

LOT 1, WAUKEE TOWNE CENTER PLAT 2 WAUKEE, IOWA

WAUKEE TOWNE CENTER LLC, 611 MONTICELLO DRIVE, BURLINGTON, IA 52601



VICINITY SKETCH

THIS SITE

GENERAL NOTES:

- CONTRACTOR SHALL ARRANGE FOR TESTING AND INSPECTION AND NOTIFY THE FOLLOWING AT LEAST ONE WEEK PRIOR TO BEGINNING CONSTRUCTION.
 - CITY OF WAUKEE ENGINEERING DEPARTMENT
 - WAUKEE TOWNE CENTER, LLC
 - CIVIL ENGINEERING CONSULTANTS, INC. PHONE: 515.276.4884
 - IOWA ONE-CALL
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND LEASES NEEDED TO CONSTRUCT PROJECT.
- CONTRACTOR SHALL SCHEDULE PRE-CONSTRUCTION MEETINGS WITH DEVELOPMENT SERVICES ONE WEEK PRIOR TO COMMENCING CONSTRUCTION.
- ALL ELEVATIONS ARE PROPOSED FINISHED GRADE AT CENTERLINE UNLESS OTHERWISE NOTED.
- LOCATION OF EXISTING FACILITIES AND APPURTENANCES SHOWN ON PLAN ARE BASED ON AVAILABLE INFORMATION WITHOUT UNCOVERING AND MEASURING TO DETERMINE EXACT FACILITIES LOCATIONS. CIVIL ENGINEERING CONSULTANTS, INC. DOES NOT GUARANTEE LOCATION OF EXISTING FACILITIES AS SHOWN, OR THAT ALL EXISTING FACILITIES ARE SHOWN. IT IS CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL PUBLIC AND PRIVATE UTILITY PROVIDERS SERVING AREA, AND IOWA ONE CALL, TO DETERMINE EXTENT AND PRECISE LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION BEGINS.
- CONTRACTOR SHALL PROTECT EXISTING ON-SITE FACILITIES FROM DAMAGE RESULTING FROM CONTRACTOR'S WORK. IF DAMAGE, BREAKAGE, INTERRUPTION OF SERVICE, ETC. OF EXISTING FACILITIES DOES OCCUR CONTRACTOR SHALL IMMEDIATELY CONTACT UTILITY'S OWNER.
- CONTRACTOR SHALL RECONNECT ALL FIELD TILE INTERCEPTED DURING CONSTRUCTION AND RECORD LOCATION FOR AS-BUILT PLANS.
- CIVIL ENGINEERING CONSULTANTS, INC. IS NOT A GEOTECHNICAL ENGINEER.
- IF THERE IS ANY DISCREPANCY BETWEEN DETAILED PLANS AND QUANTITIES SUMMARY PLEASE CONTACT CIVIL ENGINEERING CONSULTANTS, INC.
- ALL TRENCH BACKFILL SHALL BE 95% STANDARD PROCTOR DENSITY.
- IT IS RESPONSIBILITY OF CONTRACTOR TO ARRANGE FOR INSPECTIONS AS NEEDED.
- ANY PROPOSED CHANGES TO PLAN SET DURING CONSTRUCTION ARE TO RECEIVE WRITTEN APPROVAL FROM CITY OF WAUKEE COMMUNITY DEVELOPMENT DEPARTMENT. CONTRACTOR IS RESPONSIBLE FOR ANY CHANGES MADE DURING CONSTRUCTION THAT HAVE NOT RECEIVED WRITTEN PERMISSION FROM CITY OF WAUKEE COMMUNITY DEVELOPMENT DEPARTMENT.
- ANY EXISTING FENCE ON PROPERTY SHALL BE REMOVED AS PART OF PROJECT.
- ALL FIRE HYDRANTS ARE TO HAVE 5" STORZ FITTINGS INCLUDING ANY RELOCATED HYDRANTS.
- ANY TIE-INS TO EXISTING CITY UTILITIES SHOULD BE COORDINATED WITH CITY OF WAUKEE ENGINEERING DEPARTMENT.
- ALL UTILITIES ARE TO BE TESTED TO CITY OF WAUKEE STANDARDS AND TO BE WITNESSED BY WAUKEE ENGINEERING DEPARTMENT STAFF.
- DEBRIS SPILLED ALONG-OF-WAY AND STREETS SHALL BE CLEANED UP AT END OF EACH WORKING DAY AND PRIOR TO RAIN EVENT.
- CONSTRUCTION STAKING SHALL BE UNDER DIRECTION OF LICENSED ENGINEER OR LAND SURVEYOR.
- PEDESTRIAN FACILITIES STAKING SHALL BE UNDER DIRECTION OF LICENSED ENGINEER OR LAND SURVEYOR.
- CONTRACTOR SHALL PROVIDE CITY OF WAUKEE COMMUNITY DEVELOPMENT DEPARTMENT 48 HOUR NOTICE PRIOR TO WEEKEND AND HOLIDAY WORK.
- PERMIT SHALL BE OBTAINED FROM WAUKEE COMMUNITY DEVELOPMENT DEPARTMENT FOR ANY PROPOSED SIGNAGE.
- CITY IS NOT LIABLE TO REPLACE ANY PAVEMENT WITHIN SANITARY SEWER EASEMENT OR WATER MAIN EASEMENT ON REAR OF LOT IF PAVEMENT NEEDS TO BE REMOVED TO MAINTAIN EITHER OF THOSE UTILITIES.
- ALL WORK SHALL BE IN ACCORDANCE WITH 2020 CITY OF WAUKEE STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS AND 2022 SUDAS.
- SANICUTTING OR CONCRETE GRINDING WILL BE PERFORMED ON SITE. STORM SEWER AND DRAINAGE WAYS SHALL BE PROTECTED FROM SLURRY DUE TO CONCRETE DISCHARGE IN ORDER TO ALLOW OFFSITE DISCHARGE.
- RETAINING WALL SHALL BE DESIGNED BY AN ENGINEER CERTIFIED IN THE STATE OF IOWA. THIS ENGINEER SHALL SUBMIT THE DESIGN OF THE RETAINING WALL TO THE CITY OF WAUKEE COMMUNITY DEVELOPMENT DEPARTMENT PRIOR TO CONSTRUCTION.
- THE DETENTION BASIN WITHIN OUTLOT "Y" SHALL BE MAINTAINED BY THE OWNER OF OUTLOT "Y". THE DETENTION BASIN WITHIN THE EASEMENT IN LOT 1 SHALL BE OWNED AND MAINTAINED BY THE ASSOCIATION.

THE PRESERVER NOTES

- THE PRESERVER SHALL BE MAINTAINED AND INSPECTED IN ACCORDANCE WITH MOMENTUM ENVIRONMENTAL'S PRESERVER INSPECTION AND MAINTENANCE MANUAL. THE MANUAL CAN BE OBTAINED BY CONTACTING THE ENGINEER.
- THE PRESERVER SHALL BE INSPECTED AT A MINIMUM, TWICE ANNUALLY, IN THE SPRING AND FALL. SPRING INSPECTION SHALL OCCUR AFTER SNOWMELT, BLOSSOM/SEED FALL AND SPRING STREET CLEANING AND SHALL OCCUR PRIOR TO HEAVY RAINFALL. FALL INSPECTION SHALL OCCUR AFTER LEAF FALL AND FALL STREET CLEANING AND SHALL OCCUR PRIOR TO SNOWRAINFALL.
 - NOTICEWORTHY ITEMS DURING INSPECTION SHALL INCLUDE (BUT NOT LIMITED TO):
 - POLLUTANT DEPOSITS - OIL/FLOATABLES, SEDIMENT/SETTLABLE SOLIDS
 - SITE CONDITIONS - STABILIZATION, CONSTRUCTION ACTIVITY, EQUIPMENT WASH-DOWN, EROSION, WINTER SANDING
 - MAINTENANCE/CLEANING PERFORMANCE
 - POLLUTANT COMPOSITION - HYDROCARBONS (OIL, GAS, GREASE), TRASH, ORGANICS
 - WATER LEVEL - BELOW OUTLET INVERT INDICATES BACKFLOW
 - STRUCTURAL CONDITION - CASTING CONDITION, CHIMNEY CONDITION (ADJUSTING RING DETERIORATION, LEAKING/PROPER SEAL), SPALLING CONCRETE, PRESERVER COMPONENTS (CONDITION, CONNECTIONS, DEBRIS ACCUMULATION)
 - MAINTENANCE FREQUENCY SHALL BE DETERMINED BASED OFF OF INSPECTIONS AND THE POLLUTANT STORAGE VOLUME (POLLUTANT STORAGE VOLUME SHALL BE DETERMINED IN ACCORDANCE WITH MOMENTUM ENVIRONMENTAL'S PRESERVER INSPECTION AND MAINTENANCE MANUAL)
 - TYPICAL STRUCTURE CLEANOUT SHALL INCLUDE VACUUMING OUT THE WATER AND DEBRIS CONTAINED IN THE STRUCTURE. WATER CAN BE SPRAYED TO DISLODGE AND/OR MOVE DEBRIS FOR VACUUM COLLECTION. COLLECTED POLLUTANTS SHALL BE PROPERLY DISPOSED OF. CONTAINED SHALL ENTRY PROCEDURES SHALL BE FOLLOWED IF PHYSICAL ACCESS IS NECESSARY.
 - STRUCTURAL CONDITION SHALL BE DETERMINED AFTER CLEANOUT OF THE STRUCTURE. ANY NECESSARY REPAIRS SHALL OCCUR AS SOON AS POSSIBLE.

WATER NOTES

- FOLLOW WAUKEE STANDARD SPECIFICATIONS FOR PIPE MATERIALS, FIRE HYDRANTS, CURB STOPS, VALVES AND INSTALLATION.
- CONTRACTOR SHALL PROTECT AND BACKFILL AROUND ALL UTILITIES AND STRUCTURES. BACKFILL SHALL BE IN IN ACCORDANCE WITH WAUKEE STANDARD SPECIFICATIONS.
- HYDRANTS, MANHOLE COVERS AND VALVE BOXES SHALL BE SET TO CONFORM TO FINISHED PAVEMENT ELEVATIONS.
- HYDRANTS SHALL BE SET NOT MORE THAN 4 FEET FROM CENTER OF WATER MAIN U.N.O.
- AN APPROVED SADDLE SHALL BE USED FOR ALL WATER SERVICE TAPS.
- ALL SERVICE LINES SHALL BE TESTED WITH WATER MAIN.
- WHERE SEWERS CROSS OVER OR LESS THAN 18-INCHES BELOW WATER MAIN:
 - FOR STORM SEWERS FLEXIBLE O-RING-GASKET JOINTS RATED AT 13 PSI OR GREATER SHALL BE UTILIZED UNTIL NORMAL DISTANCE FROM SEWER TO WATER MAIN IS AT LEAST 10'.
 - ONE FULL LENGTH OF WATER MAIN SHALL BE LOCATED SO BOTH JOINTS AREA AS FAR AS POSSIBLE FROM SEWER.
 - SEWER MUST BE ADEQUATELY SUPPORTED.
 - LOW PERMEABLE SOIL SHALL BE USED FOR BACKFILL WITHIN 10' OF POINT OF CROSSING.
- ALL HYDRANTS SHALL HAVE 5" STORZ FITTINGS INCLUDING ANY RELOCATED HYDRANT.
- ALL STORM SEWER CROSSINGS ABOVE WATER MAIN WILL NEED TO INSTALL O-RING JOINT PIPE FOR 20' CENTERED OVER WATER MAIN. SEWER CROSSINGS MAY ALSO FOLLOW IDNR WATER SUPPLY ENGINEERING SECTION ALTERNATIVE SOLUTIONS TO MEETING REQUIREMENTS FOUND IN SUBPARAGRAPH 501 IAC 43.9(2) "A" (3).
- CONTRACTOR TO DIRECT SERVICE TO BORE UNDER STREET TO WEST FOR 8" SERVICE.
- CONTRACTOR TO MAKE WATER TAP. CONTACT CITY PUBLIC WORKS AS REQUIRED FOR INSPECTION AND OBSERVATION OF ALL ACTIVITIES RELATED TO CONNECTION OF SERVICES TO PUBLIC INFRASTRUCTURE.

STORM NOTES

- PROVIDE A 3" WIDE CLAY WATER STOP APRON GUARDS & CONCRETE FOOTINGS ON ALL FLARED END SECTIONS.
- CONTRACTOR SHALL TIE LAST THREE PIPE JOINTS AT FLARED END SECTION.
- ALL STORM SEWER ARE TO BE CLEANED AND TELEVIEWED UPON COMPLETION.
- PAVEMENT REINFORCEMENT IS REQUIRED WHERE EARTH COVER OVER STORM SEWERS IS LESS THAN 2 FEET.

SANITARY NOTES

- CASTING TYPES ARE FROM SUDAS, SPECS.
- CONNECTIONS TO EXISTING MANHOLES ARE TO BE CORE DRILLED AND USE LINK SEAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING AS-BUILT LOCATIONS OF ALL SANITARY SEWER SERVICES & PROVIDING INFORMATION TO ENGINEER.
- CONTRACTOR SHALL CLEAN SANITARY SEWER AT PROJECT COMPLETION.
- ALL MANHOLES AND MANHOLE CASTINGS MUST BE ROTATED AS REQUIRED TO AVOID MANHOLE CONFLICTS WITH SIDEWALKS.
- ALL SANITARY MANHOLES SHALL BE VACUUM TESTED.
- ONE WEEK PRIOR TO SANITARY SEWER CONSTRUCTION, CONTRACTOR SHALL NOTIFY CITY OF WAUKEE.
- PIPE MATERIALS PER WAUKEE STANDARD SPECIFICATIONS.

FIRE SAFETY CONSTRUCTION NOTES:

- APPROVED FIRE APPARATUS ACCESS ROADS SHALL BE PROVIDED WHEN CONSTRUCTION BEGINS.
- IF PAVING IS NOT INSTALLED PRIOR TO BUILDING CONSTRUCTION AFTER FOOTING INSTALLATION, AN APPROVED ROUTE AROUND EXTERIOR OF BUILDING TO EXTEND TO WITHIN 100 FEET OF ALL PORTIONS OF EXTERIOR WALLS SHALL BE PROVIDED AND COMPLY WITH I.F.C. SECTION 503.2.

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GENERAL LEGEND

PROPOSED	EXISTING
--- PLAT BOUNDARY	- - - - LOT LINE
--- SECTION LINE	○ SANITARY/STORM MANHOLE
--- LOT LINE	○ WATER VALVE
--- CENTERLINE	○ FIRE HYDRANT
--- EASEMENT LINE	○ STORM SEWER SINGLE INTAKE
FLARED END SECTION	○ STORM SEWER DOUBLE INTAKE
○ DRAIN BASIN OR SEDIMENT RISER	○ STORM SEWER ROUND INTAKE
○ DRAIN BASIN WITH SOLID GRATE	○ FLARED END SECTION
○ WATER VALVE	○ DECIDUOUS TREE
○ FIRE HYDRANT ASSEMBLY	○ CONIFEROUS TREE
○ BLOW-OFF HYDRANT	○ SHRUB
○ SCOUR STOP MAT	○ POWER POLE
○ TURF REINFORCEMENT MAT	○ STREET LIGHT
○ STORM SEWER WITH SIZE	○ GUY ANCHOR
○ WATER SEWER WITH SIZE	○ ELECTRIC TRANSFORMER
○ WATER SERVICE	○ GAS METER
○ PROPOSED CONTOUR	○ TELEPHONE RISER
○ SILT FENCE	○ SIGN
○ ADDRESS	○ UNDERGROUND TELEVISION
○ RIPRAP	○ UNDERGROUND ELECTRIC
	○ UNDERGROUND GAS
	○ UNDERGROUND FIBER OPTIC
	○ UNDERGROUND TELEPHONE
	○ OVERHEAD ELECTRIC
	○ SANITARY SEWER WITH SIZE
	○ STORM SEWER WITH SIZE
	○ WATER MAIN WITH SIZE
	○ EXISTING CONTOUR
	○ TREELINE
	○ BUILDING SETBACK LINE
	○ PUBLIC UTILITY EASEMENT
	○ MINIMUM OPENING ELEVATION

POND MAINTENANCE PLAN FROM ISWMM SECTION 9.11 Pg. 44

ACTIVITY	SCHEDULE
INSPECT STORM INLETS, OUTLETS FOR DEBRIS. LOOK FOR SIGNS OF SEDIMENT ACCUMULATION, FLOW CHANNELIZATION, EROSION DAMAGE, LOCAL STREAMBANK INSTABILITY. CHECK THE OUTFALL FOR SIGNS OF SURFACE EROSION, SEEPAGE, OR TUNNELING ALONG OUTFALL PIPE.	AT LEAST ANNUALLY AND AFTER RAIN EVENTS OF 1.25" OR LARGER
CLEAN AND REMOVE DEBRIS FROM INLET AND OUTLET STRUCTURE.	AT LEAST THREE TIMES ANNUALLY
MONITOR VEGETATION AND PERFORM REPLACEMENT PLANTING AS NECESSARY.	ANNUALLY (AFTER SHORT-TERM ESTABLISHMENT PERIOD)
EXAMINE STABILITY OF THE SAFETY BENCH AND SHORELINE EDGE - INSPECT FOR INVASIVE VEGETATION AND REMOVE WHERE POSSIBLE - INSPECT FOR DAMAGE TO THE EMBANKMENT AND INLET/OUTLET STRUCTURES, REPAIR AS NECESSARY - NOTE ANY SIGNS OF HYDROCARBON BUILD-UP AND REMOVE ACCORDINGLY	ANNUAL INSPECTION
REPAIR UNDERCUT OR ERODED AREAS.	WHEN OBSERVED
HARVEST WETLAND PLANTS THAT HAVE BEEN "CHOKED OUT" BY SEDIMENT ACCUMULATION.	ANNUALLY
REMOVE SEDIMENT WHEN TOTAL POOL VOLUME HAS BECOME REDUCED SIGNIFICANTLY (~25%), WHEN PLANTS ALONG POND EDGE ARE "CHOKED" WITH SEDIMENT OR THE POND BECOMES EUTROPHIC (ESTIMATED TIME: EVERY 10-20 YEARS).	AS NEEDED; WHEN APPROXIMATELY 25% OF THE TOTAL POOL VOLUME HAS BEEN LOST, OR AS NOTED

BENCHMARK

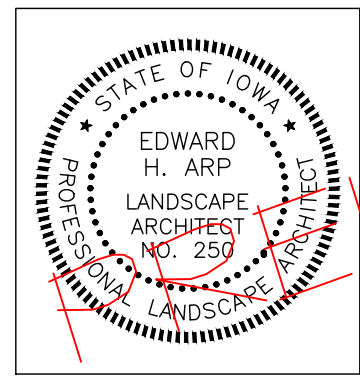
CUT 'X' ON TOP OF WEST CURB LINE OF LAUREL STREET IN FRONT OF FIRE HYDRANT AND LYING APPROXIMATELY 30 FEET SOUTH OF THE NW CORNER OF LOT 5, WAUKEE TOWNE CENTER PLAT 1.

ELEVATION-----1040.75

CERTIFICATION

I HEREBY CERTIFY THAT THE PORTION OF THIS/ TECHNICAL SUBMISSION DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A FULLY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF IOWA.

