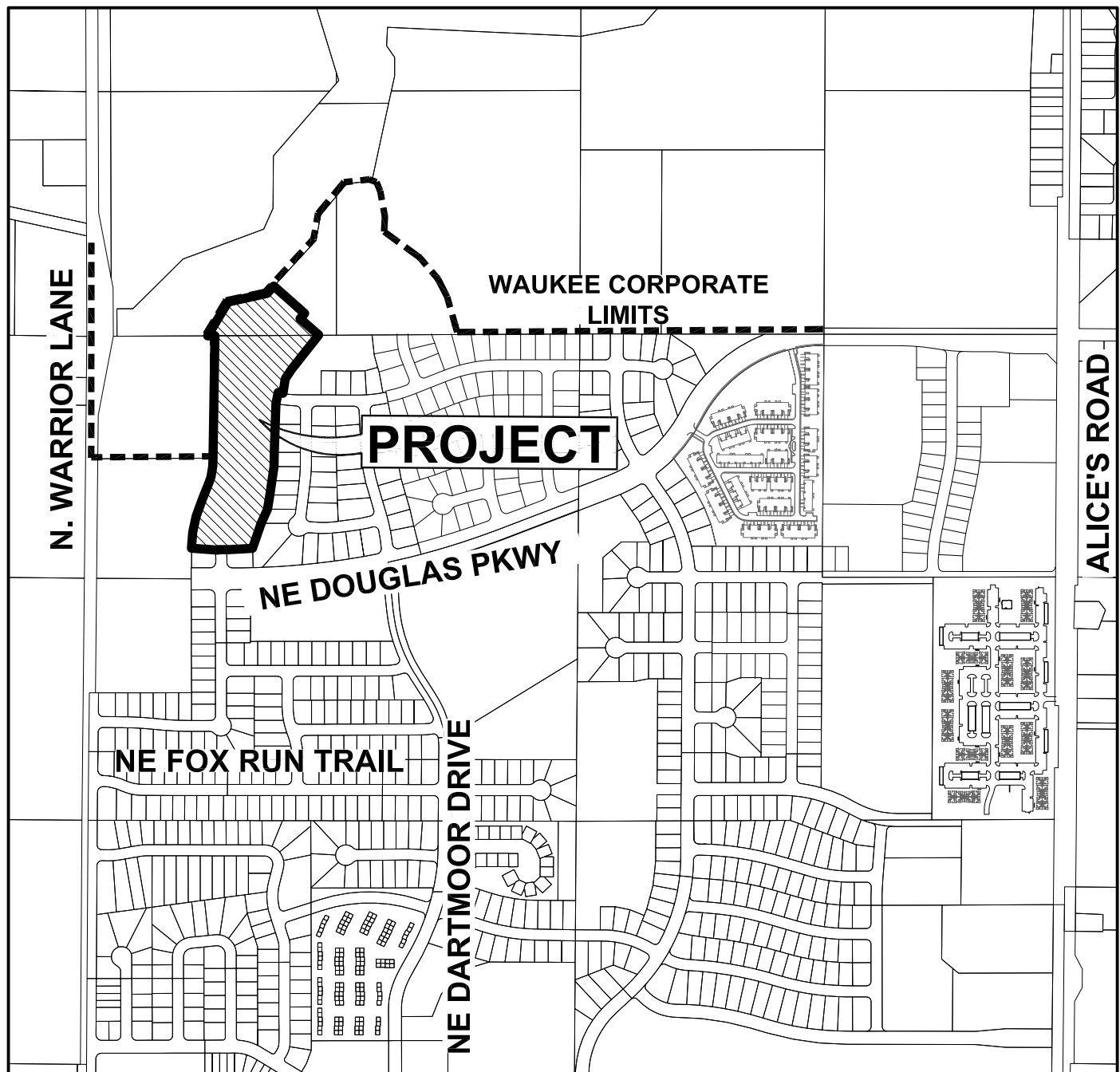


CONSTRUCTION PLANS FOR: FOX CREEK ESTATES PLAT 9

WAUKEE, IOWA

VICINITY MAP

NOT TO SCALE



WAUKEE, IOWA

OWNER / DEVELOPER:

TOP FARMS LLP
CONTACT: BILL ELSON
250 GOLFVIEW DRIVE
DURANT, IA 52747
PH: (515)–255–3306

SHADOW CREEK ESTATES LLC
2400 86TH STREET, SUITE #24
URBANDALE, IA 50322
PH: (515) 276–3456

PROJECT MANAGER:

LANDMARK DEVELOPMENT SERVICES
3405 SE CROSSROADS DRIVE, STE. E
GRIMES, IOWA 50111
CONTACT: NICK HALFHILL

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

SUBMITTAL DATES

FIRST SUBMITTAL:	9/23/2016
SECOND SUBMITTAL:	10/25/2016
THIRD SUBMITTAL:	11/08/2016
FOURTH SUBMITTAL:	12/08/2016
FINAL SUBMITTAL:	01/09/2017
AS–BUILT SUBMITTAL:	07/14/2017

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
2–3	TYPICAL SECTIONS AND DETAILS
4	QUANTITIES AND REFERENCE NOTES
5	HYDRANT COVERAGE PLAN
6–7	GRADING PLAN
8–9	EROSION & SEDIMENT CONTROL PLAN
10–14	STORM AND SANITARY SEWER PLAN AND PROFILE
15–18	WATERMAIN PLAN AND PROFILE
19	INTERSECTION DETAILS

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 PARCEL '17–4' AS SHOWN ON THE PLAT OF SURVEY RECORDED IN BOOK 2016 PAGE 1983 IN THE SOUTH HALF OF THE SOUTHWEST QUARTER OF SECTION 22, TOWNSHIP 79 NORTH, RANGE 26 WEST OF THE FIFTH PRINCIPAL MERIDIAN AND A PART OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 27, TOWNSHIP 79 NORTH, RANGE 26 WEST OF THE FIFTH PRINCIPAL MERIDIAN IN THE CITY OF WAUKEE, DALLAS COUNTY, IOWA AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHWEST CORNER OF SAID SECTION 22; THENCE NORTH 89°32'02" EAST ALONG THE SOUTH LINE OF SAID SECTION 22, A DISTANCE OF 619.55 FEET TO THE SOUTHWEST CORNER OF SAID PARCEL '17–4' AND THE POINT OF BEGINNING; THENCE NORTH 30°55'55" EAST ALONG THE WESTERLY LINE OF SAID PARCEL '17–4', A DISTANCE OF 213.36 FEET; THENCE NORTH 77°35'40" EAST ALONG SAID WESTERLY LINE, 172.86 FEET; THENCE SOUTH 51°10'08" EAST, 191.27 FEET; THENCE NORTHEASTERLY ALONG A CURVE CONCAVE SOUTHEASTERLY WHOSE RADIUS IS 1030.00 FEET, WHOSE ARC LENGTH IS 42.14 FEET, AND WHOSE CHORD BEARS NORTH 40°00'11" EAST, 42.13 FEET; THENCE SOUTH 48°49'30" EAST, 193.95 FEET TO THE NORTHWEST CORNER OF CORRECTED FOX CREEK ESTATES PLAT 6, AN OFFICIAL PLAT; THENCE SOUTH 38°18'05" WEST ALONG THE WESTERLY LINE OF SAID CORRECTED FOX CREEK ESTATES PLAT 6, A DISTANCE OF 234.89 FEET; THENCE SOUTH 33°31'07" WEST ALONG SAID WESTERLY LINE, 63.58 FEET; THENCE SOUTH 9°27'12" WEST ALONG SAID WESTERLY LINE, 79.68 FEET TO THE SOUTHWEST CORNER OF OUTLOT 'Y', CORRECTED FOX CREEK ESTATES PLAT 6; THENCE NORTHWESTERLY ALONG SAID WESTERLY LINE AND A CURVE CONCAVE NORTHEASTERLY WHOSE RADIUS IS 570.00 FEET, WHOSE ARC LENGTH IS 25.66 FEET, AND WHOSE CHORD BEARS NORTH 79°15'25" WEST, 25.66 FEET; THENCE SOUTH 12°01'57" WEST ALONG SAID WESTERLY LINE, 60.00 FEET TO THE NORTHWEST CORNER OF LOT 26, CORRECTED FOX CREEK ESTATES PLAT 6; THENCE SOUTH 0°00'56" WEST ALONG SAID WESTERLY LINE, 265.74 FEET TO THE NORTHWEST CORNER OF LOT 29, CORRECTED FOX CREEK ESTATES PLAT 6; THENCE SOUTH 0°28'48" WEST ALONG SAID WESTERLY LINE, 77.00 FEET TO THE NORTHWEST CORNER OF LOT 30, CORRECTED FOX CREEK ESTATES PLAT 6; THENCE SOUTH 7°01'33" WEST ALONG SAID WESTERLY LINE, 155.17 FEET TO THE NORTHWEST CORNER OF LOT 32, CORRECTED FOX CREEK ESTATES PLAT 6; THENCE SOUTH 10°16'27" WEST ALONG SAID WESTERLY LINE, 78.25 FEET TO THE NORTHWEST CORNER OF LOT 33, CORRECTED FOX CREEK ESTATES PLAT 6; THENCE SOUTH 24°01'52" WEST ALONG SAID WESTERLY LINE, 84.31 FEET TO THE NORTHWEST CORNER OF LOT 34, CORRECTED FOX CREEK ESTATES PLAT 6; THENCE SOUTH 17°32'11" WEST ALONG SAID WESTERLY LINE, 146.61 FEET TO THE NORTHEAST CORNER OF LOT 41, CORRECTED FOX CREEK ESTATES PLAT 6; THENCE SOUTH 89°33'12" WEST ALONG SAID WESTERLY LINE, 140.26 FEET TO THE NORTHWEST CORNER OF SAID LOT 41; THENCE NORTH 89°35'15" WEST ALONG SAID WESTERLY LINE, 60.00 FEET; THENCE SOUTHWESTERLY ALONG SAID WESTERLY LINE AND A CURVE CONCAVE SOUTHEASTERLY WHOSE RADIUS IS 530.00 FEET, WHOSE ARC LENGTH IS 2.92 FEET, AND WHOSE CHORD BEARS SOUTH 0°15'17" WEST, 2.92 FEET TO THE NORTHEAST CORNER OF LOT 50, CORRECTED FOX CREEK ESTATES PLAT 6; THENCE NORTH 89°20'53" WEST ALONG SAID WESTERLY LINE, 130.00 FEET TO THE NORTHWEST CORNER OF LOT 50, CORRECTED FOX CREEK ESTATES PLAT 6; THENCE NORTH 4°01'49" EAST, 88.03 FEET; THENCE NORTH 11°40'34" EAST, 87.99 FEET; THENCE NORTH 19°11'42" EAST, 85.76 FEET; THENCE NORTH 22°20'39" EAST, 74.91 FEET; THENCE NORTH 19°07'49" EAST, 66.45 FEET; THENCE NORTH 8°48'17" EAST, 59.86 FEET; THENCE NORTH 0°50'14" EAST, 50.46 FEET; THENCE NORTH 0°00'55" EAST, 661.27 FEET TO THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 22; THENCE SOUTH 89°32'02" WEST ALONG SAID SOUTH LINE, 39.23 FEET TO THE POINT OF BEGINNING AND CONTAINING 11.64 ACRES (506,829 SQUARE FEET) THE PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS OF RECORD.



CIVIL DESIGN ADVANTAGE

3405 SE CROSSROADS DR. SUITE G GRIMES, IOWA 50111

PH: (515) 369-4400 Fax: (515) 369-4410

PROJECT NO. 1605.226

GENERAL LEGEND

PROPOSED

SECTION LINE	----
CENTER LINE	----
RIGHT OF WAY	---R/W---
PERMANENT EASEMENT	---P/E---
TEMPORARY EASEMENT	---T/E---

TYPE SW–501 STORM INTAKE

TYPE SW–503 STORM INTAKE

TYPE SW–505 STORM INTAKE

TYPE SW–506 STORM INTAKE

TYPE SW–513 STORM INTAKE

TYPE SW–401 STORM MANHOLE

TYPE SW–402 STORM MANHOLE

TYPE SW–301 SANITARY MANHOLE

STORM/SANITARY CLEANOUT

WATER VALVE

FIRE HYDRANT ASSEMBLY

SIGN

DETECTABLE WARNING PANEL

WATER CURB STOP

STORM SEWER STRUCTURE NO.

STORM SEWER PIPE NO.

SANITARY SEWER STRUCTURE NO.

SANITARY SEWER PIPE NO.

SANITARY SEWER WITH SIZE

SANITARY SERVICE

STORM SEWER

STORM SERVICE

WATERMAIN WITH SIZE

WATER SERVICE

SAWCUT (FULL DEPTH)

SILT FENCE

USE AS CONSTRUCTED (UAC)

TOP OF PROPOSED GROUND TG

MINIMUM OPENING ELEVATION MOE

MINIMUM GRADE AT STRUCTURE MGS

EXISTING

SANITARY MANHOLE

WATER VALVE BOX

FIRE HYDRANT

WATER CURB STOP

WELL

STORM SEWER MANHOLE

STORM SEWER SINGLE INTAKE

STORM SEWER DOUBLE INTAKE

FLARED END SECTION

DECIDUOUS TREE

CONIFEROUS TREE

DECIDUOUS SHRUB

CONIFEROUS SHRUB

ELECTRIC POWER POLE

GUY ANCHOR

STREET LIGHT

POWER POLE W/ TRANSFORMER

UTILITY POLE W/ LIGHT

ELECTRIC BOX

ELECTRIC TRANSFORMER

ELECTRIC MANHOLE OR VAULT

TRAFFIC SIGN

TELEPHONE JUNCTION BOX

TELEPHONE MANHOLE/VAULT

TELEPHONE POLE

GAS VALVE BOX

CABLE TV JUNCTION BOX

CABLE TV MANHOLE/VAULT

MAIL BOX

BENCHMARK

SOIL BORING

UNDERGROUND TV CABLE

GAS MAIN

FIBER OPTIC

UNDERGROUND TELEPHONE

OVERHEAD ELECTRIC

UNDERGROUND ELECTRIC

FIELD TILE

SANITARY SEWER W/ SIZE

STORM SEWER W/ SIZE

WATER MAIN W/ SIZE

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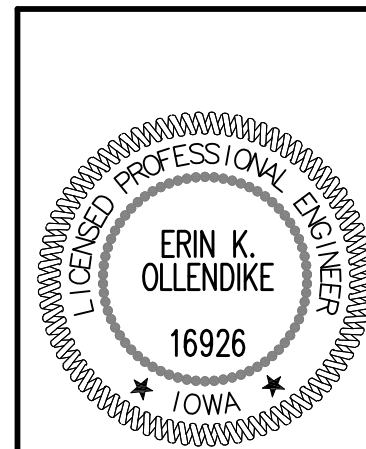
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THIS PROJECT REQUIRES AN IOWA NPDES PERMIT #2. CIVIL DESIGN ADVANTAGE WILL PROVIDE THE PERMITS AND THE INITIAL STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FOR THE CONTRACTORS USE DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR UPDATING 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 MOST RECENT EDITION OF THE CITY OF WAUKEE STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS AND THE 2016 EDITION OF SUDAS STANDARD SPECIFICATIONS SHALL APPLY TO ALL WORK PERFORMED ON THIS PROJECT EXCEPT AS MODIFIED HEREIN.



