

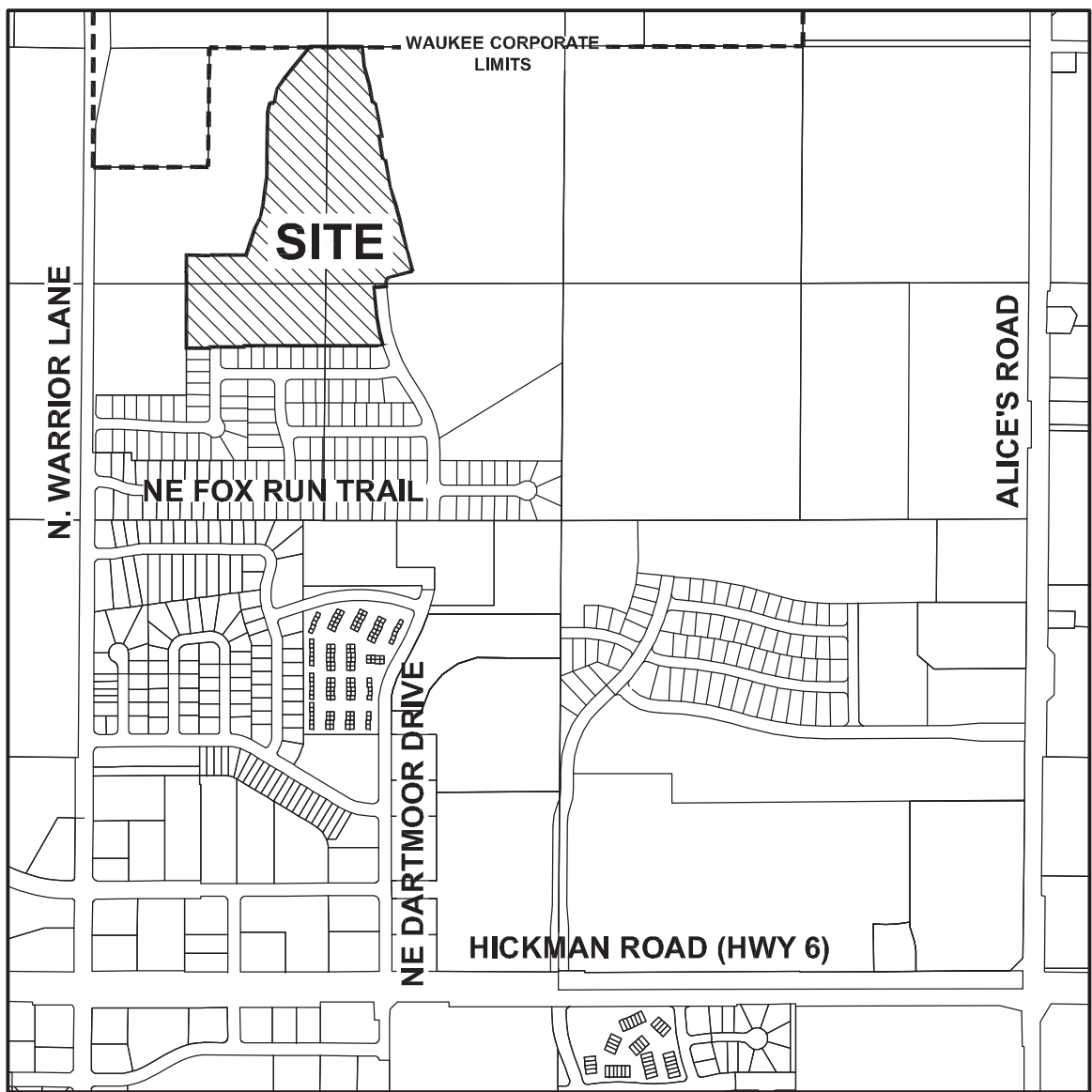
CONSTRUCTION PLANS FOR:

FOX CREEK ESTATES PLAT 6

WAUKEE, IOWA

VICINITY MAP

NOT TO SCALE



WAUKEE, IOWA

OWNER/DEVELOPER

PERFECT ACRES, L.C.
804 SUNSET DRIVE
INDIANOLA, IOWA 50215

ENGINEER/ SURVEYOR

CIVIL DESIGN ADVANTAGE
CONTACT: ERIN OLLENDIKE
3405 SE CROSSROADS DRIVE, SUITE G
GRIMES, IOWA 50111
PH. (515) 369-4400
FX. (515) 369-4410

ZONING

R-2 ONE AND TWO FAMILY RESIDENTIAL DISTRICT

BENCHMARKS

1. STORM SEWER MANHOLE RIM LOCATED AT THE N.E. CORNER OF WARRIOR LANE AND FOX RUN TRAIL INTERSECTION. MANHOLE IS LOCATED 4' FROM THE EAST BACK OF CURB LINE OF WARRIOR LANE AND 46' NORTH OF FOX RUN TRAIL CENTERLINE. ELEVATION = 1014.23
2. SANITARY SEWER MANHOLE RIM LOCATED ON THE WEST SIDE OF NE DARTMOOR DRIVE, 121' +/- NORTH OF THE CENTERLINE OF NE BOWMAN DRIVE. MANHOLE IS LOCATED 9' FROM THE WEST BACK OF CURB LINE OF NE DARTMOOR DRIVE. ELEVATION = 1020.12

NOTES

1. ANY CHANGES PROPOSED TO THE CONSTRUCTION DRAWINGS DURING CONSTRUCTION SHALL BE APPROVED IN WRITING BY THE CITY OF WAUKEE ENGINEERING DEPARTMENT.
2. THE CONTRACTOR IS RESPONSIBLE FOR ANY CHANGES MADE DURING CONSTRUCTION THAT HAVE NOT BEEN GRANTED APPROVAL IN WRITING BY THE CITY OF WAUKEE ENGINEERING DEPARTMENT.
3. THE RESULTS OF THE GEOTECHNICAL REPORT ARE TO BE PROVIDED TO THE CITY OF WAUKEE ENGINEERING DEPARTMENT. THE CONSTRUCTION DRAWINGS ARE SUBJECT TO ANY CHANGES REQUIRED BY THE REPORT.

UTILITY NOTE

THE UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY AND RECORDS OBTAINED BY THIS SURVEYOR. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOWN COMPRISE ALL THE UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UTILITIES SHOWN ARE IN THE EXACT LOCATION SHOWN. A REQUEST WAS MADE TO IOWA ONE CALL FOR THE UTILITIES TO LOCATE THEIR UTILITIES IN THE FIELD.

INDEX OF SHEETS

NO.	DESCRIPTION
1	TITLE SHEET
2-4	TYPICAL SECTIONS AND DETAILS
5	QUANTITIES AND REFERENCE NOTES
6	HYDRANT COVERAGE PLAN
7-8	GRADING PLAN
9-10	EROSION & SEDIMENT CONTROL PLAN
11-25	STORM AND SANITARY SEWER PLAN AND PROFILE
26-36	WATERMAIN PLAN AND PROFILE
37-41	INTERSECTION DETAILS
42	LANDSCAPE PLAN

AS-BUILT DRAWINGS

AS-BUILT PLANS ARE BASED ON SURVEYED INVERT ELEVATIONS AND INFORMATION SUPPLIED BY THE CONTRACTOR. CIVIL DESIGN ADVANTAGE TAKES NO RESPONSIBILITY FOR UNAUTHORIZED CHANGES TO THE PLANS WITHOUT CITY/OWNER KNOWLEDGE. FIELD VERIFICATION OF UTILITIES OR OTHER PLAN ELEMENTS IS ALWAYS RECOMMENDED.

LEGAL DESCRIPTION

A PART OF SECTION 27, TOWNSHIP 79 NORTH, RANGE 26 WEST, OF THE FIFTH PRINCIPAL MERIDIAN AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHWEST CORNER OF LOT 13, FOX CREEK ESTATES PLAT 5, AN OFFICIAL PLAT IN THE CITY OF WAUKEE; THENCE NORTH 0°38'07" WEST, 412.95 FEET; THENCE NORTH 89°21'53" EAST, 2.23 FEET; THENCE NORTH 0°38'07" WEST, 103.20 FEET; THENCE SOUTH 89°20'53" EAST, 130.00 FEET; THENCE NORTHERLY ALONG A CURVE CONCAVE EASTERLY, WHOSE RADIUS IS 530.00 FEET, WHOSE ARC LENGTH IS 2.02 FEET AND WHOSE CHORD BEARS N 0°12'22" EAST, 2.02 FEET; THENCE NORTH 89°33'12" EAST, 200.27 FEET; THENCE NORTH 17°32'11" EAST, 146.61 FEET; THENCE NORTH 24°01'52" EAST, 84.31 FEET; THENCE NORTH 10°16'27" EAST, 78.25 FEET; THENCE NORTH 7°01'33" EAST, 155.17 FEET; THENCE NORTH 0°28'48" EAST, 77.22 FEET; THENCE NORTH 0°00'55" EAST, 265.53 FEET; THENCE NORTH 12°01'57" EAST, 60.00 FEET; THENCE EASTERLY ALONG A CURVE CONCAVE NORTHERLY, WHOSE RADIUS IS 570.00 FEET, WHOSE ARC LENGTH IS 25.55 FEET, AND WHOSE CHORD BEARS SOUTH 79°15'25" EAST, 25.66 FEET; THENCE NORTH 9°27'12" EAST, 79.68 FEET; THENCE NORTH 33°31'07" EAST, 63.58 FEET; THENCE NORTH 38°18'05" EAST, 234.89 FEET; THENCE NORTH 89°32'02" EAST, 291.35 FEET; THENCE SOUTH 6°12'43" EAST, 109.59 FEET; THENCE SOUTH 16°37'58" EAST, 100.69 FEET; THENCE SOUTH 10°52'21" EAST, 108.76 FEET; THENCE EASTERLY ALONG A CURVE CONCAVE NORTHERLY, WHOSE RADIUS IS 770.00 FEET WHOSE ARC LENGTH IS 15.10 FEET, AND WHOSE CHORD BEARS NORTH 78°33'56" EAST, 15.10 FEET; THENCE SOUTH 11°59'47" EAST, 190.00 FEET; THENCE SOUTH 81°35'59" WEST, 18.86 FEET; THENCE SOUTH 10°52'19" EAST, 131.00 FEET; THENCE EASTERLY ALONG A CURVE CONCAVE NORTHERLY, WHOSE RADIUS IS 1090.00 FEET, WHOSE ARC LENGTH IS 11.41 FEET, AND WHOSE CHORD BEARS NORTH 78°49'41" EAST, 11.41 FEET; THENCE SOUTH 11°12'51" EAST, 158.47 FEET; THENCE SOUTH 16°43'56" EAST, 85.00 FEET; THENCE SOUTH 16°37'33" EAST, 86.67 FEET; THENCE SOUTH 13°28'48" EAST, 93.019 FEET; THENCE SOUTH 15°04'55" EAST, 218.65 FEET; THENCE WESTERLY ALONG A CURVE CONCAVE NORTHERLY, WHOSE RADIUS IS 4060.00 FEET, WHOSE ARC LENGTH IS 128.39 FEET, AND WHOSE CHORD BEARS SOUTH 75°49'26" WEST, 128.38 FEET; THENCE SOUTHWESTERLY ALONG A CURVE CONCAVE SOUTHEASTERLY, WHOSE RADIUS IS 30.00 FEET WHOSE ARC LENGTH IS 43.59 FEET, AND WHOSE CHORD BEARS SOUTH 35°06'14" WEST, 39.86 FEET; THENCE SOUTH 6°31'18" EAST, 19.31 FEET; THENCE SOUTH 83°28'49" WEST, 70.02 FEET; THENCE SOUTH 6°31'47" EAST, 164.32 FEET; THENCE SOUTHERLY ALONG A CURVE CONCAVE EASTERLY, WHOSE RADIUS IS 835.00 FEET, WHOSE ARC LENGTH IS 162.02 FEET, AND WHOSE CHORD BEARS SOUTH 12°04'49" EAST, 161.76 FEET; THENCE SOUTH 89°31'25" WEST, 771.13 FEET; THENCE SOUTH 0°28'35" EAST, 7.16 FEET; THENCE SOUTH 89°33'12" WEST, 189.47 FEET; THENCE SOUTH 0°26'48" EAST, 6.56 FEET; THENCE SOUTH 89°33'12" WEST, 130.49 FEET TO THE POINT OF BEGINNING AN CONTAINING 29.69 ACRES (1,293,207 SQUARE FEET).

PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS OF RECORD.



3405 SE CROSSROADS DR. SUITE G GRIMES, IOWA 50111
PH: (515) 369-4400 Fax: (515) 369-4410
PROJECT NO. 1401.026

GENERAL LEGEND

PROPOSED	EXISTING
SECTION LINE	SANITARY MANHOLE
CENTER LINE	WATER VALVE BOX
RIGHT OF WAY	FIRE HYDRANT
PERMANENT EASEMENT	WATER CURB STOP
TEMPORARY EASEMENT	WELL
TYPE SW-501 STORM INTAKE	STORM SEWER MANHOLE
TYPE SW-503 STORM INTAKE	STORM SEWER SINGLE INTAKE
TYPE SW-505 STORM INTAKE	STORM SEWER DOUBLE INTAKE
TYPE SW-506 STORM INTAKE	FLARED END SECTION
TYPE SW-513 STORM INTAKE	DECIDUOUS TREE
TYPE SW-401 STORM MANHOLE	CONIFEROUS TREE
TYPE SW-402 STORM MANHOLE	DECIDUOUS SHRUB
TYPE SW-301 SANITARY MANHOLE	CONIFEROUS SHRUB
STORM/SANITARY CLEANOUT	ELECTRIC POWER POLE
WATER VALVE	GUY ANCHOR
FIRE HYDRANT ASSEMBLY	STREET LIGHT
SIGN	POWER POLE W/ TRANSFORMER
DETECTABLE WARNING PANEL	UTILITY POLE W/ LIGHT
WATER CURB STOP	ELECTRIC BOX
STORM SEWER STRUCTURE NO.	ELECTRIC TRANSFORMER
STORM SEWER PIPE NO.	ELECTRIC MANHOLE OR VAULT
SANITARY SEWER STRUCTURE NO.	TRAFFIC SIGN
SANITARY SEWER PIPE NO.	TELEPHONE JUNCTION BOX
SANITARY SEWER WITH SIZE	TELEPHONE MANHOLE/VAULT
SANITARY SERVICE	TELEPHONE POLE
STORM SEWER	GAS VALVE BOX
STORM SERVICE	CABLE TV JUNCTION BOX
WATERMAIN WITH SIZE	CABLE TV MANHOLE/VAULT
WATER SERVICE	MAIL BOX
SAWCUT (FULL DEPTH)	BENCHMARK
SILT FENCE	SOIL BORING
USE AS CONSTRUCTED	UNDERGROUND TV CABLE
MINIMUM PROTECTION ELEVATION	GAS MAIN
TOP OF PROPOSED GROUND	FIBER OPTIC
	UNDERGROUND TELEPHONE
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC
	FIELD TILE
	SANITARY SEWER W/ SIZE
	STORM SEWER W/ SIZE
	WATER MAIN W/ SIZE

THIS PROJECT REQUIRES AN IOWA NPDES PERMIT #2. CIVIL DESIGN ADVANTAGE WILL PROVIDE THE PERMITS AND THE INITIAL STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FOR THE CONTRACTORS USE DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR UPDATING THE SWPPP THROUGHOUT CONSTRUCTION AND MEETING LOCAL, STATE AND FEDERAL REQUIREMENTS.

THIS DESIGN SPECIFICALLY PREPARED FOR USE AT THE LOCATION SHOWN. USE IN ANY OTHER MANNER EXCEEDS THE INTENDED PURPOSE OF THESE DRAWINGS AND ANY ACCOMPANYING SPECIFICATIONS.

THE 2014 EDITION OF SUDAS STANDARD SPECIFICATIONS AND THE MOST RECENT EDITION OF THE CITY OF WAUKEE STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS SHALL APPLY TO ALL WORK PERFORMED ON THIS PROJECT EXCEPT AS MODIFIED HEREIN.

SUBMITTAL DATES

FIRST SUBMITTAL:	04/09/2014
SECOND SUBMITTAL:	04/22/2014
THIRD SUBMITTAL:	05/22/2014
FOURTH SUBMITTAL:	06/09/2014
FIFTH SUBMITTAL:	06/27/2014
SIXTH SUBMITTAL:	08/04/2014
FINAL SUBMITTAL:	09/02/2014
FIRST AS-BUILT SUBMITTAL:	09/29/2015
SECOND AS-BUILT SUBMITTAL:	12/07/2015



1-800-292-8989
www.iowaonecall.com



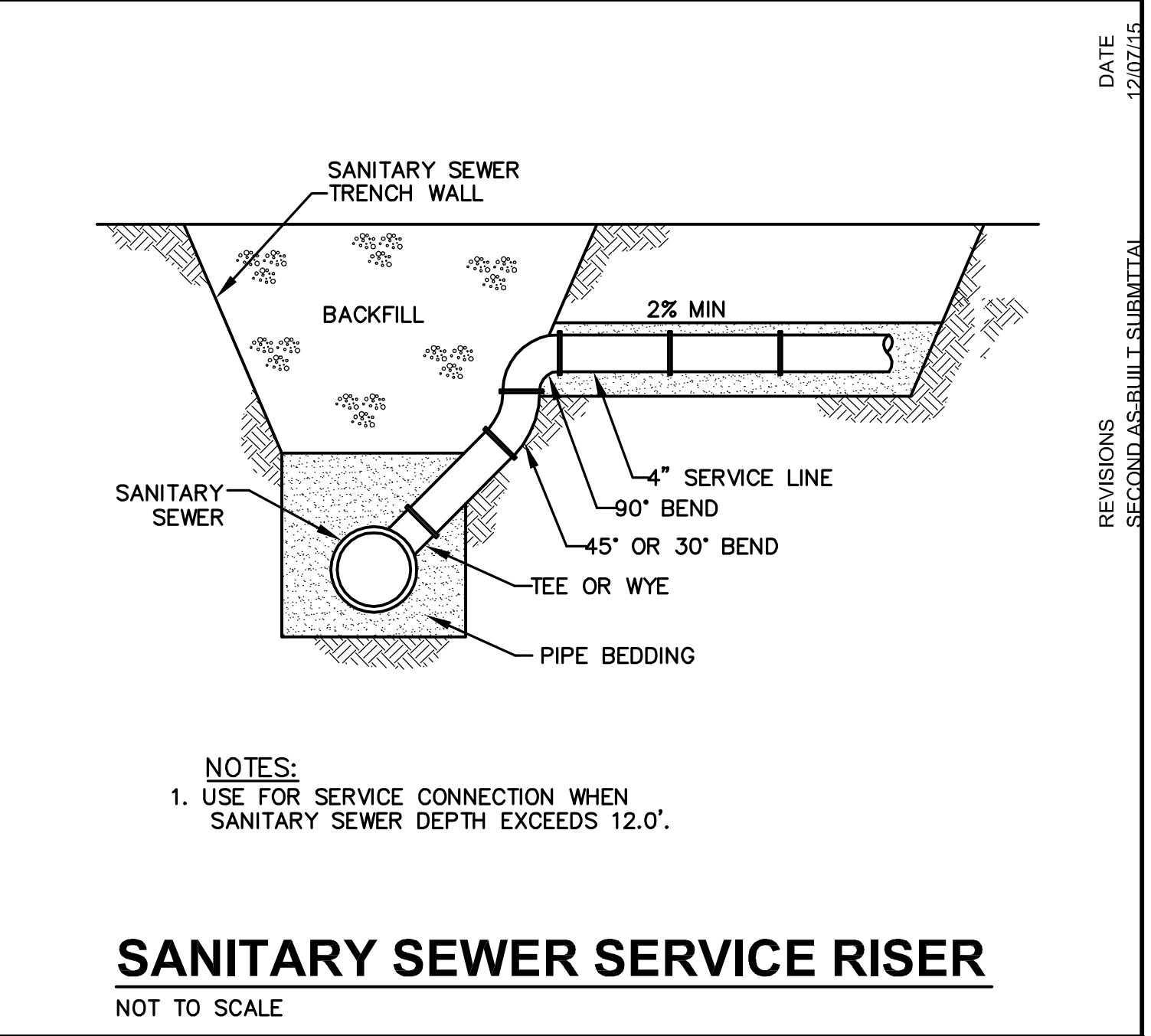
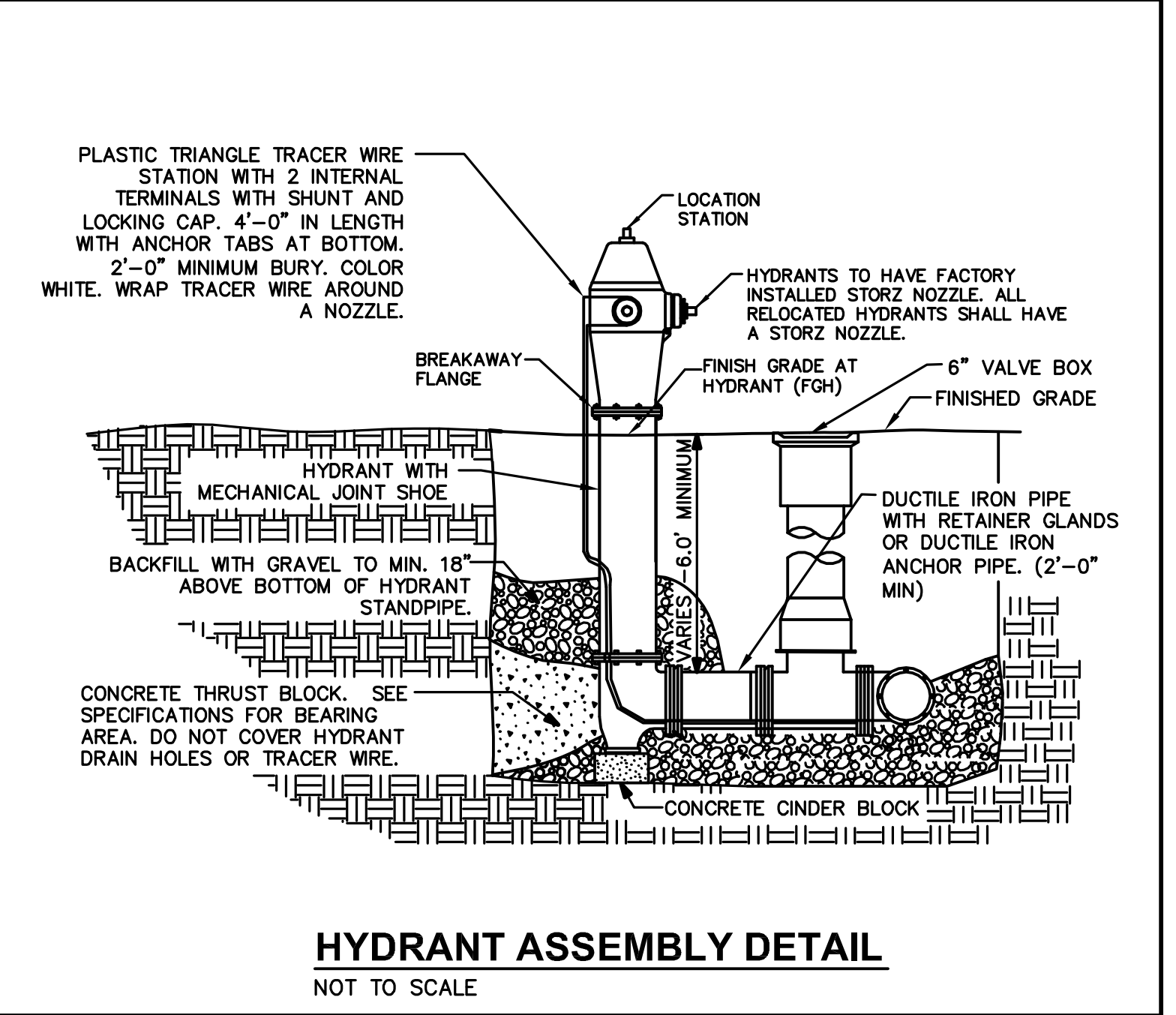
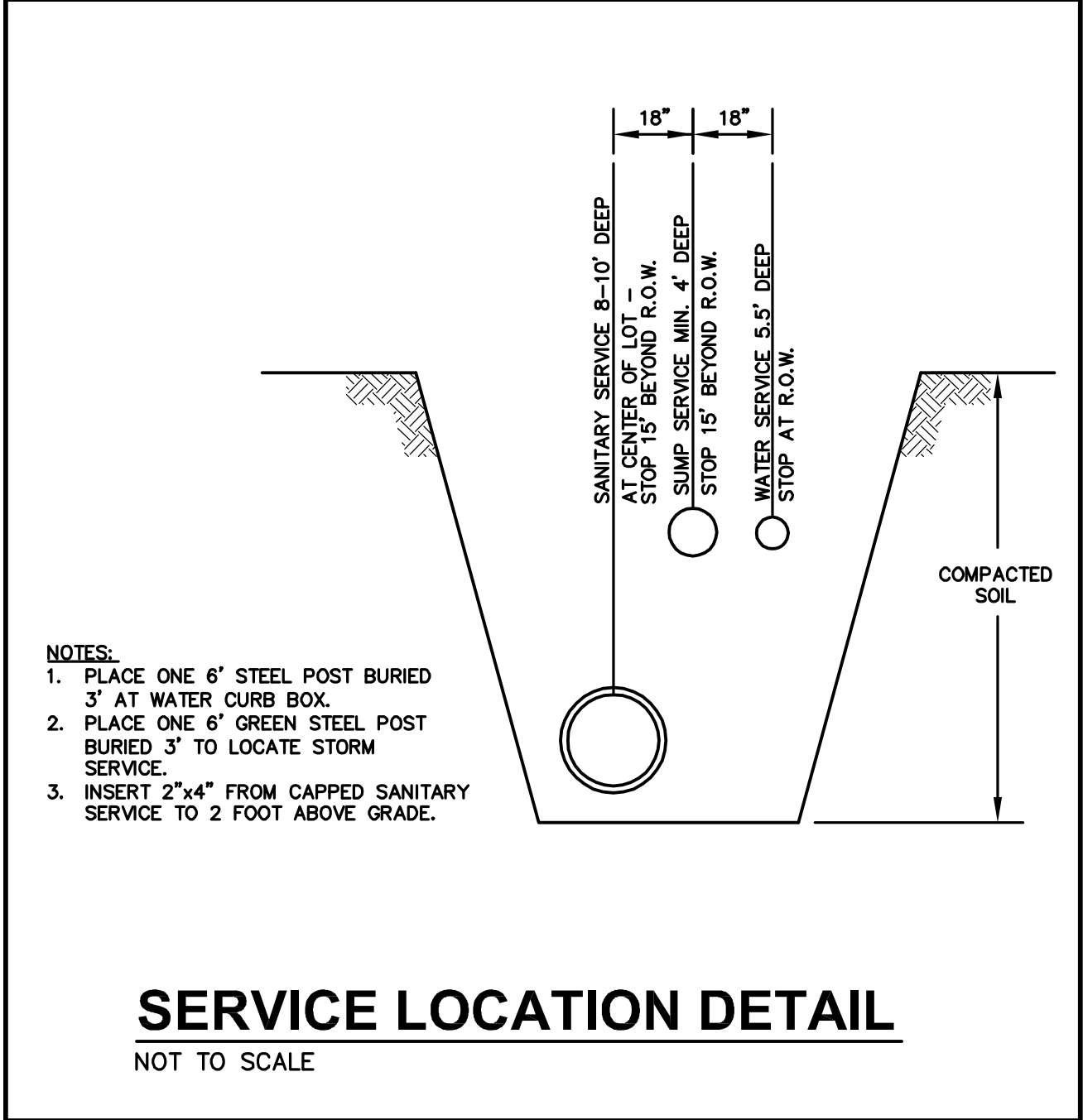
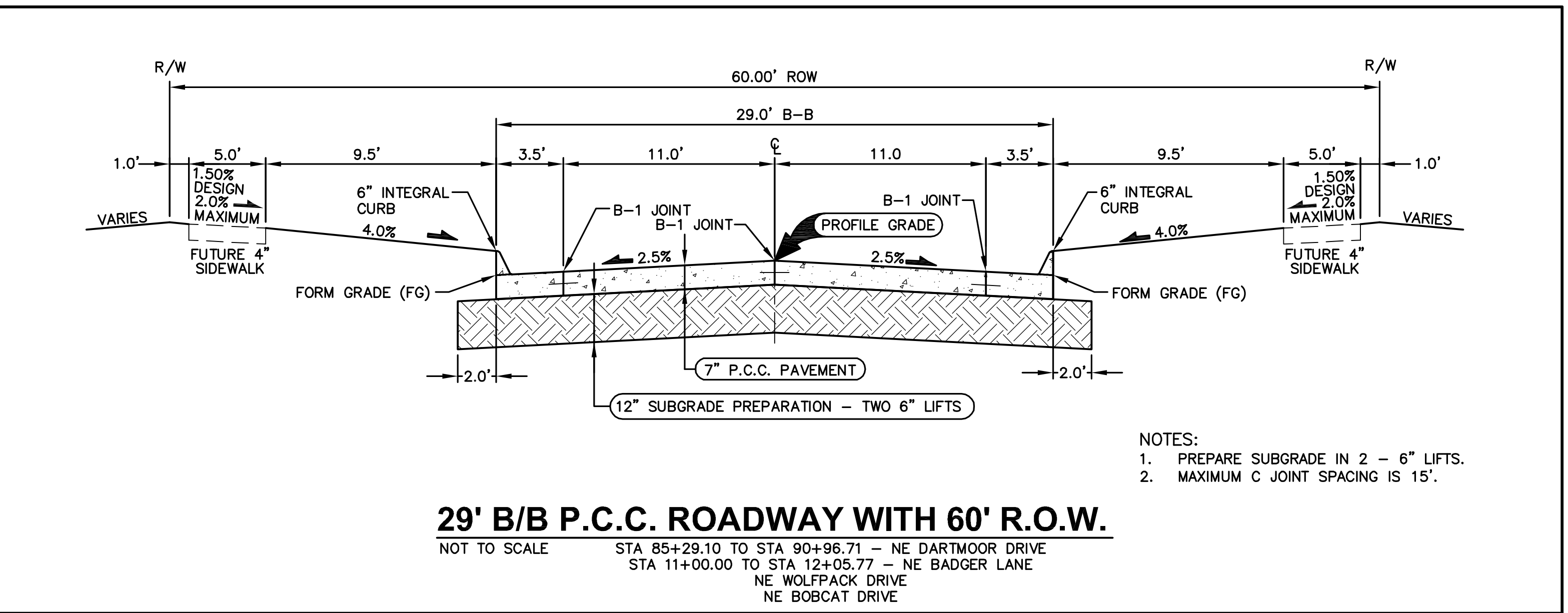
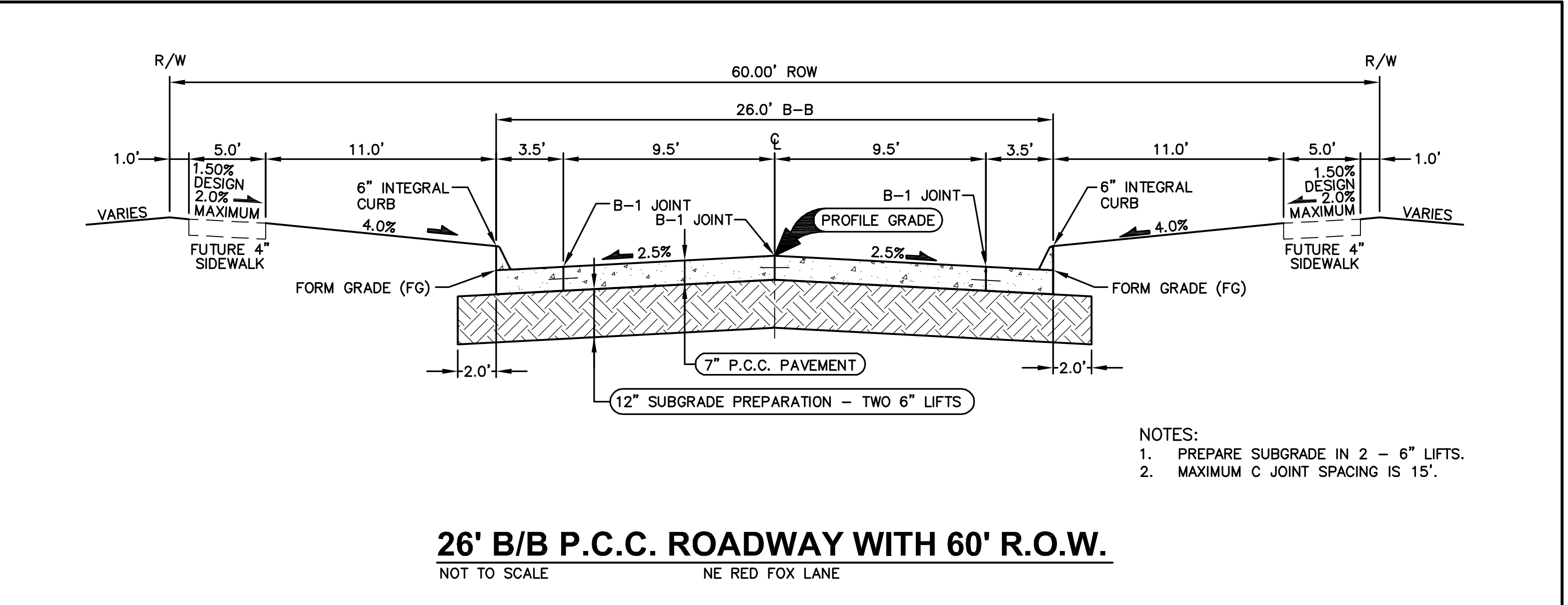
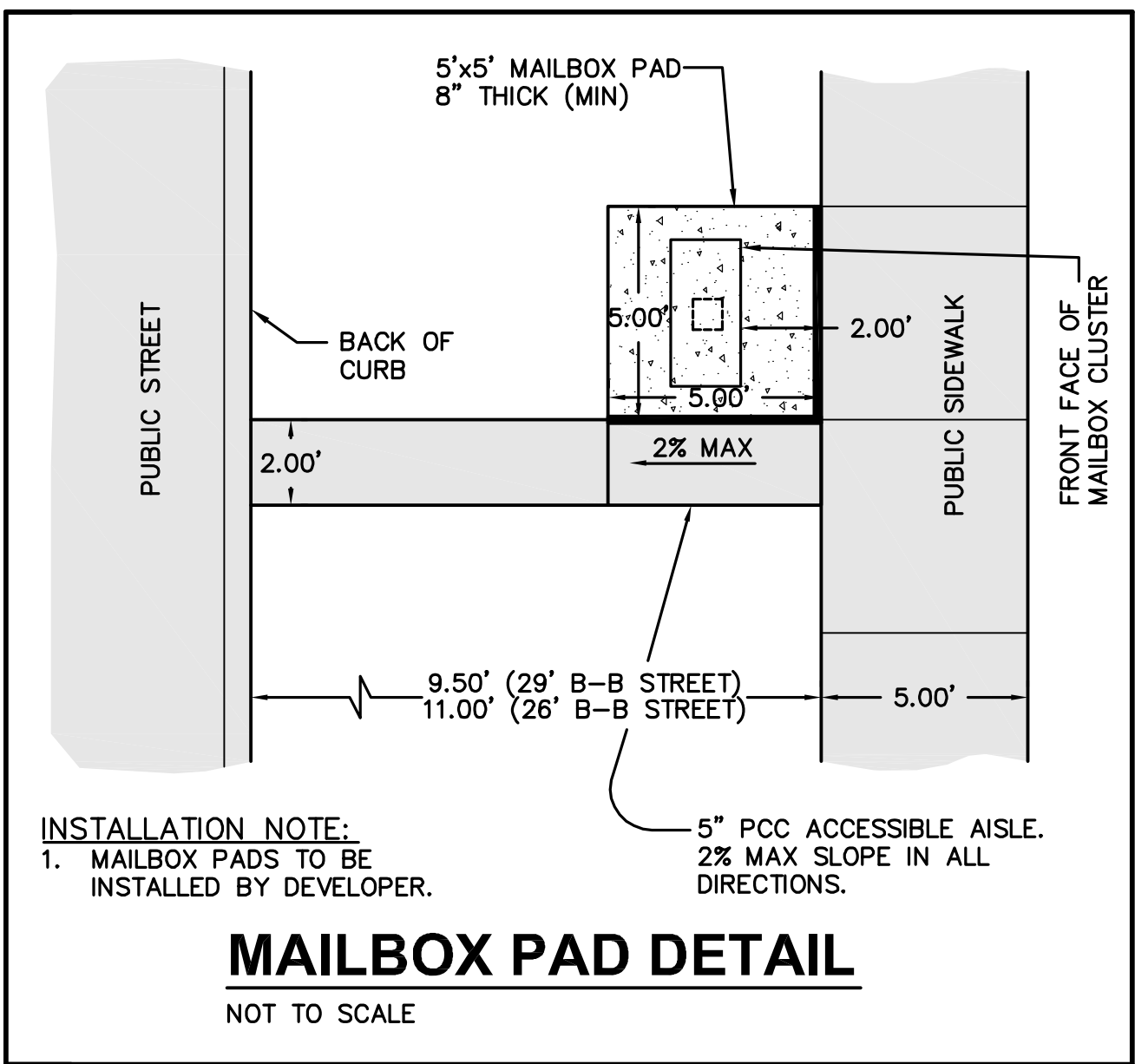
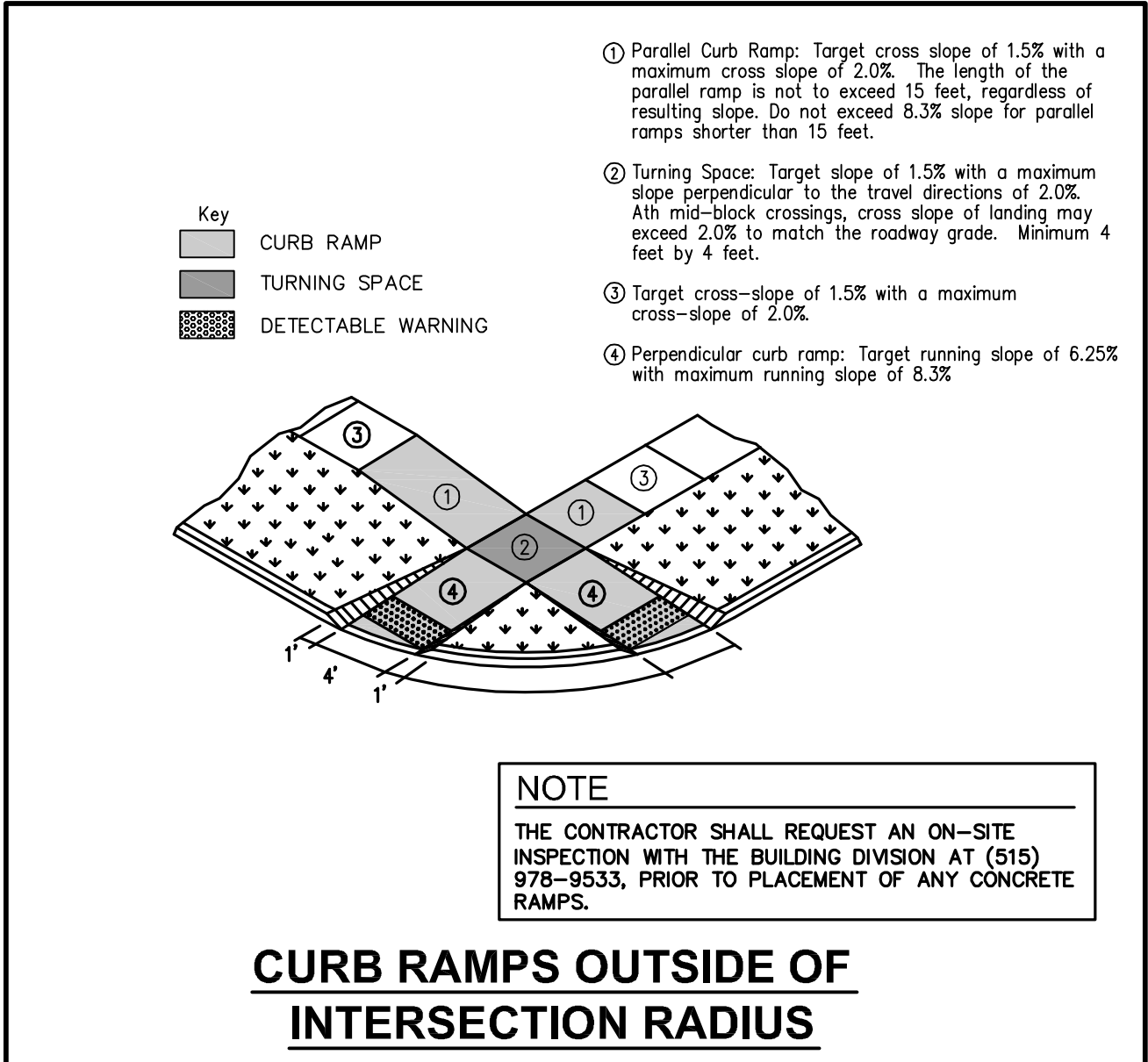
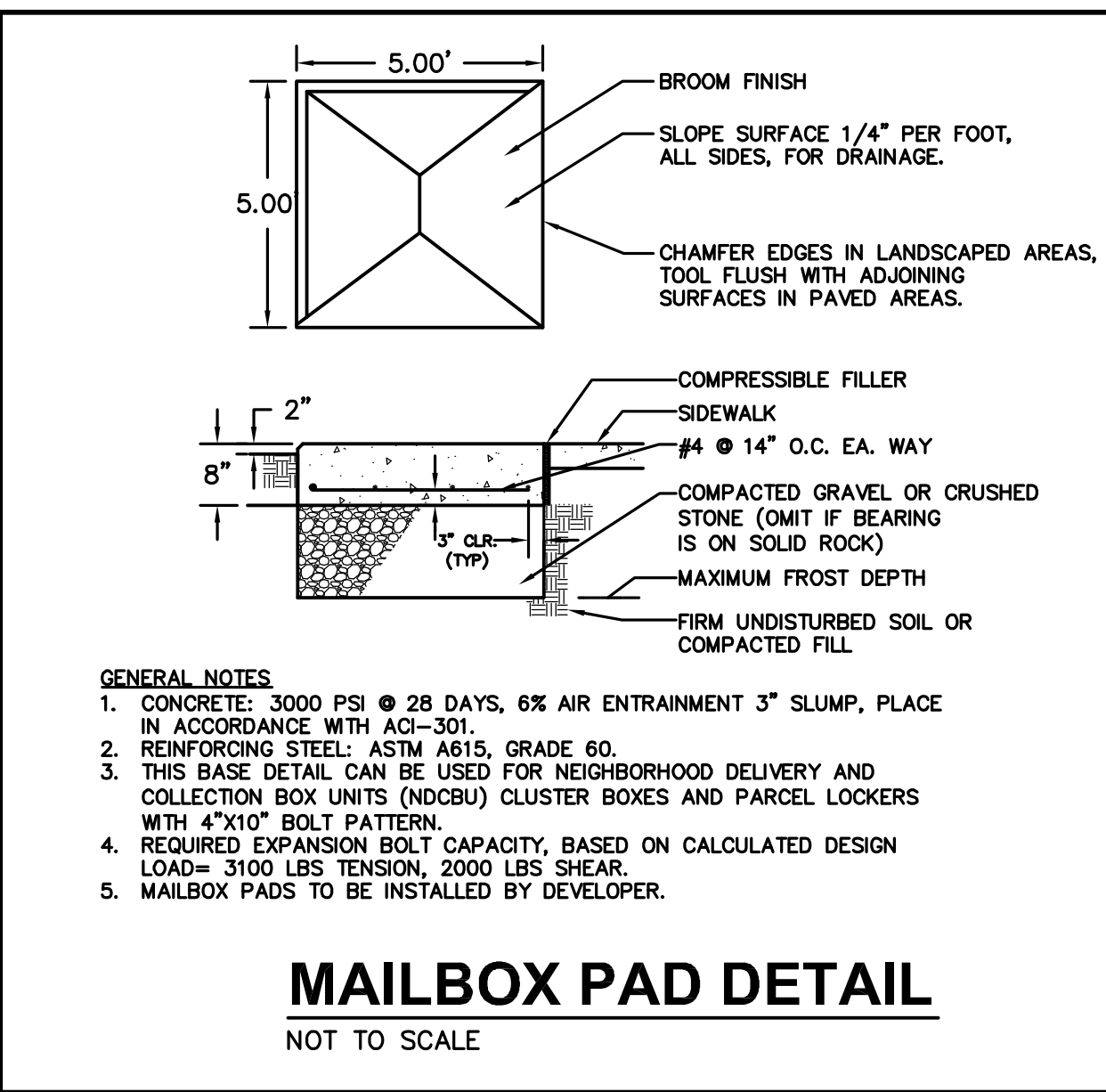
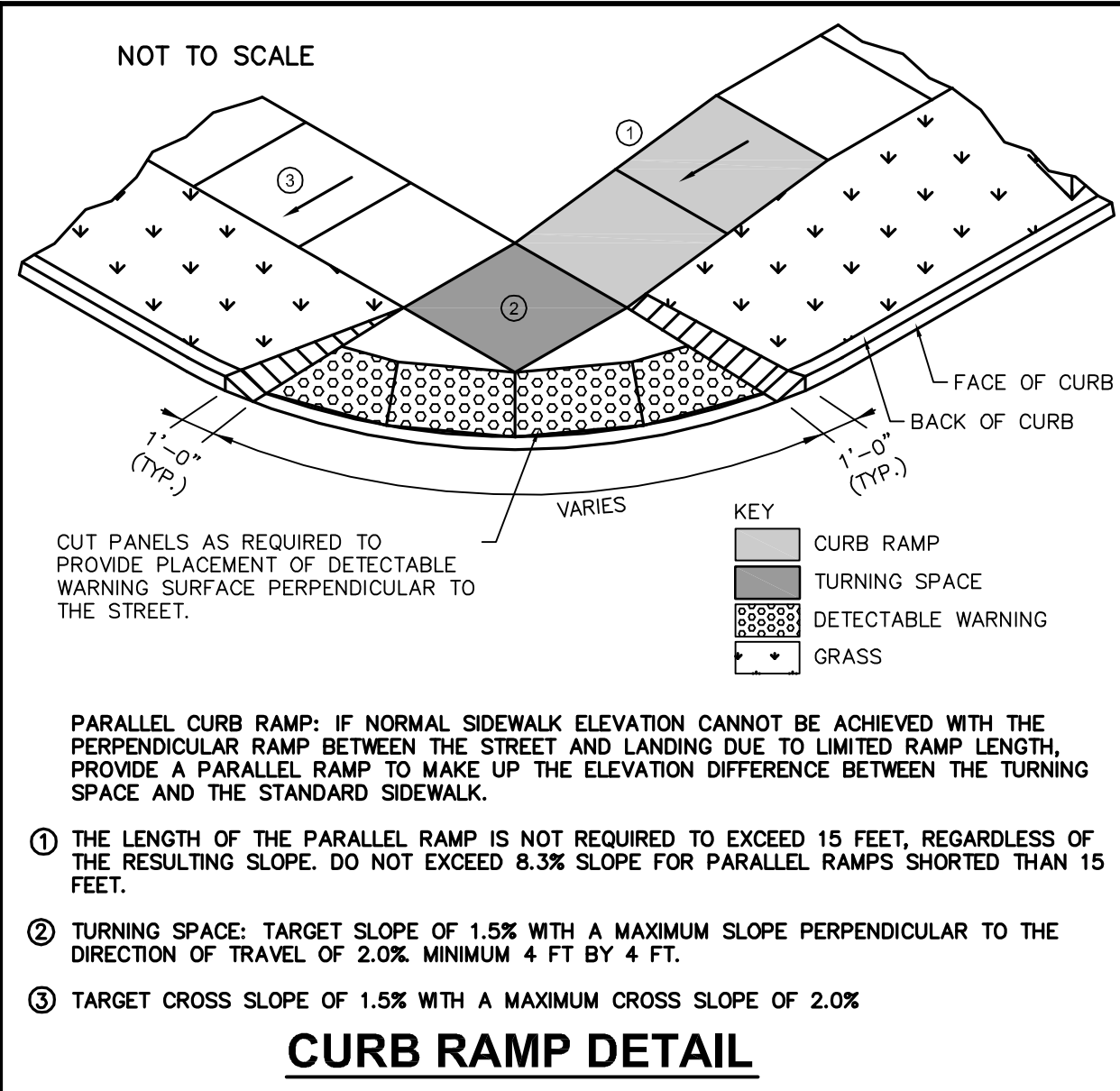
I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