BY: EDWARD H. ARP, IOWA REG. NO. 250
DATE: _____
MY LICENSE RENEWAL DATE IS: JUNE 30, 2024
PAGES OR SHEETS COVERED BY THIS SEAL: _____
ALL DRAWINGS



PRELIMINARY - NOT FOR CONSTRUCTION

LOT 1, WAUKEE TOWNE CENTER PLAT 2
WAUKEE, IOWA
COVER

Civil Engineering Consultants, Inc.
2400 86th Street Unit 12 Des Moines, Iowa 50322
515.276.4884 mail@cecclac.com

CEC

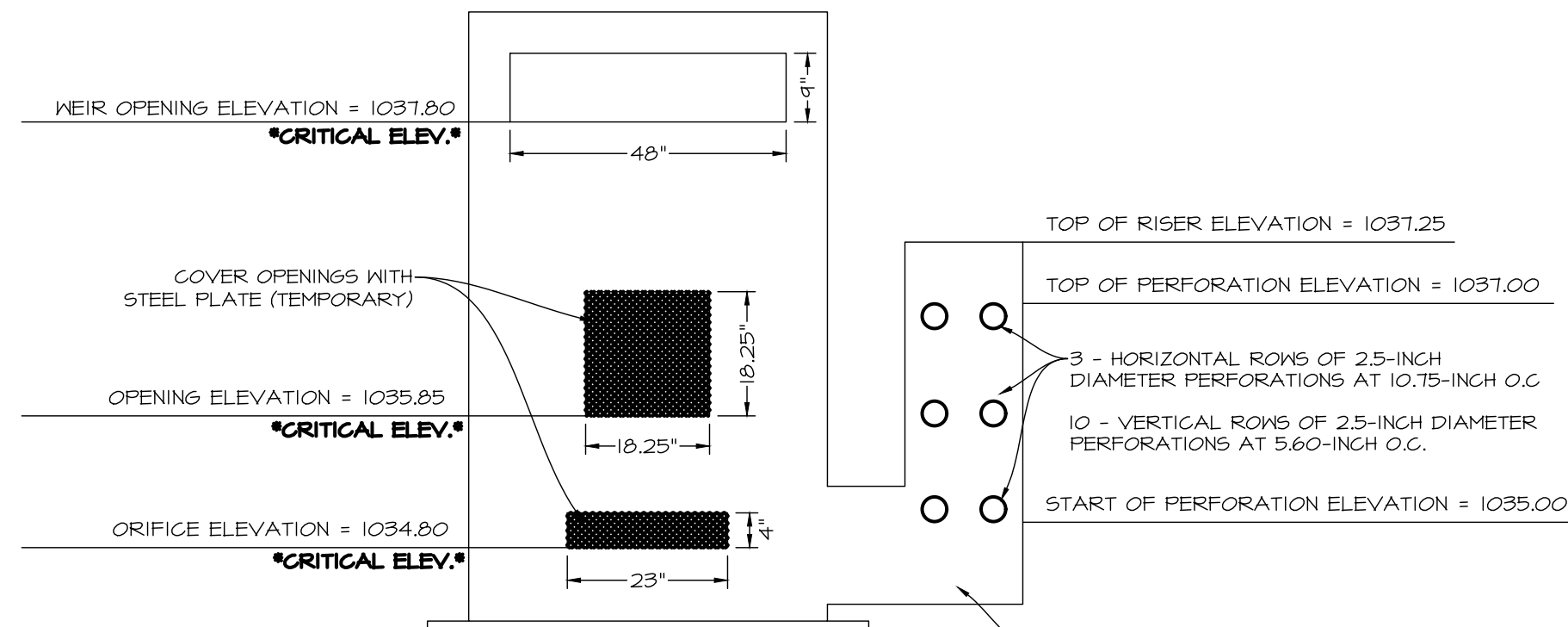
DATE: 2022-10-25 - 4TH SUBMITTAL
2022-04-22 - 3RD SUBMITTAL
2022-08-24 - 2ND SUBMITTAL
2022-07-26 - 1ST SUBMITTAL

DATE OF SURVEY: 2018-04-20
DESIGNED BY: EHA
DRAWN BY: NMI

SHEET
OF 27

A-25T

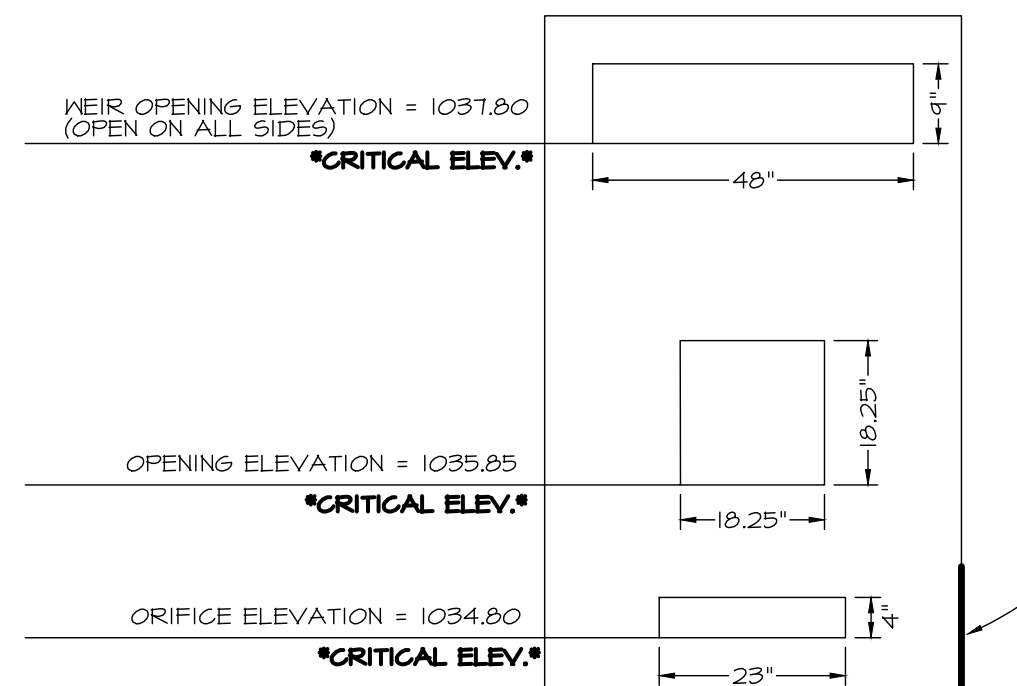




**ST 001 DETAIL
TEMPORARY CONDITION
(SOUTH SIDE)**

NO SCALE

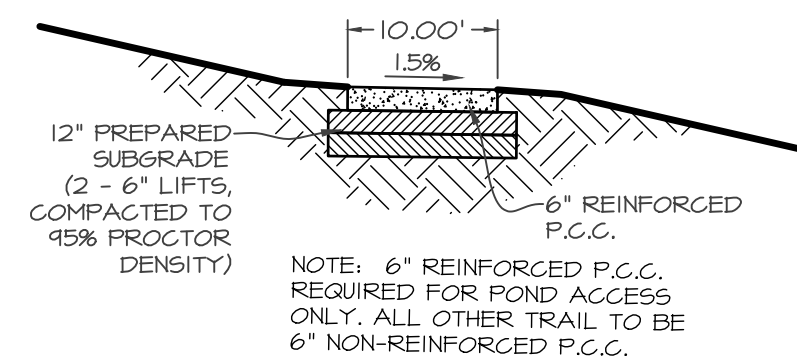
48" x 48" SW-513
OPEN ON ALL SIDES
WEIR ELEVATION = 1031.80
IN SE ELEVATION = 1034.80, *CRITICAL ELEV.*
OUT N ELEVATION = 1034.80, *CRITICAL ELEV.*



**ST 001 DETAIL
(SOUTH SIDE)**

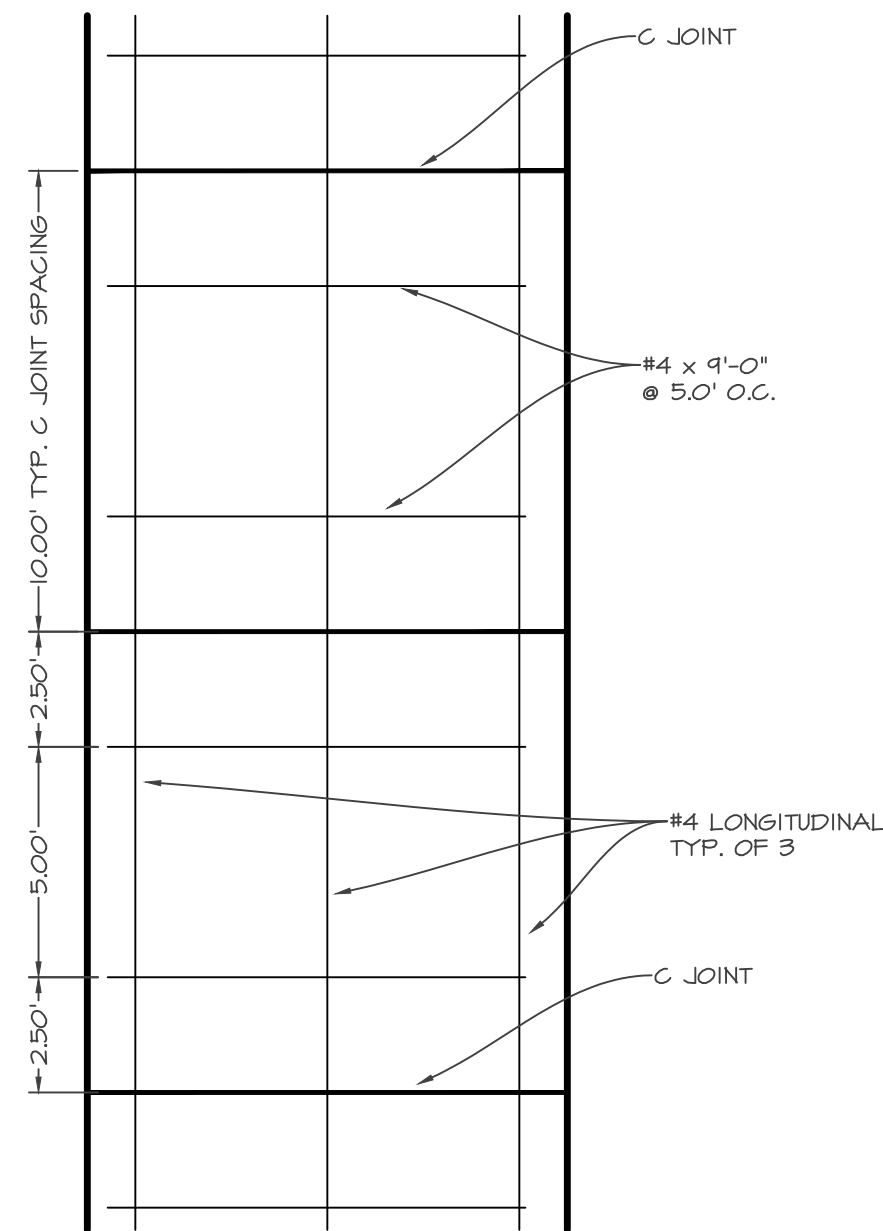
NO SCALE

48" x 48" SW-513
OPEN ON ALL SIDES
WEIR ELEVATION = 1031.80, *CRITICAL ELEV.*
OUT N ELEVATION = 1034.80, *CRITICAL ELEV.*



**10' TRAIL & POND
ACCESS PATH**

NO SCALE



SPHERICAL BOLLARDS (P09/P16 SHOWN)

**DESIGN PRECEDENT 6
SPHERICAL PROTECTIVE BOLLARD**



ASH CONTAINER (P09 SHOWN)

**DESIGN PRECEDENT 1
ASH CONTAINER**



STOP SIGNS (P09 SHOWN)

**DESIGN PRECEDENT 2
STOP SIGN**



TREE GRATES (P09 SHOWN)

**DESIGN PRECEDENT 7
TREE GRATE**



**DESIGN PRECEDENT 8
CART CORRAL**

MODERN



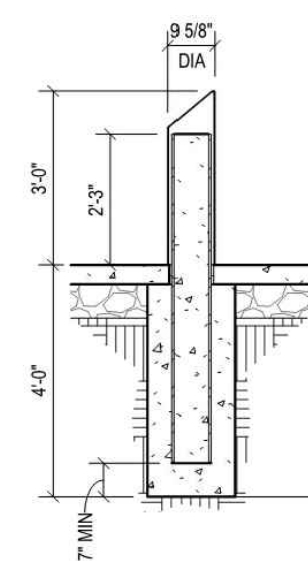
35 STAY BENCH (BEN-2)

**DESIGN PRECEDENT 9
BENCH**



CYLINDRICAL BOLLARDS (P16 SHOWN)

**DESIGN PRECEDENT 5
CYLINDRICAL PROTECTIVE BOLLARD**



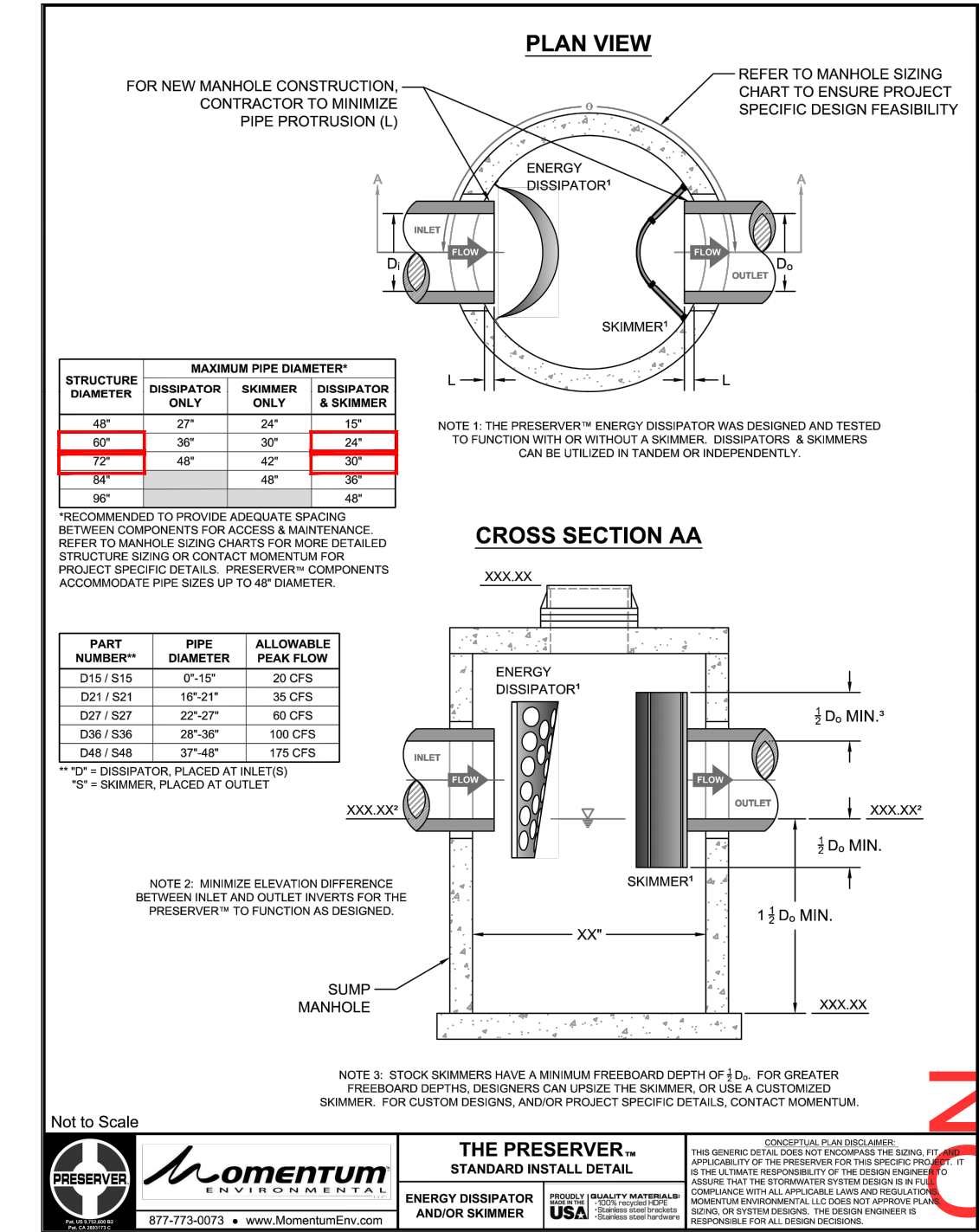
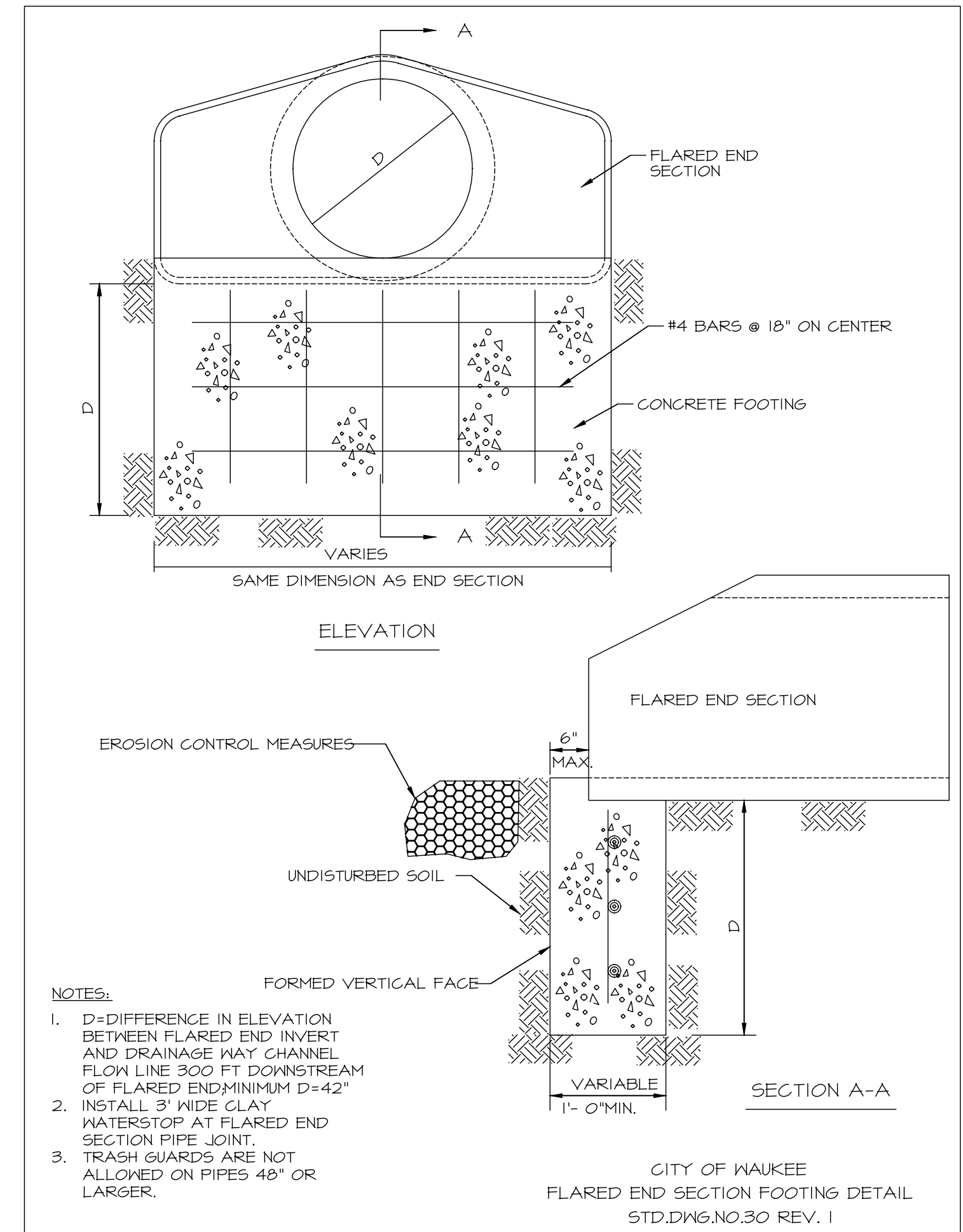
WASTE RECEPTACLE (P16 SHOWN)

**DESIGN PRECEDENT 3
WASTE RECEPTACLE**



BIKE STANDS (P16 SHOWN)

**DESIGN PRECEDENT 4
BIKE RACK**



PRELIMINARY - NOT FOR CONSTRUCTION

CASE 1

Typical Section showing SW-514 Type R Casting, Inlet Elevation, Class 3 RCP Piers, Concrete Filler, Square Edge, and Base.

Outlet Pipe Diameter, D1	Minimum Inlet Diameter, D2
12"	18"
15"	24"
18"	24"
21"	30"
24"	30"
27"	30"

SUDAS HOWADOT SW-512

CIRCULAR AREA INTAKE

Section A-A showing SW-603 Type R Casting, Adjustment Rings, Precast Beam, Concrete Filler, Wall Height, and 8" min. Class I Bedding Material.

PLAN showing Location Station (Back of Curb), Short Wall 2'-0", and Long Wall 6'-8".

SUDAS HOWADOT SW-505

DOUBLE GRATE INTAKE

Typical Section showing SW-602 Casting, Precast Top, Adjustment Rings, Precast Riser Sections, Concrete Filler, Square Edge, and 8" min. Class I Bedding Material.

PLAN showing Location Station, Precast Riser Sections, and Manhole Diameter.

Manhole Diameter (inches)	Maximum Pipe Diameter (inches) for 2' Pipe Separation	Maximum Pipe Diameter (inches) for 3' Pipe Separation
48	24	18
60	30	24
72	42	30
84	48	36
96	60	42

SUDAS HOWADOT SW-401

CIRCULAR STORM SEWER MANHOLE

Section A-A showing SW-602 Type R Casting, Adjustment Ring, Form Grade, Concrete Filler, Diagonal Bar, and 8" min. Class I Bedding Material.

PLAN showing Location Station (Back of Curb), Short Wall 2'-0", and Long Wall 6'-8".

SUDAS HOWADOT SW-504

SINGLE GRATE INTAKE WITH FLUSH-TOP MANHOLE

Section A-A showing SW-602 Type R Casting, Inlet, Concrete Filler, and 8" min. Class I Bedding Material.

PLAN showing Top Elevation, Inlet, Concrete Filler, and 8" min. Class I Bedding Material.

SUDAS HOWADOT SW-513

OPEN-SIDED AREA INTAKE

Typical Section showing SW-603 Type R Castings, Adjustment Rings, Precast Beam, Concrete Filler, Wall Height, and 8" min. Class I Bedding Material.

PLAN showing Location Station (Back of Curb), Short Wall 2'-0", and Long Wall 6'-8".

Mark	Size	Location	Shape	Count	Length	Spacing
401	4	Beam	—	4	2'-0"	4"
401	4	Base	—	4	7'-10"	10"
402	4	Base	—	4	7'-2"	12"
401, 4	4	Walls	20	Varies	Wall Height minus 4"	12"
402, 4	4	Long Walls	Varies	4	7'-4"	12"
403, 4	4	Short Walls	Varies	2	2'-0"	12"

SUDAS HOWADOT SW-505

DOUBLE GRATE INTAKE

Section A-A showing Form Grade, Casting, Wall, Diagonal Bar, Concrete Filler, Wall Height, and 8" min. Class I Bedding Material.

PLAN showing Location Station (Back of Curb), Short Wall 2'-0", and Long Wall 6'-8".

Mark	Size	Location	Shape	Count	Length	Spacing
401, 4	4	Walls	—	Varies	Wall Height minus 4"	12"
402, 4	4	Long Walls	—	4	7'-2"	12"
403, 4	4	Short Walls	—	2	2'-0"	12"
401, 4	4	Base	—	4	4'-2"	10"
402, 4	4	Base	—	4	7'-4"	12"
403, 4	4	Base	—	2	2'-0"	12"

SUDAS HOWADOT SW-501

SINGLE GRATE INTAKE

Section A-A showing SW-602 Type R Casting, Adjustment Ring, Form Grade, Concrete Filler, Diagonal Bar, and 8" min. Class I Bedding Material.

PLAN showing Location Station (Back of Curb), Short Wall 2'-0", and Long Wall 6'-8".

Mark	Size	Location	Shape	Count	Length	Spacing
401	4	Top	—	1	1'-1"	3'-0"
402	4	Top	—	8	3'-0"	6"
401	4	Base	—	8	4'-2"	10"
402	4	Base	—	5	8'-2"	10"
401	4	Adj. Ring	—	6	3'-0"	See Adj. Ring Plan
402	4	Adj. Ring	—	4	3'-2"	See Adj. Ring Plan
401	4	Walls	10	Varies	Wall Height minus 4"	12"
402	4	Walls	11	Varies	Wall Height minus 16"	12"
403	4	Long Walls	Varies	7	7'-0"	12"
404	4	Short Walls	Varies	2	2'-0"	12"

SUDAS HOWADOT SW-504

SINGLE GRATE INTAKE WITH FLUSH-TOP MANHOLE

Typical Section showing Driveway, Curb, Sidewalk, and 8" min. Class I Bedding Material.

