83 (92) State Plane coordinates expressed in U.S. Survey Feet, translate using +2,296,868.6878 N U.S. Survey Feet, +1,312,517.4904 E U.S. Survey Feet, and scale using 0.9998910192.

Vertical Control

Vertical control is based on the MOA Benchmark CB 6B, Elevation = 177.05 feet (GAAB), a brass cap set vertically in the northwest wall of the boiler room of Wonder Park Elementary School, as described on page D-6 of the MOA Benchmark Book. Datum is (U.S.C. & G.S.) M.S.L. 1972 Adjusted. Control Point number 351.

General Survey Notes

1. Phase II field survey was performed by CRW Engineering Group, LLC from June 25, 2012 to November 1, 2012. Phase III field survey was preformed from October 24 to November 2, 2013. Field survey information for both phases of this project is located in the following CRW Engineering Group, LLĆ field books: Field Book No. 80, pagės 43 through 71, Field Book No. 97, pages 1 through 56, and Field Book No. 98, pages 1 through 31.

2. Underground street light lines exist within the project area.

3. A title search was not performed. Easements of record other than those shown on the recorded plats are not shown hereon.

4. All disturbed property corners shall be replaced by the contractor in accordance with Special Provision 65.02, Article 2.1 Project Control.

Horizontal Control										
Point No	Northing	Easting	Description							
508	341630.74	366109.61	1" Brass Plug "CRW CONTROL" set in concrete curbline							
509	341698.43	366075.67	1" Brass Plug "CRW CONTROL" set in concrete curbline							
510	341906.15	366227.85	1" Brass Plug "CRW CONTROL" set in concrete curbline							
511	341992.20	366314.17	1" Brass Plug "CRW CONTROL" set in concrete curbline							
512	342056.08	366371.82	1" Brass Plug "CRW CONTROL" set in concrete curbline							
513	341505.15	366360.49	1" Brass Plug "CRW CONTROL" set in concrete curbline							
514	341712.02	366429.30	1" Brass Plug "CRW CONTROL" set in concrete curbline							
515	341834.63	366609.48	1" Brass Plug "CRW CONTROL" set in concrete curbline							
516	341486.21	366601.25	1" Brass Plug "CRW CONTROL" set in concrete curbline							
517	341372.30	366735.47	1" Brass Plug "CRW CONTROL" set in concrete curbline							
520	341269.55	366606.84	1" Brass Plug "CRW CONTROL" set in concrete curbline							

		Vertic	al Contro	
Point No	Northing	Easting	Elevation	Description
351	341231	365938	177.05	MOA Benchmark CB 6B

LEGEND

Existing Copperweld

Existing Benchmark

Control set by CRW

Control Point Number

Parcel ID Number



THIS BAR REPRESENTS IF BAR IS NOT ONE FULL SIZE SCALE ONE INCH ON ORIGINAL INCH, ADJUST DRAWING HORZ SCALE: 1"=50' SCALE SCALE ACCORDINGLY. | VERT SCALE: N/A DRAWING. DATA DRAWN CHECKED DATA DRAWN CHECKED REV DATE DESCRIPTION TELEPHONE TOPOGRAPHY ELECTRIC PROFILE CABLE TV SANITARY SEWER TRAFFIC SIGNAL STORM SEWER DESIGN QUANTITIES MUN. FINAL CHECK PLAN CHECK REVISIONS

RECORD DRAWING

Note: To be filled out on original drawings upon project completion. . DATA PROVIDED BY: ___

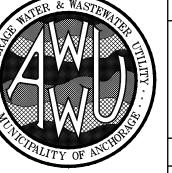
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. DATA TRANSFERRED BY:____ COMPANY: _ DATE: _

WRITTEN AUTHORIZATION OF AWWU.



CONSULTANT



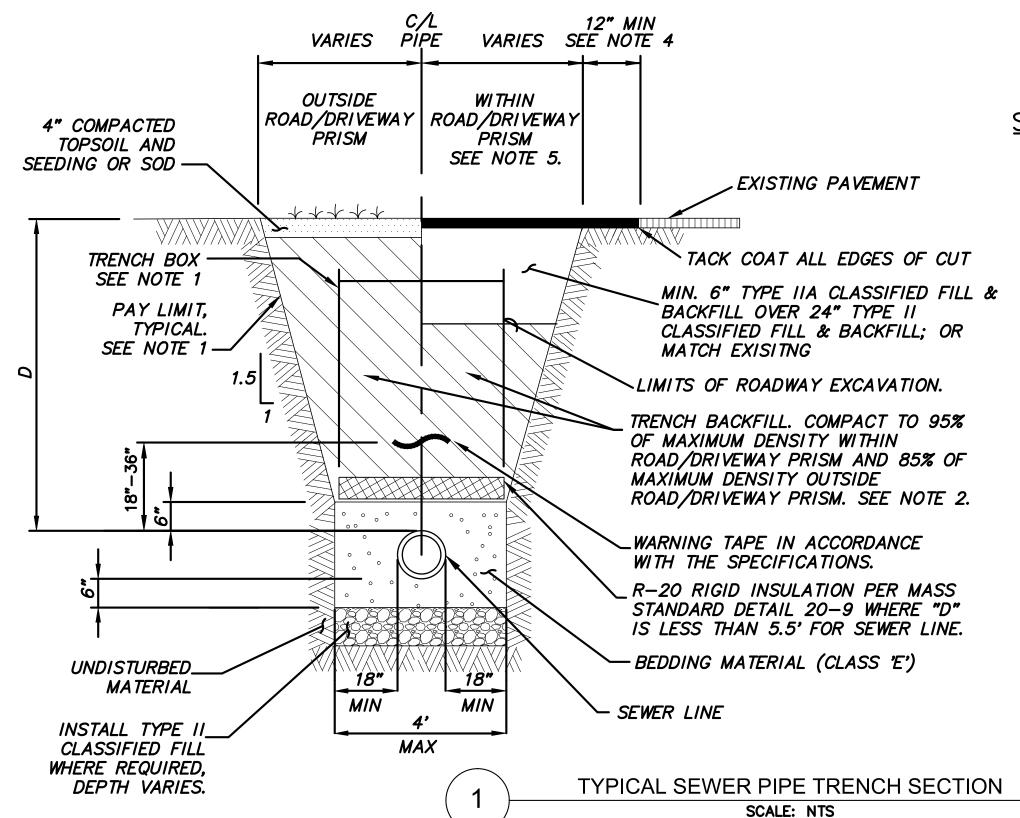
HORZ SCALE: GRAPHIC DATE: APR 2014 GRID: SW1237 VERT SCALE: N/A PROJ. ID.: 0000006490 (SWR)

GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL BE INSTALLED AS SPECIFIED IN THE MOST CURRENT EDITIONS OF THE MUNICIPALITY OF ANCHORAGE (MOA) STANDARD SPECIFICATIONS (HEREINAFTER REFERRED TO AS MASS); THE AWWU DESIGN AND CONSTRUCTION PRACTICES MANUAL (DCPM); AND THE SPECIAL PROVISIONS.
- MAINTAIN A MINIMUM OF TEN (10) FEET HORIZONTAL AND EIGHTEEN (18) INCHES VERTICAL SEPARATION BETWEEN WATER AND SANITARY OR STORM SEWER MAINS AND SERVICES. SANITARY AND STORM SEWER PIPE JOINTS SHALL BE PLACED AT LEAST NINE (9) FEET FROM ANY WATERLINE CROSSING.
- 3. MAINTAIN A MINIMUM OF 36-INCHES OF VERTICAL SEPARATION BETWEEN ANY STORM SEWER (STORM DRAIN OR FOOTING DRAIN) AND WATERLINE (MAINS OR SERVICES) OR SANITARY SEWER (MAINS OR SERVICES). IF 36-INCHES CANNOT BE MAINTAINED, PROVIDE A MINIMUM R-20 INSULATION.
- MOST PROPERTY LINES SHOWN WERE NOT SURVEYED BUT WERE OBTAINED FROM MUNICIPAL GRID MAPS. CONTRACTOR TO VERIFY ROW, EASEMENT, AND TCP BOUNDARIES PRIOR TO BEGINNING WORK.
- 5. HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
- 6. CONTRACTOR SHALL VERIFY AND RECORD THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES ENCOUNTERED IN THE FIELD AND RECORD ANY CHANGES ON THE CONTRACTOR RECORD DRAWINGS.
- 7. TOPOGRAPHIC FEATURES WERE OBTAINED FROM AERIAL IMAGERY BY AEROMAP. THEIR LOCATIONS ARE NOT EXACT, AND/OR ITEMS MAY BE MISSING. CONTRACTOR TO VERIFY LOCATION AND EXISTENCE OF ALL FEATURES IN AND AROUND THE WORK SITES. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- 8. THE CONTRACTOR SHALL RESTORE ALL DISTURBED PROPERTY, INCLUDING DRAINAGE SWALES, DISTURBED BY CONTRACT ACTIVITIES TO PRECONSTRUCTION CONDITION OR AS SHOWN ON THE PLANS.
- IN CASE OF CONFLICT BETWEEN STATIONING OR DIMENSIONED LOCATION OF PIPE OR FITTINGS, USE DIMENSIONED LOCATIONS RELATIVE TO THE CENTERLINE AND PROPERTY LINE. THE DIMENSIONED LOCATIONS SHALL GOVERN.
- 10. THE CONTRACTOR SHALL RECORD SURVEY NOTES IN A FORMAT SIMILAR TO THAT SHOWN IN MASS DIVISION 65 FOR SUBMITTAL WITH RECORD DRAWING PLANS PRIOR TO CONTRACT FINAL PAYMENT.
- 11. ALL WATER/SEWER PIPE INSULATION SHALL BE RIGID BOARD, HIGH DENSITY POLYSTYRENE MIN. 60 P.S.I., FOR UNDERGROUND INSTALLATIONS EQUIVALENT TO R-20.
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROLS AS NECESSARY TO COMPLY WITH FEDERAL, STATE, AND MUNICIPAL LAWS THAT PROHIBIT UNPERMITTED DISCHARGE OF POLLUTANTS, INCLUDING SEDIMENTS, THAT ARE A RESULT OF EROSION AND OTHER CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL CONDUCT ALL WORK SO SEDIMENT IS NOT TRANSPORTED ONTO THE ROADWAY OR ADJACENT PROPERTY. AT A MINIMUM, THE CONTRACTOR SHALL SWEEP UP ANY SEDIMENT TRACKED ONTO PAVED SURFACES IN PUBLIC RIGHT-OF-WAY WITHIN 24 HOURS OF THE TRACKING TO MINIMIZE THE WASH-OFF OF SEDIMENT INTO THE STORM DRAINS OR WATERWAYS.
- 13. WATER RESULTING FROM CONTRACTOR'S DEWATERING EFFORT MAY NOT BE PUMPED OR OTHERWISE DIVERTED INTO EXISTING STORM DRAINS UNLESS PERMITS ARE OBTAINED BY THE CONTRACTOR. INCLUDING BUT NOT LIMITED TO, THOSE REQUIRED BY THE MOA STORM WATER PLAN REVIEW OFFICE. UNDER NO CIRCUMSTANCES WILL THE CONTRACTOR BE ALLOWED TO DIVERT WATER FROM AN EXCAVATION ONTO ROADWAYS. CONTRACTOR SHALL PROVIDE A DISPOSAL SITE FOR EXCESS WATER AND SHALL BE RESPONSIBLE FOR SECURING ALL NECESSARY PERMITS AND APPROVALS. CONTRACTOR SHALL PROVIDE COPIES OF NECESSARY PERMITS AND APPROVALS TO THE MOA RIGHT OF WAY PERMIT OFFICE.
- 14. "BOP" IS DEFINED AS THE OUTSIDE BOTTOM OF PIPE. INVERT "INV" IS DEFINED AS THE INSIDE BOTTOM OF PIPE.
- 15. "REMOVE AND REPLACE" OR "R&R" WHERE SHOWN ON THE DRAWINGS MEANS TO REMOVE MATERIALS AND TO FURNISH AND INSTALL NEW MATERIALS.
- 16. SKEW ALL ROAD ASPHALT JOINTS PER MASS SECTION 40.06, ARTICLE 6.5K.
- 17. AERIAL PHOTOGRAPHY WAS TAKEN BY PICTRONICS IN 2012.
- 18. SEE LANDSCAPING SHEETS FOR VEGETATION REMOVAL & ALSO PROPOSED LANDSCAPING IMPROVEMENTS.
- 19. CERTAIN QUANTITIES IN THE BID TAB WERE INCREASED TO COVER ANTICIPATED WORK THAT MAY BE DONE AS SEWER PIPE DESIGN-BUILD WORK.
- 20. WATER KEY MAP IS INCLUDED IN SECTION XI OF THE CONTRACT SPECIFICATIONS.

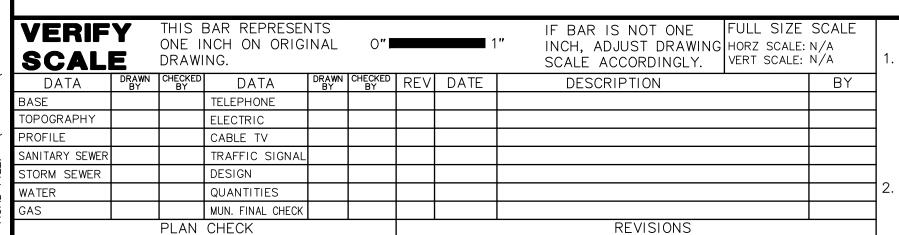
SEWER NOTES

- AWWU AND EXISTING CUSTOMERS SHALL BE NOTIFIED SEVENTY-TWO (72) HOURS IN ADVANCE OF SANITARY SEWER SERVICE INTERRUPTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO BYPASS PUMP THE SANITARY SEWER SERVICE FLOWS IF THE OUTAGE EXCEEDS 6-HOURS. THE CONTRACTOR SHALL HAVE A BYPASS SANITARY SEWAGE FLOW PLAN REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO INTERRUPTION.
- SEWER MAIN STATIONING, IF GIVEN, IS PIPE CENTERLINE STATIONING.
- LOCATION OF SANITARY SEWER MANHOLES WHERE STATIONING INFORMATION IS NOT PROVIDED IS APPROXIMATE AND IS BASED ON CCTV DATA AND RECORD DRAWING INFORMATION. ACTUAL LOCATION MAY VARY.
- 4. LOCATION OF EXISTING SEWER SERVICES IS APPROXIMATE AND IS BASED ON CCTV DATA, CONNECT CARDS, AND RECORD DRAWING INFORMATION. ACTUAL LOCATION MAY VARY.
- ALL MANHOLES SHALL HAVE A MINIMUM OF ONE SIX INCH (6") GRADE RING. MAXIMUM GRADE RING ADJUSTMENT SHALL NOT EXCEED EIGHTEEN INCHES (18").
- SANITARY SEWER SERVICES SHALL BE 4—INCH DUCTILE IRON PIPE CLASS 50 UNLESS NOTED ON PLANS WITH A MINIMUM SLOPE FOR 4—INCH SERVICES TO BE 2%.
- SEWER SERVICES SHALL BE PLACED NO CLOSER THAN: 15 FEET HORIZONTALLY MEASURED TO ANY FIRE HYDRANT OR FIRE HYDRANT LEG; 10 FEET HORIZONTALLY MEASURED TO ANY WATER MAIN, WATER SERVICE, STORM SEWER, FOOTING DRAIN, STREET LIGHT, TRANSFORMER PAD, ELECTRICAL/TELEPHONE/CABLE BOX; AND 5 FEET HORIZONTALLY MEASURED TO ANY SIDE LOT LINE.
- 8. THE CONTRACTOR SHALL RELOCATE ANY SEWER SERVICE CONNECTIONS INSTALLED WITH LESS THAN MINIMUM STANDARD DISTANCES PRIOR TO ACCEPTANCE BY
- PRIOR TO INSTALLATION OF NEW PIPING, CONTRACTOR IS TO VERIFY SEWER SERVICE AND MAIN ELEVATIONS CLEARANCE BENEATH/ABOVE STORM DRAIN AND/OR WATER MAIN PIPING. NOTIFY ENGINEER IMMEDIATELY IF CONFLICTS EXIST.
- 10. PROVIDE SEWER FLOW CONTROL DURING ALL SEWER REMOVAL AND REPLACEMENT WORK. SEE SPECIFICATIONS.
- 11. SEWER SERVICE LATERALS ARE ONLY SHOWN WHERE ANTICIPATED WORK OTHER THAN CLEANING AND PIPE INSPECTION IS TO TAKE PLACE. THIS WORK INCLUDES PIPE REMOVAL, TRENCHLESS SPOT REPAIRS, AND CIPP LINING.
- 12. CONTRACTOR SHALL INSTALL RESTRAINED FITTINGS ON ALL MECHANICAL JOINTS.