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.

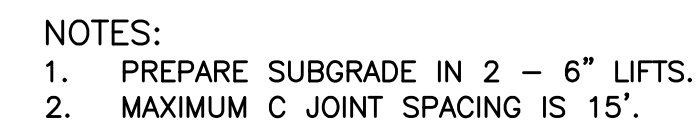
ERIN K. OLLENDIKE, P.E.

DATE

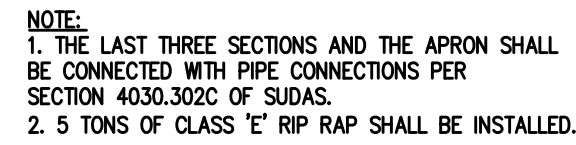
MY LICENSE RENEWAL DATE IS DECEMBER 31, 2017
PAGES OR SHEETS COVERED BY THIS SEAL:

SHEETS 1–19

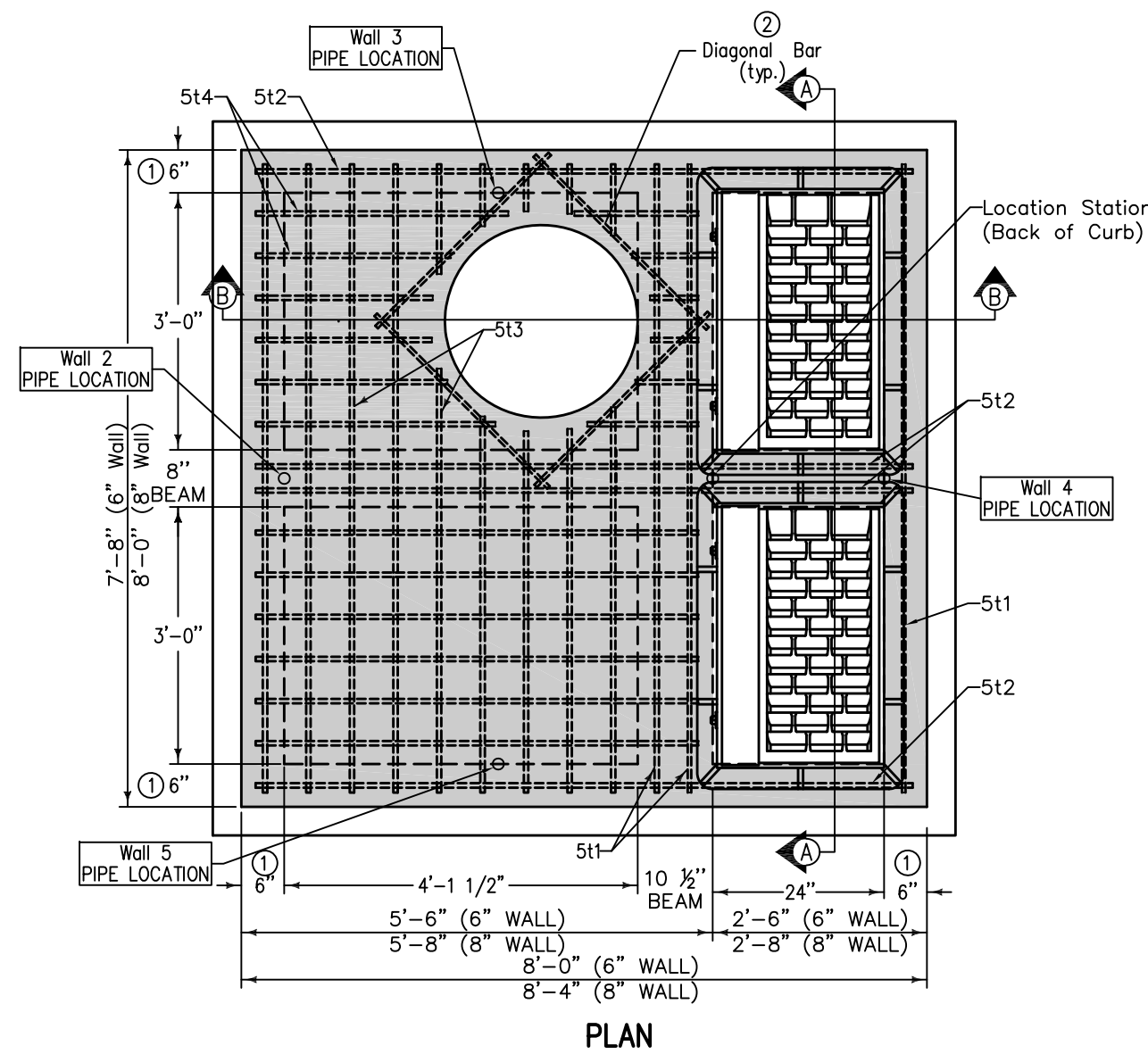




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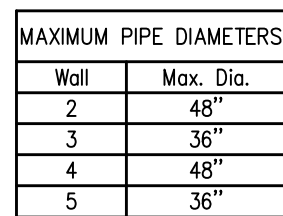



ROCK APRON FOR PIPE OUTLET

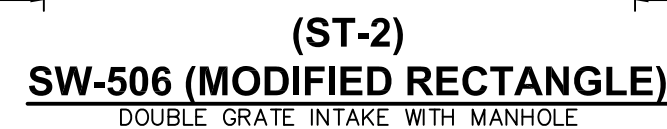


PLAN

- ① Use 8" wall option for intake depths greater than 7'-0" and less than 10'-0".
- ② Install four #5 diagonal bars at manhole opening and at all pipe openings.
- ③ Cast-in-place base shown. If base is precast integral with walls, the footprint of base is not required to extend beyond the outer edge of the walls.
- ④ 12 inch minimum wall height above all pipes.
- ⑤ Construct 8"x15" and 10 ½"x15" P.C. concrete beams integral with 12" P.C. concrete flat top.



REINFORCING BAR LIST									
Mark	Size	Location	Shape	Count		Length		Spacing	
				6" Wall	8" Wall	6" Wall	8" Wall	6" Wall	8" Wall
31k1	3	Top		7	2	3'-0"	3'-2"	12"	
312	3	Top		8	8	2'-10"	2'-10"	10 1/2"	10 1/2"
5b1	5	Base		9	9	7'-10"	8'-2"	12 1/2"	12 1/2"
5b2	5	Base		9	9	8'-2"	8'-6"	11 1/2"	12 1/2"
6w1	6	Walls		30	30	Wall Height	minus 4"	12"	12"
6w2	6	Walls		Varies	Varies	7'-8"	8'-0"	12"	12"
6w3	6	Walls		Varies	Varies	7'-4"	7'-8"	12"	12"
511	5	Top		4	4	7'-4"	7'-8"	See Detail	See Detail
512	5	Top		6	6	7'-8"	8'-0"	See Detail	See Detail
513	5	Top		18	18	7'-4"	7'-8"	6 1/2"	6 1/2"
514	5	Top		24	24	5'-2"	5'-4"	5 1/2"	6"
611	6	Top		2	2	7'-4"	7'-8"	See Detail	See Detail
612	6	Top		2	2	7'-8"	8'-0"	See Detail	See Detail



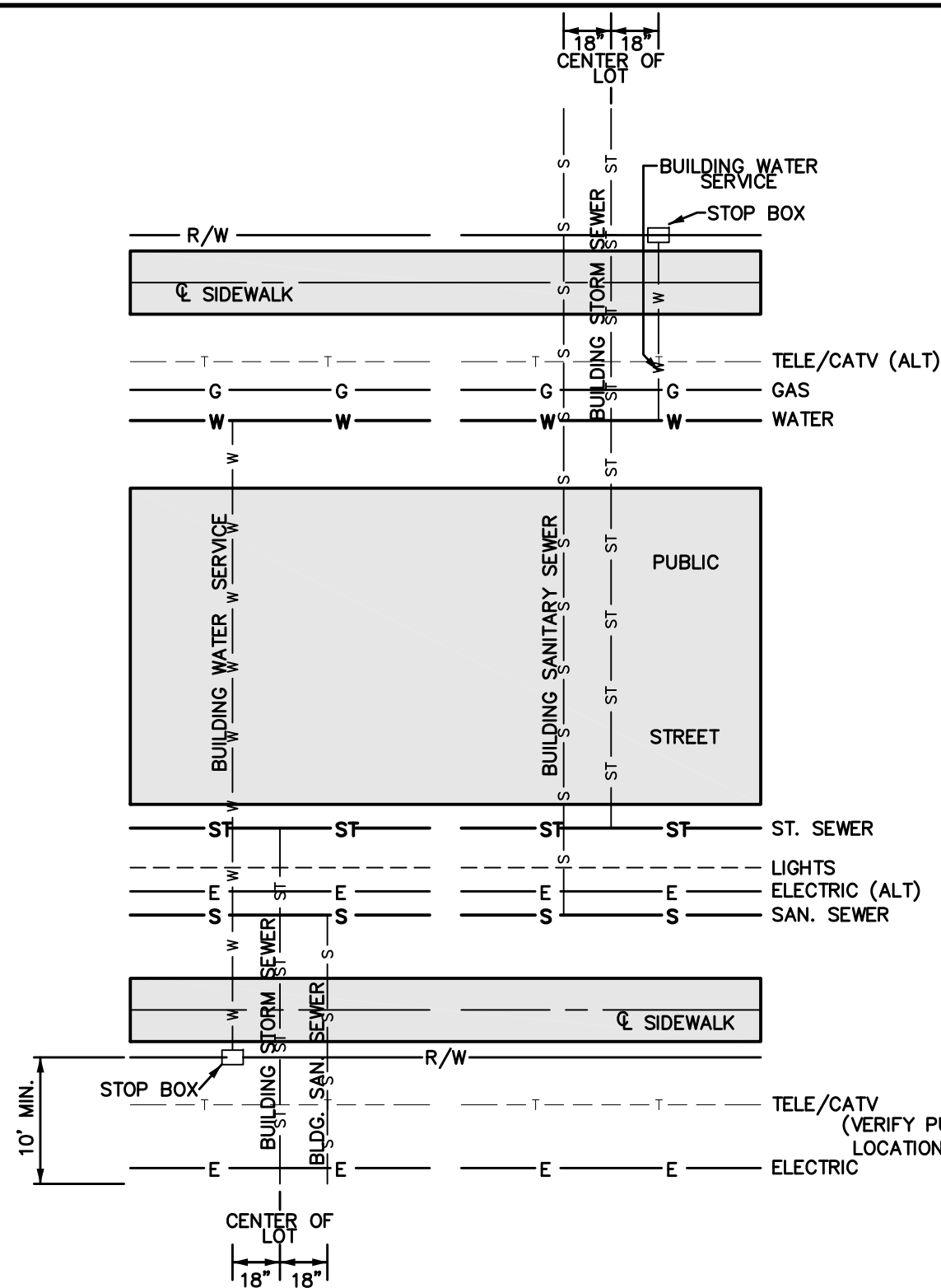
- ① PLACE PERFORATIONS DOWN FOR ALL INSTALLATIONS.
- ② ALL SUBDRAINS ARE TO BE TIED INTO STORM SEWER STRUCTURES AND THEIR LOCATIONS ARE TO BE INCLUDED IN THE AS-BUILTS FOR THE SUBDIVISION.
- ③ THE GEOTECHNICAL ENGINEER SHALL BE PRESENT ONSITE DURING SUBGRADE PREPARATION AND PROOF ROLL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE GEOTECHNICAL ENGINEER IS PRESENT ONSITE AND A COPY OF ALL REPORTS AND FINDINGS REQUIRING ALTERATION FROM THE APPROVED PLAN SET BE PROVIDED TO THE WISCONSIN ENGINEERING DEPARTMENT FOR REVIEW AND DISCUSSION PRIOR TO COMMENCING WITH PAVING WITHIN THE PROJECT.
- ④ CORE DRILL ALL STORM SEWER AND PLACE NON-SHRINK GROUT COLLAR AT CONNECTION.
- ⑤ RODENT GUARDS ARE TO BE INSTALLED WHERE THE PIPE TIES INTO THE STRUCTURE.



D	W	Mark	Size	Length	Count	D	W	Mark	Size	Length	Count
12"	2'-4"	4f1	4	2'-0"	3	48"	7'-10"	4f1	4	7'-6"	3
		4f2	4	3'-8"	2			4f2	4	3'-8"	6
15"	2'-10"	4f1	4	2'-6 1/2"	3	54"	8'-5"	4f1	4	8'-1"	3
		4f2	4	3'-8"	2			4f2	4	3'-8"	6
18"	3'-5"	4f1	4	3'-1 1/2"	3	60"	8'-11"	4f1	4	8'-7"	3
		4f2	4	3'-8"	3			4f2	4	3'-8"	6
24"	4'-6"	4f1	4	4'-2"	3	66"	8'-11"	4f1	4	8'-7"	6
		4f2	4	3'-8"	3			4f2	4	3'-8"	6
30"	5'-7"	4f1	4	5'-3"	3	72"	10'-1"	4f1	4	9'-8"	3
		4f2	4	3'-8"	3			4f2	4	3'-8"	7
36"	6'-8"	4f1	4	6'-4"	3	78"	10'-7"	4f1	4	10'-3"	7
		4f2	4	3'-8"	5			4f2	4	3'-8"	7
42"	7'-3"	4f1	4	6'-11"	3	84"	11'-1"	4f1	4	10'-9"	3
		4f2	4	3'-8"	5			4f2	4	3'-8"	8

RCP APRON FOOTING DETAIL

NOT TO SCALE



CITY OF WAUKEE UTILITY SERVICE LOCATIONS

FILE: H:\2016\6052245\DWG\6052245-COVER-BET-TAB.DWG COMMENT: ENGR
PLOTED BY: TONY GLENNON DATE: 7/14/2017 7:21 AM

ESTIMATED PROJECT QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	UNIT QUANTITY	
1	COMBINED CLEARING AND GRUBBING	AC	17.8
2	STRIPPING, SALVAGING AND SPREAD TOPSOIL	LS	1
3	CLASS 10 EXCAVATION	LS	1
4	SUBGRADE PREPARATION	SY	5694
5	SANITARY SEWER GRAVITY MAIN, 8" DIA	LF	1428
6	SANITARY SEWER SERVICE STUB, 4" DIA	EA	32
7	SUBDRAIN, 6" PERFORATED PVC	LF	2053
8	STORM SEWER, 8" PVC	LF	462
9	STORM SEWER, 15" RCP	LF	382
10	STORM SEWER, 36" RCP	LF	917
11	STORM SEWER SERVICE STUB, 4" DIA	EA	32
12	STORM SEWER, 15" RCP APRON W/FOOTING & APRON GUARD	EA	2
13	WATER MAIN, 8" DIA	LF	1776
14	WATER SERVICE STUB, 1" DIA	EA	32
15	VALVE, 8" DIA	EA	5
16	FIRE HYDRANT ASSEMBLY	EA	7
17	TEMPORARY FIRE HYDRANT ASSEMBLY (RELOCATED)	EA	2
18	MANHOLE, SW-301, 48" (SANITARY SEWER)	EA	7
19	MANHOLE, SW-401, 48" (STORM SEWER)	EA	2
20	MANHOLE, SW-401, 60" (STORM SEWER)	EA	3
21	STORM SEWER CLEANOUT	EA	5
22	INTAKE, SW-501	EA	3
23	INTAKE, SW-503	EA	3
24	INTAKE, SW-505	EA	1
25	INTAKE, SW-506 (MODIFIED)	EA	1
26	PAVEMENT, 7" P.C.C.	SY	5694
27	PAVEMENT, 6" P.C.C. SIDEWALK RAMPS	SY	43
28	DETECTABLE WARNING PANELS	SF	64
29	SEEDING, FERTILIZING, AND MULCHING	AC	16.64
30	PERMANENT ROAD CLOSURE, URBAN, SI-182 (RELOCATE)	EA	10
31	TRAFFIC CONTROL	LS	1
32	EROSION CONTROL	LS	1
33	ROCK OUTLET PROTECTION, CLASS 'E' RIP RAP	TONS	5
34	6-INCH GRANULAR TURNAROUND	SY	619
35	MAILBOX PADS	EA	3

GENERAL NOTES

1.

ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF WAUKEE STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS AND TO THE 2016 EDITION OF SUDAS STANDARD SPECIFICATIONS. THE WAUKEE STANDARD SPECIFICATIONS SHALL GOVERN IF ANY DISCREPANCIES.
2.

WHERE PUBLIC UTILITY FIXTURES ARE SHOWN AS EXISTING ON THE PLANS OR ENCOUNTERED WITHIN THE CONSTRUCTION AREA, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNERS OF THOSE UTILITIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. THE CONTRACTOR SHALL AFFORD ACCESS TO THESE FACILITIES FOR NECESSARY MODIFICATION OF SERVICES. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS. THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATIONS AND TO AVOID DAMAGE THERETO. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK.
3.

THE CONTRACTOR IS REQUIRED TO UTILIZE THE UTILITY ONE-CALL SERVICE AT 800-292-8989 AT LEAST 48 HOURS PRIOR TO EXCAVATING ANYWHERE ON THE PROJECT.
4.

THE CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY AREAS OF PAVEMENT OR SIDEWALK NOT TO BE REMOVED THAT IS DAMAGED DUE TO OPERATING HIS EQUIPMENT ON THE PAVEMENT OR SIDEWALK. PAVEMENT REPLACEMENT SHALL COMPLY WITH THE WAUKEE STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS.
5.

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF WORK BETWEEN ALL SUPPLIERS AND SUBCONTRACTORS INVOLVED IN THE PROJECT. INCLUDING STAGING OF CONSTRUCTION DETAILS.
6.

THE CONTRACTOR SHALL CONFINE HIS GRADING OPERATIONS TO WITHIN THE PROPOSED AND EXISTING RIGHT OF WAY, CONSTRUCTION LIMITS AND EASEMENTS SHOWN ON THE PLANS. ANY DAMAGE TO PROPERTIES OUTSIDE THE SITE BOUNDARY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
7.

PRIOR TO CONSTRUCTION, CONTRACTOR SHALL NOTIFY (48 HRS NOTICE) THE FOLLOWING:

A. CITY OF WAUKEE ENGINEERING DEPARTMENT

B. APPROPRIATE UTILITY COMPANIES

C. OWNER

D. CIVIL DESIGN ADVANTAGE
- *

48 HOUR NOTICE SHALL BE GIVEN TO THE CITY OF WAUKEE ENGINEERING DEPARTMENT PRIOR TO WEEKEND AND HOLIDAY WORK.
8.

PRIOR TO CONSTRUCTION, THE PROJECT MANAGER SHALL CONTACT THE WAUKEE ENGINEERING DEPARTMENT AND SCHEDULE A PRE-CONSTRUCTION MEETING AT LEAST ONE WEEK PRIOR TO THE ANTICIPATED START OF CONSTRUCTION.
9.

9. SPECIAL CARE SHALL BE TAKEN WHEN FORMING AT INTERSECTIONS SO THE PROFILES SHOWN ON THE PLANS AND THE ELEVATIONS SHOWN ON THE INTERSECTION DETAILS ARE OBTAINED. SHORT LENGTHS OF FORMS OR FLEXIBLE FORMS MAY BE NECESSARY AT THESE LOCATIONS.

ESTIMATE REFERENCE INFORMATION	
Data listed below is for informational purpose only and shall not constitute a basis for any extra work orders.	
ITEM NO.	DESCRIPTION
	THE MOST RECENT EDITION OF THE CITY OF WAUKEE STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS AND THE 2016 EDITION OF SUDAS STANDARD SPECIFICATIONS SHALL APPLY TO ALL WORK PERFORMED ON THIS PROJECT EXCEPT AS MODIFIED HEREIN.
	ALL REFERENCES TO SECTIONS AND FIGURES ARE TO THE SUDAS STANDARD SPECIFICATIONS. CITY OF WAUKEE STANDARD DETAILS SHALL GOVERN IF ANY DISCREPANCIES.
1	CLEAR AND GRUB ALL AREAS AFFECTED BY GRADING OPERATIONS. THE CONTRACTOR SHALL FIELD VERIFY CLEARING AND GRUBBING NEEDS PRIOR TO BIDDING. INCLUDES REMOVAL OF ANY EXISTING FIELD FENCE. ALL MATERIAL THAT IS REMOVED FROM THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR. INCLUDED REMOVAL OF EXISTING CROPS FOR CONSTRUCTION OF TEMPORARY ACCESS. DO NOT DISTURB CROPS OUTSIDE OF THE PROJECT LIMITS.
2	STRIP, SALVAGE AND RE-SPREAD TOPSOIL PER SECTION 2010 OF SUDAS STANDARD SPECIFICATIONS OR PROVIDE THE CITY WITH A TOPSOIL PRESERVATION PLAN. TOPSOIL TO BE RESPREAD SHALL BE FREE OF ROCK AND DEBRIS AND BE SUITABLE FOR THE GROWTH OF GRASS. COORDINATE LOCATION OF STOCKPILE WITH OWNER.
3	EXCAVATION INCLUDES ALL WORK NECESSARY TO ACHIEVE PROPER GRADES AS SHOWN IN THE PLANS. NO PAYMENT FOR OVERHAUL SHALL BE ALLOWED.
4	REFER TO SHEET 2 FOR TYPICAL LOCATIONS AND THICKNESS.
5	SANITARY SEWER FOR 8" SHALL BE PVC TRUSS PIPE. ANY CONNECTIONS TO EXISTING SANITARY SEWER SHALL BE CONSIDERED INCIDENTAL. REFER TO FIG. 3010.101 AND 3010.103 FOR PIPE EMBEDMENT DETAILS. GRANULAR PIPE BEDDING SHALL BE CONSIDERED INCIDENTAL. EXISTING SANITARY SEWER WILL NEED TO BE RETESTED AFTER SADDLE WYE INSTALLATION.
5-12	REFER TO FIGURE 3010.102 FOR TRENCH BEDDING AND BACKFILL ZONE DETAILS. GRANULAR PIPE BEDDING SHALL BE CONSIDERED INCIDENTAL. CONNECTIONS TO EXISTING STORM SEWER PIPE AND STRUCTURES SHALL BE CONSIDERED INCIDENTAL. WRAP ALL PIPE JOINTS IN ENGINEERING FABRIC. CLEAN AND TELEWISE SANITARY AND STORM SEWER PRIOR TO PAVING AND PROVIDE TELEVISION REPORT TO CITY IN HARD COPY AND DISC FORMAT. TELEVISION SHALL BE CONSIDERED INCIDENTAL. ALL STORM SEWER PIPE THAT CROSSES OVER WATERMAIN SHALL HAVE O-RING GASKETS JOINT RATED AT 13 PSI OR GREATER. O-RING GASKET JOINTS SHALL BE INSTALLED ON EACH SIDE OF THE CROSSING UNTIL THE NORMAL DISTANCE FROM THE WATER TO THE SEWER IS AT LEAST 10 FEET.
6,11,14	REFER TO PLAN AND PROFILE SHEETS FOR LOCATION AND DEPTH. STORM SEWER SERVICES TYING INTO EXISTING RCP PIPE ARE TO BE CORE DRILLED.
12	THE LAST THREE SECTIONS AND APRON SHALL BE CONNECTED WITH PIPE CONNECTORS. REFER TO FIG. 4030.221 - RCP APRON SECTION FOOTING FOR FOOTING CONSTRUCTION DETAILS. APRON GUARD REQUIRED ON ALL APRONS. RCP APRON FOOTING, PIPE APRON GUARD AND PIPE CONNECTORS TO BE CONSIDERED INCIDENTAL. INSTALL CLAY WATERSTOPS AT ALL RCP APRONS, MIN. 3' LONG.
13-14	REFER TO FIG. 3010.101 AND FIG. 3010.104 FOR TRENCH BEDDING AND BACKFILL ZONE DETAILS. GRANULAR PIPE BEDDING SHALL BE CONSIDERED INCIDENTAL. REFER TO FIG. 5010.101 FOR THRUST BLOCK DETAILS. REFER TO FIG. 5010.102 FOR TRACER SYSTEM DETAILS. ALL FITTINGS, POLYETHYLENE WRAP, THRUST BLOCKS, AND TRACER WIRE SYSTEM SHALL BE CONSIDERED INCIDENTAL.
16	REFER TO FIG. 5020.201 - FIRE HYDRANT ASSEMBLY FOR FIRE HYDRANT CONSTRUCTION DETAILS. INCLUDES ANCHORING TEE, ANCHORING ELBOW, GATE VALVE, VALVE BOX, ANCHORING PIPE, ANCHORING COUPLING, ELBOWS, STORZ FITTINGS, POLYETHYLENE WRAP, THRUST BLOCK AND TRACER WIRE SYSTEM AND FIRE HYDRANT.
16-17	REFER TO WATERMAIN PLAN AND PROFILE SHEETS FOR LOCATIONS OF HYDRANTS. ANY RELOCATED FIRE HYDRANTS ARE TO INCLUDE STORZ FITTINGS.

10.

TO OBTAIN THE CORRECT FORM GRADES AT LOW POINTS WHERE INTAKES ARE LOCATED, THE CONTRACTOR MUST EXERCISE ADDITIONAL CARE WHEN PAVING FULL WIDTH PAVEMENTS. THIS MAY REQUIRE POURING ONE HALF OF THE PAVEMENT AT A TIME OR OTHER METHODS APPROVED BY THE ENGINEER.
11.

THE CONTRACTOR MAY BE REQUIRED AS DIRECTED BY THE ENGINEER OR THE CITY, TO PLACE TEMPORARY WARNING DEVICES AND SAFETY FENCE AT CERTAIN LOCATIONS WHERE REPLACEMENT FEATURES ARE NOT INSTALLED THE SAME DAY. THE IS BE INCIDENTAL TO THE BID ITEM TRAFFIC CONTROL. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ROAD BARRICADES AT END OF EXISTING PAVEMENTS UNTIL THE PROJECT IS ACCEPTED.
12.

PLAN AND PROFILE SHEETS INCLUDED IN THE PROJECT ARE FOR THE PURPOSE OF ALIGNMENT, LOCATION AND SPECIFIC DIRECTIONS FOR WORK TO BE PERFORMED UNDER THIS CONTRACT. IRRELEVANT DATA ON THESE SHEETS IS NOT TO BE CONSIDERED A PART OF THIS CONTRACT.
13.

THE CONTRACTOR SHALL APPLY NECESSARY MOISTURE TO THE CONSTRUCTION AREA AND HAUL ROADS TO PREVENT THE SPREAD OF DUST.
14.

THE CONTRACTOR IS REQUIRED TO BE FAMILIAR WITH AND COMPLY WITH OSHA STANDARDS. NOTHING WITHIN THESE PLANS SHALL RELIEVE THE CONTRACTOR OF THIS REQUIREMENT.
15.

ALL MATERIAL TESTING SHALL BE CONSIDERED INCIDENTAL TO OTHER CONSTRUCTION.
16.

PRIOR TO ANY WORK AT THE SITE, CONTRACTOR SHALL EXAMINE ANY APPLICABLE DRAWINGS AVAILABLE FROM THE OWNER, ENGINEER, AND/OR ARCHITECT, AND CONSULT WITH OWNER'S PERSONNEL AND UTILITY COMPANY REPRESENTATIVES. NO COMPENSATION WILL BE ALLOWED FOR DAMAGE FROM FAILURE TO COMPLY WITH THIS REQUIREMENT.
17.

ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. (MUTCD)
18.

ALL SLOPES IN PAVEMENT SHALL BE UNIFORM TO AVOID PONDING.
19.

SIDEWALKS, ACCESSIBLE CURB RAMPS AND SIDEWALK RAMPS INCLUDING RAISED TRUNCATED DOME AND DETECTABLE WARNINGS AND WARNING PANELS SHALL BE DESIGNED AND INSTALLED TO THE LATEST P.R.O.W.A.G. AND A.D.A. REQUIREMENTS.
20.

PLACE 3/4" EXPANSION JOINT BETWEEN ALL P.C.C. PAVEMENT/SIDEWALKS AND BUILDINGS. PLACE 1/2" EXPANSION JOINT BETWEEN SIDEWALKS AND P.C.C PAVEMENT. THE PCC RAMP JOINT LOCATED AT THE BACK OF CURB AND ALL EXPANSION JOINTS SHALL BE SEALED.
21.

REMOVE DEBRIS SPILLED INTO R.O.W. AT THE END OF EACH WORK DAY AND BEFORE RAIN EVENTS.
22.

DO NOT STORE CONSTRUCTION MATERIALS AND EQUIPMENT IN THE R.O.W.
23.

ALL PROPERTY PINS SHALL BE PROTECTED FROM GRADING OR OTHER OPERATIONS. ANY PINS DISTURBED SHALL BE RESET AT THE CONTRACTOR'S EXPENSE.
24.