DETAIL A showing Drop Curb Height, Residential 7" or Commercial/Industrial 1 1/2" to 2".

SUDAS Standard Specifications 7030.101

CONCRETE DRIVEWAY, TYPE A

Section A-A showing SW-602 Type E Casting, SW-603 Type R Casting, Adjustment Rings, Precast Top, Concrete Filler, Wall Height, and 8" min. Class I Bedding Material.

PLAN showing Location Station (Back of Curb), Short Wall 2'-0", and Long Wall 6'-8".

Wall	Max. Dia.
1	30"
2	24"
3	30"
4	42"

SUDAS HOWADOT SW-506

DOUBLE GRATE INTAKE WITH MANHOLE

Typical Section showing SW-602 Type E Casting, SW-603 Type R Casting, Adjustment Rings, Precast Top, Concrete Filler, Wall Height, and 8" min. Class I Bedding Material.

PLAN showing Location Station (Back of Curb), Short Wall 2'-0", and Long Wall 6'-8".

Mark	Size	Location	Shape	Count	Length	Spacing
401, 4	4	Walls	—	Varies	Wall Height minus 4"	12"
402, 4	4	Long Walls	—	3	3'-8"	12"
403, 4	4	Short Walls	—	2	2'-0"	12"
401, 4	4	Base	—	4	4'-2"	10"
402, 4	4	Base	—	4	7'-4"	12"
403, 4	4	Base	—	2	2'-0"	12"

SUDAS HOWADOT SW-503

SINGLE GRATE INTAKE WITH MANHOLE

Types A, B, and C Cleanout details showing 4" x 4" Band, Subdrain, and 45° Bend.

SUDAS Standard Specifications 4040.232

SUBDRAIN CLEANOUTS

Typical Section showing Existing Sidewalk, Match existing sidewalk cross slope, Curb Ramp, Turning Space, Detectable Warning, and Grass.

PLAN showing Parking, Grade Break, and 5'-0" min. width.

SUDAS Standard Specifications 7030.204

GENERAL FEATURES OF AN ACCESSIBLE SIDEWALK

Section A-A showing SW-602 Type E Casting, SW-603 Type R Casting, Adjustment Rings, Precast Top, Concrete Filler, Wall Height, and 8" min. Class I Bedding Material.

Section B-B showing SW-602 Type E Casting, SW-603 Type R Casting, Adjustment Rings, Precast Top, Concrete Filler, Wall Height, and 8" min. Class I Bedding Material.

Mark	Size	Location	Shape	Count	Length	Spacing
401	4	Top	—	4	7'-4"	See Detail
402	4	Top	—	4	6'-4"	See Detail
403	4	Top	—	4	3'-0"	See Detail
401	4	Base	—	8	3'-0"	12"
402	4	Base	—	4	4'-2"	12"
401	4	Walls	28	Varies	Wall Height minus 4"	12"
402	4	Walls 1 and 3	Varies	3	3'-0"	12"
403	4	Walls 4 and 5	Varies	6	6'-8"	12"
404	4	Walls 6	Varies	4	4'-2"	12"
405	4	Walls 7	Varies	2	2'-0"	12"
406	4	Walls 8	Varies	3	3'-10"	12"

SUDAS HOWADOT SW-506

DOUBLE GRATE INTAKE WITH MANHOLE

Typical Section showing SW-602 Type E Casting, SW-603 Type R Casting, Adjustment Rings, Precast Top, Concrete Filler, Wall Height, and 8" min. Class I Bedding Material.

PLAN showing Location Station (Back of Curb), Short Wall 2'-0", and Long Wall 6'-8".

Mark	Size	Location	Shape	Count	Length	Spacing
401	4	Top	—	12	3'-8"	12"
402	4	Top	—	8	4'-2"	12"
401	4	Base	—	7	4'-2"	12"
402	4	Base	—	5	7'-2"	10"
401	4	Short Walls	—	3	3'-0"	12"
402	4	Long Walls	—	Varies	6'-8"	12"
403	4	Walls	18	Varies	Wall Height minus 4"	12"

SUDAS HOWADOT SW-503

SINGLE GRATE INTAKE WITH MANHOLE

Typical Section showing SW-601 Casting, Adjustment Rings, Precast Top, Precast Riser Sections, Concrete Filler, Precast Base with Integral Riser Section, and 8" min. Class I Bedding Material.

PLAN showing Location Station, Precast Riser Sections, and Manhole Diameter.

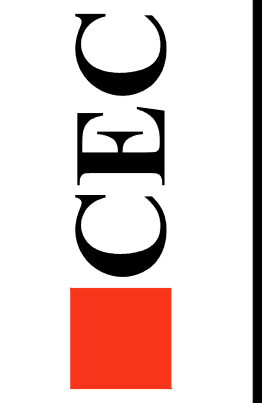
Manhole Diameter (inches)	Maximum Pipe Diameter (inches) for 2' Pipe Separation	Maximum Pipe Diameter (inches) for 3' Pipe Separation
48	24	18
60	30	24
72	42	30
84	48	36
96	60	42

SUDAS HOWADOT SW-301

CIRCULAR SANITARY SEWER MANHOLE

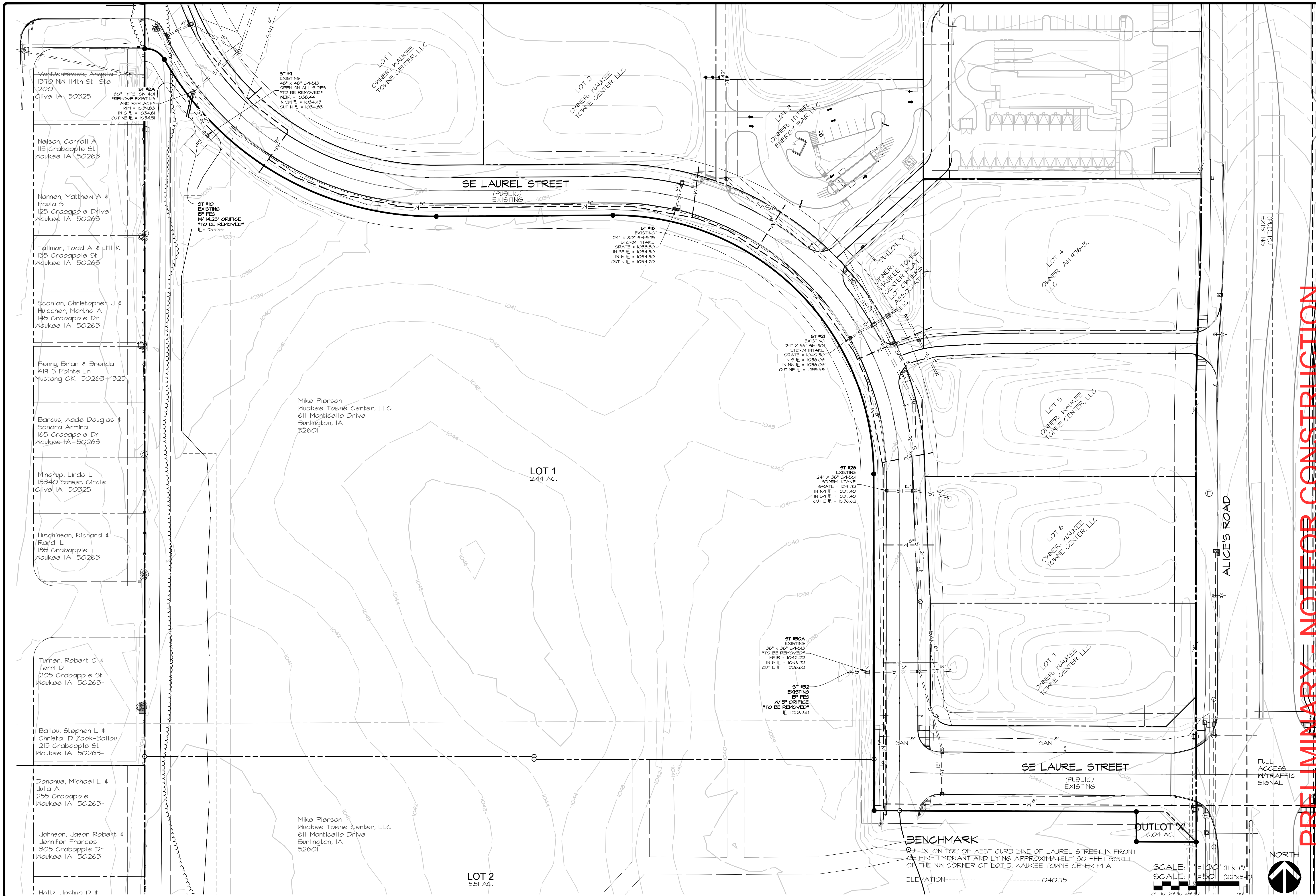
PRELIMINARY - NOT FOR CONSTRUCTION

Civil Engineering Consultants, Inc. 2400 86th Street Unit 12 Des Moines, Iowa 50322 515.276.4884 mail@cecinc.com



DATE: 2022-10-25 - 4TH SUBMITTAL 2022-09-22 - 3RD SUBMITTAL 2022-08-24 - 2ND SUBMITTAL 2022-07-26 - 1ST SUBMITTAL DATE OF SURVEY: 2018-09-20 DESIGNED BY: EHA DRAWN BY: NMI

LOT 1, WAUKEE TOWNE CENTER PLAT 2 WAUKEE, IOWA SUDAS DETAILS SHEET 3 OF 27 A-2157

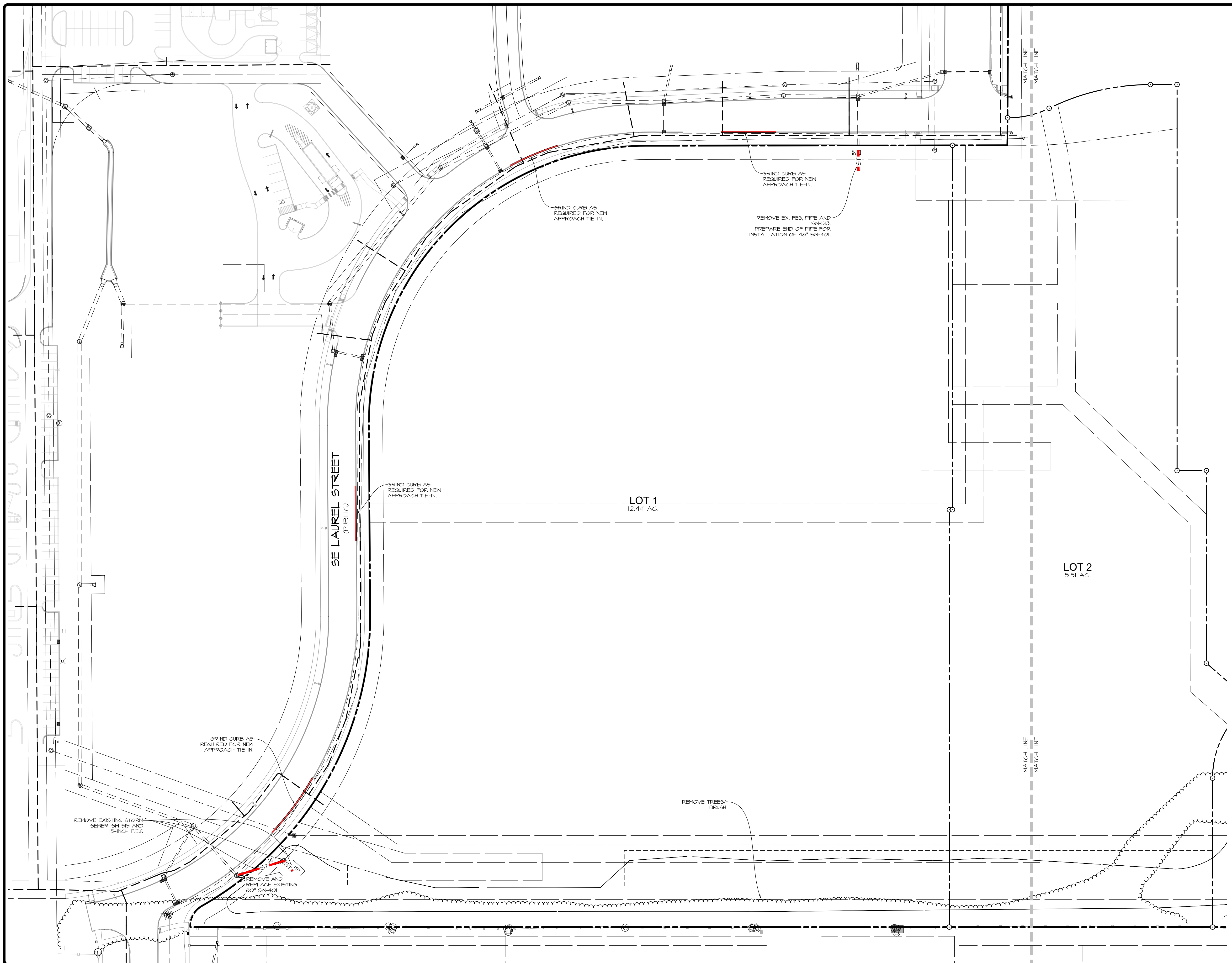


PRELIMINARY - NOT FOR CONSTRUCTION

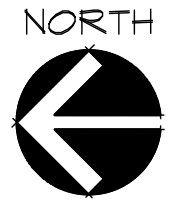
CEC		Civil Engineering Consultants, Inc. 2400 86th Street Unit 12 Des Moines, Iowa 50322 515.276.8884 mail@cecinc.com	
LOT 1, WAUKEE TOWNE CENTER PLAT 2		TOPOGRAPHIC SURVEY	
WAUKEE, IOWA		SHEET 4 OF 27	
DATE: 2022-04-22 - 3RD SUBMITTAL 2022-10-25 - 4TH SUBMITTAL 2022-08-24 - 2ND SUBMITTAL 2022-07-26 - 1ST SUBMITTAL		DATE OF SURVEY: 2019-09-20 DESIGNED BY: EHA DRAWN BY: NMI	
BENCHMARK OUT 'X' ON TOP OF WEST CURB LINE OF LAUREL STREET IN FRONT OF FIRE HYDRANT AND LYING APPROXIMATELY 30 FEET SOUTH OF THE NW CORNER OF LOT 5, WAUKEE TOWNE CENTER PLAT 1. ELEVATION: 1040.75		SCALE: 1" = 100' (11"x17") SCALE: 1" = 50' (22"x34")	



Q:\A-FILES\A-2100\A2157_C3D Drawings\Construction Documents\Site Plan\A2157 (02A) DEMOLITION PLAN.dwg, 10/25/2022 3:37:11 PM, smckinley, 1:1



SCALE: 1"=100' (11"x17")
 SCALE: 1"=50' (22"x34")

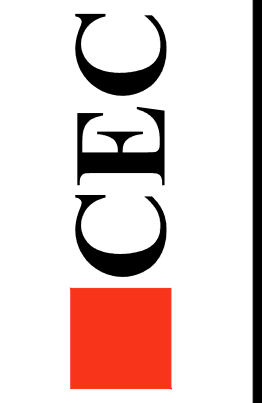


PRELIMINARY - NOT FOR CONSTRUCTION

LOT 1, WAUKEE TOWNE CENTER PLAT 2
 WAUKEE, IOWA
 NORTH DEMOLITION PLAN

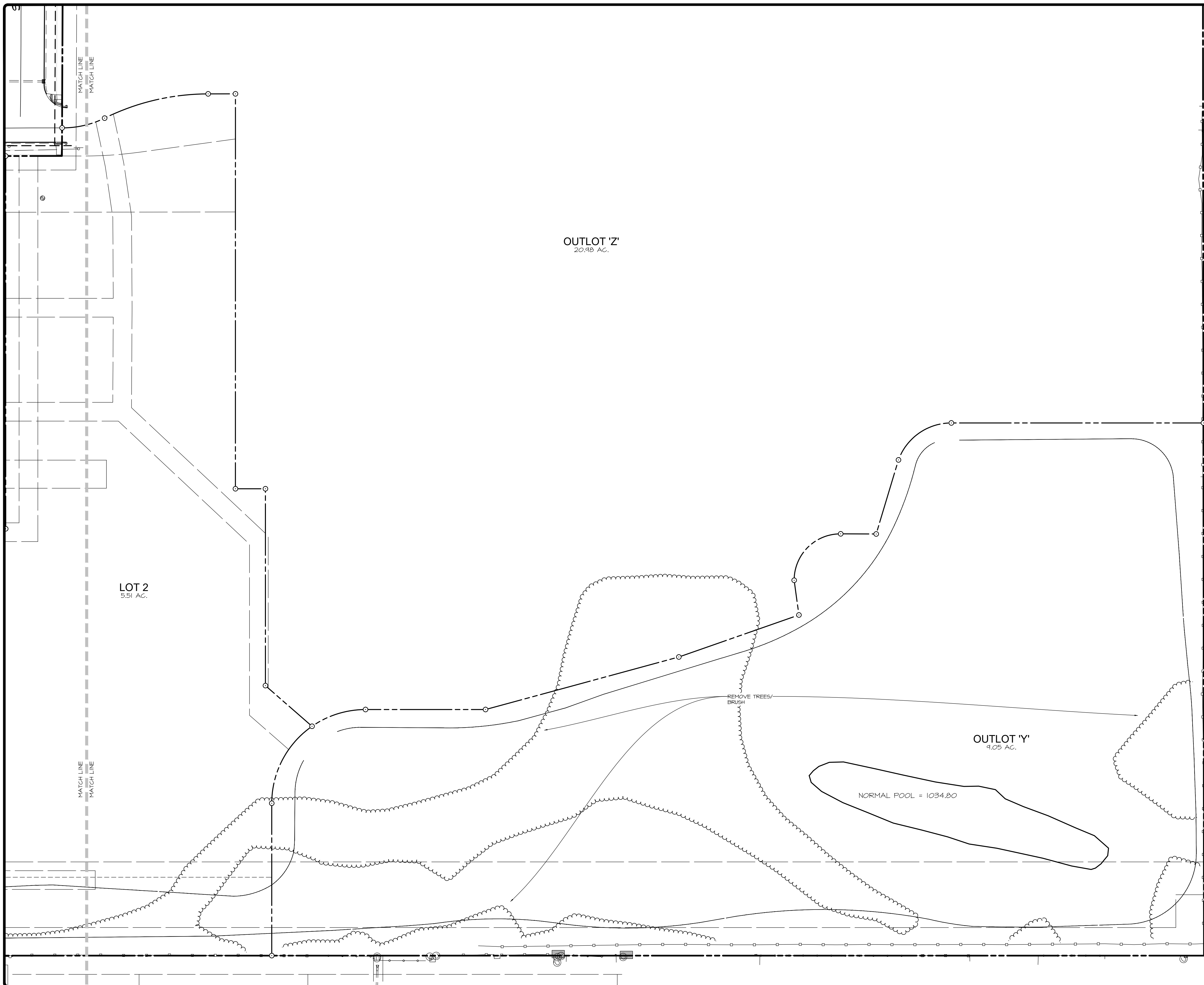
SHEET
 OF 27
 A-2157

DATE:	2022-10-25 - 4TH SUBMITTAL	MM
	2022-04-22 - 3RD SUBMITTAL	
	2022-09-24 - 2ND SUBMITTAL	
	2022-07-26 - 1ST SUBMITTAL	
DATE OF SURVEY:	2019-09-20	EHA
DESIGNED BY:		
DRAWN BY:		

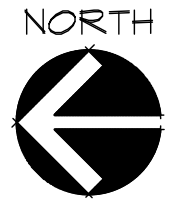


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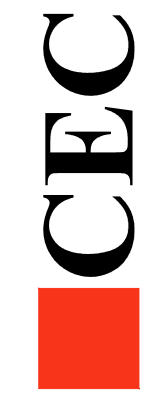
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SCALE: 1"=50' (22"x34")



PRELIMINARY - NOT FOR CONSTRUCTION

LOT 1, WAUKEE TOWNE CENTER PLAT 2
WAUKEE, IOWA
SOUTH DEMOLITION PLAN

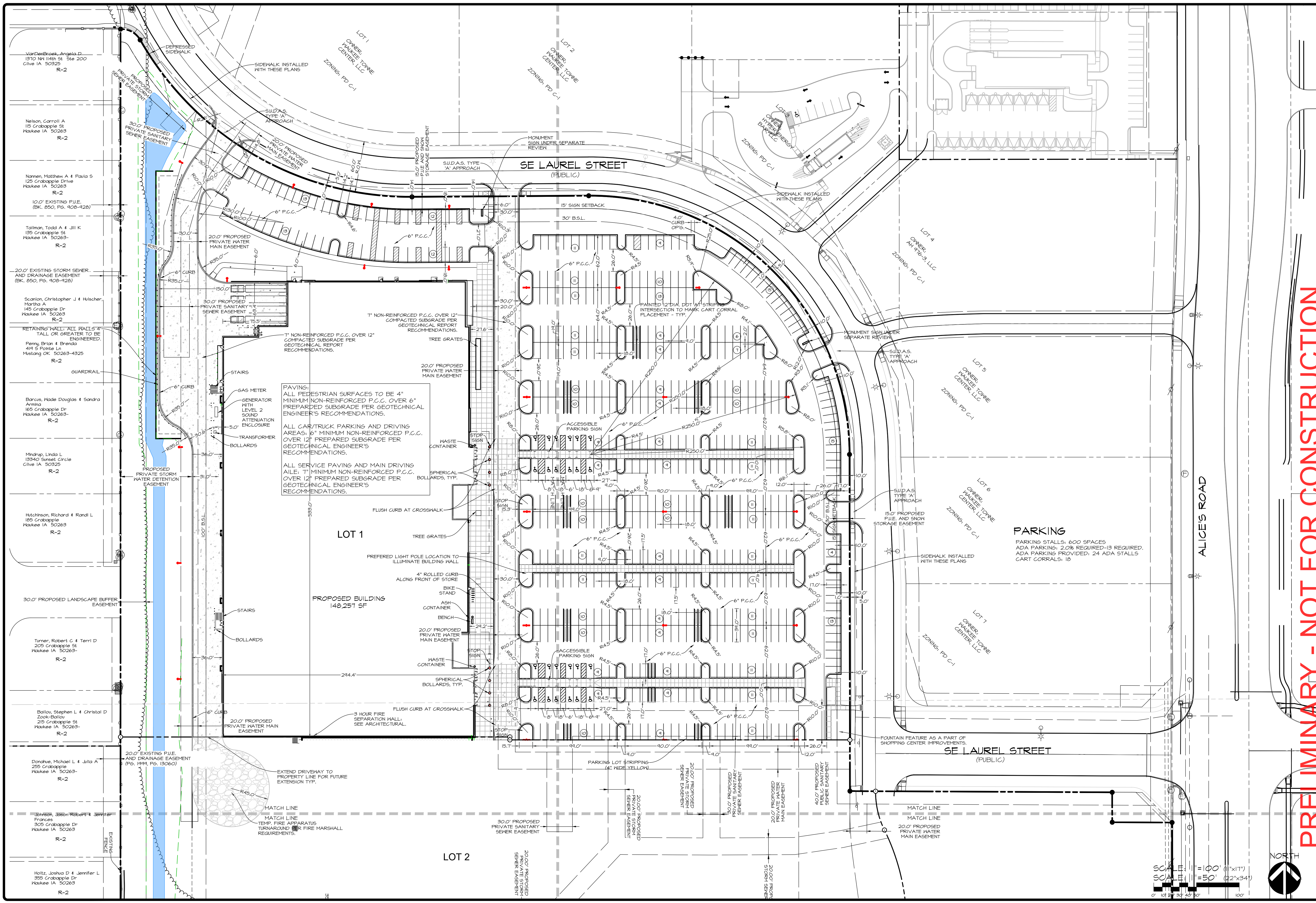
SHEET
OF 27
A-2157



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DATE:	2022-10-25 - 4TH SUBMITTAL	EHA	MM
	2022-04-22 - 3RD SUBMITTAL		
	2022-08-24 - 2ND SUBMITTAL		
	2022-07-26 - 1ST SUBMITTAL		
DATE OF SURVEY:	2019-09-20		
DESIGNED BY:			
DRAWN BY:			

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PAVING:
 ALL PEDESTRIAN SURFACES TO BE 4" MINIMUM NON-REINFORCED P.C.C. OVER 6" COMPACTED SUBGRADE PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
 ALL CAR/TRUCK PARKING AND DRIVING AREAS: 6" MINIMUM NON-REINFORCED P.C.C. OVER 12" PREPARED SUBGRADE PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
 ALL SERVICE PAVING AND MAIN DRIVING AILE: 7" MINIMUM NON-REINFORCED P.C.C. OVER 12" PREPARED SUBGRADE PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.