SEWER PIPE TRENCH SECTION NOTES

- 1. TRENCH EXCAVATION AND SHORING SHALL COMPLY WITH ALL LOCAL, STATE, AND OSHA REGULATIONS AND REQUIREMENTS. INDICATED TRENCH WALL SLOPES AND DIMENSIONS ARE FOR PAY QUANTITY DETERMINATIONS ONLY. IT IS ASSUMED THAT A TRENCH BOX WILL BE UTILIZED.
- 2. REUSE EXCAVATED TRENCH MATERIAL MEETING TYPE III CLASSIFIED OR BETTER OR AS APPROVED BY THE ENGINEER. NATIVE TRENCH MATERIAL NOT MEETING THESE REQUIREMENTS SHALL BE REMOVED AND REPLACED WITH TYPE II CLASSIFIED MATERIAL.
- 3. REMOVE AND DISPOSE OF ALL ORGANIC MATERIALS IN ACCORDANCE WITH MASS SECTION 20.13.
- 4. IN PREPARATION FOR AND IMMEDIATELY PRIOR TO PAVING. CONTRACTOR SHALL SAW CUT AND REMOVE AN ADDITIONAL 12 INCHES FROM EXISTING PAVEMENT EDGE. THE ENGINEER MAY REQUIRE MORE THAN 12 INCHES ADDITIONAL CUT IF THE EXISTING PAVEMENT HAS BEEN LIFTED IN THE REMOVAL PROCESS, IF THE JOINT DOES NOT OCCUR ON UNDISTURBED MATERIAL, OR IF THE JOINT IS LOCATED WITHIN THE TRAVEL LANE.
- 5. WITHIN PAVED ROADS: MIN. 2" AC PAVEMENT (CLASS E) OVER 2" LEVELING COURSE, OR MATCH EXISTING. WITHIN ALLEYWAYS: MIN. 3" LEVELING COURSE COMPACTED TO 95% MAX. DENSITY.



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_____ TITLE: ____ DATA TRANSFERRED BY: _____ COMPANY: _ DATE: -

3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed. DATA TRANSFER CHECKED BY: ____ COMPANY: _____

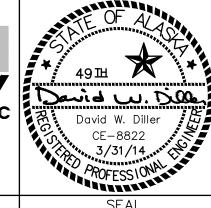
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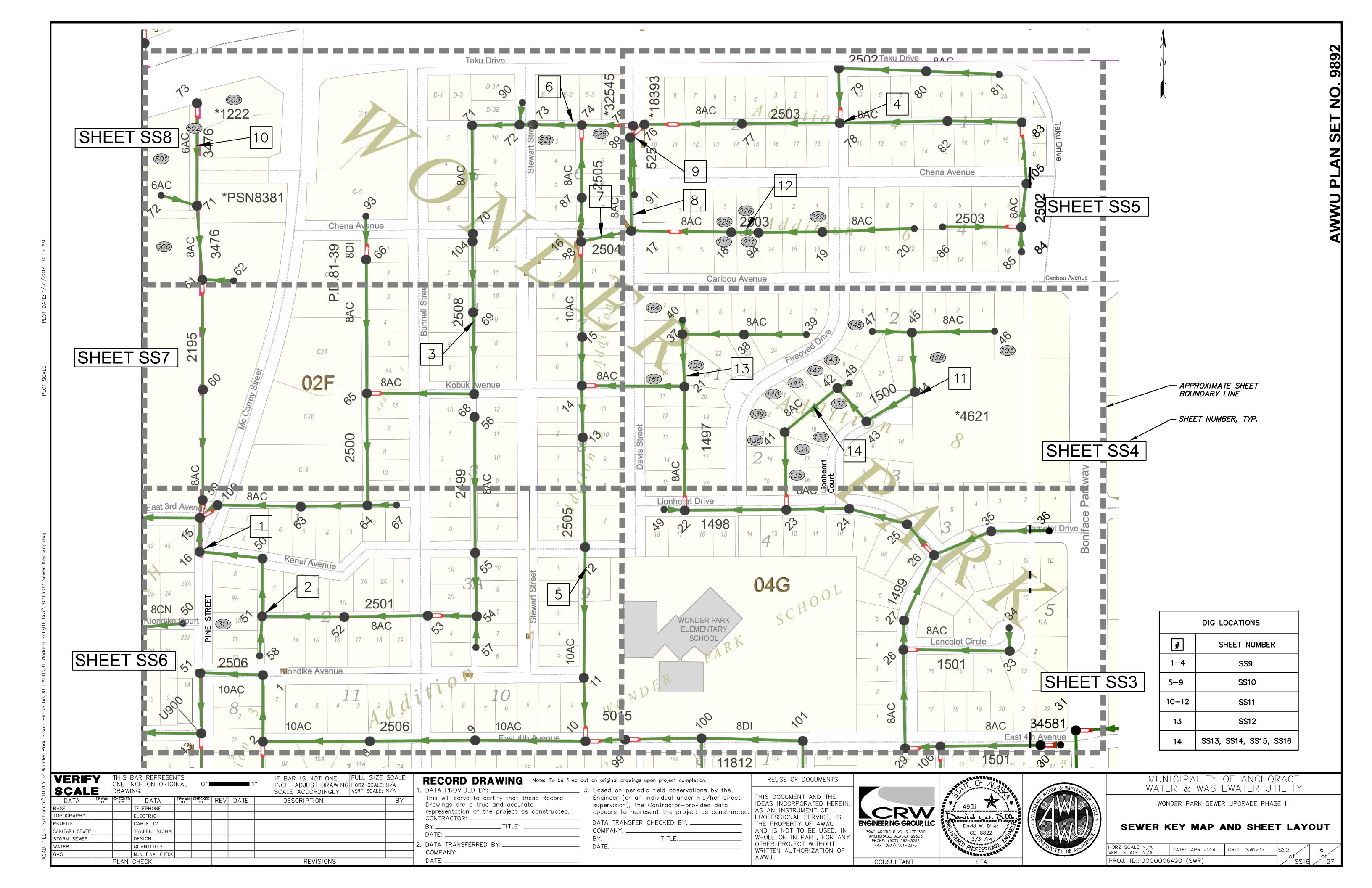


MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY

WONDER PARK SEWER UPGRADE PHASE III

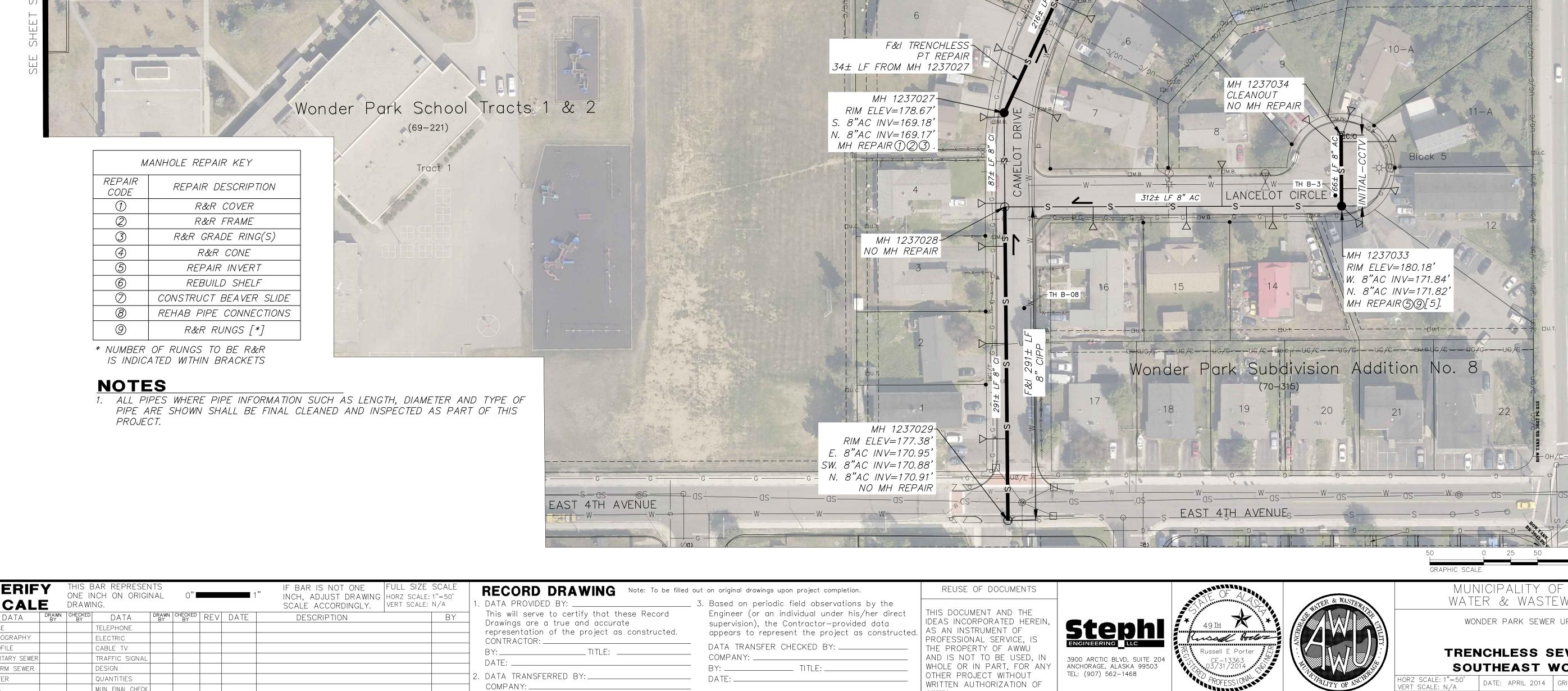
NOTES AND TYPICAL TRENCH SECTION

HORZ SCALE: N/A VERT SCALE: N/A DATE: APR 2014 GRID: SW1237 SS1 PROJ. ID.: 0000006490 (SWR)









SEE SHEET SS4

188± LF 8" AC ☐ □M.B.

MH 1237024

NO MH REPAIR

RIM ELEV=176.23' W. 8"AC INV=166.93"

E. 8"AC INV=167.01"

MH 1237025

RIM ELEV=178.08

NO MH REPAIR

88

SE. 8"AC INV=167.72"

NW. 8"AC INV=167.71"

SEE SHEET SS4 FOR

PIPE INFORMATION

LIONHEART DRIVE

MH 1237023

RIM ELEV=174.55'

N. 8"AC INV=166.23"

W. 8"AC INV=166.13"

E. 8"AC INV=166.13"

MH REPAIR 568.

VERIFY SCALE OPOGRAPHY ROFILE ANITARY SEWER TORM SEWER MUN. FINAL CHECK DATE: __ REVISIONS PLAN CHECK

SEE SHEET SS4 FOR-

MH 1237049

→ NO MH REPAIR

PIPE INFORMATION

MH 1237022

RIM ELEV=171.95'

N. 8"AC INV=164.34"

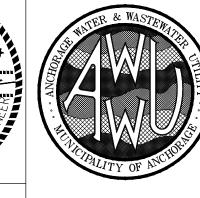
W. 8"AC INV=164.90'

E. 8"AC INV=164.78"

MH REPAIR 568.

AWWU.

CONSULTANT



CO FEET STATES

-MH 1237035

-MH 1237026

RIM ELEV=178.99'

NO MH REPAIR

Block 3

SE. 8"AC INV=168.69"

SW. 8"AC INV=168.21" NW. 8"AC INV=168.09" 4 RIM ELEV=179.39'

E. 8"AC INV=171.04"

†SW. 8"AC INV=170.88"

MH REPAIR (1) (2) (3) (9) [4].

CAMELOT DRIV

MH 1237036

RIM ELEV=185.10' NO MH REPAIR 1-B

CLEANOUT

MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY

WONDER PARK SEWER UPGRADE PHASE III

TRENCHLESS SEWER REPAIRS

HORZ SCALE: 1"=50' DATE: APRIL 2014 GRID: SW1237 SS3 PROJ. ID.: 0000006490 (SWR)

SOUTHEAST WONDER PARK

SEE SHEET SS5

CONTRACTOR SHALL USE EXISTING GATE TO ACCESS MH 1237047. MH IS LOCATED IN THE BACKYARD OF LOT 6. DO NOT DAMAGE EXISTING TREES IN FRONT YARD. SEE ANNOTATED PHOTO LOG FOR FURTHER ACCESS INFORMATION.

MH 1237045 IS LOCATED IN BACKYARD OF LOT 4. REMOVE AND RESET 130 LF OF 4 FT TALL CHAIN-LINK FENCE. SEE LANDSCAPING SHEETS FOR TREE REMOVAL, TREE REPLACEMENT, AND CLEARING AND GRUBBING. CONTRACTOR TO USE ACCESS ROUTE TO GAIN ACCESS TO TCP LOCATED IN TRACT B FOR WORK ON LOT 4. ACCESS ROUTE IS NOT TO BE USED FOR STORAGE OF MATERIALS OR STAGING OF EQUIPMENT. CONTRACTOR SHALL KEEP ONE LANE OF TRAFFIC AT LEAST 12-FEET WIDE OPEN FOR BUSINESS ACCESS TO TRACT B. SEE ANNOTATED PHOTO LOG FOR FURTHER INFORMATION REGARDING ACCESS.

4. ALL PIPES WHERE PIPE INFORMATION SUCH AS LENGTH, DIAMETER AND TYPE OF PIPE ARE SHOWN SHALL BE FINAL CLEANED AND INSPECTED.

VERIF SCAL			BAR REPRESEN NCH ON ORIGI ING.		0"∎		1"	IF BAR IS NOT ONE INCH, ADJUST DRAWING HORZ SCALE SCALE VERT SCALE	: 1"=50'
DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY	REV	DATE	DESCRIPTION	BY
BASE			TELEPHONE						
TOPOGRAPHY			ELECTRIC						
PROFILE			CABLE TV						
SANITARY SEWER			TRAFFIC SIGNAL						
STORM SEWER			DESIGN						
WATER			QUANTITIES						
GAS			MUN. FINAL CHECK						
	•	PLAN	CHECK				'	REVISIONS	•

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DATE: _

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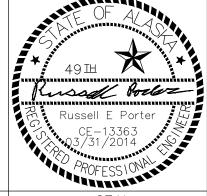
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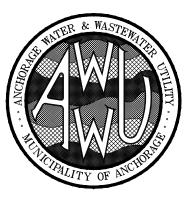
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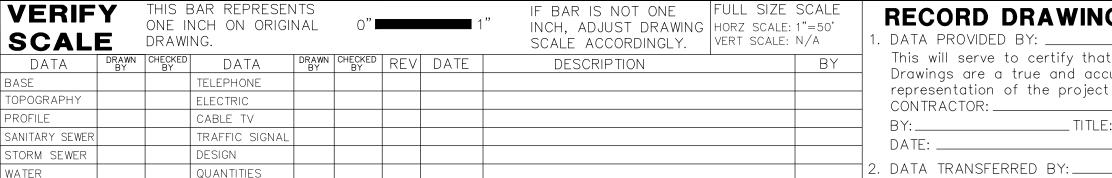
WONDER PARK SEWER UPGRADE PHASE III

TRENCHLESS SEWER REPAIRS EAST WONDER PARK

RZ SCALE: 1"=50' RT SCALE: N/A	DATE: APRIL 2014	GRID:	SW1237	SS4	8
ROJ. ID.: 0000006	490 (SWR)			SS16	27

-SEE SHEET SS8

FOR PIPE INFO



-MH 1237075

DIG LOCATION 9

SEE SHEET SS10 11

RIM TO INV= 5.7 LF

SEE SHEET SS10 DIG LOCATION 9

PIPE R&R

_TH B-12

► MH 1237091

CLEANOUT

-DIG LOCATION 8

SEE SHEET SS10

F&I TRENCHLESS PT

REPAIR 8± LF FROM

F&I 304± LF 8" CIPP

304± LF 8" AC

PIPE R&R

MH 1237017

RIM TO INV= 5.5 LF

SEE SHEET SS85 MH REPAIR (1)(2)(3).