Erin K. Ollendike 12-07-15
ERIN K. OLLENDIKE, P.E. DATE

MY LICENSE RENEWAL DATE IS DECEMBER 31, 2015
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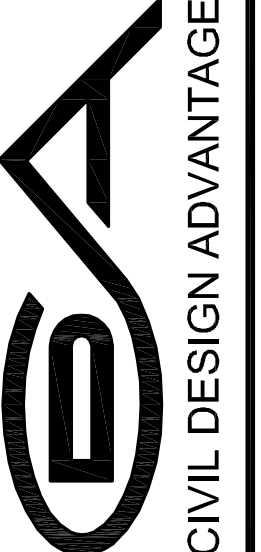
SHEETS 1-41

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PLOT BY: JARED MURRAY



REVISIONS	DATE	BY	APP'D
SECOND AS-BUILT SUBMITTAL	12/07/15		
FIRST AS-BUILT SUBMITTAL	09/29/15		
FINAL SUBMITTAL	09/02/14		
SIXTH SUBMITTAL	08/04/14		
FIFTH SUBMITTAL	06/27/14		
FOURTH SUBMITTAL	06/09/14		
THIRD SUBMITTAL	05/22/14		
SECOND SUBMITTAL	04/22/14		
FIRST SUBMITTAL	04/09/14		

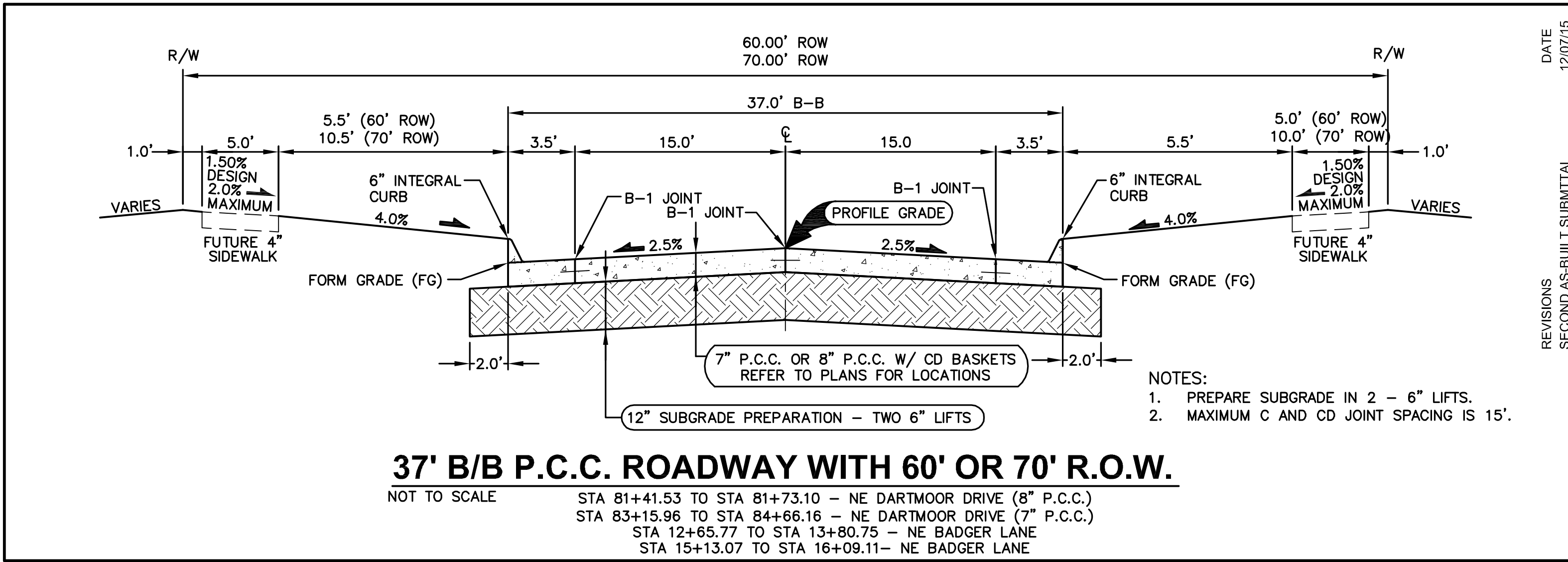
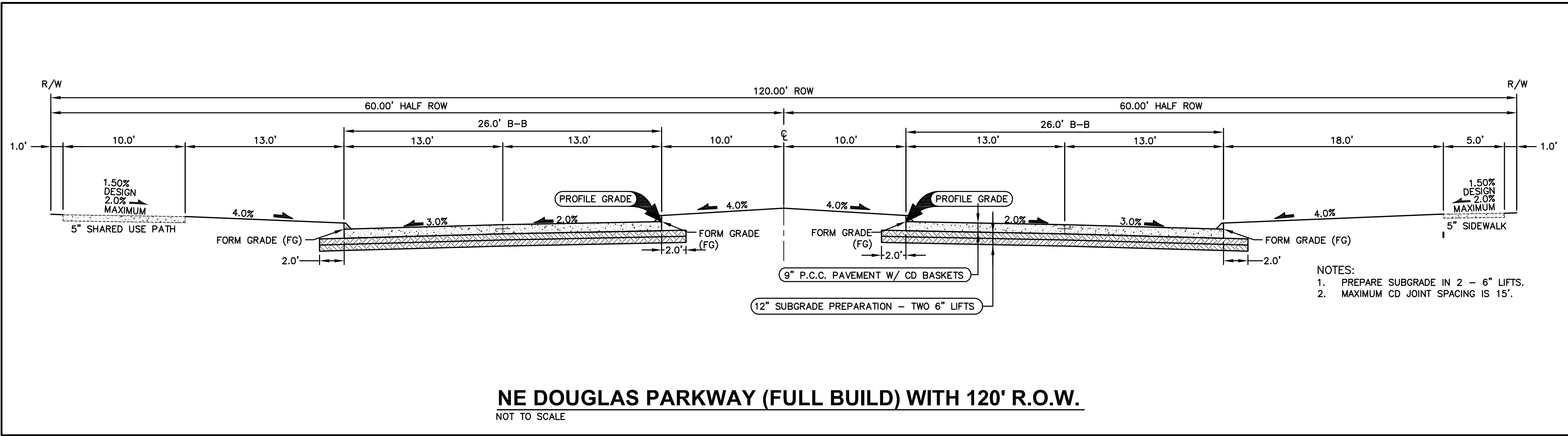
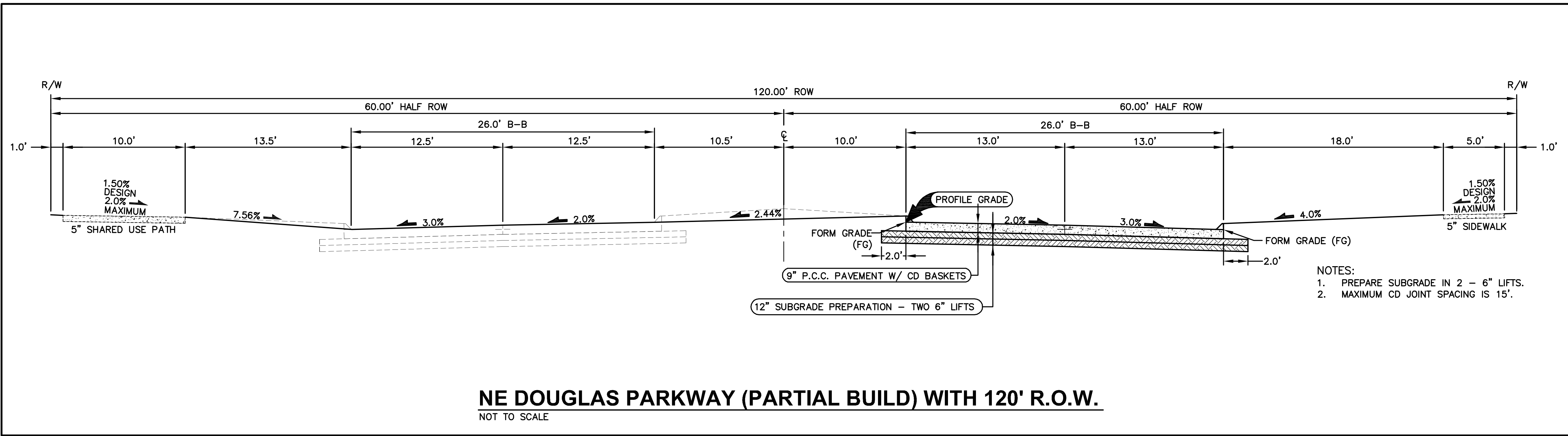
3405 S.E. CROSSROADS DRIVE, SUITE G
GRIMES, IOWA 50111
PHONE: (515) 369-4400 FAX: (515) 369-4410
ENGINEER: EKO
EI: JMM



CIVIL DESIGN ADVANTAGE
WAUKEE, IOWA

FOX CREEK ESTATES PLAT 6
TYPICAL SECTIONS AND DETAILS

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DATE: 12/4/2015 2:16 PM
PLOTTER: JARED MURRAY
DESIGNER: EKO



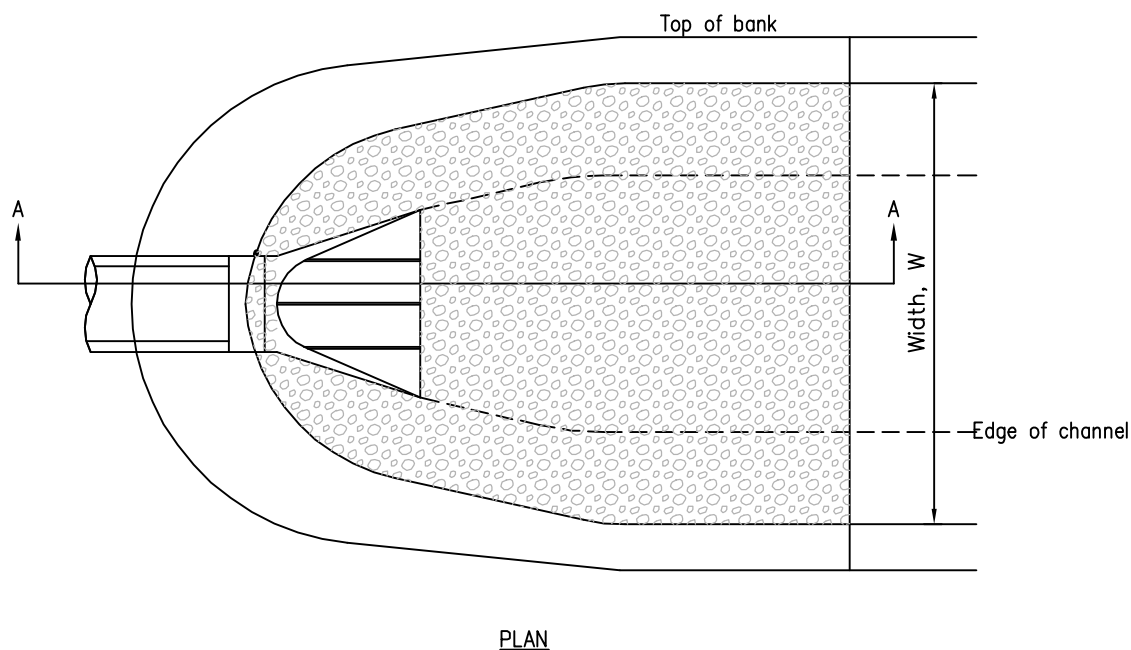
REVISIONS	DATE
FIRST AS-BUILT SUBMITTAL	09/29/15
SECOND AS-BUILT SUBMITTAL	12/07/15
THIRD SUBMITTAL	04/22/14
FOURTH SUBMITTAL	05/22/14
FIFTH SUBMITTAL	06/09/14
SIXTH SUBMITTAL	06/27/14
FINAL SUBMITTAL	09/02/14

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EI: JMM



WAUKEE, IOWA

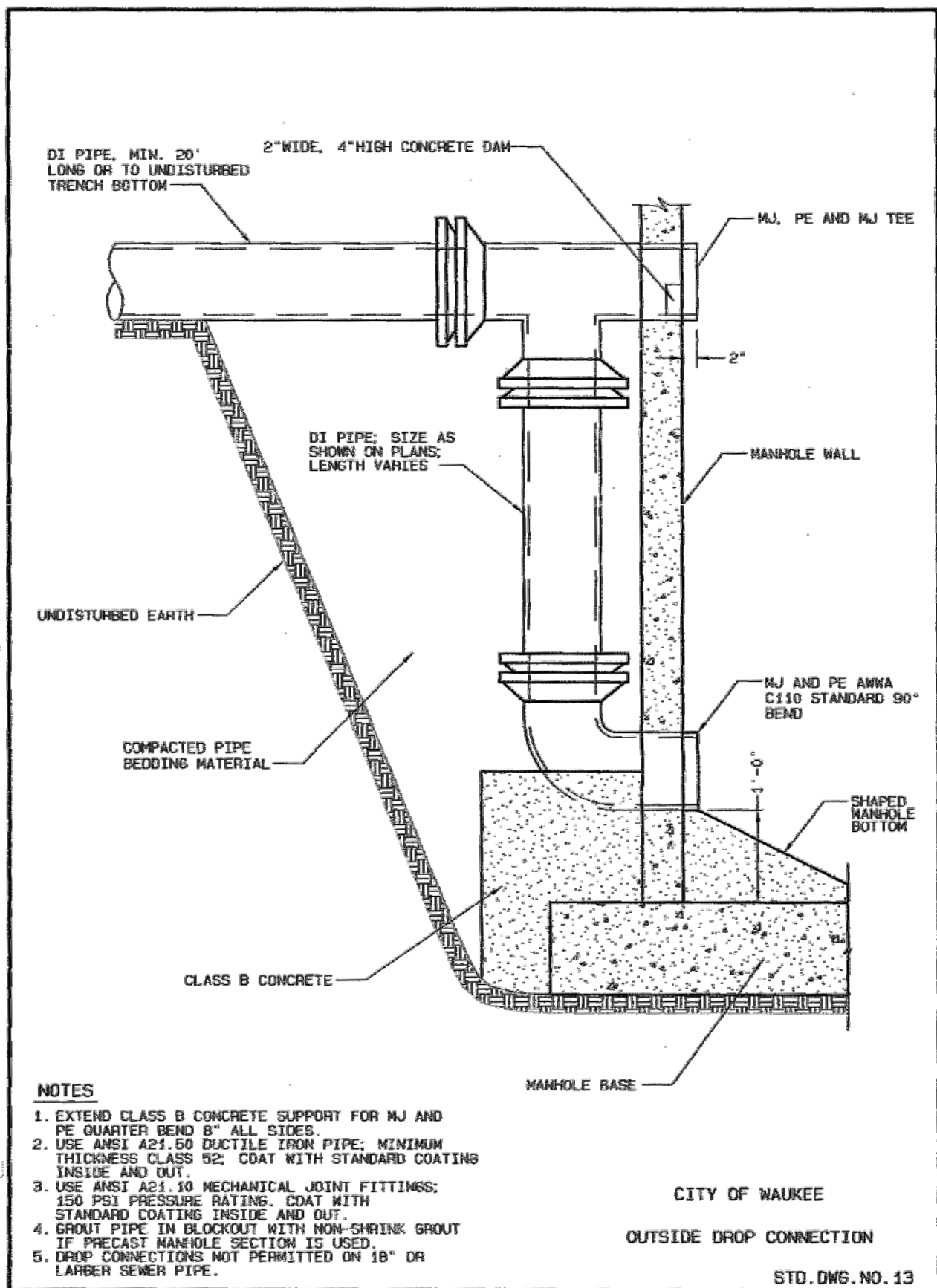
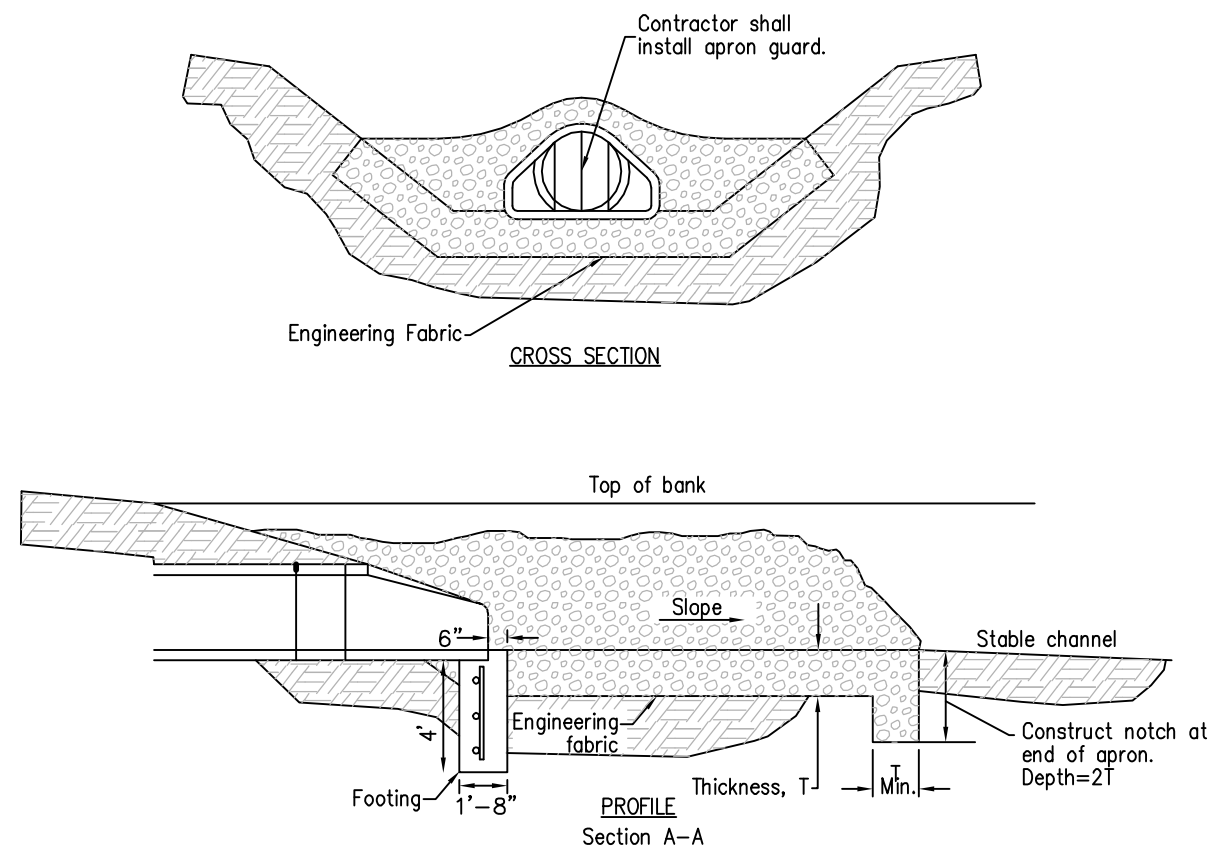
FOX CREEK ESTATES PLAT 6
TYPICAL SECTIONS AND DETAILS



NOTE:
THE LAST THREE SECTIONS AND THE APRON SHALL
BE CONNECTED WITH PIPE CONNECTIONS PER
SECTION 4030.302C OF SUDAS.