PARKING
 PARKING STALLS: 600 SPACES
 ADA PARKING: 2.0% REQUIRED-13 REQUIRED.
 ADA PARKING PROVIDED: 24 ADA STALLS
 CART CORRALS: 18

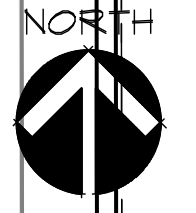
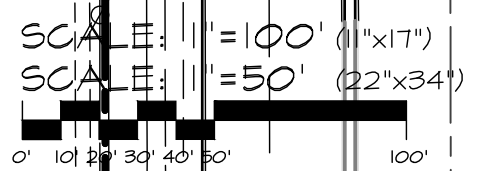
PRELIMINARY - NOT FOR CONSTRUCTION

LOT 1, WAUKEE TOWNE CENTER PLAT 2
 WAUKEE, IOWA
 NORTH DIMENSION PLAN

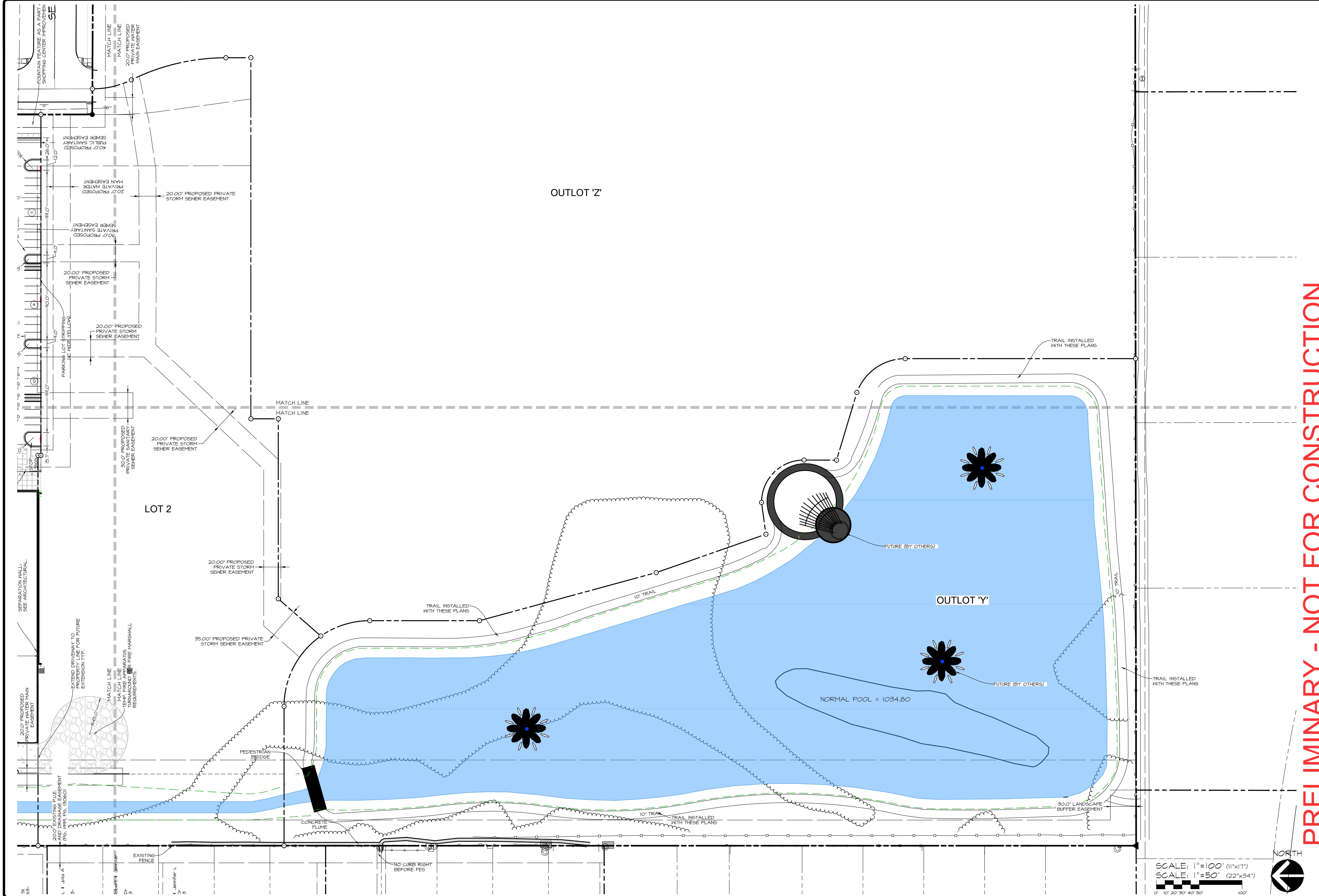
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 515.276.4884 mail@cecinc.com

DATE:	2022-04-22 - 4TH SUBMITTAL	DATE:	2022-04-22 - 4TH SUBMITTAL
DATE:	2022-04-22 - 3RD SUBMITTAL	DATE:	2022-04-22 - 3RD SUBMITTAL
DATE:	2022-08-24 - 2ND SUBMITTAL	DATE:	2022-08-24 - 2ND SUBMITTAL
DATE:	2022-07-26 - 1ST SUBMITTAL	DATE:	2019-09-20
DESIGNED BY:	EHA	DRAWN BY:	MM

SHEET
 OF 27
 A-2157




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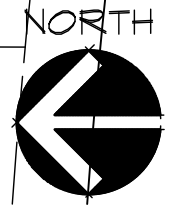


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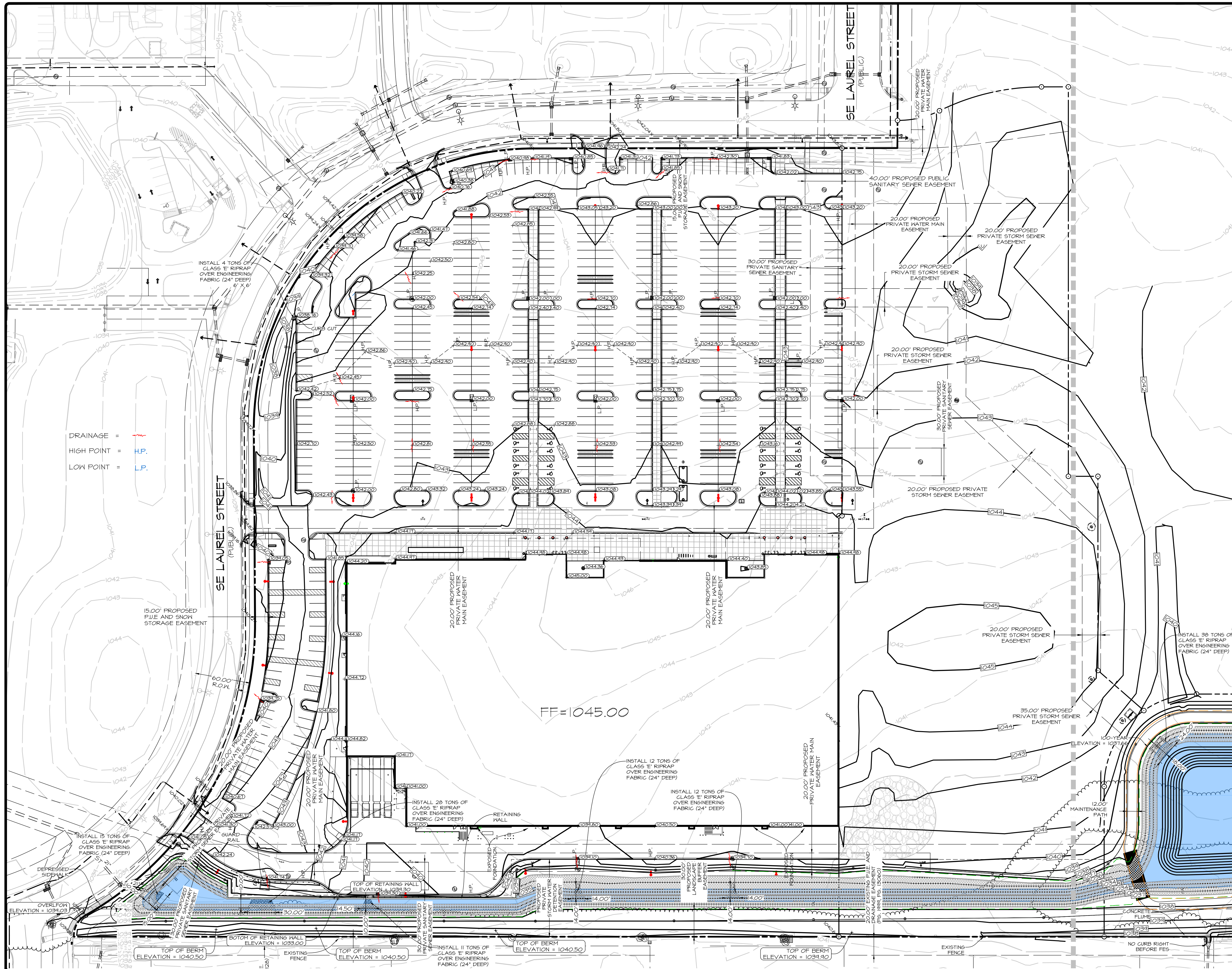
LOT 1, WAUKEE TOWNE CENTER PLAT 2
WAUKEE, IOWA
SOUTH DIMENSION PLAN


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DATE:	2022-04-22 - 3RD SUBMITTAL	
DATE:	2022-08-24 - 2ND SUBMITTAL	
DATE OF SURVEY:	2019-09-20	DESIGNED BY: EHA
DATE OF SURVEY:	2019-09-20	DRAWN BY: NMI

SCALE: 1"=100' (11"x17")
SCALE: 1"=50' (22"x34")

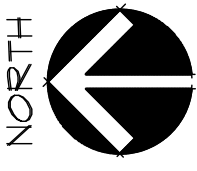


SHEET
OF 27
A-2157




DRAINAGE = 
 HIGH POINT = H.P.
 LOW POINT = L.P.

SCALE: 1"=100' (11"x17")
 SCALE: 1"=50' (22"x34")
 0' 10' 20' 30' 40' 50' 100'



PRELIMINARY - NOT FOR CONSTRUCTION

LOT 1, WAUKEE TOWNE CENTER PLAT 2
 WAUKEE, IOWA
GRADING & DRAINAGE PLAN NORTH

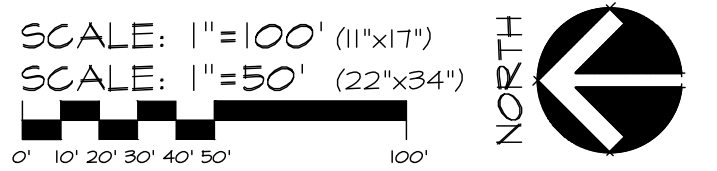
SHEET

 OF 27
 A-2157

DATE:	2022-10-25 - 4TH SUBMITTAL	EHA	NMI
	2022-04-22 - 3RD SUBMITTAL		
	2022-08-24 - 2ND SUBMITTAL		
	2022-07-26 - 1ST SUBMITTAL		
DATE OF SURVEY:	2019-09-20		
DESIGNED BY:			
DRAWN BY:			



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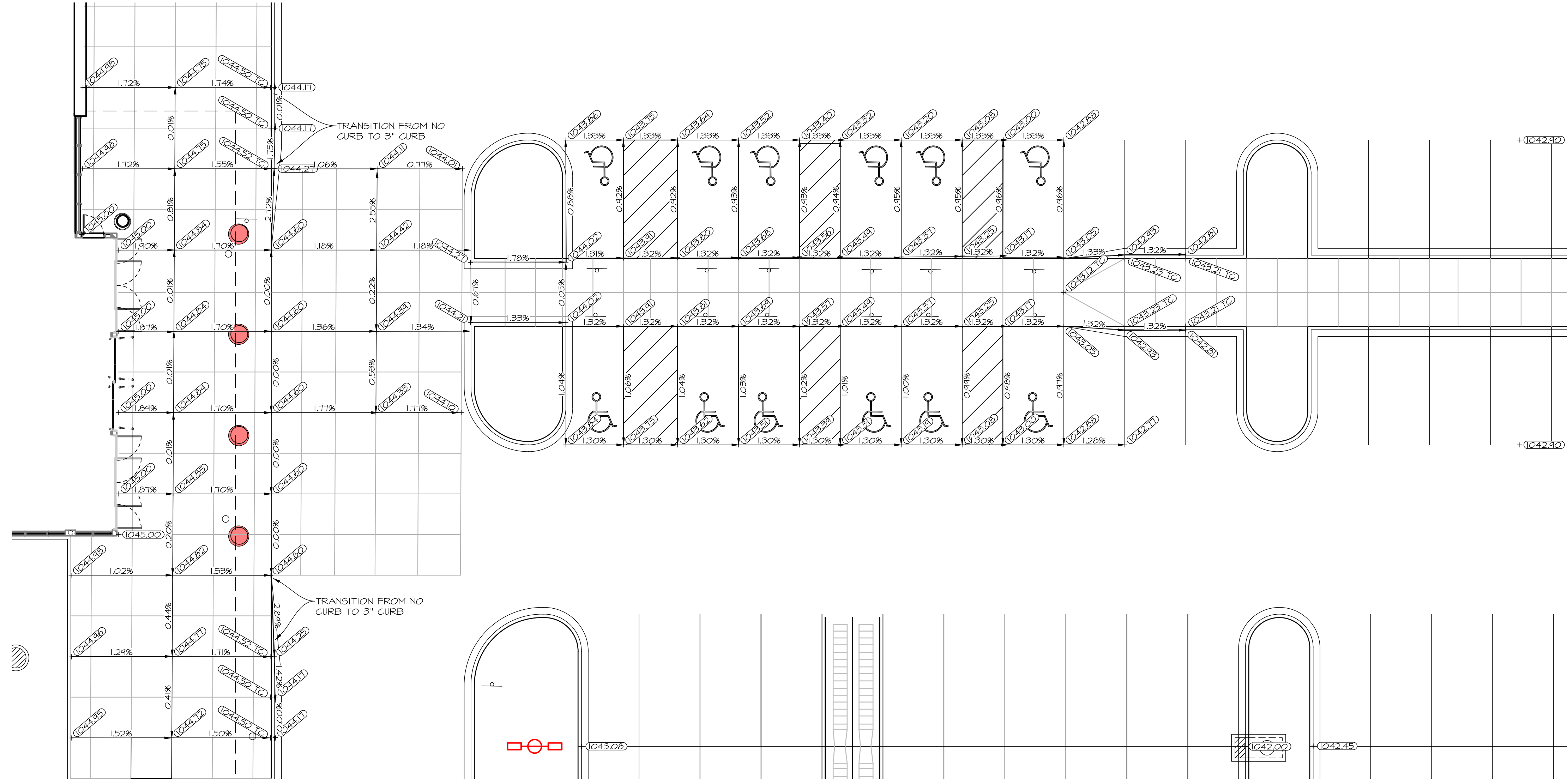


PRELIMINARY - NOT FOR CONSTRUCTION

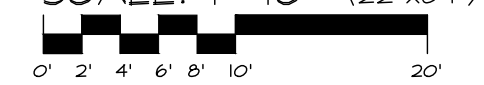
LOT 1, WAUKEE TOWNE CENTER PLAT 2
 WAUKEE, IOWA
 GRADING & DRAINAGE PLAN SOUTH

SHEET
 OF 27
 A-2157

DATE:	2022-10-25 - 4TH SUBMITTAL	 Civil Engineering Consultants, Inc. 2400 86th Street, Unit 12 · Des Moines, Iowa 50322 515.276-8884 · mail@cecinc.com
DATE:	2022-09-22 - 3RD SUBMITTAL	
DATE:	2022-08-24 - 2ND SUBMITTAL	
DATE OF SURVEY:	2019-09-20	DESIGNED BY: EHA
DESIGNED BY:		DRAWN BY: NMI



SCALE: 1"=20' (11"x17")
 SCALE: 1"=10' (22"x34")



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LOT 1, WAUKEE TOWNE CENTER PLAT 2

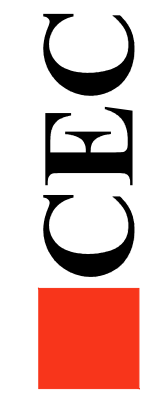
WAUKEE, IOWA

GRADING DETAILS - N ADA STALLS AND ENTRY

DATE:	2022-10-25 - 4TH SUBMITTAL	EHA	NMI
	2022-04-22 - 3RD SUBMITTAL		
	2022-08-24 - 2ND SUBMITTAL		
	2022-07-26 - 1ST SUBMITTAL		
DATE OF SURVEY:	2019-09-20		
DESIGNED BY:			
DRAWN BY:			

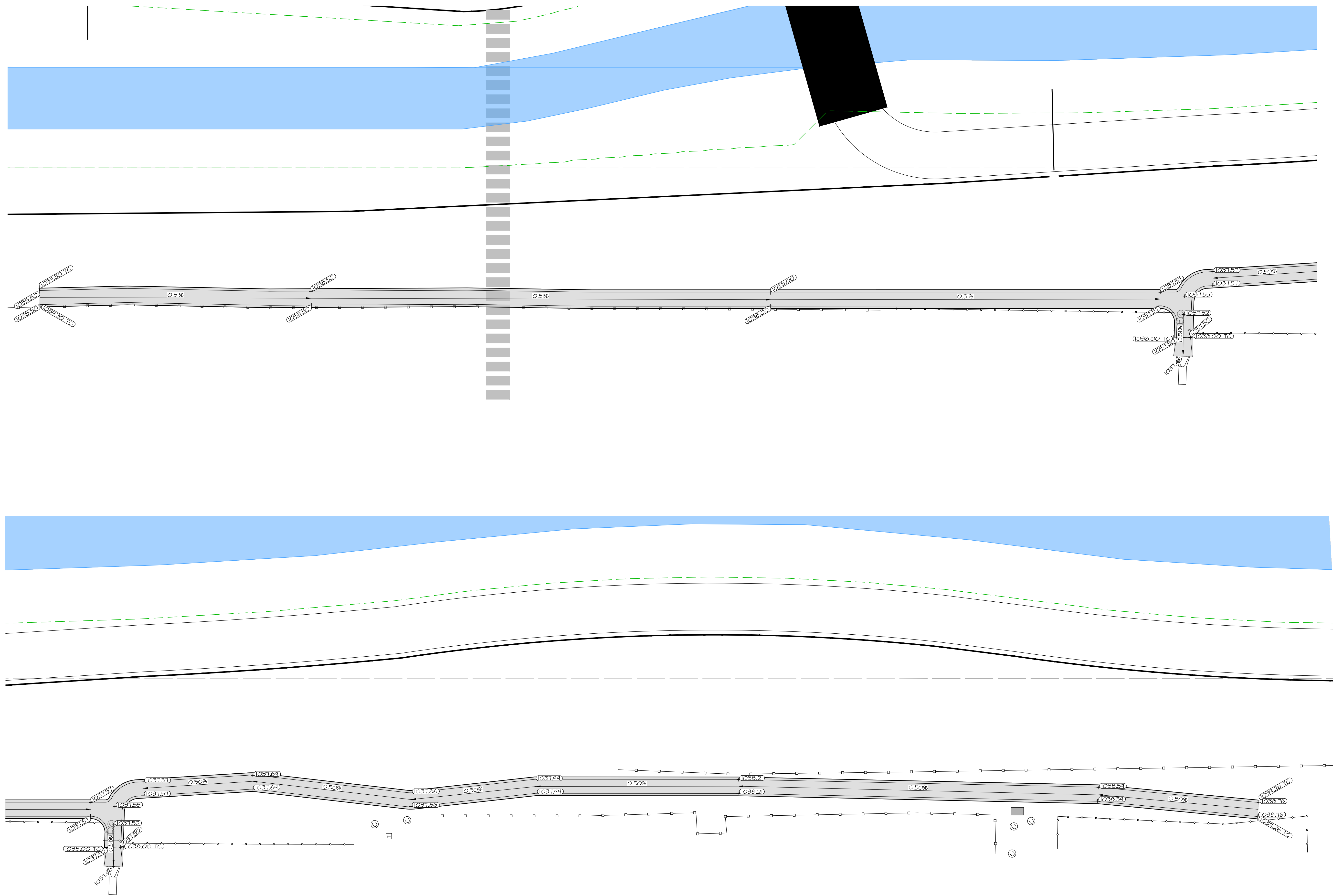
SHEET
 12
 OF
 27

A-2157

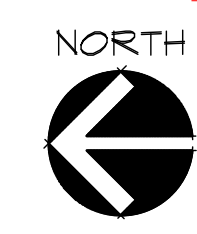


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Q:\A-FILES\A-2100\A2157_C3D Drawings\Construction Documents\Site Plan\A2157 ELEVATION DETAILS.dwg, 10/25/2022 3:41:45 PM, smekinley, 1-1