IN THE EVENT OF A DISCREPANCY BETWEEN DETAILED PLANS AND QUANTITIES, THE DETAILED PLANS SHALL GOVERN.
25.

25. ALL FIELD TILES ENCOUNTERED SHALL BE REPAIRED AND CONNECTED TO STORM SEWERS WHERE POSSIBLE. LOCATIONS SHALL BE PROVIDED TO THE ENGINEER FOR NOTATION ON AS-BUILTS.

ESTIMATE REFERENCE INFORMATION	
Data listed below is for informational purpose only and shall not constitute a basis for any extra work orders.	
ITEM NO.	DESCRIPTION
18	REFER TO FIG.6010.301 - CIRCULAR SANITARY SEWER MANHOLE (SW-301) FOR CONSTRUCTION DETAILS. CASTINGS IN PAVEMENT SHALL BE TYPE B RING AND COVER. WHEN CASTINGS ARE NOT IN PAVEMENT, INSTALL MANHOLE CONE SECTION, MANHOLE STEPS, AND RING/COVER CASTING SUCH THAT SEPARATION IS MAINTAINED BETWEEN MANHOLE COVERS AND PAVED AREAS (BACK OF CURB, SIDEWALK PAVEMENT, SIDEWALK APPROACHES/RAMPS). ALL SANITARY SEWER MANHOLES SHALL BE VACUUM TESTED.
19-20	REFER TO FIG. 6010.401 - CIRCULAR STORM SEWER MANHOLE (SW-401) FOR CONSTRUCTION DETAILS. MANHOLE INSIDE DIAMETERS GREATER THAN 48" SHALL BE CONSIDERED INCIDENTAL.
22-25	REFER TO FIG. 6010.514 - BOXOUTS FOR GRATE INTAKES. REFER TO FIG. 6010.603 - CASTINGS FOR GRATE INTAKES FOR TYPE R GRATE DETAILS AND FIG. 6010.602 - CASTINGS FOR STORM SEWER MANHOLES FOR TYPE E CASTING DETAILS. THE MAXIMUM HEIGHT OF ADJUSTING RINGS ALLOWED FOR INTAKE CASTINGS IS 6". THE MAXIMUM HEIGHT OF ADJUSTING RINGS ALLOWED FOR MANHOLE CASTINGS IS 12".
22	REFER TO FIG. 6010.501 - SINGLE GRATE INTAKE (SW-501) FOR CONSTRUCTION DETAILS.
23	REFER TO FIG. 6010.503 - SINGLE GRATE INTAKE WITH MANHOLE (SW-503) FOR CONSTRUCTION DETAILS.
24	REFER TO FIG. 6010.505 - DOUBLE GRATE INTAKE (SW-505) FOR CONSTRUCTION DETAILS.
25	REFER TO DETAIL ON SHEET 3 FOR CONSTRUCTION DETAILS.
26	REFER TO FIG. 7010.101 - JOINTS (PV-101) FOR JOINT DETAILS. MAXIMUM C JOINT SPACING IS 15 FEET.
27-28	REFER TO FIG. 7030.204 - GENERAL SIDEWALK AND ACCESSIBLE RAMP DETAILS AND FIG. 7030.208 - CURB RAMPS WITHIN INTERSECTION RADIUS FOR CLASS B OR C SIDEWALK FOR CONSTRUCTION DETAILS. DETECTABLE WARNING PANELS TO BE ARMOR TILE, ADA SOLUTIONS OR APPROVED EQUAL, BRICK RED IN COLOR. ACCESSIBLE CURB RAMPS INCLUDING TURNING SPACES SHALL BE 6" THICK P.C.C.
28	REFER TO SHEET 2 FOR CONSTRUCTION DETAILS.
29	THE SITE SEEDING SHALL CONFORM TO THE SPECIFICATION FOR TYPE (1) PERMANENT LAWN MIXTURE AND TYPE (4) URBAN TEMPORARY EROSION CONTROL SEED MIXTURE. SEEDING QUANTITIES - TYPE 1 PERMANENT LAWN MIXTURE = 1.14 AC - TYPE 4 URBAN TEMPORARY EROSION CONTROL MIXTURE = 15.5 AC
30	REFER TO PLAN AND PROFILE SHEETS FOR LOCATIONS.
31	ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON TRAFFIC CONTROL DEVICES. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ROAD BARRICADES AT END OF EXISTING PAVEMENTS UNTIL THE PROJECT IS ACCEPTED.
32	REFER TO SHEETS 8 AND 9 OF THE CONSTRUCTION DRAWINGS FOR EROSION AND SEDIMENT CONTROLS. REFER TO SEPARATE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FOR SPECIFIC DETAILS. EROSION CONTROL QUANTITIES - 1 CONCRETE WASH PIT - 4,643 LF OF SILT FENCE - 16.64 ACRES OF SEEDING, FERTILIZING AND MULCHING. - 10 INLET PROTECTION DEVICES - 15" PVC EXISTING TEMPORARY STANDPIPE
33	INSTALL ENGINEERING FABRIC UNDER ALL RIP RAP. ENGINEERING FABRIC SHALL BE CONSIDERED INCIDENTAL.
34	REFER TO SHEET 12 FOR LOCATION OF TEMPORARY TURNAROUND.
35	REFER TO SHEET 2 FOR CONSTRUCTION DETAILS. MAILBOX PADS LOCATED BETWEEN LOTS 21/22, 25/26 AND 31/32.

26.

ALL CONSTRUCTION STAKING TO BE COMPLETED UNDER THE DIRECTION OF A LICENSED ENGINEER OR LAND SURVEYOR. ALL CURB DROPS AND SIDEWALK/SHARED USE PATH SHALL ALSO BE STAKED UNDER THE DIRECTION OF A LICENSED ENGINEER OR LAND SURVEYOR
27.

THE CONTRACTOR SHALL SUBMIT A LIST OF CONSTRUCTION MATERIALS TO THE CITY OF WAUKEE ENGINEERING DEPARTMENT PRIOR TO CONSTRUCTION.
28.

A GEOTECHNICAL ENGINEER SHALL BE ONSITE DURING CONSTRUCTION AND FOR PROOF ROLLING TO INSPECT SOILS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE GEOTECHNICAL ENGINEER IS PRESENT. A COPY OF ALL REPORTS AND FINDINGS REQUIRING ALTERATION FROM THE APPROVED PLAN SET IS TO BE PROVIDED TO THE WAUKEE ENGINEERING DEPARTMENT FOR REVIEW AND DISCUSSION PRIOR TO COMMENCING WITH PAVING WITHIN THE PROJECT.
29.

THE CONTRACTOR SHALL COORDINATE ALL EXISTING PUBLIC UTILITY CONNECTIONS WITH THE CITY OF WAUKEE ENGINEERING DEPARTMENT.
30.

ALL TESTING SHALL BE COMPLETED ACCORDING TO THE CITY OF WAUKEE STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS AND THE WAUKEE ENGINEERING DEPARTMENT SHALL BE PRESENT TO WITNESS ALL TESTING.
31.

AS-BUILTS SHALL BE PROVIDED TO THE WAUKEE ENGINEERING DEPARTMENT INCLUDING ALL UTILITIES AND AS-BUILT GRADES FOR DRAINAGE SWALES, OVERFLOWS, ACCESSIBLE RAMPS AND DETENTION FACILITIES. THE CONTRACTOR SHALL PROVIDE INFORMATION TO THE DESIGN ENGINEER FOR INCLUSION ON THE RECORD AS-BUILT DRAWINGS.
32.

THE CONTRACTOR IS RESPONSIBLE FOR CLEANING AND TELEVISION ALL STORM AND SANITARY SEWERS. THE CITY OF WAUKEE ENGINEERING DEPARTMENT SHALL WITNESS AND APPROVE ALL CLEANING AND TELEVISION PRIOR TO PAVING. A COPY OF THE VIDEOS AND A HARD COPY OF THE INSPECTION REPORT SHALL BE PROVIDED TO THE CITY OF WAUKEE ENGINEERING DEPARTMENT. ALL SANITARY SEWER MANHOLES ARE TO BE VACUUM TESTED.
33.

ALL FIRE HYDRANTS INCLUDING ANY RELOCATED HYDRANTS SHALL HAVE STORZ FITTINGS.
34.

ALL PROPOSED PEDESTRIAN CROSSINGS SHALL BE INSTALLED AS PART OF THE PLAT IMPROVEMENTS.
35.

ALL CONNECTIONS TO EXISTING MANHOLES ARE TO BE CORE DRILLED AND USE A LINK SEAL.
36.

ANY FIELD FENCE LOCATED WITHIN THE PROPERTY IS TO BE REMOVED. ANY TREES OR BRUSH ALONG THE NORTH PROPERTY BOUNDARY IS ALSO TO BE REMOVED.
37.

VERIFY THAT ALL EXISTING MANHOLES WITHIN THE PLAT BOUNDARY HAVE A MINIMUM OF ONE 4-INCH ADJUSTING RING TO ALLOW FOR FUTURE ADJUSTMENT.

DATE

07/14/17

AS-BUILT SUBMITTAL

01/09/17

FINAL SUBMITTAL

12/08/16

FOURTH SUBMITTAL

11/08/16

THIRD SUBMITTAL

10/25/16

FIRST SUBMITTAL

9/23/16

REVISIONS

3405 S.E. CROSSROADS DRIVE, SUITE G
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EI: GH

FOX CREEK ESTATES PLAT 9

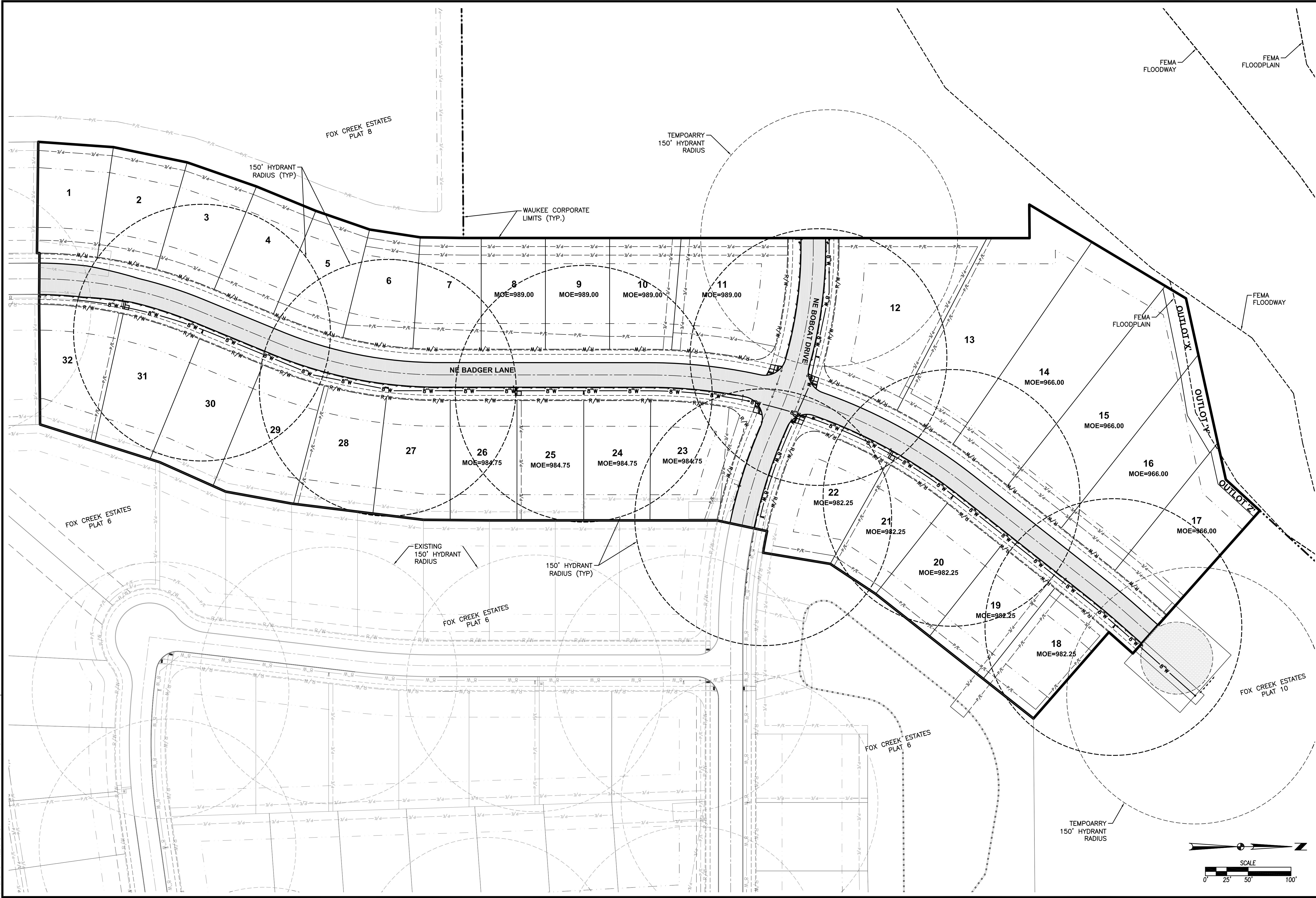
QUANTITIES AND REFERENCE NOTES

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WAUKEE, IOWA

CIVIL DESIGN ADVANTAGE

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CHECKED BY: J. OLENNIK
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FOX CREEK ESTATES PLAT 9

