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SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS

FINAL DEVELOPMENT PLAN

AN UNPLATTED PARCEL IN THE WEST HALF OF SECTION 31, TOWNSHIP 48 NORTH, RANGE 31 WEST, IN THE CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

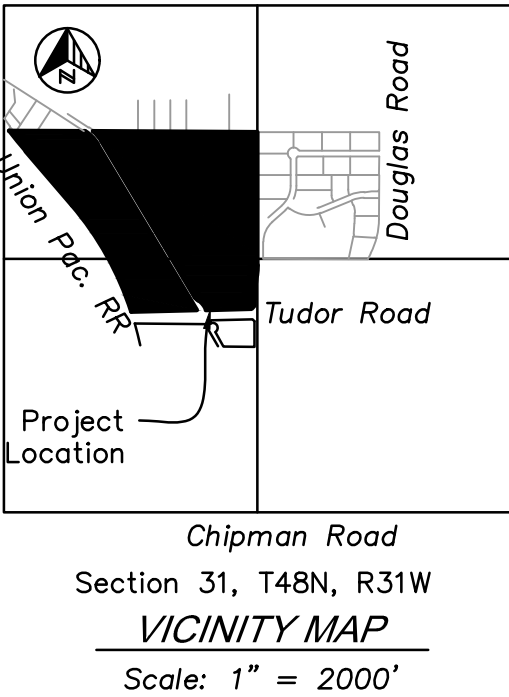


LEGEND

●	SECTION CORNER	(M)	MEASURED
○	SET 1/2" REBAR W/LC 366 CAP	(P)	PLATTED
○	FOUND MONUMENT AS NOTED	—P-OH—	OVERHEAD POWER LINE
○	FIRE HYDRANT	—G—	GAS LINE
X W	WATER VALVE	—P-UG—	UNDERGROUND POWER LINE
⊗	WATER METER	—TEL—	UNDERGROUND TELEPHONE LINE
⊗	WATER METER PIT	—FO—	UNDERGROUND FIBER OPTIC LINE
X G	GAS VALVE	—SS—	SANITARY SEWER LINE
⊗	GAS METER	—SD—	STORM LINE
⊗	SPRINKLER BOX	—W—	WATER LINE
⊗	SANITARY SEWER MANHOLE	⊗	TELEPHONE MANHOLE
⊗	TRAFFIC SIGNAL BOX	⊗	TELEPHONE PEDESTAL
⊗	TRAFFIC SIGNAL POLE	⊗	TELEPHONE CABINET
⊗	FIBER OPTIC BOX	⊗	STORM SEWER MANHOLE
⊗	TELEVISION PEDESTAL	⊗	SANITARY SEWER CLEANOUT
⊗	TELEVISION BOOTH	⊗	ELECTRIC BOX
⊗	GRATE INLET	⊗	BREAKER BOX
⊗	4"x4" WOOD POST	⊗	ELECTRIC METER
⊗	BOLLARD	⊗	ELECTRIC RISER
⊗	STEEL POST	⊗	TRANSFORMER
⊗	COLUMN	⊗	POWER POLE
⊗	SIGN	⊗	POWER POLE/W LIGHT
⊗	TREE	⊗	GUY WIRE
X G	SPRINKLER VALVE	⊗	LIGHT POLE
●	BOREHOLE	⊗	BUSH

UTILITY COMPANIES AND GOVERNING AGENCIES:

AT&T RON GIPFERT 500 E. 8TH STREET, ROOM 1146 KANSAS CITY, MISSOURI 64106 (816) 275-1550 EMAIL: RG7910@ATT.COM	LEE'S SUMMIT R-7 SCHOOL DISTRICT KINZIE WOODERSON 301 NE TUDOR ROAD LEE'S SUMMIT, MO 64086 (816) 986-1050 KINZIE.WOODERSON@RS7.NET
EVERGY JEFF R. WILLIAMS—ENGINEER—CENTRAL DESIGN 401 SE BAILEY ROAD LEE'S SUMMIT, MO 64081 (816) 347-4310 EMAIL: JEFF.WILLIAMS@KCPL.COM	LEE'S SUMMIT WATER UTILITIES 1200 SE HAMLEN ROAD LEE'S SUMMIT, MO 64081 (816) 969-1900
CONSOLIDATED COMMUNICATIONS JOHN CASTLOW 14859 W. 95TH STREET LENEXA, KS 66215 (913) 322-9785 JOHN.CASTLOW@CONSOLIDATED.COM	WASTE WATER LEE'S SUMMIT WATER UTILITIES 1200 SE HAMLEN ROAD LEE'S SUMMIT, MO 64081 (816) 969-1900
GOOGLE FIBER LAUREN MARCUCCI (913) 663-1100 LMARCUCCI@GOOGLE.COM	SPIRE GAS RICHARD FROCK 3025 SE CLOVER DRIVE LEE'S SUMMIT, MO 64082 (816) 472-3489 RICHARD.FROCK@SPIREENERGY.COM
	CHARTER/SPECTRUM TROY PREWITT 8221 W. 119TH STREET OVERLAND PARK, KS 66213 (816) 401-3573 TROY.PREWITT@CHARTER.COM



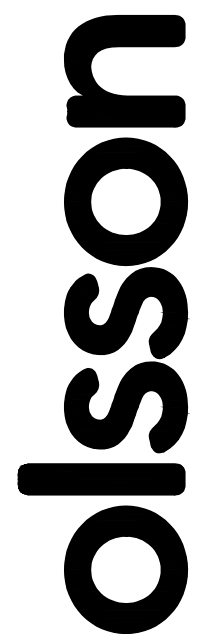
PROPERTY DESCRIPTION

All that part of an unplatted tract of land, together with all that part of North Main Street right of way, all lying in the West Half of Section 31, Township 48 North, Range 31 West, lying in the City of Lee's Summit, Jackson County, Missouri, described by Patrick Ethan Ward, MO PLS-20050071, of Olsson MOLL-C-366, on October 14, 2021, as follows:

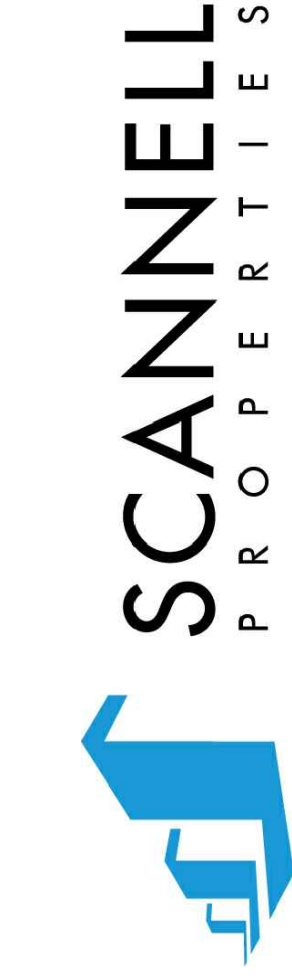
BEGINNING at the Northeast corner of the Southwest Quarter of Section 31, Township 48 North, Range 31 West; thence South 01 degrees 59 minutes 47 seconds West, on the East line of said Southwest Quarter, a distance of 65.98 feet to a point on the West line of NW Sloan Street right of way, as established in Document 2013E0075031, said point also lying on a non-tangent curve; thence in a Southerly direction, departing said East line, on said West line and on a curve to the right whose initial tangent bears South 02 degrees 47 minutes 37 seconds West, having a radius of 970.00 feet, through a central angle of 6 degrees 27 minutes 07 seconds, an arc distance of 109.23 feet to a point of tangency; thence South 09 degrees 14 minutes 44 seconds West, continuing on said West line, a distance of 111.80 feet to a point of curvature; thence in a Southerly direction, continuing on said West line and on a curve to the left, having a radius of 1030.00 feet, through a central angle of 7 degrees 14 minutes 57 seconds, an arc distance of 130.32 feet to a point of tangency; thence South 01 degree 59 minutes 47 seconds West, continuing on said West line, a distance of 69.49 feet to a point on the North line of NE Tudor Road right of way, as established in said Document 2013E0075031; thence South 46 degrees 15 minutes 48 seconds West, departing said West line, on said North line, a distance of 46.09 feet to a point; thence North 89 degrees 24 minutes 16 seconds West, continuing on said North line, and on the North line of NW Tudor Road right of way, as established in Document 2013E0075030, a distance of 1249.23 feet to a point on the East line of Union Pacific Railroad right of way, as now established, said point also lying on a non-tangent curve; thence in a Northerly and Northwesterly direction, departing said North line, on said East line and on a curve to the left whose initial tangent bears North 15 degrees 46 minutes 27 seconds West, having a radius of 3203.90 feet, through a central angle of 22 degrees 48 minutes 11 seconds, an arc distance of 1275.12 feet to a point of tangency; thence North 38 degrees 34 minutes 39 seconds West, continuing on said East line, a distance of 738.40 feet to a point of curvature; thence in a Northwesterly direction, continuing on said East line and on a curve to the right, having a radius of 5981.13 feet, through a central angle of 2 degrees 39 minutes 22 seconds, an arc distance of 277.27 feet to a point on the North line of the South Half of the Northwest Quarter of said Section 31, said point also lying on a non-tangent line; thence South 87 degrees 40 minutes 30 seconds East, departing said East line, on said North line, a distance of 884.17 feet to a point on a non-tangent curve; thence in a Southeasterly direction, departing said North line, on a curve to the right whose initial tangent bears South 45 degrees 29 minutes 38 seconds East, having a radius of 544.00 feet, through a central angle of 16 degrees 50 minutes 44 seconds, an arc distance of 159.94 feet to a point of tangency; thence South 28 degrees 38 minutes 55 seconds East a distance of 437.58 feet to a point of curvature; thence in a Southeasterly and Easterly direction, on a curve to the left, having a radius of 476.00 feet, through a central angle of 63 degrees 19 minutes 59 seconds, an arc distance of 526.16 feet to a point of tangency; thence North 88 degrees 01 minute 06 seconds East a distance of 416.85 feet to a point of curvature; thence in an Easterly and Southeasterly direction, on a curve to the right, having a radius of 544.00 feet, through a central angle of 65 degrees 51 minutes 08 seconds, an arc distance of 625.24 feet to a point on a non-tangent line, said point also lying on the East line of said Northwest Quarter; thence South 01 degree 53 minutes 30 seconds West, on said East line, a distance of 338.00 feet to the POINT OF BEGINNING, containing 2,375,437 Square Feet or 54.5325 Acres, more or less.




THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF THE SENATE BILL NUMBER 583, 78TH GENERAL ASSEMBLY OF THE STATE OF MISSOURI. THE BILL REQUIRES THAT ANY PERSON OR FIRM DOING EXCAVATION ON PUBLIC RIGHT-OF-WAY DO SO ONLY AFTER GIVING NOTICE TO, & OBTAINING INFORMATION FROM, UTILITY COMPANIES. STATE LAW REQUIRES 48 HOURS ADVANCE NOTICE. CALL 1-800-DIG-RITE.



7301 West 133rd Street, Suite 200
Overland Park, KS 66213-4756
TEL 913.381.1170
www.olsson.com



SCANNELL
P R O P E R T I E S



MISSOURI
MITCHELL ALAN EICK
PE 200900187
03-19-22

REV.	NO.	DATE	REVISIONS DESCRIPTION
1	1	12/28/2021	CITY COMMENTS
2	2	01/05/2022	CITY COMMENTS AND OWNER CHANGES
3	3	02/03/2022	CITY & EVERGY COMMENTS
4	4	02/24/2022	CITY COMMENTS

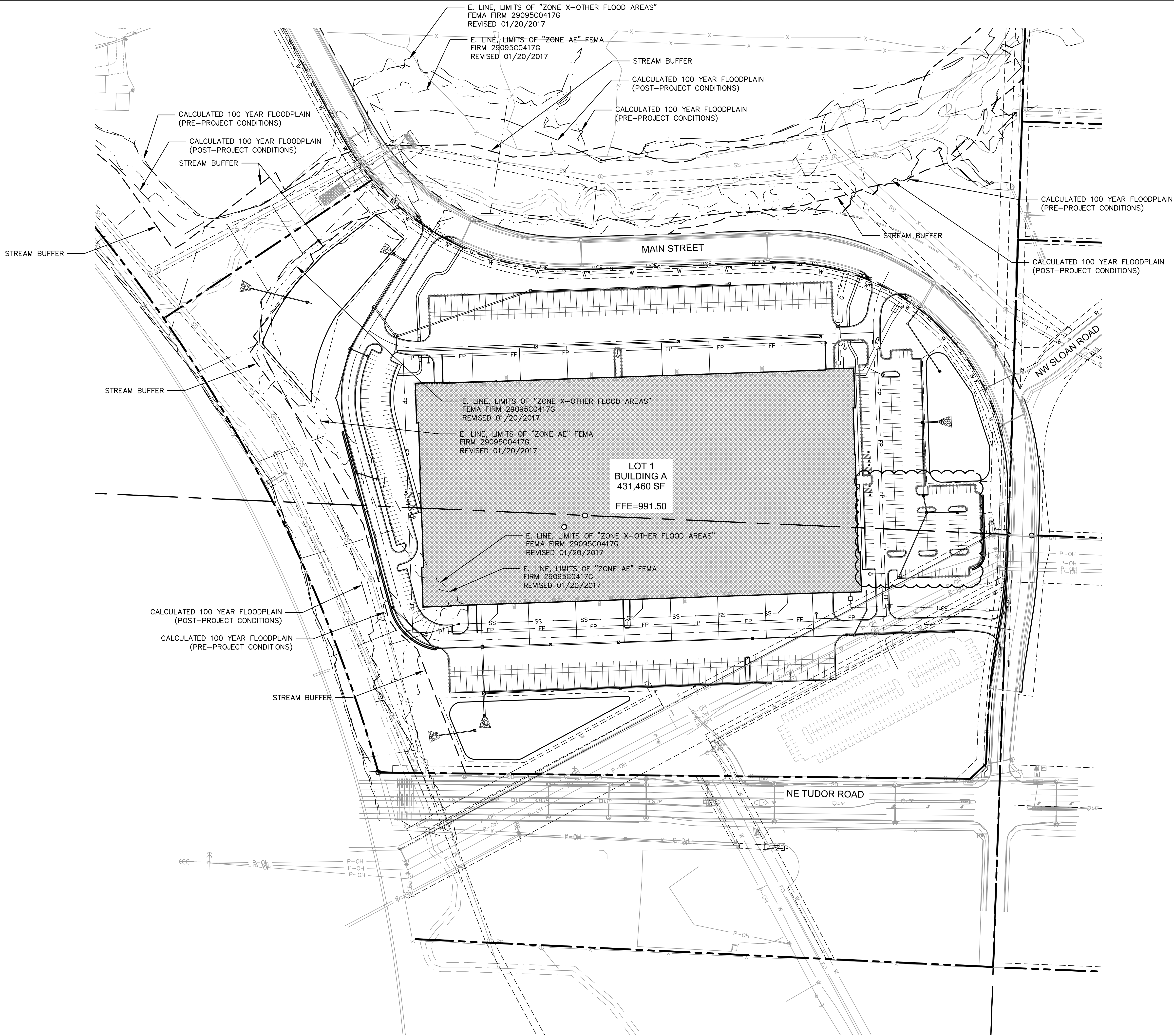
COVER SHEET
PHASE 1/FINAL DEVELOPMENT PLAN
SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET
LEE'S SUMMIT, MISSOURI

2021

REVISIONS

drawn by: OLSSON
checked by: ENG
approved by: ENG
GNCV: ENG
project no.: 021-04157
drawing no.: 021-04157.dwg
date:

SHEET
C0.01



BUILDING & SITE DATA							
ZONING							
NO. OF STORIES	BLDG HEIGHT	USE	BUILDING SQ. FT.	PARKING REQUIRED	PARKING PROVIDED	FLOOR AREA RATIO	LOT AREA
1	48 FT	BUILDING A WAREHOUSE	431,460 S.F.	1 STALL PER 1000 SF (432 STALLS)	320 STALLS (159 FUTURE STALLS)	0.26	37.90 ACRES
LOT 1 PROPOSED OPEN SPACE= 788,745 S.F. (18.107 ACRES) 47.86%							
REQUIRED OPEN SPACE= REFERENCE LANDSCAPE PLAN							
LOT 1 PROPOSED IMPERVIOUS AREA= 858,965 S.F. (19.719 ACRES)							

PROPERTY DESCRIPTION

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PROPERTY OWNER/ DEVELOPER

SCANNELL PROPERTIES #603, LLC
8801 RIVER CROSSING BLVD, SUITE 300
INDIANAPOLIS, IN 46240
PH: 317-218-1648

ENGINEER/ LANDSCAPE ARCHITECT

OLSSON
7301 W. 133RD STREET, SUITE 200
OVERLAND PARK, KS 66213
PH: 913-381-1170
F: 913-381-1174

PROPOSED SITE USE

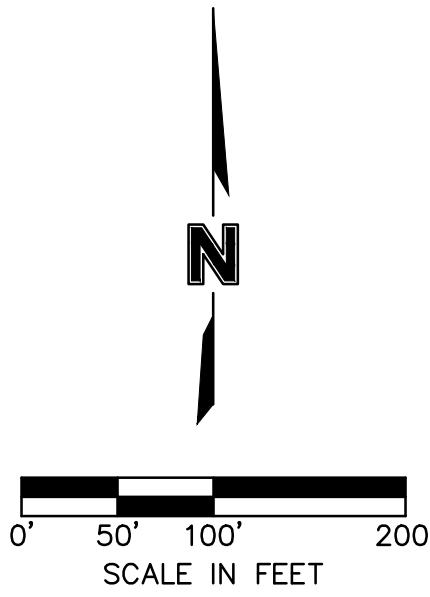
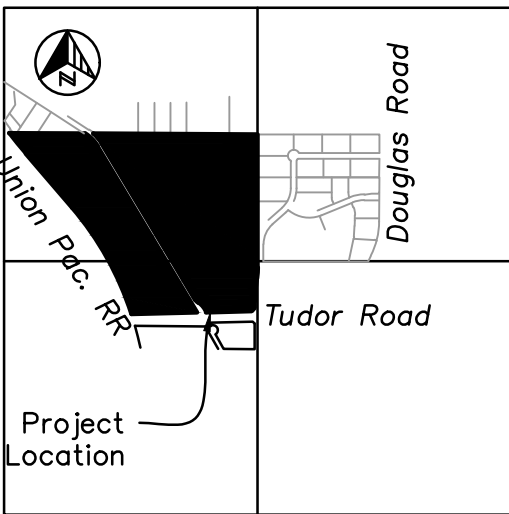
INDUSTRIAL

EXISTING & PROPOSED ZONING

SITE AREA

NET SITE AREA= 3,439,837 SQ. FT., (78.9678 AC±)

LEGEND	
	PROPERTY LINE
	SECTION LINE
	FEMA FLOOD PLAIN LIMITS
	LOT LINE
	FENCE



GENERAL LAYOUT PLAN
PHASE I/FINAL DEVELOPMENT PLAN

SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET

LEE'S SUMMIT, MISSOURI

drawn by: OLSSON
checked by: ENG
approved by: ENG
GNOC by: ENG
project no.: 021-04157
drawing no.: 021-04157.dwg
date:

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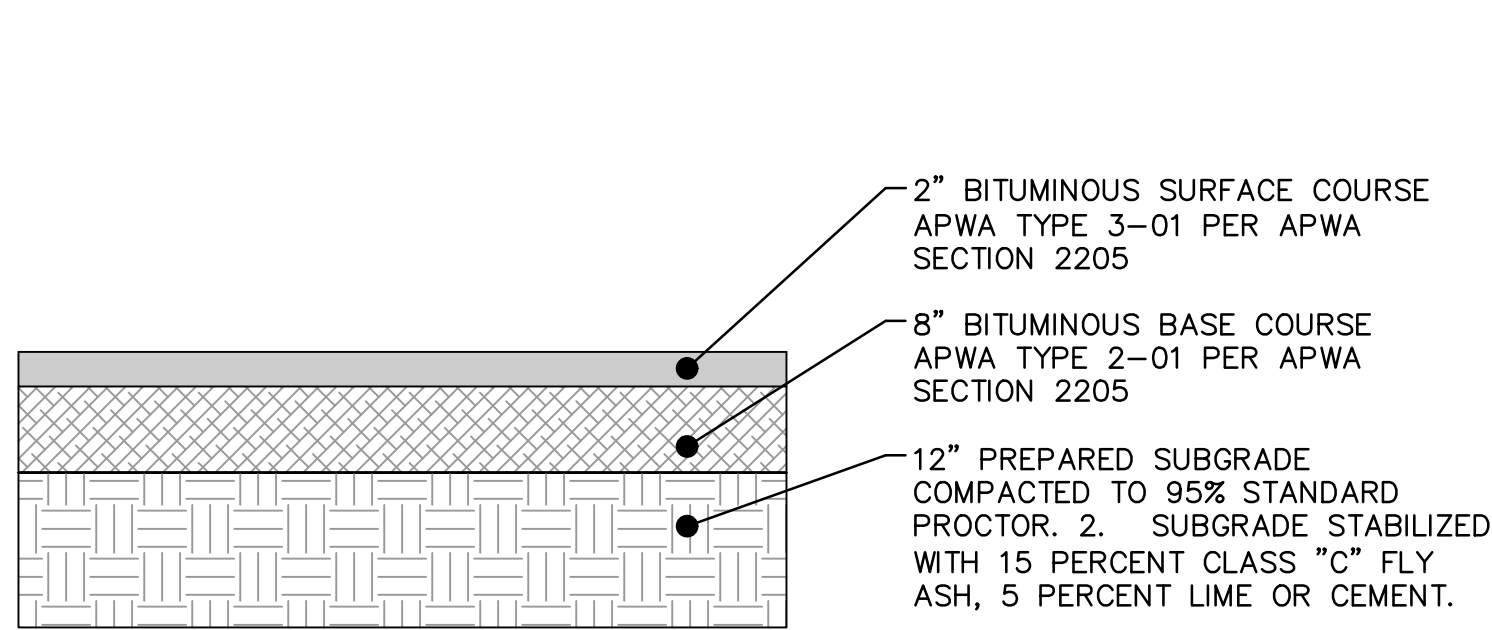
REV.	NO.	DATE	REVISIONS DESCRIPTION
1	1	12/28/2021	CITY COMMENTS
2	2	01/05/2022	CITY COMMENTS
3	3	02/03/2022	CITY & ENGINEER COMMENTS
4	4	02/24/2022	CITY COMMENTS
REVISIONS			
2021			



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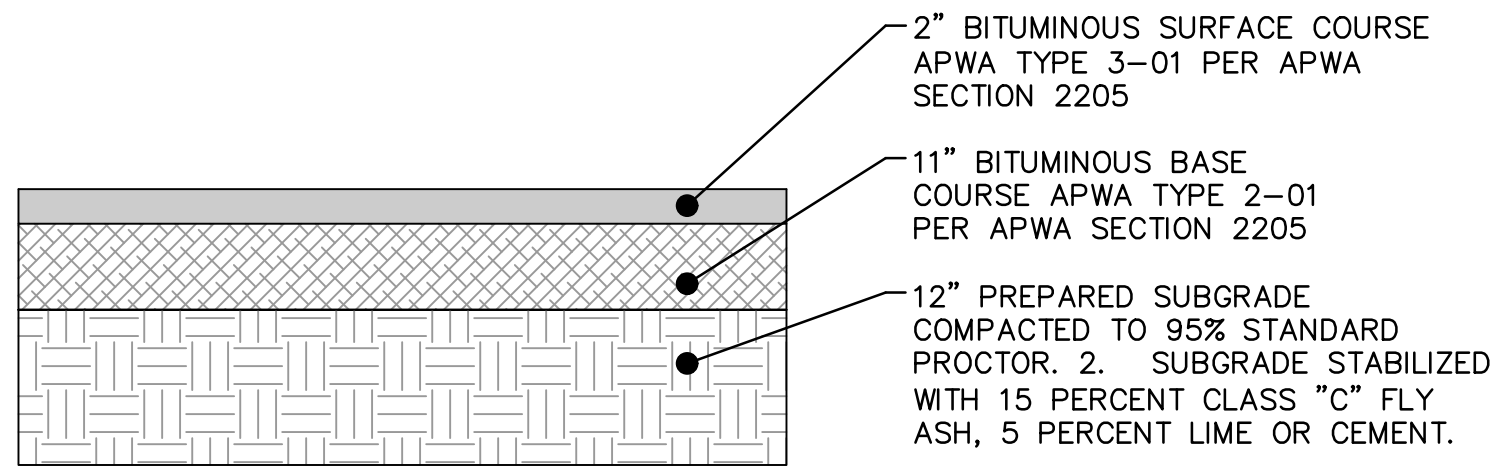
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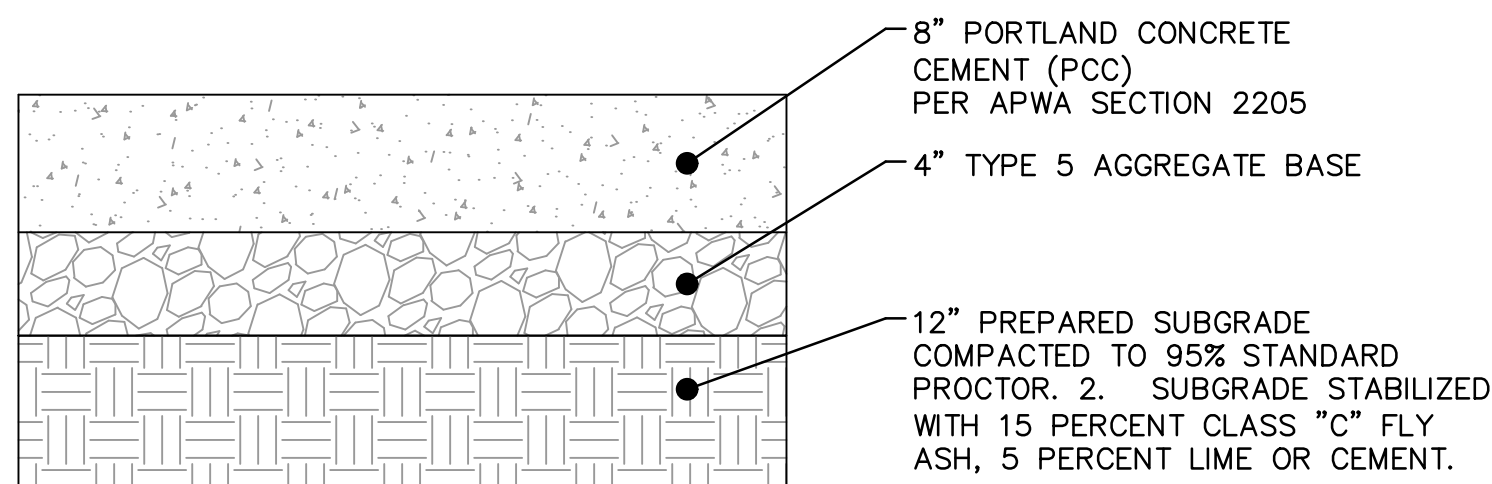
MEDIUM DUTY ASPHALT PAVEMENT SECTION

NOT TO SCALE
PER GEOTECHNICAL REPORT



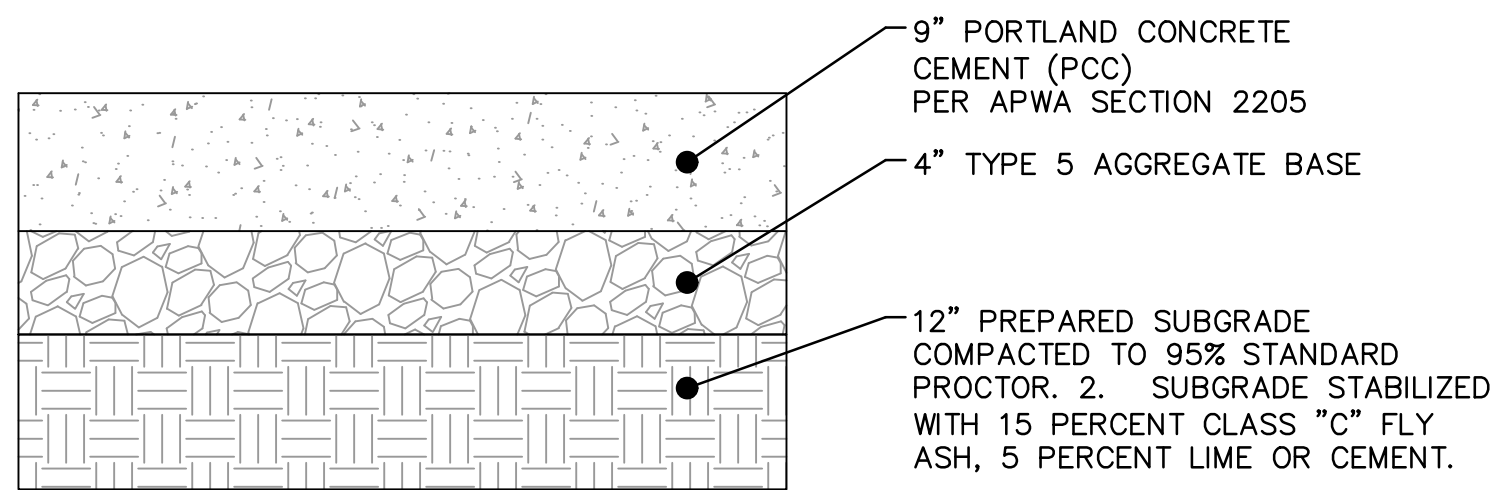
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NOT TO SCALE
PER GEOTECHNICAL REPORT



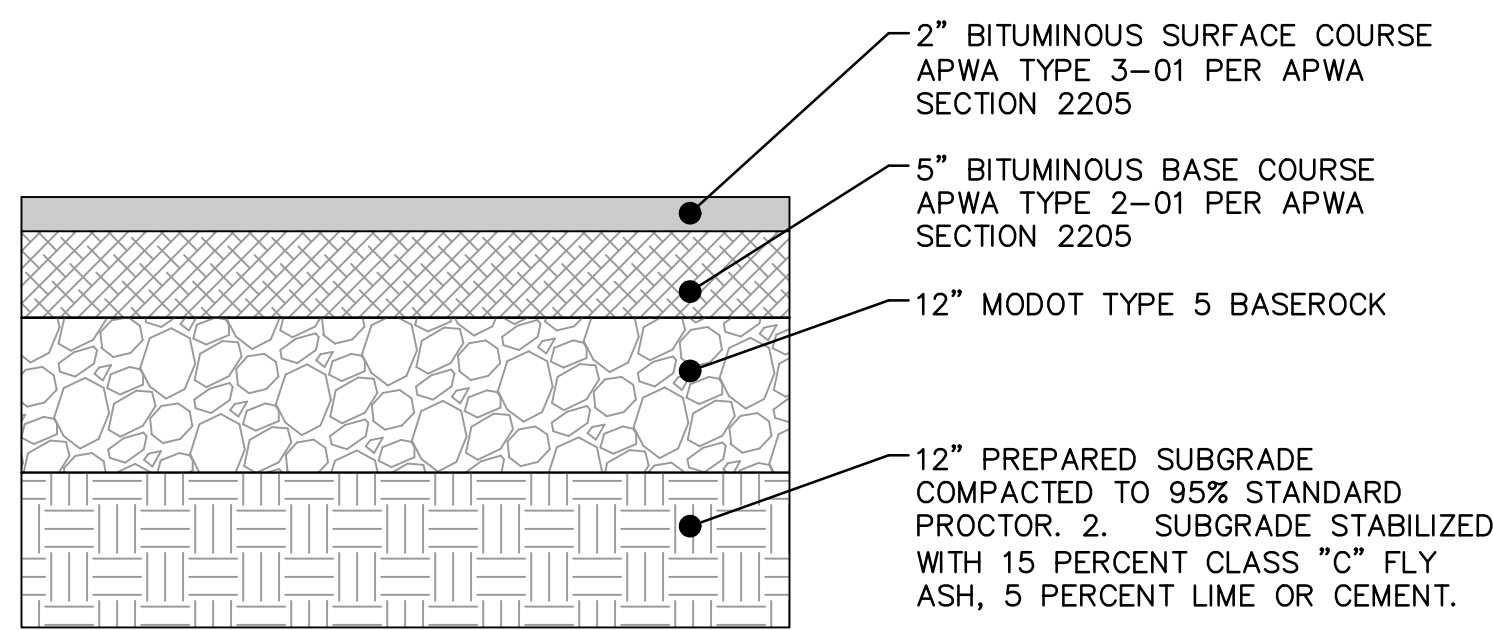
MEDIUM DUTY CONCRETE PAVEMENT SECTION

NOT TO SCALE
PER GEOTECHNICAL REPORT



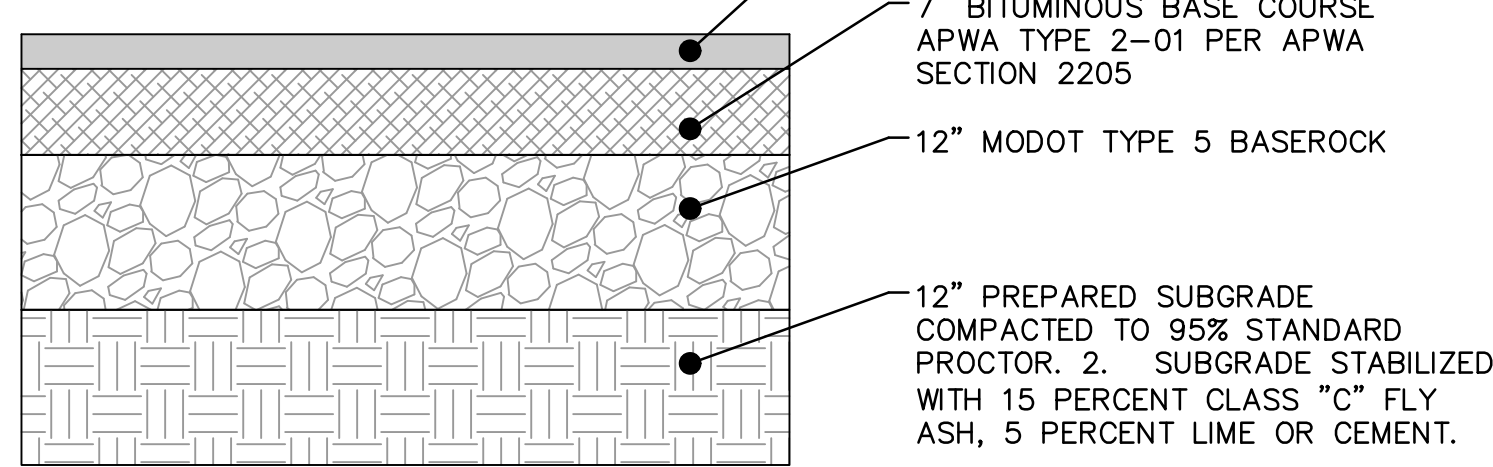
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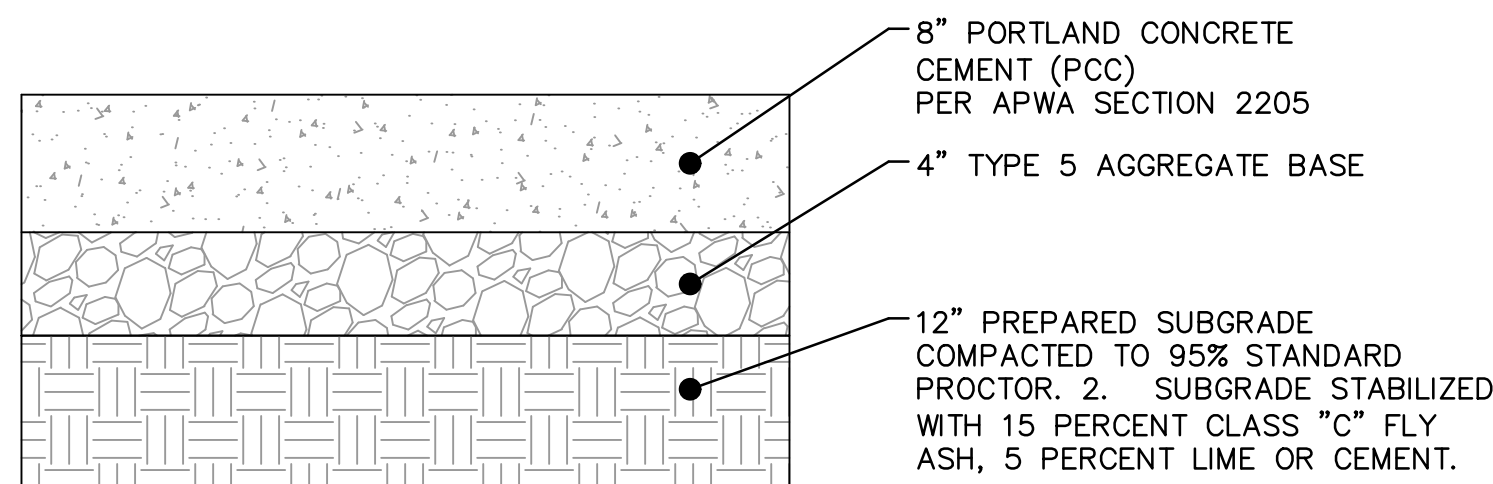
MEDIUM DUTY ASPHALT PAVEMENT SECTION

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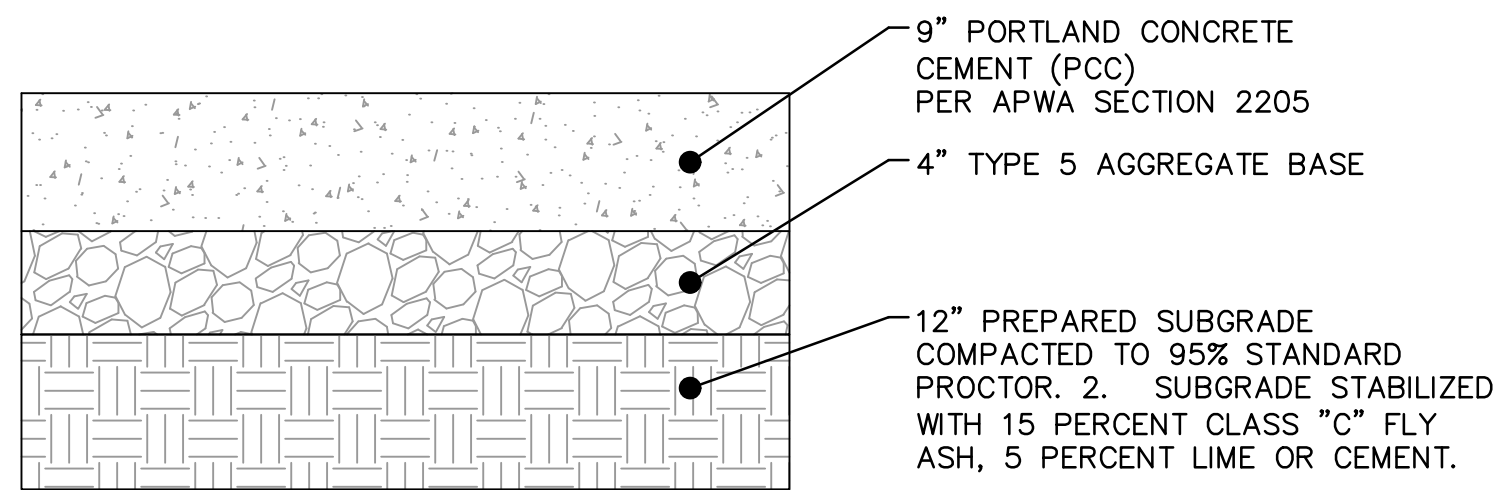
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MEDIUM DUTY CONCRETE PAVEMENT SECTION

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PER GEOTECHNICAL REPORT



HEAVY DUTY CONCRETE PAVEMENT SECTION

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NOTE

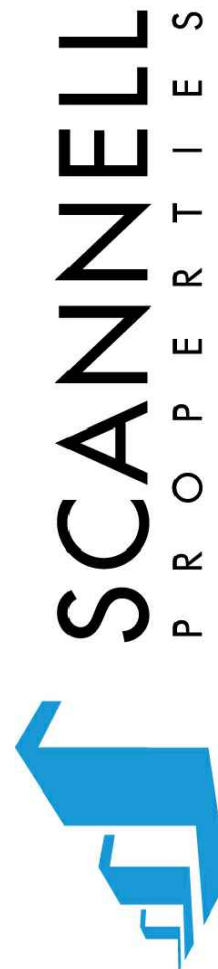
- ALL CONSTRUCTION, SITE PREPARATION, GRADING, AND EXCAVATION PROCEDURES SHALL CONFORM TO RECOMMENDATIONS AS OUTLINED IN THE GEOTECHNICAL REPORT INCLUDING ADDENDUMS. CONTRACTOR SHALL CONTACT ENGINEER WITH ANY DISCREPANCIES OR CONCERNS BASED ON ACTUAL SITE CONDITIONS.
- GEOTECHNICAL REPORT GOVERNS ONLY IF IT MEETS OR EXCEEDS CITY REQUIREMENTS.
- SUBGRADE STABILIZED WITH 15 PERCENT CLASS "C" FLY ASH, 5 PERCENT LIME OR CEMENT.

TYPICAL ROADWAY & PAVEMENT SECTIONS
PHASE I FINAL DEVELOPMENT PLAN

SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET

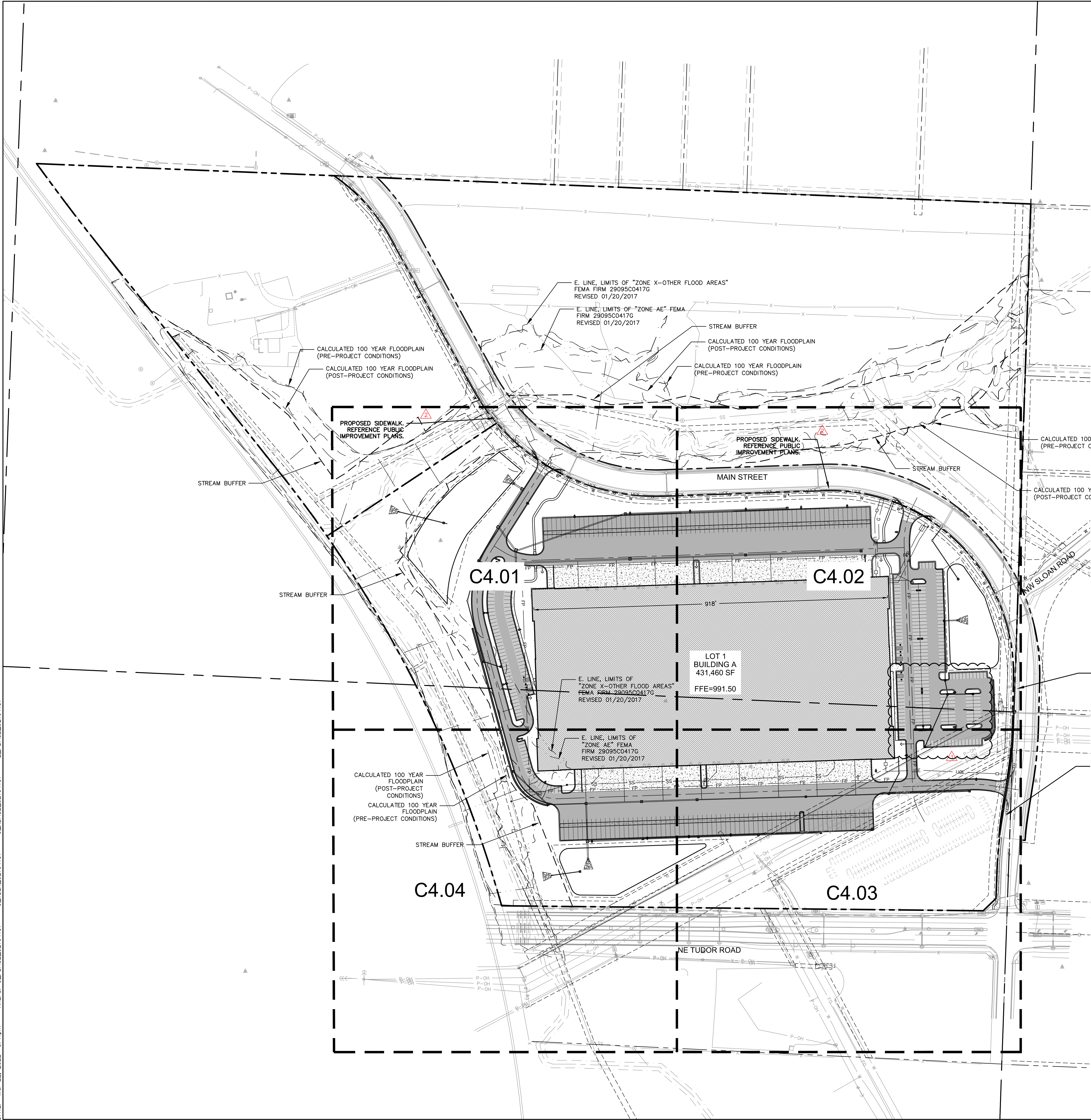
LEE'S SUMMIT, MISSOURI

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	12/28/2021	CITY COMMENTS	
2	01/05/2022	CITY COMMENTS	
3	01/05/2022	CITY COMMENTS	
4	02/24/2022	CITY COMMENTS	
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DATE: Mar 22, 2022 3:41pm XREFS: C_PBASE_02104157 C_XBASE_02104157 E_PBASE_02104157



DIMENSION PLAN LEGEND

- PROPERTY LINE
- LOT LINE
- UTILITY EASEMENT
- BUILDING SET/BACK/LANDSCAPE BUFFER
- SAWCUT PAVEMENT FULL DEPTH
- ADA PATH - SIDEWALKS NOT DELINEATED AS ADA PATHS WILL NOT BE ADA COMPLIANT.
- PROPOSED STORM SEWER
- INSTALL STANDARD "WET" CURB & GUTTER (PER LEE'S SUMMIT STANDARD DETAIL)
- INSTALL STANDARD "DRY" CURB & GUTTER (PER LEE'S SUMMIT STANDARD DETAIL)
- INSTALL "ADA RAMP" CURB & GUTTER (PER LEE'S SUMMIT STANDARD DETAIL)
- INSTALL MEDIUM DUTY ASPHALT SEE PAVEMENT SECTION ON C3.00
- INSTALL HEAVY DUTY ASPHALT SEE PAVEMENT SECTION ON C3.00
- INSTALL HEAVY DUTY CONCRETE SEE PAVEMENT SECTION ON C3.00
- INSTALL CONCRETE SIDEWALK SEE PAVEMENT SECTION ON C3.00
- PROPOSED LIGHT POLE
- PROPOSED PARKING STALL COUNT

olsson

7301 West 133rd Street, Suite 200
Overland Park, KS 66213-7756
TEL 913.381.1170
www.olson.com

SCANNELL

PROPERTIES

STATE OF MISSOURI

RECEIVED

MITCHELL ALAN

REGISTERED PROFESSIONAL ENGINEER

NUMBER

FE-2009010104

EXPIRATION DATE

03-27-2024

BY

DATE

REVISIONS DESCRIPTION

REV. NO.

1

12/24/2021

CITY COMMENTS

2

03/03/2022

CITY COMMENTS

3

03/03/2022

CITY & EVERY COMMENTS

4

03/24/2022

CITY COMMENTS

OVERALL DIMENSION PLAN

PHASE 1/FINAL DEVELOPMENT PLAN

SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS

NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET

LEE'S SUMMIT, MISSOURI

drawn by:

checked by:

approved by:

GNAC by:

project no.:

drawing no.:

date:

OLSSON

ENG

ENG

ENG

021-04157

021-04157

02/10/2022

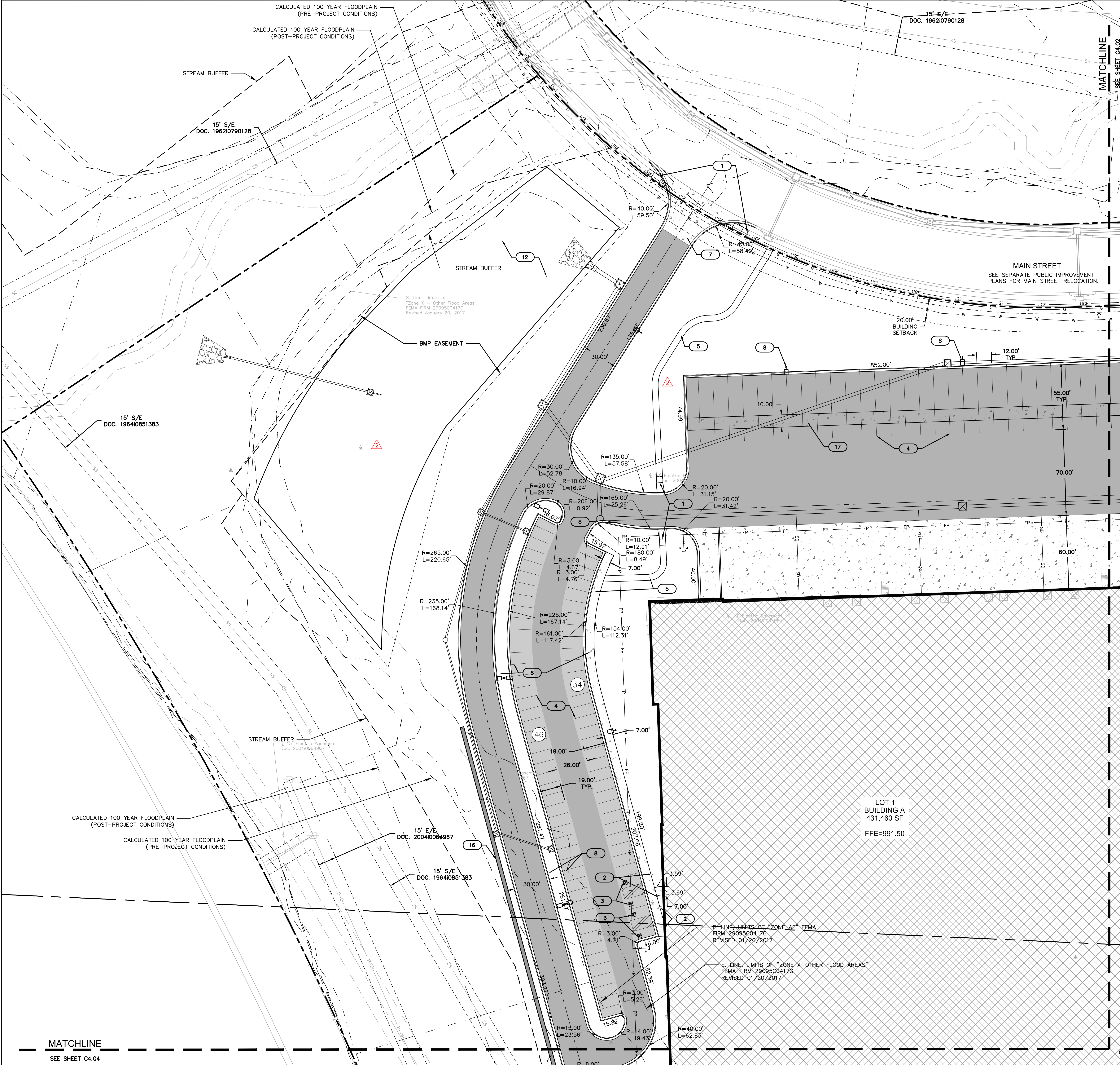
2021

REVISIONS

SHEET

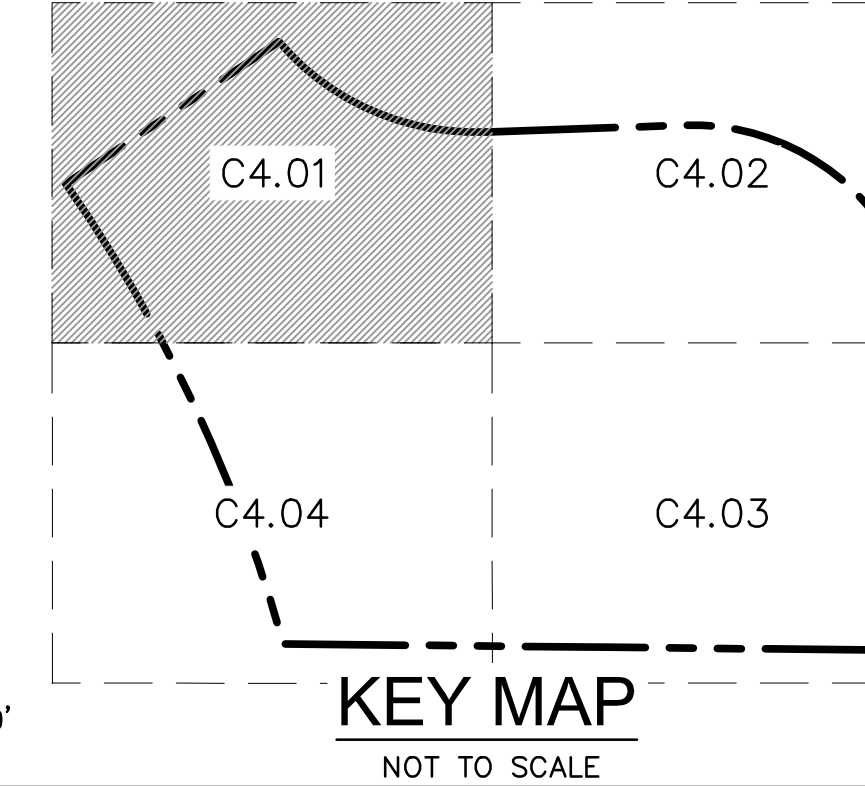
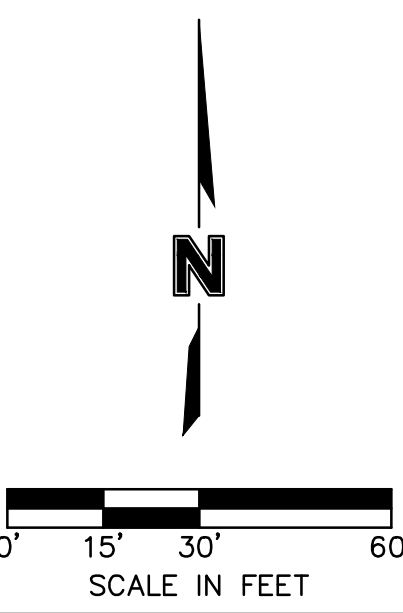
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DATE: Mar 22, 2022 3:41pm XREFS: C_PBASE_02104157 C_XBASE_02104157 E_PBASE_02104157



- DIMENSION PLAN LEGEND**
- PROPERTY LINE
 - LOT LINE
 - UTILITY EASEMENT
 - BUILDING SET/BACK/LANDSCAPE BUFFER
 - SAWCUT PAVEMENT FULL DEPTH
 - ADA PATH - SIDEWALKS NOT DELINEATED AS ADA PATHS WILL NOT BE ADA COMPLIANT.
 - PROPOSED STORM SEWER
 - INSTALL STANDARD "WET" CURB & GUTTER (PER LEE'S SUMMIT STANDARD DETAIL)
 - INSTALL STANDARD "DRY" CURB & GUTTER (PER LEE'S SUMMIT STANDARD DETAIL)
 - INSTALL "ADA RAMP" CURB & GUTTER (PER LEE'S SUMMIT STANDARD DETAIL)
 - INSTALL MEDIUM DUTY ASPHALT SEE PAVEMENT SECTION ON C3.00
 - INSTALL HEAVY DUTY ASPHALT SEE PAVEMENT SECTION ON C3.00
 - INSTALL HEAVY DUTY CONCRETE SEE PAVEMENT SECTION ON C3.00
 - INSTALL CONCRETE SIDEWALK SEE PAVEMENT SECTION ON C3.00
 - PROPOSED LIGHT POLE
 - PROPOSED PARKING STALL COUNT

- KEYNOTES**
- 1 CONSTRUCT ADA ACCESSIBLE RAMP. (SEE DETAIL SHEET)
 - 2 PROPOSED ADA ACCESSIBLE PARKING SIGN. (SEE DETAIL SHEET). SIGNS PROVIDED BY TENANT.
 - 3 ADA PARKING STALL LAYOUT. (SEE DETAIL SHEET)
 - 4 PROPOSED PAVEMENT STRIPING. (SEE PAVEMENT STRIPING PLAN)
 - 5 PROPOSED CONCRETE SIDEWALK. (SEE DETAIL SHEET)
 - 6 PROPOSED TRANSFORMER. (SEE MEP PLANS)
 - 7 PROPOSED CONCRETE APRON
 - 8 PARKING AND STREET LIGHTING. (SEE SEPARATE PLAN SET)
 - 9 PROPOSED ROOF DRAIN/DOWN SPOUT LOCATION. (SEE STORM SHEETS)
 - 10 INSTALL YIELD/STOP SIGNS. (SEE ARCH PLANS)
 - 11 PROPOSED TRAILER SPACING NUMBERING
 - 12 PROPOSED DRY DETENTION BASIN
 - 13 CONCRETE STAIRS (SEE DETAIL SHEET)
 - 14 PROPOSED EV CHARGING STATION(SEE MEP/ARCH PLANS)
 - 15 PROPOSED FIRE HYDRANT
 - 16 PROPOSED RETAINING WALL WITH TRAFFIC RATED RAILING/FENCE.
 - 17 PROPOSED TRAILER PARKING DOLLY STRIP.



olsson

7301 West 133rd Street, Suite 200
Overland Park, KS 66213-7756
TEL 913.381.1170
www.olson.com

SCANNELL
PROPERTIES

STATE OF MISSOURI
RECEIVED
MITCHELL ALAN
PE-2009010104
PROFESSIONAL ENGINEER

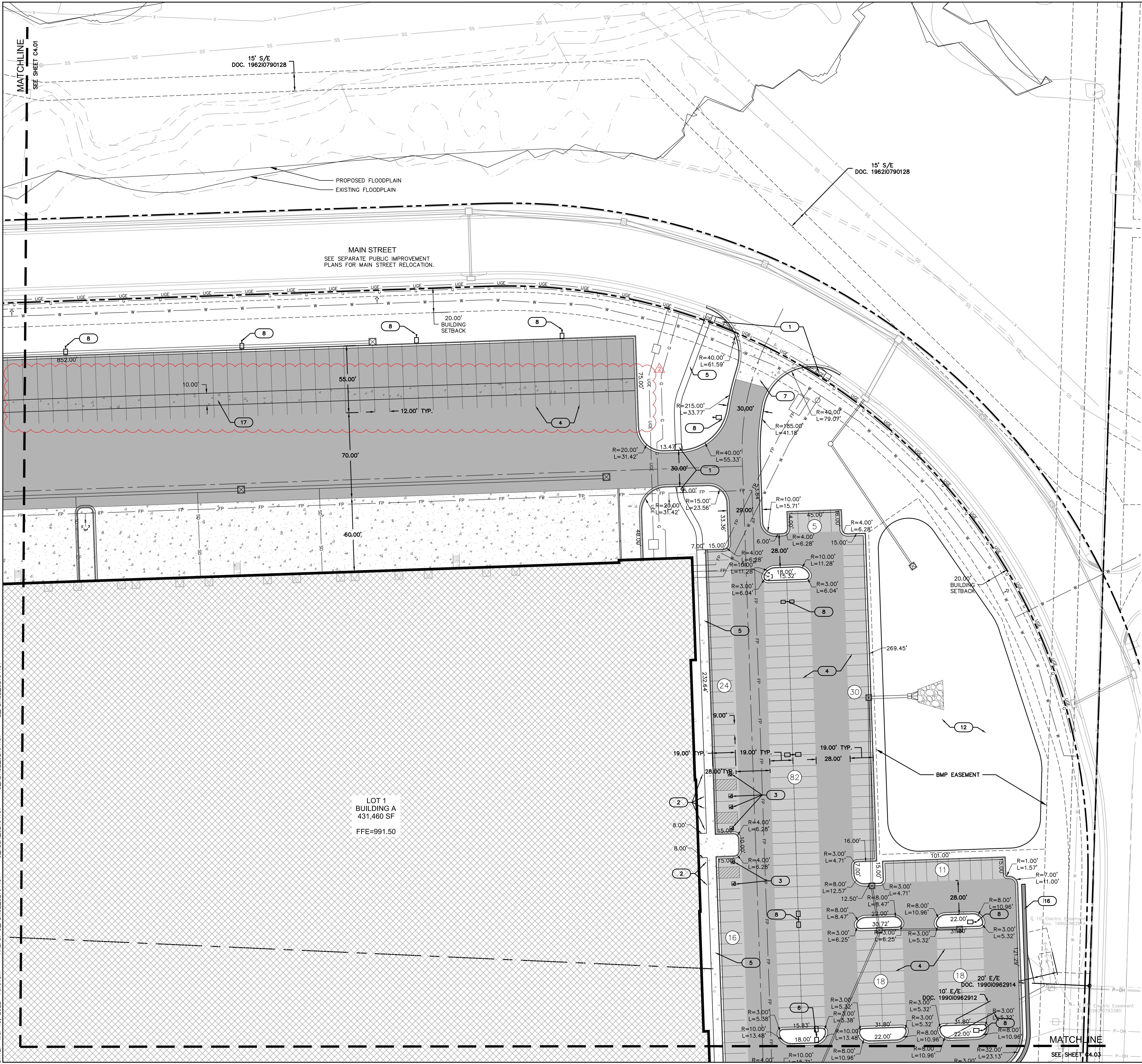
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2	2	01/03/2022	CITY COMMENTS
3	3	02/03/2022	CITY COMMENTS
4	4	02/24/2022	CITY COMMENTS

DIMENSION PLAN
PHASE I/FINAL DEVELOPMENT PLAN




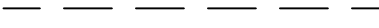


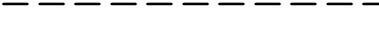



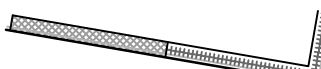



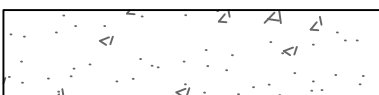
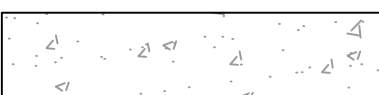


SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET
LEE'S SUMMIT, MISSOURI

drawn by: OLSSON
checked by: ENG
approved by: ENG
date: 02/14/2022
drawing no: 021-04157
drawing file: 02104157.dwg

SHEET
C4.01

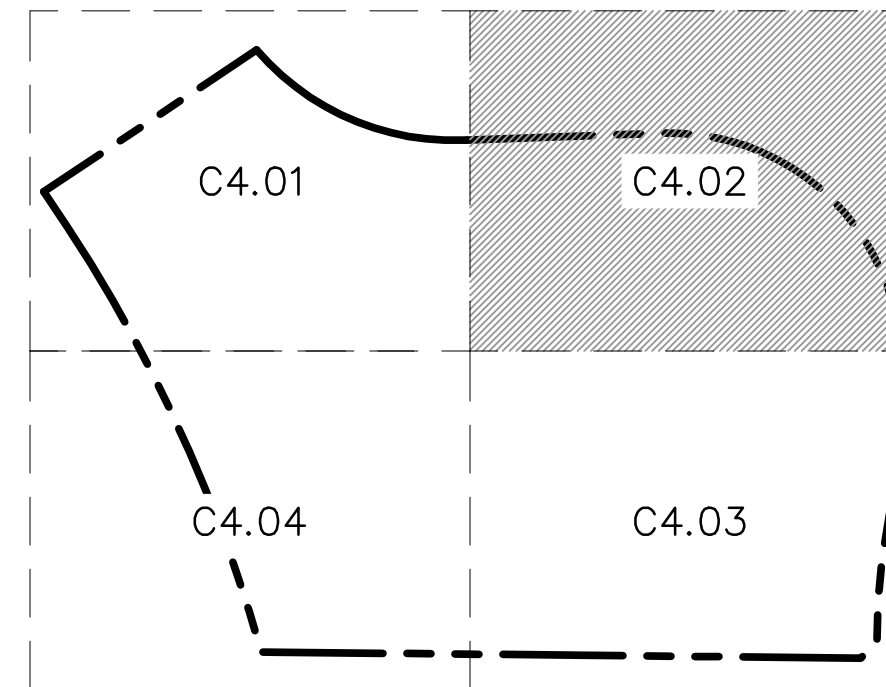


DIMENSION PLAN LEGEND

-  PROPERTY LINE
 LOT LINE
 UTILITY EASEMENT
 BUILDING SET/BACK/LANDSCAPE BUFFER
 SAWCUT PAVEMENT FULL DEPTH
 ADA PATH SIDEWALKS NOT
 DELINEATED AS ADA PATHS WILL NOT
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-  INSTALL STANDARD "WET" CURB & GUTTER
 (PER LEE'S SUMMIT STANDARD DETAIL)
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 SEE PAVEMENT SECTION ON C3.00
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 PAVEMENT SECTION ON C3.00
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 SEE PAVEMENT SECTION ON C3.00
-  PROPOSED LIGHT POLE
-  PROPOSED PARKING STALL COUNT

KEYNOTES

- 1) CONSTRUCT ADA ACCESSIBLE RAMP. (SEE DETAIL SHEET)
- 2) PROPOSED ADA ACCESSIBLE PARKING SIGN. (SEE DETAIL SHEET). SIGNS PROVIDED BY TENANT.
- 3) ADA PARKING SLAT LAYOUT. (SEE DETAIL SHEET)
- 4) PROPOSED PAVEMENT STRIPING. (SEE PAVEMENT STRIPING PLAN)
- 5) PROPOSED CONCRETE SIDEWALK. (SEE DETAIL SHEET)
- 6) PROPOSED TRANSFORMER. (SEE MEP PLANS)
- 7) PROPOSED CONCRETE APRON
- 8) PARKING AND STREET LIGHTING. (SEE SEPARATE PLAN SET)
- 9) PROPOSED ROOF DRAIN/DOWN SPOUT LOCATION. (SEE STORM SHEETS)
- 10) INSTALL YIELD/STOP SIGNS. (SEE ARCH PLANS)
- 11) PROPOSED TRAILER SPACING NUMBERING
- 12) PROPOSED DRY DETENTION BASIN
- 13) CONCRETE STAIRS (SEE DETAIL SHEET)
- 14) PROPOSED EV CHARGING STATION(SEE MEP/ARCH PLANS)
- 15) PROPOSED FIRE HYDRANT
- 16) PROPOSED RETAINING WALL WITH TRAFFIC RATED RAILING/FENCE.
- 17) PROPOSED TRAILER PARKING DOLLY STRIP.



NOT TO SCALE

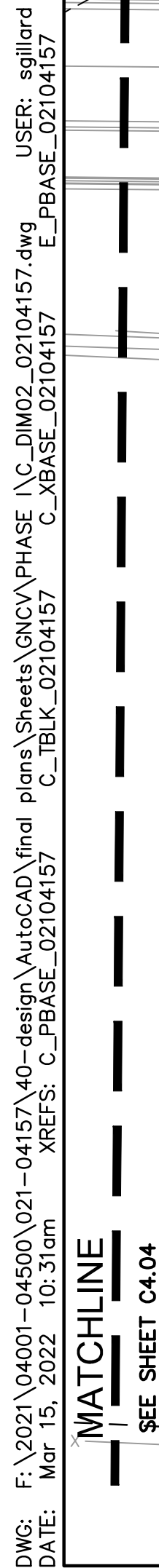
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0' 15' 30' 60'

SCALE IN FEET





SEE SHEET C4.04

DWG: F
DATE:

FFE=991.50

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OC. 1990i0962912

DOC. 2004i0064967

10' E/E
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5' W/E
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15' W/E

100' E/E
DOC 1062:0703380

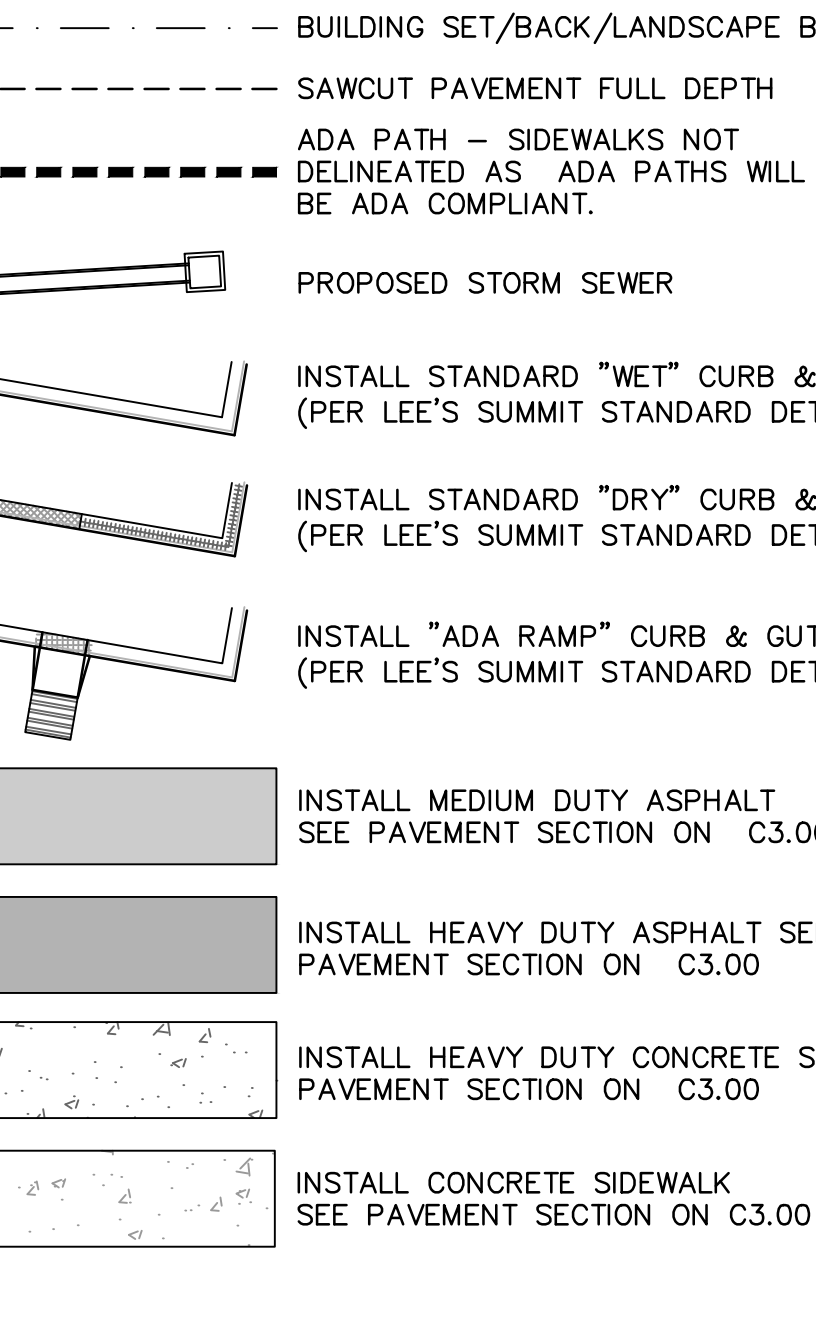
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TUDOR ROAD

SEE SHEET C4.02

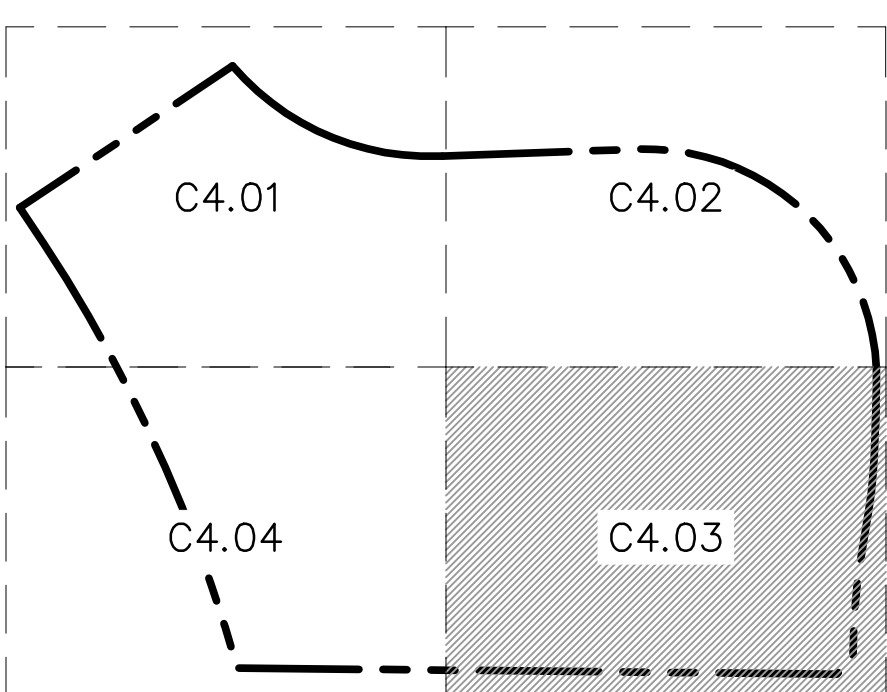
MAIN STREET

DIMENSION PLAN LEGEND

- 
- Legend for Plan View Symbols:
- PROPERTY LINE
 - LOT LINE
 - UTILITY EASEMENT
 - BUILDING SET/BACK/LANDSCAPE BUFFER
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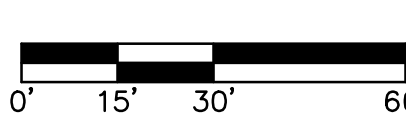
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NOT TO SCALE

NOT TO SCALE



nos/



SCANNELL
PROPERTIES



REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	12/04/2021	CITY COMMENTS	
2	01/07/2022	CITY COMMENTS AND OWNER CHANGES	
3	02/03/2022	CITY & ENERGY COMMENTS	
4	02/24/2022	CITY COMMENTS	

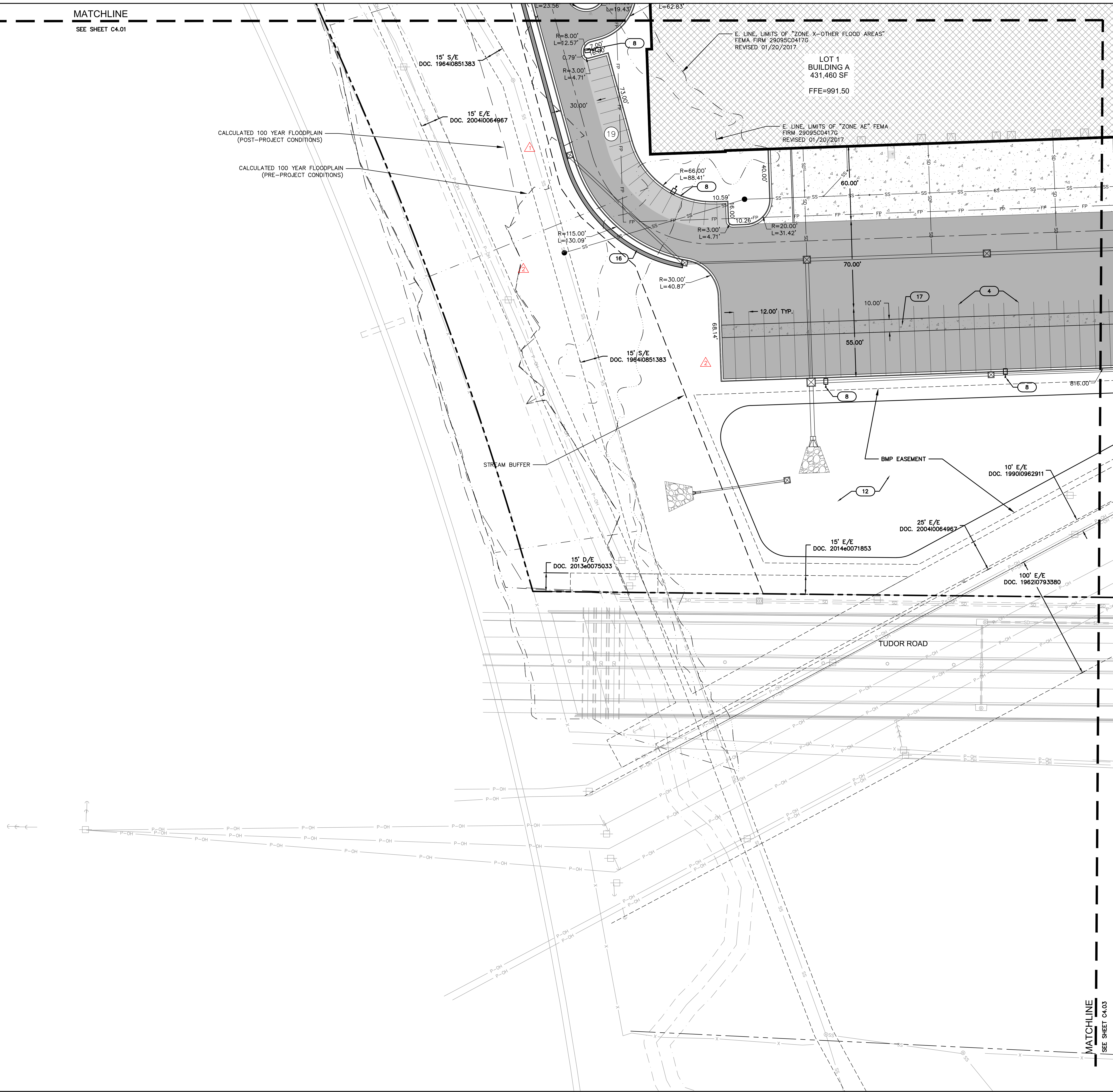
SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET

SHEET
C4.03








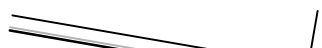





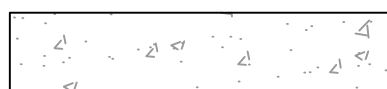


checked by: _____ ENG
approved by: _____ ENG
QA/QC by: _____ ENG
project no.: 021-04151
drawing no. DIM02 02104151.dwg

7301 West 133rd Street, Suite 200
Overland Park KS 66213-1750
TEL 913 381 1170
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SEE SHEET C4.01

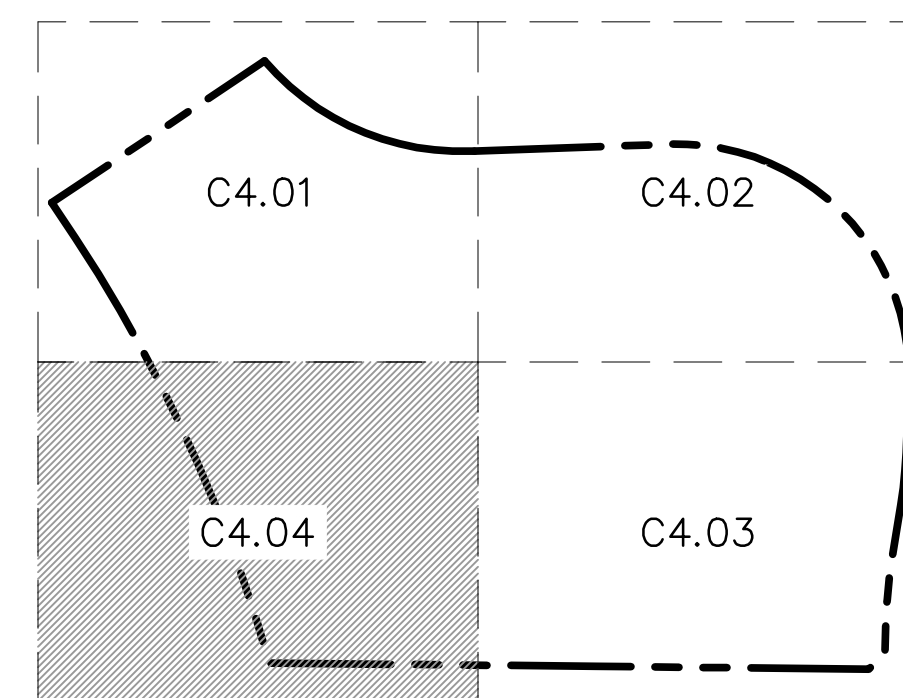


DIMENSION PLAN LEGEND

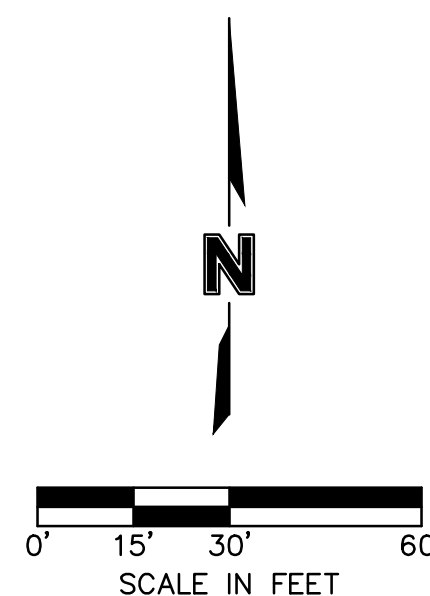
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-  PROPOSED LIGHT POLE
-  PROPOSED PARKING STALL COUNT

KEYNOTES

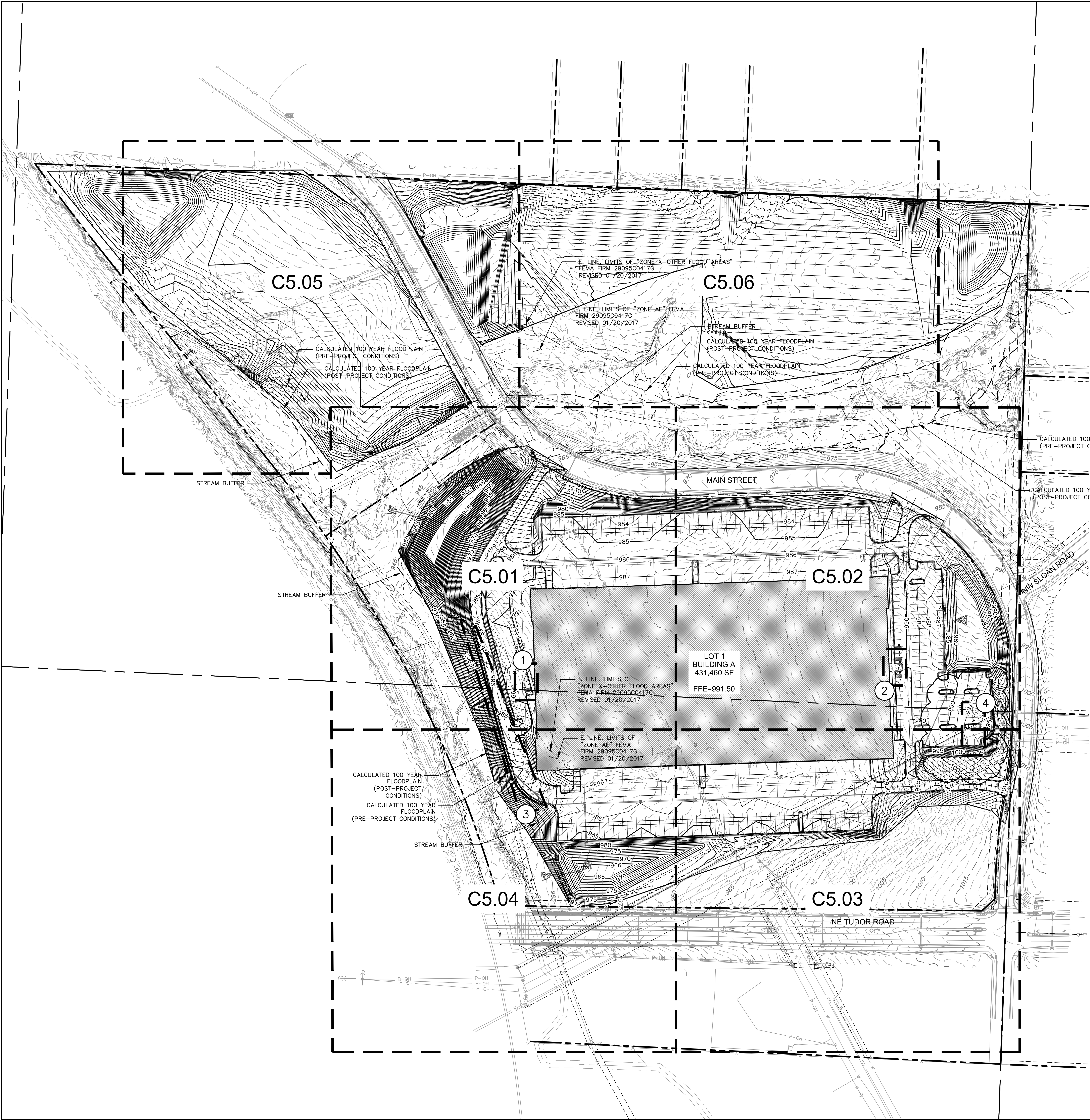
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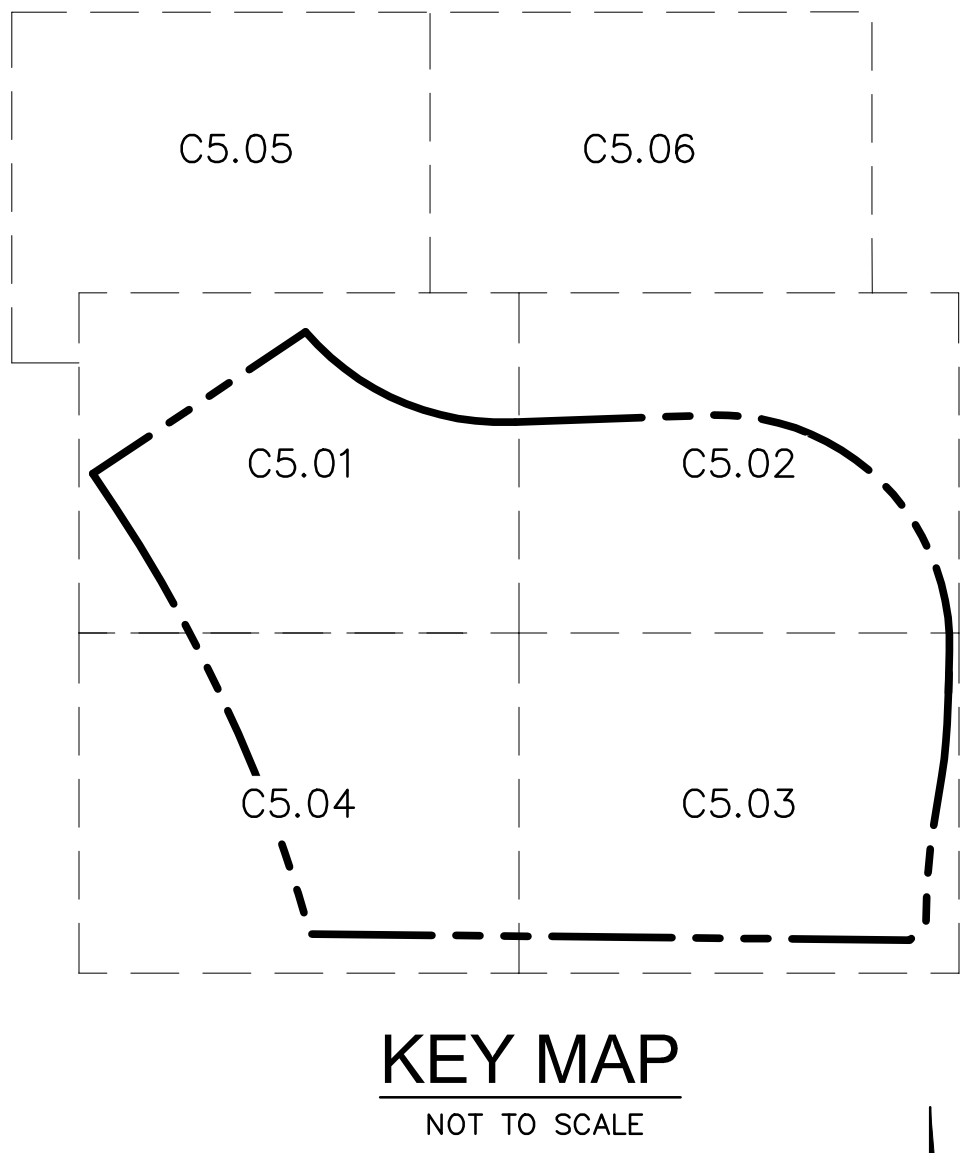
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LEGEND	
	PROPERTY LINE
	SURROUNDING PROPERTY LINES
	UTILITY EASEMENT
	PROPOSED CONTOURS
	EXISTING CONTOURS
	GRADE BREAK LINE
	RIDGE LINE
	VALLEY LINE
	GRADING DETAIL LOCATIONS (SHEETS C509-C515)



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SCANNELL PROPERTIES

OVERALL GRADING PLAN		BY	
PHASE I FINAL DEVELOPMENT PLAN			
SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS			
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET			
LEE'S SUMMIT, MISSOURI			
REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	12.28.2021	CITY COMMENTS	
2	01.05.2022	CITY COMMENTS AND OWNER CHANGES	
3	02.03.2022	CITY & OWNER COMMENTS	
4	02.24.2022	CITY COMMENTS	
REVISIONS			2021

drawn by: OLSSON

checked by: ENG

approved by: ENG

QA/QC by: ENG

project no: 021-04157

drawing no: 02104157.dwg

date:

SHEET C5.00

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LEGEND

---	PROPERTY LINE
---	SURROUNDING PROPERTY LINES
---	UTILITY EASEMENT
---	PROPOSED CONTOURS
---	EXISTING CONTOURS
---	GRADE BREAK LINE
---	RIDGE LINE
---	VALLEY LINE
(X)	GRADING DETAIL LOCATIONS (SHEETS C5.05-C5.07)

SPOT ELEVATION LEGEND:

ALL SPOT ELEVATIONS ARE TOP OF PAVEMENT ELEVATION UNLESS NOTED OTHERWISE. RE: PLAN VIEW, LEGEND AND DETAILS FOR CURB TYPE AND TO CALCULATE TOP OF CURB ELEVATION.