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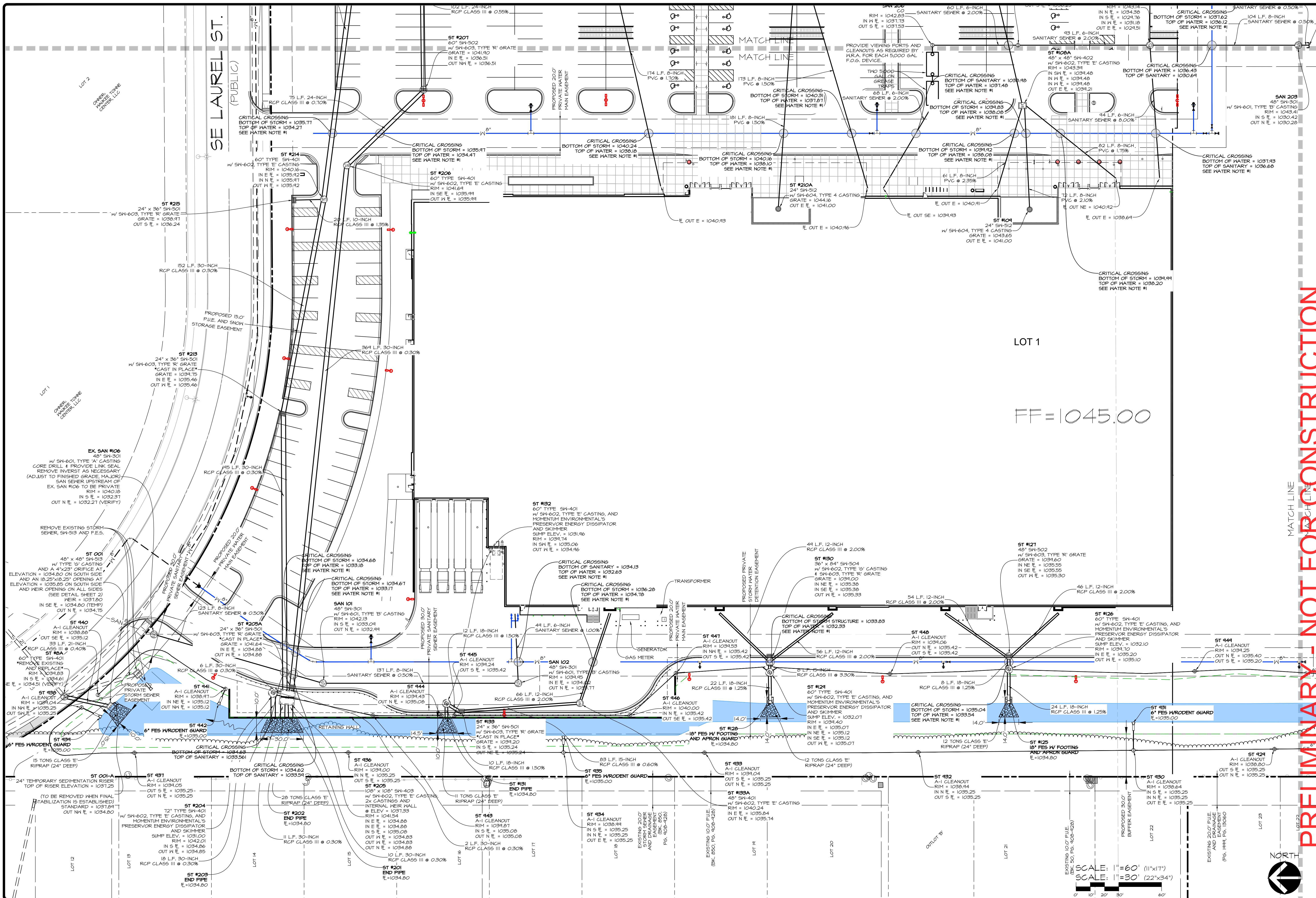
LOT 1, WAUKEE TOWNE CENTER PLAT 2
 WAUKEE, IOWA
GRADING DETAILS - FLUME

SHEET
 OF 27
 A-2157

DATE: 2022-10-25 - 4TH SUBMITTAL
 2022-04-22 - 3RD SUBMITTAL
 2022-08-24 - 2ND SUBMITTAL
 2022-07-26 - 1ST SUBMITTAL
 DATE OF SURVEY: 2019-09-20
 DESIGNED BY: EHA
 DRAWN BY: NMI

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Q:\A-FILES\A-2100\A2157_C3D Drawings\Construction Documents\SitePlan\A2157 (08) UTILITY - SAN & STORM.dwg, 10/25/2025 3:43:04 PM, smekinley, 1:1



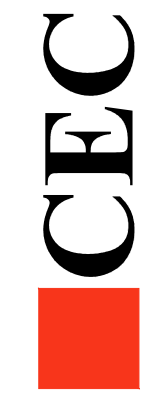
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LOT 1

FF = 1045.00

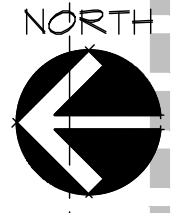
PRELIMINARY - NOT FOR CONSTRUCTION

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DATE: 2022-10-25 - 4TH SUBMITTAL
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 2022-08-24 - 2ND SUBMITTAL
 2022-07-26 - 1ST SUBMITTAL
 DATE OF SURVEY: 2019-09-20
 DESIGNED BY: EHA
 DRAWN BY: NMI

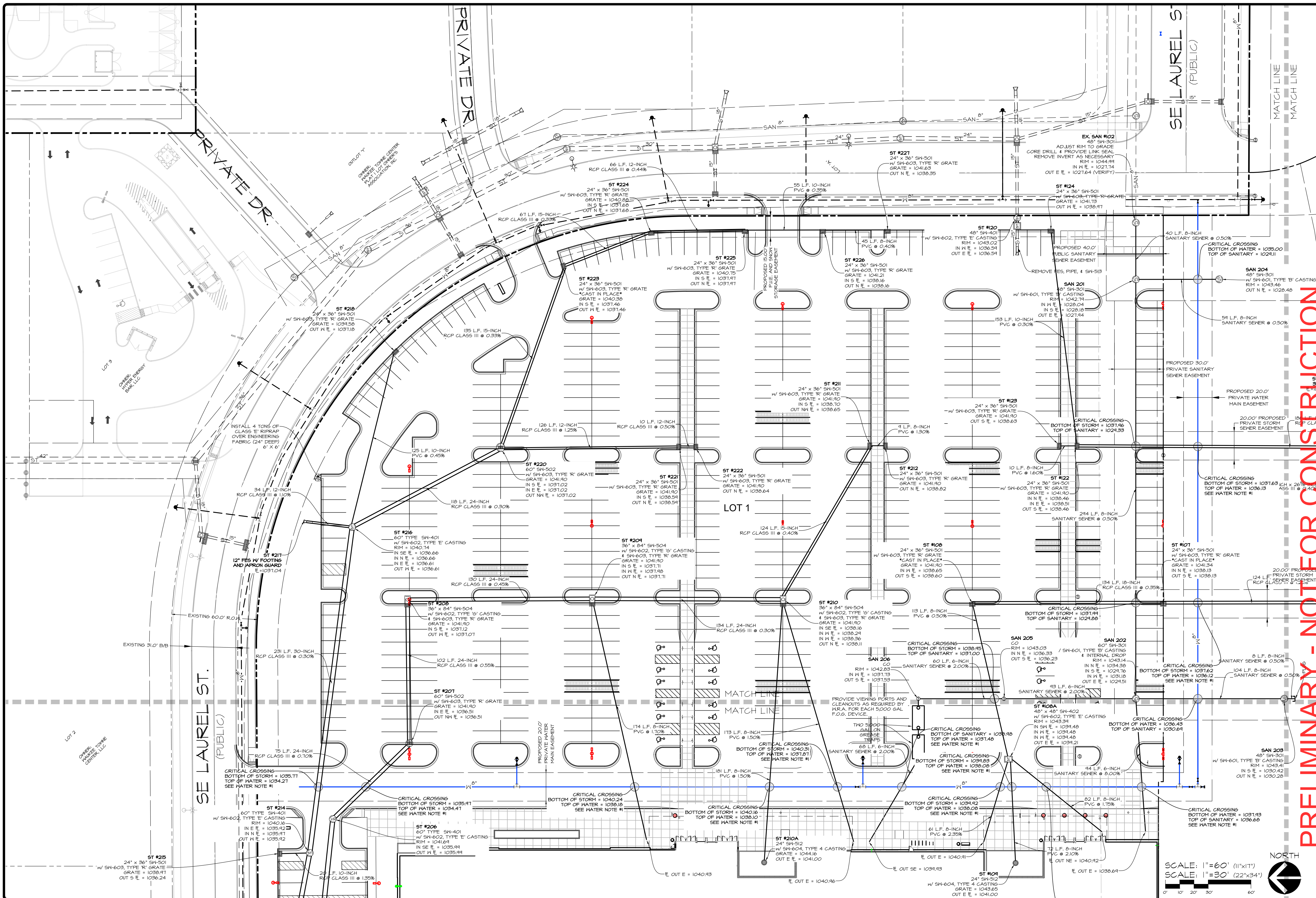
LOT 1, WAUKEE TOWNE CENTER PLAT 2
 WAUKEE, IOWA
 UTILITY PLAN (WEST SAN & STORM)



SCALE: 1" = 60' (11"x17")
 SCALE: 1" = 30' (22"x34")

SHEET 10 OF 27
 A-2157

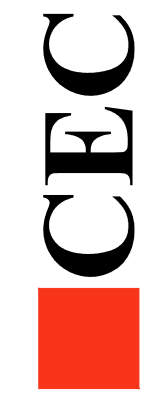
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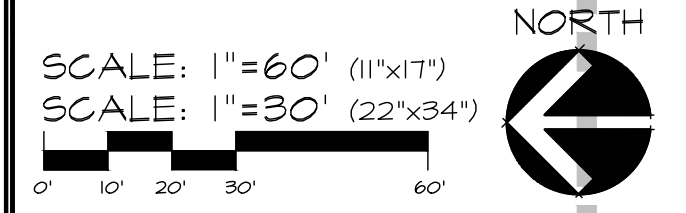
PRELIMINARY - NOT FOR CONSTRUCTION

LOT 1, WAUKEE TOWNE CENTER PLAT 2
WAUKEE, IOWA
UTILITY PLAN (EAST SAN & STORM)

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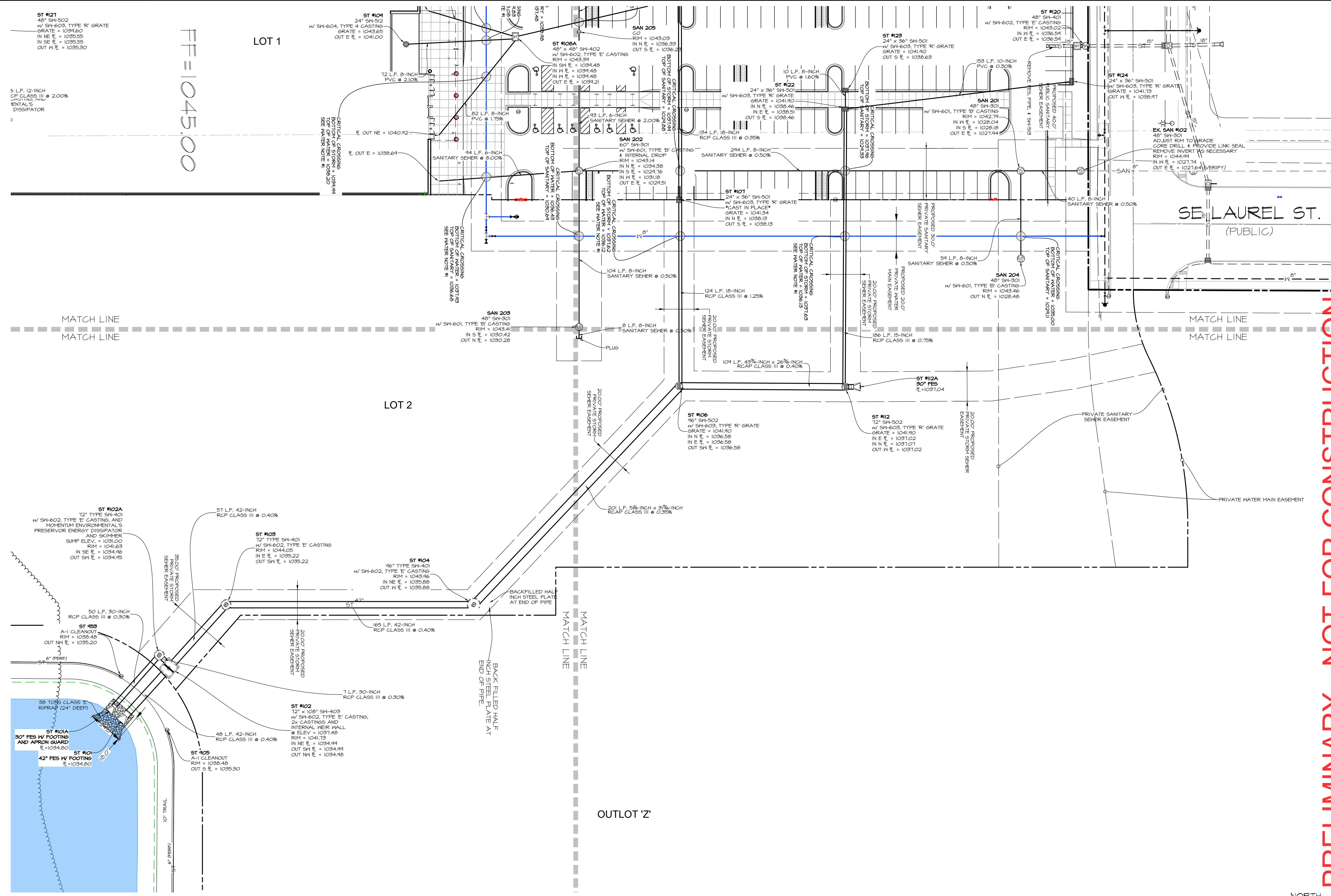


DATE: 2022-10-25 - 4TH SUBMITTAL
2022-09-22 - 3RD SUBMITTAL
2022-08-24 - 2ND SUBMITTAL
2022-07-26 - 1ST SUBMITTAL
DATE OF SURVEY: 2019-09-20
DESIGNED BY: EHA
DRAWN BY: NMI



SHEET
OF 27
A-2157

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FF = 1045.00

LOT 1

LOT 2

OUTLOT 'Z'

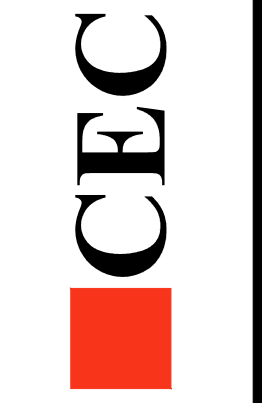
SE LAUREL ST.
(PUBLIC)

MATCH LINE
MATCH LINE

MATCH LINE
MATCH LINE

PRELIMINARY - NOT FOR CONSTRUCTION

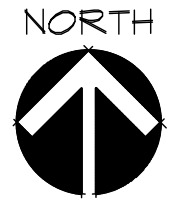
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DATE:	2022-10-25 - 4TH SUBMITTAL	EHA	MM
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	2022-07-26 - 1ST SUBMITTAL		
DATE OF SURVEY:	2019-09-20		
DESIGNED BY:			
DRAWN BY:			

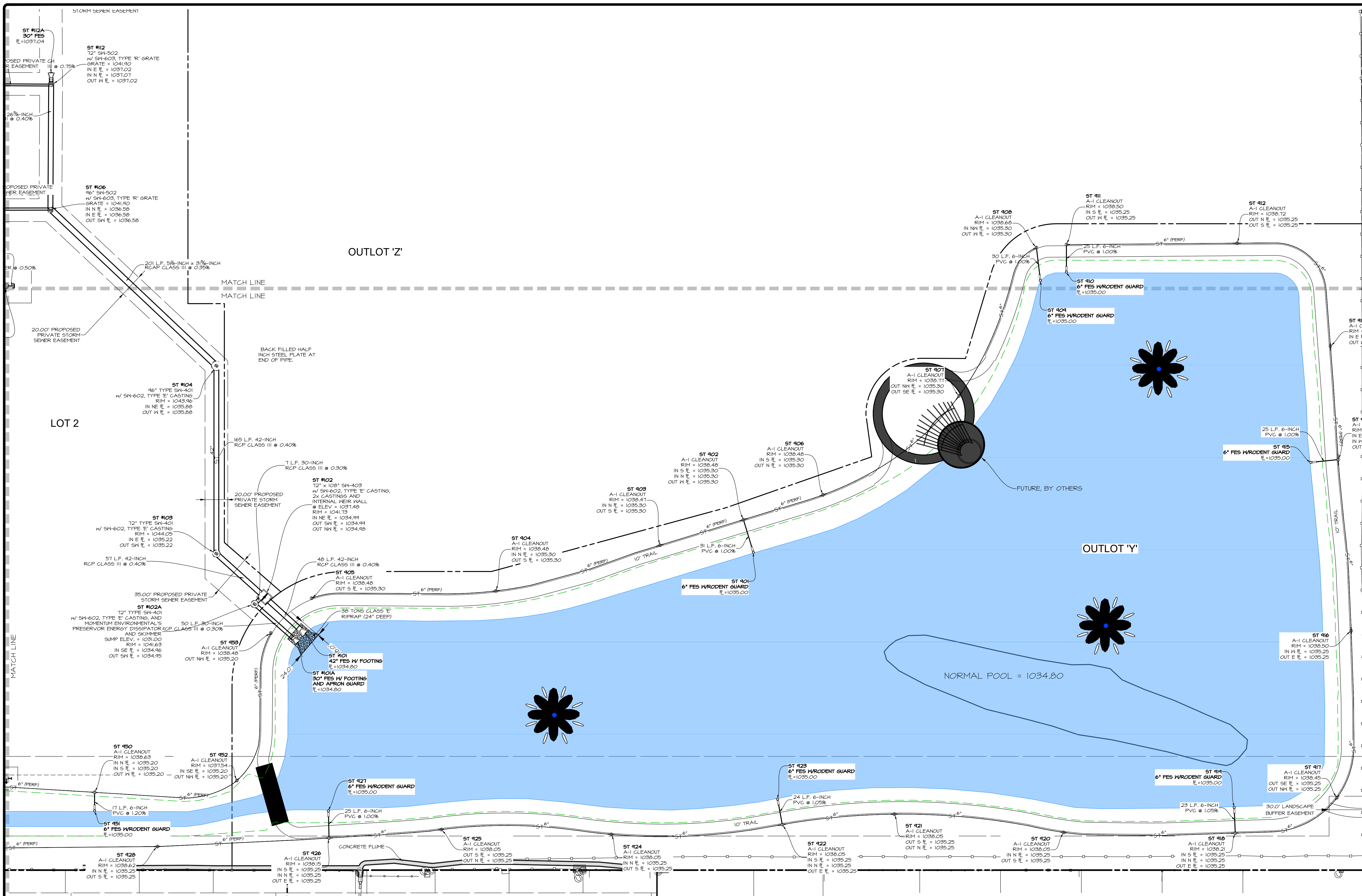
LOT 1, WAUKEE TOWNE CENTER PLAT 2
WAUKEE, IOWA
UTILITY PLAN (CENTRAL SAN & STORM)

SCALE: 1"=60' (11"x17")
SCALE: 1"=30' (22"x34")



