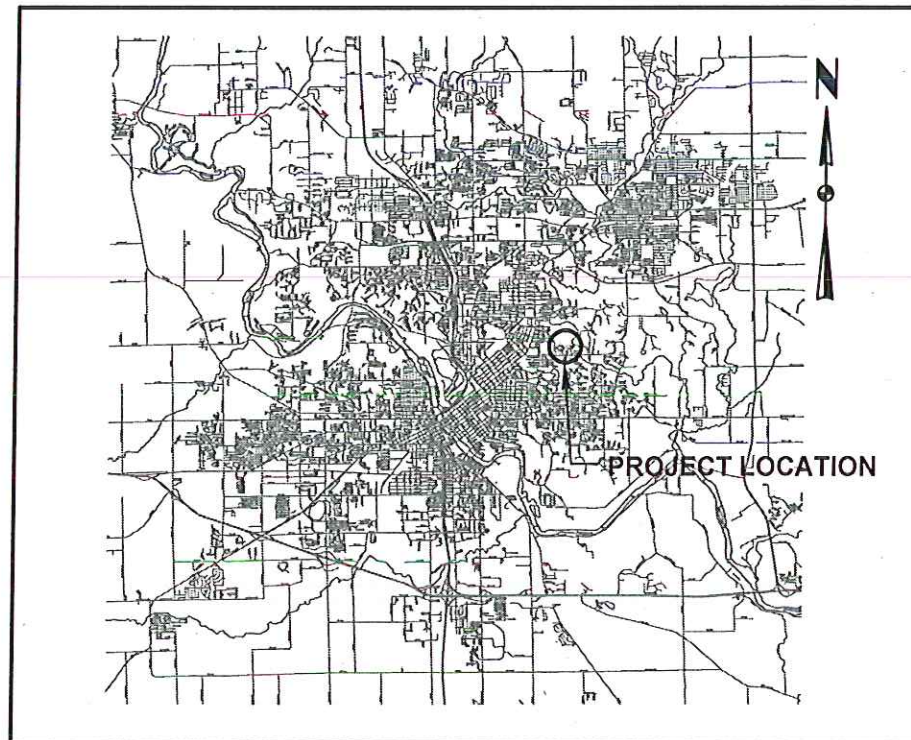
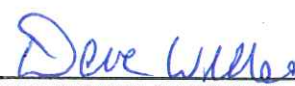
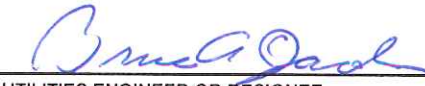
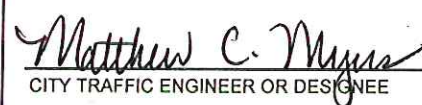


**PLANS OF IMPROVEMENTS FOR:
2016
COTTAGE GROVE LANE STORM SEWER IMPROVEMENTS
CITY OF CEDAR RAPIDS, IOWA
CIP NUMBER 304447
CONTRACT NUMBER 304447-02**




LOCATION MAP
NOT TO SCALE



INDEX OF SHEETS	
SHEET No.	DESCRIPTION
A.01	TITLE SHEET
A.02	GENERAL PLAN, LEGEND AND NOTES
D.01	SITE PLAN

CITY OF CEDAR RAPIDS	
THIS ENGINEERING DOCUMENT IS APPROVED.	
	4/12/16
CITY ENGINEER OR DESIGNEE	DATE
	4/8/16
UTILITIES ENGINEER OR DESIGNEE	DATE
	4/11/2016
CITY TRAFFIC ENGINEER OR DESIGNEE	DATE