MUN. FINAL CHECK

PLAN CHECK

FOR PIPE INFO

NO MH REPAIR

MH 1237089

NO MH REPAIR

-MH 1237076

NO MH REPAIR

RIM TO INV= 6.5 LF

- RIM TO INV= 8.8 LF -3/HO... 3/HO -3/HO -

TAKU DRIVE

Wonder Park Add. 4

290± LF 8" AC

-*MH 1237077*

MH BURIED

15

-PROPOSED TCP

1. CONTRACTOR SHALL ACCESS LOT 1 BY USE OF EXISTING WOODEN GATE. CONTRACTOR SHALL GIVE 48 HOURS NOTICE TO PROPERTY OWNERS PRIOR TO DOING WORK IN LOT 1. 2. ALL PIPES WHERE PIPE INFORMATION SUCH AS LENGTH. DIAMETER AND TYPE OF PIPE ARE SHOWN SHALL BE FINAL CLEANED AND INSPECTED AS PART OF THIS PROJECT.

COMPANY: ____

DATE: _

RIM TO INV= 9 LF

MH REPAIR (1) 20 [6]

-MH 1237094

NOT FOUND

LOCATE & EXPOSE FOR

F&I 200± LF

8" CIPP

200± LF 8" AC

FURTHER INSPECTION

MH 1237079

RIM TO INV= 9 LF MH REPAIR (1) (2) (3) (4).

. DATA PROVIDED BY: _____ This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed. CONTRACTOR: _____

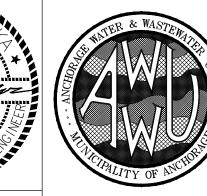
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3900 ARCTIC BLVD, SUITE 204 ANCHORAGE, ALASKA 99503

CONSULTANT





MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY

WONDER PARK SEWER UPGRADE PHASE III

TRENCHLESS SEWER REPAIRS

NOF	RTHI	EAST \	NON	IDER	PARK
RZ SCALE: 1"=50' RT SCALE: N/A	DATE:	APRIL 2014	GRID:	SW1237	SS5
	/-				

PROJ. ID.: 0000006490 (SWR)

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AWWU.

OTHER PROJECT WITHOUT

WRITTEN AUTHORIZATION OF

NOTES

SEE SHEET SS4

DIG LOCATION 12-

SEE SHEET SS11

PIPE R&R

NOT FOUND

INSPECTION 12

FOR FURTHER

LOCATE AND EXPOSE

REVISIONS

MH 1237086-CLEANOUT NOT FOUND LOCATE & EXPOSE FOR FURTHER INSPECTION

Wonder Park Add. 6

CARIBQU AVENUE

317± LF 8" AC

MH 1237078

-F&I TRENCHLESS PT

REPAIR 129± LF FROM

233± LF 8" AC

-DIG LOCATION 4

SEE SHEET SS9

-MH 1237078

CHENA AVENUE

PROPOSED TCP

_ 237± LF 8" AC

SEE NOTE 1

MH 1237019

NO MH REPAIR

RIM TO INV= 11.5 LF

NO MH REPAIR

REPAIR DROP CONNECT

OH/E --- OH/E --- OH,

RIM TO INV= 13.3 LF

F&I TRENCHLESS PT REPAIR 52± LF FROM MH 1237084 -MH 1237020 CLEANOUT INITIAL—CCTV

F&I TRENCHLESS PT REPAIR TH B-13

207± LF FROM MH 1237080

232± LF 8" AC

-MH 1237080

MH BURIED NO MH REPAIR

RIM TO INV= 12.8 LF

MH 1237082

MH BURIED

NO MH REPAIR

RIM TO INV= 10.5 LF

NO MH REPAIR F&I TRENCHLESS PT REPAIR-2 LF± FROM MH 1237084

> 228± LF 8" AC ___ SEE LANDSCAPING SHEETS FOR LANDSCAPING IMPACTS

-MH 1237081

3A

F&I TRENCHLESS PT REPAIR

315± LF FROM MH 1237084

MH 1237083

NOT FOUND

LOCATE & EXPOSE FOR

FURTHER INSPECTION

-F&I TRENCHLESS PT

REPAIR 82± LF FROM

MH 1237083

MH BURIED NO MH REPAIR

REPAIR

CODE

(1)

4

RIM TO INV= 10.3 LF

-4-INCH SERVICE

MANHOLE REPAIR KEY

REPAIR DESCRIPTION

R&R COVER

R&R FRAME

R&R GRADE RING(S)

R&R CONE

REPAIR INVERT

REBUILD SHELF

CONSTRUCT BEAVER SLIDE

REHAB PIPE CONNECTIONS

R&R RUNGS [*]

* NUMBER OF RUNGS TO BE R&R

-MH 1237084

RIM TO INV= 6.7 LF

MH REPAIR (1) (2) (4) (9) [3].

IS INDICATED WITHIN BRACKETS

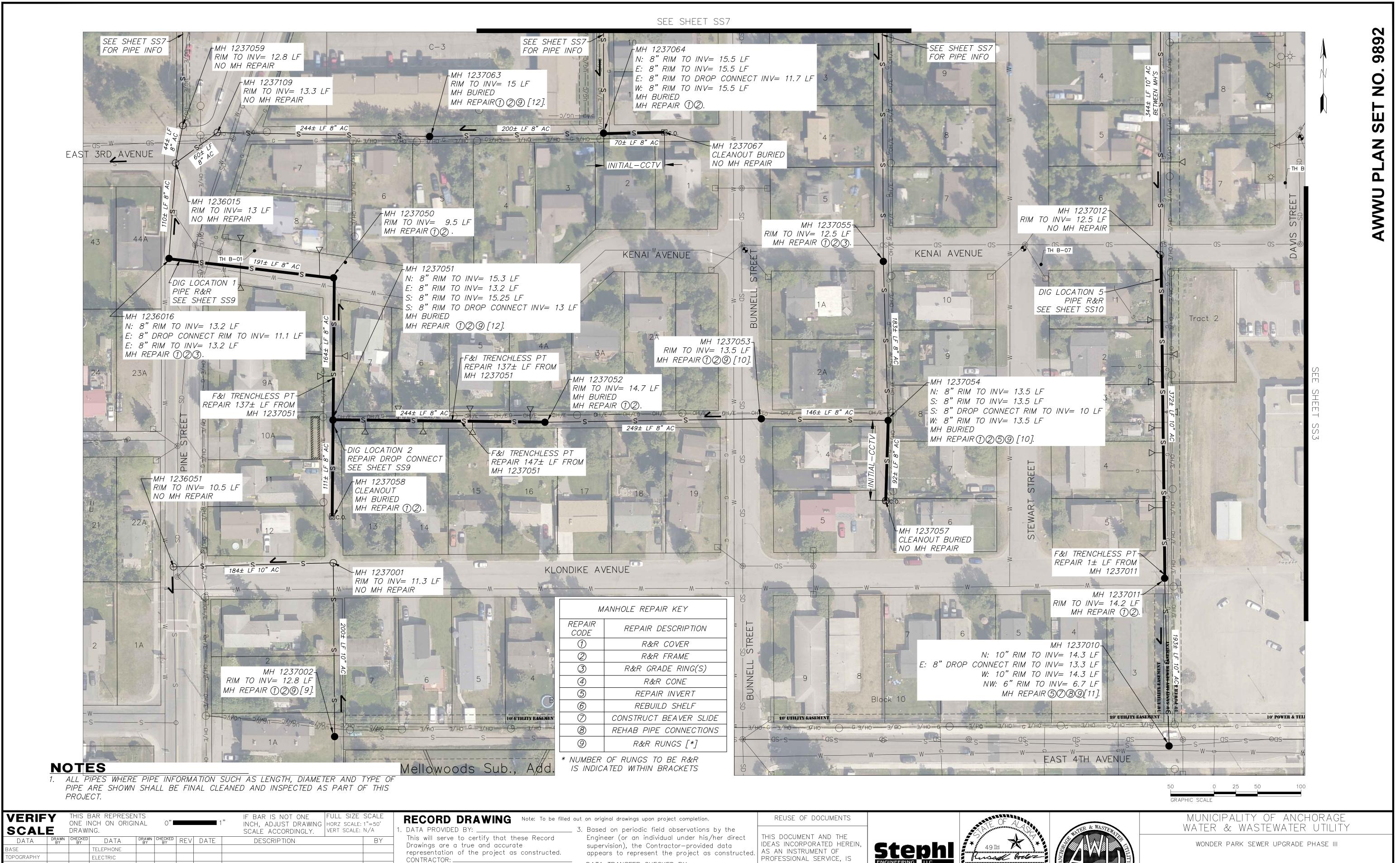
-F&I TRENCHLESS PT REPAIR

4± LF FROM MH 1237084

EXISTING CONE IS 36-INCHES TALL

F&I TRENCHLESS PT REPAIR 60± LF FROM MH 1237084

CLEANOUT NOT FOUND LOCATE & EXPOSE FOR FURTHER INSPECTION



ROFILE CABLE TV ANITARY SEWER TRAFFIC SIGNAL DESIGN TORM SEWER QUANTITIES MUN. FINAL CHECK

REVISIONS

CONTRACTOR: ____

DATA TRANSFERRED BY: _____ COMPANY: ___

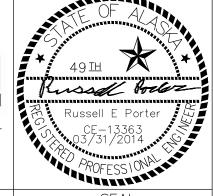
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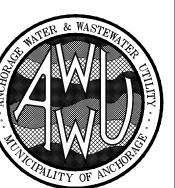
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TEL: (907) 562-1468

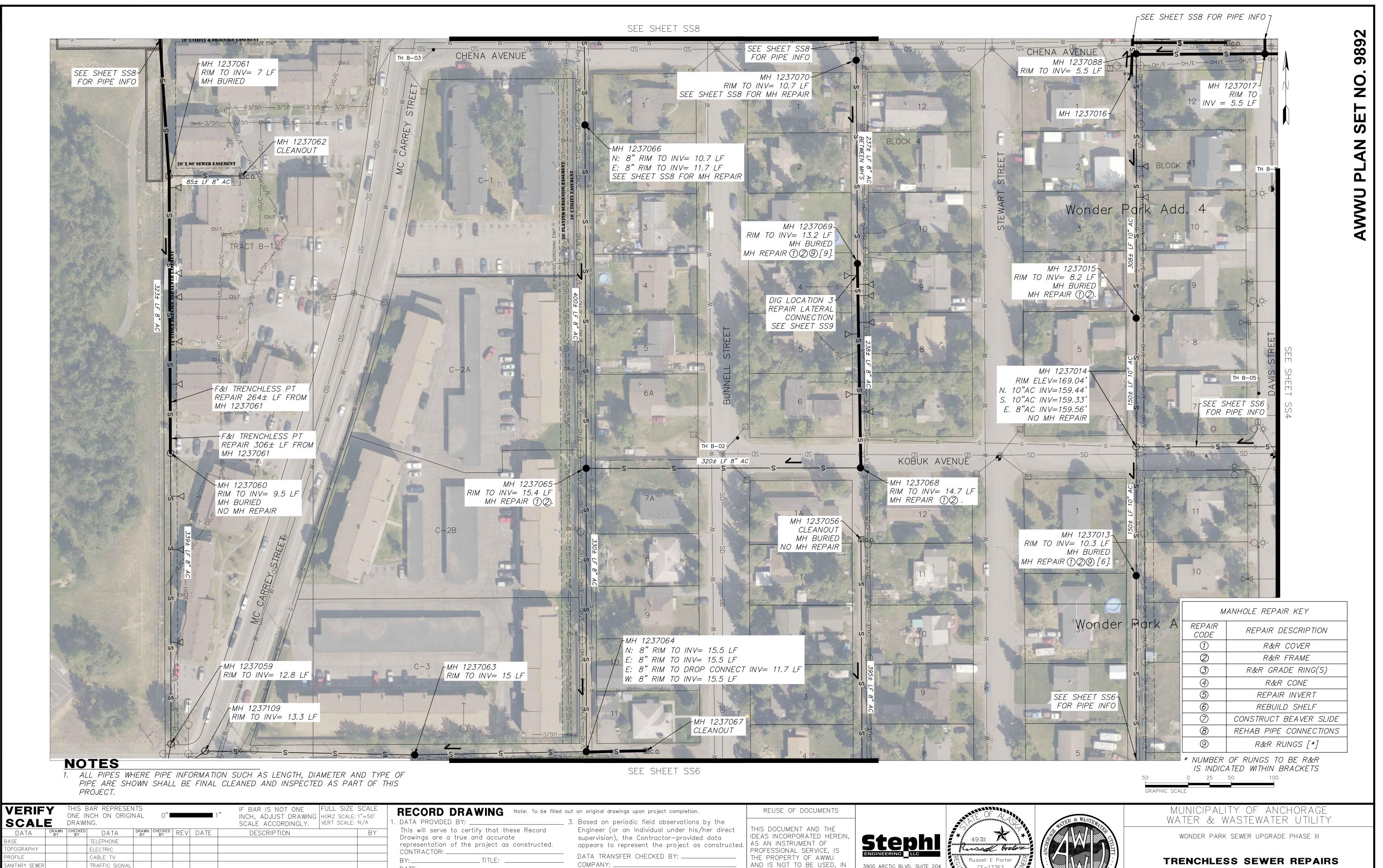
CONSULTANT





TRENCHLESS SEWER REPAIRS SOUTHWEST WONDER DARK

500	ILME21	WUI	NDER	PARK	
HORZ SCALE: 1"=50' VERT SCALE: N/A	DATE: APRIL 2014	GRID:	SW1237	SS6	10
PROJ. ID.: 0000006	490 (SWR)			SS16	<u>/</u> 27



DATA TRANSFERRED BY: _____

COMPANY: __

REVISIONS

3900 ARCTIC BLVD, SUITE 204

WEST WONDER PARK

DATE: APRIL 2014 GRID: SW1237 SS7

HORZ SCALE: 1"=50' VERT SCALE: N/A

PROJ. ID.: 0000006490 (SWR)

ANCHORAGE, ALASKA 99503

CONSULTANT

TEL: (907) 562-1468

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OTHER PROJECT WITHOUT

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ANITARY SEWER TORM SEWER

TRAFFIC SIGNA

QUANTITIES

MUN. FINAL CHECK

DESIGN

SEE SHEET SS7

FOR PIPE INFORMATION

ĹN: 8" RIM TO INV= 10.7 LF

S: 8" RIM TO INV= 11.7 LF

-MH 1237066

MH REPAIR (5)

-SEE SHEET SS7

NOTES 1. ALL PIPES WHERE PIPE INFORMATION SUCH AS LENGTH, DIAMETER AND TYPE OF PIPE ARE SHOWN SHALL BE FINAL CLEANED AND INSPECTED AS PART OF THIS PROJECT.

