

1501 SW ARBORWALK BLVD.
LEE'S SUMMIT, MO



DEVELOPER:

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EMAIL: JROUDEBUSH@OLSSON.COM

EMAIL: JHODSON@OLSSON.COM



VICINITY MAP

THE TRACT OF LAND IN THE SOUTHWEST AND SOUTHEAST QUARTER OF SECTION 25, TOWNSHIP 47 NORTH, RANGE 32 WEST OF THE 5TH PRINCIPAL MERIDIAN IN LEE'S SUMMIT, JACKSON COUNTY MISSOURI BEING BOUNDED AND DESCRIBED BY OR UNDER THE DIRECT SUPERVISION OF JASON S. ROUDEBUSH, P.L.S., 2002014092 AS FOLLOWS: COMMENCING AT THE SOUTHEAST CORNER OF SAID SOUTHWEST QUARTER, ALSO BEING THE SOUTHWEST CORNER OF SAID SOUTHEAST QUARTER; THENCE SOUTH 87°53'43" EAST, 391.50 FEET TO THE SOUTHWEST CORNER OF AMENDED ARBORWALK 6TH PLAT, LOTS 3001 THRU 3003 AND TRACT 6-A, A TRACT OF LAND RECORDED IN JACKSON COUNTY RECORDER OF DEEDS OFFICE, 2000510063 IN BOOK 181 AT PAGE 53 IN JACKSON COUNTY RECORDER OF DEEDS OFFICE, THENCE NORTH 02°06'18" EAST, ON THE WESTERLY LINE OF SAID AMENDED ARBORWALK - 6TH PLAT, LOTS 3001 THRU 3003 AND TRACT 6-A, 70.00 FEET; THENCE NORTH 02°05'48" EAST, ON SAID WESTERLY LINE, 7.33 FEET TO A POINT ON THE EXISTING NORTHERLY RIGHT-OF-WAY LINE OF MISSOURI STATE HIGHWAY NO 150, AS ESTABLISHED BY A MISSOURI STATE HIGHWAY NO. 150 SURVEY RECORDED ON JULY 9, 2009 AS INSTRUMENT NUMBER 200908068194 IN SAID JACKSON COUNTY RECORDER OF DEEDS OFFICE AND ALSO BEING THE POINT OF BEGINNING OF THE TRACT OF LAND TO BE HEREIN DESCRIBED; THENCE NORTH 88°02'18" WEST, ON SAID EXISTING NORTHERLY RIGHT-OF-WAY LINE, 864.32 FEET TO A POINT OF BEGINNING OF THE RIGHT-OF-WAY OF AMENDED ARBORWALK 4TH PLAT, A-4 THRU K-4, RECORDED MAY 6, 2005 AS INSTRUMENT NUMBER 200510038320 IN BOOK 186 AT PAGE 73 IN SAID JACKSON COUNTY RECORDER OF DEEDS OFFICE; THENCE NORTHWESTERLY ON SAID EXISTING EASTERLY RIGHT-OF-WAY LINE, ON A CURVE TO THE RIGHT HAVING AN INITIAL TANGENT BEARING OF NORTH 63°56'56" WEST WITH A RADIUS OF 60.00 FEET, A CENTRAL ANGLE OF 66°03'30" AND AN ARC DISTANCE OF 69.18 FEET; THENCE NORTH 02°06'35" EAST, ON SAID EXISTING EASTERLY RIGHT-OF-WAY LINE, 143.75 FEET; THENCE NORTHERLY, ON SAID EXISTING EASTERLY RIGHT-OF-WAY LINE, ON A CURVE TO THE LEFT BEING TANGENT TO THE LAST DESCRIBED COURSE WITH A RADIUS OF 225.00 FEET, A CENTRAL ANGLE OF 26°44'04" AND AN ARC DISTANCE OF 150.48 FEET; THENCE NORTH 24°25'11" WEST, ON SAID EXISTING EASTERLY RIGHT-OF-WAY LINE, 240.58 FEET; THENCE NORTHERLY, ON SAID EXISTING EASTERLY RIGHT-OF-WAY LINE ON A CURVE TO THE RIGHT BEING TANGENT TO THE LAST DESCRIBED COURSE WITH A RADIUS OF 275.00 FEET, A CENTRAL ANGLE OF 36°32'00" AND AN ARC DISTANCE OF 175.35 FEET; THENCE NORTHEASTERLY, ON SAID EXISTING EASTERLY RIGHT-OF-WAY LINE, ON A CURVE TO THE RIGHT HAVING A COMMON TANGENT WITH THE LAST DESCRIBED COURSE WITH A RADIUS OF 84.00 FEET, A CENTRAL ANGLE OF 100°32'29" AND AN ARC DISTANCE OF 100.32 FEET; THENCE NORTHEAST, ON SAID EXISTING EASTERLY RIGHT-OF-WAY LINE, 157.74 FEET; AS ESTABLISHED BY SAID ARBORWALK 4TH PLAT, A-4 THRU K-4; THENCE SOUTH 67°20'42" EAST, ON SAID EXISTING SOUTHERLY RIGHT-OF-WAY LINE, 59.12 FEET; THENCE SOUTHEASTERLY, ON SAID EXISTING SOUTHERLY RIGHT-OF-WAY LINE ON A CURVE TO THE RIGHT HAVING AN INITIAL TANGENT BEARING OF SOUTH 67°20'44" EAST WITH A RADIUS OF 420.00 FEET, A CENTRAL ANGLE OF 15°11'39" AND AN ARC DISTANCE OF 111.38 FEET; THENCE SOUTH 52°09'04" EAST, ON SAID EXISTING SOUTHERLY RIGHT-OF-WAY LINE, 113.01 FEET; THENCE EASTERLY, ON SAID EXISTING SOUTHERLY RIGHT-OF-WAY LINE, ON A CURVE TO THE LEFT BEING TANGENT TO THE LAST DESCRIBED COURSE WITH A RADIUS OF 480.00 FEET, A CENTRAL ANGLE OF 35°42'22" AND AN ARC DISTANCE OF 109.99 FEET; THENCE EASTERLY, ON SAID EXISTING SOUTHERLY RIGHT-OF-WAY LINE, 157.74 FEET; THENCE EASTERLY, ON SAID EXISTING SOUTHERLY RIGHT-OF-WAY LINE, ON A CURVE TO THE RIGHT HAVING AN INITIAL TANGENT BEARING OF SOUTH 87°51'23" EAST WITH A RADIUS OF 470.00 FEET, A CENTRAL ANGLE OF 22°40'59" AND AN ARC DISTANCE OF 186.07 FEET; THENCE SOUTH 65°10'24" EAST, ON SAID EXISTING SOUTHERLY RIGHT-OF-WAY LINE, 183.16 FEET; THENCE SOUTHEASTERLY, ON SAID EXISTING SOUTHERLY RIGHT-OF-WAY LINE, ON A CURVE TO THE LEFT BEING TANGENT TO THE LAST DESCRIBED COURSE WITH A RADIUS OF 530.03 FEET, A CENTRAL ANGLE OF 02°47'35" AND AN ARC DISTANCE OF 25.84 FEET TO THE NORTHEAST CORNER OF SAID AMENDED ARBORWALK 6TH PLAT, LOTS 3001 THRU 3003 AND TRACT 6-A; THENCE ALONG A LINE TO THE NORTHEAST CORNER TO SAID CORNER 36" WEST, ON SAID WESTERLY LINE OF SAID AMENDED ARBORWALK 6TH PLAT, LOTS 3001 THRU 3003 AND TRACT 6-A; 92.90 FEET; THENCE SOUTH 02°05'48" WEST, ON SAID WESTERLY LINE, 41.91 FEET; THENCE NORTH 87°54'12" WEST, ON SAID WESTERLY LINE, 66.85 FEET; THENCE SOUTH 02°05'48" WEST, ON SAID WESTERLY LINE, 217.62 FEET TO THE POINT OF BEGINNING, CONTAINING 516,669 SQUARE FEET OR 11.86 ACRES, MORE OR LESS.

| Sheet List Table | |
|------------------|---------------------------------------|
| Sheet Number | Sheet Title |
| C0.0 | TITLE SHEET |
| C1.0 | GENERAL NOTES |
| C2.0 | EXISTING CONDITIONS & DEMOLITION PLAN |
| C3.0 | SITE PLAN |
| C3.1 | OVERALL DIMENSION PLAN |
| C3.2 | DIMENSION PLAN (A) |
| C3.3 | DIMENSION PLAN (B) |
| C3.4 | DIMENSION PLAN (C) |
| C3.5 | DIMENSION PLAN (D) |
| C3.6 | FIRE LANE PLAN |
| C4.0 | OVERALL GRADING PLAN |
| C4.1 | SPOT ELEVATIONS (A) |
| C4.2 | SPOT ELEVATIONS (B) |
| C4.3 | SPOT ELEVATIONS (C) |
| C4.4 | SPOT ELEVATIONS (D) |
| C4.5 | GRADING DETAILS |
| C4.6 | GRADING DETAILS |
| C5.0 | OVERALL UTILITY PLAN |
| C6.0 | STORMWATER MANAGEMENT PLAN |
| C7.0 | STORM PLAN & PROFILE |
| C7.1 | STORM PLAN & PROFILE |
| C7.2 | STORM PLAN & PROFILE |
| C7.3 | STORM PLAN & PROFILE |
| C7.4 | STORM PLAN & PROFILE |
| C7.5 | STORM PLAN & PROFILE |
| C7.6 | STORM PLAN – DOWNSPOUT CONNECTION A |
| C7.8 | STORM DESIGN TABLES |
| C8.0 | SANITARY SEWER PLAN |
| C9.0 | WATER PLAN & PROFILE |
| C9.1 | WATER PLAN & PROFILE |
| C9.2 | WATER PLAN & PROFILE |
| C9.3 | WATER PLAN & PROFILE |
| C9.4 | WATER PLAN & PROFILE |
| C9.5 | WATER PLAN & PROFILE |
| C10.0 | CONSTRUCTION DETAILS |
| C10.1 | CONSTRUCTION DETAILS |
| L1.0 | LANDSCAPE NOTES |
| L1.1 | LANDSCAPE PLAN |
| L1.2 | LANDSCAPE DETAILS |
| L1.3 | TRASH ENCLOSURE |
| L1.4 | GENERATOR SCREEN |
| A2.01 | ARCHITECTURAL ELEVATIONS |
| A2.02 | ARCHITECTURAL ELEVATIONS |
| A2.03 | ARCHITECTURAL ELEVATIONS |
| A2.04 | ARCHITECTURAL ELEVATIONS |
| E1.1 | ELECTRICAL SITE PLAN |

STATE OF MISSOURI
JULIE ELAINE
SELLERS
NUMBER
PE-2017000367
3/2/23
PROFESSIONAL ENGINEER

Olsson - Civil Engineering
Missouri Certificate of Authority #
1301 Burlington Street
North Kansas City, MO 64111

[illegible]

RAINTREE VILLAGE FINAL DEVELOPMENT PLAN

LEE'S SUMMIT. MO.

drawn by: _____ CSM
checked by: _____ CSM
approved by: _____ JS
QA/QC by: _____ JS
project no.: _____ A21-04054
drawing no.: C_TTL01_A2104054
date: _____ 08.10.2022

SHEET
C0.0

USER: jhodson

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NO OIL OR GAS WELLS ARE LOCATED ON THE PROPERTY.
INFORMATION VERIFIED VIA MISSOURI DNR
<https://dnr.mo.gov/geology/geosrv/oilandgas.htm>

<https://dnr.mo.gov/geology/geosrv/oilandgas.htm>

REFERENCES

- ## EXISTING CONDITIONS

- ## SHOP DRAWINGS

- ### GRADING PLAN NOTES

- ## SANITARY SEWER PLAN NOTES

- ## WATER PLAN NOTES

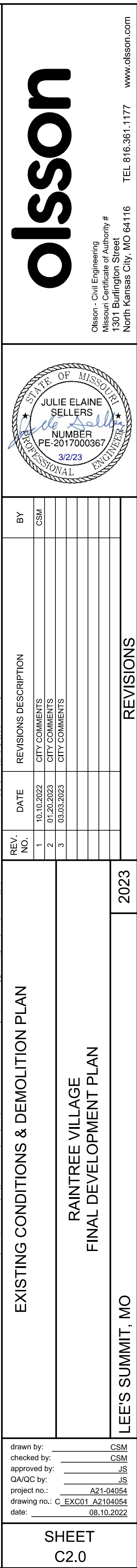
1. ALL NECESSARY DEMOLITION IS EXPECTED TO BE PERFORMED AS INDICATED IN THE SITE DISTURBANCE, MASS GRADING, AND PUBLIC IMPROVEMENT PLANS. CONTRACTOR SHALL CONTACT ENGINEER AND OWNER PRIOR TO PERFORMING ANY ADDITIONAL DEMOLITION ACTIVITIES.
2. THE CONTRACTOR SHALL COORDINATE ALL ITEMS TO BE SALVAGED AND/OR PROTECTED WITH SITE OWNER AND UTILITY OWNERS.
3. THE CONTRACTOR SHALL NOT INTERRUPT ANY UTILITY SERVICES TO ANY ADJACENT PROPERTIES. SHOULD ANY INTERRUPTIONS BECOME NECESSARY, THE CONTRACTOR SHALL COORDINATE WITH THE ADJACENT PROPERTY AND UTILITY OWNER AND MINIMIZE THE LENGTH OF TIME THE UTILITY IS INTERRUPTED TO THE GREATEST EXTENT POSSIBLE.
4. SECONDARY WIRING, SERVICES, IRRIGATION AND OTHER MINOR SITE IMPROVEMENTS THAT ARE NOT TO REMAIN IN SERVICE ARE TO BE DEMOLISHED AND REMOVED.
5. ALL PAVEMENT SAWCUTS ARE TO BE MADE IN STRAIGHT, CLEAN LINES LEAVING A CLEAN AND STABLE EDGE AT FULL PAVEMENT DEPTH.
6. ALL PCC PAVEMENT AND ALL CURB SHALL BE REMOVED TO NEAREST JOINT.
7. ALL MATERIALS REMOVED FROM THE SITE SHALL BE DISPOSED OF IN STRICT CONFORMANCE WITH LOCAL CODES AND ORDINANCES.
8. ALL TREE REMOVAL SHALL INCLUDE STUMPS AND ROOTS. DEPRESSIONS CREATED SHALL BE FILLED TO PROVIDE DRAINAGE.

DRY UTILITY PLAN NOTES

1. PRIOR TO COMMENCEMENT OF WORK THE CONTRACTOR SHALL NOTIFY AND COORDINATE CONSTRUCTION WITH UTILITY OWNER.
2. ALL ON-SITE WIRING AND CABLES SHALL BE PLACED UNDERGROUND AND WITHIN CONDUIT UNLESS OTHERWISE SPECIFIED IN THESE PLANS. IF NOT SPECIFIED, ALL CONDUIT SHALL BE IN CONFORMANCE WITH UTILITY OWNER STANDARDS AND SPECIFICATIONS.
3. TELEPHONE AND COMMUNICATION SERVICE ROUTING AND CONDUITS, IF ANY, SHALL BE SUGGESTED ALIGNMENTS ONLY. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AS REQUIRED BY MEP AND RELATED PLANS AS WELL AS SERVICE PROVIDER PRIOR TO PAVEMENT INSTALLATION.
4. ALL CONDUIT SHALL BE SCHEDULE 40 PVC PIPE AND SIZED PER MEP PLANS. AS NOTED, CONDUIT SHALL BE SUFFICIENTLY FLEXIBLE TO ALLOW IT TO CONFORM TO MINOR CHANGES IN TRENCH DIRECTION OR ELEVATION. ALL OTHER BENDS SHALL BE MADE USING PRE-FORMED SWEEPS.

[illegible]

drawn by: _____ CSM
checked by: _____ CSM
approved by: _____ JS
QA/QC by: _____ JS
project no.: _____ A21-04054
drawing no.: C TTL01 A2104054
date: _____ 08.10.2022

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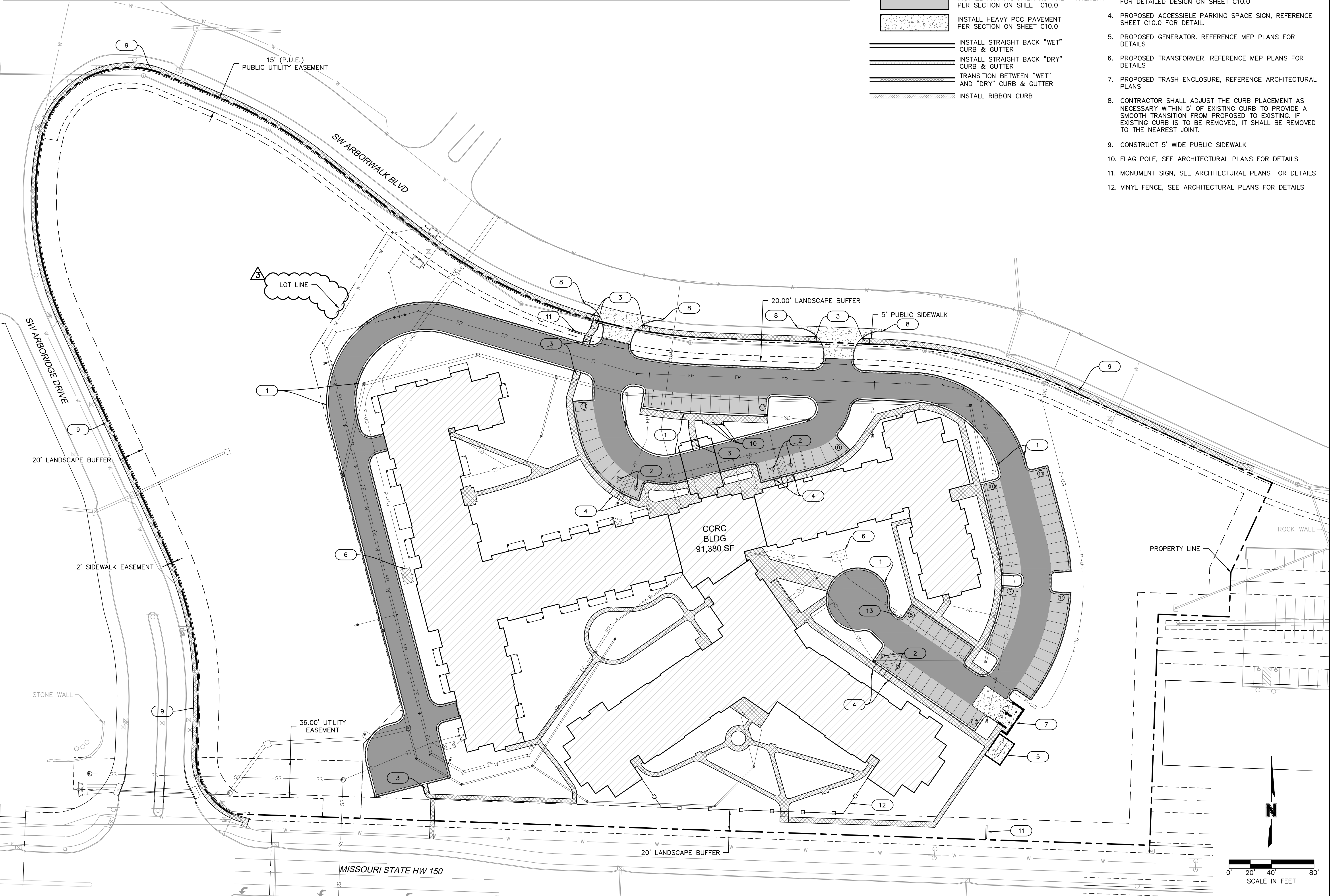
| | | |
|---------------------------------------|--|----|
| EXISTING CONDITIONS & DEMOLITION PLAN | RAINTREE VILLAGE FINAL DEVELOPMENT PLAN | MO |
|---------------------------------------|--|----|

| | |
|------------------|----|
| LEE'S SUMMIT, MO | EX |
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drawn by: _____ CSM
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project no.: _____ A21-04054
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date: _____ 08.10.2022

