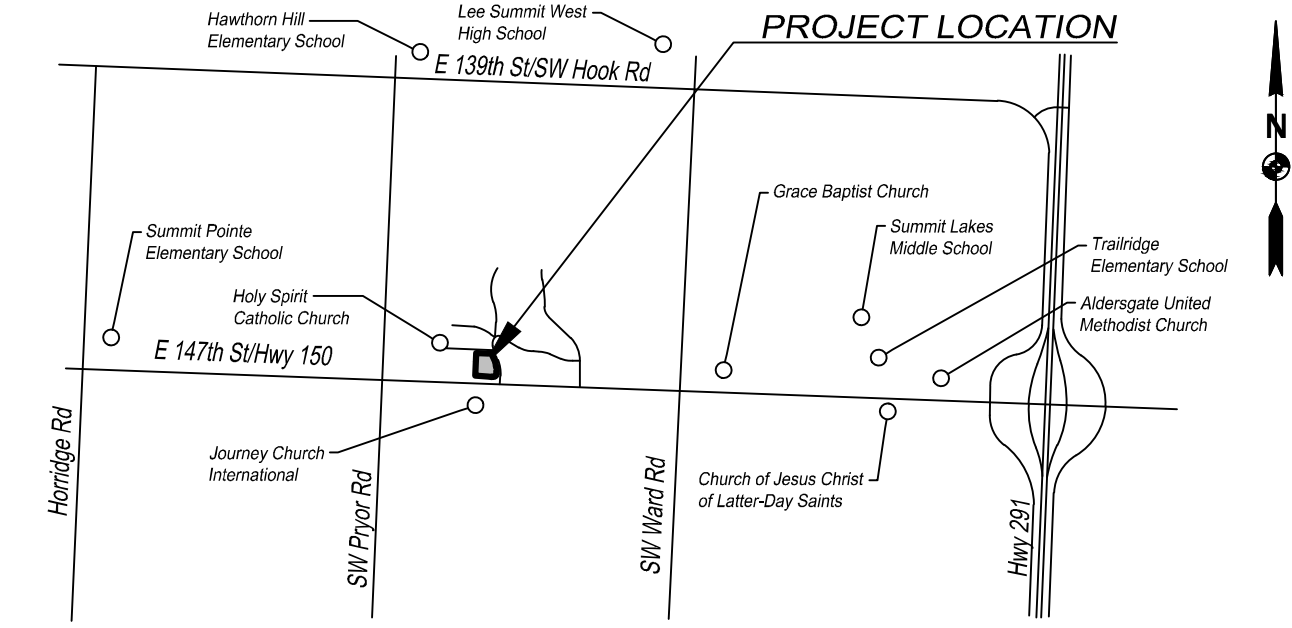


CIVIL/SITE DEVELOPMENT PLANS FOR CASEY'S GENERAL STORE #4291 HIGHWAY 150 & ARBORIDGE DRIVE LEE SUMMIT, MISSOURI 64081



LOCATION MAP
NTS

MISSOURI ONE-CALL:
1-800-DIG-RITE
(1-800-344-7483)



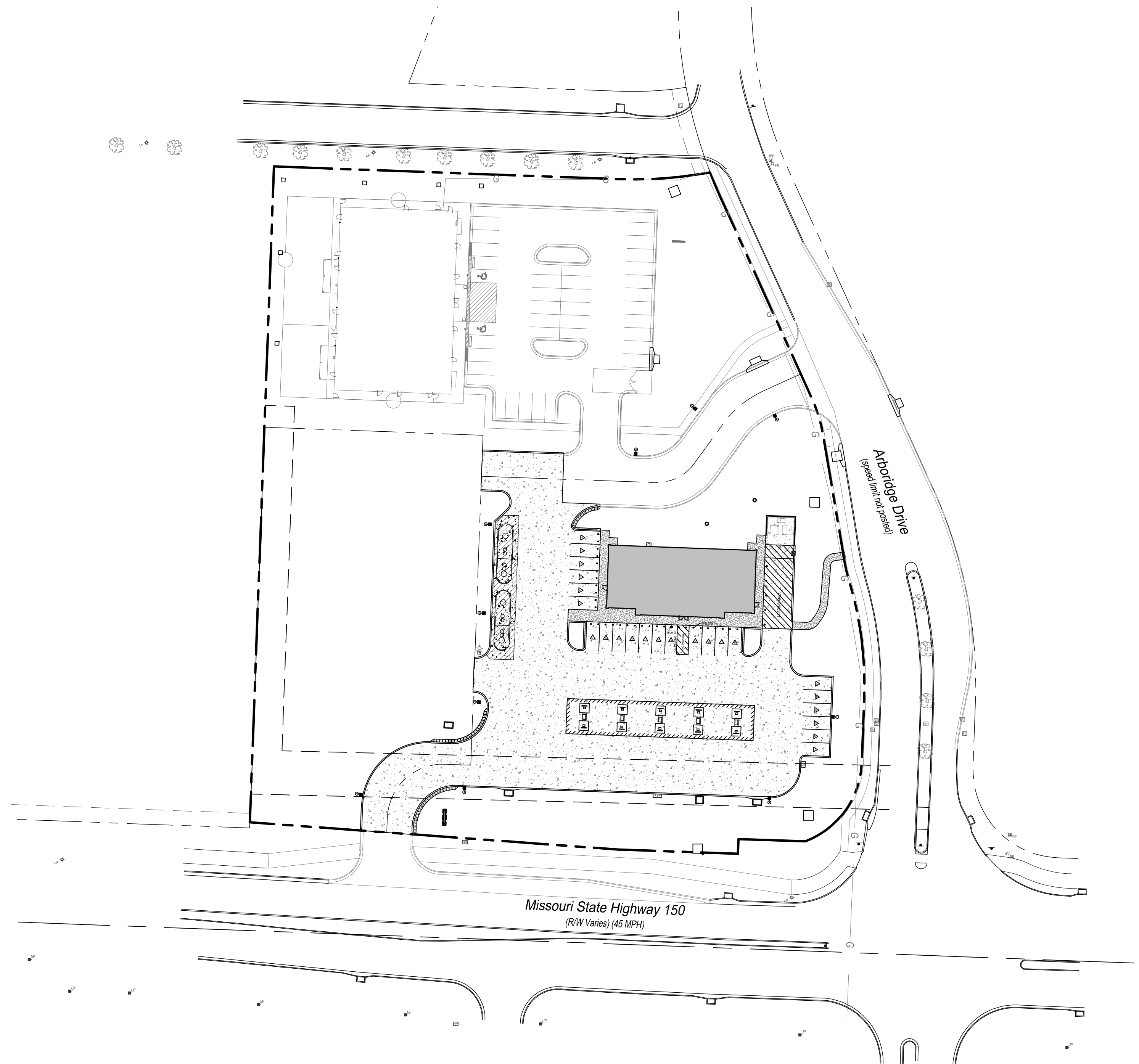
**Know what's below.
Call before you dig.**

GENERAL NOTES:

1. ALL CONSTRUCTION METHODS AND MATERIALS USED IN THE CONSTRUCTION OF THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE IN ACCORDANCE WITH THE STANDARD TECHNICAL SPECIFICATIONS AND CURRENT REVISIONS ON FILE IN THE OFFICE OF THE CITY ENGINEER, CITY OF LEE SUMMIT, MISSOURI.
2. UTILITIES WERE FIELD LOCATED THROUGH MISSOURI ONE CALL. THE LOCATION OF ALL OVERHEAD AND UNDERGROUND UTILITIES MAY VARY FROM WHAT IS INDICATED IN THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE UTILITY OWNER TO LOCATE AND FLAG ALL UNDERGROUND UTILITIES WHETHER INDICATED OR NOT. NO EXCAVATION WILL BE PERMITTED IN THE AREA OF UNDERGROUND UTILITIES UNTIL ALL SUCH UTILITIES HAVE BEEN LOCATED AND IDENTIFIED TO THE SATISFACTION OF ALL PARTIES AND THEN ONLY WITH EXTREME CARE TO AVOID ANY POSSIBILITY OF DAMAGE TO THE UTILITY.
3. ALL PERMITS AND FEES NECESSARY TO CONSTRUCT THE PROJECT IS THE RESPONSIBILITY OF THE CONTRACTOR UNLESS OTHERWISE NOTED.
4. UNLESS OTHERWISE SPECIFIED, ALL DISTURBED AREAS THAT ARE NON-HARDSCAPED SHALL BE EITHER LANDSCAPED OR SEEDED AND FERTILIZED.
5. ALL PAVEMENT REMOVAL AREAS SHALL BE SAW CUT TO FORM A STRAIGHT AND UNIFORM LINE.
6. ALL WORK WITHIN THE RIGHT-OF-WAY SHALL COMPLY WITH MODOT STANDARDS AND SPECIFICATIONS.

NON-EMERGENCY UTILITY OWNER CONTACTS

Cable TV AT&T Carrie Cilke (816)703-4386 cc3527@att.com	Gas Service Spire Bobbie Saulsberry (816)591-6909 bobbie.saulsberry@sprienergy.com
Water / Sanitary Sewer Water Utilities Department Jeff Thorn (816)969-1900 jeff.thorn@cityofs.net	Electric Evergy Ron DeJarnette (816)347-4316 ron.dejarnette@evergy.com



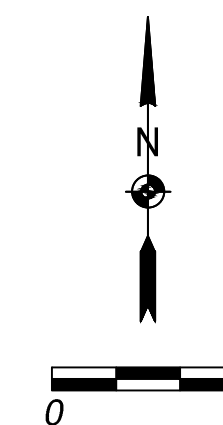
INDEX OF SHEETS

SHEET	TITLE
C-001	COVER SHEET
C-003 - C-004	ALTA SURVEY
C-100	EXISTING CONDITION PLAN
C-101	OVERALL SITE PLAN
C-102	FIRE TRUCK MOVEMENT PLAN
C-103	SITE PLAN
C-201	GRADING PLAN
C-202 - C-203	GRADING SPOTS
C-301	UTILITY PLAN
C-302	DRAINAGE MAP
C-303	STORM SEWER PLAN & PROFILE
C-401	EROSION CONTROL PLAN
C-402 - C-403	EROSION CONTROL DETAILS
C-601 - C-604	STANDARD DETAILS
C-701	LANDSCAPING PLAN

PROJECT CONTACT INFORMATION:

OWNER: CASEY'S MARKETING COMPANY
ONE SE CONVENIENCE BLVD
ANKENY, IA 50021
ATTN: SHANNON GERARD, email: shannon.gerard@caseys.com
PHONE: 515-381-5732

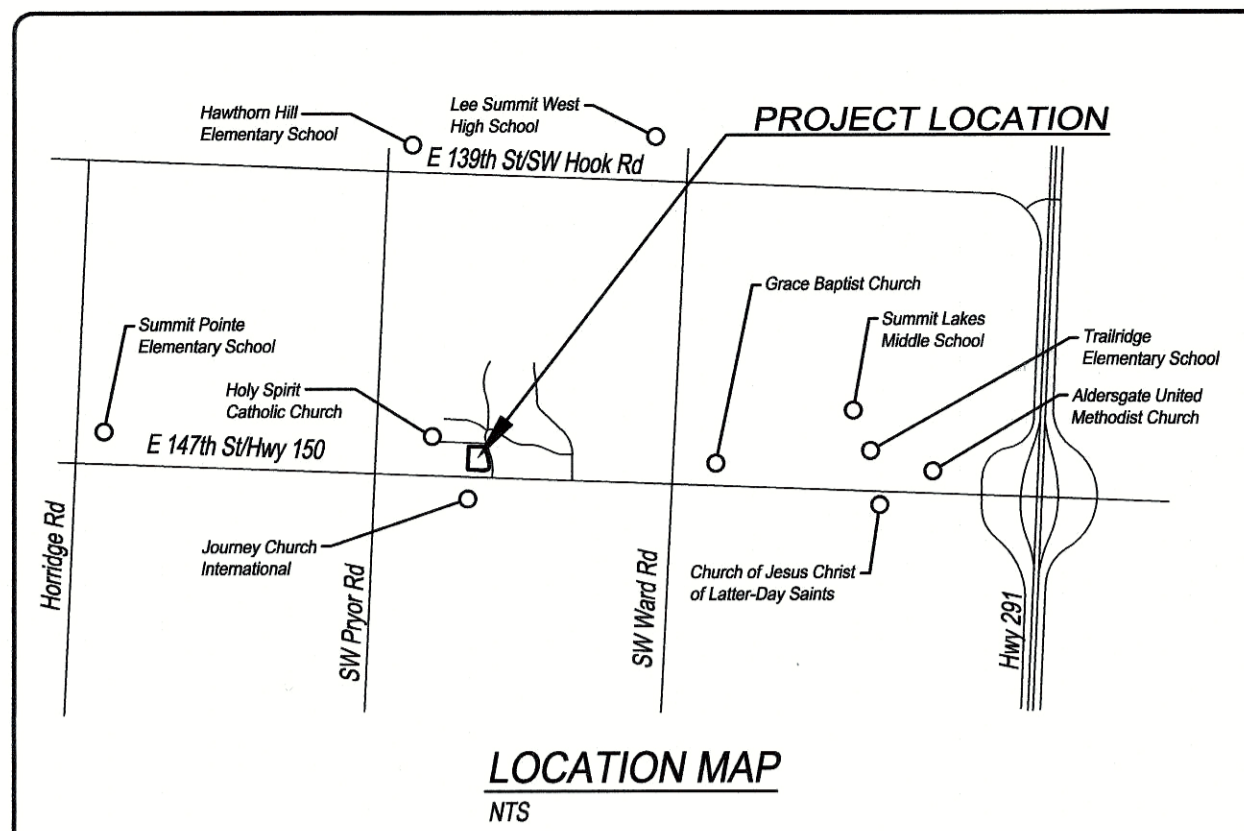
ENGINEER: SBB ENGINEERING, LLC
101 SOUTH KANSAS AVENUE
TOPEKA, KS 66603
ATTN: JEFF LAUBACH, PE email: jeff.laubach@sbbeng.com
PHONE: 785-215-8630



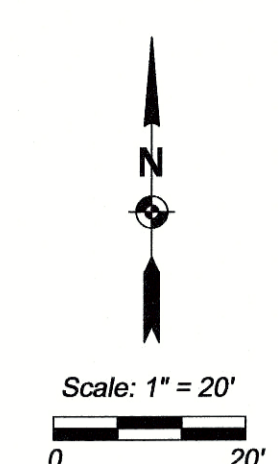
SBB ENGINEERING
101 South Kansas Avenue
Topeka, Kansas 66603
Ph: (785) 215-8630 /
www.sbbeng.com

Casey's	
CASEY'S CONSTRUCTION DIVISION One Convenience Blvd., P.O. Box 3001, Ankeny, IA 50021 515-965-6100	
PROJECT: LEE SUMMIT, MO #4291 HIGHWAY 150 & ARBORIDGE DRIVE "U4" - STYLE STORE	DATE: 08.11.23 REVISIONS: DRAWING INFORMATION: CONSTRUCTION DIVISION DRAWN BY: _____ CHECKED BY: _____
Cover Sheet	
C-001	

SBB Proj. No. 21-288



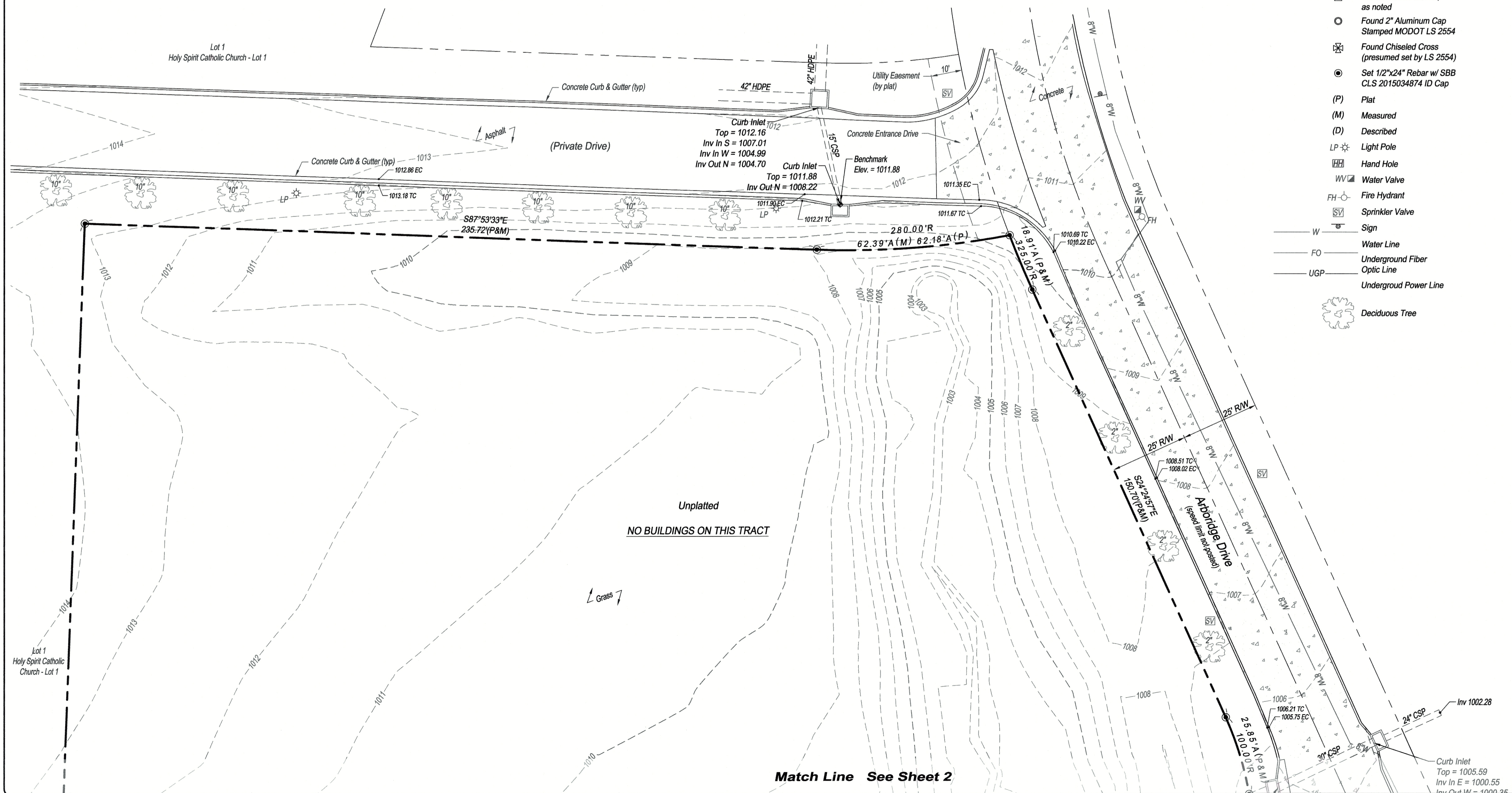
LOCATION MAP
NTS



SW Corner Sec. 25-47-32
Find 2" Aluminum Cap
w/ punch mark
(origin uncertain)

SE Corner Sec. 25-47-32
Find 2" Aluminum Cap
stamped CLS 59 2014

Property Detail
Scale: 1" = 100'



Match Line See Sheet 2

LEGEND

- △ Found Section Corner, as noted
- Found 2" Aluminum Cap Stamped MODOT LS 2554
- ⊗ Found Chiseled Cross (presumed set by LS 2554)
- Set 1/2"x24" Rebar w/ SBB CLS 2015034874 ID Cap
- (P) Plat
- (M) Measured
- (D) Described
- LP Light Pole
- HH Hand Hole
- WV Water Valve
- FH Fire Hydrant
- SV Sprinkler Valve
- W Water Line
- FO Underground Fiber
- UGP Optic Line
- Undergroud Power Line
- Deciduous Tree

LEGAL DESCRIPTION:

All that part of the Southwest Quarter of Section 25, Township 47, Range 32, in Lee's Summit, Jackson County, Missouri, lying North of the North line of Missouri Highway 150, as presently established, lying West of the West line of SW Arbuckle Drive as shown on the plat of ARBORWALK 4TH PLAT, a subdivision in Lee's Summit, Jackson County, Missouri, and lying South and East of Lot 1, HOLY SPIRIT CATHOLIC CHURCH - LOT 1, a subdivision in Lee's Summit, Jackson County, Missouri.

COMMITMENT FOR TITLE INSURANCE:
Issuing Office: Chicago Title Insurance Company
Order Number: KCC213333
Commitment Date: January 12, 2022 at 08:00 AM

SCHEDULE B, PART II EXCEPTIONS:

- Items 1 through 5 and 12 are standard exceptions, not plottable survey matters.
- Items 6, 7 and 13 are tax related items, not plottable survey matters.
- 8. Water line easement granted to the City of Lee's Summit, recorded June 25, 2001 as Document No. 200110048744. (Does not affect subject tract)
- 9. Right of way and easement granted to the State of Missouri by Warranty Deed recorded February 25, 2009 as Document No. 2009E017354. (This document describes the centerline of Missouri State Highway No. 150)(Is plotted hereon)(Easements and Right-of-Way taken by this document does not affect subject tract)
- 10. Right-of-Way Location Survey for MO State Highway 150 recorded July 9, 2009 as Document No. 2009E0068194, in Survey Book 33, Page 54 (This document is a survey of the proposed Right-of-Way of Missouri State Highway No. 150)(Is plotted hereon)
- 11. Any adverse claim based on the assertion that the boundary line of said Land is other than as shown on a survey designated as Job No. 23 1267 04, dated May 27, 2005, prepared by E.T. Archer Corporation d.b.a Archer Total Project Management. (Not a survey matter)

SURVEYOR'S NOTES:

1. The bearing system for this survey is based on Missouri State Plane, West Zone, NAD 83.
 2. Addresses shown on this survey were observed during the performance of the fieldwork.
 3. According to the Flood Insurance Rate Map "FIRM" Community Map Number 29085C0513G, effective date January 20, 2017, this property is in Flood Zone "X", area determined to be outside the 0.2% annual chance floodplain.
 4. Vertical datum shown on this survey is based on NAVD 88 datum.
- Chiseled square at center front face of curb inlet, located on South side of private drive along the North line of subject tract.
Elev. = 1011.88
- Chiseled square at the Northeast corner of concrete headwall for 6'x4' RCB, located near the SE corner of subject tract.
Elev. = 996.91
5. Client did not provide a current zoning report for subject tracts.
 6. The location of objects shown on this survey are those that were observable during the performance of the fieldwork. No research or investigation has been made with regards to any objects and/or potential encroachments that are underground.
 7. Utilities were field located through Missouri One Call Ticket No. 213571736, dated December 23, 2021, and through observable field evidence. Water line location and size is shown as per GIS information provided by the City of Lee Summit.
 8. Property ownership information and parcel lines are shown as per the Jackson County, Missouri on-line GIS map.

Reference Surveys:

- ALTA/NSPS Land Title Survey (unsigned), by Jason Roundbush, PLS 2002014092, dated June 21, 2021.
- Right of Way Location Survey, by Gary R. Summers, RLS No. 2554, dated June 22, 2009.
- Subdivision plats of Arborwalk - 4th Plat, Tracts "A-4" thru "K-4" and Holy Spirit Catholic Church Lot 1.

CERTIFICATION

CASEY'S MARKETING COMPANY AND
CHICAGO TITLE INSURANCE COMPANY

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2021 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1, 2, 3, 4, 5, 6(a), 8, 11 and 13 of Table A thereof. The field work was completed on January 5, 2022.