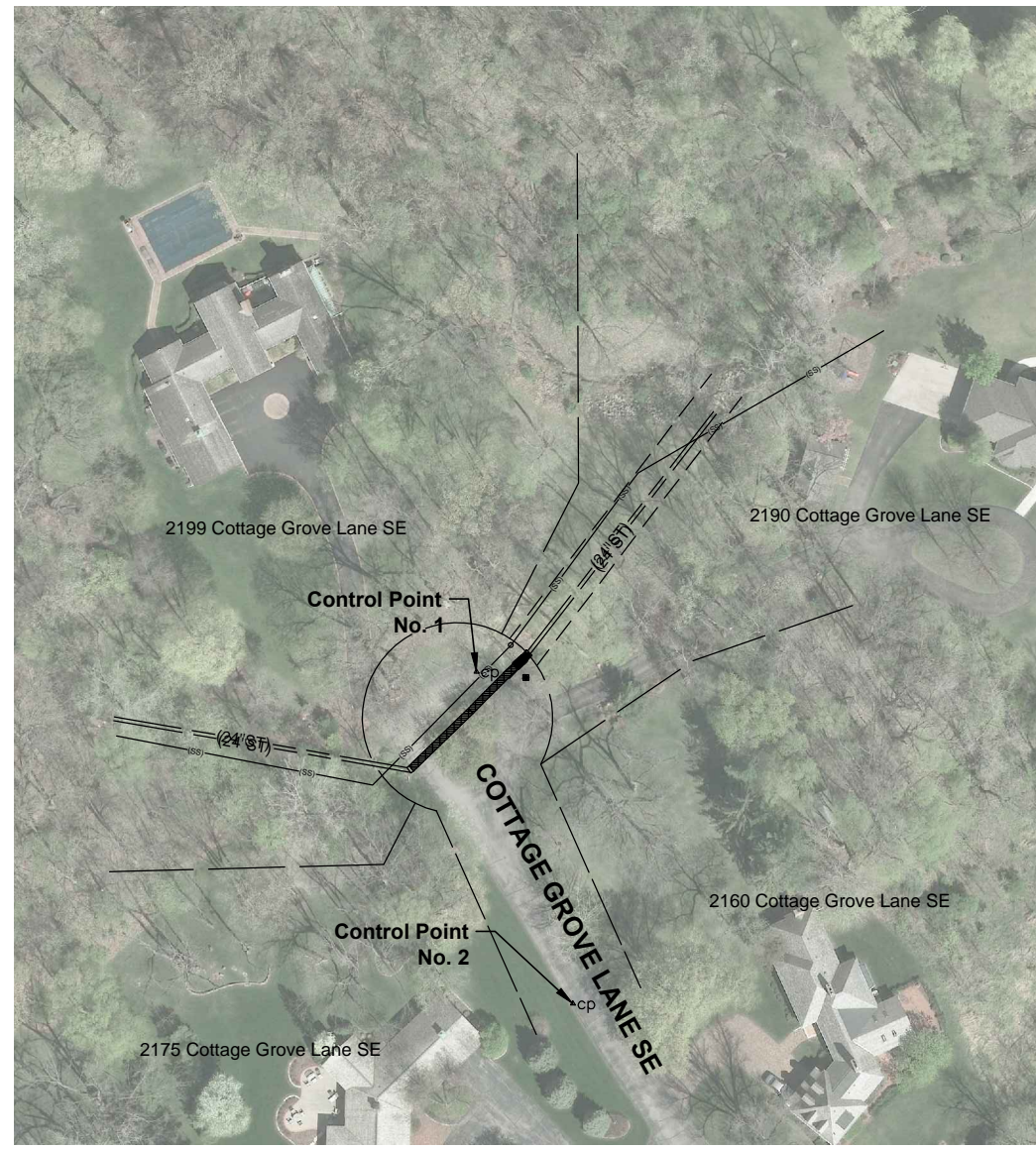
PLANS PREPARED BY: CITY OF CEDAR RAPIDS, PUBLIC WORKS 500 15TH AVENUE SW, CEDAR RAPIDS, IA 52404 PHONE: 319-286-5802
--

PLANS PREPARED FOR:	
	