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USER: jbedson C_PTLK_A2104054

| SITE DEVELOPMENT DATA | | | | | | | | | | | | | | | | | | |
|---|------------------|------------------|----------------|-----------------|--------------------------------------|---------------------------------|---------------------------------|------------------------|--------|---------------------|-----------|-----------------|---|-----------|----------------|---------------------|------------------------------|---------------------|
| PHASE | Number of Floors | GROSS AREA (AC.) | NET AREA (AC.) | LAND USE | GROSS FLOOR AREA PARKING GARAGE (SF) | GROSS FLOOR AREA 1ST FLOOR (SF) | GROSS FLOOR AREA 2ND FLOOR (SF) | BUILDING COVERAGE (SF) | F.A.R. | # OF Dwelling Units | # OF BEDS | MAX # EMPLOYEES | PARKING STALLS REQUIRED | | | OPEN SPACE (SF / %) | IMPERVIOUS COVERAGE (SF / %) | |
| | | | | | | | | | | | | | RATIO | REQUIRED* | PROVIDED | | | |
| Main Campus (ALU, ILU, SNF Wings) | 2 | 11.86 | 11.86 | Skilled Nursing | 23,471 | 85,707 | 52,124 | 161,302 | 0.31 | 126 | 138 | 62 | 1 Space for 2 beds (138/2) + 1 Space (plus1) employee on max shift (62+1) | 131 | Surface Garage | 91 46 | 338,012.57 SF 65.4% | 178,609.03 SF 34.6% |
| *PARKING CALCULATIONS BASED ON NUMBER OF BEDS OF RESIDENTS ALLOWED TO OWN AND OPERATE VECHICALS | | | | | | | | | | | | | | | TOTAL | 137 | | |



LEGEND

- INSTALL SIDEWALK PER SECTION ON SHEET C10.0
- INSTALL DRIVE AREA ASPHALT PAVEMENT PER SECTION ON SHEET C10.0
- INSTALL PARKING AREA ASPHALT PAVEMENT PER SECTION ON SHEET C10.0
- INSTALL HEAVY PCC PAVEMENT PER SECTION ON SHEET C10.0
- INSTALL STRAIGHT BACK "WET" CURB & GUTTER
- INSTALL STRAIGHT BACK "DRY" CURB & GUTTER
- TRANSITION BETWEEN "WET" AND "DRY" CURB & GUTTER
- INSTALL RIBBON CURB

KEYNOTES (X)

- CONSTRUCT CONCRETE CURB & GUTTER, SEE LEGEND.
- ACCESSIBLE PARKING AND RELATED CURB RAMP. SEE SPOT ELEVATION DETAILS FOR DETAILED DESIGN ON SHEET C4.5-C4.6.
- ACCESSIBLE CURB RAMP. SEE SPOT ELEVATION DETAILS FOR DETAILED DESIGN ON SHEET C10.0
- PROPOSED ACCESSIBLE PARKING SPACE SIGN, REFERENCE SHEET C10.0 FOR DETAIL.
- PROPOSED GENERATOR. REFERENCE MEP PLANS FOR DETAILS
- PROPOSED TRANSFORMER. REFERENCE MEP PLANS FOR DETAILS
- PROPOSED TRASH ENCLOSURE, REFERENCE ARCHITECTURAL PLANS
- CONTRACTOR SHALL ADJUST THE CURB PLACEMENT AS NECESSARY WITHIN 5' OF EXISTING CURB TO PROVIDE A SMOOTH TRANSITION FROM PROPOSED TO EXISTING. IF EXISTING CURB IS TO BE REMOVED, IT SHALL BE REMOVED TO THE NEAREST JOINT.
- CONSTRUCT 5' WIDE PUBLIC SIDEWALK
- FLAG POLE, SEE ARCHITECTURAL PLANS FOR DETAILS
- MONUMENT SIGN, SEE ARCHITECTURAL PLANS FOR DETAILS
- VINYL FENCE, SEE ARCHITECTURAL PLANS FOR DETAILS

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STATE OF MISSOURI
JULIE ELAINE
SELLERS
NUMBER
PE-2017000367
3/2/23
PROFESSIONAL

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|----------|------------|-----------------------|-----|
| 1 | 10.10.2022 | CITY COMMENTS | CSM |
| 2 | 01.20.2023 | CITY COMMENTS | |
| 3 | 03.03.2023 | CITY COMMENTS | |

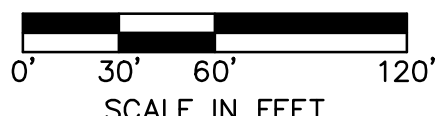
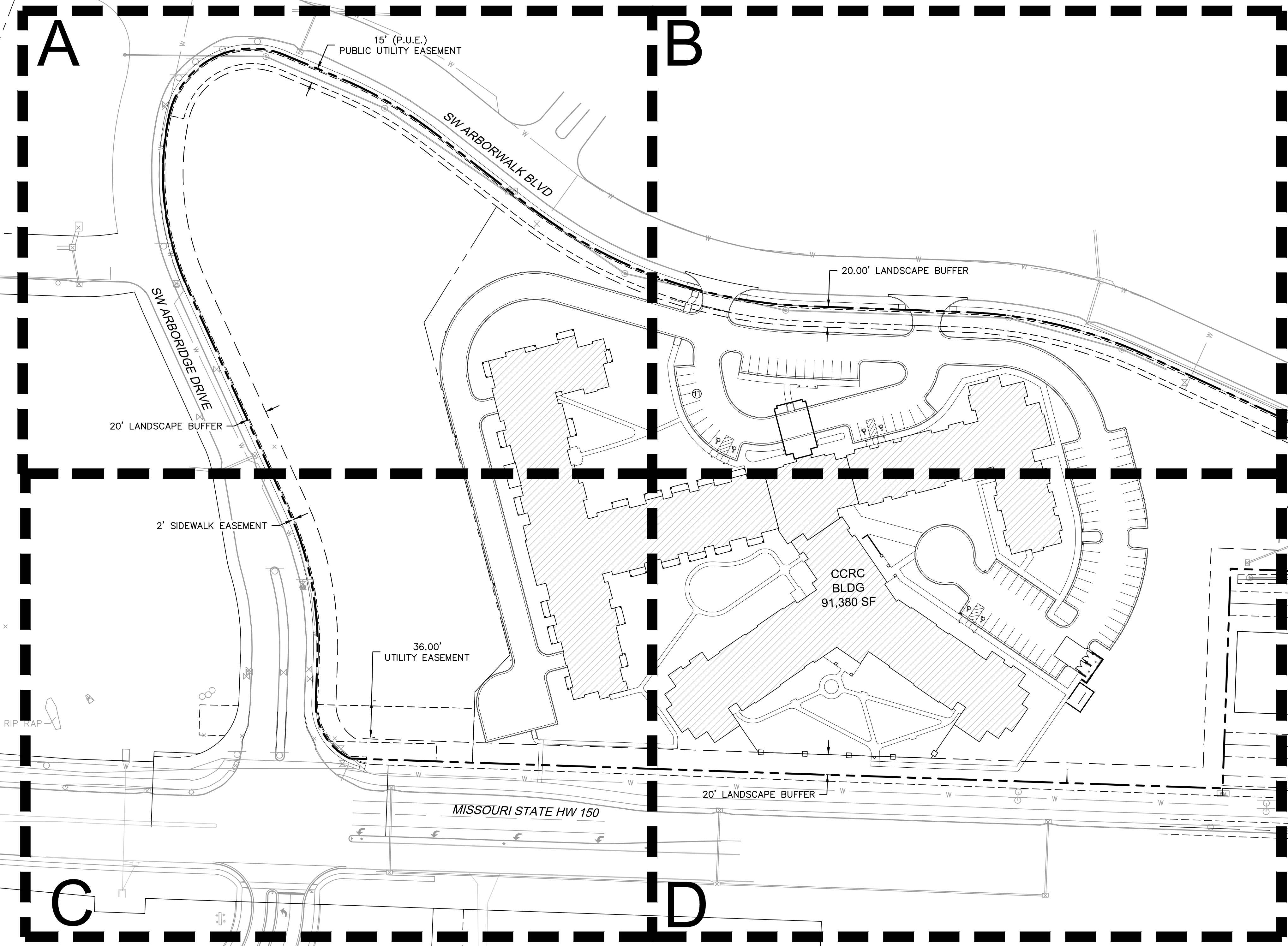
REVISIONS

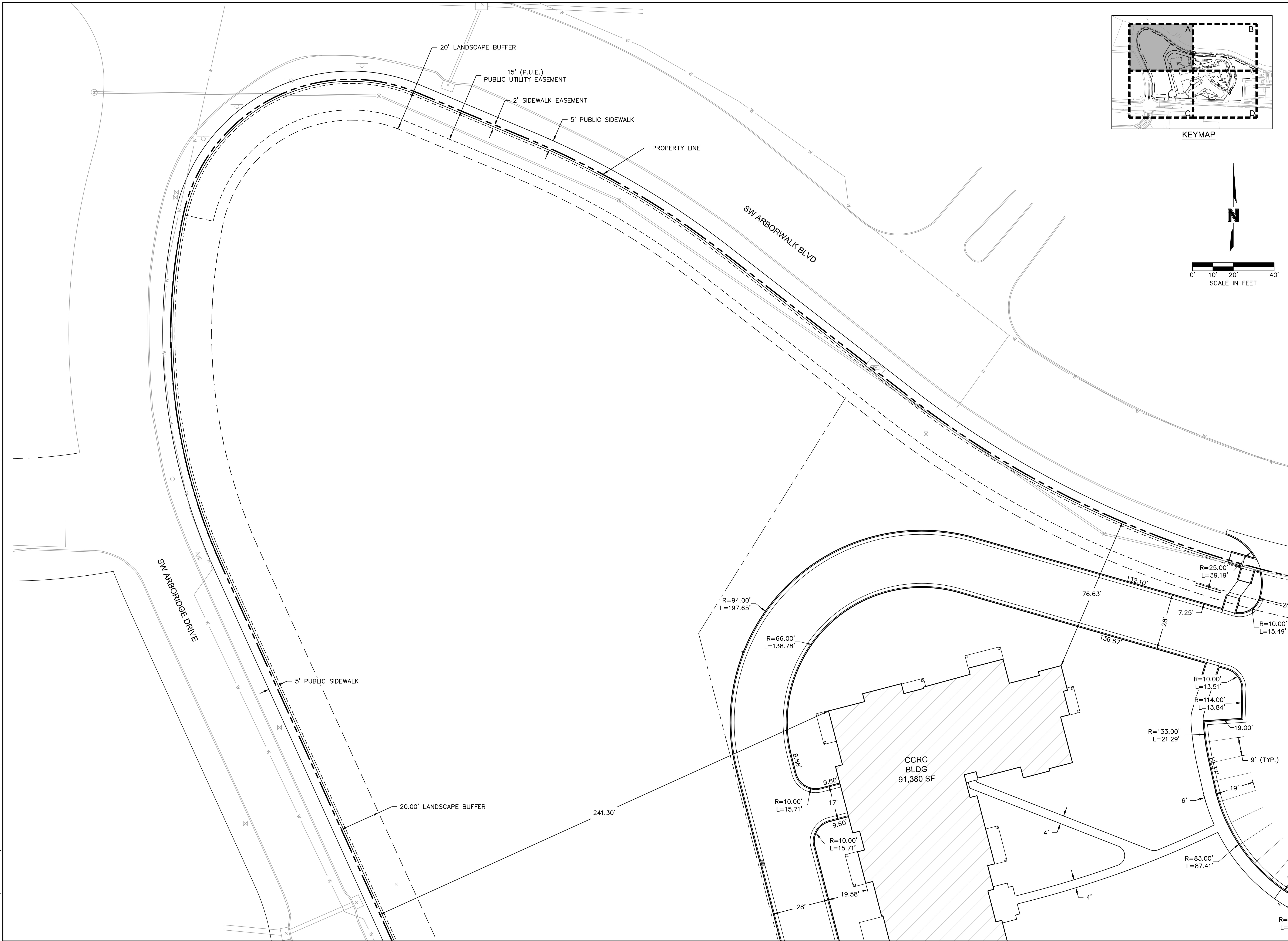
SITE PLAN
RAINTREE VILLAGE
FINAL DEVELOPMENT PLAN
LEE'S SUMMIT, MO

2023

drawn by: CSM
checked by: CSM
approved by: JS
QA/QC by: JS
project no.: A21-04054
drawing no.: C-ST01_A2104054
date: 08.10.2022

SHEET
C3.0



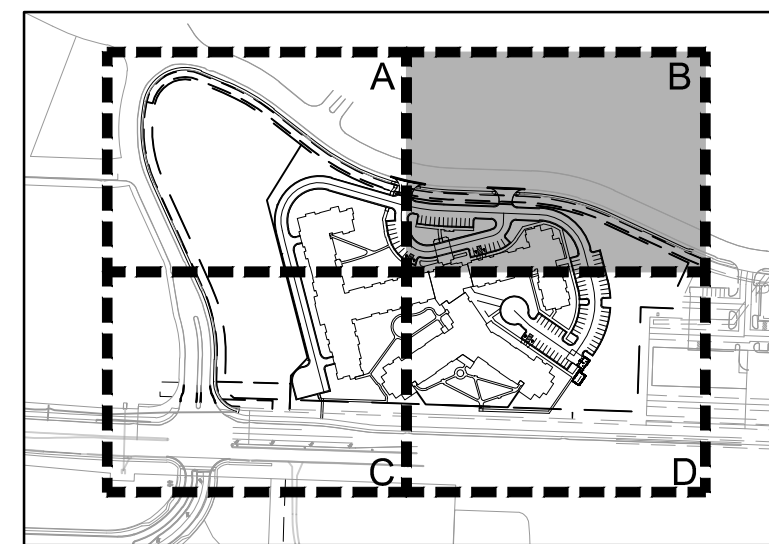


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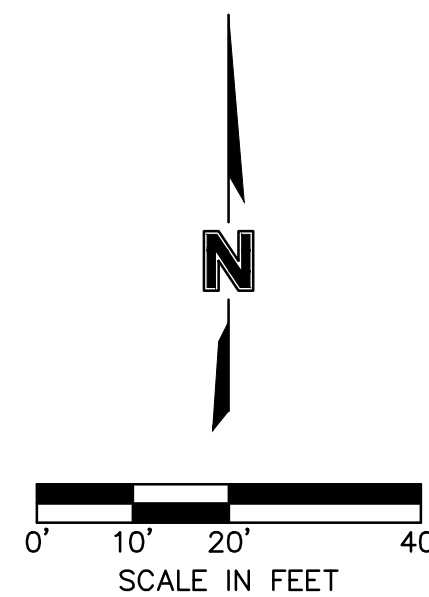
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KEYNOTES X

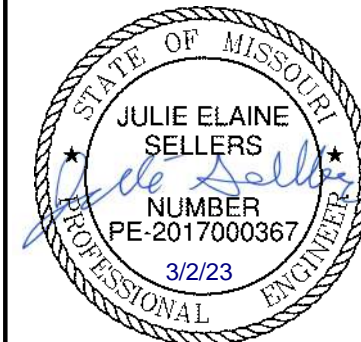
1. SEE TYPICAL ADA PARKING SPACE LAYOUT DETAIL ON SHEET C10.0 AND GRADING DETAILS SHEET C4.5-C4.6 FOR ADA DIMENSION DETAILS



KEYMAP



SCALE IN FEET



Olsson - Civil Engineering
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North Kansas City, MO 64117

TEI 816 361 1177
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BY _____

CSM

REVISIONS DESCRIPTION

CITY COMMENTS

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REVISIONS

2023

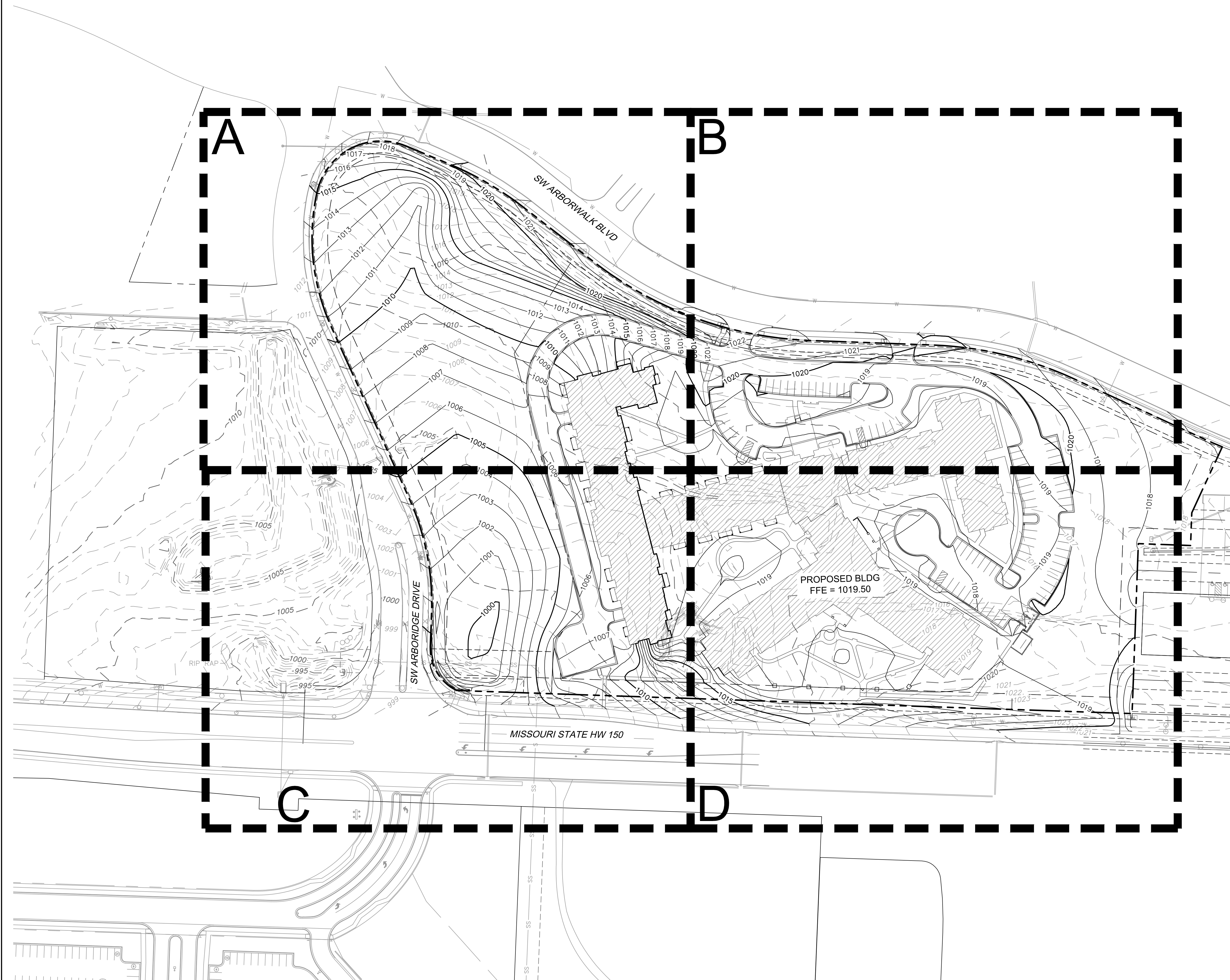
LEE'S SUMMIT MO

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RAINTREE VILLAGE FINAL DEVELOPMENT PLAN

drawn by: _____ CSM
checked by: _____ CSM
approved by: _____ JS
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project no.: _____ A21-04054
drawing no.: C SIT02 A2104054
date: _____ 08.10.2022

SHEET
C3.3



GRADING PLAN LEGEND

—————1020————— FINISHED GRADE MAJOR CONTOUR
 —————1021————— FINISHED GRADE MINOR CONTOUR
 - - - - -1020- - - - - EXISTING GRADE MAJOR CONTOUR
 - - - - -1021- - - - - EXISTING GRADE MINOR CONTOUR
 ————— PROPOSED PROPERTY LINE

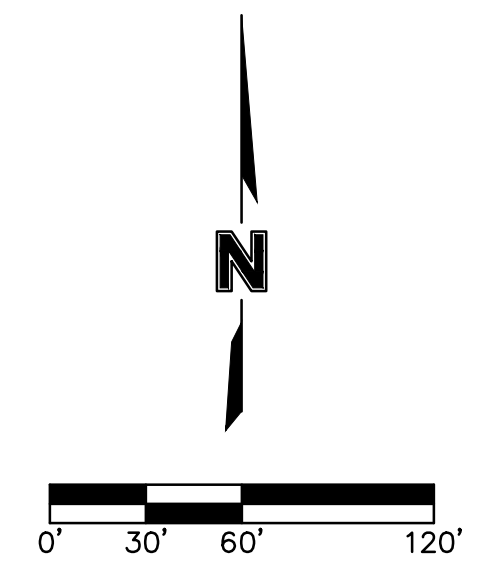
GRADING PLAN NOTES

1. THE FINISHED GRADE CONTOUR LINES, SPOT ELEVATIONS AND BUILDING FLOOR ELEVATIONS SHOWN ARE TO SURFACE OF PAVEMENT, FINISHED GRADE EXCLUDING GRADES ADJACENT TO STRUCTURES ETC. REFER TO TYPICAL SECTIONS FOR PAVING, SLAB AND AGGREGATE BASE THICKNESS TO DEDUCT PAVEMENT DEPTH FROM ELEVATIONS SHOWN.
2. THE CONTRACTOR SHALL FINISH GRADE SLOPES AS SHOWN NO STEEPER THAN 1 FOOT VERTICAL IN 3 FEET HORIZONTAL.
3. THE CONTRACTOR SHALL GRADE LANDSCAPED AREAS TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING AND SIDEWALKS WHEN FINISH LANDSCAPE MATERIALS ARE IN PLACE. THE CONTRACTOR SHALL CONTACT THE ENGINEER REGARDING ANY LOCATIONS WHERE THIS MAY NOT BE FEASIBLE.
4. SPOT ELEVATIONS ARE TO EDGE OF PAVEMENT, LIP OF CURB, OR FINISHED GRADE UNLESS OTHERWISE INDICATED. (SEE LEGEND)

| EARTHWORK QUANTITIES | | |
|----------------------|-------------|---------------|
| CUT (C.Y.) | FILL (C.Y.) | NET (C.Y.) |
| 14,832 | 36,703 | 21,871 (FILL) |













EARTHWORK QUANTITIES NOTES:

1. EARTHWORK QUANTITIES BASED ON FINISHED GRADE SURFACE AND DO NOT INCLUDE ADJUSTMENTS FOR TOPSOIL AND SHRINKAGE.
2. EARTHWORK QUANTITIES DO NOT TAKE INTO CONSIDERATION EXCAVATION, REMOVAL AND DISPOSAL OF MATERIAL DEEMED UNSUITABLE BY A GEOTECHNICAL ENGINEER. THE EARTHWORK CONTRACTOR IS RESPONSIBLE FOR EXCAVATION, REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL AND FOR REPLACING IT WITH SUITABLE MATERIAL.