ROCK APRON FOR PIPE OUTLET

NOT TO SCALE

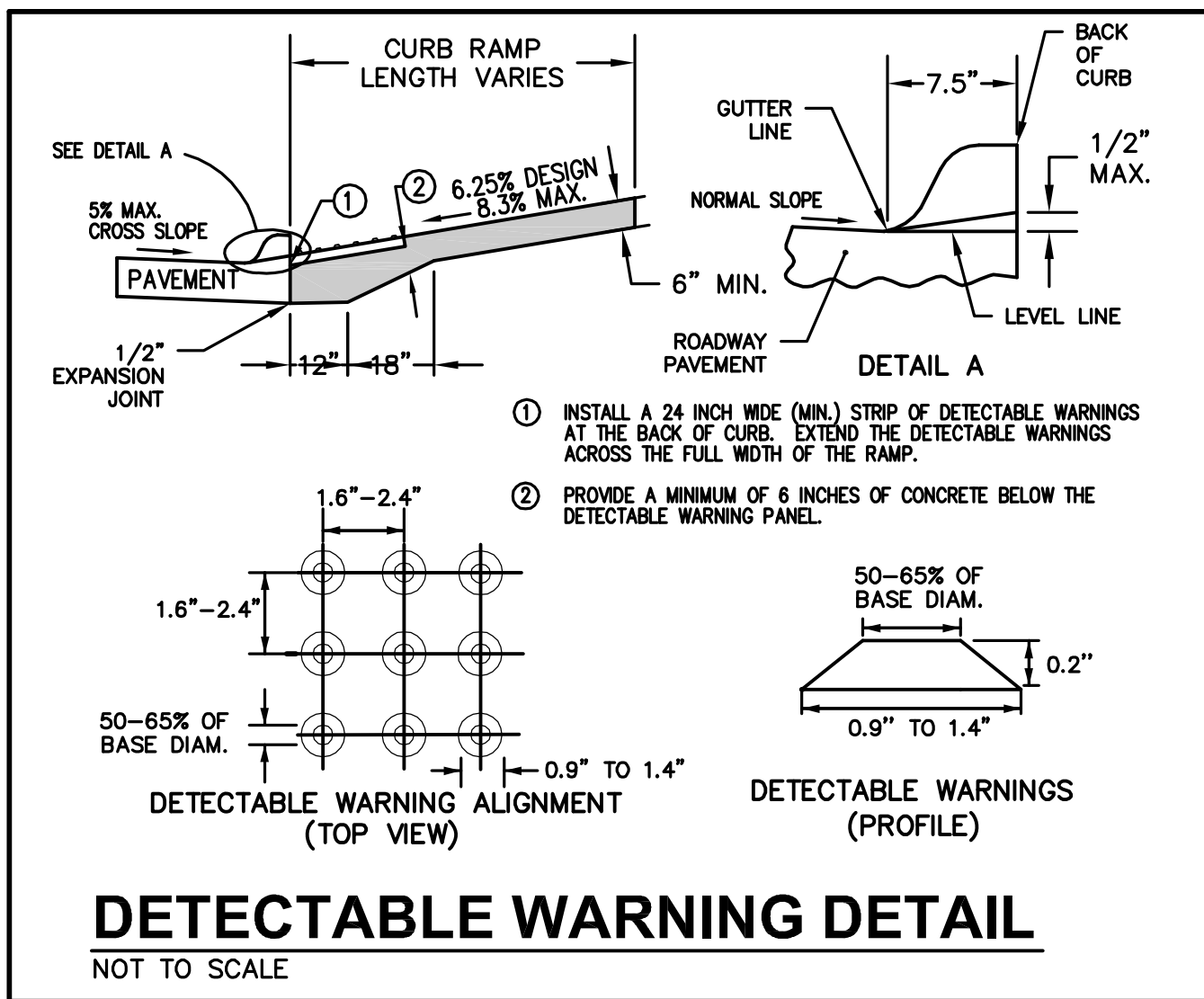


SANITARY SEWER DROP CONNECTION

NOT TO SCALE

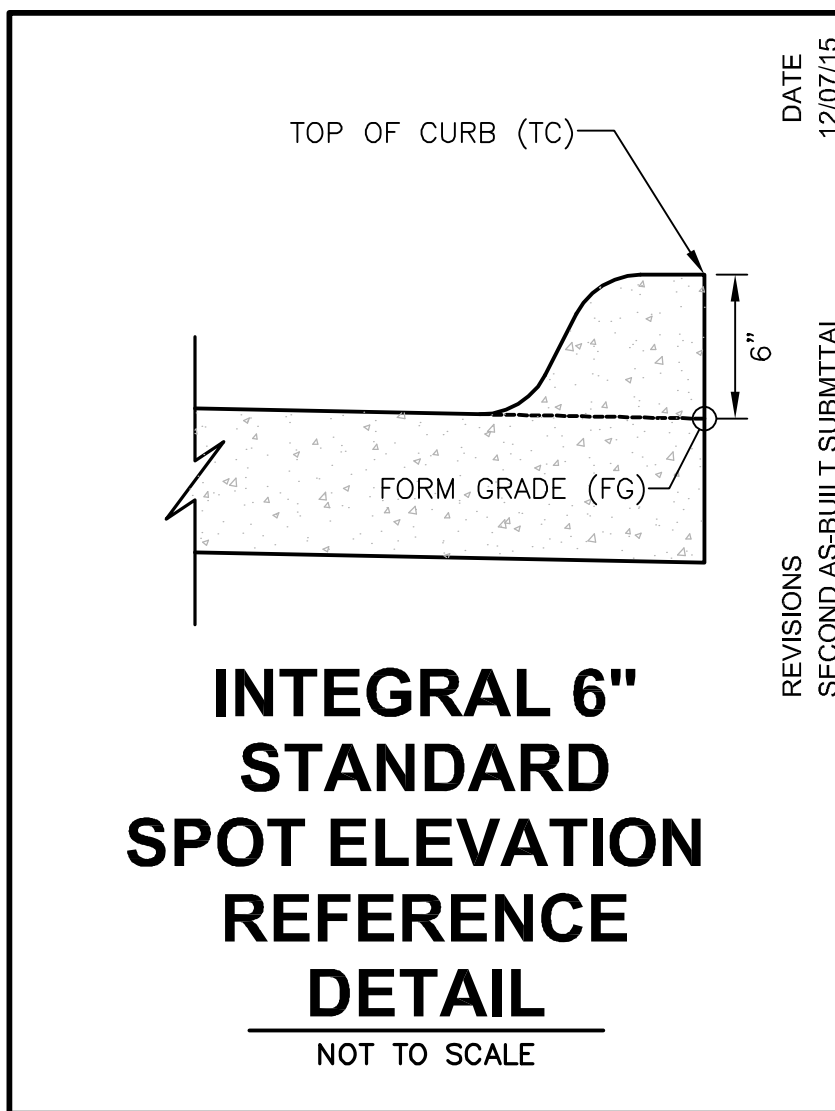
- NOTES
1. EXTEND CLASS B CONCRETE SUPPORT FOR MJ AND PE JUNCTION BEND 8" ALL SIDES.
 2. USE ANSI A21.50 DUCTILE IRON PIPE. MINIMUM THICKNESS CLASS 90. COAT WITH STANDARD COATING INSIDE AND OUT.
 3. USE ANSI A21.10 MECHANICAL JOINT FITTINGS. 150 PSI PRESSURE RATING. COAT WITH STANDARD COATING INSIDE AND OUT.
 4. GROUT PIPE IN BLOCKOUT WITH NON-SHRIEK GROUT IF PRECAST MANHOLE SECTION IS USED.
 5. DROP CONNECTIONS NOT PERMITTED ON 18" OR LARGER SEWER PIPE.

CITY OF NAUKEE
OUTSIDE DROP CONNECTION
STD. DWG. NO. 13



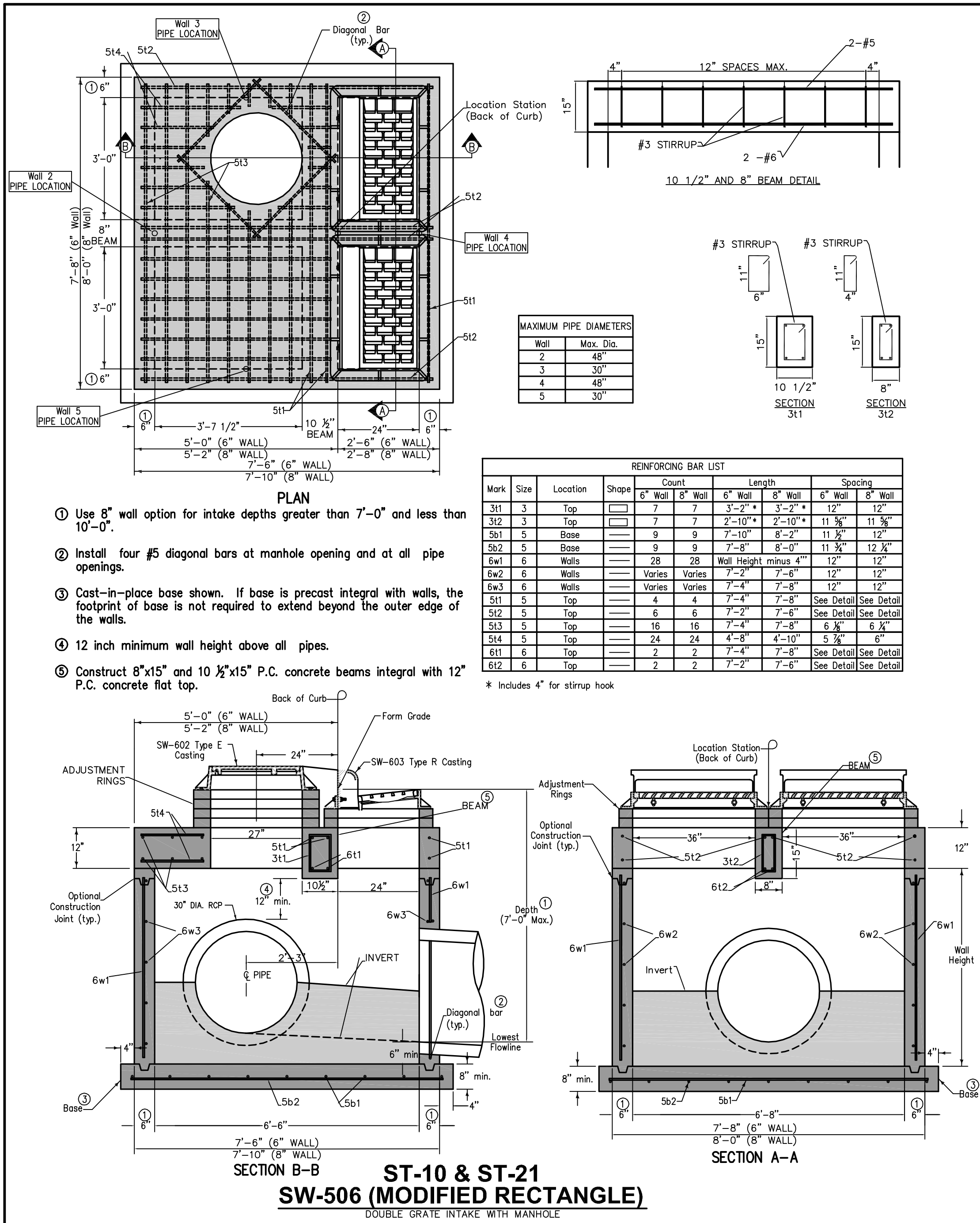
DETECTABLE WARNING DETAIL

NOT TO SCALE



INTEGRAL 6" STANDARD SPOT ELEVATION REFERENCE DETAIL

NOT TO SCALE



ST-10 & ST-21 SW-506 (MODIFIED RECTANGLE)

DOUBLE GRATE INTAKE WITH MANHOLE

REVISIONS	DATE	BY	APP'D
FINAL SUBMITTAL	09/02/14		
SIXTH SUBMITTAL	09/04/14		
FIFTH SUBMITTAL	06/27/14		
FOURTH SUBMITTAL	06/09/14		
THIRD SUBMITTAL	05/22/14		
SECOND SUBMITTAL	04/22/14		
FIRST SUBMITTAL	04/09/14		

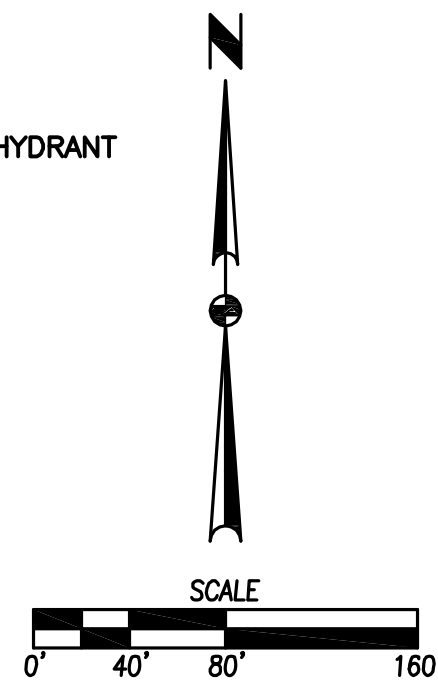
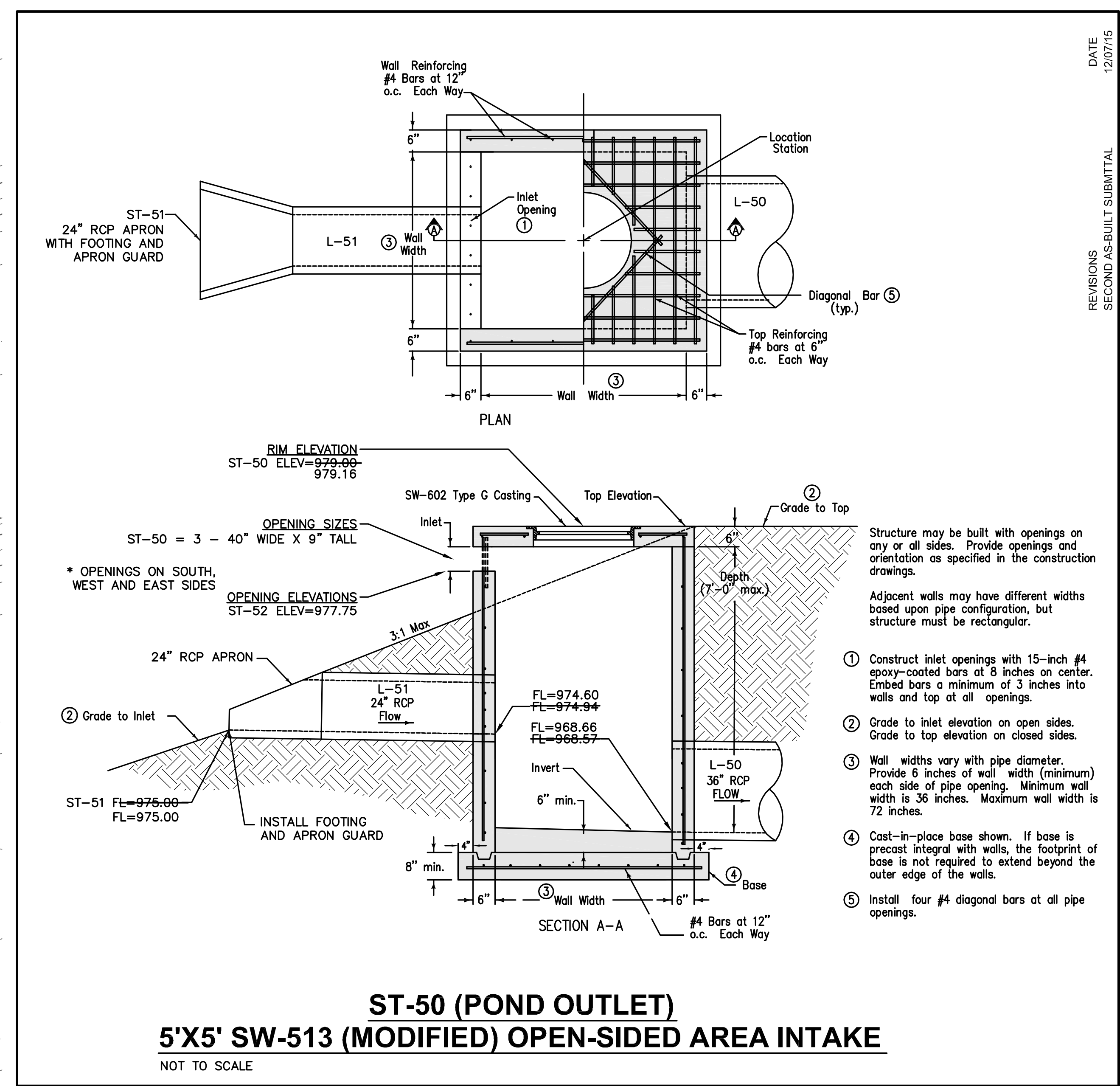
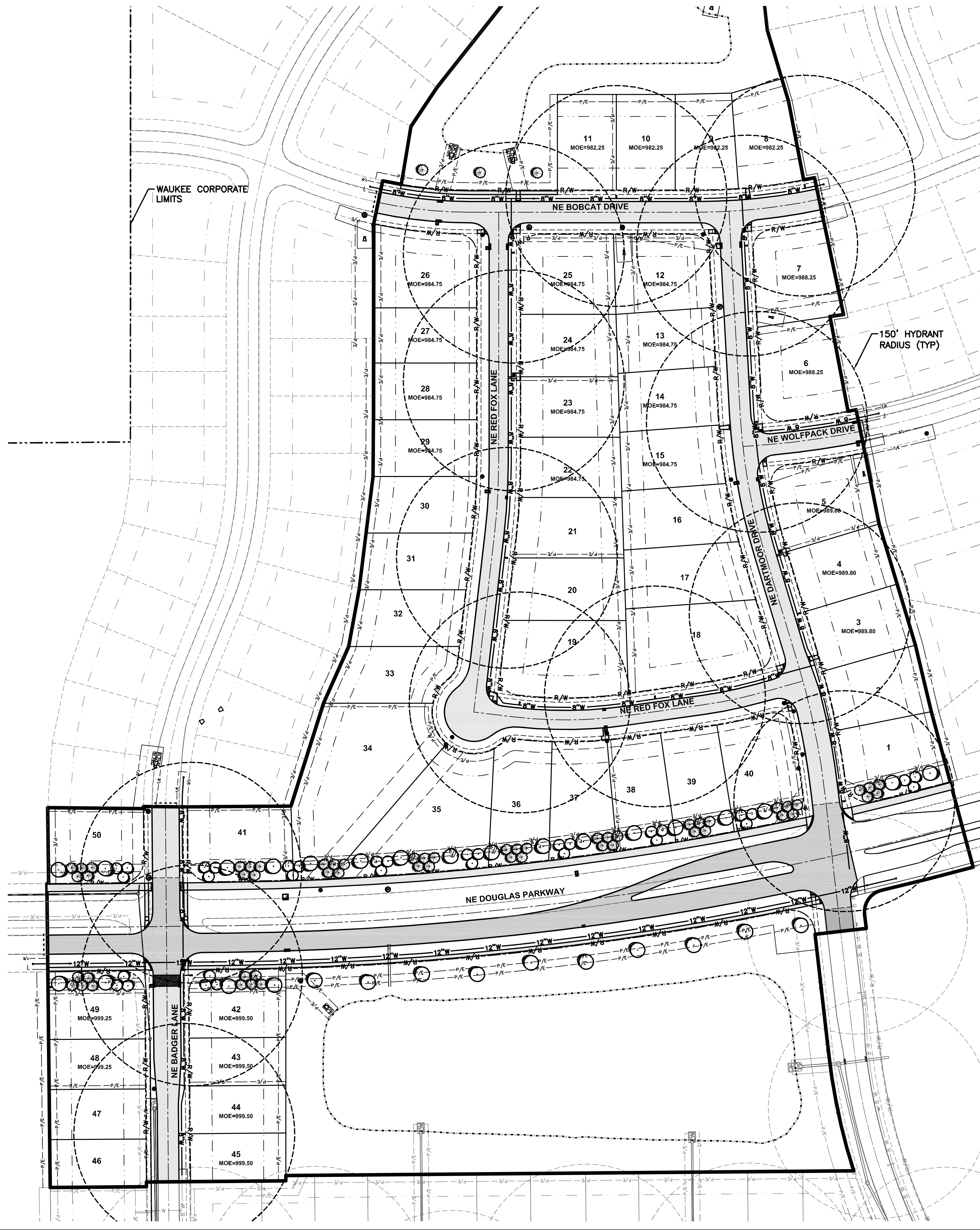
3405 S.E. CROSSROADS DRIVE, SUITE G
GRIMES, IOWA 50111
PHONE: (515) 369-4400 FAX: (515) 369-4410

ENGINEER: EKO

EI: JMM

FOX CREEK ESTATES PLAT 6
TYPICAL SECTIONS AND DETAILS

WAUKEE, IOWA



REVISIONS	DATE
SECOND AS-BUILT SUBMITTAL	12/07/15
FIRST AS-BUILT SUBMITTAL	09/29/15
FINAL SUBMITTAL	09/02/14
SIXTH SUBMITTAL	08/04/14
FIFTH SUBMITTAL	06/27/14
FOURTH SUBMITTAL	06/09/14
THIRD SUBMITTAL	05/22/14
SECOND SUBMITTAL	04/22/14
FIRST SUBMITTAL	04/09/14

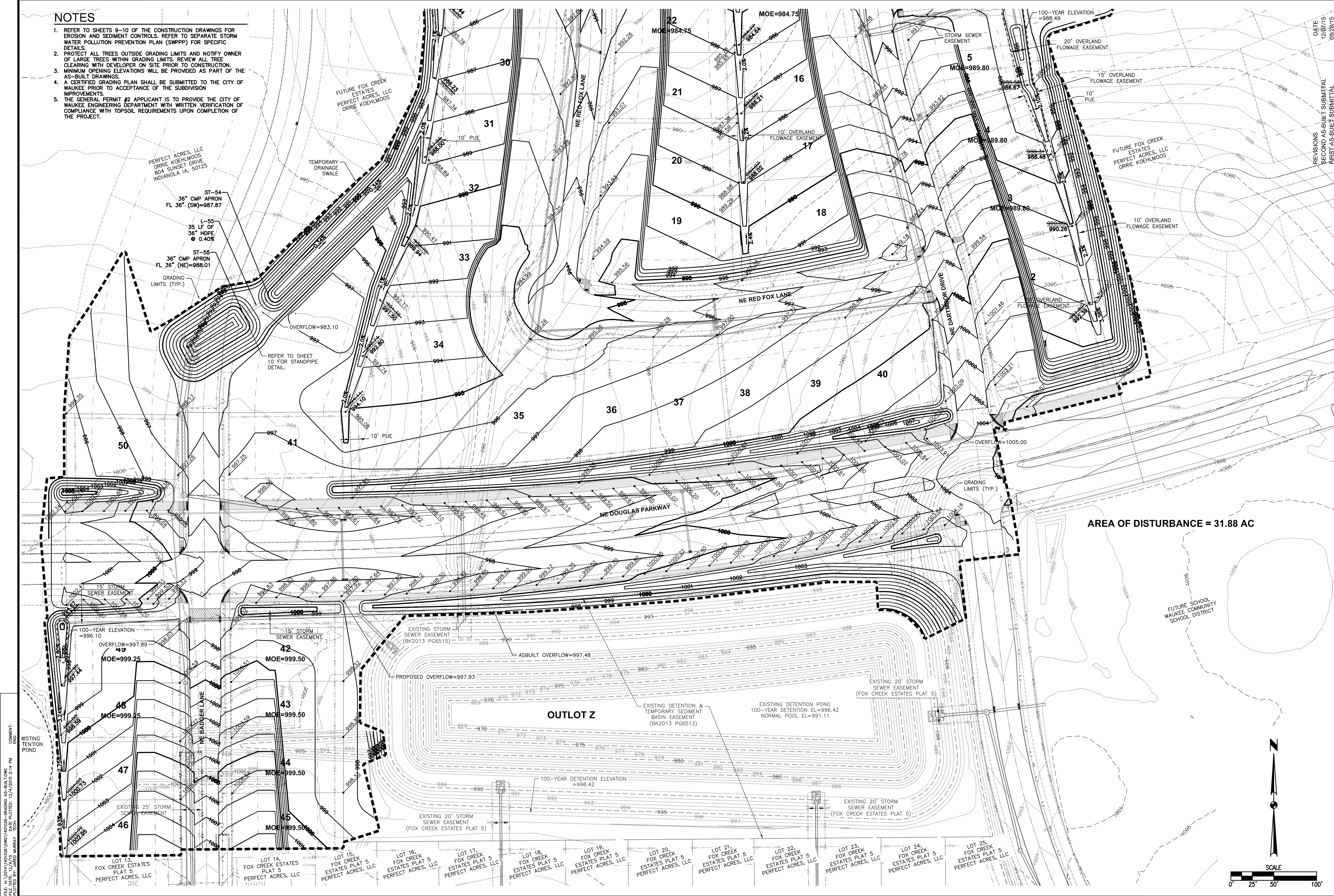
3405 S.E. CROSSROADS DRIVE, SUITE G
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Ei: JMM



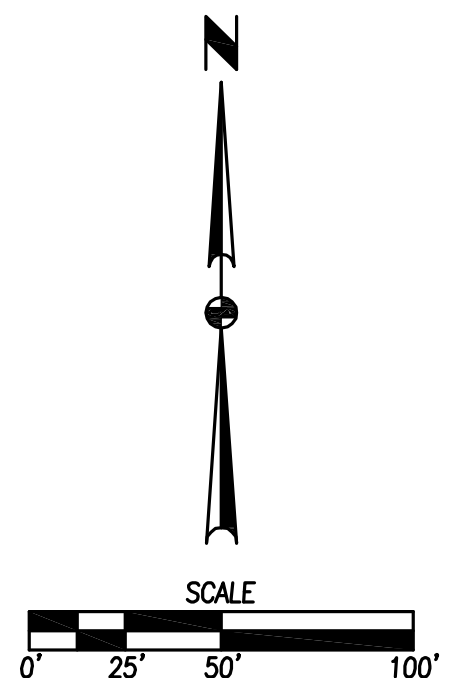
FOX CREEK ESTATES PLAT 6
HYDRANT COVERAGE PLAN
WAUKEE, IOWA

NOTES

1. REFER TO SHEETS 9-10 OF THE CONSTRUCTION DRAWINGS FOR EROSION AND SEDIMENT CONTROLS. REFER TO SEPARATE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FOR SPECIFIC DETAILS.
2. PROTECT ALL TREES OUTSIDE GRADING LIMITS AND NOTIFY OWNER OF LARGE TREES WITHIN GRADING LIMITS. REVIEW ALL TREE CLEARING WITH DEVELOPER ON SITE PRIOR TO CONSTRUCTION.
3. MINIMUM OPENING ELEVATIONS WILL BE PROVIDED AS PART OF THE AS-BUILT DRAWINGS.
4. A CERTIFIED GRADING PLAN SHALL BE SUBMITTED TO THE CITY OF WAUKEE PRIOR TO ACCEPTANCE OF THE SUBDIVISION IMPROVEMENTS.
5. THE GENERAL PERMIT #2 APPLICANT IS TO PROVIDE THE CITY OF WAUKEE ENGINEERING DEPARTMENT WITH WRITTEN VERIFICATION OF COMPLIANCE WITH TOPSOIL REQUIREMENTS UPON COMPLETION OF THE PROJECT.



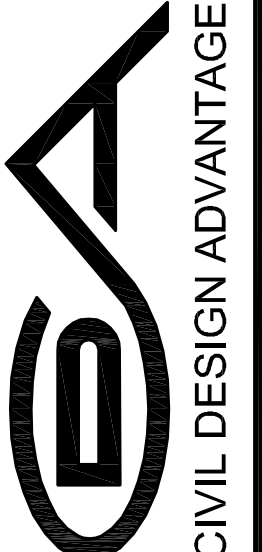
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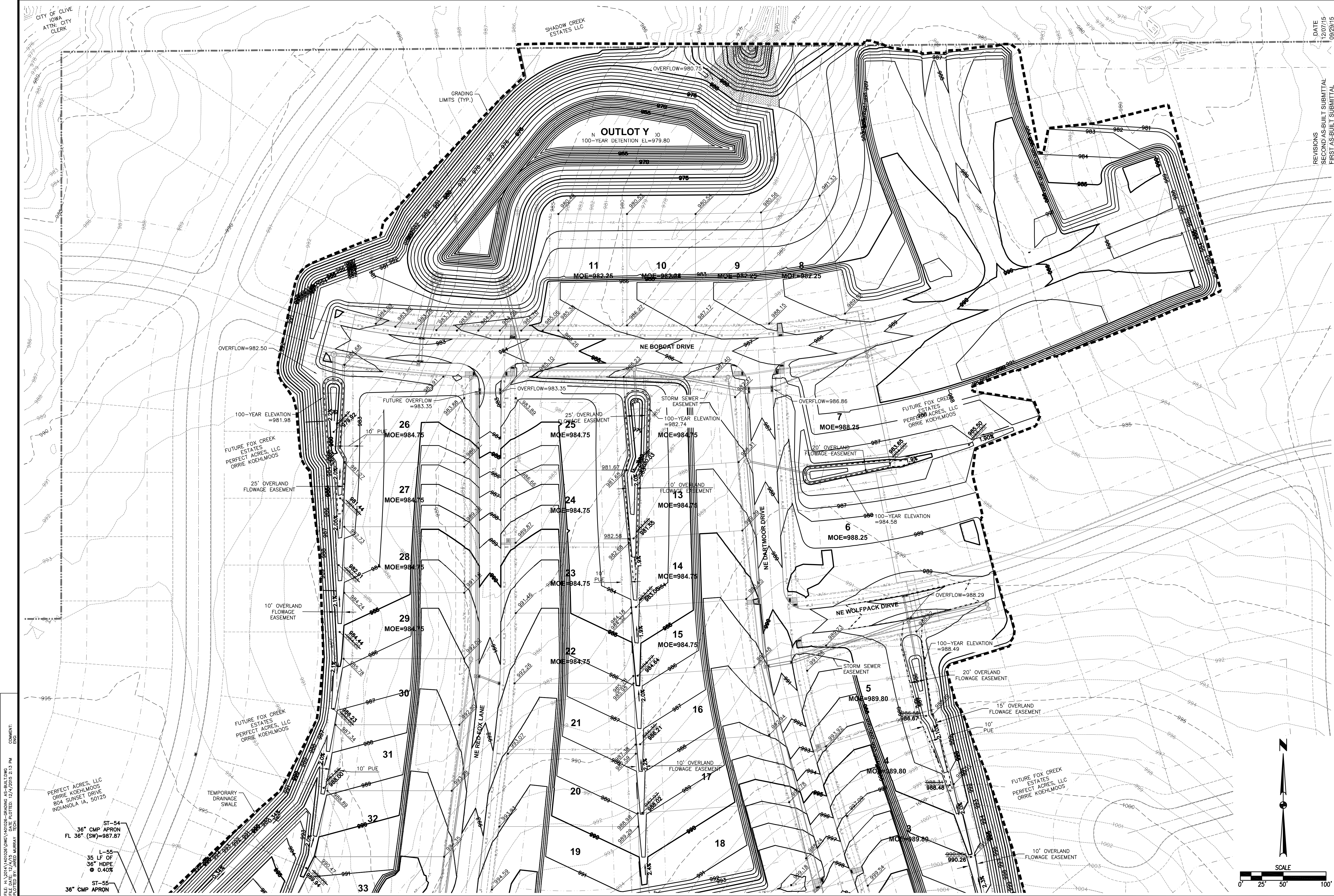


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PLOT DATE: 12/17/2015 2:14 PM
DRAWN BY: JMM
CHECKED BY: JMM

DATE	
12/07/15	SECOND AS-BUILT SUBMITTAL
09/28/15	FIRST AS-BUILT SUBMITTAL
REVISIONS	
09/02/14	FINAL SUBMITTAL
08/04/14	SIXTH SUBMITTAL
06/27/14	FIFTH SUBMITTAL
06/09/14	FOURTH SUBMITTAL
05/22/14	THIRD SUBMITTAL
04/22/14	SECOND SUBMITTAL
04/09/14	FIRST SUBMITTAL

3405 S.E. CROSSROADS DRIVE, SUITE G
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PHONE: (515) 369-4400 FAX: (515) 369-4410
ENGINEER: EKO
Ei: JMM





FILE: H:\2014\1401028\1401028-GRADING-AS-BUILD.DWG
 COMMENT: DATE PLOTTED: 12/17/2015 2:13 PM
 PLOTTED BY: JARED MURRAY
 DEC

PERFECT ACRES, LLC
 ORRIE KOEHLMOOS
 804 SUNSET DRIVE
 INDIANOLA IA, 50125

ST-54
 36" CMP APRON
 FL 36" (SW)=987.87

L-55
 35 LF OF
 36" HDPE
 @ 0.40%

ST-55
 36" CMP APRON

REVISIONS	DATE
FINAL SUBMITTAL	09/02/14
SIXTH SUBMITTAL	09/04/14
FIFTH SUBMITTAL	06/27/14
FOURTH SUBMITTAL	06/09/14
THIRD SUBMITTAL	05/22/14
SECOND SUBMITTAL	04/22/14
FIRST AS-BUILT SUBMITTAL	04/09/14

FOX CREEK ESTATES PLAT 6

GRADING PLAN

8

42

1401.026

3405 S.E. CROSSROADS DRIVE, SUITE G
 GRIMES, IOWA 50111
 PHONE: (515) 369-4400 FAX: (515) 369-4410

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EI: JMM

CIVIL DESIGN ADVANTAGE

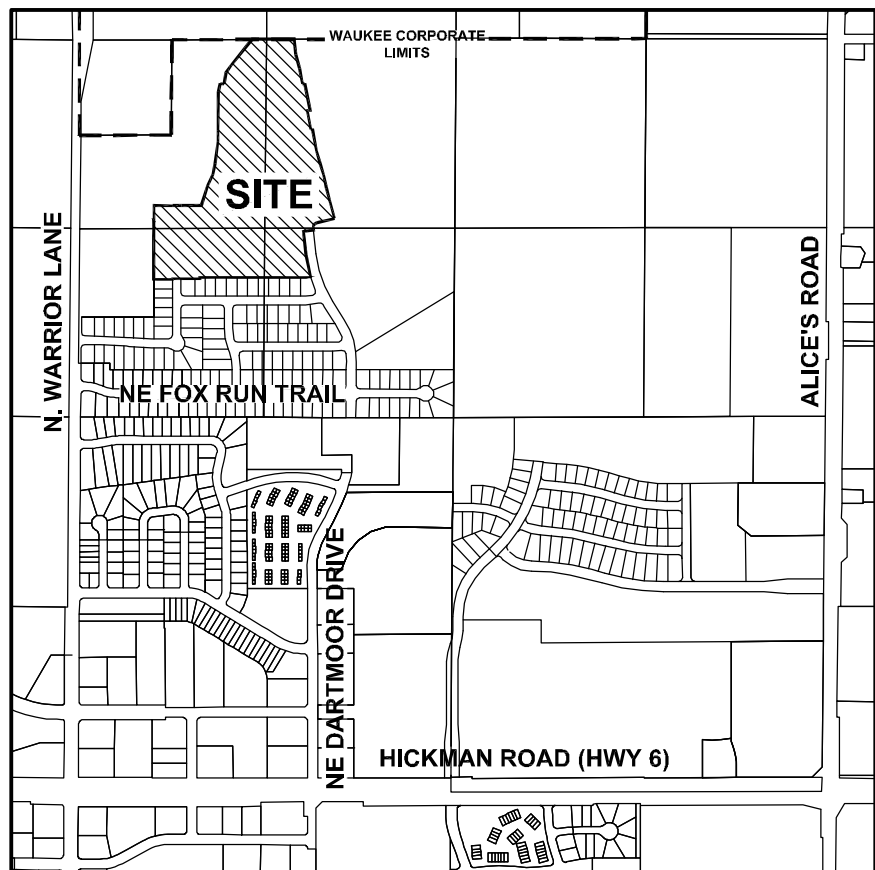
WAUKEE, IOWA

FOX CREEK ESTATES PLAT 6

EROSION AND SEDIMENT CONTROL PLAN

VICINITY MAP

NOT TO SCALE

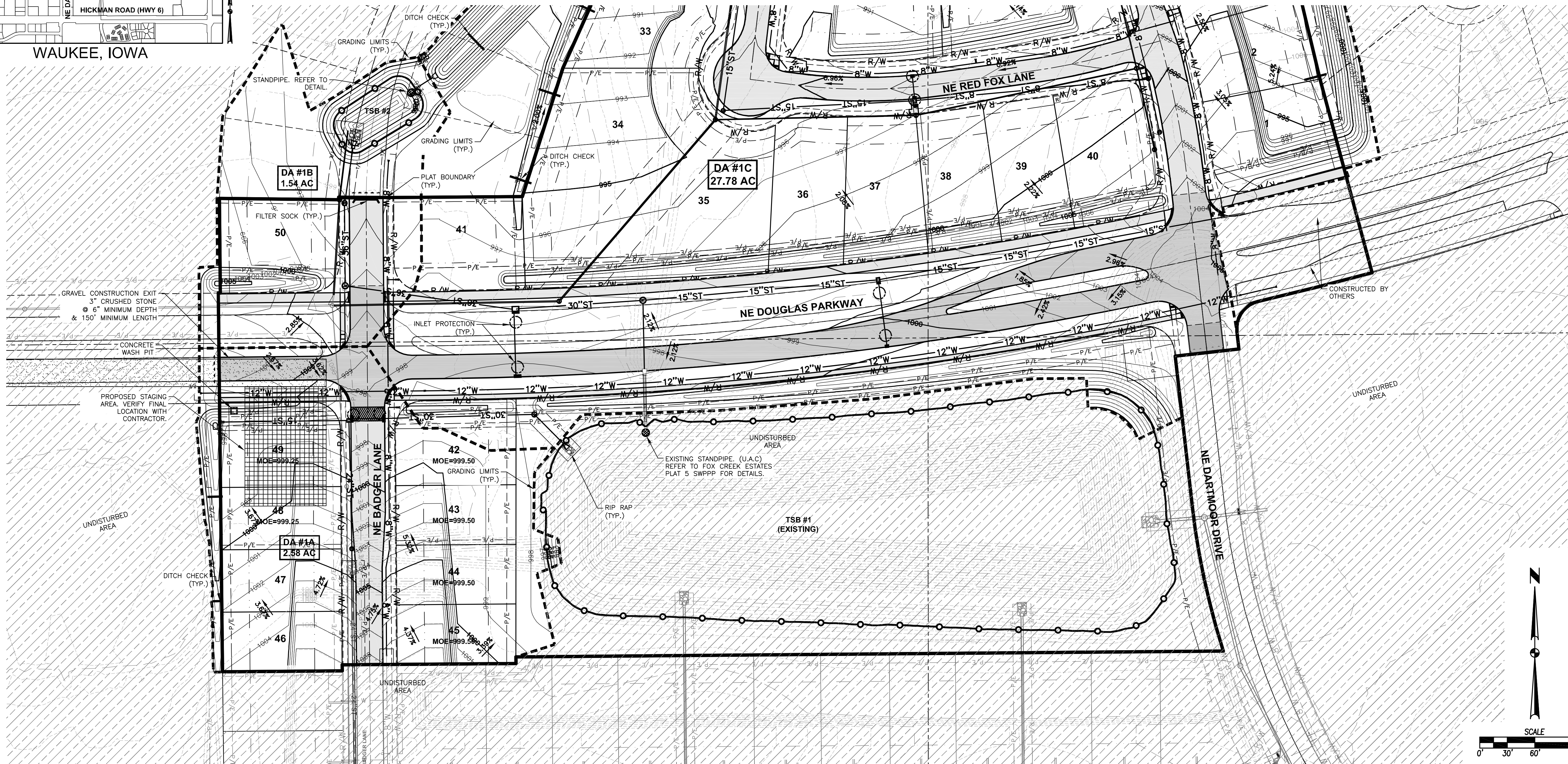


DISCHARGE POINT SUMMARY

DISCHARGE POINT #1 DIRECTLY INTO AN UNNAMED TRIBUTARY OF LITTLE WALNUT CREEK	
TOTAL AREA DISTURBED TO DISCHARGE POINT (PLAT 6)	31.90 ACRES
STORAGE VOLUME REQUIRED (# OF ACRES*3600 CU FT) (PLAT 6)	114,840 CU FT
VOLUME PROVIDED IN DITCH CHECK @ 2-3% (577 LF @ 15 CU FT/LF)	8,655 CU FT
VOLUME PROVIDED IN SILT FENCE (2641 LF @ 4.5 CU FT/LF OF FENCE)	11,885 CU FT
VOLUME PROVIDED IN FILTER SOCK (50 LF @ 2.0 CU FT/LF OF SOCK)	100 CU FT
VOLUME PROVIDED IN TSB #1 (EXISTING)	187,358 CU FT
VOLUME PROVIDED IN TSB #2	5,375 CU FT
VOLUME PROVIDED IN TSB #3	167,366 CU FT
TOTAL VOLUME PROVIDED	380,739 CU FT