20' X 90' SEWER EASEMENT

CHAIN LINK FENCE

-MH 1237061

MH BURIED

NO MH REPAIR

RIM TO INV= 7 LF

TO UTINITY & DRAINAGE EASEMENT

10' UTILITY & DRAINAGE ESMT

-MH 1237062

NO MH REPAIR

CLEANOUT

-MH 1236073

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CHENA AVENUE

TH B-03-

DATA TRANSFERRED BY: _____

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TAKU DRIVE

F&I TRENCHLESS PT-

REPAIR 1± LF FROM

MH 1237071

MH 1237071-

MH BURIED

RIM TO INV= 10 LA

MH REPAIR 129[7

MH 1237090~

CLEANOUT NO MH REPAIR

MH REPAIR (1) (2).

RIM TO INV= 10.3 LF

MH 1237072-

MH BURIED

F&I 35± LF

-F&I TRENCHLESS PT REPAIR 89± LF FROM

MH 1237072

8" CIPP



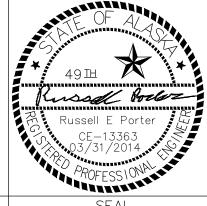
MH 1237070

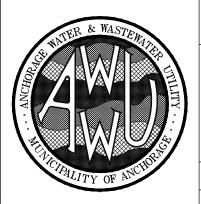
RIM TO INV= 10.7 LF

MH REPAIR 123.

SEE SHEET SS7

FOR PIPE INFORMATION





MH 1237074-

MH BURIED

DIG LOCATION 6

SEE SHEET SS10

150± LF 8" CI

MH 1237074

F&I TRENCHLESS PT

REPAIR 14± LF FROM

BLOCK 6

MH 1237087-

NO MH REPAIR

CHENA AVENUE

CLEANOUT NOT FOUND

LOCATE & EXPOSE FOR

FURTHER INSPECTION

FOR PIPE INFORMATION

CLEANOUT

MH 1237016

SEE SHEET SS7

PIPE R&R

RIM TO INV= 11.7 LF

MH REPAIR (1)(2)(3).

_TH B-04

MH 1237073

RIM TO INVERT= 9.8 LF

MH REPAIR (1)(2)(3)

MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY

MH 1237075-

RIM TO INV= 8.8 LF

MH 1237089

MH 1237091 CLEANOU

MH 1237017

RIM TO INV= 5.5 L

PIPE R&R

4-INCH AC-SEWER IN UNKNOWN LOCATION. CLEANOUT HAS NOT

BEEN FOUND. LOCATE

AND EXPOSE FOR FURTHER

DIG LOCATION 7

SEE SHEET SS10

RIM TO INV= 5.7 LF

-MH 1237088

MH REPAIR(1)(2).

-INITIAL — CCTV

INSPECTION.

RIM TO INV= 5.5 LF

160± LF 8" CI

WONDER PARK SEWER UPGRADE PHASE III

TRENCHLESS SEWER REPAIRS NORTHWEST WONDER PARK

HORZ SCALE: 1"=50' DATE: APRIL 2014 GRID: SW1237 SS8 VERT SCALE: N/A PROJ. ID.: 0000006490 (SWR)

	.	TILLO		ITC				15 0 10 10 10 TOUR DUE 15 11 1 CIZE	COALE	
VERIF SCALI			BAR REPRESEN NCH ON ORIGI NG.		0"■		1"	IF BAR IS NOT ONE FULL SIZE INCH, ADJUST DRAWING HORZ SCALE SCALE ACCORDINGLY.	: 1"=50'	RECORD 1. DATA PROVIDE
DATA	DRAWN BY	CHECKED	DATA	DRAWN BY	CHECKED BY	REV	DATE	DESCRIPTION	BY	This will serve
BASE			TELEPHONE							Drawings are of representation
TOPOGRAPHY			ELECTRIC							CONTRACTOR: _
PROFILE			CABLE TV							BY:
SANITARY SEWER			TRAFFIC SIGNAL							DATE:
STORM SEWER			DESIGN							
WATER			QUANTITIES							2. DATA TRANSFE
GAS			MUN. FINAL CHECK							COMPANY:
`		PLAN	CHECK					REVISIONS		DATE:

MANHOLE REPAIR KEY

CODE 1

2

3

4

(5)

6

 \bigcirc

8

REPAIR DESCRIPTION

R&R COVER

R&R FRAME

R&R GRADE RING(S)

R&R CONE

REPAIR INVERT REBUILD SHELF

CONSTRUCT BEAVER SLIDE

REHAB PIPE CONNECTIONS

R&R RUNGS [*]

* NUMBER OF RUNGS TO BE R&R

PROPOSED TCP.

SEE ANNOTATED

PHOTO LOG FOR

F&I TRENCHLESS PT

REPAIR 40± LF FROM 🖟

ACCESS TO MH IS THRU-

PARK. SEE ANNOTATED

MH 1237061

PHOTO LOG FOR FURTHER INFO.

ACCESS TO MH

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

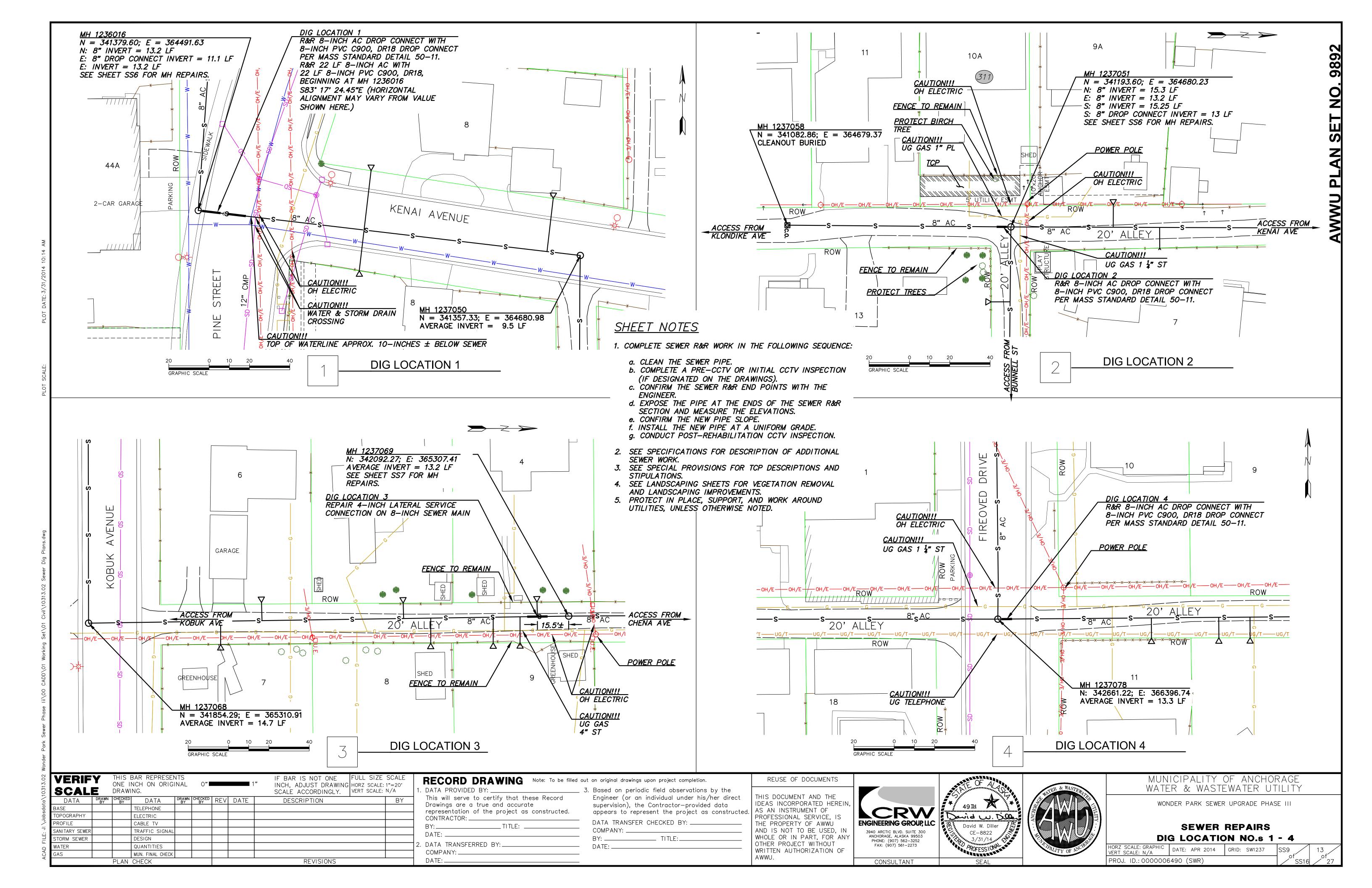
CONTRACTOR: _____ _____ TITLE: ____

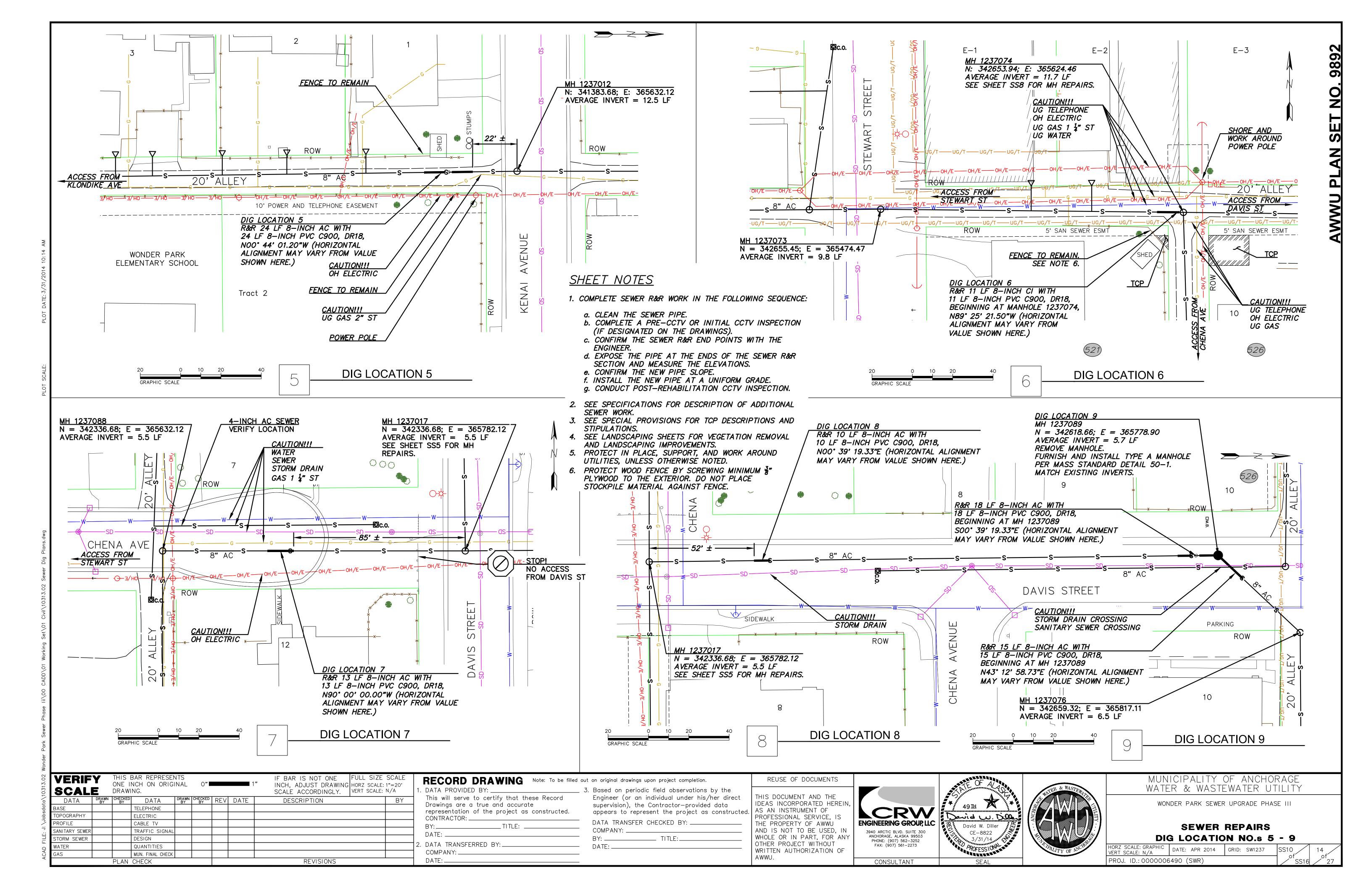
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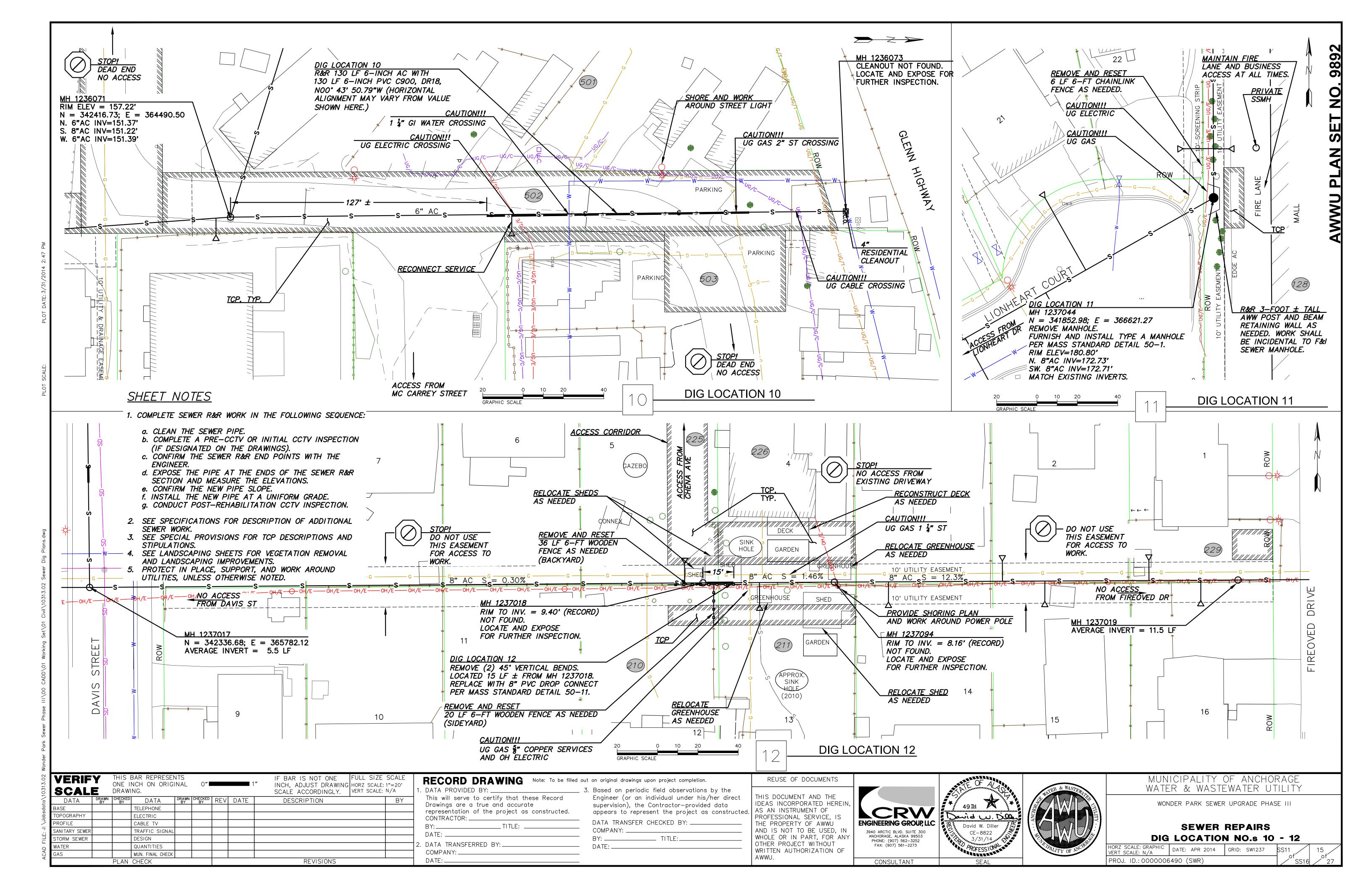
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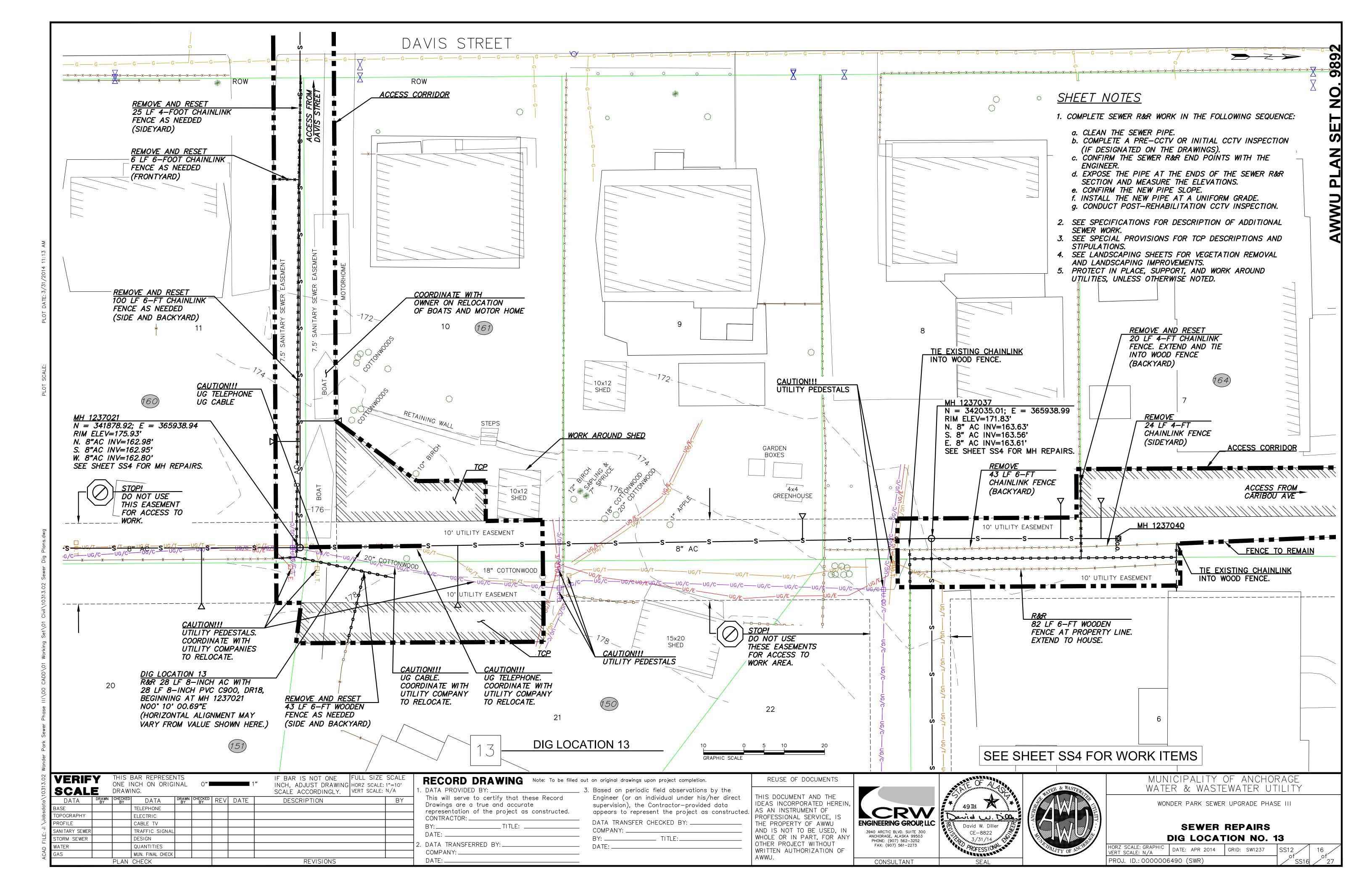
AWWU.

