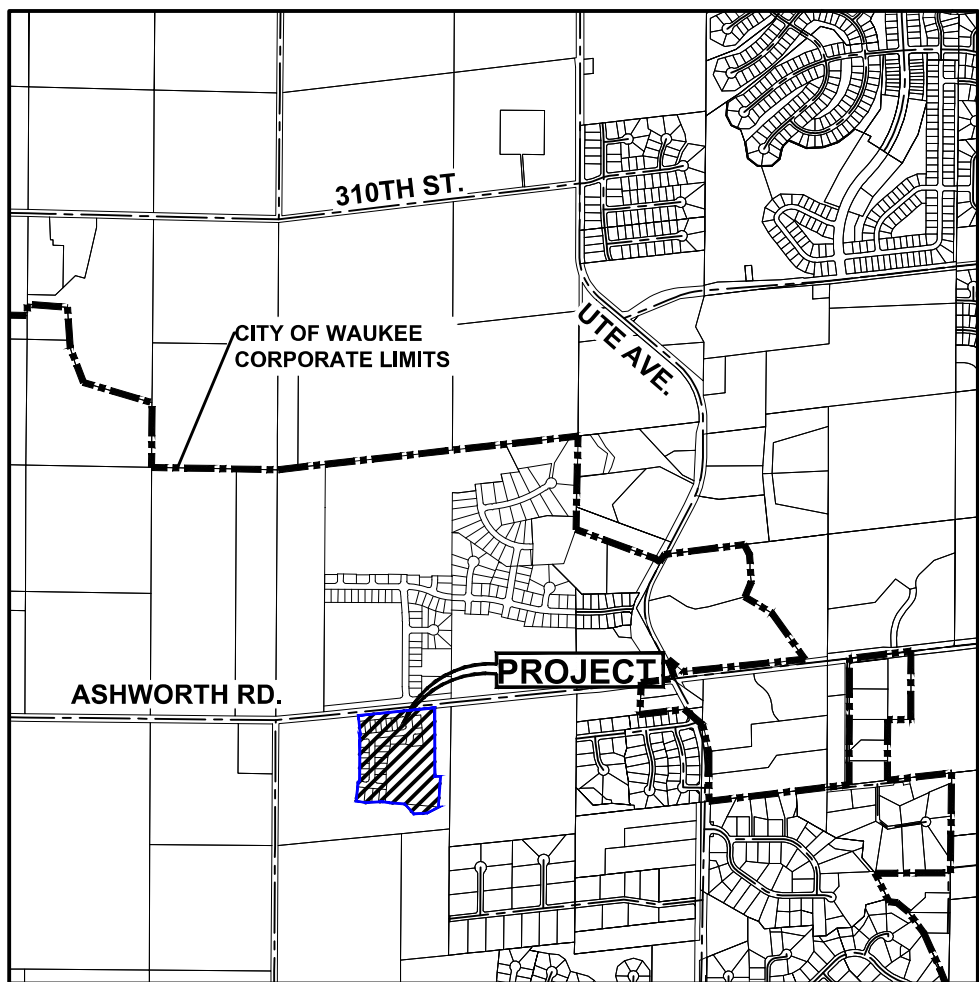


CONSTRUCTION PLANS FOR: HAMILTON RIDGE PLAT 1

WAUKEE, IOWA

VICINITY MAP

NOT TO SCALE



WAUKEE, IOWA

DEVELOPER

LANDMARK DEVELOPMENT SERVICES
9550 HICKMAN ROAD, SUITE 100
CLIVE, IOWA 50325
PH: (515) 986-5994
CONTACT: BILL SPENCER

OWNER

HAMILTON RIDGE, LLC
CONTACT: BILL SPENCER
9550 HICKMAN ROAD, SUITE 100
CLIVE, IA 50325
PH: (515) 986-5994

ENGINEER

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

SURVEYOR

CIVIL DESIGN ADVANTAGE
3405 SE CROSSROADS DRIVE, SUITE G
GRIMES, IOWA 50111
CONTACT: CHARLIE MCGLOTHLEN
EMAIL: CHARLIEM@CDA-ENG.COM
PH. (515) 369-4400
FX. (515) 369-4410

ZONING

R-2: ONE AND TWO-FAMILY
RESIDENTIAL DISTRICT
PD-1: PLANNED UNIT
DEVELOPMENT DISTRICT

DATE OF SURVEY:

APRIL 16, 2020

SUBMITTALS

FIRST SUBMITTAL: 11/10/2020
SECOND SUBMITTAL: 12/22/2020
THIRD SUBMITTAL: 01/19/2021
FINAL SUBMITTAL: 02/01/2021
AS-BUILT SUBMITTAL: 10/25/2021

BULK REGULATIONS

R-2: ONE- AND TWO- FAMILY RESIDENTIAL DISTRICT (LOTS 9, 10
AND 19-22)

FRONT YARD: 30 FEET
SIDE YARD: A TOTAL OF 15 FEET - ONE SIDE MAY BE REDUCED TO
NOT LESS THAN 7 FEET
REAR YARD: 30 FEET

PD-1: PLANNED UNIT DEVELOPMENT DISTRICT WITH UNDERLYING R-2:
ONE- AND TWO- FAMILY RESIDENTIAL DISTRICT (LOTS 1-8, 11-18
AND 23-29)

FRONT YARD: 25 FEET
SIDE YARD: A TOTAL OF 10 FEET - MINIMUM OF 5 FEET EACH SIDE
REAR YARD: 25 FEET

BENCHMARKS

DALLAS COUNTY BM# G121, EAST SIDE OF R16 0.1 MILE SOUTH OF 300TH
STREET.
ELEVATION=1032.82

BURY BOLT ON HYDRANT @ NW CORNER OF DAYBREAK DRIVE & CREST
RIDGE DRIVE.
ELEVATION=1023.95

CONSTRUCTION SCHEDULE

SPRING 2021 - FALL 2021

DEVELOPMENT SUMMARY

TOTAL AREA OF PLAT 1 = 18.54 ACRES (807,592 SF)

R-2 RESIDENTIAL = 9.93 ACRES (432,644 SF)
-LOTS 9, 10, 19-22, PART OF OUTLOT 'Y', OUTLOT 'Z'

PD-1 RESIDENTIAL = 8.61 ACRES (374,947 SF)
-LOTS 8-23, PART OF OUTLOT 'Y'

NOTES

- ANY CHANGES PROPOSED TO THE CONSTRUCTION DRAWINGS DURING CONSTRUCTION SHALL BE APPROVED IN WRITING BY THE DEVELOPMENT SERVICES DEPARTMENT.
- THE CONTRACTOR IS RESPONSIBLE FOR ANY CHANGES MADE DURING CONSTRUCTION THAT HAVE NOT BEEN GRANTED APPROVAL IN WRITING BY THE DEVELOPMENT SERVICES DEPARTMENT.
- 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.
- THE CONTRACTOR IS RESPONSIBLE FOR THE TRAFFIC CONTROL NEEDS FOR PAYING ASHWORTH ROAD. IF ASHWORTH ROAD IS CLOSED DURING CONSTRUCTION, THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING A SIGNED DETOUR ROUTE. A MESSAGE BOARD WILL BE REQUIRED AT LEAST 1 WEEK IN ADVANCE OF ANY LANE CLOSURES.

INDEX OF SHEETS

NO.	DESCRIPTION
1	TITLE SHEET
2-3	TYPICAL SECTIONS AND DETAILS
4	QUANTITIES, GENERAL NOTES AND BID ITEM REFERENCE NOTES
5	HYDRANT COVERAGE AND LANDSCAPE PLAN
6	GRADING PLAN
7	EROSION AND SEDIMENT CONTROL PLAN
8-17	STORM & SANITARY SEWER PLAN AND PROFILE
18-22	WATER MAIN PLAN AND PROFILE
23-26	INTERSECTION DETAILS

LEGAL DESCRIPTION

A PART OF PARCEL '2020-69' AS SHOWN ON THE PLAT OF SURVEY RECORDED IN BOOK 2020, PAGE 23365, BEING A PART OF THE NORTHWEST FRACTIONAL QUARTER OF THE NORTHEAST QUARTER OF SECTION 7, TOWNSHIP 78 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 NORTHWEST CORNER OF SAID SECTION 7; THENCE NORTH 84°1'21" EAST ALONG THE NORTH LINE OF SAID NORTHWEST FRACTIONAL QUARTER, 841.98 FEET TO THE POINT OF BEGINNING; THENCE CONTINUING NORTH 84°1'21" EAST ALONG SAID NORTHERLY LINE, 650.93 FEET; THENCE SOUTH 05°48'39" EAST, 195.05 FEET; THENCE SOUTH 05°48'39" EAST, 44.50 FEET; THENCE SOUTH 84°1'29" WEST, 2.86 FEET; THENCE SOUTH 05°48'31" EAST, 140.50 FEET; THENCE SOUTH 84°1'29" WEST, 119.93 FEET; THENCE NORTHERLY ALONG A CURVE CONCAVE WESTERLY WHOSE RADIUS IS 385.00 FEET, WHOSE ARC LENGTH IS 6.45 FEET AND WHOSE CHORD BEARS NORTH 15°36'42" EAST, 6.45 FEET; THENCE NORTH 74°52'06" WEST, 70.00 FEET; THENCE SOUTH 89°41'30" WEST, 163.79 FEET; THENCE SOUTH 00°17'09" WEST, 17.35 FEET; THENCE SOUTH 12°07'41" WEST, 63.35 FEET; THENCE SOUTH 10°20'48" WEST, 62.97 FEET; THENCE SOUTH 07°38'18" WEST, 62.51 FEET; THENCE SOUTH 07°38'18" WEST, 62.51 FEET; THENCE SOUTH 00°17'09" WEST, 151.52 FEET; THENCE SOUTH 84°59'54" EAST, 5.83 FEET; THENCE SOUTH 05°00'06" WEST, 191.81 FEET; THENCE NORTH 80°54'46" WEST, 25.47 FEET; THENCE SOUTH 87°07'14" WEST, 186.35 FEET; THENCE NORTH 80°44'12" WEST, 97.24 FEET; THENCE NORTH 06°58'59" EAST, 210.09 FEET; THENCE EASTERLY ALONG A CURVE CONCAVE NORTHERLY WHOSE RADIUS IS 970.00 FEET, WHOSE ARC LENGTH IS 12.86 FEET AND WHOSE CHORD BEARS SOUTH 82°02'50" EAST, 12.86 FEET; THENCE NORTH 00°17'09" EAST, 437.35 FEET; THENCE NORTH 05°48'31" WEST, 60.00 FEET; THENCE NORTH 84°1'29" EAST, 11.36 FEET; THENCE NORTH 05°48'31" WEST, 195.02 FEET TO THE POINT OF BEGINNING AND CONTAINING 9.24 ACRES (402,441 SQUARE FEET).

THE PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS OF RECORD.

UTILITY WARNING

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.

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.



CIVIL DESIGN ADVANTAGE

3405 SE CROSSROADS DR. SUITE G GRIMES, IOWA 50111

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

PROJECT NO. 2009.483

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 PROTECTION ELEVATION	MPE
MINIMUM GRADE AT EXPOSED 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	

ALL CONSTRUCTION SHALL CONFORM TO THE PROJECT SPECIFICATIONS AND THE SOILS REPORT PREPARED BY CONSTRUCTION MATERIALS TESTING (CMT).

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 2021 EDITION OF SUDAS STANDARD SPECIFICATIONS SHALL APPLY TO ALL WORK PERFORMED ON THIS PROJECT EXCEPT AS MODIFIED HEREIN.



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

10-25-2021

ERIN K. OLLENDIKE, P.E.

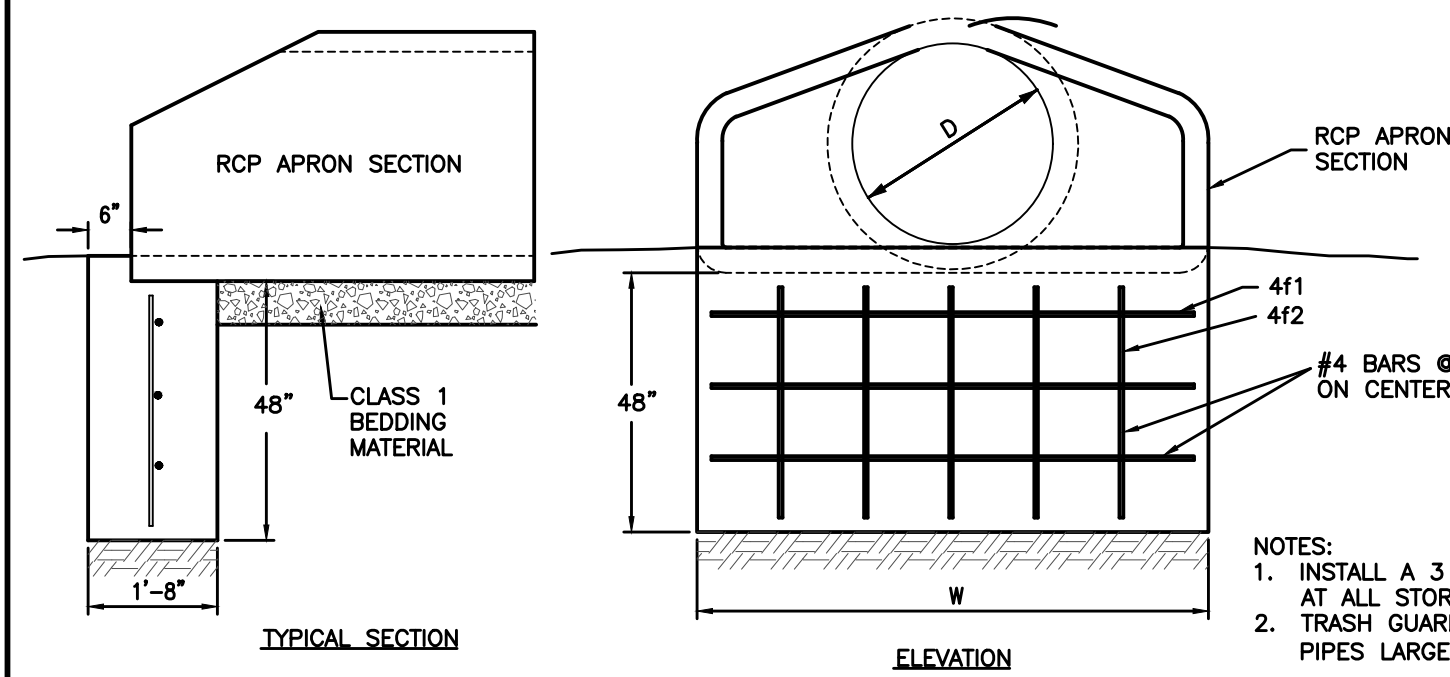
DATE

LICENSE NUMBER 16926

MY LICENSE RENEWAL DATE IS DECEMBER 31, 2021

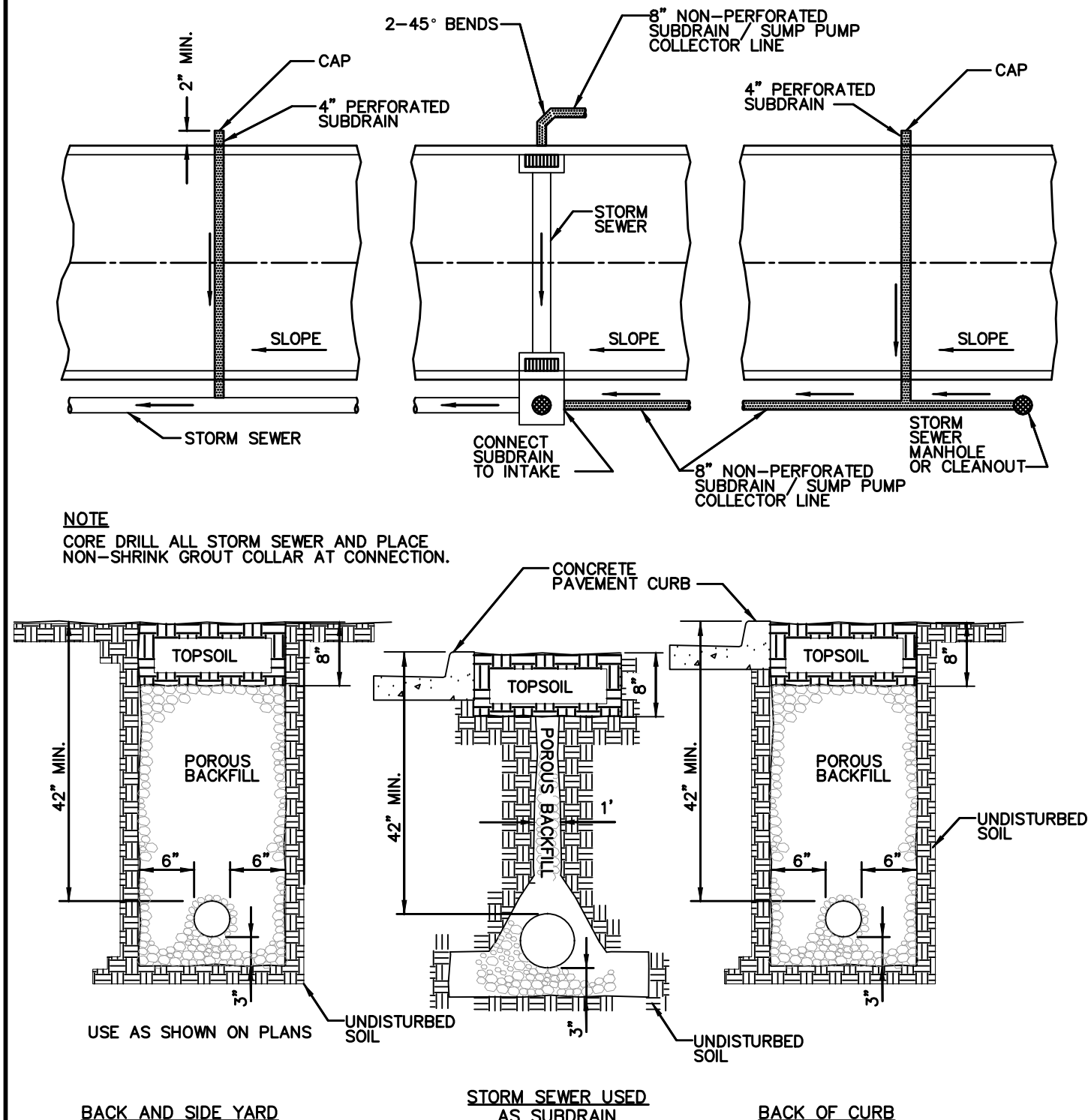
PAGES OR SHEETS COVERED BY THIS SEAL:

SHEETS 1-26

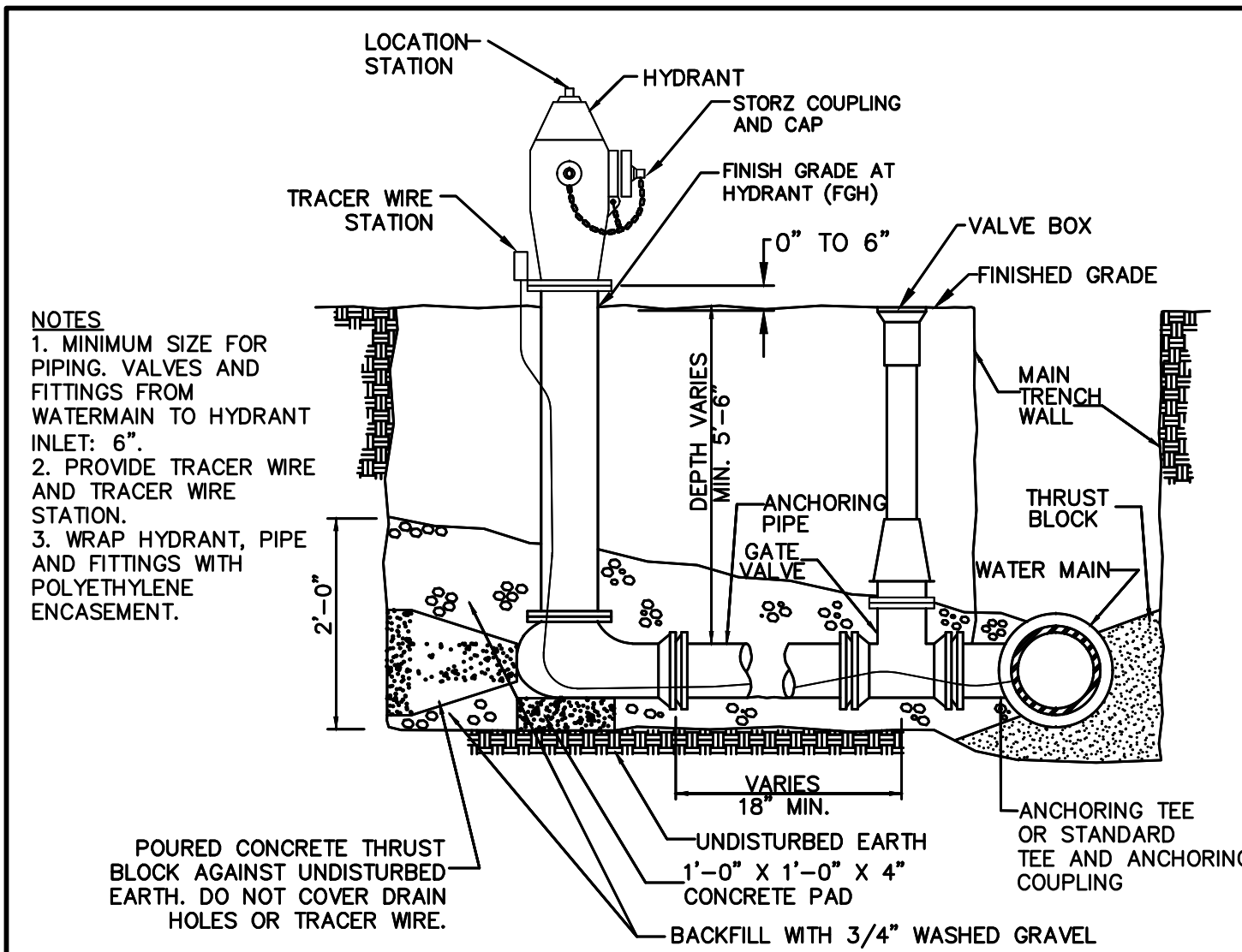


REINFORCING BAR LIST											
D	W	Mark	Size	Length	Count	D	W	Mark	Size	Length	Count
12"	2'-4"	4f1	4	2'-0"	3	48"	7'-10"	4f1	4	7'-6"	3
		4f2	4	3'-8"	2			4f2	4	3'-8"	6
15"	2'-10"	4f1	4	2'-6"	3	54"	8'-5"	4f1	4	8'-1"	3
		4f2	4	3'-8"	2			4f2	4	3'-8"	6
18"	3'-5"	4f1	4	3'-1"	3	60"	8'-11"	4f1	4	8'-7"	3
		4f2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