TC	TOP OF CURB
FG	FINISHED GRADE WITHIN GREENSPACE
TS	TOP OF STRUCTURE
FC	CURB DEPRESSED TO BE FLUSH WITH ADJACENT PAVEMENT
HP	HIGH POINT
LP	LOW POINT
ME±	MATCH EXISTING
FFE	FINISH FLOOR ELEVATION AT TOP OF SLAB
HFG	HIGH FINISHED GRADE
LFG	LOW FINISHED GRADE

- NOTES:**
- CONTRACTOR TO REMOVE AND REPLACE ALL SIDEWALK NECESSARY FOR CONNECTION TO EXISTING.
 - ALL ADA ACCESSIBLE SIDEWALK CROSS SLOPES SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.00% AND MAXIMUM LONGITUDINAL SLOPE OF 5.00%.
 - ALL ADA ACCESSIBLE PARKING AREAS SHALL NOT EXCEED 2.00% IN ANY DIRECTION.
 - CONTRACTOR TO PROVIDE FLAT A/C UNIT PADS FOR ALL A/C UNITS.
 - NO GRADES SHALL EXCEED 5:1 UNLESS OTHERWISE NOTED.
 - GRADING AND STORM SEWER IMPROVEMENTS SHALL BE STAKED, INCLUDING ALL HIGH POINTS AND KEY GRADE BREAKS.

KEY MAP
NOT TO SCALE

0' 15' 30' 60'
SCALE IN FEET

N

7301 West 133rd Street, Suite 200
Overland Park, KS 66213-7756
TEL 913.381.1170 www.olsson.com

SCANNELL PROPERTIES

MITCHELL ALAN BEIER
NUMBER PE-2009010164
STATE OF MISSOURI
PROFESSIONAL ENGINEER

BY	
REVISIONS DESCRIPTION	
REV. NO.	DATE
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2	01.03.2022
3	02.03.2022
4	02.24.2022

REVISIONS

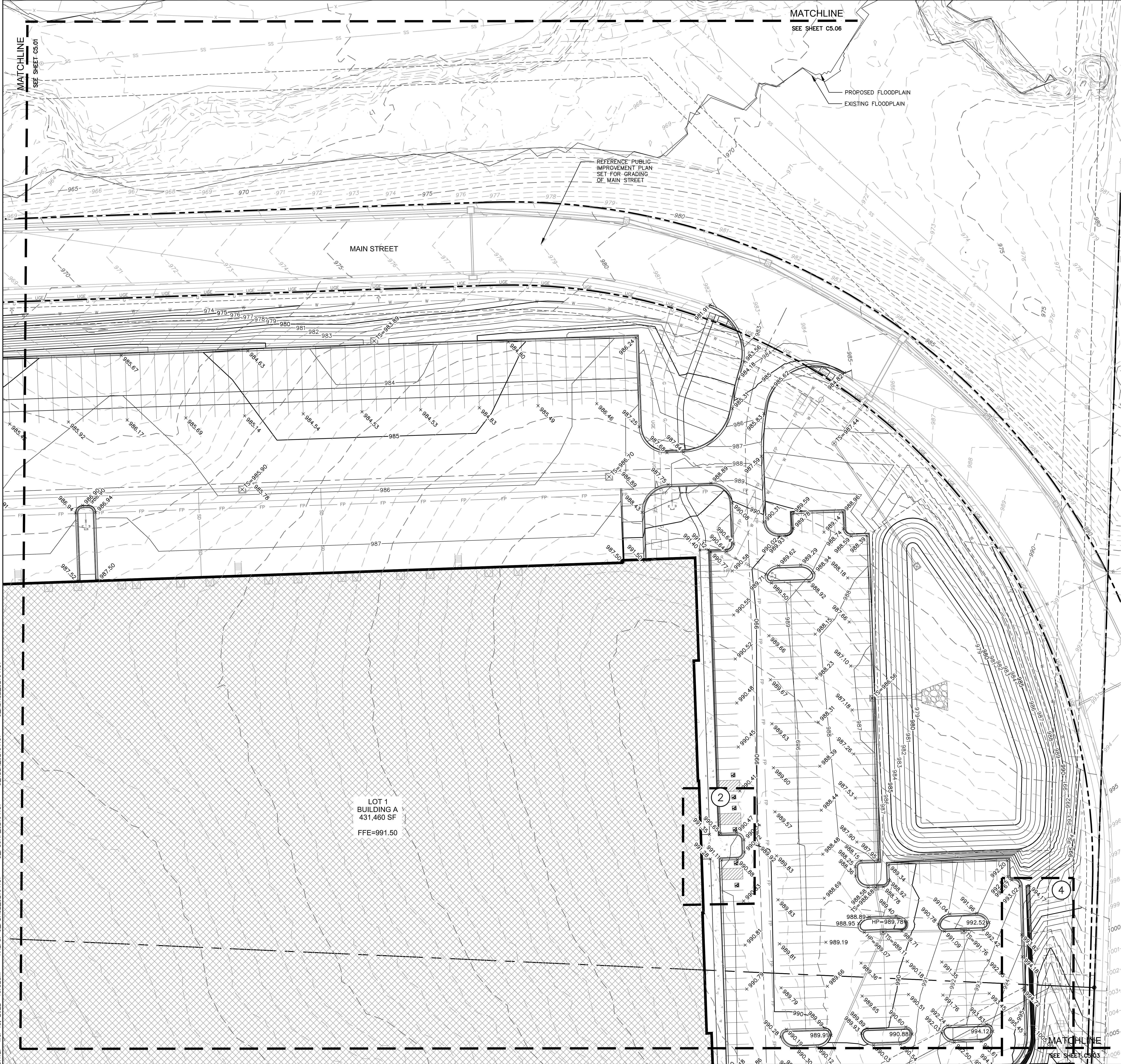
2021

GRADING PLAN
PHASE I FINAL DEVELOPMENT PLAN
SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET
LEE'S SUMMIT, MISSOURI

drawn by: OLSSON
checked by: ENG
approved by: ENG
QA/QC by: ENG
project no.: 021-04157
drawing no.: 02104157.dwg
date:

SHEET
C5.01

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MATCHLINE
SEE SHEET C5.06

PROPOSED FLOODPLAIN
EXISTING FLOODPLAIN

REFERENCE PUBLIC
IMPROVEMENT PLAN
SET FOR GRADING
OF MAIN STREET

MAIN STREET

LOT 1
BUILDING A
431,460 SF
FFE=991.50

LEGEND

- PROPERTY LINE
- SURROUNDING PROPERTY LINES
- UTILITY EASEMENT
- PROPOSED CONTOURS
- EXISTING CONTOURS
- GRADE BREAK LINE
- RIDGE
- RIDGE LINE
- VALLEY
- VALLEY LINE
- GRADING DETAIL LOCATIONS (SHEETS C5.05—C5.07)

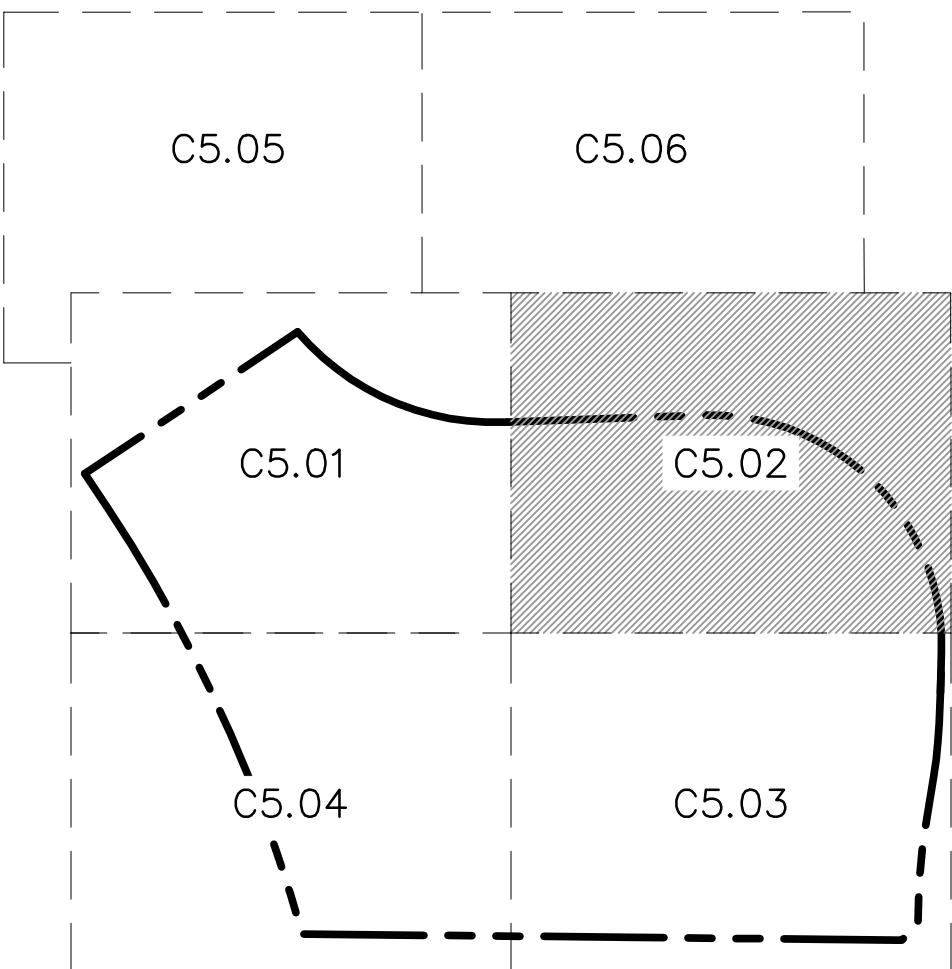
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- FG FINISHED GRADE WITHIN GREENSPACE
- TS TOP OF STRUCTURE
- FC CURB DEPRESSED TO BE FLUSH WITH ADJACENT PAVEMENT
- HP HIGH POINT
- LP LOW POINT
- WE± MATCH EXISTING
- FFE FINISH FLOOR ELEVATION AT TOP OF SLAB
- HFG HIGH FINISHED GRADE
- LFG LOW FINISHED GRADE

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KEY MAP
NOT TO SCALE



GRADING PLAN
PHASE I FINAL DEVELOPMENT PLAN

SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET

LEE'S SUMMIT, MISSOURI

drawn by: OLSSON
checked by: ENG
approved by: ENG
checked by: ENG
project no.: 021-04157
drawing no.: GRD02_02104157.dwg
date:

SHEET
C5.02

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
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3	02.03.2022	CITY & ENGINEER COMMENTS	
4	02.24.2022	CITY COMMENTS	



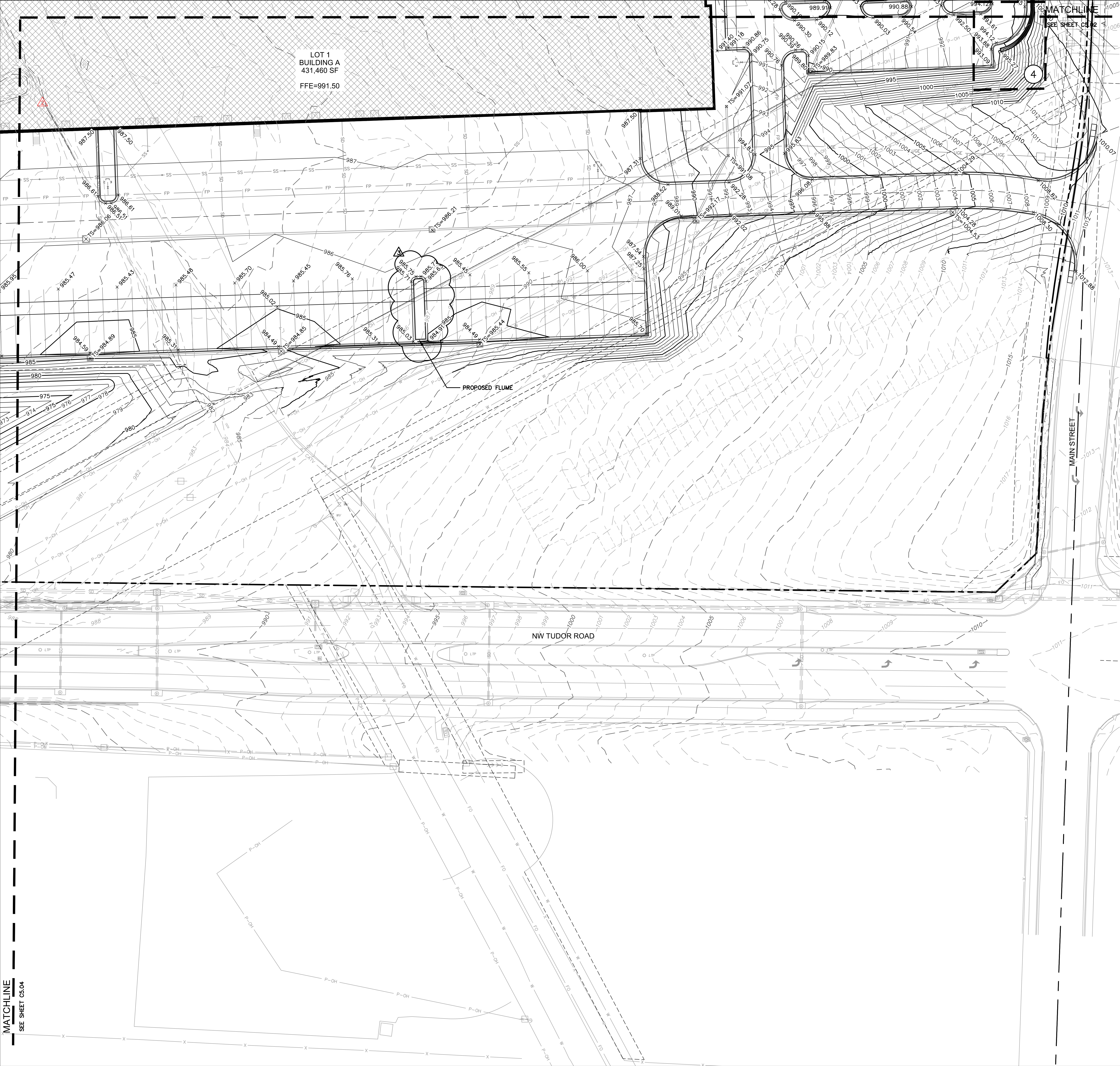
SCANNELL
PROPERTIES

olsson

7301 West 133rd Street, Suite 200
Overland Park, KS 66213-7755
TEL 913.381.1170
www.olsson.com

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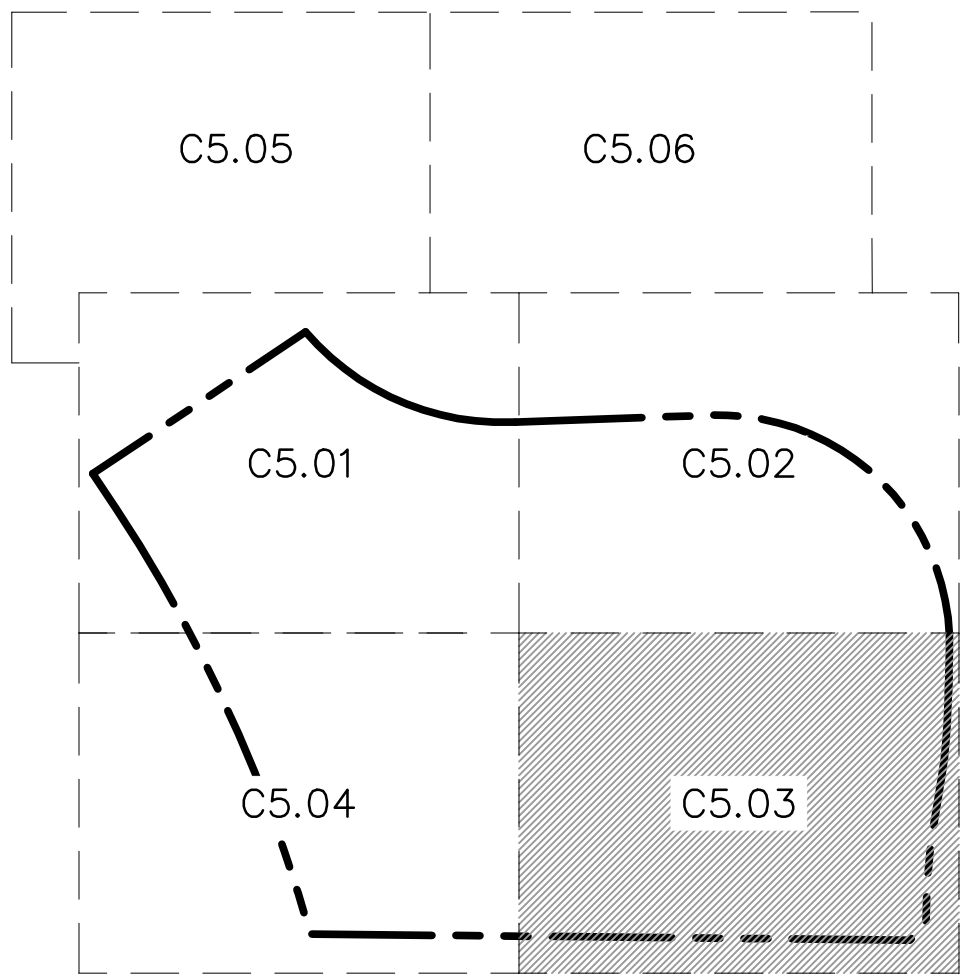
MATCHLINE
SEE SHEET C5.04



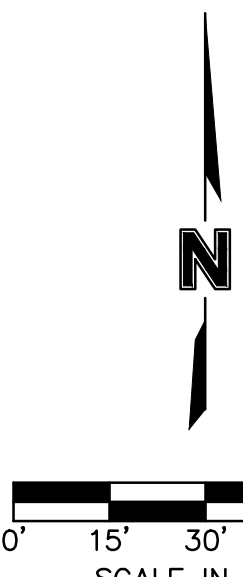
- LEGEND**
- PROPERTY LINE
 - SURROUNDING PROPERTY LINES
 - UTILITY EASEMENT
 - PROPOSED CONTOURS
 - EXISTING CONTOURS
 - GRADE BREAK LINE
 - RIDGE LINE
 - VALLEY LINE
 - GRADING DETAIL LOCATIONS (SHEETS C5.05—C5.07)

- SPOT ELEVATION LEGEND:**
- ALL SPOT ELEVATIONS ARE TOP OF PAVEMENT ELEVATION UNLESS NOTED OTHERWISE. RE: PLAN VIEW, LEGEND AND DETAILS FOR CURB TYPE AND TO CALCULATE TOP OF CURB ELEVATION.
- TC TOP OF CURB
 - FG FINISHED GRADE WITHIN GREENSPACE
 - TS TOP OF STRUCTURE
 - FC CURB DEPRESSED TO BE FLUSH WITH ADJACENT PAVEMENT
 - HP HIGH POINT
 - LP LOW POINT
 - ME± MATCH EXISTING
 - FFE FINISH FLOOR ELEVATION AT TOP OF SLAB
 - HFG HIGH FINISHED GRADE
 - LFG LOW FINISHED GRADE

- NOTES:**
- CONTRACTOR TO REMOVE AND REPLACE ALL SIDEWALK NECESSARY FOR CONNECTION TO EXISTING.
 - ALL ADA ACCESSIBLE SIDEWALK CROSS SLOPES SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.00% AND MAXIMUM LONGITUDINAL SLOPE OF 5.00%.
 - ALL ADA ACCESSIBLE PARKING AREAS SHALL NOT EXCEED 2.00% IN ANY DIRECTION.
 - CONTRACTOR TO PROVIDE FLAT A/C UNIT PADS FOR ALL A/C UNITS.
 - NO GRADES SHALL EXCEED 5:1 UNLESS OTHERWISE NOTES.
 - GRADING AND STORM SEWER IMPROVEMENTS SHALL BE STAKED, INCLUDING ALL HIGH POINTS AND KEY GRADE BREAKS.



KEY MAP
NOT TO SCALE



olsson

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Overland Park, KS 66213-7755
TEL 913.381.1170 www.olson.com

SCANNELL
PROPERTIES

STATE OF MISSOURI
MITCHELL ALAN
PE 2008010104
NUMBER
03-15-22
PROFESSIONAL ENGINEER

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	12.28.2021	CITY COMMENTS	
2	01.05.2022	CITY COMMENTS	
3	02.03.2022	CITY & ENGINEER COMMENTS	
4	02.24.2022	CITY COMMENTS	

GRADING PLAN
PHASE I FINAL DEVELOPMENT PLAN

SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET

LEE'S SUMMIT, MISSOURI

drawn by: OLSSON
checked by: ENG
approved by: ENG
QA/QC by: ENG
project no.: 021-04157
drawing no.: GRD02_02104157.dwg
date:

2021

REVISIONS

SHEET
C5.03

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MATCHLINE
SEE SHEET C5.01

CALCULATED 100 YEAR FLOODPLAIN
(POST-PROJECT CONDITIONS)

CALCULATED 100 YEAR FLOODPLAIN
(PRE-PROJECT CONDITIONS)

STREAM BUFFER

E. LINE, LIMITS OF "ZONE X-OTHER FLOOD AREAS"
FEMA FIRM 29095C0417G
REVISED 01/20/2017

LOT 1
BUILDING A
431,460 SF
FFE=991.50

E. LINE, LIMITS OF "ZONE AE" FEMA
FIRM 29095C0417G
REVISED 01/20/2017

NW TUDOR ROAD

MATCHLINE
SEE SHEET C5.03

LEGEND

- | | |
|-----|--|
| --- | PROPERTY LINE |
| --- | SURROUNDING PROPERTY LINES |
| --- | UTILITY EASEMENT |
| --- | PROPOSED CONTOURS |
| --- | EXISTING CONTOURS |
| --- | GRADE BREAK LINE |
| --- | RIDGE LINE |
| --- | VALLEY LINE |
| (X) | GRADING DETAIL LOCATIONS
(SHEETS C5.05-C5.07) |

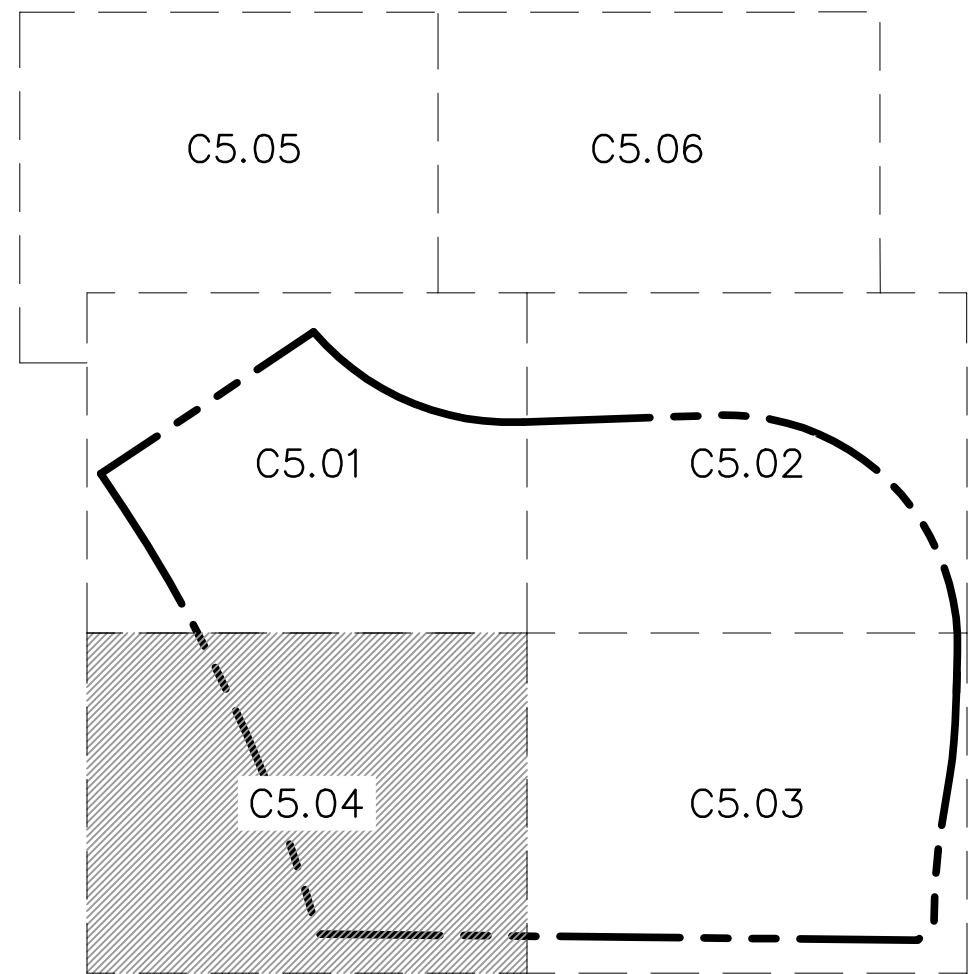
SPOT ELEVATION LEGEND:

ALL SPOT ELEVATIONS ARE TOP OF PAVEMENT ELEVATION
UNLESS NOTED OTHERWISE. RE: PLAN VIEW, LEGEND AND
DETAILS FOR CURB TYPE AND TO CALCULATE TOP OF
CURB ELEVATION.

- | | |
|-----|---|
| TC | TOP OF CURB |
| FG | FINISHED GRADE WITHIN GREENSPACE |
| TS | TOP OF STRUCTURE |
| FC | CURB DEPRESSION TO BE FLUSH WITH
ADJACENT PAVEMENT |
| HP | HIGH POINT |
| LP | LOW POINT |
| ME± | MATCH EXISTING |
| FFE | FINISH FLOOR ELEVATION AT TOP OF SLAB |
| HFG | HIGH FINISHED GRADE |
| LFG | LOW FINISHED GRADE |

NOTES:

- CONTRACTOR TO REMOVE AND REPLACE
ALL SIDEWALK NECESSARY FOR
CONNECTION TO EXISTING.
- ALL ADA ACCESSIBLE SIDEWALK CROSS
SLOPES SHALL HAVE A MAXIMUM CROSS
SLOPE OF 2.00% AND MAXIMUM
LONGITUDINAL SLOPE OF 5.00%.
- ALL ADA ACCESSIBLE PARKING AREAS
SHALL NOT EXCEED 2.00% IN ANY
DIRECTION.
- CONTRACTOR TO PROVIDE FLAT A/C UNIT
PADS FOR ALL A/C UNITS.
- NO GRADES SHALL EXCEED 5:1 UNLESS
OTHERWISE NOTES.
- GRADING AND STORM SEWER
IMPROVEMENTS SHALL BE STAKED,
INCLUDING ALL HIGH POINTS AND KEY
GRADE BREAKS.



KEY MAP
NOT TO SCALE



0' 15' 30' 60'
SCALE IN FEET

GRADING PLAN
PHASE I FINAL DEVELOPMENT PLAN

SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET
LEE'S SUMMIT, MISSOURI

drawn by: OLSSON
checked by: ENG
approved by: ENG
GNAC by: ENG
project no.: 021-04157
drawing no.: 02104157.dwg
date:

SHEET
C5.04

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	12.28.2021	CITY COMMENTS	
2	01.05.2022	CITY COMMENTS AND OWNER CHANGES	
3	02.03.2022	CITY & OWNER COMMENTS	
4	02.24.2022	CITY COMMENTS	



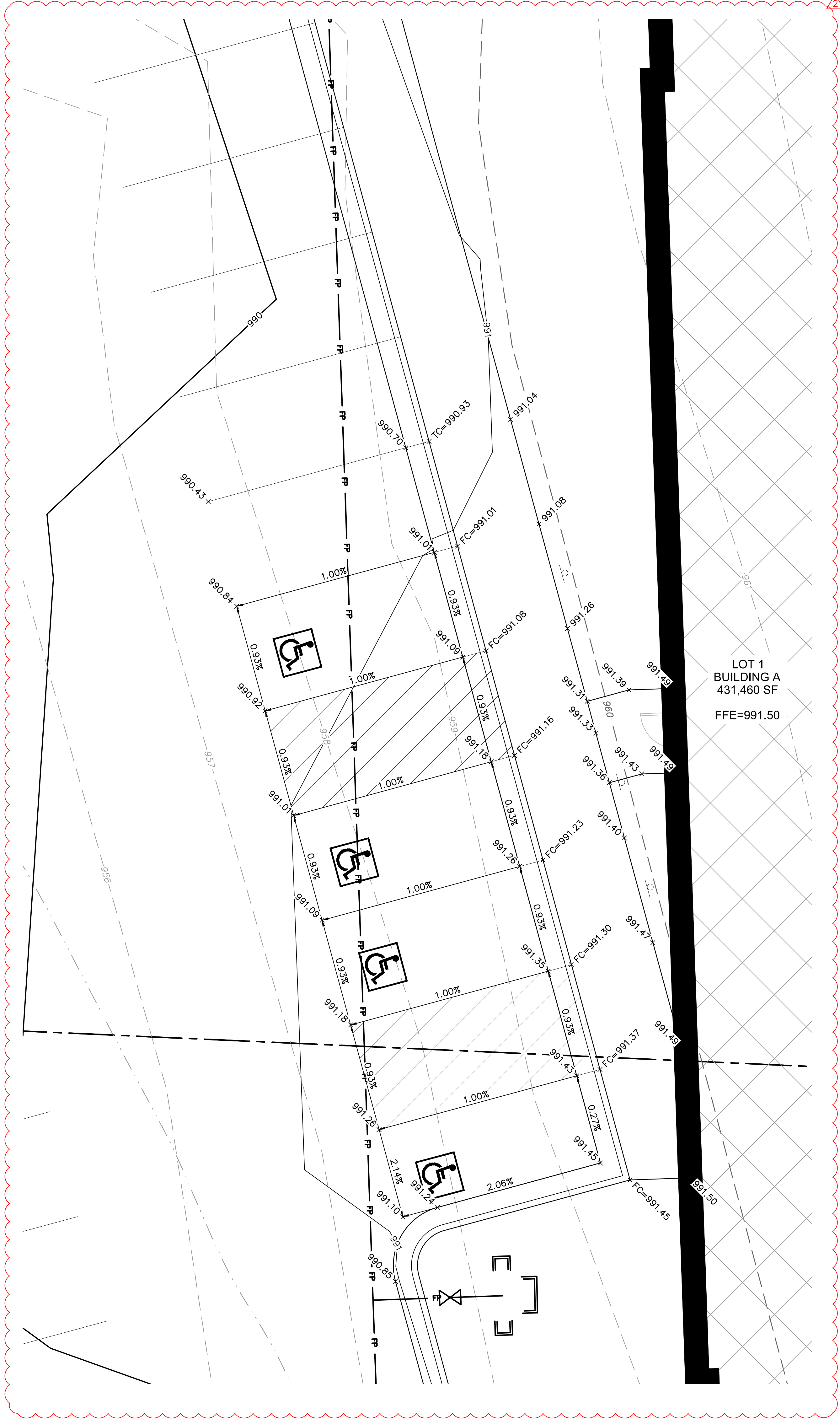
SCANNELL
PROPERTIES

olsson

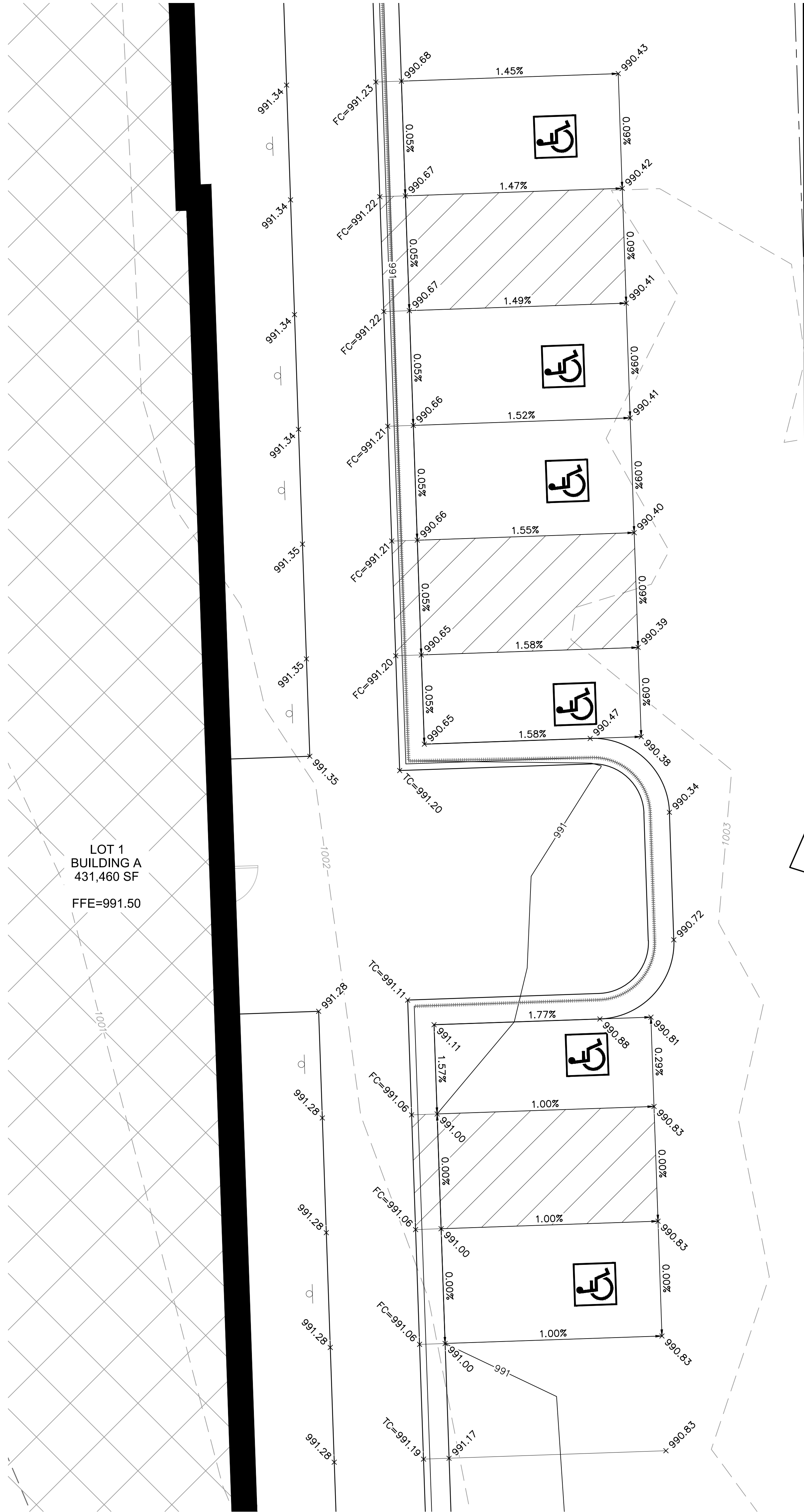
7301 West 133rd Street, Suite 200
Overland Park, KS 66213-7756

TEL 913.381.1170

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1 GRADING DETAIL

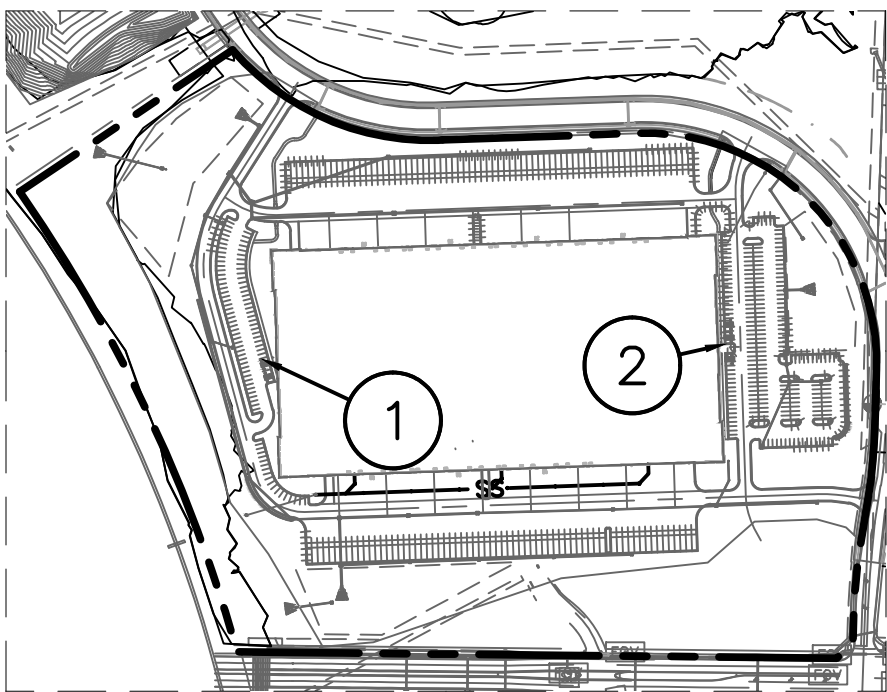


2 GRADING DETAIL

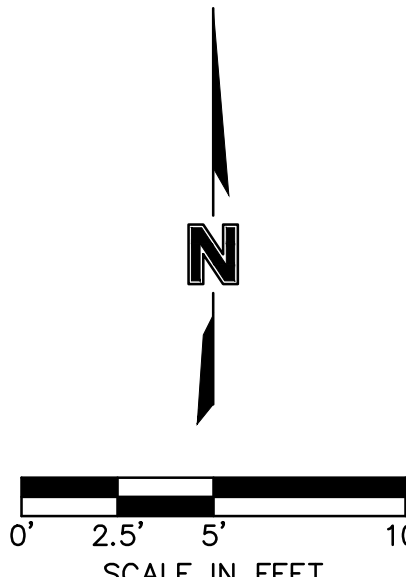
- LEGEND**
- PROPERTY LINE
 - SURROUNDING PROPERTY LINES
 - UTILITY EASEMENT
 - PROPOSED CONTOURS
 - EXISTING CONTOURS
 - GRADE BREAK LINE
 - RIDGE LINE
 - VALLEY LINE
 - GRADING DETAIL LOCATIONS (SHEETS C509-C515)

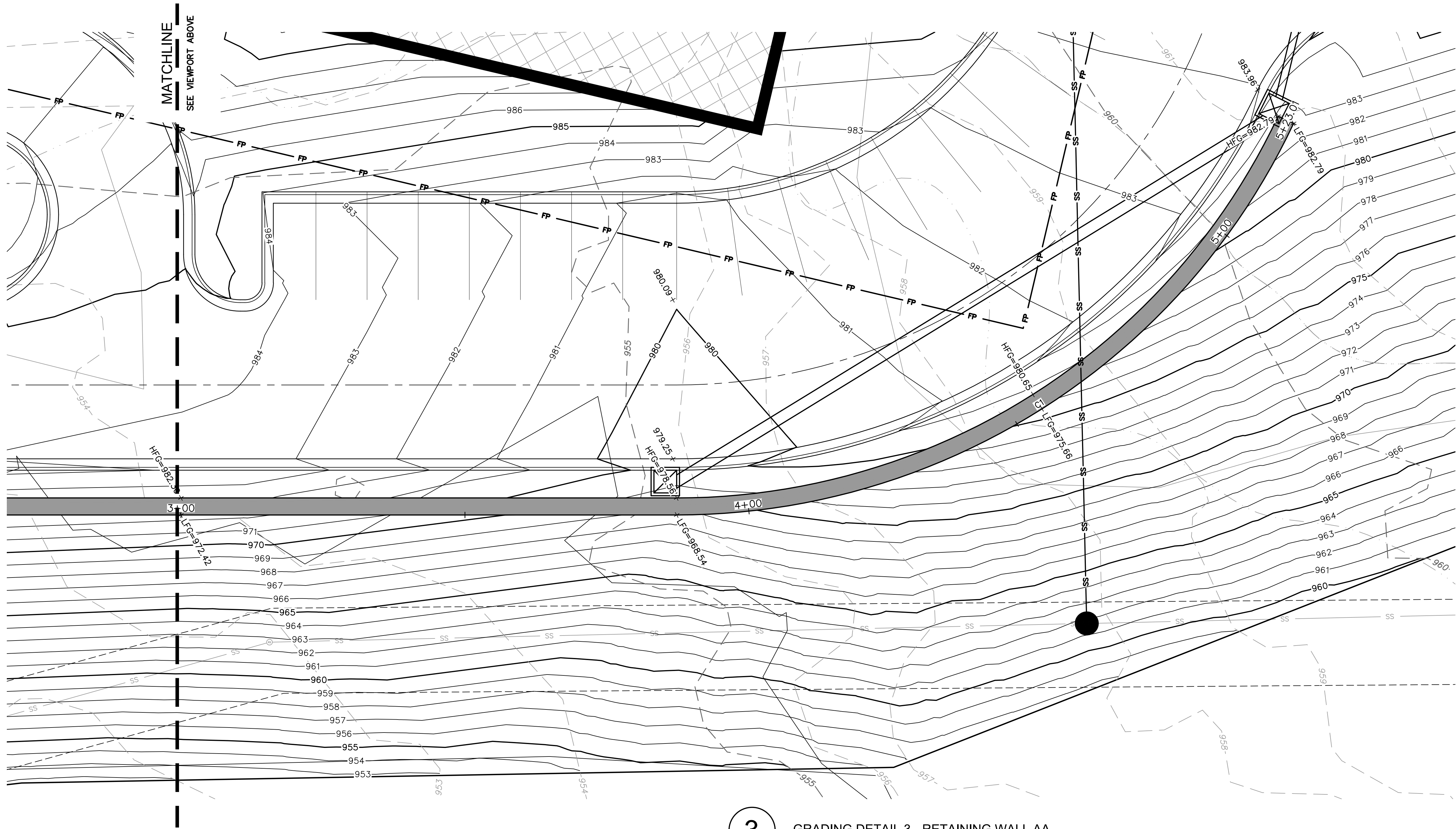
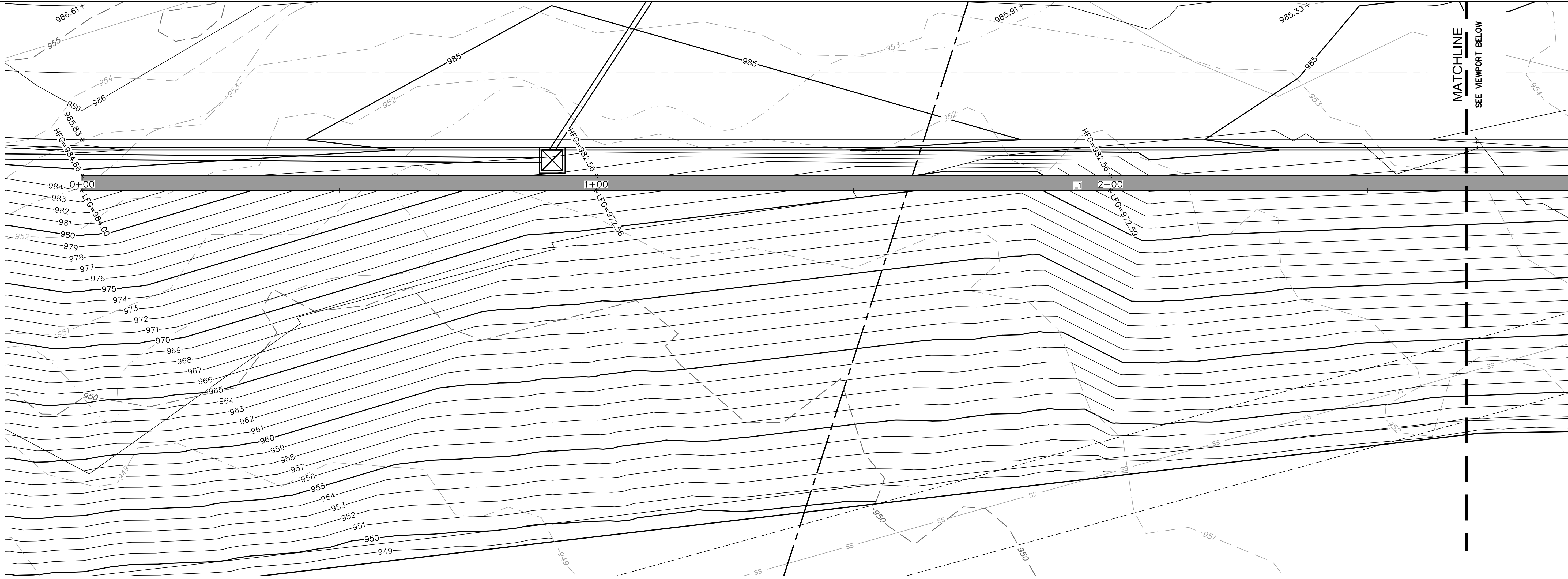
- SPOT ELEVATION LEGEND:**
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- TC TOP OF CURB
 - FG FINISHED GRADE WITHIN GREENSPACE
 - TS TOP OF STRUCTURE
 - FC CURB DEPRESSED TO BE FLUSH WITH ADJACENT PAVEMENT
 - HP HIGH POINT
 - LP LOW POINT
 - ME± MATCH EXISTING
 - FFE FINISH FLOOR ELEVATION AT TOP OF SLAB
 - HFG HIGH FINISHED GRADE
 - LFG LOW FINISHED GRADE

- NOTES:**
- CONTRACTOR TO REMOVE AND REPLACE ALL SIDEWALK NECESSARY FOR CONNECTION TO EXISTING.
 - ALL ADA ACCESSIBLE SIDEWALK CROSS SLOPES SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.00% AND MAXIMUM LONGITUDINAL SLOPE OF 5.00%.
 - ALL ADA ACCESSIBLE PARKING AREAS SHALL NOT EXCEED 2.00% IN ANY DIRECTION.
 - CONTRACTOR TO PROVIDE FLAT A/C UNIT PADS FOR ALL A/C UNITS.
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 - GRADING AND STORM SEWER IMPROVEMENTS SHALL BE STAKED, INCLUDING ALL HIGH POINTS AND KEY GRADE BREAKS.



KEY MAP
NOT TO SCALE





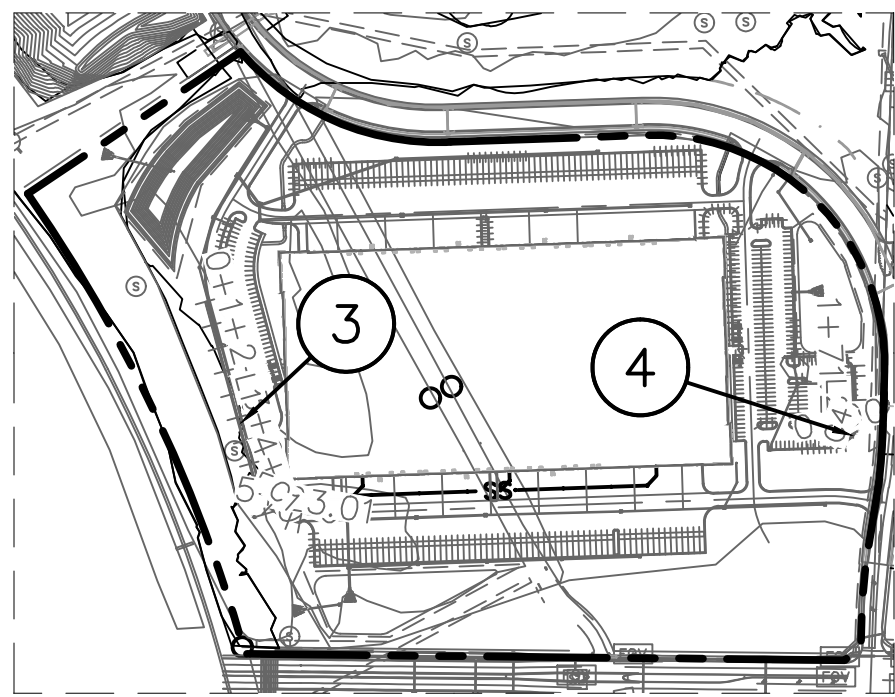
3 GRADING DETAIL 3 - RETAINING WALL AA

LEGEND	
---	PROPERTY LINE
---	SURROUNDING PROPERTY LINES
---	UTILITY EASEMENT
---	PROPOSED CONTOURS
---	EXISTING CONTOURS
---	GRADE BREAK LINE
---	RIDGE
---	RIDGE LINE
---	VALLEY
---	VALLEY LINE

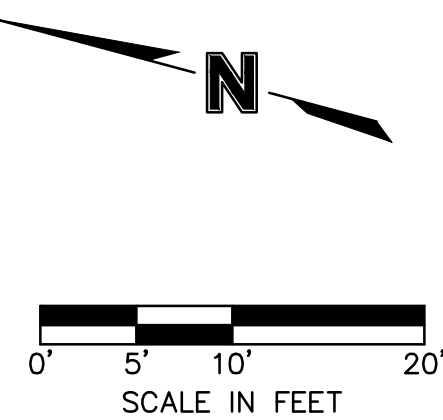
SPOT ELEVATION LEGEND:	
ALL SPOT ELEVATIONS ARE TOP OF PAVEMENT ELEVATION UNLESS NOTED OTHERWISE. RE: PLAN VIEW, LEGEND AND DETAILS FOR CURB TYPE AND TO CALCULATE TOP OF CURB ELEVATION.	
TC	TOP OF CURB
FG	FINISHED GRADE WITHIN GREENSPACE
TS	TOP OF STRUCTURE
FC	CURB DEPRESSED TO BE FLUSH WITH ADJACENT PAVEMENT
HP	HIGH POINT
LP	LOW POINT
WE±	MATCH EXISTING
FFE	FINISH FLOOR ELEVATION AT TOP OF SLAB
HFG	HIGH FINISHED GRADE
LFG	LOW FINISHED GRADE

- NOTES:
- CONTRACTOR TO REMOVE AND REPLACE ALL SIDEWALK NECESSARY FOR CONNECTION TO EXISTING.
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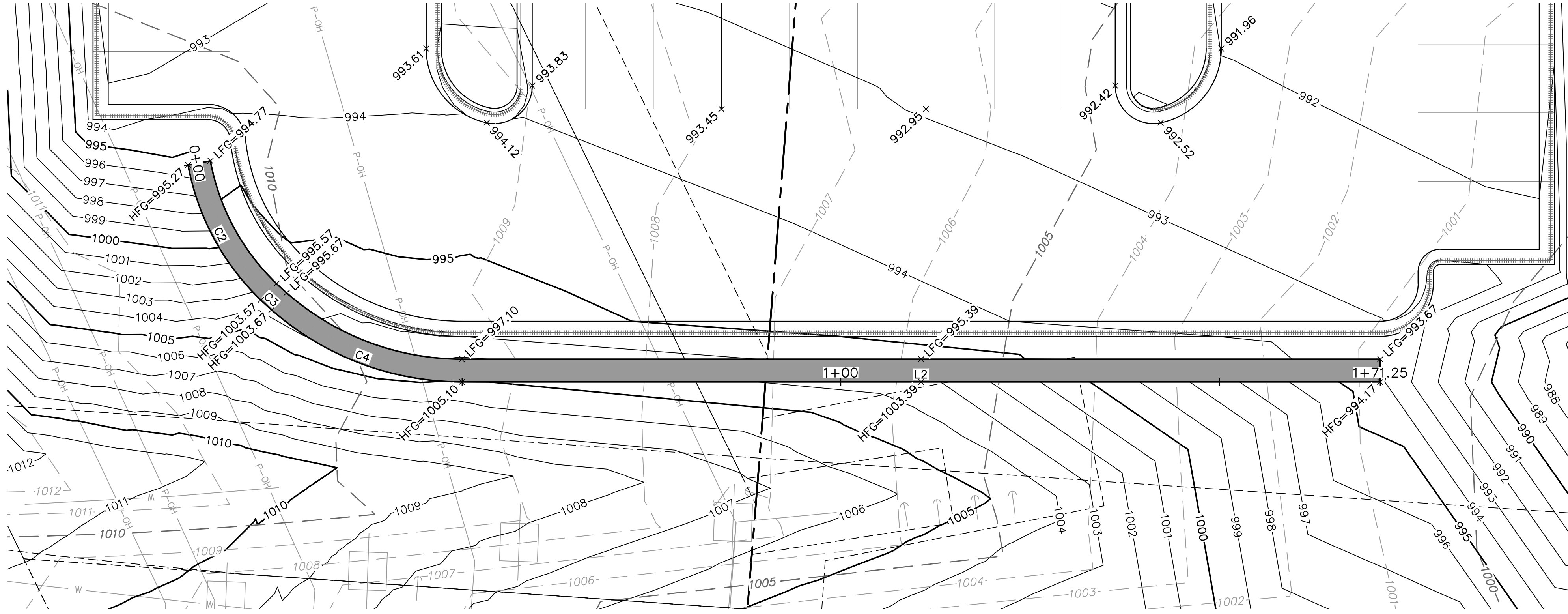
- NOTE:
- INFORMATION FOR RETAINING WALLS AA & BB SHOWN ON THE TABLES IS IN REFERENCE TO THE BOTTOM AND FRONT BLOCK OF WALL. THE BOTTOM AND FRONT BLOCK OF THE WALL LINE IS TO BE HELD DURING STAKING AND CONSTRUCTION.
 - ALL RETAINING WALL(S) ARE DESIGN BUILD BY THE CONTRACTOR. THE CONTRACTOR MUST PROVIDE THE WALL DESIGN PLANS AND GLOBAL STABILITY TO THE ENGINEER AND CITY OF LEE'S SUMMIT FOR APPROVAL. THE BUILDING PERMITS FOR THE PROJECT WILL NOT BE ISSUED UNTIL THE CITY OF LEE'S SUMMIT APPROVES THE WALL DESIGN. SEE DETAIL SHEET C8.02.



KEY MAP
NOT TO SCALE



RETAINING WALL AA								
ID #	STATION RANGE	NORTHING	EASTING	LENGTH	LINE/CHORD BEARING	DELTA	TANGENT	RADIUS
L1	0+00.00 3+87.27	52716.0764 52342.4063	54704.2248 54805.9477	387.27'	S15°13'42"E			
C1	PC= 3+87.27 PI= 4+63.44 PT= 5+23.01	52342.4063 52268.9080 52255.7346	54805.9477 54825.9559 54900.9812	135.74'	S47°38'05"E	64°48'46"	76.17'	120.00'



4 GRADING DETAIL 4 - RETAINING WALL BB

RETAINING WALL BB								
ID #		STATION RANGE	NORTHING	EASTING	LENGTH	LINE/CHORD BEARING	DELTA	TANGENT
C2	PC=	0+00.00	52424.8396	56034.6742	20.57'	N59°41'13"E	35°42'41"	10.63'
	PI=	0+10.63	52427.1327	56045.0544				
	PT=	0+20.57	52435.0536	56052.1443				
C3	PC=	0+20.57	52435.0536	56052.1443	1.93'	N40°37'47"E	2°24'12"	0.96'
	PI=	0+21.53	52435.7726	56052.7879				
	PT=	0+22.50	52436.5180	56053.4007				
C4	PC=	0+22.50	52436.5180	56053.4007	27.46'	N18°43'23"E	41°24'35"	14.36'
	PI=	0+36.86	52447.6120	56062.5225				
	PT=	0+49.96	52461.9661	56062.0259				
L2		0+49.96	52461.9661	56062.0259	121.29'	N1°58'54"W		
		1+71.25	52583.1850	56057.8315				

LEGEND	
	PROPERTY LINE
	SURROUNDING PROPERTY LINES
	UTILITY EASEMENT
	PROPOSED CONTOURS
	EXISTING CONTOURS
	GRADE BREAK LINE
	RIDGE LINE
	VALLEY LINE

SPOT ELEVATION LEGEND:

ALL SPOT ELEVATIONS ARE TOP OF PAVEMENT ELEVATION UNLESS NOTED OTHERWISE. RE: PLAN VIEW, LEGEND AND DETAILS FOR CURB TYPE AND TO CALCULATE TOP OF CURB ELEVATION.

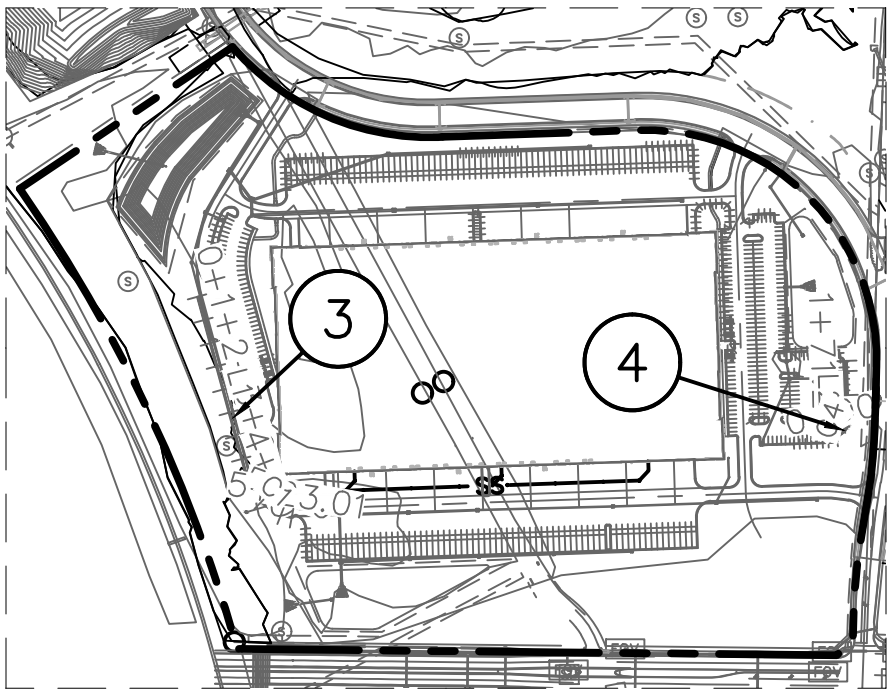
TC	TOP OF CURB
FG	FINISHED GRADE WITHIN GREENSPACE
TS	TOP OF STRUCTURE
FC	CURB DEPRESSED TO BE FLUSH WITH ADJACENT PAVEMENT
HP	HIGH POINT
LP	LOW POINT
ME±	MATCH EXISTING
FFE	FINISH FLOOR ELEVATION AT TOP OF SLAB
HFG	HIGH FINISHED GRADE
LFG	LOW FINISHED GRADE

NOTES:

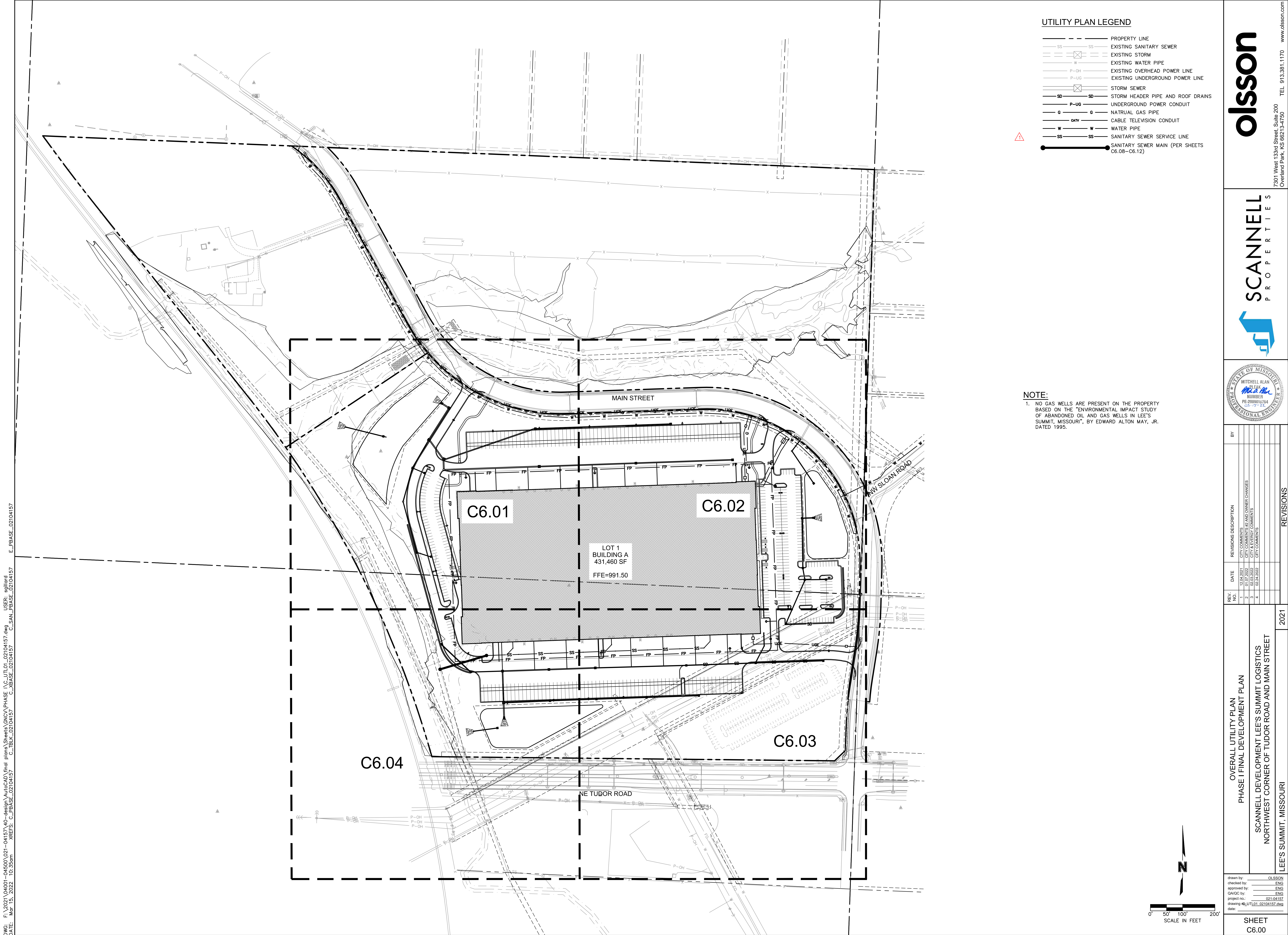
- CONTRACTOR TO REMOVE AND REPLACE ALL SIDEWALK NECESSARY FOR CONNECTION TO EXISTING.
- ALL ADA ACCESSIBLE SIDEWALK CROSS SLOPES SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.00% AND MAXIMUM LONGITUDINAL SLOPE OF 5.00%.
- ALL ADA ACCESSIBLE PARKING AREAS SHALL NOT EXCEED 2.00% IN ANY DIRECTION.
- CONTRACTOR TO PROVIDE FLAT A/C UNIT PADS FOR ALL A/C UNITS.
- NO GRADES SHALL EXCEED 5:1 UNLESS OTHERWISE NOTES.
- GRADING AND STORM SEWER IMPROVEMENTS SHALL BE STAKED, INCLUDING ALL HIGH POINTS AND KEY GRADE BREAKS.

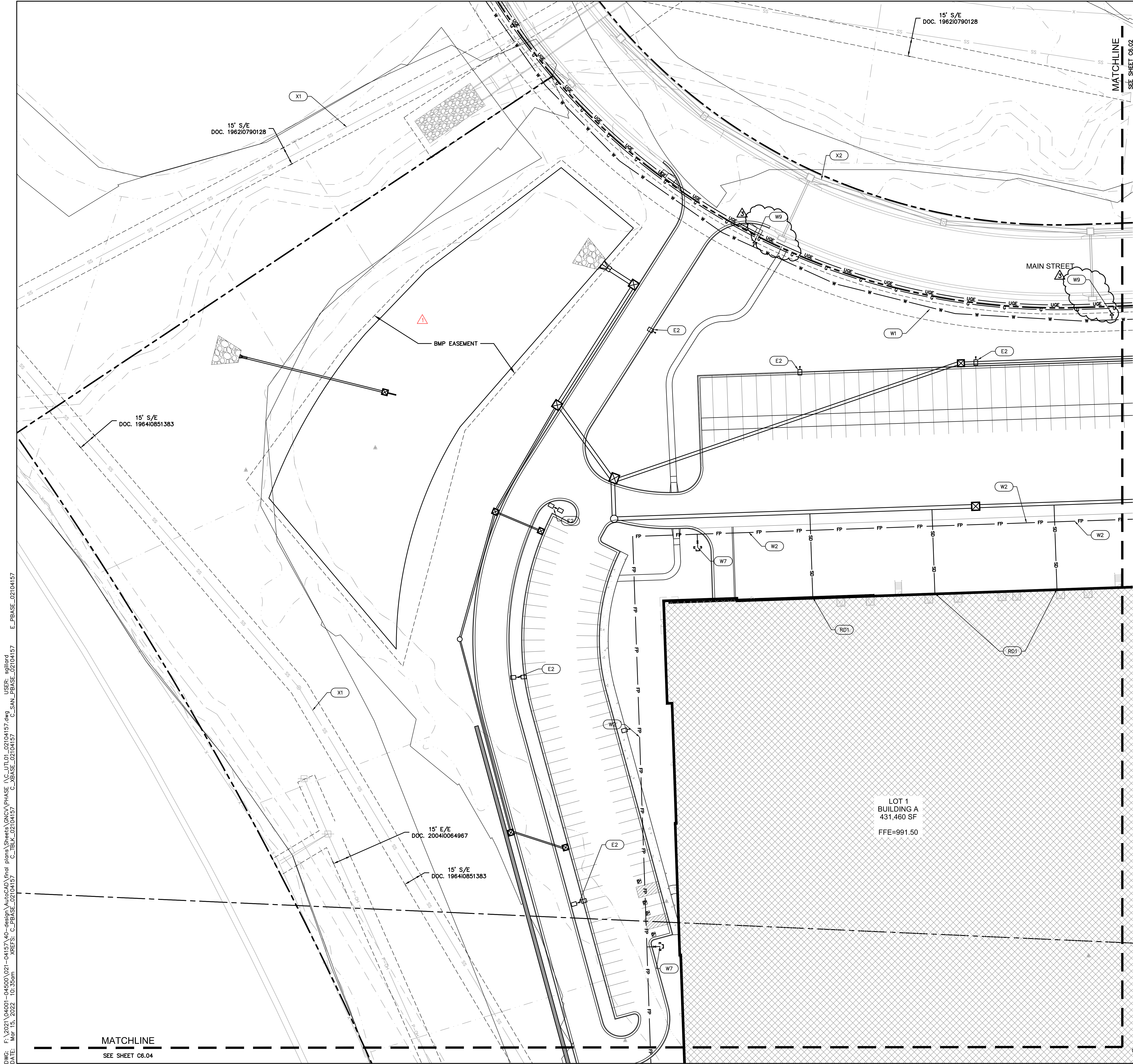
NOTE:

- INFORMATION FOR RETAINING WALLS AA & BB SHOWN ON THE TABLES IS IN REFERENCE TO THE BOTTOM AND FRONT BLOCK OF THE WALL. THE BOTTOM AND FRONT BLOCK OF THE WALL LINE IS TO BE HELD DURING STAKING AND CONSTRUCTION.
- ALL RETAINING WALL(S) ARE DESIGN BUILD BY THE CONTRACTOR. THE CONTRACTOR MUST PROVIDE THE WALL DESIGN PLANS AND GLOBAL STABILITY TO THE ENGINEER AND CITY OF LEE'S SUMMIT FOR APPROVAL. THE BUILDING PERMITS FOR THE PROJECT WILL NOT BE ISSUED UNTIL THE CITY OF LEE'S SUMMIT APPROVES THE WALL DESIGN. SEE DETAIL SHEET C8.02.