SHEET
20
OF
27
A-2157

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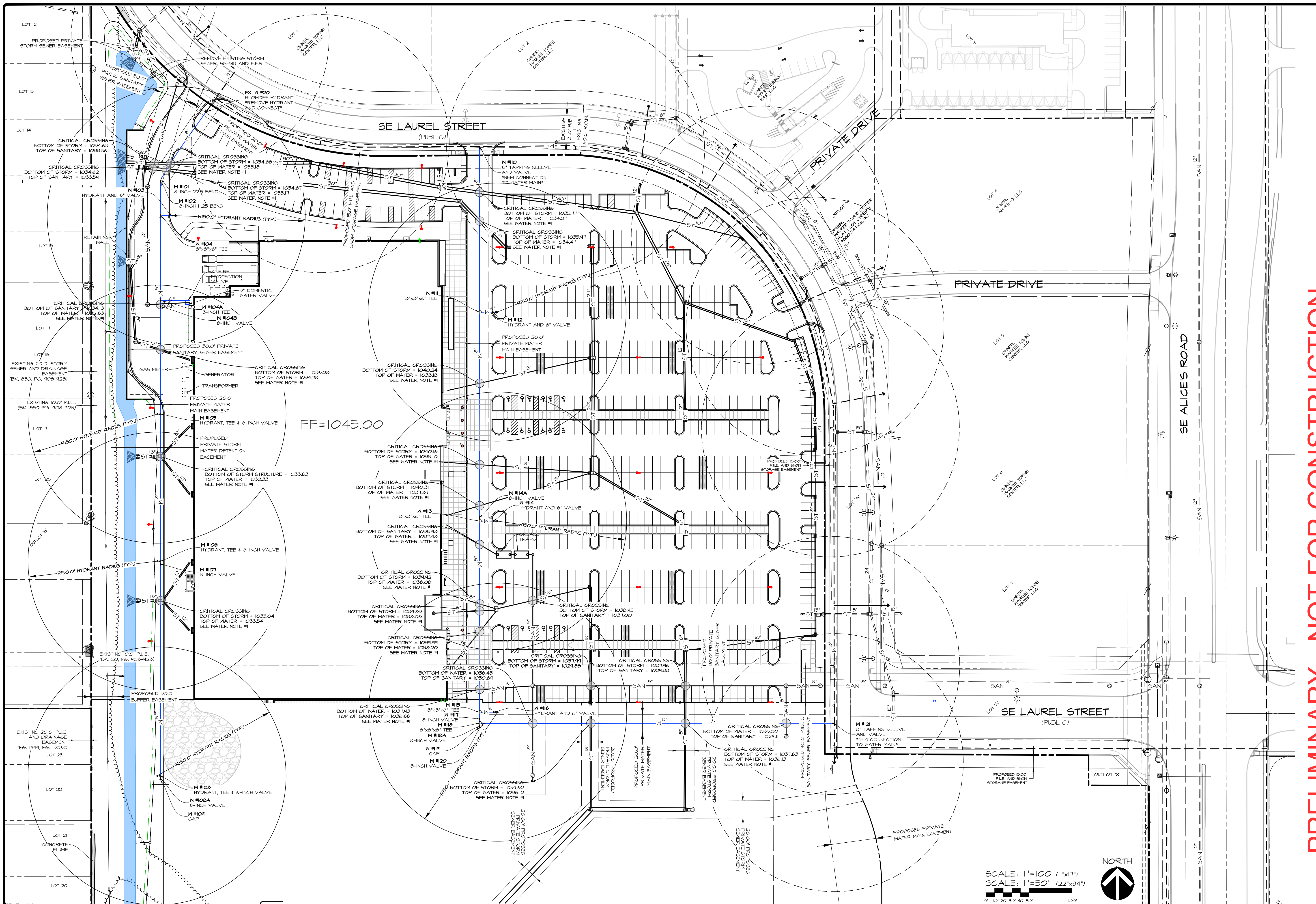
LOT 1, WAUKEE TOWNE CENTER PLAT 2
WAUKEE, IOWA
UTILITY PLAN (SOUTH SAN & STORM)

DATE:	2022-10-25 - 4TH SUBMITTAL	EHA	NMI
DATE:	2022-04-22 - 3RD SUBMITTAL		
DATE:	2022-08-24 - 2ND SUBMITTAL		
DATE:	2022-07-26 - 1ST SUBMITTAL		
DATE OF SURVEY:	2019-09-20		
DESIGNED BY:			
DRAWN BY:			

NORTH

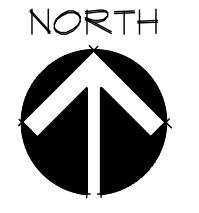
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FF=1045.00

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 SCALE: 1"=50' (22"x34")

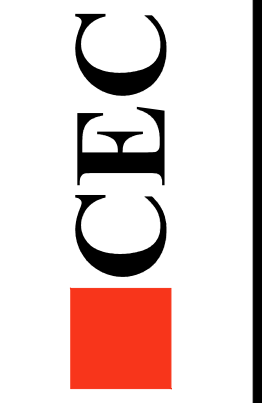


PRELIMINARY - NOT FOR CONSTRUCTION

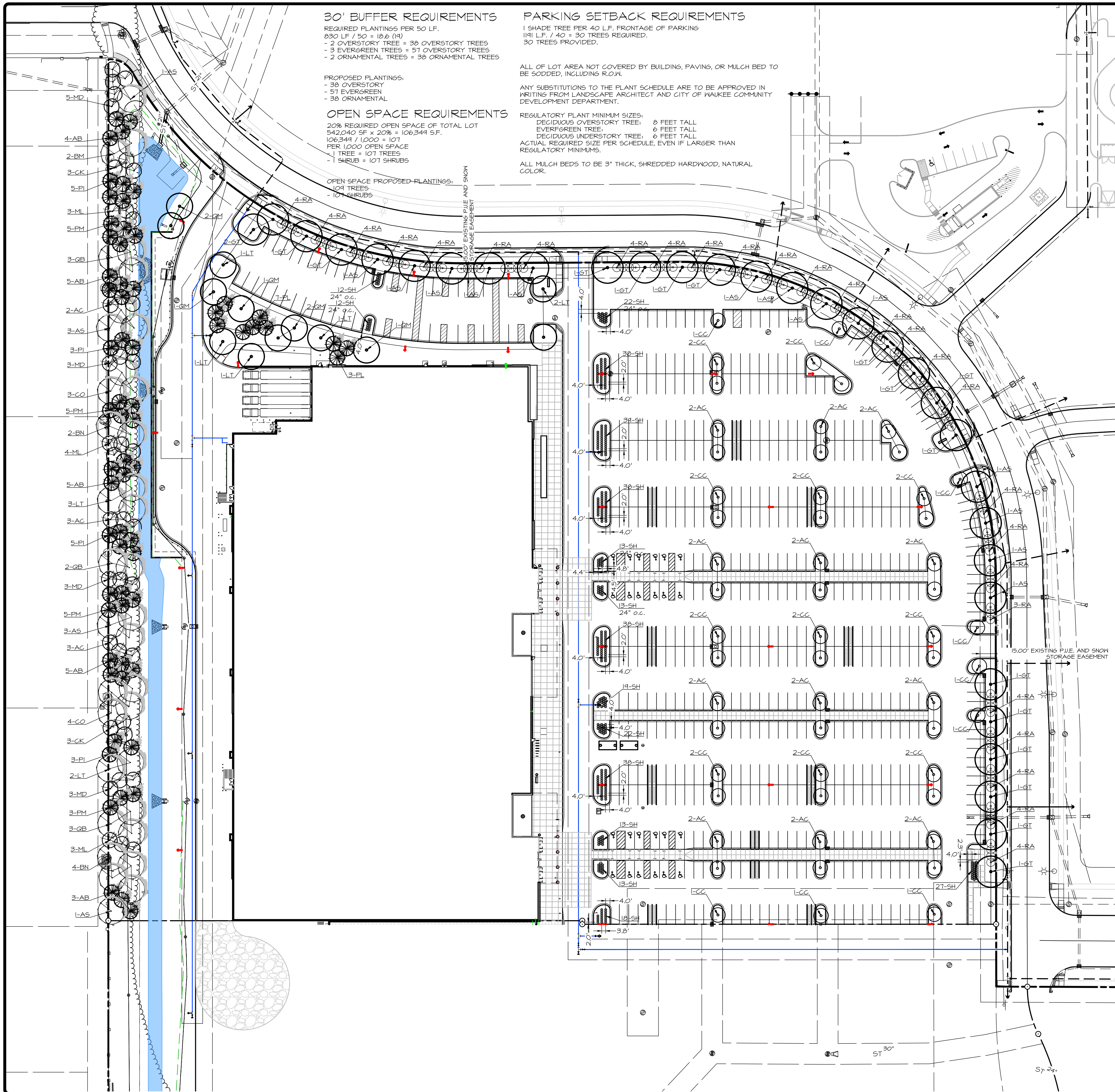
LOT 1, WAUKEE TOWNE CENTER PLAT 2
 WAUKEE, IOWA
UTILITY PLAN (WATER)

SHEET
22
 OF 27
 A-2157

DATE: 2022-10-25 - 4TH SUBMITTAL
 2022-04-22 - 3RD SUBMITTAL
 2022-09-24 - 2ND SUBMITTAL
 2022-07-26 - 1ST SUBMITTAL
 DATE OF SURVEY: 2019-09-20
 DESIGNED BY: EHA
 DRAWN BY: NMI

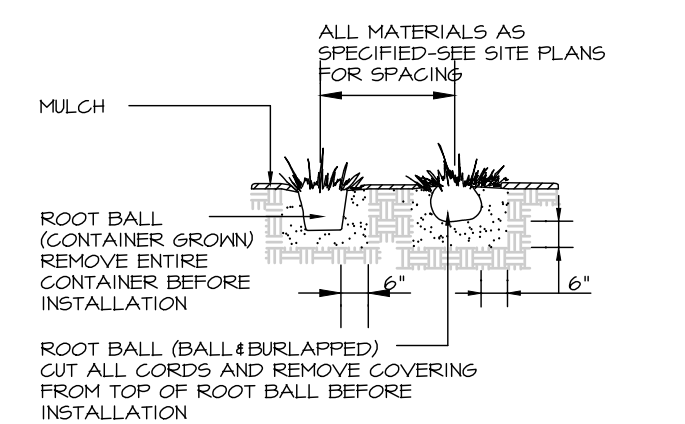
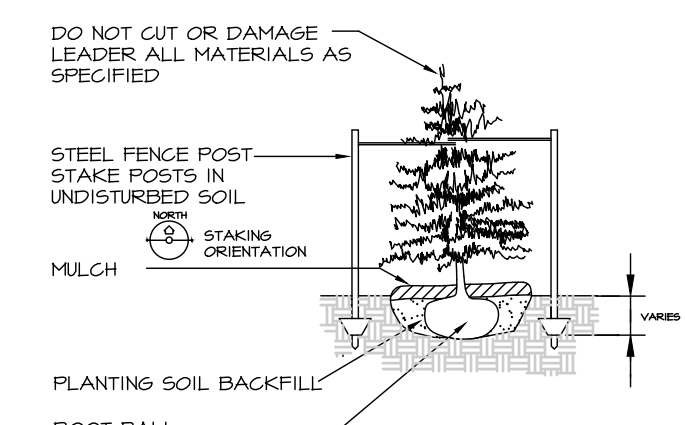
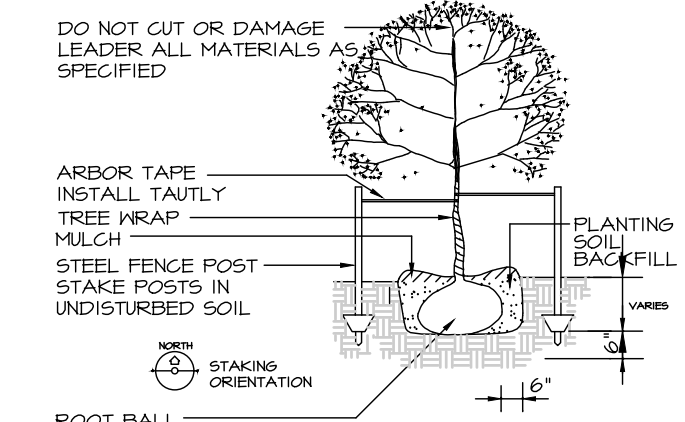


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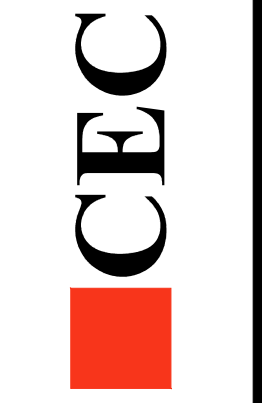
PLANT SCHEDULE

MARK	Botanical name COMMON NAME	QUAN.	SIZE	ROOT TYPE	REMARKS	MATURE HEIGHT
AB	<i>Abies balsamea</i> BALSAM FIR	22	7 HT.	B&B	MATCHED, SPECIMEN	60'
AC	<i>Amelanchier arborea</i> SERVICEBERRY	32	1.5" CAL.	CONT.	MATCHED, SPECIMEN	20'
AS	<i>Acer saccharum subsp. nigrum</i> 'Green Column' GREEN COLUMN MAPLE	21	2" CAL.	B&B	MATCHED, SPECIMEN	50'
BN	<i>Betula nigra</i> RIVER BIRCH	8	2" CAL.	B&B	MATCHED, SPECIMEN	70'
CC	<i>Cercis canadensis</i> EASTERN REDBUD	31	1.5" CAL.	CONT.	MATCHED, SPECIMEN	20'
CK	<i>Cladostis kentuckea</i> YELLOWWOOD	8	2" CAL.	B&B	MATCHED, SPECIMEN	50'
CD	<i>Celtis occidentalis</i> COMMON HACKBERRY	7	2" CAL.	B&B	MATCHED, SPECIMEN	50'
GT	<i>Gleditsia triacanthos f. inermis</i> 'Skytale' SKYLINE HONEYLOCUST	18	2" CAL.	B&B	MATCHED, SPECIMEN	40'
LT	<i>Liriodendron tulipifera</i> 'FS-O2' EMERALD CITY TULIP TREE	11	2" CAL.	B&B	MATCHED, SPECIMEN	55'
MD	<i>Malus 'Donald Wyman'</i> DONALD WYMAN CRABAPPLE	14	1.5" CAL.	CONT.	MATCHED, SPECIMEN	20'
ML	<i>Malus 'Louisa'</i> LOUISA CRABAPPLE	10	1.5" CAL.	CONT.	MATCHED, SPECIMEN	15'
PI	<i>Picea pungens</i> COLORADO SPRUCE	16	7 HT.	B&B	MATCHED, SPECIMEN	60'
PL	<i>Pinus flexilis</i> 'Vanderwolf's Pyramid' VANDERWOLF'S PYRAMID LIMBER PINE	10	7 HT.	B&B	MATCHED, SPECIMEN	30'
PM	<i>Pseudotsuga menziesii glauca</i> DOUGLAS FIR	18	7 HT.	B&B	MATCHED, SPECIMEN	50'
QB	<i>Quercus macrocarpa</i> 'FS-KW3' SWAMP WHITE OAK	8	2" CAL.	B&B	MATCHED, SPECIMEN	50'
QM	<i>Quercus macrocarpa</i> 'FS-KW3' URBAN PINNACLE OAK	7	2" CAL.	B&B	MATCHED, SPECIMEN	55'
RA	<i>Rhus aromatica</i> FRAGRANT SUMAC	107	3 GAL.	CONT.	MATCHED, SPECIMEN, MULCH BED	6'
SH	<i>Sporobolus heterolepis</i> PRAIRIE DROPSIDE	375	1 GAL.	CONT.	MATCHED, SPECIMEN, MULCH BED	3'



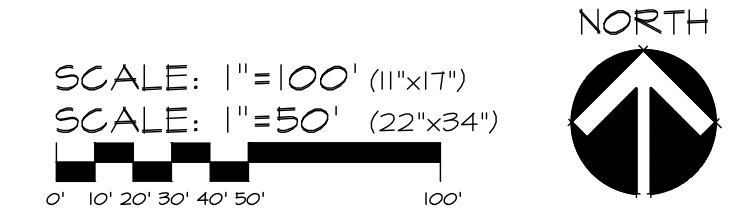
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LOT 1, WAUKEE TOWNE CENTER PLAT 2
 WAUKEE, IOWA
LANDSCAPE PLAN



STORM WATER POLLUTION PREVENTION PLAN

I. SITE DESCRIPTION/APPLICANT/SCHEDULE

- OWNER/APPLICANT: WAUKEE TOWNE CENTER, LLC
611 MONTICELLO DR, BURLINGTON, IA 52601
CONTACT: MIKE PIERSON, PHONE: (319) 512-0125
- LOCATION: LOT 8, WAUKEE TOWNE CENTER PLAT 2, AN OFFICIAL PLAT, CITY OF WAUKEE, DALLAS COUNTY, IOWA.
- NATURE OF CONSTRUCTION ACTIVITY: GRADING AND CONSTRUCTION FOR COMMERCIAL DEVELOPMENT
- AREAS: TOTAL SITE AREA = 41.94 ACRES
SITE AREA AFFECTED = 33.8 ACRES
- RUNOFF COEFFICIENT = 0.85 (RATIONAL METHOD)
- APPROXIMATE SLOPES ANTICIPATED: 3:1 OR FLATTER
- 100 YEAR RUNOFF: APPROX. 113 CFS
- RUNOFF FROM THIS PROJECT WILL FLOW INTO STORM SEWER TO LITTLE WALNUT CREEK TO WALNUT CREEK AND TO RAGCOON RIVER
- SOILS:
 - CANISTED CLAY LOAM, BEMIS MORAINÉ WITH SLOPES BETWEEN 0% TO 2%
 - NICOLLET LOAM WITH SLOPES BETWEEN 1% TO 3%
 - CLARION LOAM, BEMIS MORAINÉ WITH SLOPES BETWEEN 2% TO 6%
- ESTIMATED DATE WORK IS TO COMMENCE: OCTOBER 2022
- ESTIMATED DATE WORK IS TO BE COMPLETED: DECEMBER 2023

2. CONTROLS (ALL SEDIMENT AND EROSION CONTROLS TO BE INSTALLED, MAINTAINED AND REPLACED PER SUDAS SECTION 9040)

- EROSION AND SEDIMENT CONTROLS
- STABILIZATION PRACTICES
- EXISTING VEGETATION IS PRESERVED WHERE ATTAINABLE AND STABILIZE DISTURBED AREAS.
- PERMANENT SEEDING AND/OR SODDING AFTER CONSTRUCTION.
- VEGETATIVE BUFFER STRIPS THROUGHOUT PROJECT.
- PROTECTION OF TREES AND PRESERVATION OF MATURE VEGETATION WHEREVER POSSIBLE.
- STRUCTURAL PRACTICES
- SILT FENCES - TEMPORARY DEVICE TO REMOVE SEDIMENT FROM RUNOFF
- TEMPORARY SEDIMENTATION BASIN - TEMPORARY STRUCTURE TO DETAIN RUNOFF AND ALLOW SEDIMENTATION TO SETTLE OUT
- RIP RAP - PLACED AT OUTLET OF STORM SEWER TO PREVENT DOWNSTREAM EROSION
- DRAINAGE SWALES - STABILIZES SURFACE FROM EROSION WHILE CARRYING SURFACE RUNOFF
- INLET PROTECTION - FILTERS SEDIMENT FROM RUNOFF PRIOR TO ENTERING STORM SEWER SYSTEM
- STORM WATER MANAGEMENT
- FLOW ATTENUATION BY USE OF OPEN VEGETATED SWALES AND NATURAL DEPRESSIONS.
- INFILTRATION OF RUNOFF ON SITE
- VELOCITY DISSIPATION DEVICES AT DISCHARGE LOCATIONS TO PROVIDE NON-EROSIVE VELOCITY FLOWS.
- WASTE DISPOSAL
- ALL MATERIAL WASTES MUST BE REMOVED FROM SITE.
- OFF-SITE VEHICLE TRACKING OF SEDIMENTS SHALL BE MINIMIZED.
- STABILIZE ENTRANCE WITH 6-INCHES OF LIMESTONE IN ORDER TO PREVENT MUD FROM TRACKING OUT ONTO ROADWAY
- TOTAL COMPLIANCE WITH APPLICABLE STATE/LOCAL WASTE DISPOSAL REGULATIONS.
- CONTROLS MUST BE IN GOOD OPERATING CONDITION UNTIL CONSTRUCTION ACTIVITY IS COMPLETE AND FINAL STABILIZATION HAS BEEN REACHED.

3. CONTRACTORS GENERAL CONTRACTOR SHALL HAVE PRIMARY RESPONSIBILITY OF IMPLEMENTING MEASURES CONTAINED IN PLAN. ALL CONTRACTORS AND SUBCONTRACTORS SHALL SIGN A CERTIFICATION STATEMENT BEFORE CONDUCTING ANY PROFESSIONAL SERVICE AT SITE RELATING TO NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT. SEE CERTIFICATION THIS SHEET. PERSONS ACCOMPLISHING WORK UNDER THIS PERMIT:

NAME: _____
ADDRESS: _____

PHONE: _____

NAME: _____
ADDRESS: _____

PHONE: _____

NAME: _____
ADDRESS: _____

PHONE: _____

NAME: _____
ADDRESS: _____

PHONE: _____

4. IMPLEMENTATION / MAINTENANCE

- MAINTAIN EFFECTIVE OPERATING CONDITIONS OF ALL PROTECTIVE MEASURES IDENTIFIED IN PLAN.
- CURB CUT SHALL BE ONE OF THE FIRST ITEMS OF CONSTRUCTION IN ORDER TO ACCESS SITE. "JUMPING THE CURB" IS NOT ALLOWED.
- PRIOR TO INITIAL GRADING, INSTALL PERIMETER SILT FENCE TO PROTECT UNDISTURBED AREAS.
- DO NOT DISTURB AN AREA UNTIL IT IS NECESSARY FOR CONSTRUCTION TO PROCEED.
- AFTER INITIAL GRADING PRIOR TO UTILITY CONSTRUCTION, ALL DISTURBED AREAS OUTSIDE PROPOSED RIGHT-OF-WAYS ARE TO HAVE TEMPORARY SEEDING AND MULCHING. CONTRACTORS AND SUBS ARE TO MINIMIZE DISTURBANCE TO THESE SEEDING AREAS THROUGH USE OF SPECIFIC ACCESS ROUTES WITHIN SITE.
- INSTALL ADDITIONAL CONTROLS AS CONSTRUCTION COMMENCES. PROVIDE SILT FENCE, INTAKE BASKETS, ETC. AS SOON AS POSSIBLE DURING CONSTRUCTION.
- TEMPORARY EARTH PILES SHALL HAVE DOWNSLOPE SILT FENCE PROTECTION.
- ALL INTAKES AND MANHOLES TO HAVE SILT FENCE AROUND THEM PRIOR TO PAVING AND INLET FILTERS AFTER PAVING. INLET FILTERS SHALL REMAIN IN PLACE UNTIL SITE HAS PERENNIAL GROUND COVER.
- ALL INTAKES SHALL BE COVERED DURING CONSTRUCTION TO PREVENT SEDIMENTATION DEPOSITS WITHIN STORM SEWER. INTAKE BASKETS SHALL BE PLACED IN STRUCTURE ONCE CASTINGS ARE IN PLACE.
- ANY SOIL OR SPILL WASHED, TRACKED OR DROPPED ON TO ADJOINING RIGHT-OF-WAYS AND PROPERTY SHALL BE CLEANED UP BY CONTRACTOR IMMEDIATELY. EARTH RAMPS SHALL NOT BE CONSTRUCTED IN STREET GUTTER.
- MATERIAL OR EQUIPMENT STORAGE AREAS MUST BE WITHIN LIMITS OF SOIL DISTURBING ACTIVITY. THESE AREAS SHALL BE INSPECTED FOR POTENTIAL POLLUTANTS ENTERING SYSTEM.
- DURING CONSTRUCTION IF IT BECOMES EVIDENT THAT DISTURBED AREA WILL NOT BE DISTURBED FOR PERIOD EXCEEDING 14 DAYS, STABILIZATION OF THE DISTURBED AREAS SHALL INITIATE IMMEDIATELY.
- PERMANENT SEEDING AND MULCHING TO BE DONE IMMEDIATELY AFTER FINAL GRADING.
- ANY FAILED AREA OF SEEDING SHALL BE RESEEDING - IN THE EVENT THAT SEEDING/MULCHING DOES NOT OCCUR PRIOR TO WINTER, ALL DISTURBED AREAS SHALL BE MULCHED.
- SILT FENCING SHALL BE CLEANED WHEN THEY HAVE LOST 50% OF THEIR CAPACITY.
- DRAINAGE SWALES REMAIN UNDISTURBED.
- ROCK OUTLET PROTECTION SHALL REMAIN INTACT.
- PERMANENT FINAL PLANT COVERING OR STRUCTURES SHALL BE INSTALLED IMMEDIATELY AFTER FINAL GRADING IS COMPLETED. REPLANTING MAY BE REQUIRED TO ENSURE ADEQUATE VEGETATIVE COVER IS ESTABLISHED. ADEQUATE VEGETATIVE COVER IS CONSIDERED TO BE 70% MIN. COVERAGE OF SOIL SURFACE BY INTENDED SPECIES. IF NATIVE LANDSCAPE IS USED, THEN 70% COVERAGE BY COVER CROP IS REQUIRED.
- SOIL SHALL BE WATERED DURING DRY, WINDY CONDITIONS TO MINIMIZE EROSION.
- WORK REQUIRING ENTERING AND LEAVING SITE OVER COUNTY ROADWAYS INCLUDING MATERIAL DELIVERY AND MOVEMENT OF EQUIPMENT SHALL NOT BE PERMITTED DURING PERIODS WHEN GROUND IS EXCEPTIONALLY SOFT AND WET AND EROSION BY VEHICLE IS CERTAIN.
- SOIL STOCKPILES SHALL BE STABILIZED WITH VEGETATION OR COVERED. MOWING MAY BE REQUIRED IF VEGETATION BECOMES A NUISANCE.
- EROSION CONTROL CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL MEASURES ONCE SITE HAS BEEN PERMANENTLY ESTABLISHED WITH GROUND COVER.
- CONCRETE WASHOUT AREA SHALL BE DESIGNED AND CONSTRUCTED PER SUDAS SECTION 11.050 AND SHALL HAVE AN IMPERMEABLE LINER TO CONTAIN ALL WASTE CONCRETE MATERIALS. WHEN CONTAINER IS ¾ FULL (AVOID SPILLOVERS) PCC WASTE SHALL BE DISPOSED OF PROPERLY (SENT TO AN APPROPRIATE RECYCLING FACILITY). PCC WASTE SHALL NOT BE BURIED ON SITE.
- TRASH SHALL BE CLEANED UP DAILY OR PUT INTO COVERED DUMPSTER.