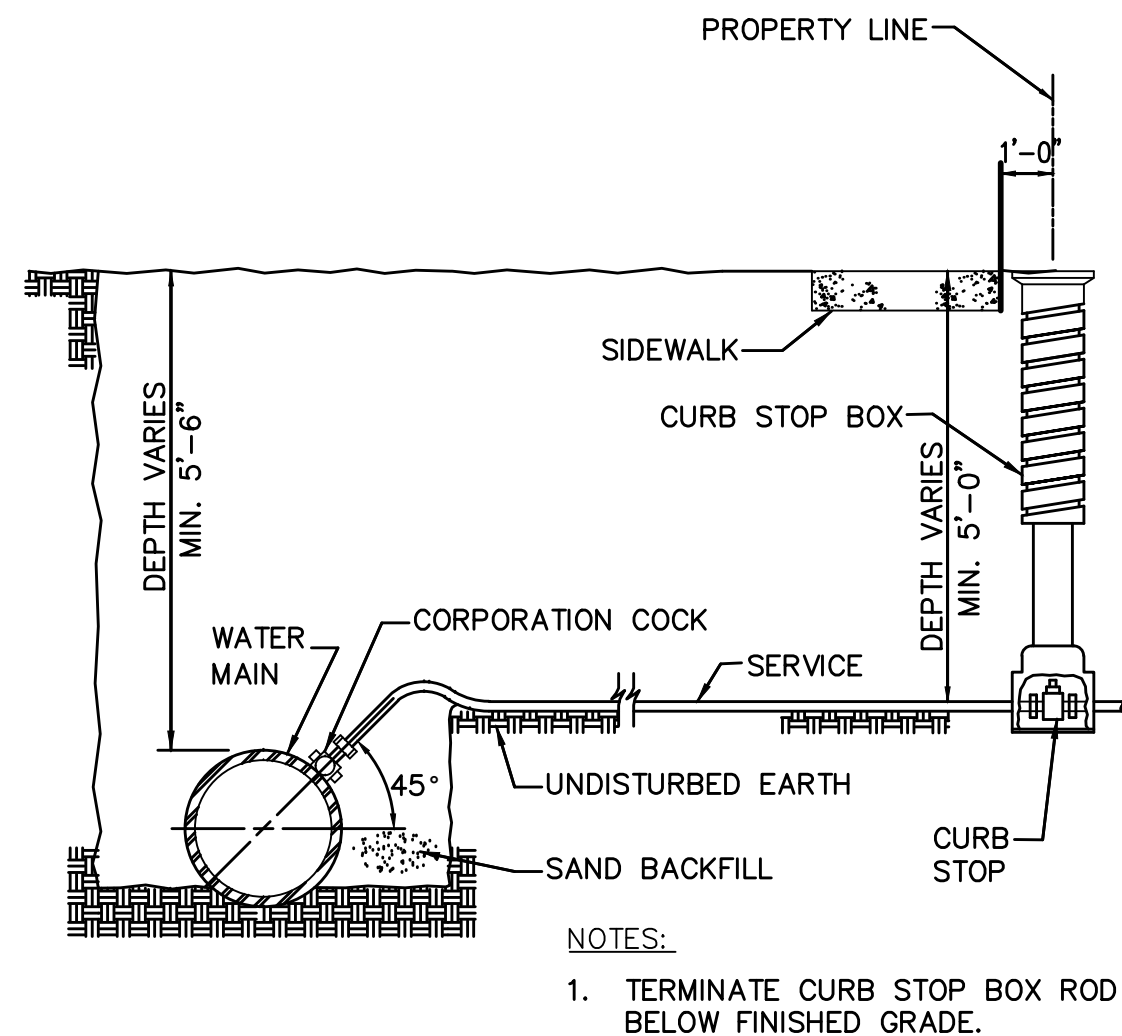
RCP APRON FOOTING DETAIL
NOT TO SCALE



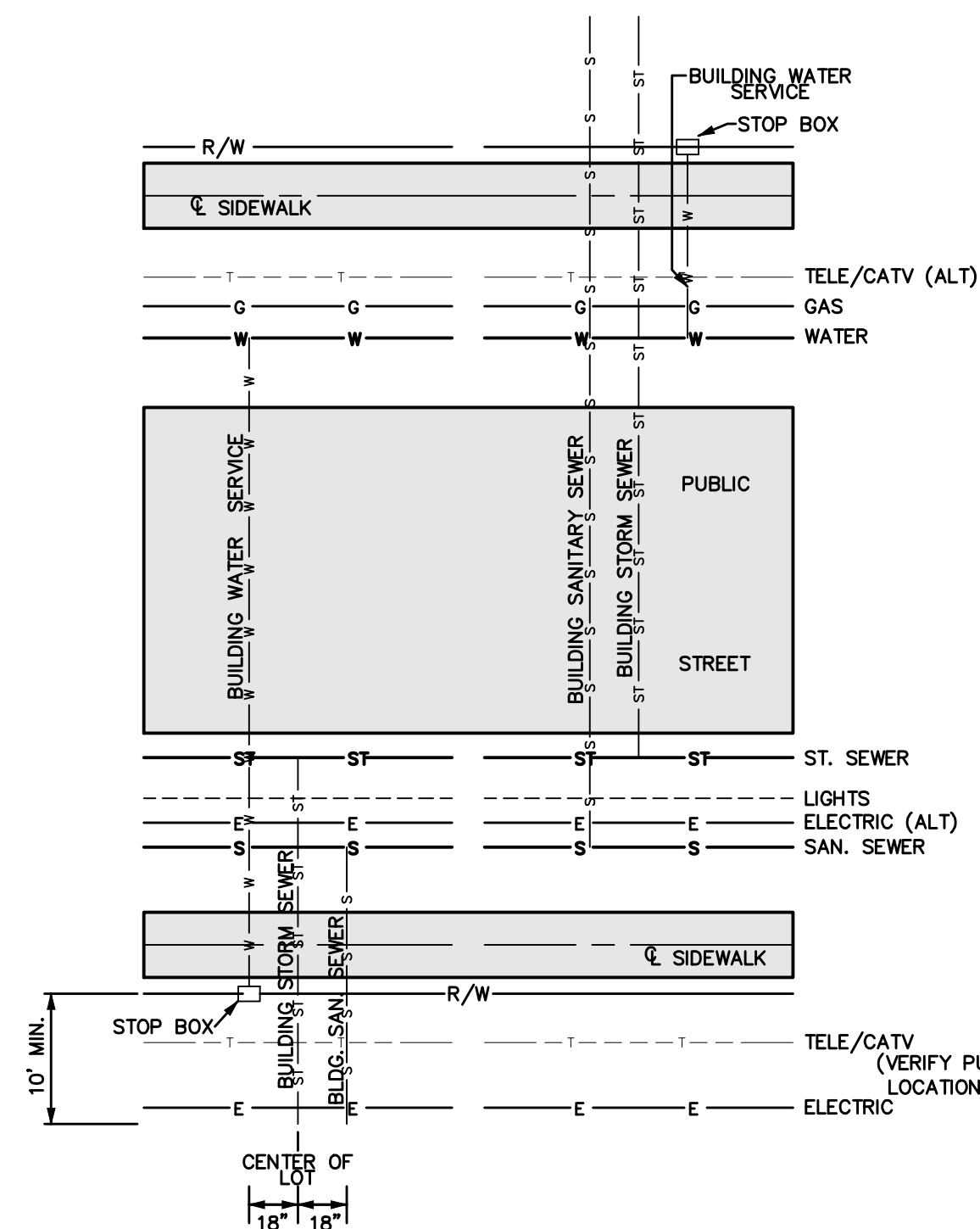
6" PERFORATED SUBDRAIN



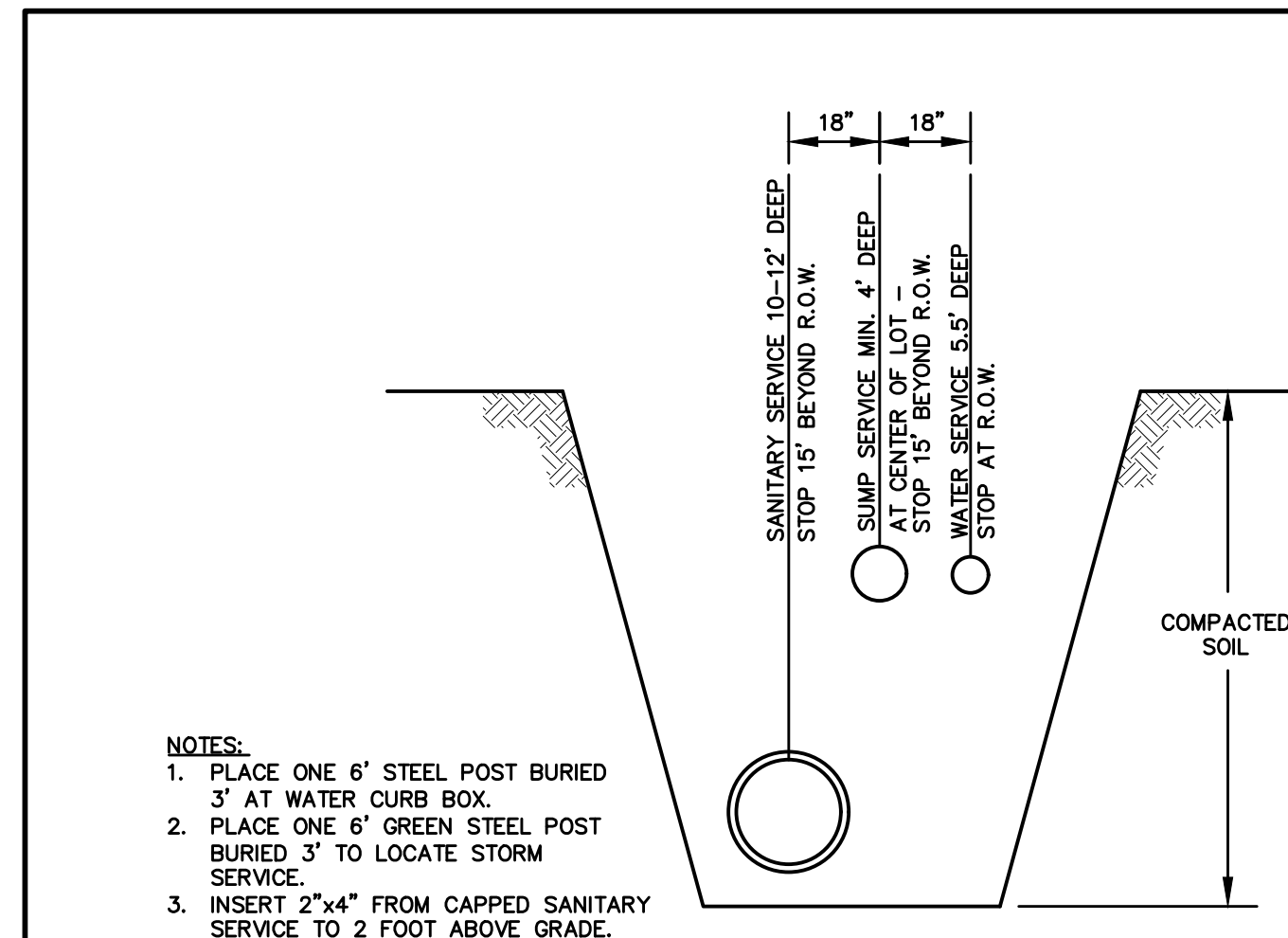
HYDRANT ASSEMBLY DETAIL
NOT TO SCALE



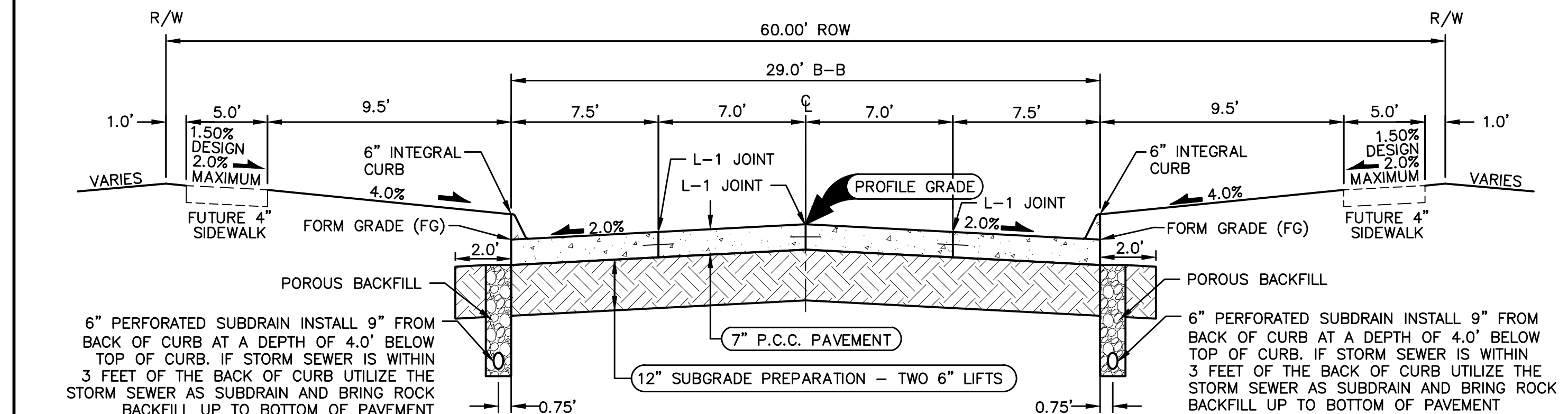
WATER SERVICE CONNECTION



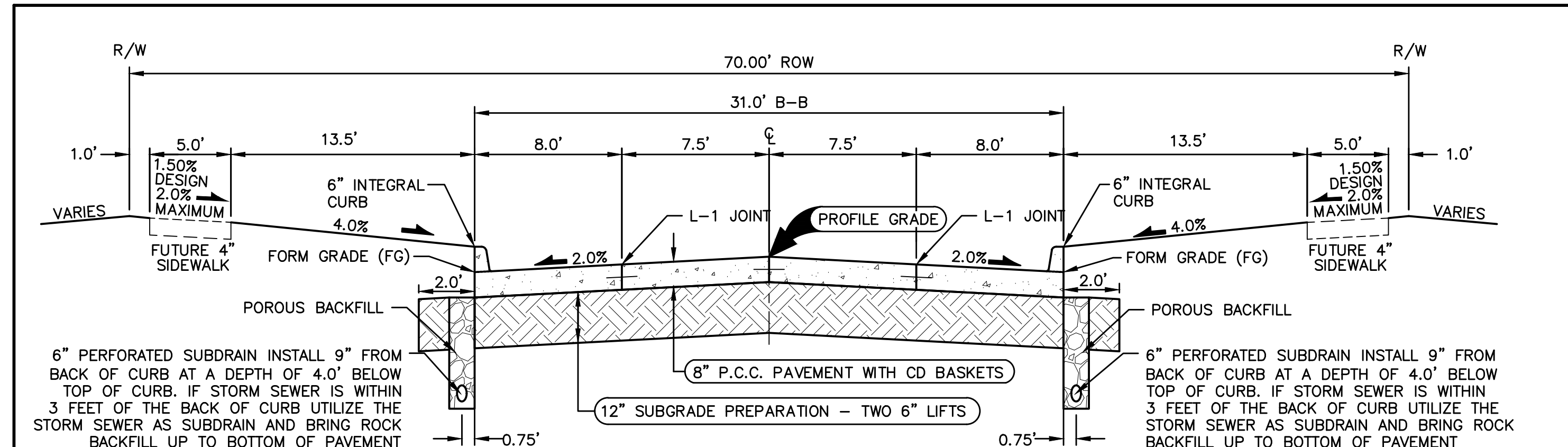
**CITY OF WAUKEE
UTILITY SERVICE LOCATIONS**
NOT TO SCALE



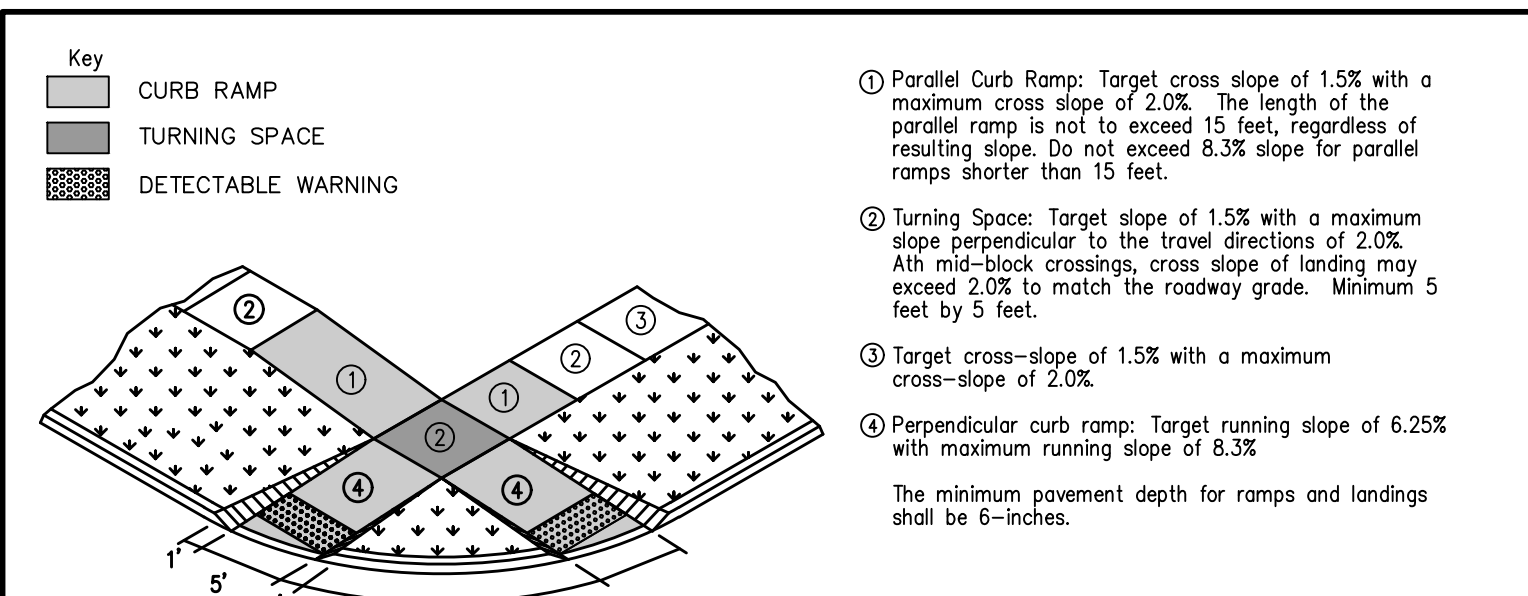
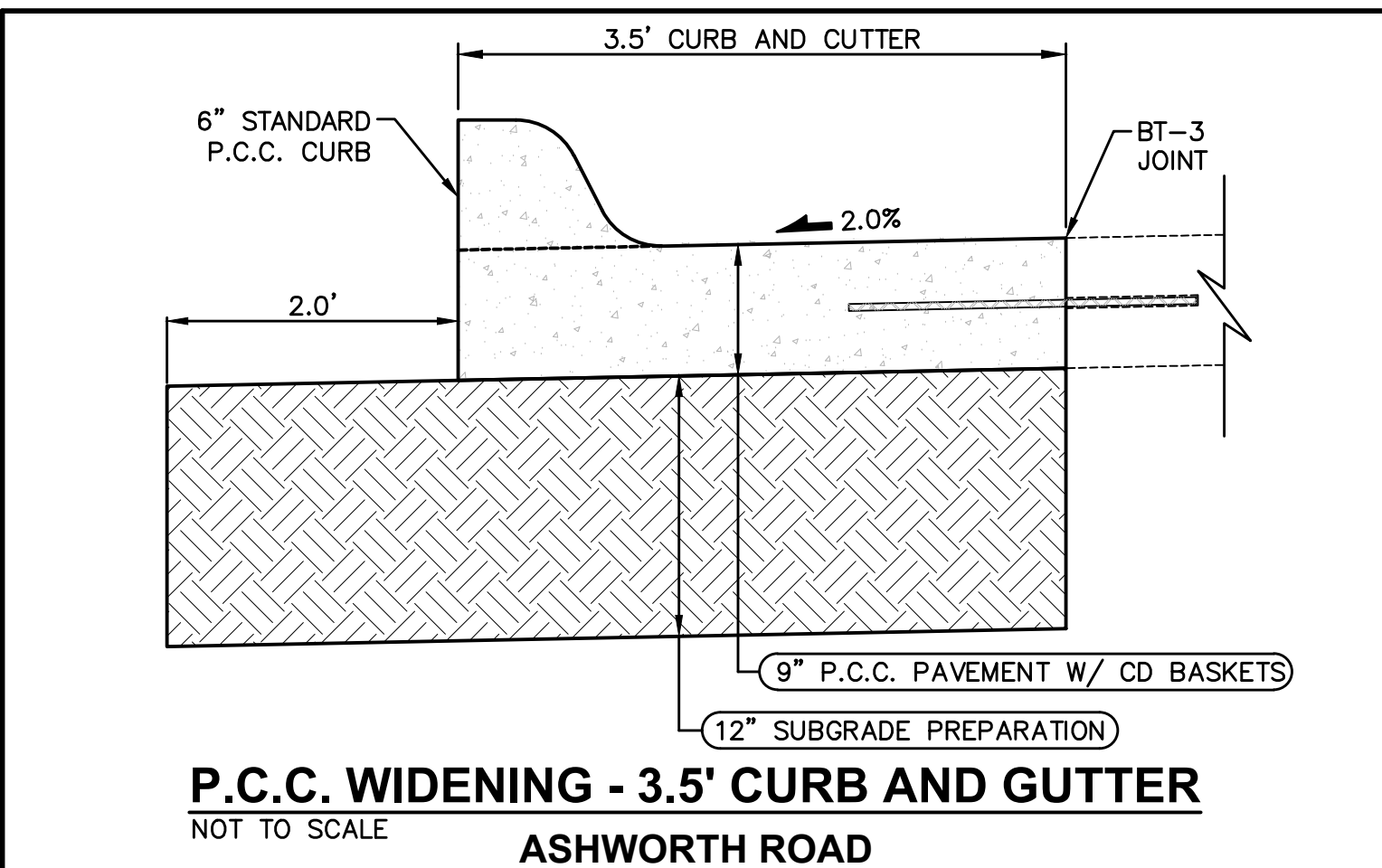
SERVICE LOCATION DETAIL
NOT TO SCALE



29' B/B P.C.C. ROADWAY WITH 60' R.O.W.
HAMILTON ROAD, DARLING ROAD, AND HARRINGTON WAY

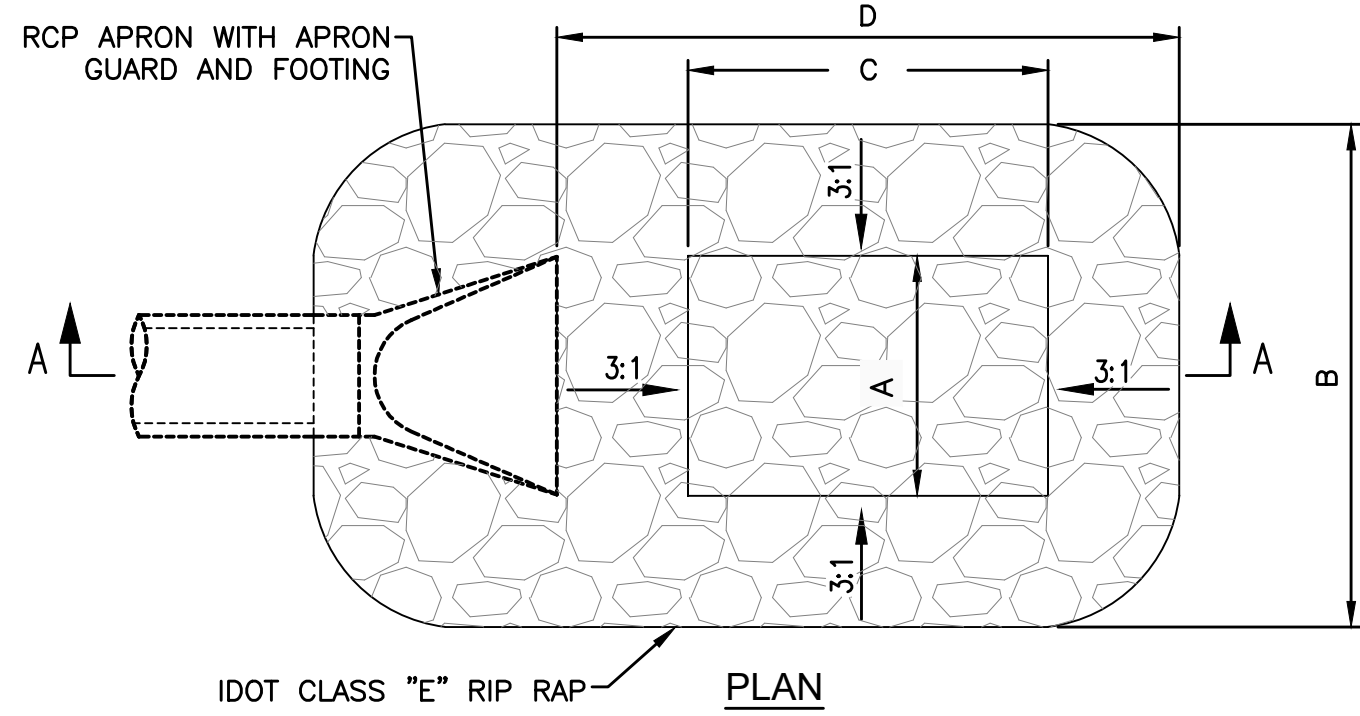


31' B/B P.C.C. ROADWAY WITH 70' R.O.W.
SERENITY DRIVE



CURB RAMP FOR CLASS B OR C SIDEWALKS
NOT TO SCALE

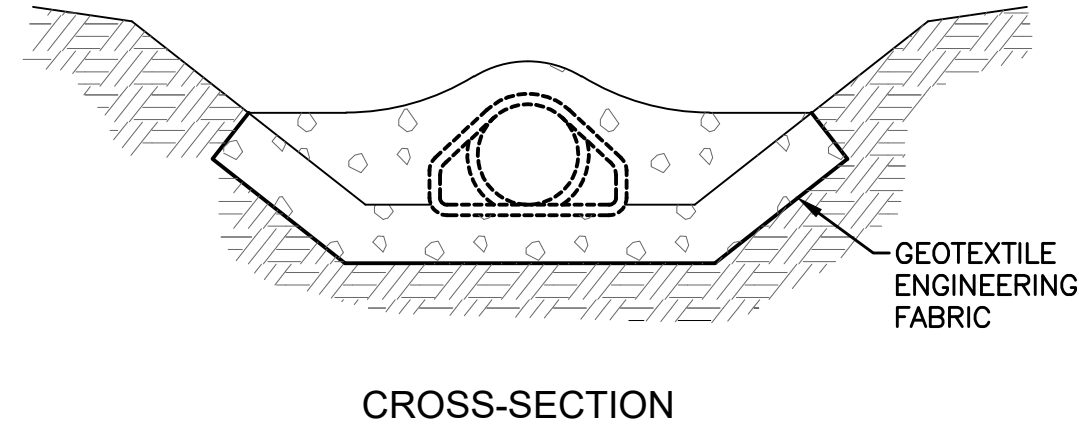
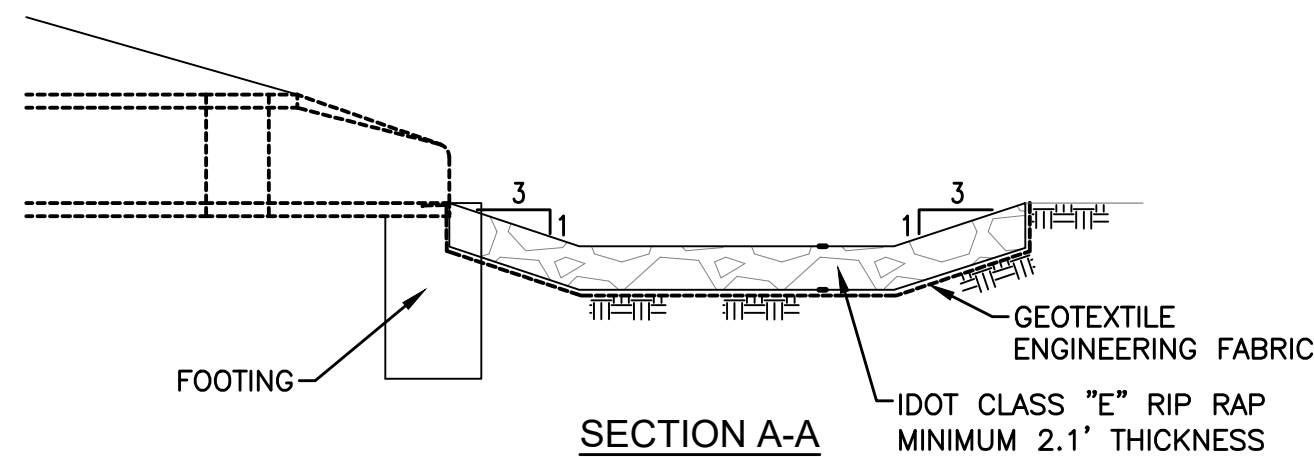
FILE: H:\2020\2009483\DWG\2009483-COV-BET-TAB-AS-BUILD.DWG
DATE PLOTTED: 10/25/2021 11:17 AM
PLOTTER: HP DESIGN PLOTTER
DRAWN BY: WATSON THOMPSON
CHECKED BY: ENG.