SWPPP LEGEND

DRAINAGE ARROW	← XX %	UNDISTURBED AREA	
GRADING LIMITS	---	RIPRAP	
FILTER SOCK		GRAVEL ENTRANCE	
SILT FENCE	---	STAGING AREA	
DITCH CHECK	---	TEMPORARY SEDIMENT BASIN	
INLET PROTECTION		TEMPORARY STANDPIPE	
PORTABLE RESTROOM			
CONCRETE WASHOUT PIT			



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CHECKED BY: JARED MURRAY

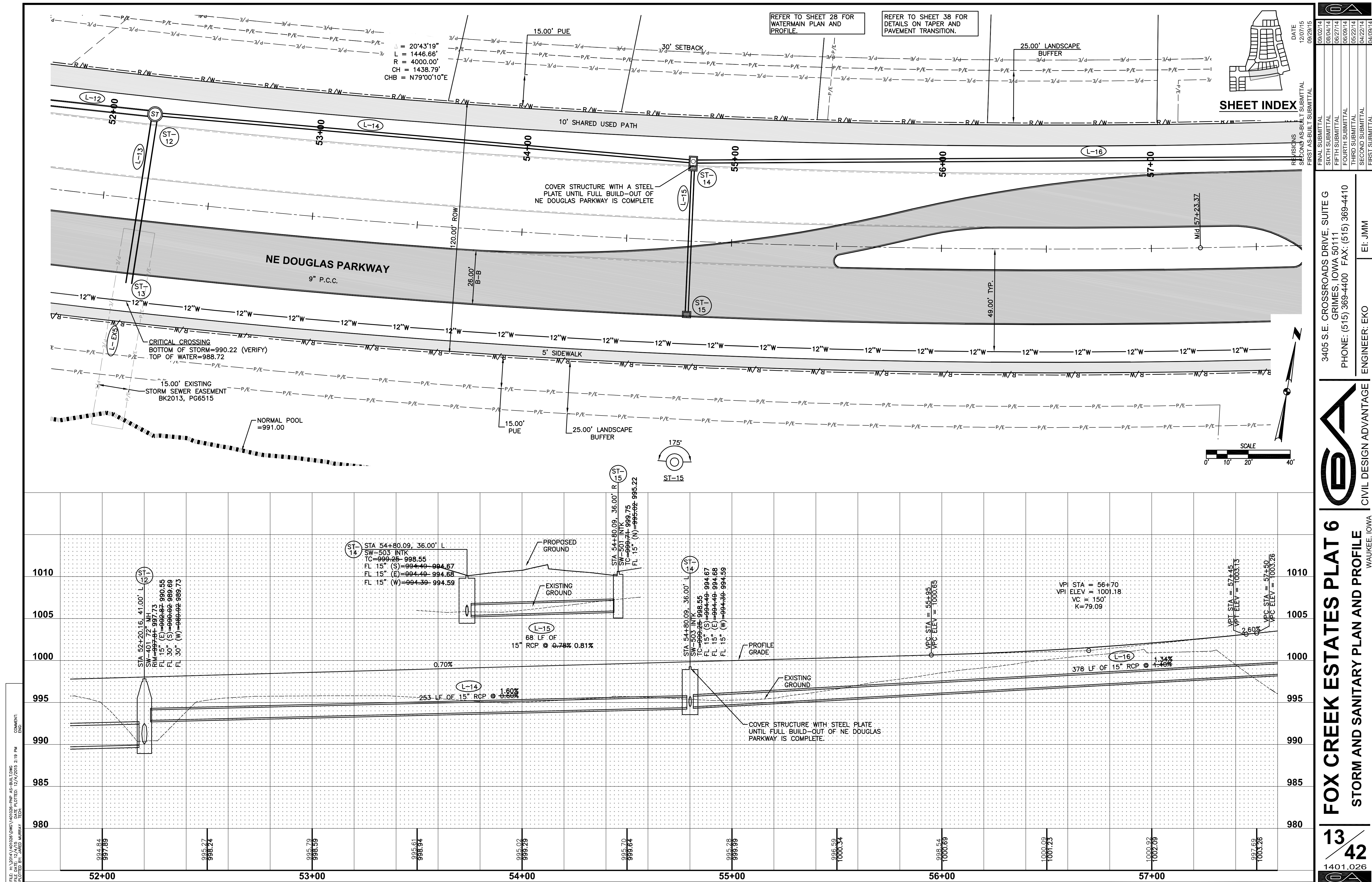
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FIRST AS-BUILT SUBMITTAL	09/29/15
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SECOND SUBMITTAL	04/22/14
FIRST SUBMITTAL	04/09/14

3405 S.E. CROSSROADS DRIVE, SUITE G
GRIMES, IOWA 50111
PHONE: (515) 369-4400 FAX: (515) 369-4410
ENGINEER: EKO
Ei: JMM

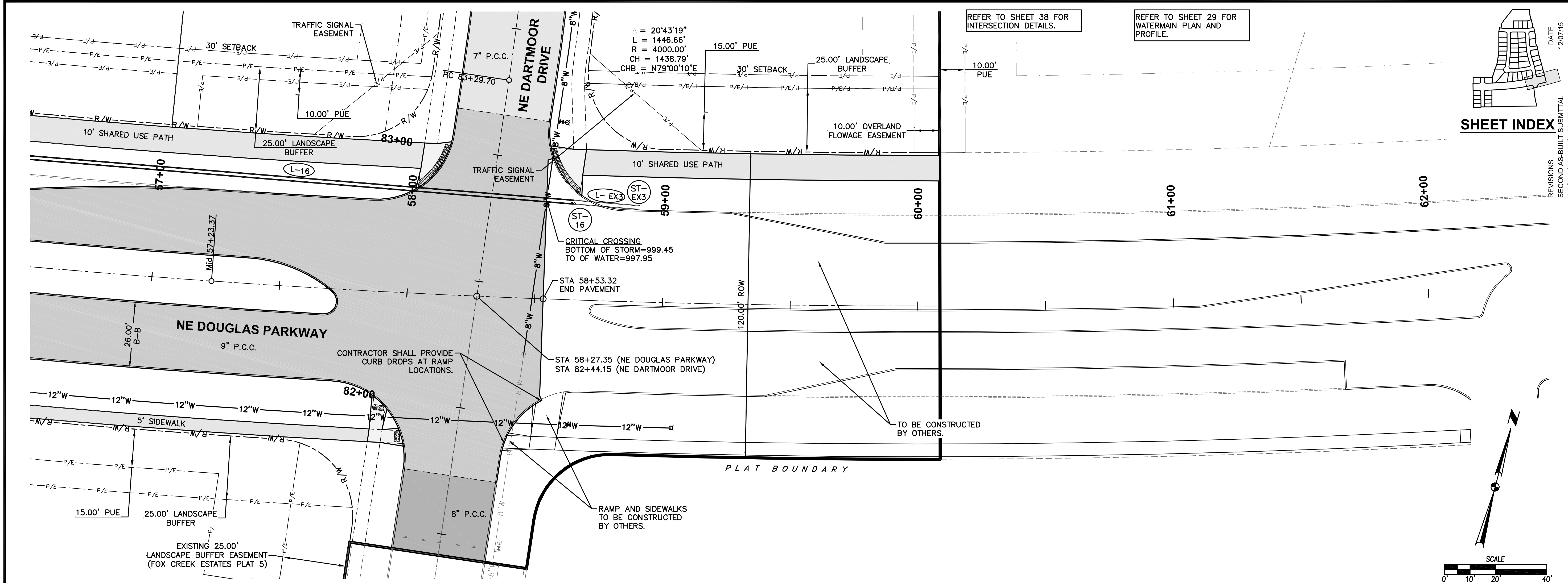


FOX CREEK ESTATES PLAT 6
EROSION AND SEDIMENT CONTROL PLAN
WAUKEE, IOWA

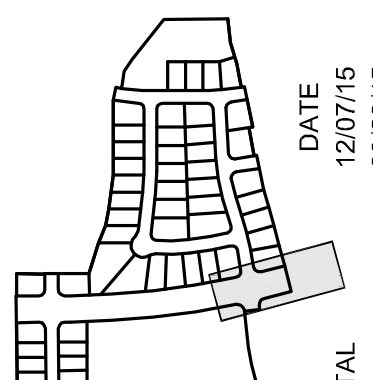
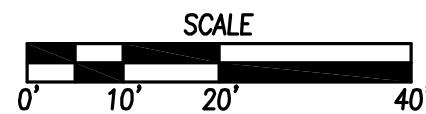




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CONVENT: SDC

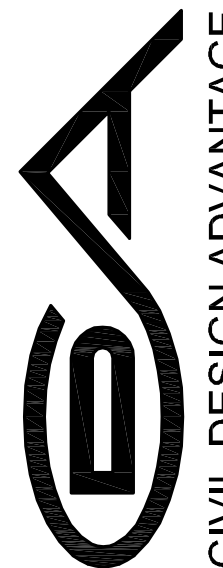


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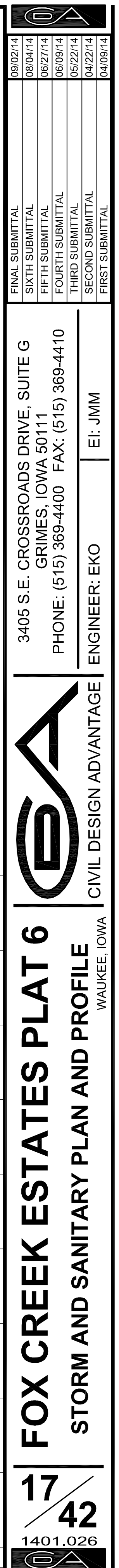


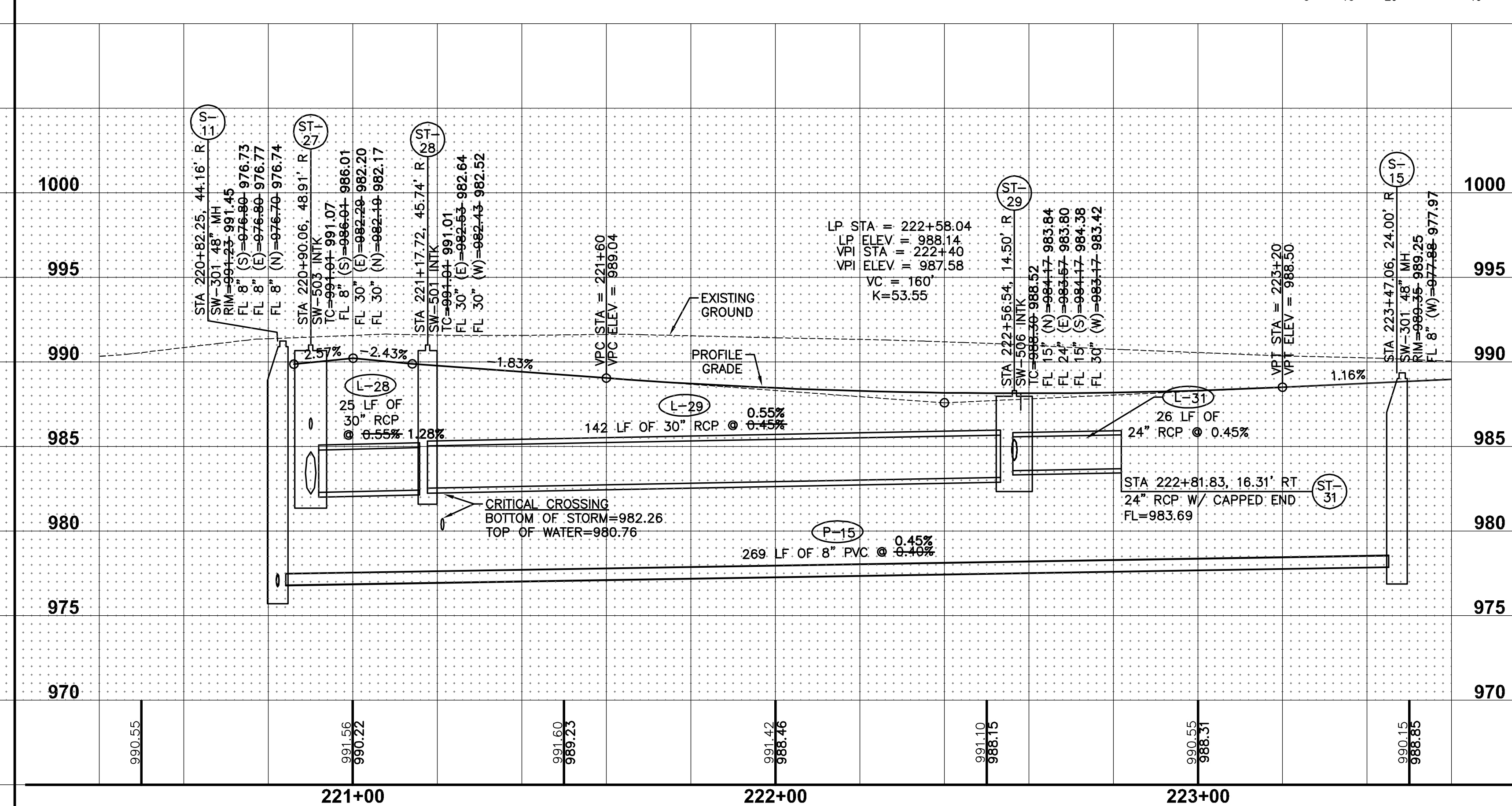
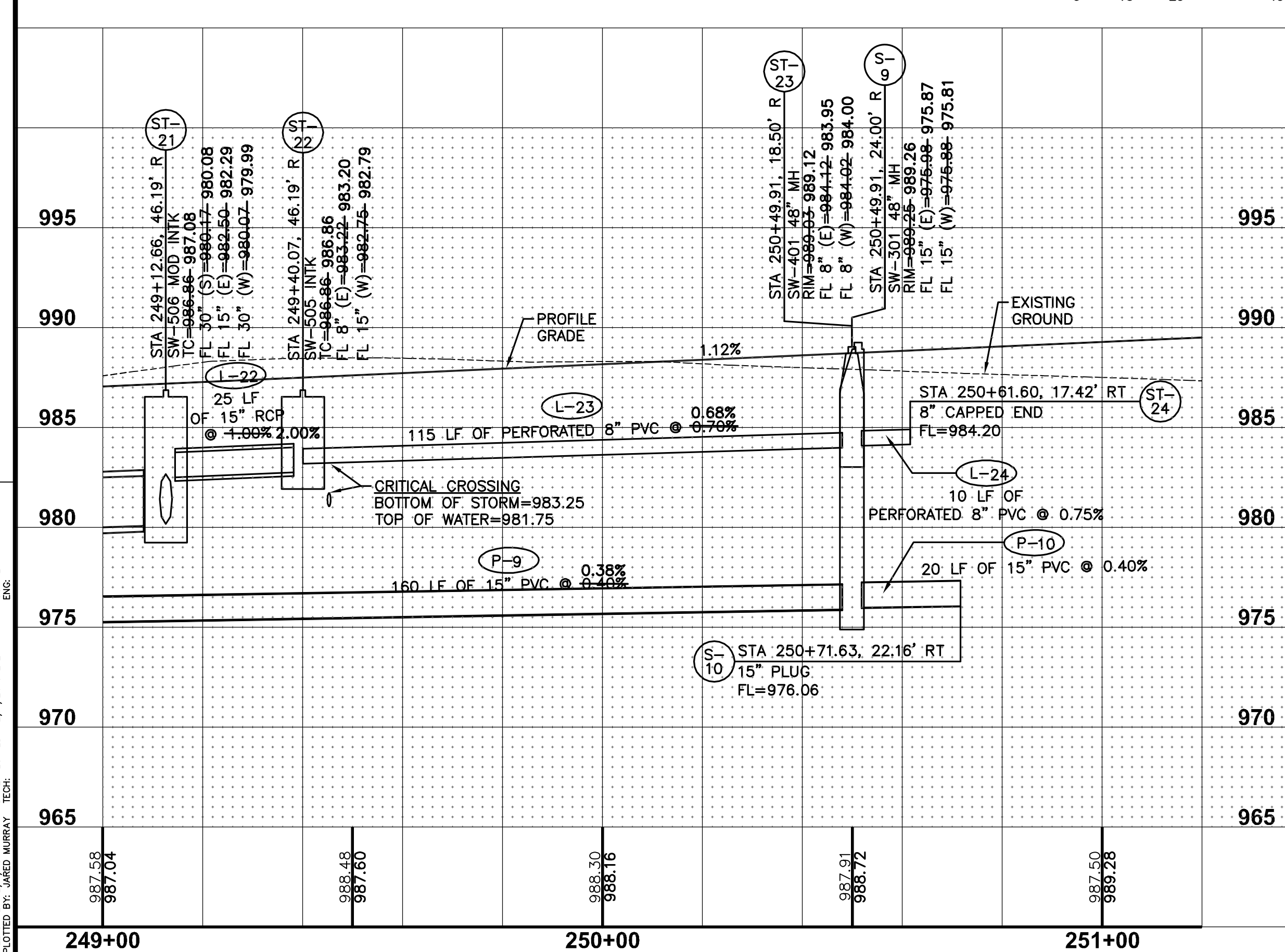
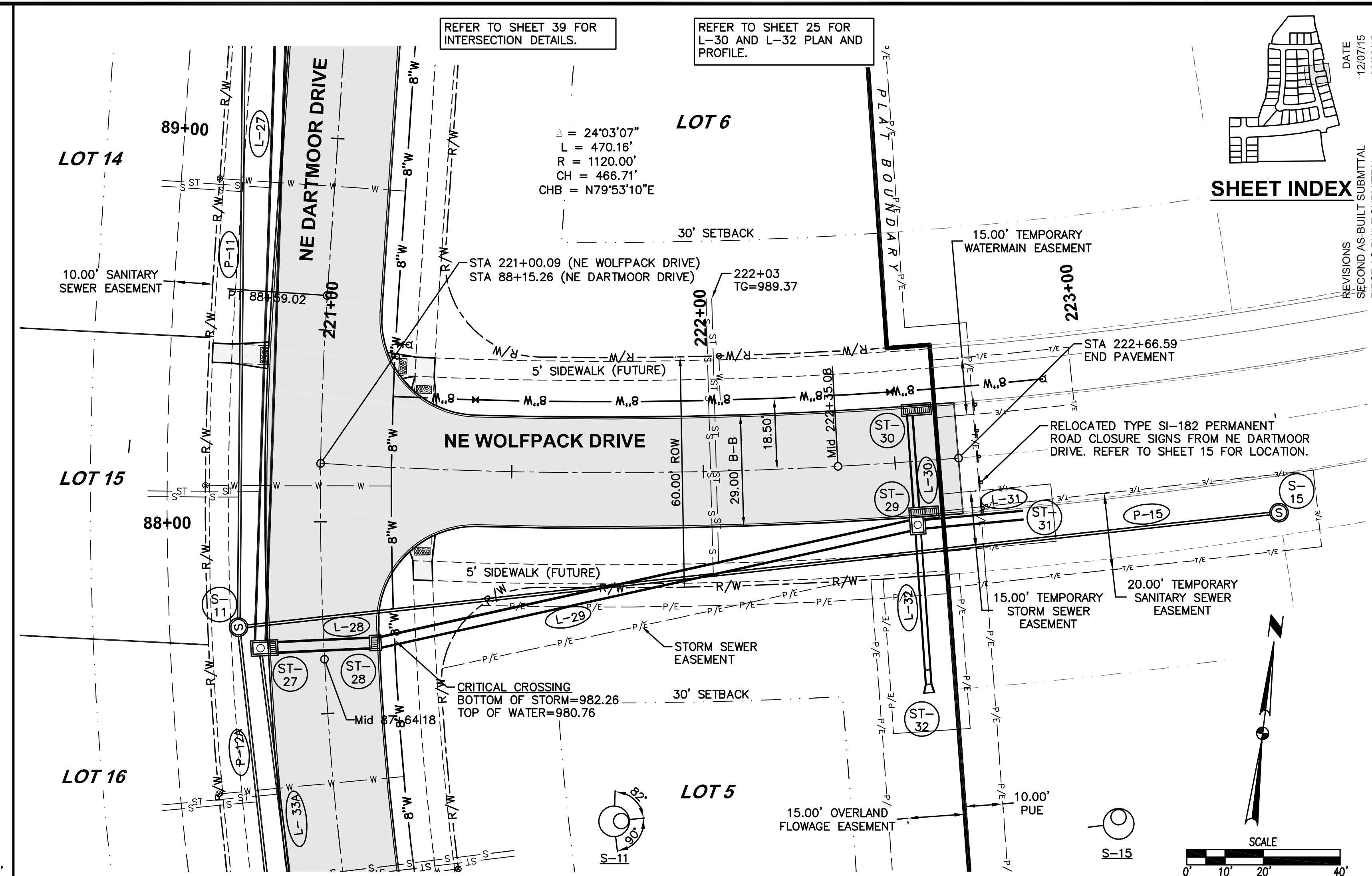
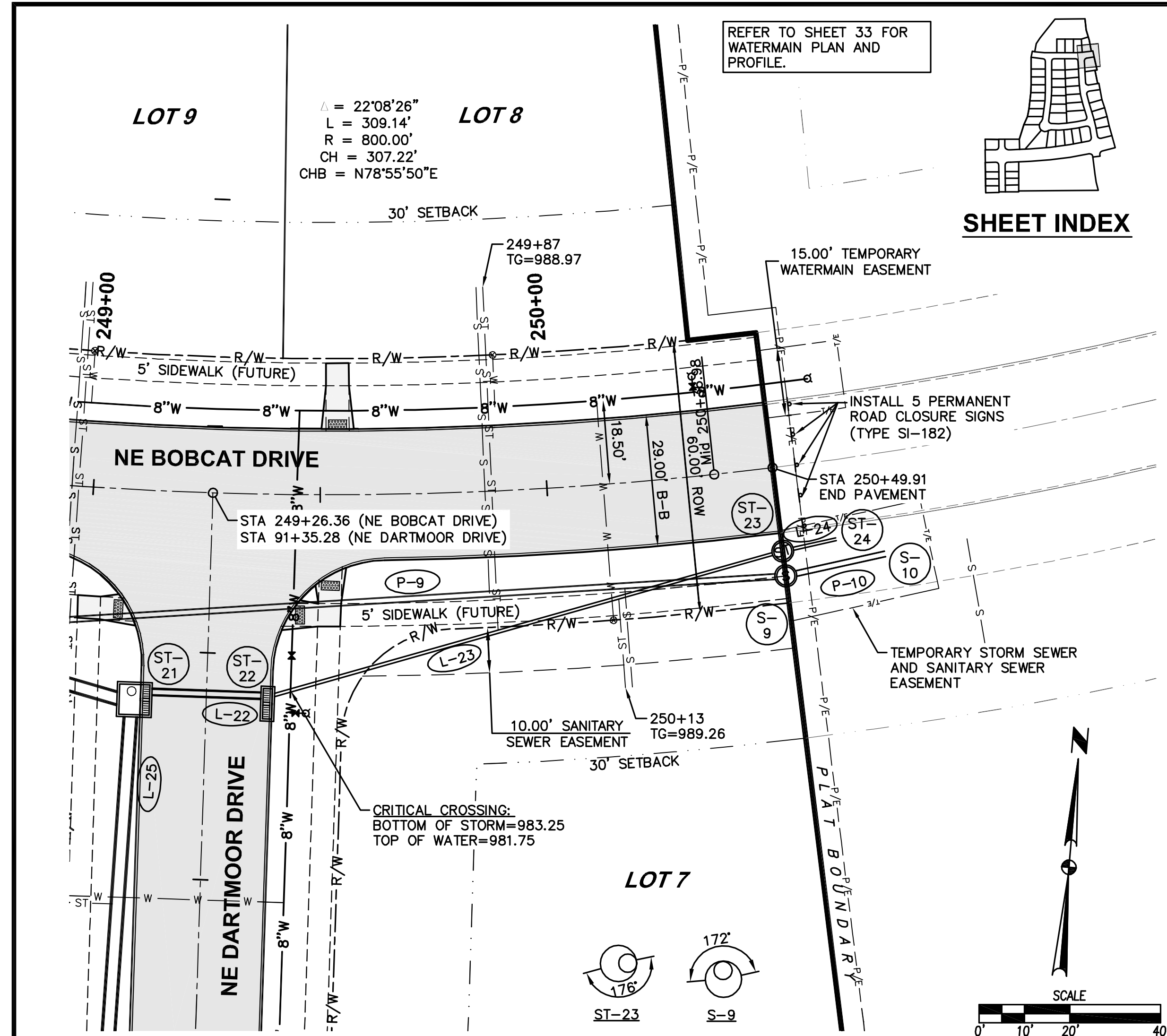
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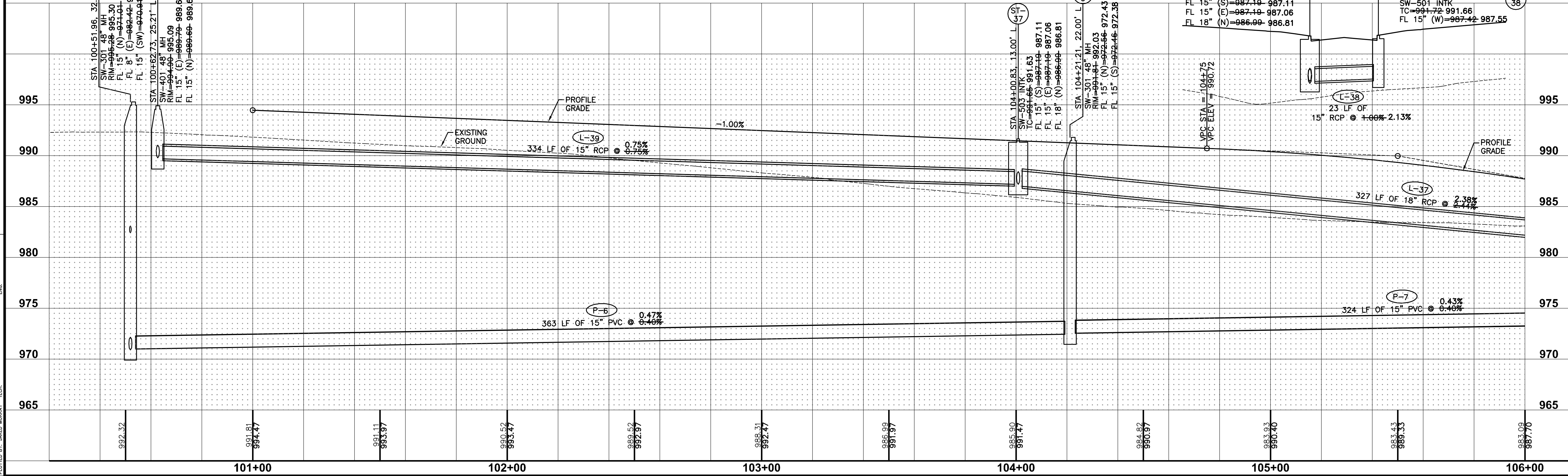
FOX CREEK ESTATES PLAT 6
STORM AND SANITARY PLAN AND PROFILE

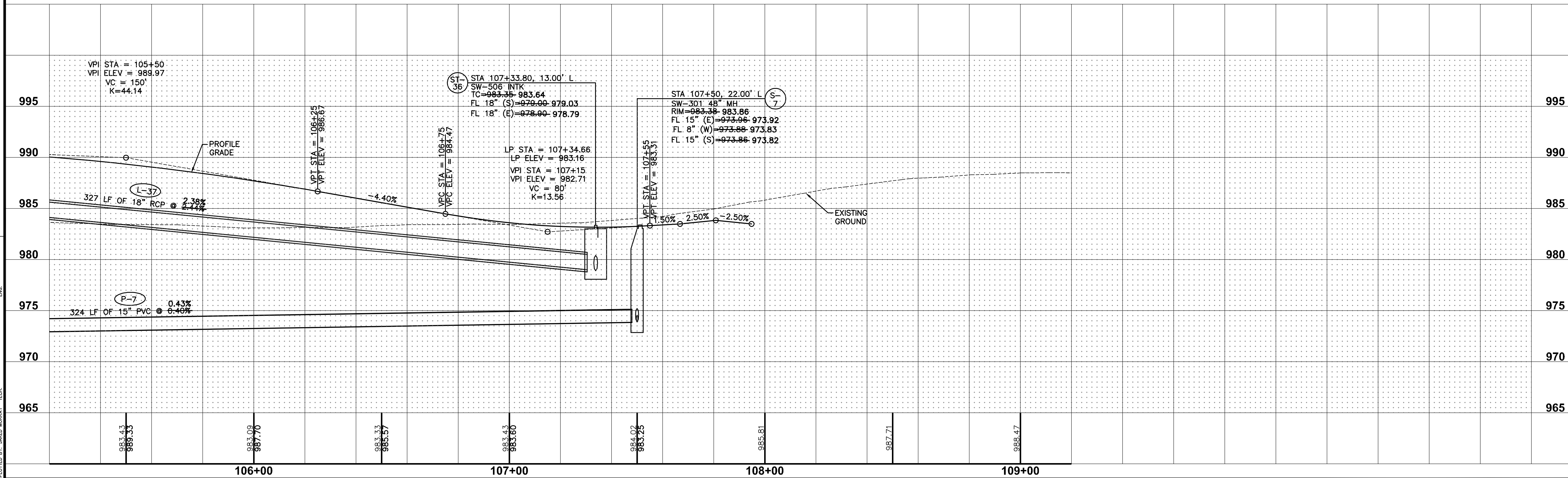
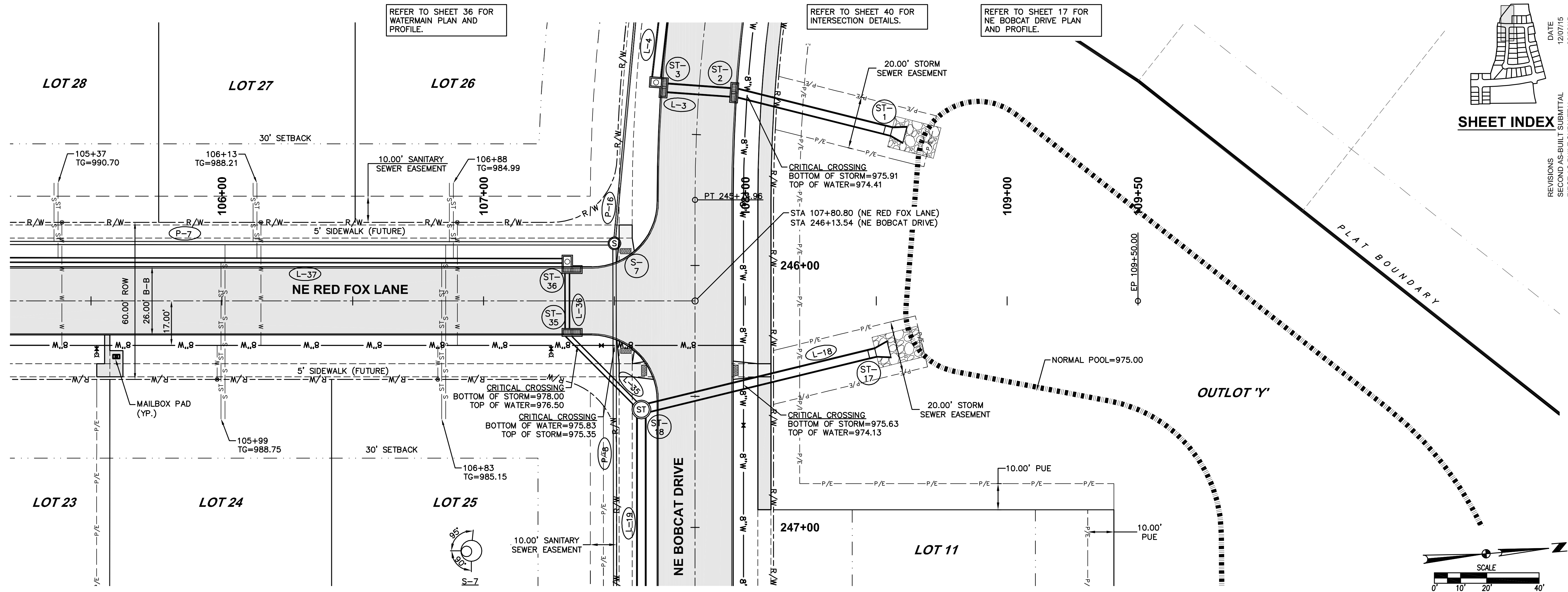