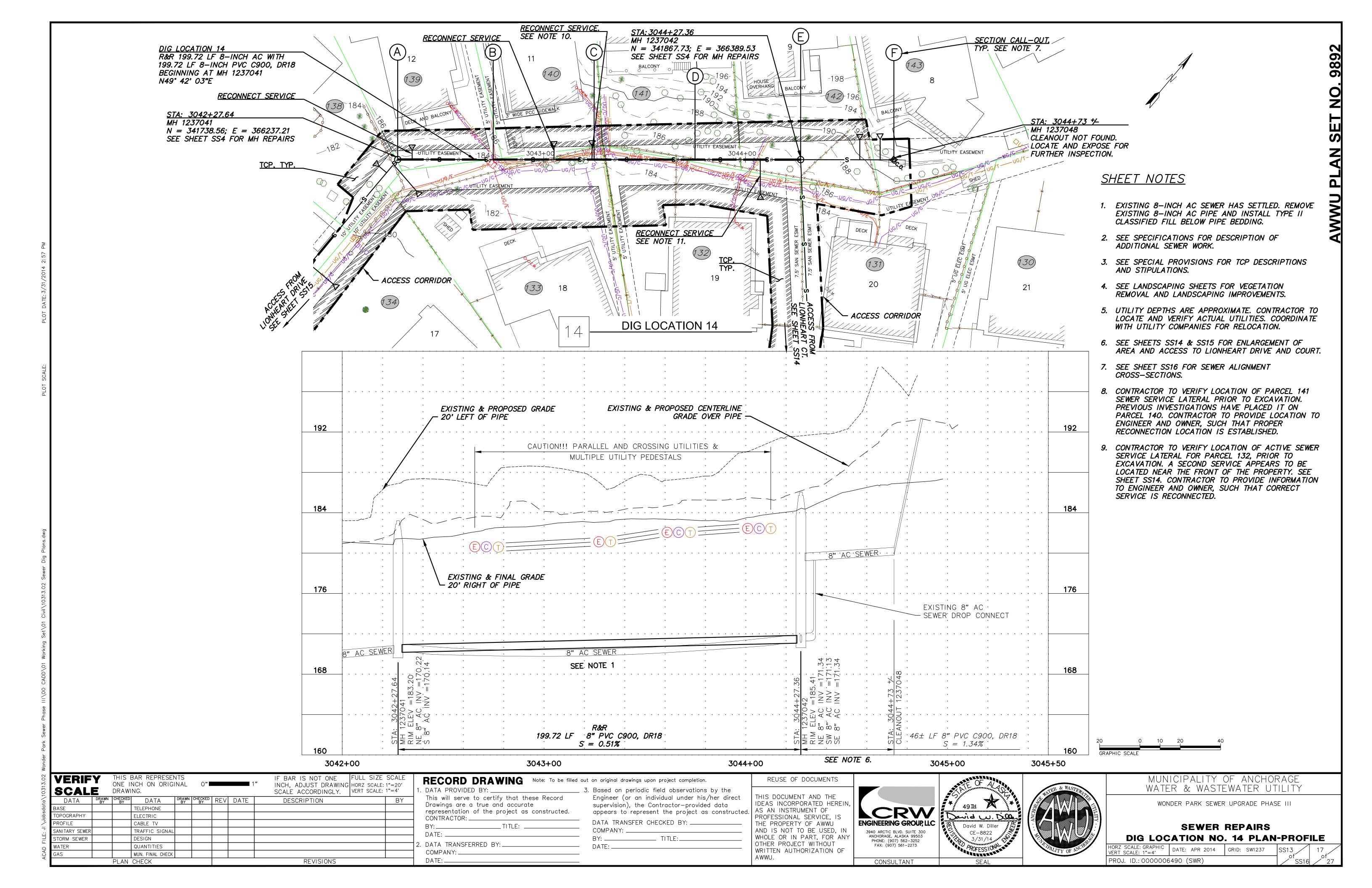
WRITTEN AUTHORIZATION OF CONSULTANT

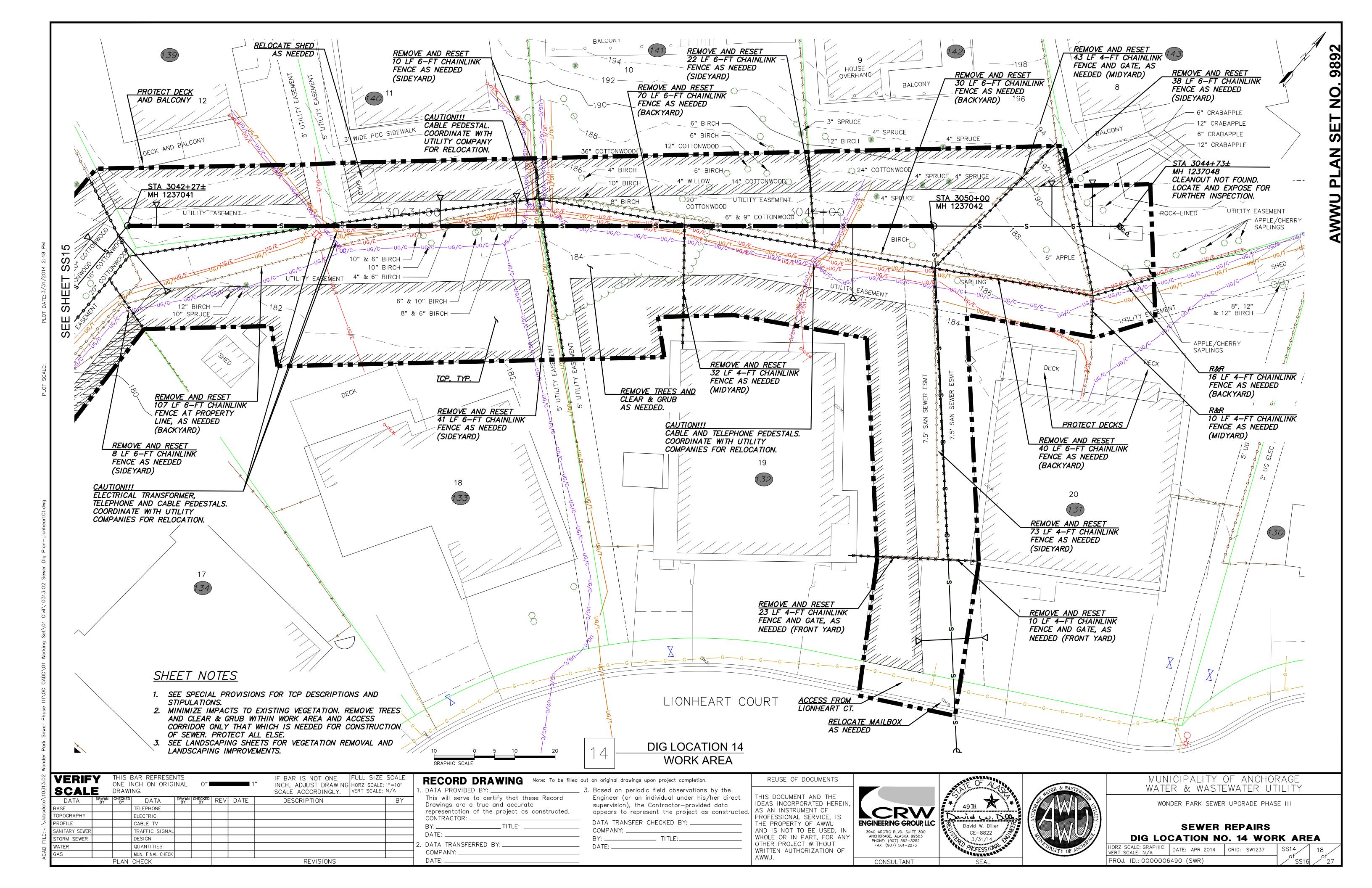


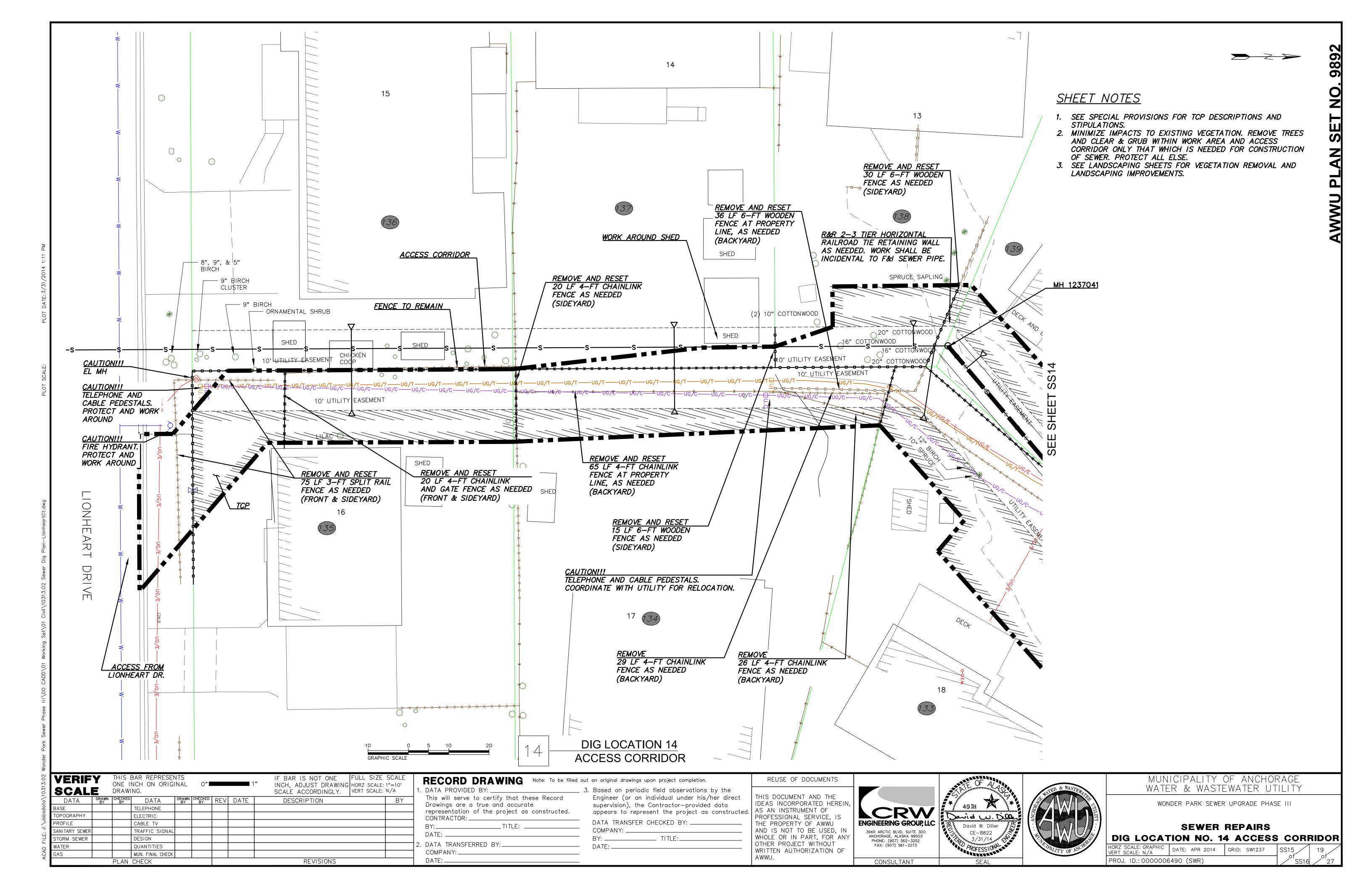


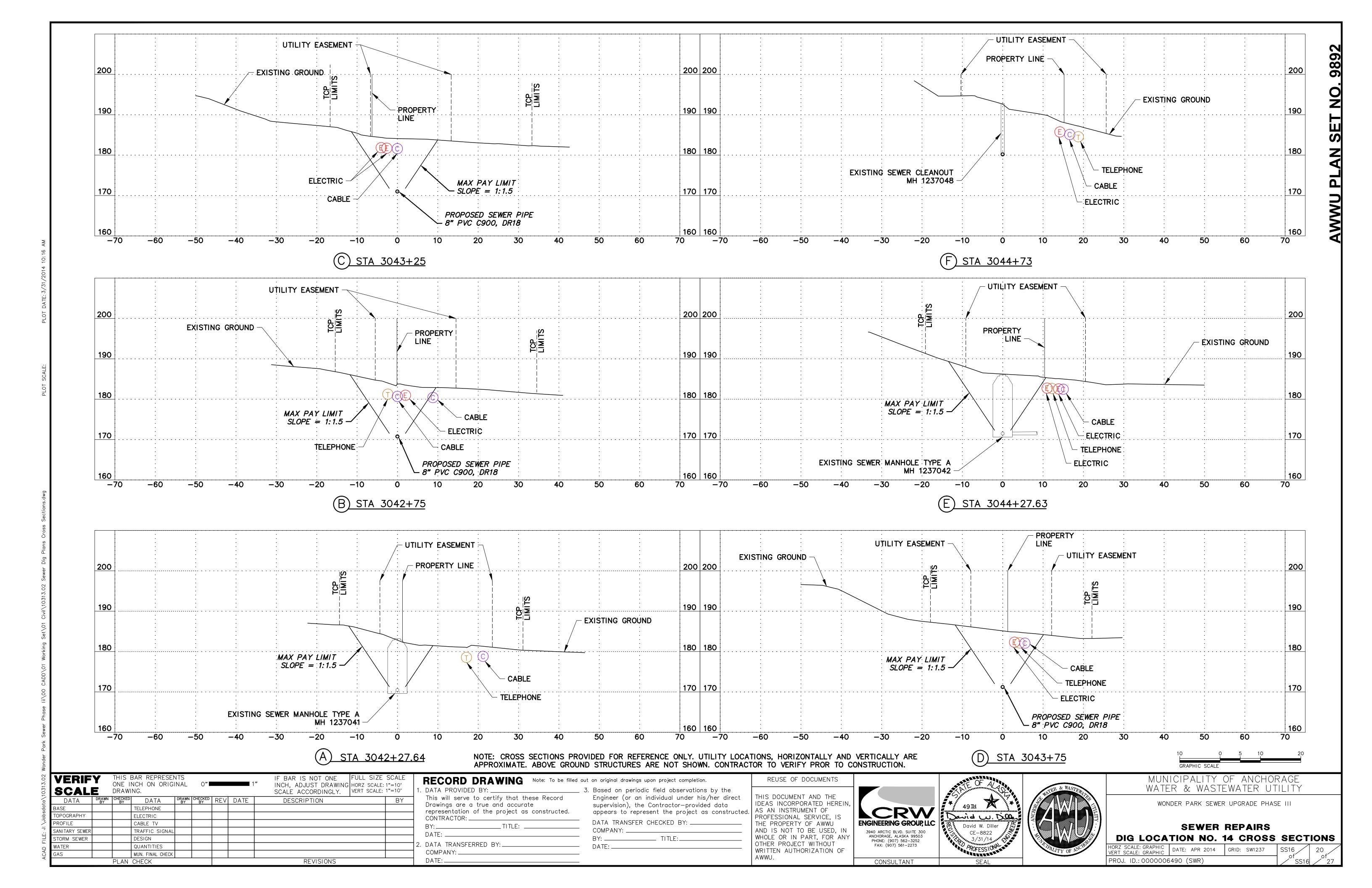












Sheet L2

Chena Avenue

Location Key Map

MUN. FINAL CHECK

RECORD DRAWING Note: To be filled out on original drawings upon project completion. 3. Based on periodic field observations by the . DATA PROVIDED BY: ____

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COMPANY: ____

DATA TRANSFER CHECKED BY: ____ COMPANY: _____ DATA TRANSFERRED BY:_____

Wonder Park Elementary School

East 4th Avenue

Sheet L3

Caribou Avenue

Sheet L6

Sheet L4

Lionheart Drive

Kobuk Avenue

Kenai Avenue

Klondike Avenue

Sheet L2

Sheet L4

Lancelot Drive