KEY MAP
NOT TO SCALE





- UTILITY PLAN LEGEND**
- PROPERTY LINE
 - EXISTING SANITARY SEWER
 - EXISTING STORM
 - EXISTING WATER PIPE
 - EXISTING OVERHEAD POWER LINE
 - EXISTING UNDERGROUND POWER LINE
 - STORM SEWER
 - STORM HEADER PIPE AND ROOF DRAINS
 - UNDERGROUND POWER CONDUIT
 - NATURAL GAS PIPE
 - CABLE TELEVISION CONDUIT
 - WATER PIPE
 - SANITARY SEWER SERVICE LINE
 - SANITARY SEWER MAIN (PER SHEETS C6.08-C6.12)

- KEYNOTES**
- WATER (W#)**
- W1 APPROXIMATE LOCATION OF PROPOSED 12" PUBLIC WATERMAIN. CONTRACTOR SHALL COORDINATE WITH CITY ON FINAL LOCATION.
 - W2 APPROXIMATE LOCATION OF PROPOSED 10" PRIVATE PRESSURIZED FIRE PROTECTION LOOP. INSTALL 3,200 LF ± 10" C900 DR 14. CONTRACTOR SHALL COORDINATE WITH CITY ON FINAL LOCATION.
 - W3 DOMESTIC WATER SERVICE TAP. CONNECTION REQUIREMENTS TO BE DETERMINED. CONTRACTOR SHALL COORDINATE WITH CITY ON CONNECTION.
 - W4 INSTALL WATER METER PER CITY WATER STANDARDS AND SPECIFICATIONS.
 - W5 CONNECT TO MAIN 12"x 12" TEE, AND INSTALL 250± LF OF 12" C900 DR 14 FOR FIRE PROTECTION WATER SERVICE. CONTRACTOR SHALL COORDINATE WITH CITY ON CONNECTION.
 - W6 INSTALL DOUBLE CHECK VALVE ASSEMBLY IN VAULT TO MEET CITY WATER STANDARDS AND SPECIFICATIONS. TAMPER SWITCHES AND THEIR ASSOCIATED WIRING WILL BE PROVIDED FOR THE SHUT-OFF VALUES IN THE VAULT. COORDINATE INSTALL AND BACKFLOW PREVENTION WITH CITY WATER AND MEP PLANS.
 - W7 APPROXIMATE LOCATION OF PROPOSED YARD FIRE HYDRANT BY CONTRACTOR. YARD HYDRANTS SHALL MATCH CITY STANDARD AND DETAILS. SHALL BE PAINTED RED.
 - W8 APPROXIMATE LOCATION OF PROPOSED PRIVATE FIRE HYDRANT BY CONTRACTOR. PRIVATE HYDRANTS SHALL MATCH CITY STANDARD AND DETAILS. SHALL BE PAINTED YELLOW WITH A SILVER TOP.
 - W9 PUBLIC FIRE HYDRANTS. SEE SEPARATE PLANS.
- GAS (G#)**
- G1 APPROXIMATE LOCATION OF PROPOSED GAS MAIN. CONTRACTOR SHALL COORDINATE WITH ENGINEER ON FINAL LOCATION OF GAS MAIN AND CONTACT ENGINEER WITH ANY CHANGES.
 - G2 INSTALL ±209 LF OF NEW GAS SERVICE TO PROPOSED GAS MAIN. COORDINATE WITH UTILITY COMPANY FOR EXACT LOCATION, ROUTING, AND CONNECTION.

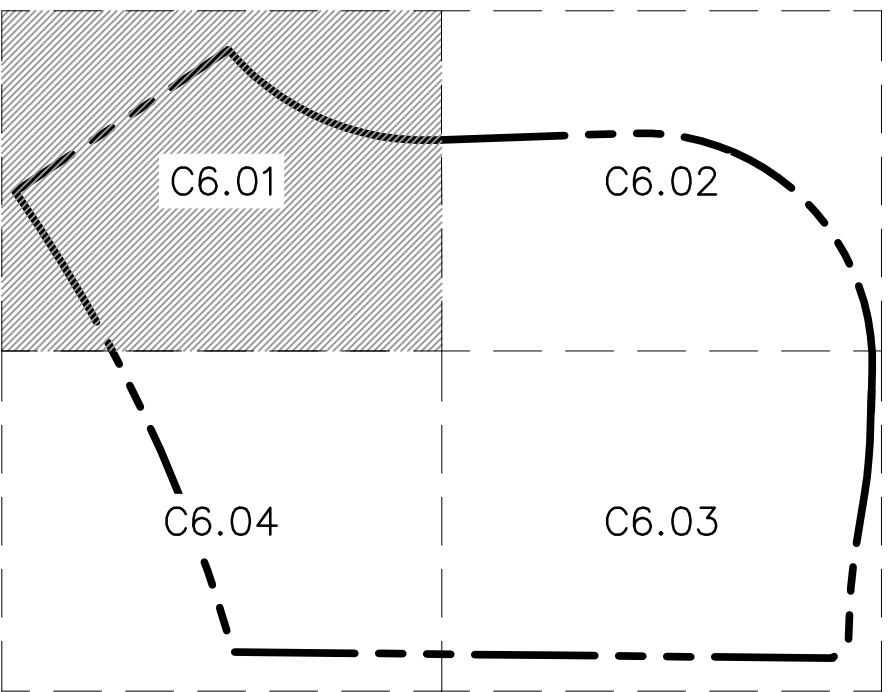
- ELECTRIC (E#)**
- E1 INSTALL APPROXIMATELY 100± LF OF PRIMARY ELECTRICAL SERVICE PER EVERGY/LEE'S SUMMIT DESIGN STANDARDS AND SPECIFICATIONS. VERIFY CONDUIT SIZE AND ROUTING WITH CITY AND EVERGY. THE ALIGNMENT IS APPROXIMATE. CONTRACTOR SHALL COORDINATE ELECTRICAL SERVICE ROUTE DIRECTLY WITH CITY AND EVERGY.
 - E2 PROPOSED SITE LIGHTING. REFERENCE SITE LIGHTING PLANS FOR DETAILS.
 - E3 INSTALL APPROXIMATELY 1000± LF OF SECONDARY ELECTRICAL SERVICE PER EVERGY/LEE'S SUMMIT DESIGN STANDARDS AND SPECIFICATIONS. VERIFY CONDUIT SIZE AND ROUTING WITH CITY AND EVERGY. THE ALIGNMENT IS APPROXIMATE. CONTRACTOR SHALL COORDINATE ELECTRICAL SERVICE ROUTE DIRECTLY WITH CITY AND EVERGY.
- STORM ROOF DRAINS (RD#)**
- RD1 INSTALL 12" HDPE FROM THE ROOF DRAIN TO STORM HEADER PIPE WITH A 1.0% MINIMUM SLOPE. MINIMUM COVER OF PIPE IS 2.5' AND SHALL COORDINATE WITH ALL OTHER IMPROVEMENTS. INCLUDE BENDS, FITTINGS, AND OTHER PARTS FOR INSTALLATION. SEE MEP PLANS FOR ROOF DRAIN LOCATIONS AND DETAILS.
 - RD2 INSTALL BACK OF CURB PERFORATED PIPE WITH SOCK AND TIE INTO CLOSEST PRIVATE STORM SEWER.

- SANITARY SEWER SERVICE (SS#)**
- SS1 SANITARY SEWER SERVICE LINES. REFERENCE SHEETS C6.05 -C6.07 FOR INFORMATION ON SANITARY SEWER SERVICE LINES.
 - SS2 PRIVATE SANITARY SEWER MAIN EXTENSION. REFERENCE SHEETS C6.08 -C6.12 PRIVATE SANITARY SEWER SHEETS FOR MORE INFORMATION.

- EXISTING UTILITIES (X#)**
- X1 EXISTING SANITARY SEWER MAIN
 - X2 EXISTING STORM SEWER
 - X3 EXISTING WATER MAIN

NOTE:

- FDC SHALL BE LOCATED WITH 100' OF FIRE HYDRANT.
- THE ALL ISSUES PERTAINING TO LIFE SAFETY AND PROPERTY PROTECTION FROM THE HAZARDS OF FIRE, EXPLOSION OR DANGEROUS CONDITIONS IN NEW AND EXISTING BUILDINGS, STRUCTURES AND PREMISES, AND TO THE SAFETY TO FIRE FIGHTERS AND EMERGENCY RESPONDERS DURING EMERGENCY OPERATIONS, SHALL BE IN ACCORDANCE WITH THE 2018 INTERNATIONAL FIRE CODE.



KEY MAP
NOT TO SCALE

7301 West 133rd Street, Suite 200
Overland Park, KS 66213-4756
TEL 913.381.1170
www.olsson.com

SCANNELL PROPERTIES

MITCHELL ALAN
PE 2898916164
C6.15-15.12
PROFESSIONAL ENGINEER

REV#	DATE	DESCRIPTION
1	12.24.2021	CITY COMMENTS
2	01.03.2022	ADD AND CHANGE CHANGES
3	01.03.2022	CITY & EVERGY COMMENTS
4	02.24.2022	CITY COMMENTS

UTILITY PLAN

PHASE I/FINAL DEVELOPMENT PLAN

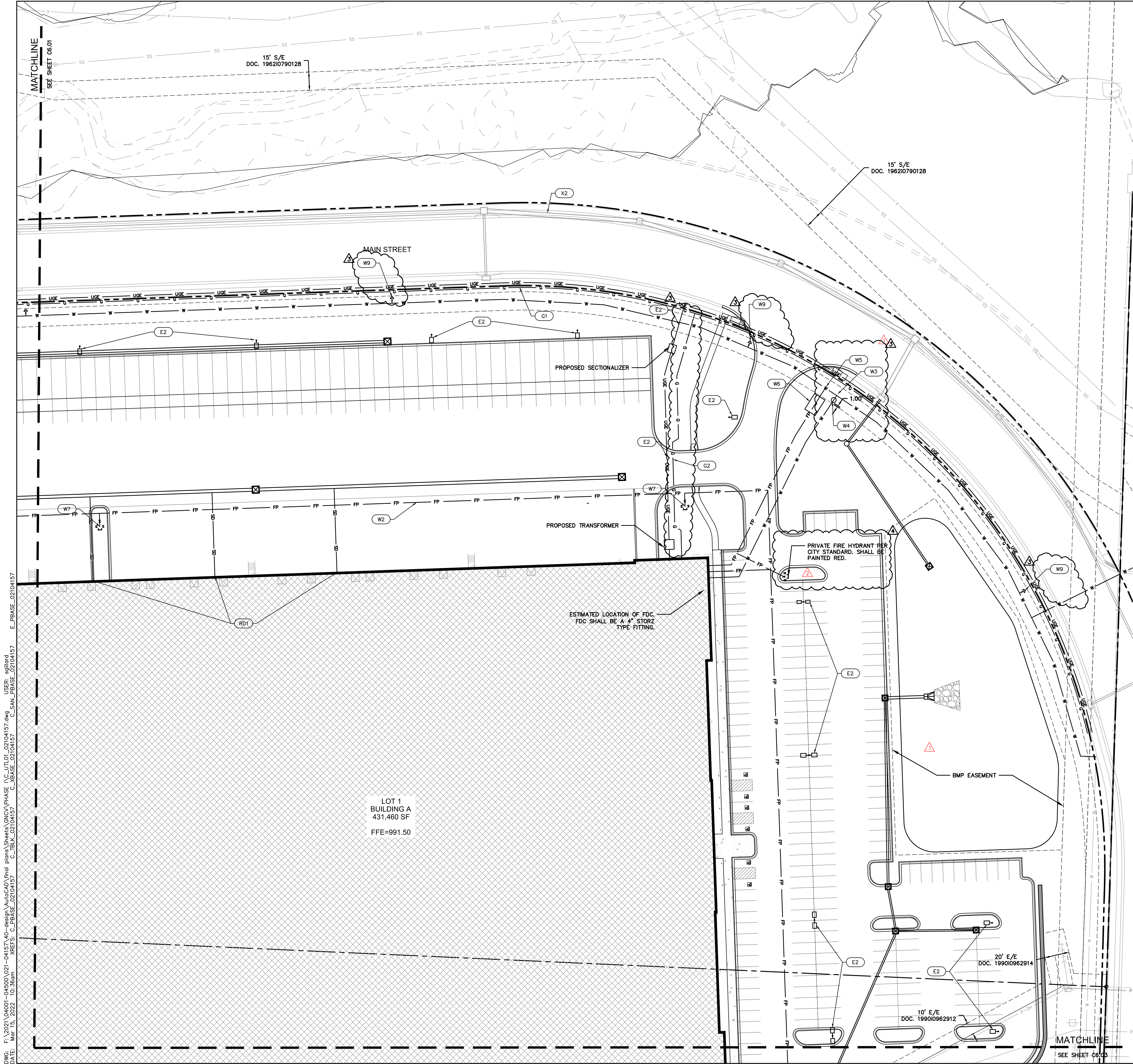
SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET
LEE'S SUMMIT, MISSOURI

drawn by: OLSSON
checked by: ENG
approved by: ENG
QA/QC by: ENG
project no.: 021-04157
drawing no.: 021-04157.dwg
date:

SHEET
C6.01

2021

REVISIONS



- UTILITY PLAN LEGEND**
- PROPERTY LINE
 - EXISTING SANITARY SEWER
 - EXISTING STORM
 - EXISTING WATER PIPE
 - EXISTING OVERHEAD POWER LINE
 - EXISTING UNDERGROUND POWER LINE
 - STORM SEWER
 - STORM HEADER PIPE AND ROOF DRAINS
 - UNDERGROUND POWER CONDUIT
 - NATURAL GAS PIPE
 - CABLE TELEVISION CONDUIT
 - WATER PIPE
 - SANITARY SEWER SERVICE LINE
 - SANITARY SEWER MAIN (PER SHEETS C6.08-C6.12)

- KEYNOTES**
- WATER (W#)**
- W1 APPROXIMATE LOCATION OF PROPOSED 12" PUBLIC WATERMAIN. CONTRACTOR SHALL COORDINATE WITH CITY ON FINAL LOCATION.
 - W2 APPROXIMATE LOCATION OF PROPOSED 10" PRIVATE PRESSURIZED FIRE PROTECTION LOOP. INSTALL 3,200 LF ± 10" C900 DR 14. CONTRACTOR SHALL COORDINATE WITH CITY ON FINAL LOCATION.
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 - W4 INSTALL WATER METER PER CITY WATER STANDARDS AND SPECIFICATIONS.
 - W5 CONNECT TO MAIN 12"x12" TEE, AND INSTALL 250± LF OF 12" C900 DR 14 FOR FIRE PROTECTION WATER SERVICE. CONTRACTOR SHALL COORDINATE WITH CITY ON CONNECTION.
 - W6 INSTALL DOUBLE CHECK VALVE ASSEMBLY IN VAULT TO MEET CITY WATER STANDARDS AND SPECIFICATIONS. TAMPER SWITCHES AND THEIR ASSOCIATED WIRING WILL BE PROVIDED FOR THE SHUT-OFF VALUES IN THE VAULT. COORDINATE INSTALL AND BACKFLOW PREVENTION WITH CITY WATER AND MEP PLANS.
 - W7 APPROXIMATE LOCATION OF PROPOSED YARD FIRE HYDRANT BY CONTRACTOR. YARD HYDRANTS SHALL MATCH CITY STANDARD AND DETAILS. SHALL BE PAINTED RED.
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 - W9 PUBLIC FIRE HYDRANTS. SEE SEPARATE PLANS.
- GAS (G#)**
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 - G2 INSTALL ±209 LF OF NEW GAS SERVICE TO PROPOSED GAS MAIN. COORDINATE WITH UTILITY COMPANY FOR EXACT LOCATION, ROUTING, AND CONNECTION.

- ELECTRIC (E#)**
- E1 INSTALL APPROXIMATELY 100± LF OF PRIMARY ELECTRICAL SERVICE PER EVERY/LEE'S SUMMIT DESIGN STANDARDS AND SPECIFICATIONS. VERIFY CONDUIT SIZE AND ROUTING WITH CITY AND EVERY. THE ALIGNMENT IS APPROXIMATE. CONTRACTOR SHALL COORDINATE ELECTRICAL SERVICE ROUTE DIRECTLY WITH CITY AND EVERY.
 - E2 PROPOSED SITE LIGHTING. REFERENCE SITE LIGHTING PLANS FOR DETAILS.
 - E3 INSTALL APPROXIMATELY 1000± LF OF SECONDARY ELECTRICAL SERVICE PER EVERY/LEE'S SUMMIT DESIGN STANDARDS AND SPECIFICATIONS. VERIFY CONDUIT SIZE AND ROUTING WITH CITY AND EVERY. THE ALIGNMENT IS APPROXIMATE. CONTRACTOR SHALL COORDINATE ELECTRICAL SERVICE ROUTE DIRECTLY WITH CITY AND EVERY.

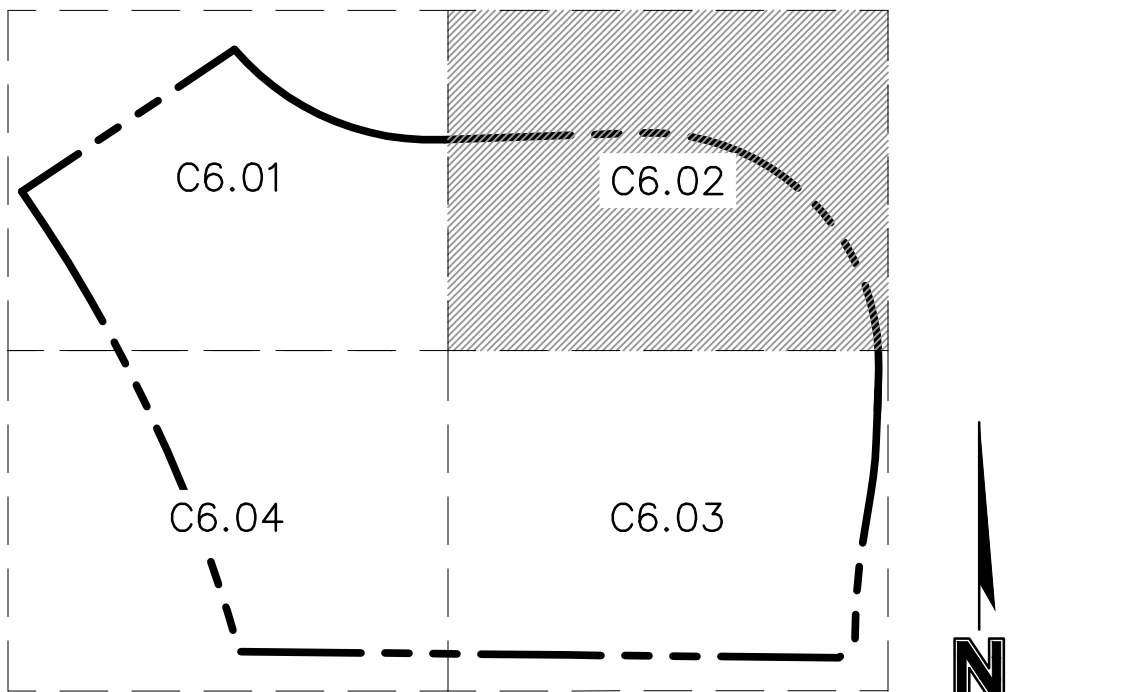
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 - RD2 INSTALL BACK OF CURB PERFORATED PIPE WITH SOCK AND TIE INTO CLOSEST PRIVATE STORM SEWER.

- SANITARY SEWER SERVICE (SS#)**
- SS1 SANITARY SEWER SERVICE LINES. REFERENCE SHEETS C6.05 -C6.07 FOR INFORMATION ON SANITARY SEWER SERVICE LINES.
 - SS2 PRIVATE SANITARY SEWER MAIN EXTENSION. REFERENCE SHEETS C6.08 -C6.12 PRIVATE SANITARY SEWER SHEETS FOR MORE INFORMATION.

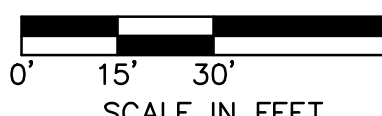
- EXISTING UTILITIES (X#)**
- X1 EXISTING SANITARY SEWER MAIN
 - X2 EXISTING STORM SEWER
 - X3 EXISTING WATER MAIN

NOTE:

- FDC SHALL BE LOCATED WITH 100' OF FIRE HYDRANT.
- THE ALL ISSUES PERTAINING TO LIFE SAFETY AND PROPERTY PROTECTION FROM THE HAZARDS OF FIRE, EXPLOSION OR DANGEROUS CONDITIONS IN NEW AND EXISTING BUILDINGS, STRUCTURES AND PREMISES, AND TO THE SAFETY TO FIRE FIGHTERS AND EMERGENCY RESPONDERS DURING EMERGENCY OPERATIONS, SHALL BE IN ACCORDANCE WITH THE 2018 INTERNATIONAL FIRE CODE.



KEY MAP
NOT TO SCALE



7301 West 133rd Street, Suite 200
Overland Park, KS 66213-4755
TEL 913.381.1170
www.olsson.com

SCANNELL
PROPERTIES

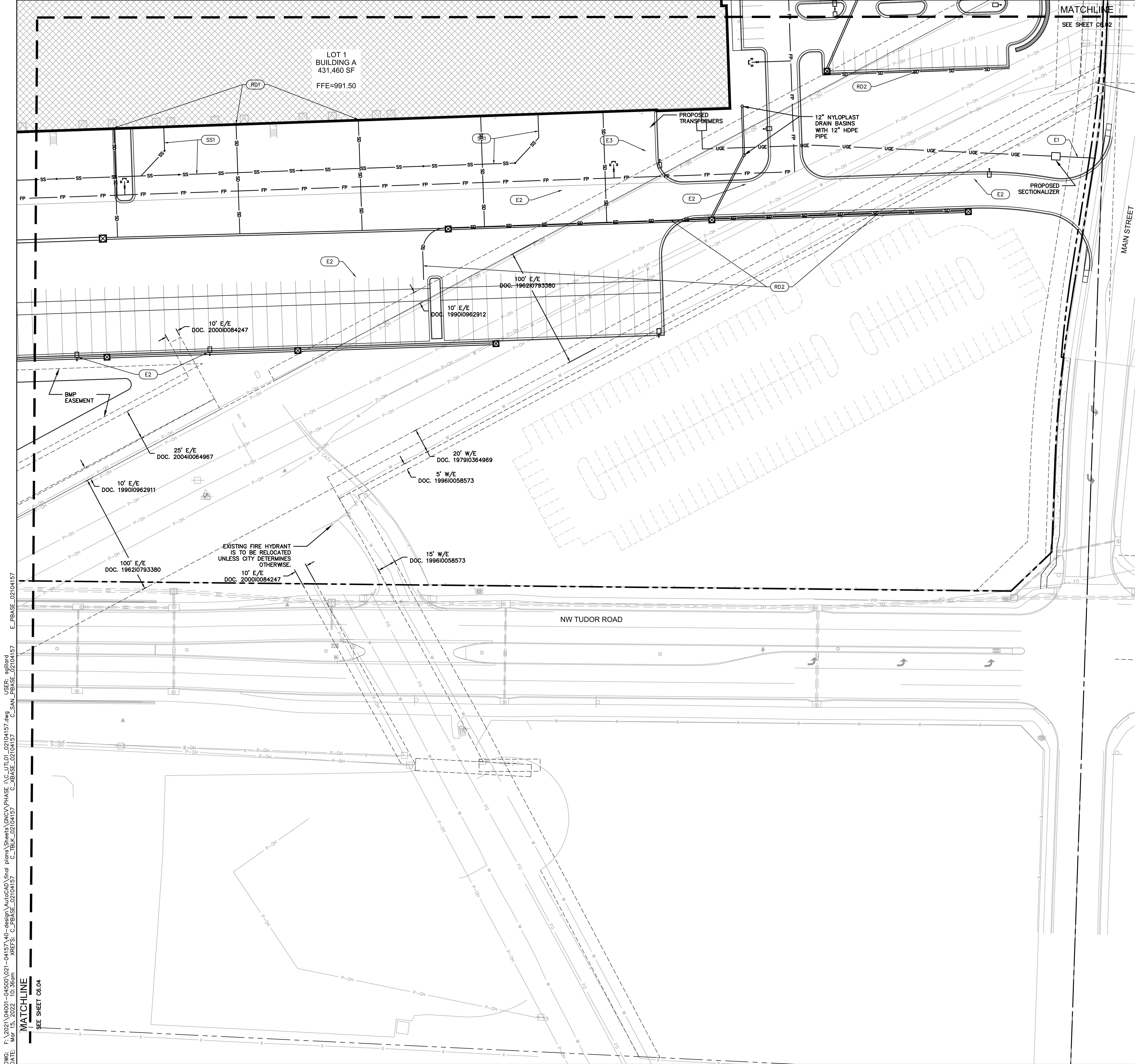
REV	DATE	DESCRIPTION
1	12/24/2021	CITY COMMENTS
2	01/03/2022	CITY COMMENTS
3	02/03/2022	CITY COMMENTS
4	02/24/2022	CITY COMMENTS

UTILITY PLAN
PHASE I/FINAL DEVELOPMENT PLAN
SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET
LEE'S SUMMIT, MISSOURI

drawn by: OLSSON
checked by: ENG
approved by: ENG
checked by: ENG
project no.: 021-04157
drawing no.: 021-04157.dwg
date:

2021

SHEET
C6.02

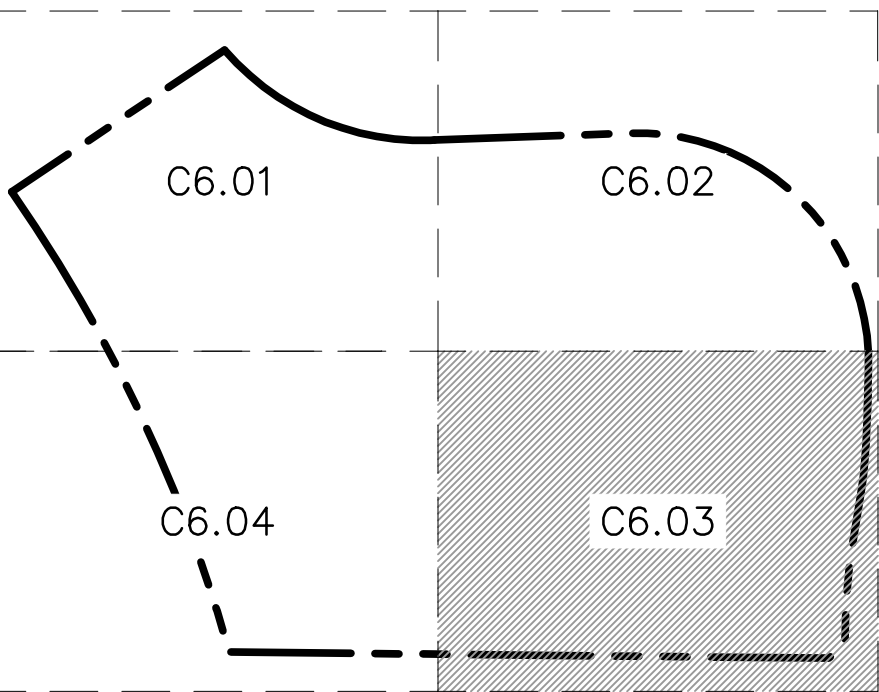


- UTILITY PLAN LEGEND**
- PROPERTY LINE
 - EXISTING SANITARY SEWER
 - EXISTING STORM
 - EXISTING WATER PIPE
 - EXISTING OVERHEAD POWER LINE
 - EXISTING UNDERGROUND POWER LINE
 - STORM SEWER
 - STORM HEADER PIPE AND ROOF DRAINS
 - UNDERGROUND POWER CONDUIT
 - NATURAL GAS PIPE
 - CABLE TELEVISION CONDUIT
 - WATER PIPE
 - SANITARY SEWER SERVICE LINE
 - SANITARY SEWER MAIN (PER SHEETS C6.08-C6.12)

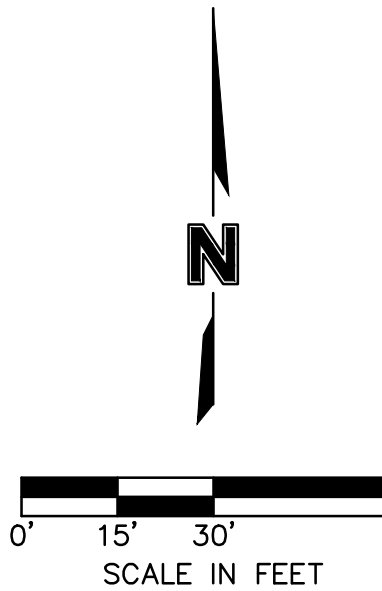
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NOTE:
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KEY MAP
NOT TO SCALE



7301 West 133rd Street, Suite 200
Overland Park, KS 66213-4755
TEL 913.381.1170
www.olsson.com

SCANNELL
PROPERTIES

MITCHELL ALAN
PE 289891814
NUMBER
03-15-12
PROFESSIONAL ENGINEER

REV.	NO.	DATE	DESCRIPTION
1	12.24.2021	CITY COMMENTS	
2	02.03.2022	CITY COMMENTS	
3	02.03.2022	CITY COMMENTS	
4	02.24.2022	CITY COMMENTS	

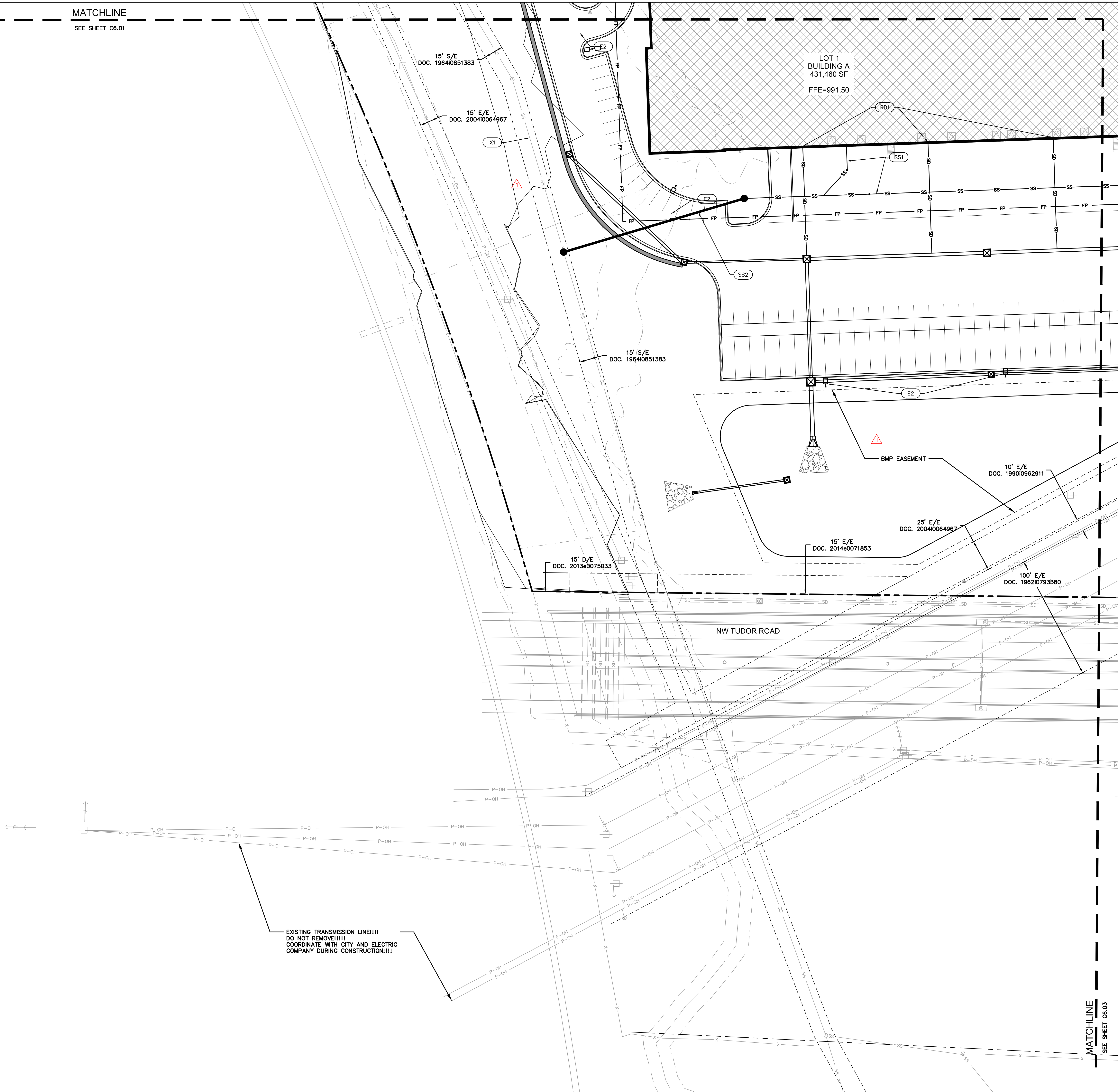
UTILITY PLAN
PHASE I FINAL DEVELOPMENT PLAN
SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET
LEE'S SUMMIT, MISSOURI

drawn by: OLSSON
checked by: ENG
approved by: ENG
QA/QC by: ENG
project no.: 021-04157
drawing no.: 021-04157.dwg
date:

2021

SHEET
C6.03

MATCHLINE
SEE SHEET C6.01



UTILITY PLAN LEGEND

- PROPERTY LINE
- EXISTING SANITARY SEWER
- EXISTING STORM
- EXISTING WATER PIPE
- EXISTING OVERHEAD POWER LINE
- EXISTING UNDERGROUND POWER LINE
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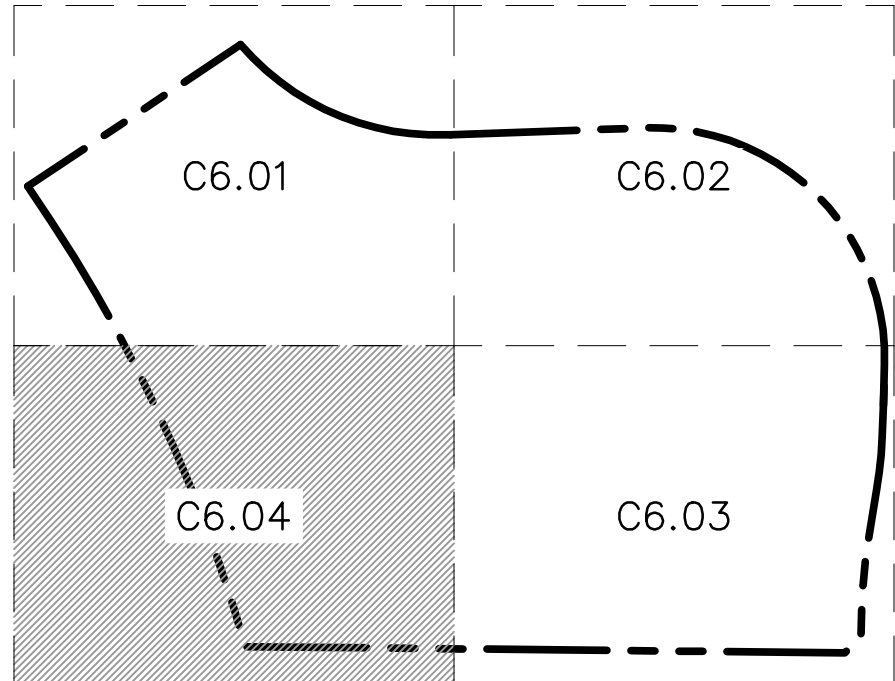
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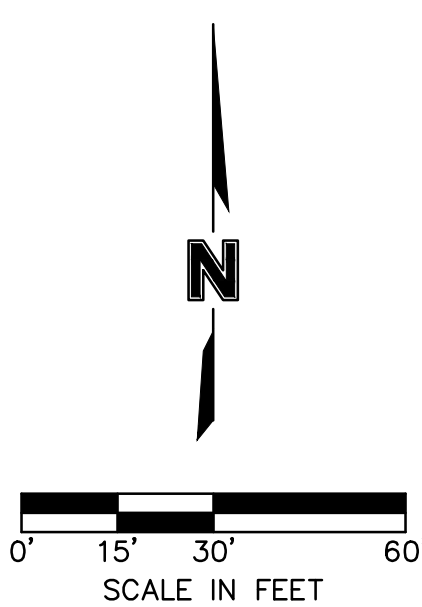
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- X3 EXISTING WATER MAIN

NOTE:
FDC SHALL BE LOCATED WITH 100' OF FIRE HYDRANT.



KEY MAP
NOT TO SCALE



UTILITY PLAN
PHASE I/FINAL DEVELOPMENT PLAN

SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET
LEE'S SUMMIT, MISSOURI

drawn by: OLSSON
checked by: ENG
approved by: ENG
CADC by: ENG
project no.: 021-04157
drawing: C_UTL01_02104157.dwg
date:

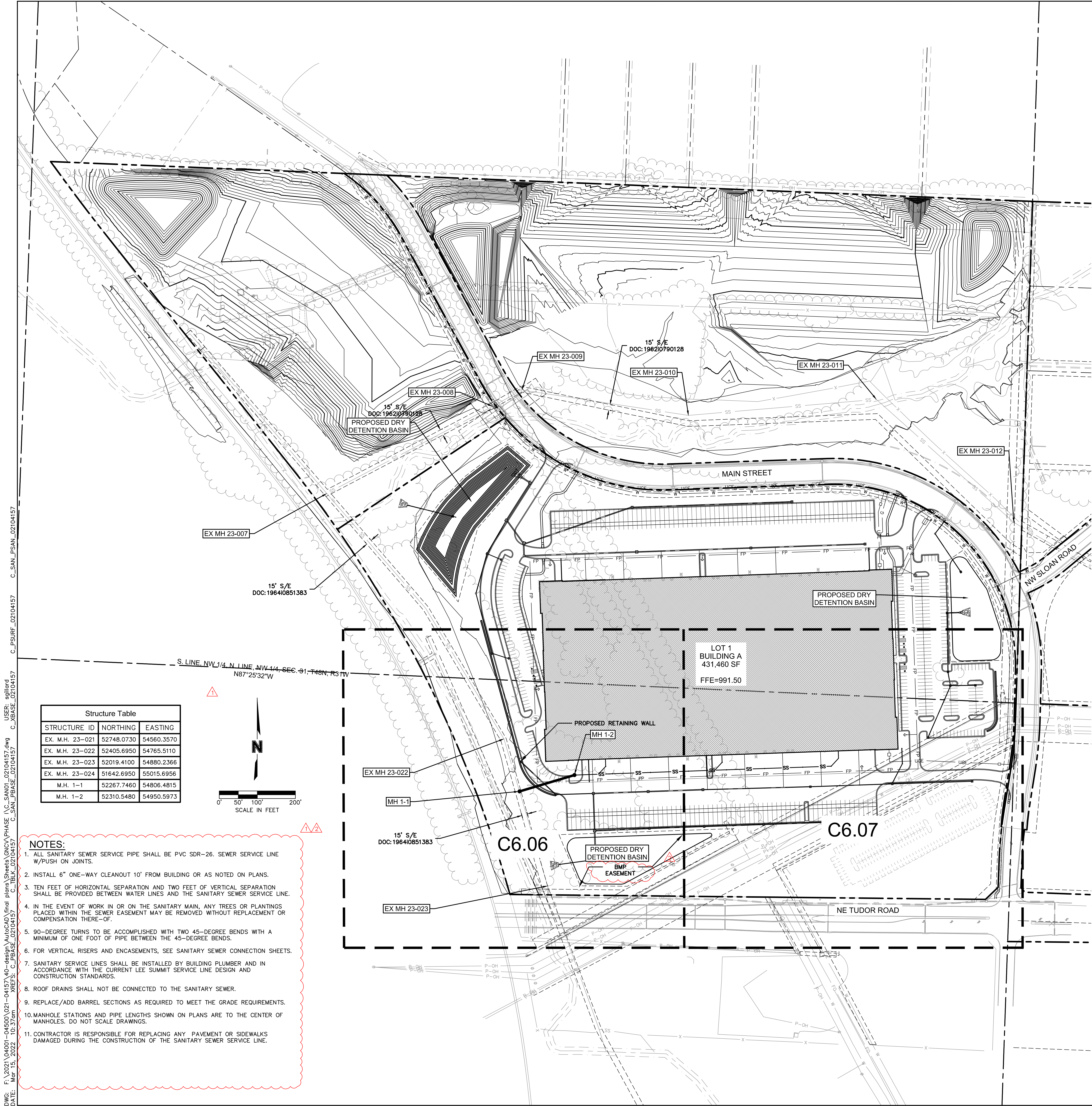
SHEET
C6.04



SCANNELL
PROPERTIES

olsson

7301 West 133rd Street, Suite 200
Overland Park, KS 66213-7756
TEL 913.381.1170
www.olsson.com



Structure Table		
STRUCTURE ID	NORTHING	EASTING
EX. M.H. 23-021	52748.0730	54560.3570
EX. M.H. 23-022	52405.6950	54765.5110
EX. M.H. 23-023	52019.4100	54880.2368
EX. M.H. 23-024	51642.6950	55015.6956
M.H. 1-1	52267.7460	54806.4815
M.H. 1-2	52310.5480	54950.5973

- NOTES:**
- ALL SANITARY SEWER SERVICE PIPE SHALL BE PVC SDR-26. SEWER SERVICE LINE W/PUSH ON JOINTS.
 - INSTALL 6" ONE-WAY CLEANOUT 10' FROM BUILDING OR AS NOTED ON PLANS.
 - TEN FEET OF HORIZONTAL SEPARATION AND TWO FEET OF VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN WATER LINES AND THE SANITARY SEWER SERVICE LINE.
 - IN THE EVENT OF WORK IN OR ON THE SANITARY MAIN, ANY TREES OR PLANTINGS PLACED WITHIN THE SEWER EASEMENT MAY BE REMOVED WITHOUT REPLACEMENT OR COMPENSATION THERE-OF.
 - 90-DEGREE TURNS TO BE ACCOMPLISHED WITH TWO 45-DEGREE BENDS WITH A MINIMUM OF ONE FOOT OF PIPE BETWEEN THE 45-DEGREE BENDS.
 - FOR VERTICAL RISERS AND ENCASEMENTS, SEE SANITARY SEWER CONNECTION SHEETS.
 - SANITARY SERVICE LINES SHALL BE INSTALLED BY BUILDING PLUMBER AND IN ACCORDANCE WITH THE CURRENT LEE SUMMIT SERVICE LINE DESIGN AND CONSTRUCTION STANDARDS.
 - ROOF DRAINS SHALL NOT BE CONNECTED TO THE SANITARY SEWER.
 - REPLACE/ADD BARREL SECTIONS AS REQUIRED TO MEET THE GRADE REQUIREMENTS.
 - MANHOLE STATIONS AND PIPE LENGTHS SHOWN ON PLANS ARE TO THE CENTER OF MANHOLES. DO NOT SCALE DRAWINGS.
 - CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY PAVEMENT OR SIDEWALKS DAMAGED DURING THE CONSTRUCTION OF THE SANITARY SEWER SERVICE LINE.

SANITARY SEWER PLAN LEGEND

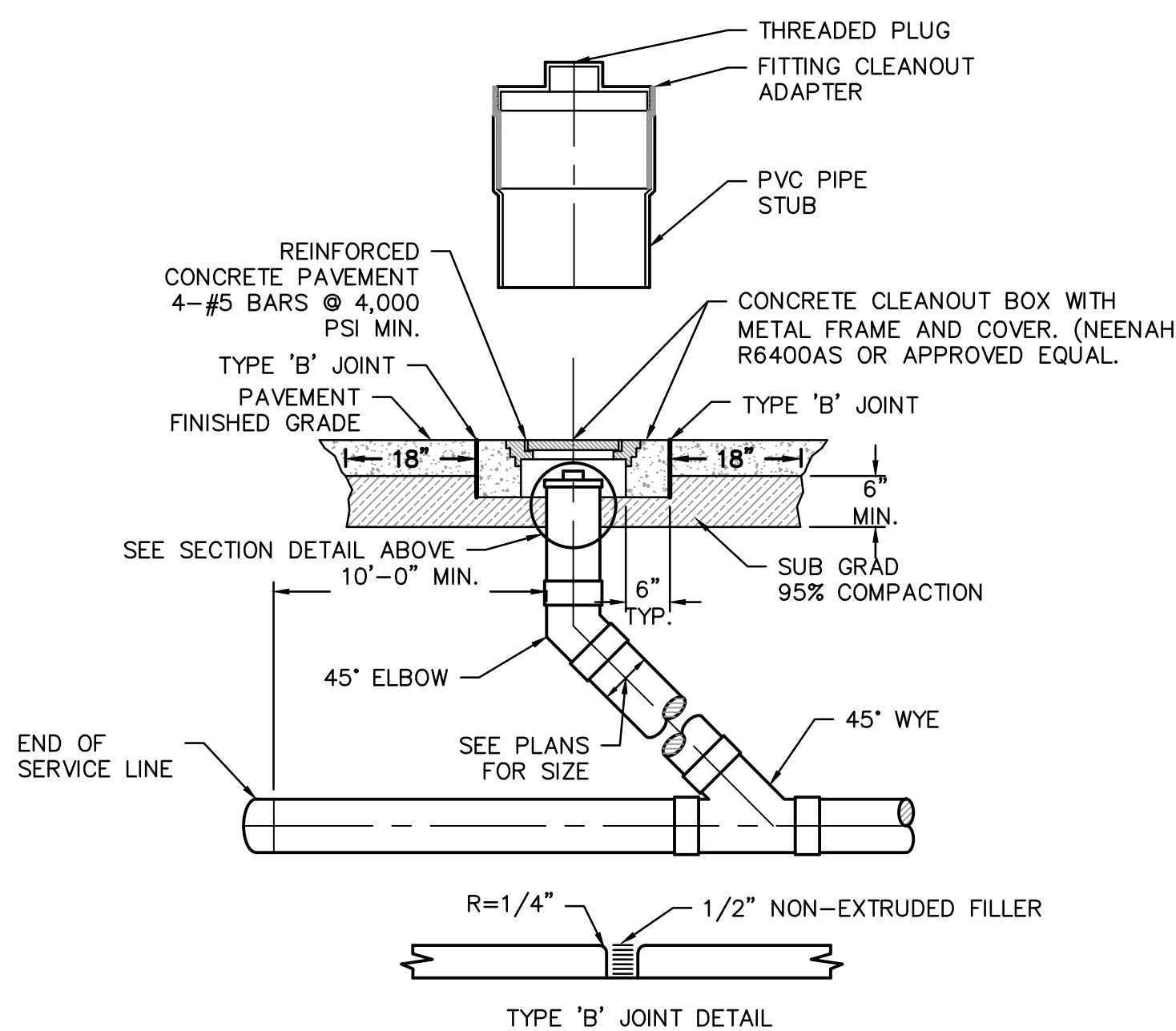
- PROPERTY LINE
- EXISTING SANITARY SEWER
- EXISTING STORM
- EXISTING WATER PIPE
- EXISTING OVERHEAD POWER LINE
- EXISTING UNDERGROUND POWER LINE
- STORM SEWER
- STORM HEADER PIPE AND ROOF DRAINS
- UNDERGROUND POWER CONDUIT
- NATURAL GAS PIPE
- FIRE PROTECTION
- WATER PIPE
- UTILITY EASEMENT
- PROPOSED PRIVATE SANITARY SEWER (SEE SHEETS C6.08 & C6.09)
- PROPOSED SANITARY SEWER SERVICE LINE

EASEMENT/SETBACK LEGEND

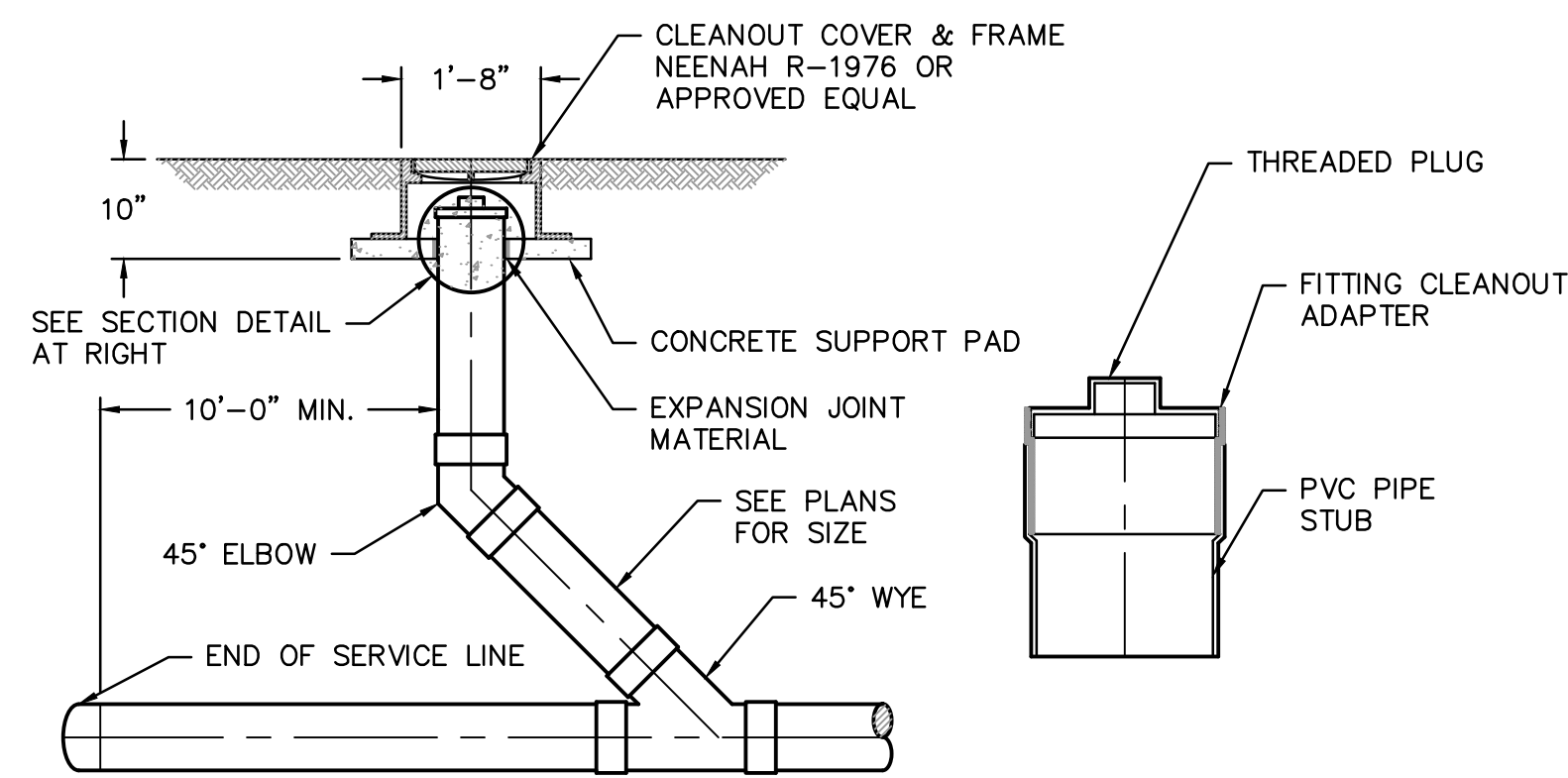
- D/E STORM DRAINAGE EASEMENT
- S/B PROPERTY SETBACK
- S/E SANITARY SEWER EASEMENT
- U/E UTILITY EASEMENT
- E/E ELECTRIC EASEMENT

NOTE

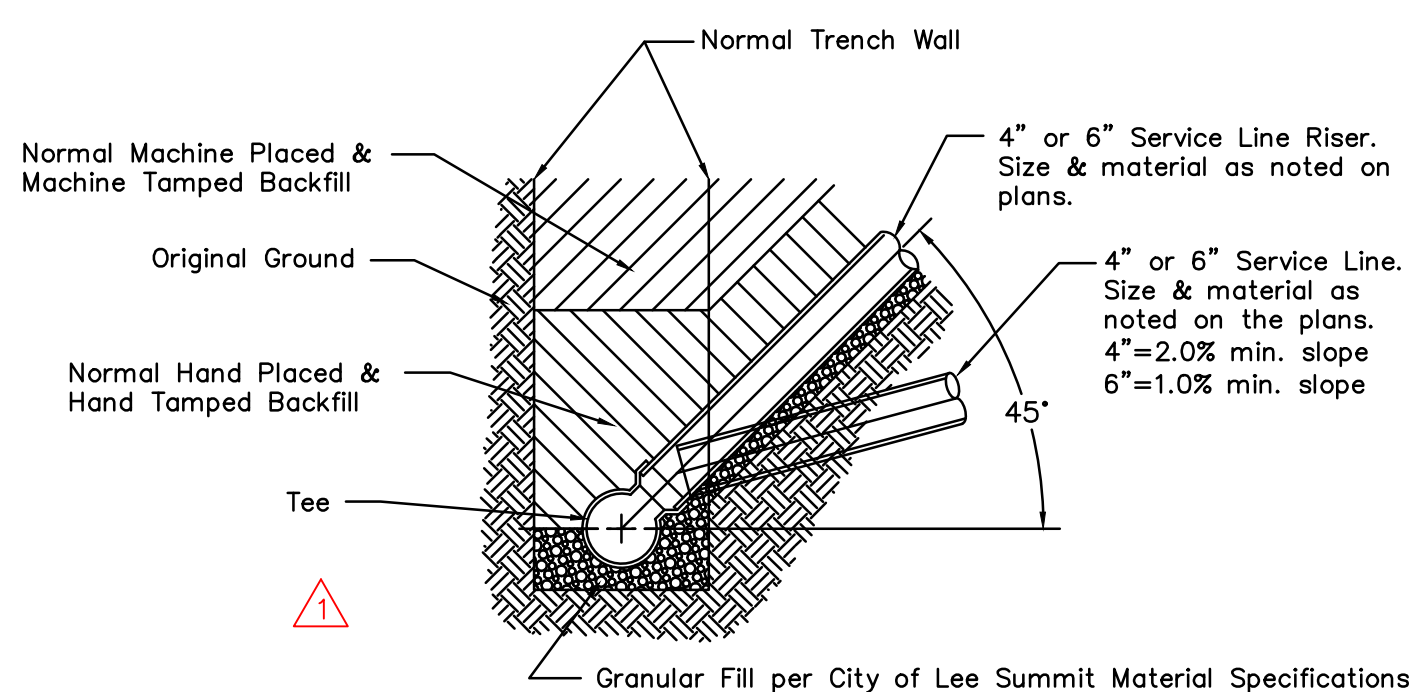
FUTURE IMPROVEMENTS ARE SHOWN FOR REFERENCE ONLY.



HEAVY DUTY ONE-WAY CLEANOUT (IN PAVEMENT) DETAIL
NOT TO SCALE



ONE-WAY WYE CLEANOUT (NOT IN PAVEMENT) DETAIL
NOT TO SCALE



TEE ORIENTATION AND RISER DETAIL
NOT TO SCALE

7301 West 133rd Street, Suite 200
Overland Park, KS 66213-7755
TEL 913.381.1170
www.olsson.com

SCANNELL PROPERTIES

MITCHELL ALAN ETKIN
Professional Engineer
No. 2008010104
PE-2008010104
03-13-12

REV	NO.	DATE	DESCRIPTION
1	12.28.2021	CITY COMMENTS	
2	01.03.2022	DESIGN AND CHANGE CHANGES	
3	01.03.2022	CITY & EIR COMMENTS	
4	02.24.2022	CITY COMMENTS	

OVERALL SANITARY SEWER PLAN
PHASE I/FINAL DEVELOPMENT PLAN

SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET

LEE'S SUMMIT, MISSOURI

drawn by: OLSSON
checked by: ENG
approved by: ENG
checked by: ENG
project no.: 021-04157
drawing no.: 021-04157.dwg
date:

SHEET
C6.05

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE PLANS IN THEIR POSSESSION ARE THE MOST CURRENT VERSION ISSUED, ARE FULLY COORDINATED WITH ALL SUBCONTRACTORS, AND PRESENT ON SITE AT ALL TIMES. CURRENT PLANS PREPARED BY OLSSON MAY BE OBTAINED AT THE DIRECTION OF OLSSON'S CLIENT. DIRECT REQUESTS TO OLSSON MAY REQUIRE ADDITIONAL AUTHORIZATIONS, AGREEMENTS, AND/OR FEES. PLEASE CONTACT THE ENGINEER FOR INFORMATION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEVIATIONS FROM THESE PLANS UNLESS WRITTEN APPROVAL FROM ENGINEER, OWNER, AND DEVELOPER.
3. ALL WORK AND MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE OWNER OR THE OWNER'S REPRESENTATIVE.
4. ALL ESTIMATES OF QUANTITIES ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING QUANTITIES AND ITEMS OF WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK SHOWN IN THE PLANS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS, PAYING ALL FEES, AND FOR OTHERWISE COMPLYING WITH ALL APPLICABLE REGULATIONS GOVERNING THE WORK.
7. THE CONTRACTOR SHALL NOT ENGAGE IN ACTIVITIES THAT MAY ENCROACH ON WATERS OF THE U.S., INCLUDING WETLANDS, UNTIL ANY NECESSARY PERMITS MAY BE OBTAINED. THE CONTRACTOR SHALL REVIEW AND COMPLY WITH ALL CONDITIONS DESCRIBED IN THE PERMIT.
8. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, THE SAFETY OF ALL PERSONS INCLUDING VISITORS AND THE GENERAL PUBLIC, AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY THROUGHOUT THE PROJECT AND NOT BE LIMITED BY WORKING HOURS. ANY CONSTRUCTION OBSERVATION BY THE ENGINEER OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES.
9. PRIOR TO COMMENCEMENT OF WORK THE CONTRACTOR SHALL NOTIFY AND COORDINATE WITH ALL UTILITY COMPANIES AND OBTAIN ANY RELEVANT INFORMATION. NOTIFY ENGINEER OF ANY DISCREPANCIES.
10. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL BOUNDARY CORNERS AND SECTION CORNERS. ANY BOUNDARY CORNER AND/OR SECTION CORNER DISTURBED OR DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE RESET BY A LAND SURVEYOR LICENSED IN THE STATE OF MISSOURI, AT THE CONTRACTOR'S EXPENSE.
11. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ADJACENT PROPERTIES AND SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE DURING CONSTRUCTION. THE CONTRACTOR IS ALSO RESPONSIBLE FOR REPAIRING ANY DAMAGE RESULTING FROM CONSTRUCTION ACTIVITIES.
12. PRIOR TO MOVING OFF THE JOB THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER TO PERFORM A FINAL WALK-THROUGH OF THE CONSTRUCTION SITE.

REFERENCES

1. UNLESS EXPLICITLY DESCRIBED OTHERWISE WITHIN THESE PLANS THE FOLLOWING SHALL APPLY:
 - A. ALL CONSTRUCTION, INCLUDING THOSE LISTED BELOW, SHALL CONFORM TO THE LATEST CODES AND ORDINANCES OF LEE'S SUMMIT, MISSOURI.
 - B. ALL CONSTRUCTION IN MODOT RIGHT-OF-WAY SHALL CONFORM TO THE LATEST SPECIFICATIONS ADOPTED BY U.S. DEPARTMENT OF TRANSPORTATION AND MODOT.
 - C. ALL TRAFFIC CONTROL SIGNAGE SHALL CONFORM WITH THE CURRENT EDITION OF THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
 - D. ALL UTILITY EXTENSIONS AND CONSTRUCTION SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE UTILITY COMPANIES.
 - E. ALL EXTERIOR PAVEMENT (PCC, ASPHALT, ETC.) SHALL BE IN CONFORMANCE WITH THE SPECIFICATIONS OF LEE'S SUMMIT, MISSOURI
4. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE DELIVERY MANAGER AND COORDINATING ANY MAILBOXES THAT MAY BE DISTURBED. FAILURE TO DO SO MAY SUBJECT THE CONTRACTOR TO PROSECUTION BY THE FEDERAL GOVERNMENT.

EXISTING CONDITIONS

1. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS OF THE PROJECT AREA.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING THEIR OWN INVESTIGATIONS AND MAKING THEIR OWN ASSUMPTIONS REGARDING SITE SURFACE AND SUBSURFACE CONDITIONS. THIS INCLUDES THE LOCATION AND CONSISTENCY OF ANY EXISTING ROCK LAYERS UNDERLYING THE PROJECT SITE. CONTACT THE ENGINEER REGARDING ANY DISCREPANCIES THAT MAY AFFECT THE ABILITY TO CONSTRUCT FROM THESE PLANS AS DESIGNED.
3. EXISTING CONDITIONS WERE DETERMINED THROUGH A VARIETY OF METHODS THAT MAY INCLUDE SURVEY, AERIAL IMAGERY, AVAILABLE RECORDS, GIS DATA, ETC. SUBSURFACE CONDITIONS ARE APPROXIMATE AND MAY NOT INCLUDE ALL UTILITIES AND OTHER SITE IMPROVEMENTS PRESENT ON SITE. THE CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING UNDERGROUND UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS WHEN CONFLICTS AND DISCREPANCIES ARE FOUND.

CONSTRUCTION

1. THE CONTRACTOR SHALL INSTALL TRAFFIC CONTROL WHILE WORKING IN THE PUBLIC RIGHT-OF-WAY AS SHOWN IN THESE PLANS. IF PLANS ARE NOT PROVIDED, CONTRACTOR SHALL COORDINATE AND PROVIDE CONTROLS TO THE SATISFACTION OF THE RIGHT-OF-WAY OWNER.
2. THE CONTRACTOR SHALL PROTECT ALL TREES OVER 3" CALIPER FROM DAMAGE. NO TREE SHALL BE REMOVED WITHOUT PERMISSION OF THE OWNER, UNLESS SHOWN OTHERWISE ON THESE PLANS.
3. THE CONTRACTOR SHALL DISPOSE ALL WASTE MATERIAL RESULTING FROM THE PROJECT OFF-SITE AND IN STRICT CONFORMANCE WITH ALL LOCAL CODES AND ORDINANCES.
4. ALL MANHOLES, CATCH BASINS, UTILITY VALVES AND METER PITS ARE TO BE ADJUSTED OR REBUILT TO GRADE AS REQUIRED. NOT ALL ADJUSTMENTS ARE INDICATED IN THE PLANS.
5. THE CONTRACTOR SHALL STREET SWEEP OR OTHERWISE CLEAN ALL ACCESS ROUTES TO THE SITE AT CONCLUSION OF THE PROJECT.

SHOP DRAWINGS

1. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING A MINIMUM OF 7 DAYS PRIOR TO THE REQUESTED DATE OF APPROVAL. ENGINEER SHALL REVIEW SHOP DRAWINGS OR SAMPLES CONFORMANCE WITH THE DESIGN FOR THIS PROJECT AS DESCRIBED IN THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS. THE ENGINEER'S REVIEW SHALL NOT EXTEND TO MEANS OR METHODS OF CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY VARIATION FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS UNLESS CONTRACTOR HAS NOTIFIED ENGINEER OF EACH SUCH VARIATION AT THE TIME OF SUBMISSION, AND OBTAINED ENGINEER'S WRITTEN APPROVAL OF EACH SUCH VARIATION. PRIOR TO SUBMITTING EACH SHOP DRAWING OR SAMPLE, CONTRACTOR SHALL HAVE REVIEWED AND VERIFIED:
 - A. ALL FIELD MEASUREMENTS, QUANTITIES, DIMENSIONS, SPECIFIED PERFORMANCE CRITERIA, INSTALLATION REQUIREMENTS, MATERIALS, CATALOG NUMBERS AND SIMILAR INFORMATION WITH RESPECT THERETO;
 - B. ALL MATERIALS WITH RESPECT TO INTENDED USE, FABRICATION, SHIPPING, HANDLING, STORAGE, ASSEMBLY AND INSTALLATION PERTAINING TO THE PERFORMANCE OF THE WORK;
 - C. ALL INFORMATION RELATIVE TO MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENT THERETO;
 - D. CONTRACTOR SHALL ALSO HAVE REVIEWED AND COORDINATED EACH SHOP DRAWING OR SAMPLE WITH OTHER SHOP DRAWINGS AND SAMPLES, AND WITH THE REQUIREMENTS OF THE WORK AND THE CONTRACT DOCUMENTS.
 - E. ALL SUBMITTED SHOP DRAWINGS SHALL BEAR A STAMP OR SPECIFIC WRITTEN INDICATION AND SIGNATURE THAT CONTRACTOR HAS FULLY COMPLETED THE ABOVE TASKS.
2. SHOP DRAWINGS AS DESCRIBED ABOVE ARE REQUIRED FOR, BUT NOT LIMITED TO, THE FOLLOWING:
 - A. ALL SANITARY SEWER STRUCTURES TO BE INSTALLED WITH THIS PROJECT.
 - B. ANY ITEMS IN THESE PLANS THAT ALLOW FOR AN "APPROVED EQUAL" ALTERNATIVE.

SANITARY SEWER GENERAL NOTES

1. PRIOR TO COMMENCEMENT OF WORK THE CONTRACTOR SHALL NOTIFY AND COORDINATE CONSTRUCTION WITH CITY OF LEE'S SUMMIT, MISSOURI.
2. ALL PIPE LENGTHS ARE CALCULATED LINEARLY FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
4. ALL STRUCTURE DIMENSIONS ARE TO INSIDE FACE OF STRUCTURE.
5. COORDINATES ARE PROVIDED AT THE CENTER OF STRUCTURE. ADDITIONAL COORDINATES PROVIDED ARE PER LOCAL CODES AND ORDINANCES OR AS AN AID WHEN ORIENTING THE LID DURING INSTALLATION.
6. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICT AND POINTS OF CONNECTION PRIOR TO ANY CONSTRUCTION OF SANITARY SEWER.
7. SANITARY SEWER TRENCHES SHALL BE CONSTRUCTED SUCH THAT UNDISTURBED EXISTING SOIL OR FILL COMPACTED TO 95% PROCTOR DENSITY IS AT A DEPTH THAT IS 18" ABOVE TOP OF PROPOSED PIPE.
8. MANHOLE INVERT CHANNELS SHALL BE SMOOTH, CIRCULAR, AND CONFORMING TO 1/4 THE ADJACENT PIPE SECTION (INVERT TO CENTER). CHANGES IN DIRECTION OF FLOW SHALL BE MADE WITH A SMOOTH CURVE AND MAINTAIN SHAPE THROUGHOUT. CHANGES IN GRADE OF ADJACENT PIPES SHALL BE TRANSITIONED SMOOTHLY AND EVENLY THROUGH THE MANHOLE.
9. PIPE PENETRATIONS SHALL USE GASKETS TO ENSURE WATERTIGHT SEALS.
10. TRACING TAPE SHALL BE INSTALLED ALONG ALL NON-METALLIC SURFACES OR AS DIRECTED BY LOCAL CODES AND ORDINANCES.
11. SEWER LINE INSPECTIONS AND TESTING MUST BE SCHEDULED A MINIMUM OF TWO FULL BUSINESS DAYS IN ADVANCE. CONTRACTOR SHALL FURNISH ALL TESTING EQUIPMENT. TESTING SHALL INCLUDE
 - A. MANDREL TEST OF ALL GRAVITY SEWERS. IF THE MANDREL TEST FAILS ON ANY SECTION OF PIPE, THAT SECTION SHALL BE UNCOVERED AND REPLACED.
 - B. AIR PRESSURE TEST OF ALL GRAVITY SEWERS.
 - C. VACUUM TEST OF ALL MANHOLES.
12. REFER TO SHEET SS3.02 FOR SANITARY DESIGN & SEWER LATERAL INFORMATION.
13. ALL SERVICE LINE CONNECTIONS SHALL BE MADE WITH AN 8"x8" PVC WYE, 8"PVC 45° BEND, AND THE APPROPRIATE LENGTH OF 8" PVC LATERAL (UNLESS OTHERWISE SHOWN) AND CAP. SEE DETAIL SHEET SS4.00.
14. MSFE- INDICATES LOWEST FLOOR SERVICEABLE BY PROPOSED SANITARY SEWER.
15. MAXIMUM DEVIATION FROM LATERAL STATION LOCATIONS AS CALLED OUT SHALL BE 2.0' TO AVOID PIPE JOINT.
16. SANITARY LATERALS ARE DESIGNED @ 2.00% SLOPE. IF RISER IS INDICED, IT IS TO BE AT THE SANITARY MAIN, UNLESS OTHERWISE NOTED.
17. REFER TO CURRENT CITY SPECIFICATIONS FOR MINIMUM PIPE SLOPES.
18. CONTRACTOR MAY BE REQUIRED TO RECONSTRUCT PIPE AND STRUCTURE IF MINIMUM INVERT DROP OR PIPE SLOPE REQUIREMENTS ARE NOT MET.
19. SANITARY STRUCTURES SHALL BE PER CURRENT CITY DETAILS. IF CITY DOES NOT HAVE PUBLISHED DETAILS STRUCTURES SHALL BE PER CURRENT APWA SPECIFICATIONS.
20. GRAVITY SANITARY SEWER AND WATER LINES SHALL BE SEPARATED BY A MINIMUM OF 10' HORIZONTALLY WHEN PARALLEL AND 2' VERTICALLY WHEN CROSSING. WATER LINES SHALL CROSS ABOVE SANITARY SEWERS.

ESTIMATE OF QUANTITIES					
ITEM NO.	DESCRIPTION	QUANTITY	UNIT	AS-BUILT QUANTITY	UNIT
1	CONNECT TO EXISTING SANITARY SEWER	1	EA.		EA.
2	10" PVC SDR-26 PIPE (MAIN LINE)	150.34	L.F.		L.F.
3	STANDARD 4'-0" I.D. MANHOLE (8' DEEP)	2	EA.		EA.

SUMMARY OF QUANTITIES AS INDICATED ABOVE AND ANY QUANTITIES AS SHOWN WITHIN THE PLANS HAVE BEEN PROVIDED FOR PERMITTING PURPOSES ONLY AND ARE NOT INTENDED FOR USE IN PREPARATION OF CONTRACT DOCUMENTS. QUANTITIES INTENDED FOR, BUT NOT LIMITED TO, THE PREPARATION OF PROPOSALS AND BID DOCUMENTS SHALL BE INDEPENDENTLY EVALUATED BY THE ESTIMATING PARTY BASED UPON THE CONTENTS OF THESE PLANS.

drawn by: OLSSON
checked by: ENG
approved by: ENG
QA/QC by: ENG
project no.: 021-04157
drawing no: c_SAN02_GNL_02104157
date:

SHEET
C6.05A

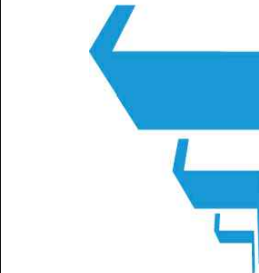
SANITARY GENERAL NOTES
PHASE I/FINAL DEVELOPMENT PLAN
SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET
LEE'S SUMMIT, MISSOURI

2021

REVISIONS

REV. NO.	DATE	REVISIONS DESCRIPTION
1	12/28/2021	CITY COMMENTS
2	01/05/2022	OWNER COMMENTS AND CHANGES
3	02/03/2022	CITY & ENGINEER COMMENTS
4	02/24/2022	CITY COMMENTS

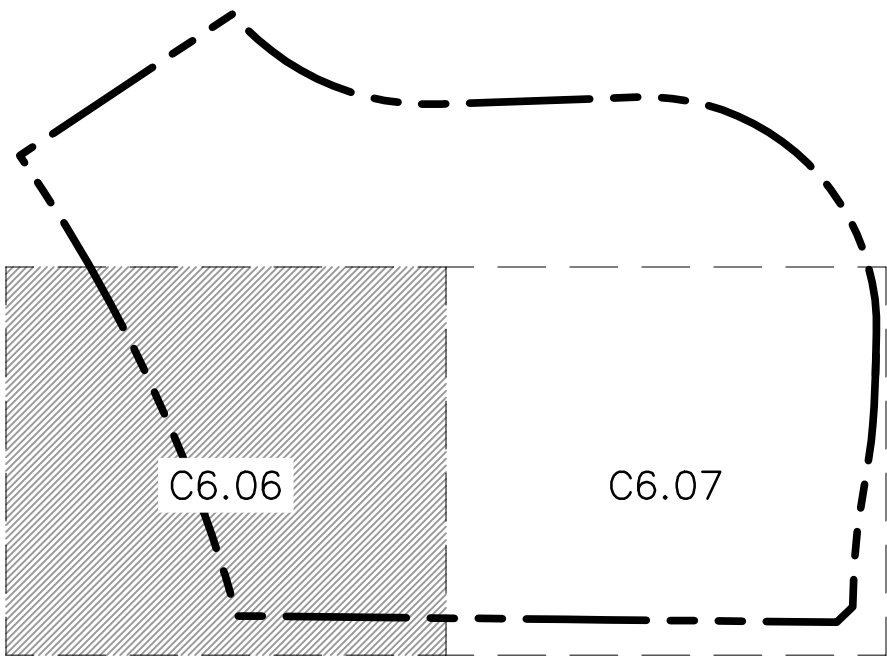
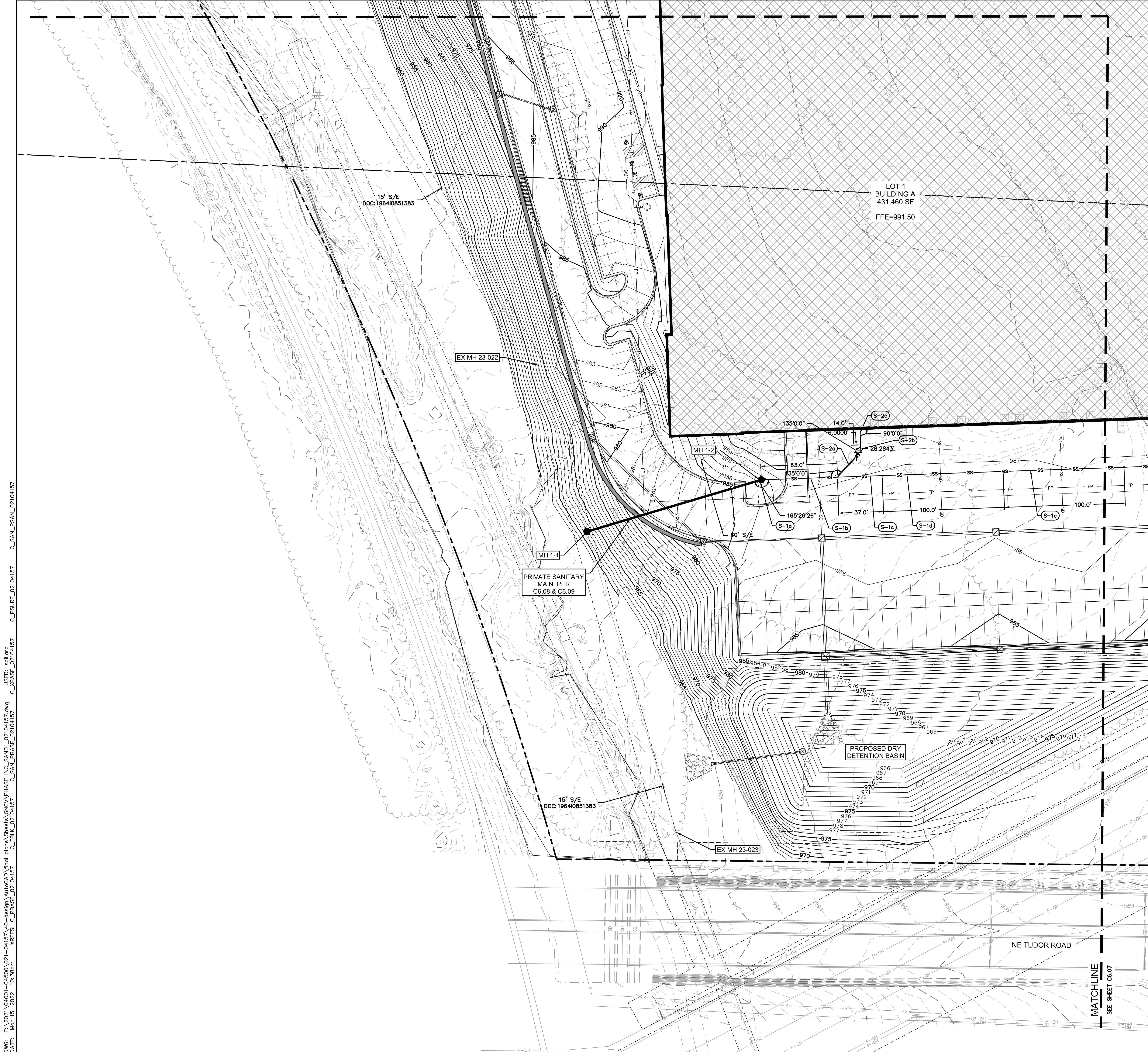
BY



SCANNELL
P R O P E R T I E S

olsson

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KEY MAP
NOT TO SCALE

SANITARY SEWER PLAN LEGEND

- PROPERTY LINE
- EXISTING SANITARY SEWER
- EXISTING STORM
- EXISTING WATER PIPE
- EXISTING OVERHEAD POWER LINE
- EXISTING UNDERGROUND POWER LINE
- STORM SEWER
- STORM HEADER PIPE AND ROOF DRAINS
- UNDERGROUND POWER CONDUIT
- NATURAL GAS PIPE
- FIRE PROTECTION
- WATER PIPE
- UTILITY EASEMENT
- PROPOSED PRIVATE SANITARY SEWER (SEE SHEETS C6.08 & C6.09)
- PROPOSED SANITARY SEWER SERVICE LINE

NOTE

FUTURE IMPROVEMENTS ARE SHOWN FOR REFERENCE ONLY.

KEYNOTES

- SANITARY SEWER (S-#)**
- BUILDING A CONNECTION (CONTINUED ON NEXT SHEET)
 - PROPOSED MANHOLE. REFERENCE SHEETS C6.08 AND C6.09 FOR DETAILS.
INV. EL (OUT) @ MANHOLE (10" PVC)= 972.75
INV. EL (IN) @ MANHOLE (8" PVC)= 972.95
 - CONNECT TO MANHOLE AND INSTALL 63.0± L.F. OF 8" PVC SDR-26 W/ PUSH ON JOINTS @ 1.25%. THEN INSTALL WYE CONNECTION.
INV. EL @ WYE= 973.74
INV. EL @ STUB= 974.41
 - CONNECT TO WYE CONNECTION AND INSTALL 37.0± L.F. OF 8" PVC SDR-26 W/ PUSH ON JOINTS @ 1.25%. THEN INSTALL CLEANOUT IN PAVEMENT. REFERENCE CLEANOUT DETAIL PER SHEET C6.05.
INV. EL @ CLEANOUT=974.20
 - CONNECT TO CLEANOUT AND INSTALL 100.0± L.F. OF 8" PVC SDR-26 W/ PUSH ON JOINTS @ 1.25%. THEN INSTALL CLEANOUT IN PAVEMENT. REFERENCE CLEANOUT DETAIL PER SHEET C6.05.
INV. EL @ BUILDING=975.45
 - CONNECT TO CLEANOUT AND INSTALL 100.0± L.F. OF 8" PVC SDR-26 W/ PUSH ON JOINTS @ 1.25%. THEN INSTALL CLEANOUT IN PAVEMENT. REFERENCE CLEANOUT DETAIL PER SHEET C6.05.
INV. EL @ BUILDING=976.70
 - BUILDING A CONNECTION
 - CONNECT TO WYE CONNECTION AND INSTALL 28.3 L.F. OF 8" PVC SDR-26 W/ PUSH ON JOINTS @ 2.00%. THEN INSTALL 45° BEND.
INV. EL @ 45° BEND= 974.98
 - CONNECT TO 45° BEND AND INSTALL CLEANOUT IN PAVEMENT. THEN CONNECT TO CLEANOUT AND INSTALL 8.49 FEET OF 8" PVC SDR-26 VERTICAL RISER (6.00 FT OF RISE). REFERENCE CLEANOUT AND RISER DETAILS PER SHEET C6.05.
INV @ 45° BEND= 974.98
INV @ END OF RISER= 980.98
 - CONNECT TO END OF RISER AND INSTALL 14.0± L.F. OF 8" PVC SDR-26 W/ PUSH ON JOINTS @ 7.32%. THEN INSTALL REDUCER AS NEEDED AND CONNECT TO BUILDING WITH FERNOCO STRONGBACK RC COUPLING FOR DISSIMILAR PIPE CONNECTION.
FG @ BUILDING=987.50
INV. EL @ BUILDING=982.00

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SCANNELL

PROPERTIES

STATE OF MISSOURI

MITCHELL ALAN PEAK
No. 2, No. 1
NUMBER
PE 2008010104
03-13-12
PROFESSIONAL ENGINEER

BY

REVISIONS DESCRIPTION

REV. NO.