5. INSPECTIONS

- CONTRACTOR SHALL KEEP A COPY OF SWPPP ON SITE
- QUALIFIED PERSONNEL SHALL INSPECT DISTURBED AREAS OF CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
- INSPECT SITE FOR EVIDENCE OF, OR POTENTIAL OF, POLLUTANTS ENTERING DRAINAGE SYSTEM FROM STORED MATERIALS.
- OBSERVE EROSION AND SEDIMENT CONTROL MEASURES TO ENSURE THAT THEY ARE OPERATING CORRECTLY. REPAIR AND REPLACE AS NECESSARY.
- LOCATIONS WHERE VEHICLES ENTER OR EXIT SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.
- INSPECT DISCHARGE LOCATIONS TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS.
- ANY MODIFICATIONS TO PLAN AS RESULT OF AN INSPECTION SHALL BE IMPLEMENTED WITHIN 7 CALENDAR DAYS OF INSPECTION. IF IT IS DETERMINED TO BE IMPRACTICABLE TO MAKE THESE CHANGES WITHIN 72 HOURS OF INSPECTION, REASONING AND AN ESTIMATED DATE OF WHEN CHANGES WILL BE MADE SHALL BE DOCUMENTED IN PLANS.
- AN INSPECTION REPORT SHALL BE PREPARED AND RETAINED AS PART OF PREVENTION PLAN UNTIL PROJECT TERMINATION. THIS REPORT WILL CONTAIN FOLLOWING:
 - SUMMARY OF SCOPE OF INSPECTION
 - QUALIFICATIONS OF PERSONNEL MAKING INSPECTION
 - MAJOR OBSERVATIONS RELATING TO IMPLEMENTATION OF PREVENTION PLAN
 - ANY ACTIONS TAKEN
 - SIGNATURE
- REPORTS SHALL CONFORM TO STANDARDS SET BY IOWA DNR. COPIES OF THESE REPORTS SHALL BE FORWARDED TO OWNER
- CONTRACTOR IS TO TAKE NECESSARY ACTIONS TO CORRECT DEFICIENCIES FOUND DURING INSPECTIONS AS SOON AS PRACTICABLE BUT IN NO CASE LATER THAN SEVEN (7) DAYS AFTER INSPECTION. IF IT IS DETERMINED THAT IT IS IMPRACTICABLE TO MAKE THESE CHANGES WITHIN 72 HOURS OF INSPECTION, REASONING AND AN ESTIMATED DATE OF WHEN CHANGES WILL BE MADE SHALL BE DOCUMENTED IN PLANS.
- SWPPP RECORDS SHALL BE RETAINED FOR AT LEAST THREE YEARS AFTER NOTICE OF DISCONTINUATION HAS BEEN FILED.

6. NON-STORM WATER DISCHARGES

- WATER MAIN FLUSHING
- FLUSHED WATER WILL BE DISCHARGED INTO THE STORM SEWER SYSTEM WHERE, WHEN DISCHARGED, IT WILL UNDERGO EROSION AND SEDIMENT CONTROLS CONSISTING OF:
 - SILTATION BASIN
 - ROCK OUTLET PROTECTION (RIPRAP)
 - SILT FENCING
 - EXISTING VEGETATION
- FLUSHED WATER CONTAINING CHEMICALS (I.E. CHLORINE AND/OR DETERGENTS) NEED TO BE NEUTRALIZED PRIOR TO DISCHARGE TO THE CONTROLS LISTED.
- PETROLEUM STORAGE INCLUDING BUT NOT LIMITED TO FUEL, GEAR OIL, ENGINE OIL, HYDRAULIC OIL, WASTE OIL SHALL NOT BE STORED ON SITE.
- CONCRETE WASHOUT AREAS SHALL BE DESIGNED IN COMPLIANCE WITH SUDAS SPECIFICATION 11.050.
- PORTABLE TOILETS SHALL BE SECURED FROM OVERTURNING AND SHALL HAVE DOWNSLOPE SILT FENCE PROTECTION. HOLDING TANK WILL BE PUMPED OUT AS NEEDED AND DISPOSED OF OFF-SITE.
- CONTRACTOR SHALL CONTAIN AND PROPERLY DISPOSE OF ALL CONCRETE SAWCUTTINGS AND GRINDING.
- DISCHARGES FROM DEWATERING ACTIVITIES, INCLUDING DISCHARGES FROM DEWATERING OF TRENCHES AND EXCAVATIONS, ARE PROHIBITED UNLESS MANAGED BY APPROPRIATE CONTROLS SUCH AS DEWATERING BAGS OR EQUAL.
- FOLLOWING DISCHARGES ARE PROHIBITED:
 - WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO
 - PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS
 - FUEL, OIL, OR POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE
 - SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING
- DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER AND OTHER WASH WATERS SHALL BE MINIMIZED. WASH WATERS SHALL BE TREATED IN SEDIMENT BASIN OR EQUAL CONTROL.
- EXPOSURE OF BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER PRESENT MATERIALS TO PRECIPITATION AND STORM WATER SHALL BE MINIMIZED.
- DISCHARGE OF POLLUTANTS FROM SPILLS AND LEAKS SHALL BE MINIMIZED.
- REPORT ANY HAZARDOUS CONDITIONS CONDITION AND UPDATE PLAN
- IOWA LAW REQUIRES THAT HAZARDOUS CONDITION OR SPILL IS REPORTED NOT MORE THAN SIX HOURS AFTER ONSET OF SAID CONDITION OR SPILL. IDNR AND LOCAL OR COUNTY SHERIFF'S OFFICE SHALL BE NOTIFIED.
- MODIFY SWPPP WITHIN 5 CALENDAR DAYS OF HAZARDOUS CONDITION. PLAN UPDATE SHALL INCLUDE RELEASE AND CIRCUMSTANCES OF RELEASE AND PLANS TO PREVENT FUTURE REOCCURRENCE OF SUCH RELEASES.
- NOTICE OF DISCONTINUATION (NOD)
 - WITHIN 30 DAYS OF FINAL SITE STABILIZATION OWNER OR GENERAL CONTRACTOR MUST SUBMIT NOTICE OF DISCONTINUATION TO IDNR. NOD SHALL INCLUDE:
 - NAME OF THE OWNER OR OPERATOR TO WHICH COVERAGE UNDER GENERAL PERMIT WAS ISSUED
 - GENERAL PERMIT NUMBER AND PERMIT AUTHORIZATION NUMBER
 - DATE CONSTRUCTION SITE REACHED FINAL STABILIZATION
 - SIGNED CERTIFICATION
 - NOD SHALL BE MAILED TO:
 - STORM WATER COORDINATOR
 - IOWA DEPARTMENT OF NATURAL RESOURCES
 - 502 E. 9TH STREET
 - DES MOINES, IOWA 50319-0034

SEQUENCE OF MAJOR ACTIVITIES

1. **PRE-CONSTRUCTION:** SOIL STABILIZATION AND EROSION CONTROL MEASURES WILL BE PLACED BY CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION OPERATIONS. VEGETATION IN AREAS NOT NEEDED FOR CONSTRUCTION SHALL BE PRESERVED. EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL FINAL STABILIZATION HAS BEEN ACHIEVED.
2. INSTALL UPSTREAM DIVERSIONS, DOWN SLOPE AND SIDE SLOPE PERIMETER CONTROLS BEFORE COMMENCING LAND DISTURBING ACTIVITIES.
3. DO NOT DISTURB AN AREA UNLESS IT IS NECESSARY FOR CONSTRUCTION TO PROCEED.
4. COVER OR STABILIZE DISTURBED AREAS AS SOON AS POSSIBLE.
5. TIME CONSTRUCTION ACTIVITIES TO LIMIT IMPACT ON SEASONAL WEATHER CHANGES.
6. IF INFILTRATION METHODS ARE USED, INSTALL THEM AFTER UPSTREAM IS STABILIZED.
7. DO NOT REMOVE PERIMETER CONTROLS UNTIL UPSTREAM AREAS ARE STABILIZED.
8. DISTURBED AREAS SHALL BE SEEDING, FERTILIZED AND MULCHED AS SOON AS POSSIBLE.
9. NOTICE OF DISCONTINUATION WILL BE FILED ONCE SITE IS STABILIZED.



VICINITY SKETCH



OWNER'S CERTIFICATION

"I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE AS PART OF THIS CERTIFICATION. FURTHER, BY MY SIGNATURE, I UNDERSTAND THAT I AM BECOMING A CO-PERMITTEE, ALONG WITH THE CONTRACTOR AND SUBCONTRACTORS SIGNING SUCH CERTIFICATIONS, TO THE IOWA DEPARTMENT OF NATURAL RESOURCES NPDES GENERAL PERMIT NO. 2 FOR "STORM WATER DISCHARGE ASSOCIATED WITH INDUSTRIAL ACTIVITY" FOR CONSTRUCTION ACTIVITIES" AT THE IDENTIFIED SITE. AS A CO-PERMITTEE, I UNDERSTAND THAT I, AND MY ORGANIZATION, ARE LEGALLY REQUIRED UNDER THE CLEAN WATER ACT AND THE CODE OF IOWA, TO ENSURE COMPLIANCE WITH THE TERMS AND CONDITIONS OF THE STORM WATER POLLUTION PREVENTION PLAN DEVELOPED UNDER THIS NPDES PERMIT AND THE TERMS OF THIS NPDES PERMIT.

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

NAME / TITLE: _____
COMPANY: _____
TELEPHONE NUMBER: _____

CONTRACTOR CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE AS PART OF THIS CERTIFICATION. FURTHER, BY MY SIGNATURE, I UNDERSTAND THAT I AM BECOMING A CO-PERMITTEE, ALONG WITH THE OWNER(S) AND OTHER CONTRACTORS AND SUBCONTRACTORS SIGNING SUCH CERTIFICATIONS, TO THE IOWA DEPARTMENT OF NATURAL RESOURCES NPDES GENERAL PERMIT NO. 2 FOR "STORM WATER DISCHARGE ASSOCIATED WITH INDUSTRIAL ACTIVITY" FOR CONSTRUCTION ACTIVITIES" AT THE IDENTIFIED SITE. AS A CO-PERMITTEE, I UNDERSTAND THAT I AND MY COMPANY ARE LEGALLY REQUIRED UNDER THE CLEAN WATER ACT AND THE CODE OF IOWA, TO ENSURE COMPLIANCE WITH THE TERMS AND CONDITIONS OF THE STORM WATER POLLUTION PREVENTION PLAN DEVELOPED UNDER THIS NPDES PERMIT AND THE TERMS OF THIS NPDES PERMIT.

GENERAL CONTRACTOR

NAME / TITLE: _____
COMPANY: _____
TELEPHONE NUMBER: _____

SUBCONTRACTOR

NAME / TITLE: _____
COMPANY: _____

SUBCONTRACTOR

NAME / TITLE: _____
COMPANY: _____

SUBCONTRACTOR

NAME / TITLE: _____
COMPANY: _____

QUANTITIES

- 8,650 LF SILT FENCE
- 15.7 ACRES SEEDING - TYPE 2 (PERMANENT)
- 1.4 ACRES SOD
- 33.8 ACRES SEEDING - TYPE 4 (TEMPORARY AS NEEDED)
- 28 EA INTAKE FILTER BASKETS
- 1 EA CONSTRUCTION ENTRANCE

AREA OF DISTURBANCE

33.8 ACRES

PRELIMINARY - NOT FOR CONSTRUCTION

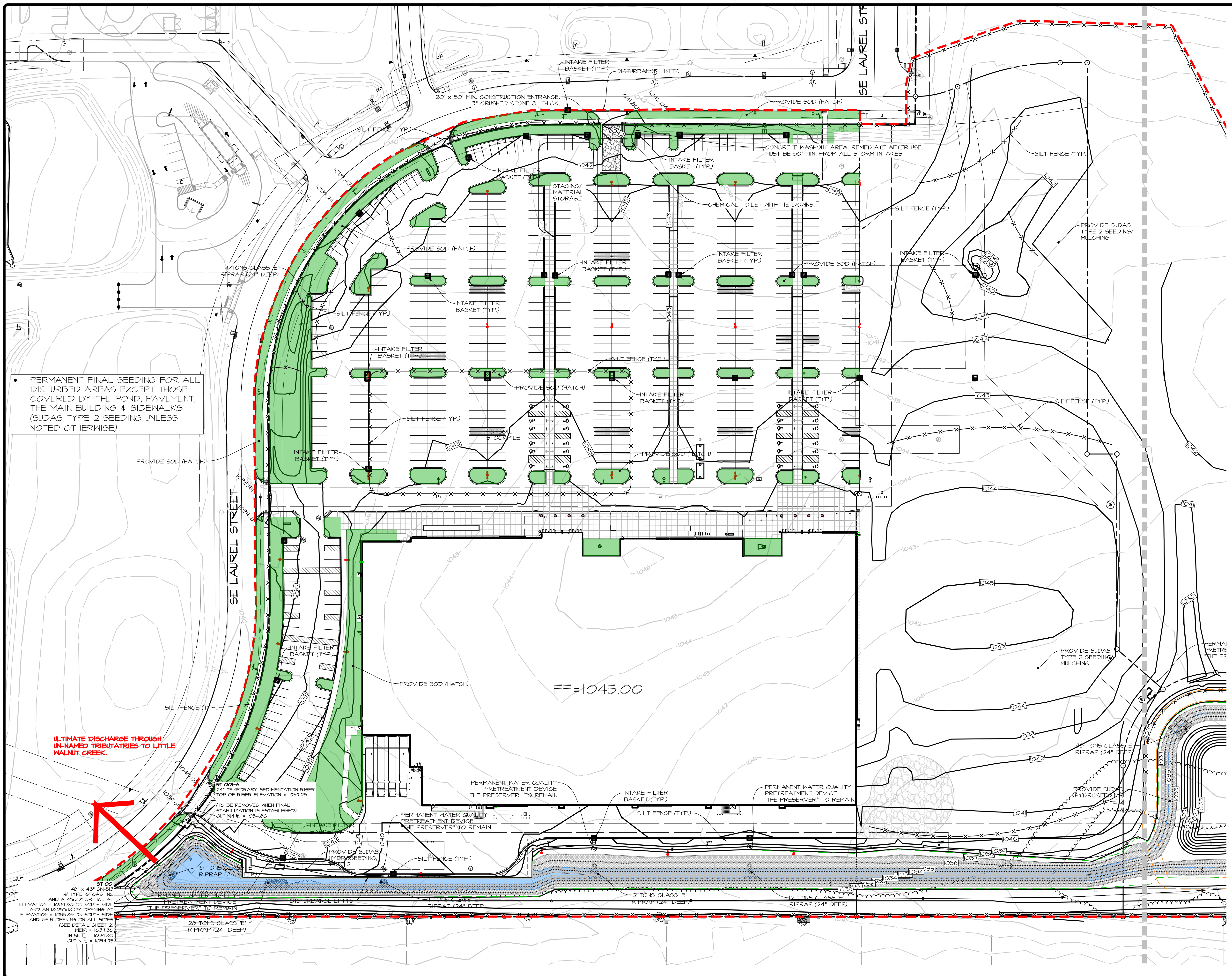
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DESIGNED BY:	EHA
DRAWN BY:	NKI

LOT 1, WAUKEE TOWNE CENTER PLAT 2
WAUKEE, IOWA
EROSION CONTROL NOTES

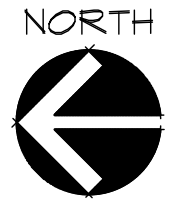
Q:\A-FILES\A-2100\A2157_C3D Drawings Construction Documents\Site Plan\A2157 (14) EROSION CONTROL PLAN.dwg, 10/25/2022 3:46:06 PM, smakinley, 1:1



PERMANENT FINAL SEEDING FOR ALL DISTURBED AREAS EXCEPT THOSE COVERED BY THE POND, PAVEMENT, THE MAIN BUILDING & SIDEWALKS (SUDAS TYPE 2 SEEDING UNLESS NOTED OTHERWISE)

ULTIMATE DISCHARGE THROUGH UN-NAMED TRIBUTARIES TO LITTLE WALNUT CREEK.