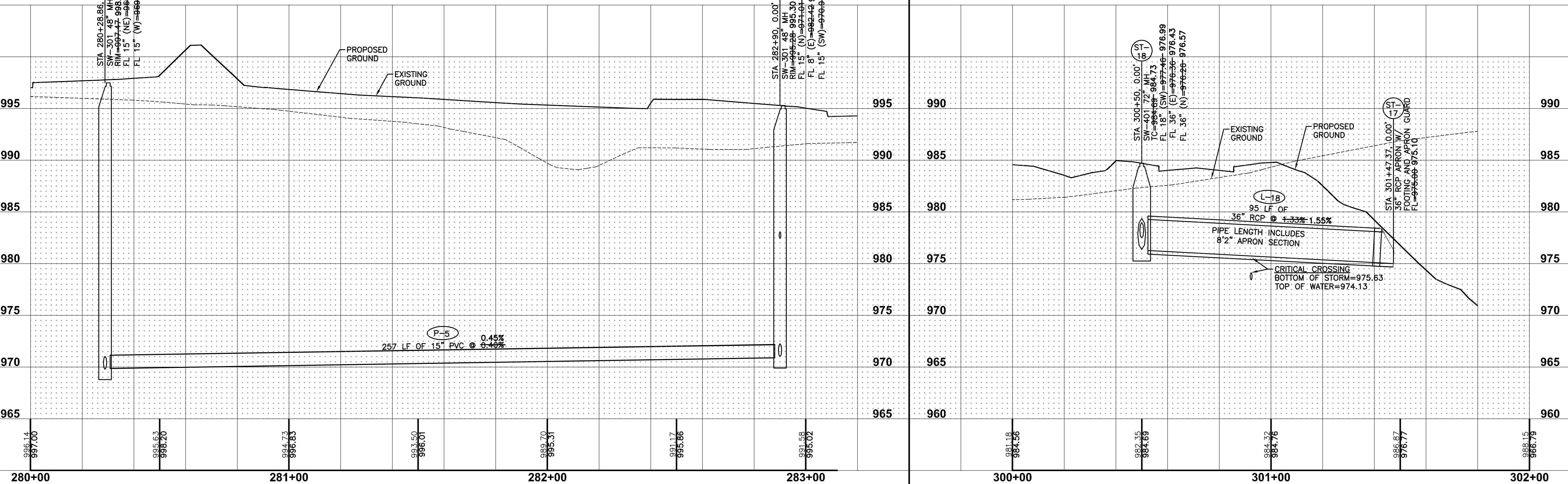
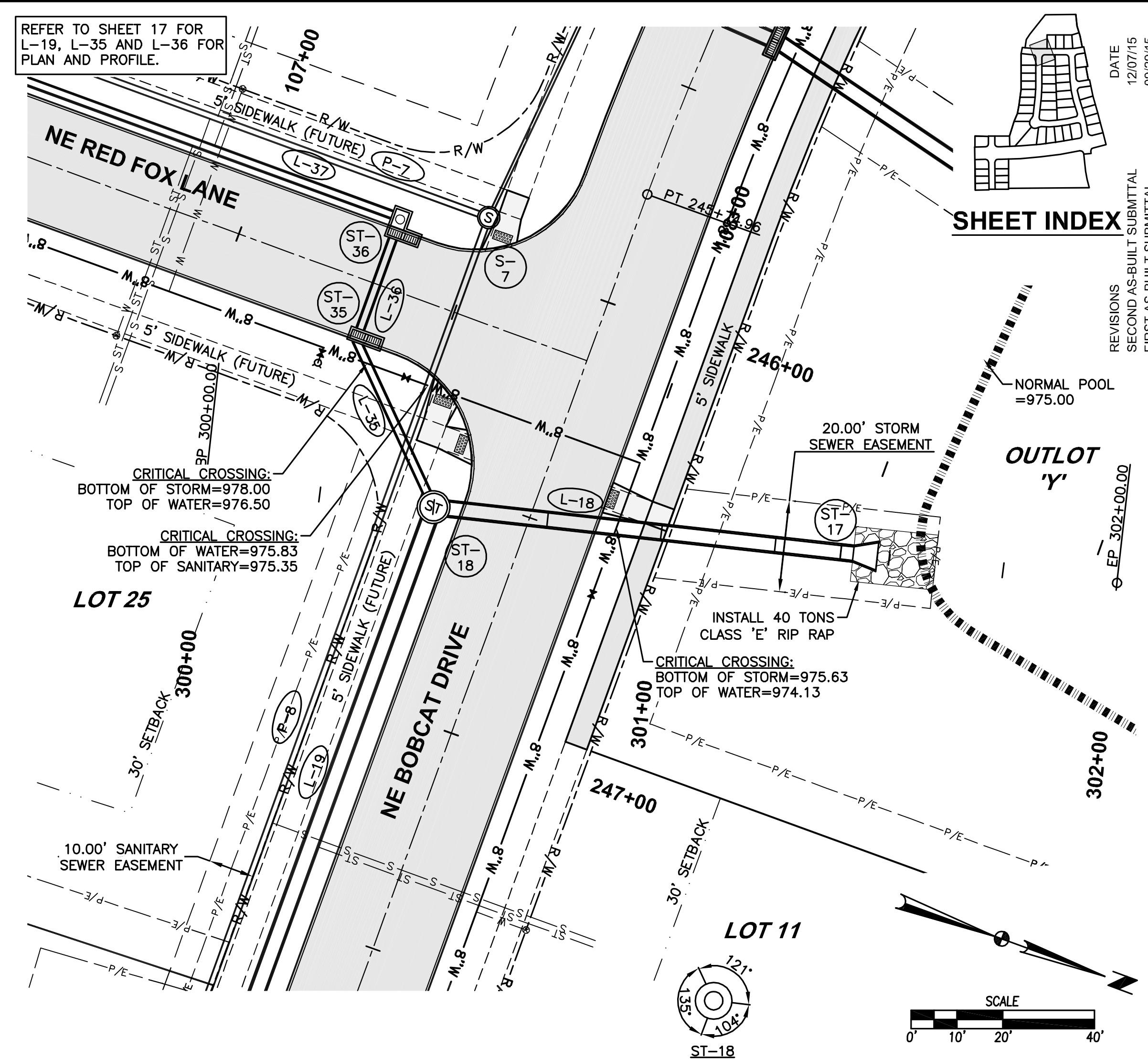
3405 S.E. CROSSROADS DRIVE, SUITE G
GRIMES, IOWA 50111
PHONE: (515) 369-4400 FAX: (515) 369-4410
ENGINEER: EKO
EI: JMM











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REFER TO SHEET 12 FOR
CONTINUATION OF P-4.

REFER TO SHEETS 19-20
FOR CONTINUATION OF P-6
AND P-18

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SHEET INDEX

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		06/27/14
		06/09/14
		05/22/14
		04/22/14
		04/09/14

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EI: JMM

ENGINEER: EKO



FOX CREEK ESTATES PLAT 6

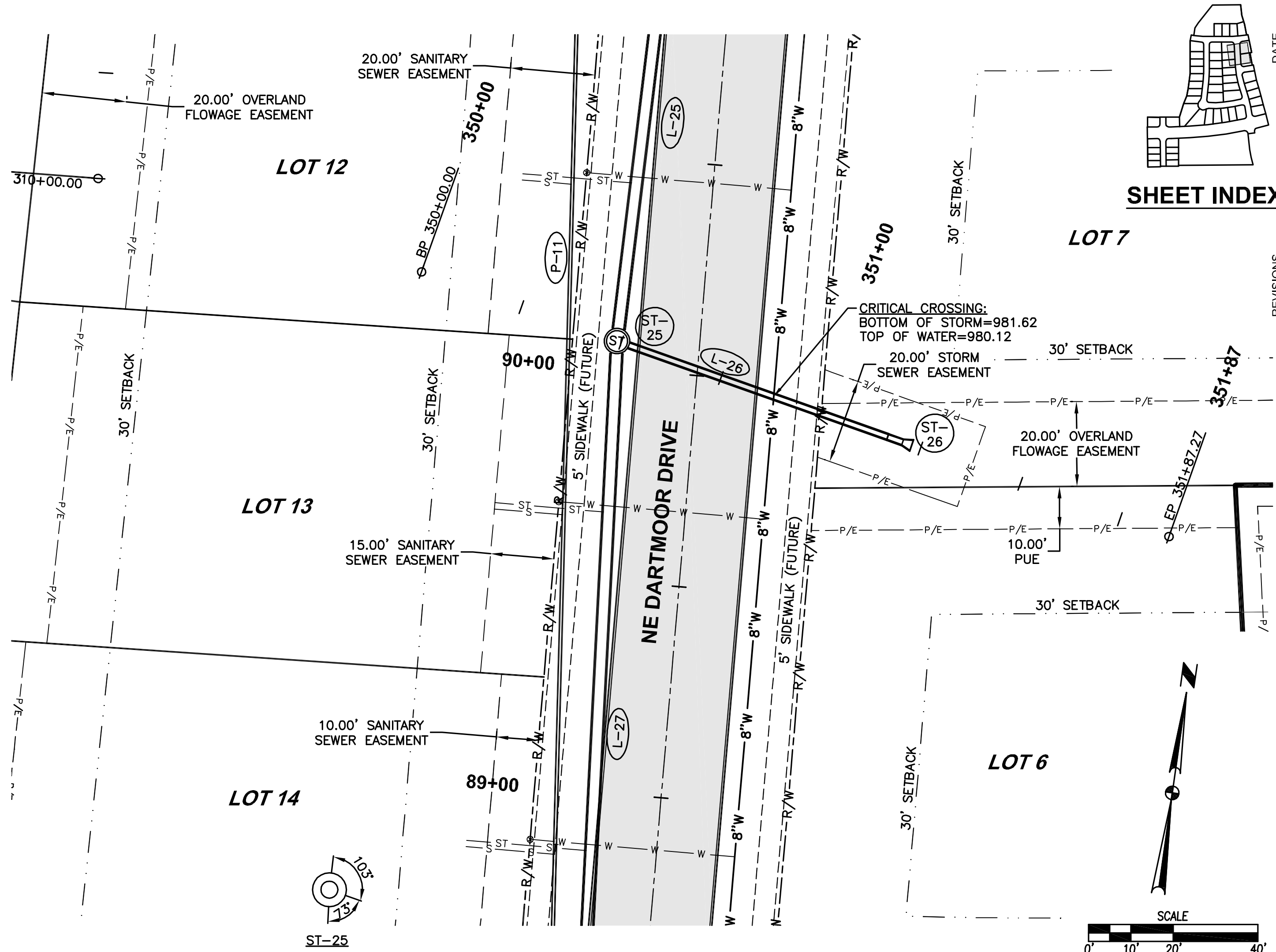
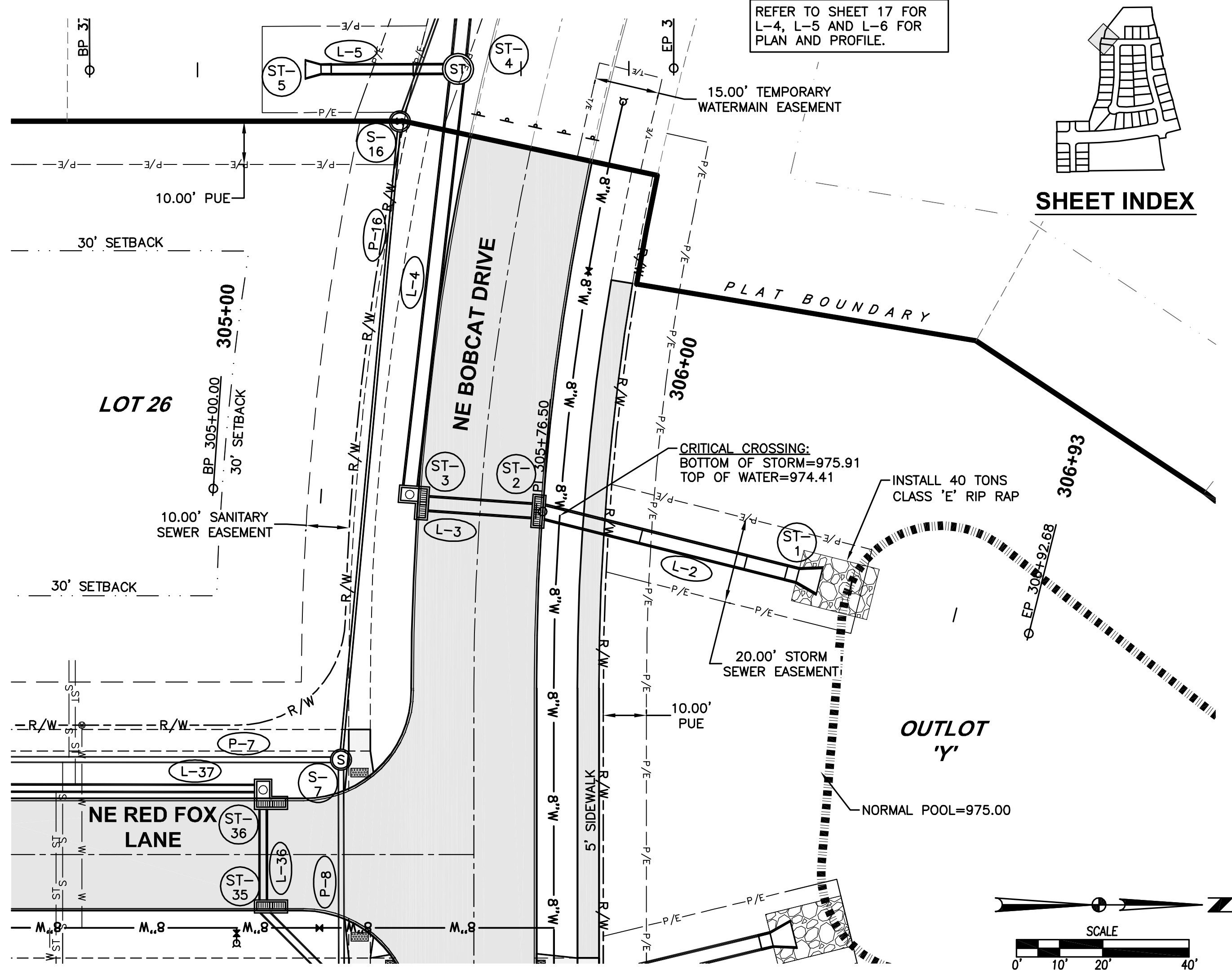
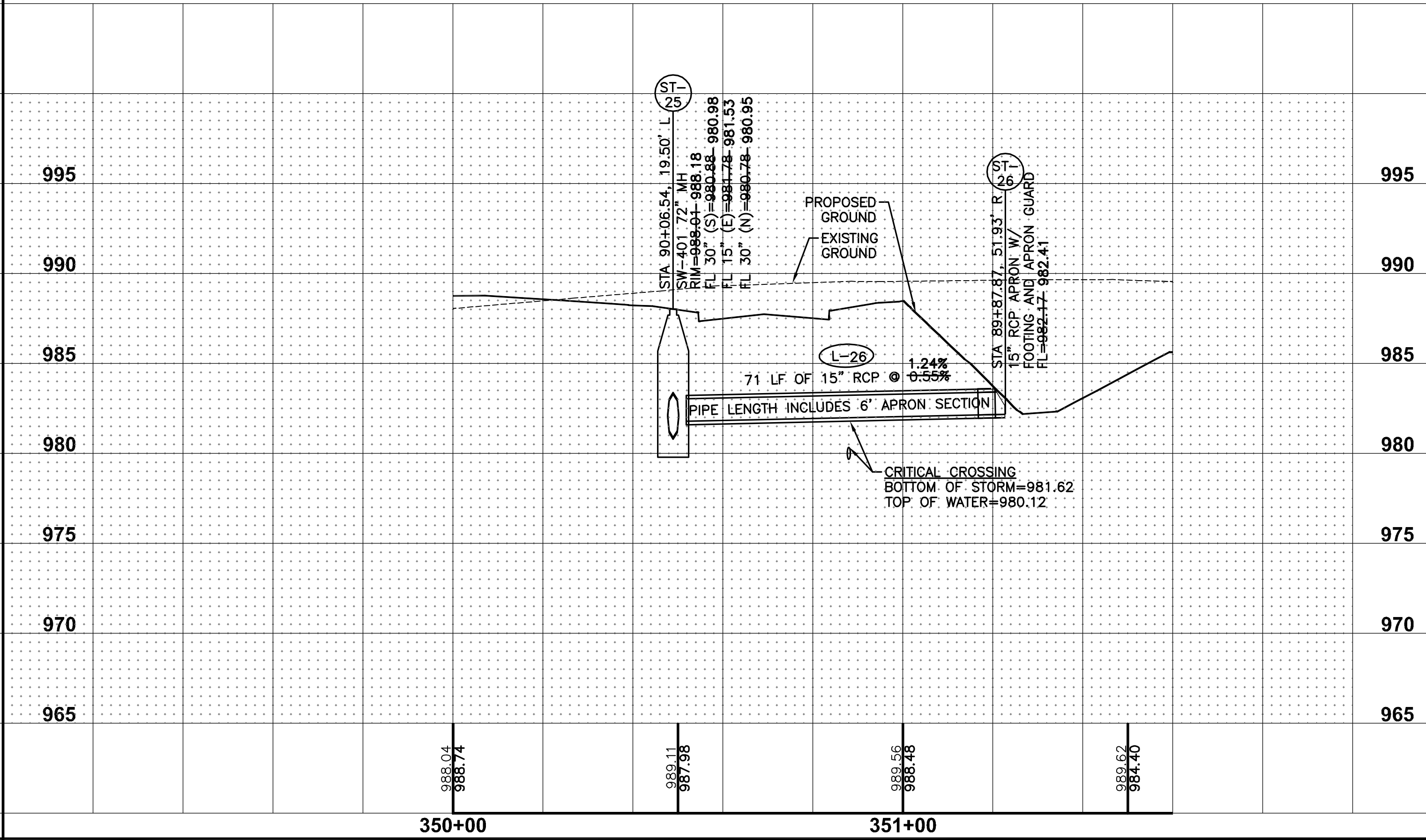
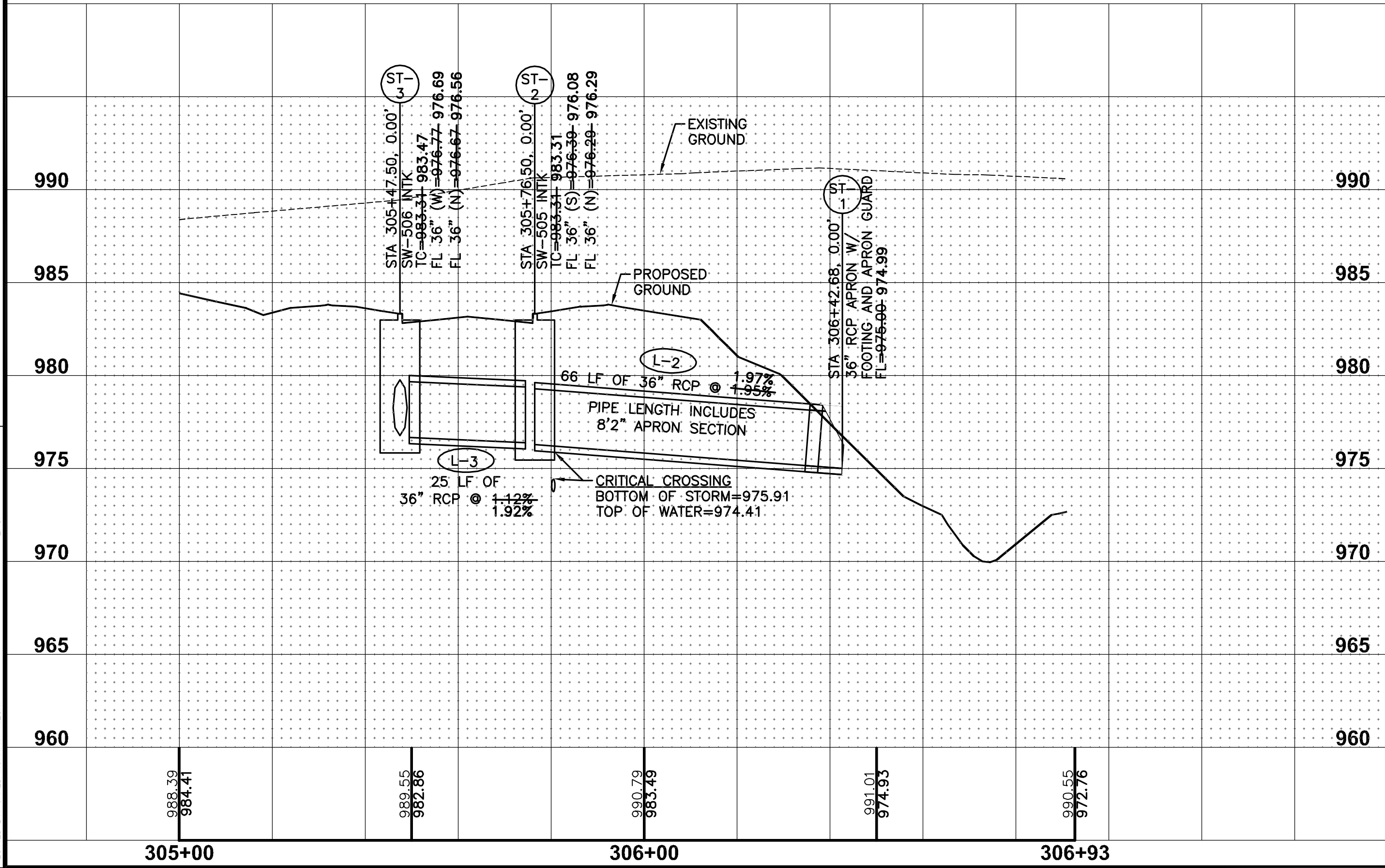
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22/42
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CHECKED BY: JARED MURRAY

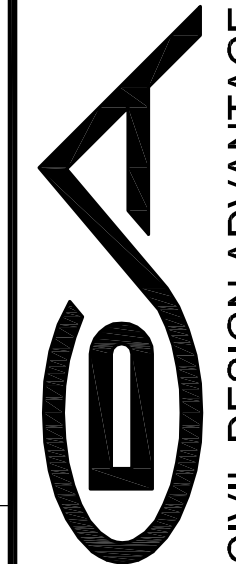
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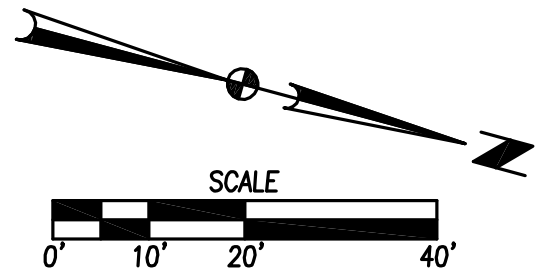
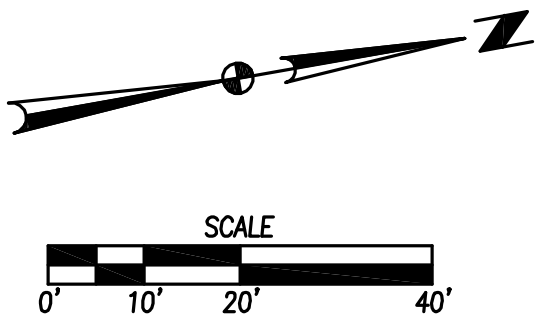
FOX CREEK ESTATES PLAT 6

STORM AND SANITARY PLAN AND PROFILE

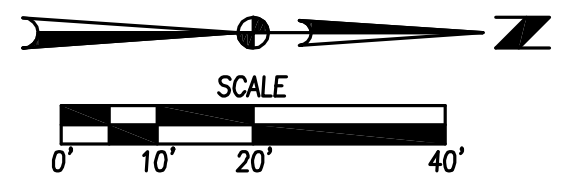
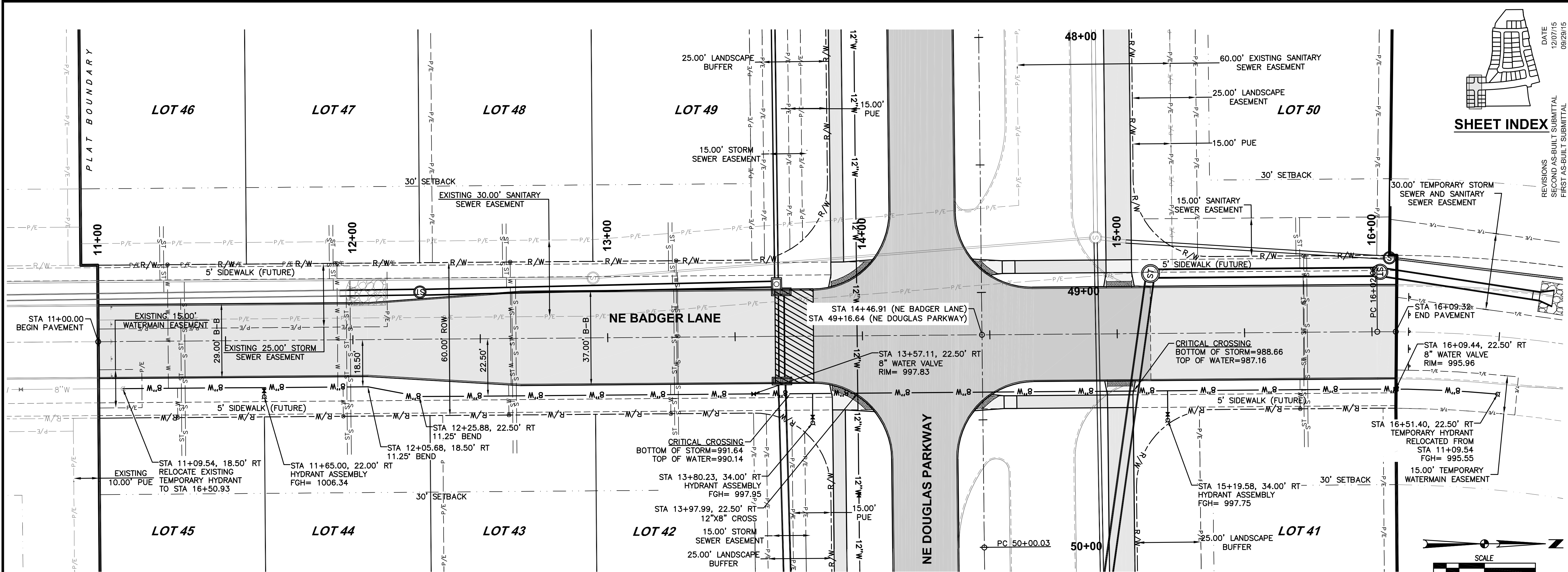
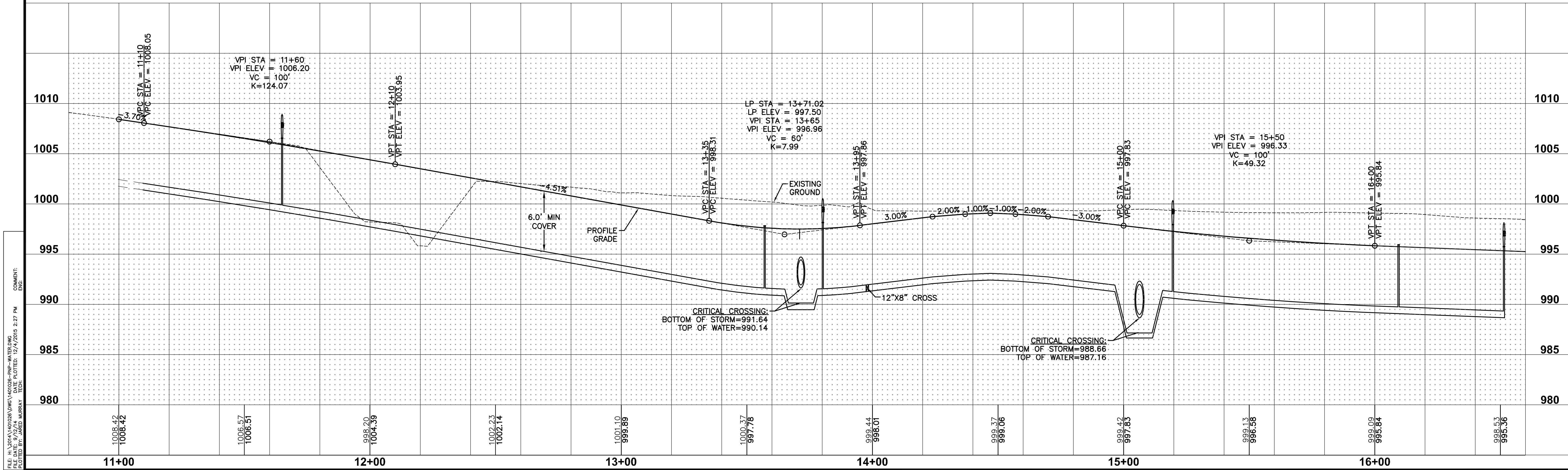


3405 S.E. CROSSROADS DRIVE, SUITE G
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ENGINEER: EKO

REVISIONS	DATE	BY	DATE	BY
FINAL SUBMITTAL	09/02/14	JMM	09/02/14	JMM
SIXTH SUBMITTAL	08/04/14	JMM	08/04/14	JMM
FIFTH SUBMITTAL	06/27/14	JMM	06/27/14	JMM
FOURTH SUBMITTAL	06/09/14	JMM	06/09/14	JMM
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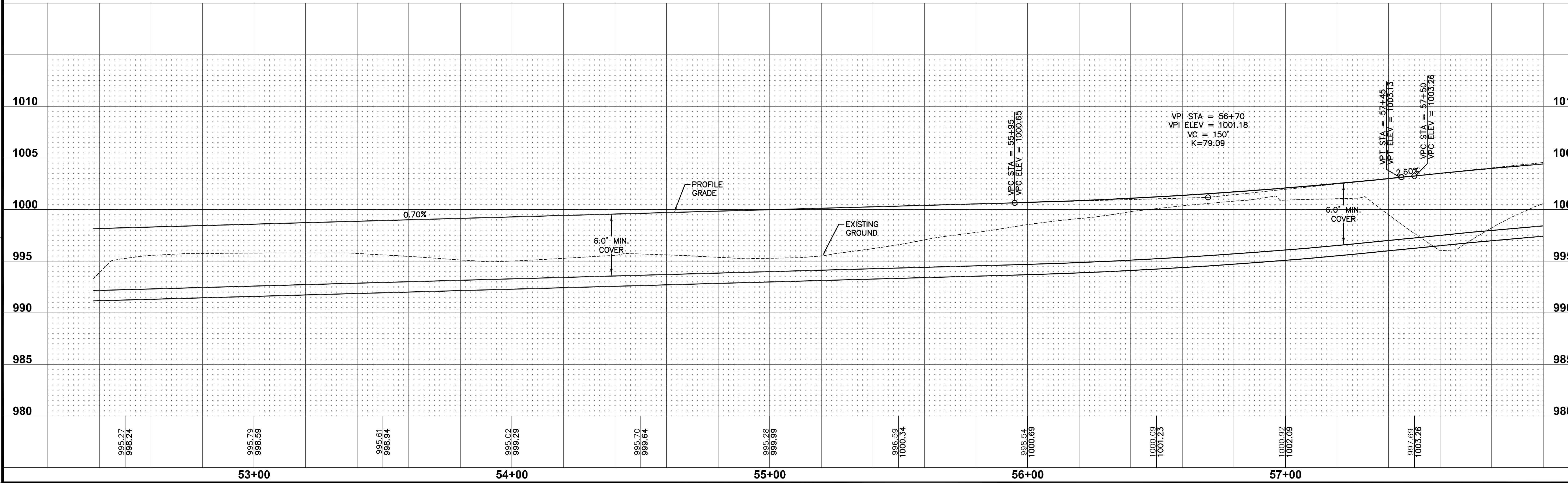
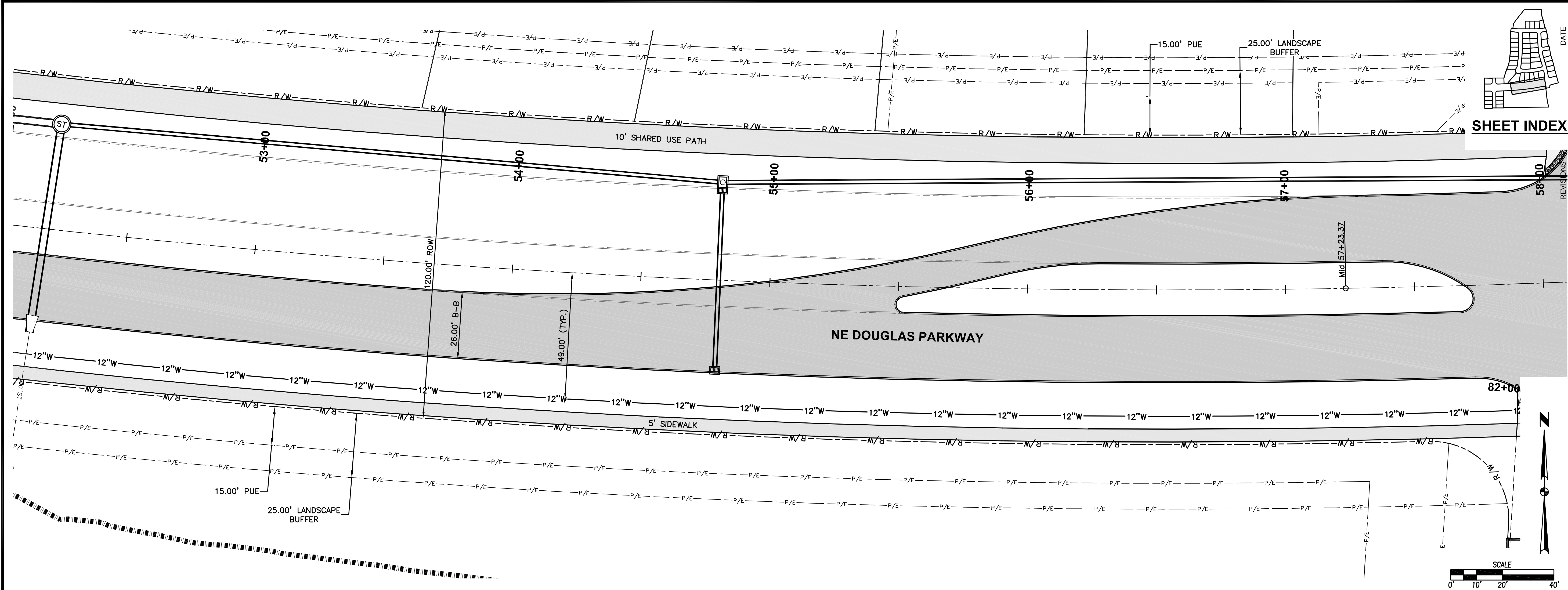
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FOX CREEK ESTATES PLAT 6
WATER MAIN PLAN AND PROFILE
WAUKEE, IOWA