HYDRANT COVERAGE PLAN

WAUKEE, IOWA

CIVIL DESIGN ADVANTAGE

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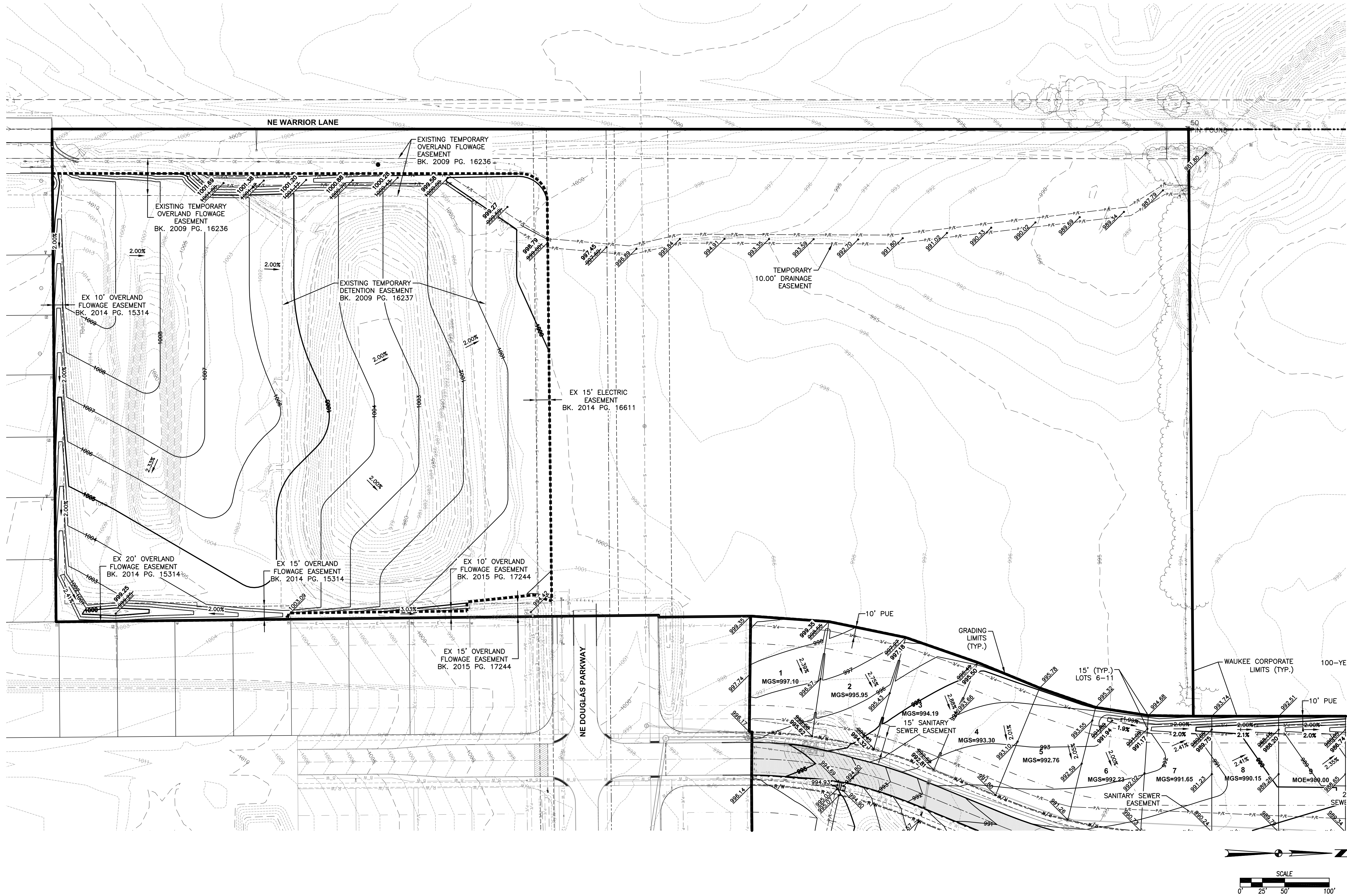
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ENGINEER: EKO
EI: GH

REVISIONS

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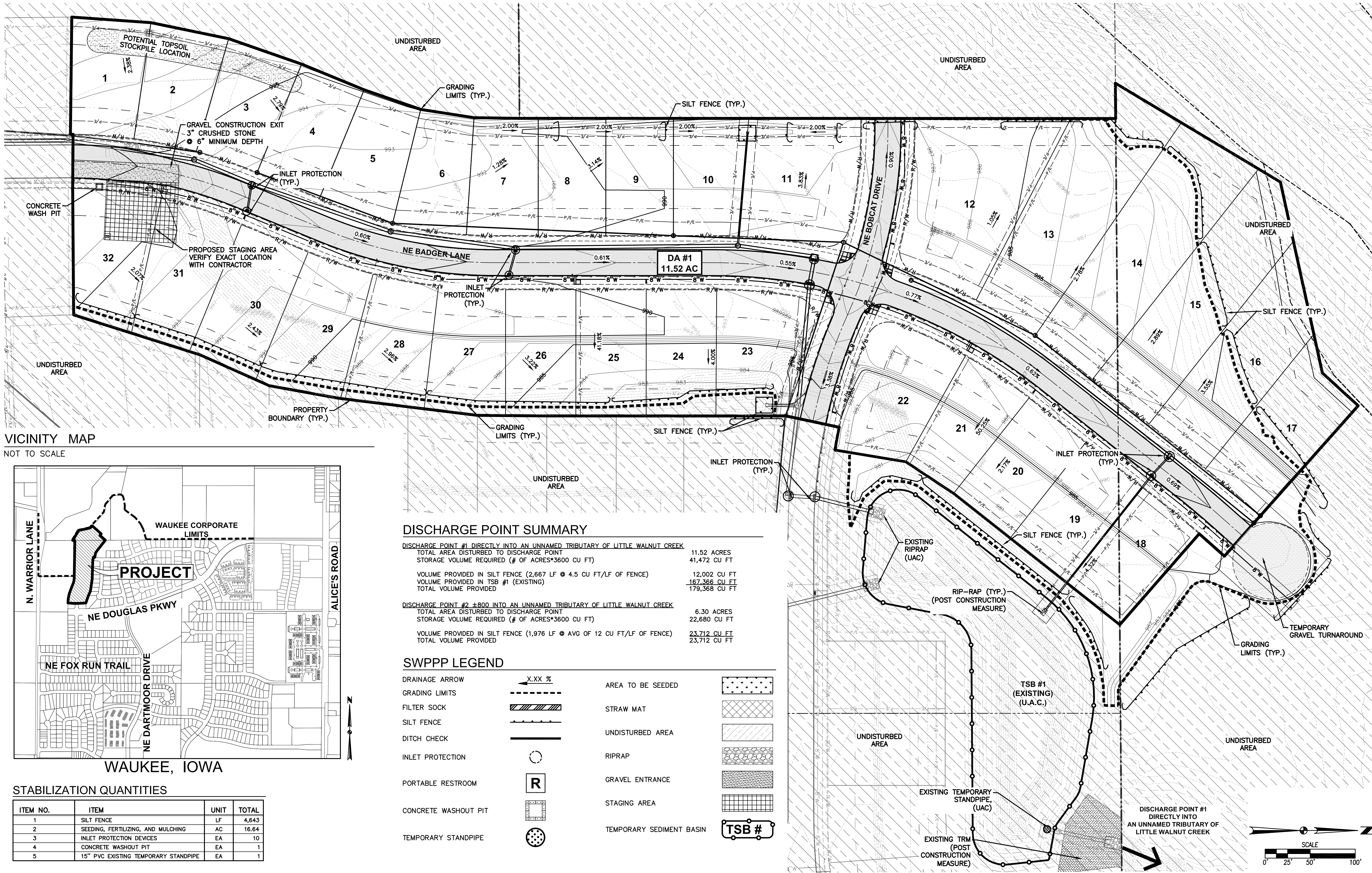
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FOX CREEK ESTATES PLAT 9
GRADING PLAN

7/19
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FOX CREEK ESTATES PLAT 9

EROSION AND SEDIMENT CONTROL PLAN



DISCHARGE POINT SUMMARY

DISCHARGE POINT #1 DIRECTLY INTO AN UNNAMED TRIBUTARY OF LITTLE WALNUT CREEK	
TOTAL AREA DISTURBED TO DISCHARGE POINT	11.52 ACRES
STORAGE VOLUME REQUIRED (# OF ACRES*3600 CU FT)	41,472 CU FT
VOLUME PROVIDED IN SILT FENCE (2,667 LF @ 4.5 CU FT/LF OF FENCE)	12,002 CU FT
VOLUME PROVIDED IN TSB #1 (EXISTING)	167,366 CU FT
TOTAL VOLUME PROVIDED	179,368 CU FT
DISCHARGE POINT #2 ±800 INTO AN UNNAMED TRIBUTARY OF LITTLE WALNUT CREEK	
TOTAL AREA DISTURBED TO DISCHARGE POINT	6.30 ACRES
STORAGE VOLUME REQUIRED (# OF ACRES*3600 CU FT)	22,680 CU FT
VOLUME PROVIDED IN SILT FENCE (1,976 LF @ AVG OF 12 CU FT/LF OF FENCE)	23,712 CU FT
TOTAL VOLUME PROVIDED	23,712 CU FT

SWPPP LEGEND

DRAINAGE ARROW	X.XX %	AREA TO BE SEED	
GRADING LIMITS		STRAW MAT	
FILTER SOCK		UNDISTURBED AREA	
SILT FENCE		RIPRAP	
DITCH CHECK		GRAVEL ENTRANCE	
INLET PROTECTION		STAGING AREA	
PORTABLE RESTROOM	R	TEMPORARY SEDIMENT BASIN	TSB #
CONCRETE WASHOUT PIT			
TEMPORARY STANDPIPE			

STABILIZATION QUANTITIES

ITEM NO.	ITEM	UNIT	TOTAL
1	SILT FENCE	LF	4,643
2	SEEDING, FERTILIZING, AND MULCHING	AC	16.64
3	INLET PROTECTION DEVICES	EA	10
4	CONCRETE WASHOUT PIT	EA	1
5	15" PVC EXISTING TEMPORARY STANDPIPE	EA	1

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10/25/16
9/23/16

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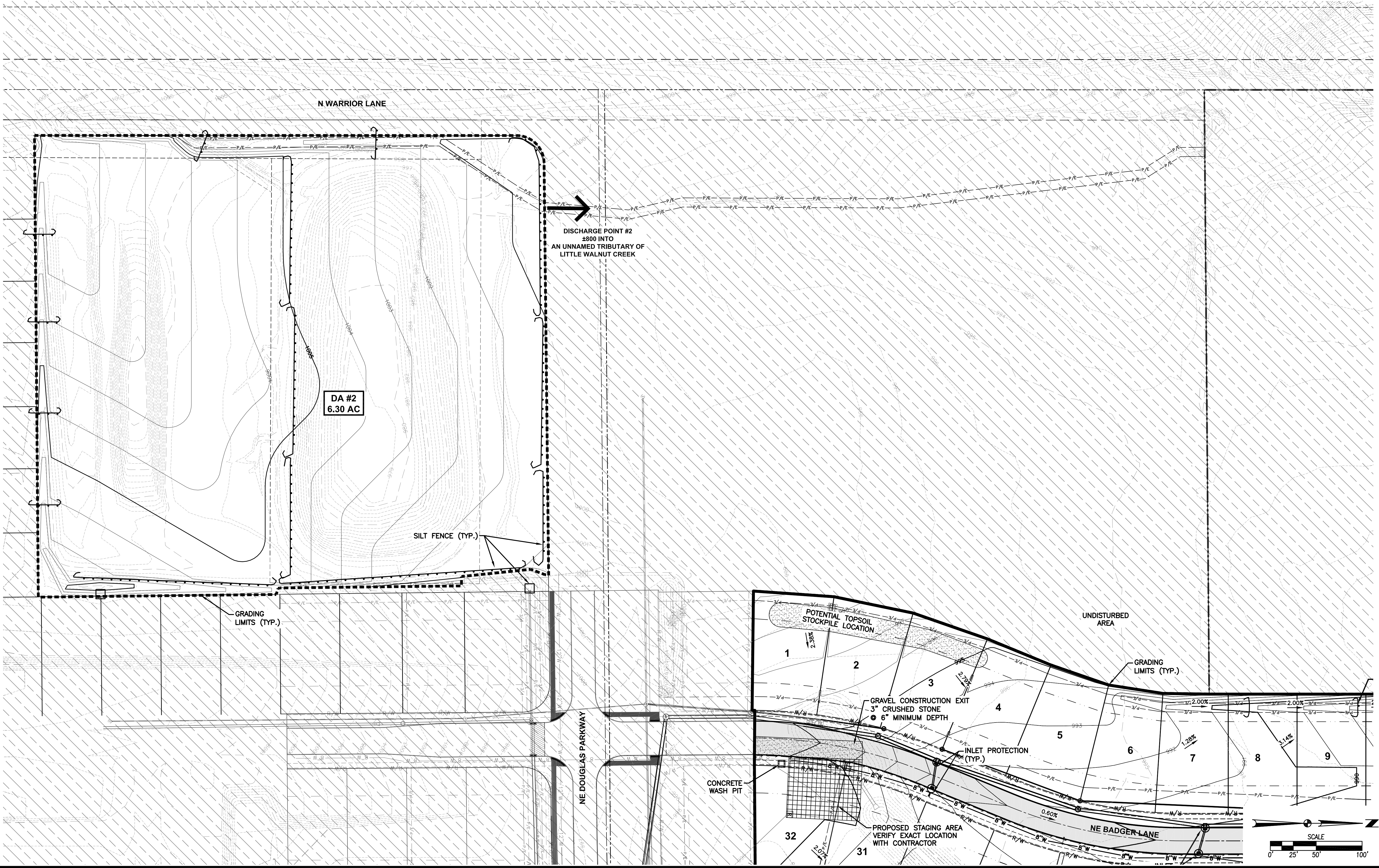
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FOX CREEK ESTATES PLAT 9
EROSION AND SEDIMENT CONTROL PLAN
WAUKEE, IOWA