MATERIAL NOTES

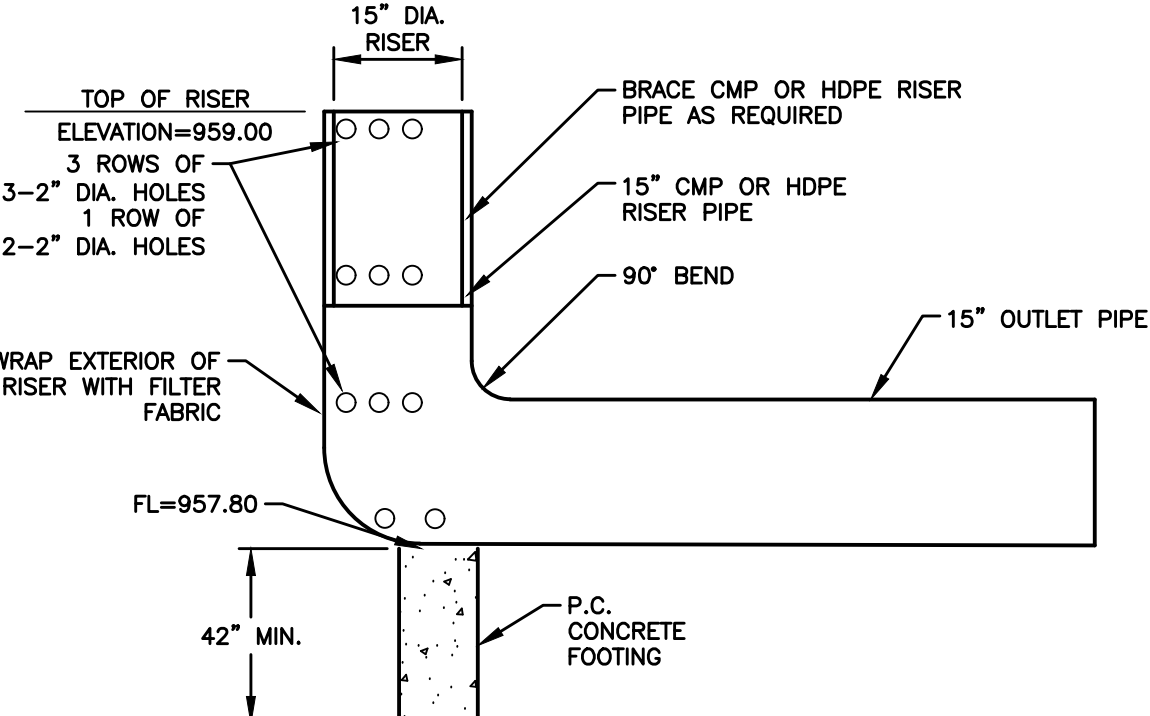
1. THE GEOTEXTILE FABRIC SHALL CONFORM TO IOWA DOT SECTION 4196 ENGINEERING FABRICS, PART C, EMBANKMENT EROSION CONTROL
2. ROCK RIPRAP SHALL CONFORM TO IOWA DOT SECTION 4130, CLASS "E" REVETMENT

DIM/ELEV	ST-3
A	14'
B	20'
C	14'
D	20'



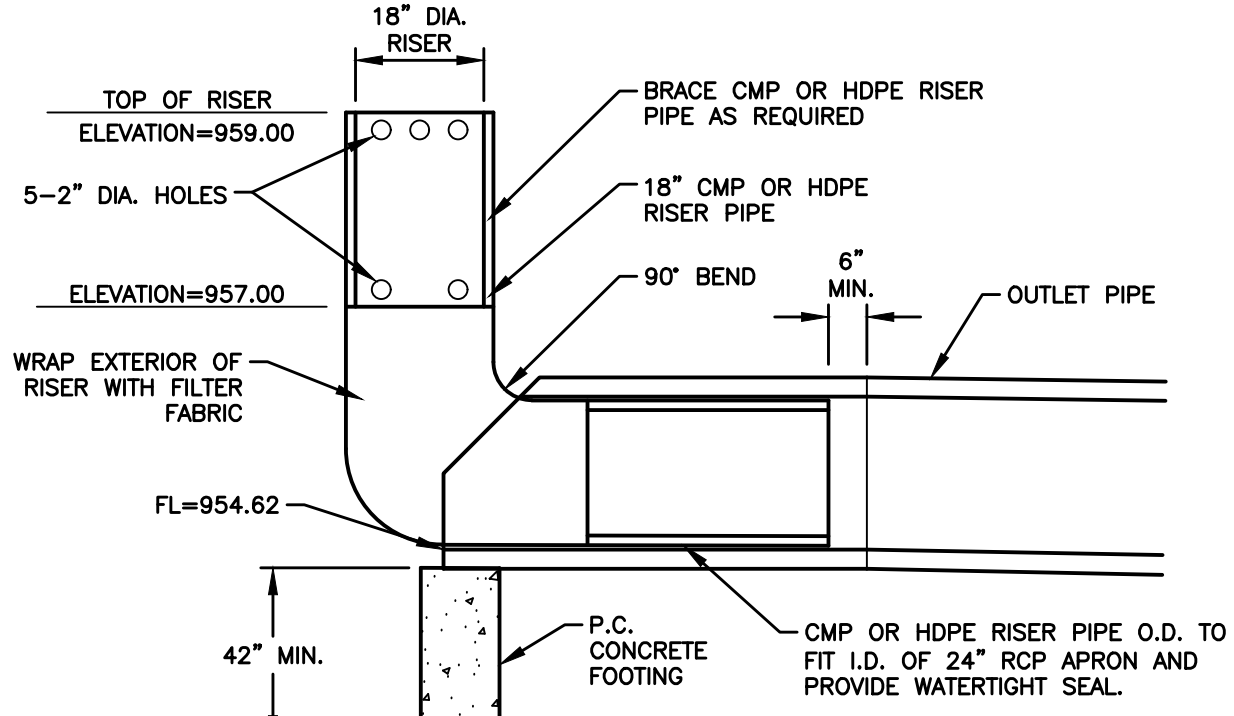
RIPRAP STILLING BASIN DETAIL

NOT TO SCALE



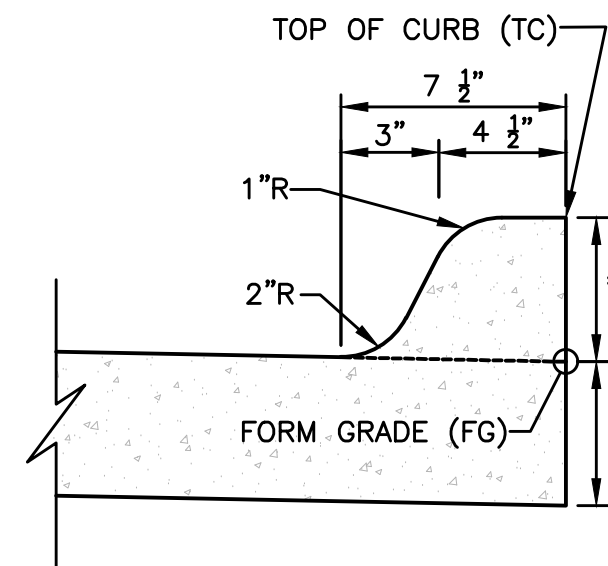
TEMPORARY STAND PIPE DETAIL: TSB #2

NOT TO SCALE



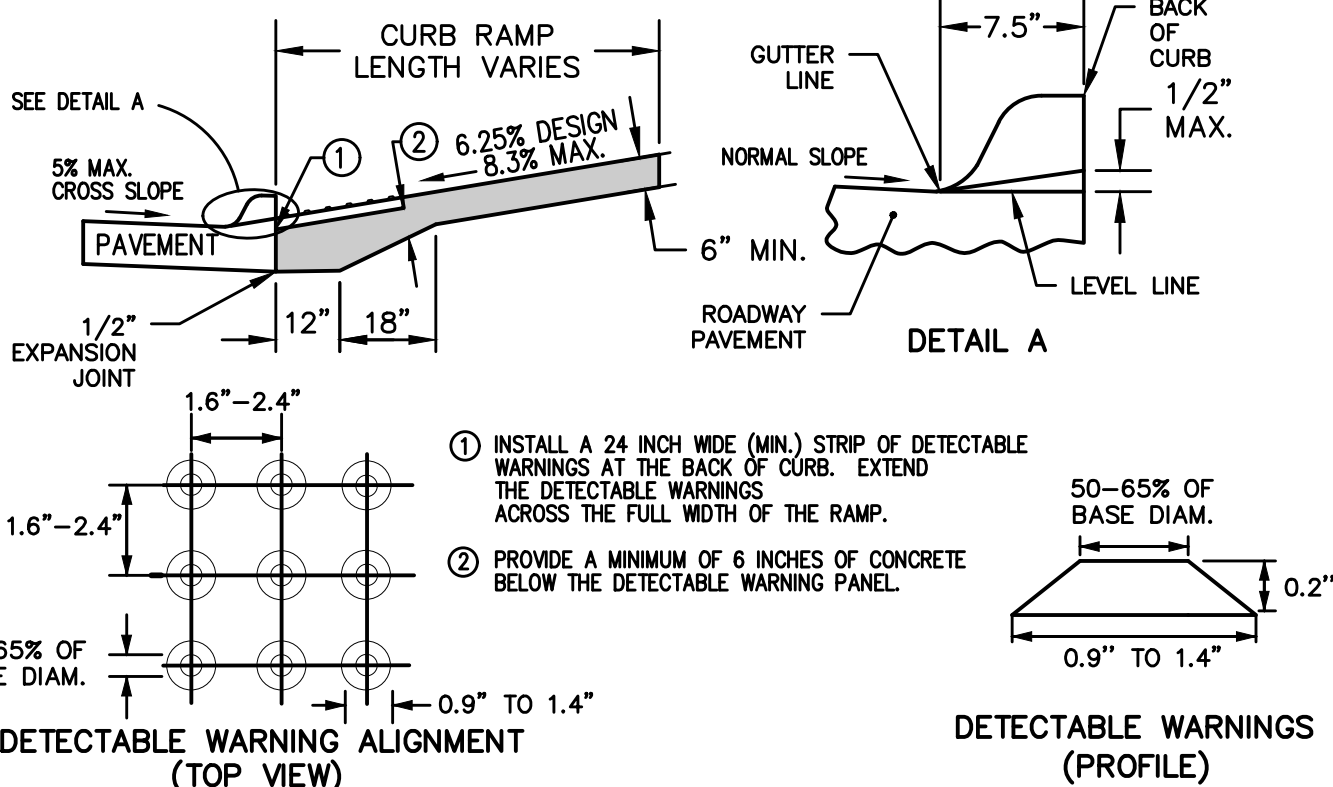
TEMPORARY STAND PIPE DETAIL: TSB #1 (ST-3)

NOT TO SCALE



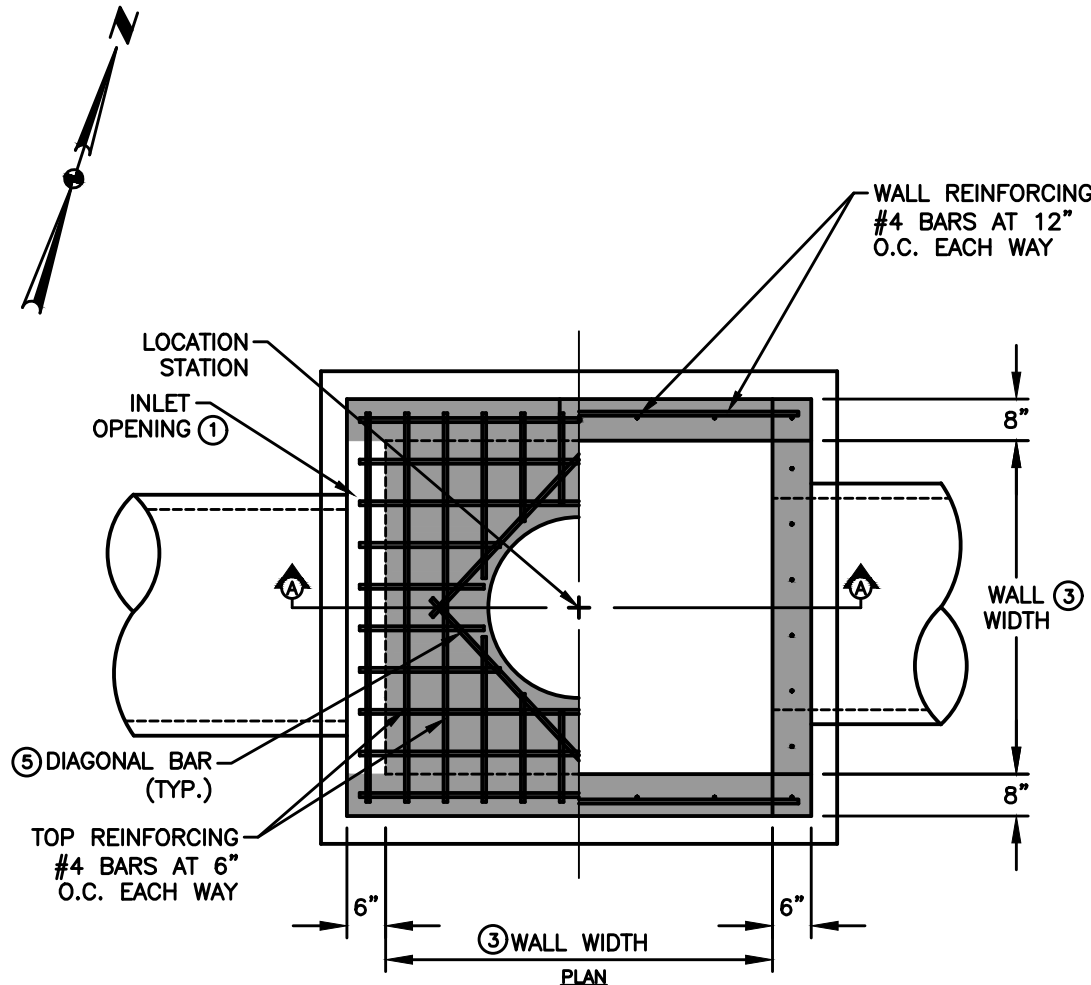
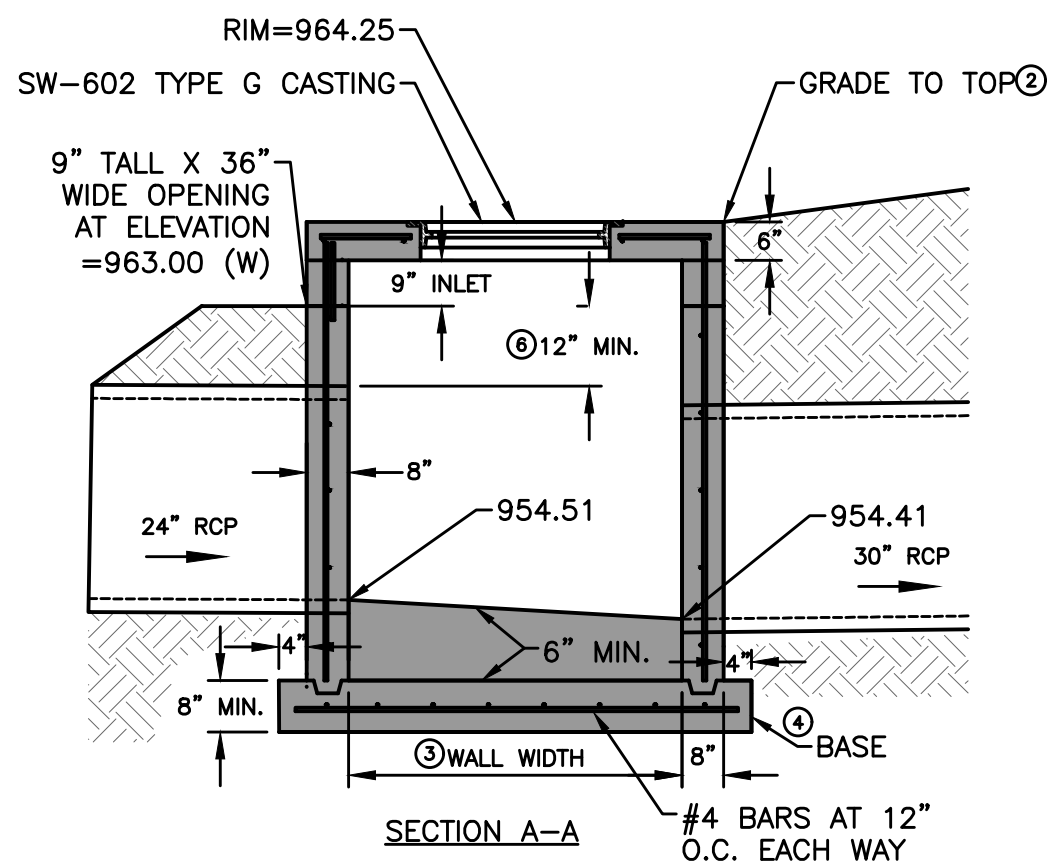
INTEGRAL 6" STANDARD SPOT ELEVATION REFERENCE DETAIL

NOT TO SCALE



DETECTABLE WARNING DETAIL

NOT TO SCALE



STRUCTURE MAY BE BUILT WITH OPENINGS ON ANY OR ALL SIDES. PROVIDE OPENINGS AND ORIENTATION AS SPECIFIED IN THE CONTRACT DOCUMENTS.

ADJACENT WALLS MAY HAVE DIFFERENT WIDTHS BASED UPON PIPE CONFIGURATION, BUT STRUCTURE MUST BE RECTANGULAR.

1. CONSTRUCT INLET OPENINGS WITH 15-INCH #4 EPOXY-COATED BARS AT 8 INCHES ON CENTER. EMBED BARS A MINIMUM OF 3 INCHES INTO WALLS AND TOP AT ALL OPENINGS. CONSTRUCT 1 INLET OPENING 9" TALL AND 36" WIDE.

2. GRADE TO INLET ELEVATION ON OPEN SIDES. GRADE TO TOP ELEVATION ON CLOSED SIDES.

3. WALL WIDTHS VARY WITH PIPE DIA. PROVIDE 6 INCHES OF WALL WIDTH (MINIMUM) EACH SIDE OF PIPE OPENING. MINIMUM WALL WIDTH IS 36 INCHES. MAXIMUM WALL WIDTH IS 72 INCHES.

4. 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.

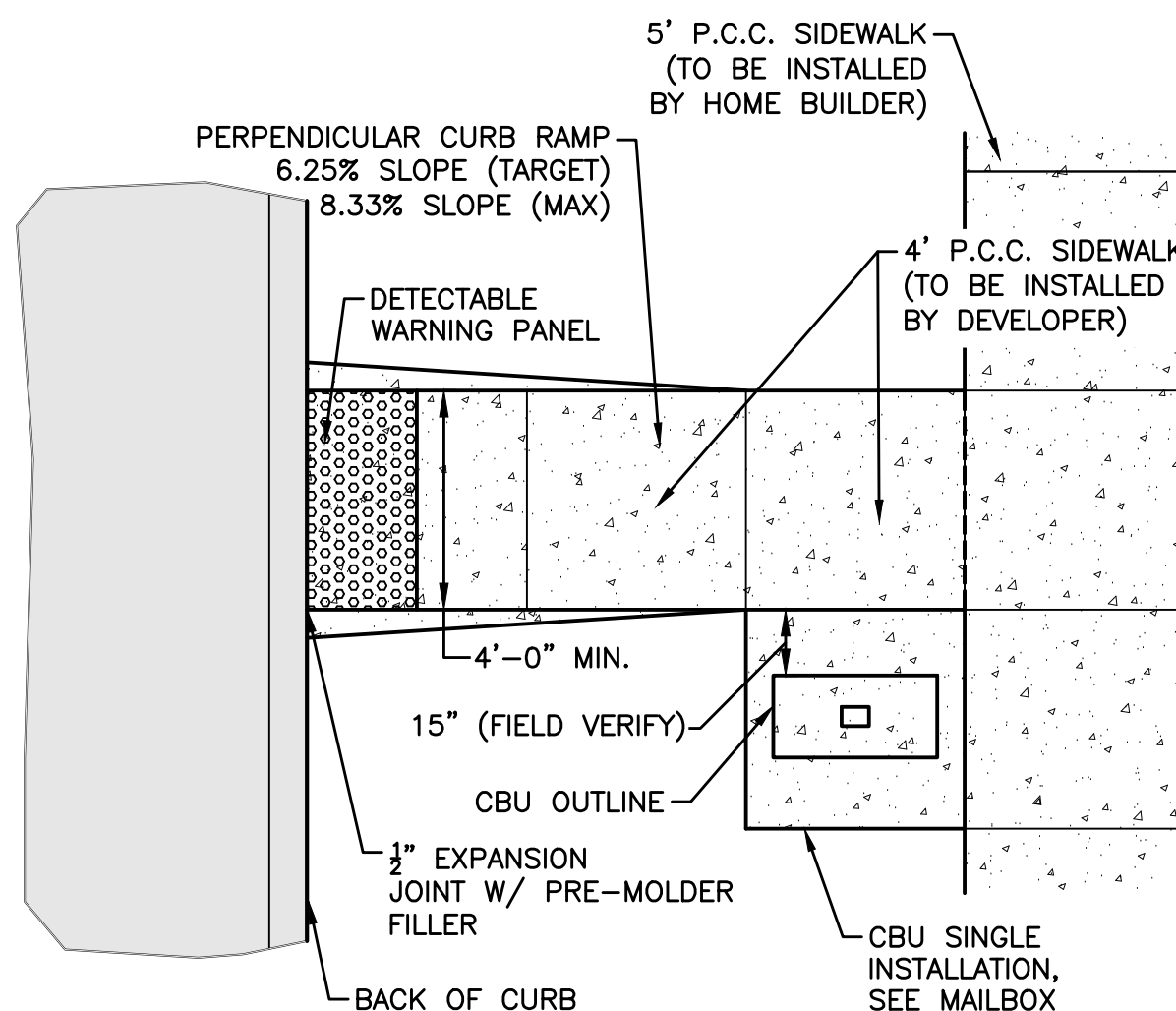
5. INSTALL FOUR #4 DIAGONAL BARS AT ALL PIPE OPENINGS.

6. 12" MINIMUM WALL HEIGHT ABOVE ALL PIPES.