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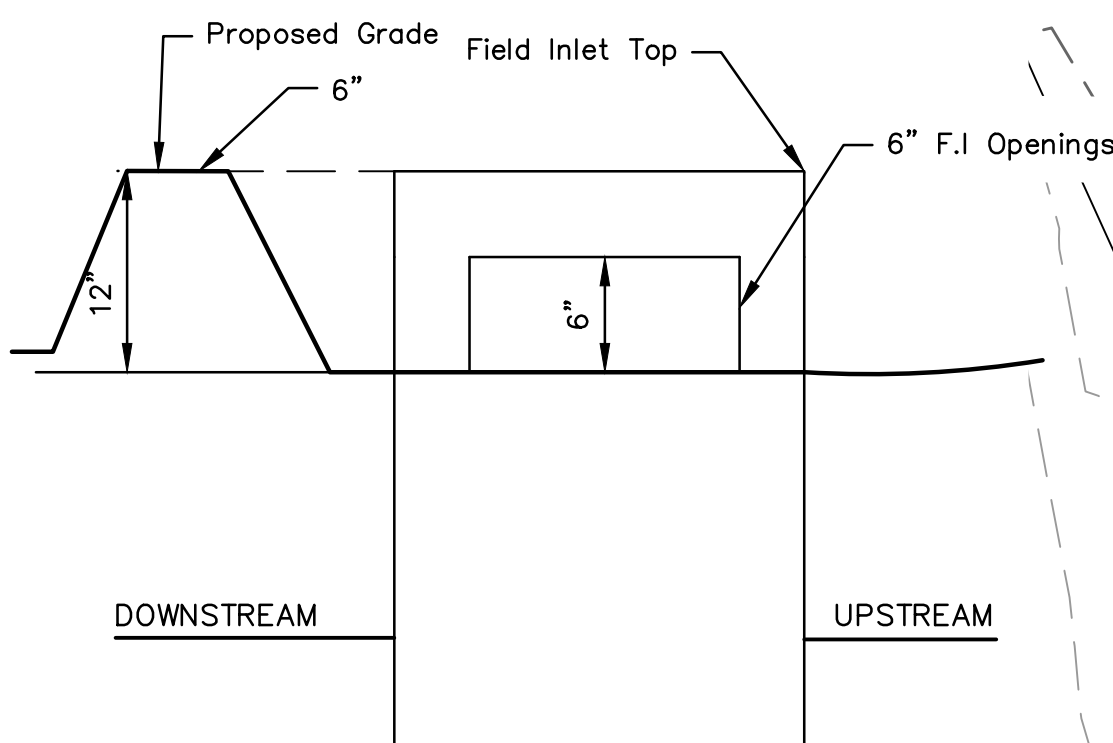
LEGEND

- | | |
|---|---|
|  | FINISHED GRADE MAJOR CONTOUR |
|  | FINISHED GRADE MINOR CONTOUR |
|  | EXISTING GRADE MAJOR CONTOUR |
|  | EXISTING GRADE MINOR CONTOUR |
|  | PROPOSED PROPERTY LINE |
|  | PROPOSED FLOWLINE |
|  | PROPOSED RIDGE LINE |
|  | INSTALL STRAIGHT BACK "WET" CURB & GUTTER |
|  | INSTALL STRAIGHT BACK "DRY" CURB & GUTTER |
|  | TRANSITION BETWEEN "WET" AND "DRY" CURB & GUTTER |
|  | INSTALL RIBBON CURB |
|  | TURF REINFORCEMENT MAT |

SPOT ELEVATION LEGEND:

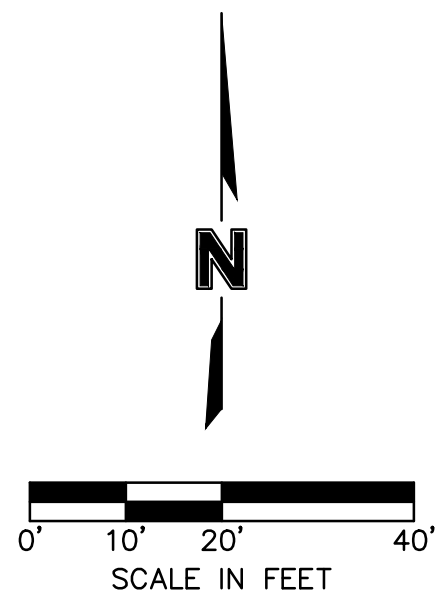
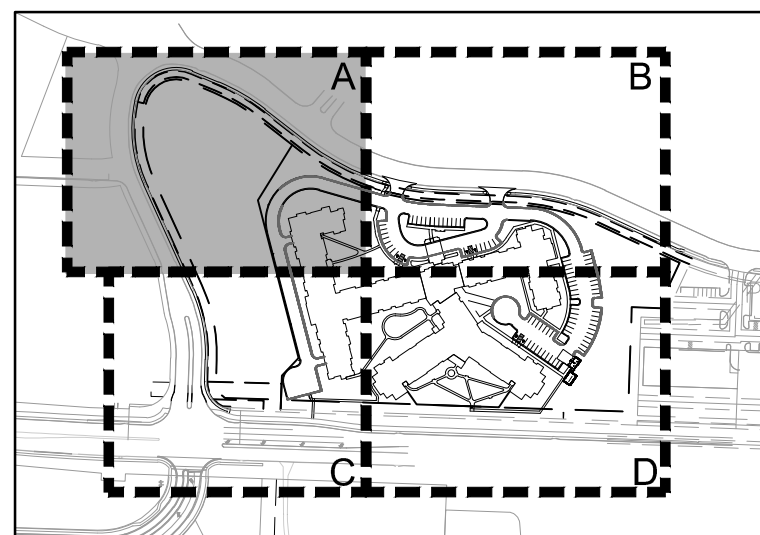
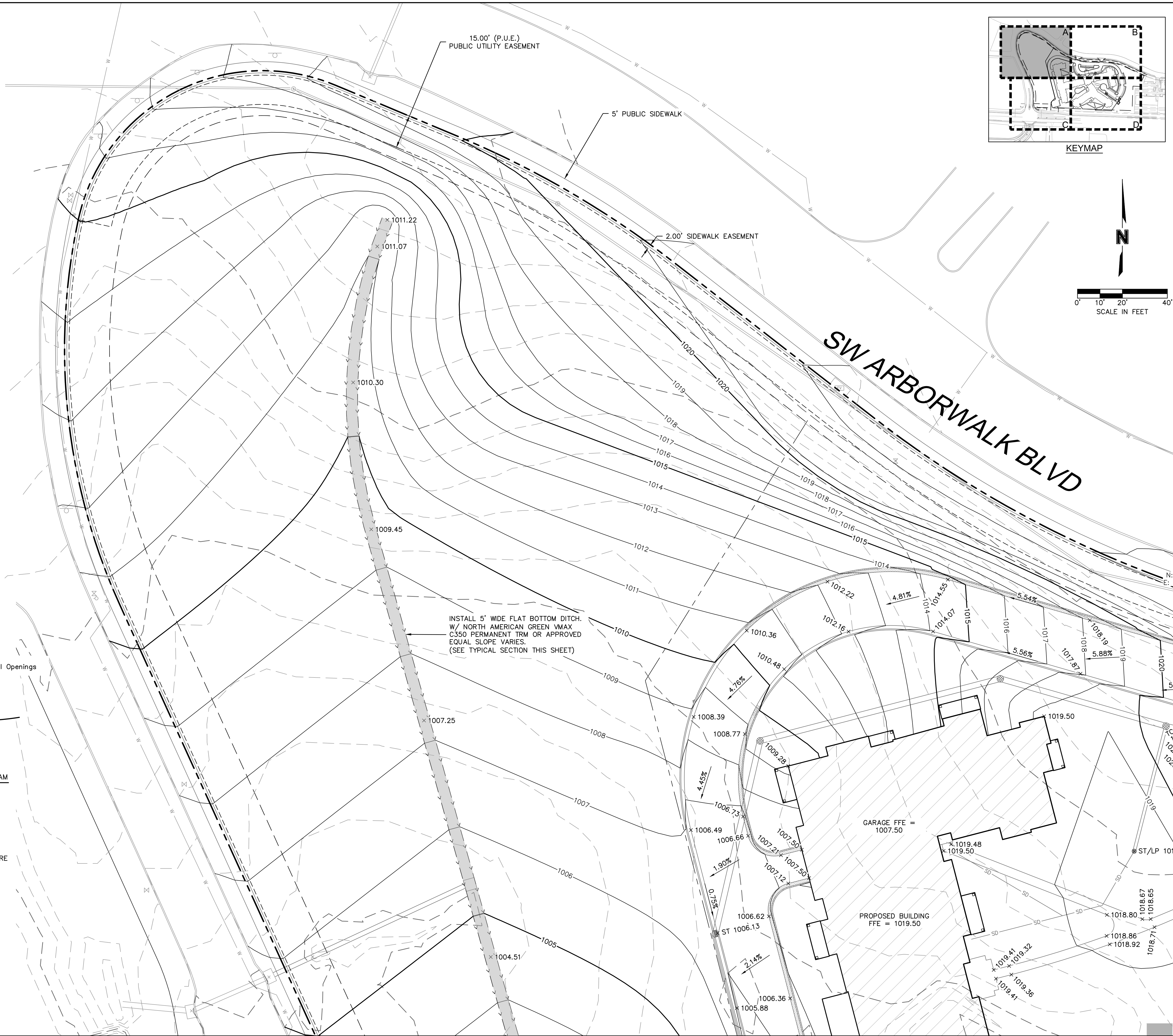
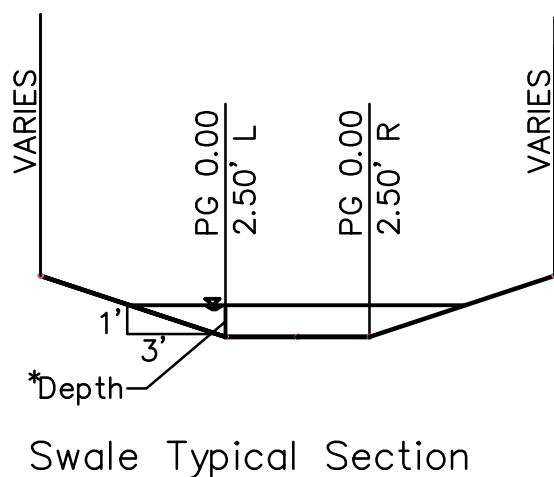
ALL SPOT ELEVATIONS ARE TO EDGE OF PAVEMENT, LIP OF CURB, AND/OR FINISHED GRADE UNLESS OTHERWISE SPECIFIED AS BELOW. SPOT ELEVATIONS AT FACE OF STRUCTURES INDICATES FEATURES ADJACENT TO STRUCTURE, NOT THE STRUCTURE ITSELF.

FFE FINISHED FLOOR ELEVATION
HP HIGH POINT
LP LOW POINT
TC TOP OF CURB AT BACK
TS TOP OF STRUCTURE
ME MATCH EXISTING
PV PAVEMENT



F.I SUMP DETAIL
NOT TO SCALE

NOTE: INCLUDE SUMP PER ABOVE DETAIL WHERE
FIELD INLETS ARE LOCATED WITHIN SWALES.



SPOT ELEVATIONS (A)

RAINTREE VILLAGE FINAL DEVELOPMENT PLAN

LEE'S SUMMIT, MO

SHEET
C4.1

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|-------------|------|-----------------------|----|
|-------------|------|-----------------------|----|

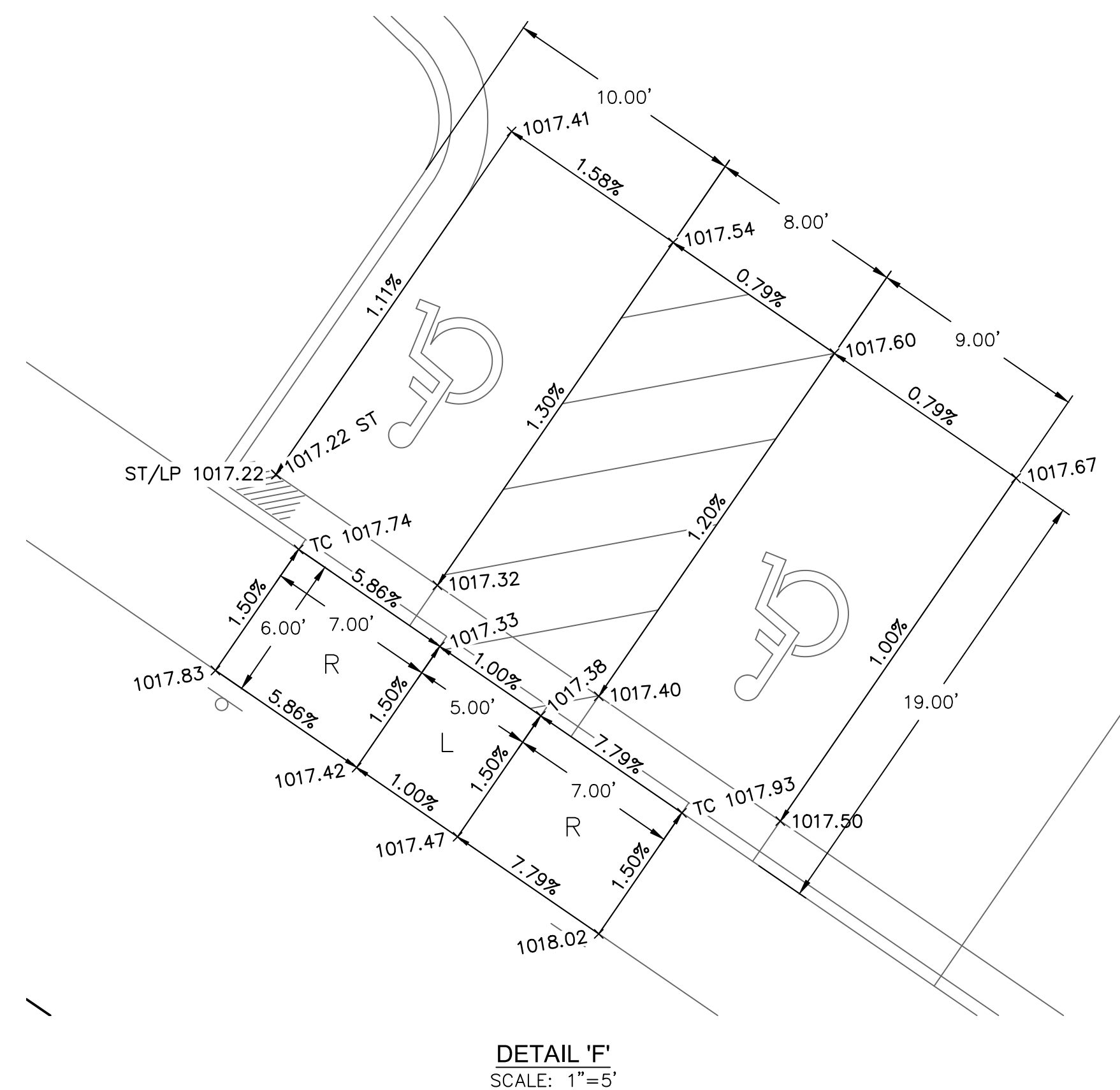
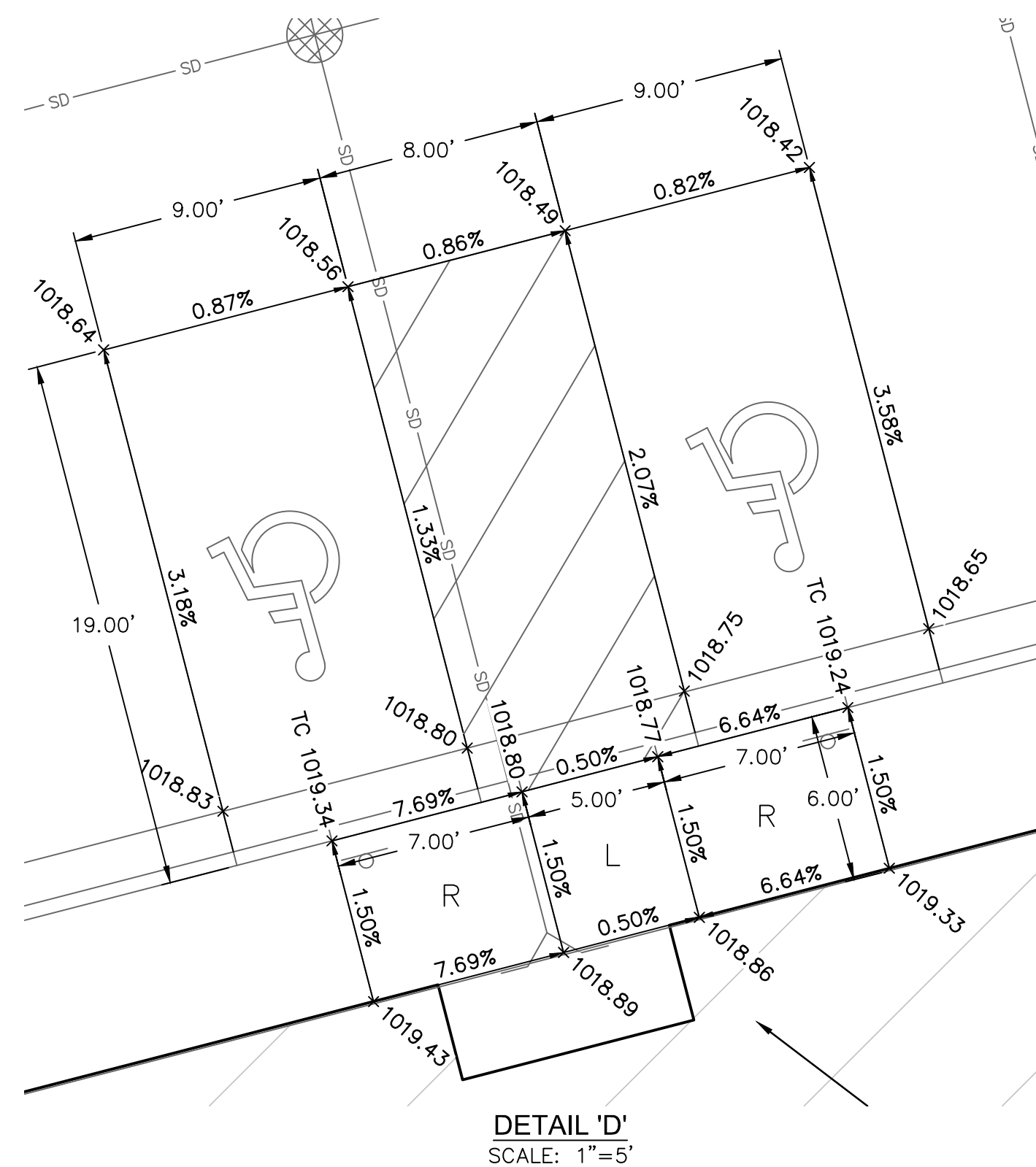
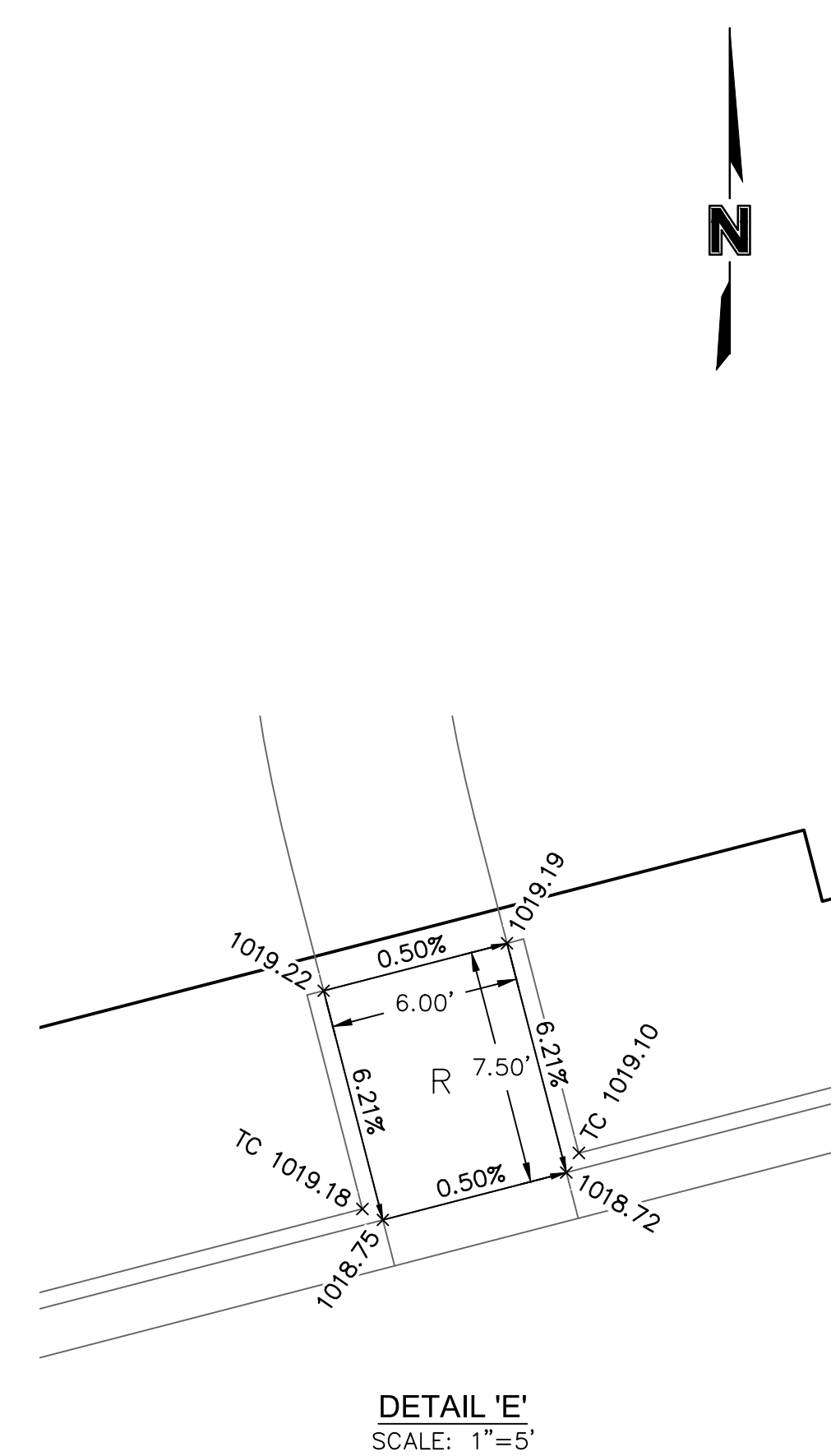
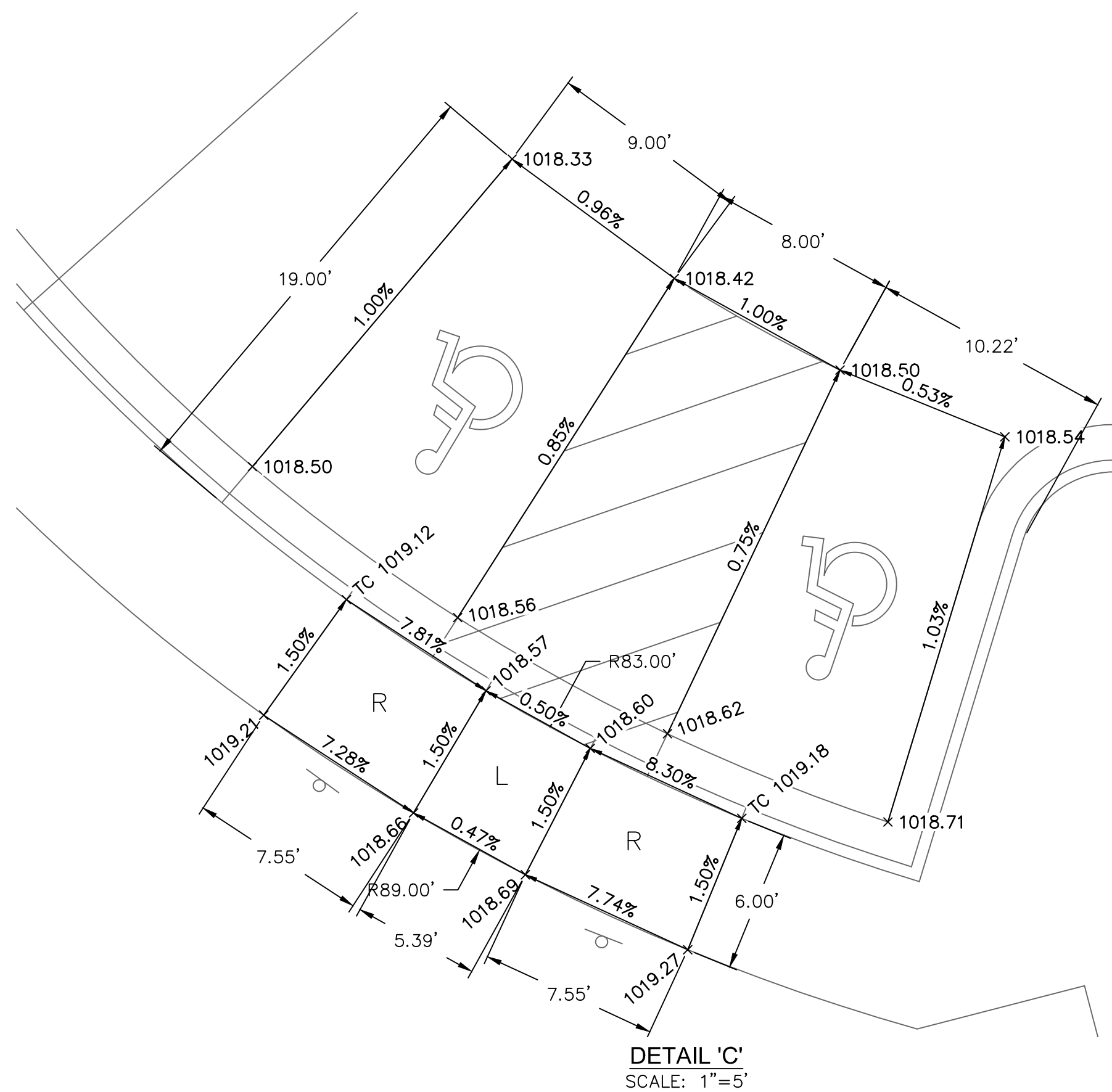
REVISIONS