DATE

1

12/24/2021

CITY COMMENTS

2

02/03/2022

CITY COMMENTS

3

02/03/2022

CITY COMMENTS

4

02/24/2022

CITY COMMENTS

SANITARY SEWER CONNECTION PLAN
PHASE I FINAL DEVELOPMENT PLAN

SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET
LEE'S SUMMIT, MISSOURI

2021

drawn by: OLSSON

checked by: ENG

approved by: ENG

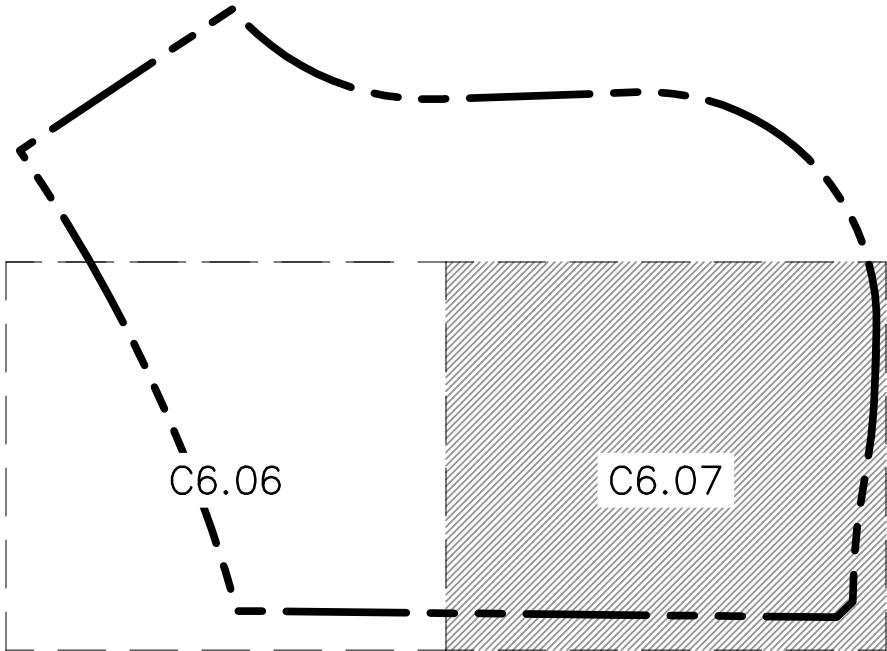
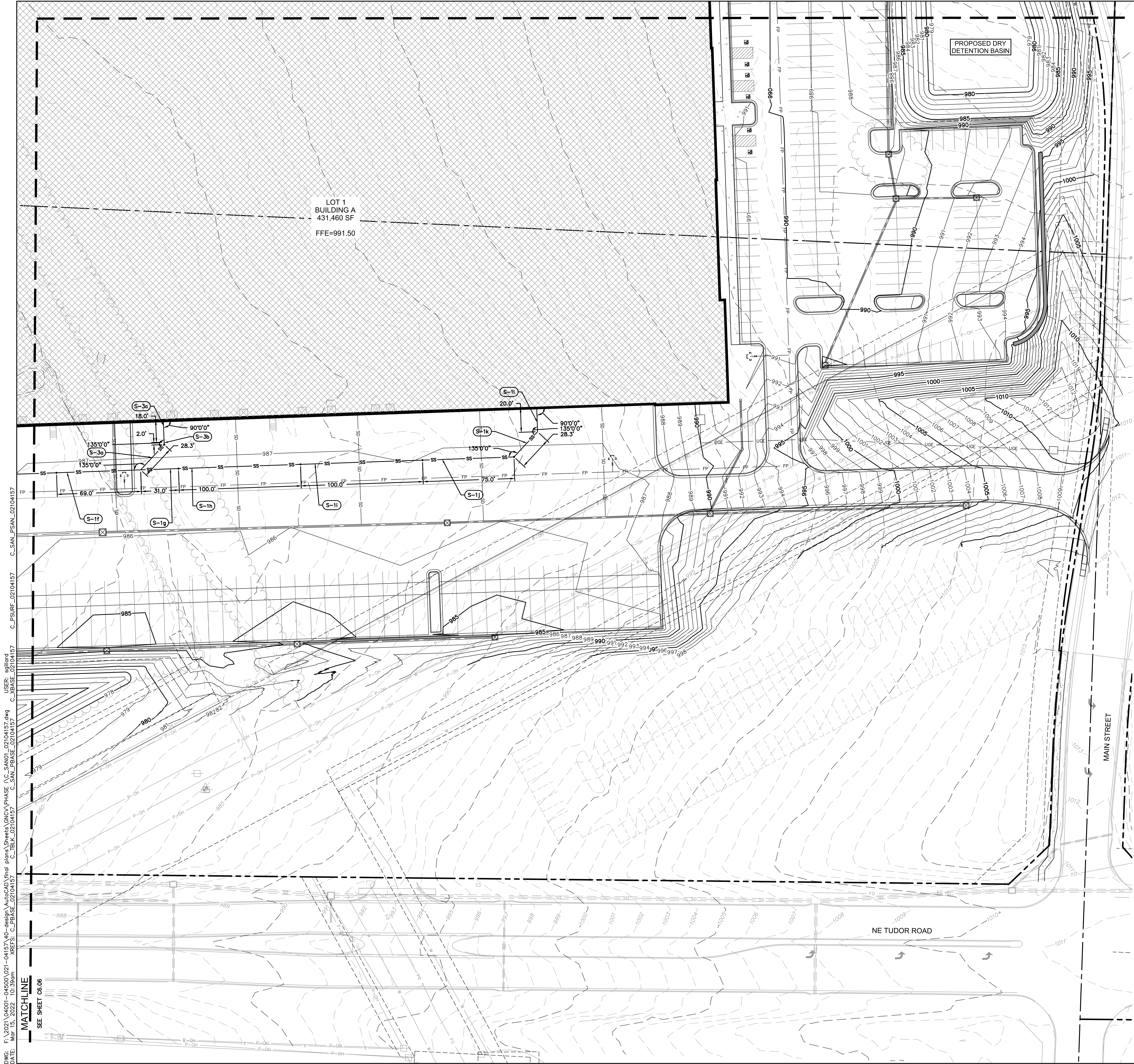
QA/QC by: ENG

project no.: 021-04157

drawing no.: SAN01_02104157.dwg

date:

SHEET
C6.06



KEY MAP
NOT TO SCALE

SANITARY SEWER PLAN LEGEND

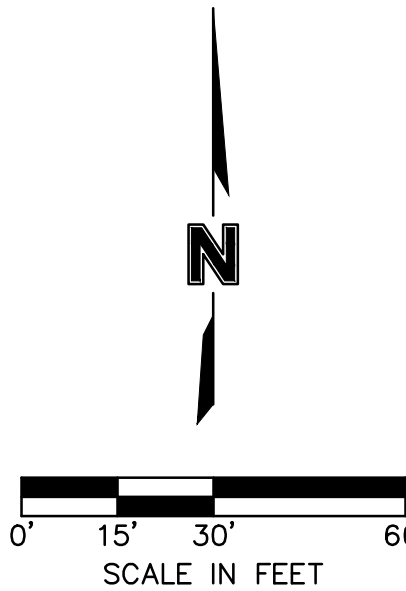
- PROPERTY LINE
- EXISTING SANITARY SEWER
- EXISTING STORM
- EXISTING WATER PIPE
- EXISTING OVERHEAD POWER LINE
- EXISTING UNDERGROUND POWER LINE
- STORM SEWER
- STORM HEADER PIPE AND ROOF DRAINS
- UNDERGROUND POWER CONDUIT
- NATURAL GAS PIPE
- FIRE PROTECTION
- WATER PIPE
- UTILITY EASEMENT
- PROPOSED PRIVATE SANITARY SEWER (SEE SHEETS C6.08 & C6.09)
- PROPOSED SANITARY SEWER SERVICE LINE

NOTE

FUTURE IMPROVEMENTS ARE SHOWN FOR REFERENCE ONLY.

KEYNOTES

- SANITARY SEWER (S-#)**
- 1 - BUILDING A CONNECTION (CONTINUED FROM PREVIOUS SHEET)
- f. CONNECT TO CLEANOUT AND INSTALL 69.0± L.F. OF 8" PVC SDR-26 W/ PUSH ON JOINTS @ 1.25%. THEN INSTALL WYE CONNECTION.
INV. EL @ WYE= 977.57
INV. EL @ STUB= 978.24
- g. CONNECT TO WYE CONNECTION AND INSTALL 31.0± L.F. OF 8" PVC SDR-26 W/ PUSH ON JOINTS @ 1.25%. THEN INSTALL CLEANOUT IN PAVEMENT. REFERENCE CLEANOUT DETAIL PER SHEET C6.05.
INV. EL @ CLEANOUT= 977.95
- h. CONNECT TO CLEANOUT AND INSTALL 100.0± L.F. OF 8" PVC SDR-26 W/ PUSH ON JOINTS @ 1.25%. THEN INSTALL CLEANOUT IN PAVEMENT. REFERENCE CLEANOUT DETAIL PER SHEET C6.05.
INV. EL @ CLEANOUT= 979.21
- i. CONNECT TO CLEANOUT AND INSTALL 100.0± L.F. OF 8" PVC SDR-26 W/ PUSH ON JOINTS @ 1.25%. THEN INSTALL CLEANOUT IN GREENSPACE. REFERENCE CLEANOUT DETAIL PER SHEET C6.05.
INV. EL @ CLEANOUT= 980.46
- j. CONNECT TO CLEANOUT AND INSTALL 75.0± L.F. OF 8" PVC SDR-26 W/ PUSH ON JOINTS @ 1.25%. THEN INSTALL 45° BEND AND CLEANOUT IN GREENSPACE. REFERENCE CLEANOUT DETAIL PER SHEET C6.05.
INV. EL @ 45° BEND= 981.40
- k. CONNECT TO 45° BEND AND INSTALL 28.3± L.F. OF 8" PVC SDR-26 W/ PUSH ON JOINTS AT 1.25%. THEN INSTALL 45° BEND.
INV. EL @ 45° BEND= 981.75
- l. CONNECT TO 45° BEND AND INSTALL 20.0± L.F. OF 8" PVC SDR-26 W/ PUSH ON JOINTS @ 1.25%. THEN INSTALL REDUCER AS NEEDED AND CONNECT TO BUILDING WITH FERNCO STRONGBACK RC COUPLING FOR DISSIMILAR PIPE CONNECTION.
FG @ BUILDING=989.00
INV. EL @ BUILDING=982.00
- 3 - BUILDING A CONNECTION
- a. CONNECT TO WYE CONNECTION AND INSTALL 28.3 L.F. OF 8" PVC SDR-26 W/ PUSH ON JOINTS @ 2.00%. THEN INSTALL 45° BEND.
INV. EL @ 45° BEND= 978.81
- b. CONNECT TO 45° BEND AND INSTALL CLEANOUT IN PAVEMENT. THEN CONNECT TO CLEANOUT AND INSTALL 2.83 FEET OF 8" PVC SDR-26 VERTICAL RISER (2.00 FT OF RISE). REFERENCE RISER AND CLEANOUT DETAILS PER SHEET C6.05.
INV @ 45° BEND= 978.81
INV @ END OF RISER= 980.81
- c. CONNECT TO END OF RISER AND INSTALL 18.0± L.F. OF 8" PVC SDR-26 W/ PUSH ON JOINTS @ 6.64%. THEN INSTALL REDUCER AS NEEDED AND CONNECT TO BUILDING WITH FERNCO STRONGBACK RC COUPLING FOR DISSIMILAR PIPE CONNECTION.
FG @ BUILDING=987.50
INV. EL @ BUILDING=982.00



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STATE OF MISSOURI
MITCHELL ALAN
FE 28989184
03-13-12
PROFESSIONAL ENGINEER

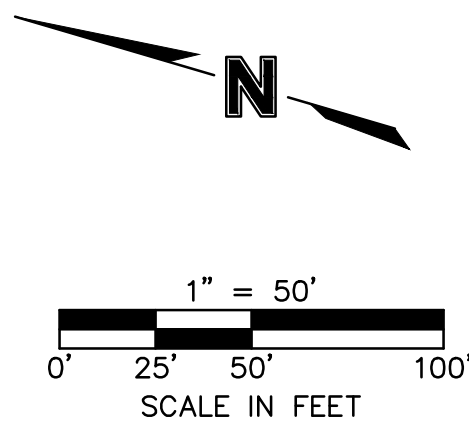
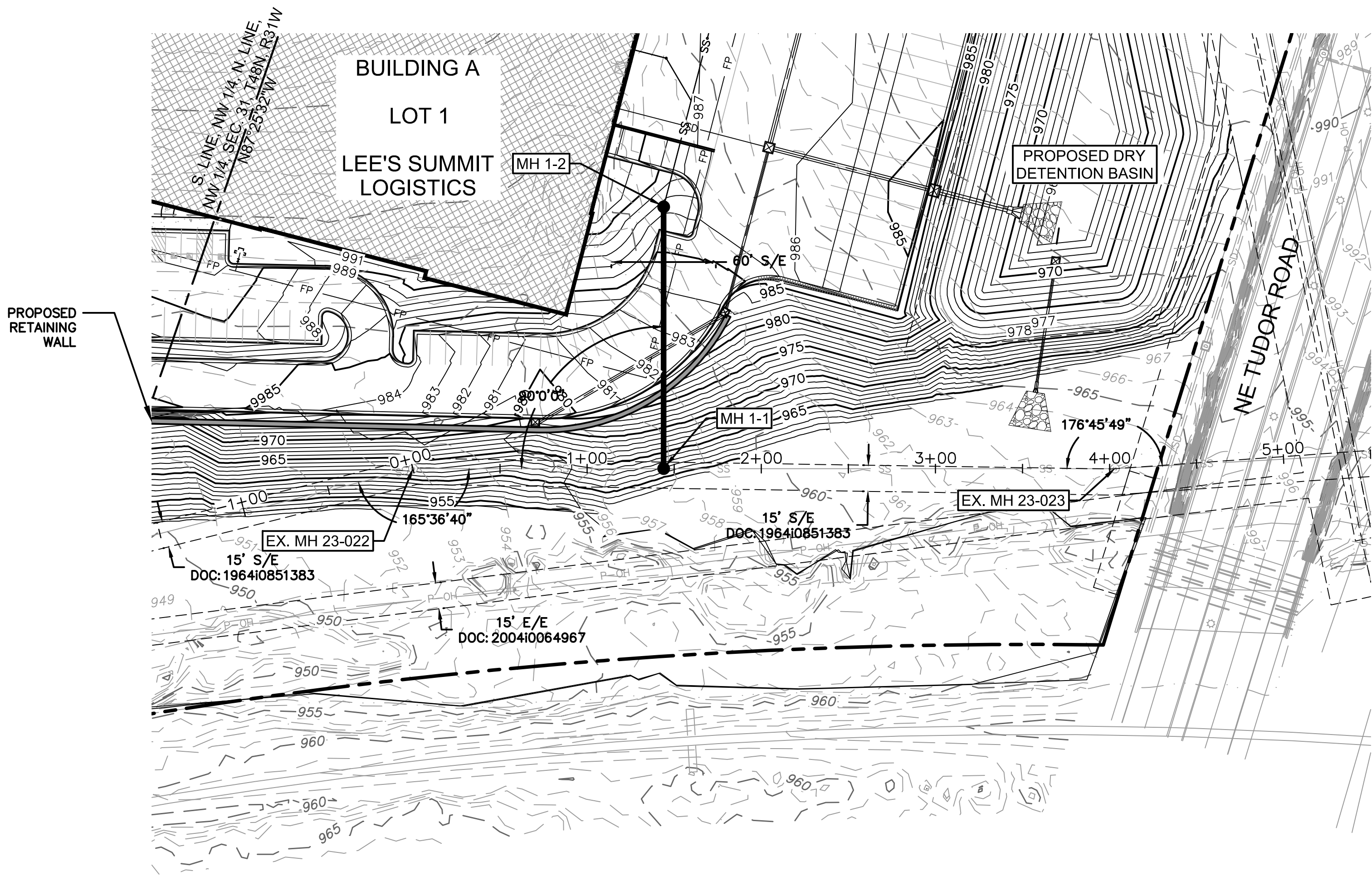
SANITARY SEWER CONNECTION PLAN
PHASE I FINAL DEVELOPMENT PLAN

SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET
LEE'S SUMMIT, MISSOURI

2021

drawn by: OLSSON
checked by: ENG
approved by: ENG
checked by: ENG
project no.: 021-04157
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date:

SHEET
C6.07



LEGEND	
	PROPERTY LINE
	EXISTING CONTOUR
	PROPOSED CONTOUR

EASEMENT/SETBACK LEGEND

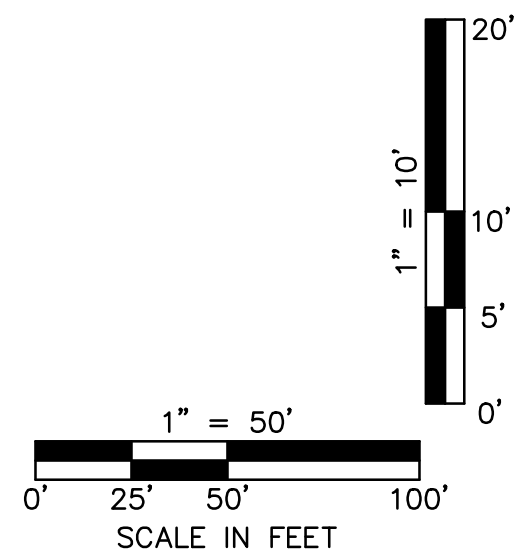
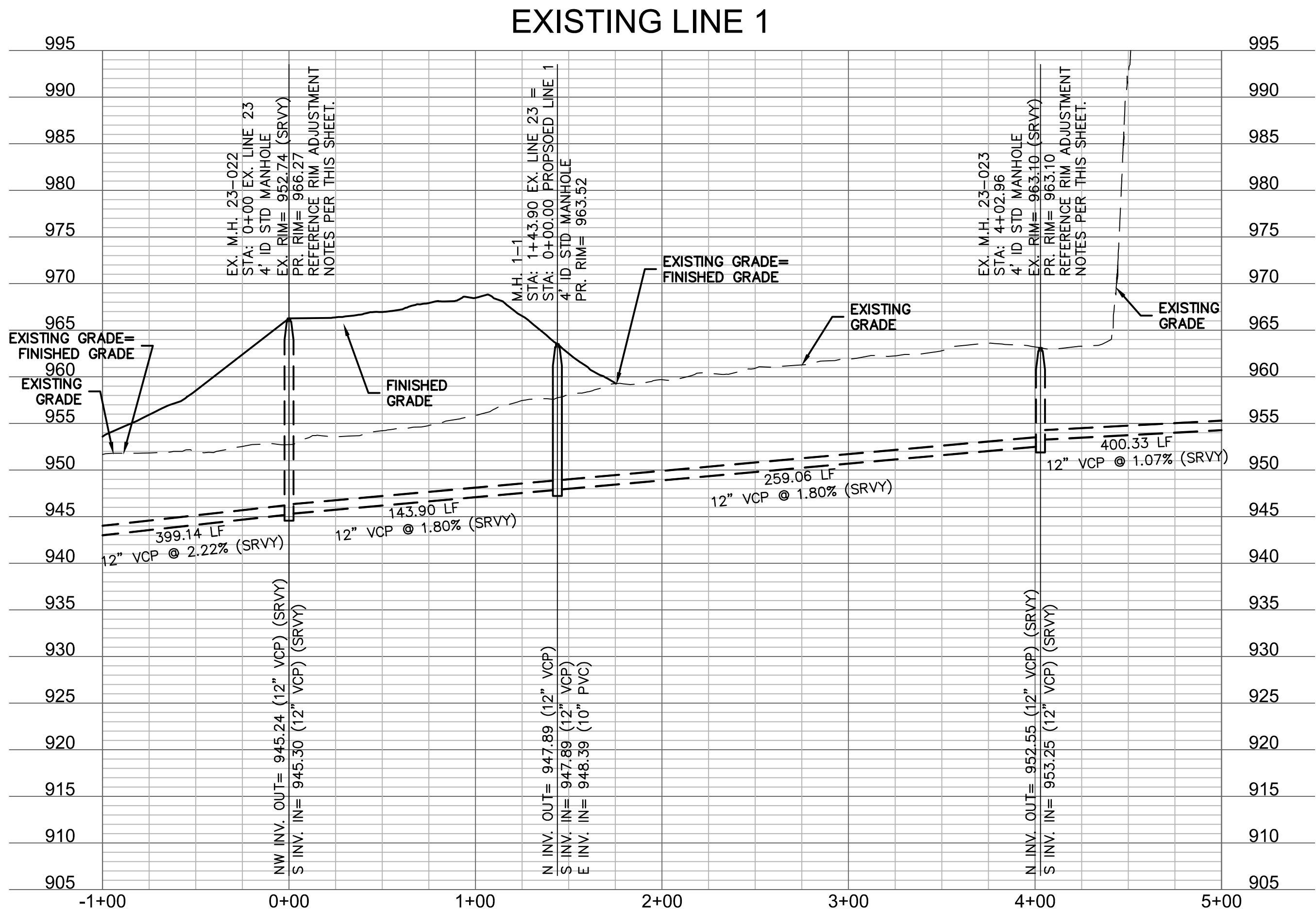
D/E STORM DRAINAGE EASEMENT
S/B PROPERTY SETBACK
S/E SANITARY SEWER EASEMENT
U/E UTILITY EASEMENT
E/E ELECTRIC EASEMENT

SANITARY SEWER NOTES:

- ALL SANITARY SEWER SERVICE PIPE SHALL BE PVC SDR-26. SEWER SERVICE LINE W/PUSH ON JOINTS.
- TEN FEET OF HORIZONTAL SEPARATION AND TWO FEET OF VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN WATER LINES AND THE SANITARY SEWER SERVICE LINE.
- IN THE EVENT OF WORK IN OR ON THE UG SANITARY MAIN, ANY TREES OR PLANTINGS PLACED WITHIN THE SEWER EASEMENT MAY BE REMOVED WITHOUT REPLACEMENT OR COMPENSATION THERE-OF.
- FOR VERTICAL RISERS AND ENCASEMENTS, SEE SANITARY SEWER CONNECTION SHEETS.
- ROOF DRAINS SHALL NOT BE CONNECTED TO THE SANITARY SEWER.
- REPLACE/ADD BARREL SECTIONS AS REQUIRED TO MEET THE GRADE REQUIREMENTS.
- MANHOLE STATIONS AND PIPE LENGTHS SHOWN ON PLANS ARE TO THE CENTER OF MANHOLES. DO NOT SCALE DRAWINGS.
- CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY PAVEMENT OR SIDEWALKS DAMAGED DURING THE CONSTRUCTION OF THE SANITARY SEWER MAIN.

RIM ADJUSTMENT NOTES:

- REPLACE/ADD BARREL SECTIONS AS REQUIRED TO MEET THE GRADE REQUIREMENTS.



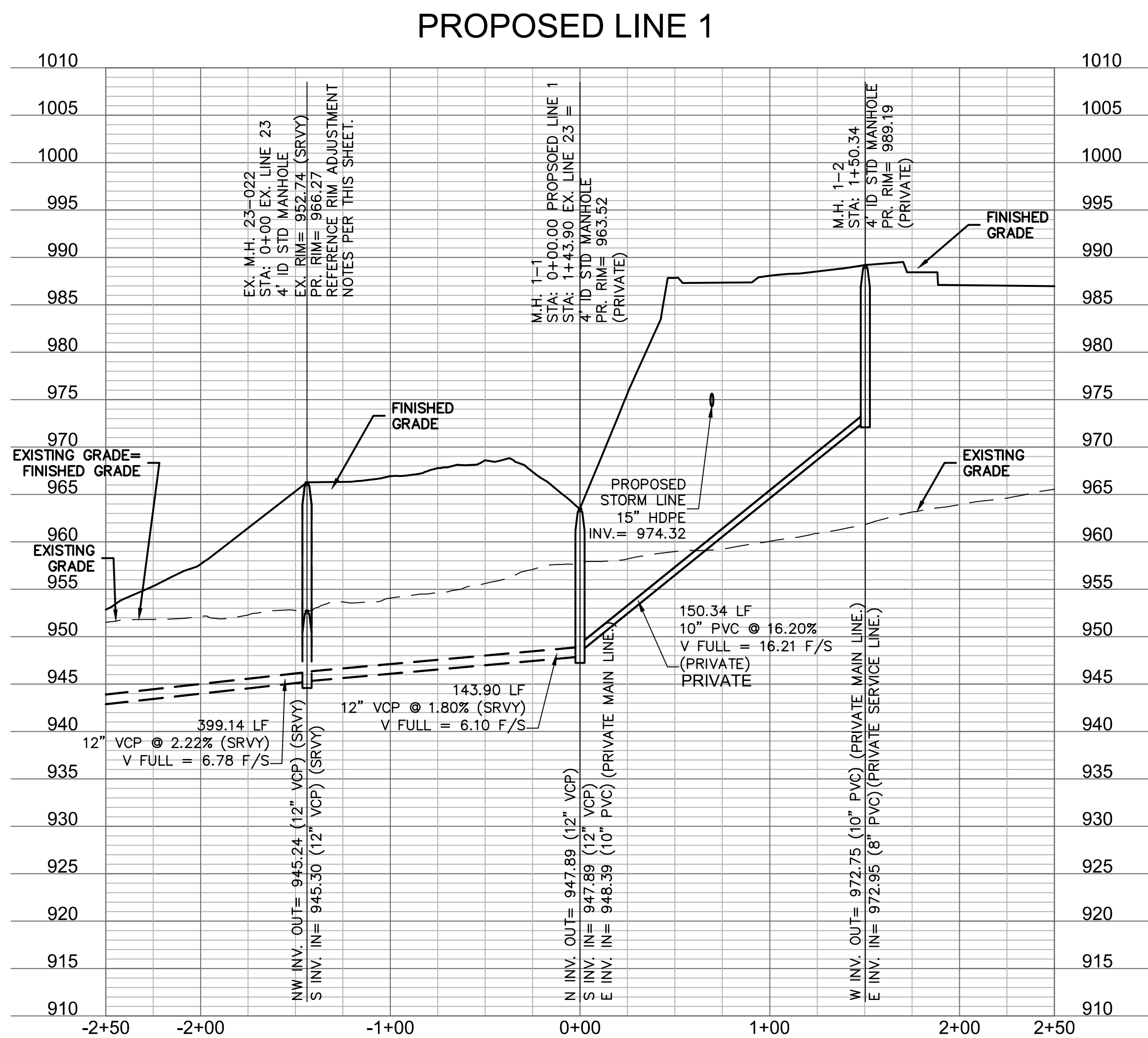
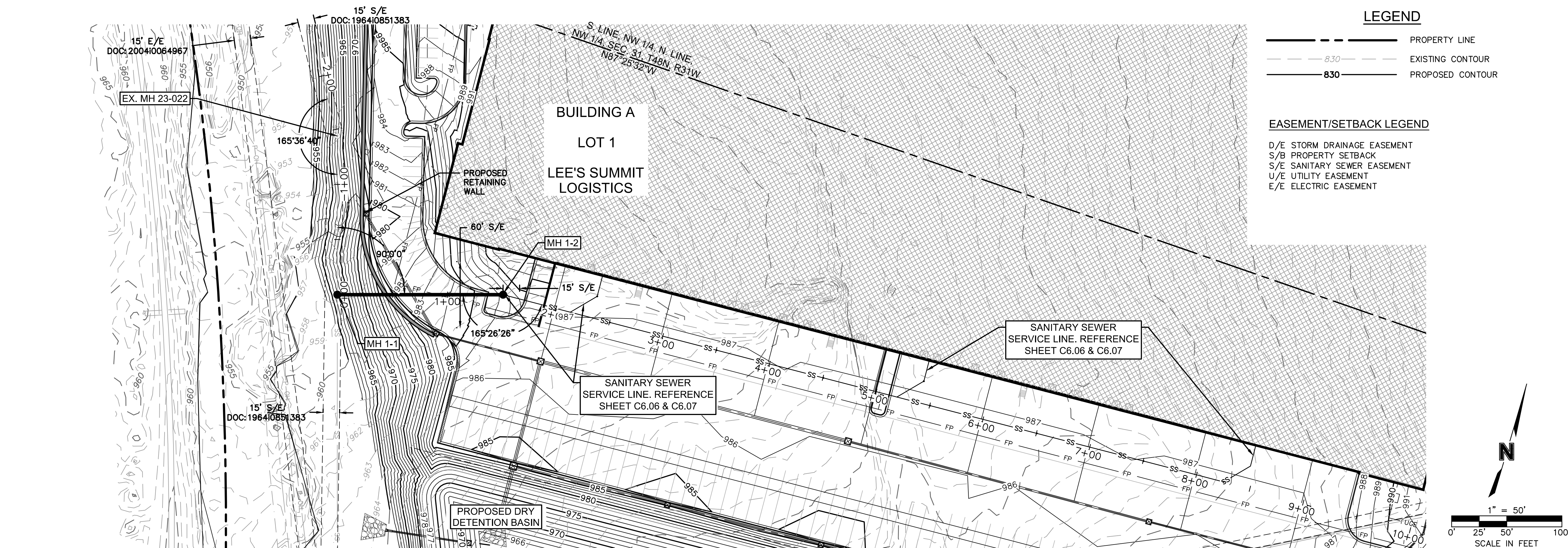
STRUCTURES	
ID	DESCRIPTION
EX. M.H. 23-022 0+00	4' ID STD MANHOLE EXISTING SANITARY SEWER - LINE 1 RIM= 966.27 52405.6950; 54765.5110 INV IN = 945.30 (12" VCP) INV OUT = 945.24 (12" VCP) N: 52405.695; E: 54765.511
EX. M.H. 23-023 4+02.96	4' ID STD MANHOLE EXISTING SANITARY SEWER - LINE 1 RIM= 963.10 52019.4100; 54880.2366 INV IN = 953.25 (12" VCP) INV OUT = 952.55 (12" VCP) N: 52019.410; E: 54880.237
M.H. 1-1 1+43.90	4' ID STD MANHOLE EXISTING SANITARY SEWER - LINE 1 RIM= 963.52 52267.7460; 54806.4815 INV IN = 947.89 (12" VCP) INV IN = 948.39 (10" PVC) INV OUT = 947.89 (12" VCP) N: 52267.746; E: 54806.481

EXISTING LINE 1 - PLAN & PROFILE
PHASE I/FINAL DEVELOPMENT PLAN
SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET
LEE'S SUMMIT, MISSOURI

drawn by: OLSSON
checked by: ENG
approved by: ENG
QA/QC by: ENG
project no: 021-04157
drawing no: NC_SAN_PL\PO1_02104157
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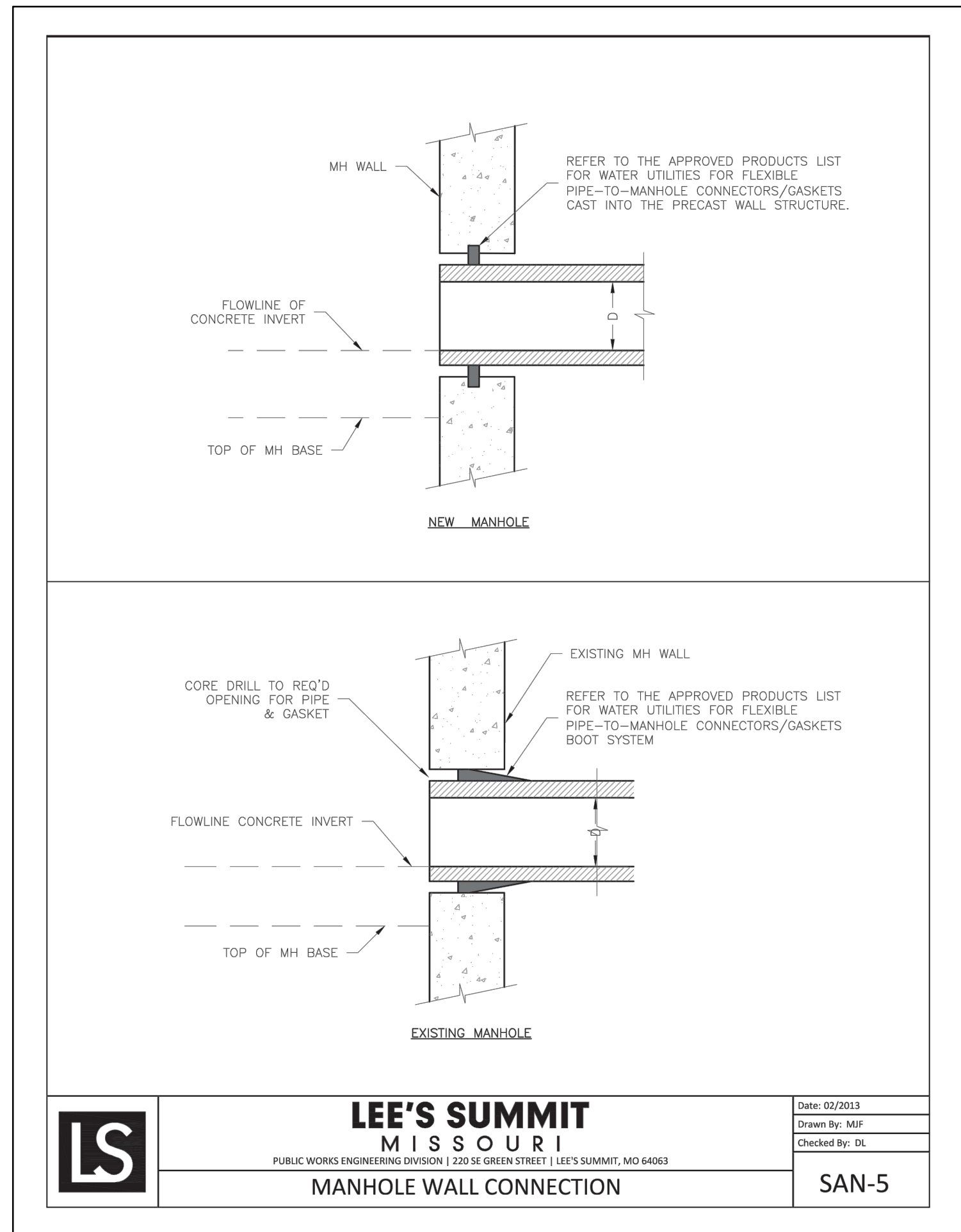
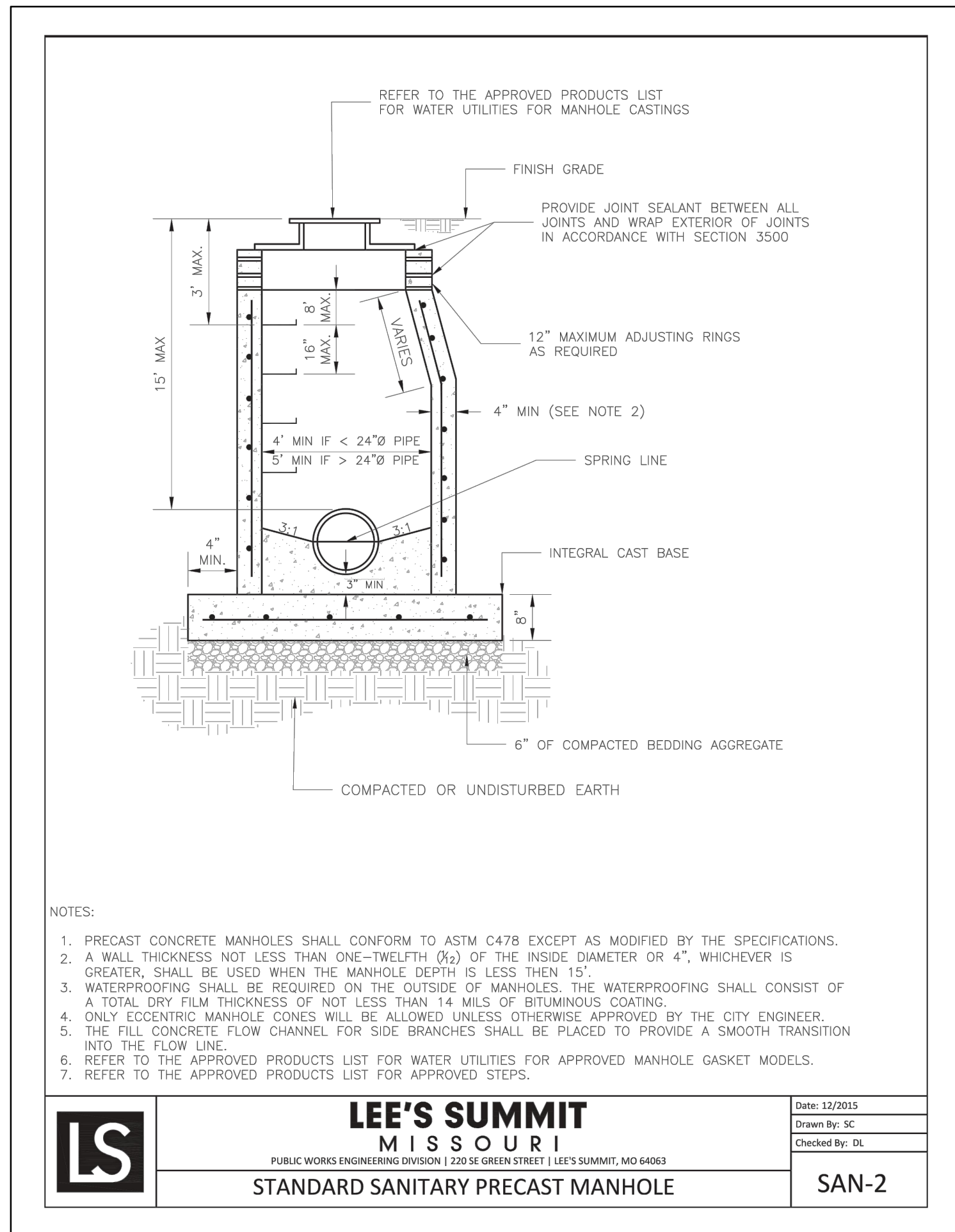
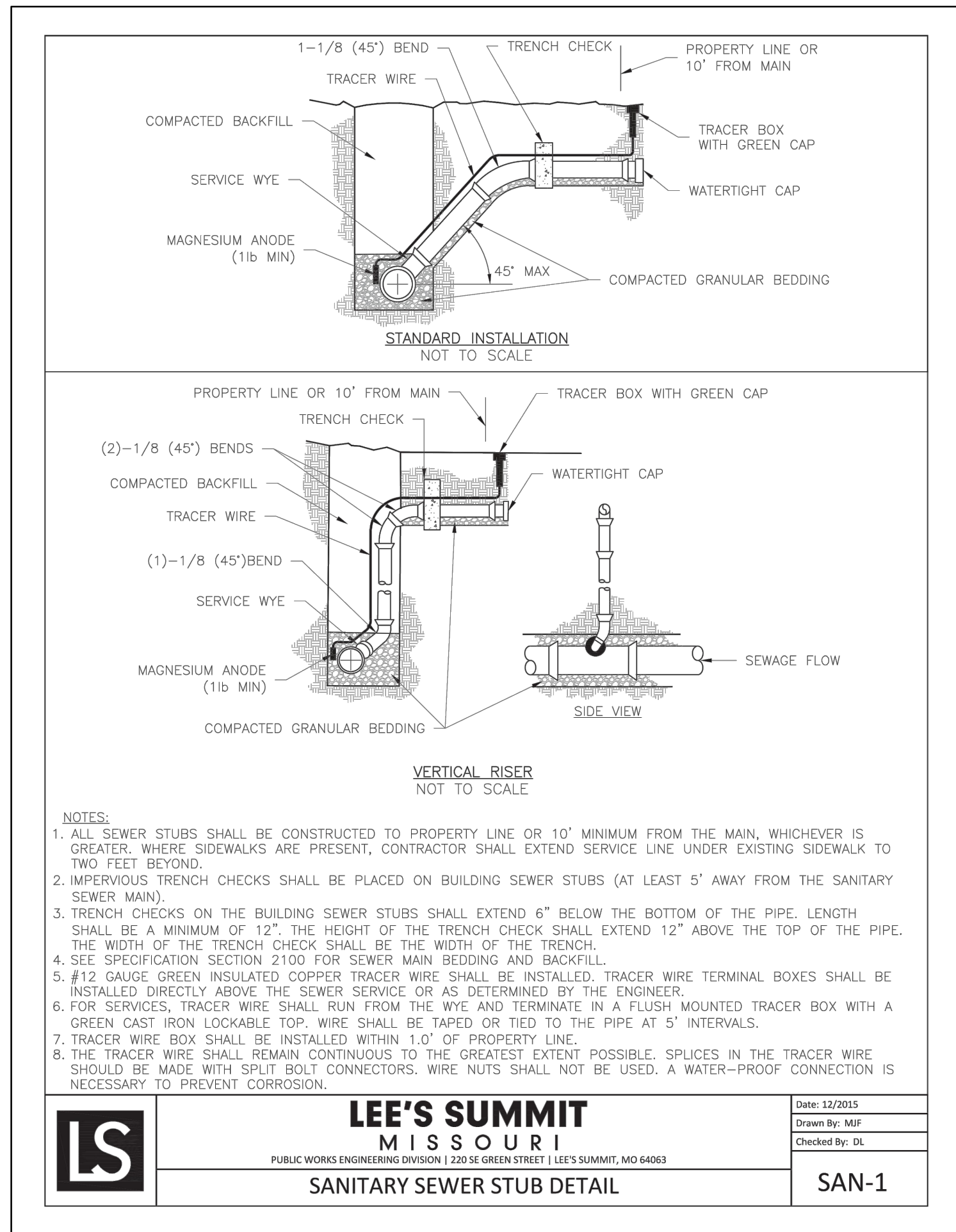
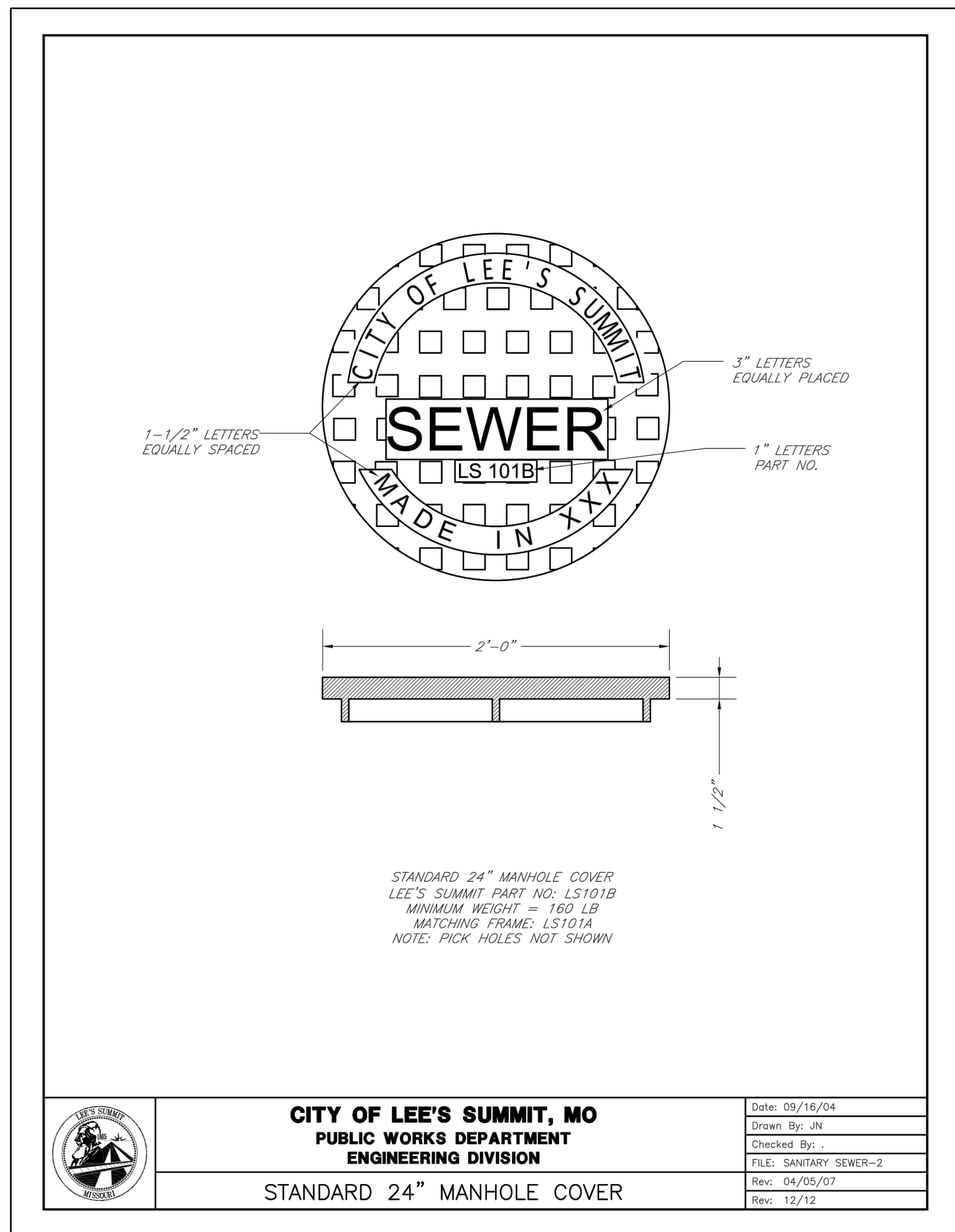
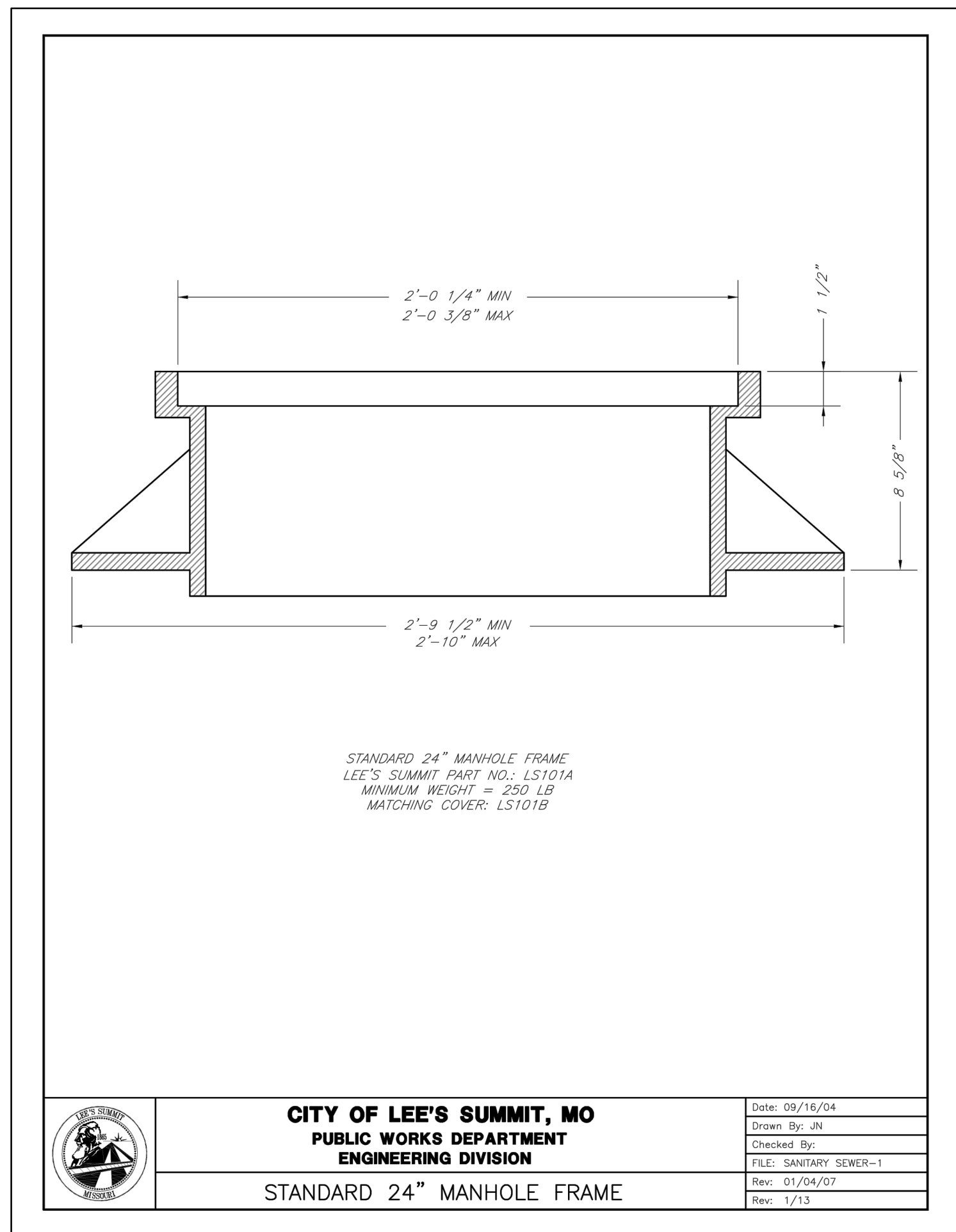
REV	NO.	DATE	REVISIONS DESCRIPTION
1	1	12/28/2021	CITY COMMENTS
2	2	02/03/2022	ADD AND CHANGE CHANGES
3	3	02/03/2022	CITY & ERECTOR COMMENTS
4	4	02/24/2022	CITY COMMENTS

BY	REVISIONS
	2021

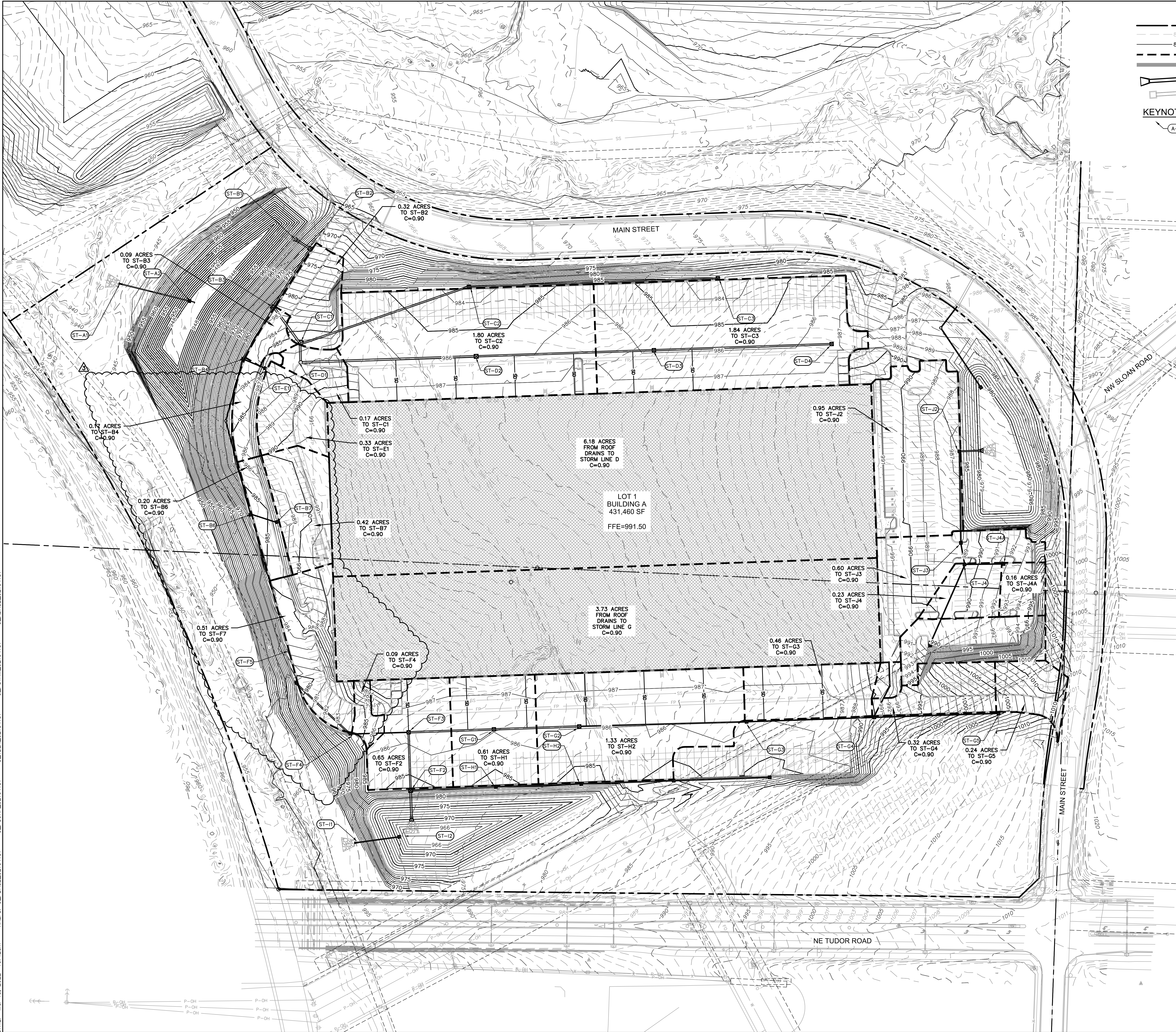


STRUCTURES	
ID	DESCRIPTION
EX. M.H. 23-022 0+00	4' ID STD MANHOLE EXISTING SANITARY SEWER - LINE 1 RIM= 966.27 52405.6950; 54765.5110 INV IN = 945.30 (12" VCP) INV OUT = 945.24 (12" VCP) N: 52405.695; E: 54765.511
M.H. 1-1 1+43.90	4' ID STD MANHOLE EXISTING SANITARY SEWER - LINE 1 RIM= 963.52 52267.7460; 54806.4815 INV IN = 947.89 (12" VCP) INV IN = 948.39 (10" PVC) INV OUT = 947.89 (12" VCP) N: 52267.746; E: 54806.481
M.H. 1-2 1+50.34	4' ID STD MANHOLE PROPOSED SANITARY SEWER - LINE 1 RIM= 969.19 52310.5480; 54950.5973 INV IN = 972.95 (8" PVC) INV OUT = 972.75 (10" PVC) N: 52310.548; E: 54950.597

- SANITARY SEWER NOTES:**
- ALL SANITARY SEWER SERVICE PIPE SHALL BE PVC SDR-26. SEWER SERVICE LINE W/PUSH ON JOINTS.
 - TEN FEET OF HORIZONTAL SEPARATION AND TWO FEET OF VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN WATER LINES AND THE SANITARY SEWER SERVICE LINE.
 - IN THE EVENT OF WORK IN OR ON THE UG SANITARY MAIN, ANY TREES OR PLANTINGS PLACED WITHIN THE SEWER EASEMENT MAY BE REMOVED WITHOUT REPLACEMENT OR COMPENSATION THERE-OF.
 - FOR VERTICAL RISERS AND ENCASEMENTS, SEE SANITARY SEWER CONNECTION SHEETS.
 - ROOF DRAINS SHALL NOT BE CONNECTED TO THE SANITARY SEWER.
 - REPLACE/ADD BARREL SECTIONS AS REQUIRED TO MEET THE GRADE REQUIREMENTS.
 - MANHOLE STATIONS AND PIPE LENGTHS SHOWN ON PLANS ARE TO THE CENTER OF MANHOLES. DO NOT SCALE DRAWINGS.
 - CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY PAVEMENT OR SIDEWALKS DAMAGED DURING THE CONSTRUCTION OF THE SANITARY SEWER MAIN.
- RIM ADJUSTMENT NOTES:**
- REPLACE/ADD BARREL SECTIONS AS REQUIRED TO MEET THE GRADE REQUIREMENTS.



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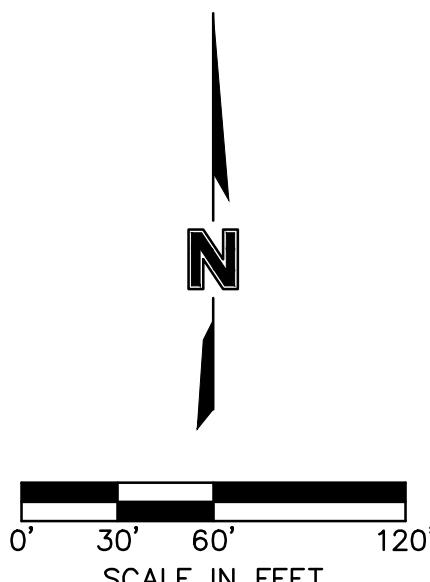


LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED DRAINAGE BOUNDARIES
- PROPOSED LANDSCAPE WALL
- STORM SEWER
- EXISTING STORM SEWER

KEYNOTE LEGEND FOR PROFILE

- A-X PROPOSED STORM STRUCTURE



BY

REV.	NO.	DATE	REVISIONS DESCRIPTION
1	1	12/24/2021	CITY COMMENTS
2	2	01/03/2022	CITY COMMENTS
3	3	02/03/2022	CITY COMMENTS
4	4	02/24/2022	CITY COMMENTS

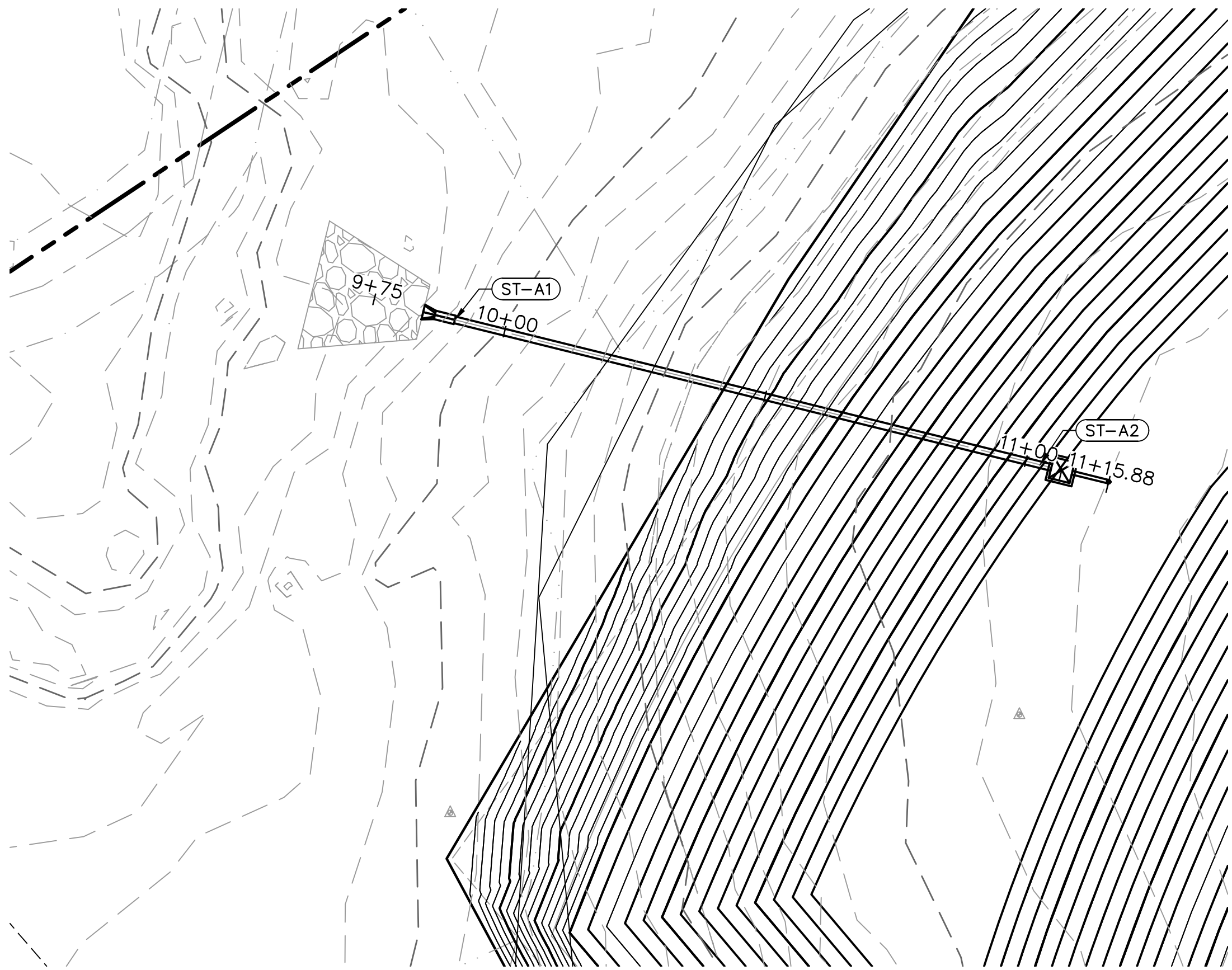
OVERALL STORM PLAN
PHASE I/FINAL DEVELOPMENT PLAN
SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET
LEE'S SUMMIT, MISSOURI

2021

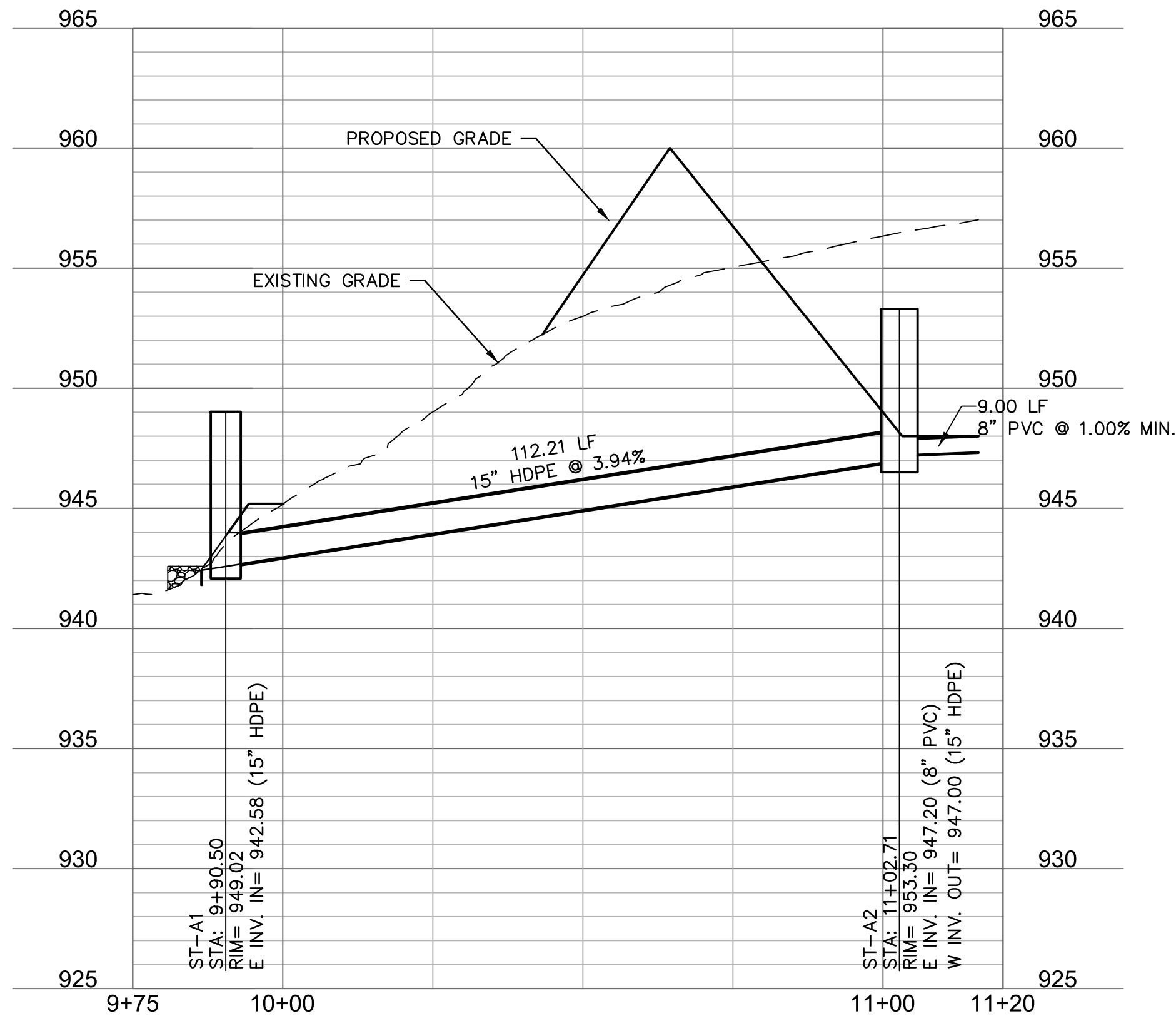
REVISIONS

drawn by: OLSSON
checked by: ENG
approved by: ENG
CADC by: ENG
project no.: 021-04157
drawing no.: 021-04157.dwg
date:

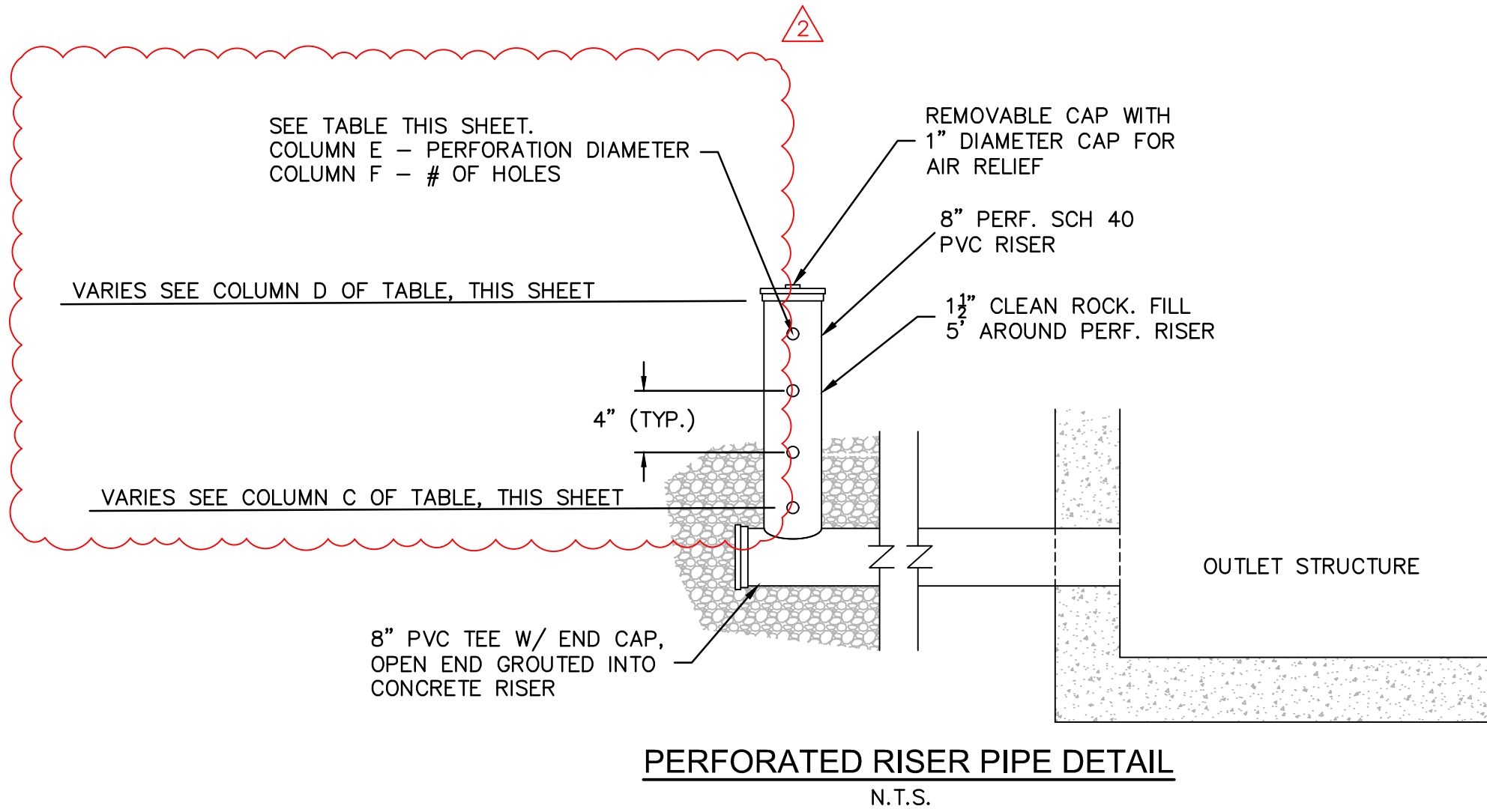
olsson
SCANNELL PROPERTIES
7901 West 133rd Street, Suite 200
Overland Park, KS 66213-7756
TEL 913.381.1170
www.olsson.com



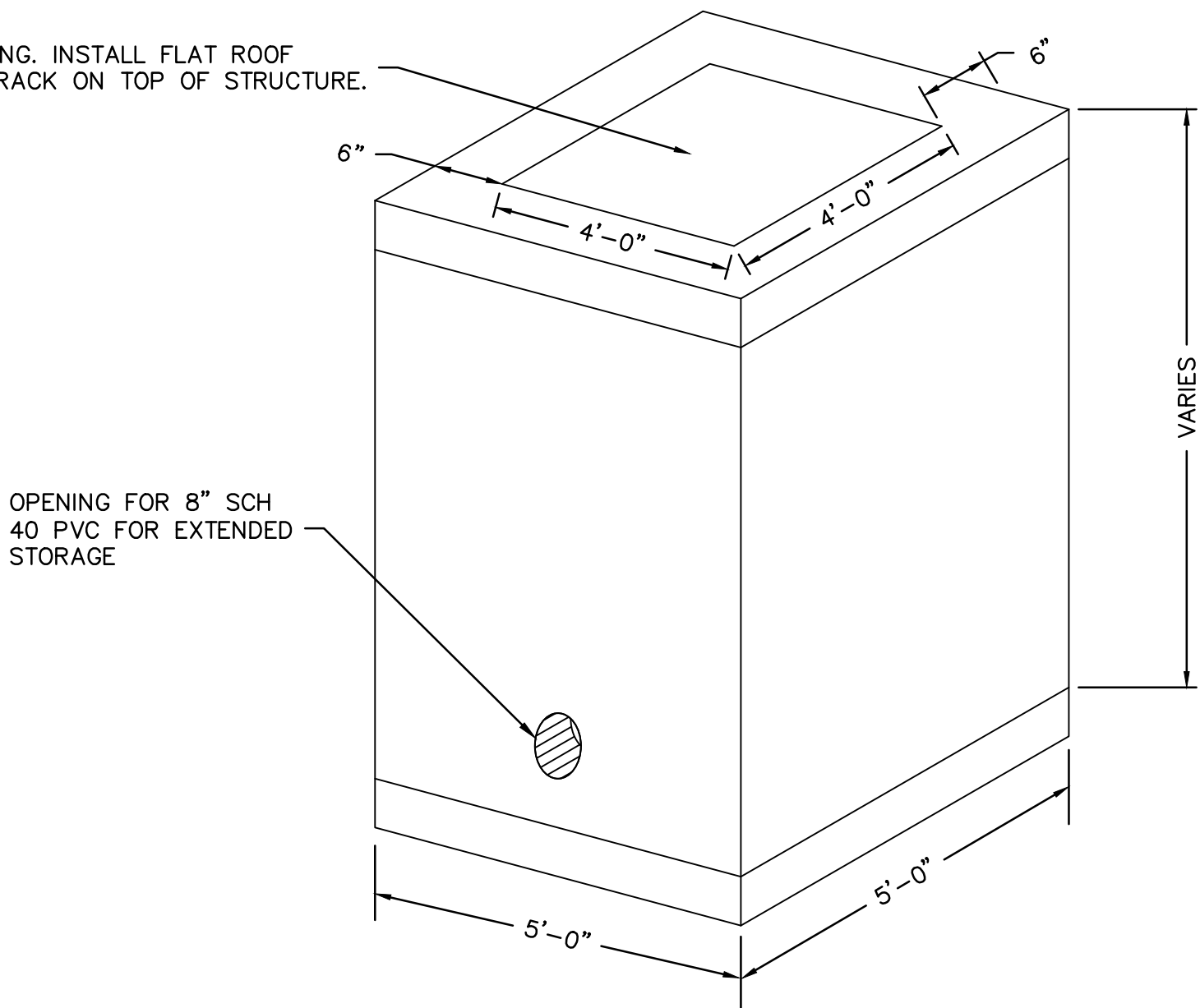
STORM LINE A (9+75 - 11+20)



STRUCTURES	
ID	DESCRIPTION
ST-A1	15" CONCRETE FLARED END SECTION WITH TOE WALL 9+90.50, 0.09' RT STORM LINE A INV IN = 942.58 (15" HDPE) N: 53017.967; E: 54517.822
ST-A2	4'X4' JUNCTION BOX REFERENCE DETAIL ON SHEET. 11+02.71, 0.02' RT STORM LINE A RIM= 953.30 INV IN = 947.20 (8" PVC) INV OUT = 947.00 (15" HDPE) N: 52990.996; E: 54626.742

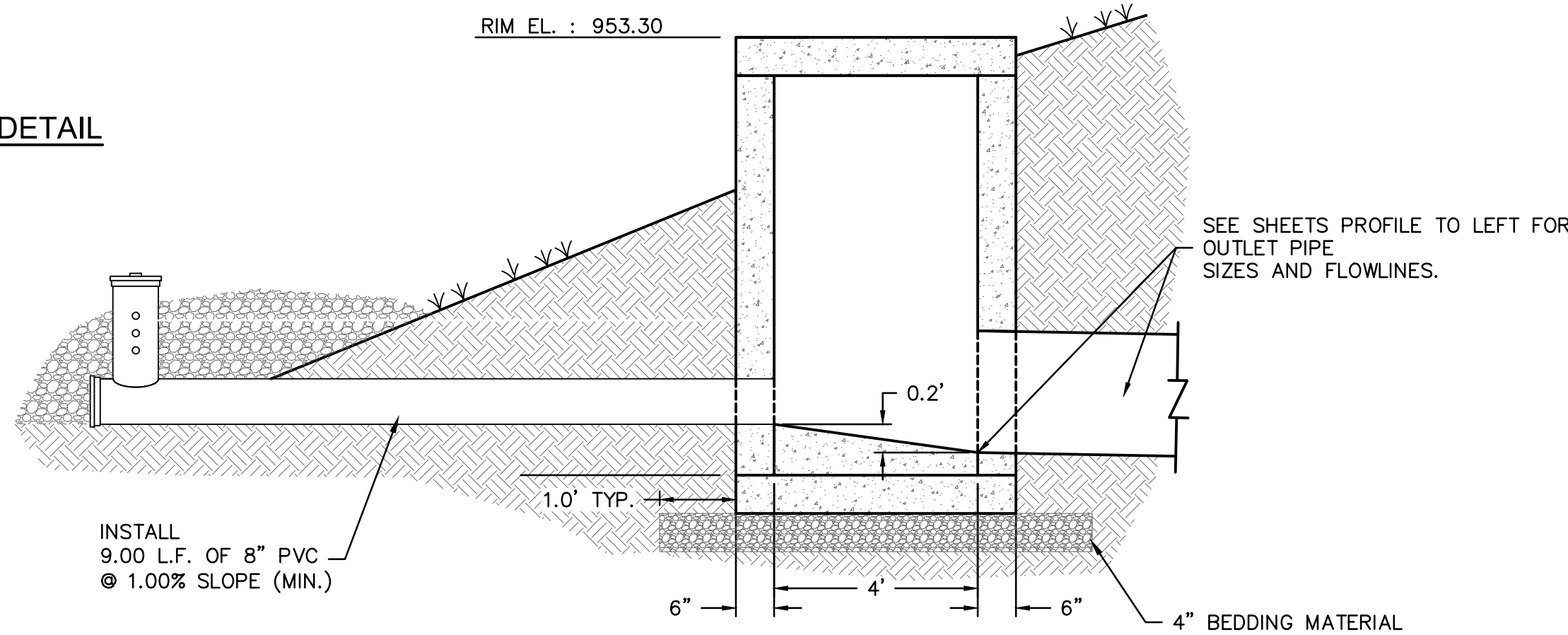


PERFORATED RISER PIPE DETAIL
N.T.S.



OUTLET STRUCTURE DETAIL
N.T.S.

- NOTES:
1. BOTTOM TO BE POURED IN PLACE.
 2. PIPE TO BE ON GRADE BEFORE BOTTOM IS CONSTRUCTED.
 3. RAM-NEK ALL JOINTS (OR EQUAL).
 4. #4 BARS @ 10" C.C. VERT. & HOR. IN WALLS & BOTTOM.
 5. REINFORCING BARS SHALL BE CUT OR BENT AT PIPE OPENINGS.
 6. ALL PIPES SHALL FIT FLUSH WITH INSIDE FACE OF BOX.
 7. BOTTOM OF BOX TO BE FILLED WITH CONCRETE TO 6" ABOVE INVERT OF PIPE FORMING CHANNELS TOWARD OUTLET PIPE FROM ALL INLET PIPES.
 8. ALL CONCRETE SHALL HAVE 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
 9. ALL REINFORCING BARS TO BE DEFORMED BARS AND MEET REQUIREMENTS OF 1966 ASTM STANDARDS NO. A-615-68 MIN. GRADE 40.
 10. MUST MAINTAIN 6" CLEARANCE BETWEEN THE PIPE AND WALLS FOR PRECAST BOXES.



SECTION THROUGH OUTLET STRUCTURE
N.T.S.