7. CORNER PIER REQUIRED BETWEEN OPENINGS OF TWO ADJACENT WALLS. EXTEND WALL REINFORCING VERTICALLY THROUGH PIER. INSTALL ONE ADDITIONAL 15-INCH #4 BAR IN PIER.

5' X 5' SW-513 INTAKE (ST-2)

NOT TO SCALE

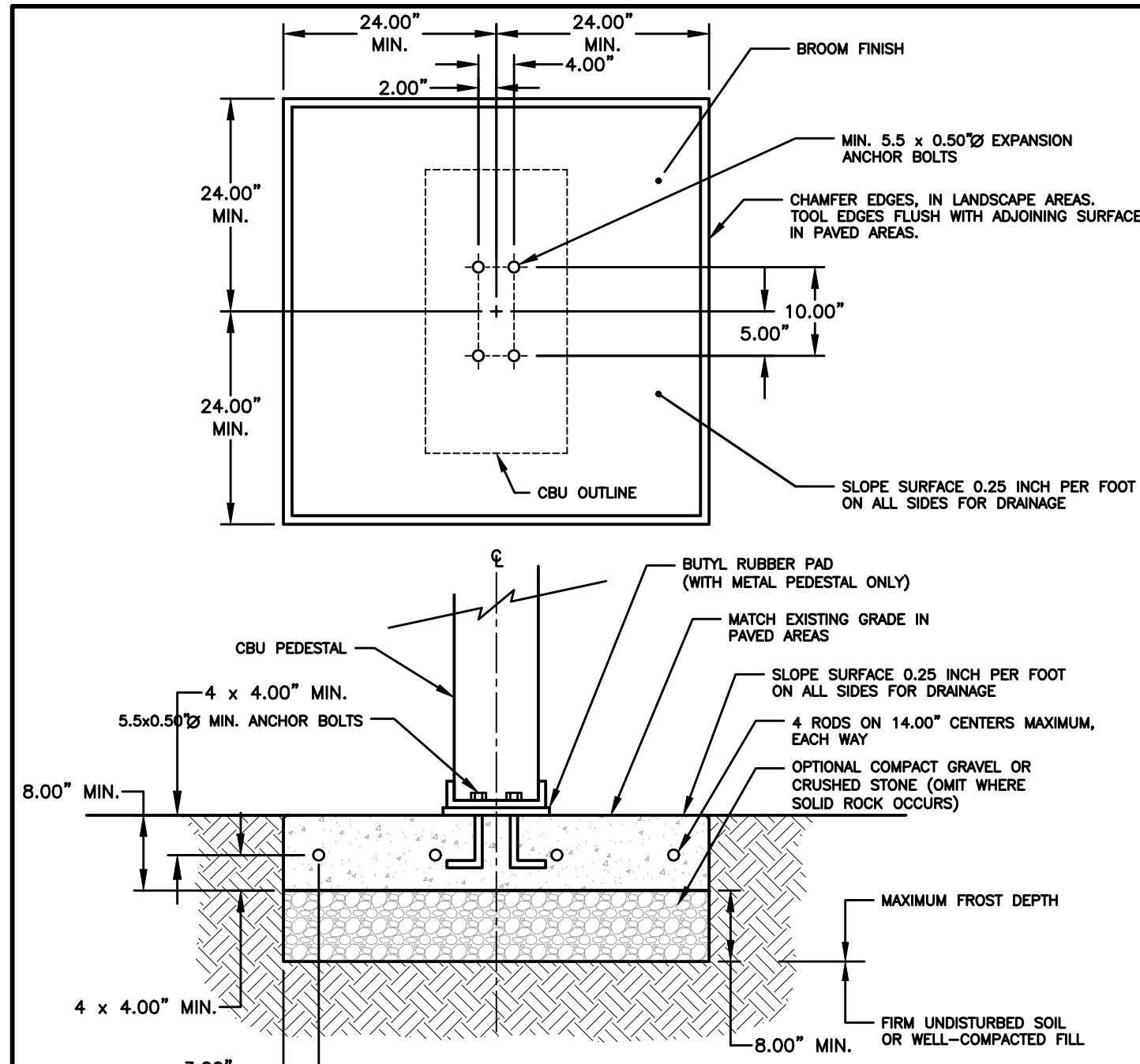


INSTALLATION NOTE:

1. MAILBOX PADS TO BE INSTALLED BY DEVELOPER.
2. CLUSTER MAILBOX TO BE LOCATED ON THE NO PARKING/STREET LIGHT SIDE OF STREET.
3. DO NOT LOCATE AT INTERSECTION.
4. LOCATE NEAR SHARED PROPERTY LINE PER APPROVED PLAN.
5. DETERMINE SIDEWALK SIDE OF MAILBOX PAD ELEVATION ASSUMING CONSTANT 4% SLOPE FROM BACK OF CURB TO SIDEWALK SIDE OF MAILBOX PAD. RESULTING SLOPE FROM BACK OF CURB TO STREET SIDE OF MAILBOX PAD WILL BE GREATER THAN 4%. FOR EXAMPLE, FOR A 29' WIDE PAVEMENT WITH A 60' WIDE R.O.W. AND A 2% MAILBOX PAD CROSS SLOPE, THE RESULTING SLOPE FROM THE BACK OF CURB TO THE STREET SIDE OF MAILBOX PAD IS 6.2%.

MAILBOX PAD DETAIL

NOT TO SCALE



- NOTES:
1. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI @ 28 DAYS, CONTAIN 4% MIN. - 6% MAX. AIR ENTRAINMENT AND BE PLACED WITH A 3.50\"/>
 2. REINFORCING STEEL RODS SHALL CONFORM TO ASTM A615, GRADE 60.
 3. EXPANSION BOLTS SHALL BE EQUIVALENT TO THE FOLLOWING PROVIDERS:
A. HILTI KWIK BOLT (WWW.USHLT.COM) 1/2\"/>
 - B. ITW RAMSET REDHEAD TRUBOLT (WWW.RAMSET-REDHEAD.COM) GALVANIZED, 1/2\"/>
 - C. RAWL STUD (WWW.RAWL.COM) GALVANIZED, 1/2\"/>

MAILBOX CLUSTER PAD DETAIL

NOT TO SCALE

[illegible]

GENERAL NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF WAUKEE STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS AND TO THE 2021 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 CONTRACTOR'S 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.

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 2021 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. AREA SHOWN FOR REFERENCE ONLY.
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 RESPAED 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.
5-23	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 TELEVIEW SANITARY AND STORM SEWER PRIOR TO PAVING AND PROVIDE TELEVIEWING REPORT TO CITY IN HARD COPY AND DISC FORMAT. TELEVIEWING 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.
7, 15, 26	REFER TO DETAIL ON SHEET 2 AND PLAN AND PROFILE SHEETS FOR LOCATION AND DEPTH. STORM SEWER SERVICES TYING INTO EXISTING RCP PIPE ARE TO BE CORE DRILLED.
16-23	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.
24-26	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.
29	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.
29-30	REFER TO WATERMAIN PLAN AND PROFILE SHEETS FOR LOCATIONS OF HYDRANTS. ANY RELOCATED FIRE HYDRANTS ARE TO INCLUDE STORZ FITTINGS.
29-30	INCLUDES 8"x6" REDUCER, STORZ FITTINGS, POLYETHYLENE WRAP, THRUST BLOCK, TRACER WIRE SYSTEM AND FIRE HYDRANT.
31	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.

- 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. 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.
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. THIS IS TO 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.

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
32-33	REFER TO FIG. 6010.401 - CIRCULAR STORM SEWER MANHOLE (SW-401) FOR CONSTRUCTION DETAILS. MANHOLE INSIDE DIAMETERS GREATER THAN 48" SHALL BE CONSIDERED INCIDENTAL.
34-37	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".
34	REFER TO FIG. 6010.501 - SINGLE GRATE INTAKE (SW-501) FOR CONSTRUCTION DETAILS.
35	REFER TO FIG. 6010.503 - SINGLE GRATE INTAKE WITH MANHOLE (SW-503) FOR CONSTRUCTION DETAILS.
36	REFER TO FIG. 6010.505 - DOUBLE GRATE INTAKE (SW-505) FOR CONSTRUCTION DETAILS.
37	REFER TO FIG. 6010.506 - DOUBLE GRATE INTAKE WITH MANHOLE (SW-506) FOR CONSTRUCTION DETAILS.
38	REFER TO SHEET 3 FOR CONSTRUCTION DETAILS. STRUCTURE ST-2 SHALL HAVE 8" WALLS.
39-42	REFER TO FIG. 7010.101 - JOINTS (PV-101) FOR JOINT DETAILS. MAXIMUM C AND CD JOINT SPACING IS 15 FEET.
43-44	REFER TO SHEET 6 FOR LOCATION OF SIDEWALKS.
45	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.
46	REFER TO SHEET 3 FOR CONSTRUCTION DETAILS.
47	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 =1.78 AC -TYPE 4 URBAN TEMPORARY EROSION CONTROL MIXTURE = 11.01 AC
48	REFER TO PLAN AND PROFILE SHEETS FOR LOCATIONS. REFER TO IDOT STANDARD ROAD PLAN SI-182 FOR CONSTRUCTION DETAILS. EACH LOCATION CONSISTS OF FIVE SIGNS WITH POSTS PER SI-182.
49	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.
50	REFER TO SHEET 7 OF THE CONSTRUCTION DRAWINGS FOR EROSION AND SEDIMENT CONTROLS. REFER TO SEPARATE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FOR SPECIFIC DETAILS.
	<u>EROSION CONTROL QUANTITIES</u> - 1 CONCRETE WASH PIT - 3,920 SF OF TYPE 1 TURF REINFORCEMENT MATTING - 2,990 LF OF SILT FENCE - 1,327 LF OF DITCH CHECK - 12.79 ACRES OF SEEDING, FERTILIZING AND MULCHING. - 14 INLET PROTECTION DEVICES - 1-15" HDPE OR PVC TEMPORARY STANDPIPE - 1-18" HDPE OR PVC TEMPORARY STANDPIPE
51	INSTALL ENGINEERING FABRIC UNDER ALL RIP RAP. ENGINEERING FABRICED SHALL BE CONSIDERED INCIDENTAL. REFER TO SHEET 3 FOR CONSTRUCTION DETAILS.
52	REFER TO FIG. 4040.232 - SUBDRAIN CLEANOUTS FOR CONSTRUCTION DETAILS.
53	REFER TO SHEET 3 FOR CONSTRUCTION DETAILS. MAILBOX PADS ARE LOCATED BETWEEN LOTS 11/12, 20/21, AND LOT 29.
54	REFER TO SHEET 27 FOR LOCATION AND DETAILS. PAVEMENT MARKINGS SHALL BE GROOVED AND MARKED WITH DURABLE PAINT THAT MEETS THE IOWA DOT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, SECTION 2527 REQUIREMENTS.

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. 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.
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 FINDING 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-BUILT 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 4-INCH 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. ALL EXISTING AND PROPOSED MANHOLES SHALL HAVE A MINIMUM OF 1 - 4" ADJUSTING RING TO ALLOW FOR FUTURE ADJUSTMENT SHOULD THE STRUCTURE END UP IN A DRIVEWAY.
38. THE RESULTS OF THE GEOTECHNICAL EXPLORATION ARE TO BE PROVIDED TO THE CITY OF WAUKEE ENGINEERING DEPARTMENT AND THE PLAN IS SUBJECT TO ANY CHANGES REQUIRED BY THE REPORT.

HAMILTON RIDGE PLAT 1

QUANTITIES, GENERAL NOTES AND BID ITEM REFERENCE NOTES

WAUKEE, IOWA

3405 S.E. CROSSROADS DRIVE, SUITE G

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

ENGINEER: EO

EI: JWM/CWO

REVISONS	DATE
AS-BUILT SUBMITTAL	10/25/21
FINAL SUBMITTAL	02/01/21
THIRD SUBMITTAL	07/19/21
SECOND SUBMITTAL	12/22/20
FIRST SUBMITTAL	11/10/20



COMMENT:
TECH:
ENG:

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 LE DATE: 10/25/21 DATE PLOTTED: 10/25/2021 11:17 AM
 PLOTTED BY: MATTHEW THOMPSON

CITY OF WAUKEE
OUTSIDE DROP CONNECTION
NOT TO SCALE

25' BUFFER REQUIREMENTS

1 OVERSTORY, 2 EVERGREEN AND 2 ORNAMENTAL TREES PER 50 LF

REQUIRED (600')

OVERSTORY TREES	12
EVERGREEN TREES	24
ORNAMENTAL TREES	24

PROVIDED

OVERSTORY TREES	12
EVERGREEN TREES	24
ORNAMENTAL TREES	24

PLANT SCHEDULE

CODE	QTY			SIZE	COND
CP	24	CHANTICLEER PEAR	PYRUS CALLERYANA 'GLENS'S FORM'	1.5" CAL	B&B
RO	12	RED OAK	QUERCUS RUBRA	2" CAL	B&B
DF	24	DOUGLAS FIR	PSEUDOTSGA MENZIESII	6" HT.	B&B

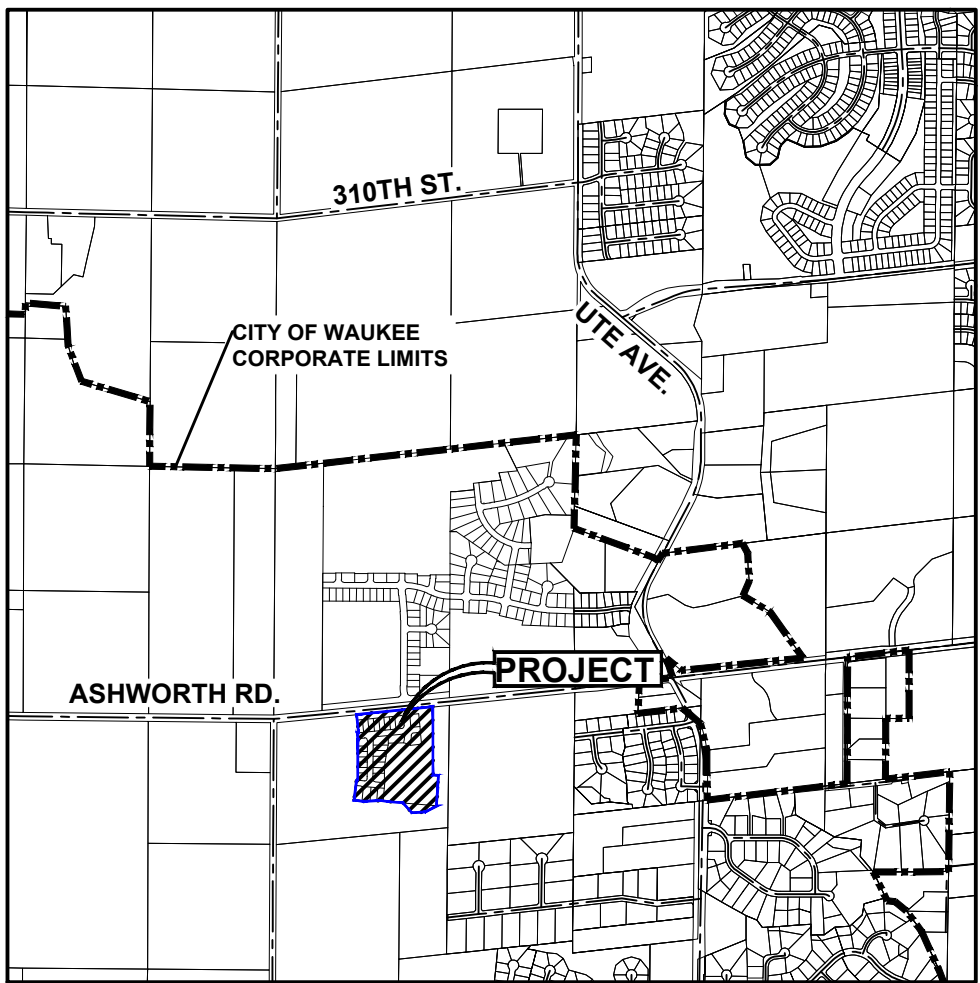


HAMILTON RIDGE PLAT 1

EROSION AND SEDIMENT CONTROL PLAN

VICINITY MAP

NOT TO SCALE



WAUKEE, IOWA

STABILIZATION QUANTITIES

ITEM NO.	ITEM	UNIT	TOTAL
1	SILT FENCE	LF	2,990
2	DITCH CHECKS	LF	1,327
3	TYPE 1 TURF REINFORCEMENT MATTING	SF	3,920
4	SEEDING, FERTILIZING, AND MULCHING	AC	12.79
5	INLET PROTECTION DEVICES	EA	14
6	CONCRETE WASHOUT PIT	EA	1
7	15" HDPE OR PVC TEMPORARY STANDPIPE	EA	1
8	18" HDPE OR PVC TEMPORARY STANDPIPE	EA	1

DISCHARGE POINT SUMMARY

DISCHARGE POINT #1 DIRECTLY INTO AN UNKNOWN TRIBUTARY OF SUGAR CREEK
TOTAL AREA DISTURBED TO DISCHARGE POINT
STORAGE VOLUME REQUIRED (# OF ACRES*3600 CU FT)

VOLUME PROVIDED IN SILT FENCE (621 LF @ 10.0 CU FT/LF OF FENCE)
VOLUME PROVIDED IN DITCH CHECK (214 LF @ 15.0 CU FT/LF)
VOLUME PROVIDED IN TSB #1

TOTAL VOLUME PROVIDED

2.50 ACRES
9,000 CU FT

6,210 CU FT
3,210 CU FT
11,365 CU FT

20,785 CU FT

DISCHARGE POINT #2 DIRECTLY INTO AN UNKNOWN TRIBUTARY OF SUGAR CREEK
TOTAL AREA DISTURBED TO DISCHARGE POINT
STORAGE VOLUME REQUIRED (# OF ACRES*3600 CU FT)

VOLUME PROVIDED IN SILT FENCE (2,620 LF @ 10.0 CU FT/LF OF FENCE)
VOLUME PROVIDED IN DITCH CHECK (1,079 LF @ 15.0 CU FT/LF)
VOLUME PROVIDED IN TEMPORARY SEDIMENT BASIN

TOTAL VOLUME PROVIDED

11.77 ACRES
42,372 CU FT

26,200 CU FT
16,185 CU FT
29,418 CU FT

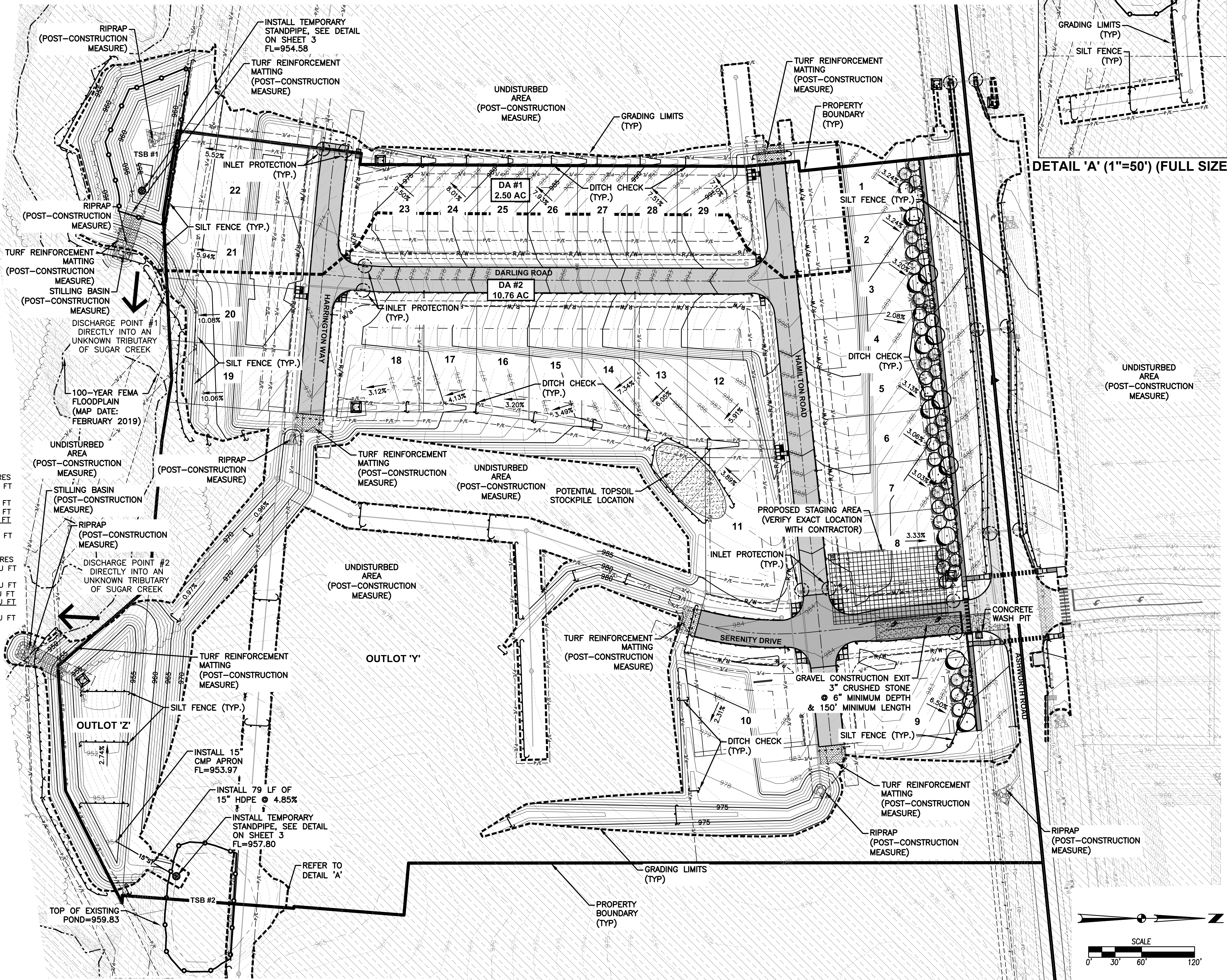
71,803 CU FT

SWPPP LEGEND

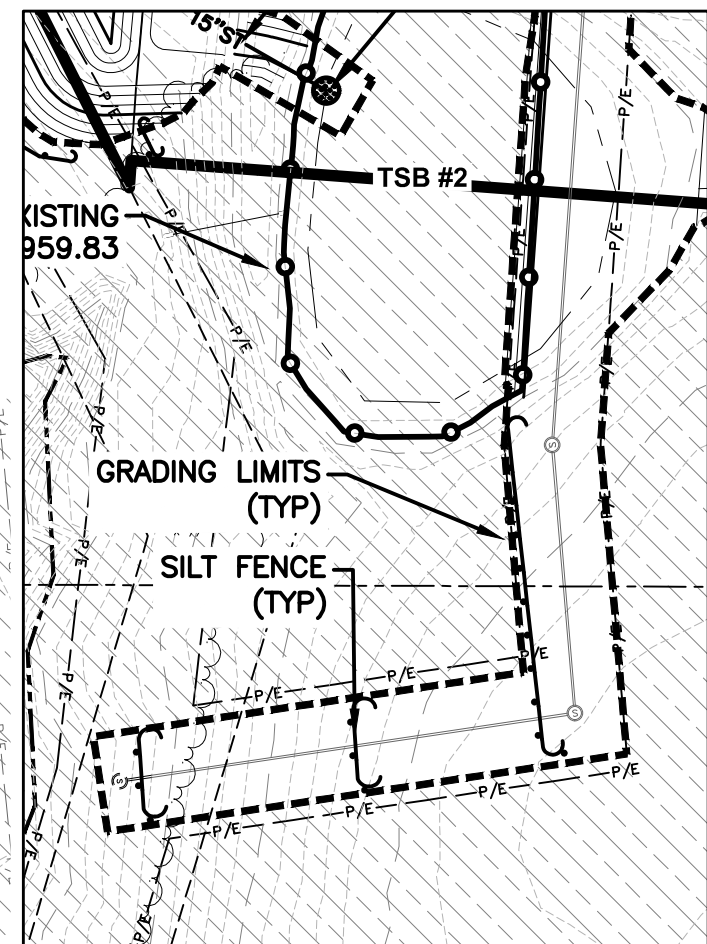
DRAINAGE ARROW	X.XX %	UNDISTURBED AREA
GRADING LIMITS	---	RIP-RAP
FILTER SOCK		GRAVEL ENTRANCE
SILT FENCE	---	STAGING AREA
DITCH CHECK	---	TEMPORARY SEDIMENT BASIN (TSB #)
INLET PROTECTION	○	CONCRETE WASHOUT PIT
PORTABLE RESTROOM	R	
TEMPORARY STANDPIPE	●	

NOTES:

- IF DEWATERING IS NEEDED FOR ANY REASON, DISCHARGE OF WATER OFFSITE IS TO CONFORM WITH THE GENERAL PERMIT #2 REQUIREMENT.
- DISTURBED AREAS SHALL BE TEMPORARILY SEED OR MULCHED IMMEDIATELY WHENEVER CLEARING, GRADING, EXCAVATING, OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS.
- STORM SEWERS AND DRAINAGE WAYS SHALL BE PROTECTED FROM CONCRETE SLURRY PRODUCED BY SAWCUTTING AND CONCRETE GRINDING.
- SHOULD A TEMPORARY SEED MIX BE REQUIRED TO CONFORM WITH THE GENERAL PERMIT #2 REQUIREMENTS IT SHALL BE A SUDAS TYPE 4 TEMPORARY SEED MIX.