Date of Plat or Map: February 8, 2022

RICHARD T. SCHMIDT, P.S. 2628
SBB Engineering, LLC
101 South Kansas Avenue
Topeka, Kansas 66603
email: rick.schmidt@sbbeng.com
Corporate LS 2015034874



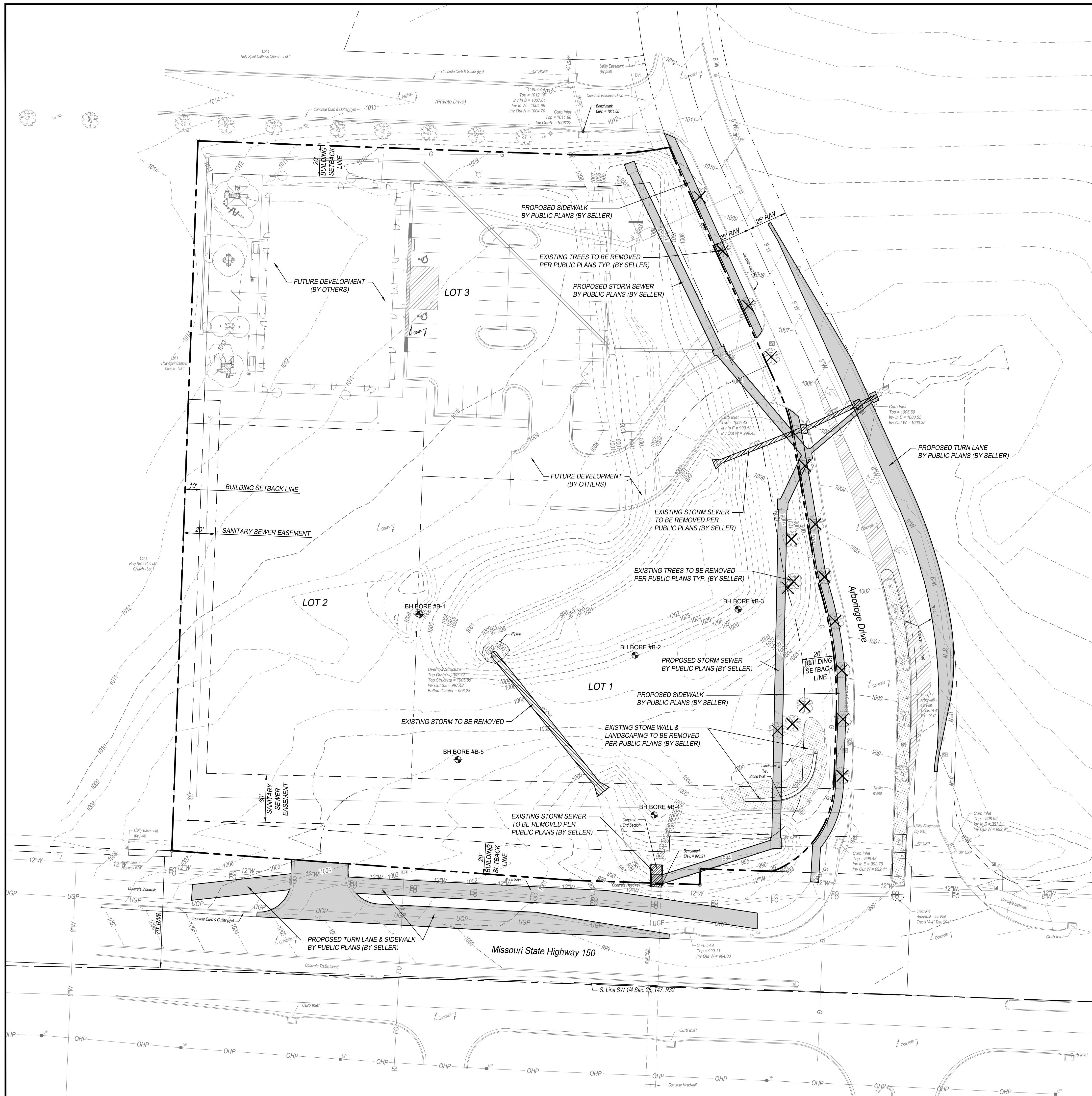
Rev.	By	Date	Description

PREPARED FOR:
Casey's Marketing Company
One SE Convenience Boulevard
Ankeny, Iowa 50021

SBB Engineering, LLC
transportation - site development - surveying
101 South Kansas Avenue
Topeka, Kansas 66603
Ph: (785) 215-9630 / www.sbbeng.com



SHEET TITLE	ALTA/NSPS LAND TITLE SURVEY
PROJECT LOCATION	Northwest Corner Of Highway 150 And Arbuckle Drive Lee Summit, Missouri 64081
SBB Proj. No.	21-288
Drawn by	JEM
Checked by	RS
Date	2/11/2022
Drawing No.	C-003
Sh. 1 of 2	



GENERAL NOTES:

1. ALL CONSTRUCTION METHODS AND MATERIALS USED IN THE CONSTRUCTION OF THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE IN ACCORDANCE WITH THE STANDARD TECHNICAL SPECIFICATIONS AND CURRENT REVISIONS ON FILE IN THE OFFICE OF THE CITY ENGINEER, CITY OF LEE SUMMIT, MISSOURI.
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6. ALL WORK WITHIN THE RIGHT-OF-WAY SHALL COMPLY WITH MODOT STANDARDS AND SPECIFICATIONS.

LEGEND:

- PROPOSED PUBLIC PLANS (BY SELLER)
- EXISTING TO BE REMOVED PER PUBLIC PLANS (BY SELLER)
- EXISTING TO BE REMOVED

BH BORE #X APPROXIMATE BORING LOCATIONS REFER TO GEOTECHNICAL REPORT BY KANSAS CITY TESTING AND ENGINEERING, LLC DATED SEPTEMBER 19, 2022. KCTE JOB #G20-22-107 FOR ADDITIONAL INFORMATION.

NOTES:

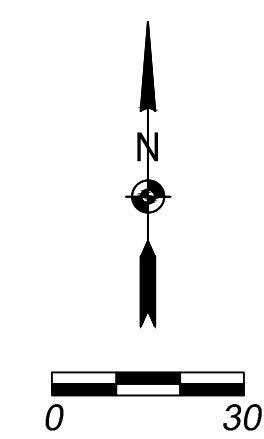
1. UTILITIES WERE FIELD LOCATED THROUGH MISSOURI ONE CALL TICKET NO. 213571736, DATED DECEMBER 23, 2021, AND THROUGH OBSERVABLE FIELD EVIDENCE. WATER LINE LOCATION AND SIZE IS SHOWN AS PER GIS INFORMATION PROVIDED BY THE CITY OF LEE SUMMIT.
2. ACCORDING TO THE FLOOD INSURANCE RATE MAP "FIRM" COMMUNITY MAP NUMBER 28095C0513G, EFFECTIVE DATE JANUARY 20, 2017, THIS PROPERTY IS IN FLOOD ZONE "X". AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

BENCHMARKS:

VERTICAL DATUM SHOWN ON THIS SURVEY IS BASED ON NAVD 88 DATUM.

CHISELED SQUARE AT CENTER FRONT FACE OF CURB INLET, LOCATED ON SOUTH SIDE OF PRIVATE DRIVE ALONG THE NORTH LINE OF SUBJECT TRACT. ELEV. = 1011.88

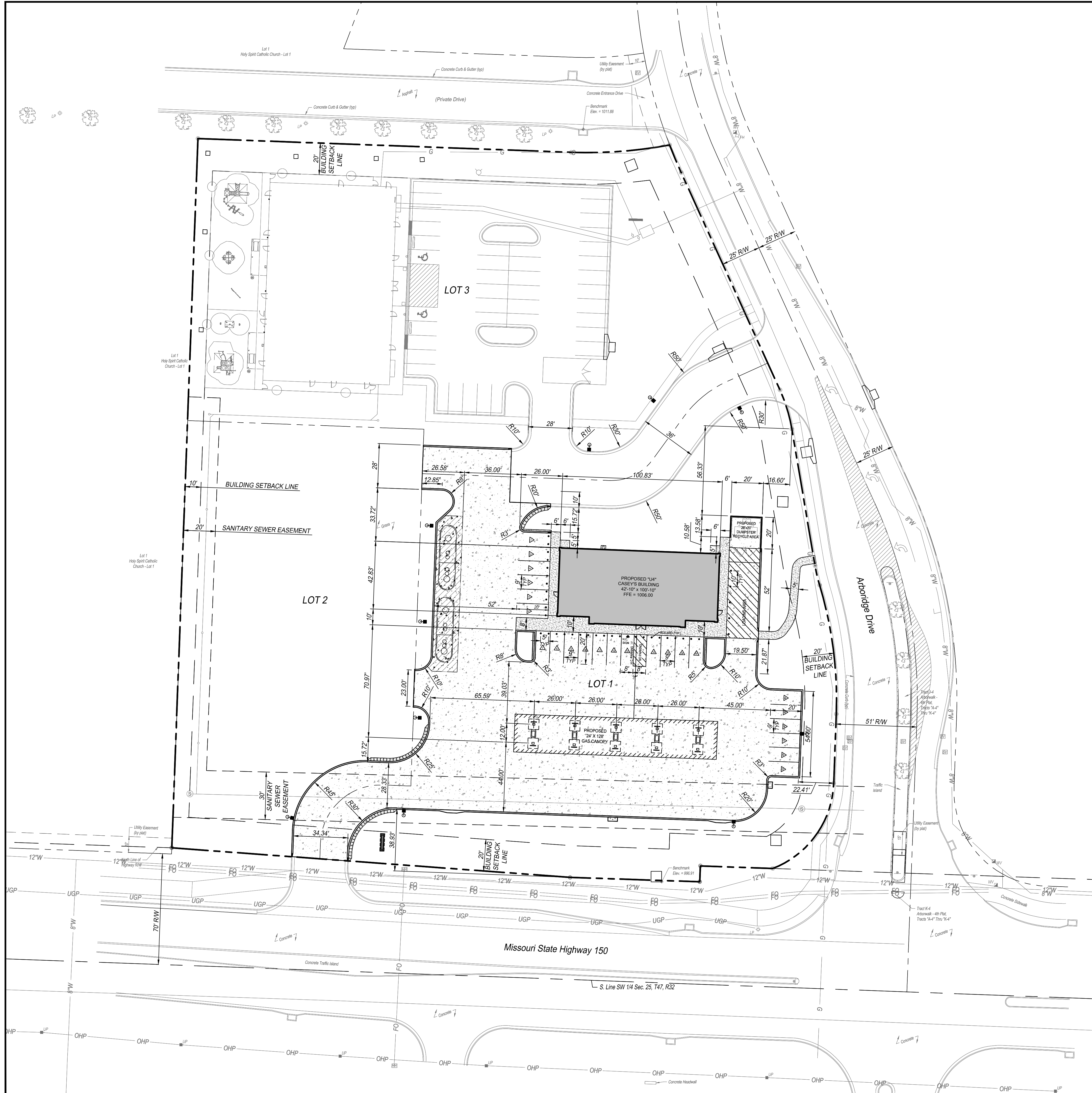
CHISELED SQUARE AT THE NORTHEAST CORNER OF CONCRETE HEADWALL FOR 6'X4' RCB, LOCATED NEAR THE SE CORNER OF SUBJECT TRACT. ELEV. = 996.91



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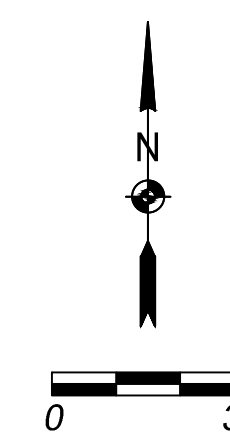
Casey's		Casey's	
CASEY'S CONSTRUCTION DIVISION One Convenience Blvd., P.O. Box 3001, Ankeny, IA 50021 515-965-6100			
PROJECT: LEE SUMMIT, MO #4291 HIGHWAY 150 & ARBORIDGE DRIVE "U4" - STYLE STORE	DATE: 08.11.23	REVISIONS:	DRAWING INFORMATION: EXISTING CONDITIONS / DEMOLITION PLAN
DRAWING INFORMATION: CONSTRUCTION DIVISION	DRAWN BY:	CHECKED BY:	C-100

SBB Proj. No. 21-288



GENERAL NOTES:

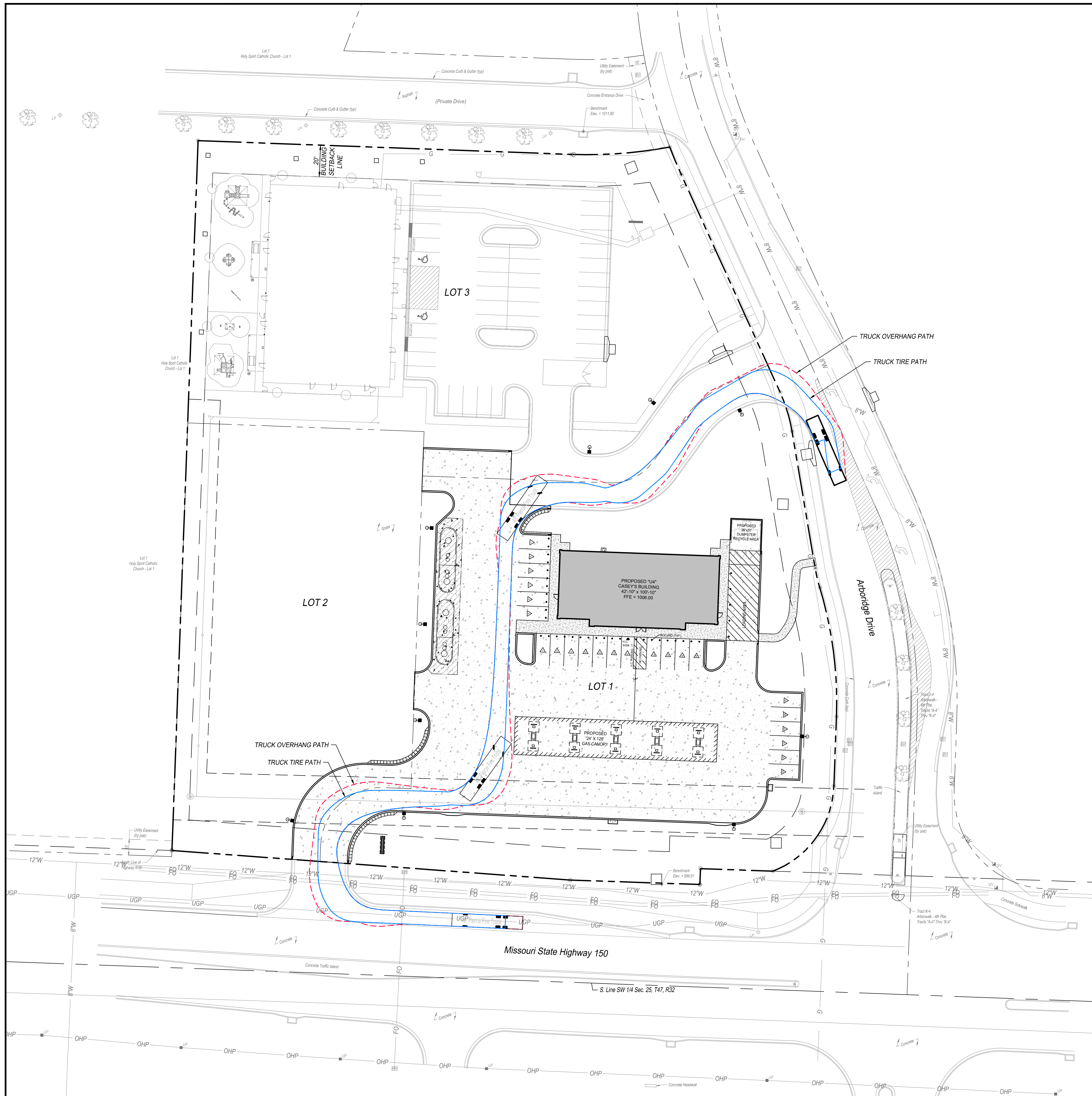
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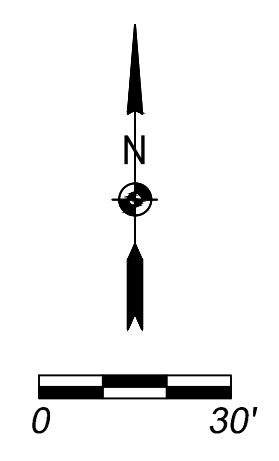
		Casey's CASEY'S CONSTRUCTION DIVISION One Convenience Blvd., P.O. Box 3001, Ankeny, IA 50021 515-965-6100	
PROJECT: LEE SUMMIT, MO #4291 HIGHWAY 150 & ARBORIDGE DRIVE "U4" - STYLE STORE	DATE: 08.11.23 REVISIONS:	DRAWING INFORMATION: OVERALL SITE PLAN	
DRAWING INFORMATION: CONSTRUCTION DIVISION DRAWN BY: _____ CHECKED BY: _____	C-101		

SBB Proj. No. 21-288



TRUCK OVERHANG PATH
TRUCK TIRE PATH

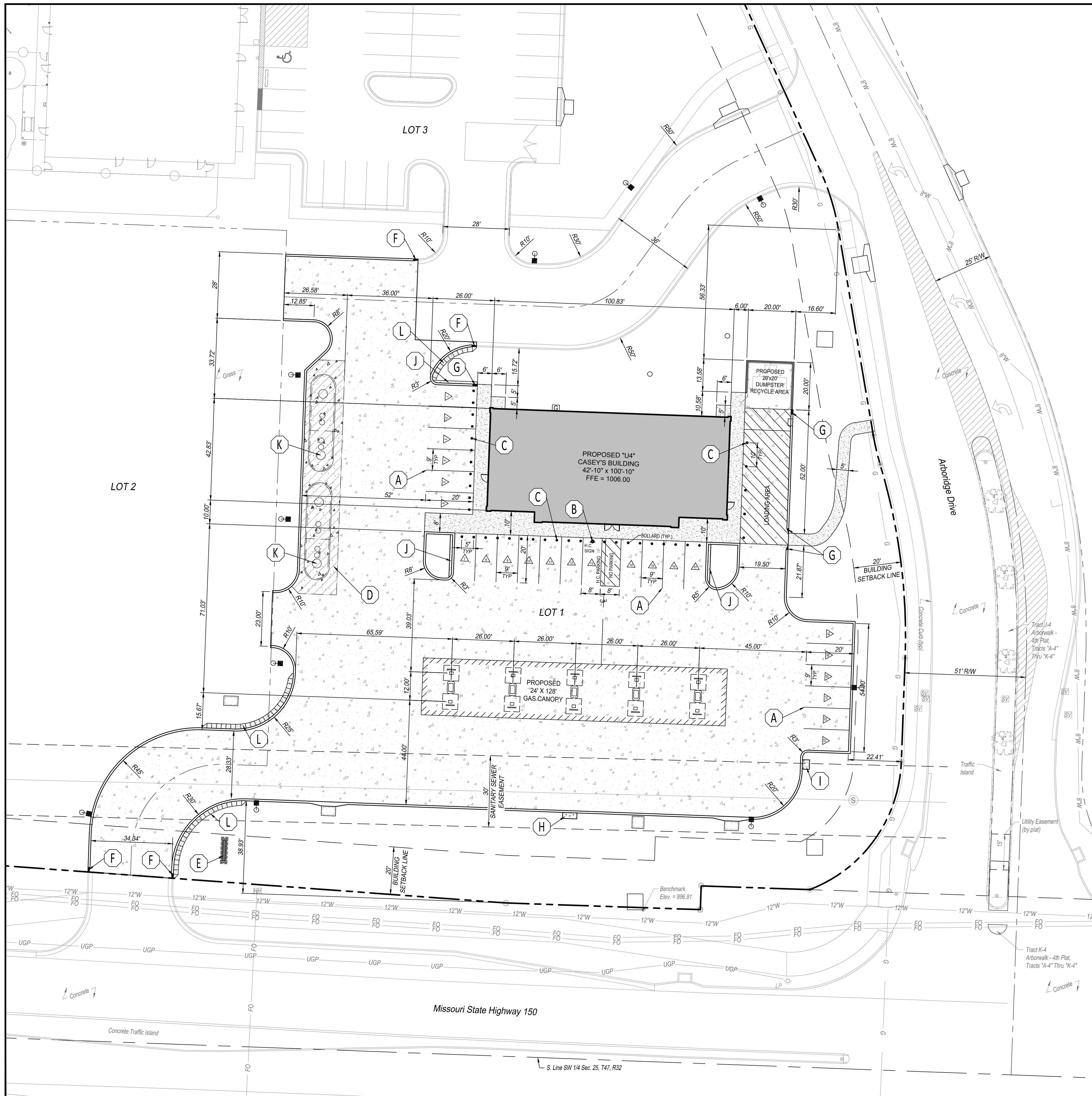
TRUCK OVERHANG PATH
TRUCK TIRE PATH



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		Casey's	
CASEY'S CONSTRUCTION DIVISION One Convenience Blvd., P.O. Box 3001, Ankeny, IA 50021 515-965-6100			
PROJECT:	LEE SUMMIT, MO #4291 HIGHWAY 150 & ARBORIDGE DRIVE "U4" - STYLE STORE	DATE: 08.11.23	DRAWING INFORMATION: FIRE TRUCK MOVEMENT PLAN
DRAWING INFORMATION:	CONSTRUCTION DIVISION	SCALE:	C-102
DRAWN BY:	DATE:	CHECKED BY:	

SBB Proj. No. 21-288



GENERAL NOTES:

1. ALL CONSTRUCTION METHODS AND MATERIALS USED IN THE CONSTRUCTION OF THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE IN ACCORDANCE WITH THE STANDARD TECHNICAL SPECIFICATIONS AND CURRENT REVISIONS ON FILE IN THE OFFICE OF THE CITY ENGINEER, CITY OF LEE SUMMIT, MISSOURI.
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6. ALL WORK WITHIN THE RIGHT-OF-WAY SHALL COMPLY WITH MODOT STANDARDS AND SPECIFICATIONS.

SITE PLAN KEY NOTES:

- | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| (A) PLACE PAVEMENT MARKING, 4" PAINTED, WHITE, 90° TO SIDEWALK (TYP.) OR CURB. | (G) CURB TRANSITION. (FULL HEIGHT TO ZERO HEIGHT CURB) |
| (B) INSTALL HANDICAP SIGN IN COMPLIANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. PLACE PAVEMENT MARKING, ACCESSIBLE PARKING SYMBOL, WHITE. REFER TO DETAILS 11 & 12 ON SHEET C-601. | (H) FUEL DISPENSER EMERGENCY SHUT-OFF SWITCH. REFER TO DETAIL 8 ON SHEET C-601. |
| (C) INSTALL BOLLARD (TYP.) REFER TO ARCHITECTURAL PLANS AND DETAIL 1 ON SHEET C-601. | (I) AIR COMPRESSOR BOX. REFER TO DETAIL 7 ON SHEET C-601. |
| (D) PAVEMENT SECTION ADJACENT TO UNDERGROUND TANKS. REFER TO DETAIL 4 ON SHEET C-602. | (J) PARKING LANDSCAPE ISLAND. REFER TO DETAIL 7 ON SHEET C-603. |
| (E) INSTALL MONUMENT SIGN. REFER TO SIGN PACKAGE. | (K) UGST MANHOLE. REFER TO DETAIL 6 ON SHEET C-602. |
| (F) 2' CURB TRANSITION. (FULL HEIGHT TO CURB (BY OTHERS)) | (L) LANDSCAPE PROTECTOR. REFER TO DETAIL 4 ON SHEET C-601. |

LEGEND:

- 6" CONCRETE PAVEMENT. REFER TO DETAIL 2 ON SHEET C-601 FOR CONCRETE PAVING.
- 8" REINFORCED CONCRETE PAVEMENT. REFER TO DETAIL 4 ON SHEET C-602 FOR PAVEMENT SECTION ADJACENT TO UNDERGROUND TANKS.
- 6" CONCRETE SIDEWALK. REFER TO DETAIL 1 ON SHEET C-601 FOR TYPICAL BUILDING SIDEWALK AND BOLLARD.
- CURB (MONOLITHIC). REFER TO DETAIL 2 ON SHEET C-601 FOR CURB.
- PROPOSED LIGHT POLE. REFER TO LIGHTING PLAN.

LEGAL DESCRIPTION:

ALL THAT PART OF THE SOUTHWEST QUARTER OF SECTION 25, TOWNSHIP 47, RANGE 32, IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, LYING NORTH OF THE NORTH LINE OF MISSOURI HIGHWAY 150, AS PRESENTLY ESTABLISHED, LYING WEST OF THE WEST LINE OF SW ARBORDRIVE DRIVE AS SHOWN ON THE PLAT OF ARBORWALK 4TH PLAT, A SUBDIVISION IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, AND LYING SOUTH AND EAST OF LOT 1, HOLY SPIRIT CATHOLIC CHURCH - LOT 1, A SUBDIVISION IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI.

TANK BALLAST NOTE:

CITY DOES NOT HAVE ANY REQUIREMENTS FOR DISCHARGING WATER FROM UNDERGROUND STORAGE TANKS.