OUTLET STRUCTURE AND PERFORATED RISER INFORMATION					
A	B	C	D	E	F
DETENTION FACILITY	STRUCTURE ID	BOTTOM PERFORATION ELEVATION	TOP ELEVATION OF PERFORATED PIPE	PERFORATION DIAMETER	# OF PERFORATION HOLES
B4	ST-A2	947.00	950.33	1-1/8" (1.1")	10

LEGEND

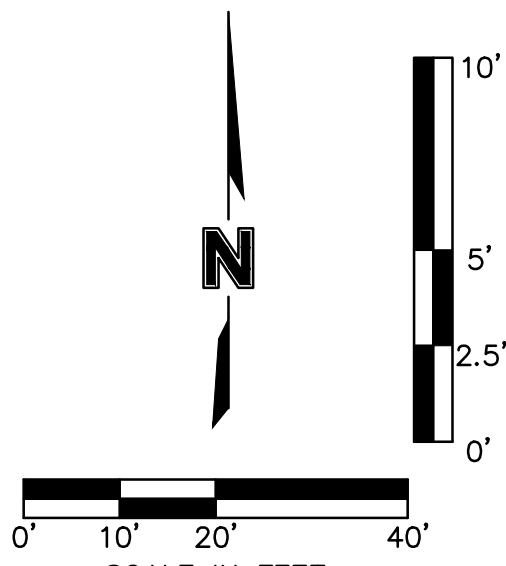
- PROPERTY LINE
- LOT LINES
- RIGHT-OF-WAY LINE
- SS SS SANITARY SEWER SERVICE
- E E FUTURE ELECTRICAL LINE
- W W FUTURE DOMESTIC WATER SERVICE
- GAS FUTURE GAS SERVICE
- COMM FUTURE TELEPHONE SERVICE
- EXISTING GRADE CONTOUR
- FINISHED GRADE CONTOUR
- STORM SEWER
- 10-YEAR HGL
- 100-YEAR HGL

KEYNOTE LEGEND

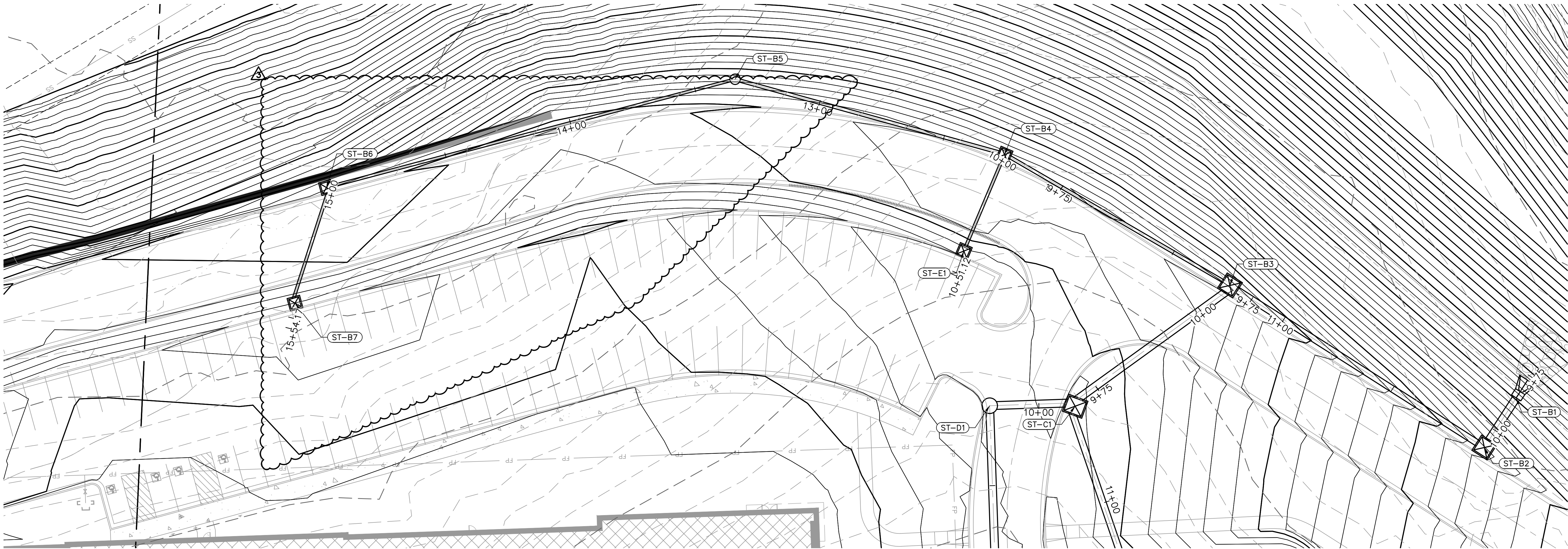
- PROPOSED STORM STRUCTURE
- CONTRACTOR SHALL PROVIDE 95% COMPACTED FILL TO AN ELEVATION OF 2'-0" (MIN.) OVER THE TOP OF PROPOSED PIPE ELEVATION AND TEMPORARY FILL

STORM STRUCTURE NOTES

1. CONTRACTOR TO PROVIDE STRUCTURAL DETAILS AND CALCULATIONS SEALED BY A LICENSED ENGINEER FOR STRUCTURES GREATER THAN 15' IN DEPTH.
2. NORTHING & EASTINGS SHOWN REPRESENT CENTER OF INLET STRUCTURES AND ENDS OF FLARED END SECTIONS.
3. SEE DETAILS IN THESE PLANS FOR INFORMATION ON STORM STRUCTURES.
4. ALL STORM SEWER PIPE TO BE HDPE, RCP CLASS III, OR PRE-APPROVED EQUIVALENT.
5. ALL AREA INLETS SHOULD BE CONSTRUCTED WITH 6" THROAT.



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LEGEND

	PROPERTY LINE
	LOT LINES
	RIGHT-OF-WAY LINE
	SANITARY SEWER SERVICE
	FUTURE ELECTRICAL LINE
	FUTURE DOMESTIC WATER SERVICE
	FUTURE GAS SERVICE
	FUTURE TELEPHONE SERVICE
	EXISTING GRADE CONTOUR
	FINISHED GRADE CONTOUR
	STORM SEWER
	10-YEAR HGL
	100-YEAR HGL

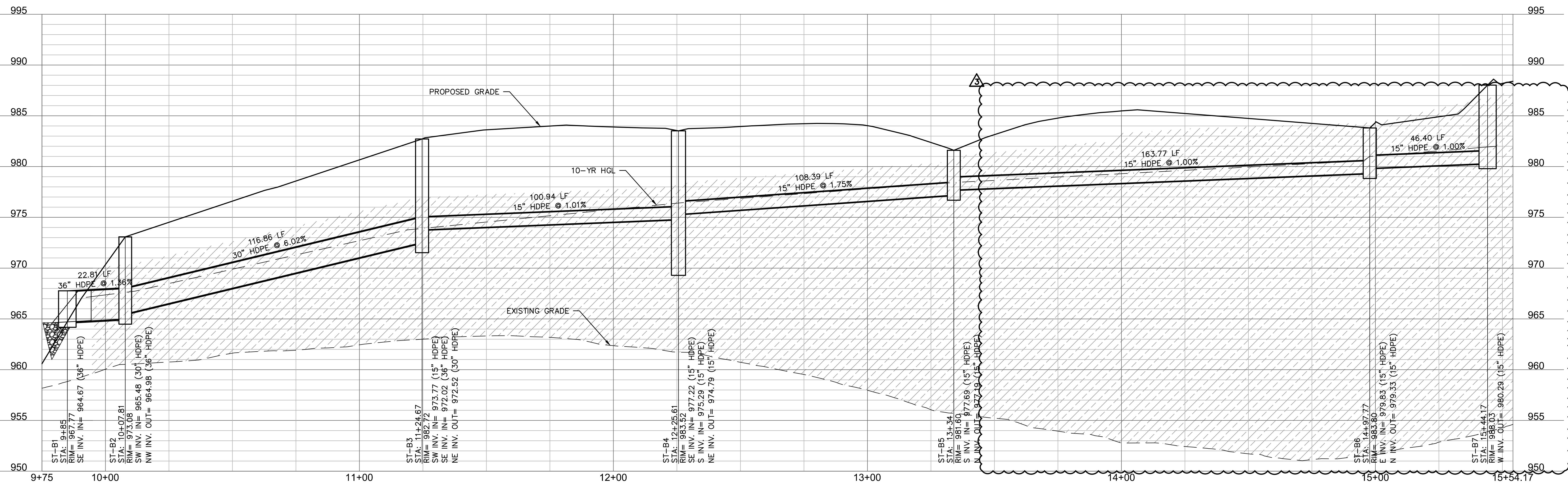
KEYNOTE LEGEND

	PROPOSED STORM STRUCTURE
	CONTRACTOR SHALL PROVIDE 95% COMPACTED FILL TO AN ELEVATION OF 2'-0" (MIN.) OVER THE TOP OF PROPOSED PIPE ELEVATION AND TEMPORARY FILL

STORM STRUCTURE NOTES

- CONTRACTOR TO PROVIDE STRUCTURAL DETAILS AND CALCULATIONS SEALED BY A LICENSED ENGINEER FOR STRUCTURES GREATER THAN 15" IN DEPTH.
- NORTHING & EASTINGS SHOWN REPRESENT CENTER OF INLET STRUCTURES AND ENDS OF FLARED END SECTIONS.
- SEE DETAILS IN THESE PLANS FOR INFORMATION ON STORM STRUCTURES.
- ALL STORM SEWER PIPE TO BE HDPE, RCP CLASS III, OR PRE-APPROVED EQUIVALENT.
- ALL AREA INLETS SHOULD BE CONSTRUCTED WITH 6" THROAT.

STORM LINE B (9+75 - 15+54.17)

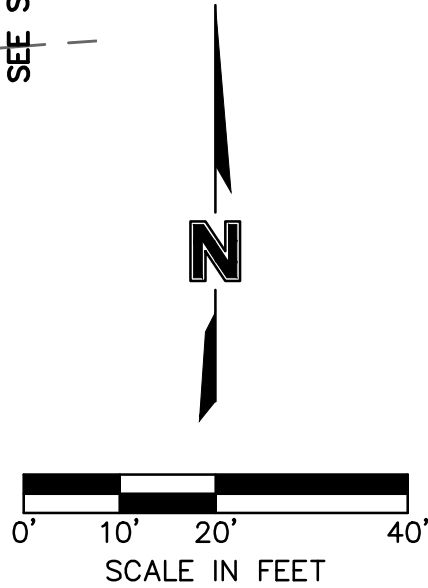
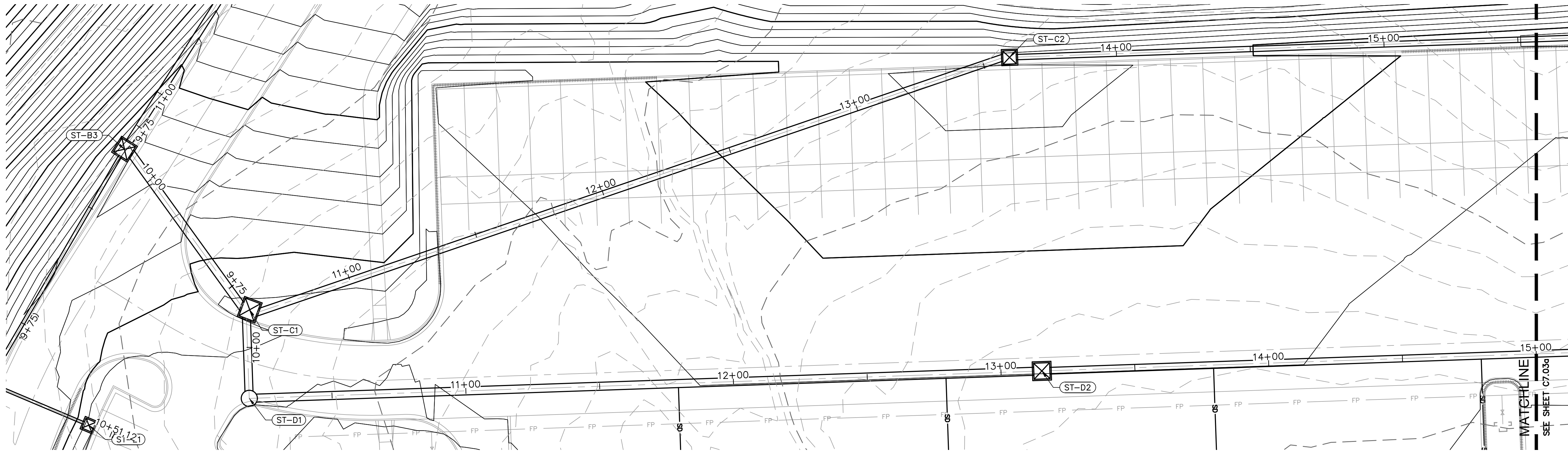


STRUCTURES	
ID	DESCRIPTION
ST-B1	36" CONCRETE FLARED END SECTION WITH TOE WALL 9+85, 0.00' RT STORM LINE B INV IN = 964.67 (36" HDPE) N: 53090.305; E: 54815.387
ST-B2	6'x6' NONSETBACK CURB INLET 10+07.81, 0.00' STORM LINE B INV IN = 965.48 (30" HDPE) INV OUT = 964.98 (36" HDPE) N: 53077.980; E: 54834.581
ST-B3	6'x6' NONSETBACK CURB INLET 11+24.67, 0.00' STORM LINE B RIM = 982.72 INV IN = 973.77 (15" HDPE) INV IN = 972.02 (36" HDPE) INV OUT = 972.52 (30" HDPE) N: 52979.400; E: 54771.831
ST-B4	4'x4' NONSETBACK CURB INLET INSERT 30' SNOUT WITH 60" SUMP DEPTH 12+25.61, 0.00' STORM LINE B RIM = 983.52 INV IN = 977.22 (15" HDPE) INV IN = 975.29 (15" HDPE) INV OUT = 974.79 (15" HDPE) N: 52892.074; E: 54721.209
ST-B5	6' I.D. MANHOLE 13+34, 0.00' STORM LINE B RIM = 981.60 INV IN = 977.69 (15" HDPE) INV OUT = 977.19 (15" HDPE) N: 52787.687; E: 54692.015
ST-B6	4'x4' NONSETBACK CURB INLET 14+97.77, 0.00' STORM LINE B RIM = 983.80 INV IN = 979.83 (15" HDPE) INV OUT = 979.33 (15" HDPE) N: 52629.372; E: 54733.929
ST-B7	4'x4' NONSETBACK CURB INLET W/ OPEN THROAT TO EAST 15+44.17, 0.00' STORM LINE B RIM = 988.03 INV IN = 980.29 (15" HDPE) N: 52617.193; E: 54778.700

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REV	NO.
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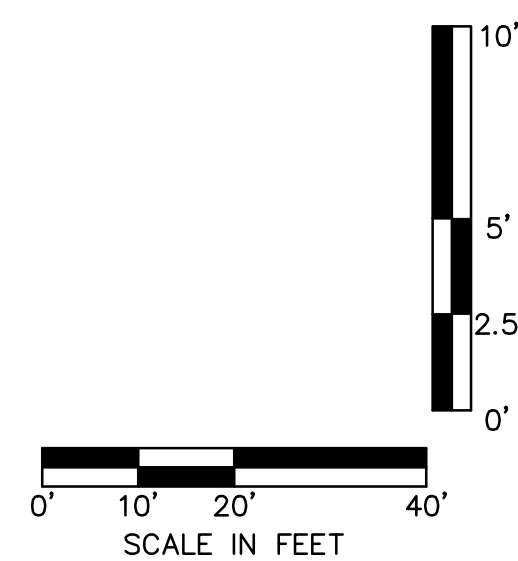
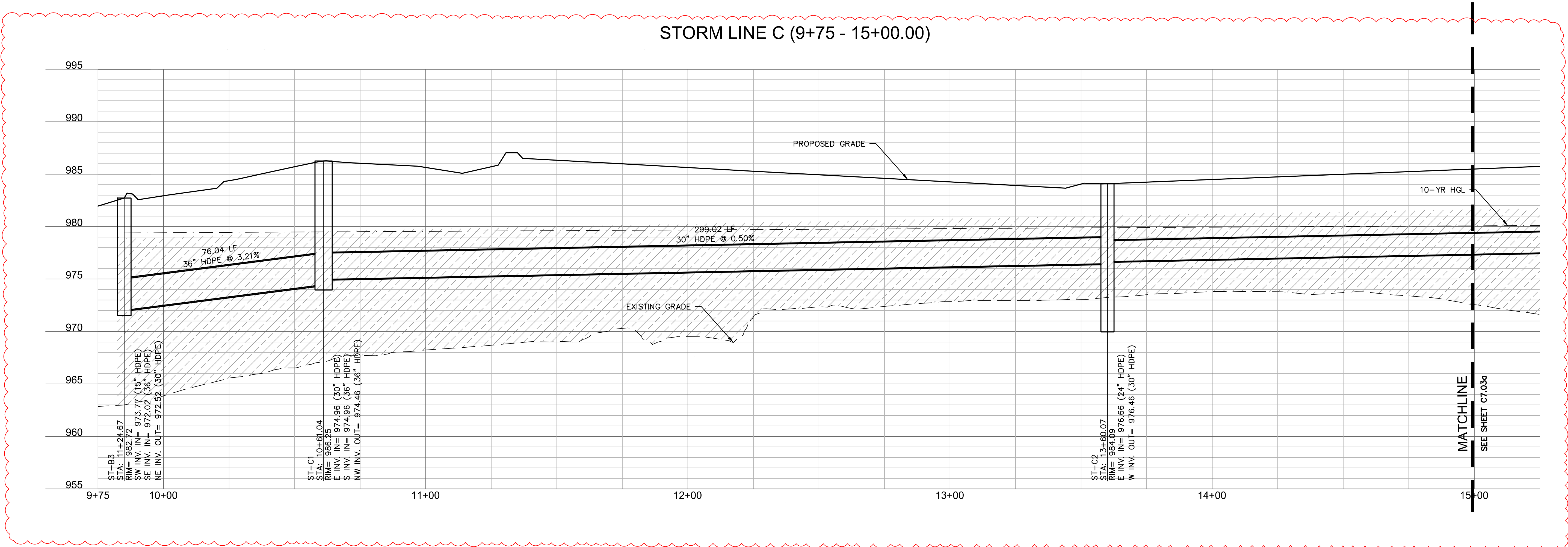
- LEGEND**
- PROPERTY LINE
 - LOT LINES
 - RIGHT-OF-WAY LINE
 - SANITARY SEWER SERVICE
 - FUTURE ELECTRICAL LINE
 - FUTURE DOMESTIC WATER SERVICE
 - GAS
 - FUTURE GAS SERVICE
 - COMM
 - FUTURE TELEPHONE SERVICE
 - EXISTING GRADE CONTOUR
 - FINISHED GRADE CONTOUR
 - STORM SEWER
 - 10-YEAR HGL
 - 100-YEAR HGL

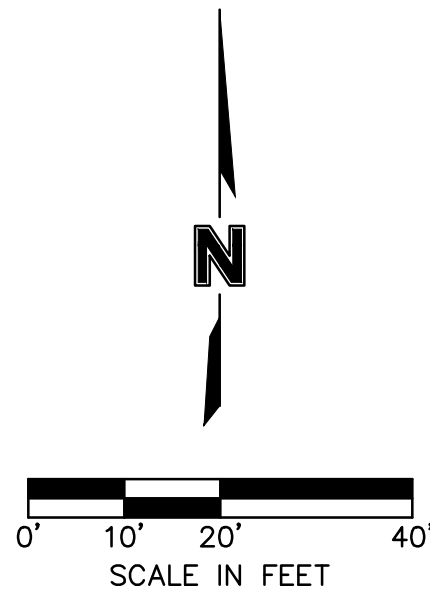
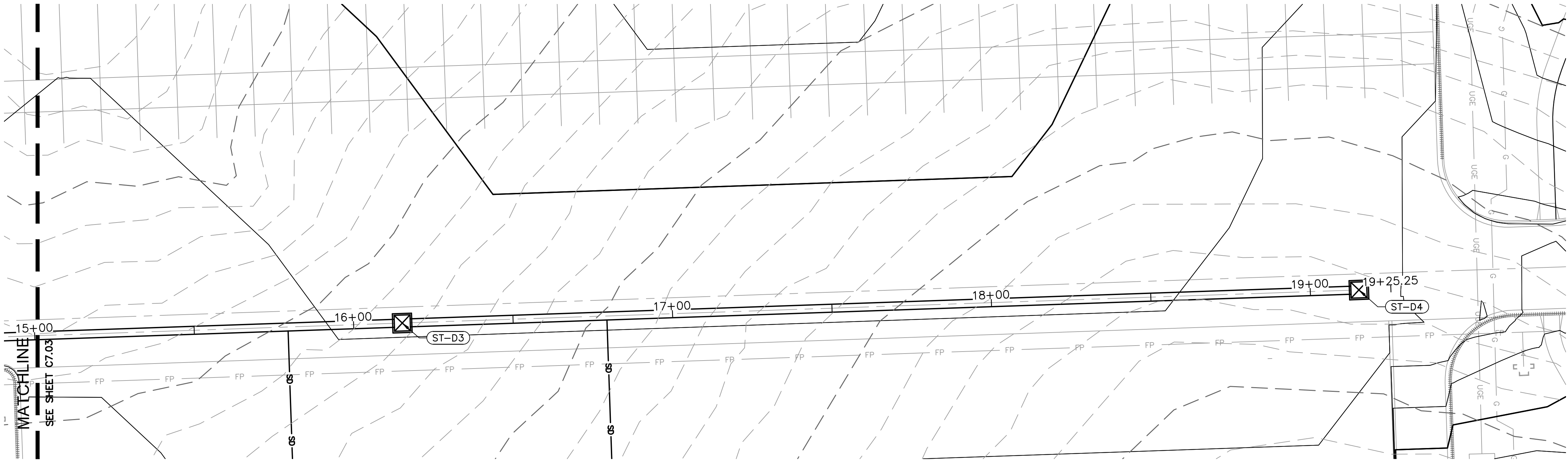
- KEYNOTE LEGEND**
- PROPOSED STORM STRUCTURE
 - CONTRACTOR SHALL PROVIDE 95% COMPACTED FILL TO AN ELEVATION OF 2'-0" (MIN.) OVER THE TOP OF PROPOSED PIPE ELEVATION AND TEMPORARY FILL

STORM STRUCTURE NOTES

- CONTRACTOR TO PROVIDE STRUCTURAL DETAILS AND CALCULATIONS SEALED BY A LICENSED ENGINEER FOR STRUCTURES GREATER THAN 15' IN DEPTH.
- NORTHING & EASTINGS SHOWN REPRESENT CENTER OF INLET STRUCTURES AND ENDS OF FLARED END SECTIONS.
- SEE DETAILS IN THESE PLANS FOR INFORMATION ON STORM STRUCTURES.
- ALL STORM SEWER PIPE TO BE HDPE, RCP CLASS III, OR PRE-APPROVED EQUIVALENT.
- ALL AREA INLETS SHOULD BE CONSTRUCTED WITH 6" THROAT.

STRUCTURES	
ID	DESCRIPTION
ST-C1	6'X7' NONSETBACK CURB INLET 10+61.04, 0.00' STORM LINE C RIM= 986.25 INV IN = 974.96 (30" HDPE) INV IN = 974.96 (36" HDPE) INV OUT = 974.46 (36" HDPE) N: 52919.441; E: 54818.600
ST-C2	5'X5' NONSETBACK CURB INLET INSERT 36FTB SNOUT WITH 75" SUMP DEPTH 13+60.07, 0.00' STORM LINE C RIM= 984.09 INV IN = 976.66 (24" HDPE) INV OUT = 976.46 (30" HDPE) N: 53013.717; E: 55102.372
ST-C3	5'X5' NONSETBACK CURB INLET 17+80.07, -0.09' LT STORM LINE C RIM= 983.89 INV OUT = 978.76 (24" HDPE) N: 53028.241; E: 55522.121



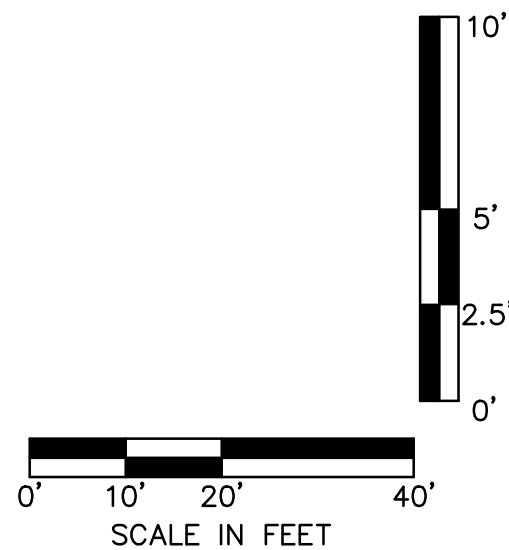
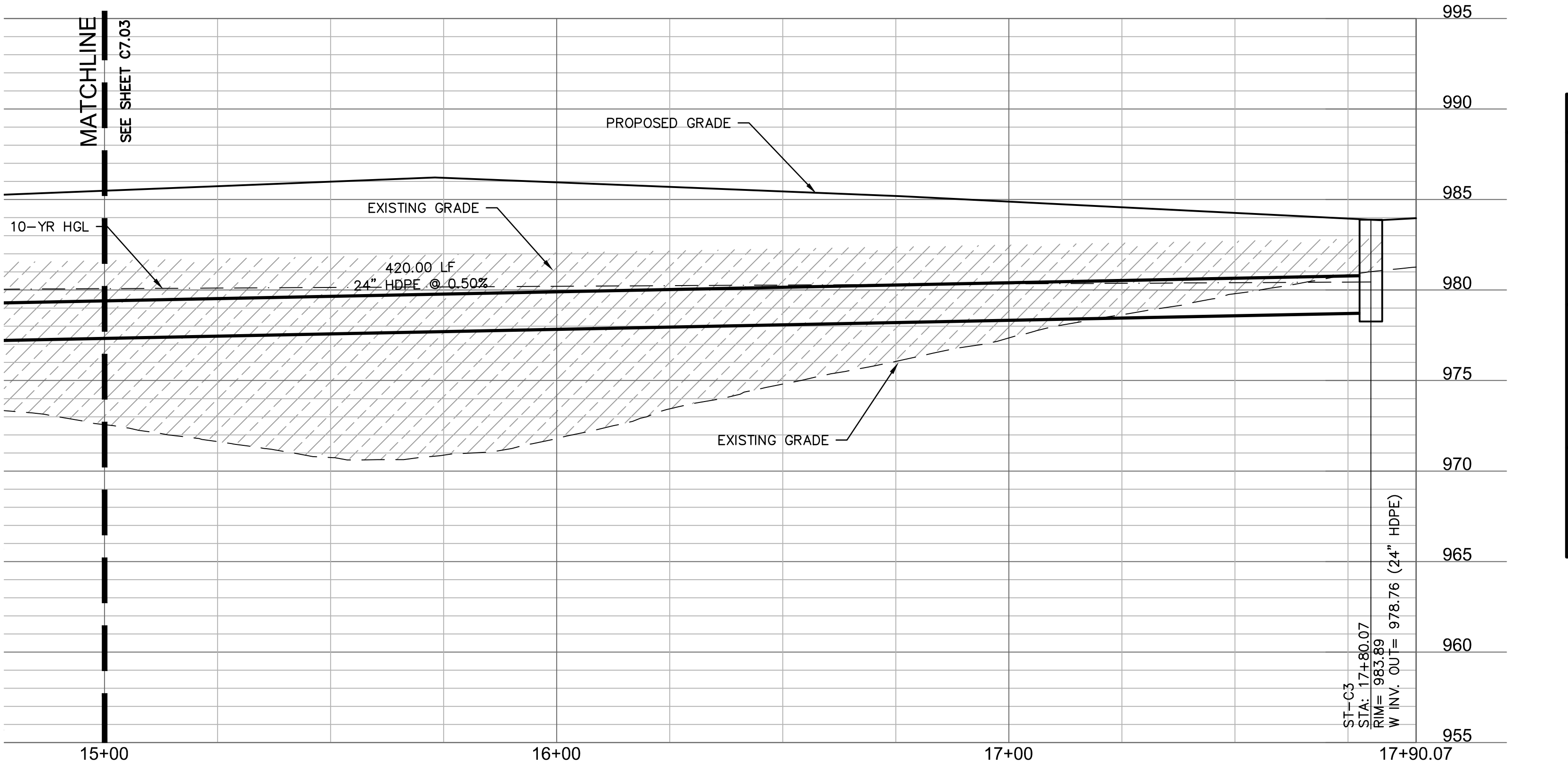


- LEGEND**
- PROPERTY LINE
 - LOT LINES
 - RIGHT-OF-WAY LINE
 - SS SANITARY SEWER SERVICE
 - E FUTURE ELECTRICAL LINE
 - W FUTURE DOMESTIC WATER SERVICE
 - GAS FUTURE GAS SERVICE
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 - 10-YEAR HGL
 - 100-YEAR HGL

- KEYNOTE LEGEND**
- PROPOSED STORM STRUCTURE
 - CONTRACTOR SHALL PROVIDE 95% COMPACTED FILL TO AN ELEVATION OF 2'-0" (MIN.) OVER THE TOP OF PROPOSED PIPE ELEVATION AND TEMPORARY FILL

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- CONTRACTOR TO PROVIDE STRUCTURAL DETAILS AND CALCULATIONS SEALED BY A LICENSED ENGINEER FOR STRUCTURES GREATER THAN 15' IN DEPTH.
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 - SEE DETAILS IN THESE PLANS FOR INFORMATION ON STORM STRUCTURES.
 - ALL STORM SEWER PIPE TO BE HDPE, RCP CLASS III, OR PRE-APPROVED EQUIVALENT.
 - ALL AREA INLETS SHOULD BE CONSTRUCTED WITH 6" THROAT.

STORM LINE C CONT. (15+00.00 - 17+90.07)



STRUCTURES	
ID	DESCRIPTION
ST-C1	6'x7' NONSETBACK CURB INLET 10+61.04, 0.00' STORM LINE C RIM= 986.25 INV IN = 974.96 (30" HDPE) INV IN = 974.96 (36" HDPE) INV OUT = 974.46 (36" HDPE) N: 52919.441; E: 54818.600
ST-C2	5'x5' NONSETBACK CURB INLET INSERT 36FTB SNOUT WITH 75" SUMP DEPTH 13+60.07, 0.00' STORM LINE C RIM= 984.09 INV IN = 976.66 (24" HDPE) INV OUT = 976.46 (30" HDPE) N: 53013.717; E: 55102.372
ST-C3	5'x5' NONSETBACK CURB INLET 17+80.07, -0.09' LT STORM LINE C RIM= 983.89 INV OUT = 978.76 (24" HDPE) N: 53028.241; E: 55522.121

drawn by: OLSSON
checked by: ENG
approved by: ENG
QA/QC by: ENG
project no.: 021-04157
drawing: 02104157.dwg
date:

SHEET
C7.03A

STORM PLAN AND PROFILE C CONT.
PHASE I FINAL DEVELOPMENT PLAN
SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET
LEE'S SUMMIT, MISSOURI

2021

REVISIONS

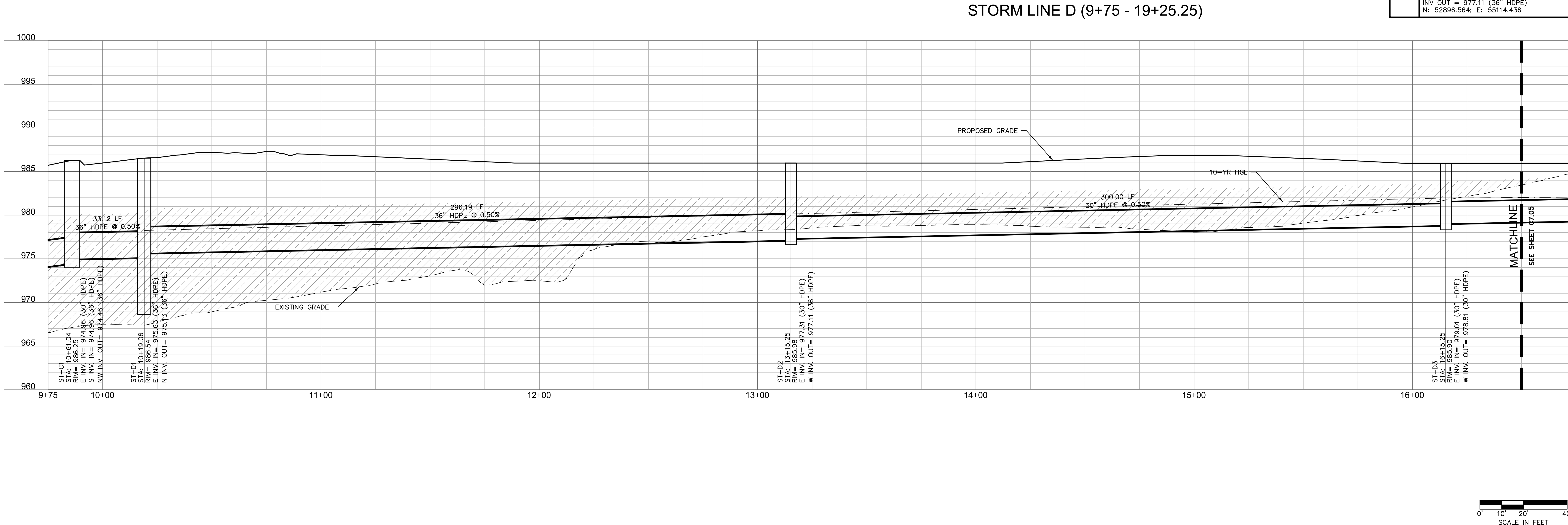
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1	1	12/28/2021	CITY COMMENTS
2	2	02/03/2022	CITY COMMENTS
3	3	02/03/2022	CITY COMMENTS
4	4	02/24/2022	CITY COMMENTS



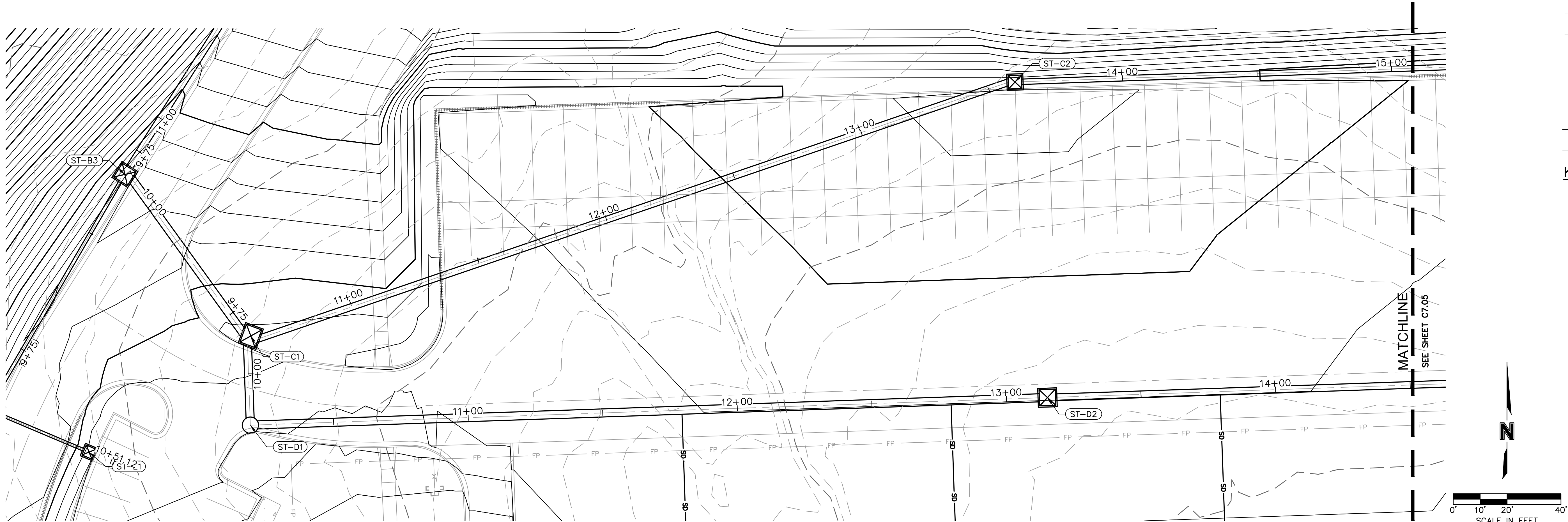
SCANNELL
PROPERTIES

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7301 West 133rd Street, Suite 200
Overland Park, KS 66213-7756
TEL 913.381.1170
www.olsson.com



STORM LINE D (9+75 - 19+25.25)



LEGEND

PROPERTY LINE
LOT LINES
RIGHT-OF-WAY LINE
SANITARY SEWER SERVICE
FUTURE ELECTRICAL LINE
FUTURE DOMESTIC WATER SERVICE
FUTURE GAS SERVICE
FUTURE TELEPHONE SERVICE
EXISTING GRADE CONTOUR
FINISHED GRADE CONTOUR
STORM SEWER
10-YEAR HGL
100-YEAR HGL

KEYNOTE LEGEND

PROPOSED STORM STRUCTURE
CONTRACTOR SHALL PROVIDE 95% COMPACTED FILL TO AN ELEVATION OF 2'-0" (MIN.) OVER THE TOP OF PROPOSED PIPE ELEVATION AND TEMPORARY FILL

STORM STRUCTURE NOTES

- CONTRACTOR TO PROVIDE STRUCTURAL DETAILS AND CALCULATIONS SEALED BY A LICENSED ENGINEER FOR STRUCTURES GREATER THAN 15' IN DEPTH.
- NORTHING & EASTINGS SHOWN REPRESENT CENTER OF INLET STRUCTURES AND ENDS OF FLARED END SECTIONS.
- SEE DETAILS IN THESE PLANS FOR INFORMATION ON STORM STRUCTURES.
- ALL STORM SEWER PIPE TO BE HDPE, RCP CLASS III, OR PRE-APPROVED EQUIVALENT.
- ALL AREA INLETS SHOULD BE CONSTRUCTED WITH 6" THROAT.

STRUCTURES	
ID	DESCRIPTION
ST-C1	6"x7" NONSETBACK CURB INLET 10+61.04, 0.00' STORM LINE C RIM= 986.25 INV IN = 974.96 (30" HDPE) INV IN = 974.96 (36" HDPE) INV OUT = 974.46 (36" HDPE) N: 52919.441; E: 54818.600
ST-D1	6' I.D. MANHOLE INSERT 36FTB SNOUT WITH 75" SUMP DEPTH 10+19.06, 0.00' STORM LINE D RIM= 986.54 INV IN = 975.63 (36" HDPE) INV OUT = 975.13 (36" HDPE) N: 52886.322; E: 54818.421
ST-D2	6"x6" JUNCTION BOX 13+15.25, 0.00' STORM LINE D RIM= 985.98 INV IN = 977.31 (30" HDPE) INV OUT = 977.11 (36" HDPE) N: 52896.564; E: 55114.436

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7001 West 133rd Street, Suite 200
Overland Park, KS 66204-7756
TEL 913.381.1170
www.olson.com

SCANNELL

PROPERTIES

STATE OF MISSOURI
MITCHELL ALAN
PE 280891674
03-19-22
PROFESSIONAL ENGINEER

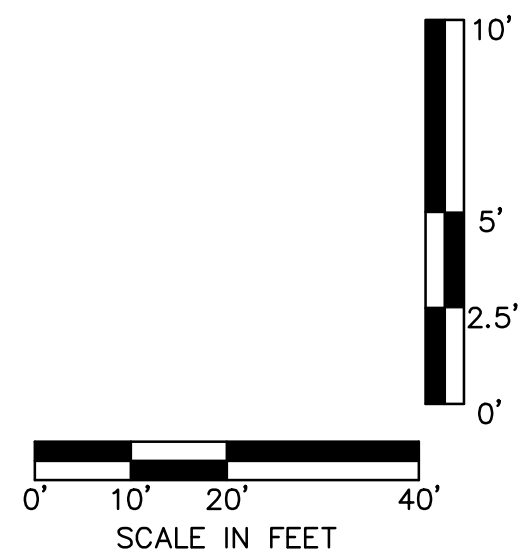
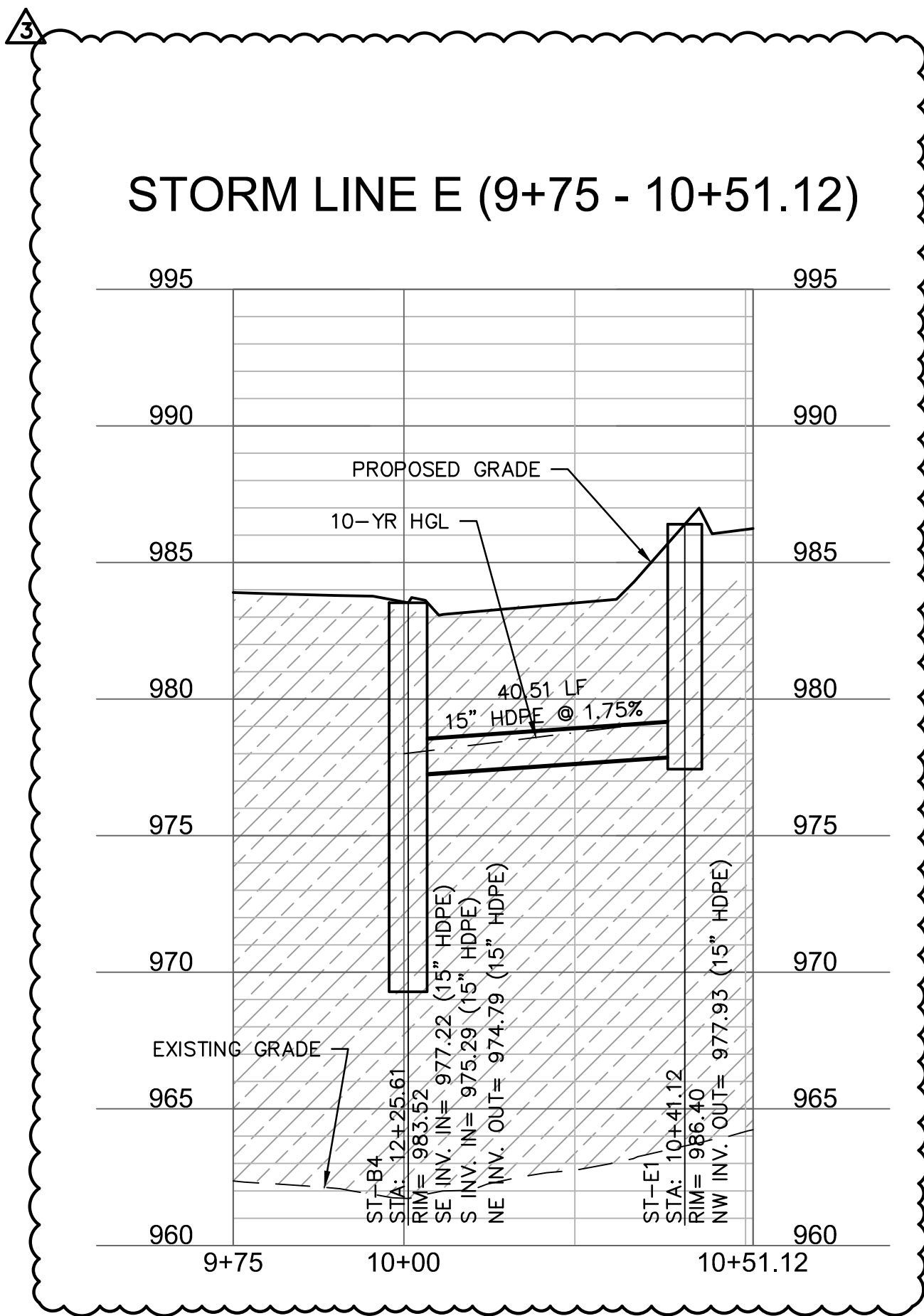
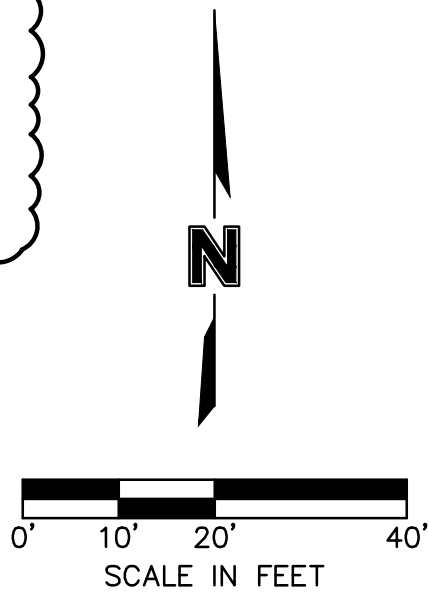
BY
REVISIONS DESCRIPTION
DATE
REV. NO.
1 12/28/2021 CITY COMMENTS
2 01/03/2022 CITY COMMENTS
3 01/03/2022 CITY COMMENTS
4 02/24/2022 CITY COMMENTS

REVISIONS
2021

STORM PLAN & PROFILE D
PHASE I FINAL DEVELOPMENT PLAN
SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET
LEE'S SUMMIT, MISSOURI

drawn by: OLSSON
checked by: ENG
approved by: ENG
QA/QC by: ENG
project no.: 021-04157
drawing no.: STM02_02104157.dwg
date:

SHEET
C7.04

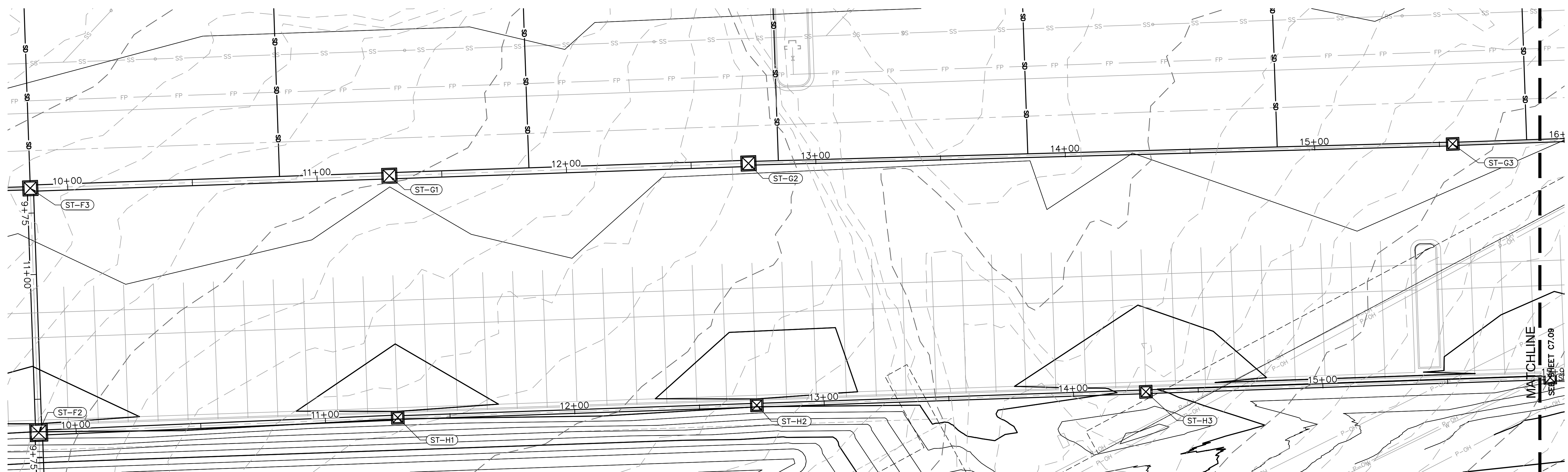


- LEGEND**
- PROPERTY LINE
 - LOT LINES
 - RIGHT-OF-WAY LINE
 - SS SANITARY SEWER SERVICE
 - E FUTURE ELECTRICAL LINE
 - W FUTURE DOMESTIC WATER SERVICE
 - GAS FUTURE GAS SERVICE
 - COMM FUTURE TELEPHONE SERVICE
 - EXISTING GRADE CONTOUR
 - FINISHED GRADE CONTOUR
 - STORM SEWER
 - 10-YEAR HGL
 - 100-YEAR HGL

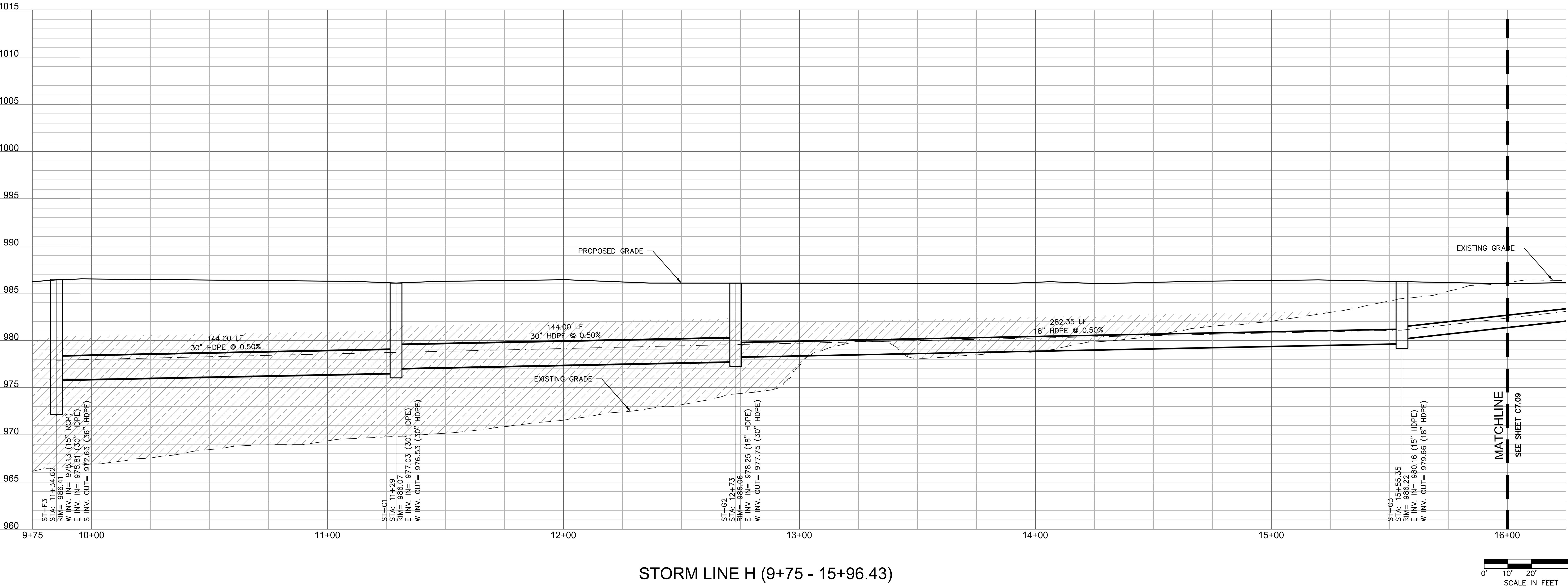
- KEYNOTE LEGEND**
- PROPOSED STORM STRUCTURE
 - CONTRACTOR SHALL PROVIDE 95% COMPACTED FILL TO AN ELEVATION OF 2'-0" (MIN.) OVER THE TOP OF PROPOSED PIPE ELEVATION AND TEMPORARY FILL

- STORM STRUCTURE NOTES**
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 - SEE DETAILS IN THESE PLANS FOR INFORMATION ON STORM STRUCTURES.
 - ALL STORM SEWER PIPE TO BE HDPE, RCP CLASS III, OR PRE-APPROVED EQUIVALENT.
 - ALL AREA INLETS SHOULD BE CONSTRUCTED WITH 6" THROAT.

STRUCTURES	
ID	DESCRIPTION
ST-E1	4'x4' CURB/GRATE INLET 10+41.12, 0.00' STORM LINE E RIM= 986.40 INV OUT = 977.93 (15" HDPE) N: 52876.308; E: 54758.524



STORM LINE G (9+75 - 19+90.23)



STRUCTURES	
ID	DESCRIPTION
ST-F3	6'6" JUNCTION BOX 11+34.62, 0.00' STORM LINE F RIM= 986.41 INV IN= 973.13 (15" RCP) INV IN= 975.81 (30" HDPE) INV OUT= 976.63 (36" HDPE) E: 52262.226; E: 55000.453
ST-G1	6'6" JUNCTION BOX 11+29, 0.00' STORM LINE G RIM= 986.07 INV IN= 977.03 (30" HDPE) INV OUT= 976.53 (30" HDPE) E: 52267.205; E: 55144.367
ST-G2	6'6" JUNCTION BOX 12+73, 0.00' STORM LINE G RIM= 986.06 INV IN= 978.25 (18" HDPE) INV OUT= 977.75 (30" HDPE) E: 52272.185; E: 55288.281
ST-G3	6'6" NONSETBACK CURB INLET 15+53.55, 0.00' STORM LINE G RIM= 986.22 INV IN= 980.16 (15" HDPE) INV OUT= 979.66 (18" HDPE) E: 52279.967; E: 55570.526

DWG: F:\2021\04001-04500\021-04157\40-design\AutoCAD\final plans\Sheets\GNCV\PHASE 1\C_STM02_02104157.dwg USER: sgillard
DATE: Mar 15, 2022 10:47am XREFS: C_PBASE_02104157 C_PBLK_02104157 C_PBLK_02104157 C_PSTRM_02104157

STORM LINE H (9+75 - 15+96.43)

LEGEND

	PROPERTY LINE
	LOT LINES
	RIGHT-OF-WAY LINE
	SANITARY SEWER SERVICE
	FUTURE ELECTRICAL LINE
	FUTURE DOMESTIC WATER SERVICE
	FUTURE GAS SERVICE
	FUTURE TELEPHONE SERVICE
	EXISTING GRADE CONTOUR
	FINISHED GRADE CONTOUR
	STORM SEWER
	10-YEAR HGL
	100-YEAR HGL

KEYNOTE LEGEND

XX

PROPOSED STORM STRUCTURE

CONTRACTOR SHALL PROVIDE 95%
COMPACTED FILL TO AN ELEVATION OF
2'-0" (MIN.) OVER THE TOP OF
PROPOSED PIPE ELEVATION AND
TEMPORARY FILL

STORM STRUCTURE NOTES

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2. NORTHING & EASTINGS SHOWN REPRESENT CENTER OF INLET STRUCTURES AND ENDS OF FLARED END SECTIONS.
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4. ALL STORM SEWER PIPE TO BE HDPE, RCP CLASS III, OR PRE-APPROVED EQUIVALENT.
5. ALL AREA INLETS SHOULD BE CONSTRUCTED WITH 6" THROAT.

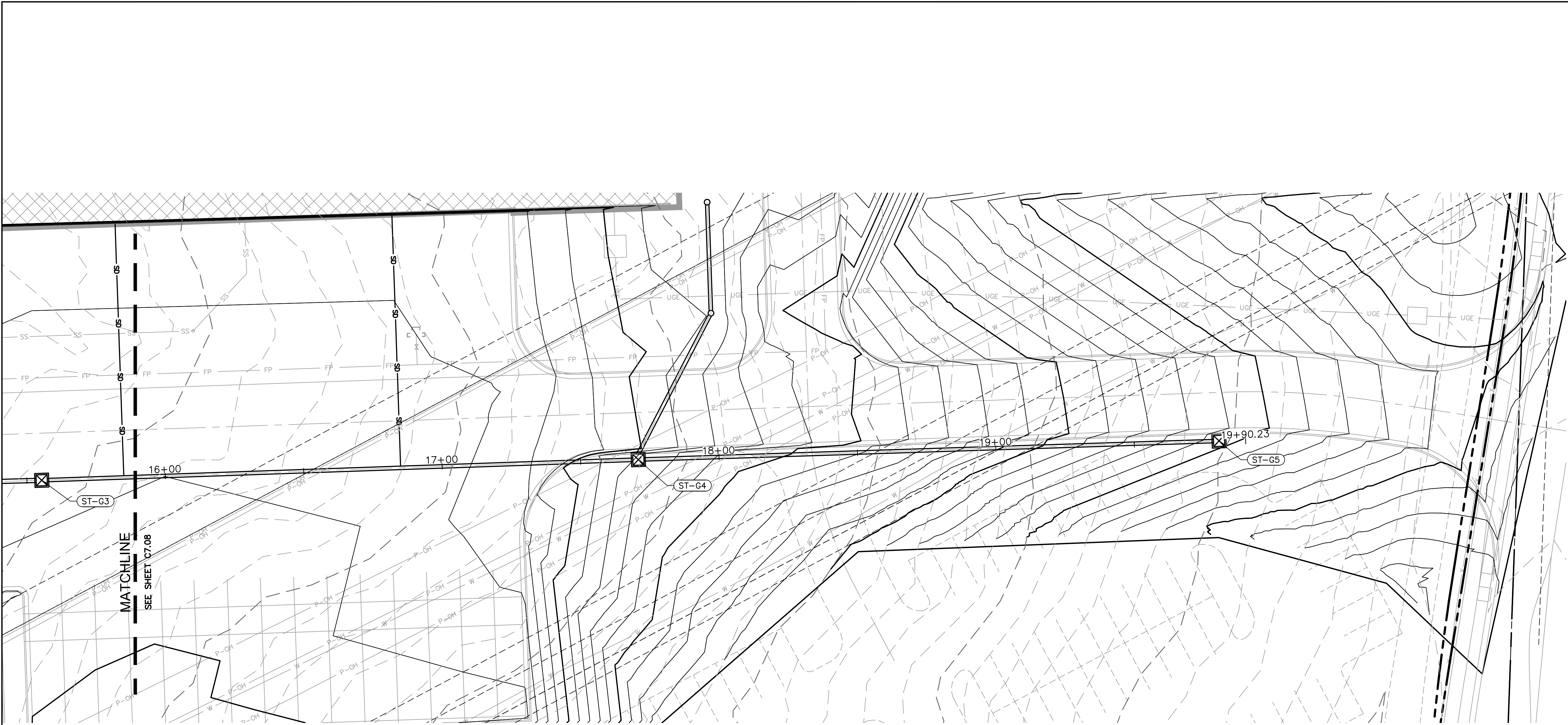
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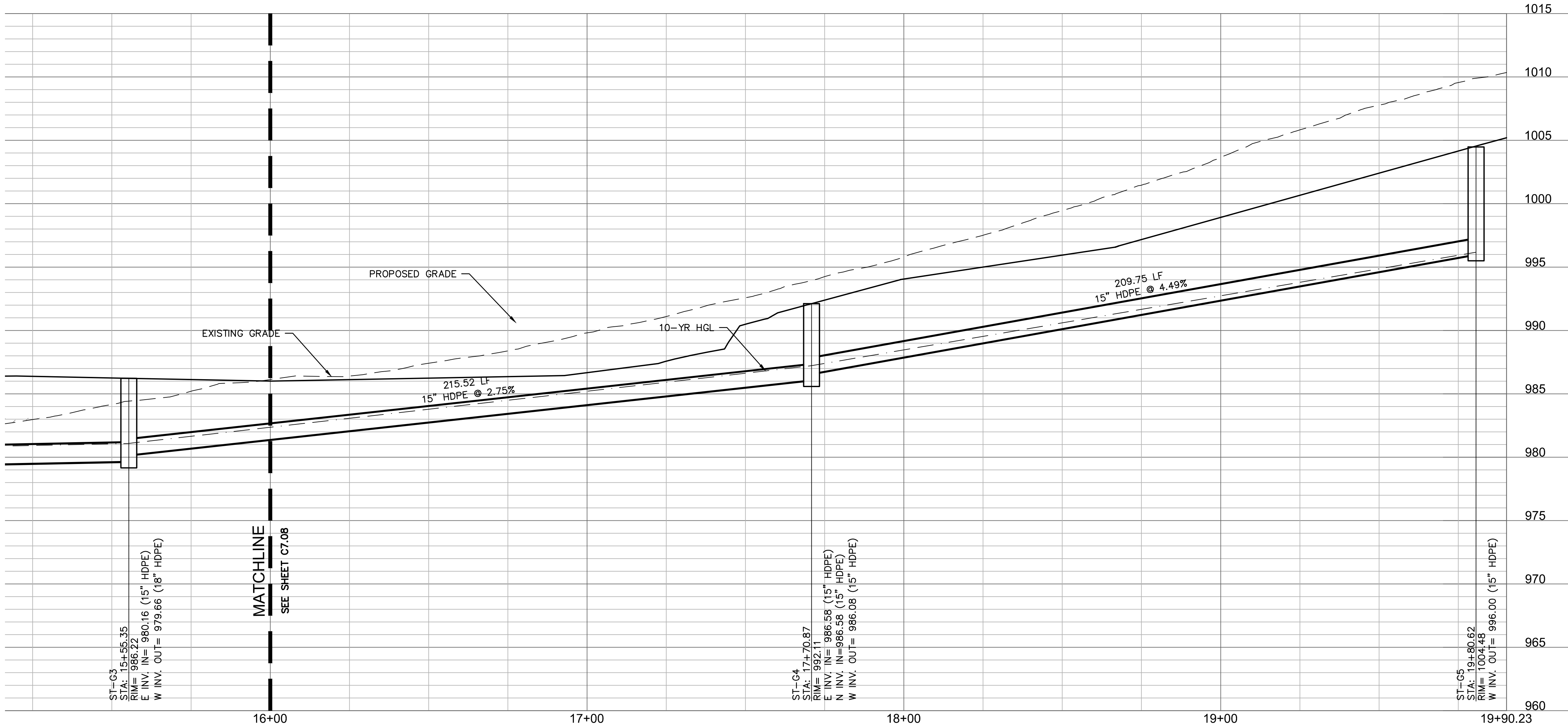
SCANNELL
PROPERTIES

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	12/4/2021	CITY COMMENTS	
2	01/07/2022	CITY COMMENTS #2 AND OWNER CHANGES	
3	10/03/2022	CITY & ENERGY COMMENTS	
4	02/24/2022	CITY COMMENTS	

STORM PLAN & PROFILE G PHASE I FINAL DEVELOPMENT PLAN		SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET		LEE'S SUMMIT, MISSOURI		7001	
drawn by	_____	checked by	_____	OLSON	_____	_____	_____
approved by	_____	_____	_____	_____	_____	_____	_____
QA/QC by	_____	_____	_____	_____	_____	_____	_____
project no.	021-041161						
drawing no.	02-STM700-021041167.dwg						
date:							

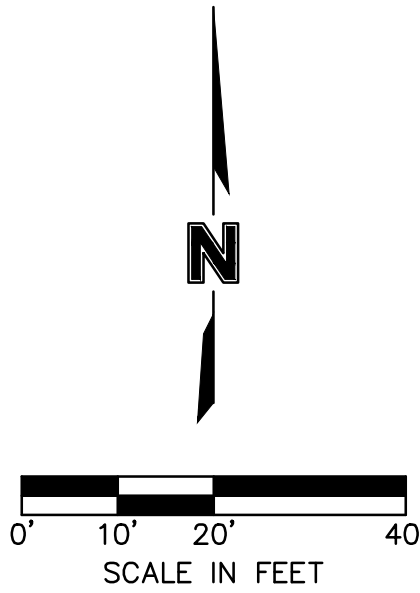


90.23)



0' 10' 20' 40'
SCALE IN FEET

0' 5' 10'
2.5'



STRUCTURES	
ID	DESCRIPTION
ST-G3	6'X6' NONSETBACK CURB INLET 15+55.35, 0.00' STORM LINE G RIM= 986.22 INV IN = 980.16 (15" HDPE) INV OUT = 979.66 (18" HDPE) N: 52279.967; E: 55570.526
ST-G4	5'X5' NONSETBACK CURB INLET 17+70.87, 0.00' STORM LINE G RIM= 992.11 INV IN = 986.58 (15" HDPE) INV OUT = 986.08 (15" HDPE) N: 52287.420; E: 55785.916
ST-G5	4'X4' NONSETBACK CURB INLET 19+80.62, -0.35' LT STORM LINE G RIM= 1004.48 INV OUT = 996.00 (15" HDPE) N: 52294.174; E: 55995.554

- LEGEND**
- PROPERTY LINE
 - LOT LINES
 - RIGHT-OF-WAY LINE
 - SANITARY SEWER SERVICE
 - FUTURE ELECTRICAL LINE
 - FUTURE DOMESTIC WATER SERVICE
 - FUTURE GAS SERVICE
 - FUTURE TELEPHONE SERVICE
 - EXISTING GRADE CONTOUR
 - FINISHED GRADE CONTOUR
 - STORM SEWER
 - 10-YEAR HGL
 - 100-YEAR HGL

- KEYNOTE LEGEND**
- PROPOSED STORM STRUCTURE
 - CONTRACTOR SHALL PROVIDE 95% COMPACTED FILL TO AN ELEVATION OF 2'-0" (MIN.) OVER THE TOP OF PROPOSED PIPE ELEVATION AND TEMPORARY FILL

STORM STRUCTURE NOTES

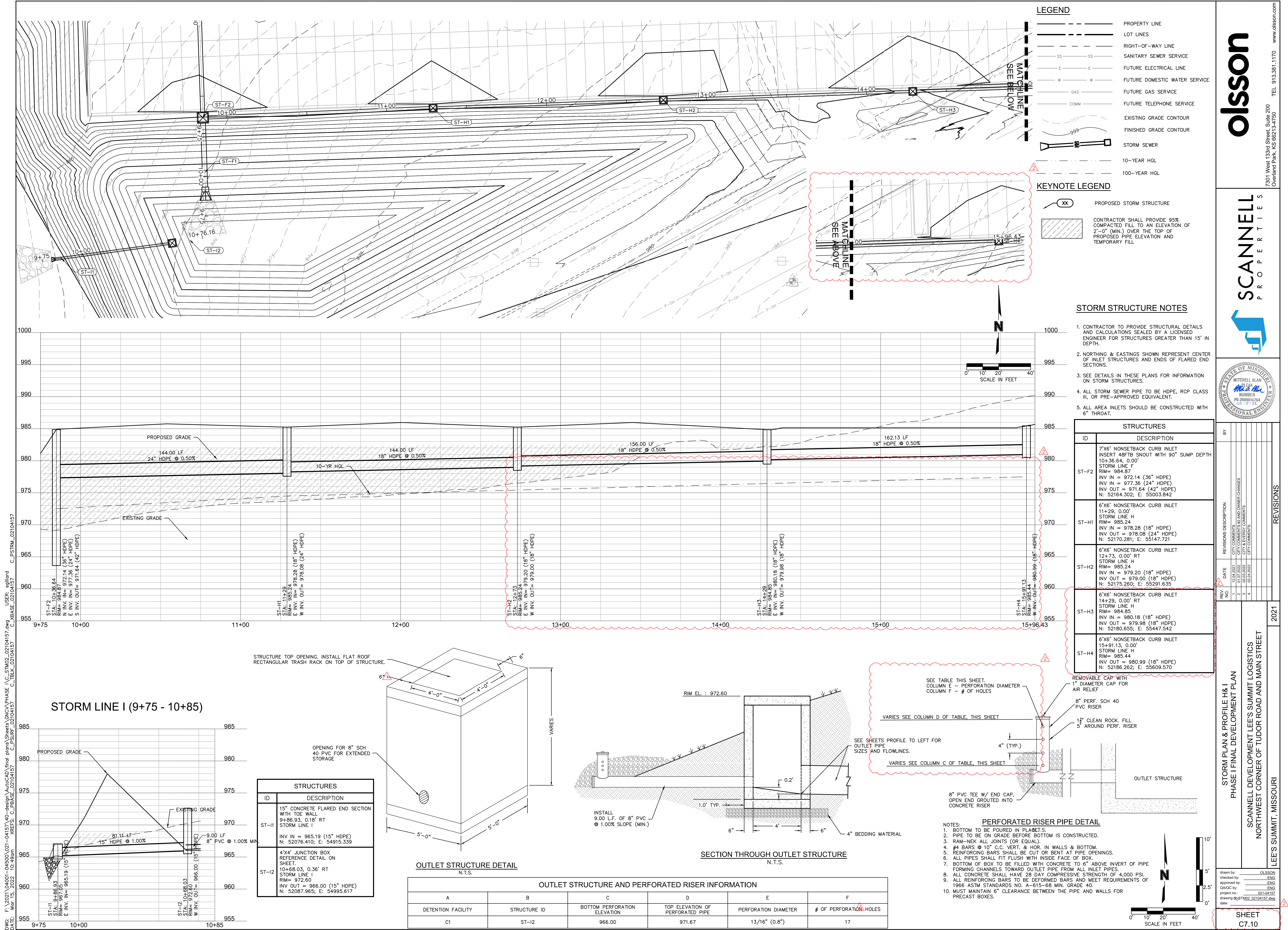
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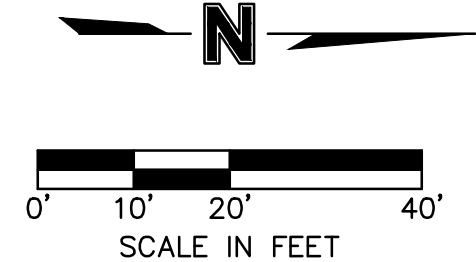
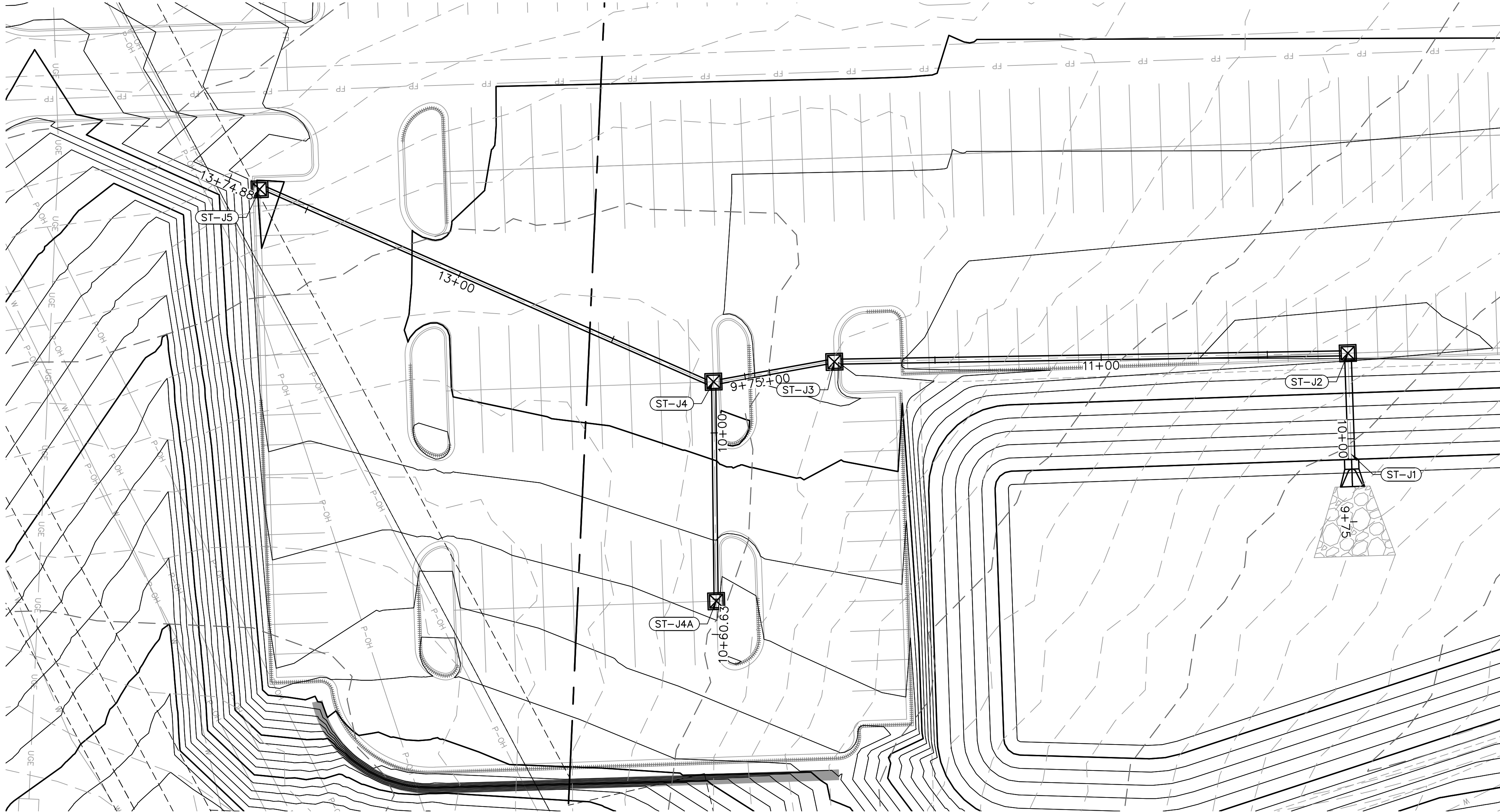
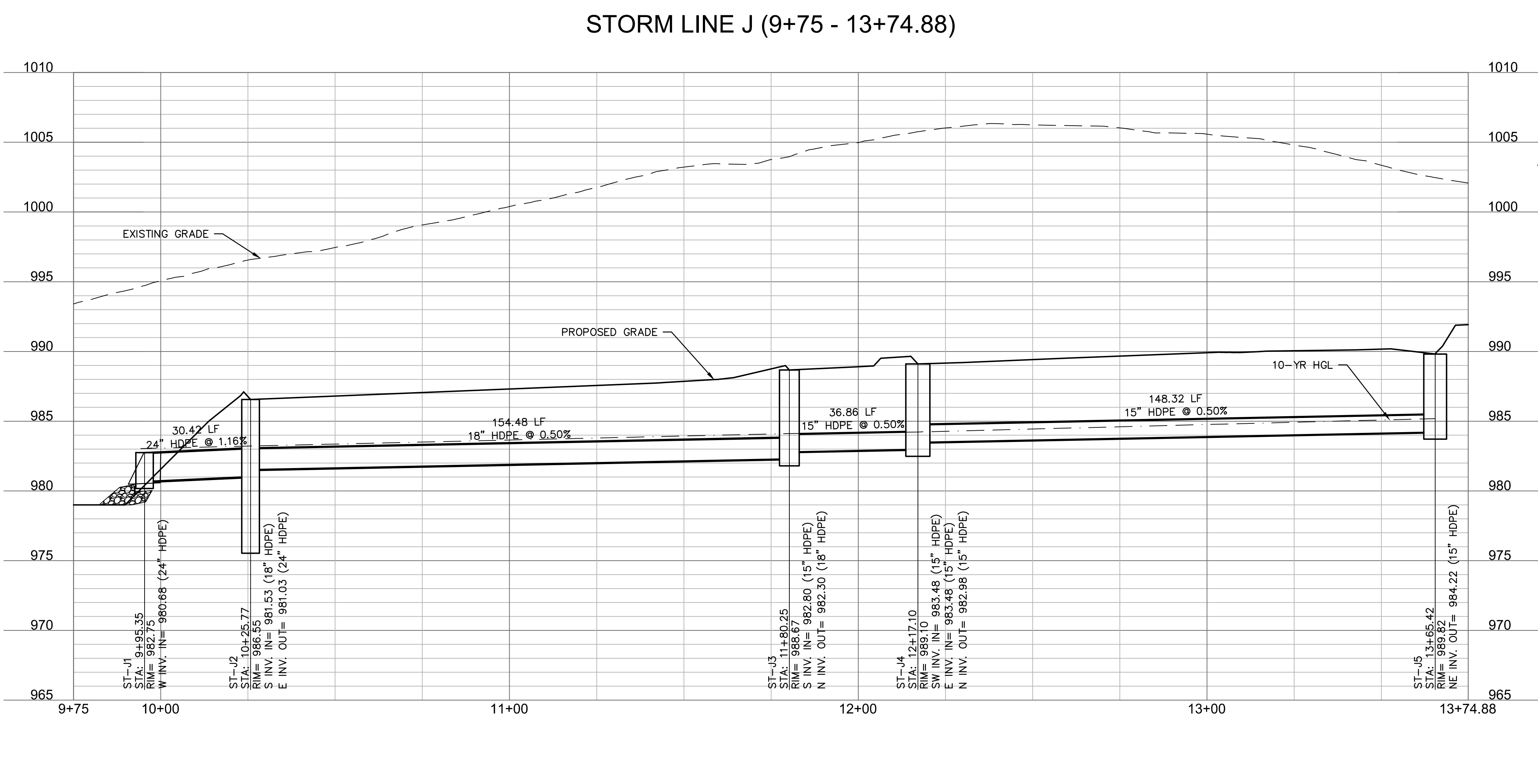
drawn by: OLSSON
checked by: ENG
approved by: ENG
GNCV by: ENG
project no: 021-04157
drawing no: STM02_02104157.dwg
date:

SHEET
C7.09

STORM PLAN & PROFILE G
PHASE I FINAL DEVELOPMENT PLAN
SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET
LEE'S SUMMIT, MISSOURI

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	12/28/2021	CITY COMMENTS	
2	01/05/2022	CITY COMMENTS	
3	02/03/2022	CITY #2 AND OWNER CHANGES	
4	02/24/2022	CITY #2 AND OWNER COMMENTS	





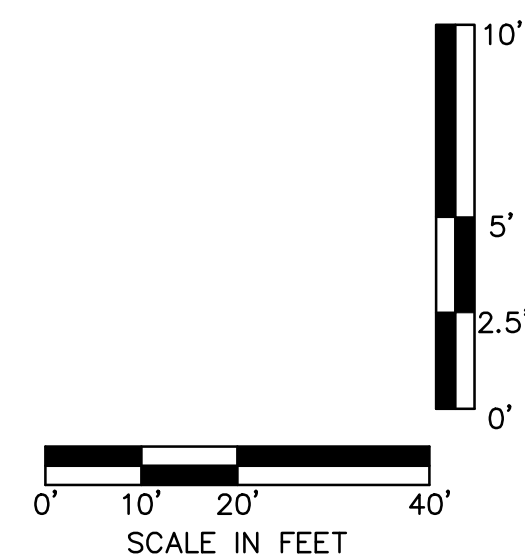
- LEGEND**
- PROPERTY LINE
 - LOT LINES
 - RIGHT-OF-WAY LINE
 - SS SANITARY SEWER SERVICE
 - E FUTURE ELECTRICAL LINE
 - W FUTURE DOMESTIC WATER SERVICE
 - GAS FUTURE GAS SERVICE
 - COMM FUTURE TELEPHONE SERVICE
 - EXISTING GRADE CONTOUR
 - FINISHED GRADE CONTOUR
 - STORM SEWER
 - 10-YEAR HGL
 - 100-YEAR HGL

- KEYNOTE LEGEND**
- PROPOSED STORM STRUCTURE
 - CONTRACTOR SHALL PROVIDE 95% COMPACTED FILL TO AN ELEVATION OF 2'-0" (MIN.) OVER THE TOP OF PROPOSED PIPE ELEVATION AND TEMPORARY FILL

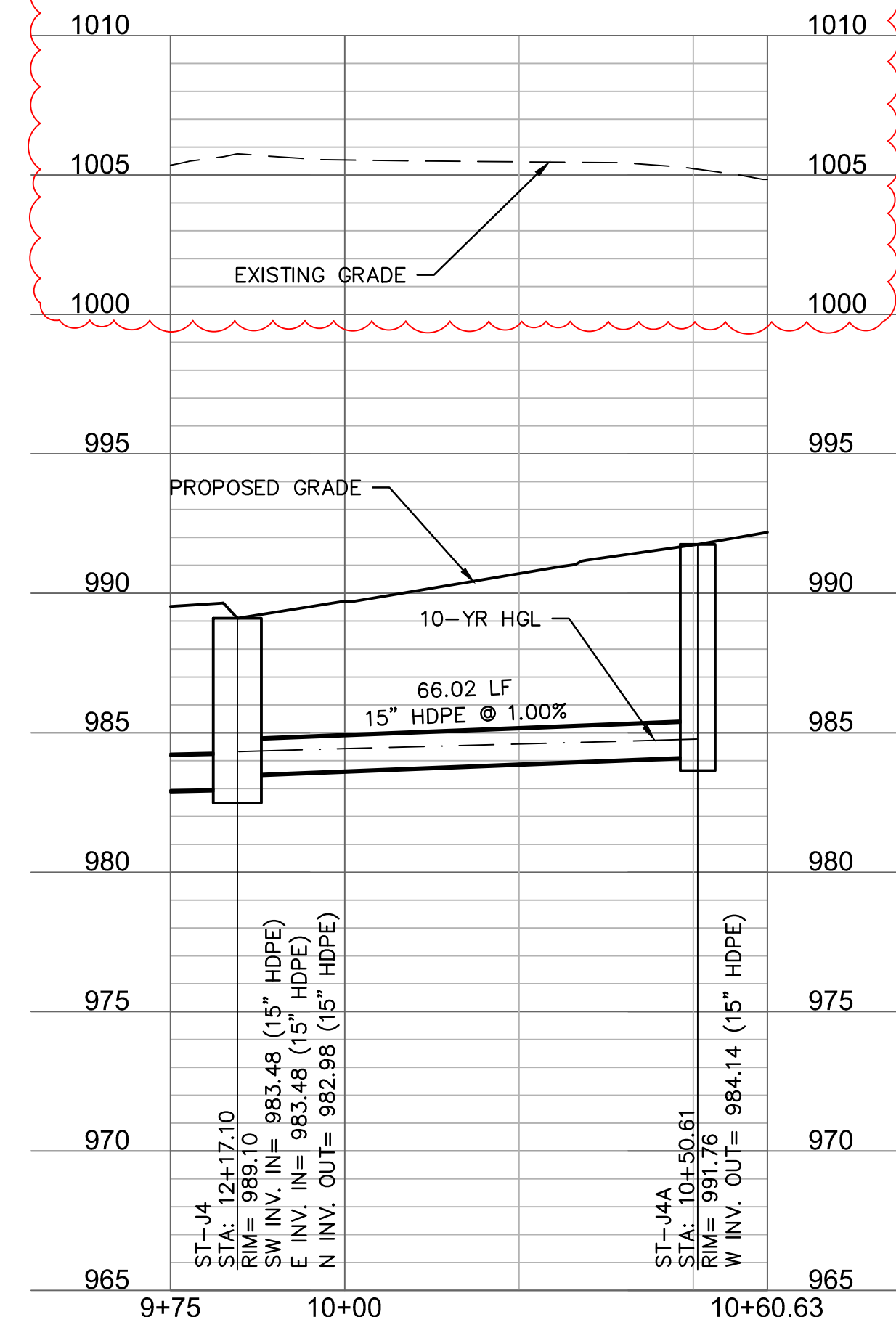
STORM STRUCTURE NOTES

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- ALL STORM SEWER PIPE TO BE HDPE, RCP CLASS III, OR PRE-APPROVED EQUIVALENT.
- ALL AREA INLETS SHOULD BE CONSTRUCTED WITH 6" THROAT.