FOX CREEK ESTATES PLAT 9

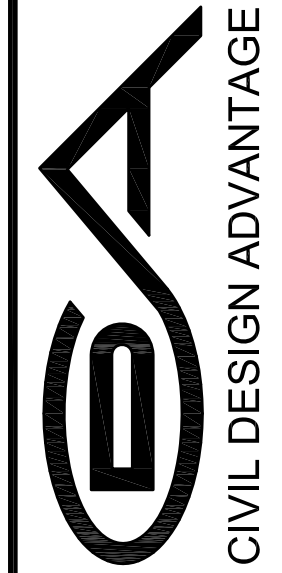
EROSION AND SEDIMENT CONTROL PLAN

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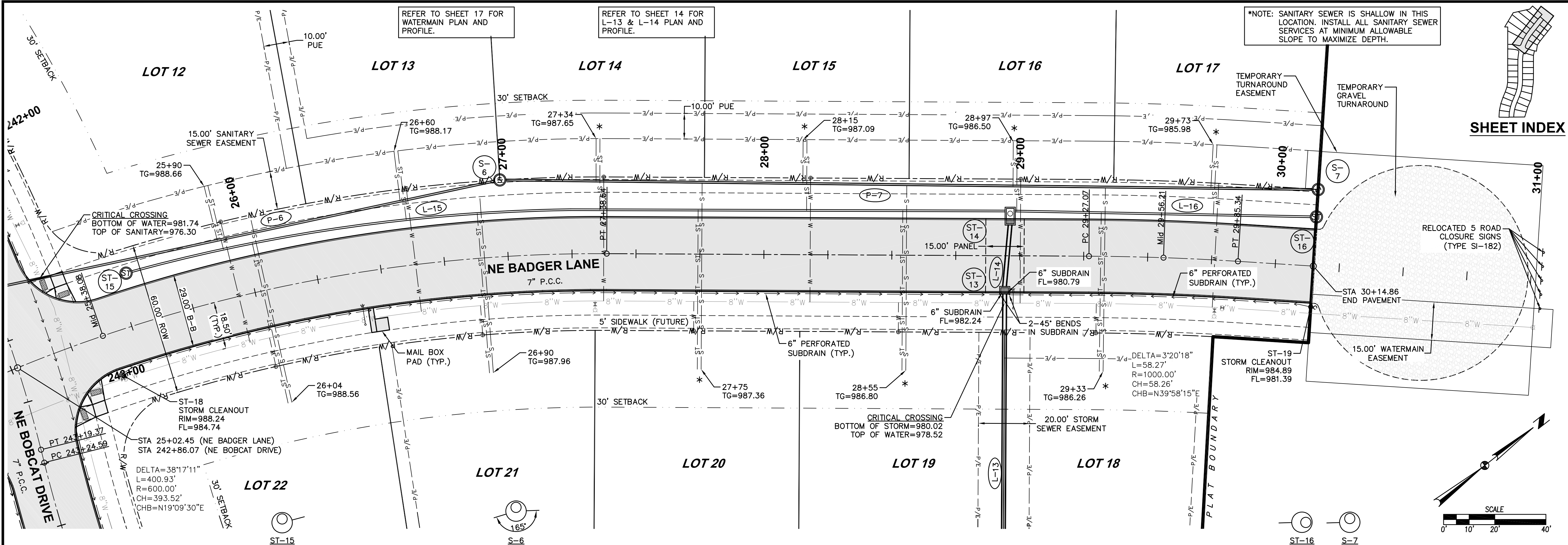
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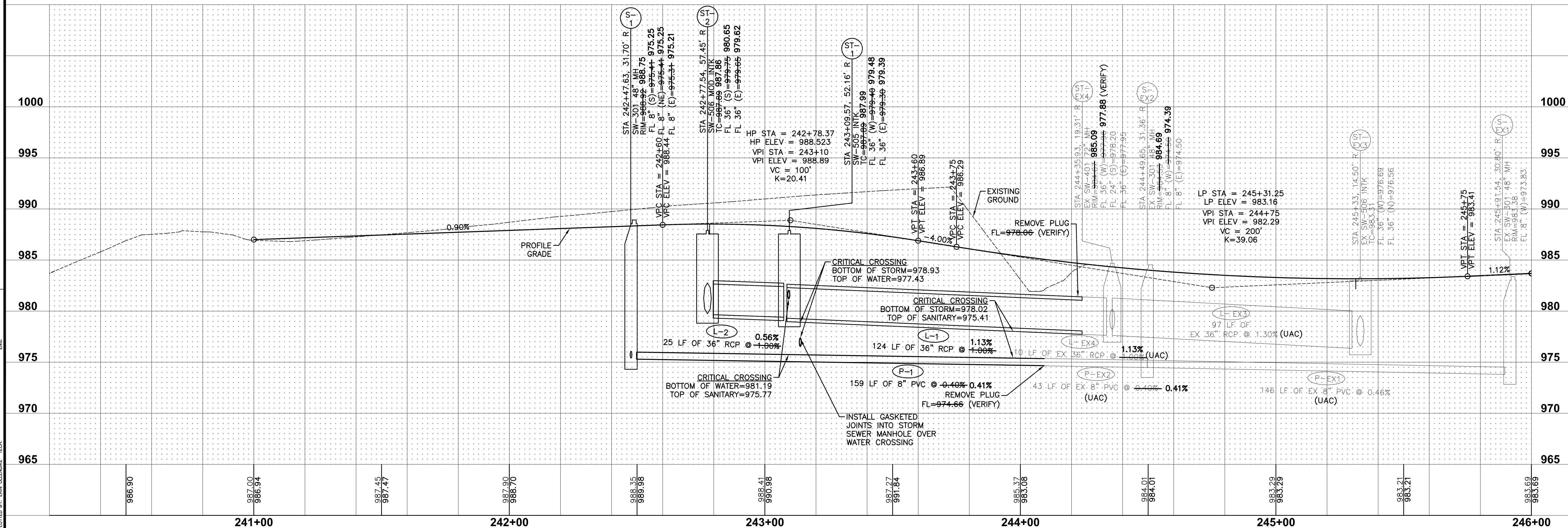
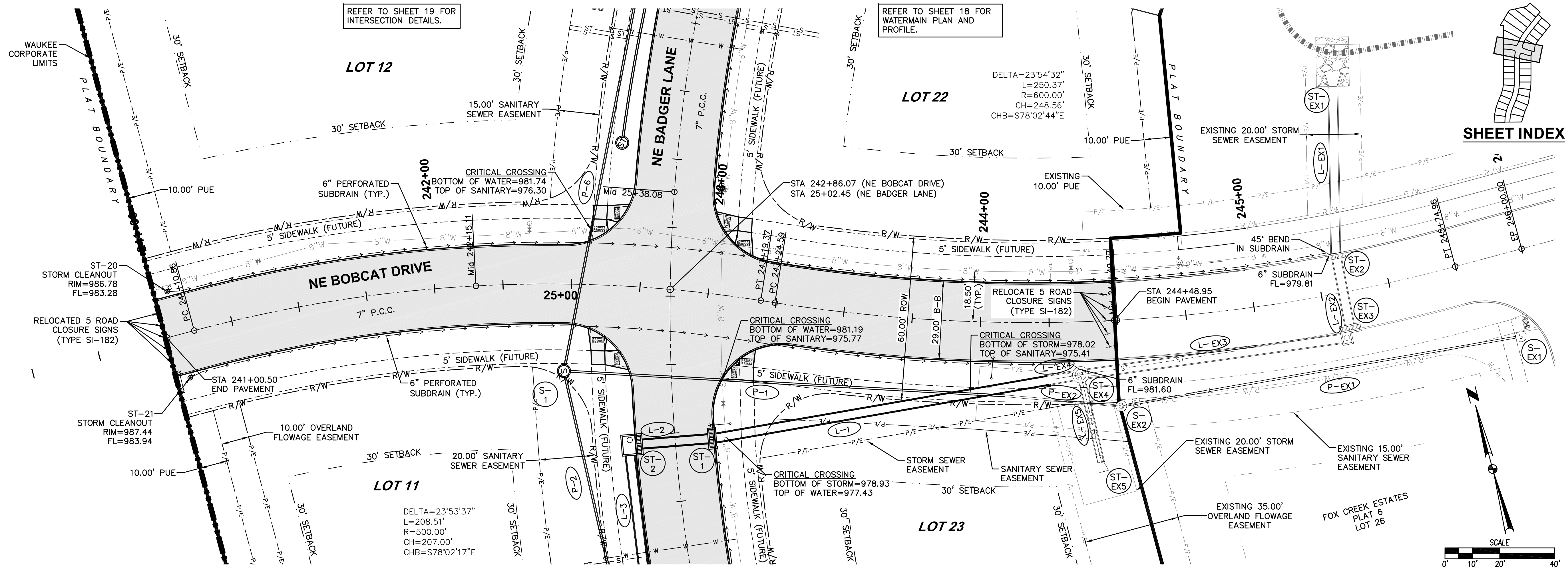
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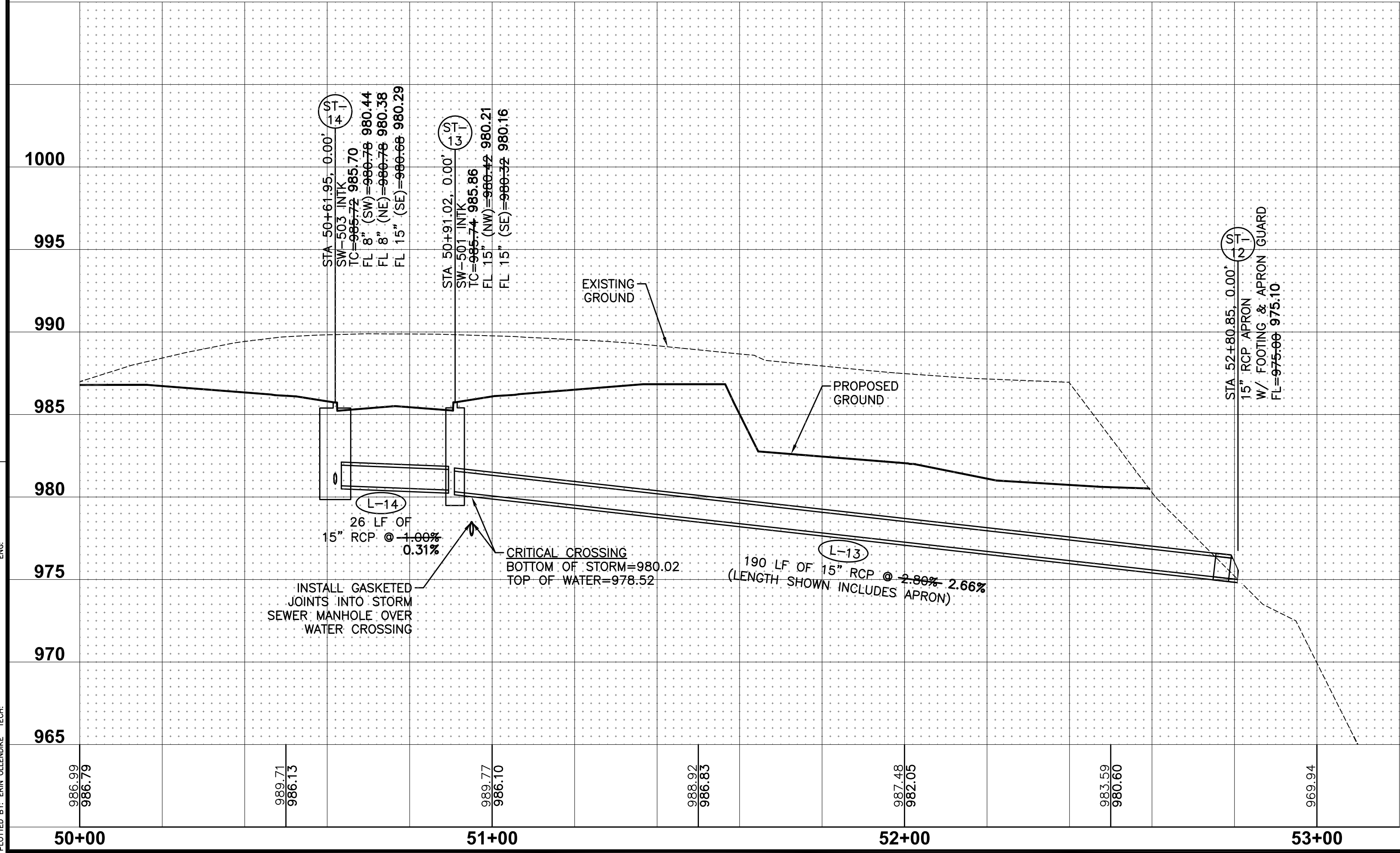
FOX CREEK ESTATES PLAT 9
EROSION AND SEDIMENT CONTROL PLAN
WAUKEE, IOWA

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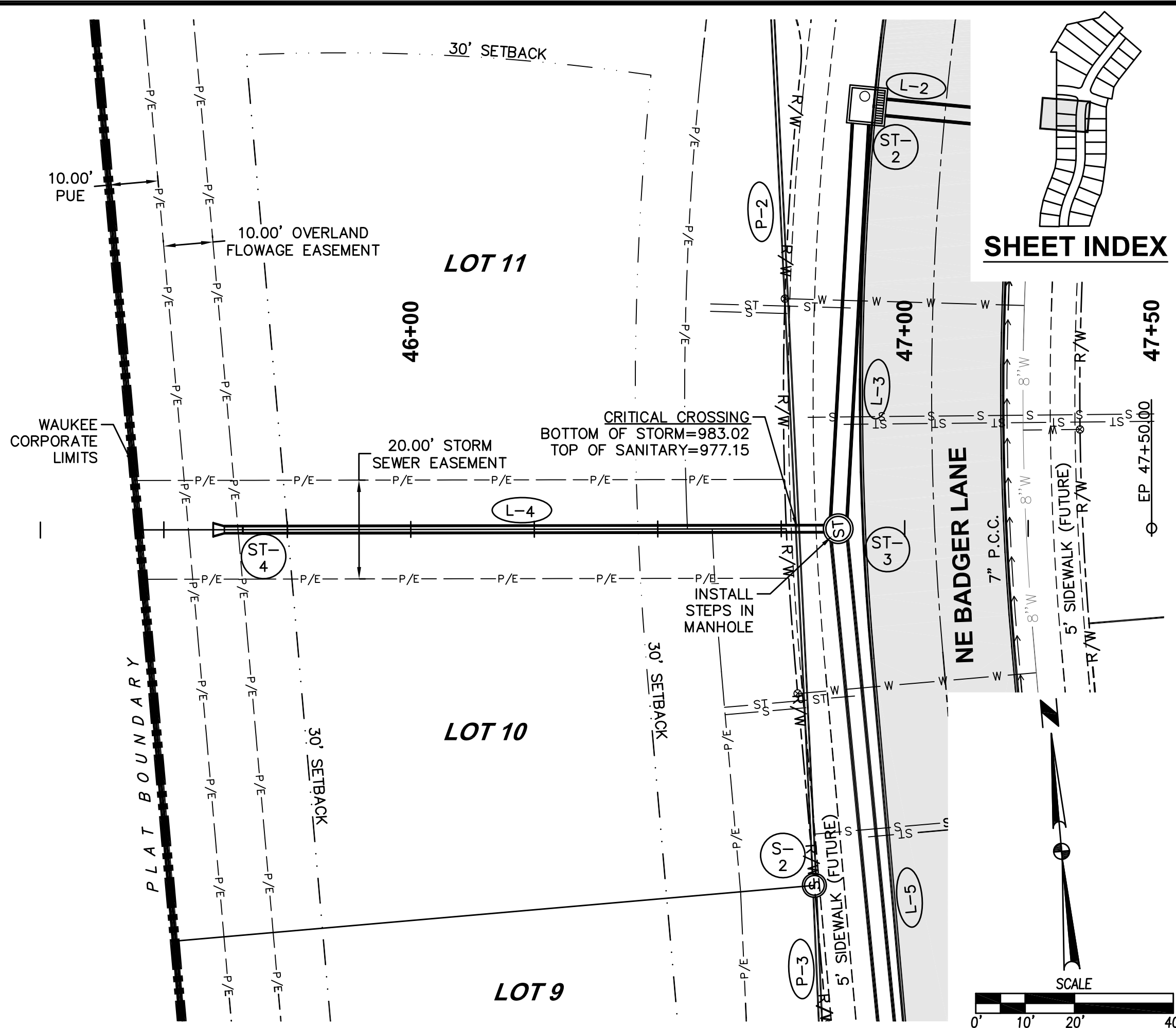
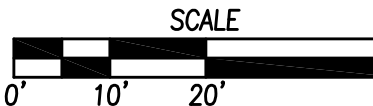