Sheet L5

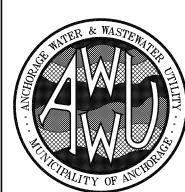
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earthscape

Scale: 1"=150' north

REUSE OF DOCUMENTS

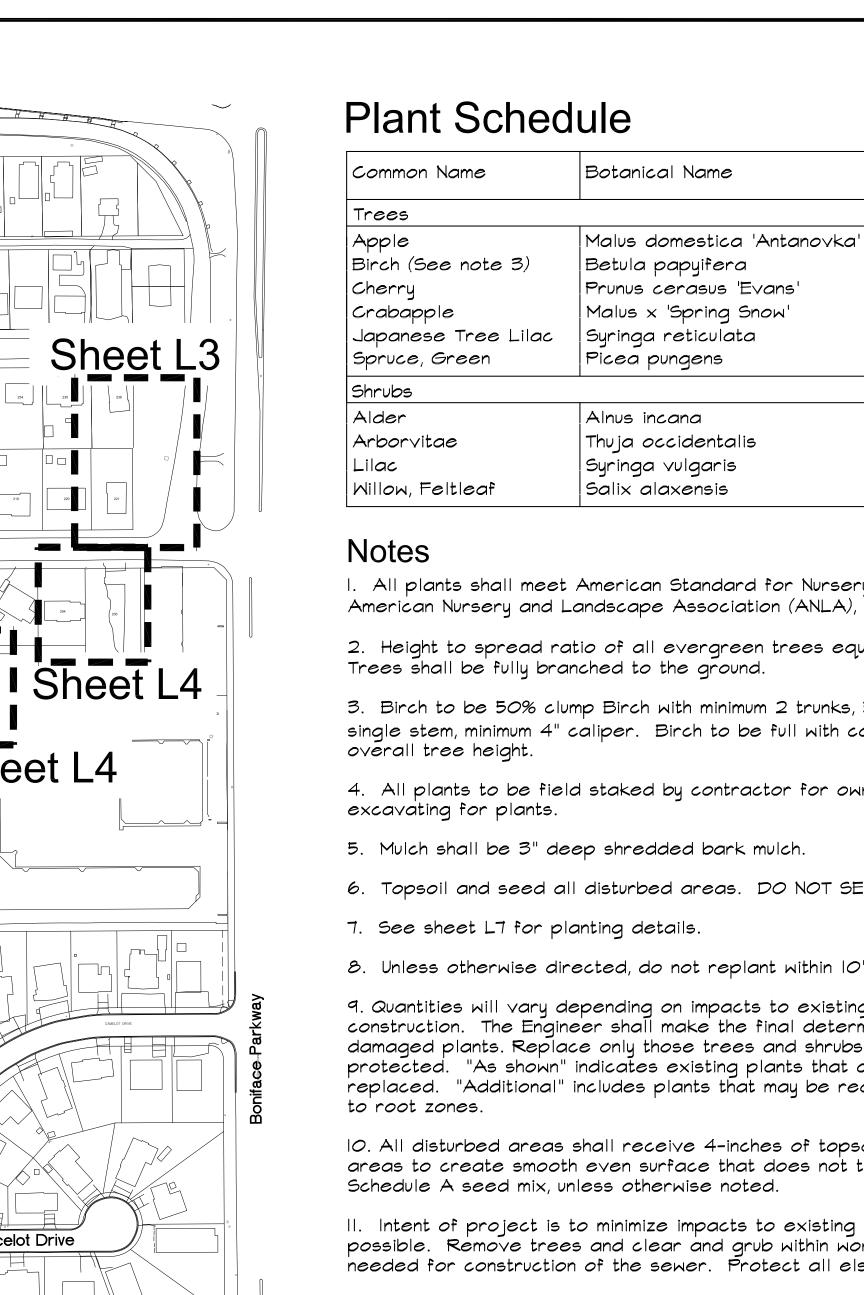




MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY WONDER PARK SEWER UPGRADE PHASE III

LANDSCAPE PLAN

HORZ SCALE: N/A VERT SCALE: N/A	DATE: APR 2014	GRID: SW1237	L1	21
PROJ. ID.: 0000006	490 (SWR)		01 L7	27



1. All plants shall meet American Standard for Nursery Stock (ANSI Z60.1-2004), American Nursery and Landscape Association (ANLA), www.anla.org

Quantity (see note 8)

Additional

As shown

0

0

Q

Spacina

as shown

as shown

10'0.0.

10' 0.0.

10' 0.0.

10' 0.0.

5' 0.0.

5' o.c.

5' o.c.

5' o.c.

Size

I" cal.

I" cal.

2" cal.