STRUCTURES		STRUCTURES	
ID	DESCRIPTION	ID	DESCRIPTION
ST-J1	24" CONCRETE FLARED END SECTION WITH TOE WALL 9+95.35, 0.00' STORM LINE J INV IN = 980.68 (24" HDPE) N: 52737.341; E: 55959.859	ST-J4A	4'X4' CURB/GRATE INLET 10+50.61, 0.00' STORM LINE J4 RIM= 991.76 INV OUT = 984.14 (15" HDPE) N: 52546.304; E: 56004.075
ST-J2	4'X4' CURB/GRATE INLET INSERT 30' SNOUT WITH 60" SUMP DEPTH 10+25.77, 0.00' STORM LINE J RIM= 988.55 INV IN = 981.53 (18" HDPE) INV OUT = 981.03 (24" HDPE) N: 52736.289; E: 55929.460	ST-J5	4'X4' CURB/GRATE INLET 13+65.42, 0.20' RT STORM LINE J RIM= 989.82 INV OUT = 984.22 (15" HDPE) N: 52408.936; E: 55880.132
ST-J3	4'X4' CURB/GRATE INLET 11+80.25, 0.00' STORM LINE J RIM= 988.67 INV IN = 982.80 (15" HDPE) INV OUT = 982.30 (18" HDPE) N: 52581.835; E: 55932.053		
ST-J4	4'X4' CURB/GRATE INLET 12+17.10, 0.00' STORM LINE J RIM= 989.10 INV IN = 983.48 (15" HDPE) INV OUT = 982.98 (15" HDPE) N: 52545.473; E: 55938.064		

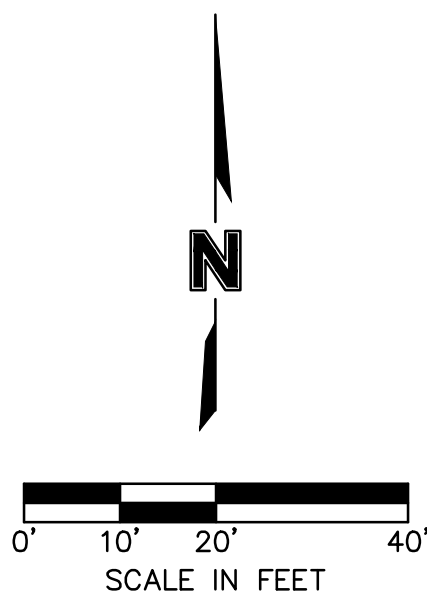


STORM LINE J4 (9+75 - 10+60.63)





STRUCTURES	
ID	DESCRIPTION
EX. ST-G1	EXISTING MAIN STREET STORM STRUCTURE 9+75, 0.00' STORM LINE K RIM= 986.05 INV IN = 976.00 (15" HDPE) N: 52980.741; E: 55925.632
ST-K1	6' I.D. MANHOLE 10+20.50, 0.00' STORM LINE K RIM= 987.44 INV IN = 976.96 (15" HDPE) INV OUT = 976.46 (15" HDPE) N: 52944.576; E: 55898.019
ST-K2	4'X4' JUNCTION BOX REFERENCE DETAIL ON SHEET. 11+35.40, -0.01' LT STORM LINE K RIM= 982.00 INV OUT = 979.00 (15" HDPE) N: 52849.281; E: 55962.205

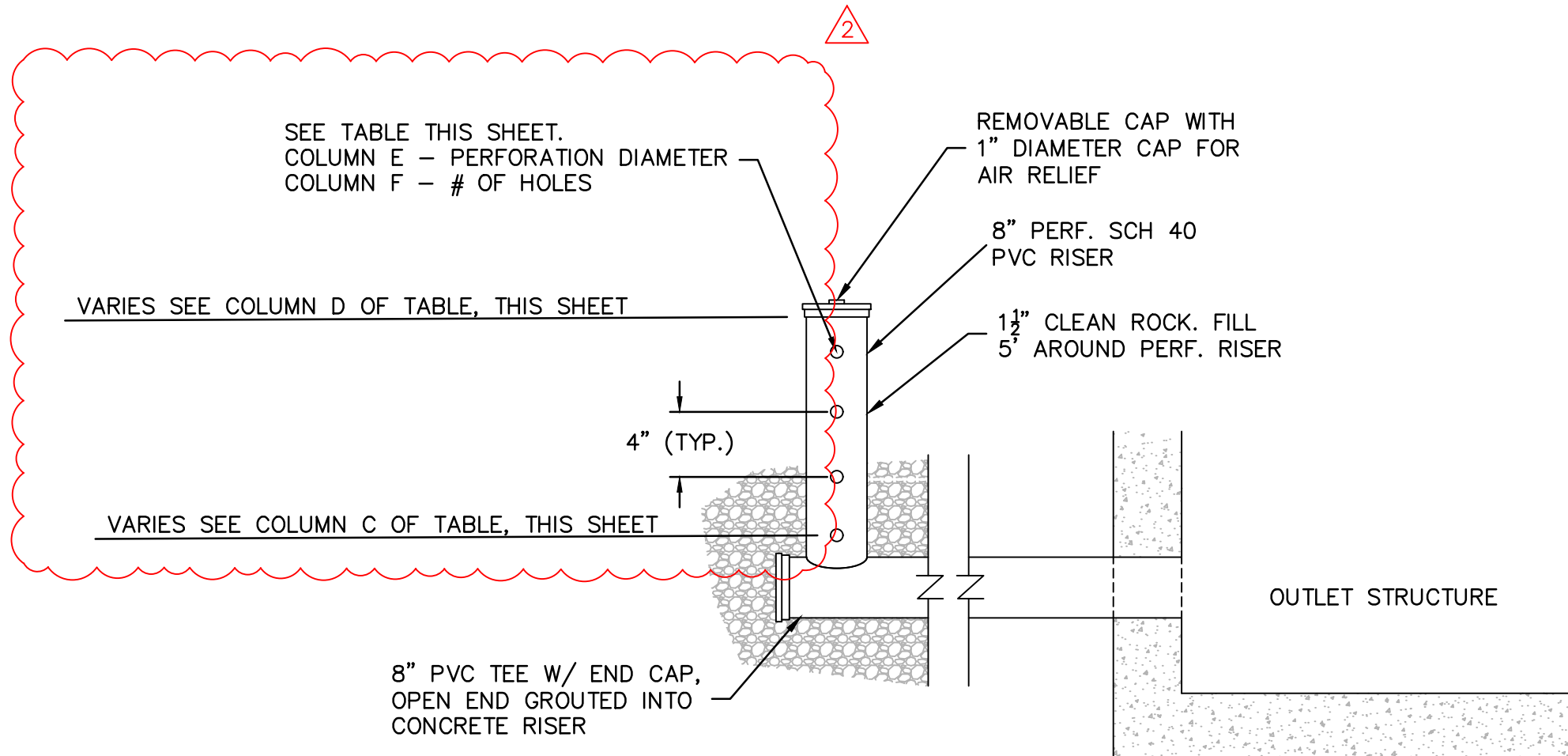


LEGEND	
	PROPERTY LINE
	LOT LINES
	RIGHT-OF-WAY LINE
	SANITARY SEWER SERVICE
	FUTURE ELECTRICAL LINE
	FUTURE DOMESTIC WATER SERVICE
	FUTURE GAS SERVICE
	FUTURE TELEPHONE SERVICE
	EXISTING GRADE CONTOUR
	FINISHED GRADE CONTOUR
	STORM SEWER
	10-YEAR HGL
	100-YEAR HGL

KEYNOTE LEGEND	
	PROPOSED STORM STRUCTURE
	CONTRACTOR SHALL PROVIDE 95% COMPACTED FILL TO AN ELEVATION OF 2'-0" (MIN.) OVER THE TOP OF PROPOSED PIPE ELEVATION AND TEMPORARY FILL

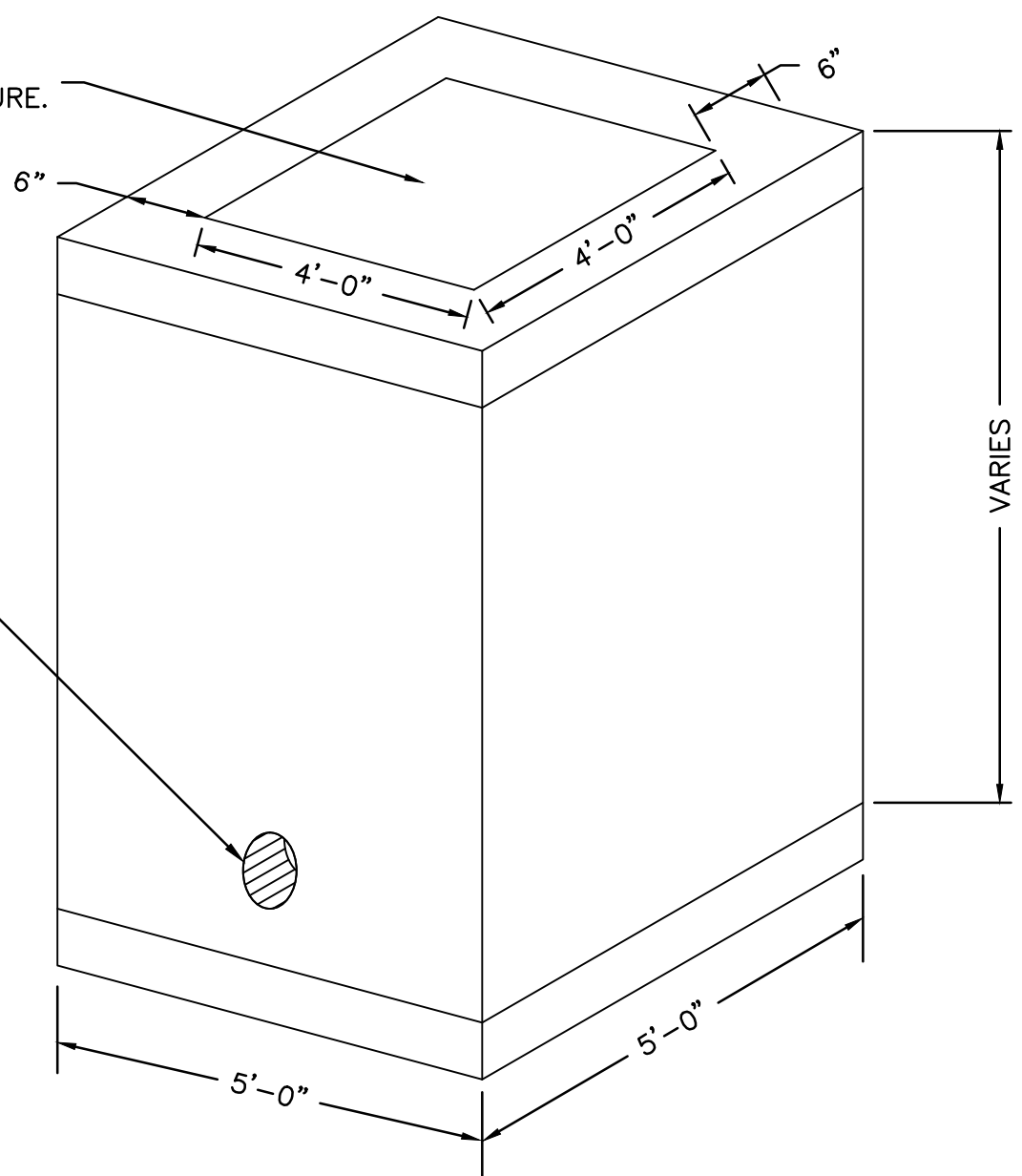
STORM STRUCTURE NOTES

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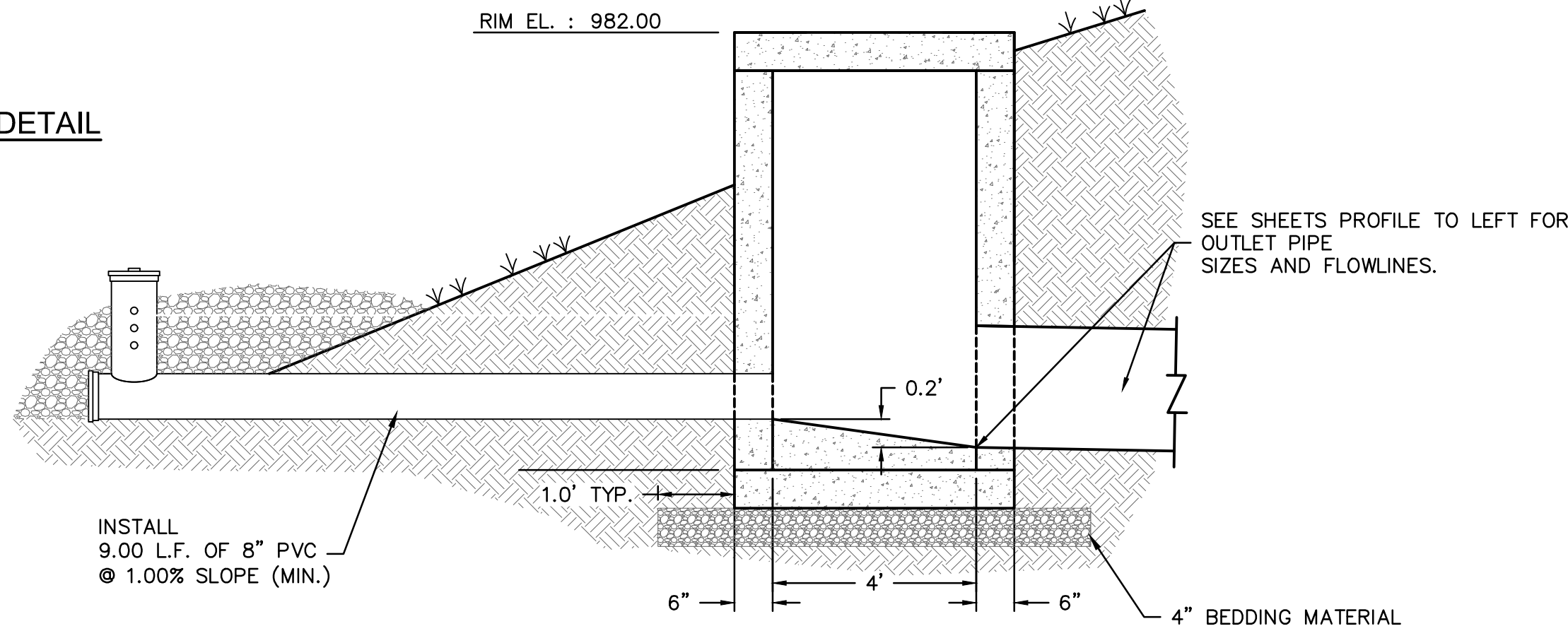
PERFORATED RISER PIPE DETAIL
N.T.S.

STRUCTURE TOP OPENING. INSTALL FLAT ROOF
RECTANGULAR TRASH RACK ON TOP OF STRUCTURE.



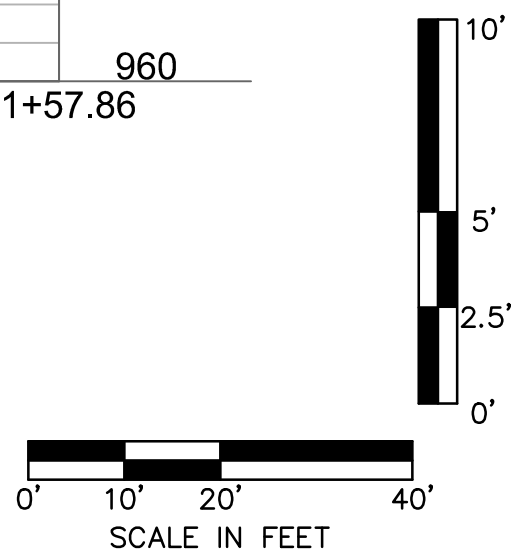
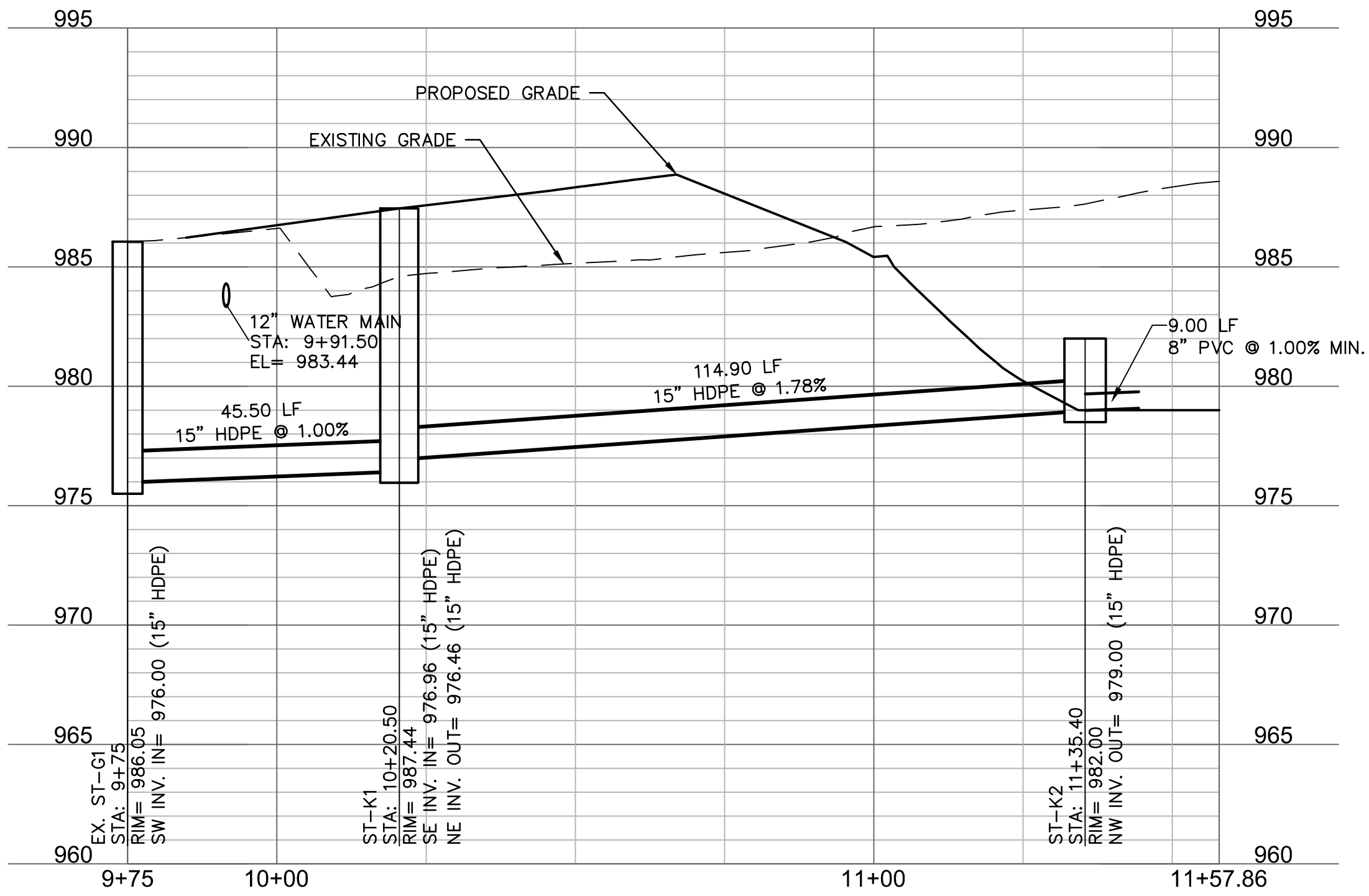
OUTLET STRUCTURE DETAIL
N.T.S.

- NOTES:
- BOTTOM TO BE POURED IN PLACE.
 - PIPE TO BE ON GRADE BEFORE BOTTOM IS CONSTRUCTED.
 - RAM-NEK ALL JOINTS (OR EQUAL).
 - #4 BARS @ 10" C.C. VERT. & HOR. IN WALLS & BOTTOM.
 - REINFORCING BARS SHALL BE CUT OR BENT AT PIPE OPENINGS.
 - ALL PIPES SHALL FIT FLUSH WITH INSIDE FACE OF BOX.
 - BOTTOM OF BOX TO BE FILLED WITH CONCRETE TO 6" ABOVE INVERT OF PIPE FORMING CHANNELS TOWARD OUTLET PIPE FROM ALL INLET PIPES.
 - ALL CONCRETE SHALL HAVE 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
 - ALL REINFORCING BARS TO BE DEFORMED BARS AND MEET REQUIREMENTS OF 1966 ASTM STANDARDS NO. A-615-68 MIN. GRADE 40.
 - MUST MAINTAIN 6" CLEARANCE BETWEEN THE PIPE AND WALLS FOR PRECAST BOXES.



SECTION THROUGH OUTLET STRUCTURE
N.T.S.

STORM LINE K (9+75 - 11+57.86)



OUTLET STRUCTURE AND PERFORATED RISER INFORMATION					
A	B	C	D	E	F
DETENTION FACILITY	STRUCTURE ID	BOTTOM PERFORATION ELEVATION	TOP ELEVATION OF PERFORATED PIPE	PERFORATION DIAMETER	# OF PERFORATION HOLES
B5	ST-K2	979.00	980.00	1-5/8" (1.6")	3

10 YEAR STORM CALCULATIONS

STORM SEWER PIPE AND STRUCTURE TABLE

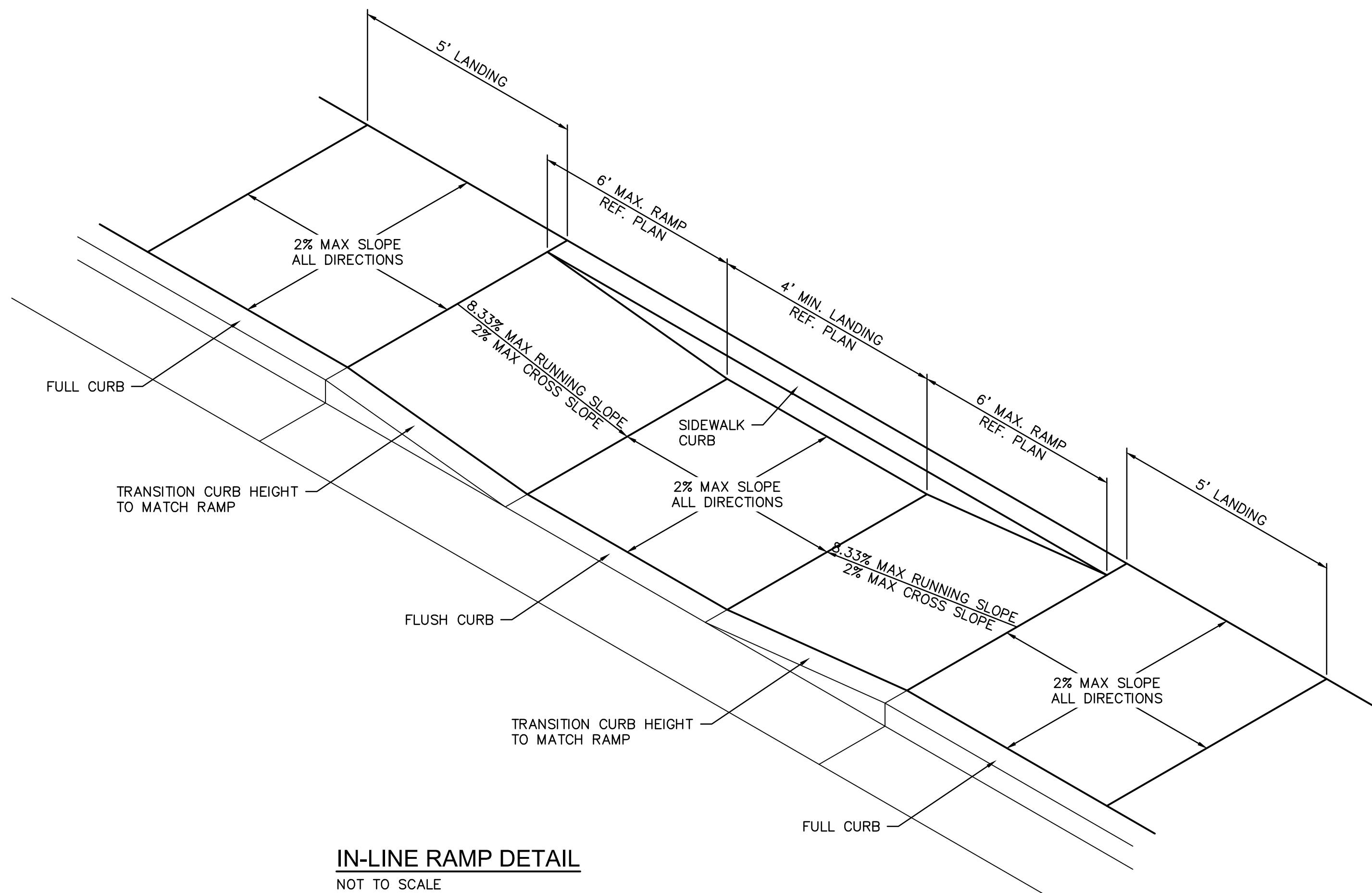
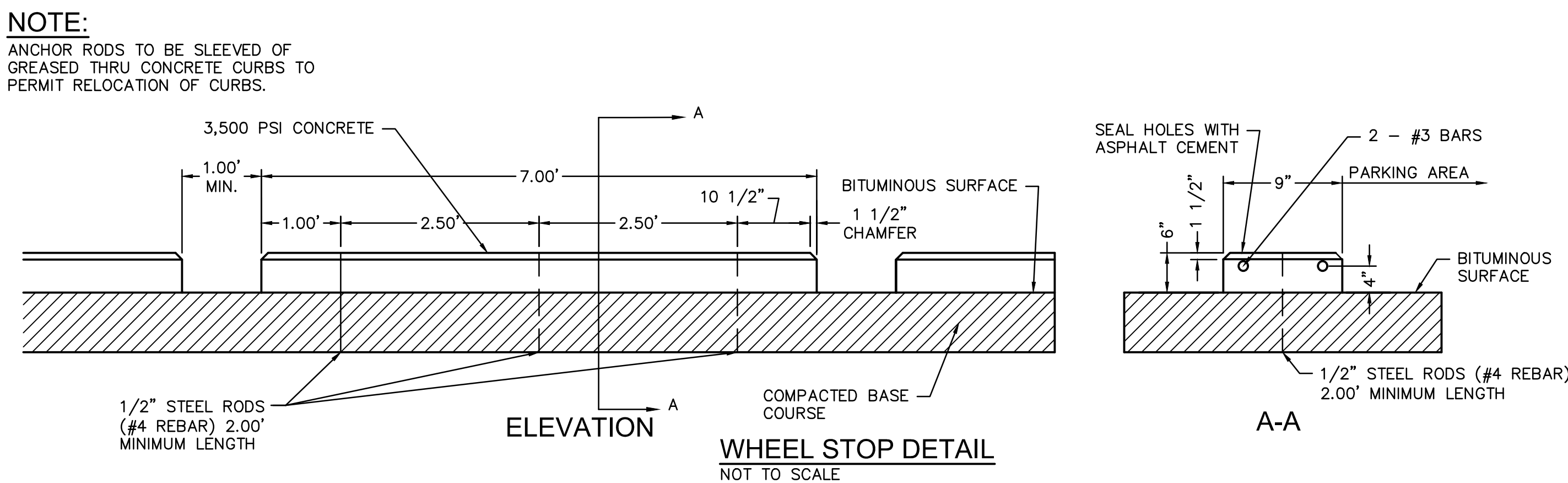
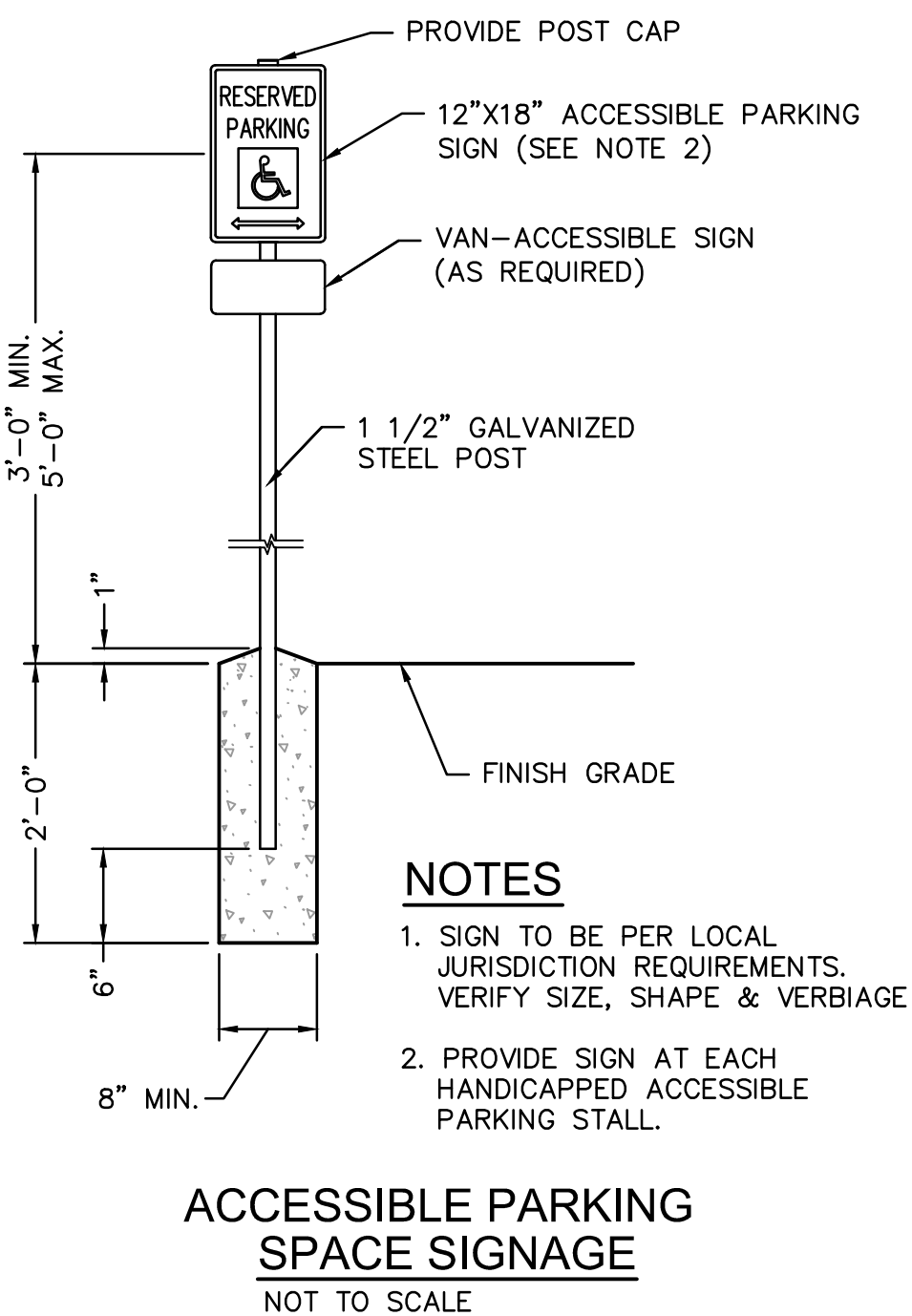
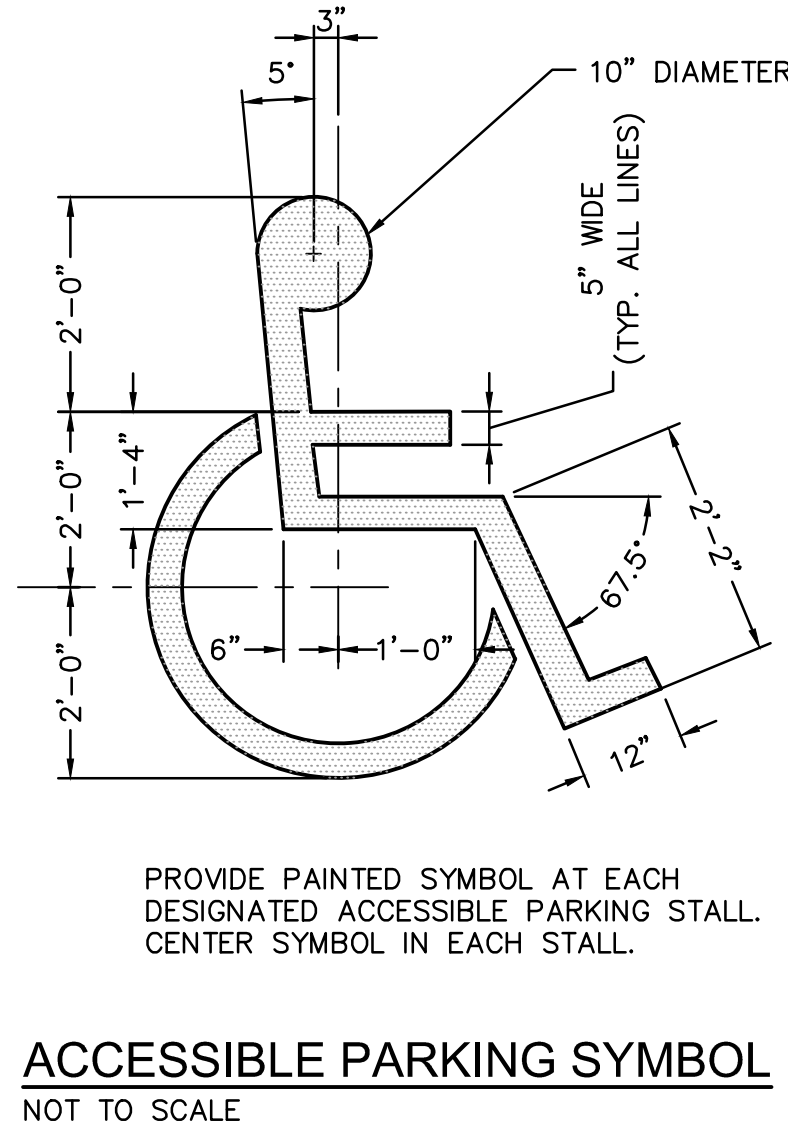
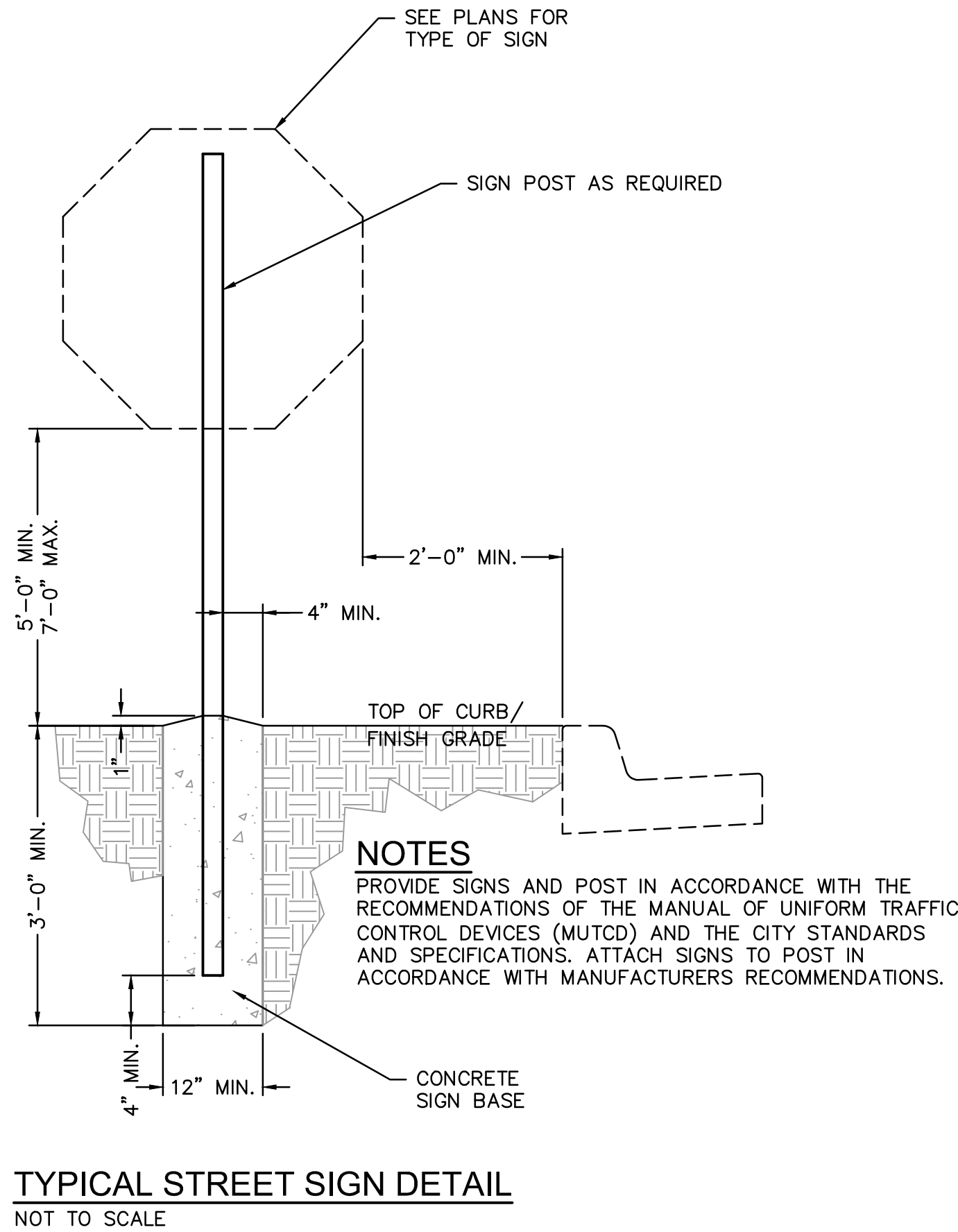
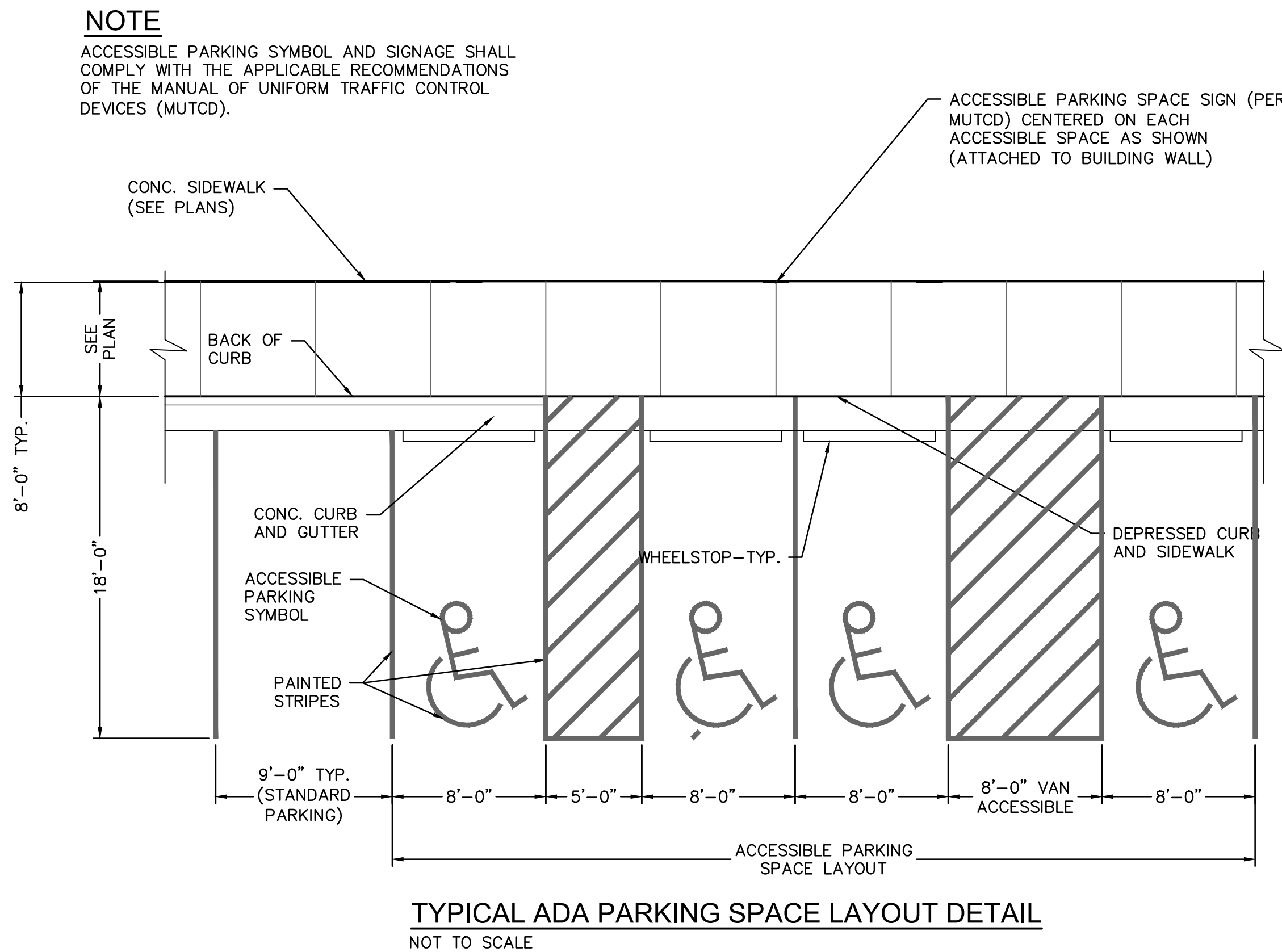
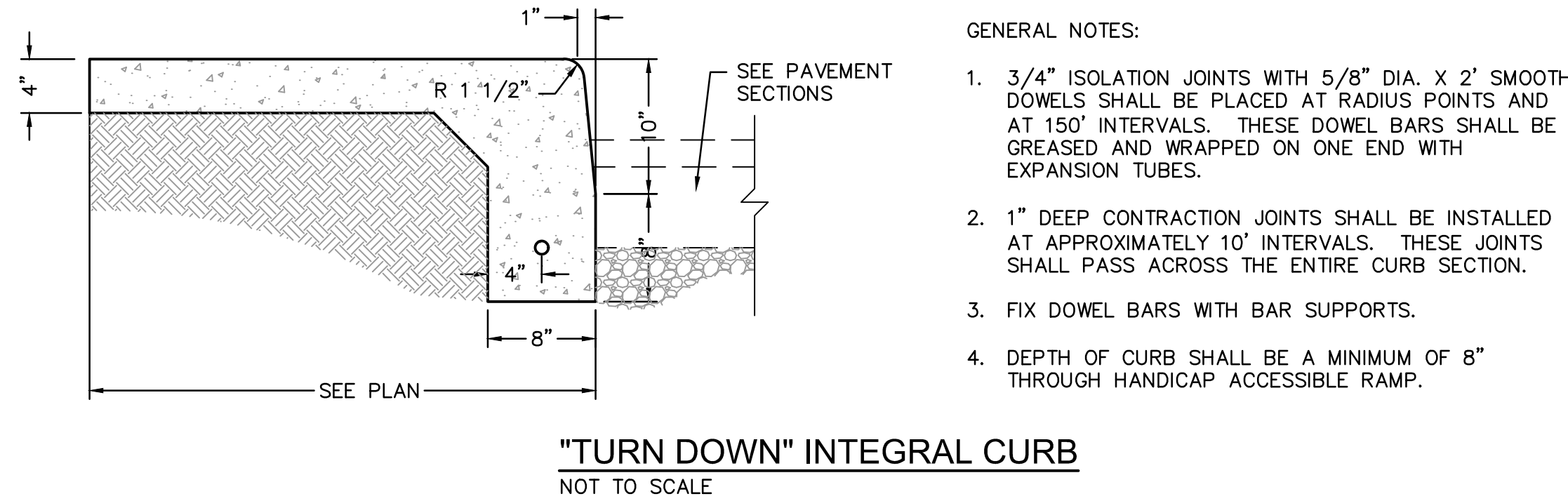
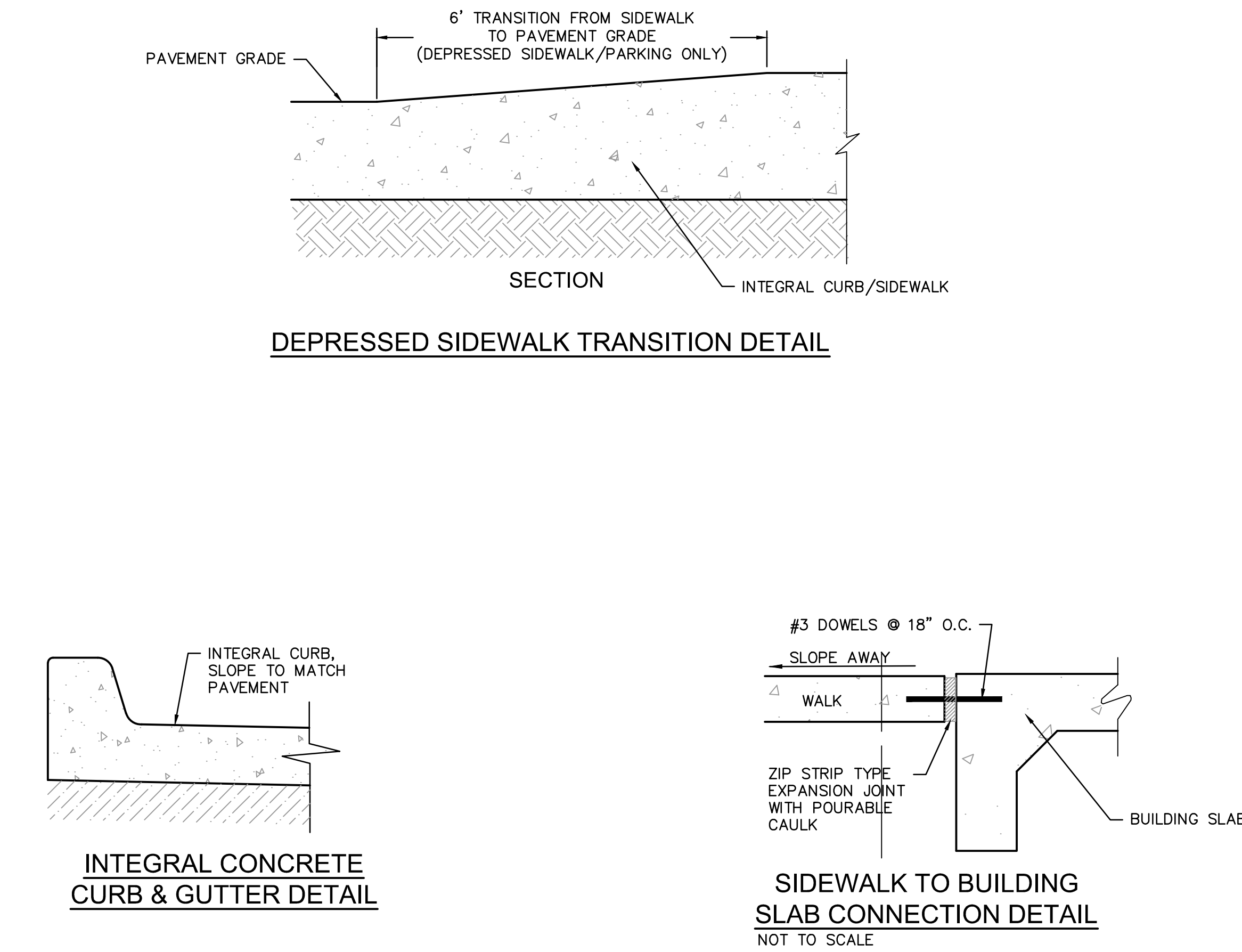
Lee's Summit Logistics																																		
JOB # 021-04157																																		
DESIGN CONDITIONS: PRIVATE - 10 YEAR STORM EVENT																																		
STRUCTURES			RUNOFF CALCULATIONS							PIPE DESIGN																								
FROM	TO	DIRECT AREA (ACRES)	TOTAL AREA (ACRES)	C	KC (K<1.0)	Tc (MIN)	FLOW TIME (MIN)	INTENSITY (IN/HR)	DESIGN Q (CFS)	DESCRIPTION	PIPE LENGTH (L.F.)	PIPE SLOPE (%)	PIPE DIA (IN)	Q FULL (CFS)	PIPE AREA (SQ.FT.)	V FULL (F/S)	DESIGN V (F/S)	HwD	MH TOP ELEVATION	UPSTREAM FLOWLINE	DOWNSTREAM FLOWLINE	DOWNSTREAM WATER ELEVATION	FRICTION HEAD (H.F)	ENTRY LOSS COEFFICIENT (K)	ACTUAL ENTRY LOSS (K)	ENTRY LOSS (H.M)	h f + h m (Ft)	HW, INLET CONTROL	HW, OUTLET CONTROL	HYDRAULIC GRADE ELEV.	HYDRAULIC GRADE (MAX)	Comments		
B8		0.26	0.90	0.90	5.0			7.35	1.72											989.21											984.59	987.71		
	B7	0.15	0.90	0.90	5.0	0.46		7.35	1.72		149.63	1.75	15	8.57	1.23	6.98	5.46	0.73		983.67	981.05	981.69	0.11	0.40	1.00	0.46	0.57	984.59	983.67		984.59	987.71		
B7		0.15	0.90	0.90	5.0			7.35	0.99											986.99											981.57	985.49		
	B6	0.25	0.41	0.90	0.90	5.5	0.10	7.21	2.86		36.71	1.75	15	8.57	1.23	6.98	6.16	0.82		980.55	979.91	980.72	0.06	0.40	0.40	0.24	0.30	981.57	981.01		981.57	985.49		
B6		0.25	0.90	0.90	5.0			7.35	1.65											986.66											980.73	985.16		
	B5	0.00	0.66	0.90	0.90	5.6	0.13	7.18	4.27		62.45	2.75	15	10.74	1.23	8.75	8.24	1.06		979.41	977.69	978.66	0.28	0.40	0.40	0.42	0.70	980.73	979.41		978.50	980.46		
B5		0.00	0.90	0.90	5.0			7.35	0.00											981.96														
	B4	0.24	0.66	0.90	0.90	5.7	0.26	7.15	4.25		108.57	1.75	15	8.57	1.23	6.98	6.95	1.05		977.19	975.29	976.33	0.47	0.40	0.40	0.30	0.78	978.50	977.19		976.50	982.01		
B4		0.24	0.90	0.90	5.0			7.35	1.59											983.51														
	B3	0.11	0.90	0.90	5.9	0.23		7.07	5.73		101.11	1.75	15	8.57	1.23	6.98	7.47	1.36		974.79	973.02	974.25	0.81	0.40	0.40	0.35	1.15	976.50	975.40		976.50	982.01		
B3		0.11	0.90	0.90	5.0			7.35	0.73											982.70														
	B2	0.32	11.21	0.90	0.90	6.2	0.09	7.01	70.71		116.86	6.00	30	100.74	4.91	20.52	22.17	3.98		972.52	965.51	968.28	3.50	0.40	0.40	3.05	6.55	982.46	974.83		982.46	981.20		
B2		0.32	0.90	0.90	5.0			7.35	2.12											973.04														
	B1	0.32	11.21	0.90	0.90	6.3	0.03	6.98	70.48		23.41	1.75	36	88.47	7.07	12.52	13.87	1.99		965.08	964.67	967.33	0.26	0.40	0.40	1.19	1.46	971.05	968.79		971.05	971.54		
				0.00				9.31																										
C3		1.84	0.90	0.90	5.0			7.35	12.18											983.89											980.70	982.39		
	C2	1.80	1.84	0.90	0.90	5.0	1.25	7.35	12.18		420.00	0.50	24	16.04	3.14	5.11	5.61	0.97		978.76	976.66	976.66	1.23	0.40	1.00	0.49	1.72	980.70	978.76		980.70	982.39		
C2		1.80	0.90	0.90	5.0			7.35	11.81											984.09											979.00	982.59		
	C1	0.14	3.64	0.90	0.90	6.2	0.76	6.99	22.89		299.07	0.50	30	29.08	4.91	5.92	6.55	1.02		976.46	974.96	974.96	0.94	0.40	1.00	0.67	1.60	979.00	976.46		979.00	982.59		
C1		0.14	0.90	0.90	5.0			7.35	0.93											986.25														
	B3		10.20	0.90	0.90	7.0	0.12	6.78	62.24		75.97	1.00	36	66.88	7.07	9.46	10.72	1.70		974.46	973.70	973.70	0.67	0.40	0.40	0.71	1.38	979.56	974.46		979.56	984.75		
				0.00				9.31												982.7														
D4		2.43	0.90	0.90	5.0			7.35	16.08											986.70											982.61	985.20		
	D3	2.02	0.90	0.90	5.0			7.35	13.37		300.00	0.50	30	29.08	4.91	5.92	6.06	0.84		980.51	979.01	981.02	0.46	0.40	1.00	0.57	1.04	982.61	982.05		981.96	984.40		
D3		2.02	0.90	0.90	5.0			7.35	13.37											985.90														
	D2	4.45	0.90	0.90	5.8	0.74		7.11	28.46		300.00	0.50	30	29.08	4.91	5.92	6.74	1.21		978.81	977.31	980.23	1.46	0.40	0.40	0.28	1.74	981.82	981.96		980.29	984.48		
D2		1.72	0.90	0.90	5.0			7.35	11.38											985.98														
	D1	0.00	6.17	0.90	0.90	6.6	0.06	6.90	38.31		296.19	0.50	36	47.29	7.07	6.69	7.43	1.06		977.11	975.63	978.69	0.98	0.40	0.40	0.34	1.33	980.29	980.02		978.34	985.60		
D1		0.00	0.90	0.90	5.0			7.35	0.00											987.10														
	C1	0.00	6.42	0.90	0.90	7.2	0.07	6.72	38.84		33.04	0.50	36	47.29	7.07	6.69	7.45	1.07		975.13	974.96	977.67	0.11	0.40	0.40	0.34	0.46	978.34	978.13		978.34	985.60		
E1		0.25	0.90	0.90	5.0			7.35	1.65											988.44												984.14	986.94	
	D1	0.25	0.90	0.90	7.3	0.40		6.70	1.51		125.00	1.75	15	8.57	1.23	6.98	5.25	0.72		983.24	981.05	982.04	0.07	0.40	1.00	0.43	0.50	984.14	983.24		984.14	986.94		
F7		0.04	0.90	0.90	5.0			7.35	0.06											989.50												984.84	988.06	
	F6	0.23	0.04	0.90	0.90	7.7	0.23	6.60	0.24		34.92	1.00	15	6.48	1.23	5.28	2.53	0.67		984.00	983.65	983.91	0.00	0.40	1.00	0.10	0.10	984.84	984.01		984.84	988.06		
F6		0.23	0.90	0.90	5.0			7.35	1.52											969.33														
	F5	0.00	0.27	0.90	0.90	7.9	0.40	6.55	1.59		104.17	1.00	15	6.48	1.23	5.28	4.37	0.72		983.15	982.11	982.78	0.06	0.40	1.00	0.30	0.36	984.05	983.15		982.51	987.39		
F5		0.00	0.90	0.90	5.0			7.35	0.00											988.89														
	F4	0.23	0.27	0.90	0.90	8.3	0.22	6.45	1.57		57.81	1.00	15	6.48	1.23	5.28	4.34	0.72		981.61	981.03	981.70	0.03	0.40	0.40	0.12	0.15	982.51	981.85		982.51	987.39		
F4		0.23	0.90	0.90	5.0			7.35	1.52											987.32												981.59	985.82	
	F3	0.50	0.90	0.90	8.6	0.32		6.40	2.88		97.95	1.00	15	6.48	1.23	5.28	5.12	0.85		980.53	979.55	980.47	0.20	0.40	1.00	0.41	0.60	981.59	981.08		981.59	985.82		
F3		1.06	0.90	0.90	5.0			7.35	7.01											986.41												978.74	984.91	
	F2	0.65	5.72	0.90	0.90	8.9	0.18	6.32	32.56		97.87	1.00	30	41.13	4.91	8.38	9.27	1.37		975.31	974.33	976.98	0.62	0.40	0.40	0.53	1.16	978.74	978.14		978.74	984.91		
F2		0.65	0.90	0.90	5.0			7.35	4.30											984.87												977.60	983.37	
	F1	0.24	8.31	0.90	0.90	9.0	0.06	6.28	47.00		34.50	1.00	36	66.88	7.07	9.46	10.23	1.26		973.83	973.48	975.97	0.17	0.40	0.40	0.65	0.82	977.60	976.79		977.60	983.37		
G5		0.65	0.90	0.90	5.0			7.35	1.59											1004.48											996.89	1002.98		
	G4	0.24	0.90	0.90	9.1	0.49		6.27	1.35		209.36	4.50	15	13.74	1.23	11.20	7.15	0.71		996.00	986.58	987.07	0.09	0.40	1.00	0.79	0.89	996.69	996.00		996.69	1002.98		
G4		0.32	0.90	0.90	5.0			7.35	2.12											993.22												987.17	991.72	
	G3	0.46	0.56	0.90	0.90	9.6		6.16	3.11		215.13	2.75	15	10.74	1.23	8.75	7.56	0.87		986.08	980.16	980.98	0.50	0.40	1.00	0.89	1.39	987.17	986.08		987.17	991.72		
G3		0.46	0.90	0.90	5.0			7.35	3.04											987.20												981.06	985.70	
	G2	2.08	1.02	0.90																														

100 YEAR STORM CALCULATIONS

STORM SEWER PIPE AND STRUCTURE TABLE

Lee's Summit Logistics																																
JOB #: 021-04157																																
DESIGN CONDITIONS: PRIVATE - 100 YEAR STORM EVENT																																
STRUCTURES			RUNOFF CALCULATIONS							PIPE DESIGN																						
FROM	TO	DIRECT AREA (ACRES)	TOTAL AREA (ACRES)	C	KC (K<1.25)	Tc (MIN)	FLOW TIME (MIN)	INTENSITY (IN/HR)	DESIGN Q (CFS)	DESCRIPTION	PIPE LENGTH (L.F.)	PIPE SLOPE (%)	PIPE DIA (IN)	Q FULL (CFS)	PIPE AREA (SQ.FT.)	V FULL (F/S)	DESIGN V (F/S)	HwID	MH TOP ELEVATION	UPSTREAM FLOWLINE	DOWNSTREAM FLOWLINE	DOWNSTREAM WATER ELEVATION	FRICTION HEAD (H-F)	ENTRY LOSS COEFFICIENT (K)	ACTUAL ENTRY LOSS (K)	ENTRY LOSS (H.M)	h f + h m (FT)	HW, INLET CONTROL	HW, OUTLET CONTROL	HYDRAULIC GRADE ELEV.	HYDRAULIC GRADE (MAX)	Comments
B8	B7	0.26	0.26	0.90	1.00	5.0		10.32	2.68				15	8.57	1.23	6.98	6.18	0.82	989.21	983.67	981.05	981.88	0.26	0.40	1.00	0.59	0.85	984.70	983.67	984.70	987.71	
B7	B6	0.15	0.15	0.90	1.00	5.0		10.32	1.55				15	8.57	1.23	6.98	6.93	1.04	986.99	980.55	979.91	980.94	0.15	0.40	0.40	0.30	0.45	981.85	981.39	981.85	985.49	
B6	B5	0.25	0.66	0.90	1.00	5.5	0.11	10.12	6.68				15	10.74	1.23	8.75	9.21	1.61	986.66	979.41	977.69	978.92	0.68	0.40	0.40	0.53	1.20	981.43	980.13	981.43	985.16	
B5	B4	0.00	0.66	0.90	1.00	5.0		10.32	0.00				15	8.57	1.23	6.98	7.70	1.61	981.96	977.19	975.29	976.64	1.16	0.40	0.40	0.37	1.53	979.20	978.17	979.20	980.46	
B4	B3	0.24	0.90	0.90	1.00	5.0	0.23	10.32	2.48				15	8.57	1.23	6.98	7.32	2.38	983.51	974.79	973.02	974.85	1.98	0.40	0.40	0.33	2.31	977.76	977.16	977.76	982.01	
B3	B2	0.11	0.90	0.90	1.00	5.0		10.32	1.14				30	100.74	4.91	20.52	22.80	8.81	982.70	972.52	965.51	#VALUE!	8.61	0.40	0.40	0.37	11.78	994.54	#VALUE!	#VALUE!	981.20	
B2	B1	0.32	11.21	0.90	1.00	5.0		10.32	3.30				38	88.47	7.07	12.52	15.64	3.92	973.04	965.08	964.67	968.31	0.65	0.40	0.40	1.52	2.17	976.84	970.47	976.84	971.54	
				0.00		6.2	0.02	9.86	110.56																							
C3	C2	1.84	1.84	0.90	1.00	5.0		10.32	18.99				24	16.04	3.14	5.11	6.05	1.40	983.89	978.76	976.66									981.56	982.39	
C2	C1	1.80	3.64	0.90	1.00	5.0		10.32	18.58				30	29.08	4.91	5.92	7.31	1.52	984.09	978.46	974.96	974.95	2.31	0.40	1.00	0.83	3.14	980.27	978.46	980.27	982.59	
C1	B3	0.14	10.20	0.90	1.00	5.0		10.32	1.45				36	66.88	7.07	9.46	13.87	3.22	986.25	974.46	973.70		1.65	0.40	0.40	1.19	2.85	984.13	974.46	984.13	984.75	
				0.00		6.8	0.09	9.61	98.02																							
D4	D3	2.43	2.43	0.90	1.00	5.0		10.32	25.08				30	29.08	4.91	5.92	6.65	1.09	982.7	980.51	979.01	981.66	1.13	0.40	1.00	0.69	1.82	983.23	983.47	983.47	985.20	
D3	D2	2.02	4.45	0.90	1.00	5.0		10.32	20.85				30	29.08	4.91	5.92	9.08	1.98	985.90	978.81	977.31	980.92	3.57	0.40	0.40	0.51	4.08	983.77	985.00	985.00	984.40	
D2	D1	1.72	6.17	0.90	1.00	5.0		10.32	17.75				36	47.29	7.07	6.69	8.56	1.64	985.98	977.11	975.63	978.89	2.45	0.40	0.40	0.46	2.91	982.04	982.79	983.17	985.60	
D1	C1	0.00	6.42	0.90	1.00	6.3	0.08	9.81	60.51				36	47.29	7.07	6.69	8.72	1.68	987.10	975.13	974.96	978.60	0.28	0.40	0.40	0.47	0.76	980.17	979.35	980.17	985.60	
E1	D1	0.25	0.25	0.90	1.00	5.0		10.32	2.58				15	8.57	1.23	6.98	5.99	0.79	988.44	983.24	981.05	982.14	0.17	0.40	1.00	0.56	0.73	984.23	983.24	984.23	986.94	
F7	F6	0.04	0.04	0.90	1.00	5.0		10.32	0.41				15	6.48	1.23	5.28	2.89	0.67	989.56	984.00	983.65	983.97	0.00	0.40	1.00	0.13	0.13	984.84	984.10	984.84	988.06	
F6	F5	0.23	0.27	0.90	1.00	5.0		10.32	2.37				15	6.48	1.23	5.28	5.72	1.12	989.33	983.15	982.11	982.97	0.16	0.40	1.00	0.38	0.54	984.16	983.51	984.16	987.83	
F5	F4	0.00	0.27	0.90	1.00	5.0		10.32	0.00				15	6.48	1.23	5.28	4.94	0.80	988.89	981.61	981.03	981.69	0.09	0.40	0.40	0.15	0.24	982.61	982.12	982.61	987.39	
F4	F3	0.23	0.50	0.90	1.00	5.0		10.32	2.37				15	6.48	1.23	5.28	5.72	1.12	987.32	980.53	979.55	980.76	0.50	0.40	1.00	0.51	1.01	981.93	981.77	981.93	985.82	
F3	F2	1.08	5.72	0.90	1.00	5.0		10.32	10.94				30	41.13	4.91	8.38	10.61	2.46	986.41	975.31	974.33	977.99	1.59	0.40	0.40	0.70	2.29	981.47	980.28	981.47	984.91	
F2	F1	0.65	8.31	0.90	1.00	8.3	0.15	9.10	52.07				30	41.13	4.91	8.38	10.61	2.46	984.67	973.83	973.48	977.12	0.44	0.40	0.40	0.70	1.15	980.35	978.26	980.35	983.37	
G5	G4	0.24	0.24	0.90	1.00	5.0		10.32	2.48				15	13.74	1.23	11.20	8.16	0.77	1004.48	996.00	996.58	997.21	0.24	0.40	1.00	1.04	1.27	996.96	996.00	996.96	1002.98	
G4	G3	0.32	0.56	0.90	1.00	8.5	0.43	9.04	2.17				15	10.74	1.23	8.75	8.57	1.20	993.22	986.08	980.16	981.21	1.30	0.40	1.00	1.14	2.44	987.57	986.08	987.57	991.72	
G3	G2	0.46	1.02	0.90	1.00	5.0		10.32	4.75				18	7.45	1.77	4.21	5.06	1.35	987.20	979.66	978.25	980.33	2.08	0.40	1.00	0.40	2.47	981.69	982.80	982.80	985.70	
G2	G1	2.08	3.10	0.90	1.00	9.4	0.93	8.77	8.95				30	29.08	4.91	5.92	6.70	1.13	986.05	977.75	977.03	979.77	0.60	0.40	1.00	0.70	1.30	980.57	981.07	981.07	984.55	
G1	F3	1.06	4.16	0.90	1.00	5.0		10.32	10.94				30	29.08	4.91	5.92	7.12	1.48	986.07	976.53	975.81	978.95	1.05	0.40	0.40	0.32	1.37	980.23	980.31	980.23	983.74	
H2	H1	1.33	1.33	0.90	1.00	5.0		10.32	13.73				18	7.45	1.77	4.21	6.26	1.71	985.24	979.00	978.28	980.42	1.61	0.40	1.00	0.61	2.22	981.56	982.64	982.64	983.74	
H1	F2	0.61	1.94	0.90	1.00	11.0	0.38	8.31	11.05				24	16.04	3.14	5.11	5.80	1.18	985.24	978.08	977.36	979.63	0.72	0.40	0.40	0.21	0.93	980.44	980.56	980.44	983.74	
J5	J4	0.44	0.44	0.90	1.00	5.0		10.32	4.54				15	4.58	1.23	3.73	4.12	0.94	989.82	984.22	983.48	984.69	0.45	0.40	1.00	0.26	0.72	985.39	985.41	985.41	988.32	
J4	J3	0.23	0.83	0.90	1.00	11.8	0.60	8.10	3.56				15	4.58	1.23	3.73	5.38	1.59	988.10	982.98	982.80	984.57	0.39	0.40	0.40	0.18	0.57	984.97	985.14	985.14	987.60	
J3	J2	0.60	1.43	0.90	1.00	5.0		10.32	2.57				15	4.58	1.23	3.73	5.38	1.59	988.67	982.30	981.53	983.67	1.62	0.40	1.00	0.64	2.46	984.94	986.13	986.13	987.17	
J2	J1	0.95	2.38	0.90	1.00	12.5	0.46	7.92	11.33				18	7.45	1.77	4.21	6.41	1.76	986.55	982.30	981.53	983.67	1.62	0.40	1.00	0.64	2.46	984.94	986.13	986.13	987.17	
J1	J4	0.16	0.16	0.90	1.00	5.0		10.32	1.65				24	24.33	3.14	7.74	8.51	1.37	981.75	981.03	980.68	982.63	0.21	0.40	1.00	1.13	1.34	983.77	983.97	983.97	985.05	
J4A	J4	0.16	0.16	0.90	1.00	13.0	0.27	7.81	1.25				15	6.48	1.23	5.28	4.08	0.70	991.75	984.14	983.48	984.49	0.03	0.40	1.00	0.26	0.28	985.02	984.77	985.02	990.25	

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SCANNELL PROPERTIES

STATE OF MISSOURI
REK
MITCHELL ALAN
NUMBER
PE-2008010104
03-15-22

BY:
REVISIONS DESCRIPTION
DATE
REV. NO.
1 12-28-2021 CITY COMMENTS
2 01-03-2022 CITY COMMENTS
3 01-03-2022 CITY COMMENTS
4 02-24-2022 CITY COMMENTS

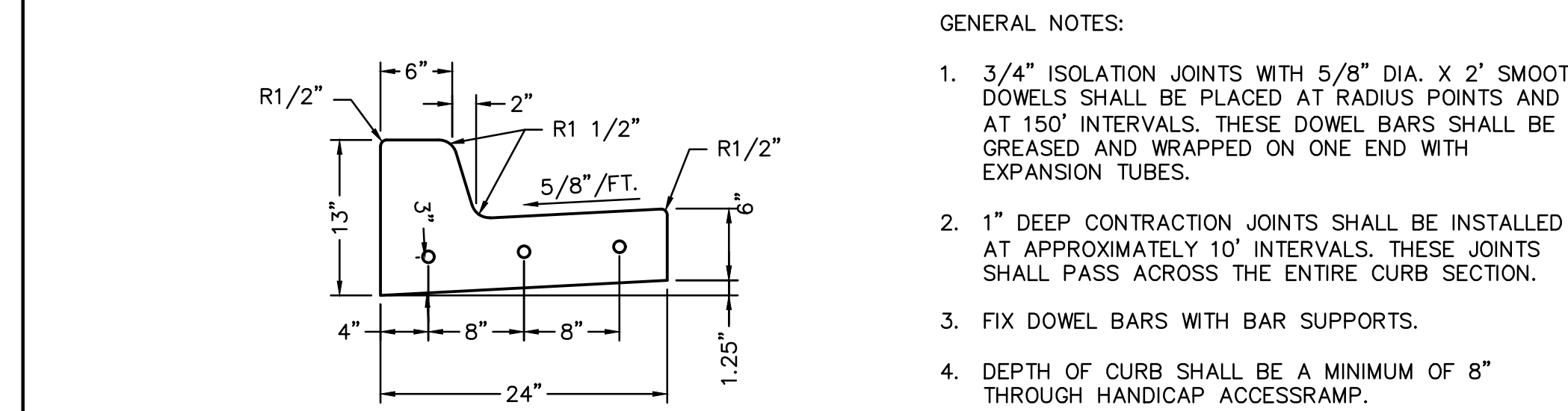
STANDARD DETAILS
PHASE 1/FINAL DEVELOPMENT PLAN
SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET
LEE'S SUMMIT, MISSOURI

2021

drawn by: OLSSON
checked by: ENG
approved by: ENG
QA/QC by: ENG
project no.: 021-04157
drawing no.: 02104157.dwg
date:

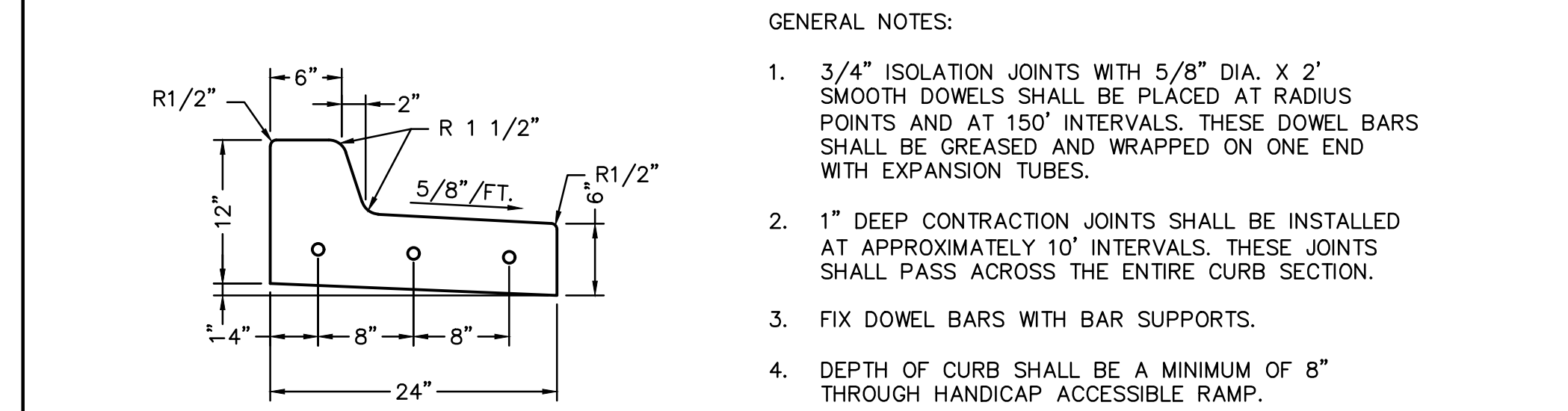
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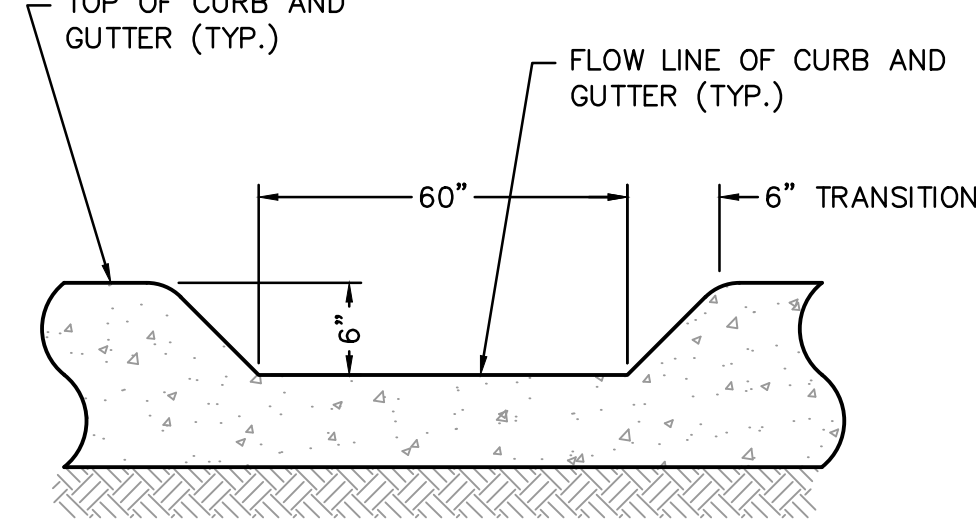
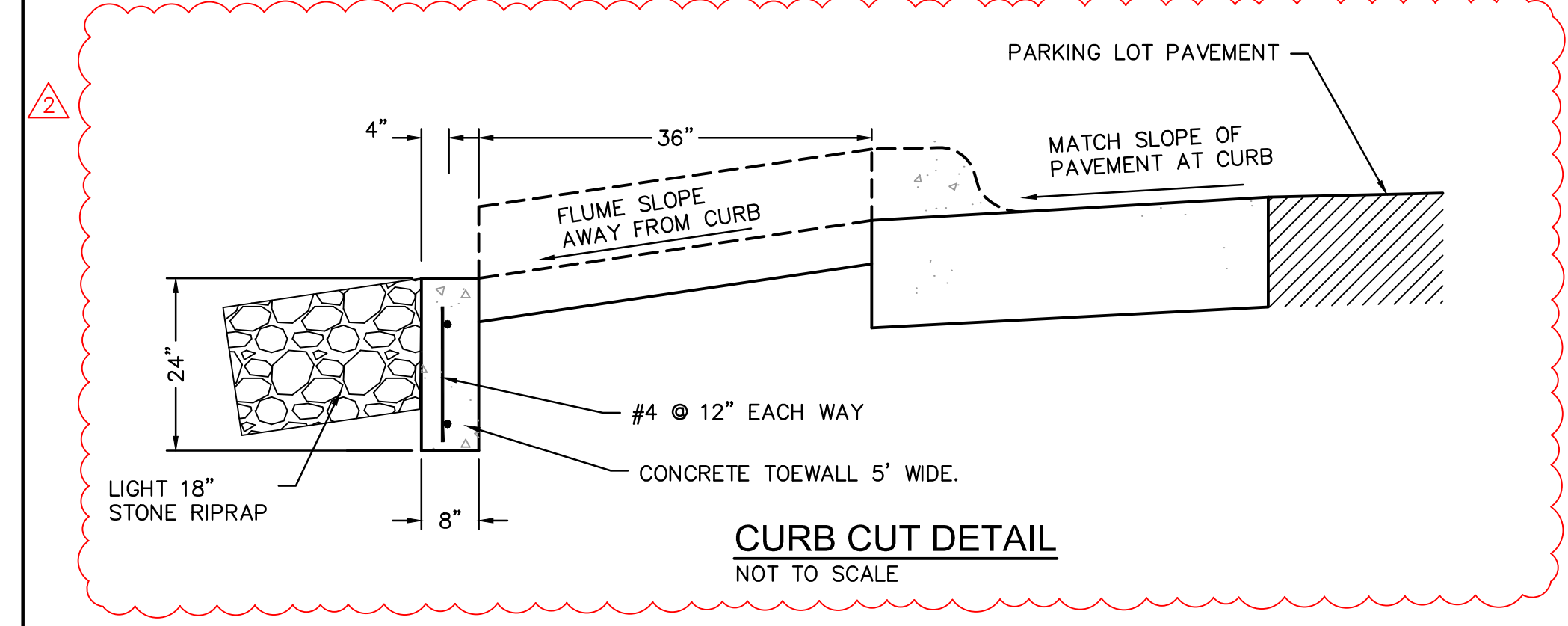
STRAIGHT BACK CURB & GUTTER