2023

STATE OF MISSOURI
JULIE ELAINE
SELLERS
NUMBER
PE-2017000367
3/2/23
PROFESSIONAL ENGINEER

Olsson - Civil Engineering
Missouri Certificate of Authority #
1301 Burlington Street
North Kansas City, MO 64116
TEL 816.361.1177 www.olsson.com

olson



SPOT ELEVATION LEGEND:

ALL SPOT ELEVATIONS ARE TO EDGE OF PAVEMENT, LIP OF CURB, AND/OR FINISHED GRADE UNLESS OTHERWISE SPECIFIED AS BELOW. SPOT ELEVATIONS AT FACE OF STRUCTURES INDICATES FEATURES ADJACENT TO STRUCTURE, NOT THE STRUCTURE ITSELF.

FFE FINISHED FLOOR ELEVATION
HP HIGH POINT
LP LOW POINT
TC TOP OF CURB AT BACK
TS TOP OF STRUCTURE
ME MATCH EXISTING
PV PAVEMENT

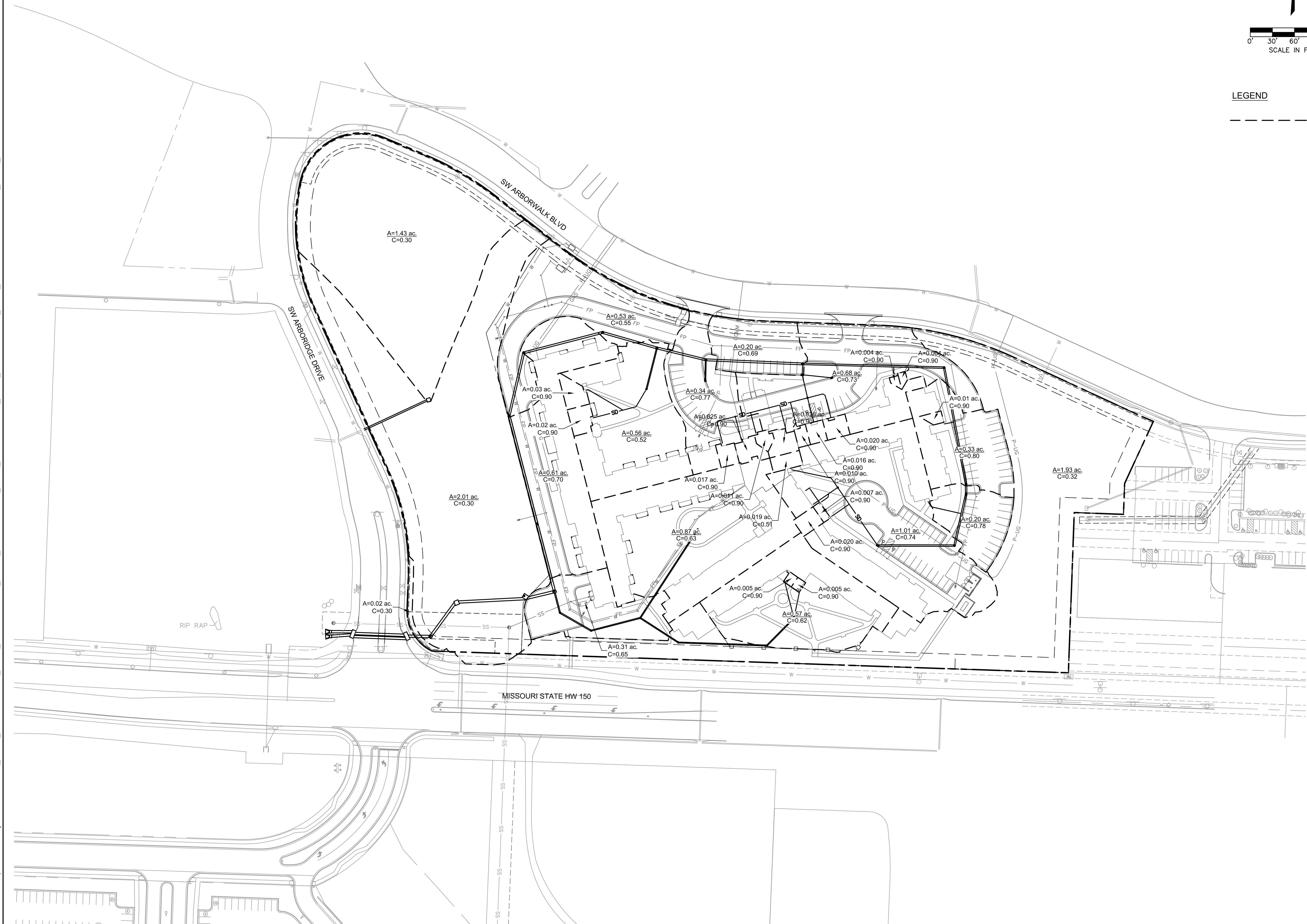
SIDEWALK RAMP LEGEND:

| | |
|---|------------|
| T | TRANSITION |
| L | LANDING |
| R | RAMP |

[illegible]

| | | |
|-----------------|--|------|
| GRADING DETAILS | drawn by: _____ CSM checked by: _____ CSM approved by: _____ JS QA/QC by: _____ JS project no.: _____ A21-04054 drawing no.: C_GRD02 A2104054 date: _____ 08.10.2022 | 2023 |
| | RAIN TREE VILLAGE FINAL DEVELOPMENT PLAN | |

SHEET
C4.6



LEGEND

— — — — — DRAINAGE
BASIN

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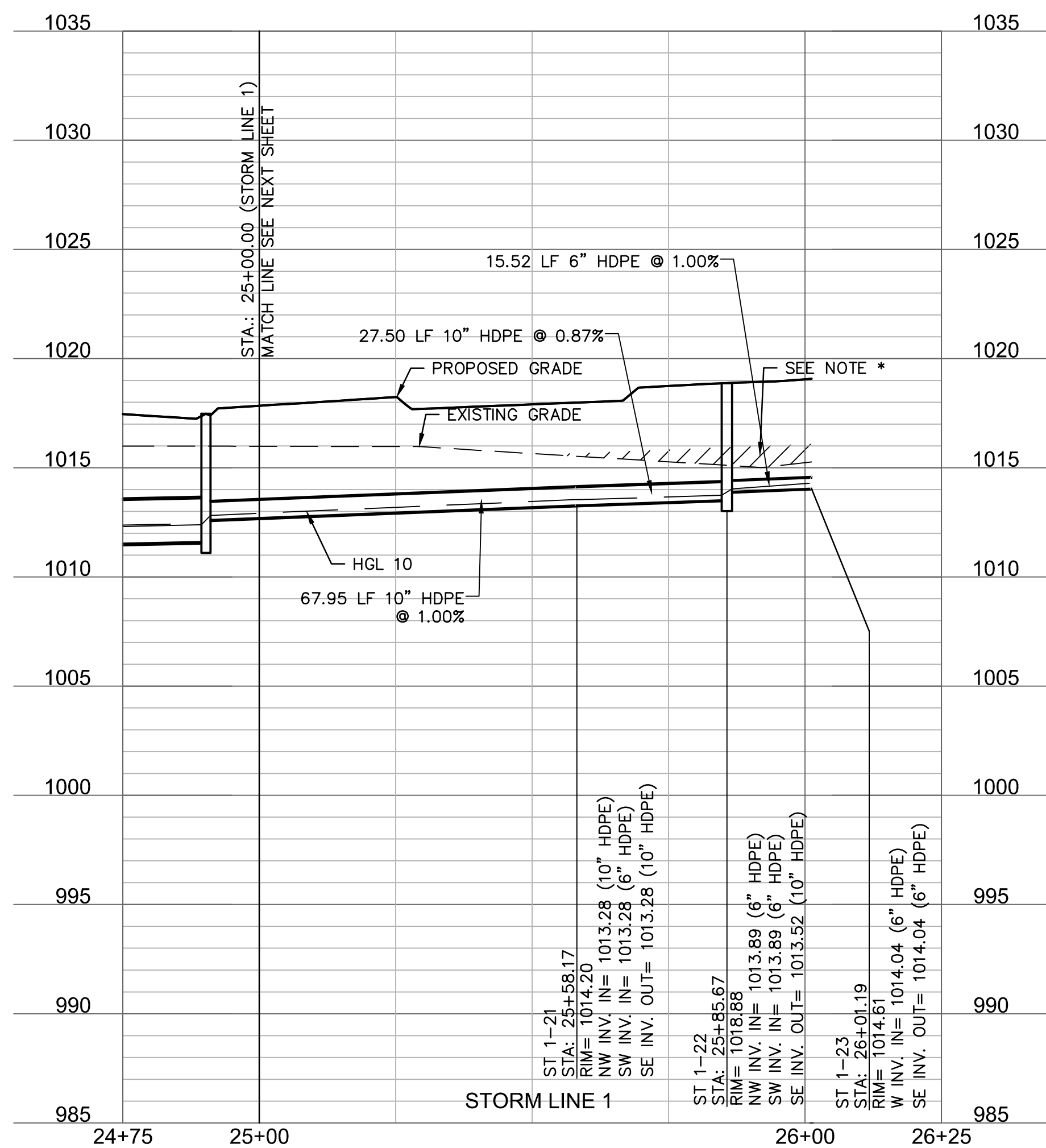
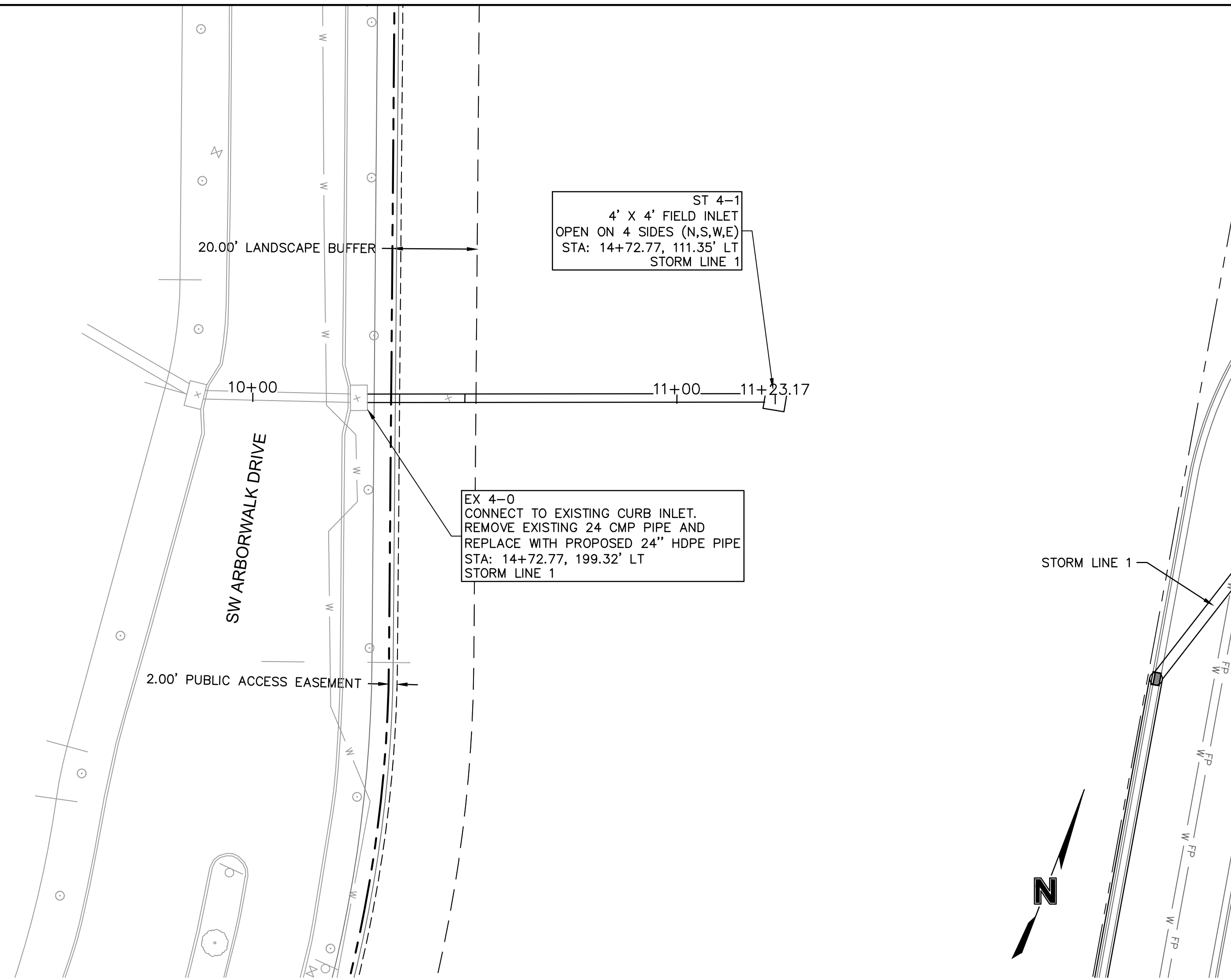
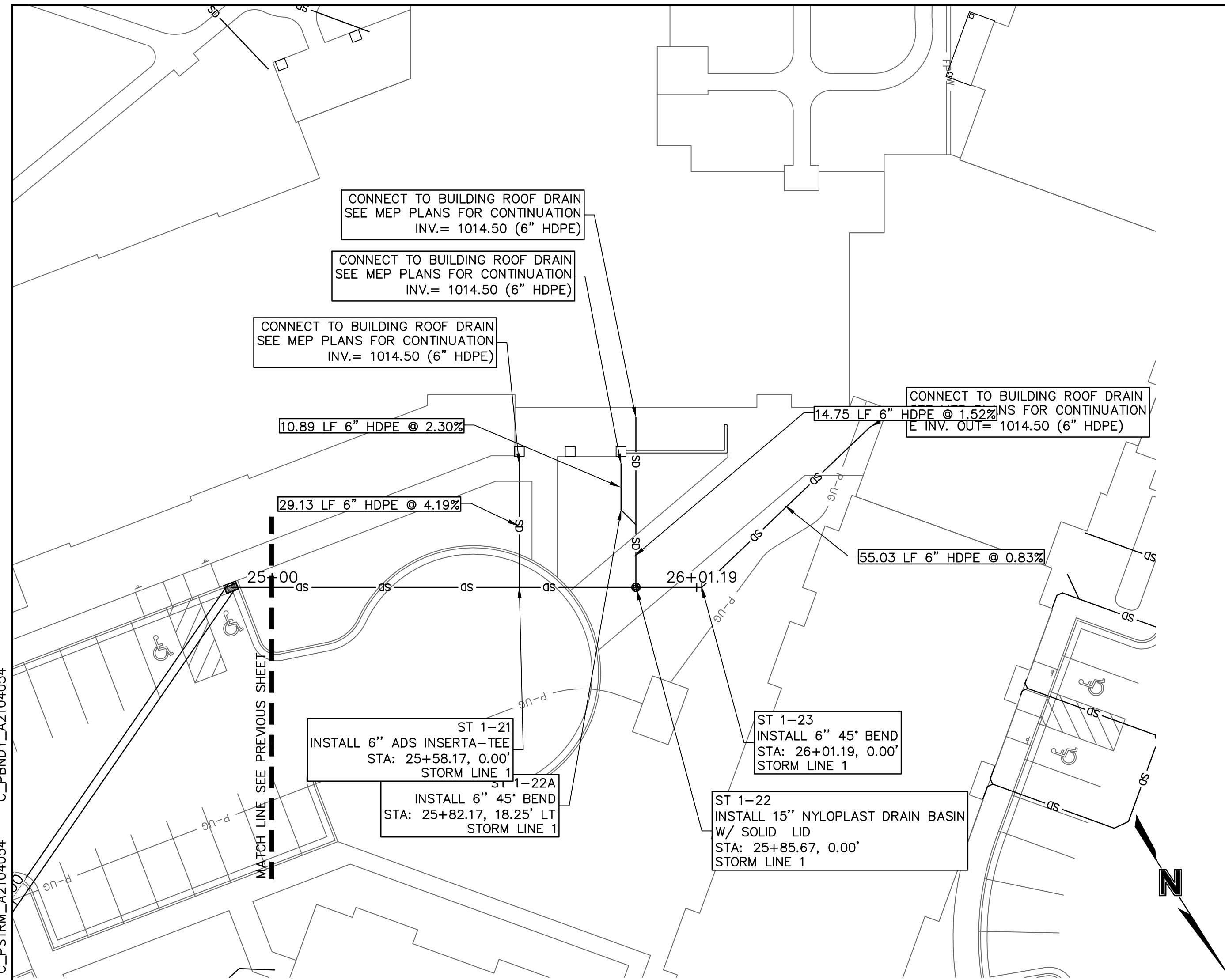
Olsson - Civil Engineering
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[illegible]