DETAIL 'A' (1"=50') (FULL SIZE)



GA

DATE

10/25/21

AS-BUILT SUBMITTAL

02/01/23

FINAL SUBMITTAL

01/17/22

THIRD SUBMITTAL

12/22/20

FIRST SUBMITTAL

11/10/20

REVISIONS

3405 S.E. CROSSROADS DRIVE, SUITE G
GRIMES, IOWA 50111
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ENGINEER: EO
EI: JWM/CWO

HAMILTON RIDGE PLAT 1

EROSION AND SEDIMENT CONTROL PLAN

7

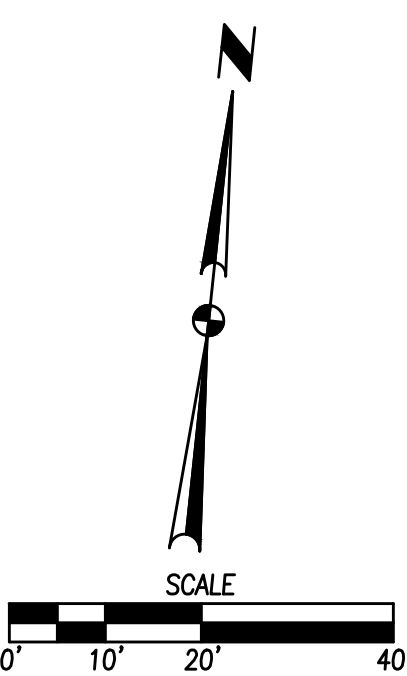
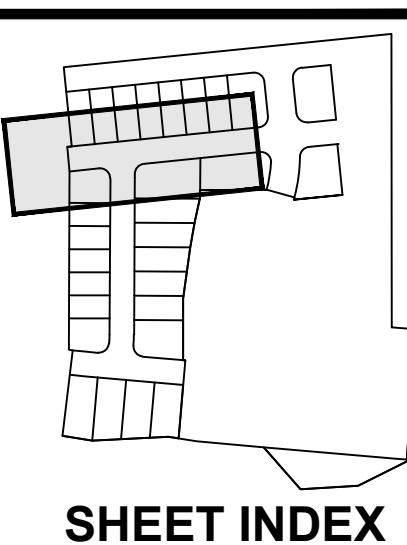
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CIVIL DESIGN ADVANTAGE

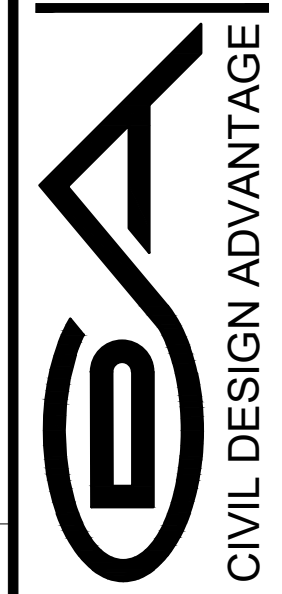
WAUKEE, IOWA



REVISIONS	DATE
AS-BUILT SUBMITTAL	10/25/21
FINAL SUBMITTAL	02/01/21
THIRD SUBMITTAL	01/19/21
SECOND SUBMITTAL	12/22/20
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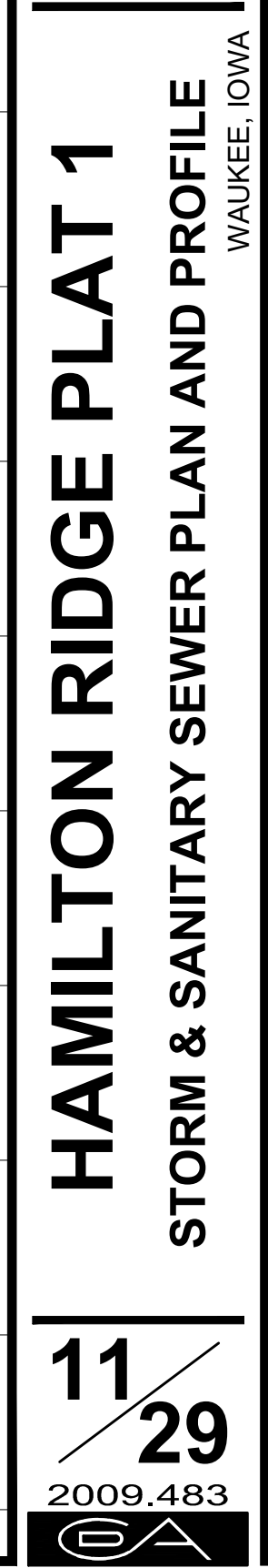
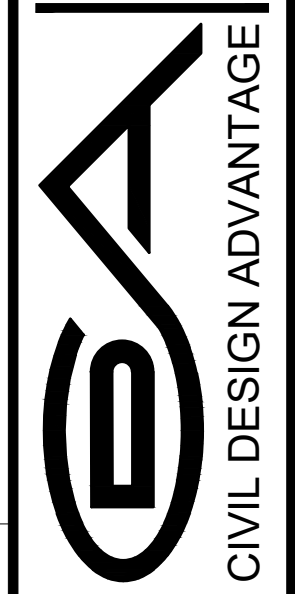
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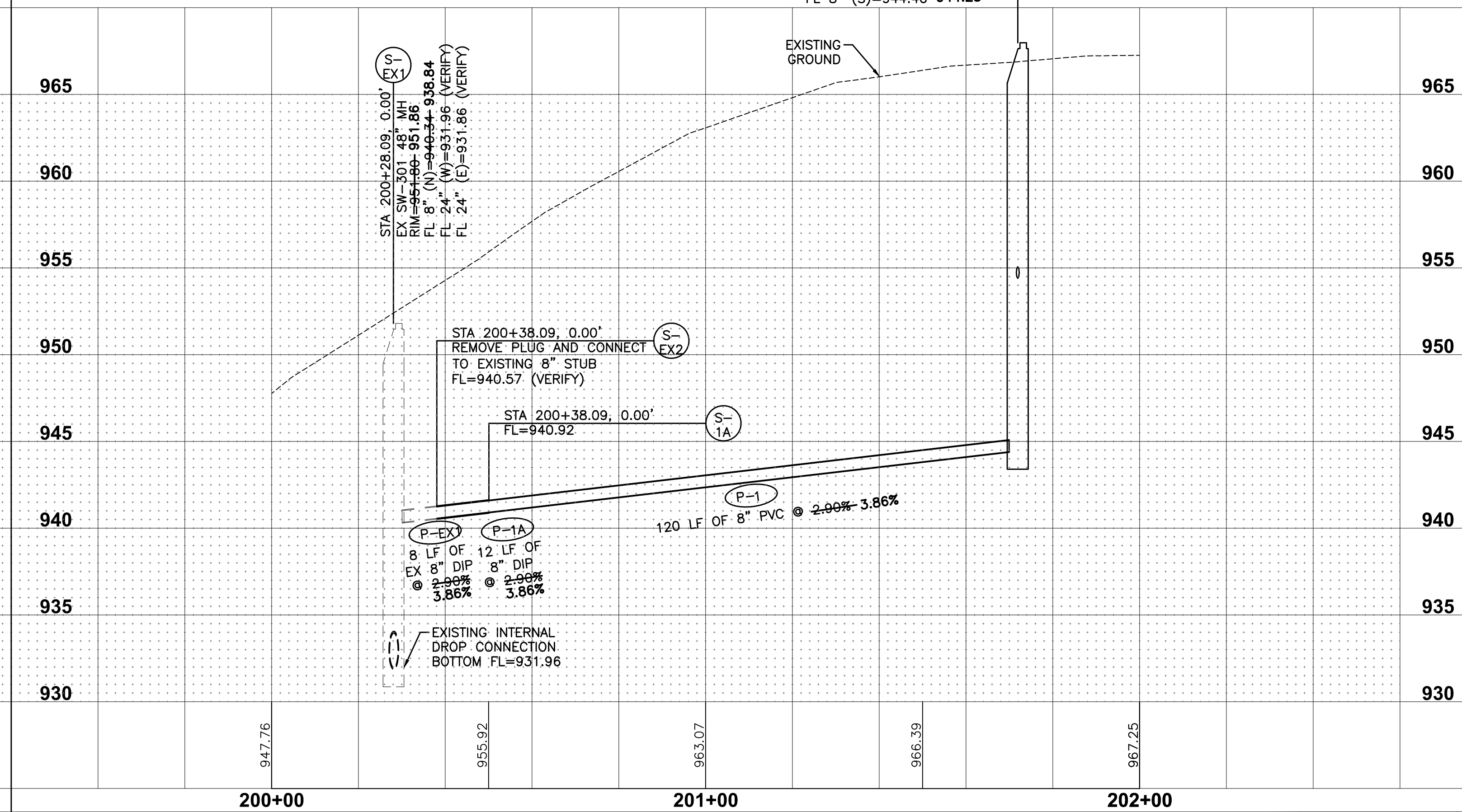
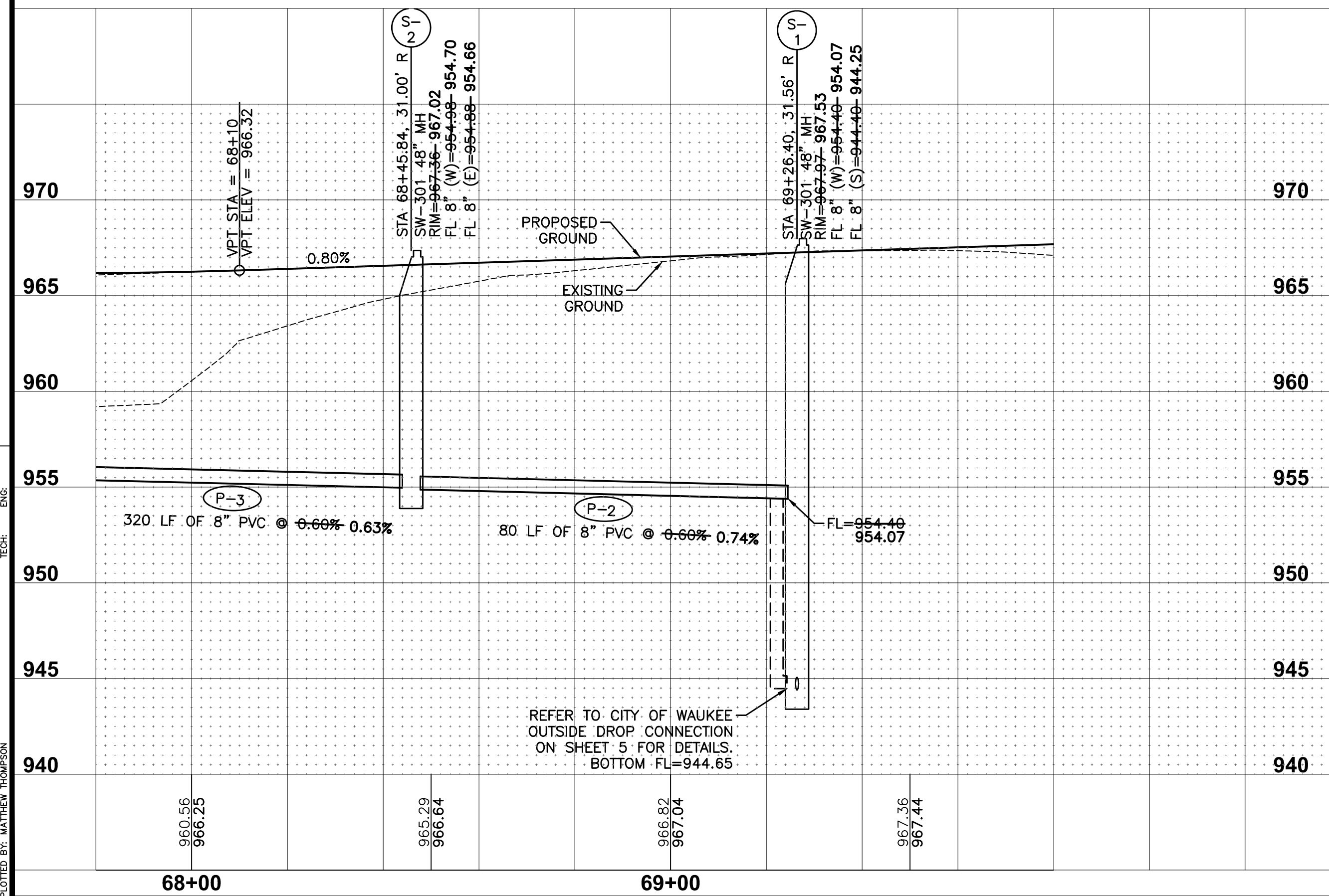
PROFILE

WAUKEE, IOWA

HAMILTON RIDGE PLAT 1

FILE: H:\2020\2009483\DWG\2009483-PNP-STORM AND SANITARY-ASSULT.DWG
FILE DATE: 10/25/21 DATE PLOTTED: 10/25/2021 11:23 AM COMMENT:
PLOTTED BY: MATTHEW THOMPSON TECH: ENG:







HAMILTON RIDGE PLAT 1

STORM & SANITARY SEWER PLAN AND PROFILE

WAUKEE, IOWA



12/29

2009.483

3405 S.E. CROSSROADS DRIVE, SUITE G
GRIMES, IOWA 50111
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ENGINEER: EO

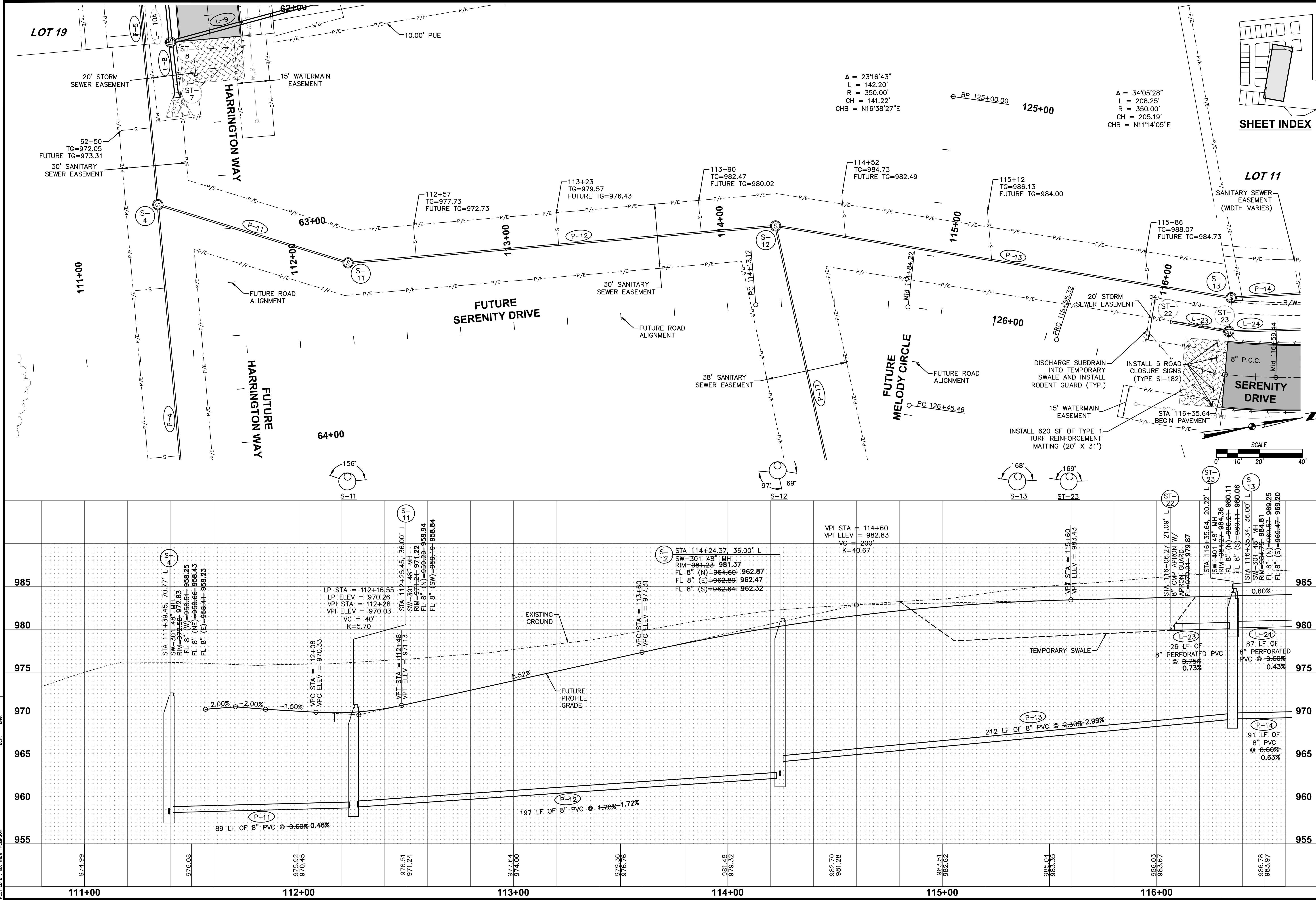
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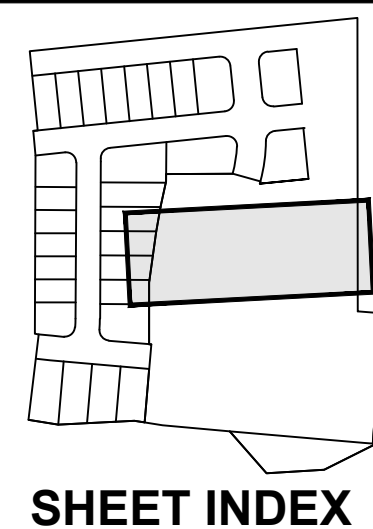
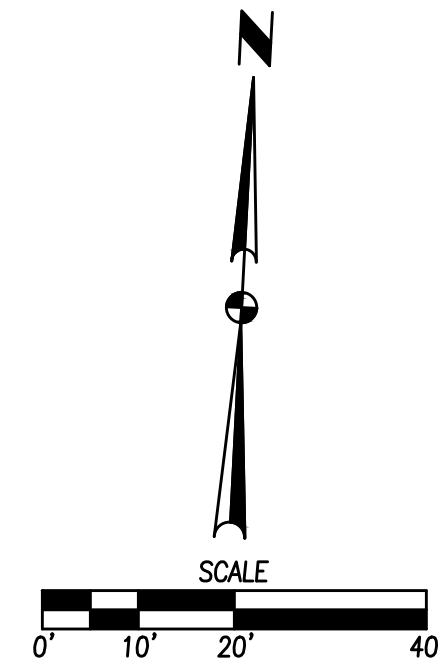
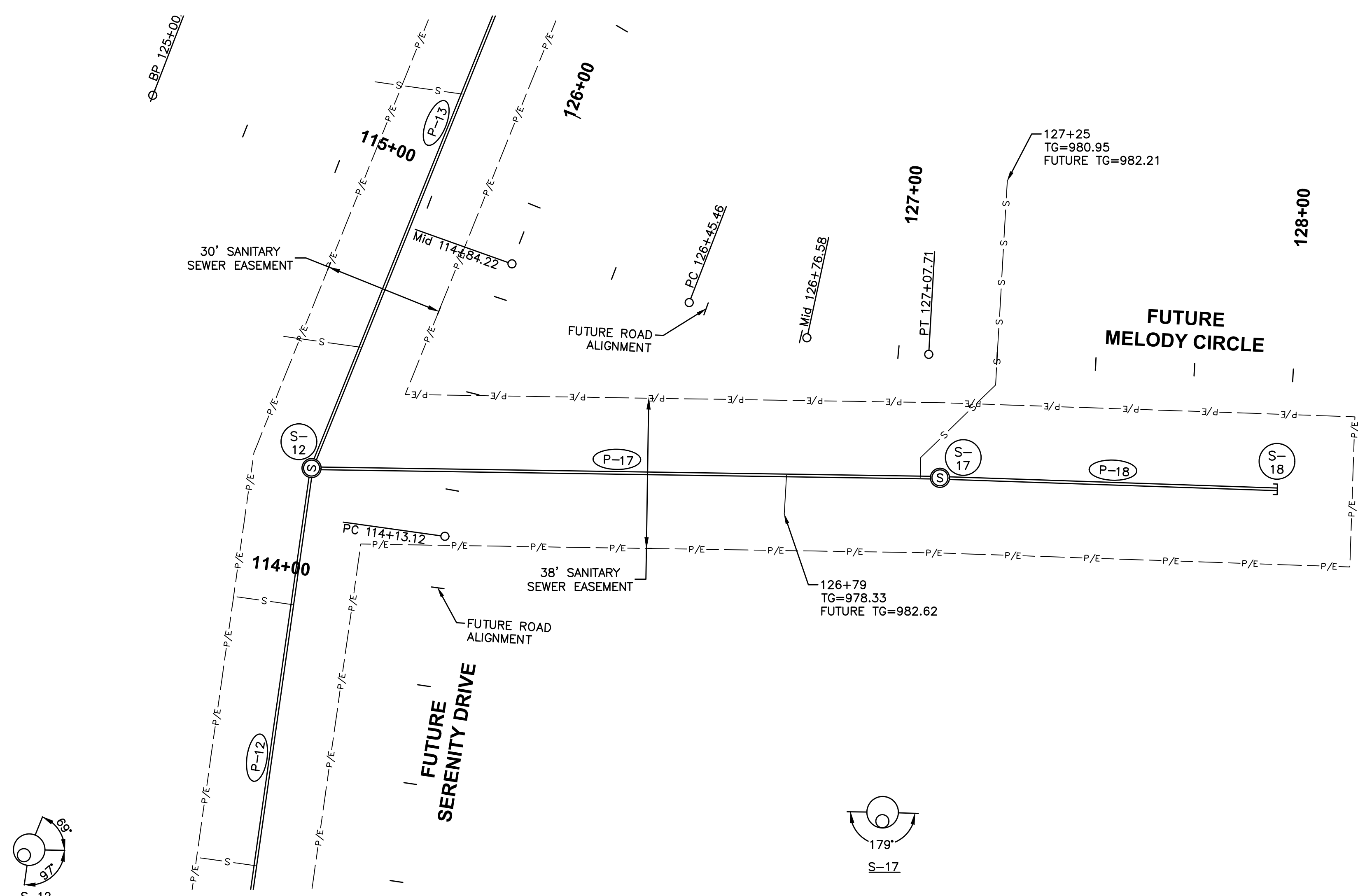
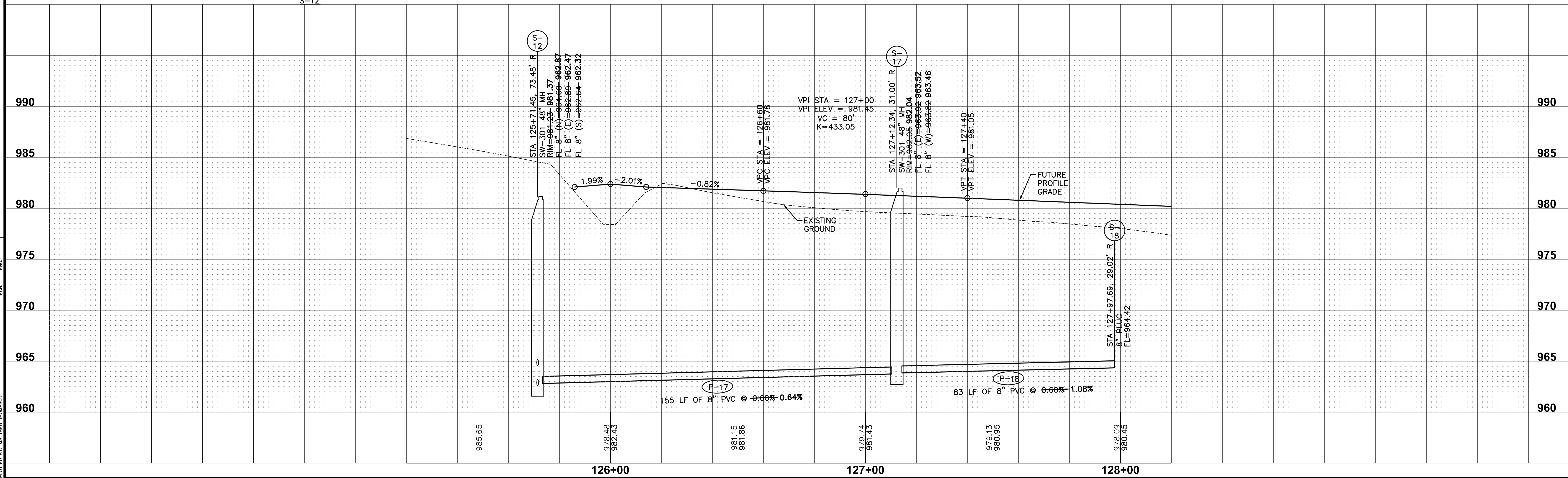
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REVISIONS	DATE
AS-BUILT SUBMITTAL	10/25/21
FINAL SUBMITTAL	02/01/21
THIRD SUBMITTAL	01/19/21
SECOND SUBMITTAL	12/22/20
FIRST SUBMITTAL	11/10/20