NOTES:

1. UTILITIES WERE FIELD LOCATED THROUGH MISSOURI ONE CALL TICKET NO. 213571736, DATED DECEMBER 23, 2021, AND THROUGH OBSERVABLE FIELD EVIDENCE. WATER LINE LOCATION AND SIZE IS SHOWN AS PER GIS INFORMATION PROVIDED BY THE CITY OF LEE SUMMIT.
2. ACCORDING TO THE FLOOD INSURANCE RATE MAP "FIRM" COMMUNITY MAP NUMBER 29095C0513G, EFFECTIVE DATE JANUARY 20, 2017, THIS PROPERTY IS IN FLOOD ZONE "X", AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

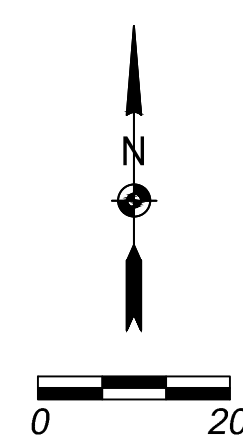
BENCHMARKS:

- VERTICAL DATUM SHOWN ON THIS SURVEY IS BASED ON NAVD 88 DATUM.
- CHISELED SQUARE AT CENTER FRONT FACE OF CURB INLET, LOCATED ON SOUTH SIDE OF PRIVATE DRIVE ALONG THE NORTH LINE OF SUBJECT TRACT. ELEV. = 1011.88
- CHISELED SQUARE AT THE NORTHEAST CORNER OF CONCRETE HEADWALL FOR 6"x4" RCB, LOCATED NEAR THE SE CORNER OF SUBJECT TRACT. ELEV. = 996.91

SITE DATA

LOT	EXISTING / PROPOSED ZONING	LOT AREA (SF)	LOT AREA (ACRES)	BUILDING AREA SF (ENVELOPE)	NUMBER OF FLOORS	PARKING REQUIRED	PARKING PROVIDED
LOT 1	M-150 CORRIDOR DEVELOPMENT / PLANNED MIXED USE	71,264	1.64	4,562 SF	1	23 SPACES	23 SPACES

ADA SPACES REQUIRED (VAN)	ADA SPACES PROVIDED (VAN)	PARKING LOT COVERAGE	TOTAL IMPERVIOUS COVERAGE	OPEN SPACE
1 SPACE	1 SPACE	36,054 SF	45,474 SF	25,790 SF



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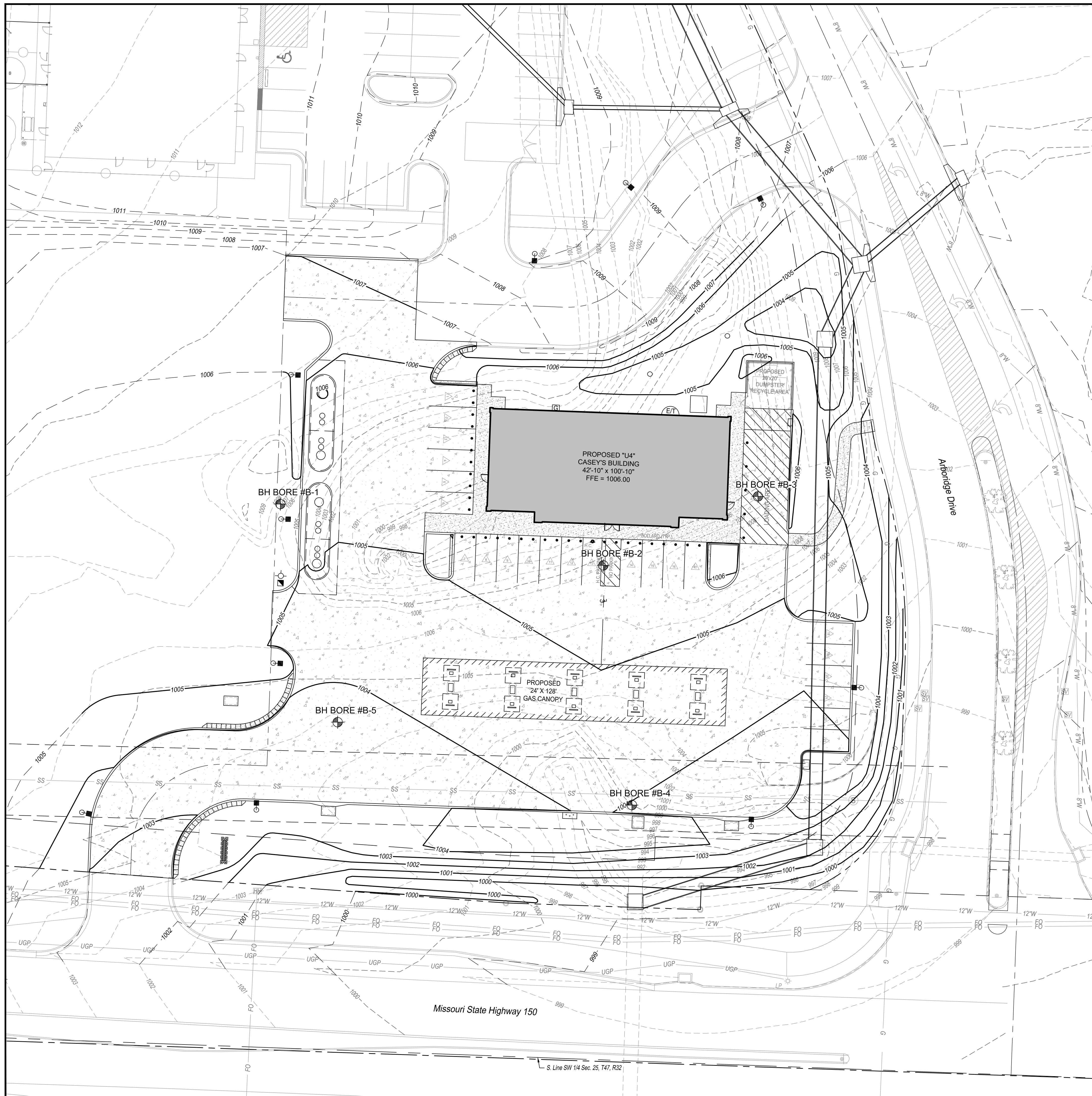
SBB Proj. No. 21-288

Casey's

CASEY'S CONSTRUCTION DIVISION
 One Convenience Blvd., P.O. Box 3001, Ankeny, IA 50021 515-965-6100

PROJECT: LEE SUMMIT, MO #4291 HIGHWAY 150 & ARBORDRIVE DRIVE "U4" - STYLE STORE	DATE: 08.11.23	DRAWING INFORMATION: SITE PLAN
DRAWING INFORMATION: CONSTRUCTION DIVISION	DRAWN BY: _____	CHECKED BY: _____

C-103



GENERAL NOTES:

1. ALL CONSTRUCTION METHODS AND MATERIALS USED IN THE CONSTRUCTION OF THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE IN ACCORDANCE WITH THE STANDARD TECHNICAL SPECIFICATIONS AND CURRENT REVISIONS ON FILE IN THE OFFICE OF THE CITY ENGINEER, CITY OF LEE SUMMIT, MISSOURI.
2. UTILITIES WERE FIELD LOCATED THROUGH MISSOURI ONE CALL. THE LOCATION OF ALL OVERHEAD AND UNDERGROUND UTILITIES MAY VARY FROM WHAT IS INDICATED IN THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE UTILITY OWNER TO LOCATE AND FLAG ALL UNDERGROUND UTILITIES WHETHER INDICATED OR NOT. NO EXCAVATION WILL BE PERMITTED IN THE AREA OF UNDERGROUND UTILITIES UNTIL ALL SUCH UTILITIES HAVE BEEN LOCATED AND IDENTIFIED TO THE SATISFACTION OF ALL PARTIES AND THEN ONLY WITH EXTREME CARE TO AVOID ANY POSSIBILITY OF DAMAGE TO THE UTILITY.
3. ALL PERMITS AND FEES NECESSARY TO CONSTRUCT THE PROJECT IS THE RESPONSIBILITY OF THE CONTRACTOR UNLESS OTHERWISE NOTED.
4. UNLESS OTHERWISE SPECIFIED, ALL DISTURBED AREAS THAT ARE NON-HARDSCAPED SHALL BE EITHER LANDSCAPED OR SEEDED AND FERTILIZED.
5. ALL PAVEMENT REMOVAL AREAS SHALL BE SAW CUT TO FORM A STRAIGHT AND UNIFORM LINE.
6. ALL WORK WITHIN THE RIGHT-OF-WAY SHALL COMPLY WITH MODOT STANDARDS AND SPECIFICATIONS.

LEGEND:

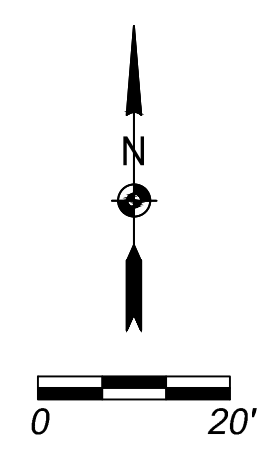
- 1005 — PROPOSED CONTOURS
- - - 1005 - - - PROPOSED CONTOURS BY OTHERS
- - - 1004 - - - EXISTING CONTOURS
- >-X-X% SLOPE FLOW DIRECTION

LIST OF ABBREVIATIONS:

- EX - EXISTING
- FFE - FINISHED FLOOR ELEVATION
- TC - TOP OF CURB
- TG - TOP OF GROUND
- TI - TOP OF INLET
- TP - TOP OF PAVEMENT
- TPE - TOP OF EXISTING PAVEMENT
- TS - TOP OF SIDEWALK
- BW - BOTTOM OF WALL
- TW - TOP OF WALL
- TM - TOP OF MANHOLE
- TF - TOP OF FOOTING

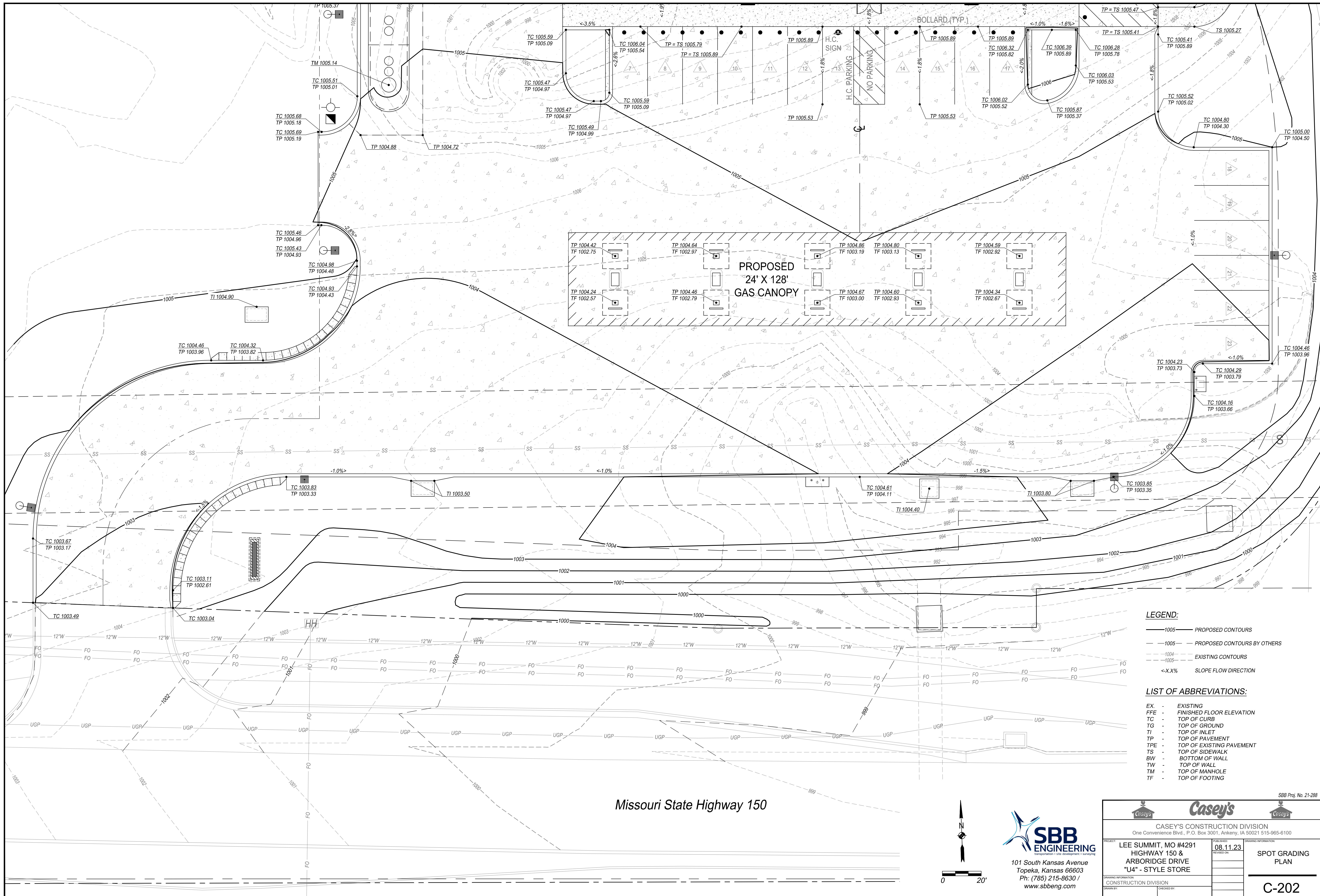
BH BORE # - APPROXIMATE BORING LOCATIONS. REFER TO GEOTECHNICAL REPORT BY KANSAS CITY TESTING AND ENGINEERING, LLC DATED SEPTEMBER 19, 2022. KCTE JOB #G20-22-107 FOR ADDITIONAL INFORMATION.

SITE GRADING
 ANTICIPATE OVER EXCAVATION IN SOME AREAS OF 2-3 FEET DUE TO POOR SOIL CONDITION.
 UNDERGROUND STORAGE TANKS
 HARD ROCK EXCAVATION MAY BE PRESENT IN THE BOTTOM OF THE PIT; PERCHED WATER MAY ALSO BE ENCOUNTERED ABOVE ROCK STRATA.



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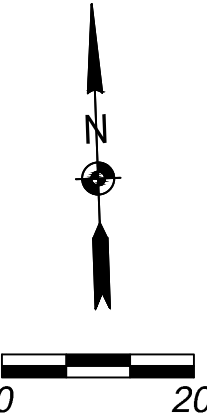
		SBB Proj. No. 21-288	
CASEY'S CONSTRUCTION DIVISION One Convenience Blvd., P.O. Box 3001, Ankeny, IA 50021 515-965-6100			
PROJECT:	LEE SUMMIT, MO #4291 HIGHWAY 150 & ARBORIDGE DRIVE "U4" - STYLE STORE	DATE:	08.11.23
DRAWING INFORMATION:	CONSTRUCTION DIVISION	CHECKED BY:	
			GRADING PLAN
			C-201



Missouri State Highway 150

- LEGEND:**
- 1005 — PROPOSED CONTOURS
 - - - 1005 - - - PROPOSED CONTOURS BY OTHERS
 - - - 1004 - - - EXISTING CONTOURS
 - <-X.X% SLOPE FLOW DIRECTION

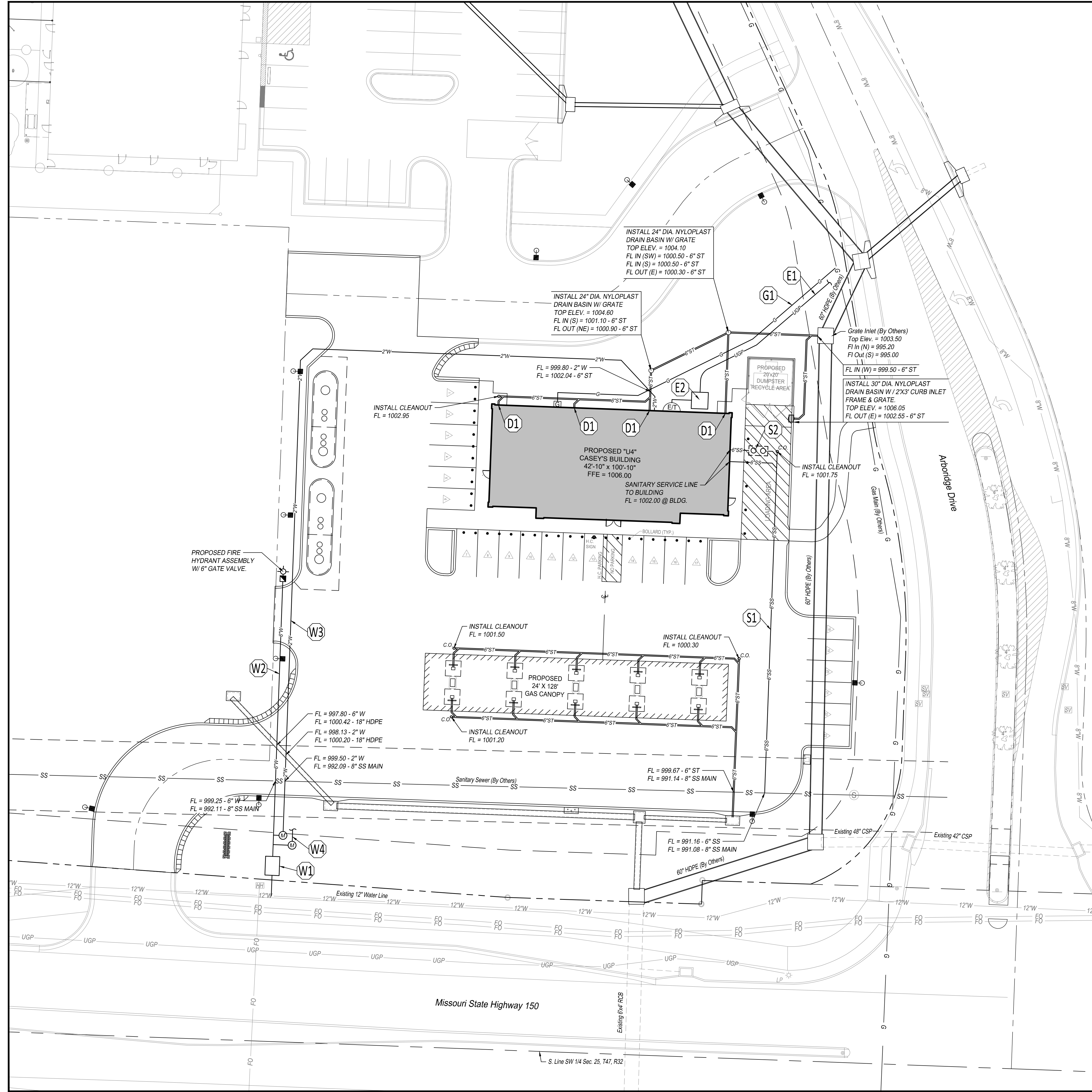
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 - TF - TOP OF FOOTING



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PROJECT: LEE SUMMIT, MO #4291 HIGHWAY 150 & ARBORIDGE DRIVE "U4" - STYLE STORE	DATE: 08.11.23 REVISIONS:
DRAWING INFORMATION: CONSTRUCTION DIVISION	DRAWING INFORMATION: SPOT GRADING PLAN
DRAWN BY:	CHECKED BY:
C-202	

SBB Proj. No. 21-288



GENERAL NOTES:

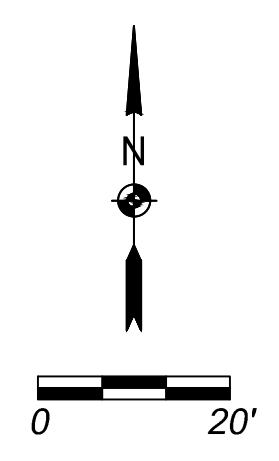
1. ALL CONSTRUCTION METHODS AND MATERIALS USED IN THE CONSTRUCTION OF THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE IN ACCORDANCE WITH THE STANDARD TECHNICAL SPECIFICATIONS AND CURRENT REVISIONS ON FILE IN THE OFFICE OF THE CITY ENGINEER, CITY OF LEE SUMMIT, MISSOURI.
2. UTILITIES WERE FIELD LOCATED THROUGH MISSOURI ONE CALL. THE LOCATION OF ALL OVERHEAD AND UNDERGROUND UTILITIES MAY VARY FROM WHAT IS INDICATED IN THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE UTILITY OWNER TO LOCATE AND FLAG ALL UNDERGROUND UTILITIES WHETHER INDICATED OR NOT. NO EXCAVATION WILL BE PERMITTED IN THE AREA OF UNDERGROUND UTILITIES UNTIL ALL SUCH UTILITIES HAVE BEEN LOCATED AND IDENTIFIED TO THE SATISFACTION OF ALL PARTIES AND THEN ONLY WITH EXTREME CARE TO AVOID ANY POSSIBILITY OF DAMAGE TO THE UTILITY.
3. ALL PERMITS AND FEES NECESSARY TO CONSTRUCT THE PROJECT IS THE RESPONSIBILITY OF THE CONTRACTOR UNLESS OTHERWISE NOTED.
4. UNLESS OTHERWISE SPECIFIED, ALL DISTURBED AREAS THAT ARE NON-HARDSCAPED SHALL BE EITHER LANDSCAPED OR SEEDED AND FERTILIZED.
5. ALL PAVEMENT REMOVAL AREAS SHALL BE SAW CUT TO FORM A STRAIGHT AND UNIFORM LINE.
6. ALL WORK WITHIN THE RIGHT-OF-WAY SHALL COMPLY WITH MODOT STANDARDS AND SPECIFICATIONS.

SITE PLAN KEY NOTES:

- E1** PLACE ELECTRICAL AND TELEPHONE ENTRY INTO BUILDING. (RE: BUILDING ELECTRICAL PLAN FOR SECONDARY CONDUIT ROUTING INSIDE BUILDING TO ELECTRIC METERS).
ELECTRIC: 3 PHASE, 800 AMP, 120/208 VOLTS, 4 WIRE.
TELEPHONE: 20 PAIR, 8 LINES.
- E2** PROPOSED LOCATION OF TRANSFORMER PAD. CONTRACTOR TO VERIFY EXACT LOCATION AND SIZE WITH POWER COMPANY PRIOR TO INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF CONCRETE PAD, CONDUIT AND PIPE BOLLARDS AS REQUIRED BY THE ELECTRIC COMPANY. CONTRACTOR SHALL COORDINATE SAID WORK WITH THE ELECTRIC COMPANY. FOLLOW ALL ELECTRIC COMPANY'S SERVICE STANDARDS.
- G1** INSTALL GAS LINE TO BUILDING ENTRY WITH 1 GAS METER. SIZE OF GAS MAIN SHALL BE AS DETERMINED BY UTILITY OR AS SHOWN ON BUILDING PLANS. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH GAS COMPANY REGARDING THE SIZE AND INSTALLATION OF GAS SERVICE LINE AND METER.
- W1** CONNECT TO EXISTING 12" WATERLINE. INSTALL 6" WATER LINE AND INSTALL VAULT FOR DOUBLE DETECTOR CHECK. REFER TO DETAIL WAT-12 ON SHEET C-604.
- W2** INSTALL 6" FIRE LINE TO FIRE HYDRANT ASSEMBLY.
- W3** CONNECT TO 6" FIRE LINE. INSTALL 1 1/2" METER SETTING AND METER PIT. INSTALL 2" DOMESTIC WATER LINE TO BUILDING.
- W4** CONNECT TO 6" FIRE LINE. INSTALL 1 1/2" METER SETTING AND METER PIT FOR IRRIGATION SERVICE.
- D1** TYPICAL STORM WATER DRAIN LINE FROM ROOF OR LANDSCAPE DRAIN. SEE BUILDING PLANS CONNECTION LOCATIONS. DRAIN LINES SHALL BE PVC SDR 35 OR HDPE N-12. MINIMUM SLOPE SHALL BE 1.0%
- S1** 6" SANITARY SEWER SERVICE LINE PIPE TO BE SCHEDULE 40 PVC AND MAINTAIN A MINIMUM SLOPE OF 2.0%.
- S2** GREASE TRAP TO BE PROCURED AND INSTALLED BY CONTRACTOR. GREASE TRAP TO BE PROCURED FROM SCHIER PRODUCTS, UTILIZE THE FOLLOWING URL: [HTTPS://SCHIERPRODUCTS.COM/STOCKING-DEALERS](https://schierproducts.com/stocking-dealers). CONTACT SCHIER PRODUCTS WITH ANY QUESTIONS OR CASEY'S TEAM MEMBER IF THERE IS AN ISSUE.