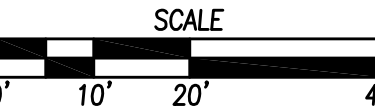
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SHEET INDEX



SHEET INDEX



FOX CREEK ESTATES PLAT 9

STORM & SANITARY SEWER PLAN AND PROFILE

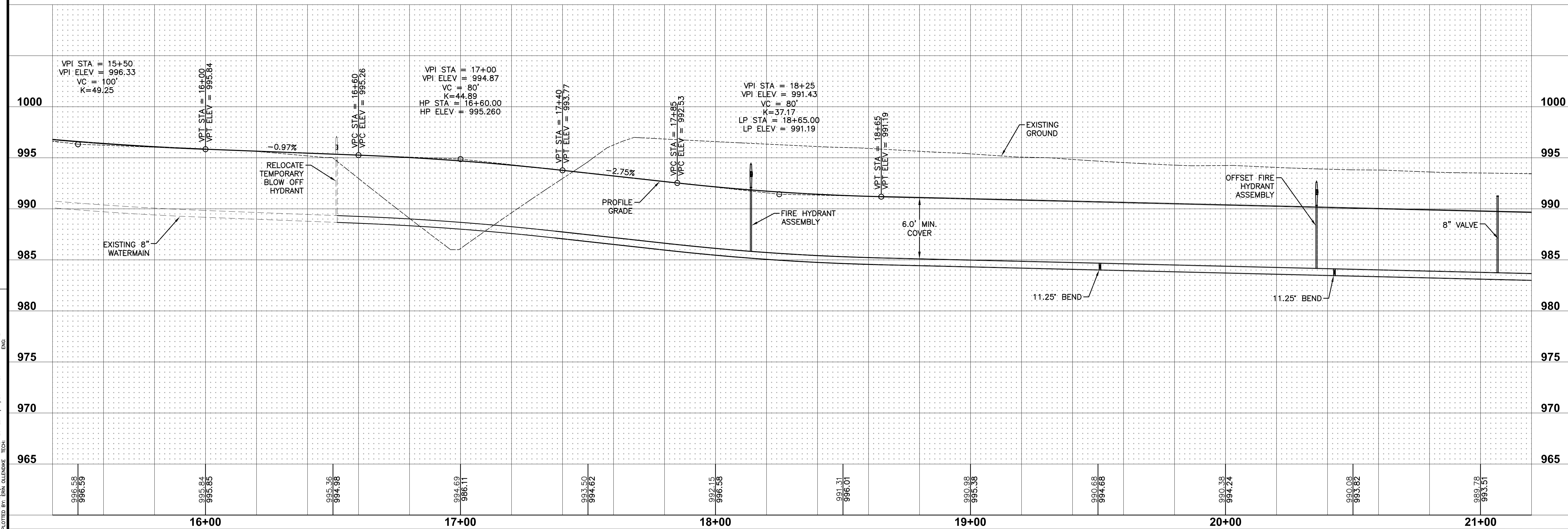
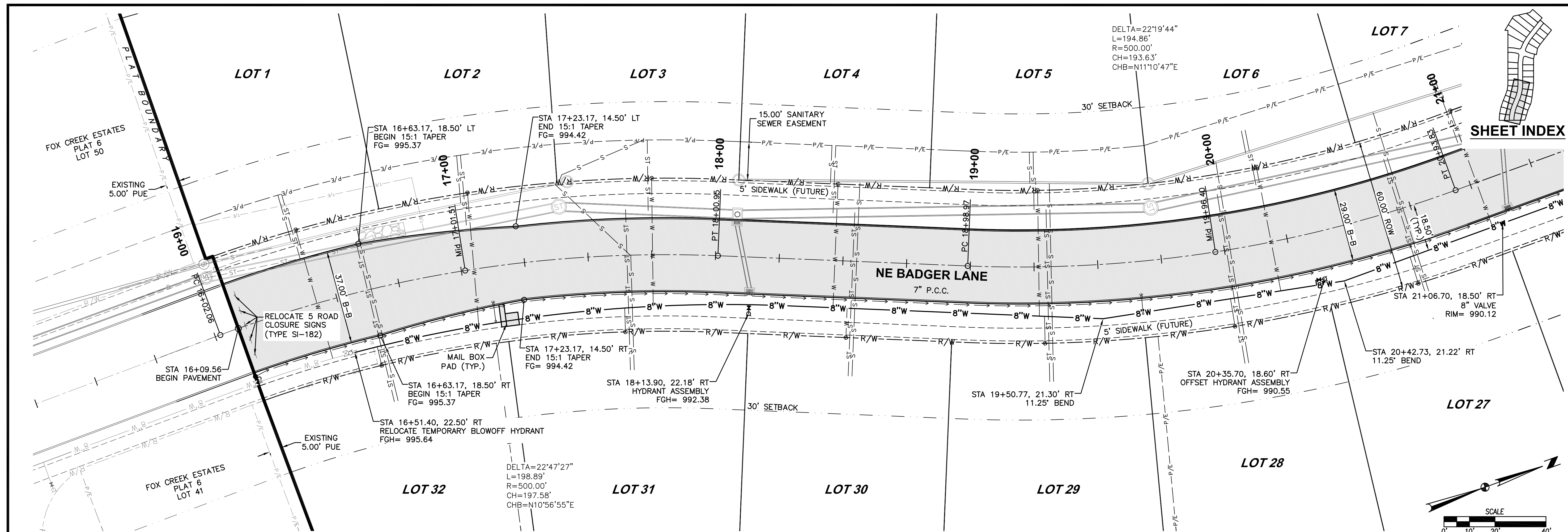
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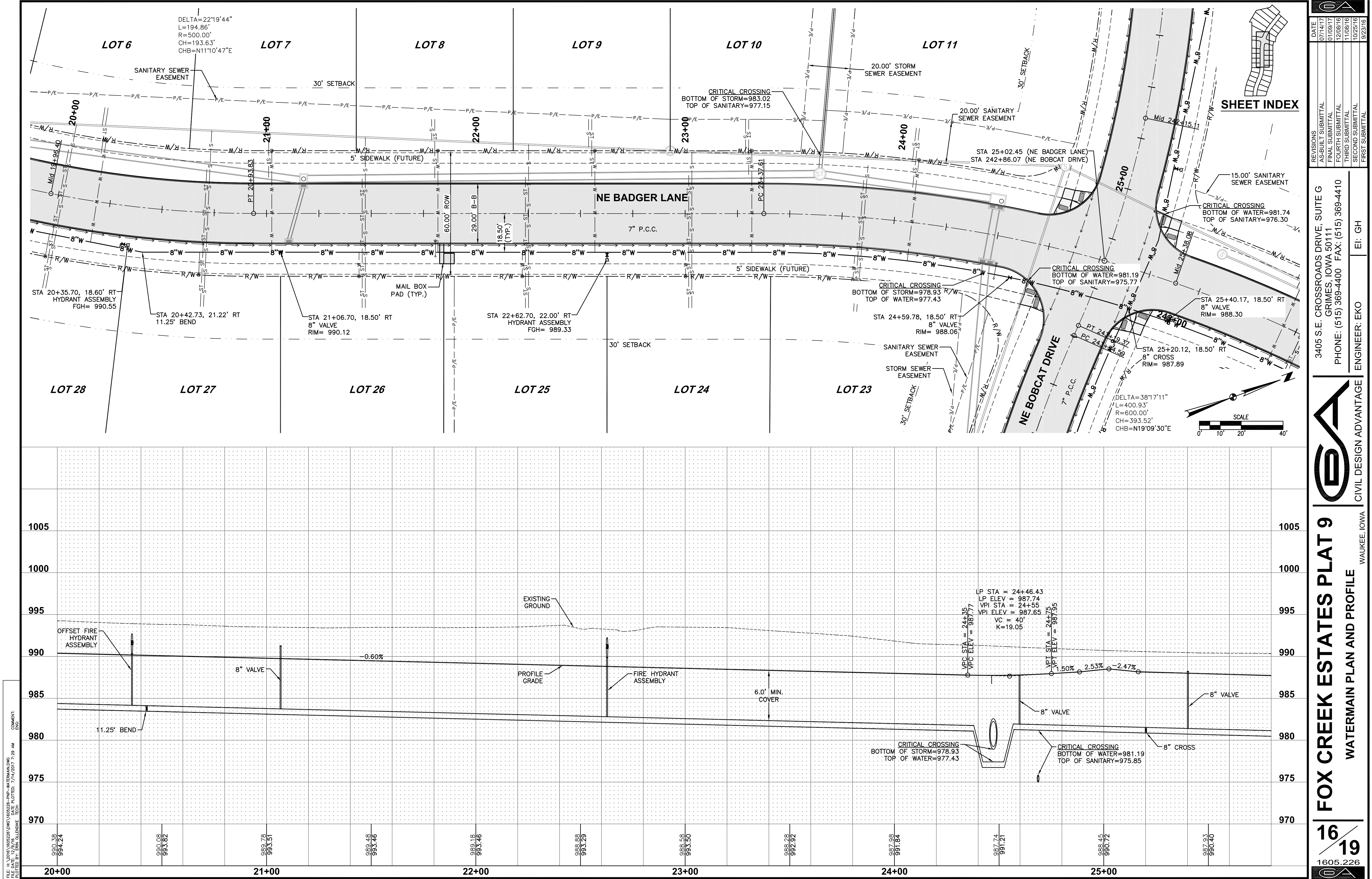
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ENGINEER: EKO

EI: GH

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10/25/16	SECOND SUBMITTAL
9/23/16	FIRST SUBMITTAL





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DATE
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AS-BUILT SUBMITTAL
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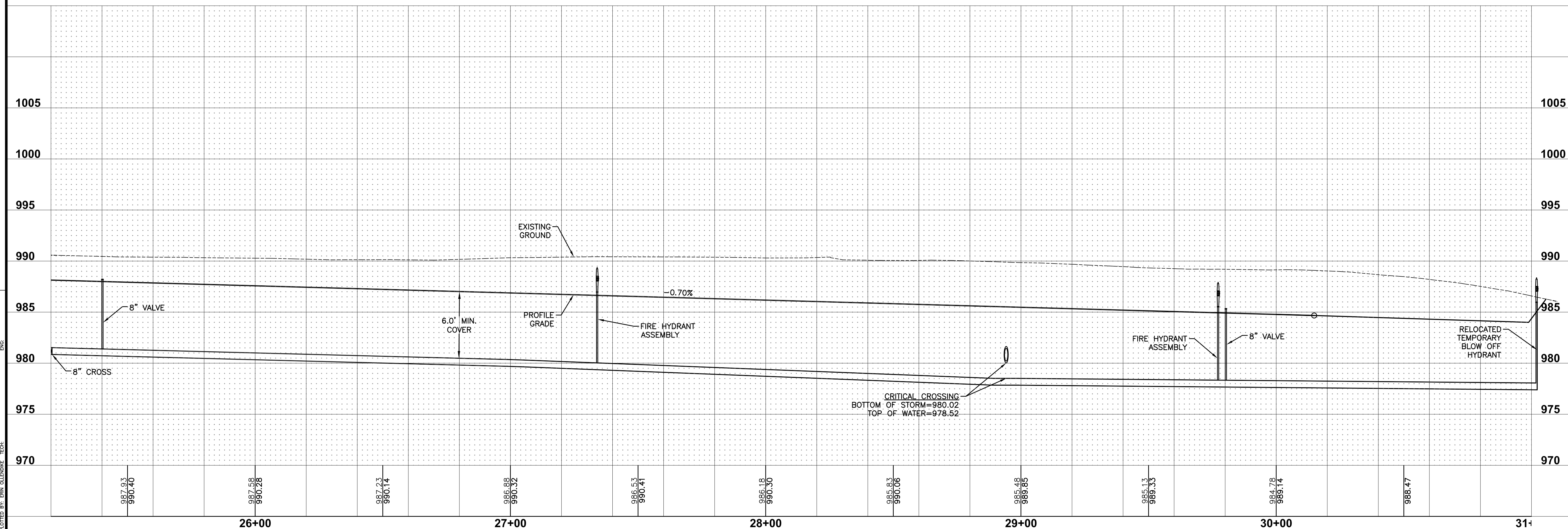
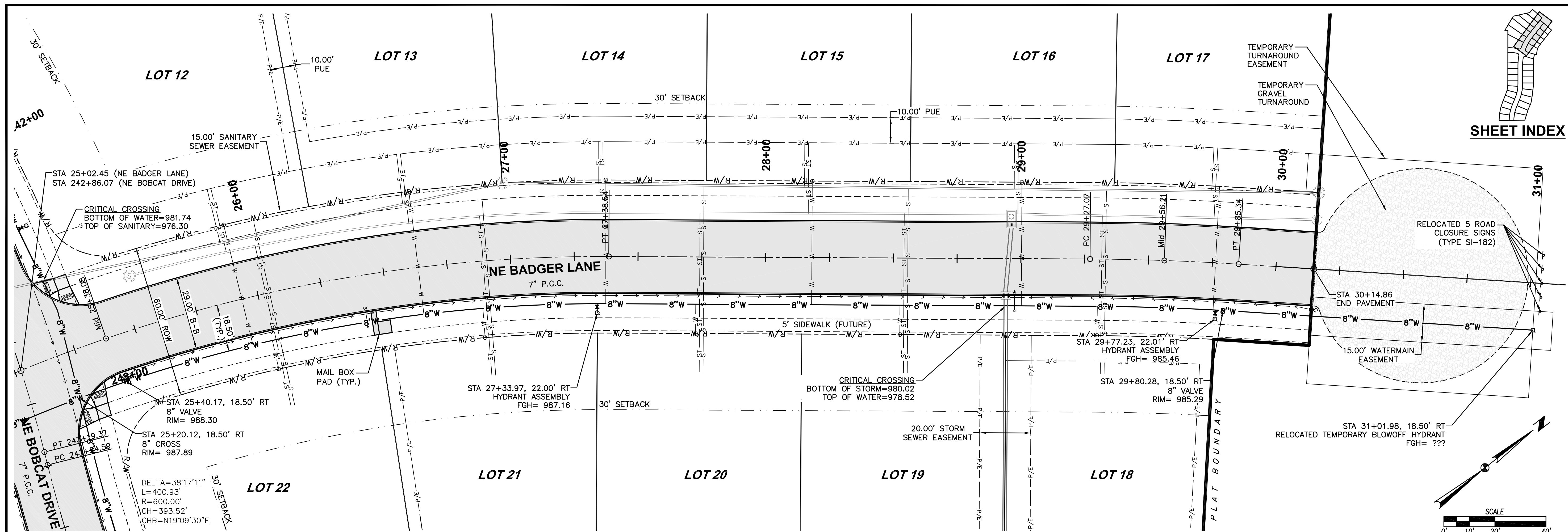
FOX CREEK ESTATES PLAT 9