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PLOTTED BY: MATTHEW THOMPSON TECH: ENG:



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FINAL SUBMITTAL	02/01/21
THIRD SUBMITTAL	01/19/21
SECOND SUBMITTAL	12/22/20
FIRST SUBMITTAL	11/10/20

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

ENGINEER: EO	EI: JWM/CWO
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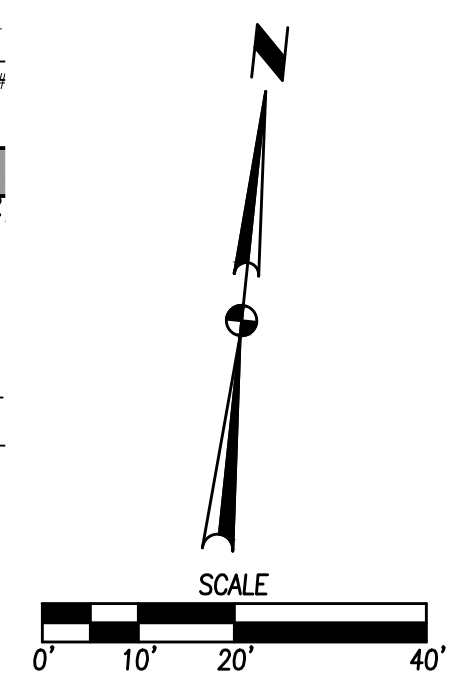
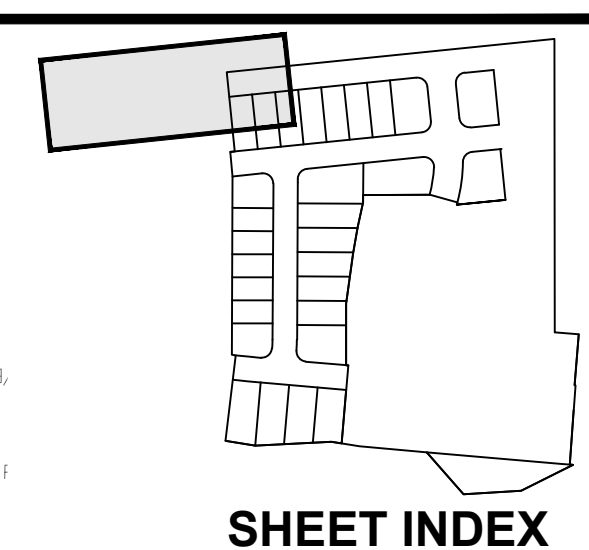
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HAMILTON RIDGE PLAT 1

STORM & SANITARY SEWER PLAN AND PROFILE

WAUKEE, IOWA

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REVISIONS	DATE
AS-BUILT SUBMITTAL	10/25/21
FINAL SUBMITTAL	02/01/21
THIRD SUBMITTAL	01/19/21
SECOND SUBMITTAL	12/22/20
FIRST SUBMITTAL	11/10/20

3405 S.E. CROSSROADS DRIVE, SUITE G
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ENGINEER: EO EI: JWM/CWO



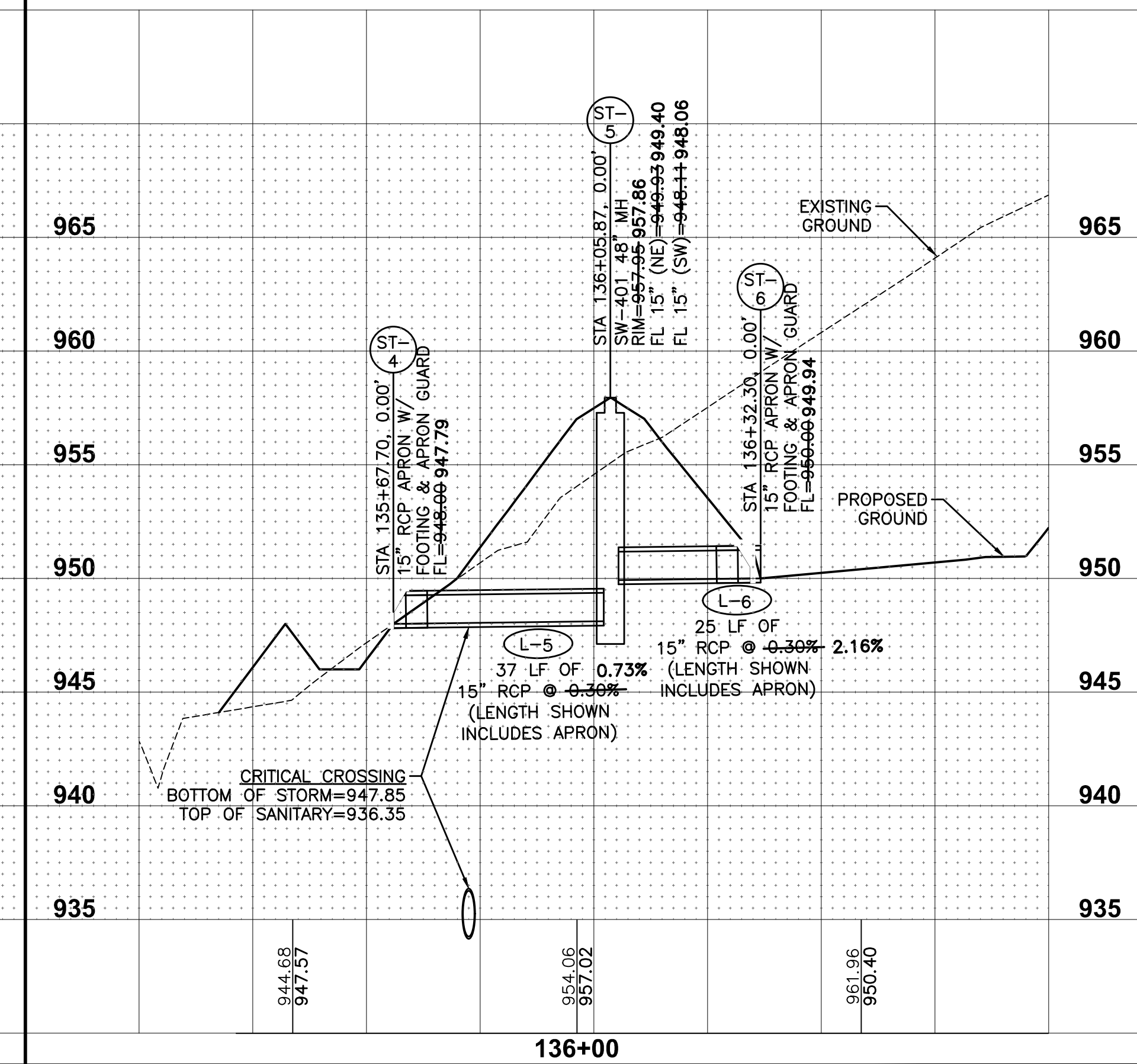
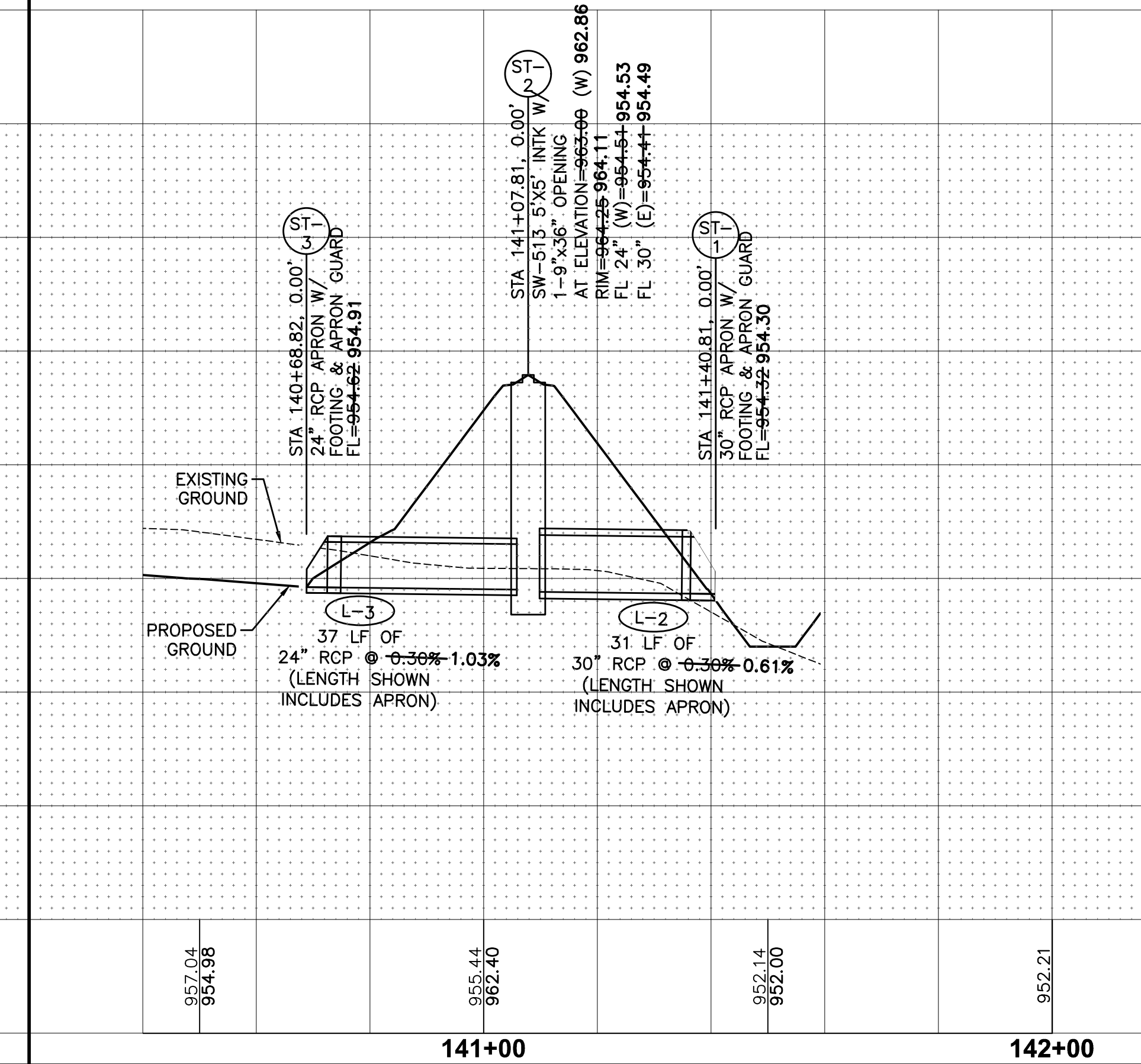
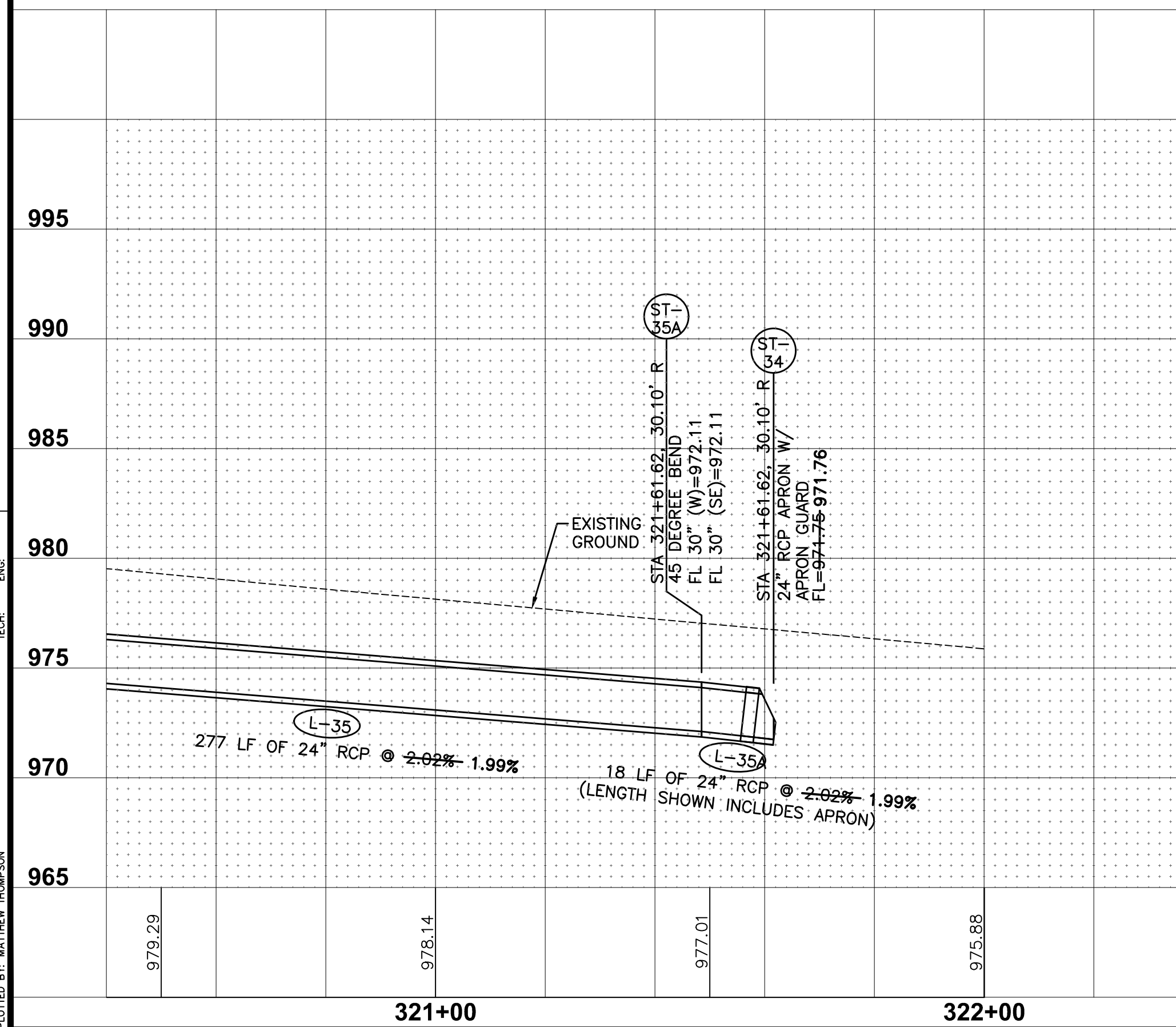
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HAMILTON RIDGE PLAT 1

STORM & SANITARY SEWER PLAN AND PROFILE

WAUKEE, IOWA

17/29
2009.483
GA



HAMILTON RIDGE PLAT 1

STORM & SANITARY SEWER PLAN AND PROFILE

WAUKEE, IOWA

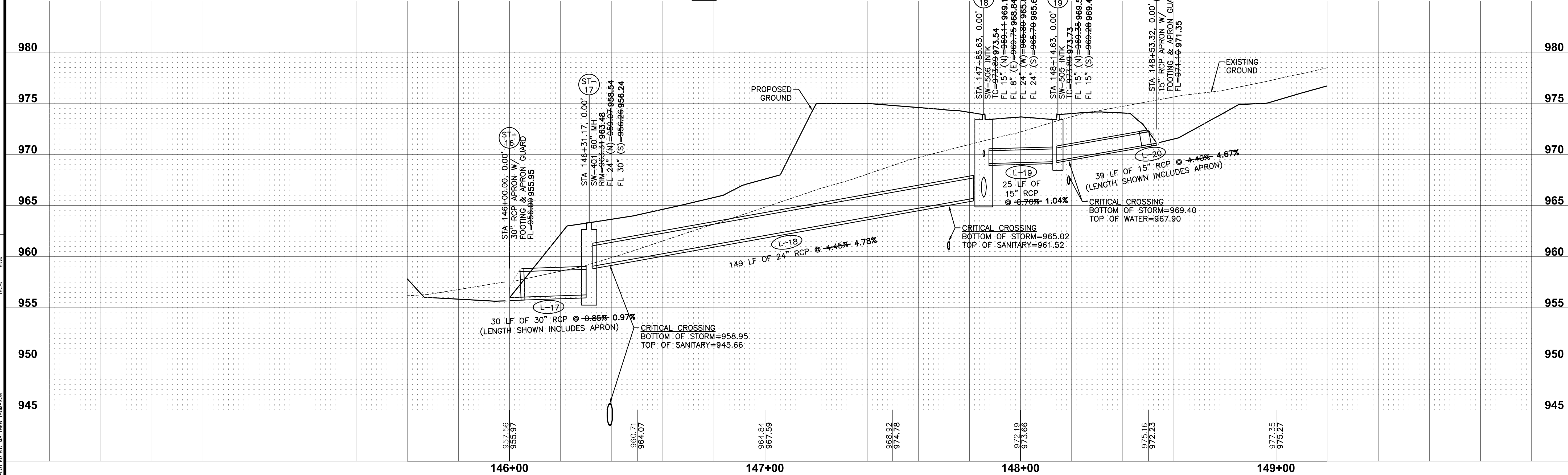
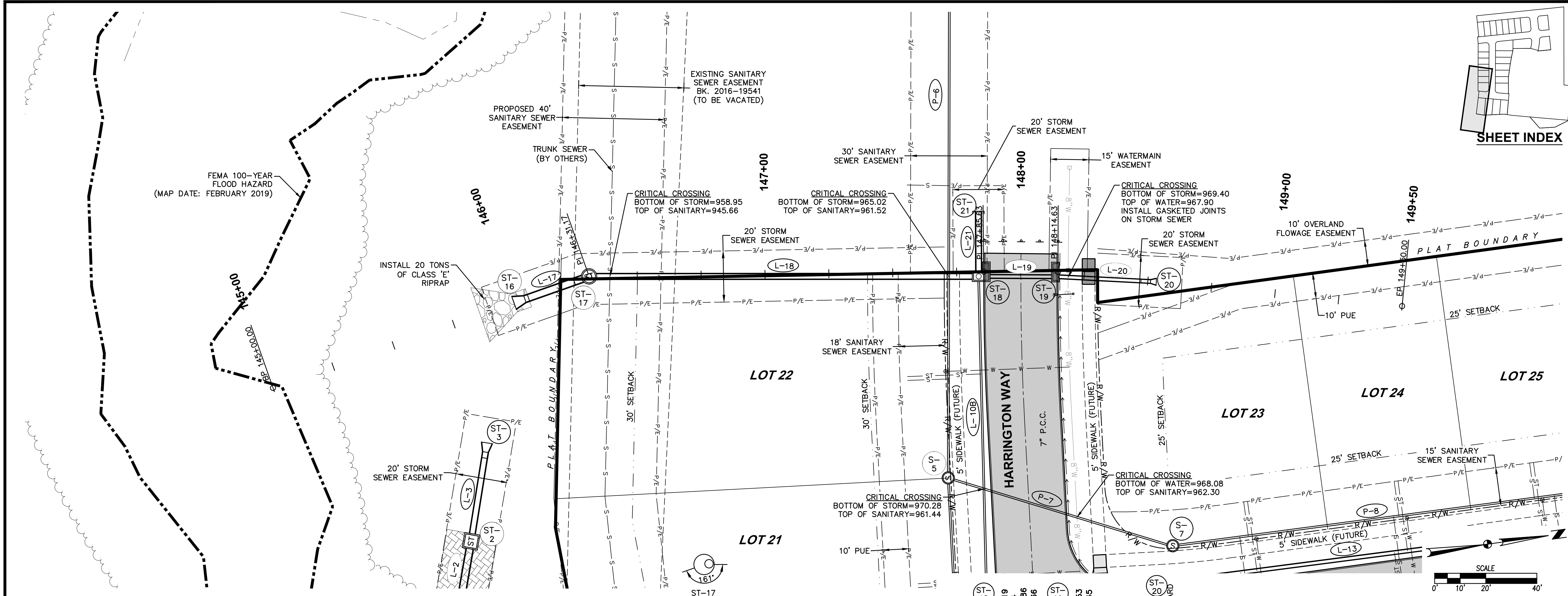


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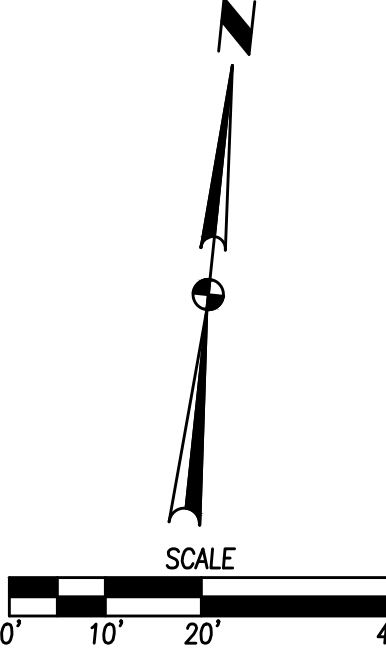
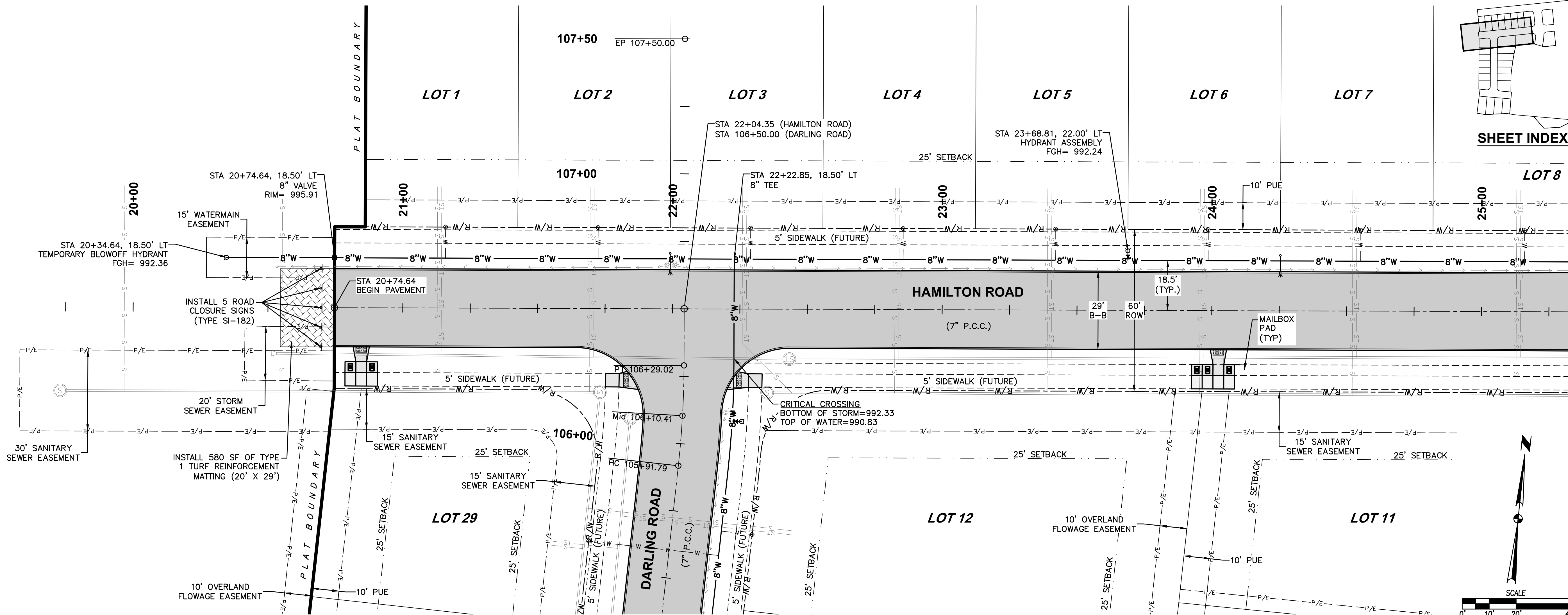
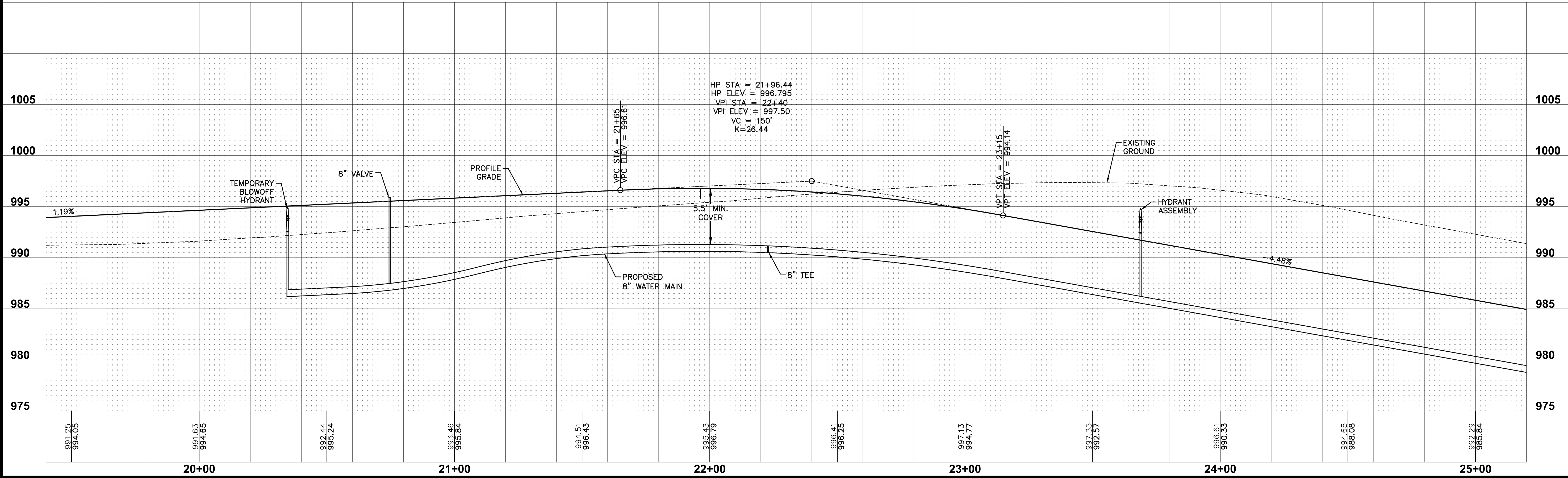
3405 S.E. CROSSROADS DRIVE, SUITE G
GRIMES, IOWA 50111
PHONE: (515) 369-4400 FAX: (515) 369-4410