LEGEND:

8"W	EXISTING WATERLINE
12"W	EXISTING UNDERGROUND POWER
UGP	EXISTING UNDERGROUND POWER
FO	EXISTING FIBER OPTIC LINE
Existing Storm Sewer	EXISTING STORM SEWER
G	PROPOSED GAS LINE (BY OTHERS)
SS	PROPOSED SANITARY SEWER (BY OTHERS)
G	PROPOSED WATERLINE
G	PROPOSED GASLINE
6"SS	PROPOSED SANITARY SEWER
UGP	PROPOSED UNDERGROUND POWER
	PROPOSED STORM SEWER



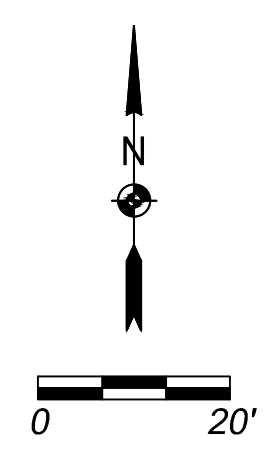
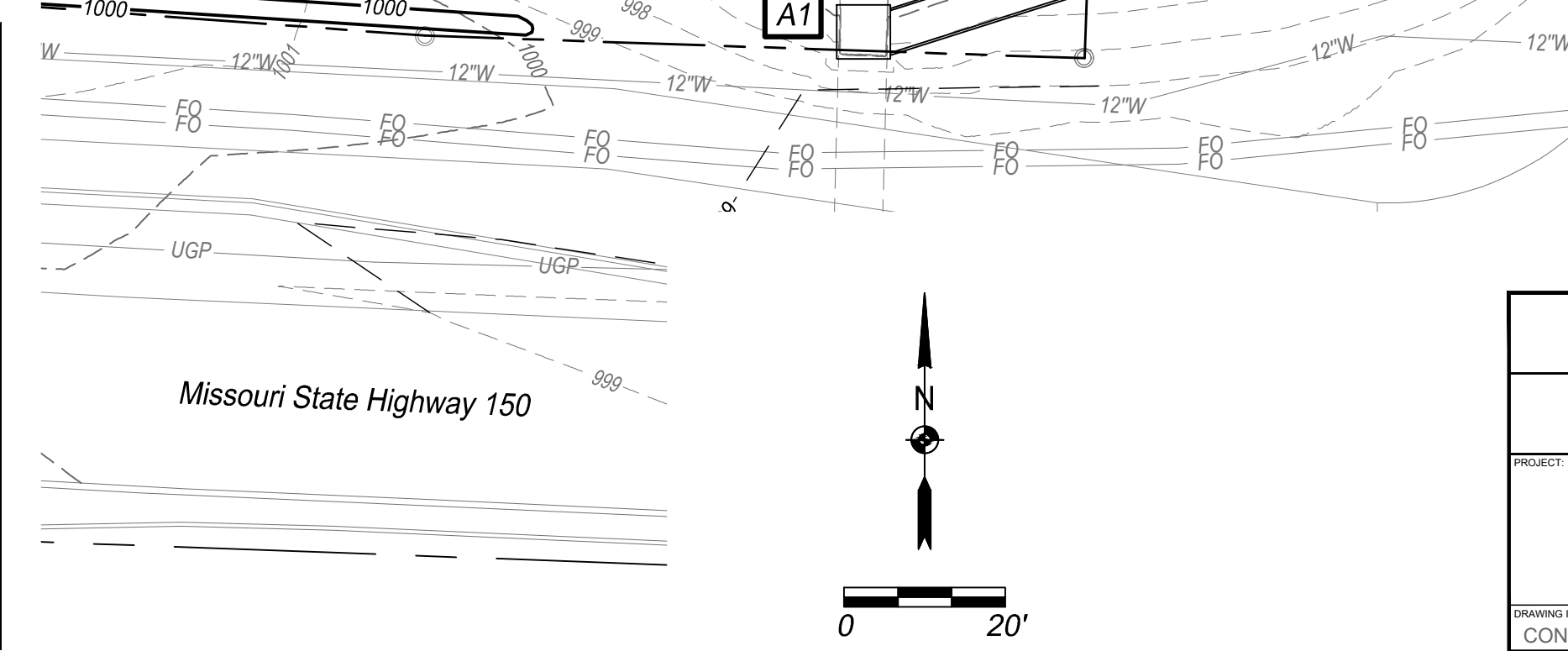
SBB Proj. No. 21-288

Casey's	
CASEY'S CONSTRUCTION DIVISION One Convenience Blvd., P.O. Box 3001, Ankeny, IA 50021 515-965-6100	
PROJECT: LEE SUMMIT, MO #4291 HIGHWAY 150 & ARBRIDGE DRIVE "U4" - STYLE STORE	DRAWING INFORMATION DATE: 08.11.23 REVISIONS: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000
DRAWING INFORMATION CONSTRUCTION DIVISION	
C-301	



- LEGEND:**
- FLOW PATH DIRECTION (TYP.)
 - DRAINAGE AREA BOUNDARY
 - DENOTES DRAINAGE AREA
 - DENOTES STRUCTURE NUMBER / LOCATION ID

RUNOFF						PIPE FLOW DATA														
STRUC ID	INCREMENTAL		CUMULATIVE		SYSTEM TIME OF CONCENTRATION "Tc" AT STRUCTURE (MIN)	RAINFALL INTENSITY "I _{2/10} /I ₁₀₀ " (IN/HR)	ANTECEDENT PRECIPITATION FACTOR "K ₂ /K ₁₀ /K ₁₀₀ "	RUNOFF "Q ₂ /Q ₁₀ /Q ₁₀₀ "	UPSTREAM STRUCTURE NUMBER	DOWNSTREAM STRUCTURE NUMBER	DIAMETER "D" (IN)	LENGTH "L" (FT)	UPSTREAM INVERT ELEVATION	DOWNSTREAM INVERT ELEVATION	SLOPE "S" (FT/FT)	TRAVEL TIME IN PIPE "TT" (MIN)	VELOCITY FULL V _p (FPS)	RUNOFF "Q ₂ /Q ₁₀ /Q ₁₀₀ "	FULL FLOW Q (CFS)	
	RUNOFF COEFFICIENT "C"	AREA "A" (AC.)	C X A	AREA "A" (AC.)																C X A
A4	0.81	1.33	1.08	1.33	1.08	5.0	5.41	1.00	5.8	A4	A3	18	61.89	1000.75	1000.00	0.0121	0.1	7	5.8	12.5
																			7.9	
																			13.9	
A3	0.81	0.74	0.60	2.07	1.68	5.0	5.41	1.00	9.1	A3	A2	24	130.31	999.80	998.50	0.0100	0.3	8	9.1	24.5
																			12.3	
																			21.6	
A2	0.81	0.00	0.00	2.40	1.94	5.0	5.41	1.00	10.5	A2	A1	24	33.46	995.90	994.40	0.0448	0.0	17	10.5	51.9
																			14.3	
																			25.1	
B1	0.81	0.33	0.27	0.33	0.27	5.0	5.41	1.00	1.4	B1	A2	15	39.36	999.35	998.50	0.0216	0.1	8	1.4	10.3
																			2.0	
																			3.4	

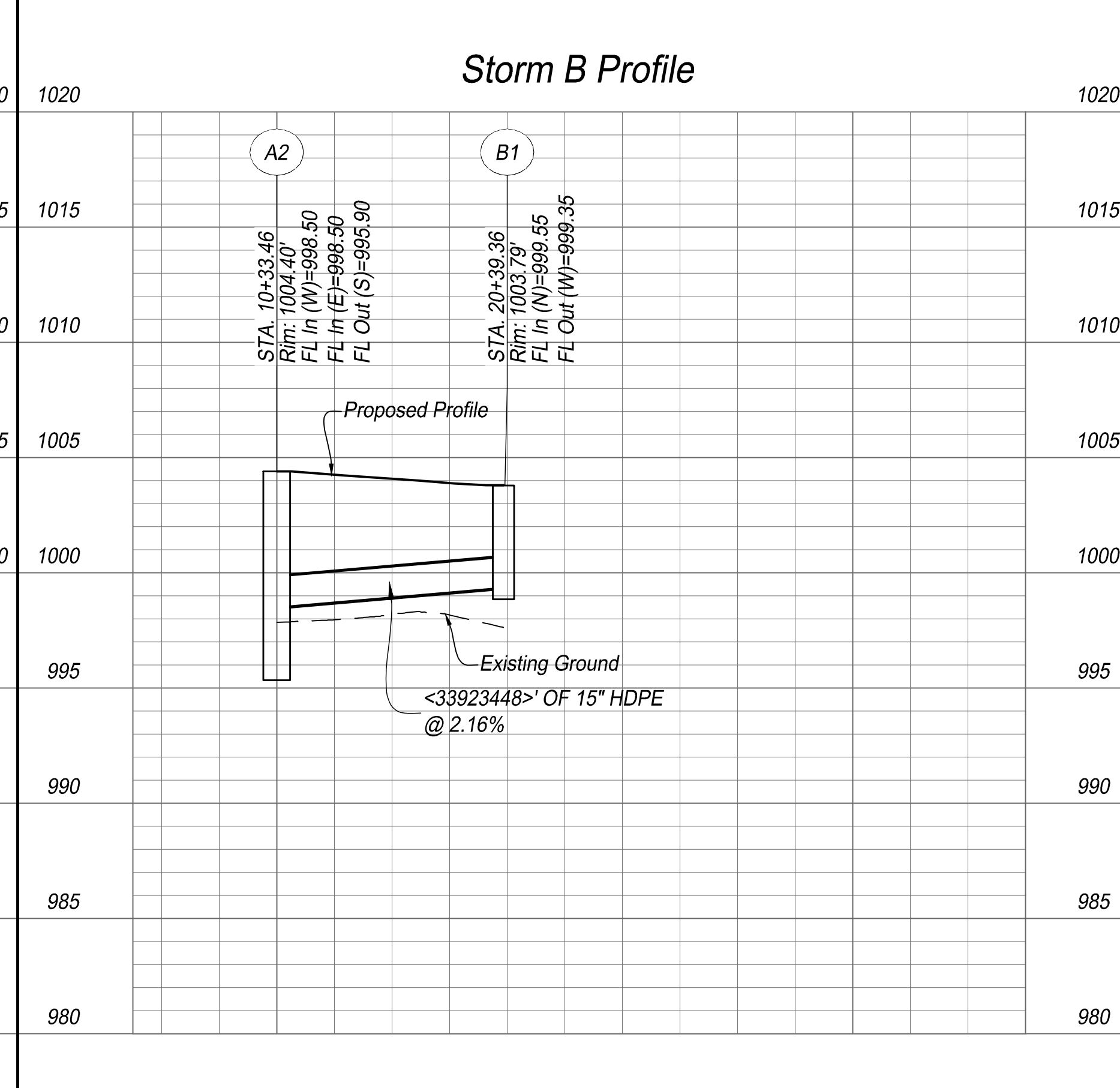
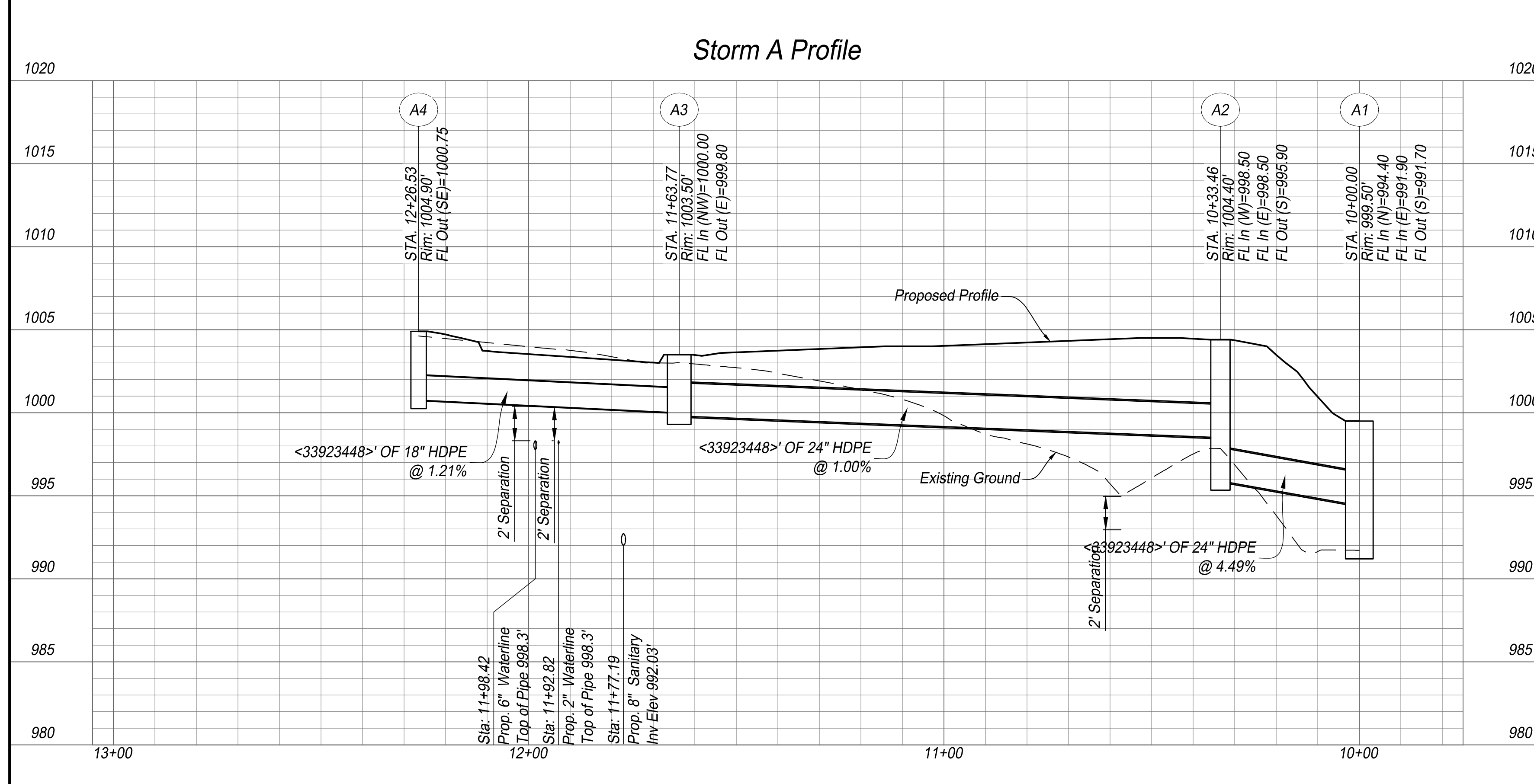
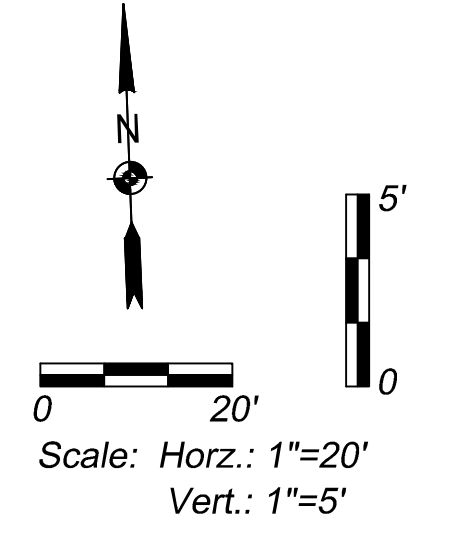
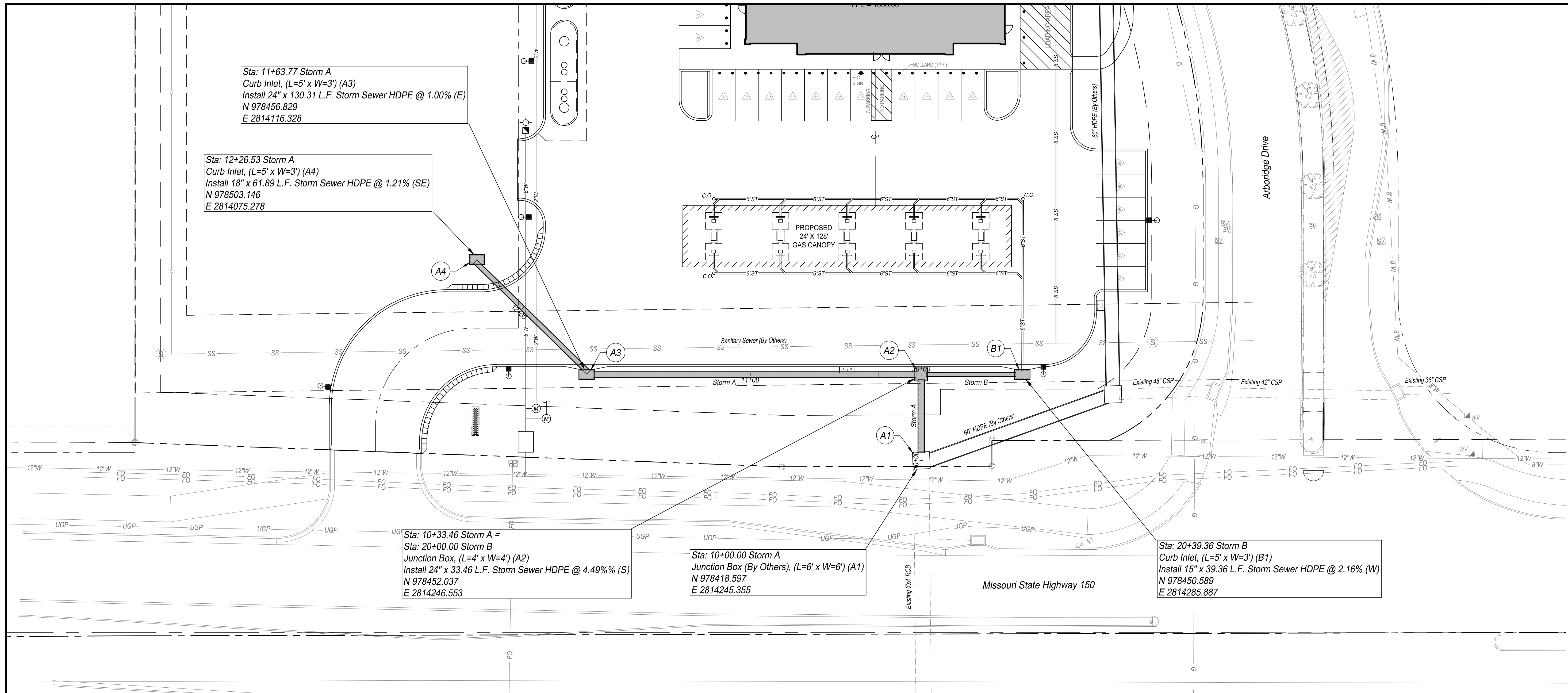


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Casey's
CASEY'S CONSTRUCTION DIVISION
One Convenience Blvd., P.O. Box 3001, Ankeny, IA 50021 515-965-6100

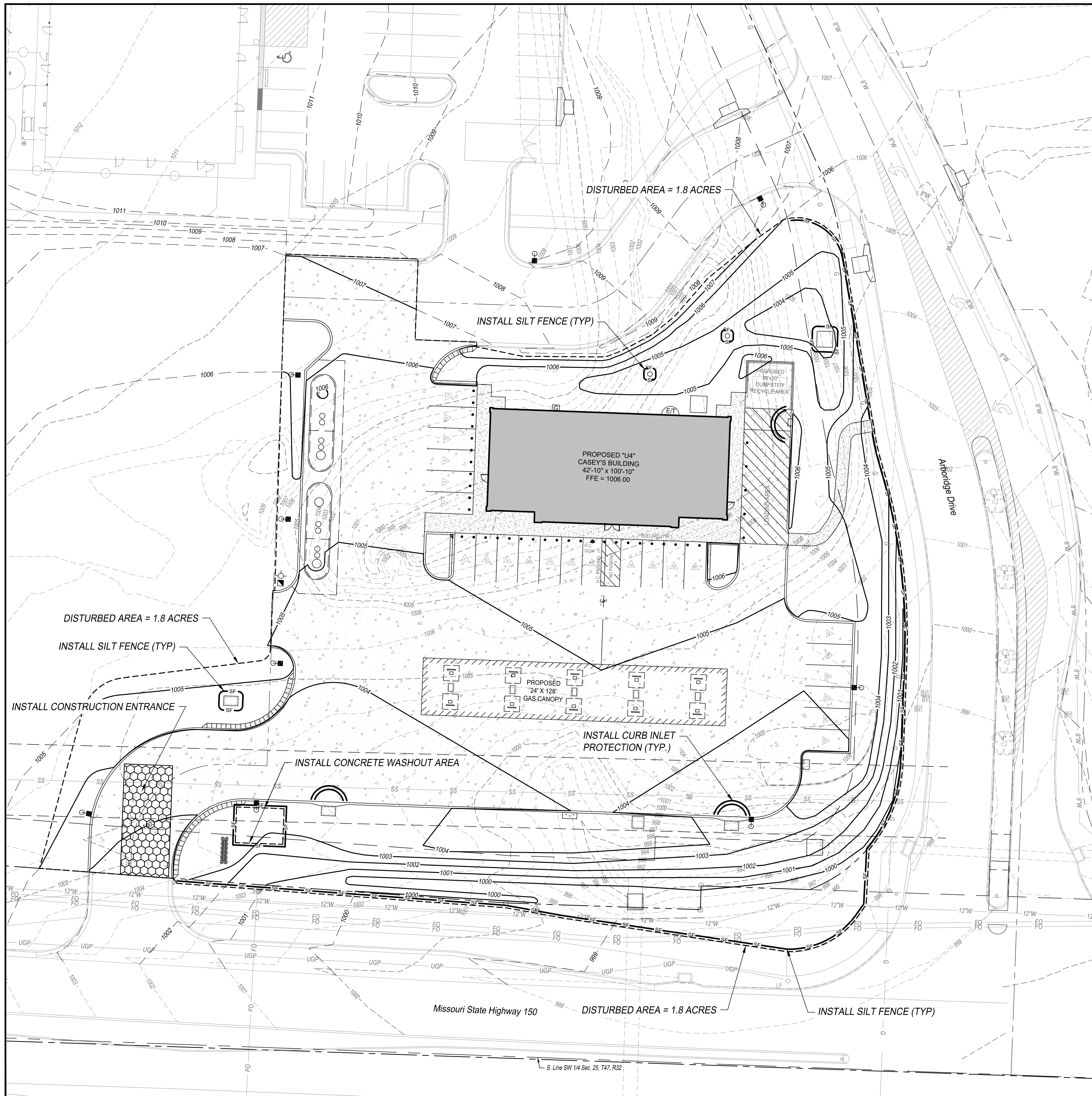
PROJECT: LEE SUMMIT, MO #4291 HIGHWAY 150 & ARBORIDGE DRIVE "U4" - STYLE STORE	DATE: 08.11.23	DRAWING INFORMATION: DRAINAGE MAP
DRAWING INFORMATION: CONSTRUCTION DIVISION	DRAWN BY:	CHECKED BY:

C-302



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Casey's
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 One Convenience Blvd., P.O. Box 3001, Ankeny, IA 50021 515-965-6100
 PROJECT: LEE SUMMIT, MO #4291 HIGHWAY 150 & ARBORIDGE DRIVE "U4" - STYLE STORE
 DRAWING INFORMATION: 08.11.23
 CONSTRUCTION DIVISION
C-303



GENERAL NOTES:

1. THE LOCATION OF ALL OVERHEAD AND UNDERGROUND UTILITIES MAY VARY FROM WHAT IS INDICATED IN THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE UTILITY OWNER TO LOCATE AND FLAG ALL UNDERGROUND UTILITIES WHETHER INDICATED OR NOT. NO EXCAVATION WILL BE PERMITTED IN THE AREA OF UNDERGROUND UTILITIES UNTIL ALL SUCH UTILITIES HAVE BEEN LOCATED AND IDENTIFIED TO THE SATISFACTION OF ALL PARTIES AND THEN ONLY WITH EXTREME CARE TO AVOID ANY POSSIBILITY OF DAMAGE TO THE UTILITY.
2. ALL DISTURBED AREAS THAT ARE NOT PAVED OR LANDSCAPED SHALL BE SEED, FERTILIZED AND MULCHED IN ACCORDANCE WITH THE SPECIFICATIONS. SOIL STABILIZATION SHALL BE COMPLETED WITHIN FOURTEEN (14) DAYS OF CLEARING OR INACTIVITY IN CONSTRUCTION.

EROSION CONTROL GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING, MONITORING AND MAINTAINING BEST MANAGEMENT PRACTICES (BMP'S) AT ALL TIMES DURING THE CONSTRUCTION ON THIS PROPERTY.
2. PRIOR TO COMMENCEMENT OF EARTHWORK OPERATIONS, CONTRACTOR SHALL INSTALL PERIMETER WATTLES AND CONSTRUCTION ENTRANCE AS SHOWN ON THE PLAN. THE INLET PROTECTION AND ADDITIONAL WATTLES WITHIN WORK AREA SHALL BE INSTALLED IMMEDIATELY AFTER INSTALLATION OF THE INLETS AND COMPLETION OF ROUGH GRADING.
3. EROSION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED BY THE CONTRACTOR NOT LESS THAN WEEKLY OR WITHIN 24 HOURS AFTER A RAINFALL EVENT OF 0.5 INCHES OR MORE. MAINTENANCE SHALL INCLUDE BUT NOT BE LIMITED TO SEDIMENT REMOVAL AND SILT FENCE REPAIR AND/OR REPLACEMENT. FIELD ADJUSTMENTS MAY BE MADE AS NECESSARY TO ENSURE OPTIMAL PERFORMANCE.
4. CONTRACTOR SHALL CLEAR ALL SURROUNDING PARKING LOTS AND STREETS OF ANY TRACKED DEBRIS BY SWEEPING OR SCRAPING THE EXISTING PAVEMENT BY THE END OF EACH WORKDAY AND THE CONTRACTOR SHALL CLEAN UP SOIL WASHED OFF THE CONSTRUCTION SITE AFTER A STORM BY THE END OF THE NEXT WORKDAY.
5. DURING ALL SOIL DISTURBING ACTIVITIES, THE CONTRACTOR WILL TAKE APPROPRIATE STEPS USING ACCEPTED CONSTRUCTION METHODS TO MINIMIZE THE TIME OF EXPOSURE OF UNPROTECTED SOIL AND OTHER CONSTRUCTION MATERIALS TO RAINFALL.
6. CONTRACTOR SHALL KEEP A WRITTEN LOG OF WHEN CONSTRUCTION ACTIVITIES BEGIN, EROSION AND SEDIMENT CONTROLS ARE INSTALLED, INSPECTED AND REPAIRED.
7. EROSION AND SEDIMENT CONTROL MEASURES SHALL NOT BE REMOVED UNTIL GRASS COVER HAS BEEN ESTABLISHED OR AS DIRECTED BY ENGINEER.
8. ALL AREAS SHALL BE GRADED TO FINISHED GRADE PRIOR TO SEEDING AND MULCHING. ALL AREAS NOT PART OF THE HARDSCAPE OR OTHER NOTED LANDSCAPING SHALL BE PERMANENTLY SEED, FERTILIZED AND MULCHED.
9. ALL WATTLES SHALL BE STRAW WATTLE WS-12 AS MANUFACTURED BY NORTH AMERICAN GREEN, OR APPROVED EQUAL. THE WATTLES SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR MAY USE WATTLES AND SILT FENCE INTERCHANGEABLY IN AREAS IDENTIFIED ON THE DRAWINGS.
10. THE CONTRACTOR HAS THE OPTION TO MODIFY THE LOCATION OF THE CONSTRUCTION ENTRANCE TO FIT THE PREFERRED WORK PATTERN.