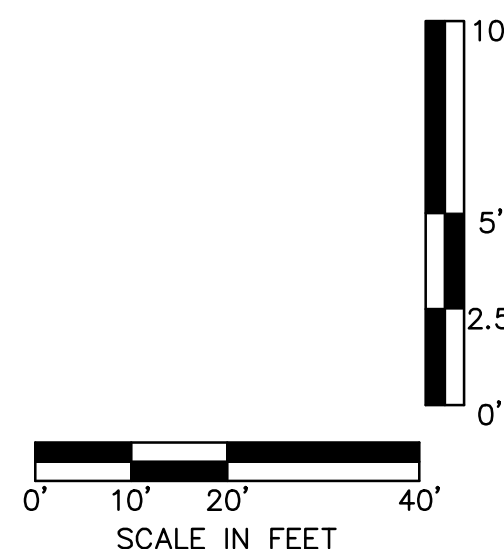
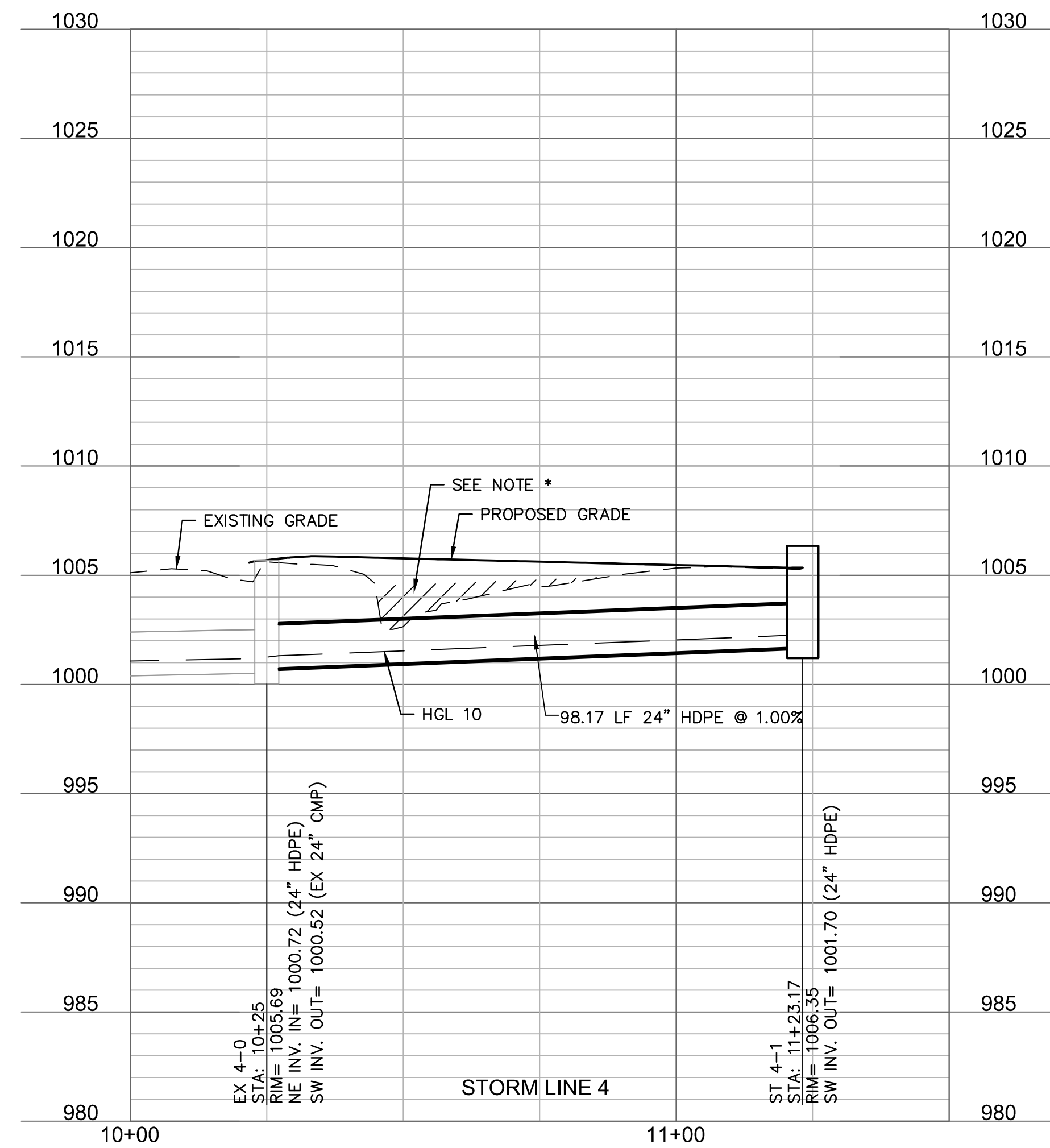
| | |
|--|------|
| STORMWATER MANAGEMENT PLAN | |
| RAINTREE VILLAGE FINAL DEVELOPMENT PLAN | |
| LEE'S SUMMIT, MO | 2023 |

drawn by: _____ CSM
checked by: _____ CSM
approved by: _____ JS
QA/QC by: _____ JS
project no.: _____ A21-04054
drawing no.: C STM01 A2104054
date: _____ 08.10.2022

SHEET
C6.0



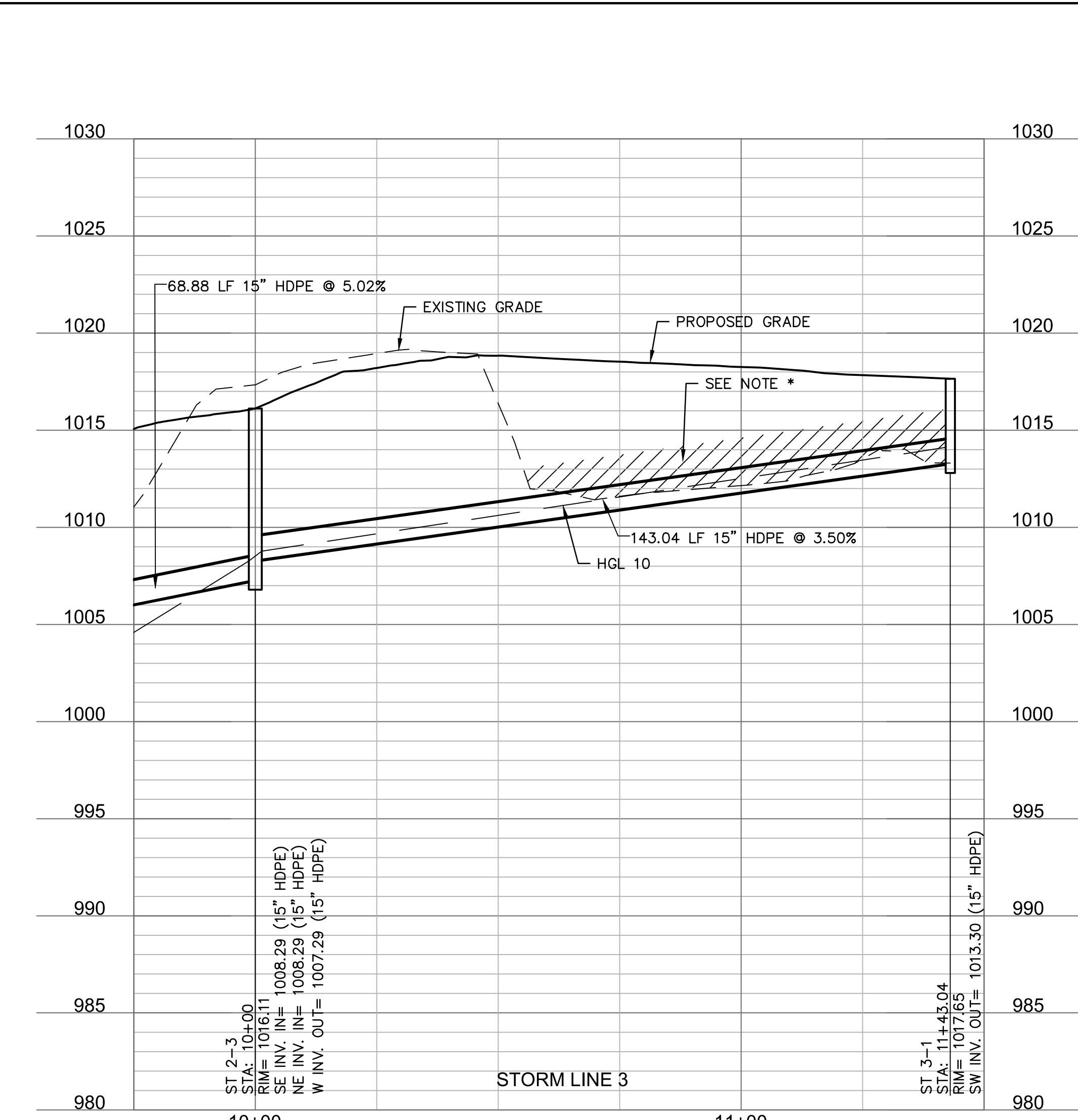
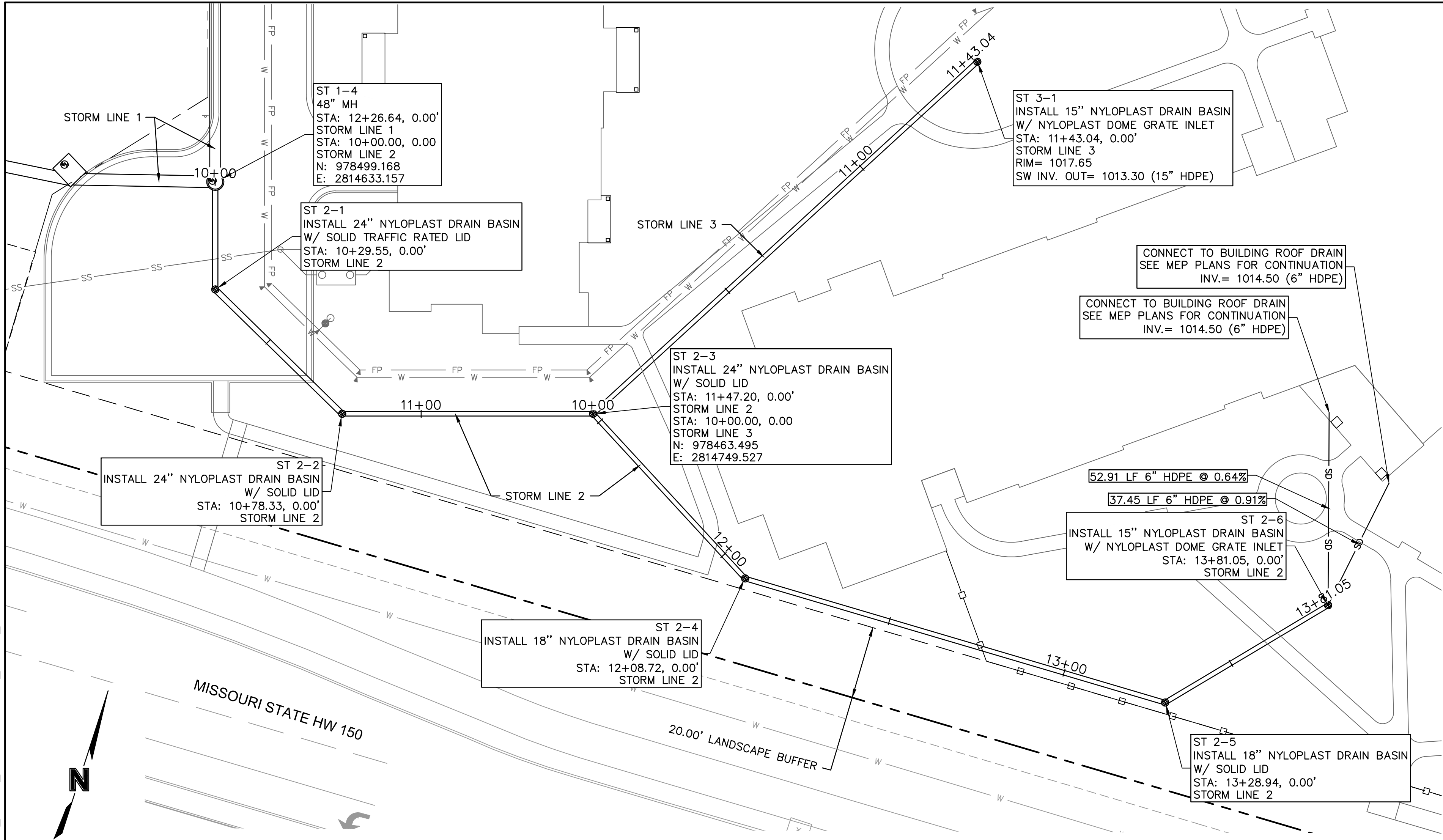
*NOTE: CONTRACTOR SHALL FILL AND COMPACT TO 95% STANDARD DENSITY TO A POINT 18" MINIMUM ABOVE THE TOP OF PIPE PRIOR TO EXCAVATION FOR THE PIPE.



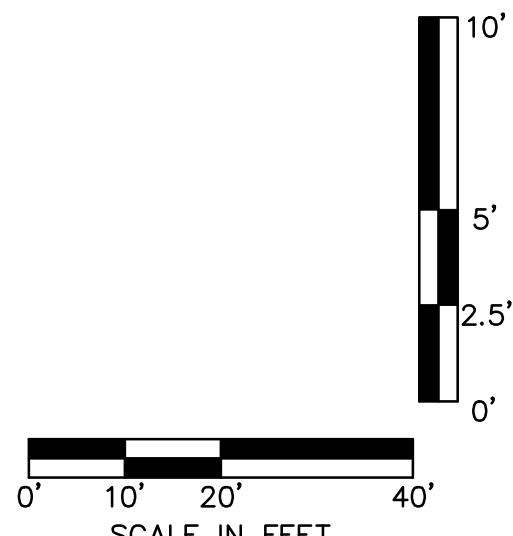
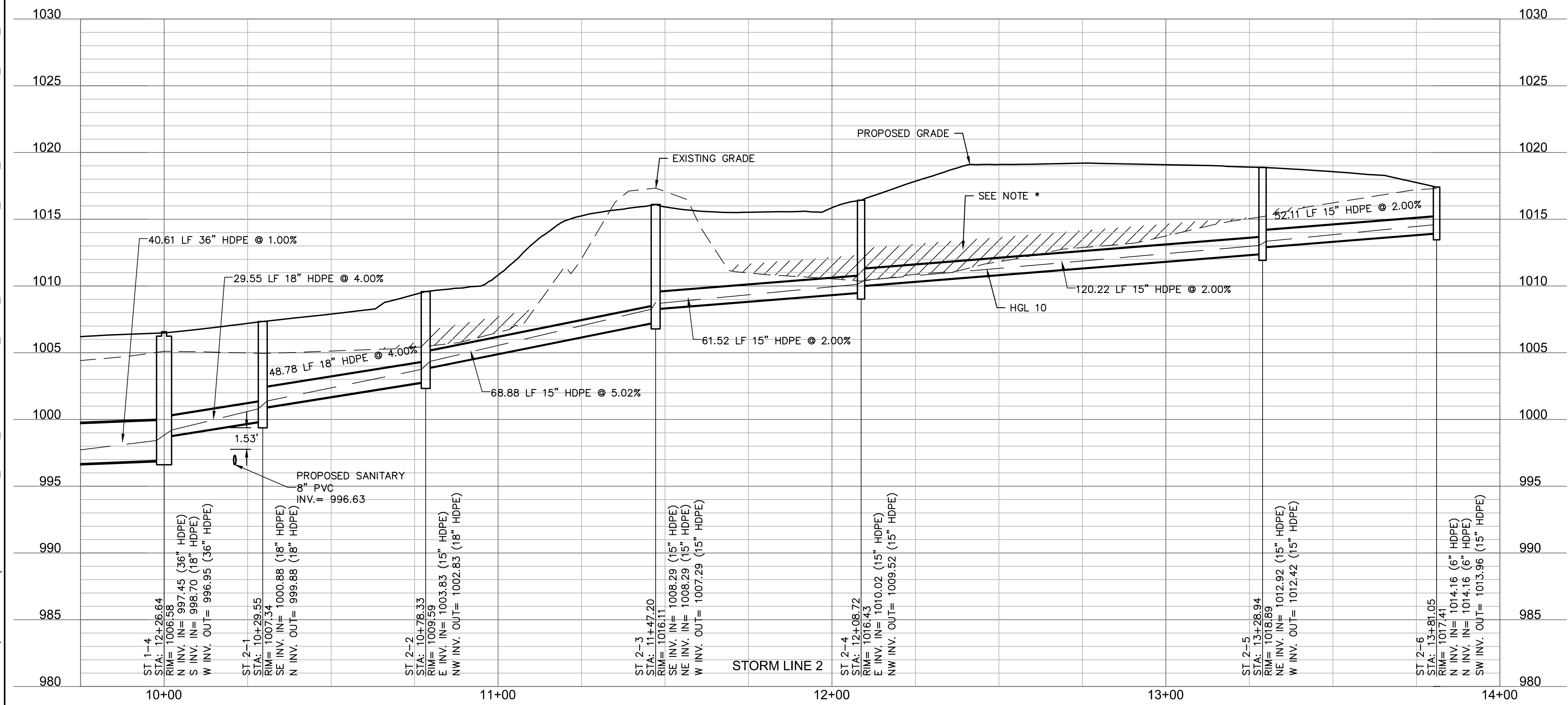
| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|----------|------------|-----------------------|-----|
| 1 | 10.10.2022 | CITY COMMENTS | CSM |
| 2 | 01.20.2023 | CITY COMMENTS | |
| 3 | 03.03.2023 | CITY COMMENTS | |
| | | | |
| | | | |
| | | | |

REVISIONS





*NOTE: CONTRACTOR SHALL FILL AND COMPACT TO 95% STANDARD DENSITY TO A POINT 18" MINIMUM ABOVE THE TOP OF PIPE PRIOR TO EXCAVATION FOR THE PIPE.