CEDAR RAPIDS City of Five Seasons	
CITY COUNCIL:	
MAYOR:	RON CORBETT
AT LARGE:	ANN POE
AT LARGE:	RALPH RUSSELL
AT LARGE:	SUSIE WEINACHT
DISTRICT 1:	KRIS GULICK
DISTRICT 2:	SCOTT OVERLAND
DISTRICT 3:	PAT SHEY
DISTRICT 4:	SCOTT OLSON
DISTRICT 5:	JUSTIN SHIELDS

NOTE:
THE PROPOSED IMPROVEMENTS INCLUDED IN THESE DRAWINGS
HAVE BEEN DESIGNED IN ACCORDANCE WITH THE CEDAR RAPIDS
METROPOLITAN AREA DESIGN STANDARDS MANUAL (LATEST
EDITION) WITH NO DESIGN EXCEPTIONS.

	I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.
	 4-4-16 GARRETT C. PRESTEGARD, P.E. DATE LICENSE NUMBER: 22312 MY LICENSE RENEWAL DATE IS: DECEMBER 31, 2017 PAGES OR SHEETS COVERED BY THIS SEAL: ALL

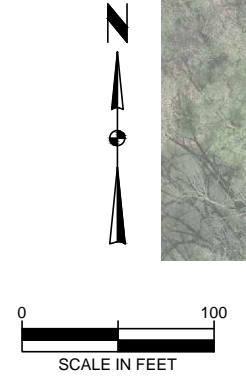
EXISTING		PROPOSED (AS-BUILT)	
— — — — —	RIGHT-OF-WAY	— — — — —	RIGHT-OF-WAY
— — — — —	PROPERTY LINE	— — — — —	PROPERTY LINE
- - - - -	UTILITY EASEMENT	- - - - -	UTILITY EASEMENT
— — — — — 24"ST	24-INCH STORM SEWER	— — — — — 24"ST	24-INCH STORM SEWER
— — — — — (W)	WATER	— — — — — W	WATER
— — — — — (G)	GAS	— — — — — G	GAS
— — — — — (E)	ELECTRICAL - UNDERGROUND	— — — — — E	ELECTRICAL - UNDERGROUND
— — — — — (FO)	FIBER OPTIC - UNDERGROUND	— — — — — FO	FIBER OPTIC - UNDERGROUND
— — — — —	SILT FENCE	— — — — —	SILT FENCE
— — — — —	SEEDING LIMITS	— — — — —	SEEDING LIMITS
■	TELEPHONE PEDESTAL	■	TELEPHONE PEDESTAL
□	HANDHOLE	□	HANDHOLE
○	MANHOLE	○	MANHOLE
⊗	VALVE, WATER OR GAS	⊗	VALVE, WATER OR GAS
⊙	CLEANOUT, STORM OR SANITARY	⊙	CLEANOUT, STORM OR SANITARY
▨	CURB AND APRON INTAKE	▨	CURB AND APRON INTAKE
▨ OR ○	GRATE INTAKE	▨ OR ○	GRATE INTAKE