WASTE DISPOSAL:

1. WASTE MATERIALS: ANY WASTE AND OTHER UNUSABLE MATERIALS WILL BE REMOVED FROM THE SITE ON A REGULAR BASIS AND PROPERLY DISPOSED OF IN AN APPROVED SITE.
2. CHEMICAL WASTE: ALL CHEMICAL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A TIGHTLY SEALED METAL OR OTHER CHEMICAL RESISTANT CONTAINER. THE CONTAINER WILL MEET ALL LOCAL AND ANY STATE SOLID WASTE MANAGEMENT REGULATIONS. THE WASTE MATERIALS AND ALL DISPOSABLE MATERIALS WILL BE TRANSPORTED TO A COMMERCIAL CHEMICAL DISPOSAL FACILITY CAPABLE OF EITHER RECYCLING OR PROPERLY DISPOSING OF THE POLLUTANTS IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. THE STATE WASTE MANAGEMENT SECTION CONTACT NUMBER IS (573) 751-3176.
3. HAZARDOUS WASTE: ALL HAZARDOUS WASTE MATERIALS, SUCH AS OIL FILTERS, PETROLEUM PRODUCTS, EQUIPMENT MAINTENANCE FLUIDS AND PAINTS, SHALL NOT BE STORED ON SITE AND WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE AND/OR FEDERAL REGULATIONS. IF THERE ARE QUESTIONS REGARDING THE PROPER HANDLING OF HAZARDOUS WASTES THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE MISSOURI DEPARTMENT OF NATURAL RESOURCES HAZARDOUS WASTE PROGRAM AT (573) 751-3176.
4. SANITARY WASTE: PORTABLE TOILET FACILITIES WILL BE PROVIDED ON THE PROJECT SITE AND SERVICED BY THE PROVIDER ON A REGULAR BASIS.

MATERIAL MANAGEMENT PRACTICES:

GOOD HOUSEKEEPING: THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ON-SITE DURING CONSTRUCTION.

1. ALL MATERIALS STORED ON-SITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN ORIGINAL CONTAINERS IF APPROPRIATE.
2. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABELS.
3. MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.

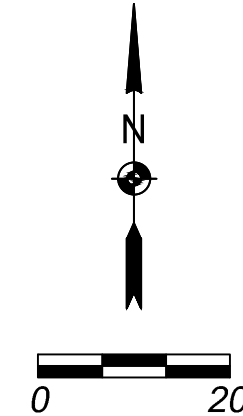
SPILL PREVENTION:

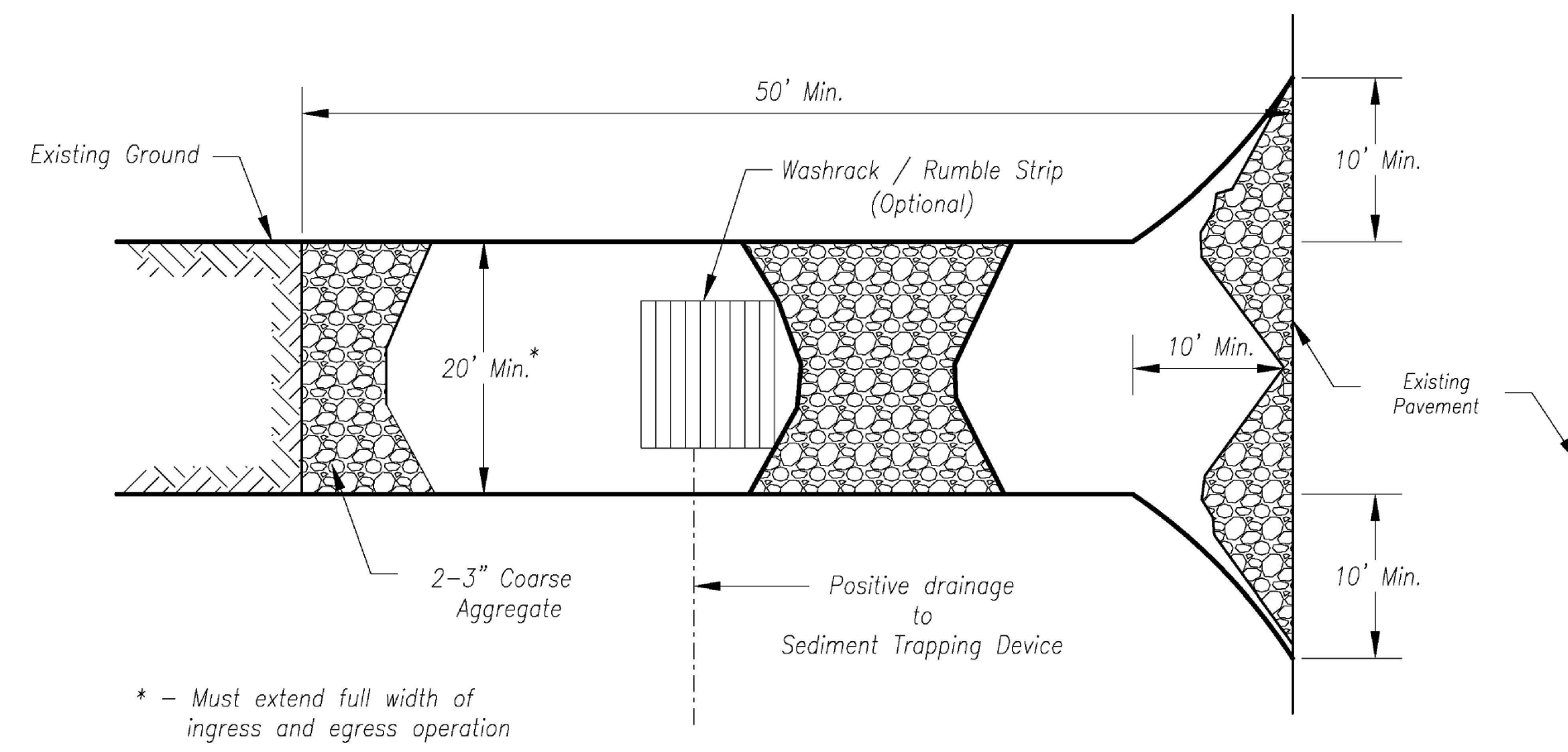
1. PETROLEUM PRODUCTS: ALL ON-SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED.
2. FERTILIZERS: FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. FERTILIZER SHALL NOT BE STORED ON-SITE.
3. CONCRETE TRUCKS: CONCRETE TRUCKS ARE LIMITED TO A DESIGNATED AREA TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE. PROPER SIGNAGE SHALL BE INSTALLED AND MAINTAINED ON SITE DEFINING DIRECTIONS TO AND LOCATIONS OF THE SPECIFIED WASH OUT AREA. IF A WASH OUT AREA CANNOT BE DESIGNATED OR MAINTAINED ON SITE, CONCRETE WASH OUT AND DISPOSAL MAY BE PROHIBITED AT THE OWNERS DISCRETION.

LEGEND:

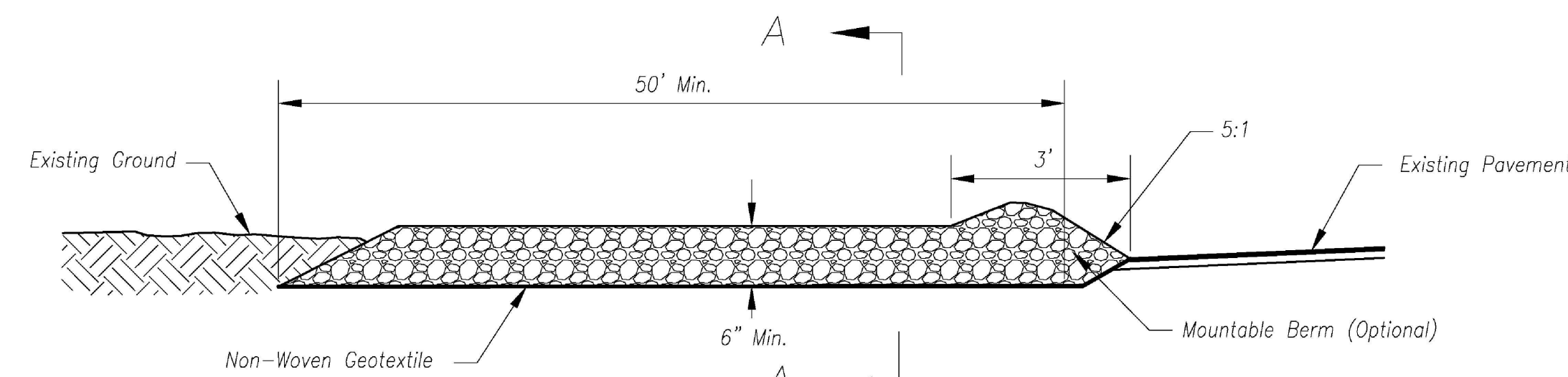
- 1005— PROPOSED CONTOURS
- - -1005- - - PROPOSED CONTOURS BY OTHERS
- - -1004- - - EXISTING CONTOURS
- - -1005- - - EXISTING CONTOURS
- SF- SILT FENCE
- ⌒ CURB INLET PROTECTION
- - - - - DISTURBED AREA = 1.8 ACRES
- ▒ CONSTRUCTION ENTRANCE
- - - - - CONCRETE WASHOUT AREA

CASEY'S CONSTRUCTION DIVISION One Convenience Blvd., P.O. Box 3001, Ankeny, IA 50021 515-965-6100	
PROJECT: LEE SUMMIT, MO #4291 HIGHWAY 150 & ARBORIDGE DRIVE "U4" - STYLE STORE	PUBLISHED: 08.11.23 REVISIONS: _____ _____ _____
DRAWING INFORMATION: CONSTRUCTION DIVISION DRAWN BY: _____ CHECKED BY: _____	EROSION CONTROL PLAN C-401

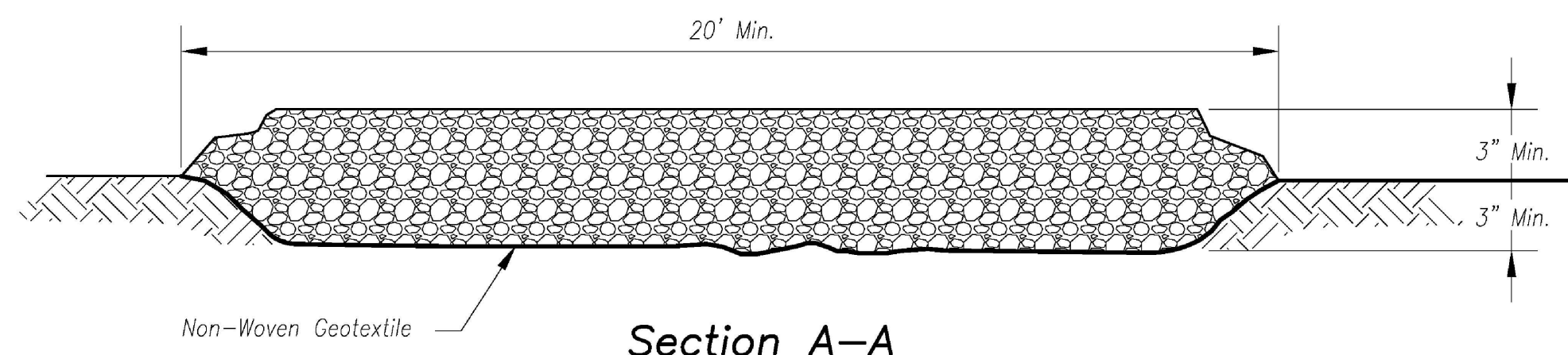




Plan View
Not to Scale



Side Elevation
Not to Scale



Section A-A
Not to Scale

Notes for Construction Entrance:

1. Avoid locating on steep slopes, at curves on public roads, or downhill of disturbed area.
2. Remove all vegetation and other unsuitable material from the foundation area, grade, and crown for positive drainage.
3. If slope towards the public road exceeds 2%, construct a 6- to 8-inch high ridge with 3H:1V side slopes across the foundation approximately 15 feet from the edge of the public road to divert runoff from it.
4. Install pipe under the entrance if needed to maintain drainage ditches along public roads.
5. Place stone to dimensions and grade as shown on plans. Leave surface sloped for drainage.
6. Divert all surface runoff and drainage from the entrance to a sediment control device.
7. If conditions warrant, place geotextile fabric on the graded foundation to improve stability.

Maintenance for Construction Entrance:

1. Reshape entrance as needed to maintain function and integrity of installation. Top dress with clean aggregate as needed.

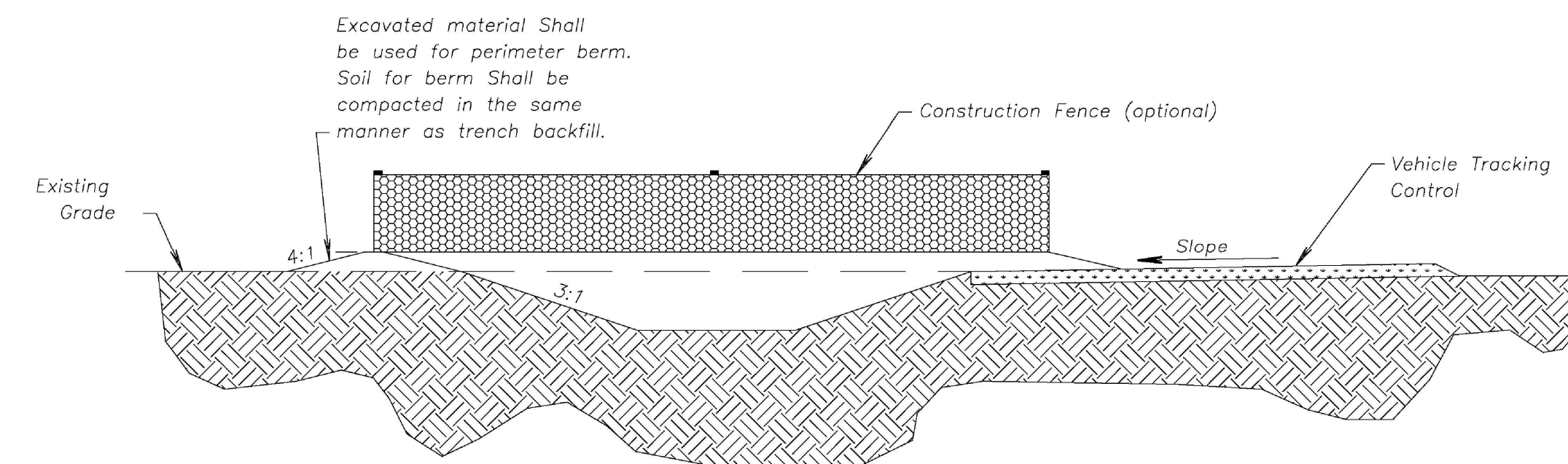
CONSTRUCTION ENTRANCE

Notes for Concrete Washout:


1. Concrete washout areas shall be installed prior to any concrete placement on site.
2. Concrete washout area shall include a flat subsurface pit sized relative to the amount of concrete to be placed on site. The slopes leading out of the subsurface pit shall be 3:1. The vehicle tracking pad shall be sloped towards the concrete washout area.
3. Vehicle tracking control is required at the access point to all concrete washout areas.
4. Signs shall be placed at the construction site entrance, washout area and elsewhere as necessary to clearly indicate the location(s) of the concrete washout area(s) to operators of concrete truck and pump rigs.
5. A one-piece impervious liner may be required along the bottom and sides of the subsurface pit in sandy or gravelly soils.

Maintenance for Concrete Washout:


1. Concrete washout materials shall be removed once the materials have filled the washout to approximately 75% full.
2. Concrete washout areas shall be enlarged as necessary to maintain capacity for wasted concrete.
3. Concrete washout water, wasted pieces of concrete and all other debris in the subsurface pit shall be transported from the job site in a water-tight container and disposed of properly.
4. Concrete washout areas shall remain in place until all concrete for the project is placed.
5. When concrete washout areas are removed, excavations shall be filled with suitable compacted backfill and topsoil, any disturbed areas associated with the installation, maintenance, and/or removal of the concrete washout areas shall be stabilized.



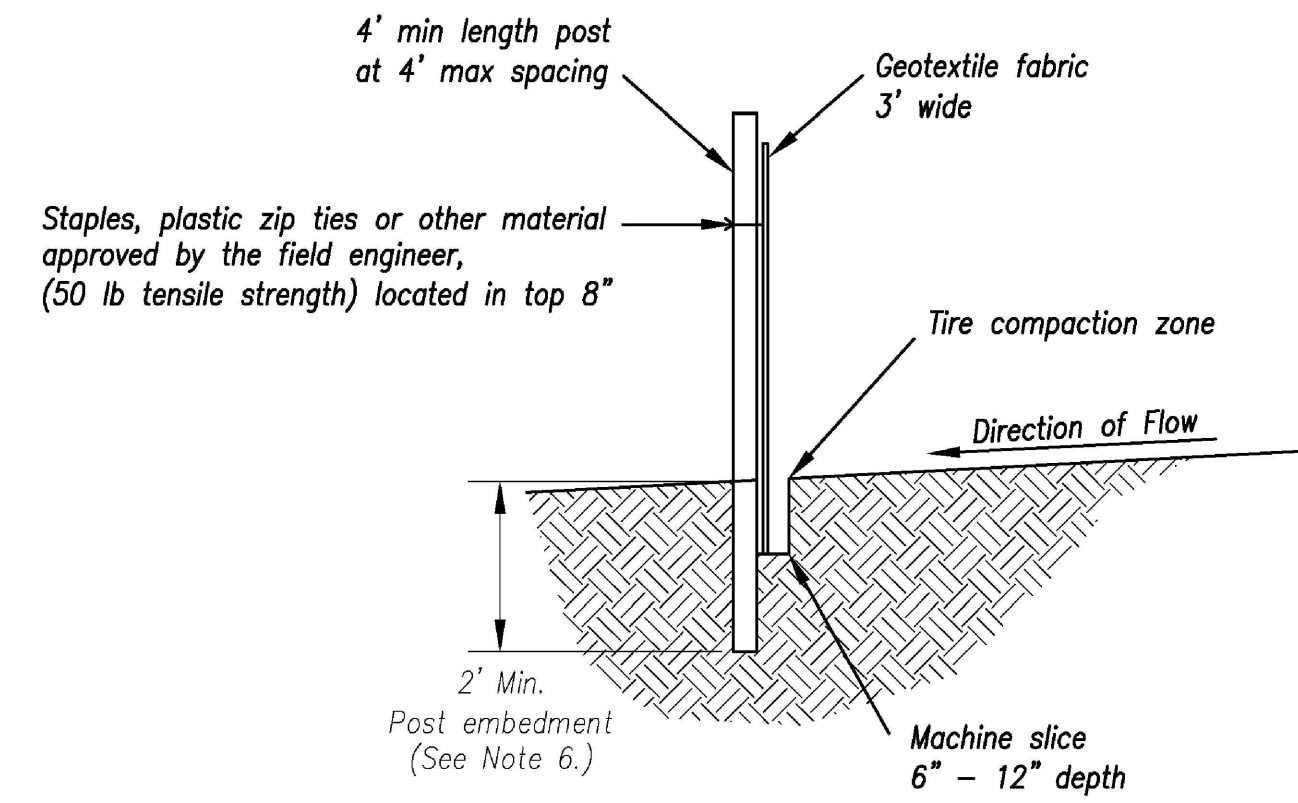
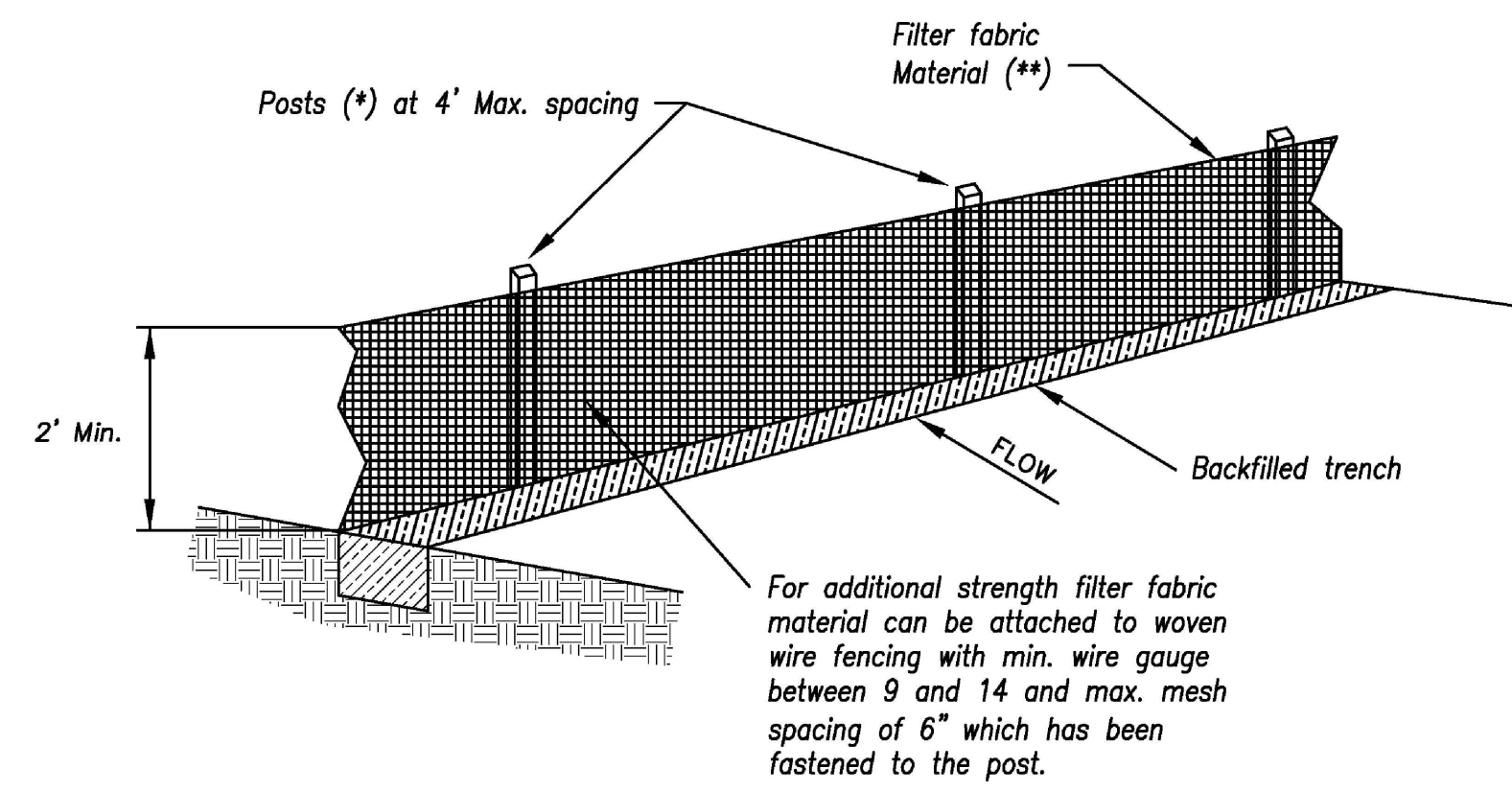
CONCRETE WASHOUT

AMERICAN PUBLIC WORKS ASSOCIATION	
	KANSAS CITY METRO CHAPTER
CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT	STANDARD DRAWING NUMBER ESC-01 ADOPTED: 10/24/2016

Construction Entrance modified from 2015 Overland Park Standard Details for Erosion and Sediment Control; Concrete Washout modified from 2009 City of Great Bend Standard Drawings.

	
CASEY'S CONSTRUCTION DIVISION One Convenience Blvd., P.O. Box 3001, Ankeny, IA 50021 515-965-6100	
PROJECT: LEE SUMMIT, MO #4291 HIGHWAY 150 & ARBORIDGE DRIVE "U4" - STYLE STORE	DRAWING INFORMATION: EROSION CONTROL DETAILS C-402
DRAWING INFORMATION: CONSTRUCTION DIVISION	RELEASED: 08.11.23 REVISIONS:

SBB Proj. No. 21-288



- (*) POSTS**
- MIN. LENGTH 4'
 - HARDWOOD 1 3/16" x 1 3/16"
 - NO.2 SOUTHERN PINE 2 5/8" x 2 5/8"
 - STEEL 1.33 LB/FT

()** - Geotextile Fabric shall meet the requirements of AASHTO M288

SILT FENCE DETAILS
Not to Scale

Notes:

1. In order to contain water, the ends of the silt fence must be turned uphill (Figure A).
2. Long perimeter runs of silt fence must be limited to 100'. Runs should be broken up into several smaller segments to minimize water concentrations (Figure A).
3. Long slopes should be broken up with intermediate rows of silt fence to slow runoff velocities.
4. Attach fabric to upstream side of post.
5. Install posts a minimum of 2' into the ground.
6. Trenching will only be allowed for small or difficult installation, where slicing machine cannot be reasonably used.

Maintenance:

1. Remove and dispose of sediment deposits when the deposit approaches 1/2 the height of silt fence.
2. Repair as necessary to maintain function and structure.