3405 S.E. CROSSROADS DRIVE, SUITE G
GRIMES, IOWA 50111
PHONE: (515) 369-4400 FAX: (515) 369-4410
ENGINEER: EKO
EI: JMM

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PLOTTED BY: JARED MURRAY
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09/02/14
08/04/14
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06/09/14
05/22/14
04/09/14

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SIXTH SUBMITTAL
FIFTH SUBMITTAL
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THIRD SUBMITTAL
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FIRST SUBMITTAL

DATE
12/07/15
09/29/15

REVISIONS
SECOND AS-BUILT SUBMITTAL
FIRST AS-BUILT SUBMITTAL

3405 S.E. CROSSROADS DRIVE, SUITE G
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ENGINEER: EKO
Ei: JMM

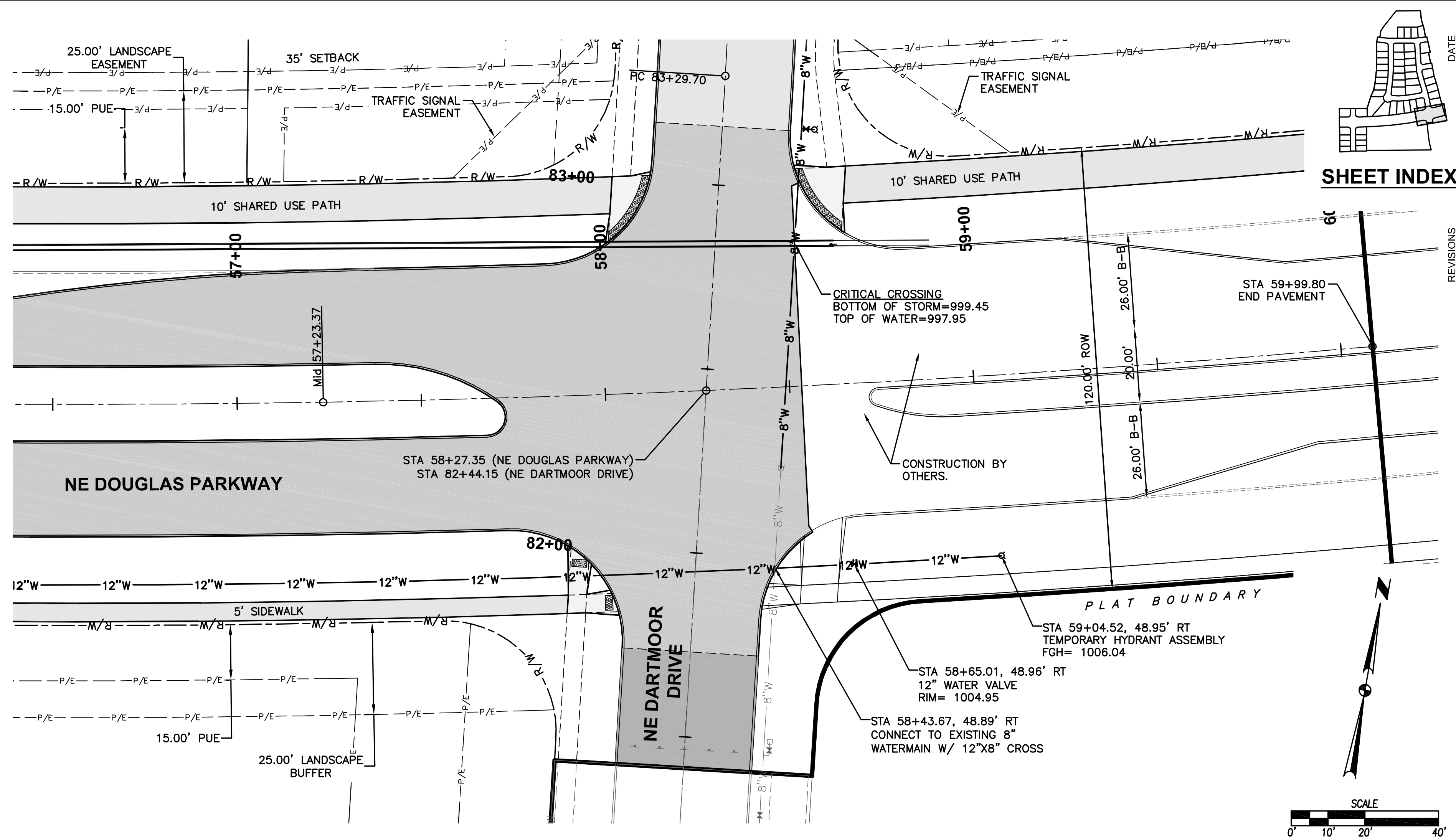
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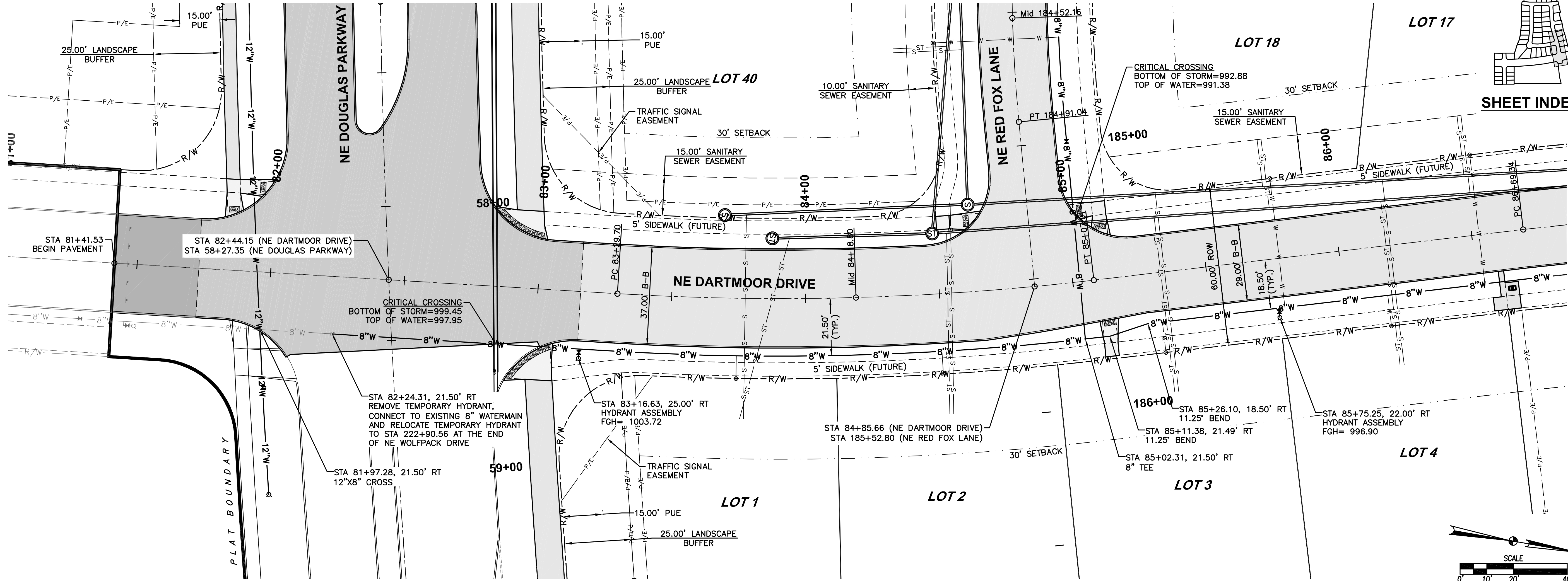
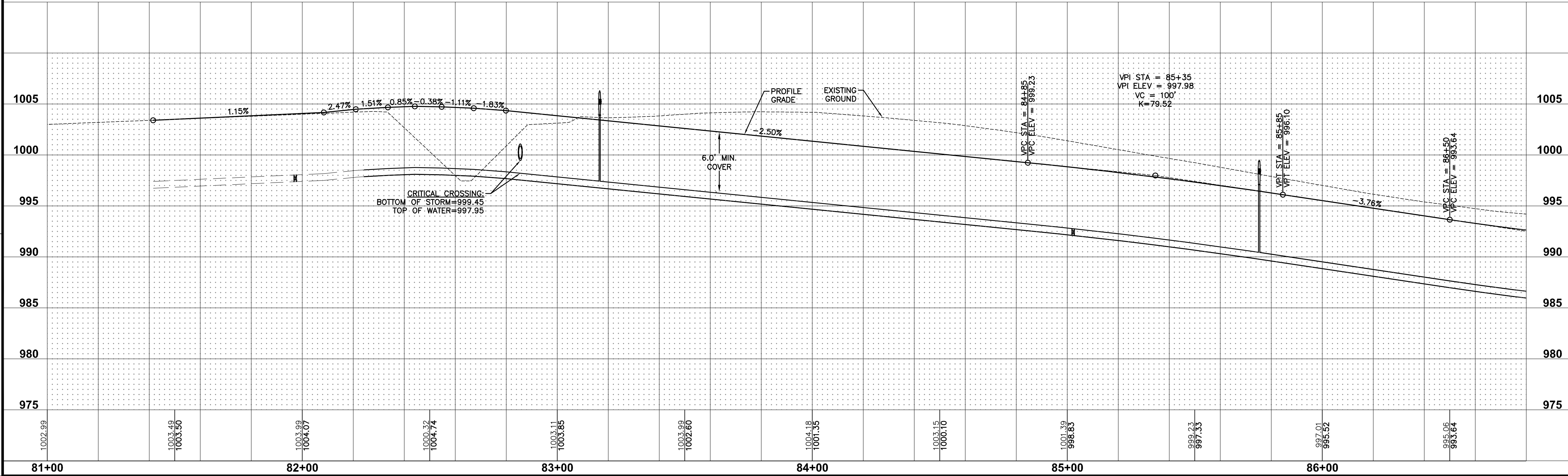
FOX CREEK ESTATES PLAT 6

WATER MAIN PLAN AND PROFILE

WAUKEE, IOWA



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FOX CREEK ESTATES PLAT 6

WATER MAIN PLAN AND PROFILE

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WAUKEE, IOWA

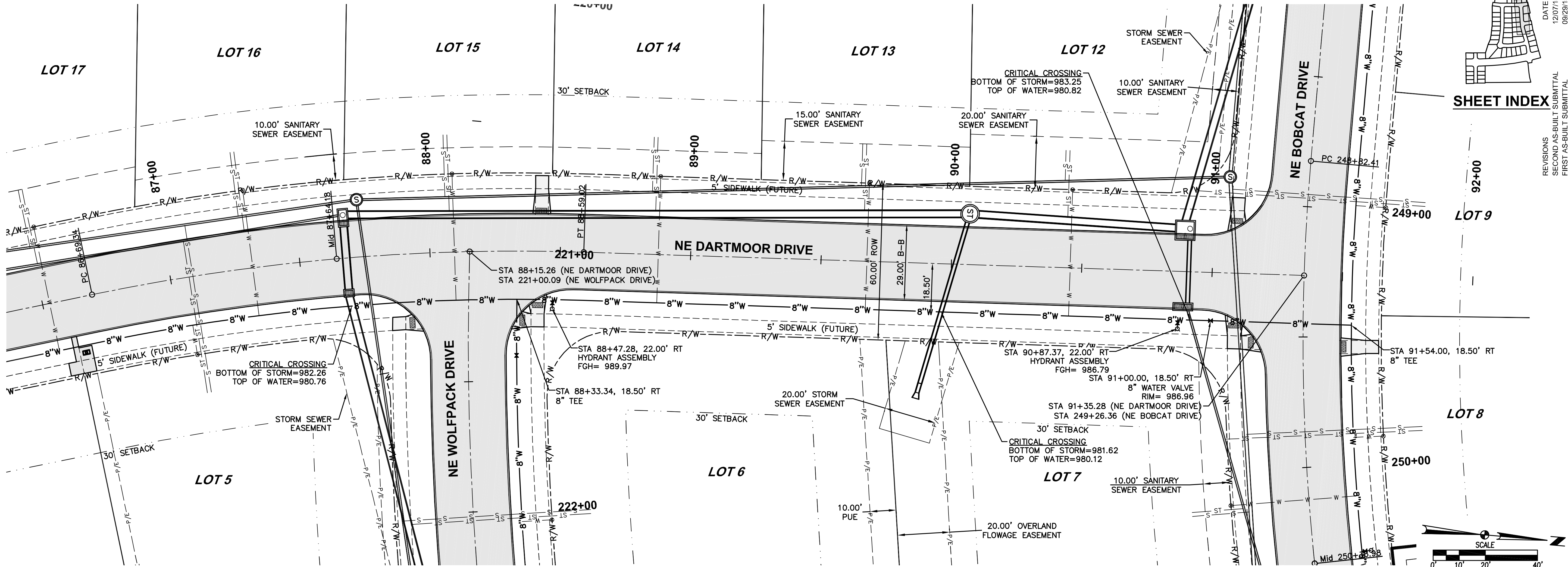
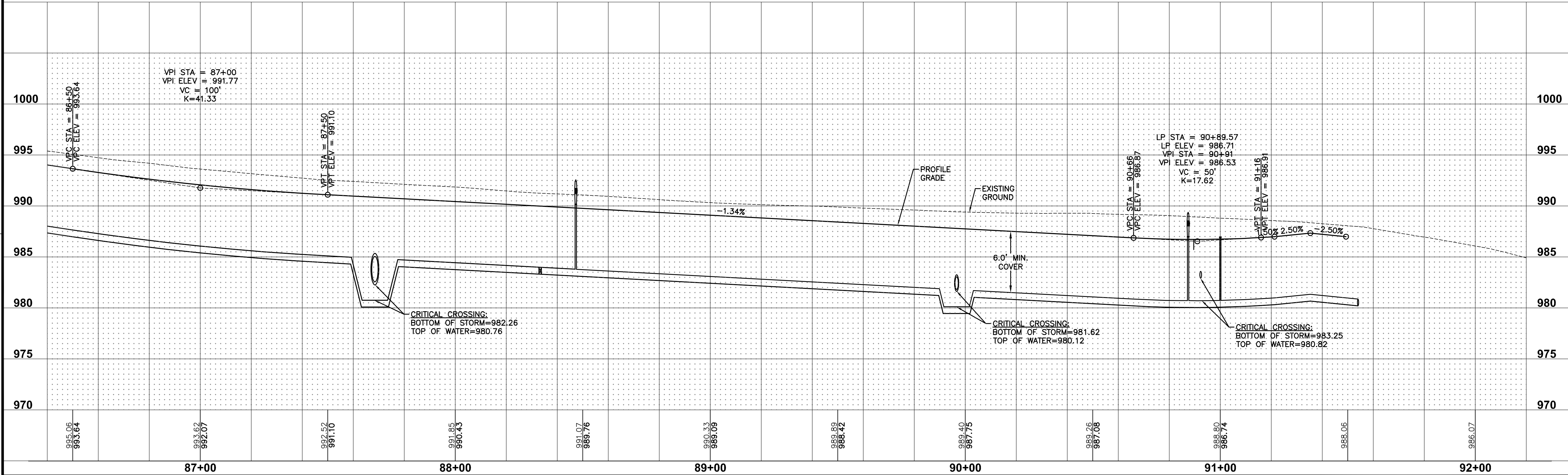
CIVIL DESIGN ADVANTAGE

ENGINEER: EKO

EI: JMM

3405 S.E. CROSSROADS DRIVE, SUITE G
GRIMES, IOWA 50111
PHONE: (515) 369-4400 FAX: (515) 369-4410

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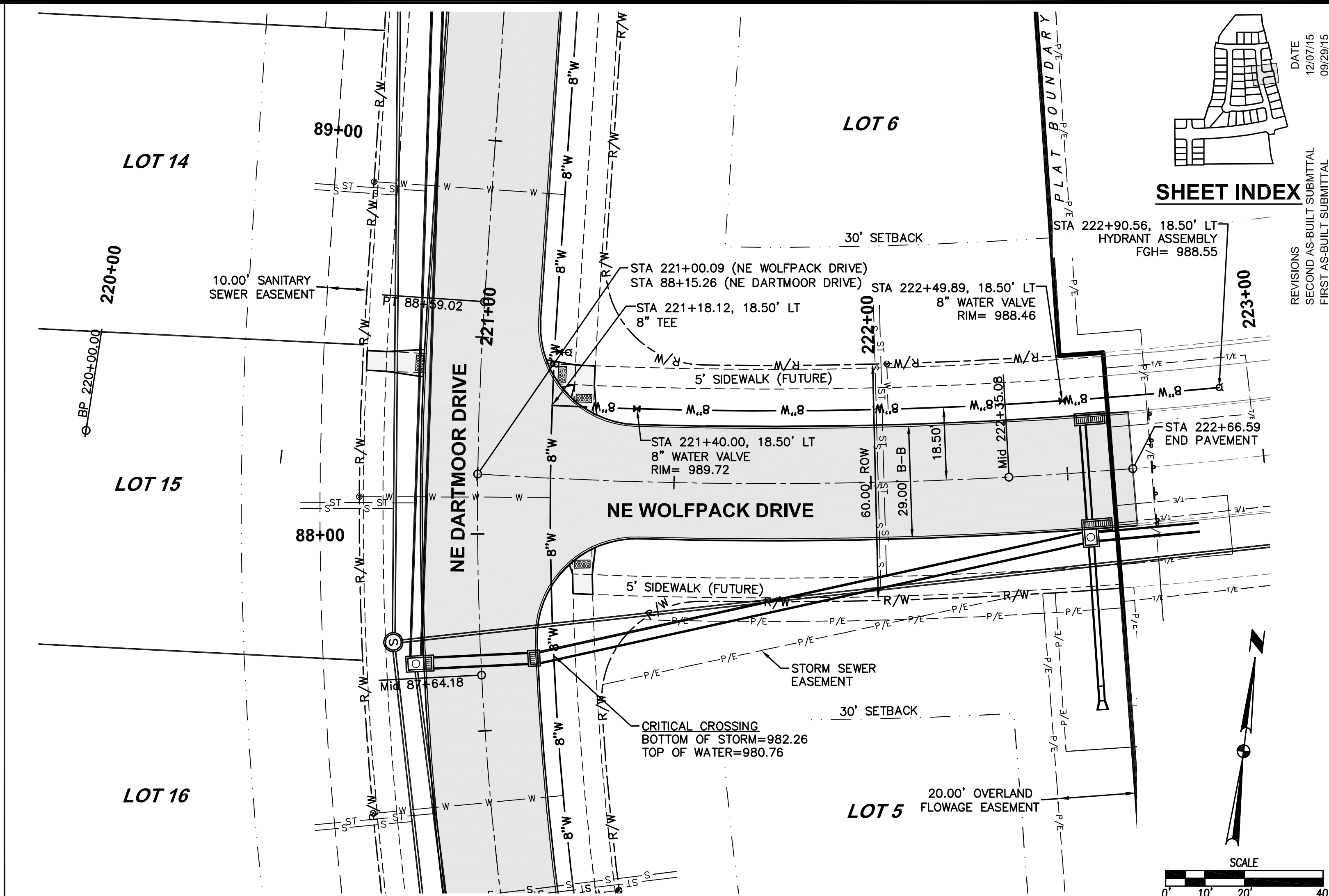
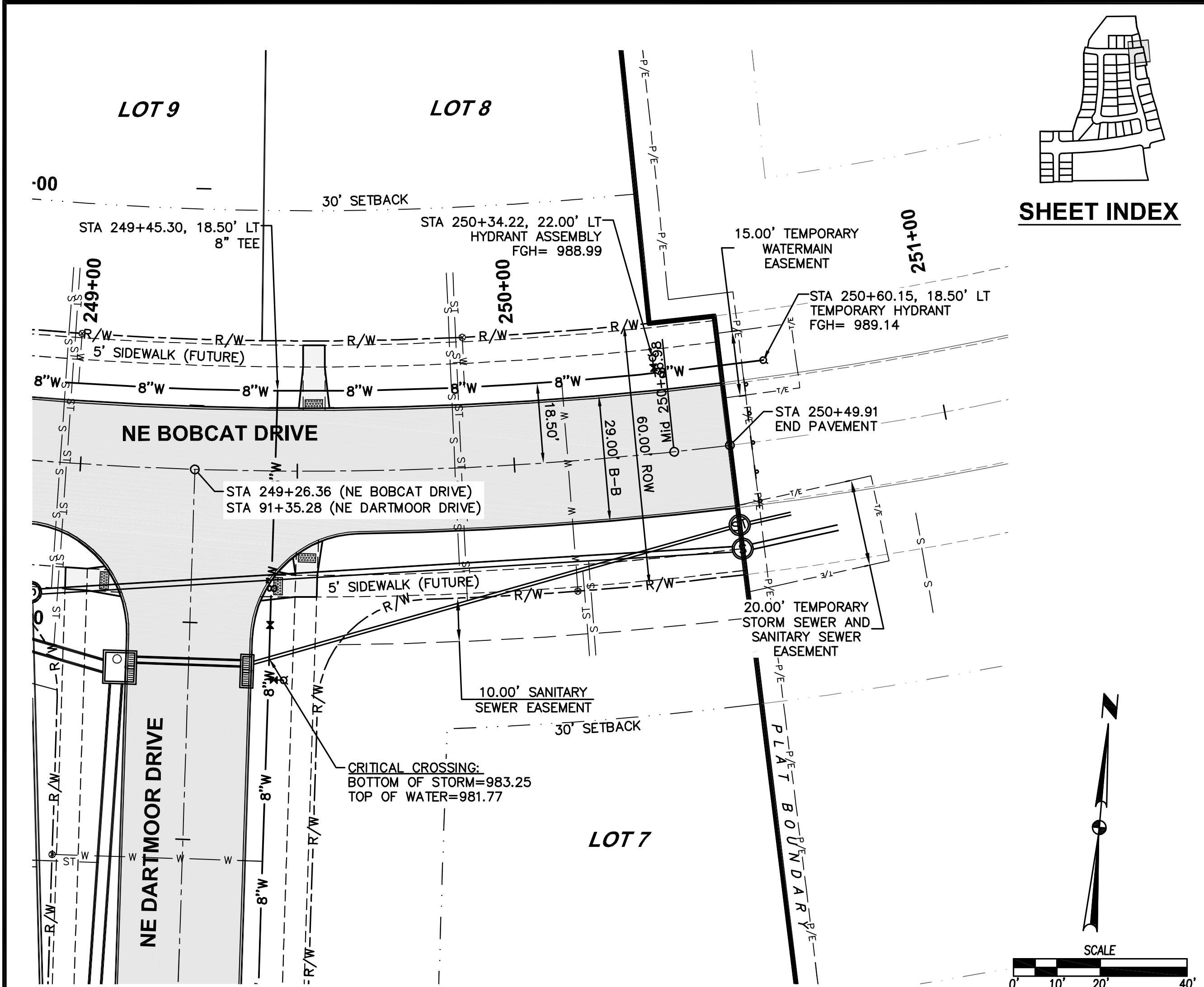
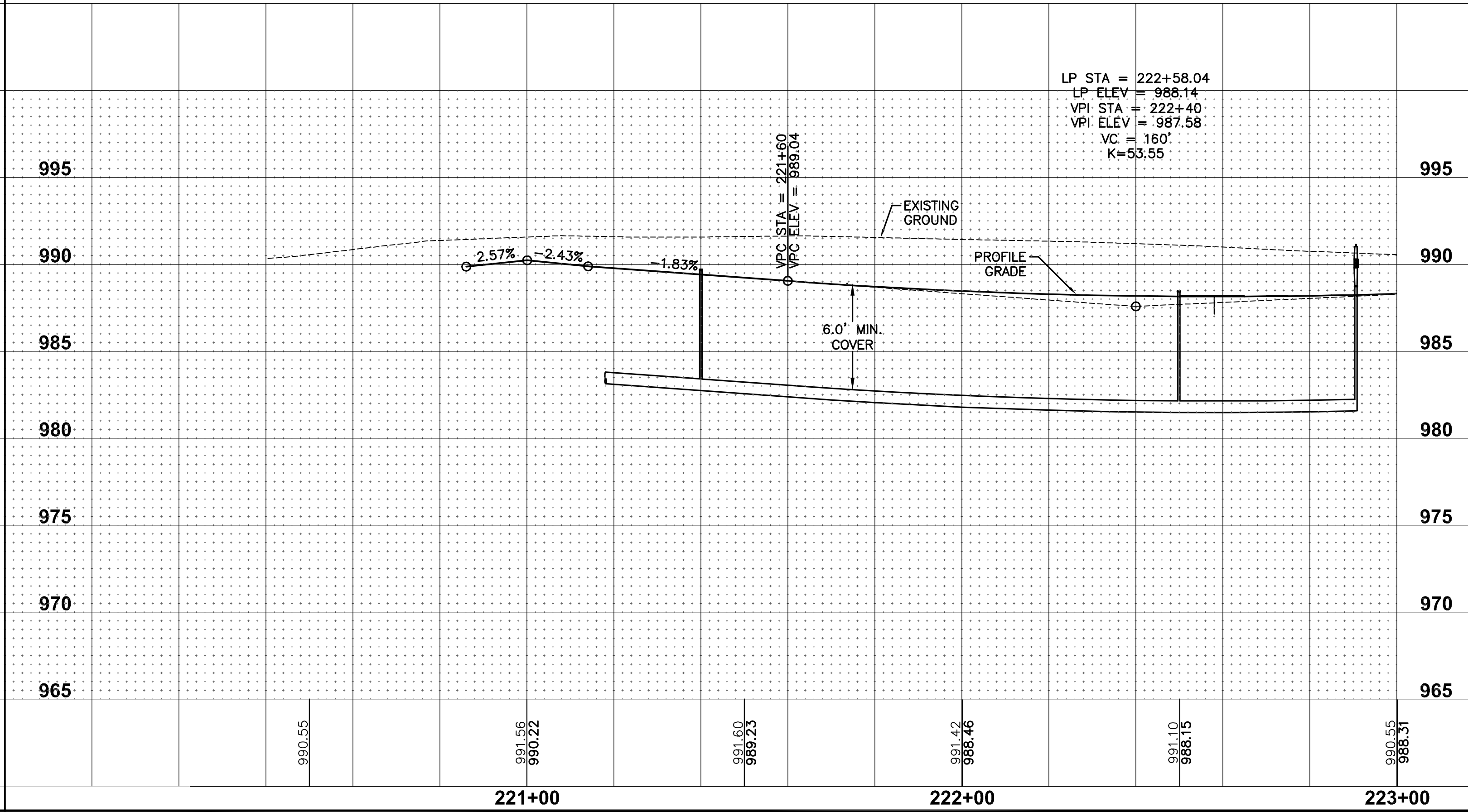
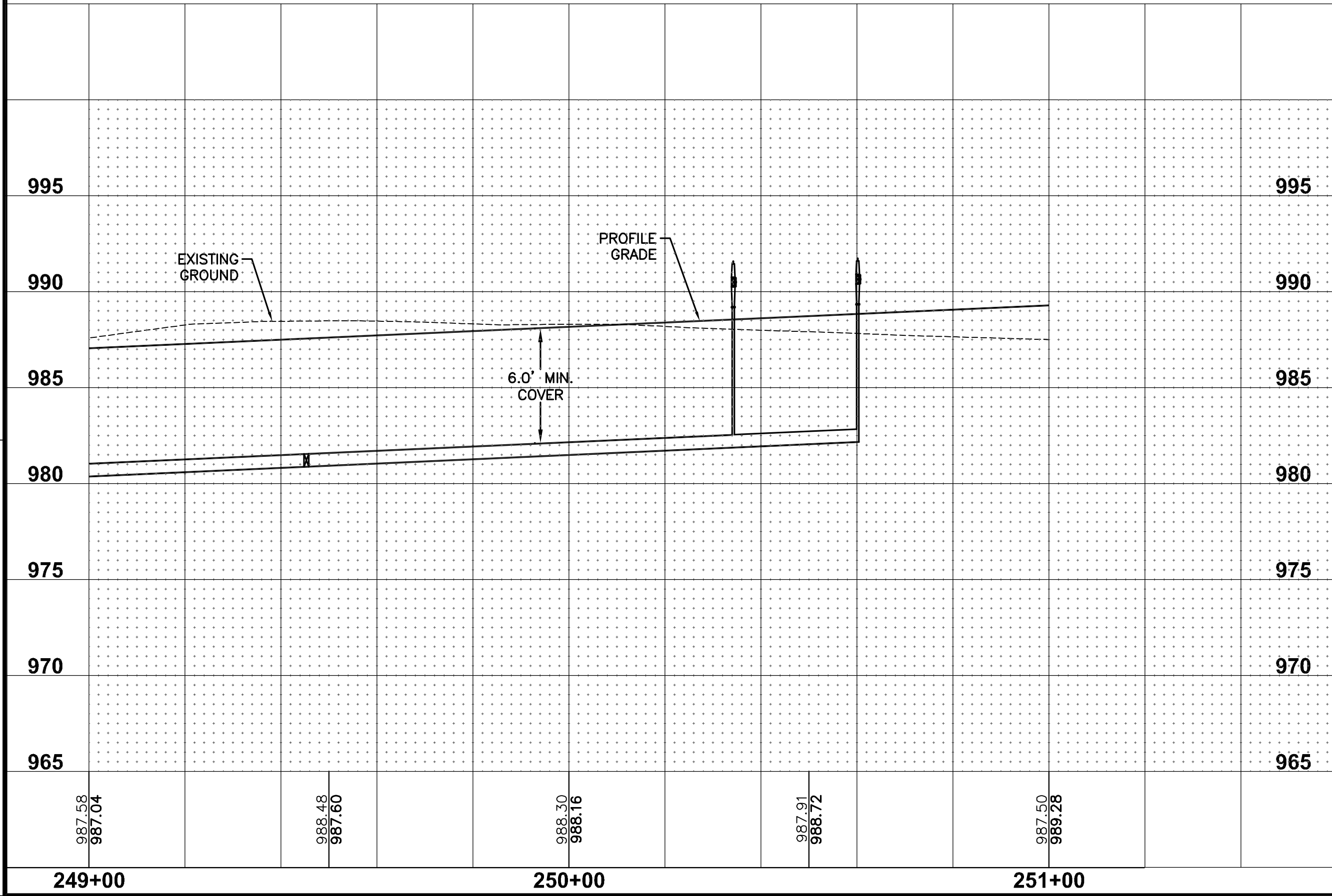
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Ei: JMM



FOX CREEK ESTATES PLAT 6 WATER MAIN PLAN AND PROFILE

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CHECKED BY: JARED MURRAY
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SHEET INDEX

FOX CREEK ESTATES PLAT 6
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1401.026

WAUKEE, IOWA

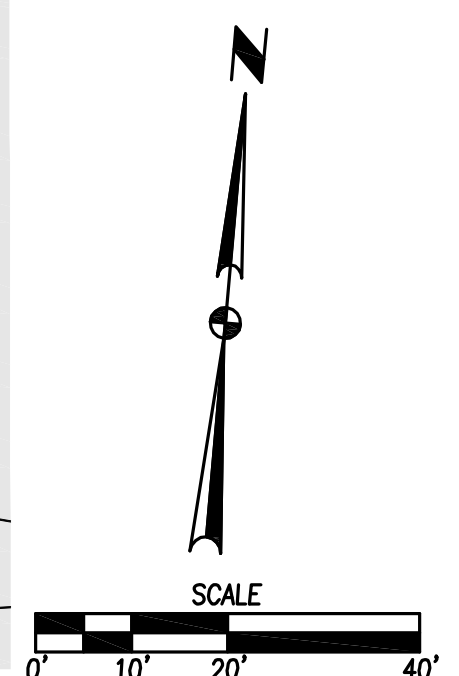
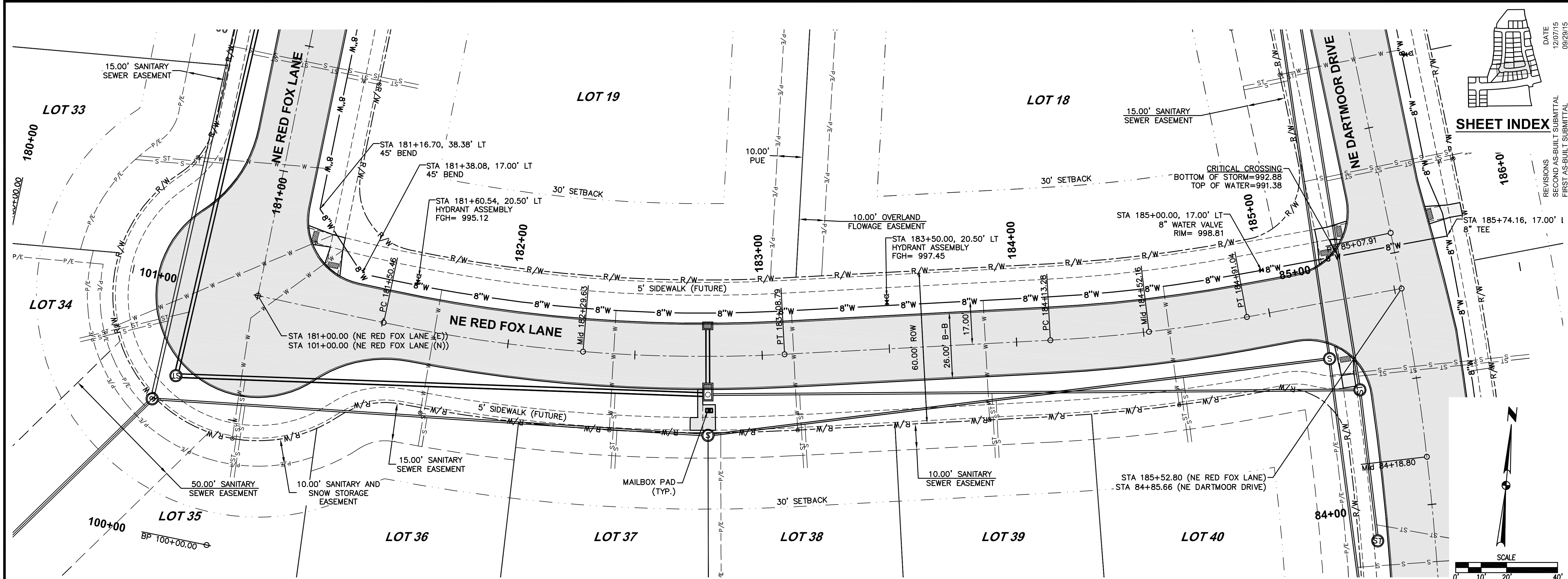
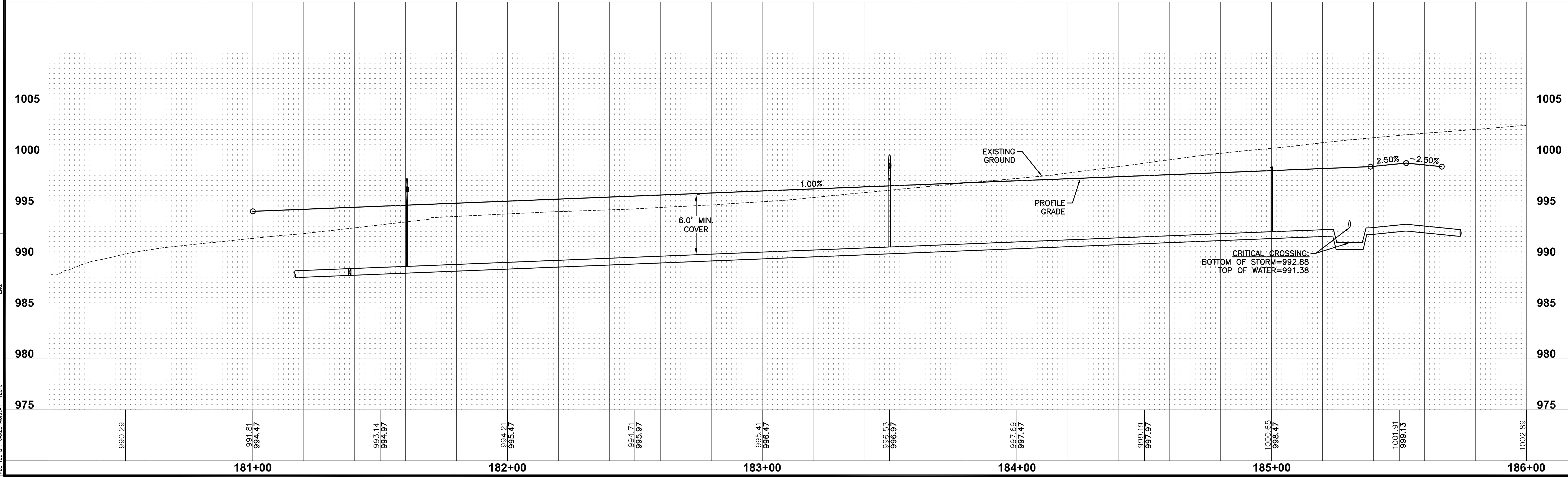
CIVIL DESIGN ADVANTAGE