- GENERAL NOTES (ENTIRE PROJECT):**
- THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CEDAR RAPIDS METROPOLITAN AREA STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC IMPROVEMENTS, LATEST EDITIONS.
 - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL EXISTING UTILITIES AND PAVED AREAS, INCLUDING ANY NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER IF ANY CONFLICTS WITH THE DRAWINGS OCCUR. ANY DAMAGE TO EXISTING UTILITIES, SOD, LANDSCAPE AND/OR PAVED AREAS CAUSED BY TRENCHING, GRADING, AND PAVING OPERATIONS NOT IDENTIFIED FOR REPLACEMENT SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. EXISTING UTILITY LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE.
 - PROVIDE POSITIVE DRAINAGE AT ALL TIMES WITHIN THE CONSTRUCTION AREAS. DO NOT ALLOW WATER TO DRAIN OR TO POND ONTO ADJOINING PROPERTY OR PUBLIC RIGHT-OF-WAY.
 - ALL DEBRIS RESULTING FROM CONSTRUCTION OPERATIONS SHALL BE PROPERLY DISPOSED OF OFF-SITE.
 - RESTORE LANDSCAPED AND LAWN AREAS DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION UPON COMPLETION OF CONSTRUCTION.
 - ALL WORK TO BE COMPLETED WITHIN EASEMENTS AND PUBLIC R.O.W.
 - TRAFFIC CONTROL PROVIDED SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), IOWA DOT STANDARD ROAD PLANS AND/OR CEDAR RAPIDS METROPOLITAN AREA STANDARD DETAILS FOR PUBLIC IMPROVEMENTS. CONTRACTOR SHALL MAINTAIN DRIVEWAY ACCESS FOR ADJACENT PROPERTY OWNERS THROUGHOUT THE DURATION OF THE PROJECT.
 - TRAFFIC CONTROL ITEMS SHALL BE FURNISHED, INSTALLED, MAINTAINED AND REMOVED BY THE CONTRACTOR.

EROSION CONTROL NOTES:

- THIS PROJECT SHALL BE CONSTRUCTED IN COMPLIANCE WITH THE LATEST EDITION OF MUNICIPAL CODE CHAPTER 71 "EROSION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES" AND CHAPTER 72 "STORM WATER MANAGEMENT".
- THE EROSION AND SEDIMENT CONTROL MEASURES INDICATED ON THE PLAN ARE THE MINIMUM REQUIRED. ADDITIONAL OR CORRECTIVE MEASURES MAY BE REQUIRED AS DIRECTED BY THE ENGINEERS SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBING ACTIVITIES.
- ALL EROSION AND SEDIMENT CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE CONTRACTOR WILL BE RESPONSIBLE FOR PERMITTING, INSPECTION, AND REPAIR OF EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION.
- PRESERVE EXISTING VEGETATION WHEN POSSIBLE BY MINIMIZING THE DISTURBED AREA DURING CONSTRUCTION.
- ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AND PROPERLY DISPOSED OF AFTER PERMANENT VEGETATION HAS BEEN ESTABLISHED ON UP-SLOPE AREAS.



UTILITY AND EMERGENCY PHONE NUMBERS	
Agency	Contact Number
City of Cedar Rapids, Iowa	
Public Works	(319) 286-5802
Engineering	
Traffic Engineering	
Sewer Maintenance Program	
Utilities Department	
Water Division	(319) 286-5910
Police Department	
Business	(319) 286-5491
Emergency	911
Fire Department	
Business	(319) 286-5200
Emergency	911
Iowa One Call (Utilities)	(800) 292-8989
MidAmerican Energy	
Business	(319) 286-5162
Emergency	(800) 595-5325
Centurylink	
Engineer	(319) 399-7600
Alliant (Electric, Steam)	
Business	(319) 398-4406
Locates	(800) 292-8989
Mediacom	
Business	(319) 395-9699
Locates	(800) 292-8989
AT&T (Telephone)	(319) 364-6111
ImOn Communications	
Business	(319) 261-4640
Emergency	(800) 298-8484



UTILITY QUALITY SERVICE LEVELS
UNLESS OTHERWISE NOTED, QUALITY LEVELS OF UTILITIES SHOWN ON THESE PLANS ARE

LEVEL "C" (INFORMATION IS DERIVED FROM SURVEYING VISIBLE ABOVE GROUND UTILITY FACILITIES AND CORRELATING THIS INFORMATION WITH EXISTING UTILITY RECORDS).