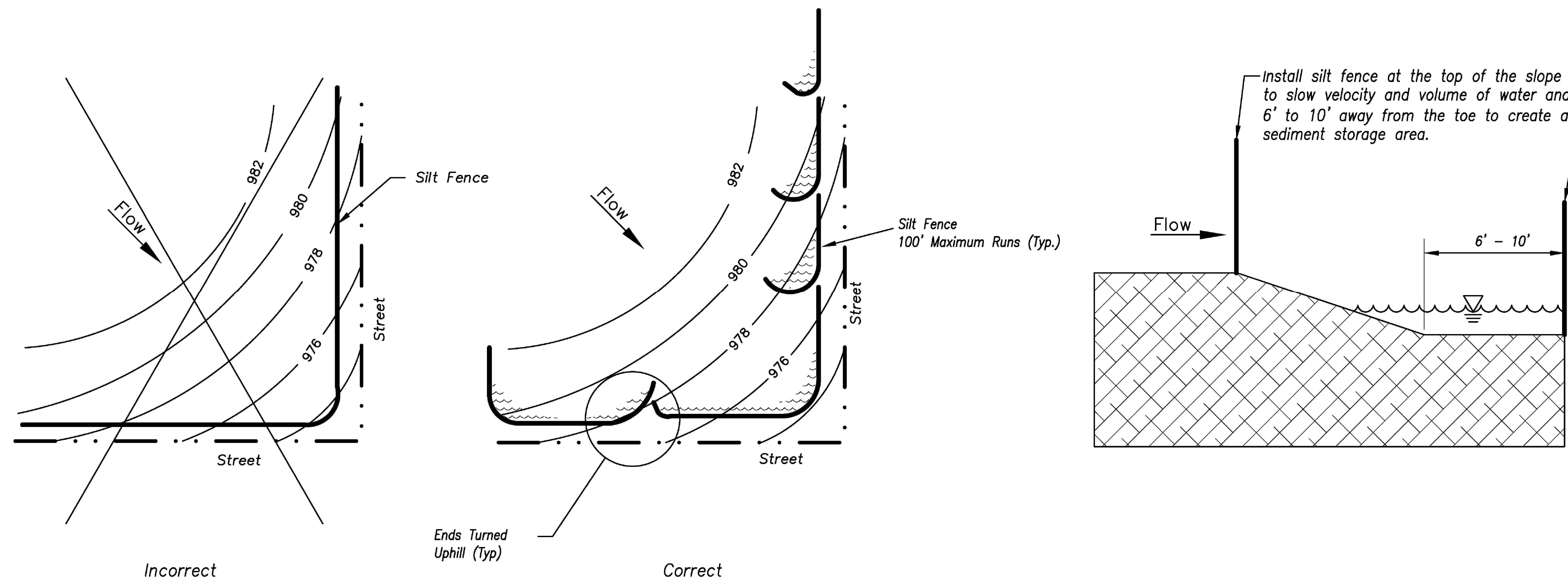
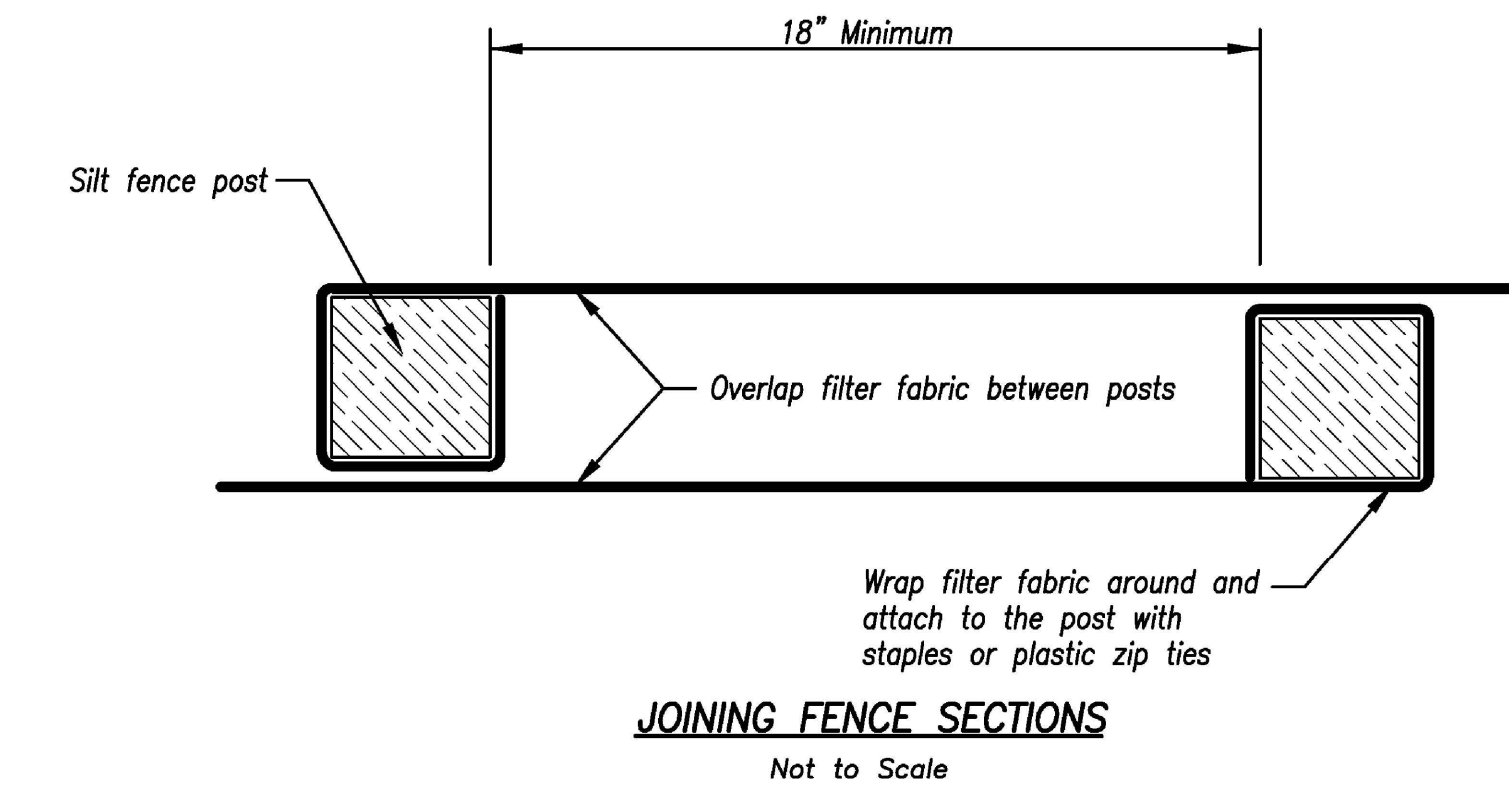



Figure A


SILT FENCE LAYOUT
Not to Scale

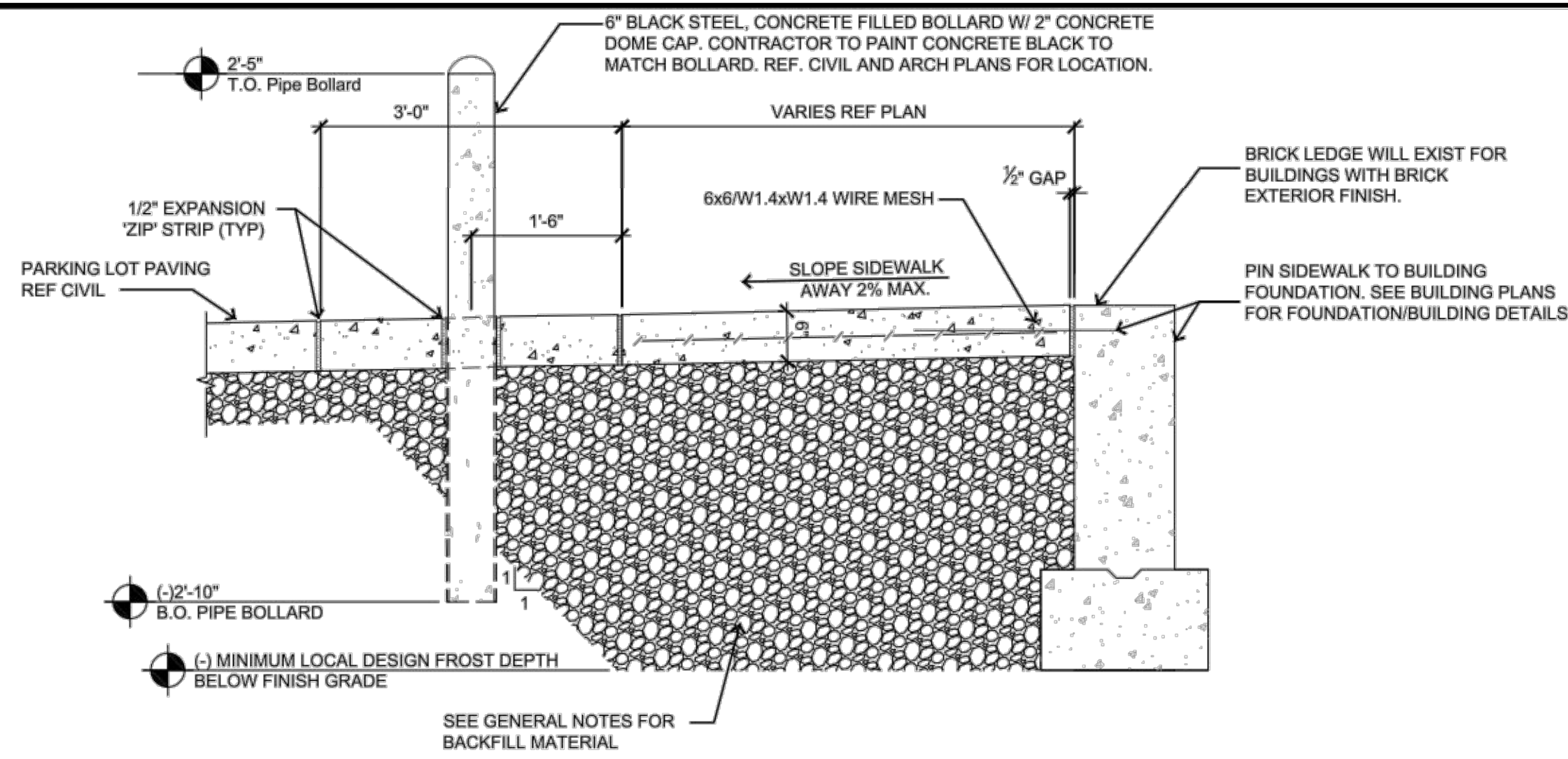


JOINING FENCE SECTIONS
Not to Scale

AMERICAN PUBLIC WORKS ASSOCIATION	
	KANSAS CITY METRO CHAPTER
SILT FENCE	STANDARD DRAWING NUMBER ESC-03 ADOPTED: 10/24/2016

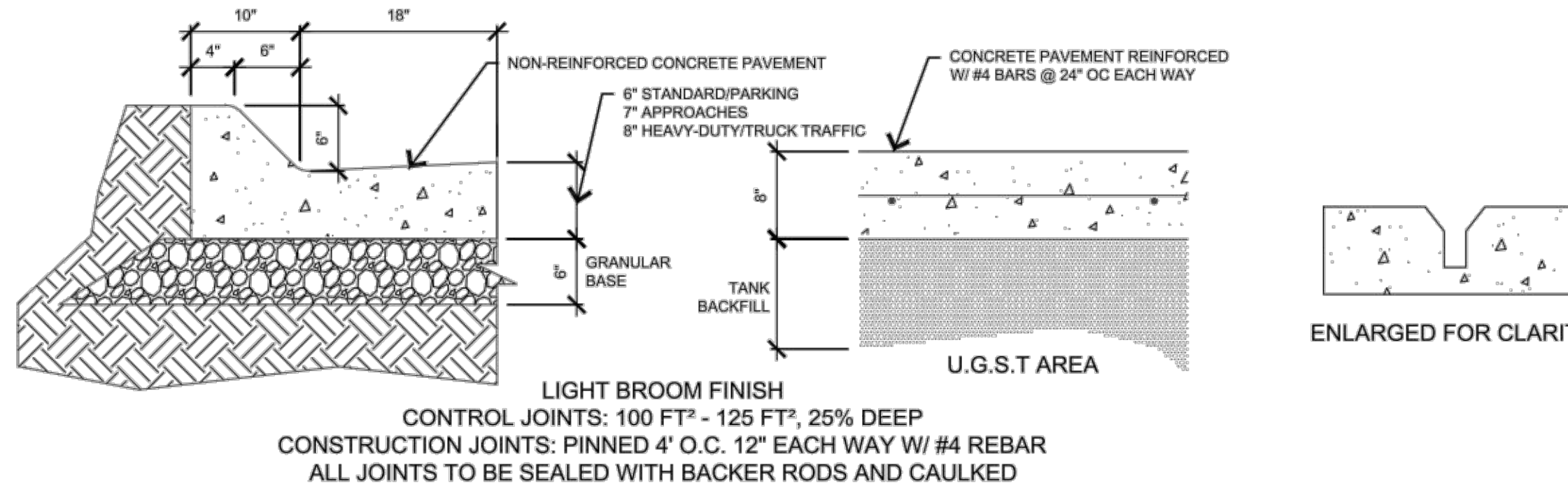
Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

	
CASEY'S CONSTRUCTION DIVISION One Convenience Blvd., P.O. Box 3001, Ankeny, IA 50021 515-965-6100	
PROJECT: LEE SUMMIT, MO #4291 HIGHWAY 150 & ARBORIDGE DRIVE "U4" - STYLE STORE	DRAWING INFORMATION: EROSION CONTROL DETAILS C-403
DRAWING INFORMATION: CONSTRUCTION DIVISION	DATE: 08.11.23



1 TYPICAL BUILDING SIDEWALK AND BOLLARD

3/4" = 1'-0" ***SUBGRADE AGGREGATE SECTION TO BE DESIGNED BASED ON SITE SOILS AND USE***

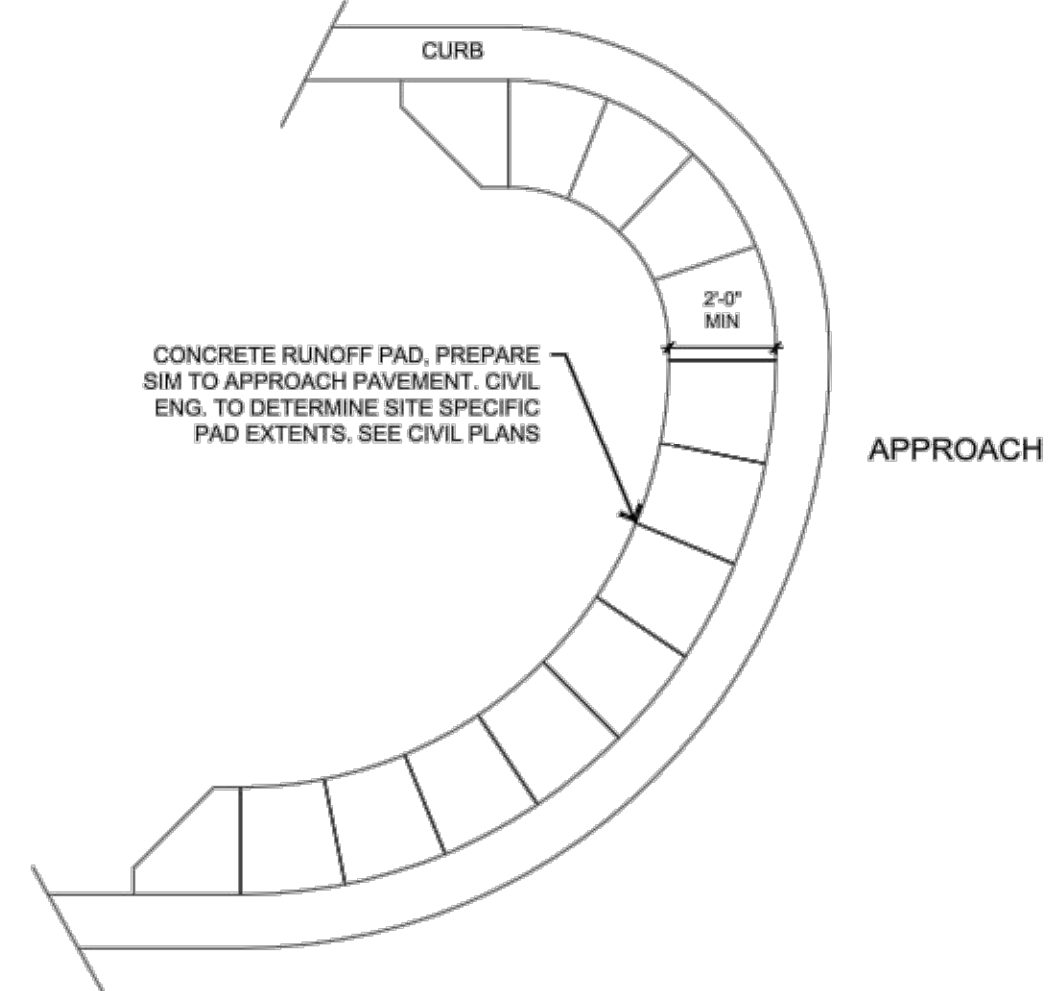


2 CONCRETE PAVING AND CURB

Not to Scale

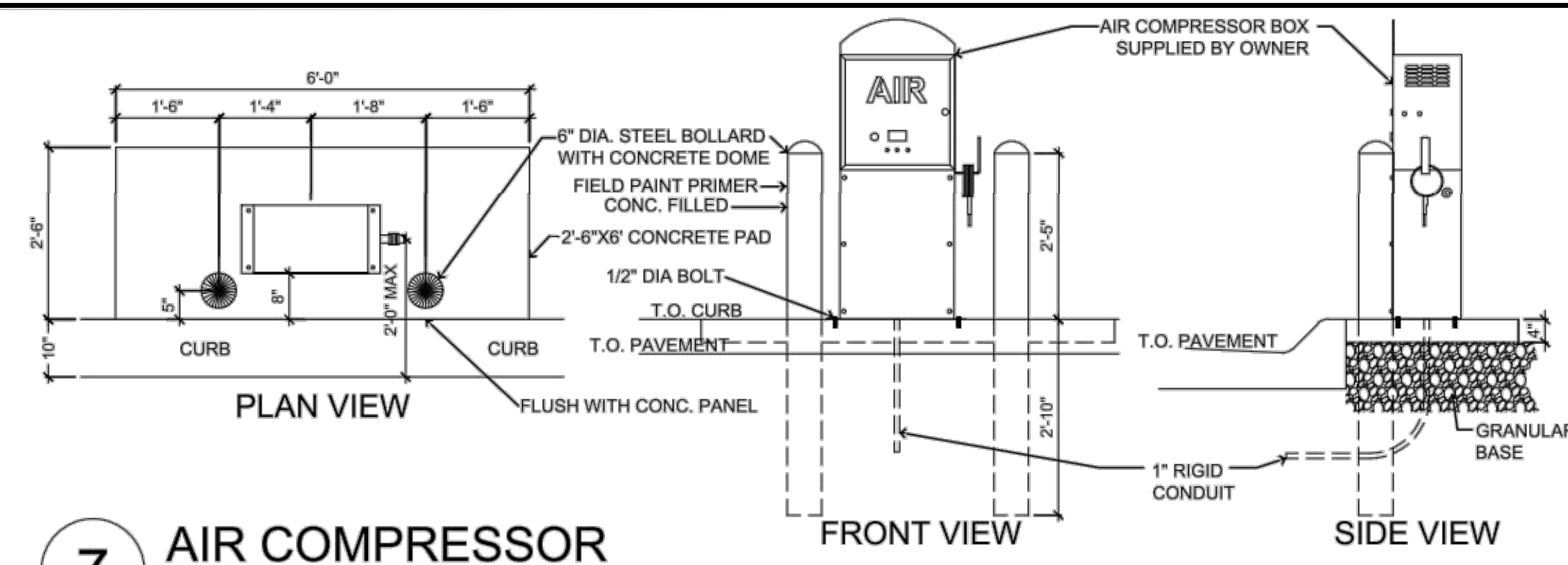
3 PAVING SAW-CUT

Not to Scale



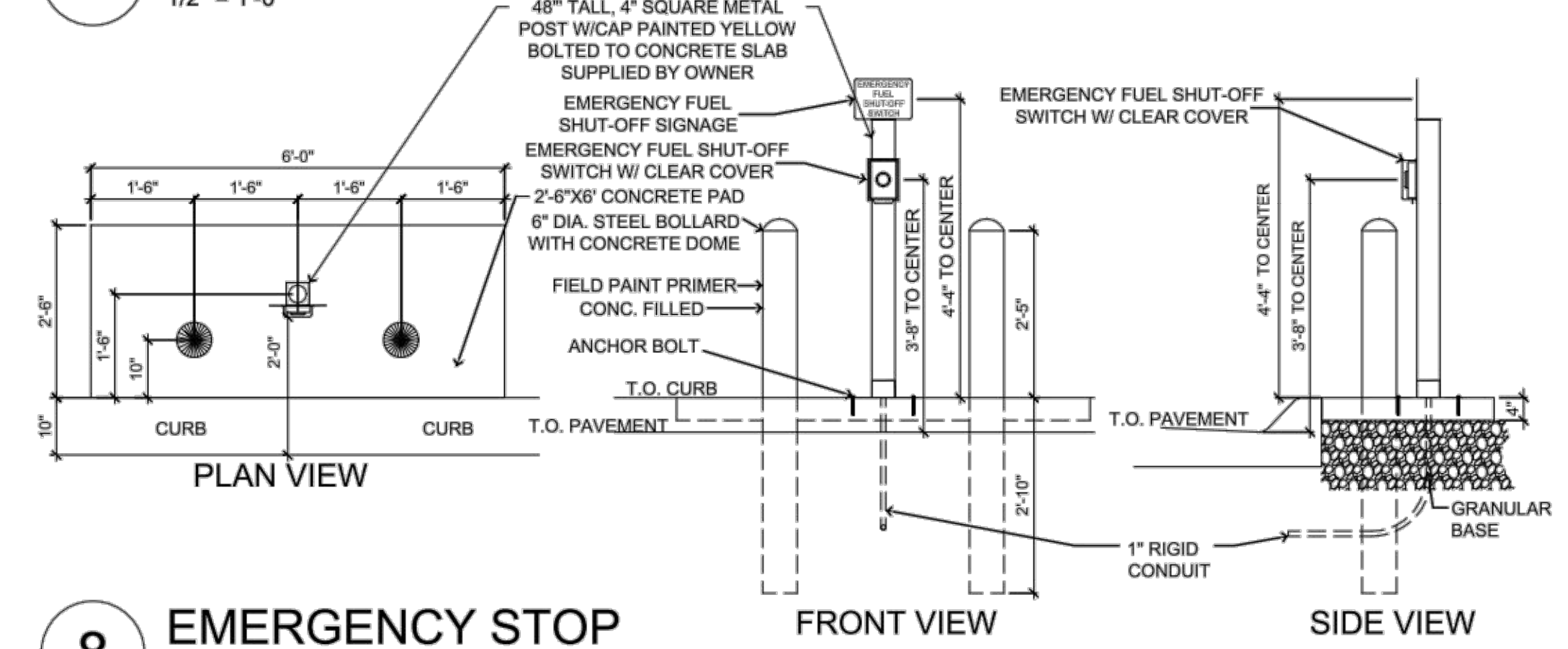
4 LANDSCAPE PROTECTOR

Not to Scale



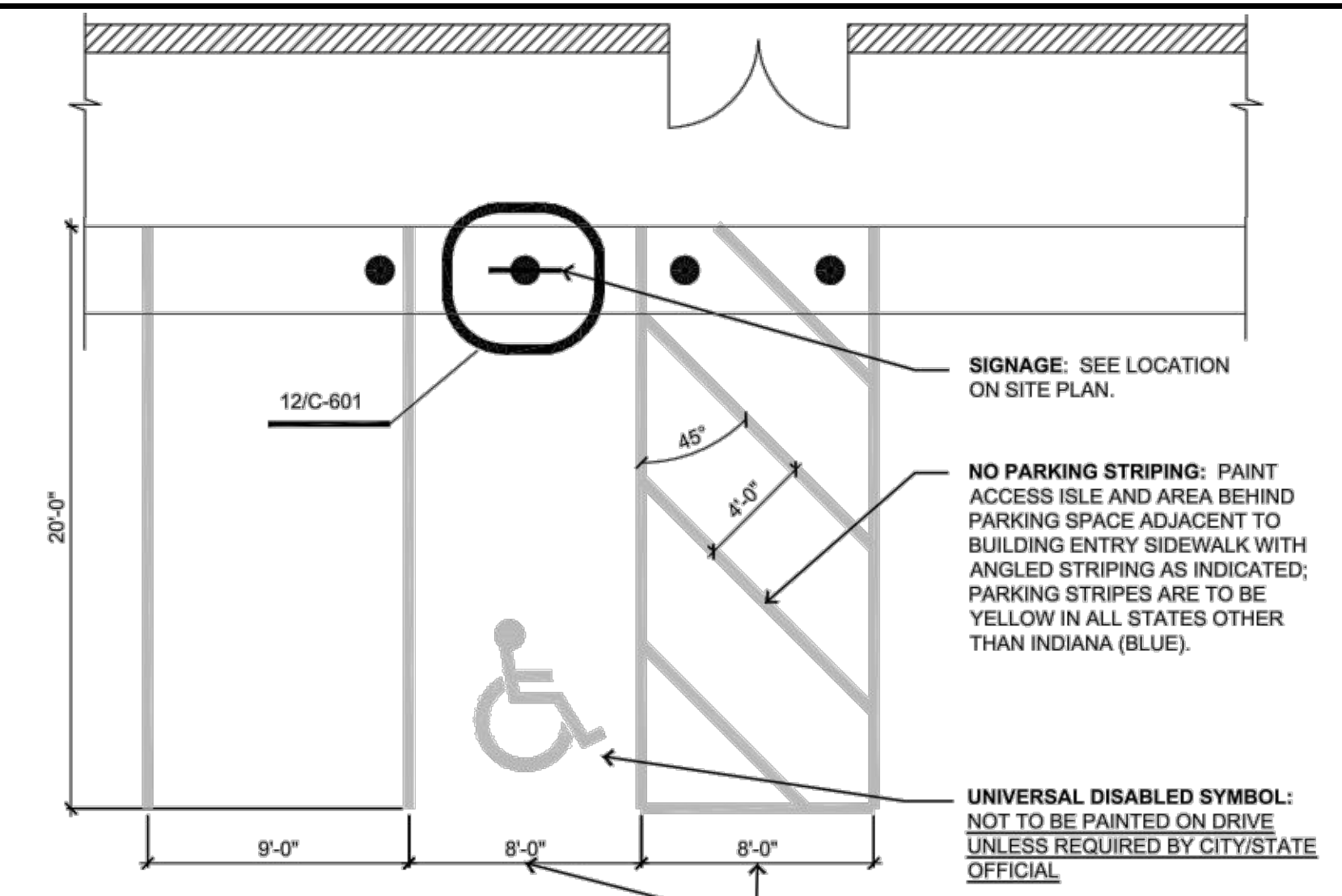
7 AIR COMPRESSOR

1/2" = 1'-0"