SCALE: 1"=100' (11"x17")
SCALE: 1"=50' (22"x34")
0' 10' 20' 30' 40' 50' 100'

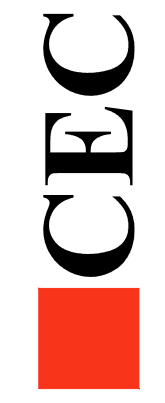


SHEET
25
OF
27
A-2157

PRELIMINARY - NOT FOR CONSTRUCTION

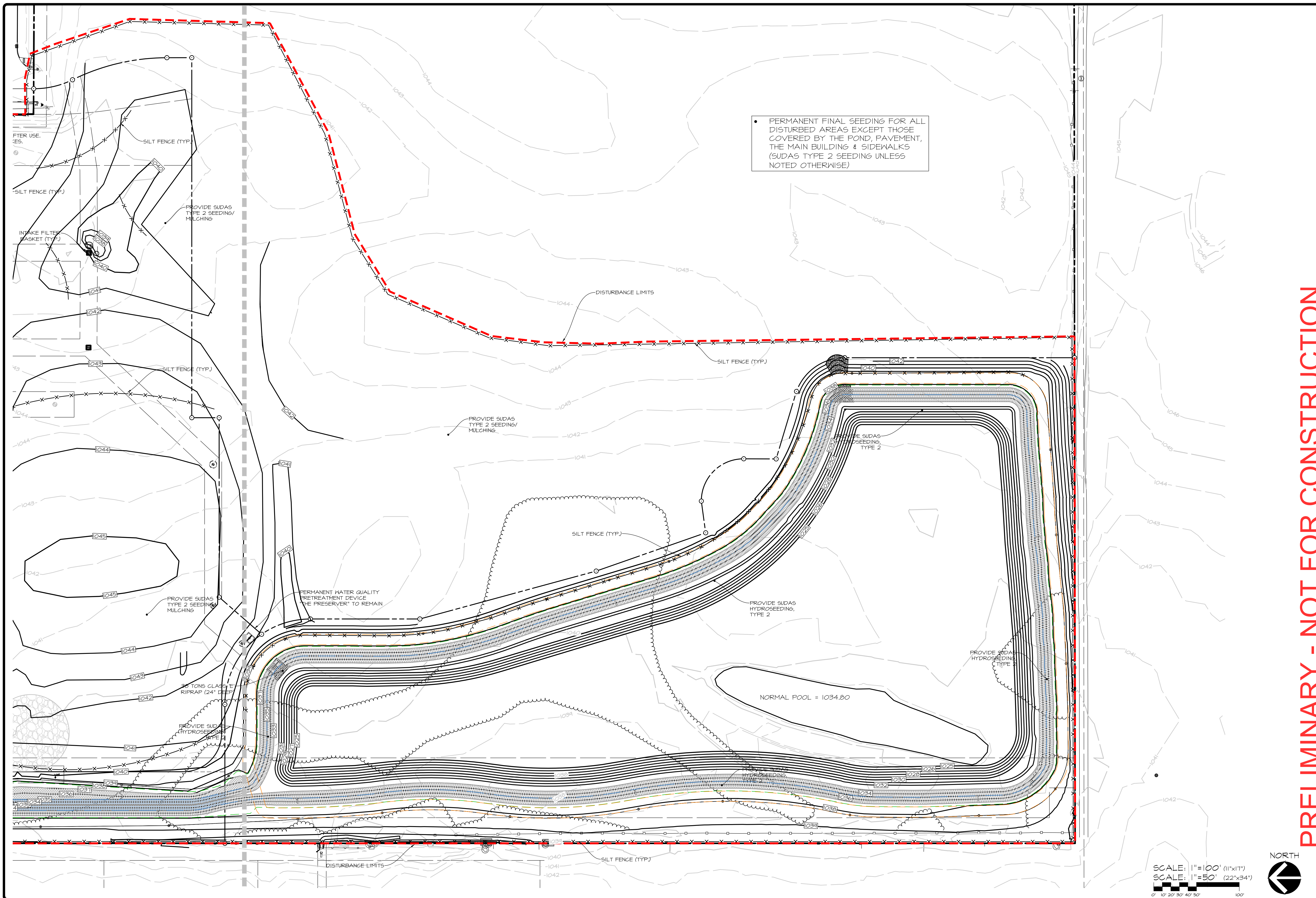
LOT 1, WAUKEE TOWNE CENTER PLAT 2
WAUKEE, IOWA
EROSION CONTROL PLAN NORTH

DATE: 2022-10-25 - 4TH SUBMITTAL
2022-04-22 - 3RD SUBMITTAL
2022-08-24 - 2ND SUBMITTAL
2022-07-26 - 1ST SUBMITTAL
DATE OF SURVEY: 2019-09-20
DESIGNED BY: EHA
DRAWN BY: NMI



Civil Engineering Consultants, Inc.
2400 86th Street Unit 12 Des Moines, Iowa 50322
515.276.4884 mail@cecinc.com

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• PERMANENT FINAL SEEDING FOR ALL DISTURBED AREAS EXCEPT THOSE COVERED BY THE POND, PAVEMENT, THE MAIN BUILDING & SIDEWALKS (SUDAS TYPE 2 SEEDING UNLESS NOTED OTHERWISE)

PRELIMINARY - NOT FOR CONSTRUCTION

LOT 1, WAUKEE TOWNE CENTER PLAT 2
 WAUKEE, IOWA
EROSION CONTROL PLAN SOUTH

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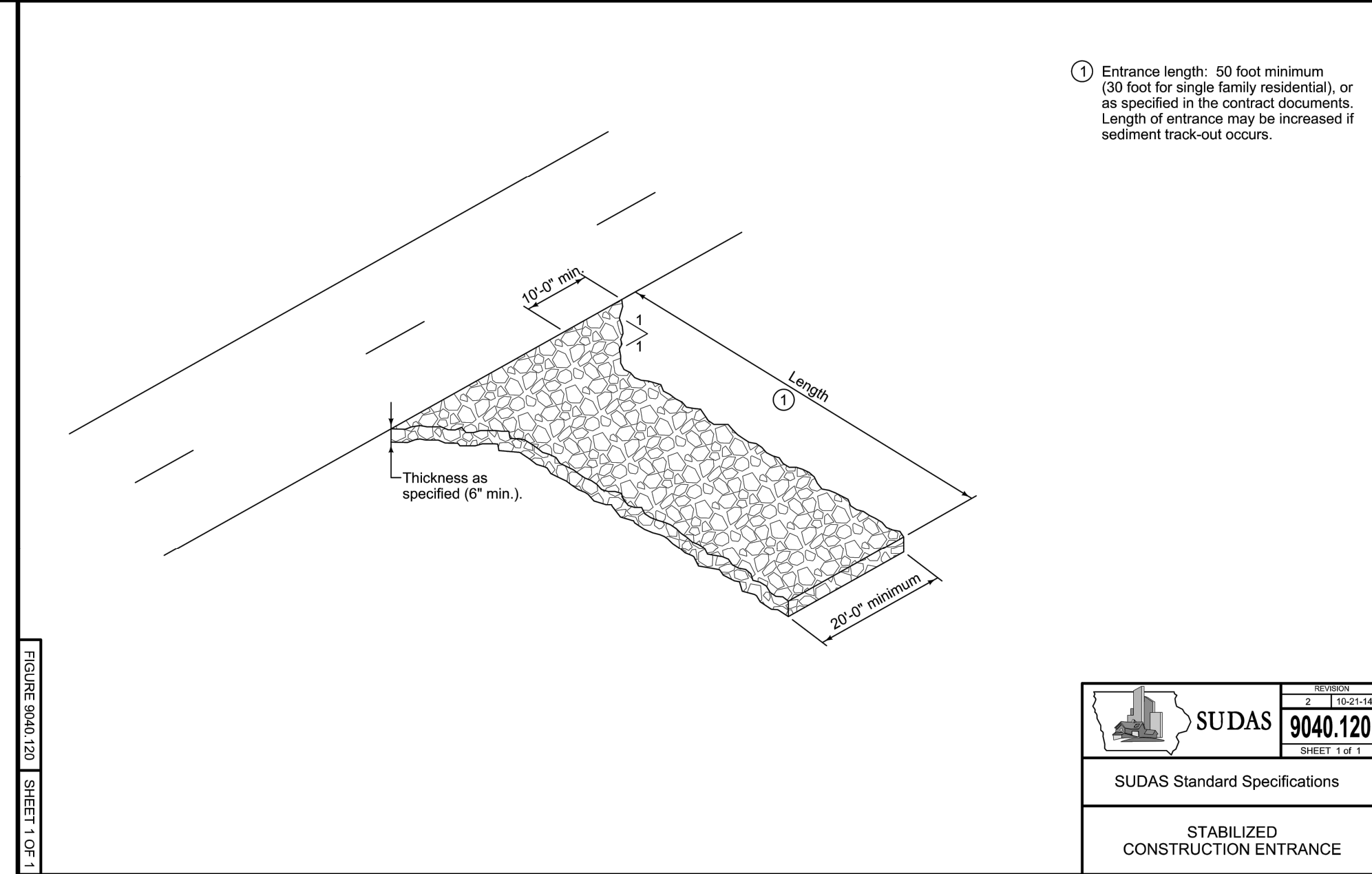
DATE:	2022-10-25 - 4TH SUBMITTAL	EHA	MM
	2022-04-22 - 3RD SUBMITTAL		
	2022-09-24 - 2ND SUBMITTAL		
	2022-07-26 - 1ST SUBMITTAL		
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DRAWN BY:			

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SCALE: 1"=100' (11"x17")
 SCALE: 1"=50' (22"x34")

NORTH

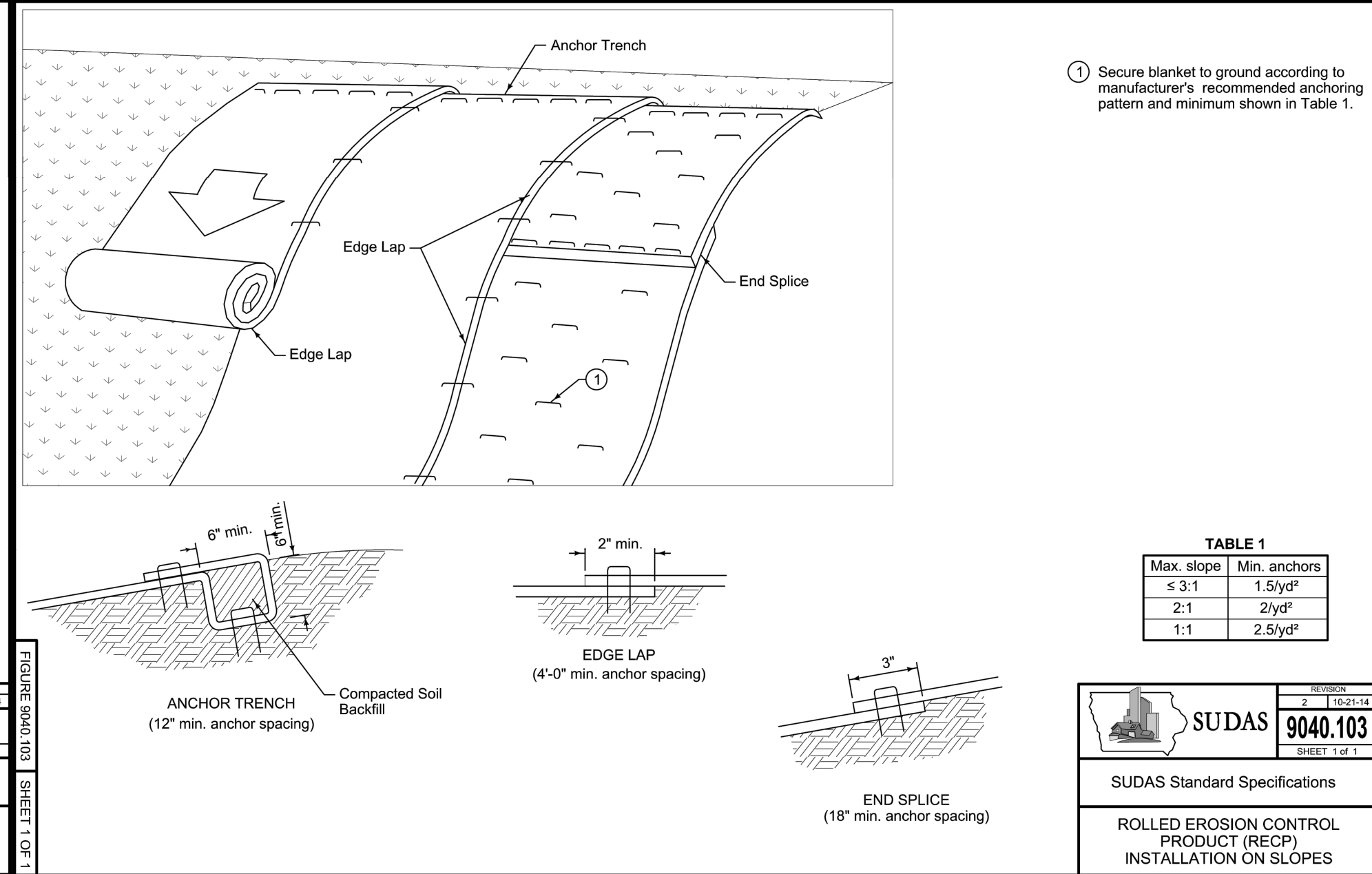
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SUDAS 9040.120

SUDAS Standard Specifications

STABILIZED CONSTRUCTION ENTRANCE



SUDAS 9040.103

SUDAS Standard Specifications

ROLLED EROSION CONTROL PRODUCT (RECP) INSTALLATION ON SLOPES

FLEXSTORM CATCH-IT FILTERS FOR TEMPORARY INLET PROTECTION

PRODUCT SELECTION AND SPECIFICATION DRAWING

NOTES:

- ALL FRAMING IS CONSTRUCTED OF CORROSION RESISTANT STEEL (ZINC PLATED OR GALVANIZED) FOR 7 YEAR MINIMUM SERVICE LIFE.
- UPON ORDERING CONFIRMATION OF THE DOT CALLOUT, PRECAST OR CASTING MAKE AND MODEL, OR DETAILED DIMENSIONAL FORMS MUST BE PROVIDED TO CONFIGURE AND ASSEMBLE YOUR CUSTOMIZED FLEXSTORM INLET FILTER. PART NUMBER ALONE IS NOT SUFFICIENT.
- FOR WRITTEN SPECIFICATIONS AND MAINTENANCE GUIDELINES VISIT WWW.INLETFILTERS.COM

STYLE	FRAME STYLE AND SIZE	Frame P/N:
ROUND	Small Round (up to 20" dia grates (A) only)	62SRD
	Med Round (20.1" - 25" dia grates (A) up to 25" dia openings (B))	62MRD
	Large Round (26.1" - 32" dia grates (A) up to 30" dia openings (B))	62LRD
	XL Round (32.1" dia - 38" dia grates (A) up to 37" dia openings (B))	62XLRD
RECT. SQUARE	Small Rect / Square (up to 18" (B) x 18" (D) openings or 50" perimeter)	62RSQ
	Med Rect / Square (up to 24" (B) x 24" (D) openings or 90" perimeter)	62MSQ
	Large Rect / Square (up to 30" (B) x 30" (D) openings or 120" perimeter)	62LSQ
	XL Rect / Square (side by side 2 pc ask to fit up to 48" (B) x 36" (D) openings)	62XLSQ
COMBO INLETS	Small Rect / Square (ref Rest sizing, shipped with Magnetic Curb Flaps)	62SCR
	Med Rect / Square (ref Rest sizing, shipped with Magnetic Curb Flaps)	62MSR
	Large Rect / Square (ref Rest sizing, shipped with Magnetic Curb Flaps)	62LSR
	XL Rect / Square (ref Rest sizing, shipped with Magnetic Curb Flaps)	62XLSR
NYLOPLAST	12" diameter Nyloplast castings (Stainless Steel Framing standard)	6212NY
	18" diameter Nyloplast castings (Stainless Steel Framing standard)	6218NY
	24" diameter Nyloplast castings (Stainless Steel Framing standard)	6224NY
	30" diameter Nyloplast castings (Stainless Steel Framing standard)	6230NY

FLEXSTORM FILTER BAGS	(12" depth)	(12" depth)	Clean Water Flow Rate (GPM)(cfs)	Min A.O.S. (1/8" steel)
FX Standard Woven Bag	FX	FX-S	200	40
IL-IDOT Non-Woven Bag	IL	IL-S	145	70

Frame P/N from Step 1.	Filter Bag P/N from Step 2.
------------------------	-----------------------------

Nominal Bag Size	Solids Storage (Cu Ft)	Filtered Flow Rate at 50% Max (CFS)	IL (Nonwoven)
Small	1.6	1.2	0.9
Medium	2.1	1.7	1.3
Large	3.8	2.7	1.9
XL	4.2	3.6	2.6

INSTALLATION:

- REMOVE GRATE
- DROP FLEXSTORM INLET FILTER ONTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE
- REPLACE GRATE

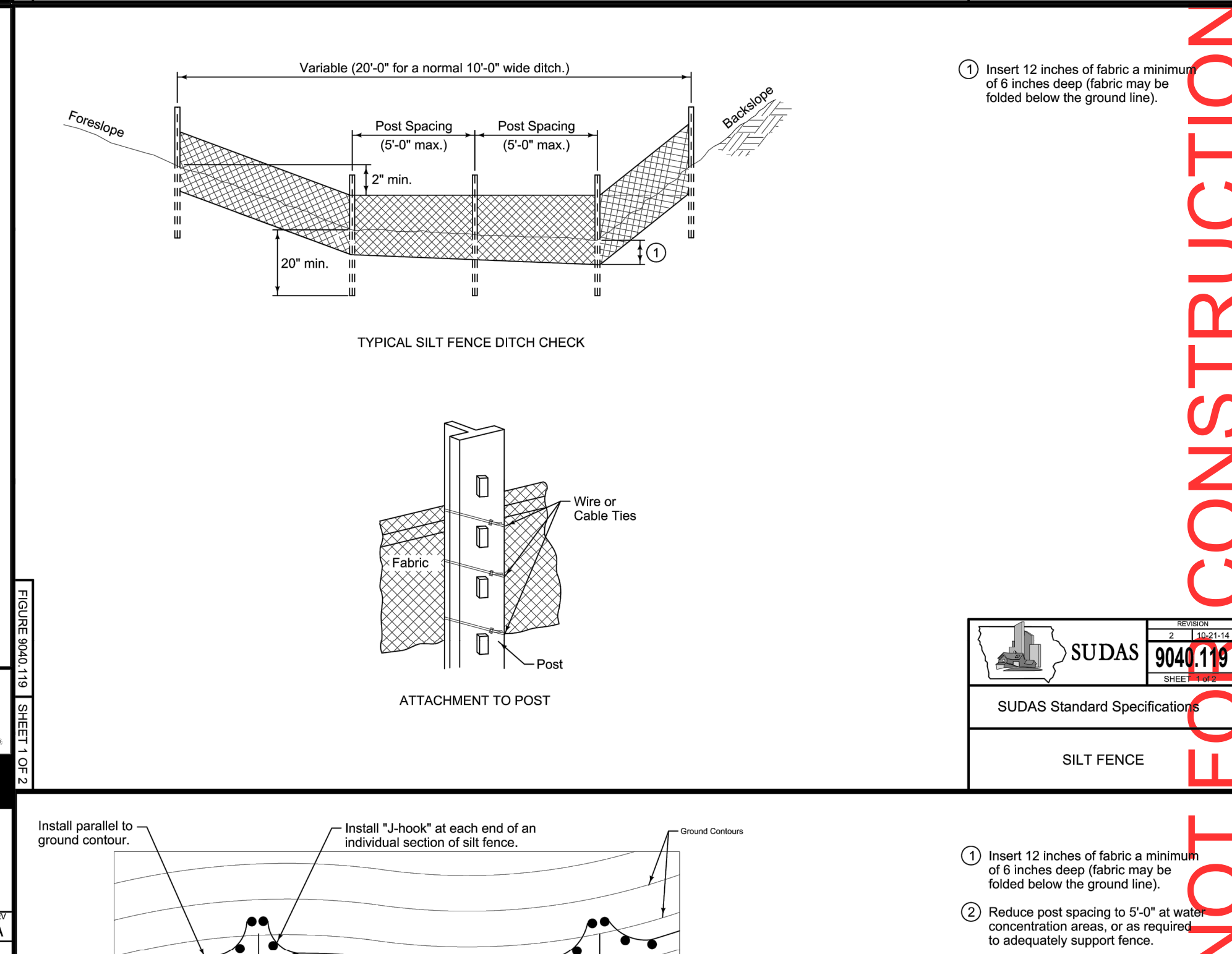
FLEXSTORM CATCH IT

ALL PRODUCTS MANUFACTURED BY INLET & PIPE PROTECTION, INC A DIVISION OF ADS, INC. WWW.INLETFILTERS.COM (866) 287-8655 PH (630) 353-3477 FX INFO@INLETFILTERS.COM

SUDAS 9040.119

SUDAS Standard Specifications

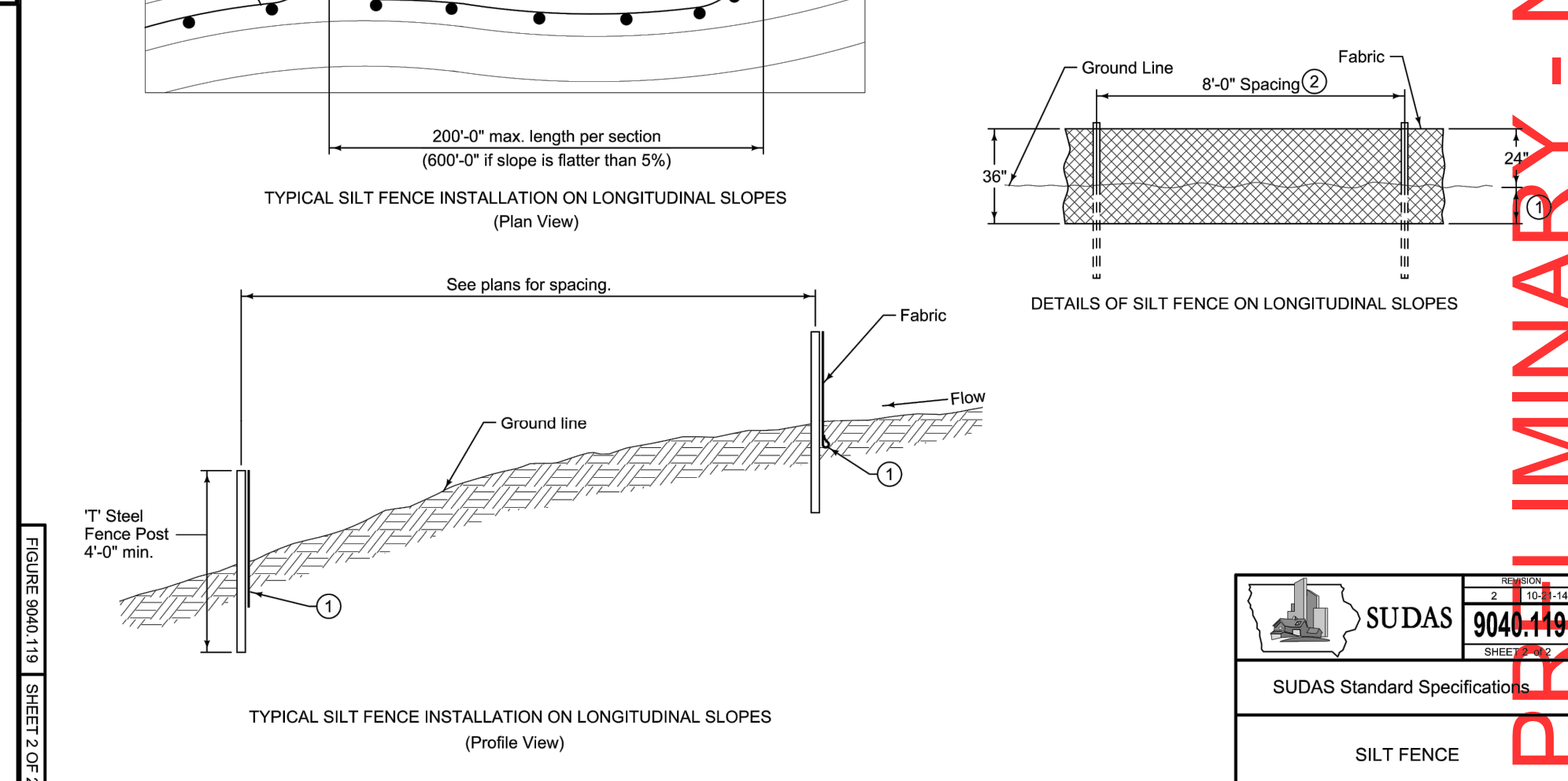
SILT FENCE



SUDAS 9040.119

SUDAS Standard Specifications

SILT FENCE



SUDAS 9040.119

SUDAS Standard Specifications

SILT FENCE

PRELIMINARY - NOT FOR CONSTRUCTION

LOT 1, WAUKEE TOWNE CENTER PLAT 2

WAUKEE, IOWA

EROSION CONTROL DETAILS

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CEC

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