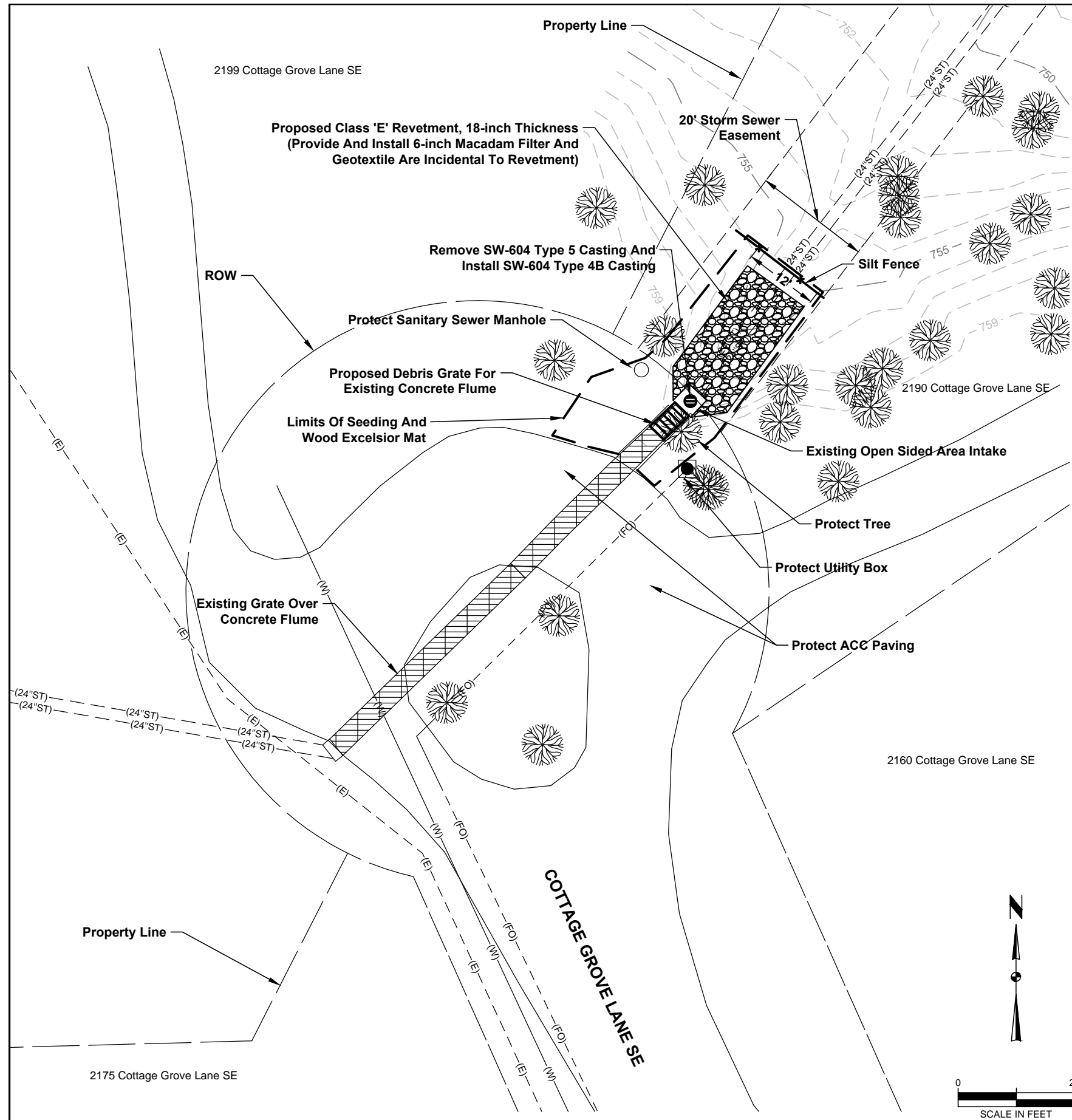
THE QUALITY LEVELS ARE BASED ON THE CI / ASCE 38-02 STANDARD.