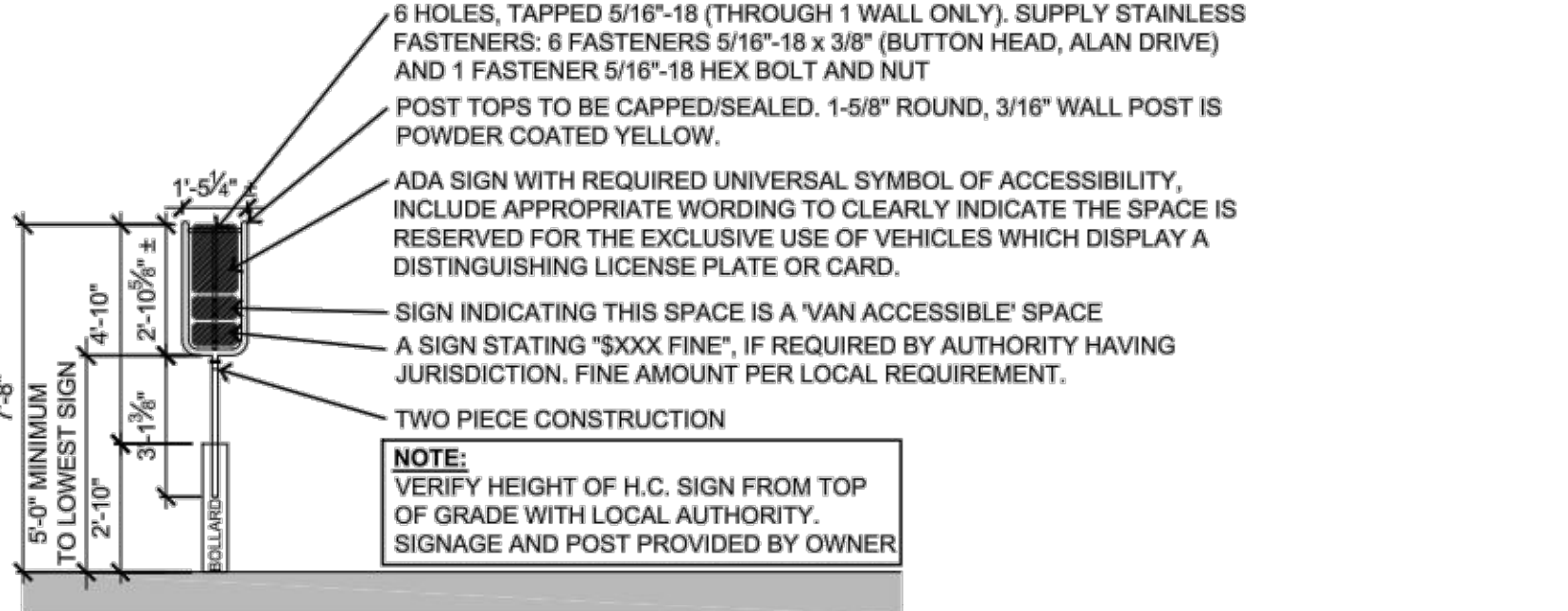
8 EMERGENCY STOP

1/2" = 1'-0"



11 ADA PARKING SPACES

3/16" = 1'-0"



12 ADA PARKING SIGN

1/4" = 1'-0"

*** THE STATE OF TENNESSEE REQUIRES LANGUAGE BELOW THE UNIVERSAL SYMBOL LISTING OUT THE FINE AMOUNT FOLLOWED BY THE BUSINESS NAME AND BUSINESS TELEPHONE NUMBER. THE VAN ACCESSIBLE SIGN IS TO REMAIN BELOW THE MAIN SIGN.***

GENERAL NOTES

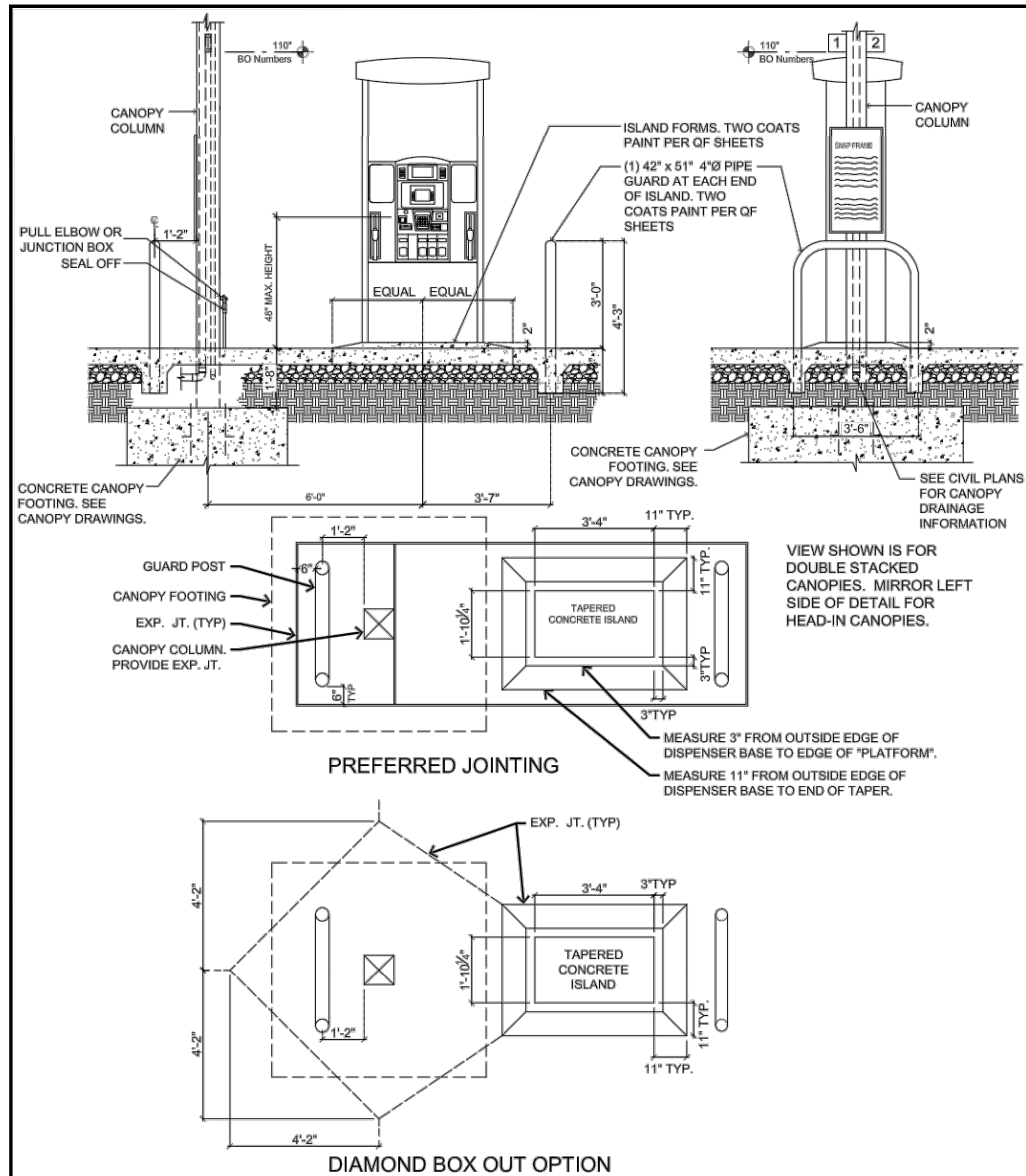
- Concrete:**
- All concrete and reinforcing work shall conform to the latest edition of the American Concrete Institute's "Standard Building Code Requirements for Reinforced Concrete," (ACI 318) and "Specifications for Structural Concrete for Buildings," (ACI 301).
 - Concrete shall use type II cement. Concrete mix designs shall meet the following requirements:

	MINIMUM 28-DAY f _c	MAXIMUM W/C RATIO	SLUMP	AIR ENTRAIN.
Exterior exposed concrete	4,000 psi	0.42	4" ± 1"	6% ± 1%
 - If Contractor desires to increase slump above allowable limits to facilitate placement or pumping, this shall be done utilizing a superplasticizer approved by the Ready Mix Designer at a dosage rate provided by Ready Mix Designer.
 - The Contractor shall reject any concrete that exceeds the slump limits noted above (prior to adding superplasticizer) or concrete that can not be placed within ninety (90) minutes of batch time.
 - No aluminum shall be placed in concrete.
 - All concrete is reinforced unless specifically noted as Unreinforced. Reinforce all concrete not otherwise shown with the same reinforcing as in similar sections or areas.
 - During hot weather (80 degrees F and above), the Contractor shall comply with the recommendations ACI-305 "Hot Weather Concrete". During cold weather (40 degrees and below), the Contractor shall comply with the recommendations of ACI-306 "Cold Weather Concreting".
 - The concrete mix designs are to be submitted as a formal submittal to the Owner for acceptance PRIOR to concrete being delivered to the site.
 - Verify with local authorities the required thickness of poured concrete for approaches and parking lot.
- Sub-Base And Aggregate:**
- Sub-base Course Under Exterior Concrete Paved Surfaces: Spread and compact sub-base in 6"-9" lifts compacted to 98% Standard Proctor.
 - Aggregate backfill as follows or approved equal by Casey's:
 - Building Slab - 3/4" to 1-1/2" max. clean stone
 - Building Sidewalk - 3/4" to 1-1/2" max. clean stone
 - Pavement - 1" to 1-1/2" max. stone with fines
 - Sidewalk Not Adjacent to Building - Same as pavement
 - Tank pit - See QF sheets

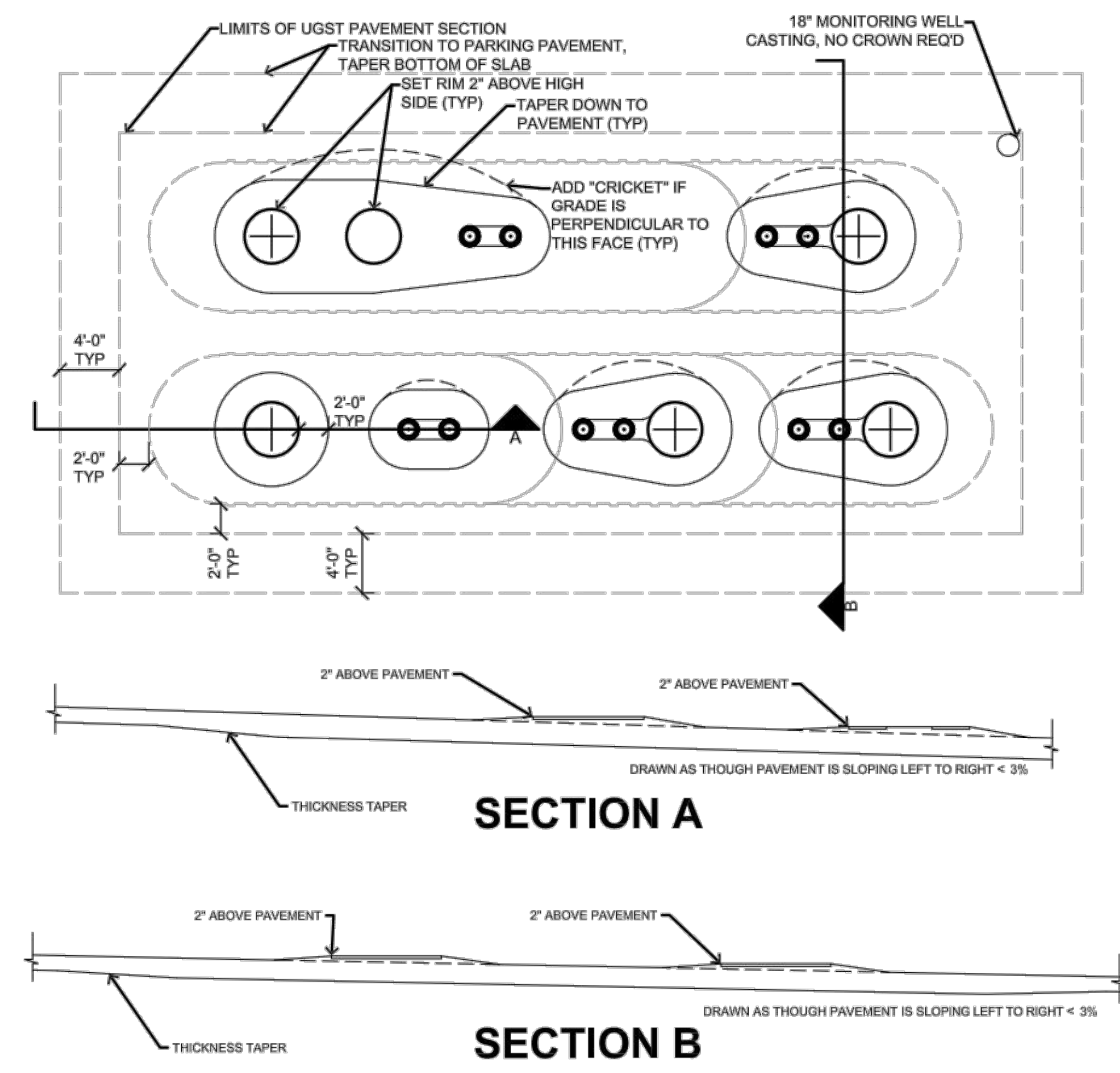


2023 CIVIL DETAILS		CASEY'S CONSTRUCTION DIVISION One Convenience Blvd., P.O. Box 3001, Ankeny, IA 50021 515-965-6100	
PUBLISHED: 01/10/23	PROJECT: LEE SUMMIT, MO #4291	DATE: 08.11.23	DRAWING INFORMATION: STANDARD DETAILS
REVISION: 03/08/23	HIGHWAY 150 & ARBORIDGE DRIVE	REVISION:	
	"U4" - STYLE STORE		
	CONSTRUCTION DIVISION		
	DRAWN BY:	CHECKED BY:	
			C-601

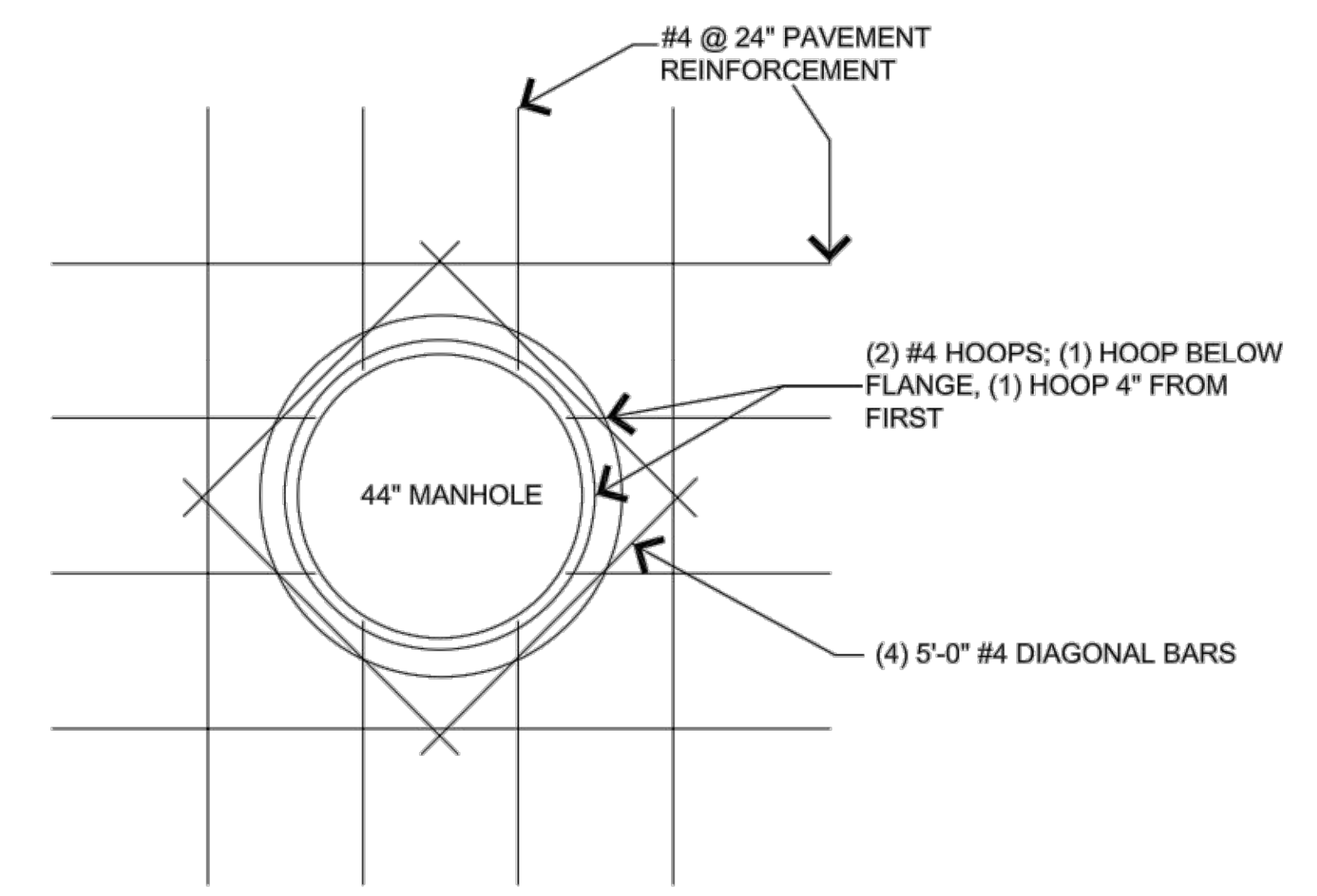
SBB Proj. No. 21-288



1 GAS TAPERED FUEL ISLAND (PREFERRED OPTION)
Not to Scale



4 UGST PAVING FOR PAVEMENT SLOPE < 3%
Not to Scale



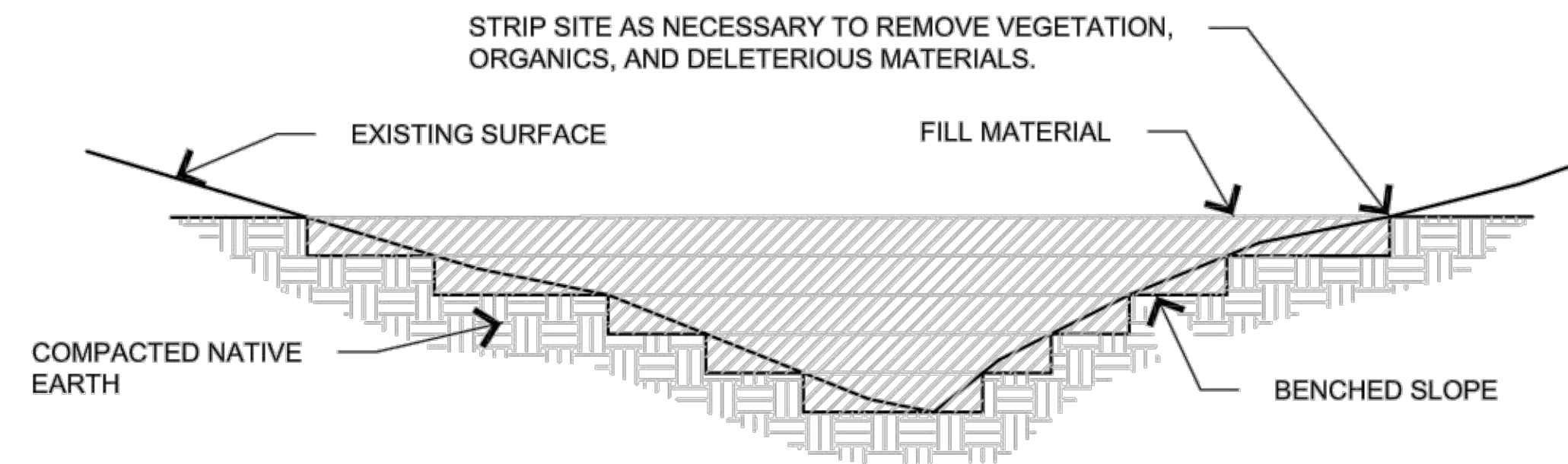
General Notes:
1 ALL REINFORCING IS CENTER OF SLAB.

6 UGST Manhole Detail
1/2" = 1'-0"

SBB ENGINEERING
101 South Kansas Avenue
Topeka, Kansas 66603
Ph: (785) 215-8630 /
www.sbbeng.com

2023 CIVIL DETAILS		CASEY'S CONSTRUCTION DIVISION One Convenience Blvd., P.O. Box 3001, Ankeny, IA 50021 515-965-6100	
PUBLISHED: 01/10/23	PROJECT: LEE SUMMIT, MO #4291 HIGHWAY 150 & ARBORIDGE DRIVE "U4" - STYLE STORE	DATE: 08.11.23	DRAWING INFORMATION: STANDARD DETAILS
REVISIONS:	DRAWN BY:	CHECKED BY:	C-602

SBB Proj. No. 21-288

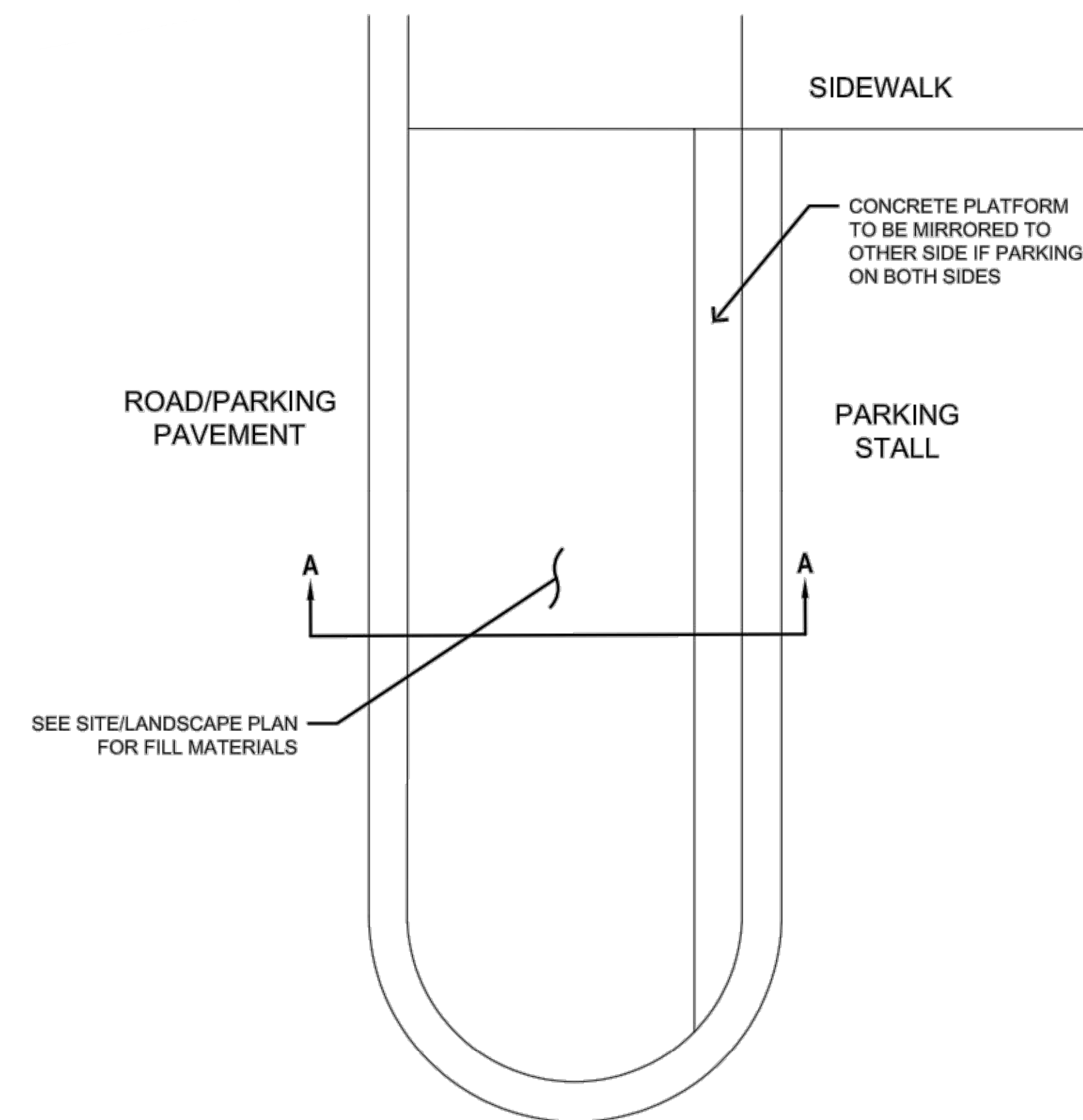


NOTES:

1. BENCH SLOPES TO MAINTAIN VERTICAL SIDE SLOPES AT FILL LIMITS +/- 3' VERTICAL TO +/- 8' HORIZONTAL.
2. COMPACTION SHALL BE IN 8" LIFTS TO 95% STANDARD PROCTOR OR OTHERWISE SPECIFIED IN GEOTECHNICAL REPORT.
3. SCARIFY ORIGINAL GROUND AND BLEND WITH FIRST LIFT ON EACH BENCH.
4. ALL FILL MATERIALS, INCLUDING FILL GENERATED ON-SITE, SHALL BE OF SUITABLE MATERIAL. UNSUITABLE FILL MATERIAL INCLUDES, BUT IS NOT LIMITED TO, SOIL THAT CONTAINS LARGE ROCKS, TREE AND PLANT ROOTS, CONCRETE, TRASH, ETC.