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Ei: JMM

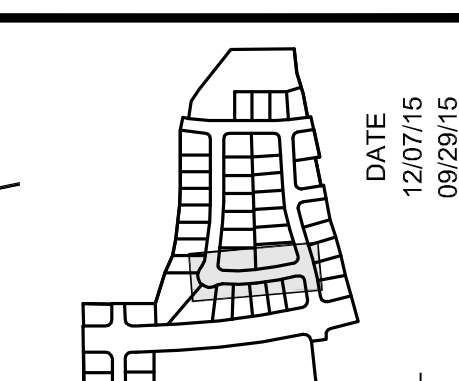
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PLOTTER: J. MURRAY

COMMENTS:
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FIRST SUBMITTAL

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FIRST AS-BUILT SUBMITTAL

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06/27/14
06/09/14
05/22/14
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DATE

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PHONE: (515) 369-4400 FAX: (515) 369-4410

CIVIL DESIGN ADVANTAGE

ENGINEER: EKO
EI: JMM

FOX CREEK ESTATES PLAT 6

WATER MAIN PLAN AND PROFILE

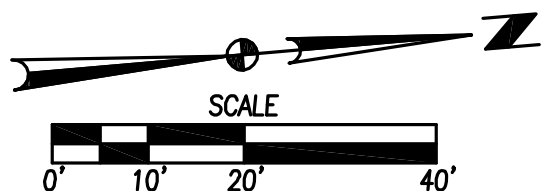
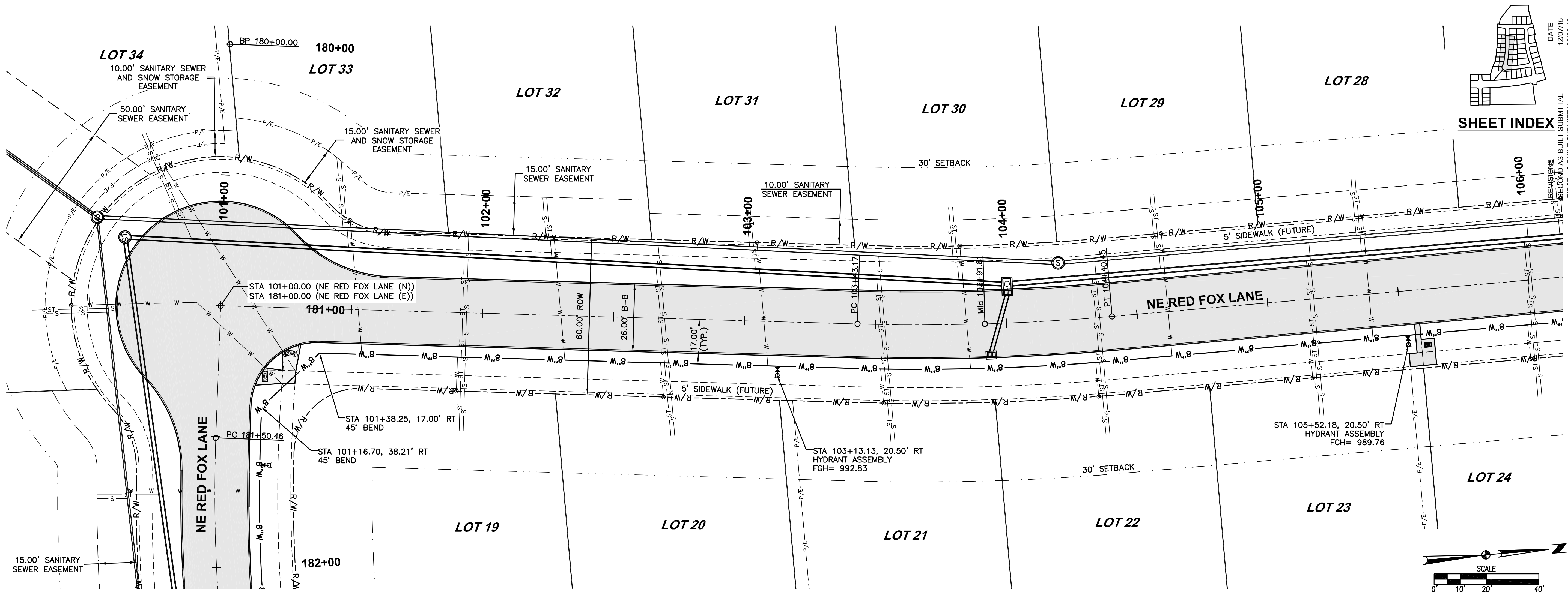
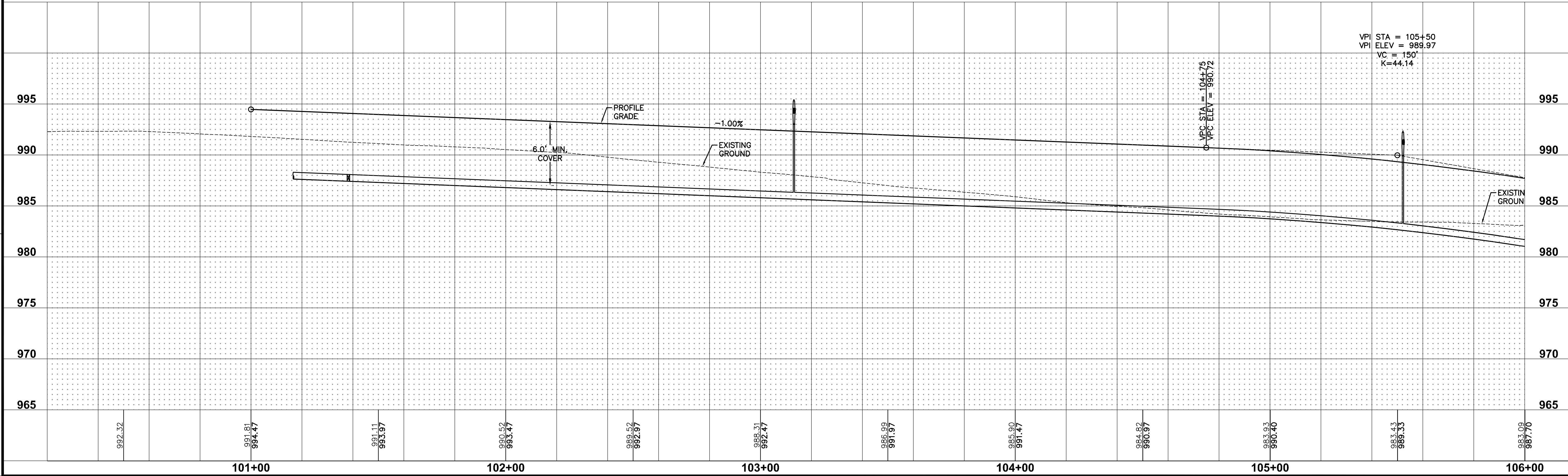
WAUKEE, IOWA

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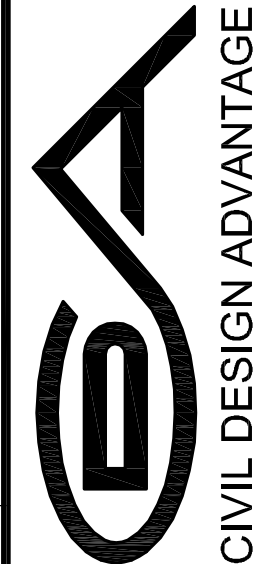
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09/02/14	FIFTH SUBMITTAL
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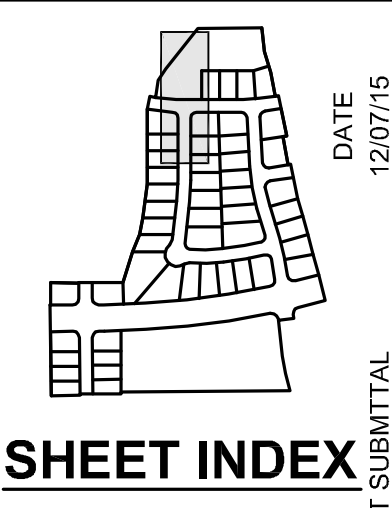
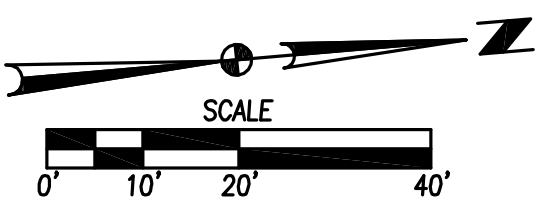
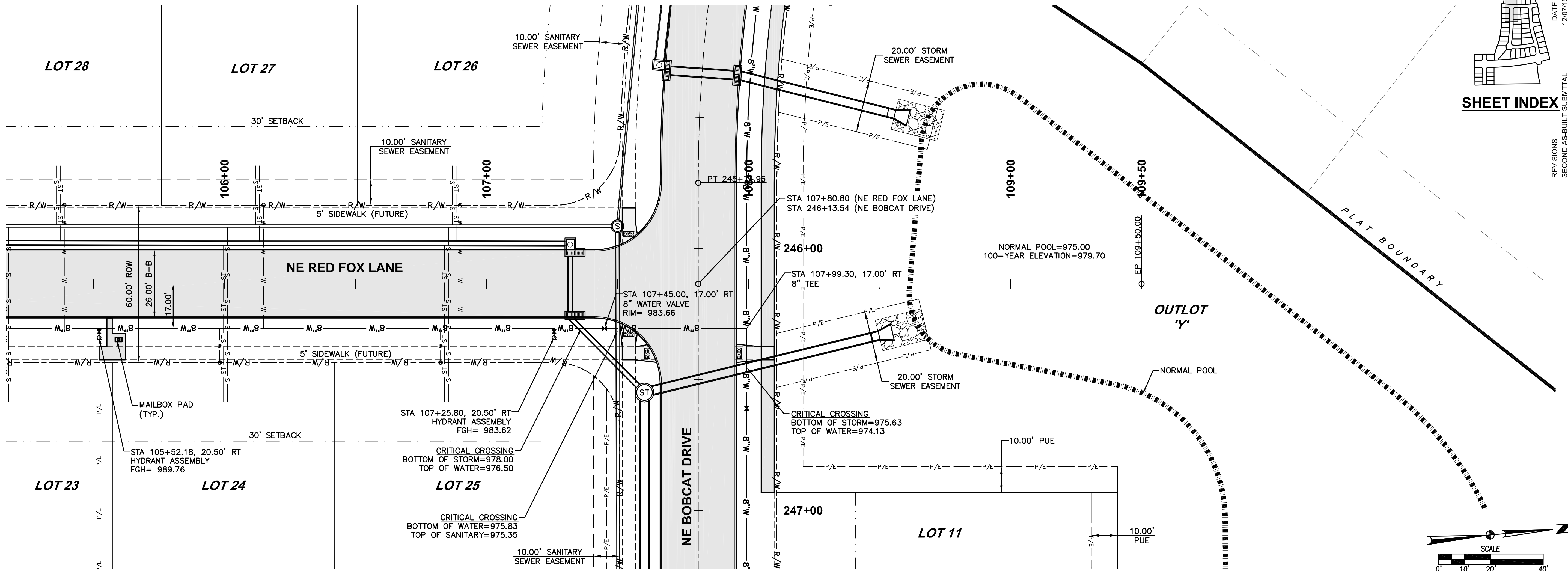
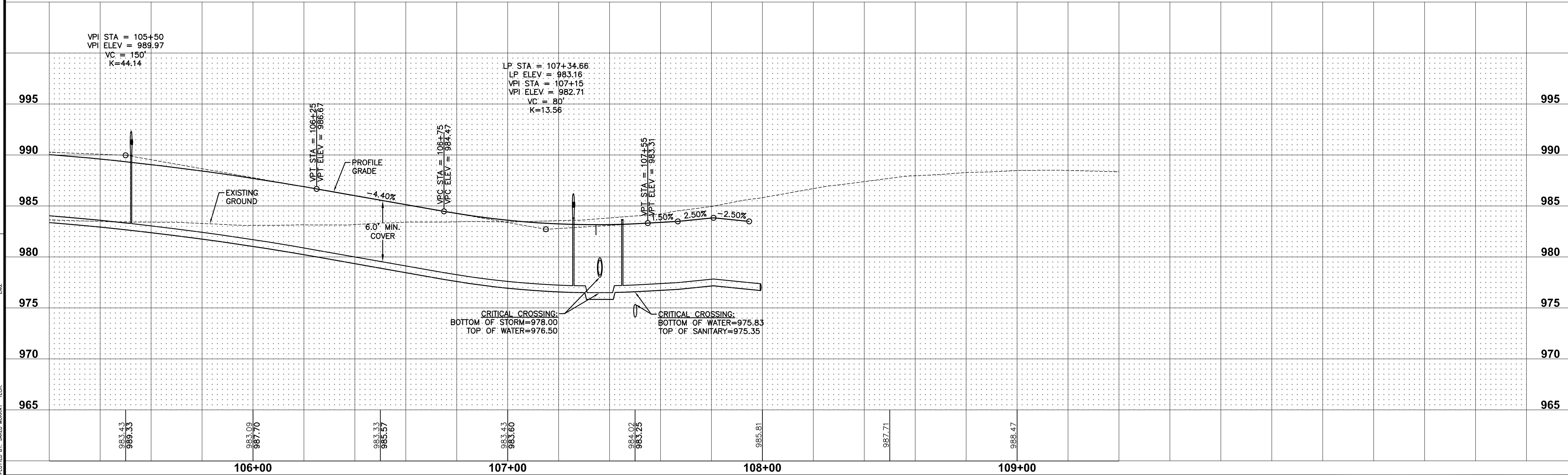
FOX CREEK ESTATES PLAT 6

WATER MAIN PLAN AND PROFILE

3405 S.E. CROSSROADS DRIVE, SUITE G
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ENGINEER: EKO
E.I: JMM

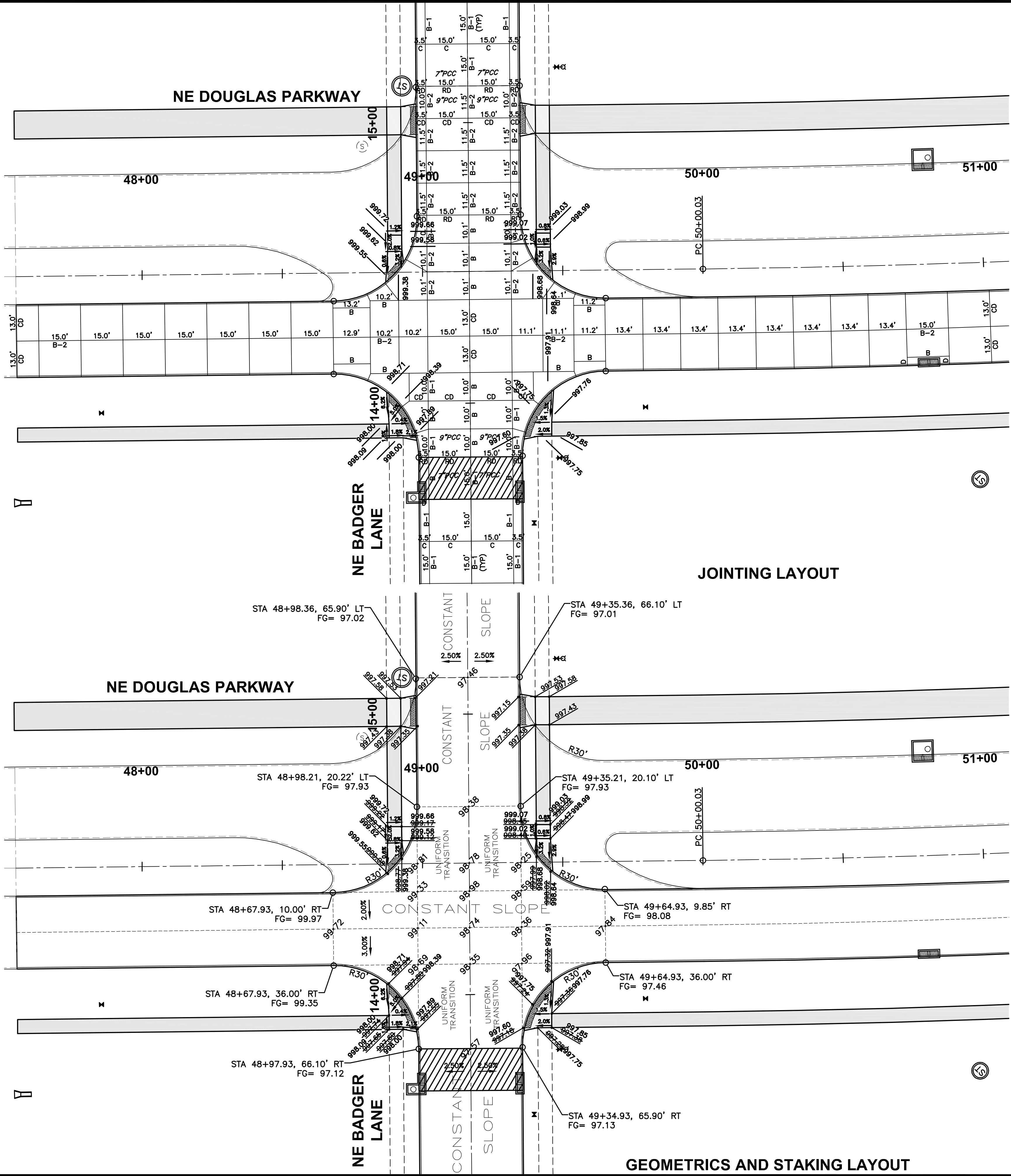


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DATE PLOTTED: 12/4/2015 2:30 PM
PLOTTER: JARED MURRAY
CONVENT: DEC



REVISIONS		DATE
SECOND AS-BUILT SUBMITTAL	12/07/15	
FIRST AS-BUILT SUBMITTAL	09/29/15	
SHEET INDEX		
FINAL SUBMITTAL	09/02/14	
SIXTH SUBMITTAL	08/04/14	
FIFTH SUBMITTAL	06/27/14	
FOURTH SUBMITTAL	06/09/14	
THIRD SUBMITTAL	05/22/14	
SECOND SUBMITTAL	04/22/14	
FIRST SUBMITTAL	04/09/14	

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DATE PLOTTED: 12/7/2015 8:00 AM
PLOTTER: HP DesignJet 500
COMMENTS: EKO



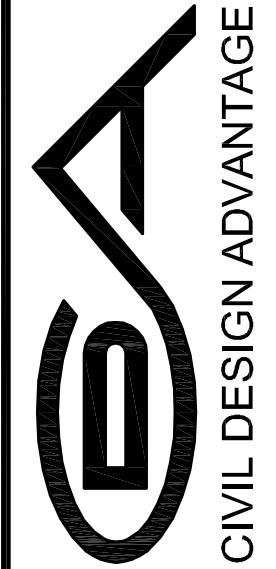
NOTES:

1. ELEVATIONS SHOWN ARE TOP OF SLAB AND/OR FORM GRADE.
2. REFER TO FIGURE 6010.514 FOR GRATE INTAKE BOXOUT FOR PCC PAVEMENT DETAILS.

REVISIONS	DATE
SECOND AS-BUILT SUBMITTAL	12/07/15
FIRST AS-BUILT SUBMITTAL	09/23/15

REVISIONS	DATE
FINAL SUBMITTAL	09/02/14
SIXTH SUBMITTAL	08/04/14
FIFTH SUBMITTAL	06/27/14
FOURTH SUBMITTAL	06/09/14
THIRD SUBMITTAL	05/22/14
SECOND SUBMITTAL	04/22/14
FIRST SUBMITTAL	04/09/14

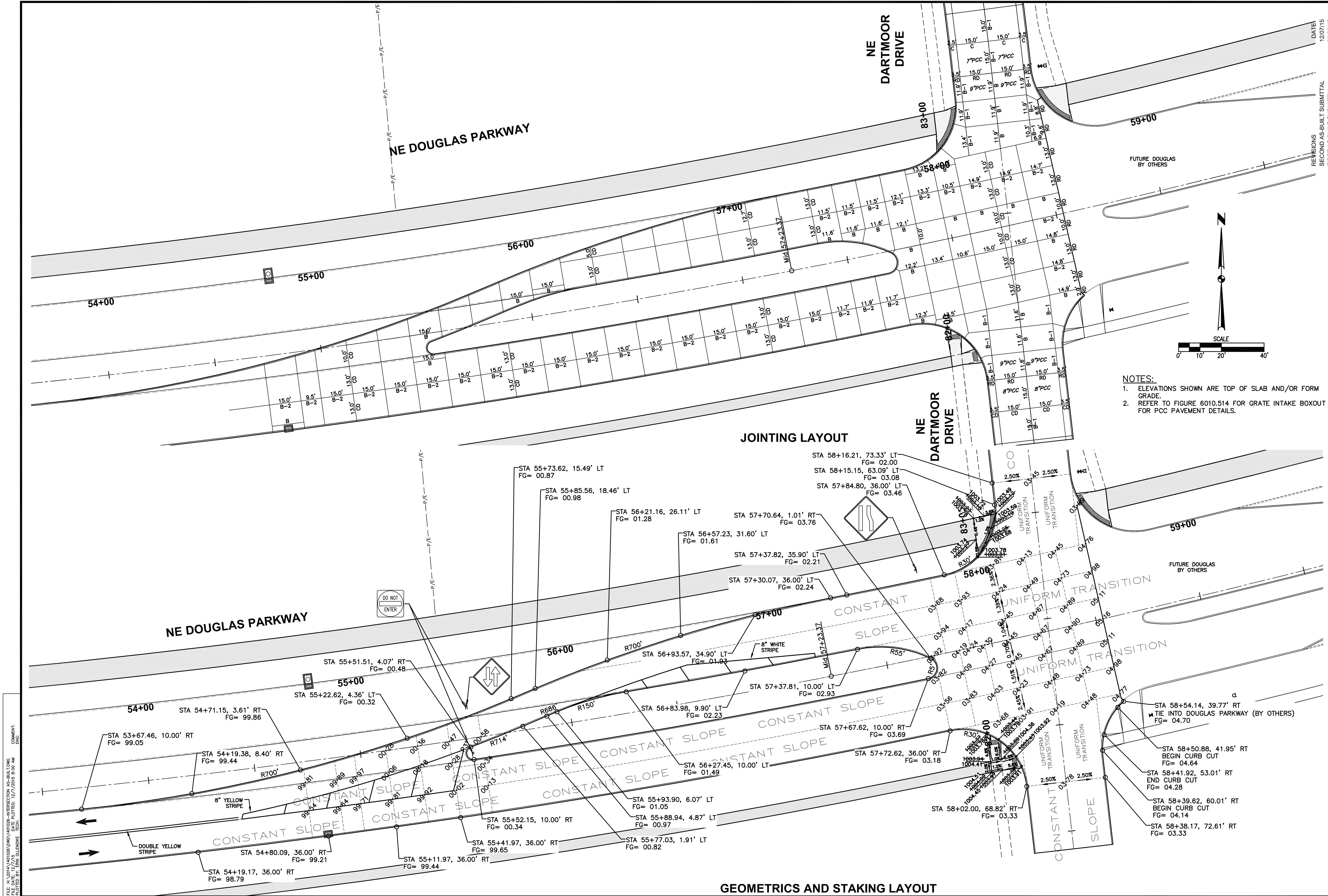
3405 S.E. CROSSROADS DRIVE, SUITE G
GRIMES, IOWA 50111
PHONE: (515) 369-4400 FAX: (515) 369-4410
ENGINEER: EKO
Ei: JMM



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FOX CREEK ESTATES PLAT 6
INTERSECTION DETAILS

FILE: H:\2014\140028\140028-INTERSECTION AS-BUILDING
CONVENT: PLOTTED: 12/7/2015 8:00 AM
PLOTTER: HPGL-GLA0000
SCALE: 1"=40'



- NOTES:
- ELEVATIONS SHOWN ARE TOP OF SLAB AND/OR FORM GRADE.
 - REFER TO FIGURE 6010.514 FOR GRATE INTAKE BOXOUT FOR PCC PAVEMENT DETAILS.

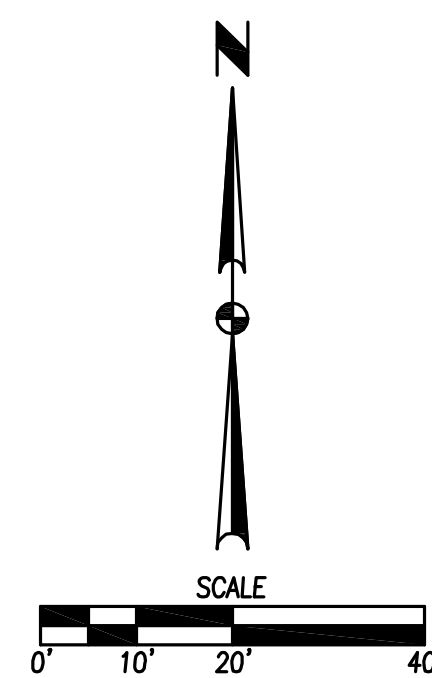
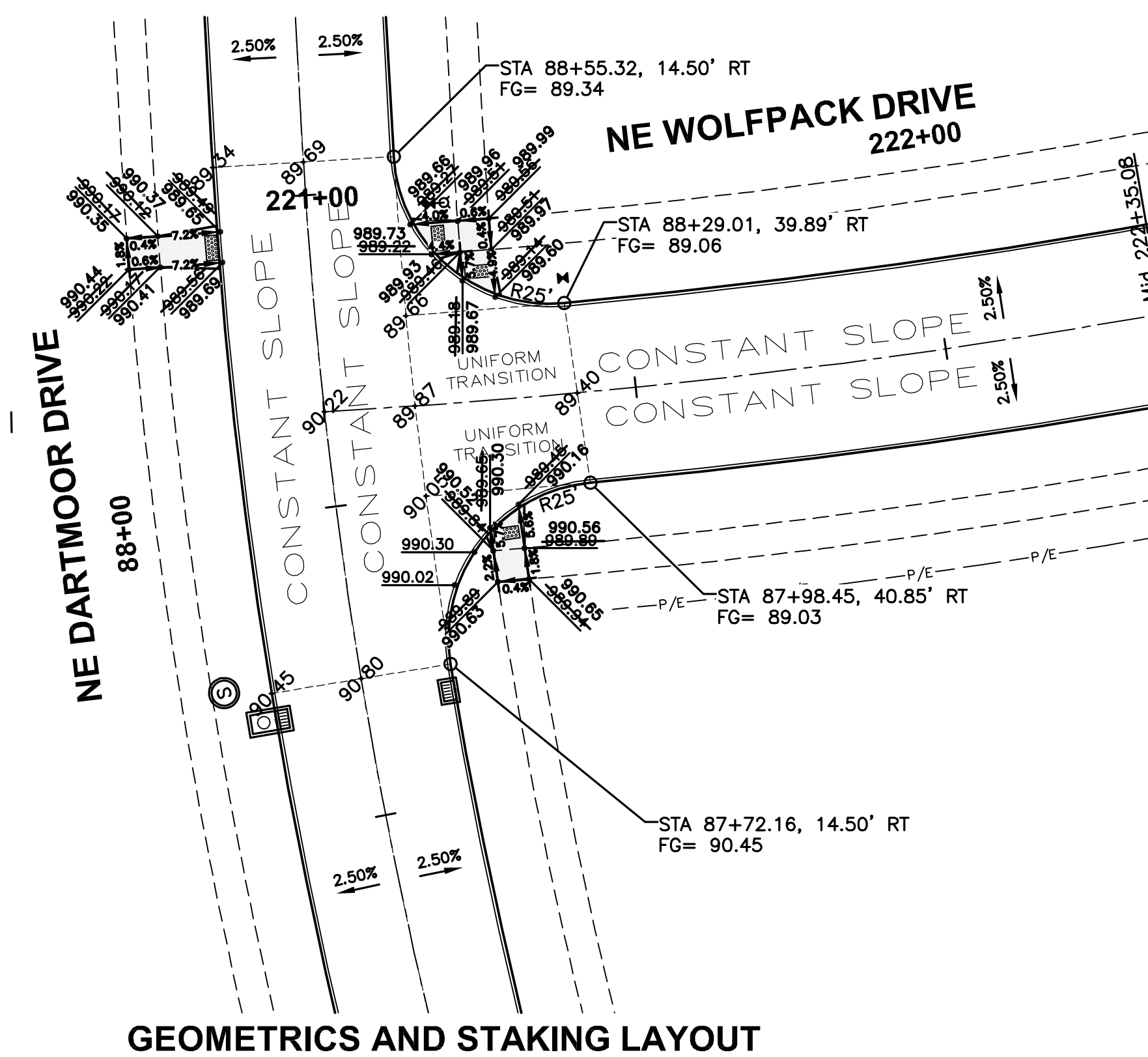
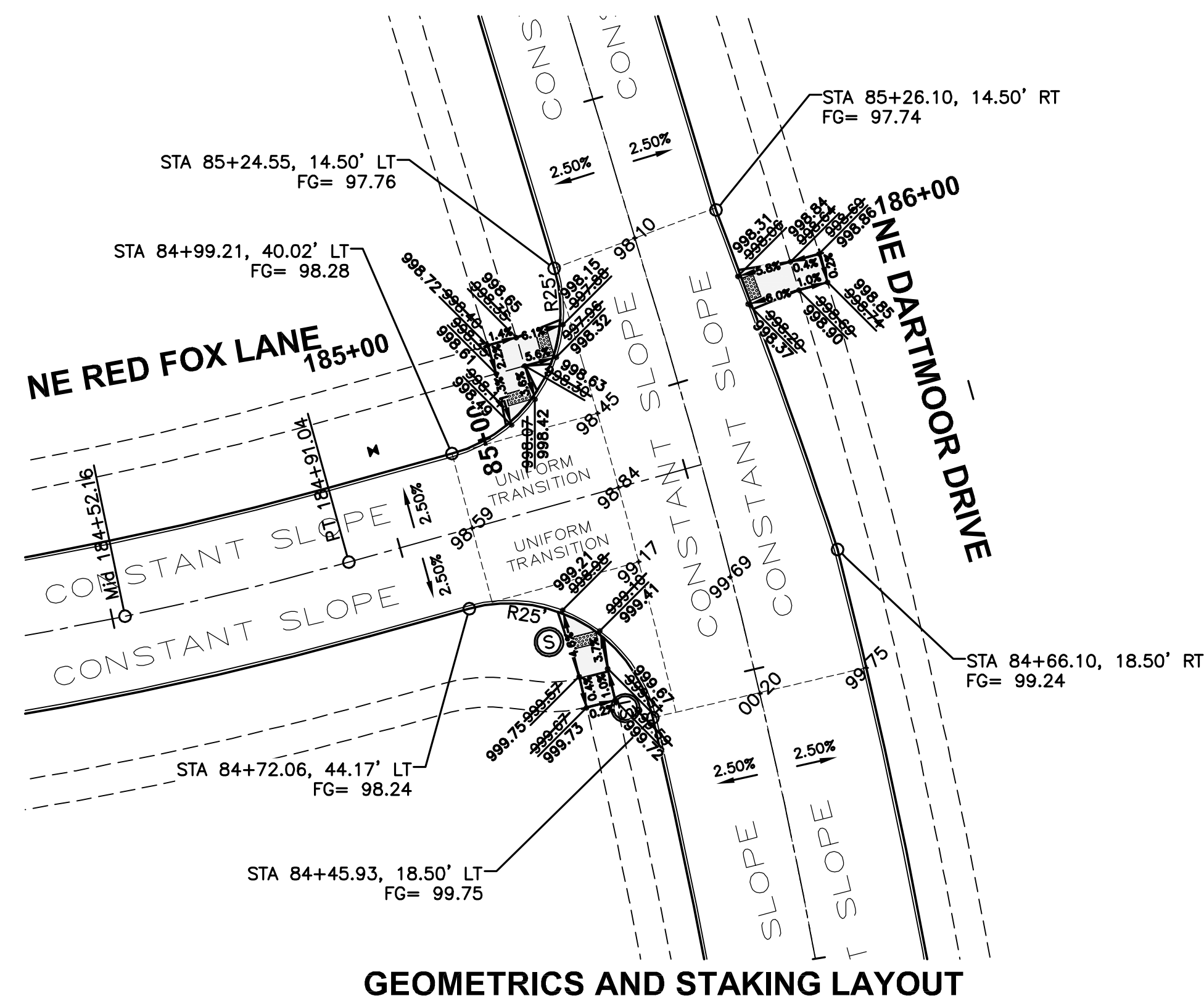
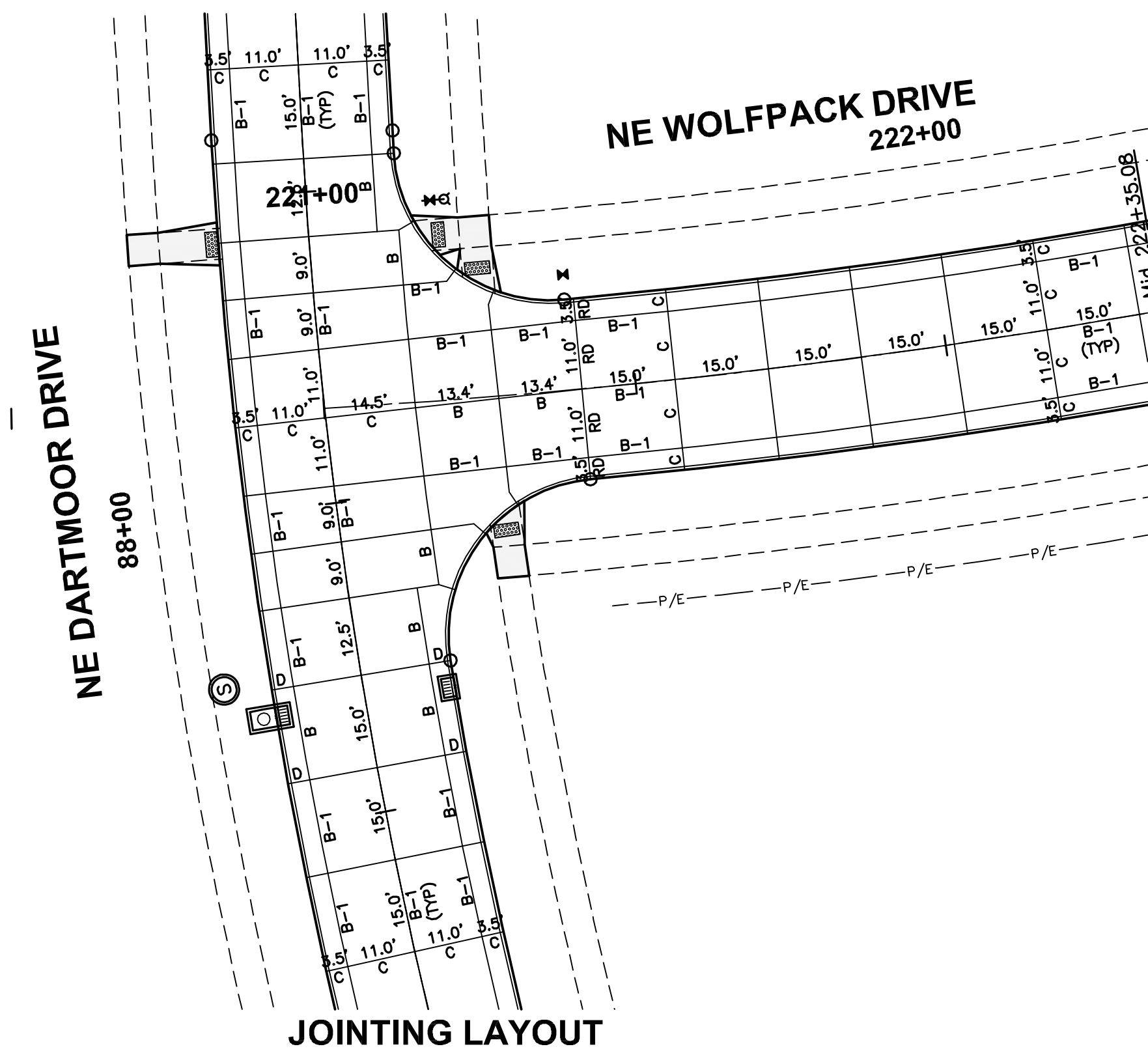
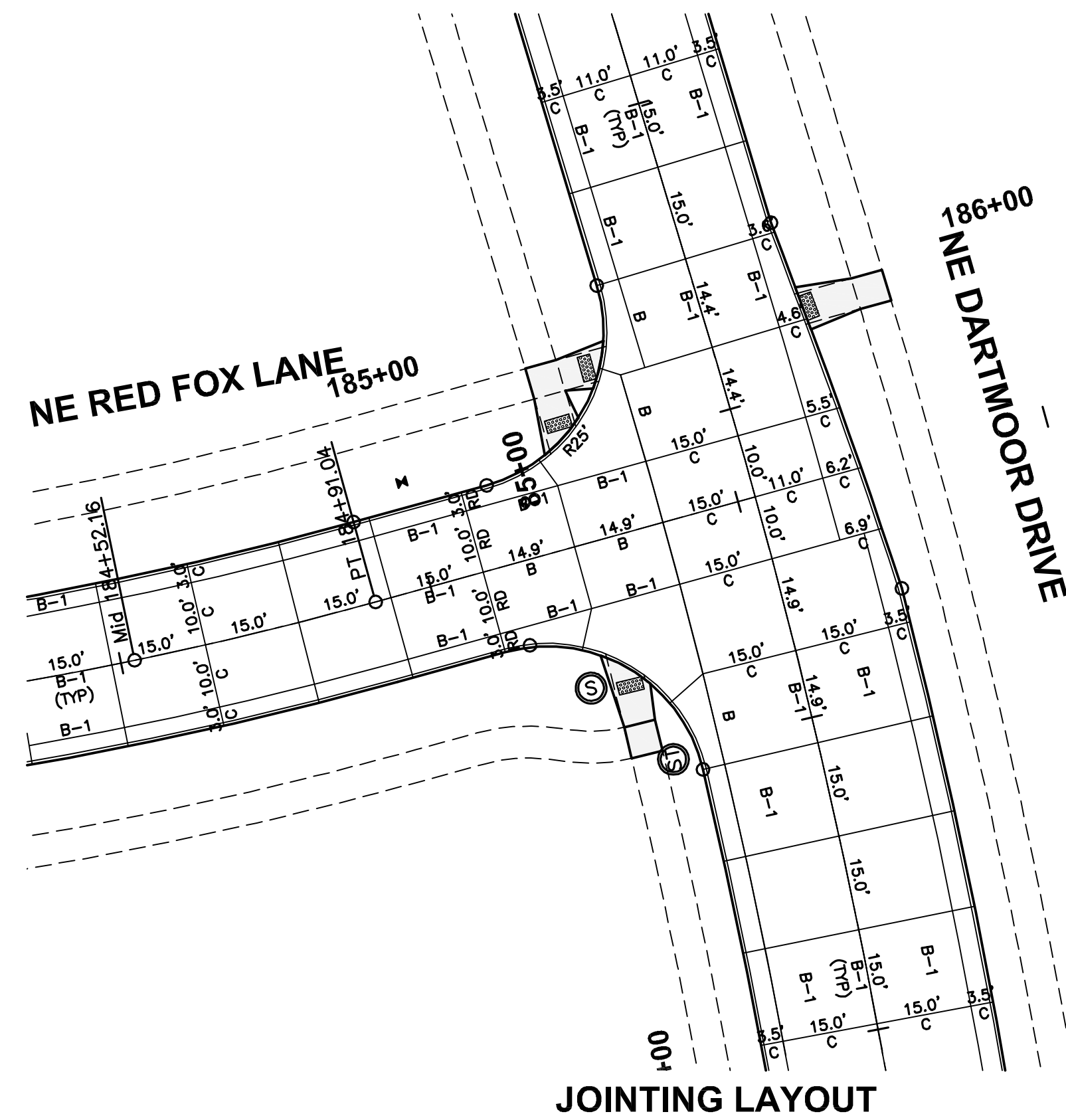
FOX CREEK ESTATES PLAT 6
INTERSECTION DETAILS