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STATE OF MISSOURI
JULIE ELAINE
SELLERS
Professional Engineer
NUMBER
PE-2017000367
3/2/23

REV. NO. DATE REVISIONS DESCRIPTION BY CSM

1 10.10.2022 CITY COMMENTS

2 01.20.2023 CITY COMMENTS

3 03.03.2023 CITY COMMENTS

REVISIONS

STORM PLAN & PROFILE

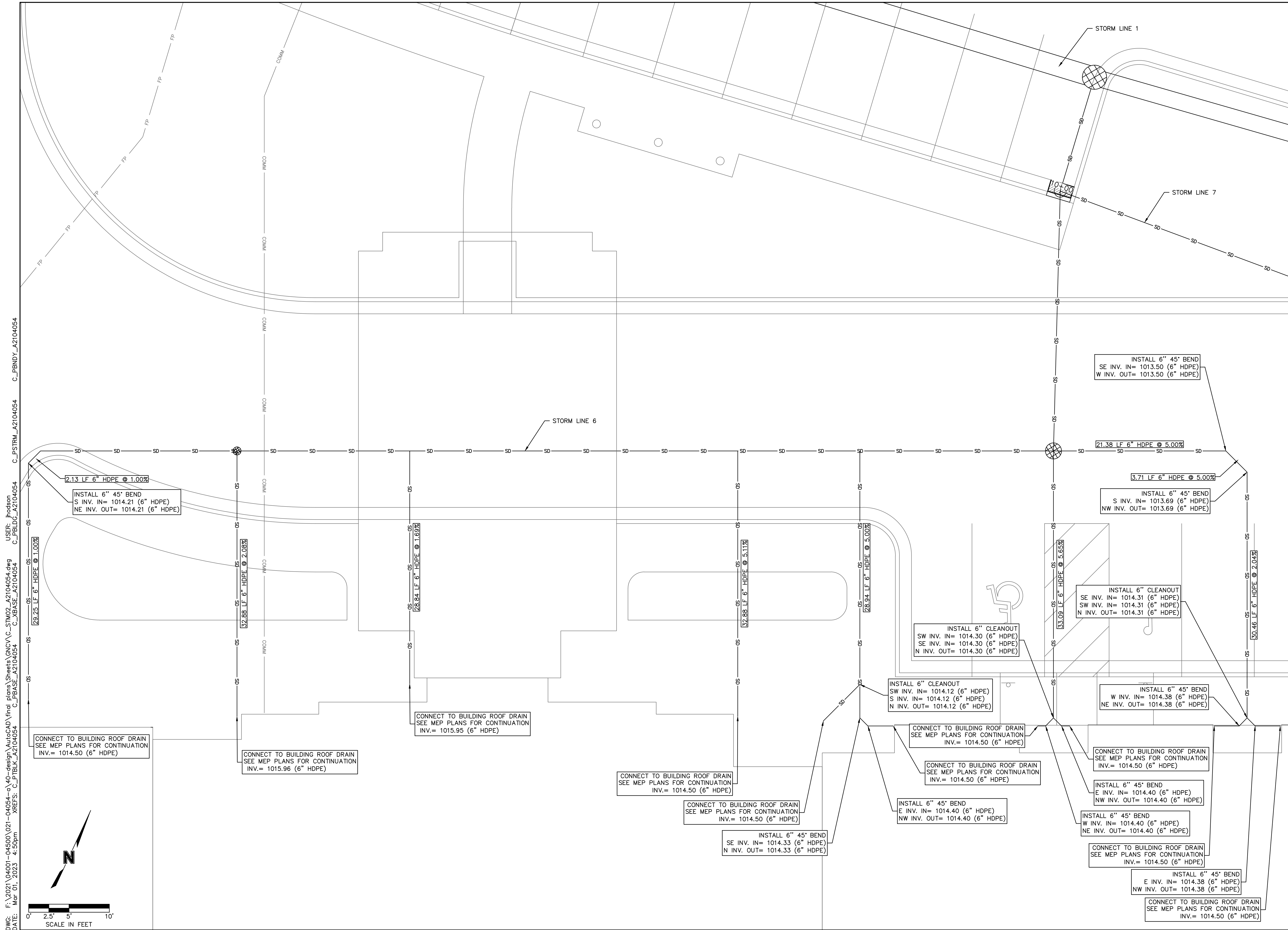
RAINTREE VILLAGE
FINAL DEVELOPMENT PLAN

2023

LEE'S SUMMIT, MO

drawn by: CSM
checked by: CSM
approved by: JS
QA/QC by: JS
project no.: A21-04054
drawing no.: C_STM02_A2104054
date: 08.10.2022

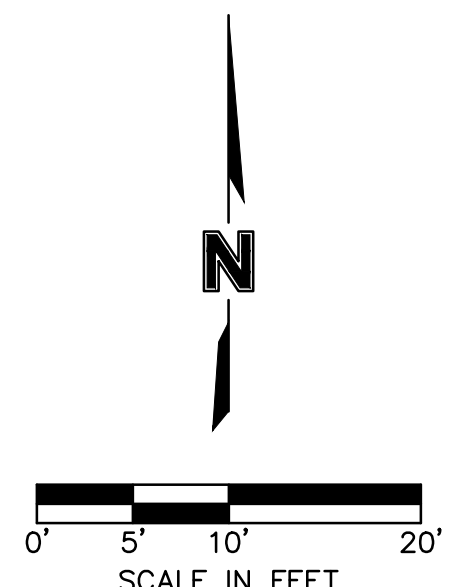
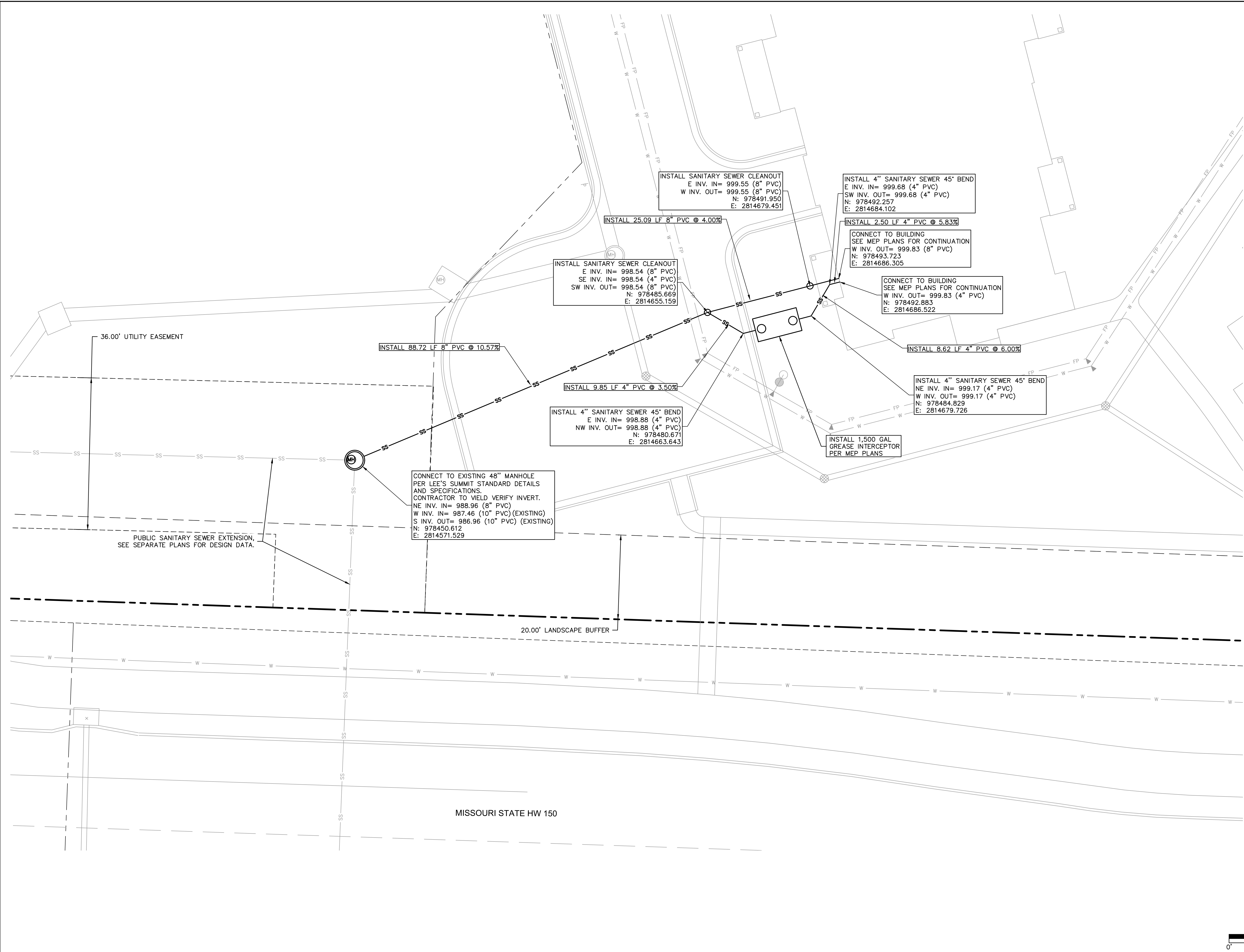
SHEET
C7.4

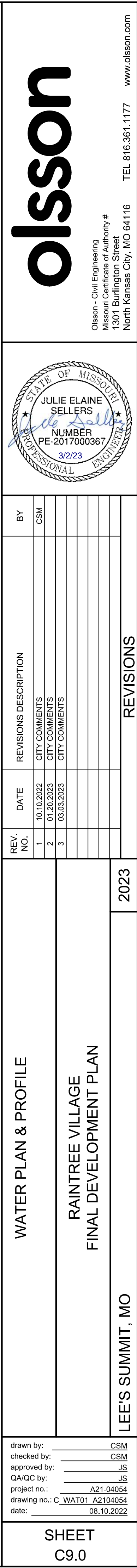


| Storm Sewer Design Calculation Table | | | | | | | | | | | | |
|--------------------------------------|----------------------|-------------|----------------------|------------------------|-----------|---------------|-------------|------------------|-----------------|----------------|-----------------|---------------------------|
| 10 Year Return Frequency | | | | | | | | | | | | |
| Upstream Structure | Downstream Structure | Length (ft) | Upstream Invert (ft) | Downstream Invert (ft) | Slope (%) | Diameter (in) | Manning's n | Total Flow (cfs) | Velocity (ft/s) | Capacity (cfs) | Flow Depth (ft) | Upstream Struct. HGL (ft) |
| ST 1-1 | ST P1-3 | 19.372 | 993.44 | 993.24 | 1.03 | 36 | 0.012 | 24.74 | 7.5 | 73.42 | 1.28 | 995.04 |
| ST 1-2 | ST 1-1 | 66.087 | 994.61 | 993.94 | 1.01 | 36 | 0.012 | 24.91 | 7.89 | 72.75 | 1.21 | 996.22 |
| ST 1-3 | ST 1-2 | 92.547 | 996.08 | 995.11 | 1.05 | 36 | 0.012 | 22.22 | 7.68 | 73.97 | 1.13 | 997.6 |
| ST 1-4 | ST 1-3 | 94.614 | 996.95 | 996.58 | 0.91 | 36 | 0.012 | 21.34 | 7.36 | 68.96 | 1.15 | 998.43 |
| ST 1-5 | ST 1-4 | 94.846 | 998.4 | 997.45 | 1 | 36 | 0.012 | 17.06 | 7.03 | 72.31 | 0.99 | 999.72 |
| ST 1-6 | ST 1-5 | 151.279 | 1000.41 | 998.9 | 1 | 36 | 0.012 | 15.33 | 6.81 | 72.18 | 0.94 | 1001.66 |
| ST 1-7 | ST 1-6 | 88.08 | 1001.9 | 1000.91 | 1.12 | 30 | 0.012 | 14 | 7.01 | 47.1 | 0.93 | 1003.16 |
| ST 1-8 | ST 1-7 | 110.483 | 1003.5 | 1002.4 | 1 | 30 | 0.012 | 14.21 | 6.86 | 44.33 | 0.97 | 1004.77 |
| ST 1-9 | ST 1-8 | 76.719 | 1004.38 | 1004 | 0.5 | 30 | 0.012 | 14.36 | 5.97 | 31.27 | 1.19 | 1005.66 |
| ST 1-10 | ST 1-9 | 68.177 | 1005.22 | 1004.88 | 0.5 | 30 | 0.012 | 12.7 | 5.76 | 31.37 | 1.11 | 1006.42 |
| ST 1-11 | ST 1-10 | 131.568 | 1006.38 | 1005.72 | 0.5 | 30 | 0.012 | 11.55 | 5.61 | 31.47 | 1.05 | 1007.52 |
| ST 1-12 | ST 1-11 | 123.87 | 1007.5 | 1006.88 | 0.5 | 24 | 0.012 | 7.22 | 5.07 | 17.33 | 0.9 | 1008.45 |
| ST 1-13 | ST 1-12 | 20.174 | 1007.6 | 1007.5 | 0.5 | 24 | 0.012 | 7.14 | 4.85 | 17.25 | 0.95 | 1008.55 |
| ST 1-14 | ST 1-13 | 48.072 | 1007.84 | 1007.6 | 0.5 | 24 | 0.012 | 7.1 | 4.85 | 17.31 | 0.95 | 1008.79 |
| ST 1-15 | ST 1-14 | 75.093 | 1008.72 | 1008.34 | 0.51 | 24 | 0.012 | 7.21 | 5.08 | 17.43 | 0.9 | 1009.67 |
| ST 1-16 | ST 1-15 | 86.161 | 1009.15 | 1008.72 | 0.5 | 24 | 0.012 | 7.28 | 4.92 | 17.31 | 0.95 | 1010.11 |
| ST 1-17 | ST 1-16 | 13.107 | 1009.72 | 1009.65 | 0.53 | 24 | 0.012 | 5.74 | 4.81 | 17.9 | 0.78 | 1010.57 |
| ST 1-18 | ST 1-17 | 27.321 | 1010.36 | 1010.22 | 0.51 | 24 | 0.012 | 4.85 | 4.54 | 17.54 | 0.72 | 1011.14 |
| ST 1-19 | ST 1-18 | 44.334 | 1010.58 | 1010.36 | 0.5 | 24 | 0.012 | 4.86 | 4.32 | 17.26 | 0.77 | 1011.36 |
| ST 1-20 | ST 1-19 | 104.293 | 1011.6 | 1011.08 | 0.5 | 24 | 0.012 | 5.02 | 4.56 | 17.3 | 0.74 | 1012.39 |
| ST 1-21 | ST 1-20 | 67.95 | 1013.28 | 1012.6 | 1 | 10 | 0.012 | 0.36 | 2.8 | 2.37 | 0.22 | 1013.54 |
| ST 1-22 | ST 1-21 | 27.501 | 1013.52 | 1013.28 | 0.87 | 10 | 0.012 | 0.25 | 1.96 | 2.22 | 0.26 | 1013.74 |
| ST 1-23 | ST 1-22 | 15.517 | 1014.04 | 1013.89 | 0.97 | 6 | 0.012 | 0.13 | 2.22 | 0.6 | 0.16 | 1014.22 |
| ST 2-1 | ST 1-4 | 29.549 | 999.88 | 998.7 | 3.99 | 18 | 0.012 | 5.65 | 7.83 | 22.73 | 0.51 | 1000.8 |
| ST 2-2 | ST 2-1 | 48.776 | 1002.83 | 1000.88 | 4 | 18 | 0.012 | 5.69 | 7.85 | 22.75 | 0.51 | 1003.75 |
| ST 2-3 | ST 2-2 | 68.879 | 1007.29 | 1003.83 | 5.02 | 15 | 0.012 | 5.73 | 8.7 | 15.68 | 0.52 | 1008.26 |
| ST 2-4 | ST 2-3 | 61.517 | 1009.52 | 1008.29 | 2 | 15 | 0.012 | 2.35 | 5.27 | 9.89 | 0.42 | 1010.13 |
| ST 2-5 | ST 2-4 | 120.22 | 1012.42 | 1010.02 | 2 | 15 | 0.012 | 2.43 | 5.32 | 9.88 | 0.42 | 1013.04 |
| ST 2-6 | ST 2-5 | 52.11 | 1013.96 | 1012.92 | 2 | 15 | 0.012 | 2.47 | 5.34 | 9.88 | 0.43 | 1014.59 |
| ST 3-1 | ST 2-3 | 143.036 | 1013.3 | 1008.29 | 3.5 | 15 | 0.012 | 4.03 | 7.08 | 13.09 | 0.48 | 1014.11 |
| ST 4-1 | EX 4-0 | 98 | 1001.7 | 1000.72 | 1 | 24 | 0.012 | 3.15 | 4.58 | 24.5 | 0.48 | 1002.32 |
| ST 5-1 | ST 1-10 | 28.026 | 1013.95 | 1013.11 | 3 | 15 | 0.012 | 1.92 | 5.45 | 12.11 | 0.34 | 1014.5 |
| ST 6-1 | ST 1-11 | 14.736 | 1011.11 | 1010.96 | 1.02 | 18 | 0.012 | 4.99 | 5.52 | 11.48 | 0.69 | 1011.97 |
| ST 6-2 | ST 6-1 | 32.221 | 1011.93 | 1011.61 | 0.99 | 12 | 0.012 | 1.12 | 3.77 | 3.84 | 0.37 | 1012.37 |
| ST 6-3 | ST 6-2 | 24 | 1012.67 | 1012.43 | 1 | 12 | 0.012 | 0.68 | 3.27 | 3.86 | 0.28 | 1013.01 |
| ST 6-4 | ST 6-3 | 15.147 | 1012.82 | 1012.67 | 0.99 | 12 | 0.012 | 0.46 | 2.23 | 3.84 | 0.34 | 1013.1 |
| ST 6-5 | ST 6-4 | 40.665 | 1013.23 | 1012.82 | 1.01 | 12 | 0.012 | 0.36 | 2.19 | 3.87 | 0.28 | 1013.48 |
| ST 6-6 | ST 6-5 | 21.415 | 1013.44 | 1013.23 | 0.98 | 12 | 0.012 | 0.25 | 1.9 | 3.82 | 0.25 | 1013.65 |
| ST 6-7 | ST 6-6 | 24.351 | 1014.19 | 1013.94 | 1.03 | 6 | 0.012 | 0.13 | 2.26 | 0.62 | 0.15 | 1014.37 |
| ST 7-1 | ST 6-1 | 40.175 | 1012.01 | 1011.61 | 1 | 15 | 0.012 | 3.65 | 5.17 | 6.98 | 0.64 | 1012.78 |
| ST 8-1 | ST 1-9 | 57.435 | 1012.71 | 1011.56 | 2 | 15 | 0.012 | 2.33 | 5.25 | 9.9 | 0.41 | 1013.32 |
| ST 8-2 | ST 8-1 | 27.994 | 1013.74 | 1013.46 | 1 | 6 | 0.012 | 0.31 | 2.93 | 0.61 | 0.26 | 1014.02 |
| ST 8-3 | ST 8-2 | 18.263 | 1013.92 | 1013.74 | 0.99 | 6 | 0.012 | 0.32 | 2.75 | 0.6 | 0.28 | 1014.21 |
| ST 8-4 | ST 8-3 | 41.897 | 1014.5 | 1013.92 | 1.38 | 6 | 0.012 | 0.13 | 1.61 | 0.71 | 0.28 | 1014.68 |