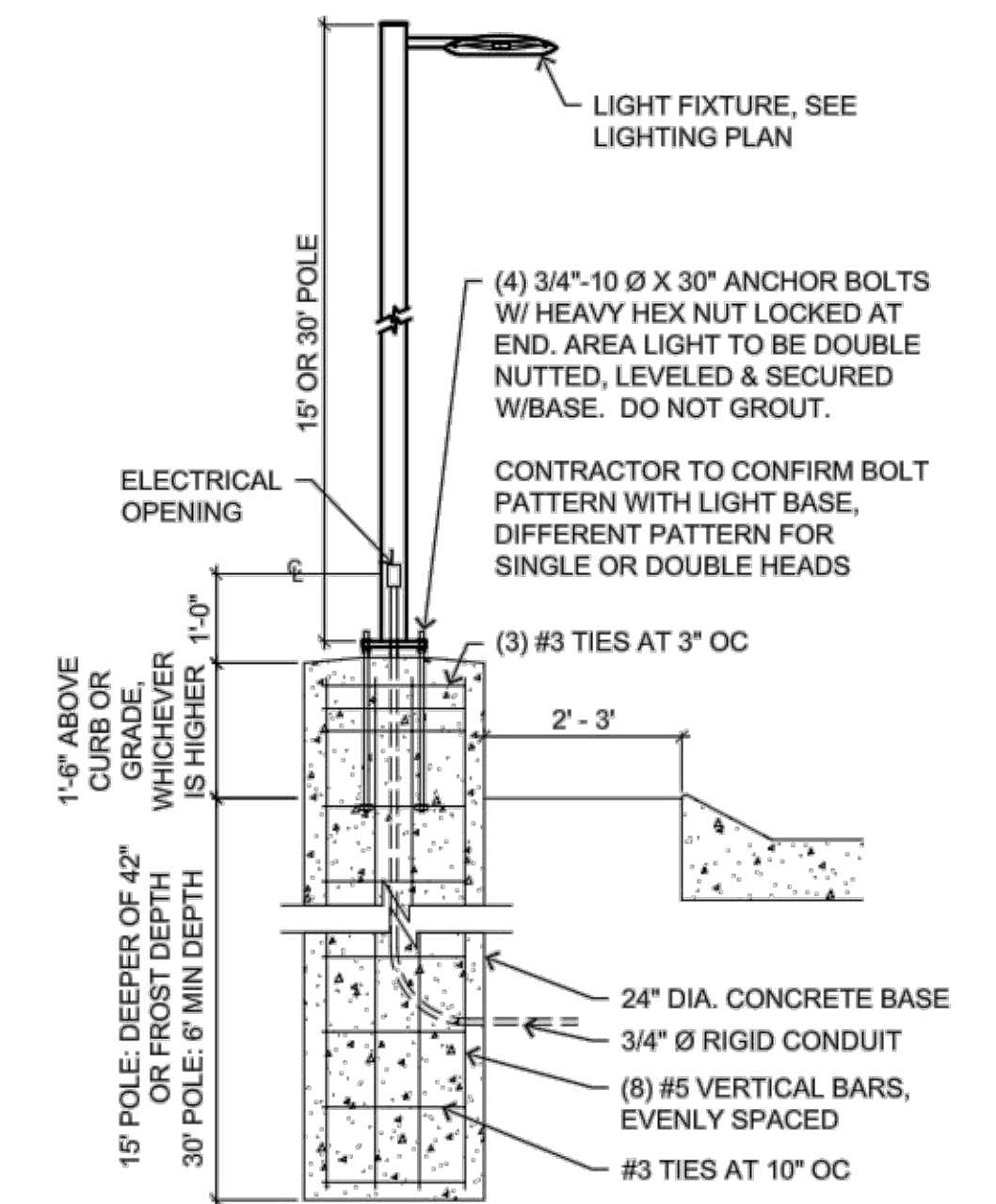
2 TYPICAL FILL SECTION

Not to Scale



7 PARKING LANDSCAPE ISLAND DETAIL

3/8" = 1'-0"



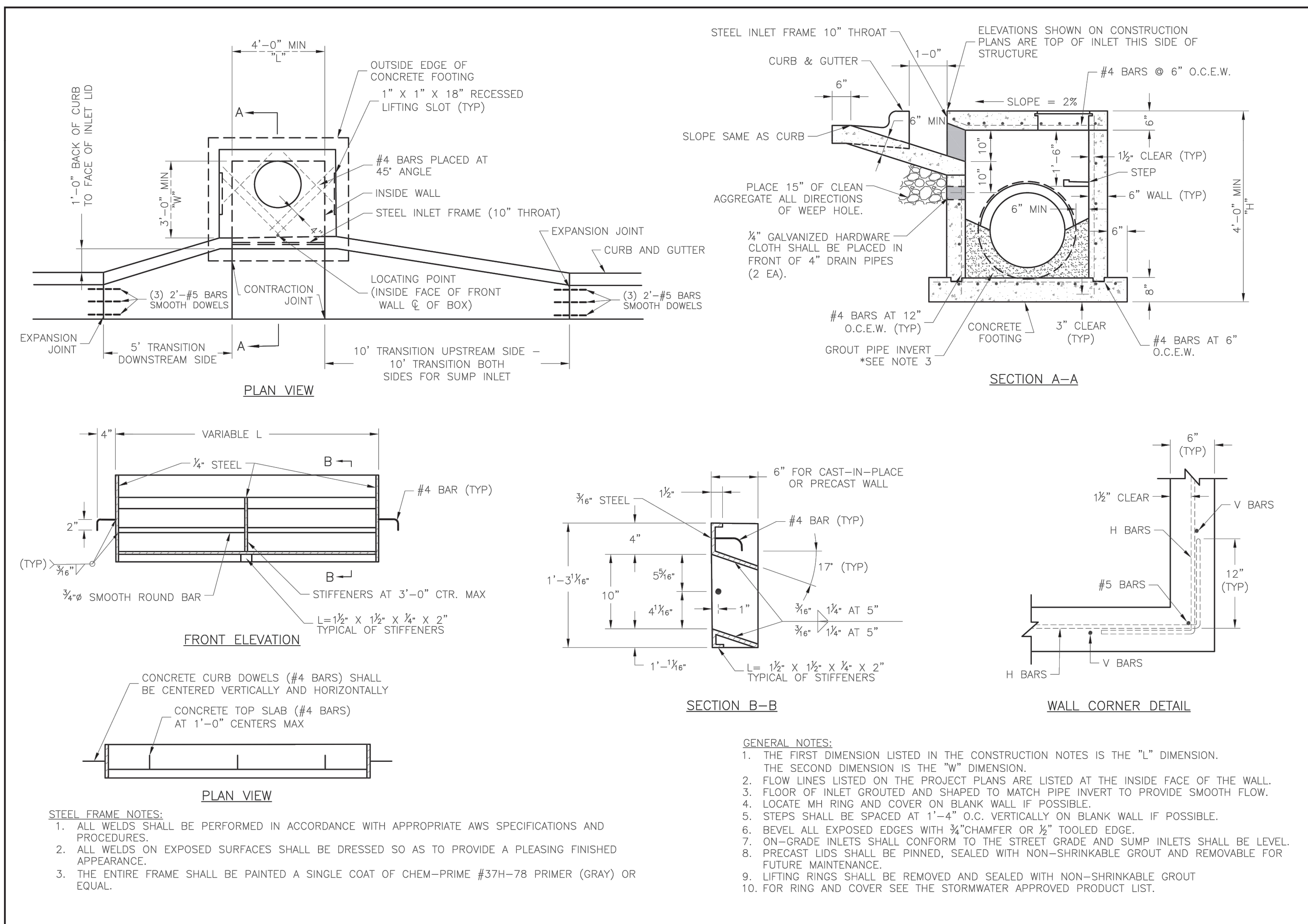
8 AREA LIGHTING

1/2" = 1'-0"



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PUBLISHED: 01/10/23	PROJECT: LEE SUMMIT, MO #4291 HIGHWAY 150 & ARBORIDGE DRIVE "U4" - STYLE STORE	DATE: 08.11.23	STANDARD DETAILS
DRAWING INFORMATION		DRAWING INFORMATION	
CONSTRUCTION DIVISION		CONSTRUCTION DIVISION	
C-603		C-603	



LEE'S SUMMIT MISSOURI

PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64603

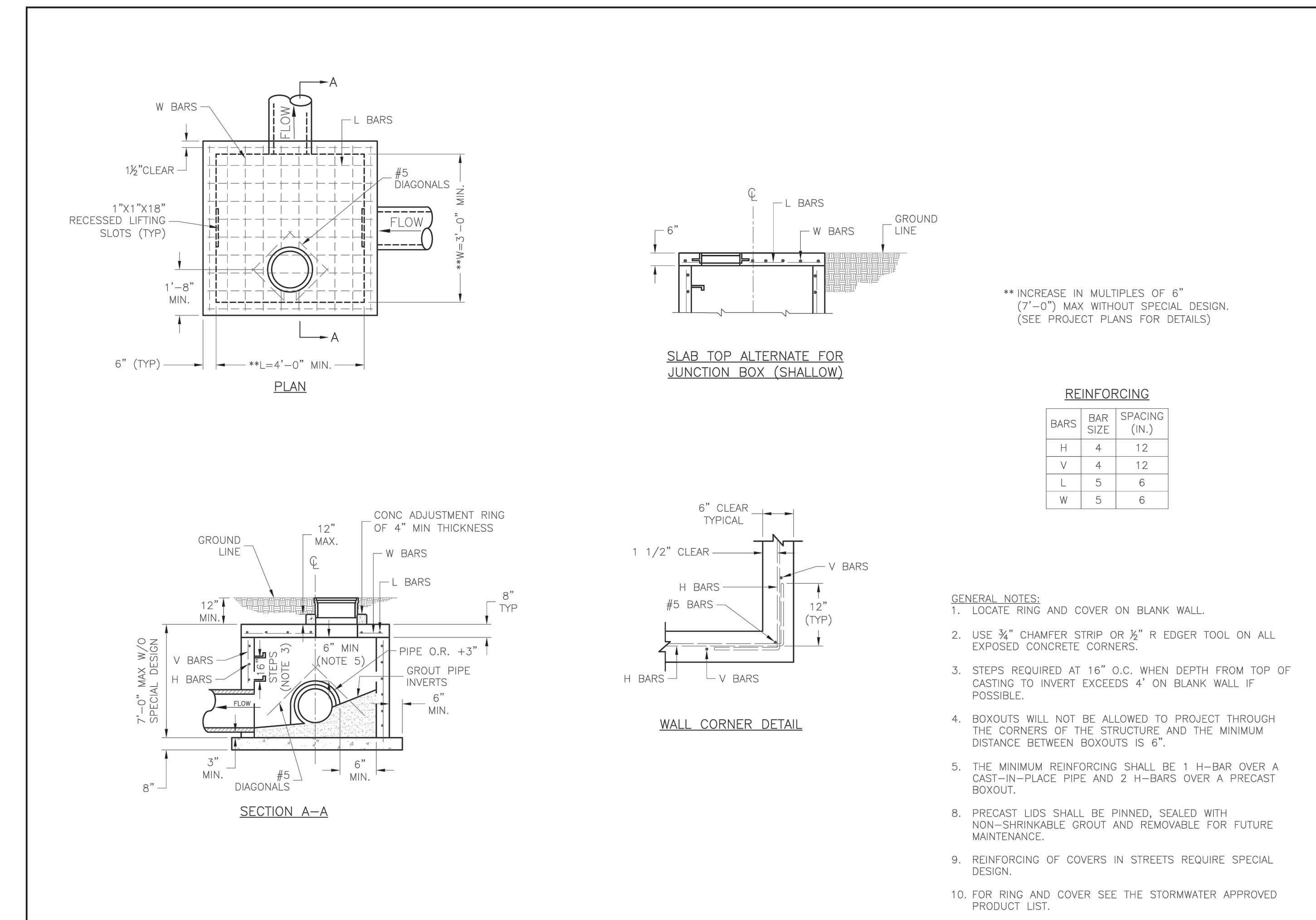
STANDARD DETAILS

CITY OF LEE'S SUMMIT, MO

LEE'S SUMMIT, JACKSON COUNTY, MO

CURB INLET DETAIL

Drawn By: MIF
Checked By: DL
Date: 08/2023
Proj #: STM-1



LEE'S SUMMIT MISSOURI

PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64603

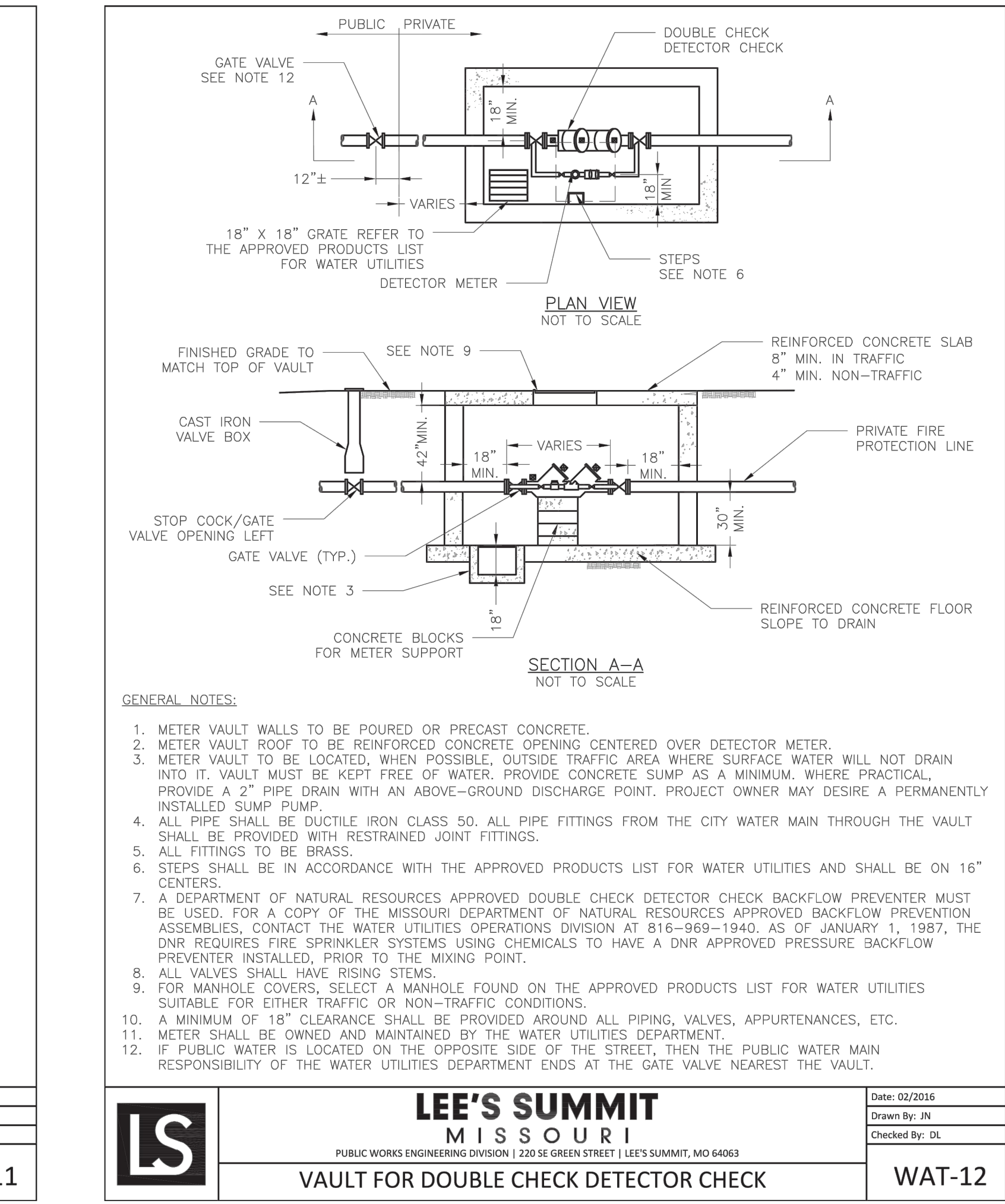
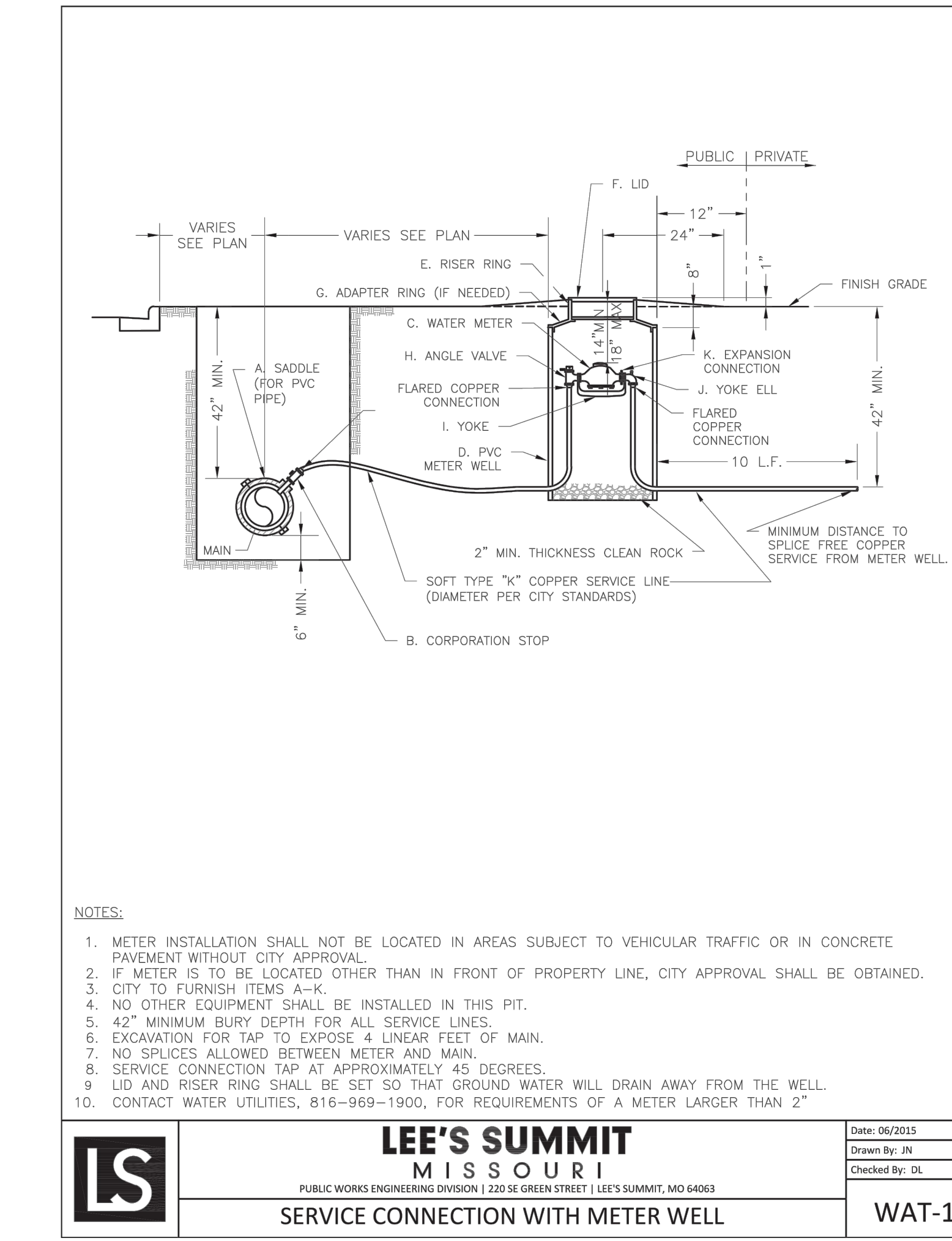
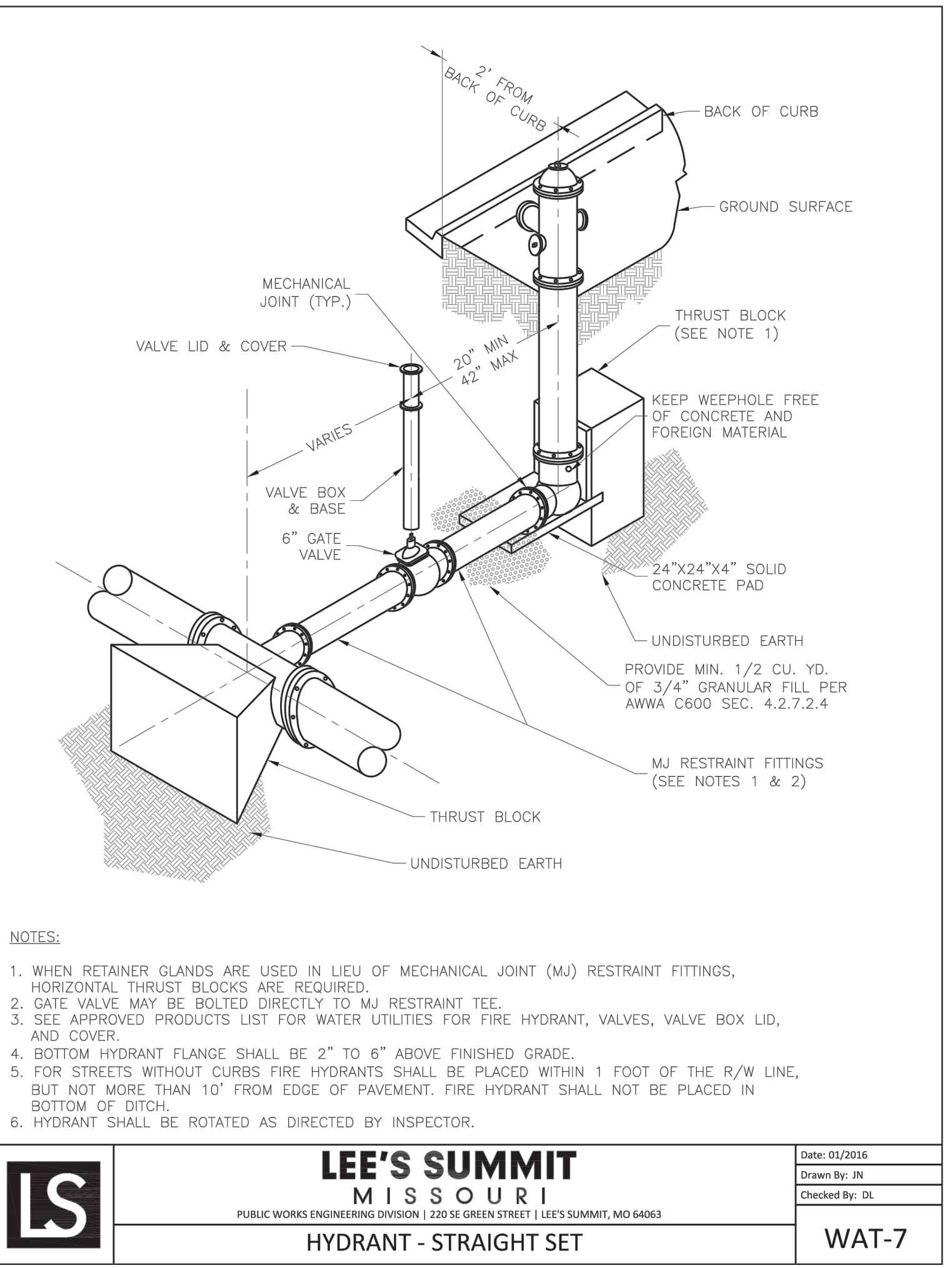
STANDARD DETAILS

CITY OF LEE'S SUMMIT, MO

LEE'S SUMMIT, JACKSON COUNTY, MO

JUNCTION BOX DETAIL

Drawn By: MIF
Checked By: DL
Date: 08/2023
Proj #: STM-3



LEE'S SUMMIT MISSOURI

PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64603

STANDARD DETAILS

CITY OF LEE'S SUMMIT, MO

LEE'S SUMMIT, JACKSON COUNTY, MO

VAULT FOR DOUBLE CHECK DETECTOR CHECK

Drawn By: MIF
Checked By: DL
Date: 02/2016
Proj #: WAT-12

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CASEY'S CONSTRUCTION DIVISION

One Convenience Blvd., P.O. Box 3001, Ankeny, IA 50021 515-965-6100

PROJECT: LEE SUMMIT, MO #4291
HIGHWAY 150 & ARBORIDGE DRIVE
"U4" - STYLE STORE

DATE: 08.11.23
REVISED ON:

DRAWING INFORMATION
CONSTRUCTION DIVISION

STANDARD DETAILS
C-604