SUMMARY OF QUANTITIES				
Item No.	Bid Item	Total Units	Unit of Measure	
1	01100-01 Mobilization	1	LS	
2	01100-10 Construction Surveys	1	LS	
3	01200-01 Traffic Control	1	LS	
4	01300-01 Temporary Erosion and Sediment Controls	1	LS	
5	01300-10 Silt Fence	20	LF	*
6	02400-31 Debris Grate Assembly	1	EA	
7	02400-41 Area Intake Casting, SW-605 Type 4B	1	EA	
8	02600-01 Revetment, Class 'E', 18-inch	27	TN	*
9	02900-01 Import Topsoil	12	CY	**
10	02900-10 Seeding, Fertilizing, and Mulching	51	SY	*
11	02900-40 Wood Excelsior Mat	51	SY	*

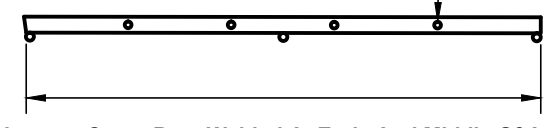
Includes 5% Contingency (Added To Plan Quantity) = *
Includes 45% Shrinkage Factor (Added To Plan Quantity) = **

CONTROL POINT DATA				
No.	NORTHING	EASTING	ELEV.	DESC.
1	3467959.9	5431481.7	761.92	PK Nail
2	3467785.4	5431532.4	770.98	PK Nail

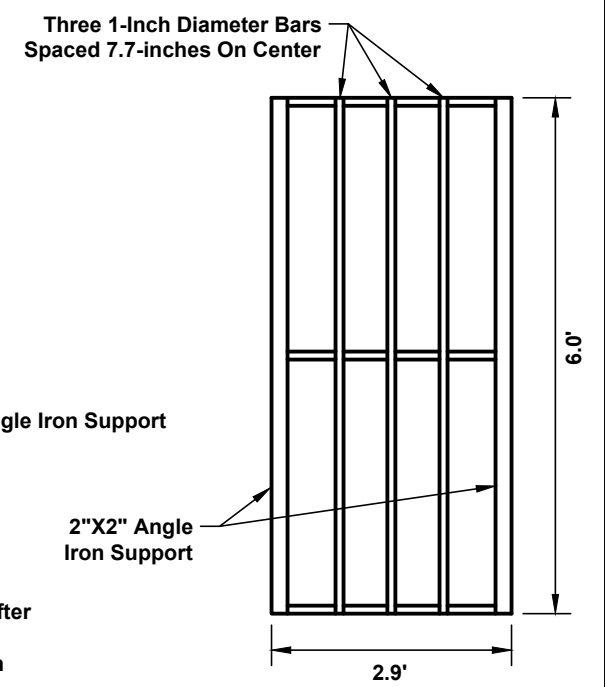
Plot Date: 4/4/2016 10:43 AM
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Drill 7/8" Diameter Holes Using Equipment Designed To Cut Through Concrete And Reinforcing Steel. Set Approved Anchor Bolts Using Epoxy Grout As Described In Iowa DOT Materials I.M. 453.08 For Anchor Bolts, Anchor Bolts Shall Be Set In Existing Concrete Wall A Minimum Of 3-inches Deep. All Irons Shall Be Affixed To The Existing Concrete Wall In This Manner. Bolts Shall Be Spaced 1.2' On Center.