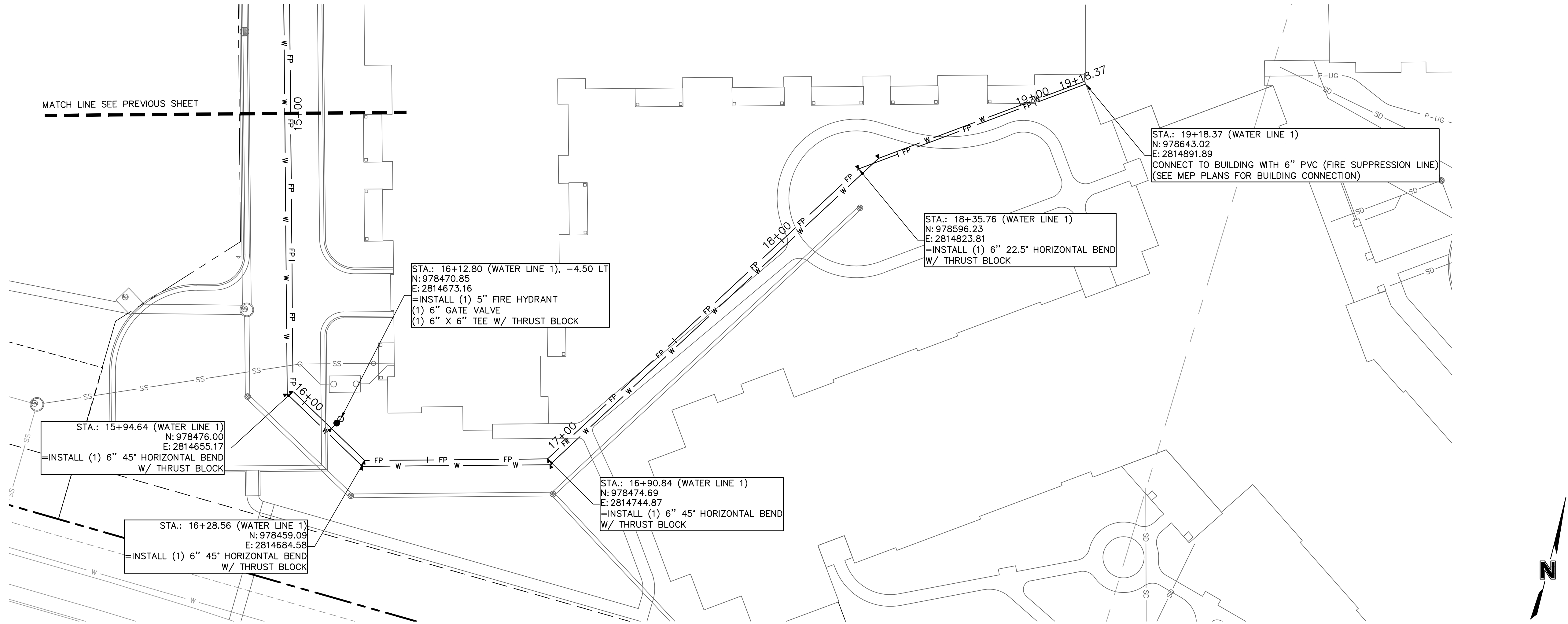
| Storm Sewer Design Calculation Table | | | | | | | | | | | | |
|--------------------------------------|----------------------|-------------|----------------------|------------------------|-----------|---------------|-------------|------------------|-----------------|----------------|-----------------|---------------------------|
| 100 Year Return Frequency | | | | | | | | | | | | |
| Upstream Structure | Downstream Structure | Length (ft) | Upstream Invert (ft) | Downstream Invert (ft) | Slope (%) | Diameter (in) | Manning's n | Total Flow (cfs) | Velocity (ft/s) | Capacity (cfs) | Flow Depth (ft) | Upstream Struct. HGL (ft) |
| ST 1-1 | ST P1-3 | 19.372 | 993.44 | 993.24 | 1.03 | 36 | 0.012 | 51.85 | 10.01 | 73.42 | 1.86 | 995.78 |
| ST 1-2 | ST 1-1 | 66.087 | 994.61 | 993.94 | 1.01 | 36 | 0.012 | 52.07 | 9.99 | 72.75 | 1.88 | 996.95 |
| ST 1-3 | ST 1-2 | 92.547 | 996.08 | 995.11 | 1.05 | 36 | 0.012 | 46.27 | 9.21 | 73.97 | 1.84 | 998.29 |
| ST 1-4 | ST 1-3 | 40.614 | 996.95 | 996.58 | 0.91 | 36 | 0.012 | 44.35 | 9.23 | 68.96 | 1.75 | 999.12 |
| ST 1-5 | ST 1-4 | 94.846 | 998.4 | 997.45 | 1 | 36 | 0.012 | 35.24 | 8.04 | 72.31 | 1.67 | 1000.33 |
| ST 1-6 | ST 1-5 | 151.279 | 1000.41 | 998.9 | 1 | 36 | 0.012 | 31.34 | 8.23 | 72.18 | 1.43 | 1002.22 |
| ST 1-7 | ST 1-6 | 88.08 | 1001.9 | 1000.91 | 1.12 | 30 | 0.012 | 28.49 | 8.75 | 47.1 | 1.4 | 1003.72 |
| ST 1-8 | ST 1-7 | 110.483 | 1003.5 | 1002.4 | 1 | 30 | 0.012 | 28.76 | 8.54 | 44.33 | 1.47 | 1005.33 |
| ST 1-9 | ST 1-8 | 76.719 | 1004.38 | 1004 | 0.5 | 30 | 0.012 | 28.94 | 7.23 | 31.27 | 1.9 | 1006.28 |
| ST 1-10 | ST 1-9 | 68.177 | 1005.22 | 1004.88 | 0.5 | 30 | 0.012 | 25.49 | 7.07 | 31.37 | 1.72 | 1006.94 |
| ST 1-11 | ST 1-10 | 131.568 | 1006.38 | 1005.72 | 0.5 | 30 | 0.012 | 22.97 | 6.89 | 31.47 | 1.59 | 1008.01 |
| ST 1-12 | ST 1-11 | 123.87 | 1007.5 | 1006.88 | 0.5 | 24 | 0.012 | 14.21 | 6.16 | 17.33 | 1.38 | 1008.88 |
| ST 1-13 | ST 1-12 | 20.174 | 1007.6 | 1007.5 | 0.5 | 24 | 0.012 | 14.04 | 5.27 | 17.25 | 1.61 | 1009.15 |
| ST 1-14 | ST 1-13 | 48.072 | 1007.84 | 1007.6 | 0.5 | 24 | 0.012 | 13.92 | 5.01 | 17.31 | 1.73 | 1009.43 |
| ST 1-15 | ST 1-14 | 75.093 | 1008.72 | 1008.34 | 0.51 | 24 | 0.012 | 14.04 | 6.18 | 17.43 | 1.36 | 1010.08 |
| ST 1-16 | ST 1-15 | 86.161 | 1009.15 | 1008.72 | 0.5 | 24 | 0.012 | 14.07 | 5.68 | 17.31 | 1.6 | 1010.52 |
| ST 1-17 | ST 1-16 | 13.107 | 1009.72 | 1009.65 | 0.53 | 24 | 0.012 | 11.08 | 5.83 | 17.9 | 1.14 | 1010.91 |
| ST 1-18 | ST 1-17 | 27.321 | 1010.36 | 1010.22 | 0.51 | 24 | 0.012 | 9.33 | 5.5 | 17.54 | 1.04 | 1011.45 |
| ST 1-19 | ST 1-18 | 44.334 | 1010.58 | 1010.36 | 0.5 | 24 | 0.012 | 9.3 | 5.32 | 17.26 | 1.09 | 1011.67 |
| ST 1-20 | ST 1-19 | 104.293 | 1011.6 | 1011.08 | 0.5 | 24 | 0.012 | 9.47 | 5.49 | 17.3 | 1.06 | 1012.7 |
| ST 1-21 | ST 1-20 | 67.95 | 1013.28 | 1012.6 | 1 | 10 | 0.012 | 0.66 | 3.34 | 2.37 | 0.3 | 1013.64 |
| ST 1-22 | ST 1-21 | 27.501 | 1013.52 | 1013.28 | 0.87 | 10 | 0.012 | 0.45 | 2.32 | 2.22 | 0.36 | 1013.81 |
| ST 1-23 | ST 1-22 | 15.517 | 1014.04 | 1013.89 | 0.97 | 6 | 0.012 | 0.23 | 2.64 | 0.6 | 0.21 | 1014.28 |
| ST 2-1 | ST 1-4 | 29.549 | 999.88 | 998.7 | 3.99 | 18 | 0.012 | 10.75 | 9.74 | 22.73 | 0.73 | 1001.14 |
| ST 2-2 | ST 2-1 | 48.776 | 1002.83 | 1000.88 | 4 | 18 | 0.012 | 10.8 | 9.76 | 22.75 | 0.73 | 1004.09 |
| ST 2-3 | ST 2-2 | 68.879 | 1007.29 | 1003.83 | 5.02 | 15 | 0.012 | 10.84 | 11.37 | 15.68 | 0.76 | 1008.49 |
| ST 2-4 | ST 2-3 | 61.517 | 1009.52 | 1008.29 | 2 | 15 | 0.012 | 4.42 | 6.4 | 9.89 | 0.59 | 1010.37 |
| ST 2-5 | ST 2-4 | 120.22 | 1012.42 | 1010.02 | 2 | 15 | 0.012 | 4.5 | 6.44 | 9.88 | 0.59 | 1013.28 |
| ST 2-6 | ST 2-5 | 52.11 | 1013.96 | 1012.92 | 2 | 15 | 0.012 | 4.54 | 6.45 | 9.88 | 0.59 | 1014.82 |
| ST 3-1 | ST 2-3 | 143.036 | 1013.3 | 1008.29 | 3.5 | 15 | 0.012 | 7.07 | 8.61 | 13.09 | 0.65 | 1014.36 |
| ST 4-1 | EX 4-0 | 98 | 1001.7 | 1000.72 | 1 | 24 | 0.012 | 5.53 | 5.39 | 24.5 | 0.65 | 1002.53 |
| ST 5-1 | ST 1-10 | 28.026 | 1013.95 | 1013.11 | 3 | 15 | 0.012 | 3.38 | 6.46 | 12.11 | 0.45 | 1014.69 |
| ST 6-1 | ST 1-11 | 14.736 | 1011.11 | 1010.96 | 1.02 | 18 | 0.012 | 9.51 | 6.79 | 11.48 | 1.04 | 1012.3 |
| ST 6-2 | ST 6-1 | 32.221 | 1011.93 | 1011.61 | 0.99 | 12 | 0.012 | 2.11 | 3.89 | 3.84 | 0.69 | 1012.55 |
| ST 6-3 | ST 6-2 | 24 | 1012.67 | 1012.43 | 1 | 12 | 0.012 | 1.28 | 3.93 | 3.86 | 0.4 | 1013.15 |
| ST 6-4 | ST 6-3 | 15.147 | 1012.82 | 1012.67 | 0.99 | 12 | 0.012 | 0.86 | 2.69 | 3.84 | 0.48 | 1013.21 |
| ST 6-5 | ST 6-4 | 40.665 | 1013.23 | 1012.82 | 1.01 | 12 | 0.012 | 0.66 | 2.59 | 3.87 | 0.39 | 1013.57 |
| ST 6-6 | ST 6-5 | 21.415 | 1013.44 | 1013.23 | 0.98 | 12 | 0.012 | 0.45 | 2.23 | 3.82 | 0.34 | 1013.72 |
| ST 6-7 | ST 6-6 | 24.351 | 1014.19 | 1013.94 | 1.03 | 6 | 0.012 | 0.23 | 2.68 | 0.62 | 0.21 | 1014.43 |
| ST 7-1 | ST 6-1 | 40.175 | 1012.01 | 1011.61 | 1 | 15 | 0.012 | 6.4 | 6.21 | 6.98 | 0.94 | 1013.03 |
| ST 8-1 | ST 1-9 | 57.435 | 1012.71 | 1011.56 | 2 | 15 | 0.012 | 4.2 | 6.3 | 9.9 | 0.57 | 1013.54 |
| ST 8-2 | ST 8-1 | 27.994 | 1013.74 | 1013.46 | 1 | 6 | 0.012 | 0.57 | 3.51 | 0.61 | 0.38 | 1014.12 |
| ST 8-3 | ST 8-2 | 18.263 | 1013.92 | 1013.74 | 0.99 | 6 | 0.012 | 0.57 | 3.49 | 0.6 | 0.39 | 1014.31 |
| ST 8-4 | ST 8-3 | 41.897 | 1014.5 | 1013.92 | 1.38 | 6 | 0.012 | 0.23 | 1.85 | 0.71 | 0.46 | 1014.74 |

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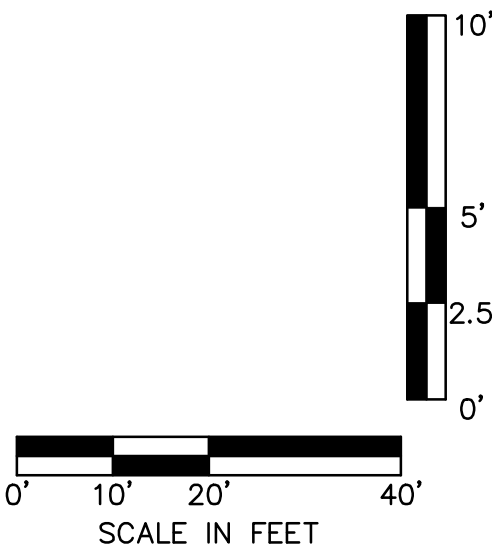
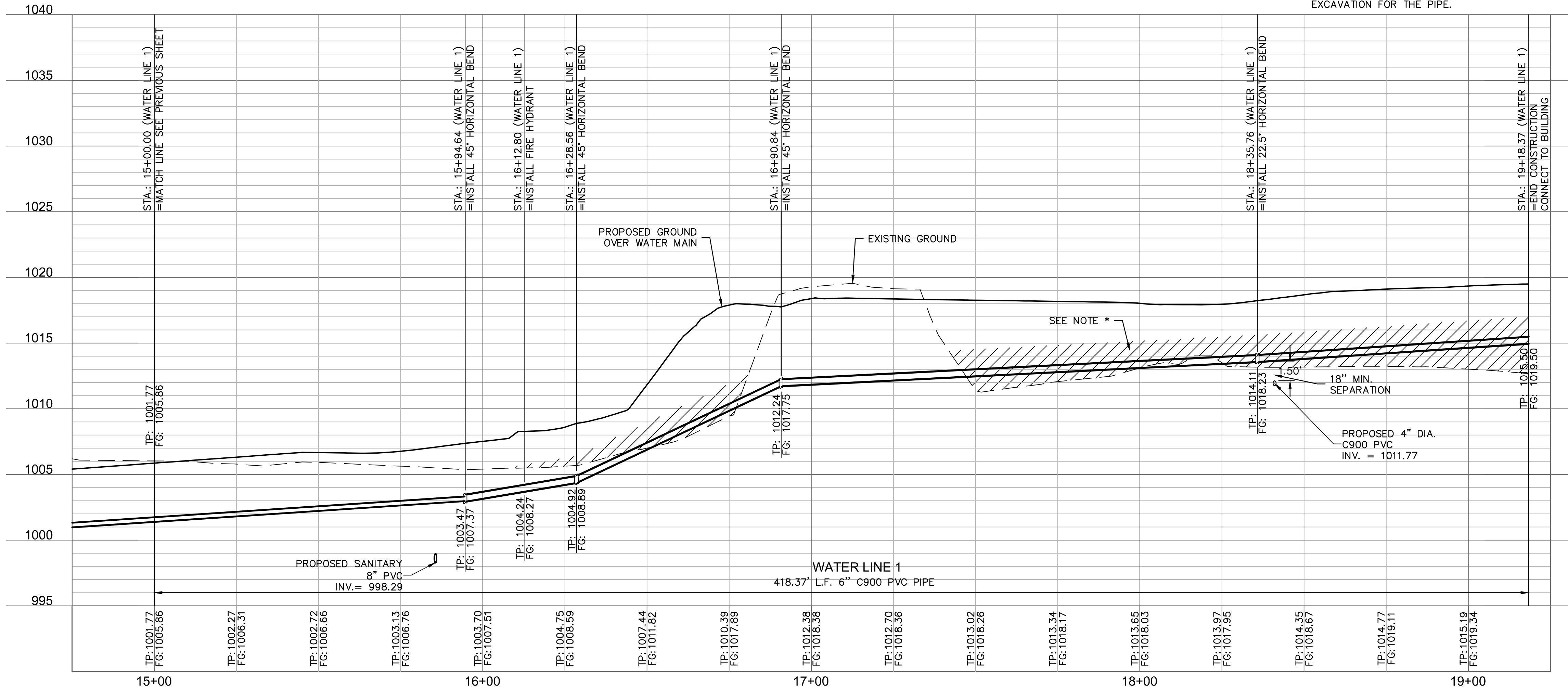
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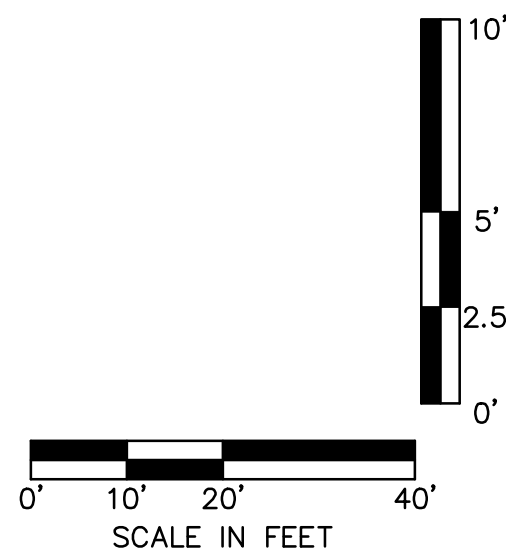
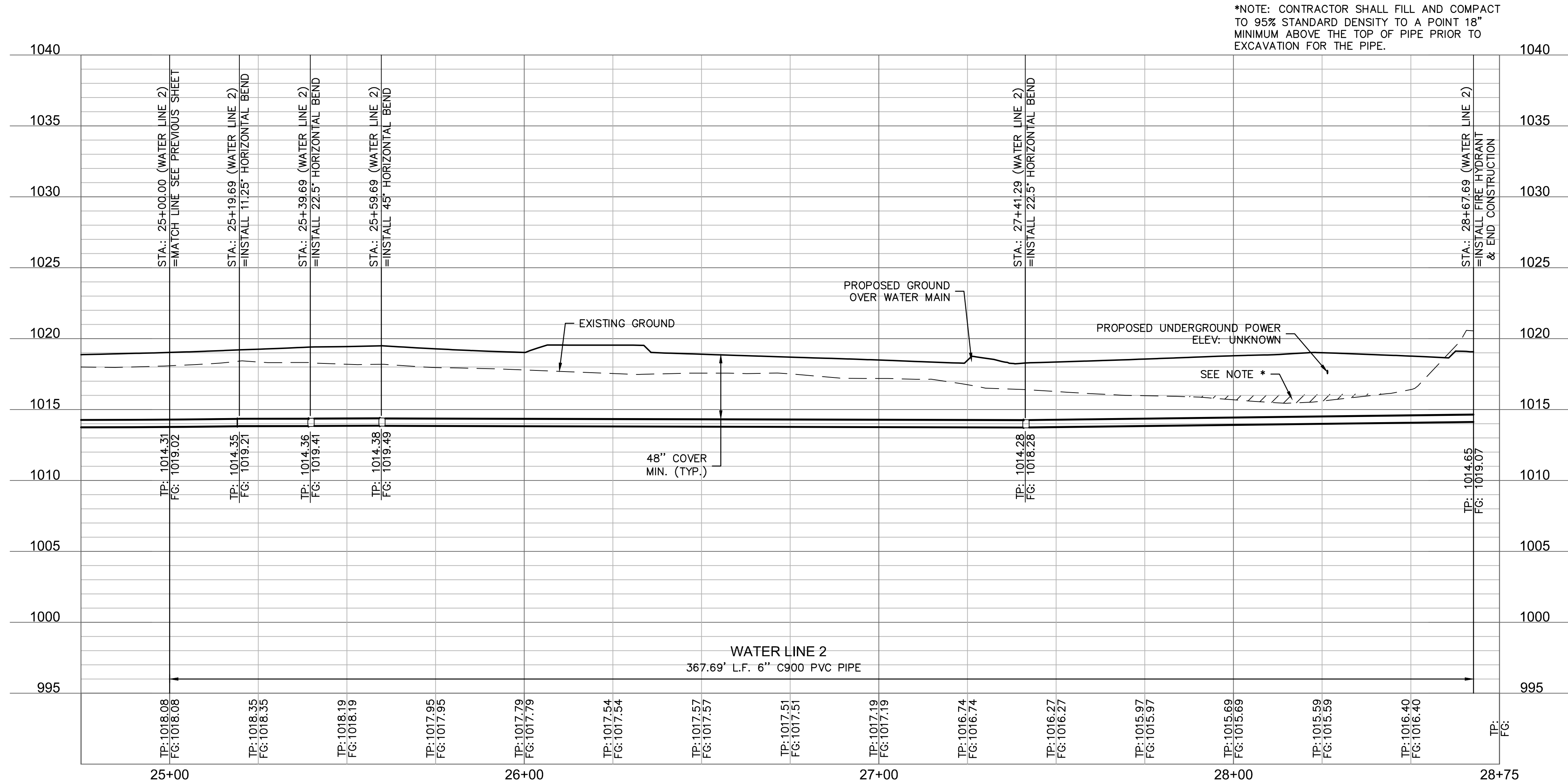
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USER: jbedson