38/42
1401.026

CIVIL DESIGN ADVANTAGE
WAUKEE, IOWA

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ENGINEER: EKO
EI: JMM

DATE
09/02/14
08/04/14
06/27/14
06/09/14
05/22/14
04/22/14
04/09/14
REVISIONS
FINAL SUBMITTAL
SIXTH SUBMITTAL
FIFTH SUBMITTAL
FOURTH SUBMITTAL
THIRD SUBMITTAL
SECOND SUBMITTAL
FIRST SUBMITTAL
SECOND AS-BUILT SUBMITTAL
FIRST AS-BUILT SUBMITTAL
12/07/15
09/23/15

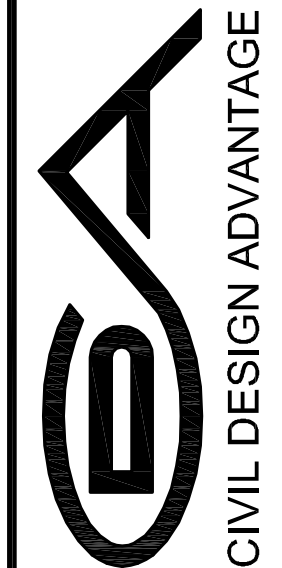


- NOTES:
1. ELEVATIONS SHOWN ARE TOP OF SLAB AND/OR FORM GRADE.
 2. REFER TO FIGURE 6010.514 FOR GRATE INTAKE BOXOUT FOR PCC PAVEMENT DETAILS.

REVISIONS	DATE
SECOND AS-BUILT SUBMITTAL	12/07/15
FIRST AS-BUILT SUBMITTAL	09/29/15
FIRST SUBMITTAL	09/02/14
SIXTH SUBMITTAL	08/04/14
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FOURTH SUBMITTAL	06/09/14
THIRD SUBMITTAL	05/22/14
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FIRST SUBMITTAL	04/09/14

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ENGINEER: EKO	EI: JMM
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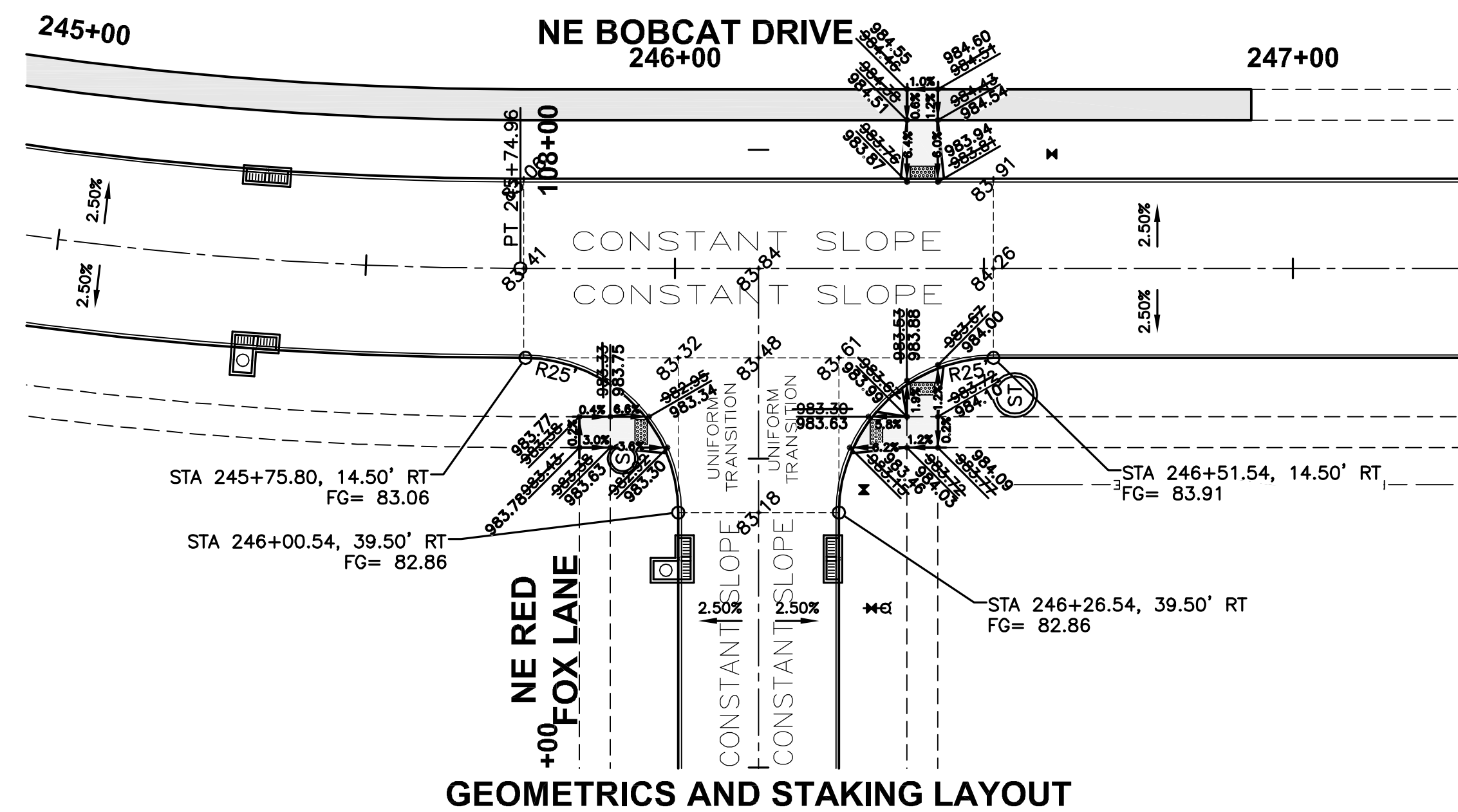
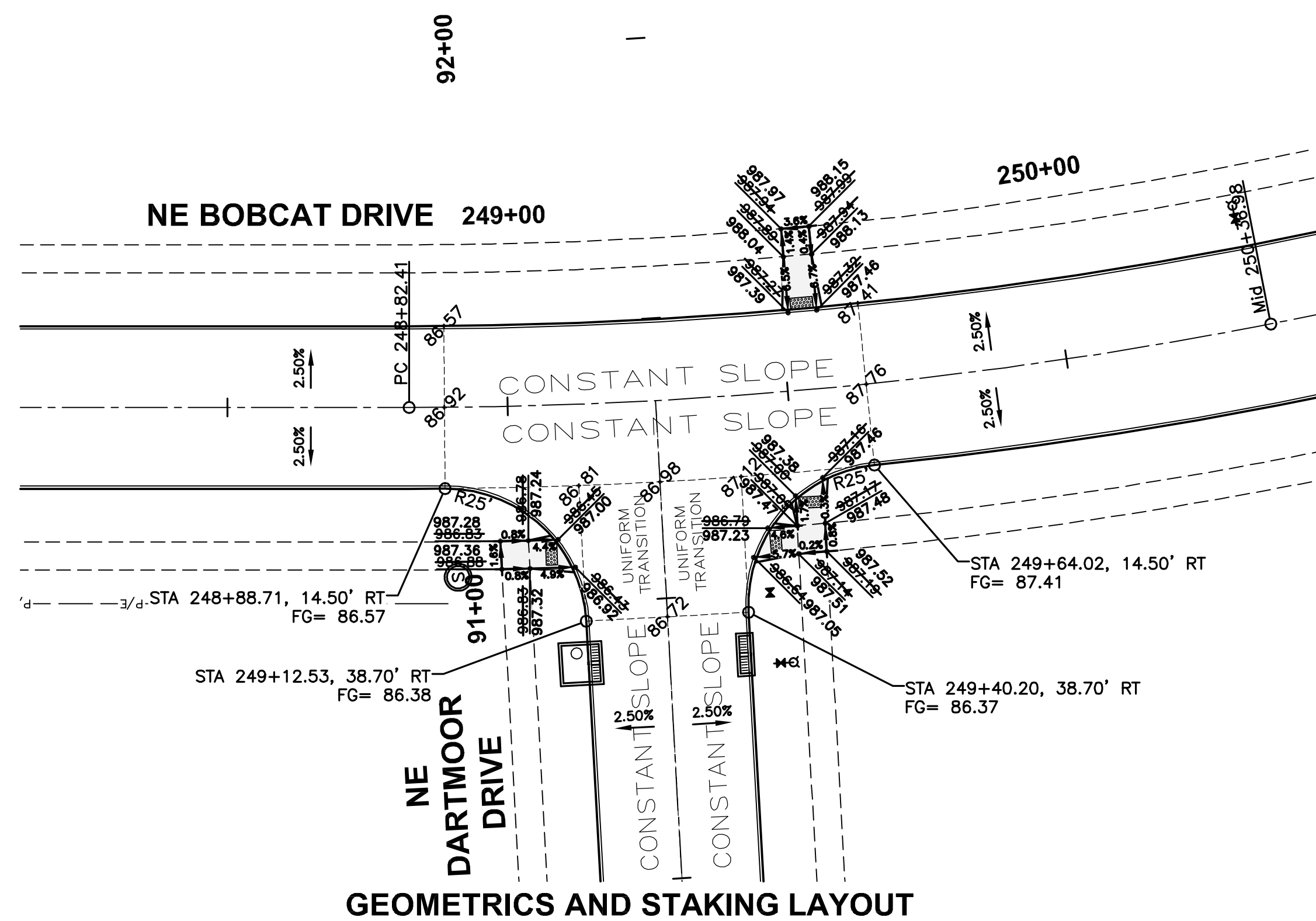
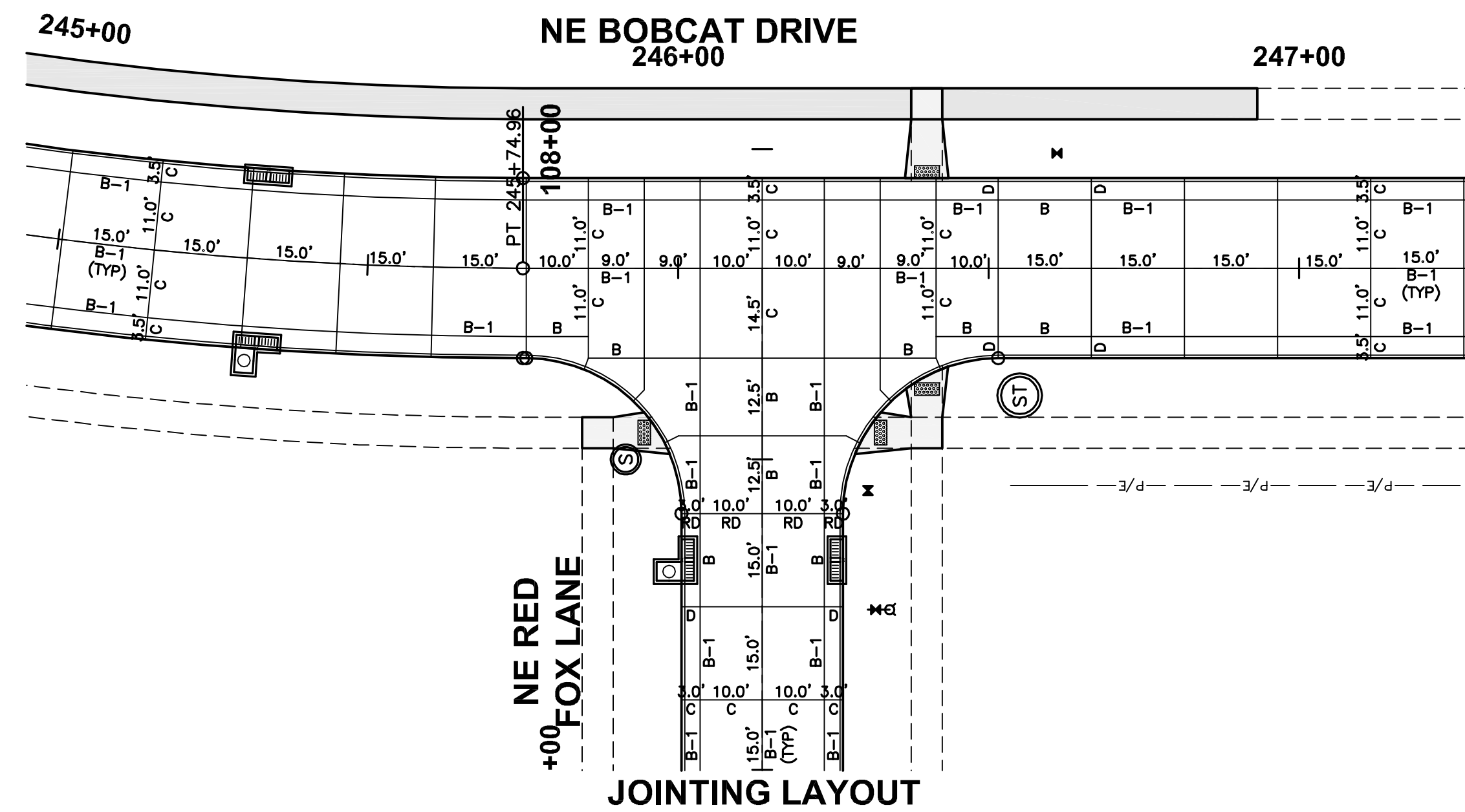
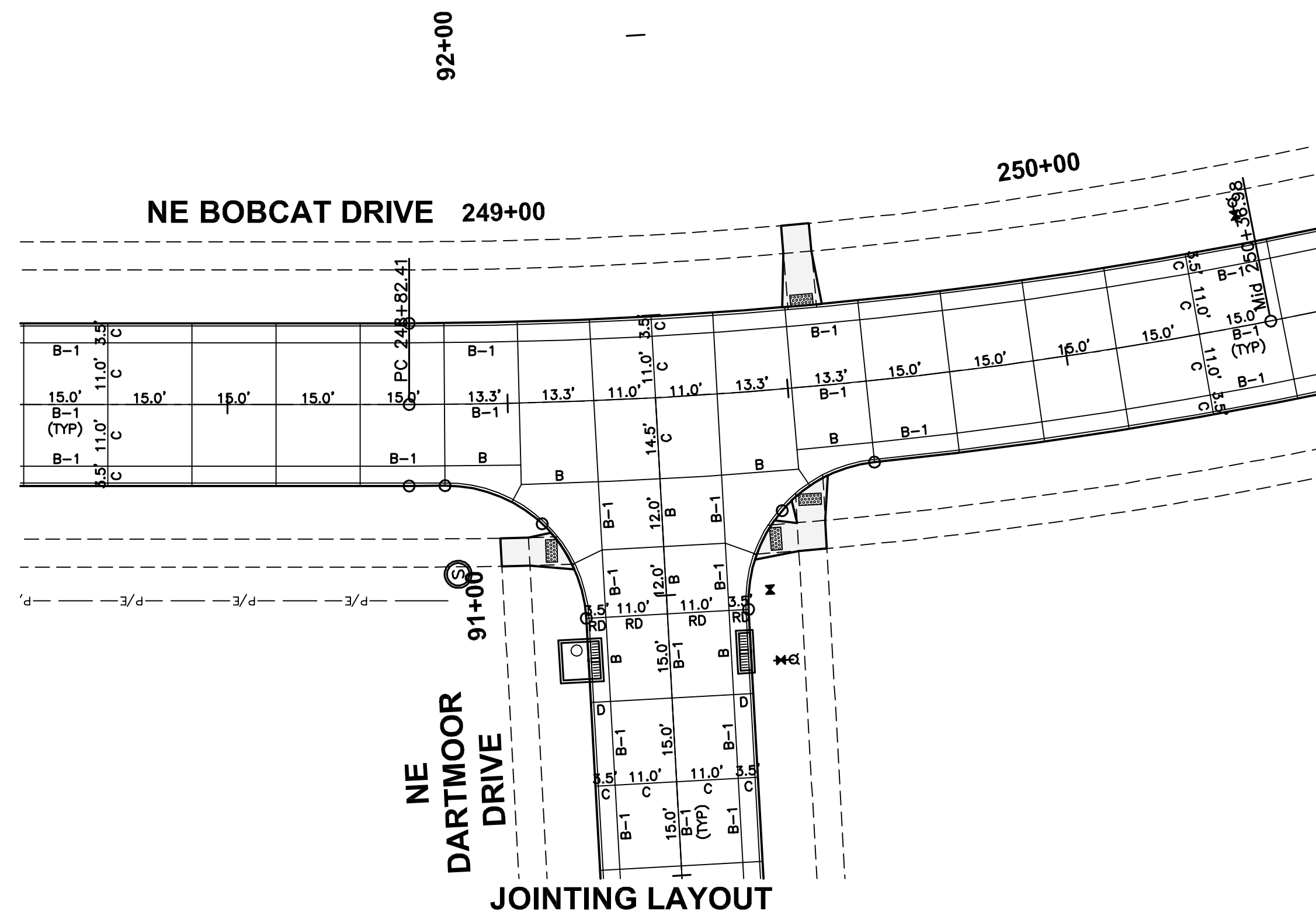
WAUKEE, IOWA

FOX CREEK ESTATES PLAT 6
INTERSECTION DETAILS
WAUKEE, IOWA

INTERSECTION DETAILS

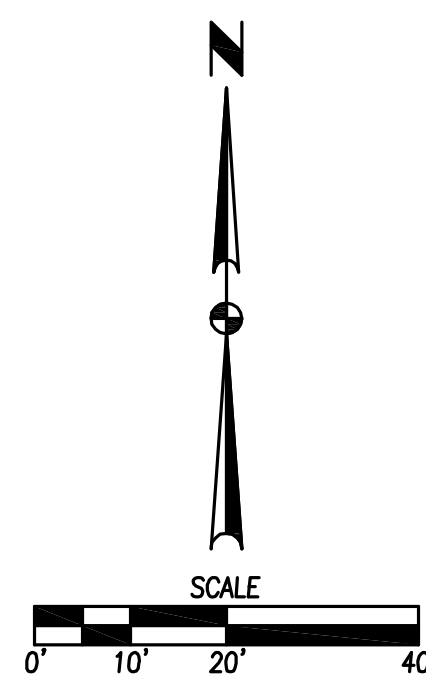
39/42
1401.026

1401.026



NOTES:

1. ELEVATIONS SHOWN ARE TOP OF SLAB AND/OR FORM GRADE.
2. REFER TO FIGURE 6010.514 FOR GRATE INTAKE BOXOUT FOR PCC PAVEMENT DETAILS.



REVISIONS	DATE
SECOND AS-BUILT SUBMITTAL	12/07/15
FIRST AS-BUILT SUBMITTAL	09/29/15

FINAL SUBMITTAL	09/02/14
SIXTH SUBMITTAL	08/04/14
FIFTH SUBMITTAL	06/27/14
FOURTH SUBMITTAL	06/09/14
THIRD SUBMITTAL	05/22/14
SECOND SUBMITTAL	04/22/14
FIRST SUBMITTAL	04/09/14

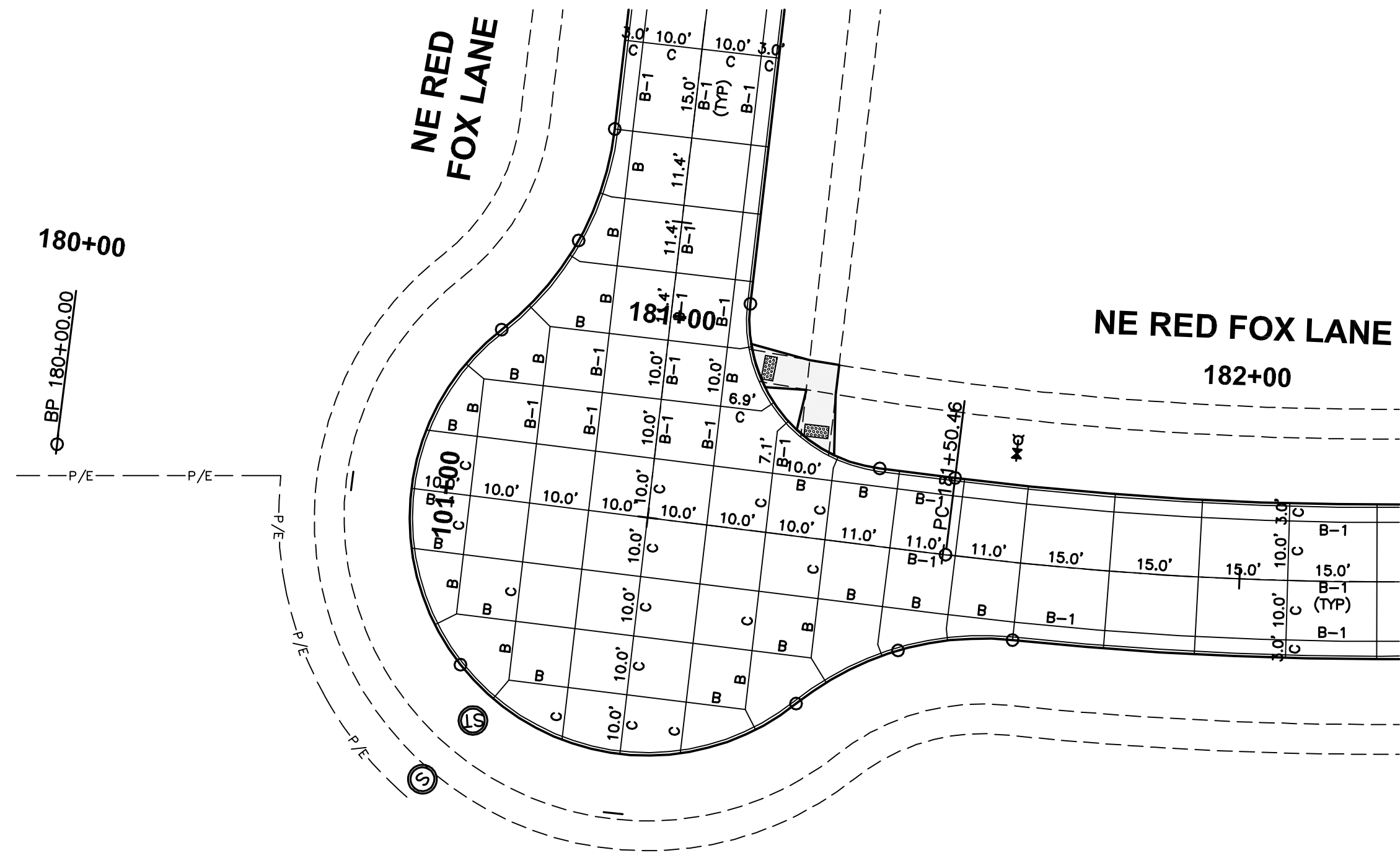
3405 S.E. CROSSROADS DRIVE, SUITE G
GRIMES, IOWA 50111
PHONE: (515) 369-4400 FAX: (515) 369-4410

ENGINEER: EKO

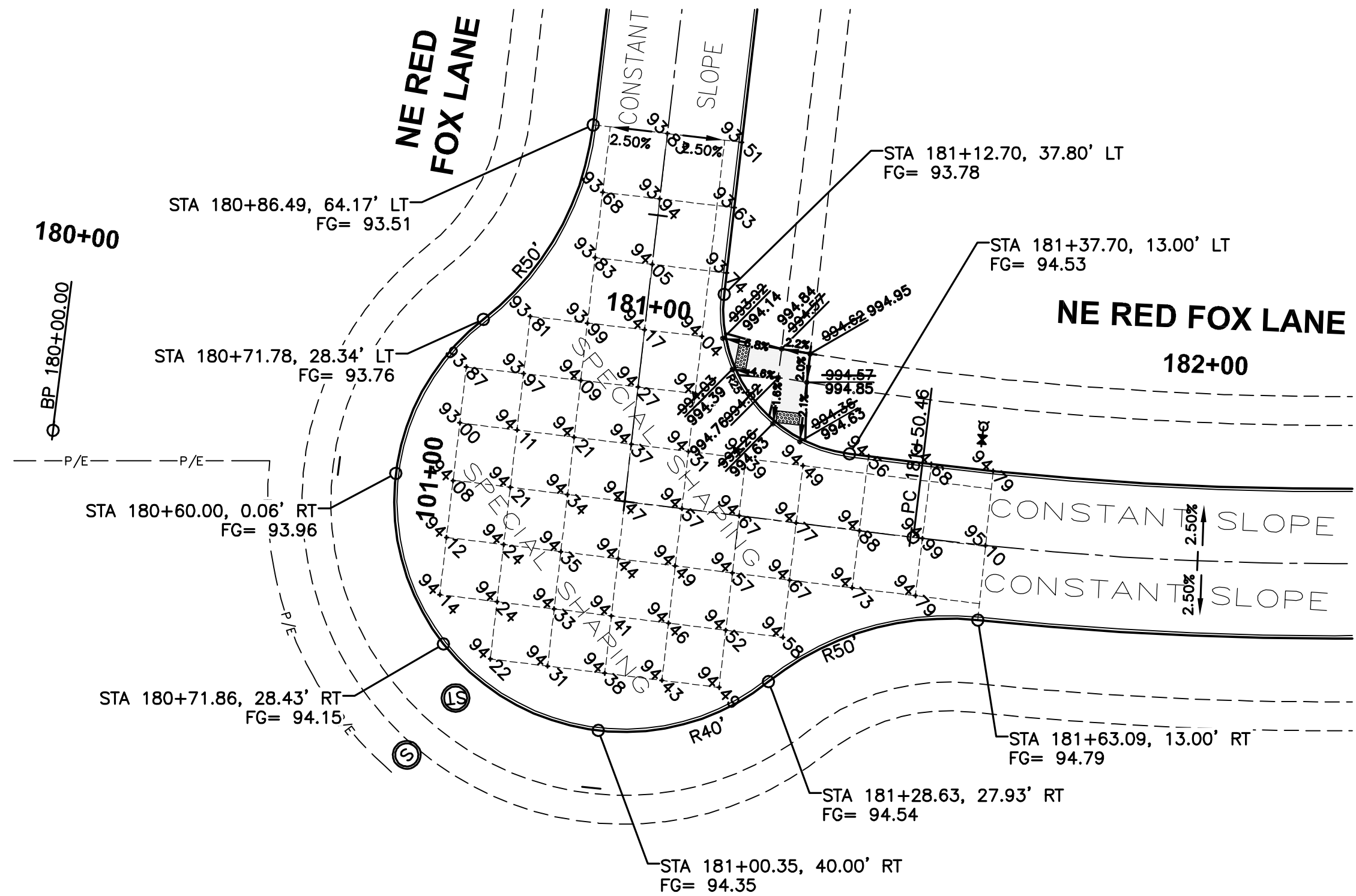
EI: JMM

FOX CREEK ESTATES PLAT 6
INTERSECTION DETAILS

40/42
1401.026



JOINTING LAYOUT



GEOMETRICS AND STAKING LAYOUT

NOTES:

1. ELEVATIONS SHOWN ARE TOP OF SLAB AND/OR FORM GRADE.
2. REFER TO FIGURE 6010.514 FOR GRATE INTAKE BOXOUT FOR PCC PAVEMENT DETAILS.

REVISIONS	DATE
SECOND AS-BUILT SUBMITTAL	12/07/16
FIRST AS-BUILT SUBMITTAL	09/23/15

FINAL SUBMITTAL	09/02/14
SIXTH SUBMITTAL	08/04/14
FIFTH SUBMITTAL	06/27/14
FOURTH SUBMITTAL	06/09/14
THIRD SUBMITTAL	05/22/14
SECOND SUBMITTAL	04/22/14
FIRST SUBMITTAL	04/09/14

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