2.5" cal

ව' tall

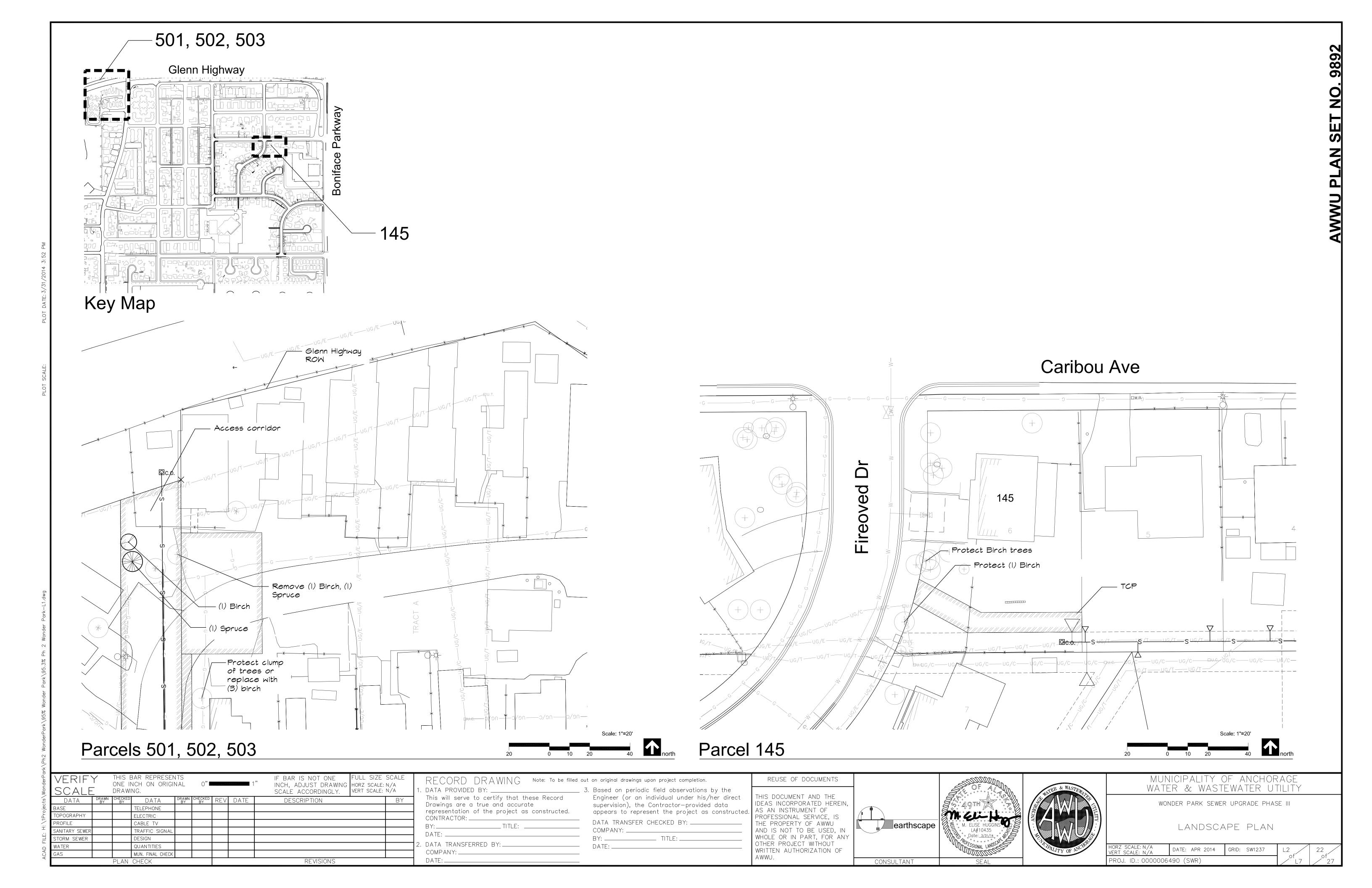
5' tall

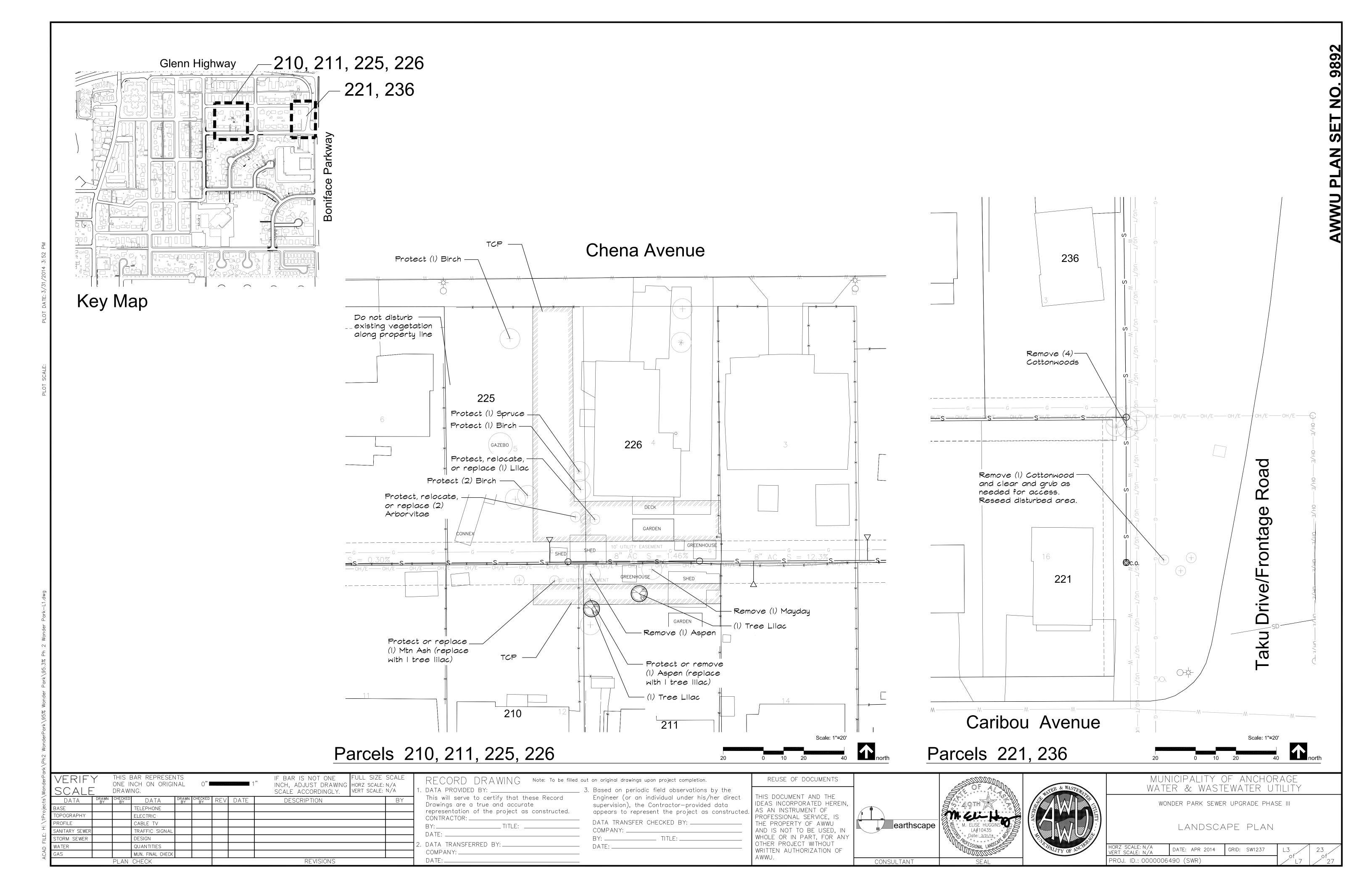
48" tall

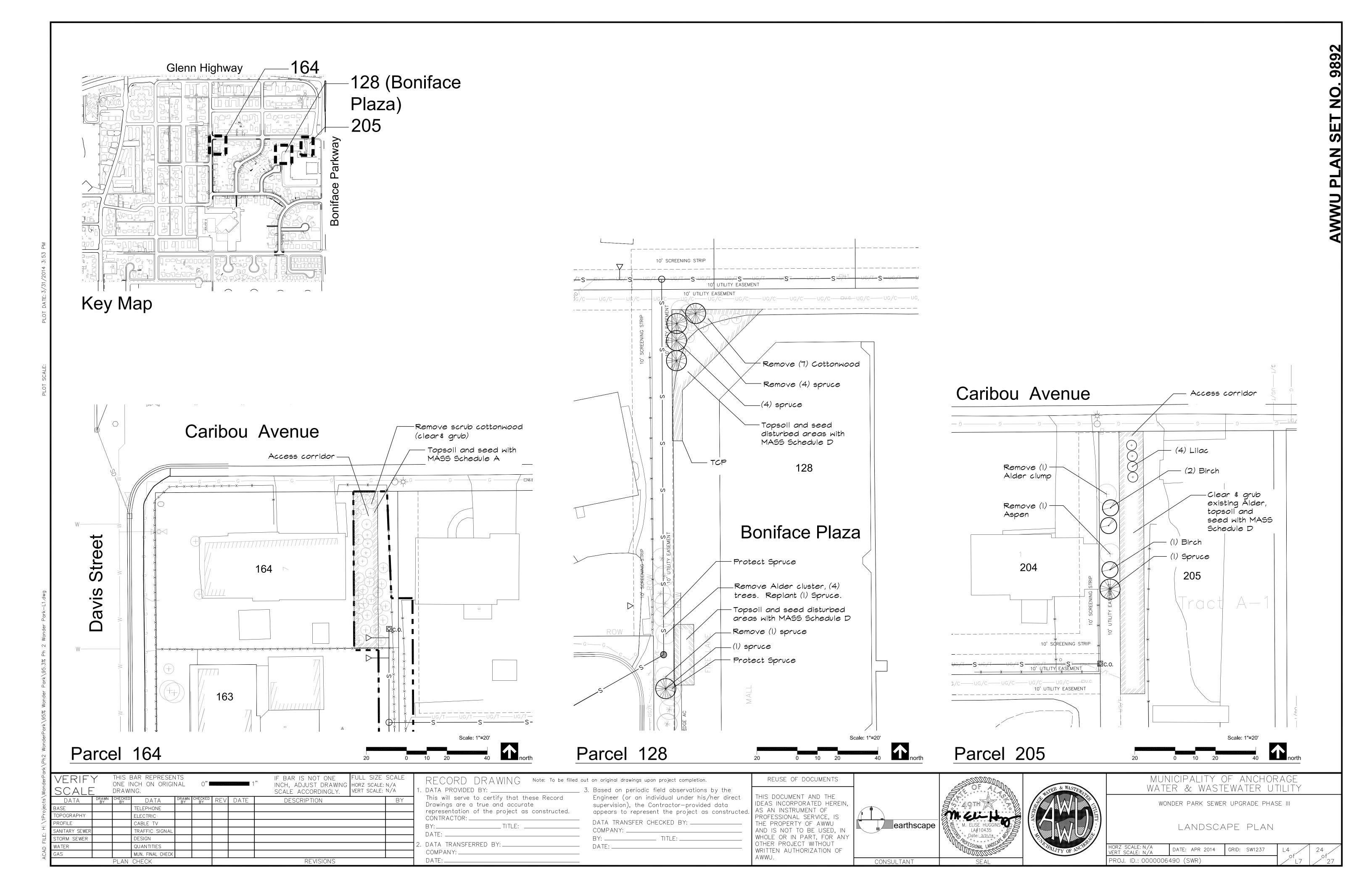
48" tall

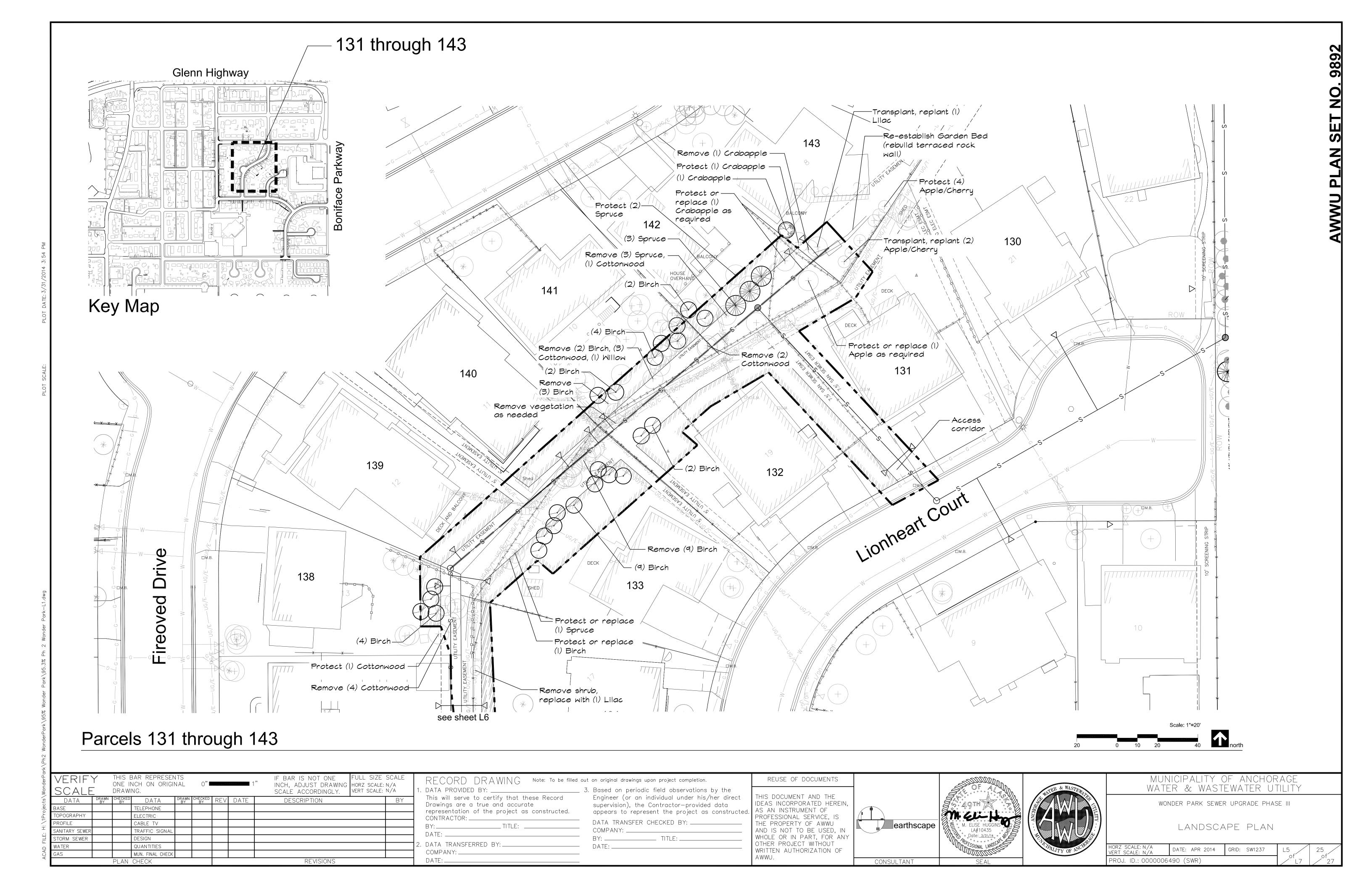
20' tall

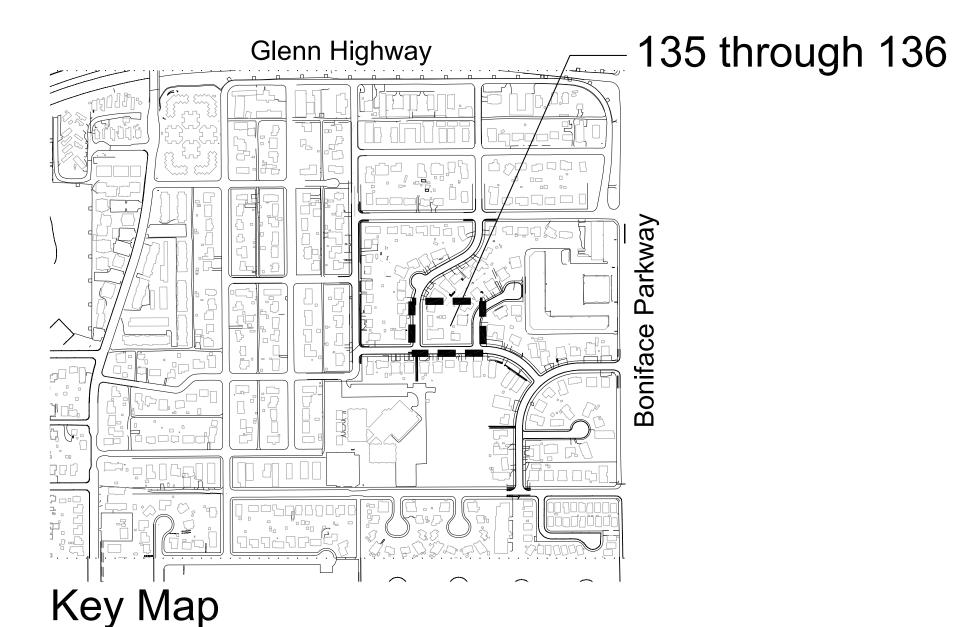
- 2. Height to spread ratio of all evergreen trees equal 5 (height):3 (spread).
- 3. Birch to be 50% clump Birch with minimum 2 trunks, 3"-4" caliper each, and 50% single stem, minimum 4" caliper. Birch to be full with canopy no less than $\frac{1}{2}$ of
- 4. All plants to be field staked by contractor for owner approval prior to
- 5. Mulch shall be 3" deep shredded bark mulch.
- 6. Topsoil and seed all disturbed areas. DO NOT SEED PLANTING BEDS.
- 8. Unless otherwise directed, do not replant within 10' of sewer line.
- 9. Quantities will vary depending on impacts to existing vegetation during construction. The Engineer shall make the final determination as to replacing damaged plants. Replace only those trees and shrubs that can not be adequately protected. "As shown" indicates existing plants that are to be removed and replaced. "Additional" includes plants that may be required as a result of damage
- 10. All disturbed areas shall receive 4-inches of topsoil, transition to adjacent areas to create smooth even surface that does not trap water. Seed with MASS Schedule A seed mix, unless otherwise noted.
- 11. Intent of project is to minimize impacts to existing vegetation as much as possible. Rémove trees and clear and grub within work zones only that which is needed for construction of the sewer. Protect all else.
- 12. Trees identified as being removed on the drawings shall be paid for depending on their size. Only trees greater or equal to 9.5" diameter as defined in the specials will be paid per each. Smaller trees will be incidental to "clearing and grubbing".
- 13. Not all trees are shown. Additional trees may need to be removed. Their size will determine how they are paid.