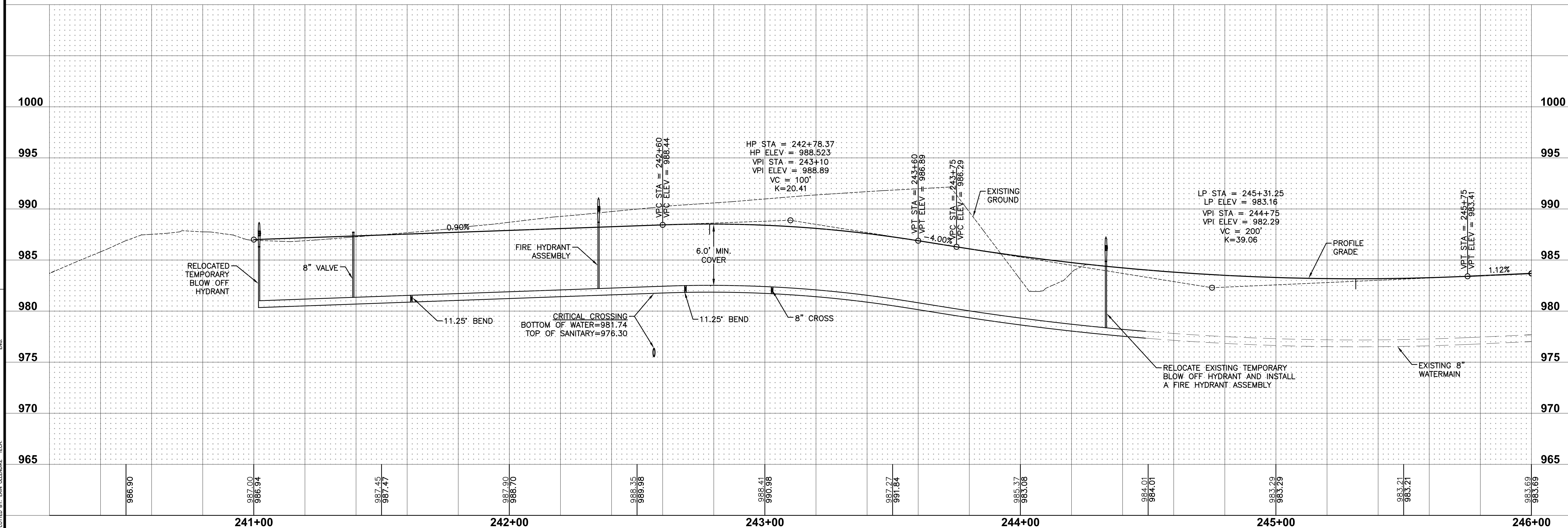
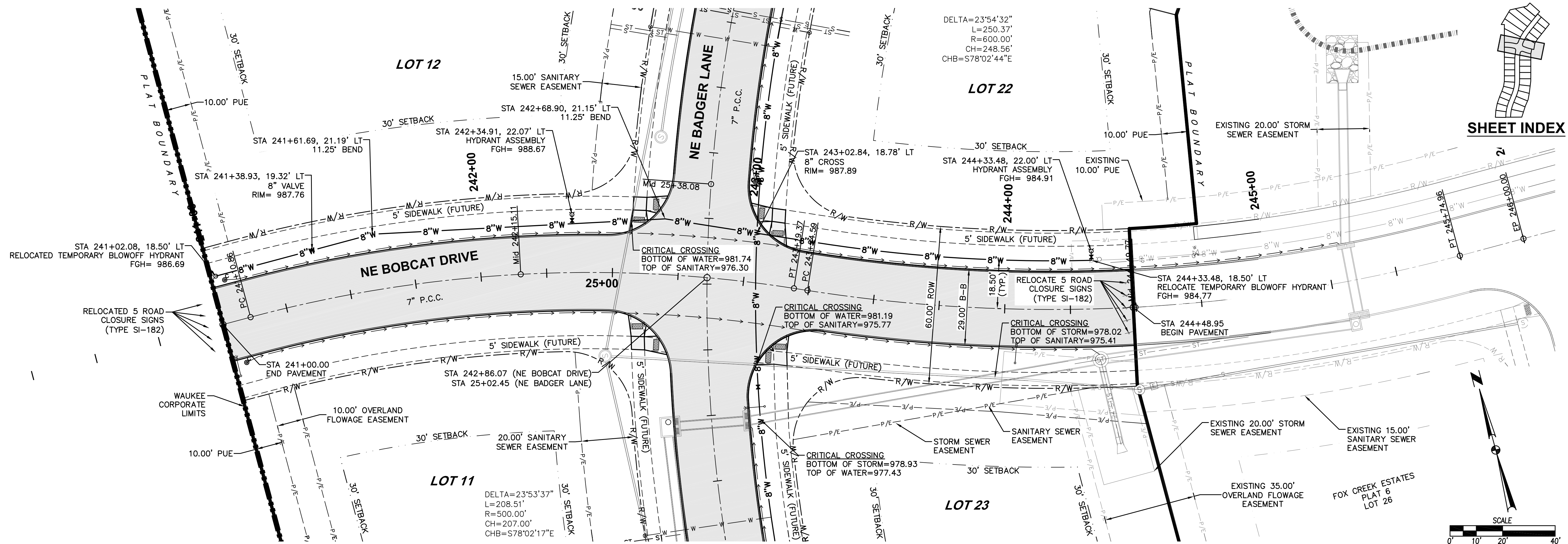
WATERMAIN PLAN AND PROFILE

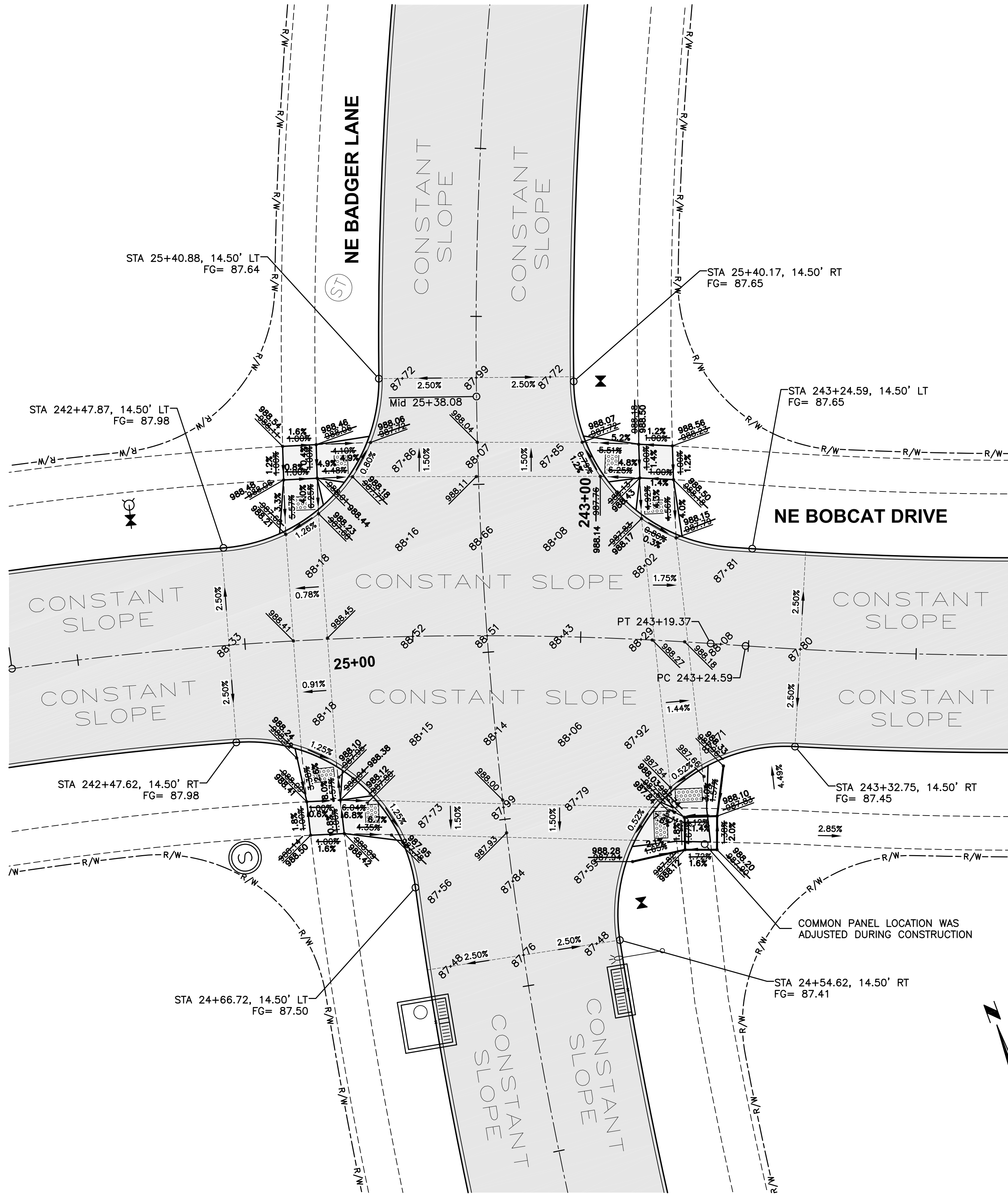
16
19

1605.226

CIVIL DESIGN ADVANTAGE
WAUKEE, IOWA



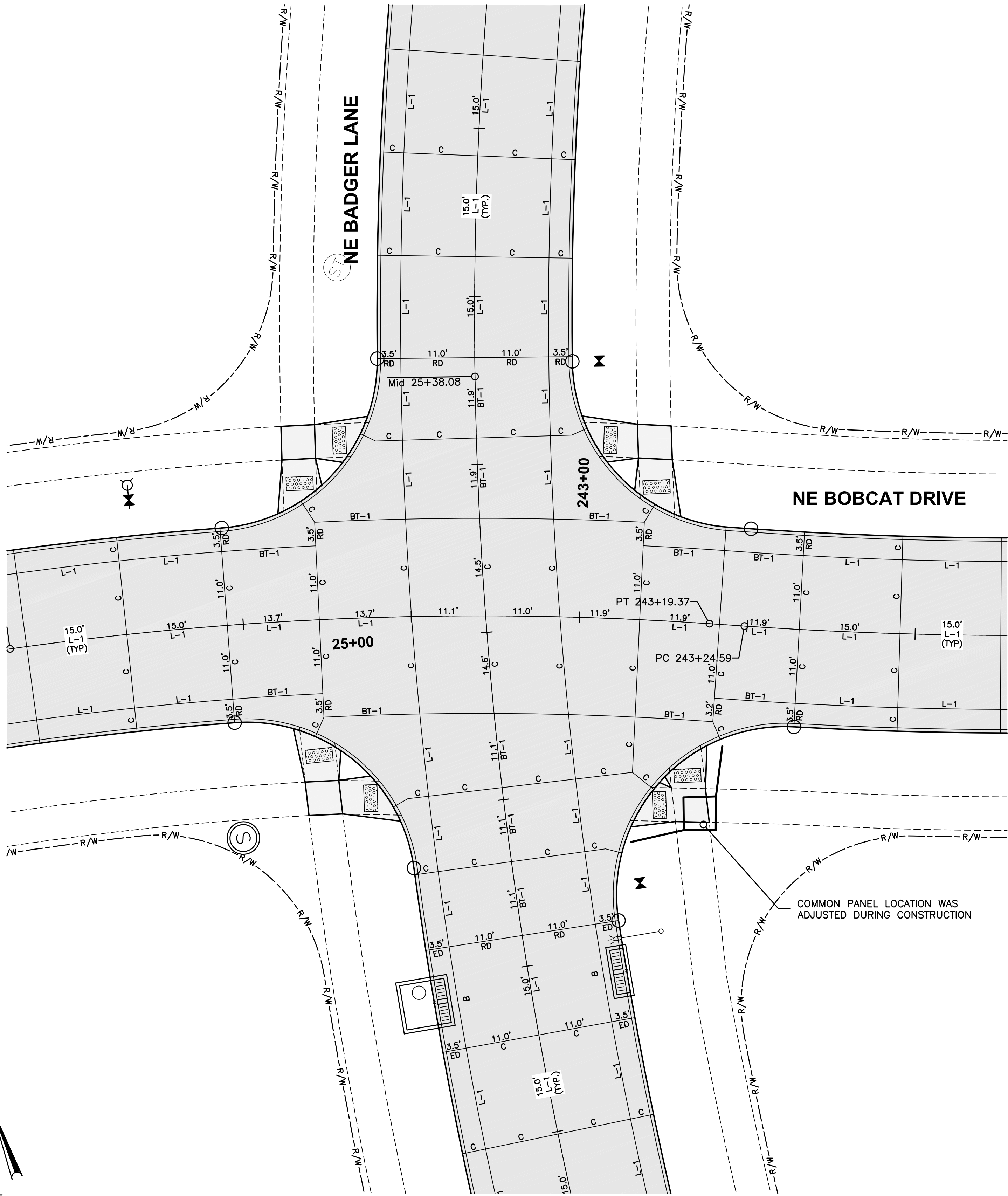
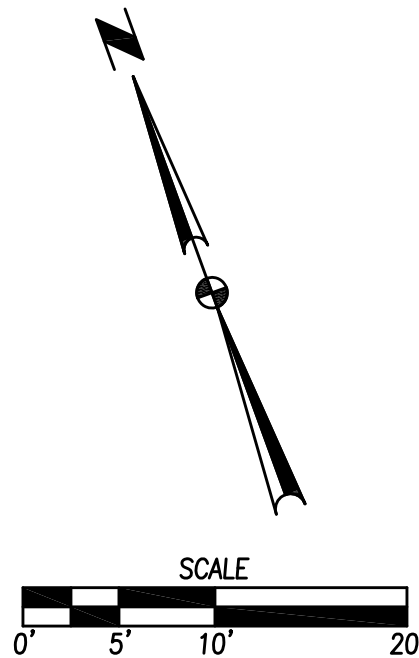




GEOMETRICS AND STAKING LAYOUT

NOTES:

1. ELEVATIONS SHOWN ARE TOP OF SLAB AND/OR FORM GRADE.
2. INSTALL ACCESSIBLE CURB RAMPS AT LOCATIONS SHOWN.
3. REFER TO FIGURE 6010.514 FOR GRATE INTAKE BOXOUT FOR PCC PAVEMENT DETAILS.
4. ADD 900 TO FOUR DIGIT SPOT ELEVATIONS TO EQUAL PROJECT DATUM.



JOINTING LAYOUT