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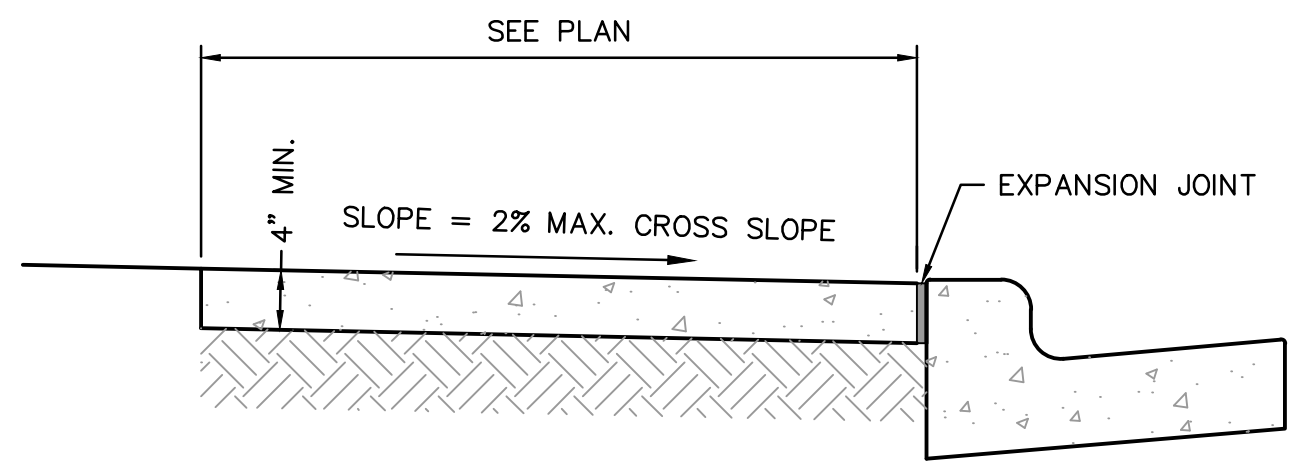


STRAIGHT BACK DRY CURB & GUTTER

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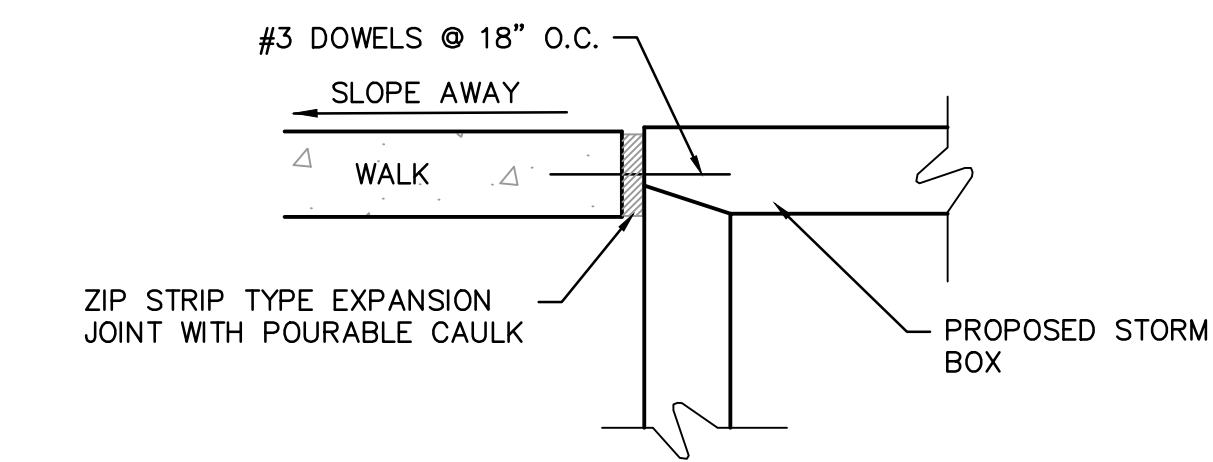


FRONT ELEVATION



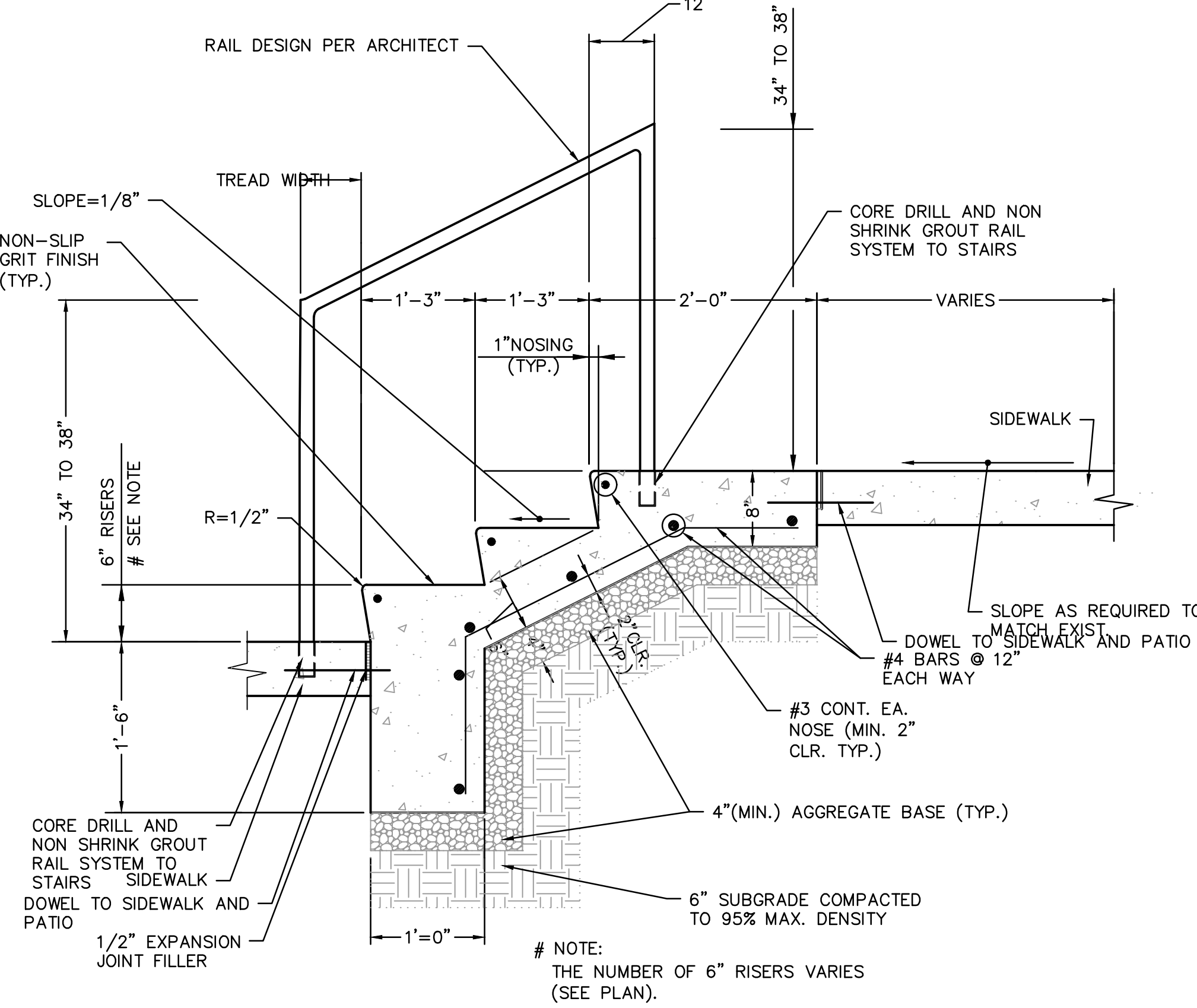
STANDARD CONCRETE WALK DETAIL

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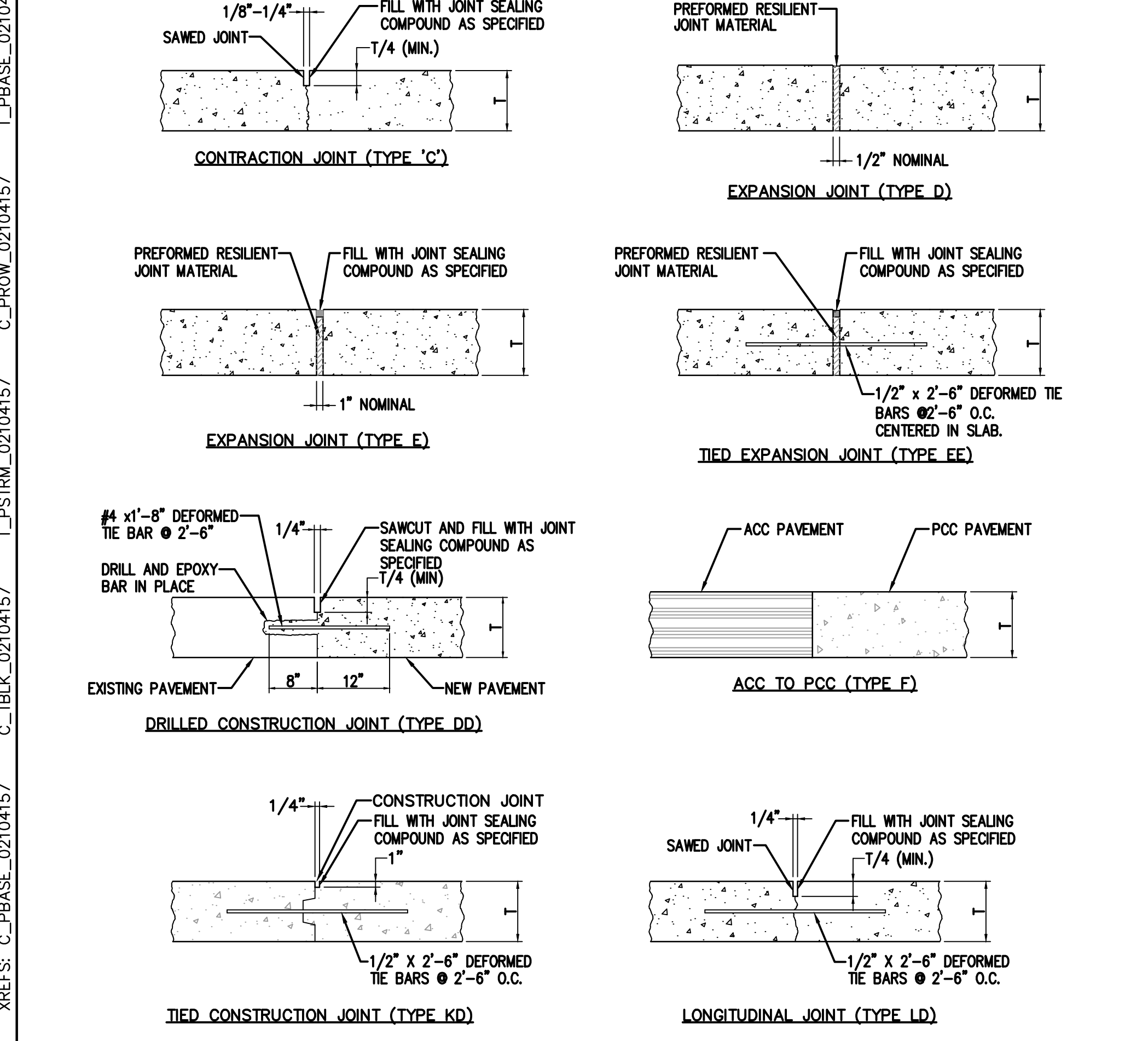


SIDEWALK TO STORM BOX CONNECTION DETAIL

NOT TO SCALE

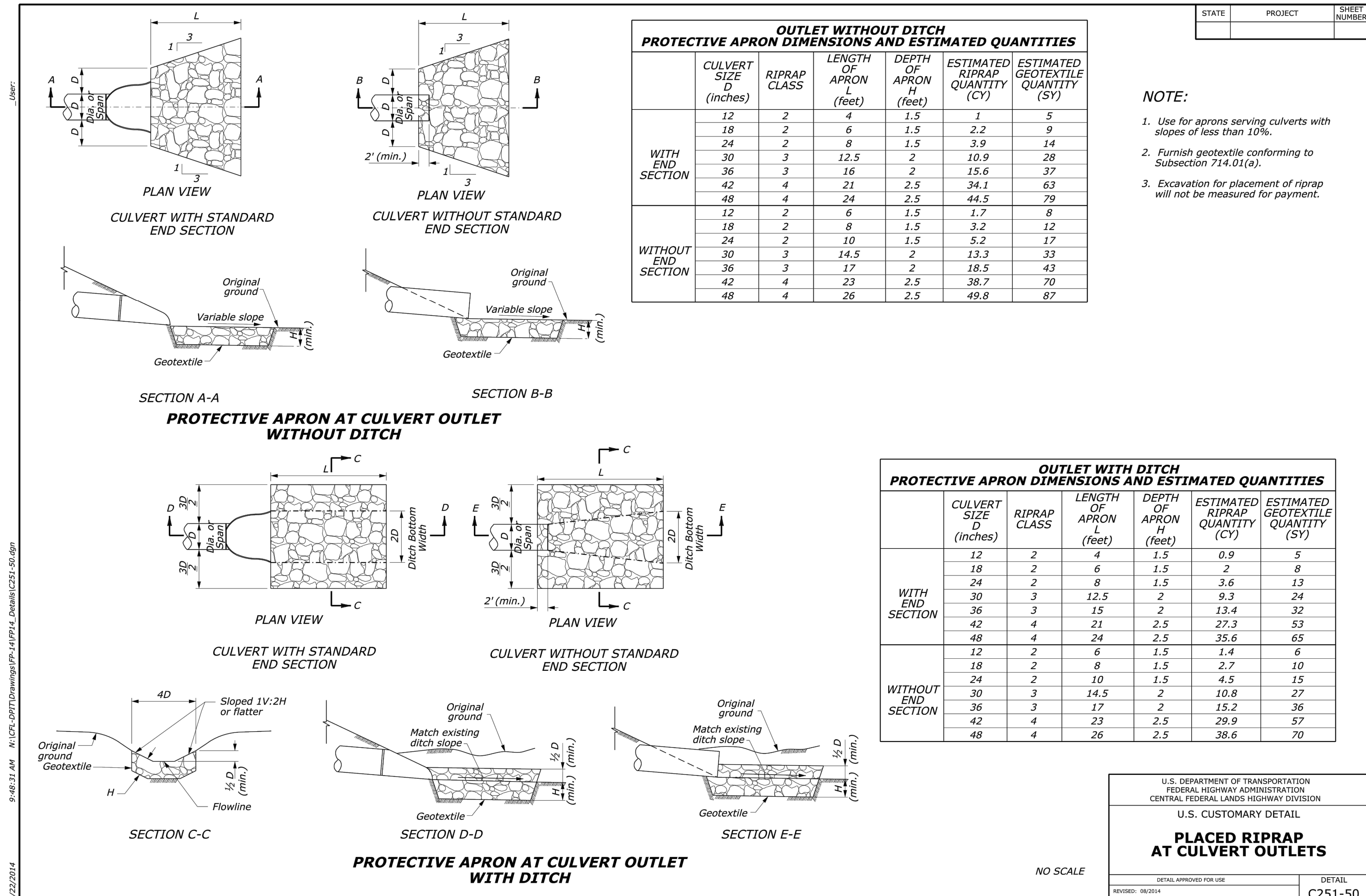


CONCRETE STAIR DETAIL

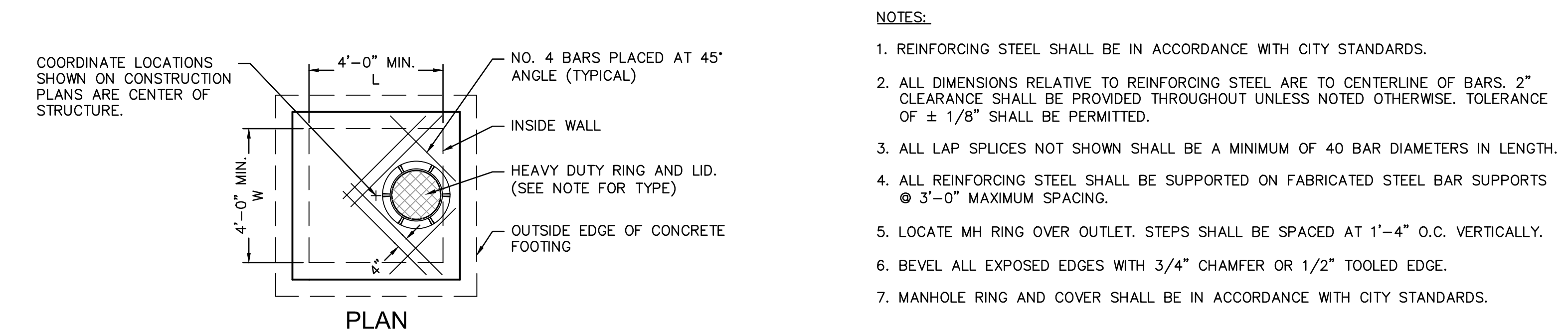
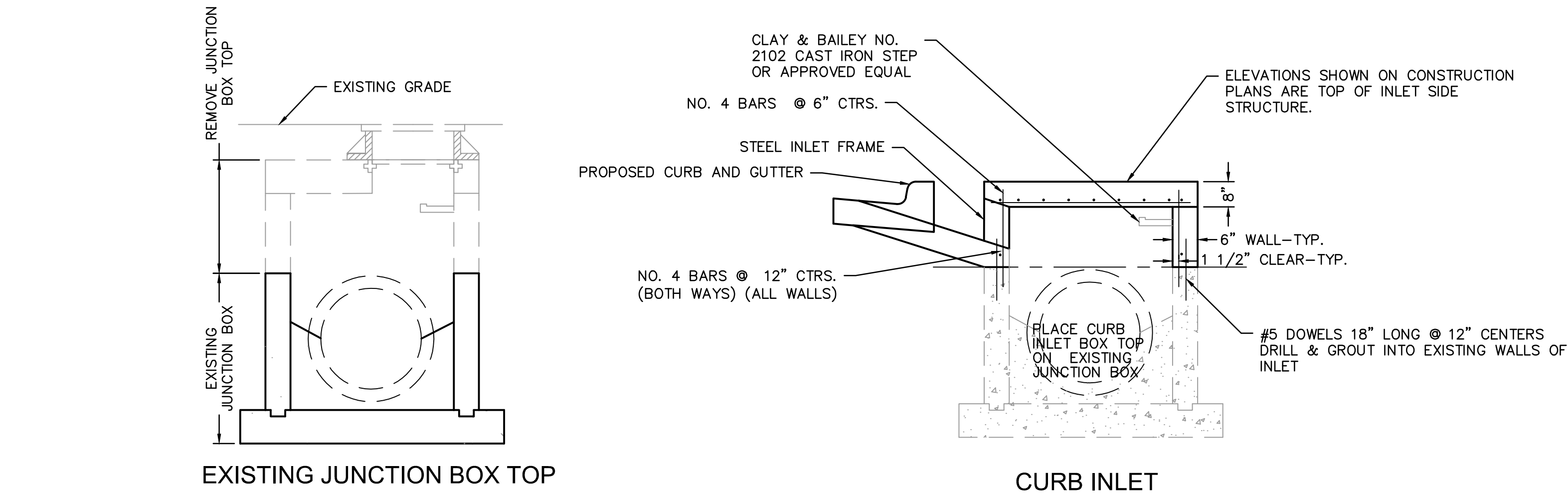
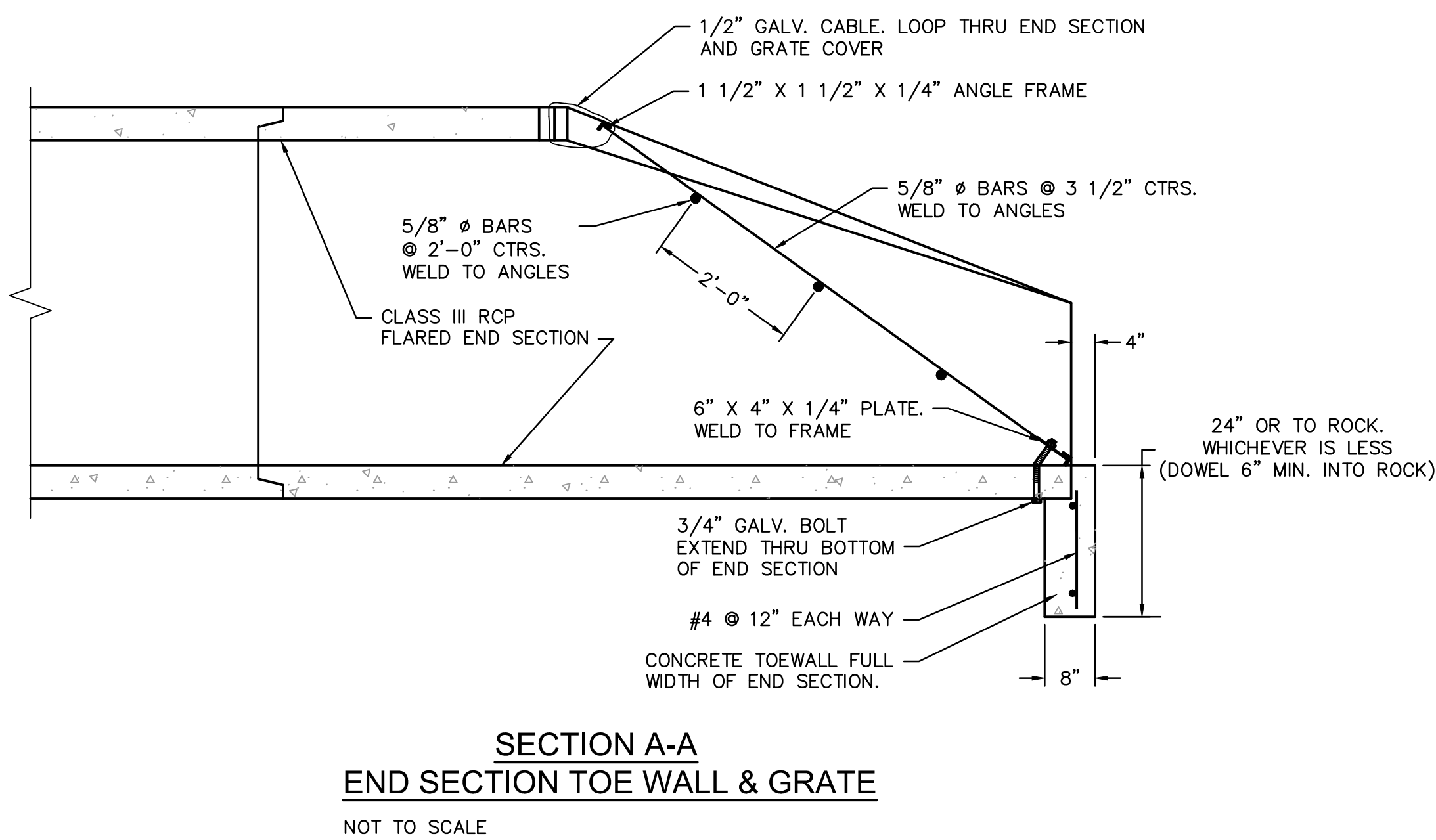
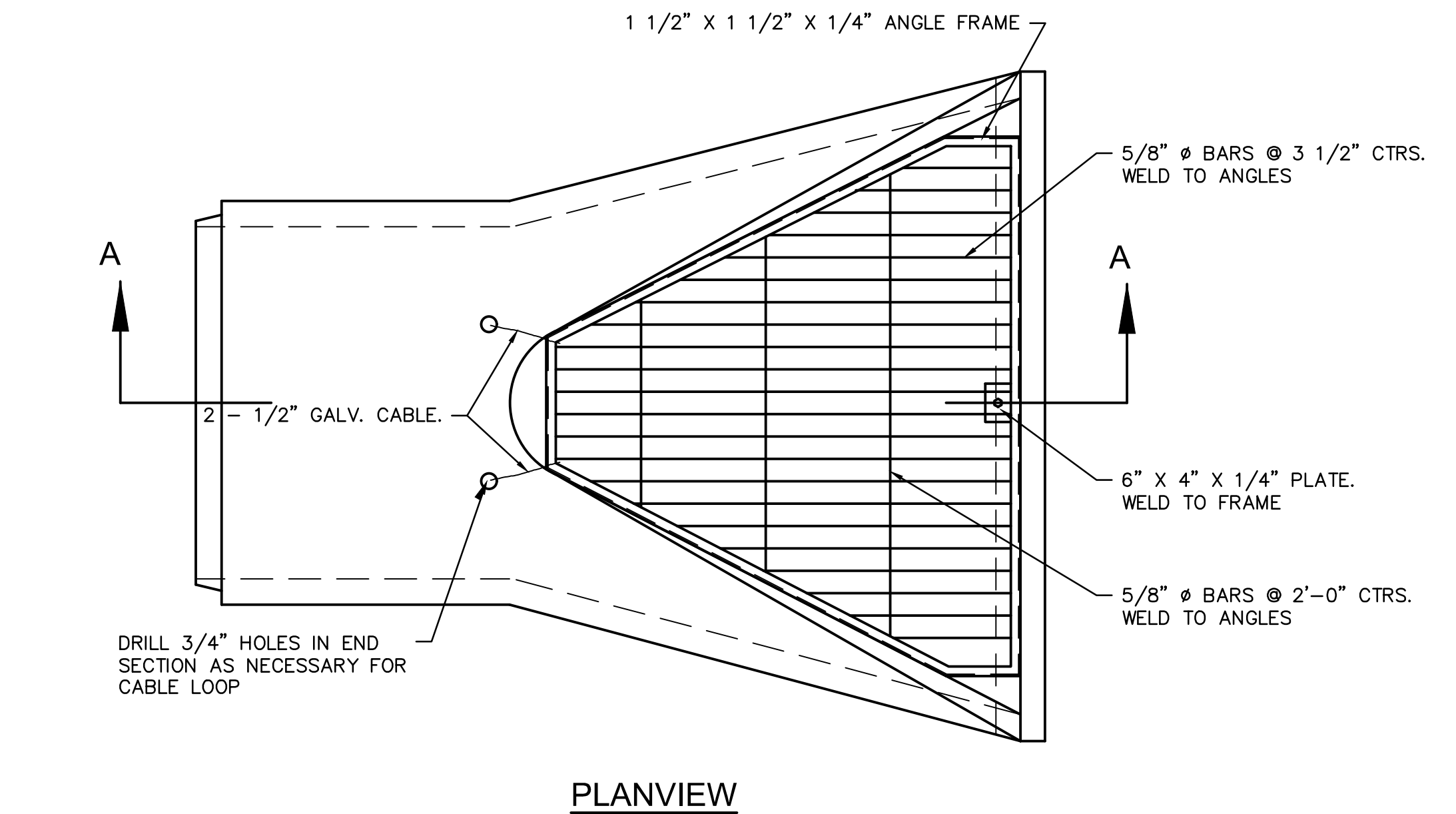


PAVEMENT JOINT DETAILS

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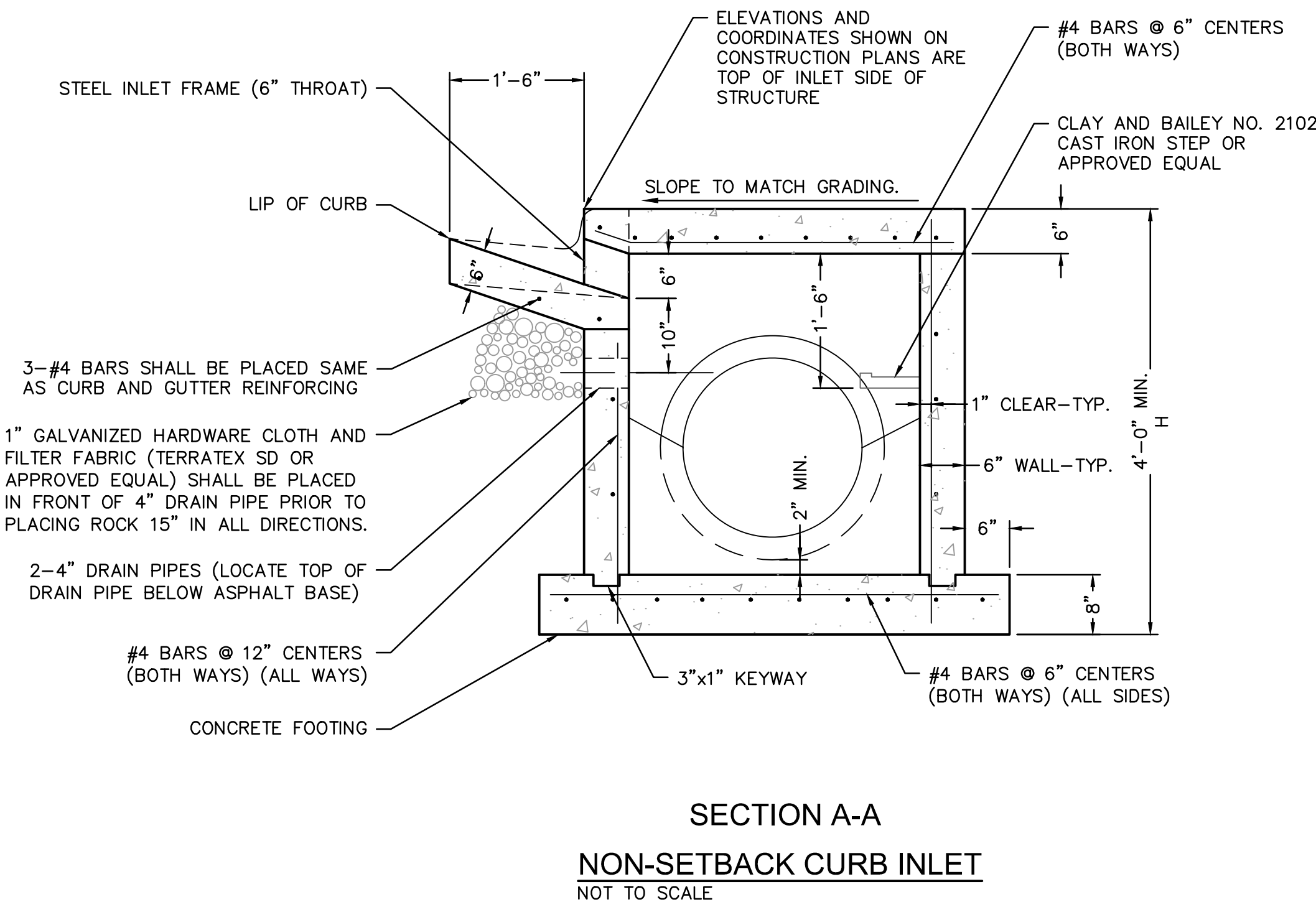
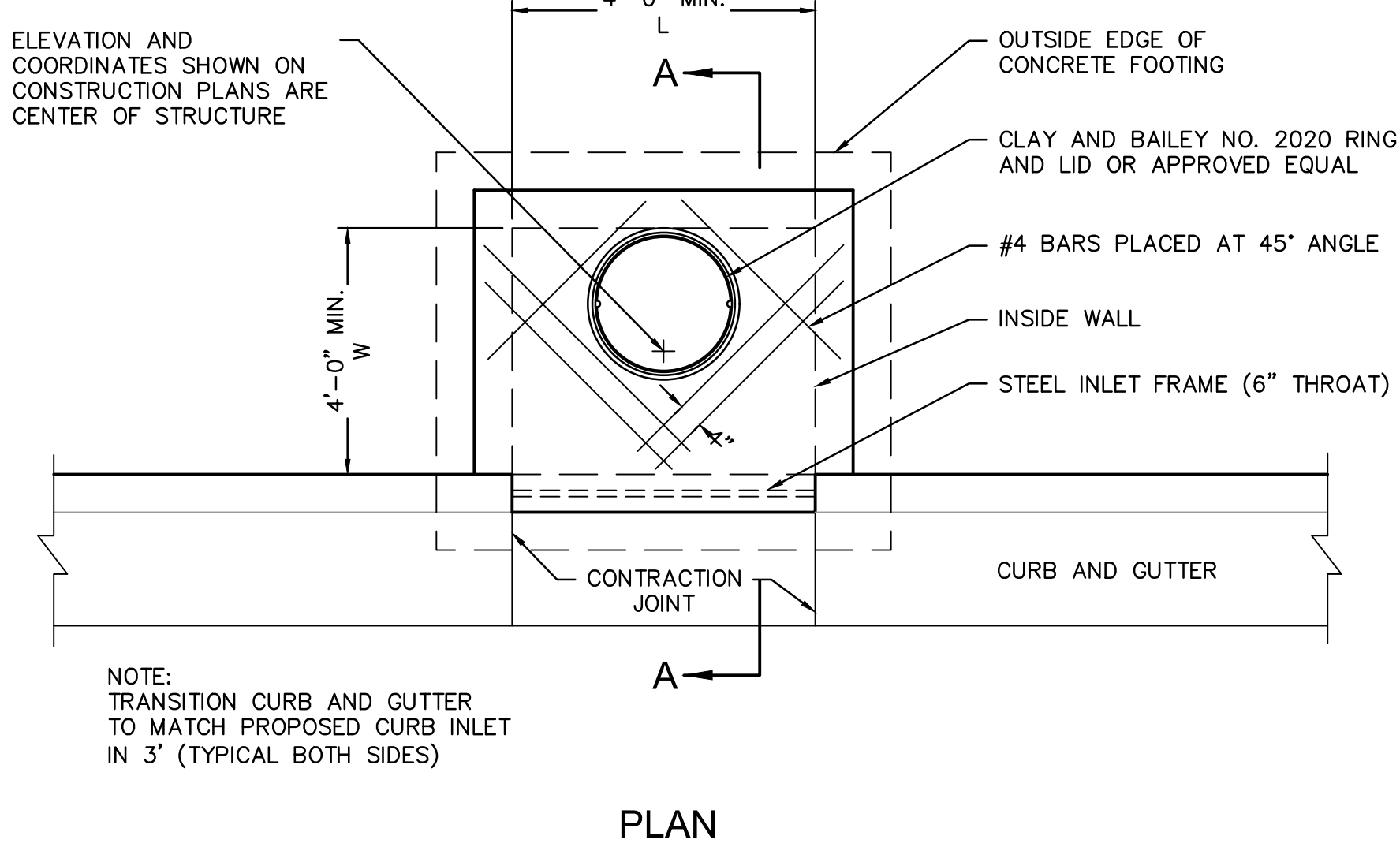


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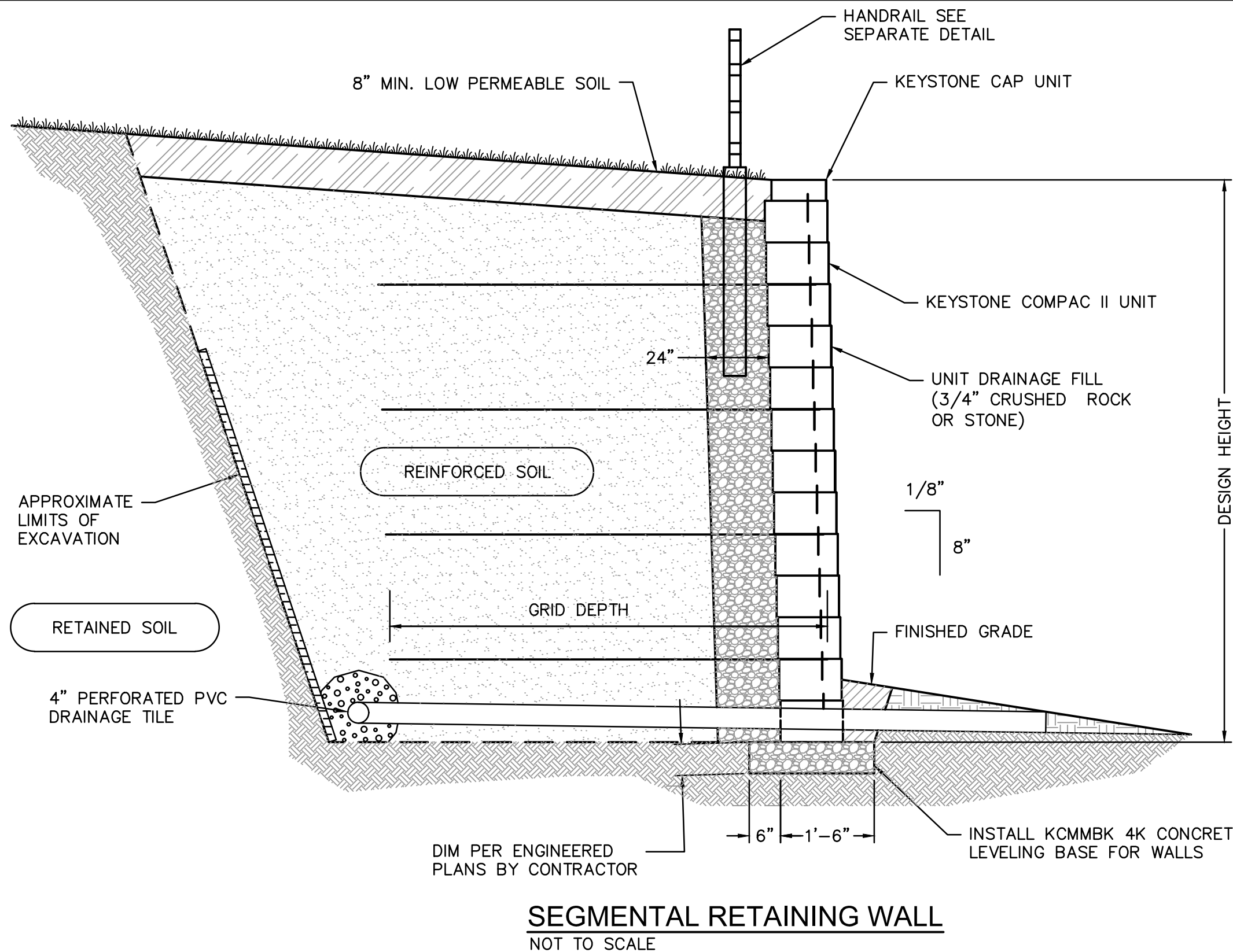
END SECTION NOTES

1. GRATE COVER DETAIL SHALL BE ADJUSTED AS NECESSARY TO FIT END SECTION PROVIDED.
2. MAXIMUM OPENING THRU END SECTION SHALL BE NO GREATER THAN 6". ADJUST DETAIL AS NECESSARY.
3. ALL METAL SURFACES SHALL BE HOT DIP ZINC COATED IN ACCORDANCE WITH ASTM A-123.
4. USE CITY APPROVED CONCRETE THROUGHOUT.
5. ALL CONCRETE AND MATERIALS USED IN THIS WORK SHALL MEET THE REQUIREMENTS OF THE GOVERNING BODY.
6. REINFORCING STEEL SHALL BE NEW BILLET, MINIMUM GRADE 40 AS PER ASTM A615, AND SHALL BE BENT COLD.
7. ALL DIMENSIONS RELATIVE TO REINFORCING STEEL ARE TO CENTERLINE OF BARS. 2" CLEARANCE SHALL BE PROVIDED THROUGHOUT UNLESS NOTED OTHERWISE. TOLERANCE OF $\pm 1/8"$ SHALL BE PERMITTED.
8. ALL LAP SPICES NOT SHOWN SHALL BE A MINIMUM OF 40 BAR DIAMETERS IN LENGTH.
9. ALL DOWELS SHALL BE ACCURATELY PLACED AND SECURELY TIED IN PLACE PRIOR TO PLACEMENT OF BOTTOM SLAB CONCRETE. STICKING OF DOWELS INTO FRESH OR PARTIALLY HARDENED CONCRETE WILL NOT BE ACCEPTABLE.
10. ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED STEEL BAR SUPPORTS $\phi 3'-0"$ MAXIMUM SPACING.
11. DO NOT SCALE THESE DRAWINGS FOR DIMENSIONS OR CLEARANCES. ANY QUESTIONS REGARDING DIMENSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION.



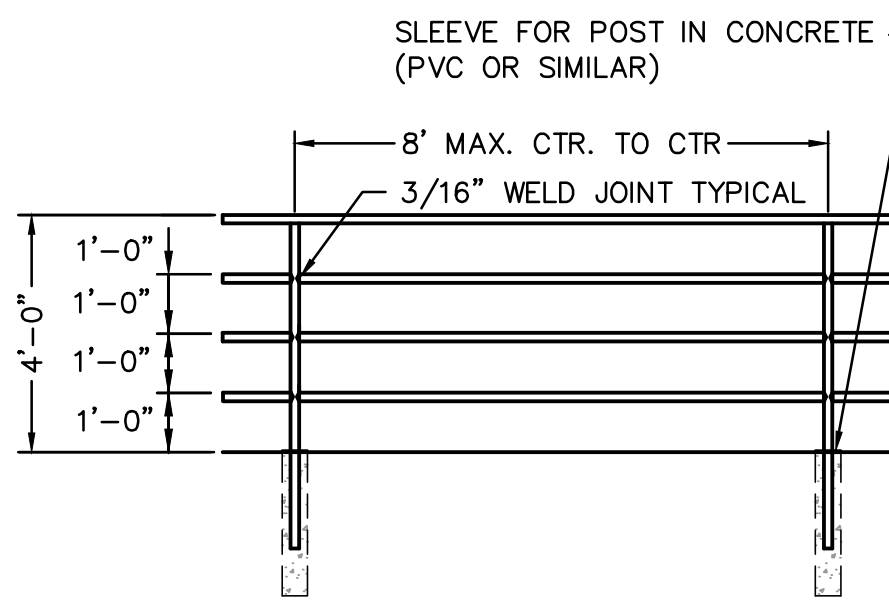
NON-SETBACK CURB INLET NOTES

1. USE CITY APPROVED CONCRETE THROUGHOUT.
2. THE FIRST DIMENSION LISTED IN THE CONSTRUCTION NOTES IS THE "L" DIMENSION. THE SECOND DIMENSION IS THE "W" DIMENSION.
3. FLOOR OF INLET SHALL BE SHAPED TO PROVIDE SMOOTH FLOW.
4. EXPANSION JOINTS SHALL BE EITHER HOT OR COLD POURED JOINT SEALING COMPOUND, OR PREMOULDED EXPANSION JOINT FILLER.
5. STEEL INLET FRAME SPACERS SHALL BE PLACED AT EQUAL SPACINGS NOT TO EXCEED 4'-0".
6. CAST IRON STEPS TO BE CLAY & BAILEY 2102 OR APPROVED EQUAL. STEEL CORE, PLASTIC COATED STEPS MAY BE USED (M.A. IND., INC. NO. PS1-PF, PS2-PF, OR APPROVED EQUAL). CAST IRON STEPS SHALL BE SPACED AT 1'-4" O.C. VERTICALLY.
7. BEVEL ALL EXPOSED EDGES WITH TRIANGULAR MOLDING.
8. ON-GRADE INLETS SHALL CONFORM TO THE STREET GRADE AND SUMP INLETS SHALL BE LEVEL.
9. ALL STORM SEWER STRUCTURES SHALL BE PRECAST. PRECAST SHOP DRAWINGS SHALL BE APPROVED BY THE DESIGN ENGINEER.
10. REINFORCING STEEL SHALL BE NEW BILLET, MINIMUM GRADE 40 AS PER ASTM A615, AND SHALL BE BENT COLD.
11. ALL DIMENSIONS RELATIVE TO REINFORCING STEEL ARE TO CENTERLINE OF BARS. 2" CLEARANCE SHALL BE PROVIDED THROUGHOUT UNLESS NOTED OTHERWISE. TOLERANCE OF $\pm 1/8"$ SHALL BE PERMITTED.
12. ALL LAP SPICES NOT SHOWN SHALL BE A MINIMUM OF 40 BAR DIAMETERS IN LENGTH.
13. ALL DOWELS SHALL BE ACCURATELY PLACED AND SECURELY TIED IN PLACE PRIOR TO PLACEMENT OF BOTTOM SLAB CONCRETE. STICKING OF DOWELS INTO FRESH OR PARTIALLY HARDENED CONCRETE WILL NOT BE ACCEPTABLE.
14. ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED STEEL BAR SUPPORTS $\phi 3'-0"$ MAXIMUM SPACING.
15. DO NOT SCALE THESE DRAWINGS FOR DIMENSIONS OR CLEARANCES. ANY QUESTIONS REGARDING DIMENSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION.
16. THE BOTTOM SLAB SHALL BE AT LEAST 24 HOURS OLD BEFORE PLACING SIDEWALL CONCRETE. ALL SIDEWALL FORMS SHALL REMAIN IN PLACE A MINIMUM OF 24 HOURS AFTER SIDEWALLS ARE POURED BEFORE REMOVAL, AND AFTER REMOVAL SHALL BE IMMEDIATELY TREATED WITH MEMBRANE CURING COMPOUND.
17. ALL CURB INLET TOPS ARE TO BE CONSTRUCTED AFTER FINAL CURB STRING LINE HAS BEEN APPROVED BY THE ENGINEER AND PRIOR TO CURB CONSTRUCTION, OR AS DIRECTED BY THE CITY ENGINEER.
18. RCP CONNECTIONS TO PRECAST STRUCTURE SHALL MEET ALL CITY STANDARDS.
19. BACKFILL AROUND STRUCTURES SHALL BE COMPACTED AND SHALL BE OF THE MATERIAL SPECIFIED PER CITY STANDARDS.
20. NON-SETBACK CURB INLET TO BE USED ONLY WITH THE APPROVAL OF THE CITY ENGINEER.



RETAINING WALL NOTES

1. RETAINING WALL SHALL BE "VERSA-LOK MOSAIC RETAINING WALL (NONWEATHERED) AND THE COLOR SHALL BE PALOMINO GRAY". THE DETAILS PROVIDED HERE ARE FOR GENERAL GUIDANCE ONLY. THE WALL SHALL BE "DESIGN-BUILD" PROVIDED COMPLETE IN-PLACE BY THE CONTRACTOR.
2. THE MODULAR WALL UNITS SHALL HAVE A STRAIGHT FACE WITH SPLIT FINISH TEXTURE. COLOR SHALL BE "PALOMINO GRAY".
3. THE WALL SHALL BE DESIGNED BY THE INSTALLER ACCORDING TO THE WALL UNIT MANUFACTURER'S DESIGN CRITERIA. THE DESIGN SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER AS A SHOP DRAWING FOR REVIEW. ALL DESIGN CALCULATIONS AND DESIGN CRITERIA, (ANGLE OF FRICTION, SOIL WEIGHT, ETC.), SHALL BE SUBMITTED WITH THE SHOP DRAWING. ALL DESIGN MUST BE SEALED BY A QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MISSOURI.
4. FACTORS OF SAFETY SHALL BE AS FOLLOWS:
1.5 AGAINST REINFORCEMENT GRID PULLOUT OR RUPTURE
1.5 AGAINST EXTERNAL SLIDING FAILURE
2.0 AGAINST OVERTURNING
5. THE DESIGN, DIMENSIONS, AND MATERIAL SHOWN IN THIS DETAIL ARE GENERAL IN NATURE. THE AGGREGATE MATERIALS, GEGRID SYSTEM, AND INSTALLATION SHALL BE AS WALL UNIT MANUFACTURER'S REQUIREMENTS.
6. SEE SPECIFICATIONS FOR MATERIAL SELECTION AND OTHER REQUIREMENTS.
7. WALL DESIGN SHALL INCLUDE GLOBAL STABILITY.
8. RETAINING WALL SHALL PROVIDE POSITIVE INTERLOCKING BETWEEN BLOCKS AND GRID.



- NOTES:
1. ALL RAILING SHALL BE 2" SQUARE STEEL PIPE.
 2. ALL EXPOSED STEEL SHALL BE PRIMED WITH ZINC OXIDE PAINT AND PAINTED WITH TWO COAT OF HIGH GLOSS EXTERIOR DARK BROWN PAINT. SUBMIT SAMPLE TO ARCHITECT PRIOR TO PAINTING FOR APPROVAL.
 3. SPACING AND LOCATION AS SHOWN ON DETAILS.
 4. SPACING OF VERTICAL POSTS SHALL BE EQUAL THROUGHOUT EACH SECTION OF THE HANDRAIL.

METAL PIPE HANDRAIL DETAIL

NOT TO SCALE

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Overland Park, KS 66213-4756
TEL 913.381.1170
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SCANNELL

PROPERTIES

STATE OF MISSOURI

MITCHELL ALAN
FEK
NUMBER
PE-2008010104
03-15-12

REV	DATE	DESCRIPTION	BY
1	12/24/2021	CITY COMMENTS	
2	01/03/2022	CITY COMMENTS	
3	01/03/2022	CITY COMMENTS	
4	02/24/2022	CITY COMMENTS	

STANDARD DETAILS

PHASE I/FINAL DEVELOPMENT PLAN

SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET
LEE'S SUMMIT, MISSOURI

2021

REVISIONS

drawn by: OLSSON

checked by: ENG

approved by: ENG

QA/QC by: ENG

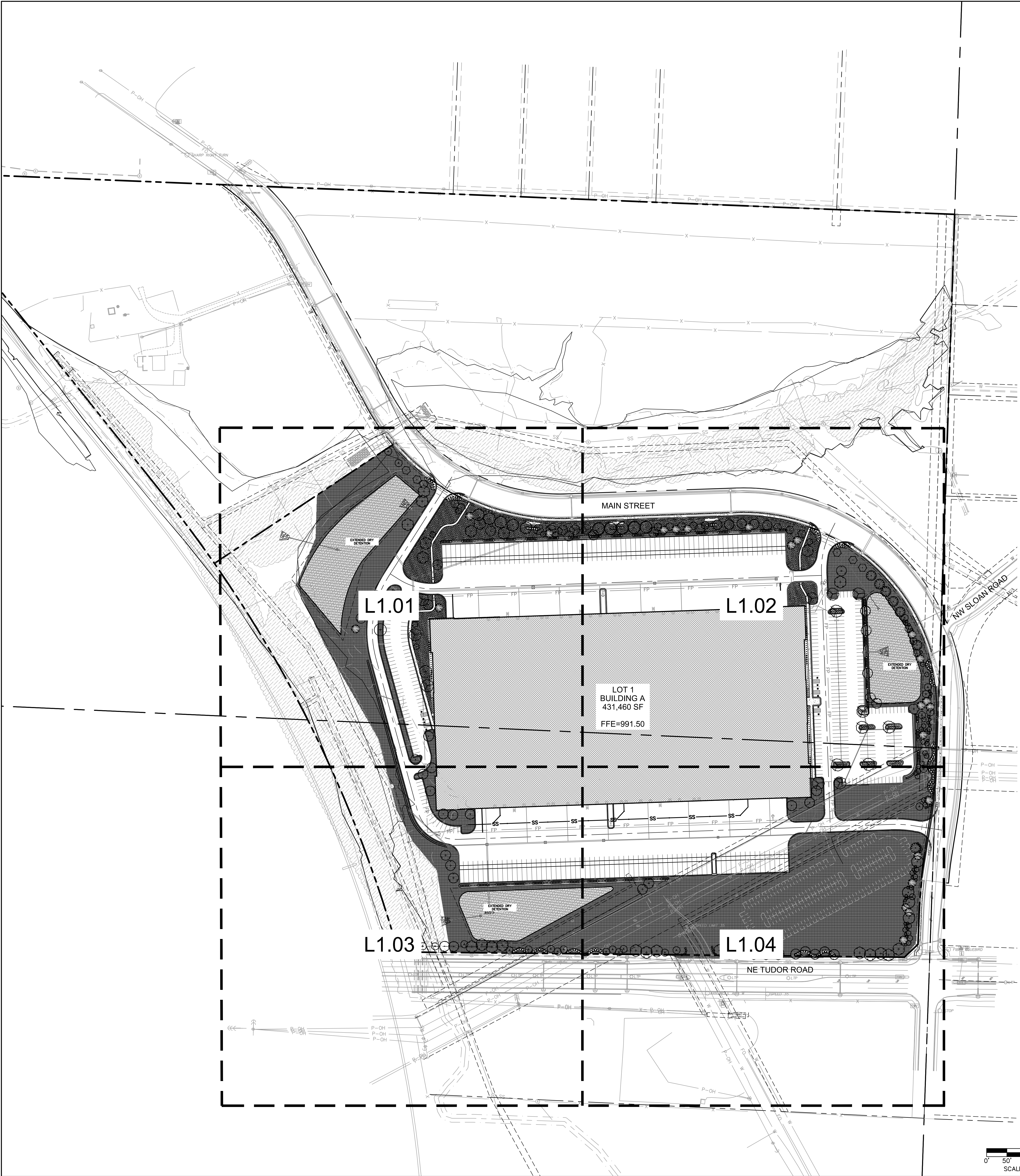
project no.: 021-04157

drawing no.: 02104157.dwg

date:

SHEET

C8.02



LANDSCAPE CALCULATIONS - LOT 1

OPEN YARD AREAS
1 TREE AND 2 SHRUBS PER 5,000 SF OF TOTAL LOT AREA EXCLUDING BUILDING FOOTPRINT AREA AND TRACTS.
1,008,818 SF / 5,000 SF
201.76 TREES REQUIRED
77 TREES PROVIDED
**SEE PLAN FOR EXISTING TREE MASSES TO REMAIN
403.5 SHRUBS REQUIRED
469 SHRUBS PROVIDED

STREET FRONTAGE REQUIREMENT
MAIN STREET (SOUTH SIDE)
1,334 LF
1 TREE / 30' OF STREET FRONTAGE
44.46 TREES REQUIRED
44 TREES PROVIDED
1 SHRUB PER 20' OF STREET FRONTAGE
67 SHRUBS REQUIRED
67 SHRUBS PROVIDED

TUDOR ROAD
1,215 LF
1 TREE / 30' OF STREET FRONTAGE
40 TREES REQUIRED
40 TREES PROVIDED
1 SHRUB PER 20' OF STREET FRONTAGE
60 SHRUBS REQUIRED
60 SHRUBS PROVIDED

BUFFER-EAST SIDE
ALONG ABUTTING LAND USES REQUIRES MEDIUM IMPACT SCREENING.
1 SHADE TREE / 1,000 SF
12 SHADE TREES REQUIRED
6 SHADE TREES PROVIDED
1 ORNAMENTAL TREE / 500 SF
24 ORNAMENTAL TREES REQUIRED
37 ORNAMENTAL TREES PROVIDED
1 EVERGREEN TREE / 300 SF
40 EVERGREEN TREES REQUIRED
43 EVERGREEN TREES PROVIDED
1 SHRUB / 200 SF
60 SHRUBS REQUIRED
67 SHRUBS PROVIDED
** ADJUSTMENTS MADE DUE TO OVERHEAD POWERLINES

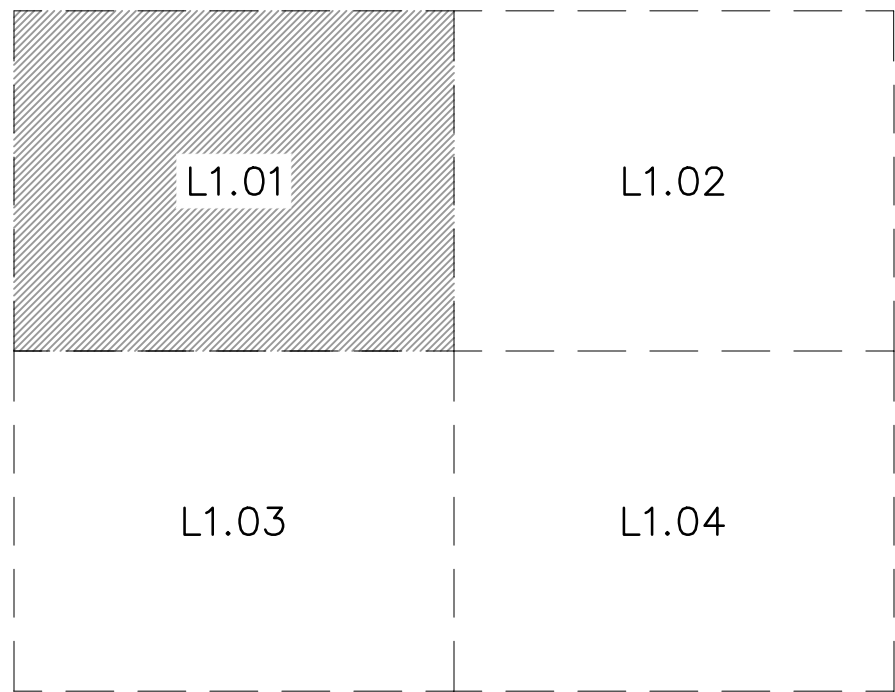
PLANT SCHEDULE					
DECIDUOUS TREES	BOTANICAL / COMMON NAME	SIZE	CALIPER		QTY
	ACER MIYABEI 'STATE STREET' MIYABEI MAPLE	B & B	3"		9
	EUCOMMIA ULMOIDES HARDY RUBBER TREE	B & B	3"		12
	GINKGO BILOBA 'PRINCETON SENTRY' PRINCETON SENTRY GINKGO	B & B	3"		5
	GLEDITSIA TRIACANTHOS INERMIS 'SHADEMASTER' SHADEMASTER LOCUST	B & B	3"		14
	PLATANUS X ACERIFOLIA 'EXCLAMATION' TM EXCLAMATION LONDON PLANE TREE	B & B	3"		29
	QUERCUS BICOLOR SWAMP WHITE OAK	B & B	3"		5
	QUERCUS MACROCARPA BURR OAK	B & B	3"		3
	QUERCUS SHUMARDII SHUMARD RED OAK	B & B	3"		26
	TAXODIUM DISTICHUM 'SHAWNEE BRAVE' TM BALD CYPRESS	B & B	3"		5
	TILIA AMERICANA 'BOULEVARD' BOULEVARD LINDEN	B & B	3"		5
	ULMUS PROPINQUA 'EMERALD SUNSHINE' EMERALD SUNSHINE ELM	B & B	3"		7
	ZELKOVA SERRATA 'MUSASHINO' SAWLEAF ZELKOVA	B & B	3"		11
EVERGREEN TREES	BOTANICAL / COMMON NAME	SIZE	CALIPER		QTY
	JUNIPERUS VIRGINIANA 'CANAERTII' CANAERTII JUNIPER	B&B, 8' HT.			32
	PICEA ABIES NORWAY SPRUCE	B&B, 8' HT.			22
ORNAMENTAL TREES	BOTANICAL / COMMON NAME	SIZE	CALIPER		QTY
	ACER TATARICUM 'HOT WINGS' HOT WINGS TATARIAN MAPLE	B&B, 8' HT.			2
	AMELANCHIER CANADENSIS 'AUTUMN BRILLIANCE' AUTUMN BRILLIANCE SERVICEBERRY	B & B	3"		25
	CERCIS CANADENSIS EASTERN REDBUD	B & B	3"		26
	MALUS X 'PRAIRIFIRE' PRAIRIFIRE CRABAPPLE	B & B	3"		8
SHRUBS	BOTANICAL / COMMON NAME	SIZE			
	BUXUS X 'GREEN VELVET' BOXWOOD	5 GAL			22
	CORNUS STOLONIFERA 'FARROW' TM ARCTIC FIRE RED TWIG DOGWOOD	5 GAL			45
	DIERVILLA RIVULARIS 'KODIAK ORANGE' KODIAK ORANGE BUSH-HONEYSUCKLE	5 GAL			58
	JUNIPERUS CHINENSIS 'GOLD LACE' GOLD LACE JUNIPER	5 GAL			67
	JUNIPERUS CHINENSIS 'SEA GREEN' SEA GREEN JUNIPER	5 GAL			358
	PANICUM VIRGATUM 'NORTH WIND' NORTHWIND SWITCH GRASS	1 GAL			80
	RHUS AROMATICA 'GRO-LOW' GRO-LOW FRAGRANT SUMAC	5 GAL			72
	VIBURNUM LANTANA 'MOHICAN' MOHICAN WAYFARING TREE	5 GAL			55
	VIBURNUM NUDUM 'WINTERHUR' WINTERHUR VIBURNUM	5 GAL			110
GROUND COVERS	BOTANICAL / COMMON NAME	CONT		SPACING	
	FESTUCA TURF TYPE TALL FESCUE BLEND	SEED			507,237 SF
	FESTUCA TURF TYPE TALL FESCUE BLEND	SOD			71,349 SF
NATIVE VEGETATION	BOTANICAL / COMMON NAME	CONT		SPACING	
	PANICUM VIRGATUM SWITCH GRASS	SEED			99,023 SF



PLANT SCHEDULE L1.01		
DECIDUOUS TREES	BOTANICAL / COMMON NAME	QTY
	ACER MIYABEI 'STATE STREET' MIYABEI MAPLE	5
	EUCOMMIA ULMOIDES HARDY RUBBER TREE	3
	GLEDITSIA TRIACANTHOS INERMIS 'SHADEMASTER' SHADEMASTER LOCUST	3
	PLATANUS X ACERIFOLIA 'EXCLAMATION' TM EXCLAMATION LONDON PLANE TREE	8
	QUERCUS MACROCARPA BURRR OAK	3
	QUERCUS SHUMARDII SHUMARD RED OAK	4
	TILIA AMERICANA 'BOULEVARD' BOULEVARD LINDEN	4
	ZELKOVA SERRATA 'MUSASHINO' SAWLEAF ZELKOVA	5
EVERGREEN TREES	BOTANICAL / COMMON NAME	QTY
	PICEA ABIES NORWAY SPRUCE	4
ORNAMENTAL TREES	BOTANICAL / COMMON NAME	QTY
	CERCIS CANADENSIS EASTERN REDBUD	2
	MALUS X 'PRAIRIFIRE' PRAIRIFIRE CRABAPPLE	7
SHRUBS	BOTANICAL / COMMON NAME	QTY
	BUXUS X 'GREEN VELVET' BOXWOOD	12
	DIERVILLA RIVULARIS 'KODIAK ORANGE' KODIAK ORANGE BUSH-HONEYSUCKLE	24
	JUNIPERUS CHINENSIS 'GOLD LACE' GOLD LACE JUNIPER	12
	JUNIPERUS CHINENSIS 'SEA GREEN' SEA GREEN JUNIPER	54
	PANICUM VIRGATUM 'NORTH WIND' NORTHWIND SWITCH GRASS	29
	VIBURNUM NUDUM 'WINTERTHUR' WINTERTHUR VIBURNUM	44
GROUND COVERS	BOTANICAL / COMMON NAME	SEED
	FESTUCA TURF TYPE TALL FESCUE BLEND	
	FESTUCA TURF TYPE TALL FESCUE BLEND	SOD
NATIVE VEGETATION	BOTANICAL / COMMON NAME	QTY
	PANICUM VIRGATUM SWITCH GRASS	40,043 SF

SEE SHEET L1.0 FOR COMPLETE PLANT SCHEDULE FOR SIZE AND TOTAL QUANTITIES.

NOTE: ALL EQUIPMENT MUST BE SCREENED WHETHER OR NOT INDICATED ON PLANS. FIELD ADJUSTMENTS MAY BE NECESSARY TO ACCOMMODATE SITE CONDITIONS EQUIPMENT AND LANDSCAPE. COORDINATE WITH LANDSCAPE ARCHITECT FOR ADEQUATE SCREENING. MUST MEET CITY REQUIREMENTS.



KEY MAP
NOT TO SCALE



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MATCHLINE
SEE SHEET L103

EXISTING VEGETATION TO REMAIN, TYP.

7301 West 133rd Street, Suite 200
Overland Park, KS 66213-7756
TEL 913.381.1170 www.olsson.com

SCANNELL PROPERTIES

SCOTT E. SCANNELL
PROFESSIONAL ENGINEER
STATE OF MISSOURI
LICENSE NO. 21876

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	12.28.2021	CITY COMMENTS	
2	01.05.2022	CITY & ENGINEER CHANGES	
3	02.03.2022	CITY & ENGINEER COMMENTS	
4	02.24.2022	CITY COMMENTS	

LANDSCAPE PLAN
PHASE 1/FINAL DEVELOPMENT PLAN
SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET
LEE'S SUMMIT, MISSOURI

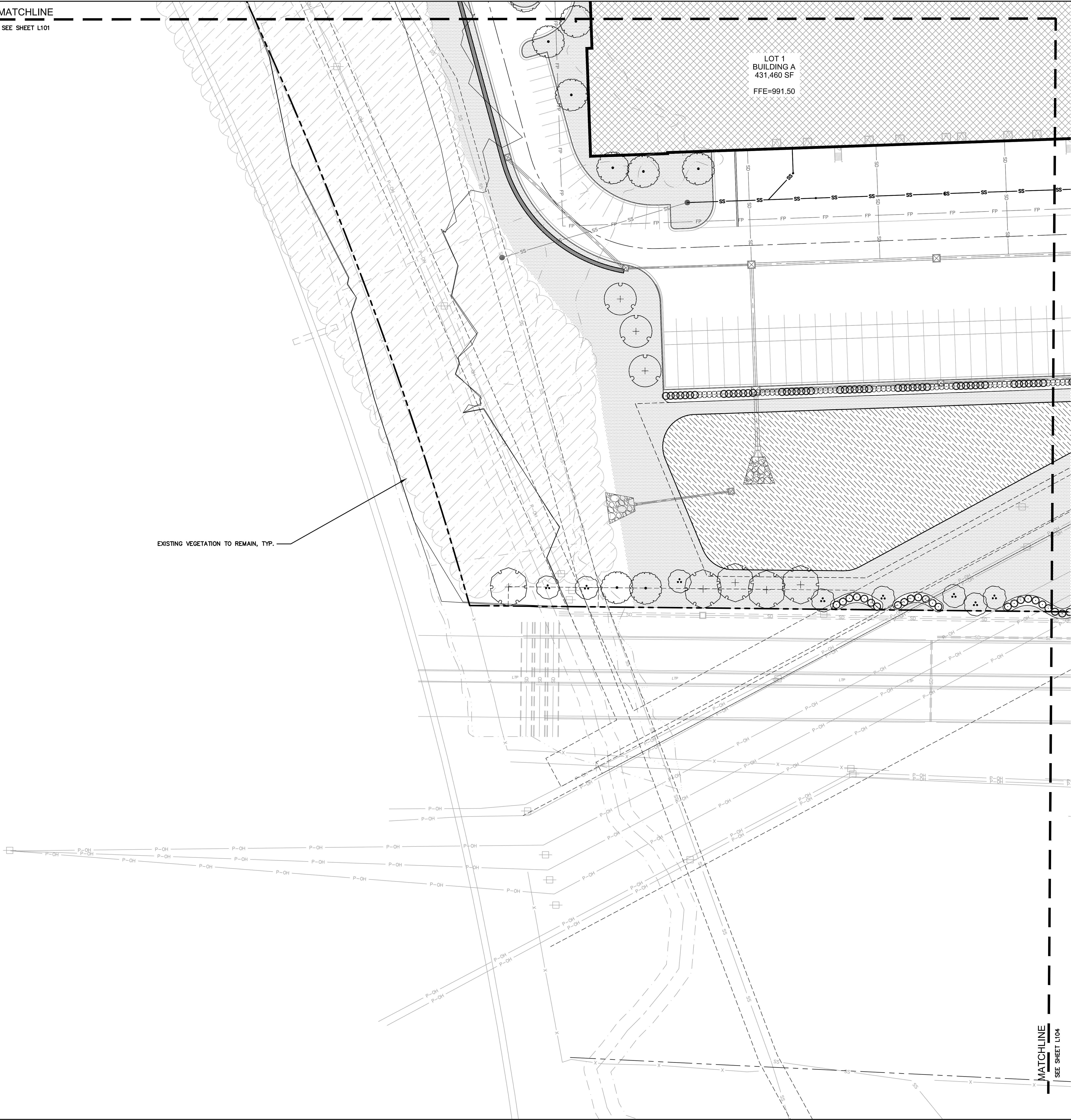
2021

SHEET
L1.01

drawn by: OLSSON
checked by: ENG
approved by: ENG
QA/QC by: ENG
project no.: 021-04157
drawing no.: 021-SG02_02104157.dwg
date:

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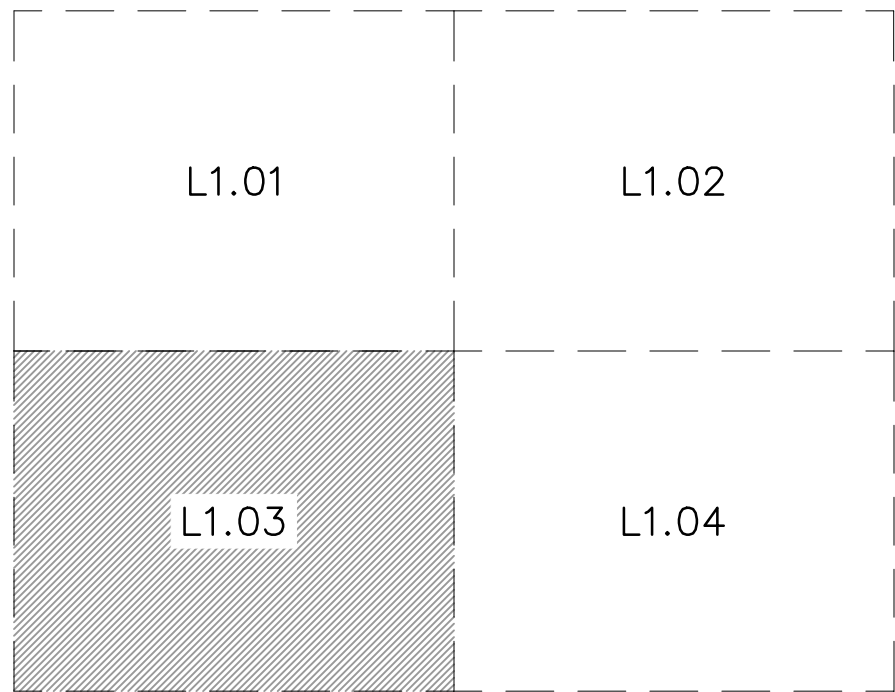
MATCHLINE
SEE SHEET L101



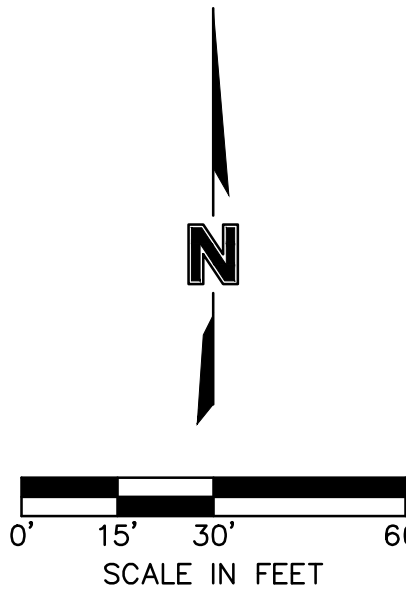
PLANT SCHEDULE L1.03		
DECIDUOUS TREES	BOTANICAL / COMMON NAME	QTY
	EUCOMMIA ULMOIDES HARDY RUBBER TREE	2
	PLATANUS X ACERIFOLIA 'EXCLAMATION' TM EXCLAMATION LONDON PLANE TREE	5
	QUERCUS SHUMARDII SHUMARD RED OAK	6
ORNAMENTAL TREES	BOTANICAL / COMMON NAME	QTY
	CERCIS CANADENSIS EASTERN REDBUD	8
SHRUBS	BOTANICAL / COMMON NAME	QTY
	JUNIPERUS CHINENSIS 'SEA GREEN' SEA GREEN JUNIPER	71
	VIBURNUM LANTANA 'MOHICAN' MOHICAN WAYFARING TREE	32
GROUND COVERS	BOTANICAL / COMMON NAME	SEED
	FESTUCA TURF TYPE TALL FESCUE BLEND	
NATIVE VEGETATION	BOTANICAL / COMMON NAME	QTY
	PANICUM VIRGATUM SWITCH GRASS	31,776 SF

SEE SHEET L1.0 FOR COMPLETE PLANT SCHEDULE FOR SIZE AND TOTAL QUANTITIES.

NOTE: ALL EQUIPMENT MUST BE SCREENED WHETHER OR NOT INDICATED ON PLANS. FIELD ADJUSTMENTS MAY BE NECESSARY TO ACCOMMODATE SITE CONDITIONS EQUIPMENT AND LANDSCAPE. COORDINATE WITH LANDSCAPE ARCHITECT FOR ADEQUATE SCREENING. MUST MEET CITY REQUIREMENTS.



KEY MAP
NOT TO SCALE



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SCANNELL
PROPERTIES

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	12.28.2021	CITY COMMENTS	
2	01.05.2022	CITY COMMENTS AND OWNER CHANGES	
3	03.03.2022	CITY & OWNER COMMENTS	
4	03.24.2022	CITY COMMENTS	

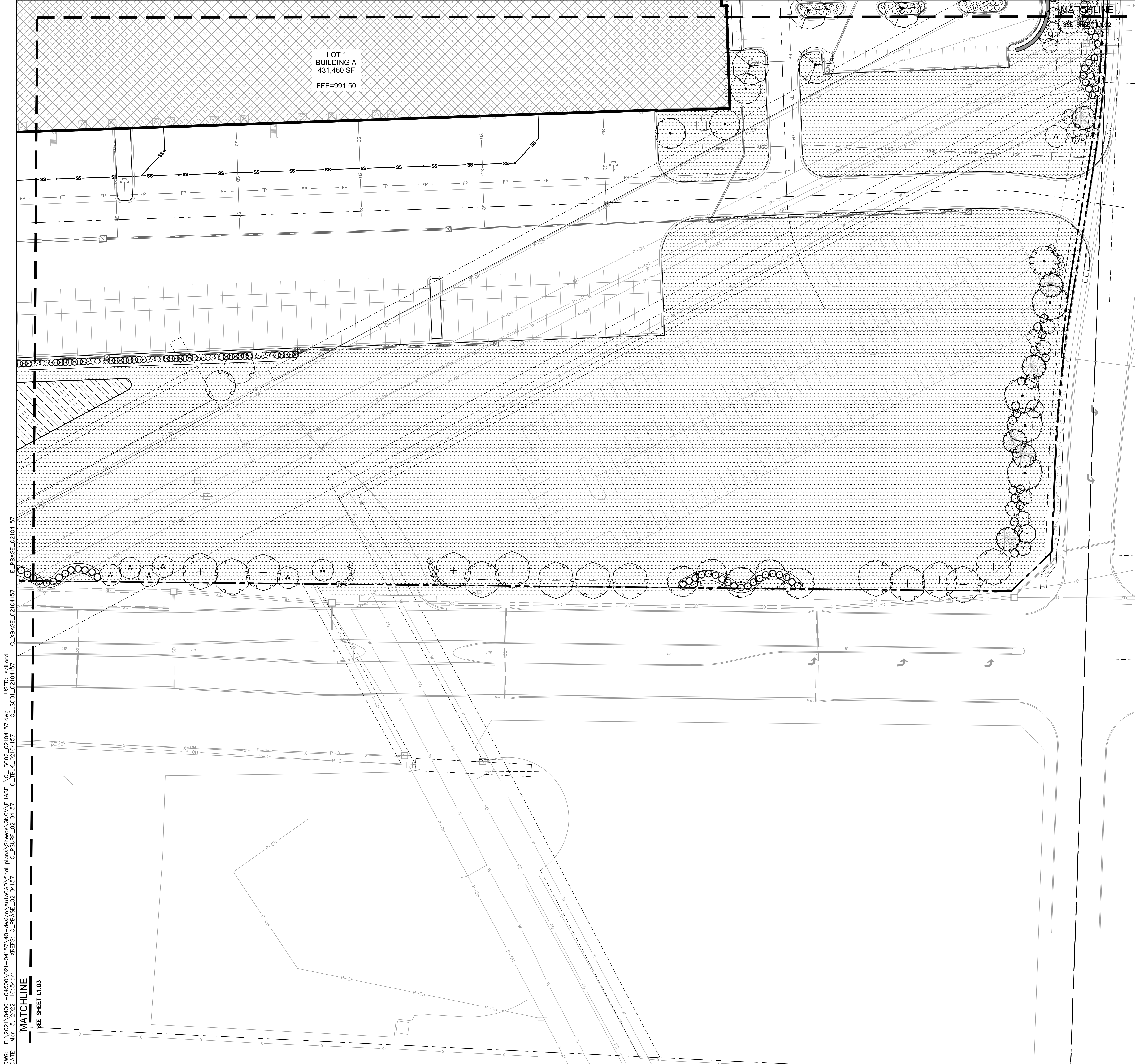
LANDSCAPE PLAN
PHASE I FINAL DEVELOPMENT PLAN

SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET
LEE'S SUMMIT, MISSOURI

2021

drawn by: OLSSON
checked by: ENG
approved by: ENG
QA/QC by: ENG
project no.: 021-04157
drawing no.: 021-04157
date: 02-15-2022

SHEET
L1.03



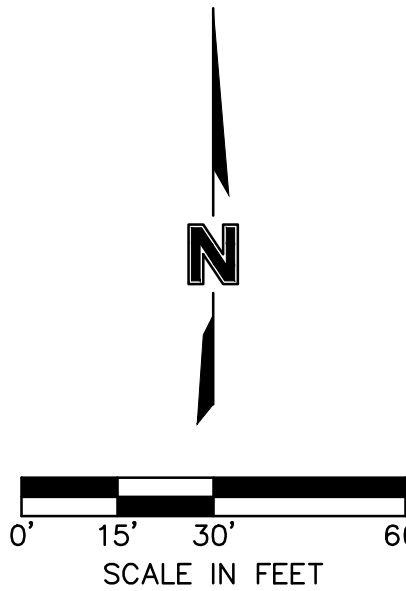
LOT 1
BUILDING A
431,460 SF
FFE=991.50

PLANT SCHEDULE L1.04		
DECIDUOUS TREES	BOTANICAL / COMMON NAME	QTY
	ACER MIYABEI 'STATE STREET' MIYABEI MAPLE	4
	EUCOMMIA ULMOIDES HARDY RUBBER TREE	3
	GLEDITSIA TRIACANTHOS INERMIS 'SHADEMASTER' SHADEMASTER LOCUST	2
	PLATANUS X ACERIFOLIA 'EXCLAMATION' TM EXCLAMATION LONDON PLANE TREE	14
	QUERCUS SHUMARDII SHUMARD RED OAK	10
	ULMUS PROPINQUA 'EMERALD SUNSHINE' EMERALD SUNSHINE ELM	1
EVERGREEN TREES	BOTANICAL / COMMON NAME	QTY
	JUNIPERUS VIRGINIANA 'CANAERTII' CANAERTI JUNIPER	16
	PICEA ABIES NORWAY SPRUCE	6
ORNAMENTAL TREES	BOTANICAL / COMMON NAME	QTY
	ACER TATARICUM 'HOT WINGS' HOT WINGS TATARIAN MAPLE	2
	AMELANCHIER CANADENSIS 'AUTUMN BRILLIANCE' AUTUMN BRILLIANCE SERVICEBERRY	13
	CERCIS CANADENSIS EASTERN REDBUD	8
SHRUBS	BOTANICAL / COMMON NAME	QTY
	JUNIPERUS CHINENSIS 'GOLD LACE' GOLD LACE JUNIPER	27
	JUNIPERUS CHINENSIS 'SEA GREEN' SEA GREEN JUNIPER	74
	PANICUM VIRGATUM 'NORTH WIND' NORTHWIND SWITCH GRASS	6
	VIBURNUM LANTANA 'MOHICAN' MOHICAN WAYFARING TREE	23
GROUND COVERS	BOTANICAL / COMMON NAME	SEED
	FESTUCA TURF TYPE TALL FESCUE BLEND	

SEE SHEET L1.0 FOR COMPLETE PLANT SCHEDULE FOR SIZE AND TOTAL QUANTITIES.
NOTE: ALL EQUIPMENT MUST BE SCREENED WHETHER OR NOT INDICATED ON PLANS. FIELD ADJUSTMENTS MAY BE NECESSARY TO ACCOMMODATE SITE CONDITIONS EQUIPMENT AND LANDSCAPE. COORDINATE WITH LANDSCAPE ARCHITECT FOR ADEQUATE SCREENING. MUST MEET CITY REQUIREMENTS.