ENGINEER: EO EI: JWM/CWO

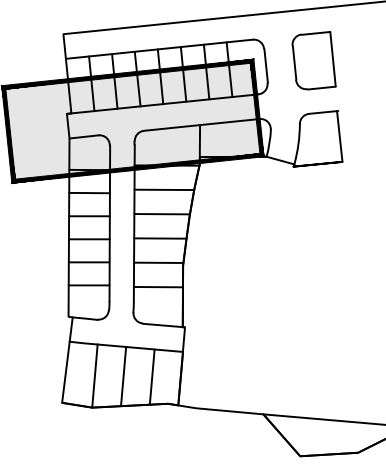
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FINAL SUBMITTAL	02/01/21
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SECOND SUBMITTAL	12/22/20
FIRST SUBMITTAL	11/10/20



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PLOTTED BY: WATKIN THOMPSON



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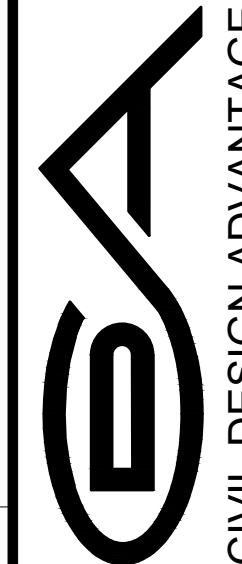


HAMILTON RIDGE PLAT 1

WATERMAIN PLAN AND PROFILE

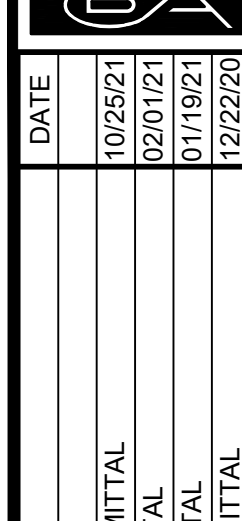
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2009.483

WAUKEE, IOWA

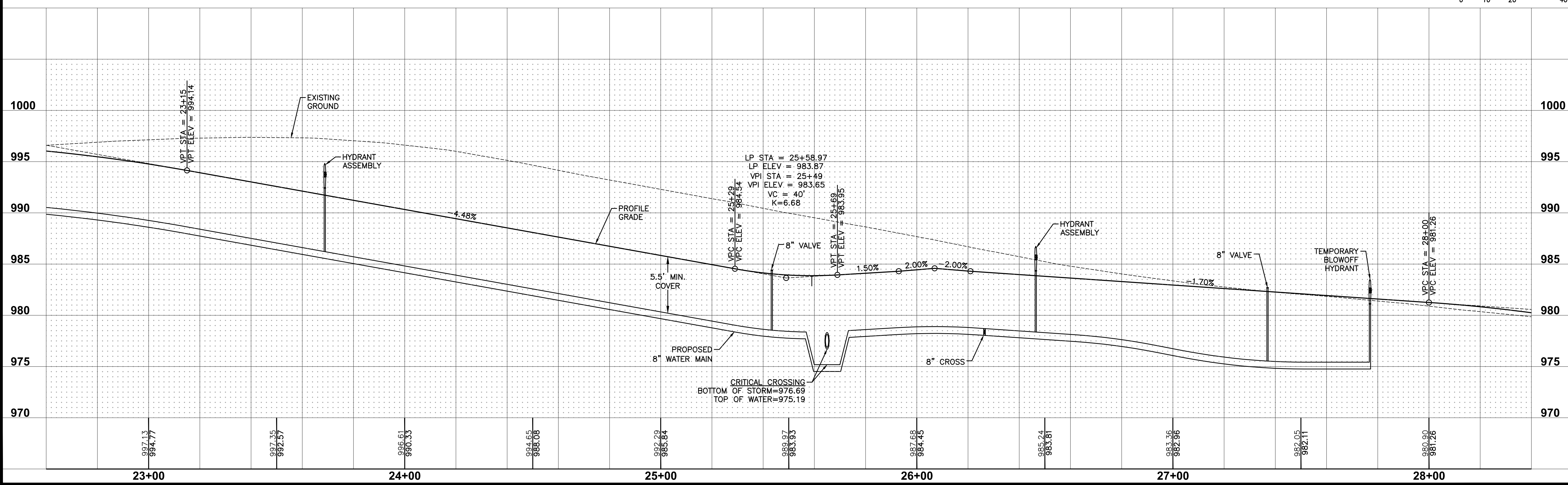
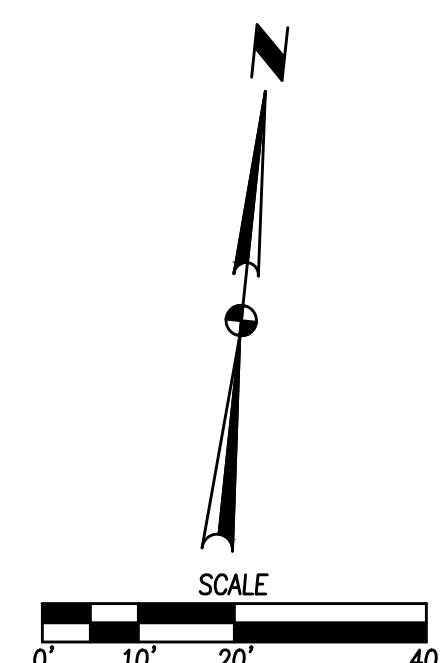
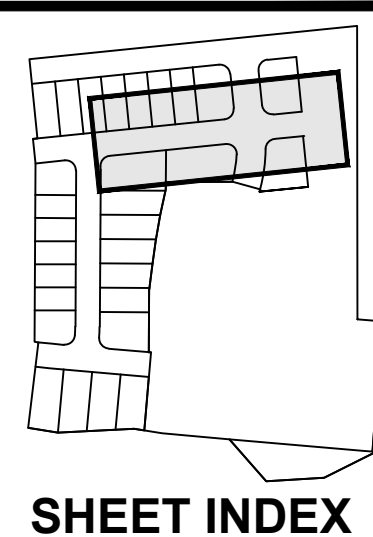
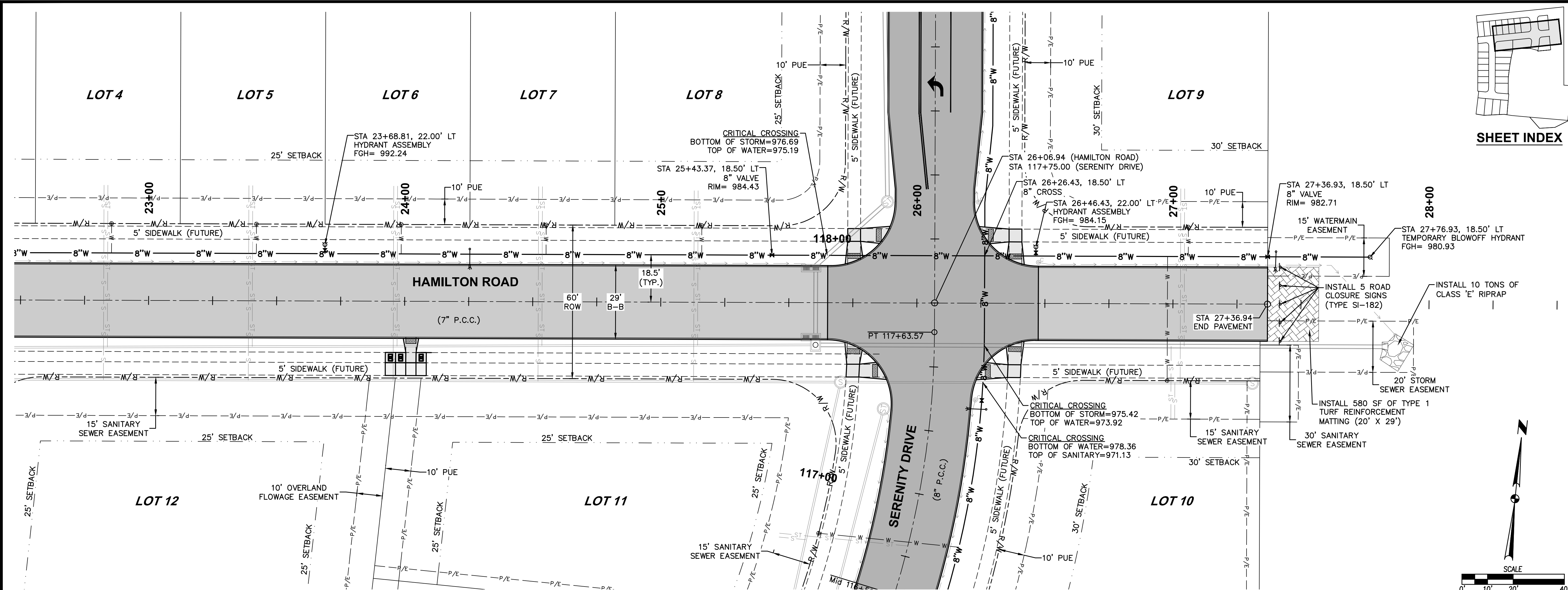


3405 S.E. CROSSROADS DRIVE, SUITE G
GRIMES, IOWA 50111
PHONE: (515) 369-4400 FAX: (515) 369-4410
ENGINEER: EO
EI: JWM/CWO

REVISIONS	DATE
AS-BUILT SUBMITTAL	10/25/21
FINAL SUBMITTAL	02/01/21
THIRD SUBMITTAL	01/19/21
SECOND SUBMITTAL	12/22/20
FIRST SUBMITTAL	11/10/20



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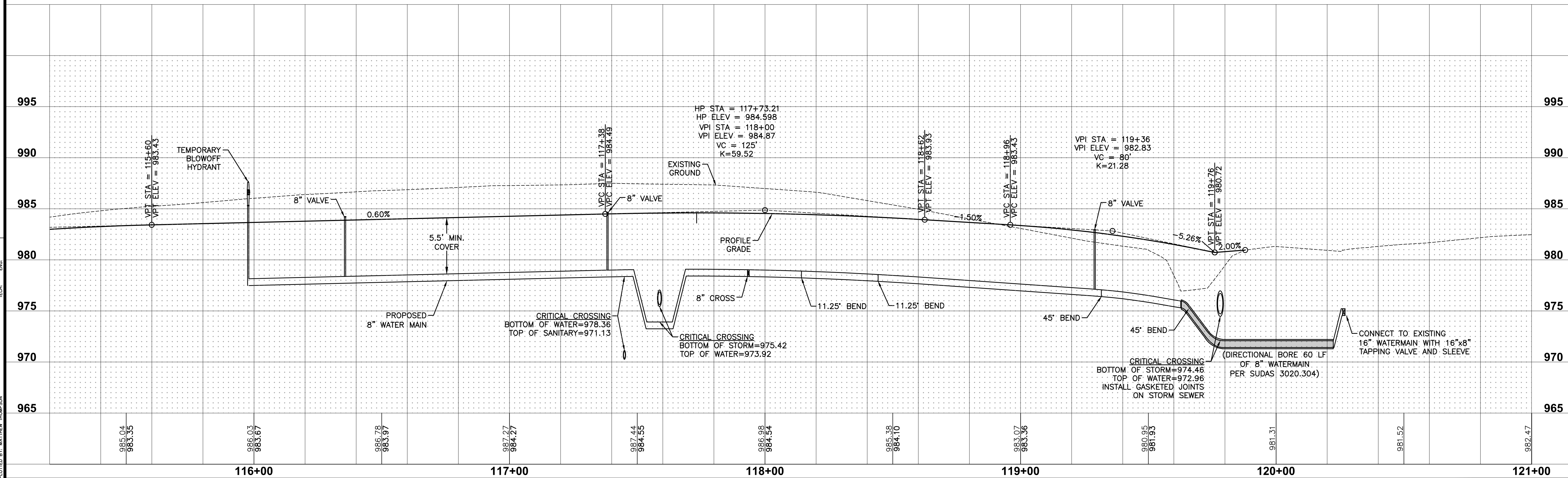
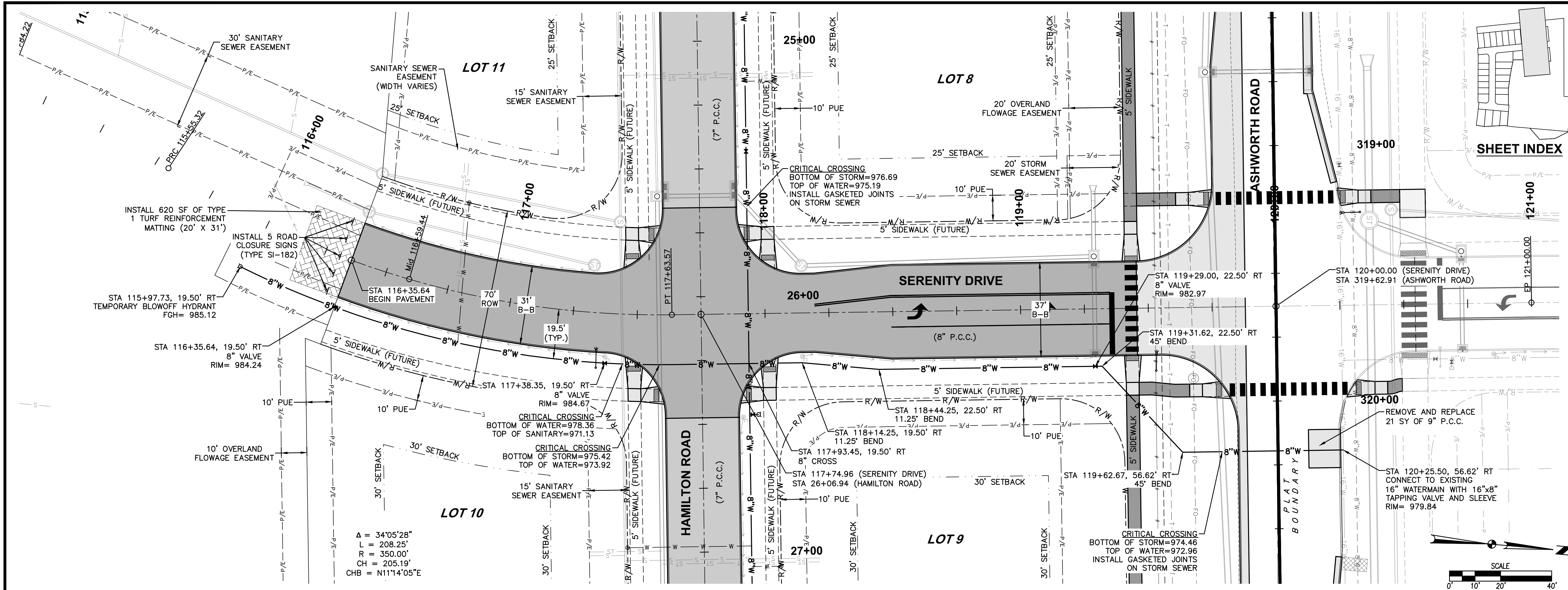


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10/25/21	AS-BUILT SUBMITTAL
02/01/21	FINAL SUBMITTAL
01/19/21	THIRD SUBMITTAL
12/22/20	SECOND SUBMITTAL
11/10/20	FIRST SUBMITTAL

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ENGINEER: EO
E.I.: JWM/CWO

HAMILTON RIDGE PLAT 1
WATERMAIN PLAN AND PROFILE

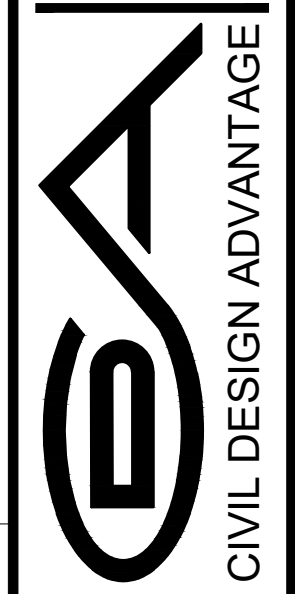
22/29
2009.483



	
REVISIONS	DATE
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FINAL SUBMITTAL	02/01/21
THIRD SUBMITTAL	01/19/21
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3405 S.E. CROSSROADS DRIVE, SUITE G
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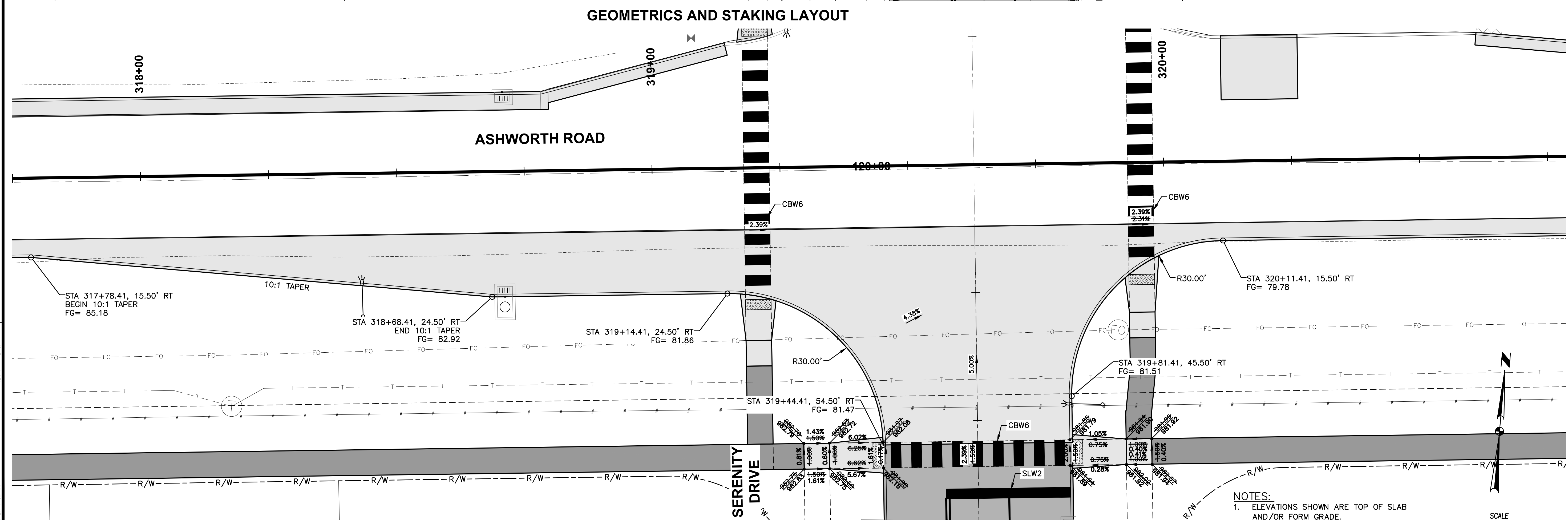
ENGINEER: EO	EI: JWM/CWO
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HAMILTON RIDGE PLAT 1

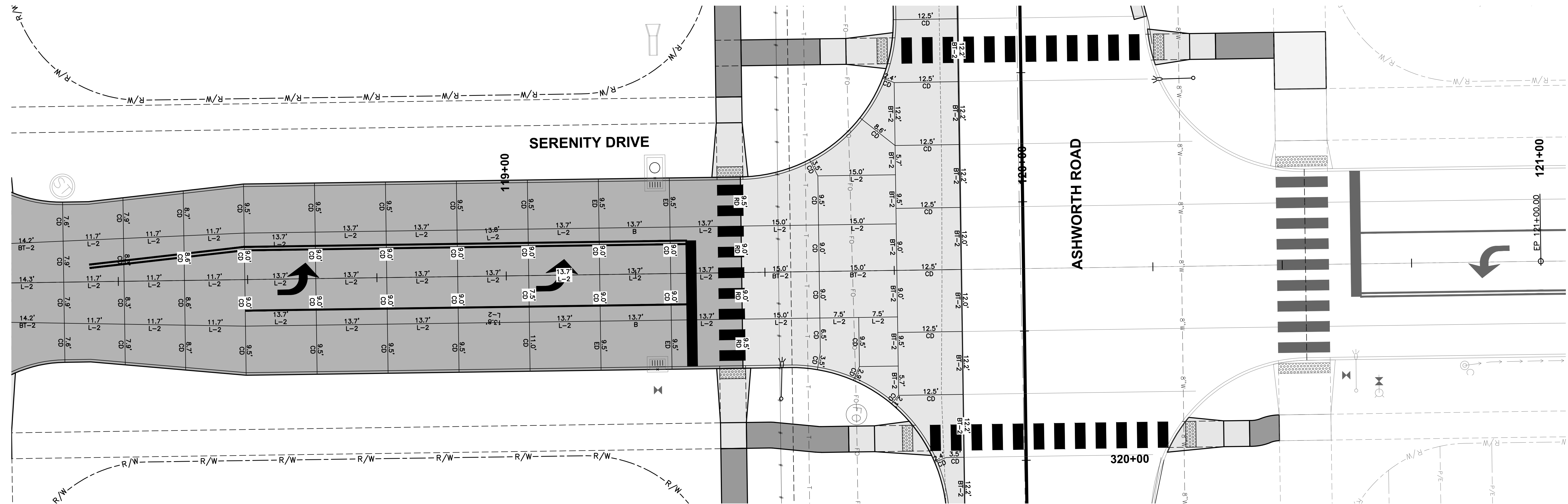
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WAUKEGE

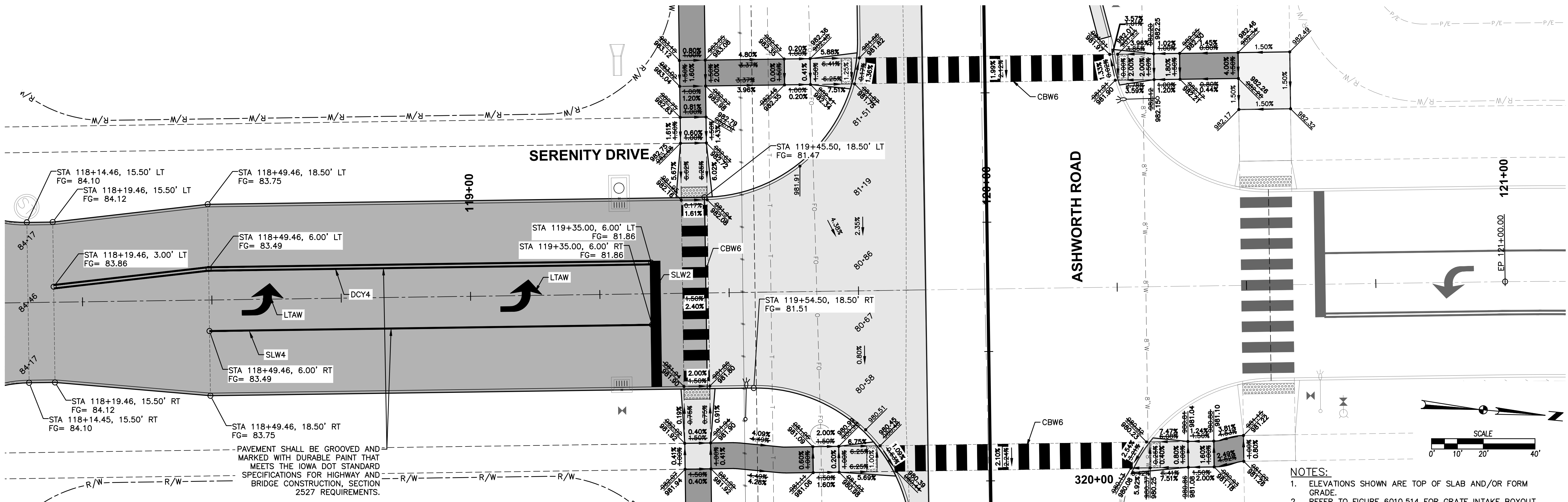


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TECH:
ENG:

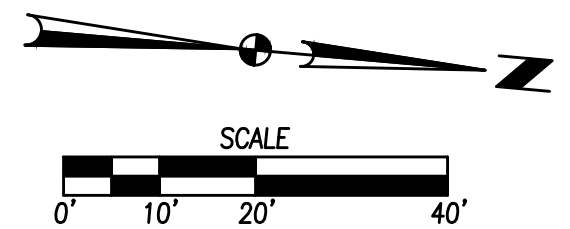


GEOMETRICS AND STAKING LAYOUT

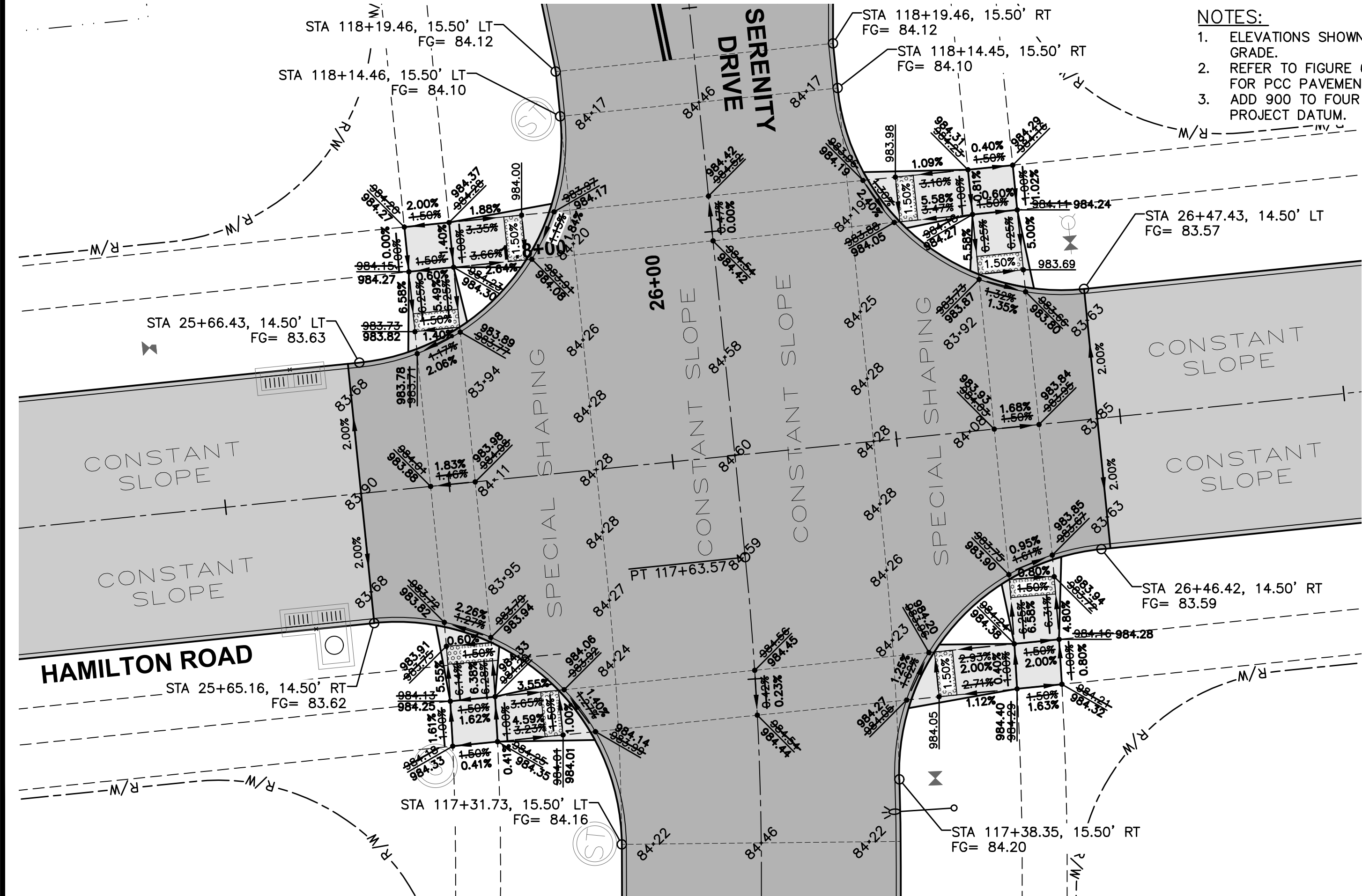


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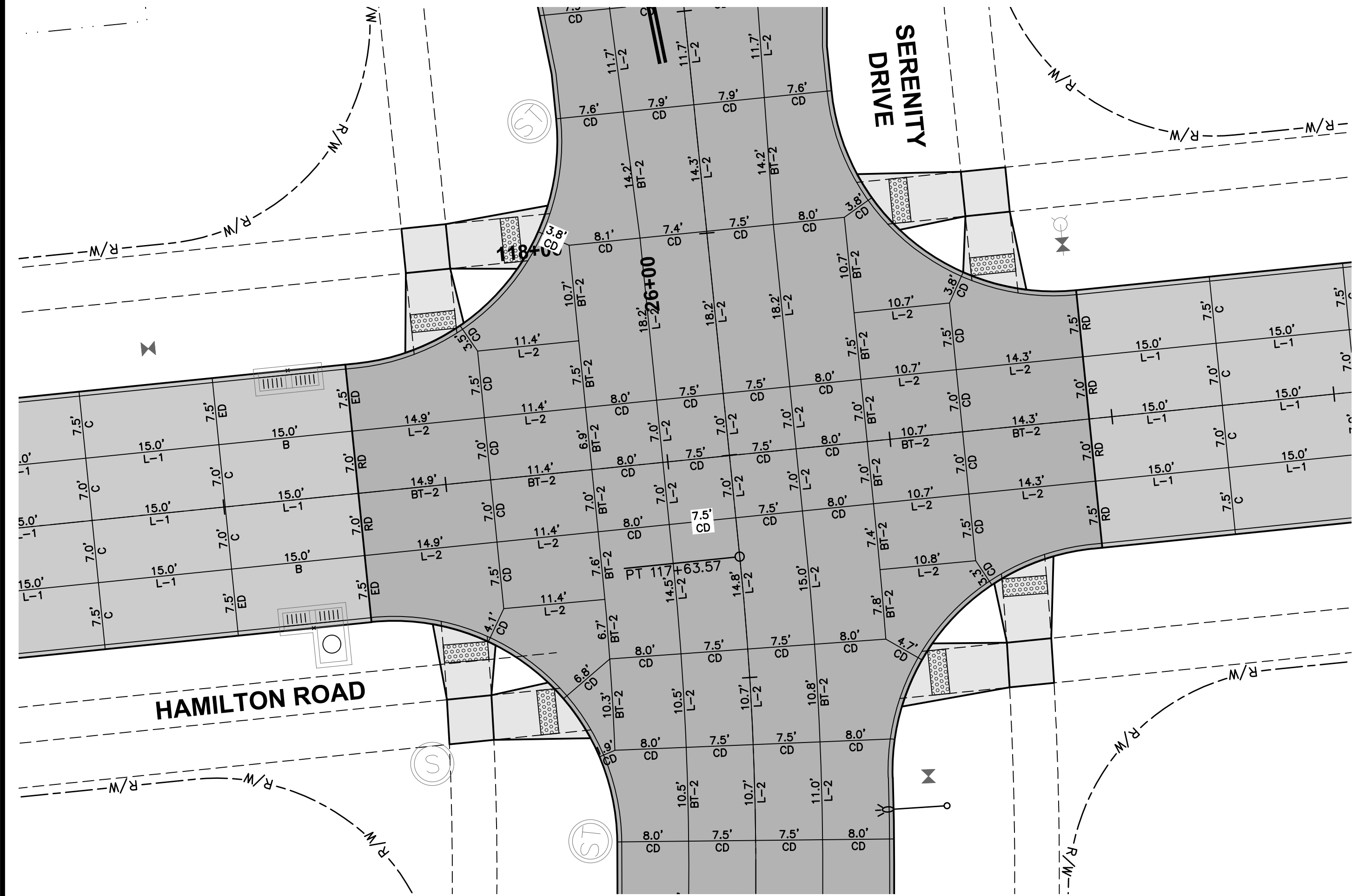
PAVEMENT SHALL BE GROOVED AND MARKED WITH DURABLE PAINT THAT MEETS THE IOWA DOT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, SECTION 2527 REQUIREMENTS.



- NOTES:
- ELEVATIONS SHOWN ARE TOP OF SLAB AND/OR FORM GRADE.
 - REFER TO FIGURE 6010.514 FOR GRATE INTAKE BOXOUT FOR PCC PAVEMENT DETAILS.
 - ADD 900 TO FOUR DIGIT SPOT ELEVATIONS TO OBTAIN PROJECT DATUM.

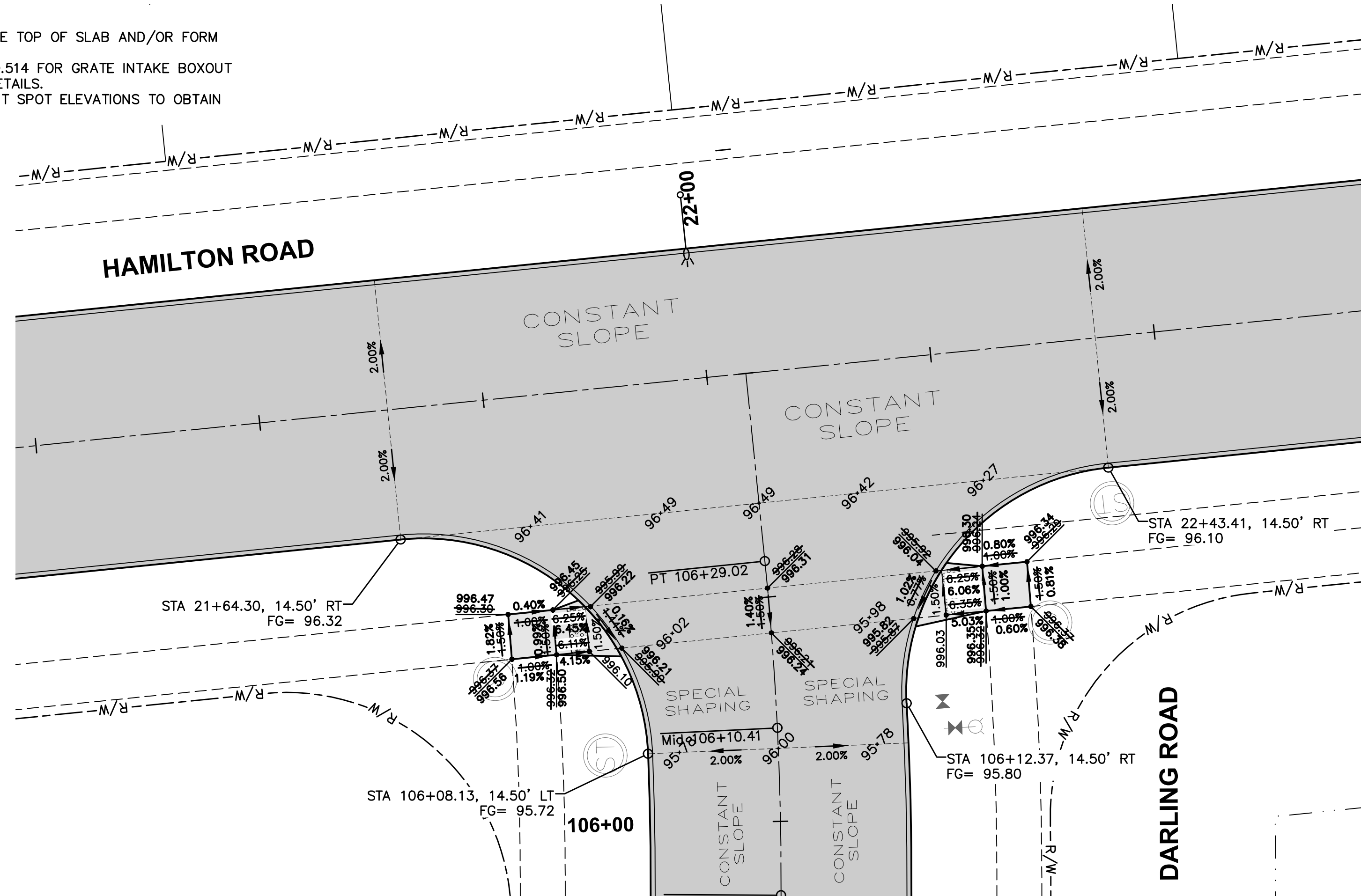
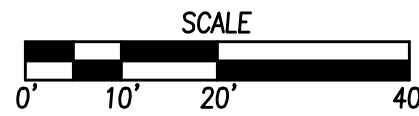


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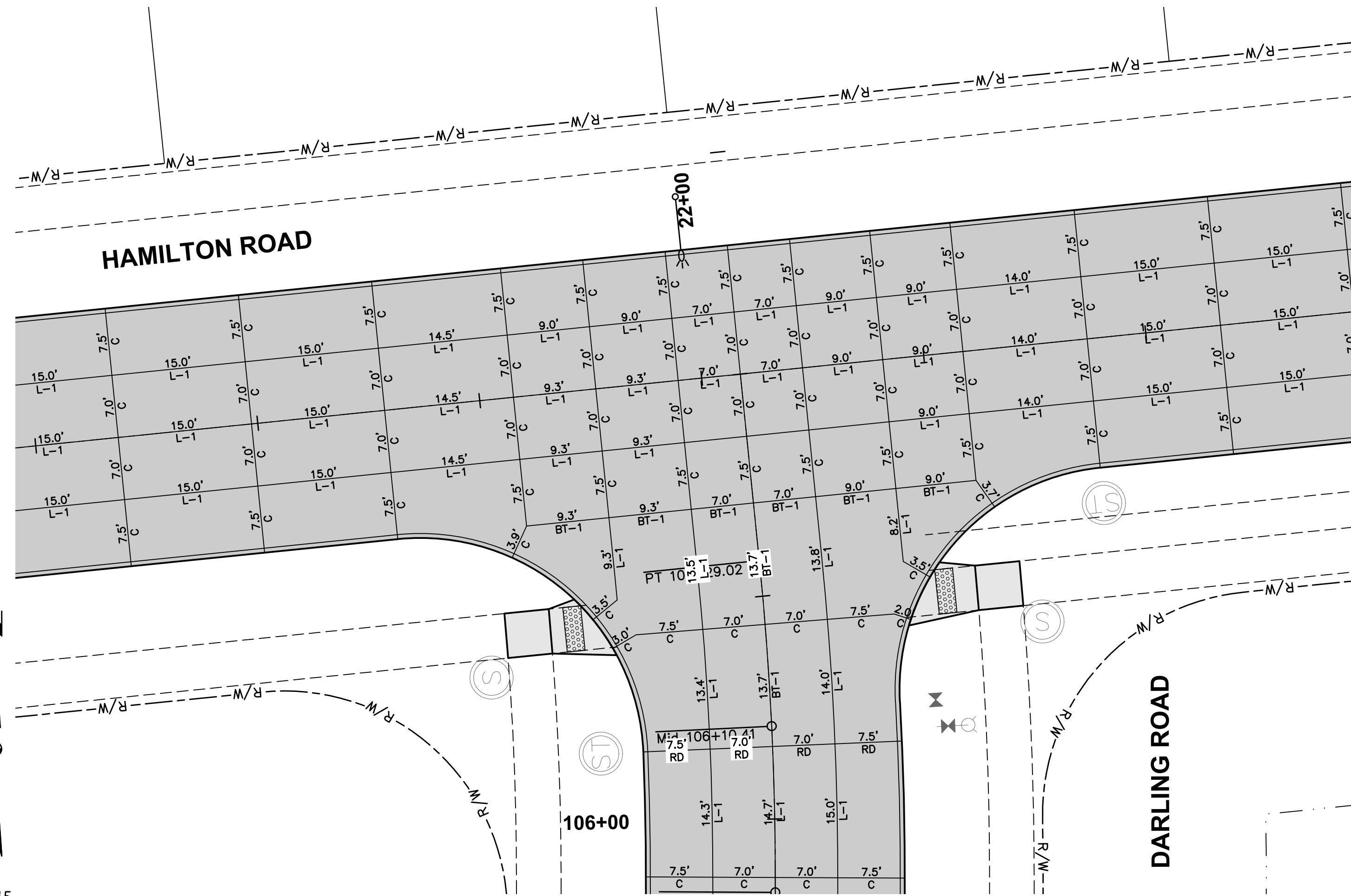


GEOMETRICS AND STAKING LAYOUT

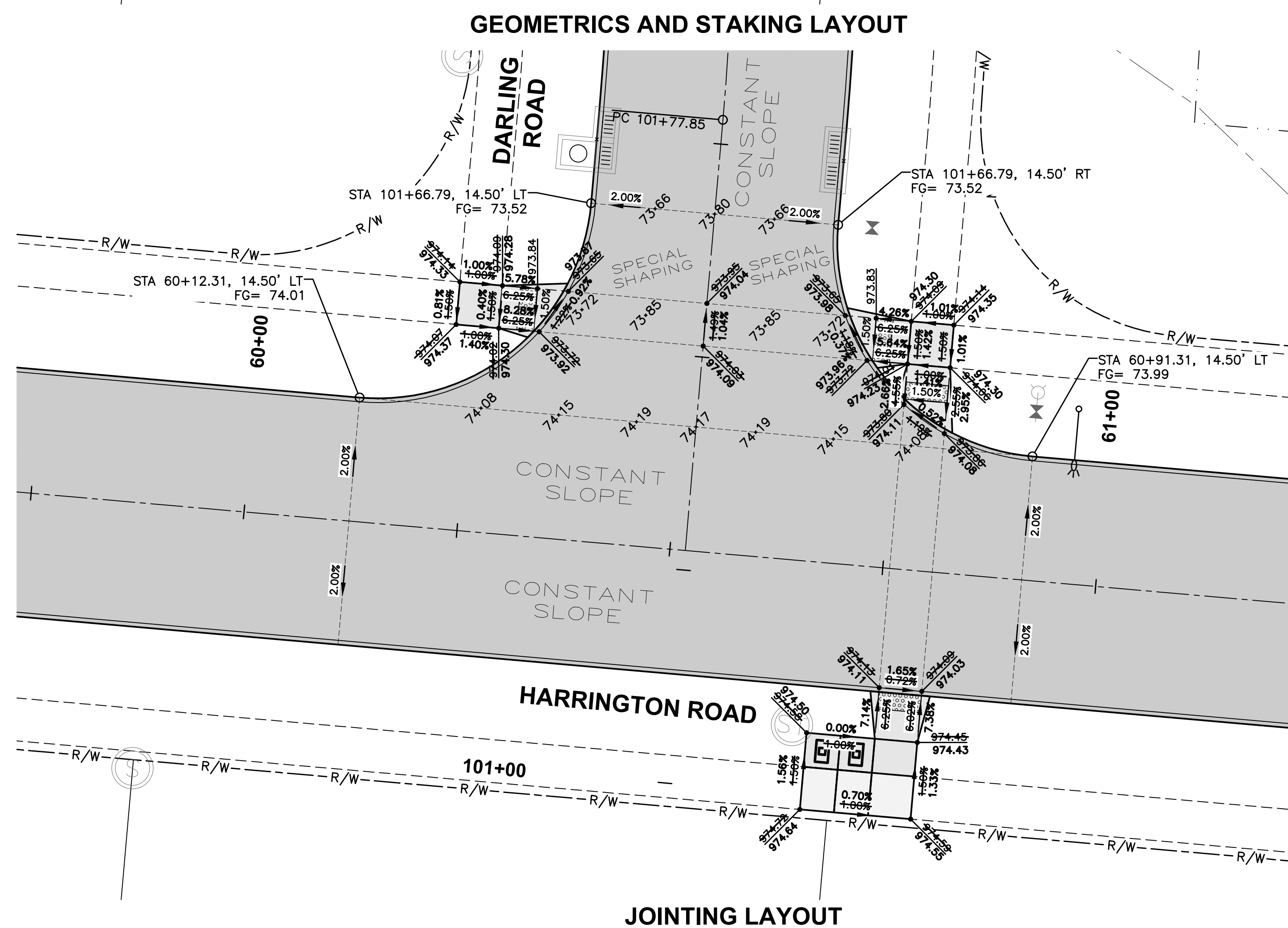
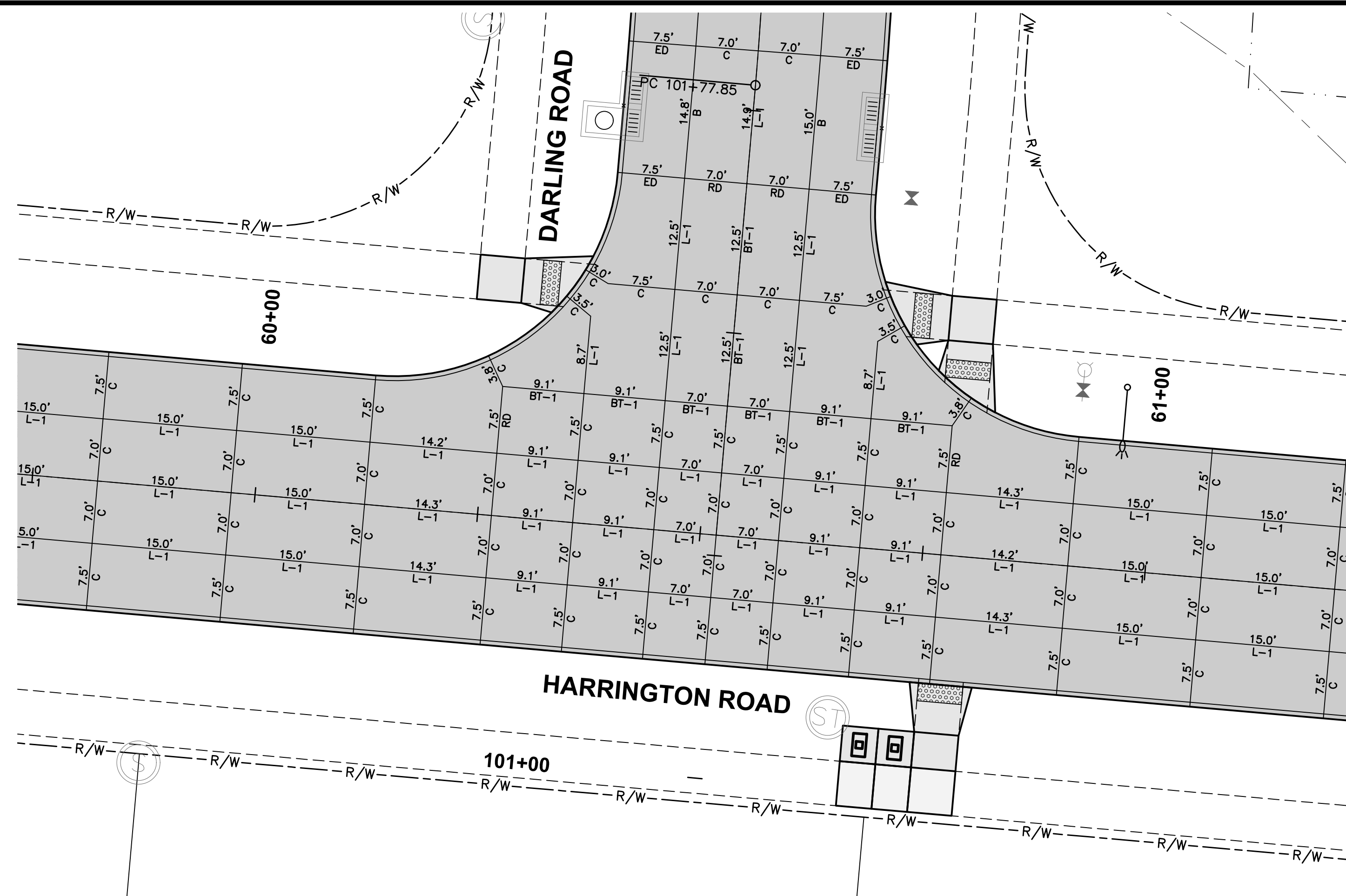
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1. ELEVATIONS SHOWN ARE TOP OF SLAB AND/OR FORM GRADE.
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JOINTING LAYOUT



GEOMETRICS AND STAKING LAYOUT



- NOTES:

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2. REFER TO FIGURE 6010.514 FOR GRATE INTAKE BOXOUT FOR PCC PAVEMENT DETAILS.
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