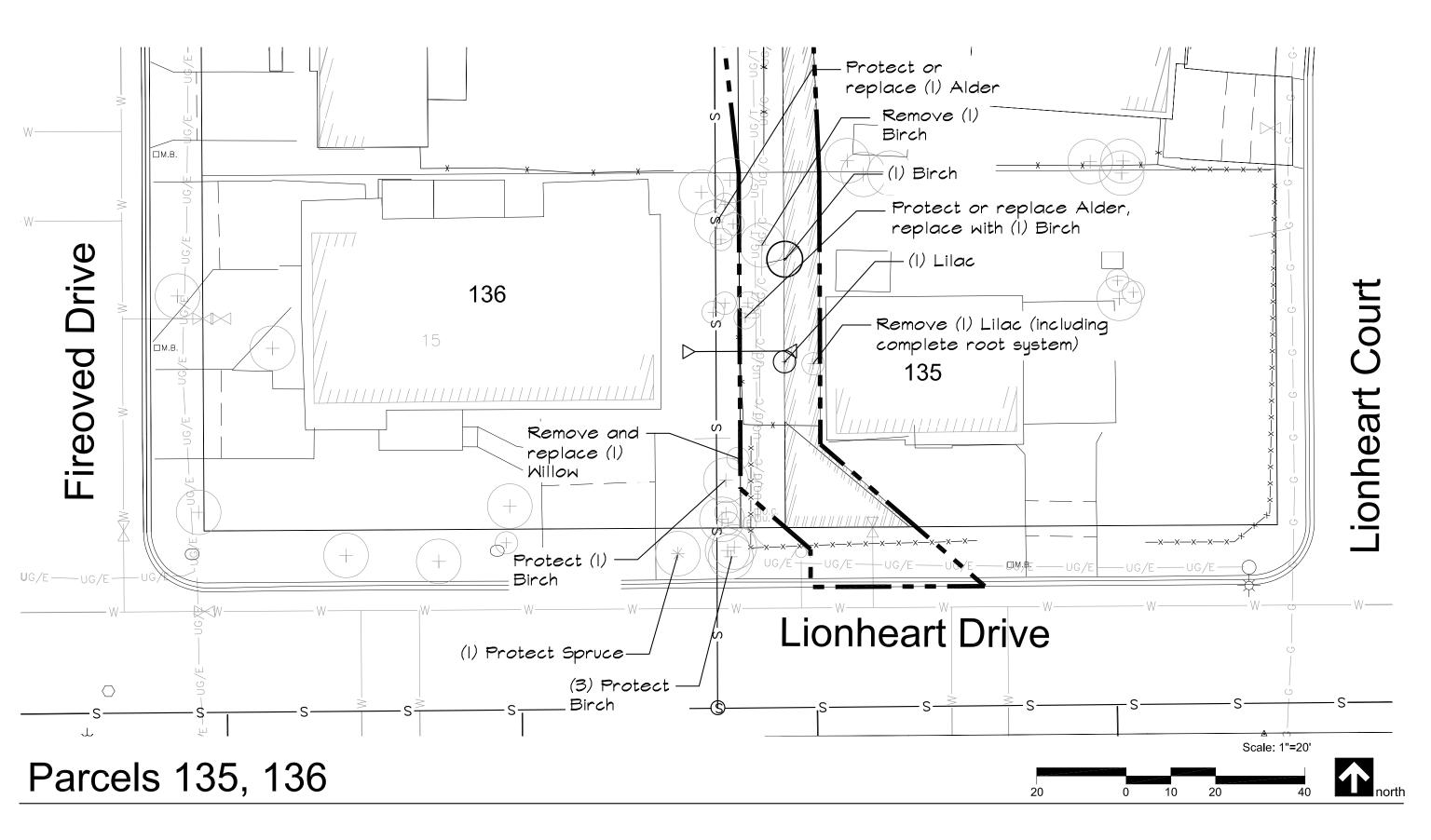


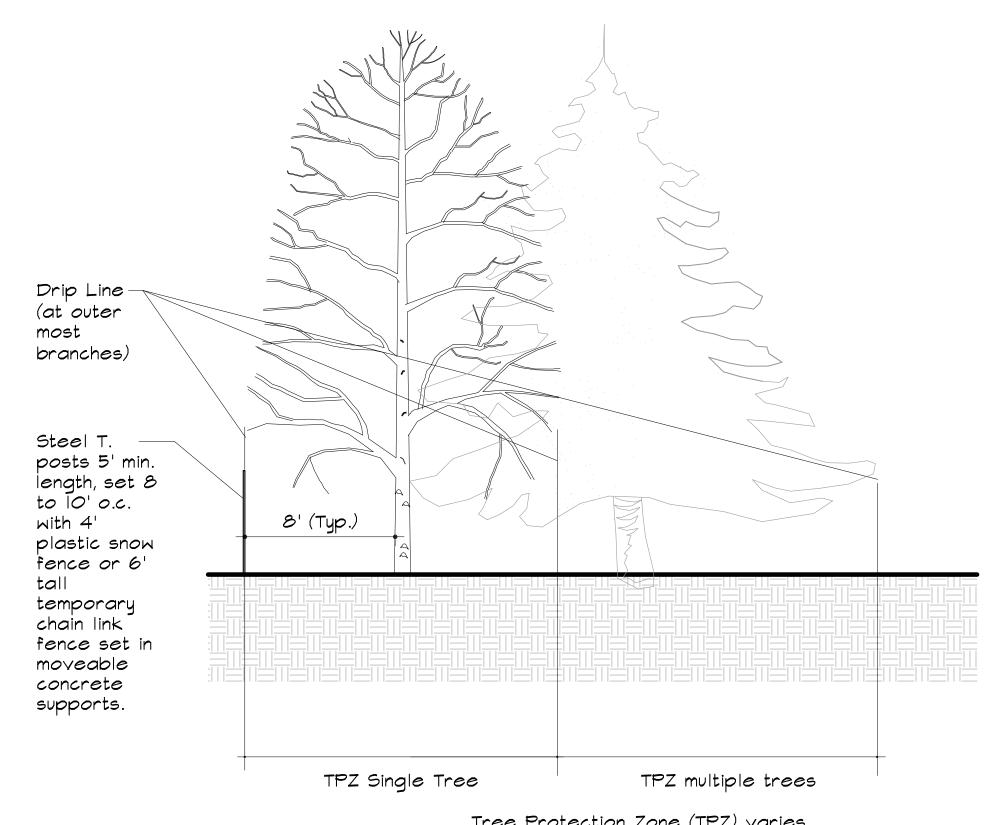












Tree Protection Zone (TPZ) varies depending on size and quantity of trees. Follow tree drip line.

Notes:

- 1. Prior to tree removal or work within proximity to trees, Contractor shall notify Engineer for joint field visit to stake trees to be protected, trees to be replaced and trees to be removed.
- 2. Flag trees accordingly.
- 3. Do not excavate, store materials, or compact soils within TPZ.
- 4. Excavation outside of TPZ shall take care in not damaging roots of protected trees. Use sharp tools to cleanly cut roots, do not loosen tree roots. Engineer may increase TPZ as required.
- 5. Install protection fencing as shown, install protection fence before work begins.
- 6. Contractor to maintain fence in vertical position and good repair throughout duration of work.
- 7. Fence may be removed at time of hydroseeding with Engineer's approval.

Tree Protection Zone

REUSE OF DOCUMENTS

√WonderPark∖	VERIF` SCALE	•		BAR REPRESEN NCH ON ORIGII NG.		0"■		1	"	INCH. ADJUST DRAWING HO	JLL SIZE S DRZ SCALE: N ERT SCALE: N	N/A	1
/	DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY	REV	DATE		DESCRIPTION		BY	
∖1Projects	BASE			TELEPHONE									
Pro	TOPOGRAPHY			ELECTRIC									
\[\tag{ }	PROFILE			CABLE TV									
ii ∴:	SANITARY SEWER			TRAFFIC SIGNAL									
FILE:	STORM SEWER			DESIGN									
	WATER			QUANTITIES] 2
ACAD	GAS			MUN. FINAL CHECK									
A			PLAN	CHECK						REVISIONS			

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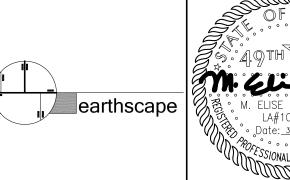
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DATE: ___

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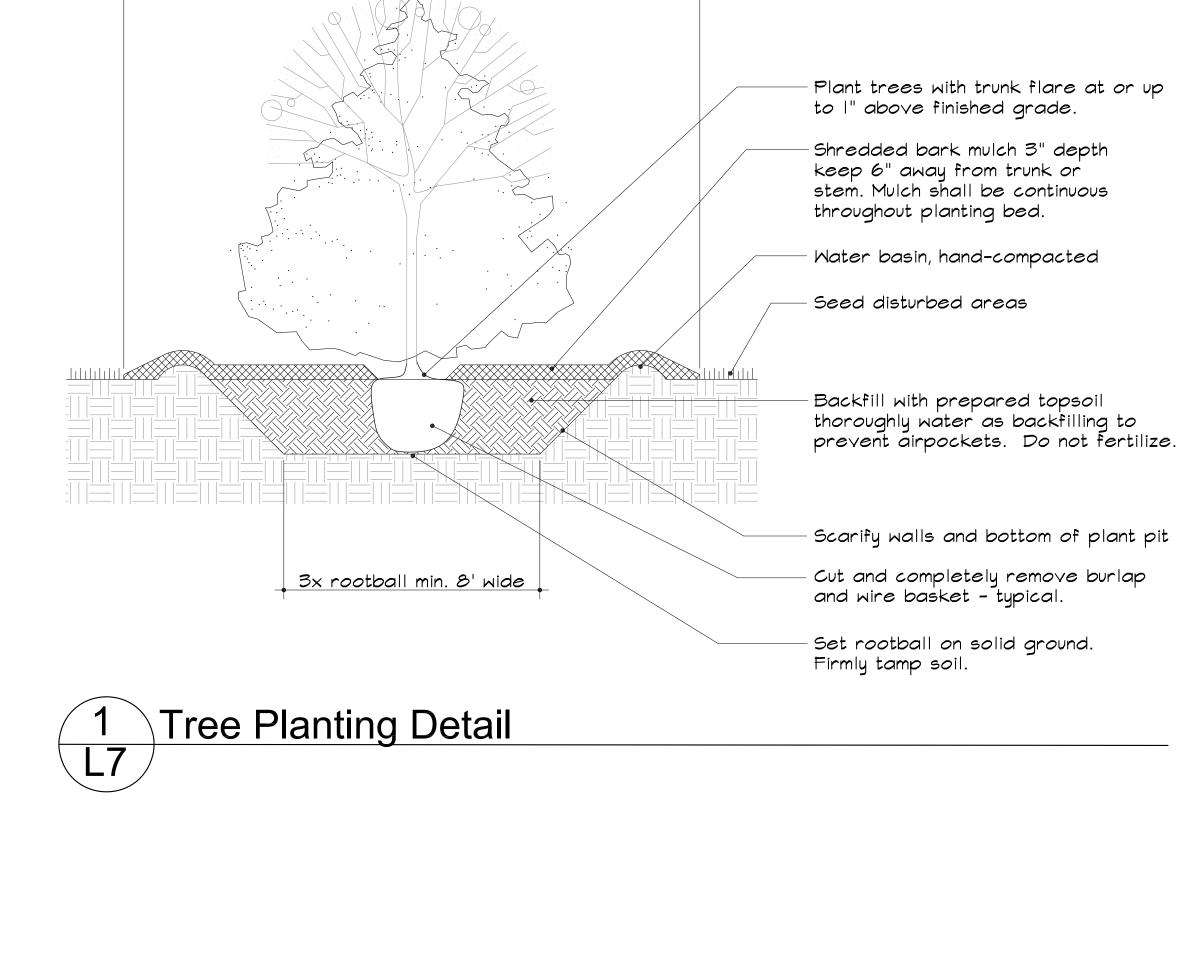


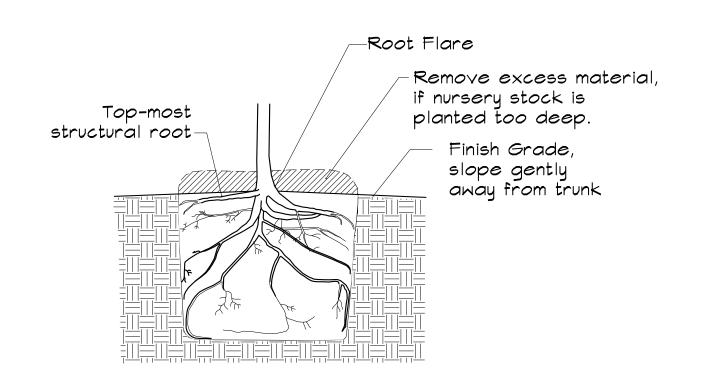
MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY

WONDER PARK SEWER UPGRADE PHASE III

LANDSCAPE PLAN

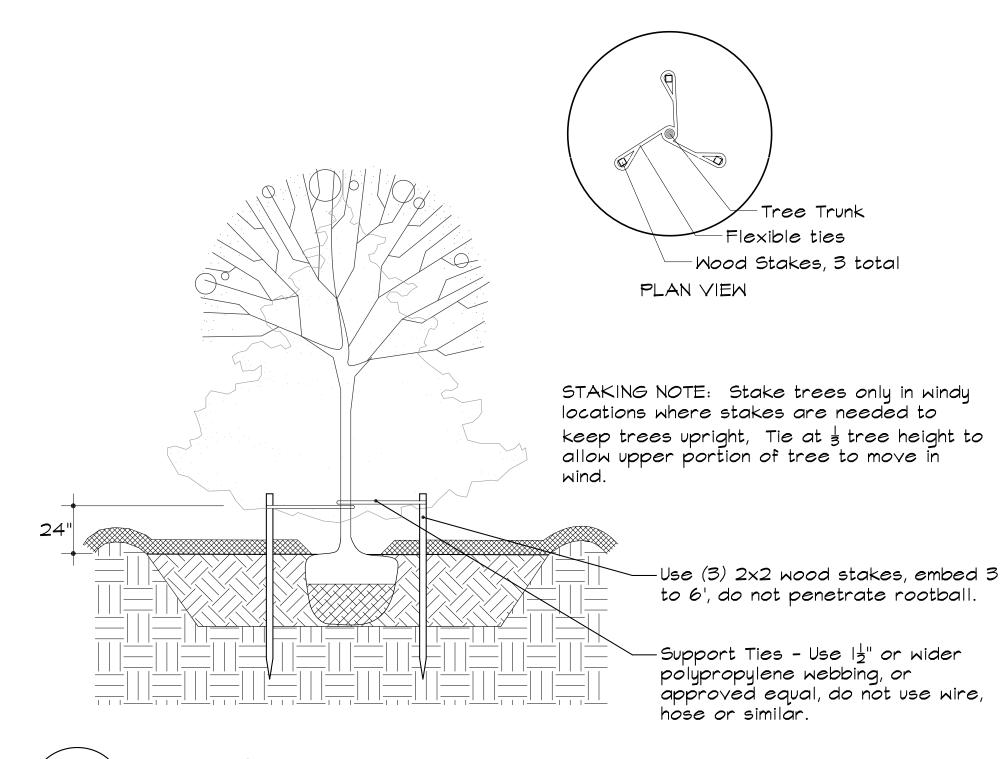
HORZ SCALE: N/A /ERT SCALE: N/A	DATE: APR 2014	GRID: SW1237	L6	26
PROJ. ID.: 0000006	490 (SWR)		01 L7	/0127



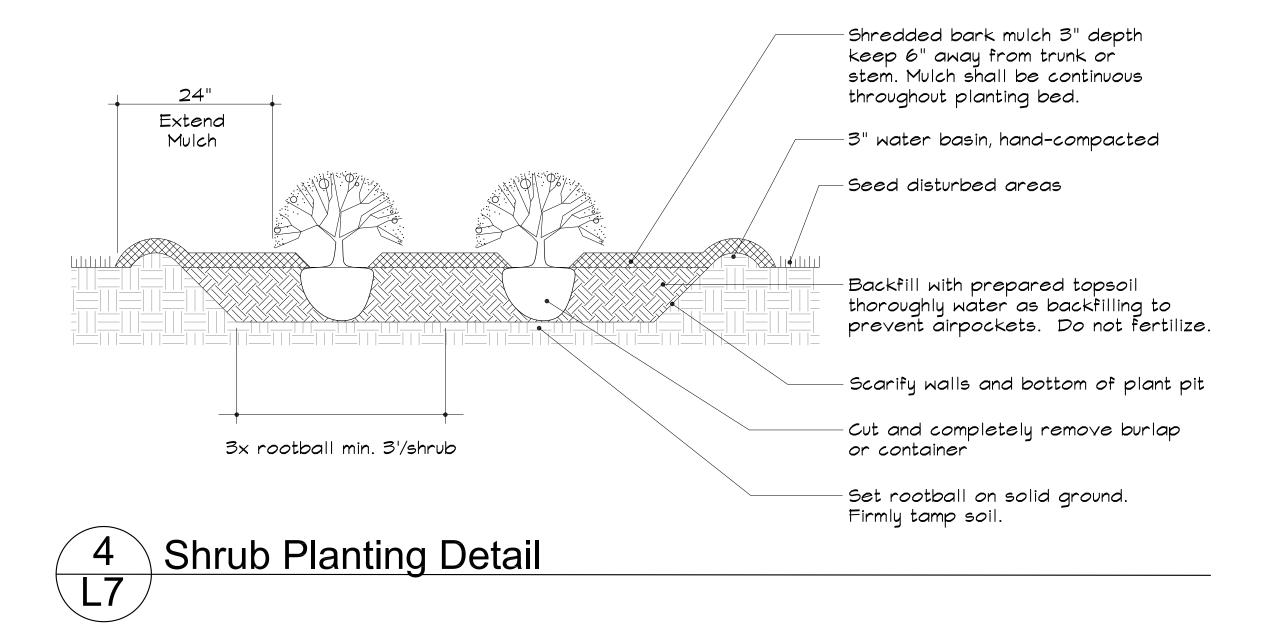


10'-0" Mulch Area

Tree Planting Depth Detail







√WonderPa	VERIFY SCALE		DRAWING.				1"			IF BAR IS NOT ONE FULL SIZE INCH, ADJUST DRAWING HORZ SCAL SCALE ACCORDINGLY.		N/A	1.	
/	DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY	REV	DATE		DESCRIPTION		BY]	
\1Projects	BASE			TELEPHONE]	
Pro	TOPOGRAPHY			ELECTRIC										
: \	PROFILE			CABLE TV]	
Ξ	SANITARY SEWER			TRAFFIC SIGNAL										
FILE:	STORM SEWER			DESIGN										
	WATER			QUANTITIES] 2.	
ACAD	GAS			MUN. FINAL CHECK										
7	PLAN CHECK							REVISIONS						

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Drawings are a true and accurate representation of the project as constructed.

BY:______TITLE: _____ . DATA TRANSFERRED BY:_____

COMPANY: _____

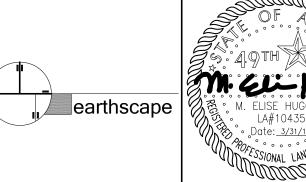
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MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY

WONDER PARK SEWER UPGRADE PHASE III

LANDSCAPE DETAILS

HORZ SCALE: N/A /ERT SCALE: N/A	SW1237	L7	27 25		
PROJ. ID.: 0000006	/ ⁰¹ L7	/ ⁰¹ 27			