KEY MAP
NOT TO SCALE



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MATCHLINE
SEE SHEET L1.03

MATCHLINE
SEE SHEET L1.02

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Overland Park, KS 66213-7756
TEL 913.381.1170 www.olsson.com

SCANNELL PROPERTIES

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	12.28.2021	CITY COMMENTS	
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3	02.03.2022	CITY & ENGINEER COMMENTS	
4	02.24.2022	CITY COMMENTS	

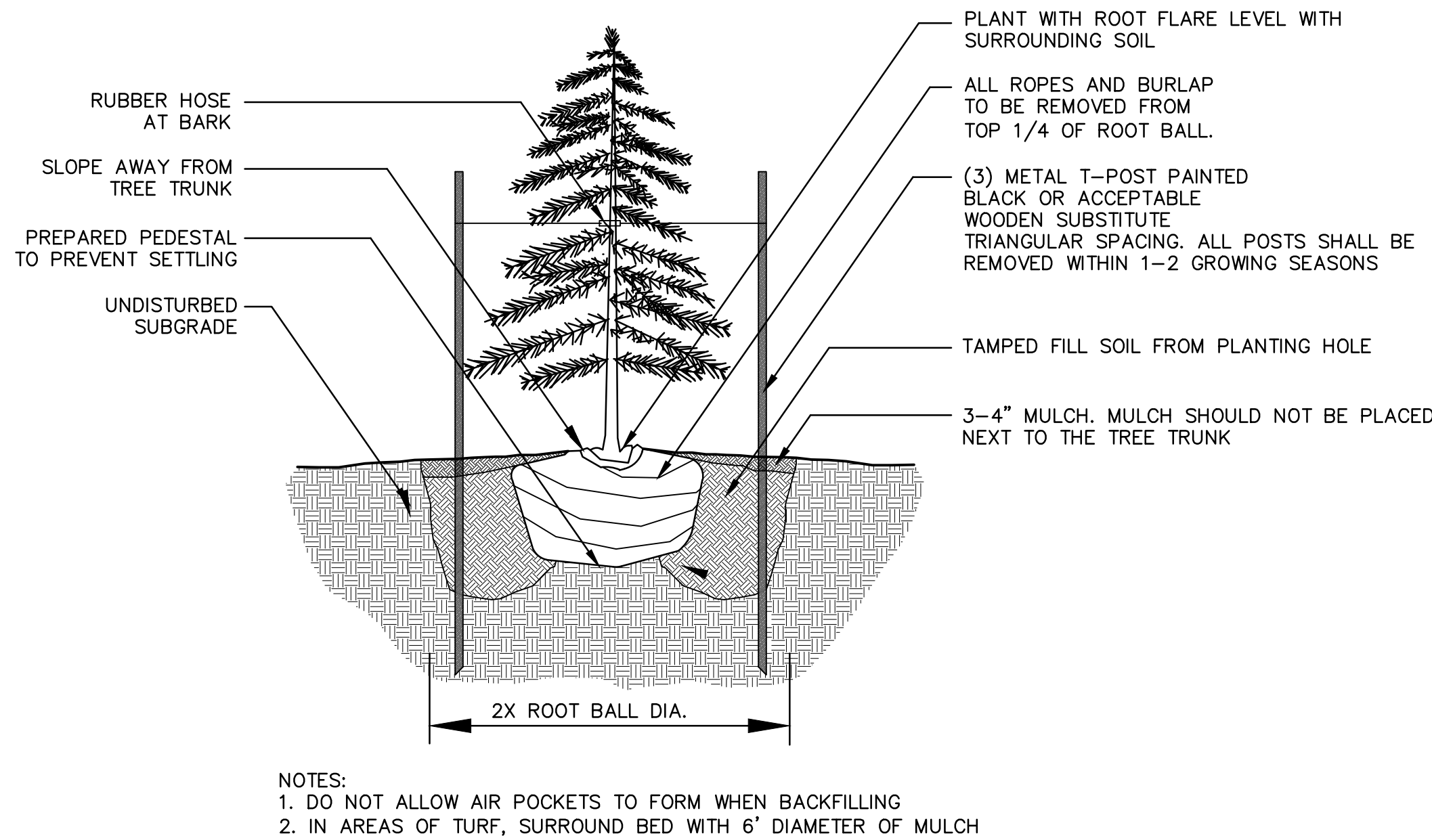
LANDSCAPE PLAN
PHASE I FINAL DEVELOPMENT PLAN

SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET
LEE'S SUMMIT, MISSOURI

2021

drawn by: OLSSON
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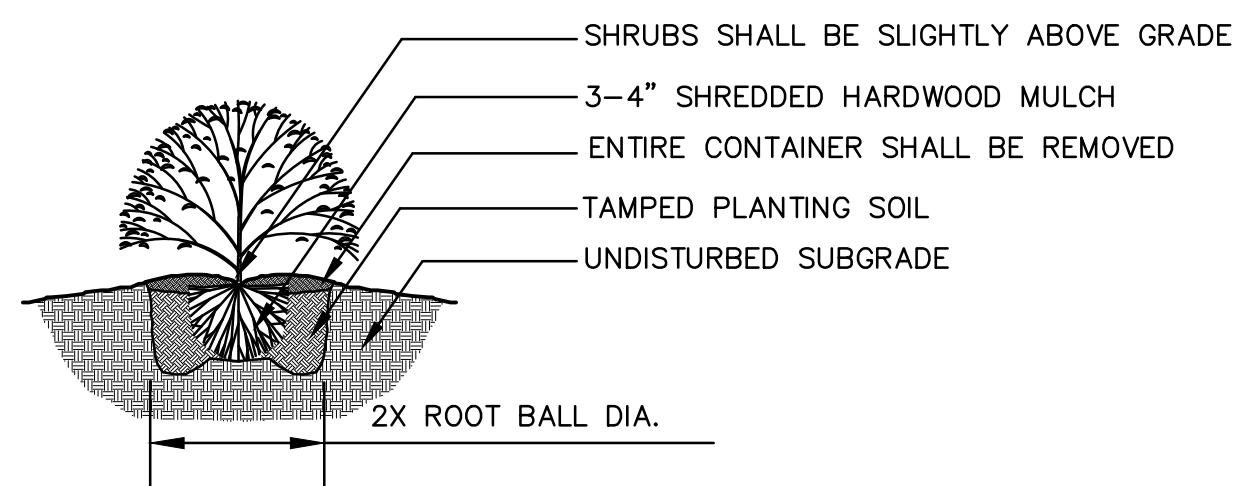
SHEET
L1.04



NOTES:
1. DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING
2. IN AREAS OF TURF, SURROUND BED WITH 6' DIAMETER OF MULCH

1 Evergreen Tree Planting Detail

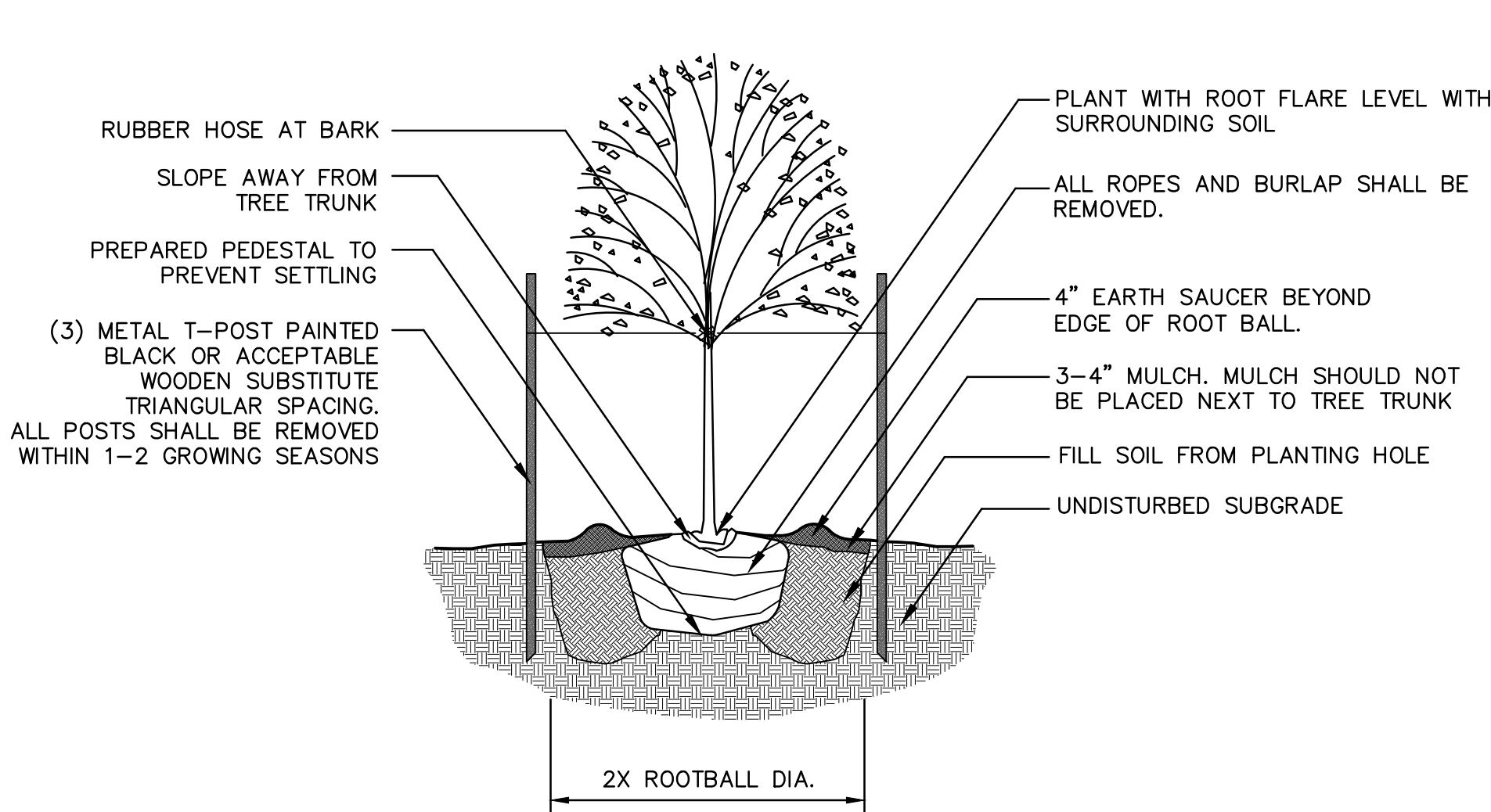
not to scale



NOTES:
1. MINIMUM ROOT SPREAD TO BE IN ACCORDANCE WITH ANLA STANDARDS
2. PRUNE DAMAGED LIMBS OR ROOTS AFTER INSTALLATION
3. MAKE SURE ROOTS DO NOT DRY OUT DURING INSTALLATION
4. SOAK GENEROUSLY TO COMPACT AND SETTLE

3 Shrub Planting Detail

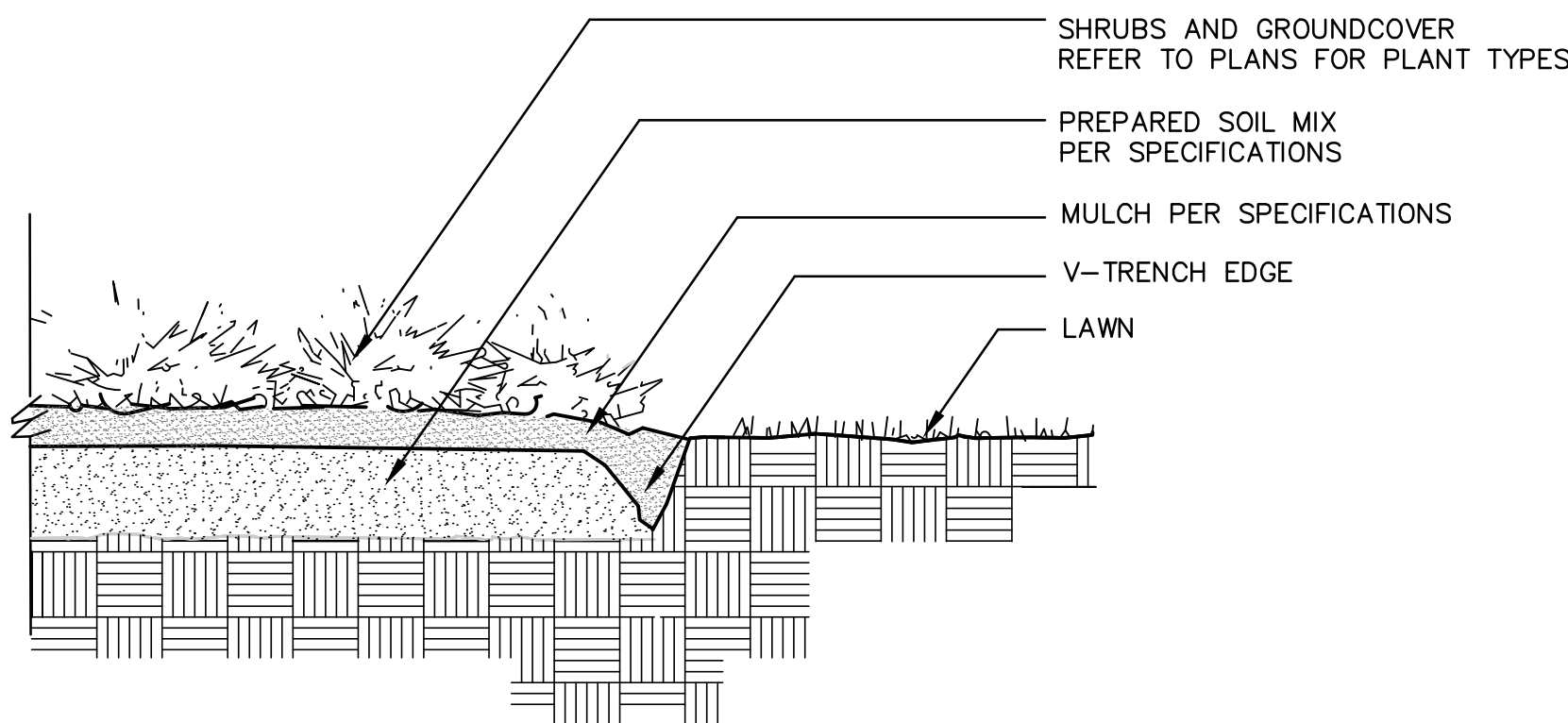
not to scale



NOTES:
1. DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING
2. IN AREAS OF TURF, SURROUND BED WITH 6' DIAMETER OF MULCH

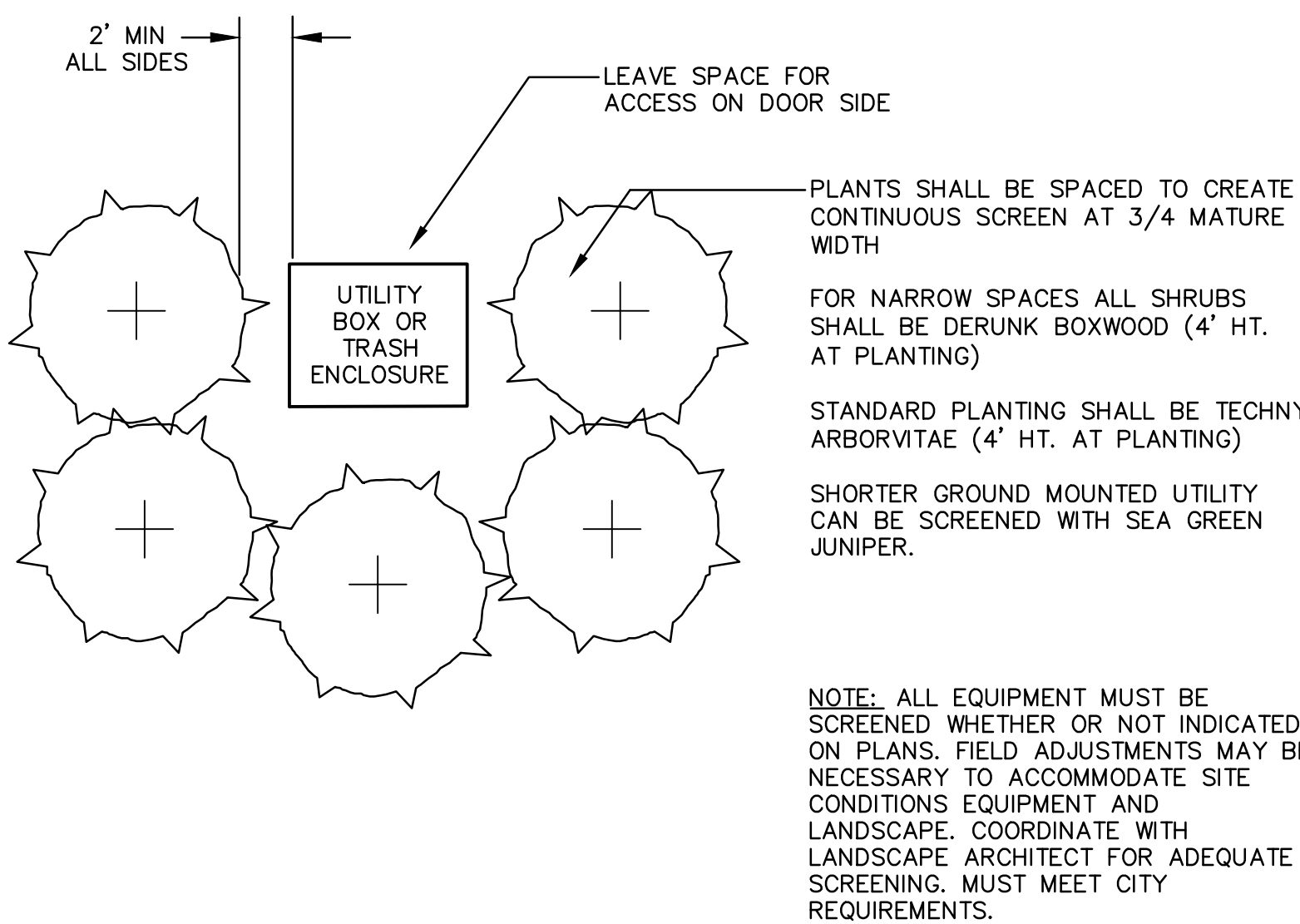
2 Deciduous Tree Planting Detail

not to scale



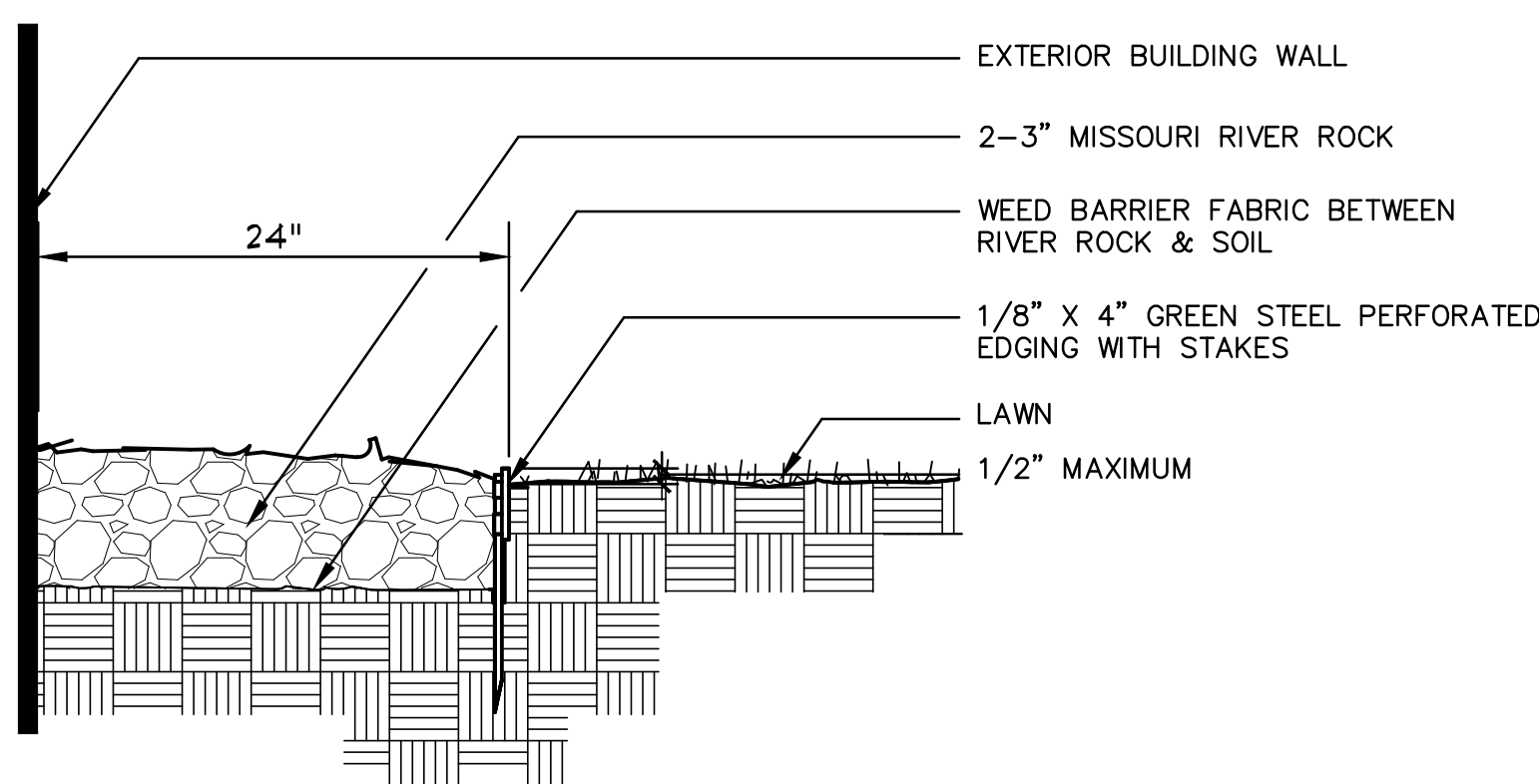
4 V-Trench Edging Detail

not to scale



6 Ground Mounted Mechanical Equipment Screening Detail

not to scale



7 Mow Strip Detail

not to scale

PLANTING NOTES

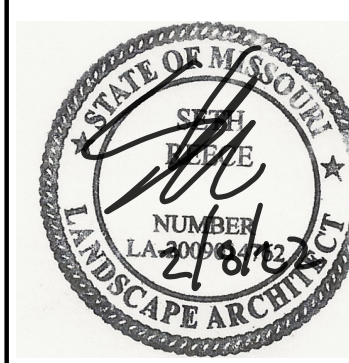
- ALL WORK SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES.
- LOCATE AND FLAG ALL UNDERGROUND UTILITIES PRIOR TO ANY CONSTRUCTION. CONTRACTOR SHALL PROTECT EXISTING OVERHEAD AND UNDERGROUND UTILITIES. ANY DAMAGE TO SUCH SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
- PLANTS AND OTHER MATERIALS ARE QUANTIFIED AND SUMMARIZED FOR THE CONVENIENCE OF THE CITY AND LOCAL GOVERNING BODIES. CONFIRM AND INSTALL SUFFICIENT QUANTITIES TO COMPLETE THE WORK AS DRAWN.
- PLAN IS SUBJECT TO CHANGES BASED ON PLANT SIZE AND MATERIAL AVAILABILITY. ALL CHANGES OR SUBSTITUTIONS MUST BE APPROVED BY THE CITY OF LEE'S SUMMIT, MO AND THE LANDSCAPE ARCHITECT.
- ALL PLANT MATERIAL SHALL BE NURSERY GROWN TO MEET MINIMUM SIZE AS SPECIFIED IN THE AMERICAN STANDARD FOR NURSERY STOCK ESTABLISHED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION (ANLA). THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REJECT ANY PLANT MATERIAL NOT MEETING SPECIFICATIONS.
- ALL TREES SHALL BE CALIPERED AND ANY UNDERSIZED TREES SHALL BE REJECTED. SPECIFIED CALIPER MEASUREMENT FOR TREES SHALL BE MEASURED AT 12" ABOVE THE GRADE.
- PLANTING OF TREES, SHRUBS, SODDED AND SEEDED TURFGRASS SHALL BE COMMENCED DURING EITHER THE SPRING (MARCH 15-JUNE 15) OR FALL (SEPTEMBER 1- OCTOBER 15) PLANTING SEASON AND WITH WATER AVAILABLE FOR IRRIGATION PURPOSES.
- CONTRACTOR SHALL STAKE OR MARK ALL PLANT MATERIAL LOCATIONS PRIOR TO INSTALLATION. CONTRACTOR SHALL HAVE THE LANDSCAPE ARCHITECT APPROVE ALL STAKING PRIOR TO INSTALLATION. FIELD ADJUSTMENTS MAY BE NECESSARY BASED UPON FIELD CONDITIONS (I.E. ROOT BALL AND DROP INLET CONFLICT). ALL ADJUSTMENTS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT.
- THE LANDSCAPE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS AND MATERIALS INJURIOUS TO PLANT GROWTH FROM PLANTING PITS AND BEDS PRIOR TO BACKFILLING WITH PLANTING MIX.
- A PRE-EMERGENT HERBICIDE SHALL BE APPLIED TO ALL SHRUB BEDS PRIOR TO THE INSTALLATION OF ANY PLANT MATERIAL.
- BACKFILL ALL PLANTING BEDS TO A MINIMUM 12-INCH DEPTH WITH PLANTING SOIL MIX. PLANTING SOIL MIX SHALL CONSIST OF ONE (1) PART PERLITE, ONE (1) PART PEAT MOSS, AND TWO (2) PARTS CLEAN LOAM TOPSOIL. THOROUGHLY MIX PLANTING SOIL COMPONENTS PRIOR TO PLACEMENT.
- ALL LANDSCAPE PLANTING AREAS, EXCLUDING TURF AREAS SHALL BE MULCHED WITH A MINIMUM OF 3-4" SHREDDED HARDWOOD MULCH UNLESS OTHERWISE NOTED ON PLANS.
- V-TRENCH LANDSCAPE EDGING IS TO BE USED ON ALL LANDSCAPE BEDS ABUTTING SODDED AREAS.
- ALL LANDSCAPE AREAS SHALL BE IRRIGATED WITH A HIGH-EFFICIENCY, AUTOMATIC IRRIGATION SYSTEM ACHIEVING 100% EVEN COVERAGE OF ALL LANDSCAPE AREAS. IRRIGATION SYSTEM SHALL BE DESIGN-BUILD TO MEET ALL CITY REQUIREMENTS.
- LANDSCAPE CONTRACTOR IS TO BE RESPONSIBLE FOR WATERING ALL PLANT MATERIALS UNTIL THE TIME THE PERMANENT IRRIGATION SYSTEM IS FULLY FUNCTIONAL AND ACCEPTANCE OF THE PROJECT HAS TAKEN PLACE. ANY MATERIAL WHICH DIES, OR DEFOLIATES (PRIOR TO ACCEPTANCE OF THE WORK) WILL BE PROMPTLY REMOVED AND REPLACED.
- THE CONTRACTOR WILL COMPLETELY GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR BEGINNING AT THE DATE OF ACCEPTANCE. CONTRACTOR WILL MAKE ALL REPLACEMENTS PROMPTLY (AS PER DIRECTION OF OWNER).

SODDING NOTES

- ALL DISTURBED AREAS SHALL BE SODDED WITH TURF-TYPE TALL FESCUE SOD WITH A MINIMUM OF 3 CULTIVARS.
- ALL LAWN AREAS SHALL RECEIVE A MINIMUM 6-INCH DEPTH OF TOPSOIL COMPACTED TO 85% MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT.
- THE ENTIRE SURFACE TO BE SODDED SHALL BE REASONABLY SMOOTH AND FREE FROM STONES, ROOTS, OR OTHER DEBRIS.
- SOD SHALL BE MACHINE STRIPPED AT A UNIFORM SOIL THICKNESS OF APPROXIMATELY ONE INCH (PLUS OR MINUS 1/4-INCH). THE MEASUREMENT FOR THICKNESS SHALL EXCLUDE TOP GROWTH AND THATCH, AND SHALL BE DETERMINED AT THE TIME OF CUTTING IN THE FIELD. PRECAUTIONS SHALL BE TAKEN TO PREVENT DRYING AND HEATING. SOD DAMAGED BY HEAT AND DRY CONDITIONS, AND SOD CUT MORE THAN 18 HOURS BEFORE BEING INCORPORATED INTO THE WORK SHALL NOT BE USED.
- HANDLING OF SOD SHALL BE DONE IN A MANNER THAT WILL PREVENT TEARING, BREAKING, DRYING AND OTHER DAMAGE. PROTECT EXPOSED ROOTS FROM DEHYDRATION. DO NOT DELIVER MORE SOD THAN CAN BE LAID WITHIN 24 HOURS.
- MOISTEN PREPARED SURFACE IMMEDIATELY PRIOR TO LAYING SOD. WATER THOROUGHLY AND ALLOW SURFACE TO DRY BEFORE INSTALLING SOD. FERTILIZE, HARROW OR RAKE FERTILIZER IN THE TOP 1-1/2-INCHES OF TOPSOIL, AT A UNIFORM RATE OF ONE POUND OF NITROGEN PER 1000 S.F.
- SOD SHALL BE CAREFULLY PLACED IN THE DIRECTION PARALLEL WITH THE SLOPE OF THE AREA TO BE SODDED. SOD STRIPS SHALL BE BUTTED TOGETHER BUT NOT OVERLAPPED WITH THE SEAMS STAGGERED ON EACH ROW.
- FERTILIZER SHALL BE 20-10-5 COMMERCIAL FERTILIZER OF THE GRADE, TYPE, AND FORM SPECIFIED AND SHALL COMPLY WITH THE RULES OF THE STATE OF MISSOURI DEPT. OF AGRICULTURE. FERTILIZER SHALL BE IDENTIFIED ACCORDING TO THE PERCENT N, P, K, IN THAT ORDER.
- ALL SOD ON SLOPES GREATER THAN 5:1 AND WITHIN DETENTION AREAS SHALL BE STAKED.
- SATURATE SOD WITH FINE WATER SPRAY WITHIN TWO HOURS OF PLANTING. DURING FIRST WEEK AFTER PLANTING, WATER DAILY OR MORE FREQUENTLY AS NECESSARY TO MAINTAIN MOIST SOIL TO A MINIMUM DEPTH OF FOUR INCHES BELOW SOD.
- CONTRACTOR SHALL PROVIDE FULL MAINTENANCE FOR SODDED TURF GRASS FOR A PERIOD OF 30 DAYS AFTER THE DATE OF FINAL ACCEPTANCE. AT THE END OF THE MAINTENANCE PERIOD, A HEALTHY, WELL-ROOTED, EVEN-COLORED, VIABLE TURF MUST BE ESTABLISHED. THE TURF GRASS SHALL BE FREE OF WEEDS, OPEN JOINTS, BARE AREAS, AND SURFACE IRREGULARITIES.

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SCANNELL
PROPERTIES

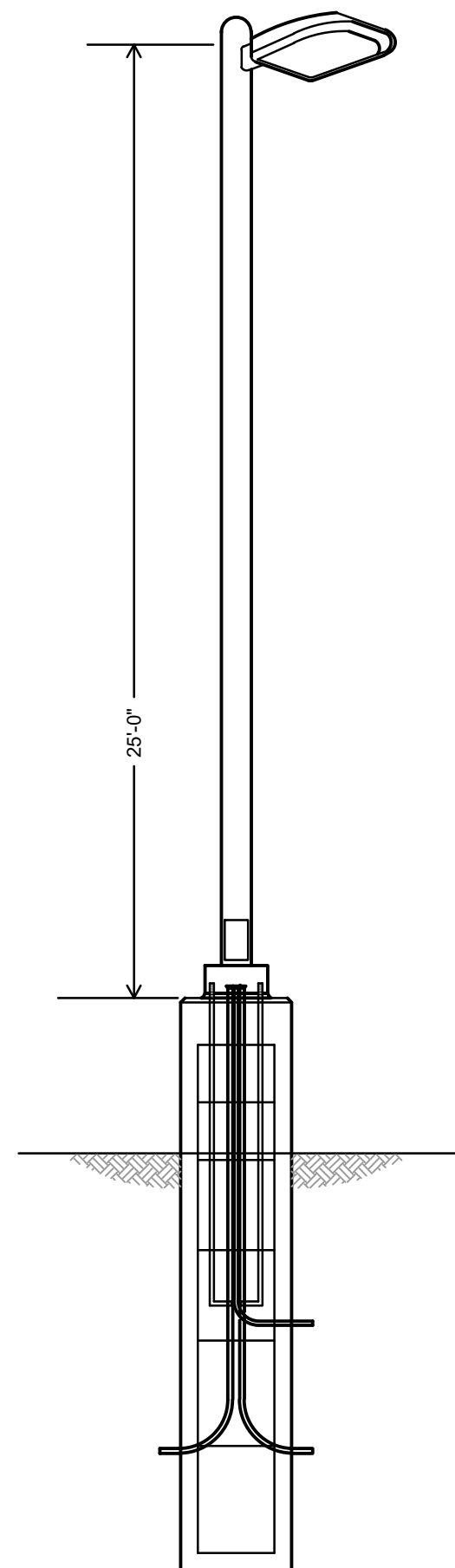


BY		REVISIONS DESCRIPTION	
REV.	NO.	DATE	DESCRIPTION
1	1	12/24/2021	CITY COMMENTS
2	2	03/03/2022	ADD AND CHANGE CHANGES
3	3	03/03/2022	CITY & REPLY COMMENTS
4	4	02/24/2022	CITY COMMENTS

LANDSCAPE NOTES & DETAILS
PHASE I/FINAL DEVELOPMENT PLAN
SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET
LEE'S SUMMIT, MISSOURI

drawn by: OLSSON
checked by: ENG
approved by: ENG
QA/QC by: ENG
project no.: 021-04157
drawing: 021-S0202_02104157.dwg
date:

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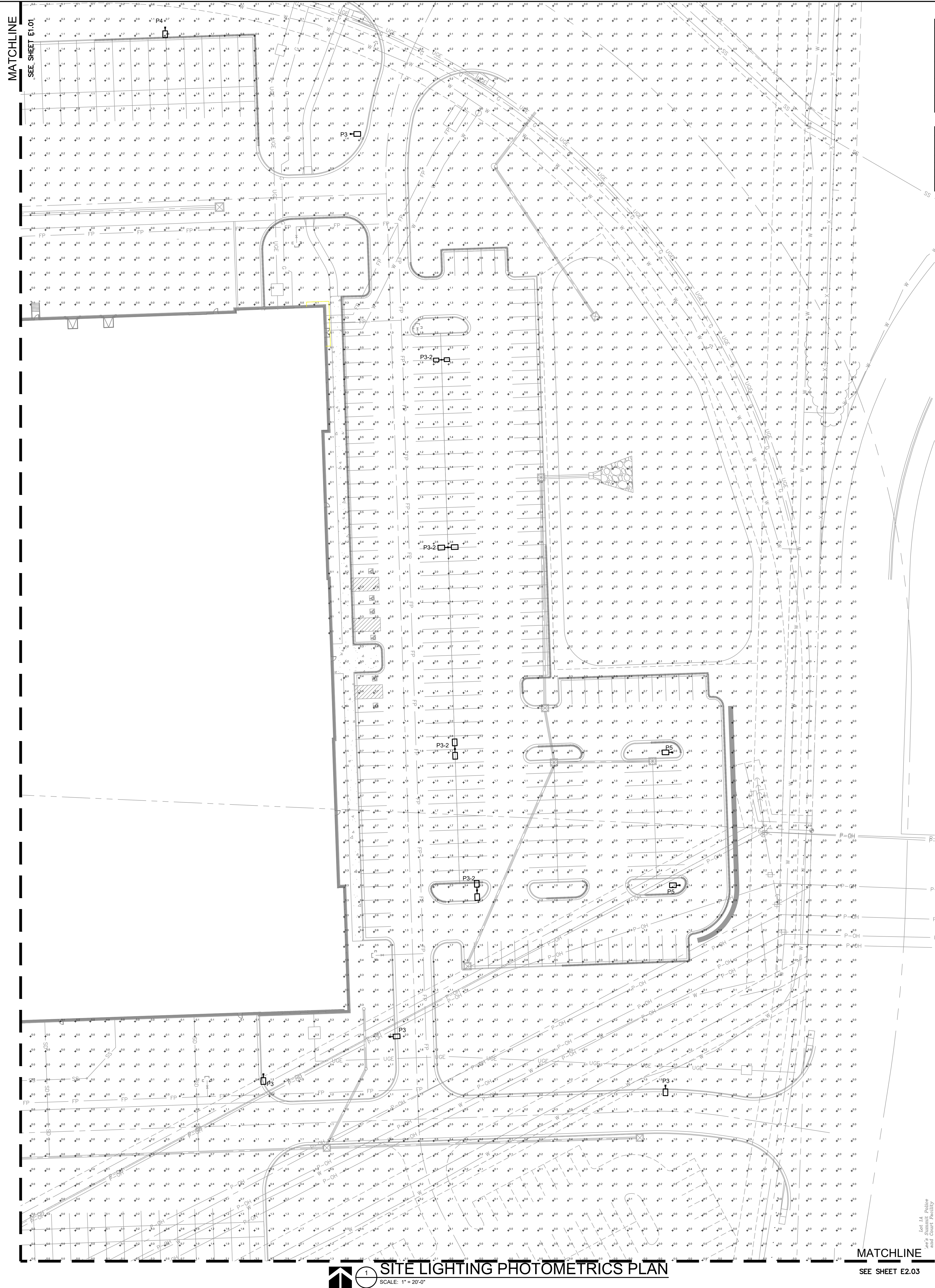





  **SITE LIGHTING PHOTOMETRICS PLAN**
SCALE: 1" = 20'-0"

MATCHLINE
SEE SHEET E1.03

olsson

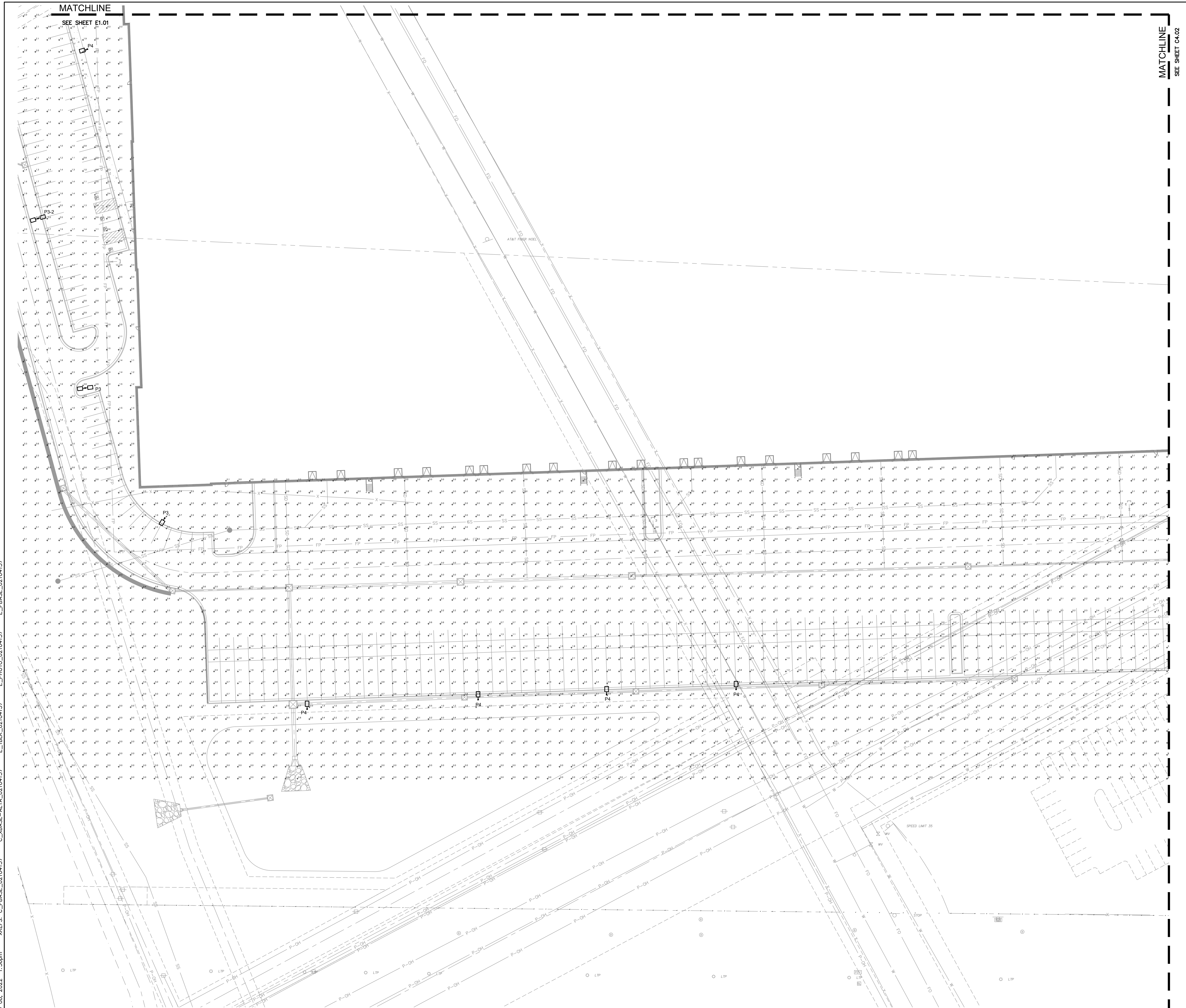
7301 West 133rd Street, Suite 200
Overland Park, KS 66213, U.S.A.
TEL 913 381 1170
www.olsson.com



Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Number Lamps Per Lamp	Lumens Per Lamp	Light Factor	Wattage
	P4	11	Lithonia Lighting	DSX1 LED P8 40K T4M MVOLT H40	DSX1 LED P8 40K T4M MVOLT with hoodsize H40	1	18424	0.9	207
	P3-2	8	Lithonia Lighting	DSX1 LED P3 40K T3M MVOLT	DSX1 LED P3 40K T3M MVOLT	1	12214	0.9	204
	P5	2	Lithonia Lighting	DSX1 LED P3 40K T5S MVOLT	DSX1 LED P3 40K T5S MVOLT	1	13088	0.9	102
	P3	7	Lithonia Lighting	DSX1 LED P3 40K T3M MVOLT	DSX1 LED P3 40K T3M MVOLT	1	12214	0.9	102

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PROPERTY LINE	+	0.0 fc	0.3 fc	0.0 fc	N/A	N/A
DRIVE	X	0.4 fc	4.1 fc	0.3 fc	11.0 ft	3.7 ft
EAST PARKING	X	1.2 fc	3.9 fc	0.3 fc	13.0 ft	4.0 ft
NORTH PARKING	X	1.6 fc	4.1 fc	0.3 fc	13.7 ft	5.0 ft
SOUTH PARKING	X	1.1 fc	2.9 fc	0.0 fc	N/A	N/A
WEST PARKING	X	1.3 fc	3.0 fc	0.3 fc	10.0 ft	4.3 ft

E_PBASE_02104157



SITE LIGHTING PHOTOMETRICS PLAN SCALE: 1" = 20'-0"

MATCHLINE
SEE SHEET C4.02


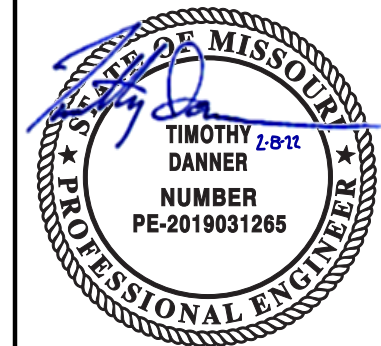
**SITE LIGHTING PHOTOMETRICS PLAN
PHASE I CONSTRUCTION DOCUMENTS**

SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET

2021

REV. NO.	DATE	REVISIONS DESCRIPTION	BY

REVISIONS



SCANELL
PROPERTIES

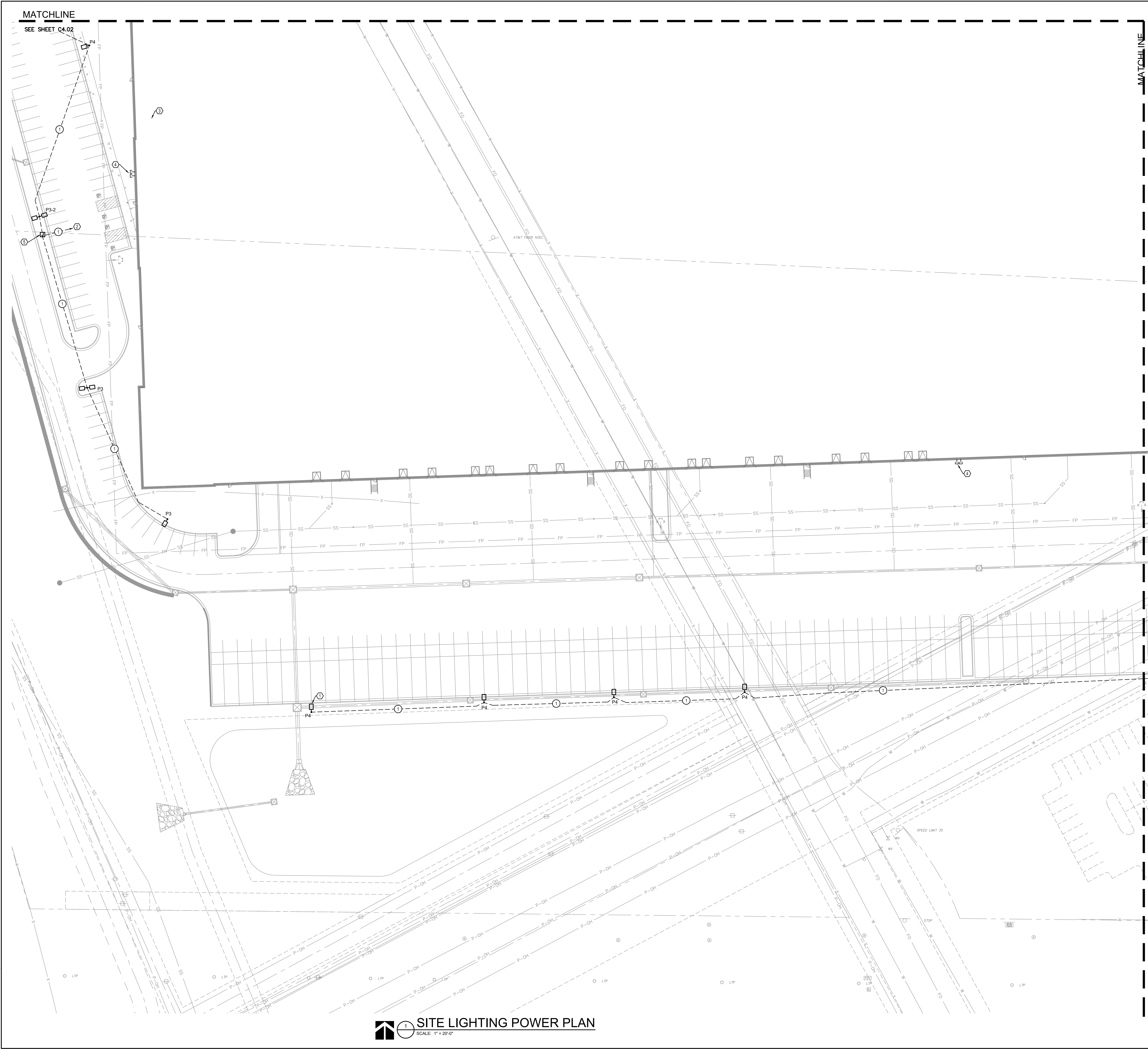
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7301 West 133rd Street, Suite 200
Overland Park, KS 66213-4750
TEL 913.381.1170 www.olsson.com

drawn by: _____ OLSSON
checked by: _____ ENG
approved by: _____ ENG
QA/QC by: _____ ENG
project no.: _____ 021-04157
drawing no.: E NSITE 02104157
date: _____

SHEET
E1.03

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1 SITE LIGHTING POWER PLAN
SCALE: 1" = 20'-0"

GENERAL NOTES

- TO FEDERAL, STATE, AND LOCAL STATUTES, NOTIFY MISSOURI ONE-CALL SYSTEM, INC. AT LEAST 48 HOURS PRIOR TO ANY DIGGING, TRENCHING, EXCAVATION, ETC.
- INFORMATION SHOWN ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING DETERMINATION OF TYPE AND LOCATION OF ALL UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.
- FIELD VERIFY LOCATION OF ALL UTILITIES PRIOR TO BEGINNING WORK. ANY INTERFERENCE SHALL BE BROUGHT TO ATTENTION OF THE ARCHITECT AND ENGINEER FOR DIRECTION.
- PROVIDE EQUIPMENT GROUNDING CONDUCTOR THROUGHOUT EACH BRANCH CIRCUIT. CONDUCTOR MAY NOT BE INDICATED GRAPHICALLY.

SHEET KEYNOTES

- AREA LED LIGHT FIXTURE ON POLE WITH CONCRETE BASE. REFER TO LIGHT FIXTURE SCHEDULE AND LIGHT POLE BASE DETAIL FOR ADDITIONAL INFORMATION. (TYP.)
- ROUTE LIGHTING HOMERUN PANEL TO 20A/1P CIRCUIT BREAKER TO PANELBOARD IN BUILDING.
- APPROXIMATE LOCATION OF PANELBOARD FOR NEW LIGHTING CIRCUITS. REFER TO BUILDING INTERIOR PLANS FOR EXACT LOCATION AND CONTROL SCHEME. EXTERIOR LIGHTING CIRCUITS TO BE CONTROLLED BY TIME CLOCK/PHOTOCELL.
- REFER TO BUILDING INTERIOR PLANS FOR ROUTING LIGHTING CIRCUITS IN BUILDING.
- IN GRADE JUNCTION BOX. REFER TO JUNCTION BOX DETAILS FOR ADDITIONAL INFORMATION. DETERMINE EXACT LOCATION AND QUANTITY FOR ROUTING NEW LIGHTING CIRCUITS.

SHEET KEYNOTES

- (2)-#10 AND (1)-#10 GROUND IN 1" CONDUIT.

olsson

7001 West 135th Street, Suite 200
Overland Park, KS 66204-7750
TEL 913.381.1170
www.olsson.com

SCANNELL

PROPERTIES

STATE OF MISSOURI

TIMOTHY DANNER

REGISTERED PROFESSIONAL ENGINEER

NUMBER PE-2019931265

BY

REVISIONS DESCRIPTION

DATE

REV. NO.

REVISIONS

SITE LIGHTING POWER PLAN
PHASE I CONSTRUCTION DOCUMENTS

SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET
LEE'S SUMMIT, MISSOURI

2021

drawn by: OLSSON

checked by: ENG

approved by: ENG

QA/QC by: ENG

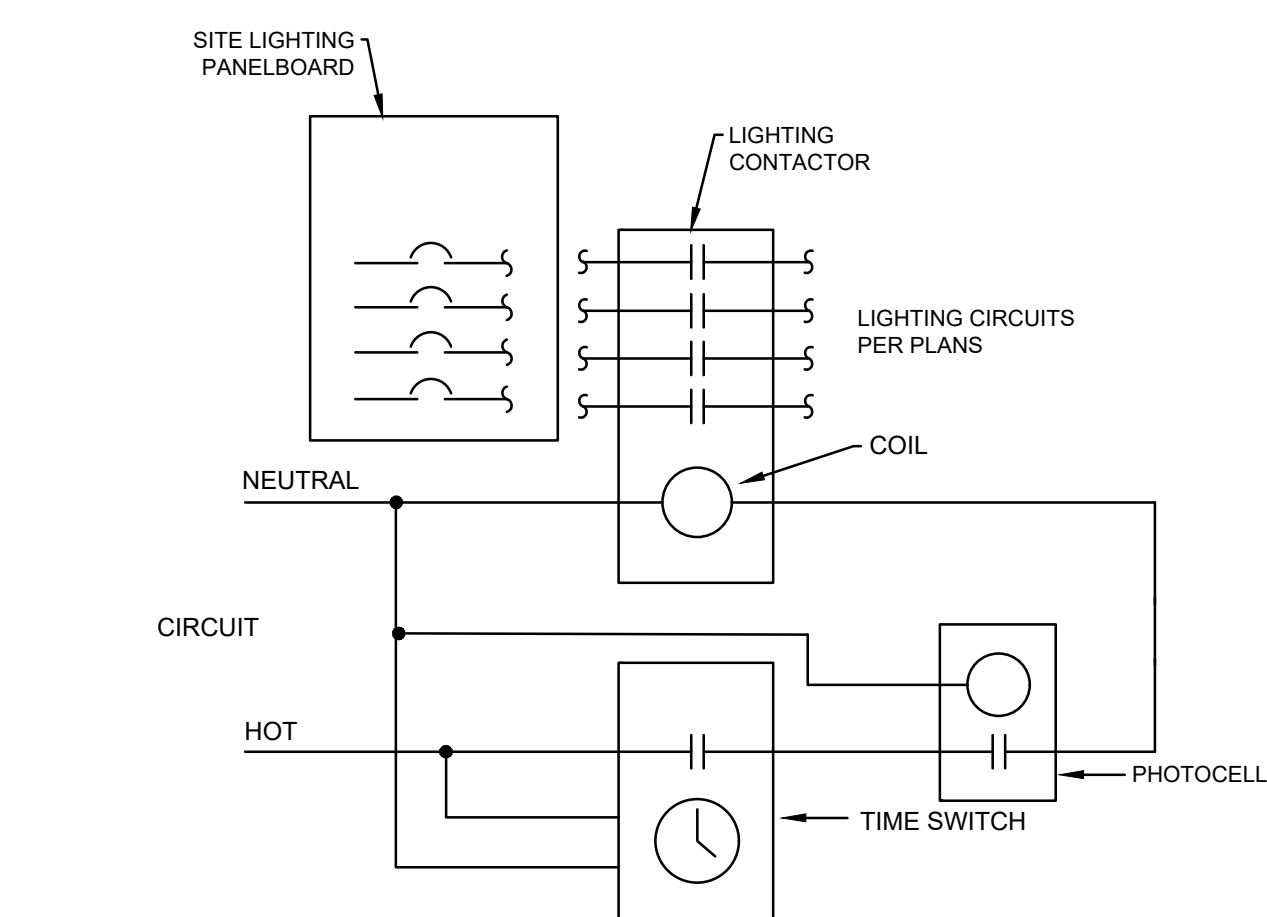
project no: 021-04157

drawing no: E_NSITE_02104157

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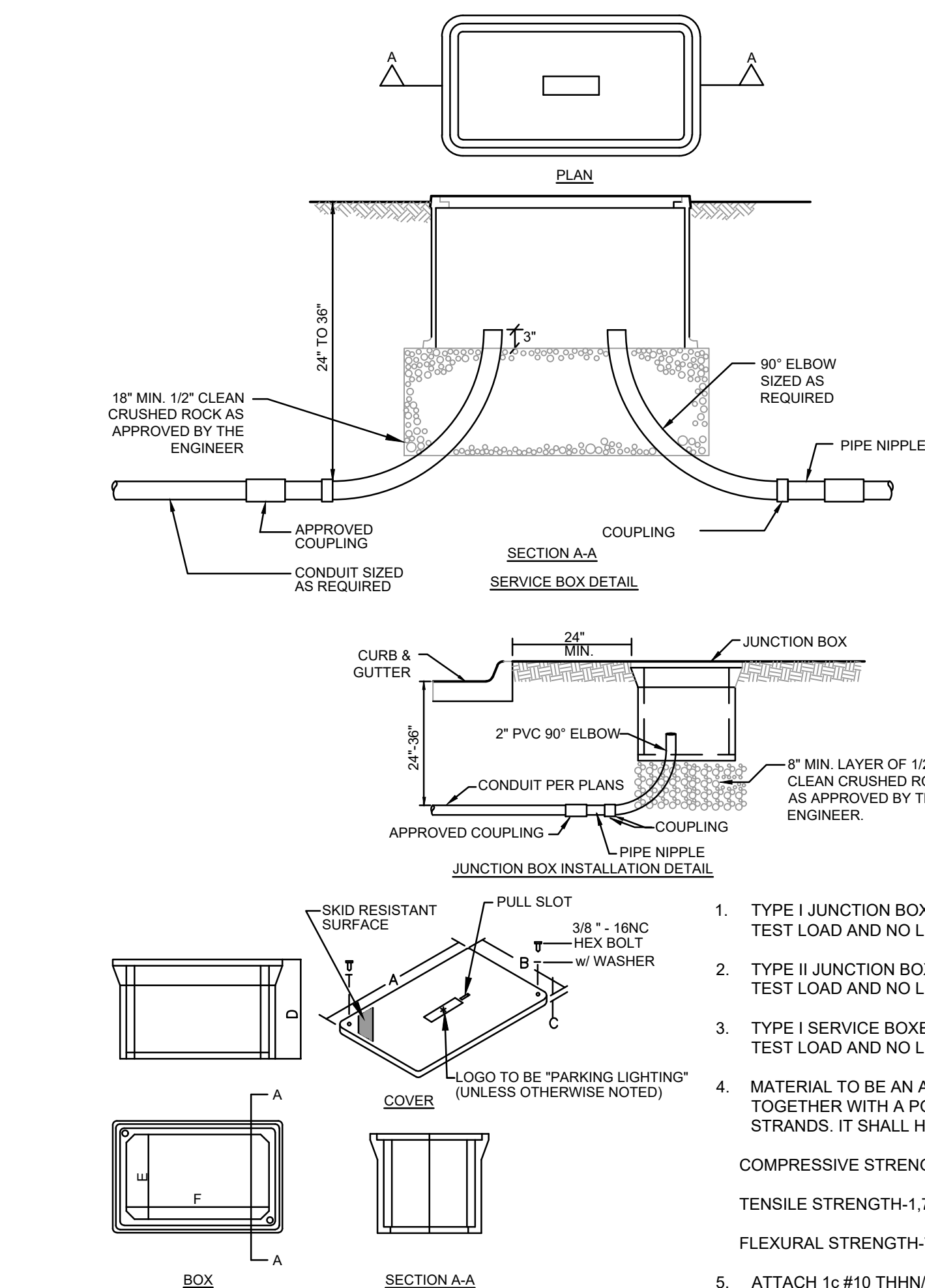
SHEET

E2.03



3 SITE LIGHTING CONTROL SCHEMATIC

SCALE: NOT TO SCALE



TYPE	DIMENSION (IN.)					
	A	B	C	D	E	F
I-JUNCTION	12 7/8	12 7/8	3/4	12 3/4	9 3/4 - 10 1/4	9 3/4 - 10 1/2
II-JUNCTION	18 - 18 1/2	11 1/4 - 11 1/2	1 3/4 - 2	12	9 1/2 - 10 1/4	16 1/2 - 17 1/4
I-SERVICE	35 5/8	24	3	24	22 1/4	33 7/8
II-SERVICE	* 47 5/8	30 1/8	3	24	22 1/8	45 5/8

*NOTE: THE TYPE II SERVICE BOX SHALL HAVE A TWO-PIECE OVERLAPPING COVER.

1. TYPE I JUNCTION BOXES SHALL BE RATED FOR NO LESS THAN 15,000 lbf. VERTICAL TEST LOAD AND NO LESS THAN 8000 lbf. COVER LOAD OVER A 10"x10" AREA.
2. TYPE II JUNCTION BOXES SHALL BE RATED FOR NO LESS THAN 22,500 lbf. VERTICAL TEST LOAD AND NO LESS THAN 8000 lbf. COVER LOAD OVER A 10"x10" AREA.
3. TYPE I SERVICE BOXES SHALL BE RATED FOR NO LESS THAN 22,500 lbf. VERTICAL TEST LOAD AND NO LESS THAN 8000 lbf. COVER LOAD OVER A 10"x10" AREA.
4. MATERIAL TO BE AN AGGREGATE CONSISTING OF SAND AND GRAVEL BOUND TOGETHER WITH A POLYMER AND REINFORCED WITH CONTINUOUS WOVEN GLASS STRANDS. IT SHALL HAVE THE FOLLOWING PROPERTIES:

COMPRESSIVE STRENGTH-11,000 psi ASTM C-109

TENSILE STRENGTH-1,700 psi ASTM C-496

FLEXURAL STRENGTH-7,500 psi ASTM D-790.5
5. ATTACH 1c #10 THIN/THIN STRANDED COPPER SYSTEM GROUND TO 1/2" x 8"-O GROUND ROD IN SERVICE BOX. MULTIPLE #10 GROUND CABLES INTRODUCED AT SERVICE POLES SHALL BE TERMINATED AT GROUND ROD WITH AN ADDITIONAL CLAMP.

COMPRESSIVE STRENGTH-11,000 psi ASTM

TENSILE STRENGTH-1,700 psi ASTM C-496

FLEXURAL STRENGTH-7,500 psi ASTM D-791

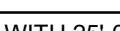

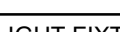
ATTACH 1c #10 THHN/THWN STRANDED
GROUND ROD IN SERVICE BOX. MULTIP

SIGNAL POLES SHALL BE TERMINATED A CLAMP.

*NOTE: THE TYPE II SERVICE BOX SHALL HAVE A TWO-PIECE OVERLAPPING COVER.

2 FIBERGLASS REINFORCED POLYMER CONCRETE JUNCTION BOX DETAILS

LIGHTING FIXTURE SCHEDULE

SYMBOL	TYPE	DESCRIPTION	MANUFACTURER AND MODEL	LAMPS	LUMENS	COLOR TEMP / CRI	DRIVER / BALLAST	VOLTAGE / WATTAGE	LOCATION
	P4	AREA LED LIGHT FIXTURE WITH 25'-0" POLE AND CONCRETE BASE.	LITHONIA# DSX1-LED-P8-40K-14M-MVOLT-SPA-DBLXD POLE# SSS-25-GG-DM19AS-DBLXD	LED	24,000	4000K / 80	0-10V DIMMING	MVOLT 207	PARKING LOT
	P3-2	DOUBLE HEAD AREA LED LIGHT FIXTURE WITH 25'-0" POLE AND CONCRETE BASE.	LITHONIA# DSX1-LED-P3-40K-T3M-MVOLT-SPA-DBLXD POLE# SSS-25-GG-DM28AS-DBLXD	LED	12,500	4000K / 80	0-10V DIMMING	MVOLT 204	PARKING LOT
	P5	AREA LED LIGHT FIXTURE WITH 25'-0" POLE AND CONCRETE BASE.	LITHONIA# DSX1-LED-P3-40K-T5S-MVOLT-SPA-DBLXD POLE# SSS-25-GG-DM19AS-DBLXD	LED	13,000	4000K / 80	0-10V DIMMING	MVOLT 102	PARKING LOT
	P3	AREA LED LIGHT FIXTURE WITH 25'-0" POLE AND CONCRETE BASE.	LITHONIA# DSX1-LED-P3-40K-T3M-MVOLT-SPA-DBLXD POLE# SSS-25-GG-DM19AS-DBLXD	LED	12,500	4000K / 80	0-10V DIMMING	MVOLT 102	PARKING LOT

NOTES:

A. PROVIDE ALL COMPONENTS TO MAKE A COMPLETE ASSEMBLY. THIS WOULD INCLUDE, BUT NOT BE LIMITED TO, ARM, MOUNTING BRACKETS, POLE BASE COVER, ANCHOR BOLTS, TEMPLATE, BASE, HAND HOLE, SEPARATE CIRCUIT OUTLET, ETC.

B. PROVIDE CONCRETE BASE, PER DETAIL.

GENERAL NOTES

- G1. CONTRACTOR TO VERIFY LOCATIONS OF EXISTING UNDERGROUND STRUCTURES AND UTILITIES BEFORE CONSTRUCTING NEW FOUNDATIONS.
- G2. THE CONTRACTOR SHALL FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE DRAWINGS.
- G3. EXCAVATE SHAFTS FOR DRILLED FOUNDATIONS TO INDICATED ELEVATIONS. REMOVE LOOSE DEBRIS, MATERIALS AND/OR MUCK TO MAKE BOTTOM SURFACES LEVEL WITHIN ACI 336.1 TOLERANCES.
- G4. CONSTRUCTION TOLERANCES:
A. BOTTOM DIAMETER: MINUS ZERO, PLUS 6 INCHES, MEASURED IN ANY DIRECTION.
B. MAXIMUM VARIATION FROM PLUMB: +1.0.
C. MAXIMUM BOTTOM LEVEL: PLUS OR MINUS 2 INCHES.
- G5. AT NO ADDITIONAL COST, CASE PIER SHAFTS AS NECESSARY. PROTECT EXCAVATED WALLS AND TEMPORARY BRACING FROM COLLAPSE, CASING OF SUFFICIENT LENGTH TO PREVENT WATER INTRUSION, CAVE-INS, DISPLACEMENT OF SURROUNDING EARTH, INJURY TO PERSONNEL AND DAMAGE TO CONSTRUCTION OPERATIONS. MAINTAIN EXPOSURE OF CONCRETE TO AIR AND DRY CONDITION, USING PUMPS WHERE NECESSARY. REMOVE WATER TO A MAXIMUM DEPTH OF 6 INCHES FROM EXCAVATED SHAFT PRIOR TO CONCRETE PLACEMENT.
- G6. CONVEY CONCRETE FROM THE MIXER TO PLACE OF DEPOSIT BY BEST INDUSTRY METHODS THAT WILL PREVENT SEGREGATION AND LOSS OF MATERIAL. SIZE AND DESIGN THE EQUIPMENT FOR CONVEYING CONCRETE TO ENSURE UNIFORM, CONTINUOUS EXPOSURE OF CONCRETE. PREVENT INJURY TO PERSONNEL FROM FALLING INTO PLACEMENT CONCRETE IN A CONTINUOUS OPERATION AND WITHOUT SEGREGATION INTO DRY EXCAVATIONS WHENEVER POSSIBLE. USE ALL PRACTICABLE MEANS TO OBTAIN A DRY EXCAVATION BEFORE AND DURING CONCRETE PLACEMENT.
- G7. WHEN PULLING CASING, MAINTAIN LEVEL OF CONCRETE ABOVE BOTTOM OF CASING GRADATIONS OR EQUAL TO LEVEL OF GROUND KEEP BOTTOM OF CASING AT LEAST 10 FEET BELOW TOP OF CONCRETE. PREVENT INJURY TO PERSONNEL FROM FALLING INTO AND MIXING WITH CONCRETE. PULL CASING IN SHORT SLOW VERTICAL LIFTS (ESSENTIALLY CONTINUOUS), MAINTAINING PLUMB ALIGNMENT AND SUFFICIENT HEAD OF CONCRETE.
- G8. ALL CONCRETE SHALL BE CLASS KOMMB 4000
- G9. ALL REINFORCING SHALL BE STRUCTURAL GRADE 60 PER ASTM-A615 AND HAVE AT LEAST 3" OF CONCRETE COVER
- G10. ANCHOR BOLTS ARE TO BE FURNISHED BY THE FOUNDATION CONTRACTOR UNLESS OTHERWISE NOTED. CONTRACTOR SHALL PLACE ALL REBAR SO AS TO NOT INTERFERE WITH ANCHOR BOLTS.
- G11. ALL ABOVE GRADE FOUNDATION SURFACES SHALL BE STEEL TROWEL FINISHED UNLESS OTHERWISE NOTED.
- G12. EACH PIER FOUNDATION SHALL BE CONSTRUCTED IN A SINGLE CONTINUOUS POUR.
- G13. NO EXCAVATION OR VIBRATION-INDUCING ACTIVITIES ARE ALLOWED WITHIN 3 PIER DIAMETERS OF A SUBJECT PIER UNTIL AT LEAST 24 HOURS HAVE ELAPSED SINCE THE COMPLETION OF CONCRETE PLACEMENT. COVER ALL EXCAVATIONS BETWEEN OPERATIONS. REMOVE FOREIGN AND LOOSE MATERIAL FROM APPROVED EXCAVATION
- G14. THE CONTRACTOR SHALL PROVIDE ALL MEASURES AND PRECAUTIONS NECESSARY TO PREVENT DAMAGE AND/OR SETTLEMENT OF EXISTING OR NEW CONSTRUCTION INSIDE OR OUTSIDE THE PROJECT LIMITS DURING EXCAVATION AND FOUNDATION CONSTRUCTION, ANY DAMAGE TO NEW OR EXISTING CONSTRUCTION INSIDE OR OUTSIDE OF THE PROJECT LIMITS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

FOUNDATION DESIGN LIMITATIONS

- L1. THIS FOUNDATION WAS DESIGNED FOR A MINIMUM LATERAL SOIL DEFORMATION MODULUS OF 0.50 KSI
- L2. THIS FOUNDATION WAS DESIGNED FOR A MINIMUM LATERAL SOIL UNDRAINED SHEAR STRENGTH OF 0.50 KSF
- L3. THIS FOUNDATION WAS DESIGNED FOR A MAXIMUM ALLOWABLE LATERAL DEFLECTION OF 1/2 INCH OVERALL AT GRADE ELEVATION
- L4. THIS FOUNDATION WAS DESIGNED WITH AN ASSUMED DEPTH TO ROCK GREATER THAN TWENTY FEET FROM FINISHED GRADE
- L5. THIS FOUNDATION WAS DESIGNED WITH AN ASSUMED WATER TABLE LOCATED AT THE SOIL SURFACE.
- L6. THIS FOUNDATION WERE NOT DESIGNED TO WITHSTAND THE EFFECTS OF SCOURING.
- L7. IF CONDITIONS OTHER THAN THOSE SPECIFIED HEREIN ARE PRESENT AT THE SITE, INCLUDING NON-COHESIVE SOILS FOUND IN BORINGS, PLEASE CONTACT THE ENGINEER OF RECORD.

STRUCTURAL CONCRETE

CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF:

- ACI 301 - "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"
- ACI 302 - "RECOMMENDED PRACTICE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION"
- ACI 304 - "ACI MANUAL OF CONCRETE INSPECTION"
- ACI 311 - "RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE"
- ACI 315 - "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT"
- ACI 318 - "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
- ACI 347 - "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK"

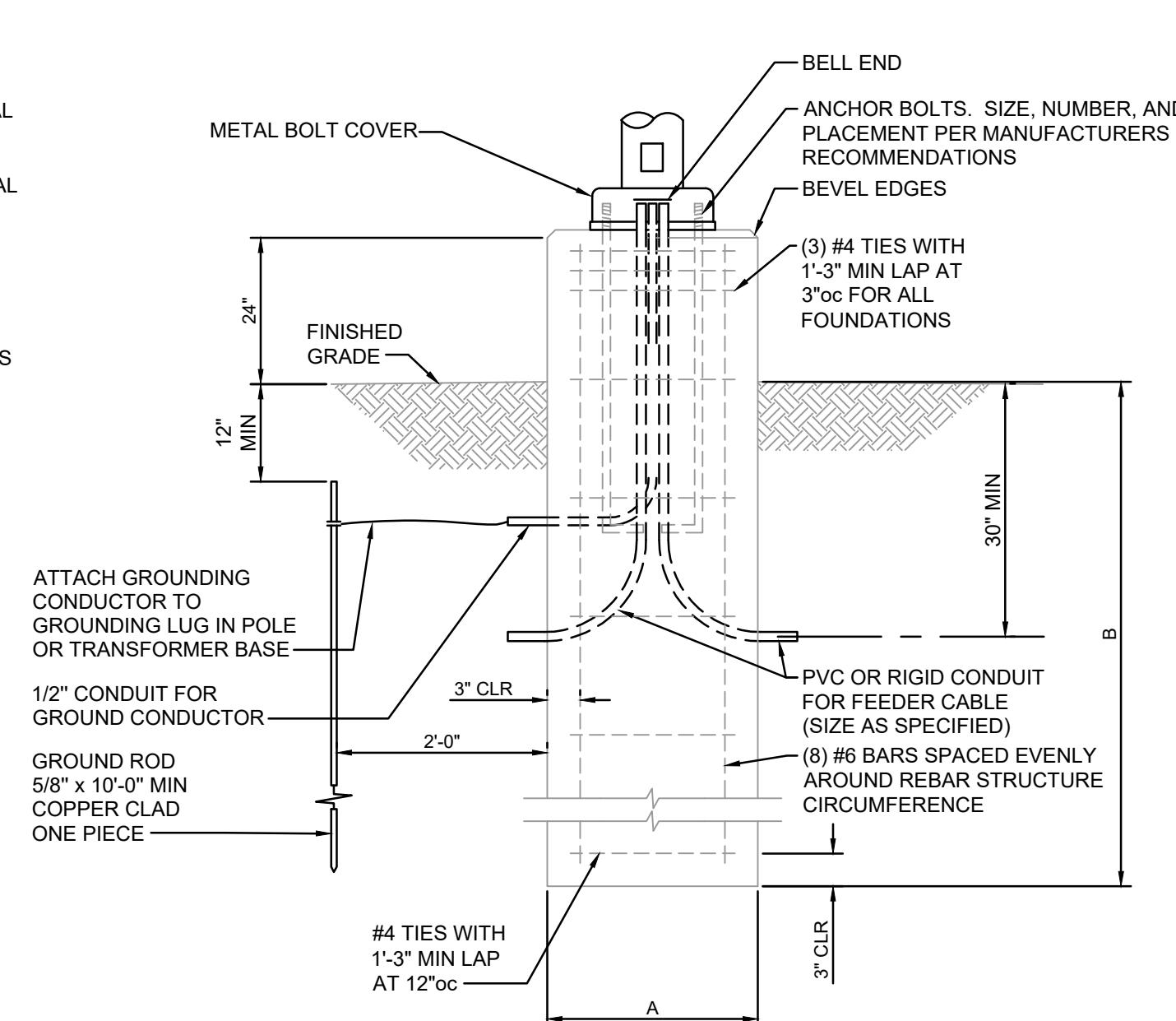
ALL HOOKS SHALL BE "STANDARD" PER ACI SPECIFICATIONS.

EARTHWORK

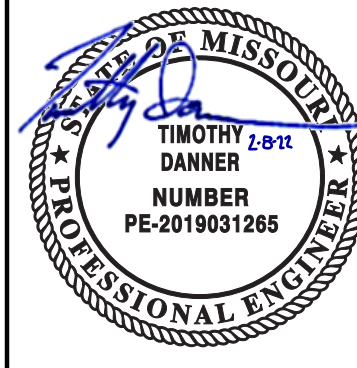
- E1. THE CONTRACTOR MUST PROVIDE SURFACE DRAINAGE AND PUMPS TO PROTECT ALL EXCAVATION FROM FLOODING. FLOODING OF ANY EXCAVATION AFTER APPROVAL OF THE SUBGRADE WILL BE CAUSE FOR RE-PREPARATION OF THE SUBGRADE.
- E2. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY WATER, FROST, OR ICE FROM PENETRATING ANY FOOTING OR SLAB SUBGRADE BEFORE AND AFTER PLACING OF CONCRETE AND UNTIL SUCH SUBGRADES ARE FULLY PROTECTED BY THE PERMANENT STRUCTURE.
- E3. REFER TO THE GEOTECH REPORT FOR SUBSURFACE CONDITIONS AND CONSTRUCTION CONSIDERATIONS.

LIGHT FOUNDATION DATA		
MOUNTING HEIGHT	A	B
UP TO 30'	2'-0"	6'-0"

HEAVY HEX GALVANIZED NUTS: (AASHTO M291, GR A)
FLAT WASHERS GALVANIZED: (AASHTO M293)



1 CONCRETE LIGHT POLE BASE

[illegible]

SITE LIGHTING DETAILS

PHASE I CONSTRUCTION DOCUMENTS

SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET

2021

6301

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olsson

SHEET
E3.00