PROFILE VIEW

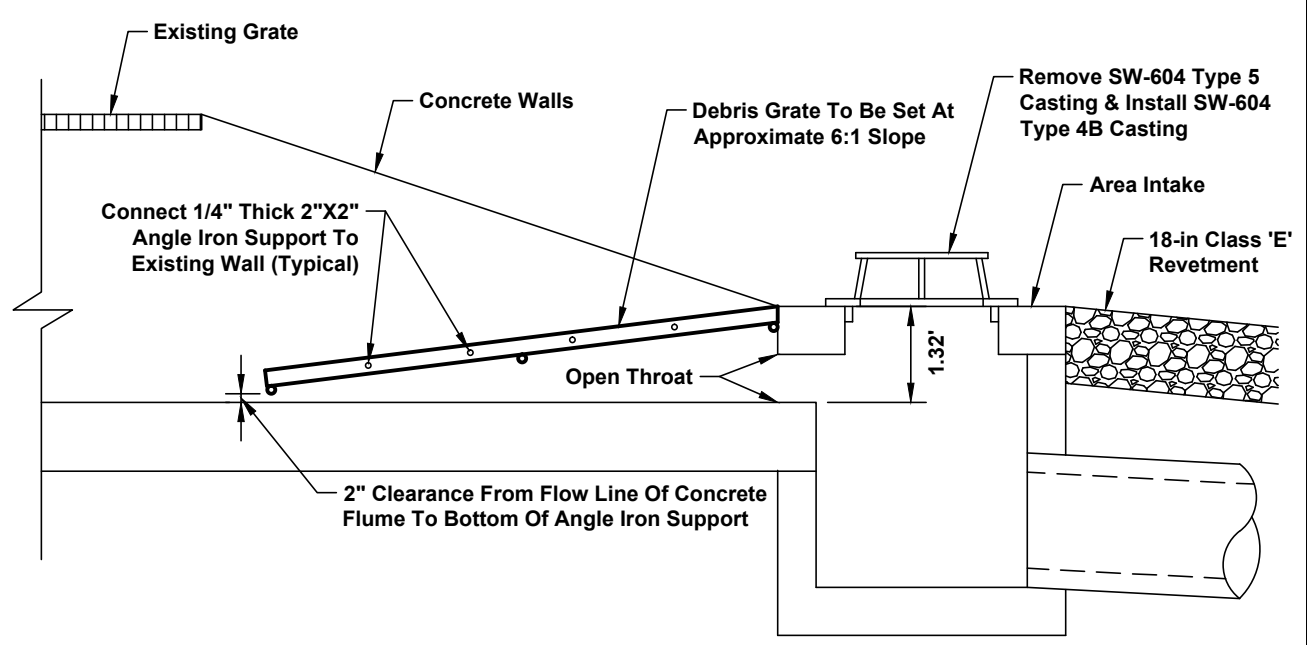


PLAN VIEW

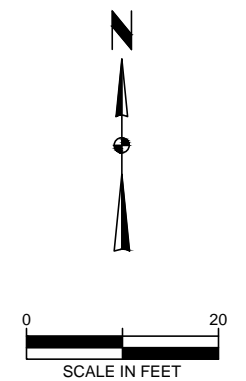
NOTES:

1. Paint Grates With Two (2) Coats Of Rust Resistant Paint After Fabrication. Paint Shall Be A High Zinc Dust Content Paint Conforming To The Requirements Of Federal Specification TT-P-641, Type 3.
2. Structural Steel As Per Iowa DOT Section 4152 Shall Be Used.
3. Contractor Shall Weld The Cross Bars To The Angle Iron Support.
4. Contractor Shall Field Verify Dimensions Of Grate Prior To Fabrication.

DEBRIS GRATE FOR EXISTING CONCRETE FLUME
(NOT TO SCALE)




DEBRIS GRATE FOR EXISTING CONCRETE FLUME (PROFILE)
(NOT TO SCALE)



PREPARED BY:
CITY OF CEDAR RAPIDS, PUBLIC WORKS
500 15TH AVENUE SW, CEDAR RAPIDS, IA 52404
PHONE: 319-286-5802

No.	REVISION DESCRIPTION	APPROVED	DATE


 Date: 4/4/2016
 Drawn By: GP
 Approved By: GP
 CIP No: 304447

**COTTAGE GROVE LANE
STORM SEWER IMPROVEMENTS**

SITE PLAN

SHEET No.
D.01