*NOTE: CONTRACTOR SHALL FILL AND COMPACT TO 95% STANDARD DENSITY TO A POINT 18" MINIMUM ABOVE THE TOP OF PIPE PRIOR TO EXCAVATION FOR THE PIPE.



| | | | | | | |
|--|--|---|------------|------|-----------------------|----|
| WATER PLAN & PROFILE | | REV. NO. | | DATE | REVISIONS DESCRIPTION | BY |
| RAINTREE VILLAGE FINAL DEVELOPMENT PLAN | | 1 | 10.10.2022 | CSM | GITY COMMENTS | |
| | | 2 | 01.20.2023 | | GITY COMMENTS | |
| | | 3 | 03.03.2023 | | GITY COMMENTS | |
| | | | | | | |
| LEE'S SUMMIT, MO | | 2023 | | | | |
| SHEET C9.1 | | olsson Julie Elaine Sellers Professional Engineer Missouri Certificate of Authority # 1301 Burlington Street North Kansas City, MO 64116 TEL 816.351.1177 www.olsson.com | | | | |



drawn by: CSM
checked by: CSM
approved by: JS
QA/QC by: JS
project no.: A21-04054
drawing no.: C_WAT01_A2104054
date: 08.10.2022

SHEET
C9.3

LEE'S SUMMIT, MO

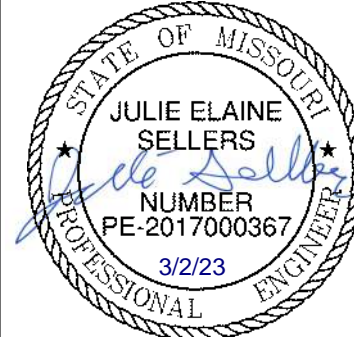
2023

WATER PLAN & PROFILE

RAINTREE VILLAGE
FINAL DEVELOPMENT PLAN

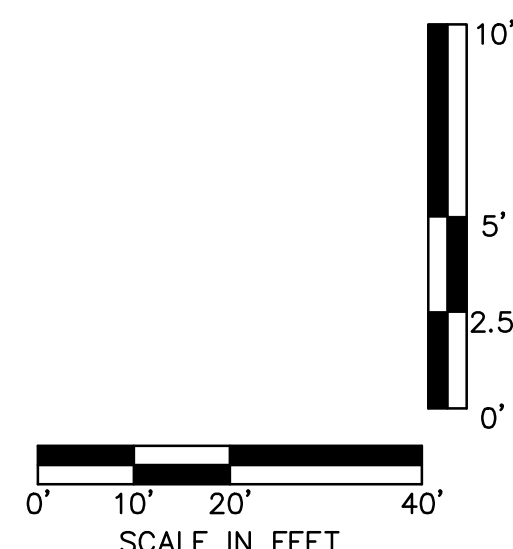
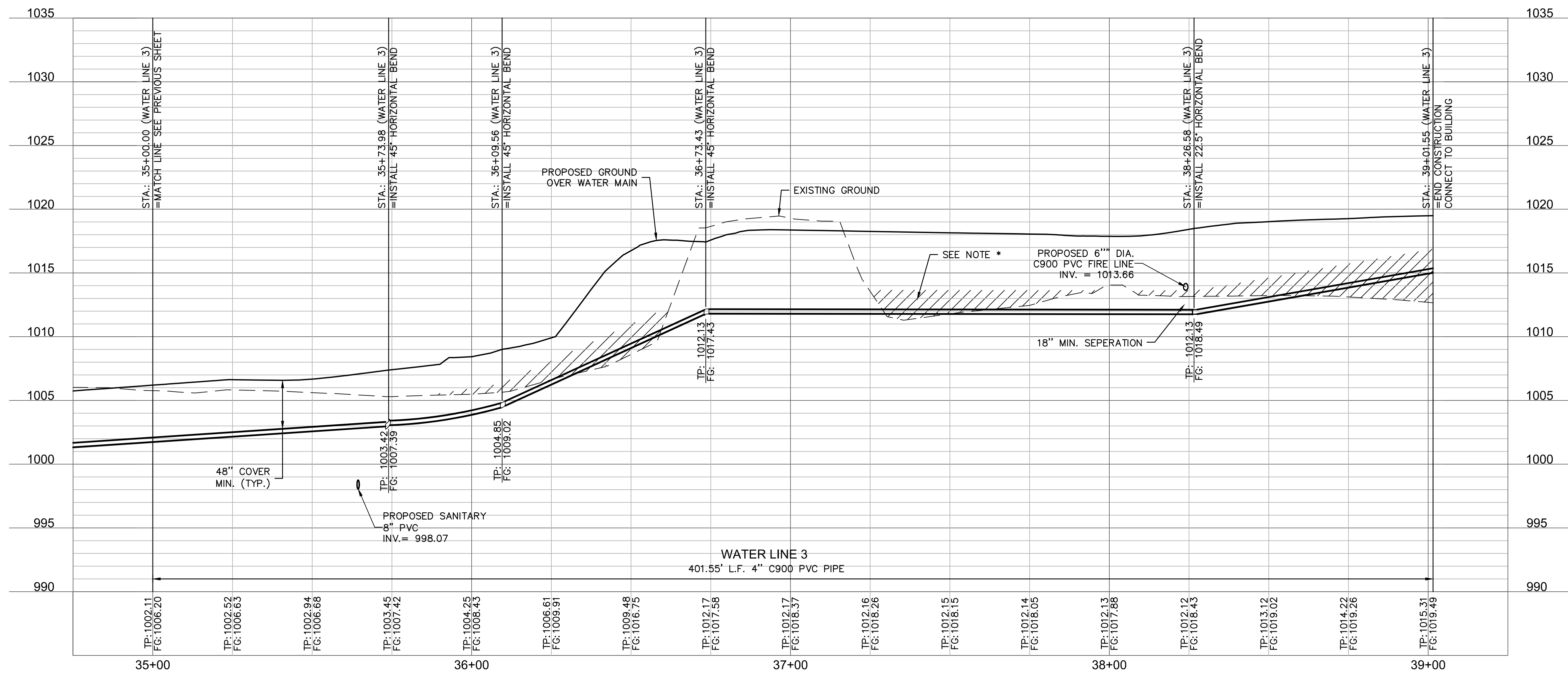
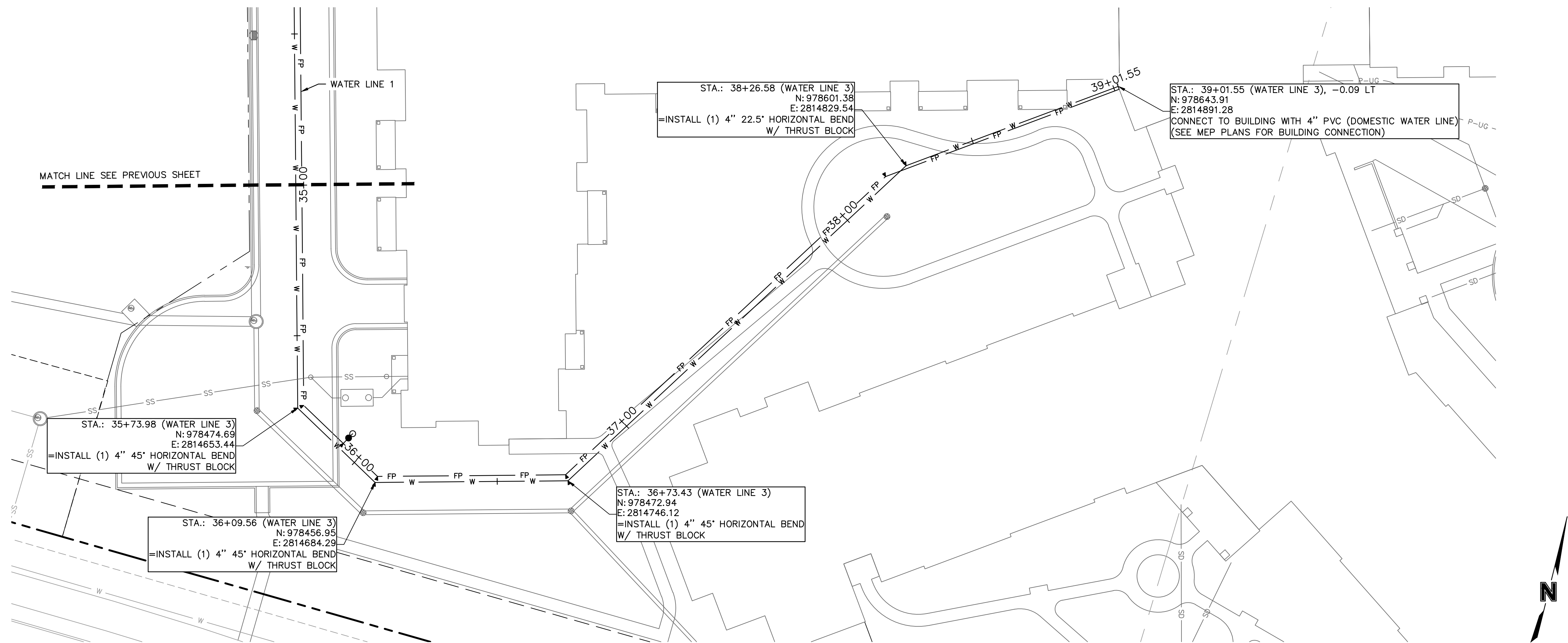
REVISIONS

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|----------|------------|-----------------------|-----|
| 1 | 10.10.2022 | GITY COMMENTS | CSM |
| 2 | 01.20.2023 | GITY COMMENTS | |
| 3 | 03.03.2023 | GITY COMMENTS | |
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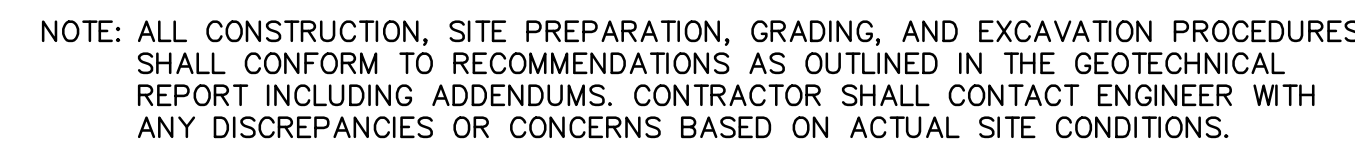


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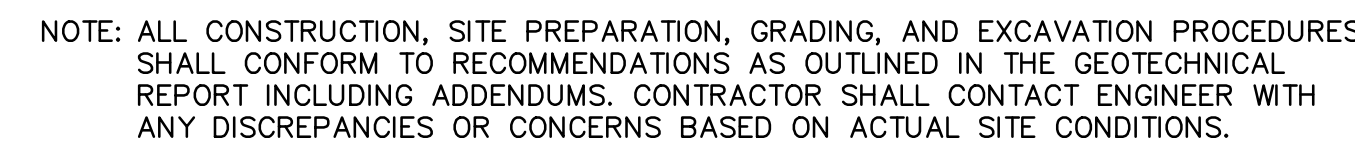
Olsson - Civil Engineering
Missouri Certificate of Authority #
1301 Burlington Street
North Kansas City, MO 64116
TEL 816.361.1177
www.olson.com



| | | |
|---|--|--|
| drawn by: _____ CSM checked by: _____ CSM QA/QC by: _____ JS project no.: A21-04054 drawing no.: C_WAT02_A2104054 date: 08.10.2022 | WATER PLAN & PROFILE | |
| | RAINTREE VILLAGE FINAL DEVELOPMENT PLAN | |
| | | |
| | LEE'S SUMMIT, MO | |
| | 2023 | |
| | | |
| SHEET C9.5 | | |



NOT TO SCALE



NOT TO SCALE



NOT TO SCALE



NOT TO SCALE

1. 5,000 PSI KCMMB CONCRETE SHALL BE USED FOR STRUCTURES WITH ORIFICE PLATE
2. STRUCTURES MAY BE PRE-CAST OR CAST IN PLACE AT THE CONTRACTOR'S OPTION. FOR PRE-CAST CONSTRUCTION CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE DESIGN ENGINEER, AND PROVIDE A COPY OF THE APPROVED SHOP DRAWINGS TO THE CITY.

GENERAL NOTES:

1. 3" ISOLATION JOINTS WITH 3 (2'-#5 BAR) SMOOTH DOWELS SHALL BE PLACED AT RADIUS POINTS AND AT 150' INTERVALS. THESE DOWEL BARS SHALL BE GREASED AND WRAPPED ON ONE END WITH EXPANSION TUBES.
2. 3" DEEP CONTRACTION JOINTS SHALL BE INSTALLED AT APPROXIMATELY 10' INTERVALS. THESE JOINTS SHALL PASS ABOVE THE EXISTING CURB SECTION.
3. CONCRETE FILL SHALL HAVE UNIFORM AND SMOOTH FINISH.
4. KCMMB 4K CONCRETE SHALL BE USED FOR ALL CURBS.
5. ASPHALTIC CONCRETE SURFACE SHALL CONFORM TO STANDARD SPECIFICATIONS SECTION 2205.2.
6. CURBS FOR NEW STREETS SHALL BE BUILT ON ASPHALT OR AGGREGATE BASE AS SHOWN IN TYPICAL SECTION DETAIL.
7. WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.
8. AGGREGATE BASE AND SUBGRADE PREPARATION SHALL EXTEND A MINIMUM ONE FOOT BEYOND THE BACK OF CURB



GUTTER



GUTTER (TYPE CC 1 DRY) GUTTER (TYPE CC 2 DRY)

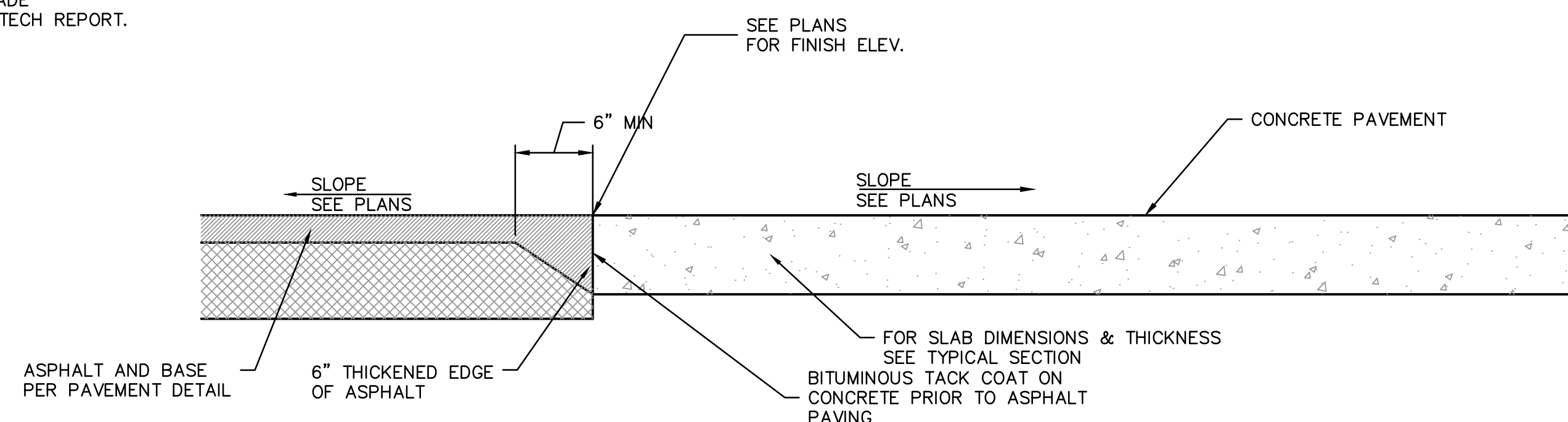


(TYPE CG-2 DRY)

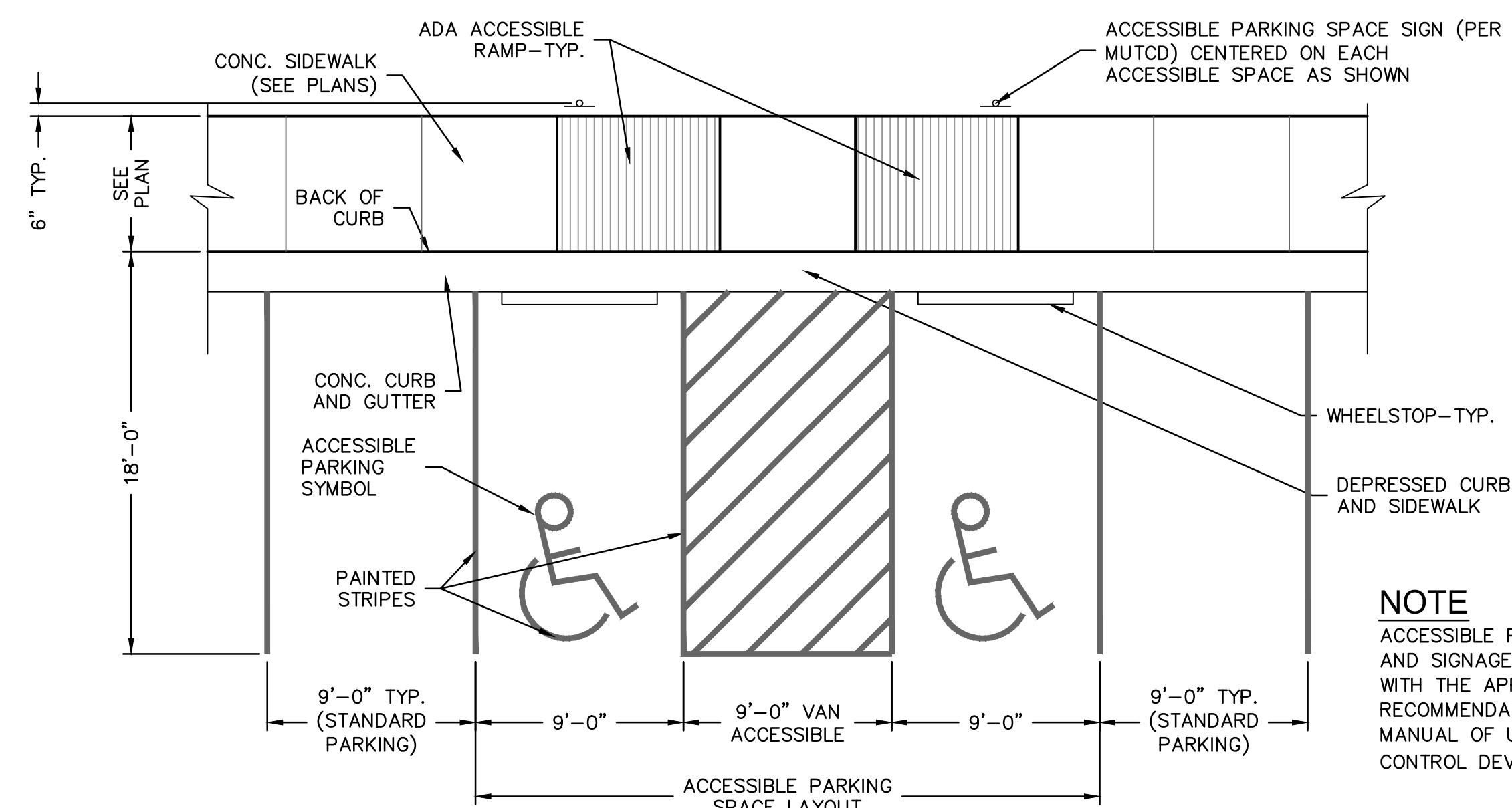


(ADA SLOPE REQUIREMENTS)

NOT TO SCALE



NOT TO SCALE



TYPICAL ADA PARKING SPACE LAYOUT DETAIL

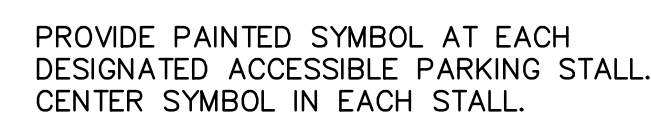
NOT TO SCALE



NOT TO SCALE

- ## NOTES

- NOTES**
1. SIGN TO BE PER LOCAL JURISDICTION REQUIREMENTS. VERIFY SIZE, SHAPE & VERBIAGE
 2. PROVIDE SIGN AT EACH HANDICAPPED ACCESSIBLE PARKING STALL.



ACCESSIBLE PARKING SYMBOL

ACCESSIBLE
NOT TO SCALE

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|----------|------------|-----------------------|-----|
| 1 | 10.10.2022 | QTY COMMENTS | CSM |
| 2 | 01.20.2023 | QTY COMMENTS | |
| 3 | 03.03.2023 | QTY COMMENTS | |
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REVISIONS

2023

LEE'S SUMMIT, MO

CONSTRUCTION DETAILS

RAINTREE VILLAGE FINAL DEVELOPMENT PLAN

LEE'S SUMMIT, MO

SHEET
C10.0

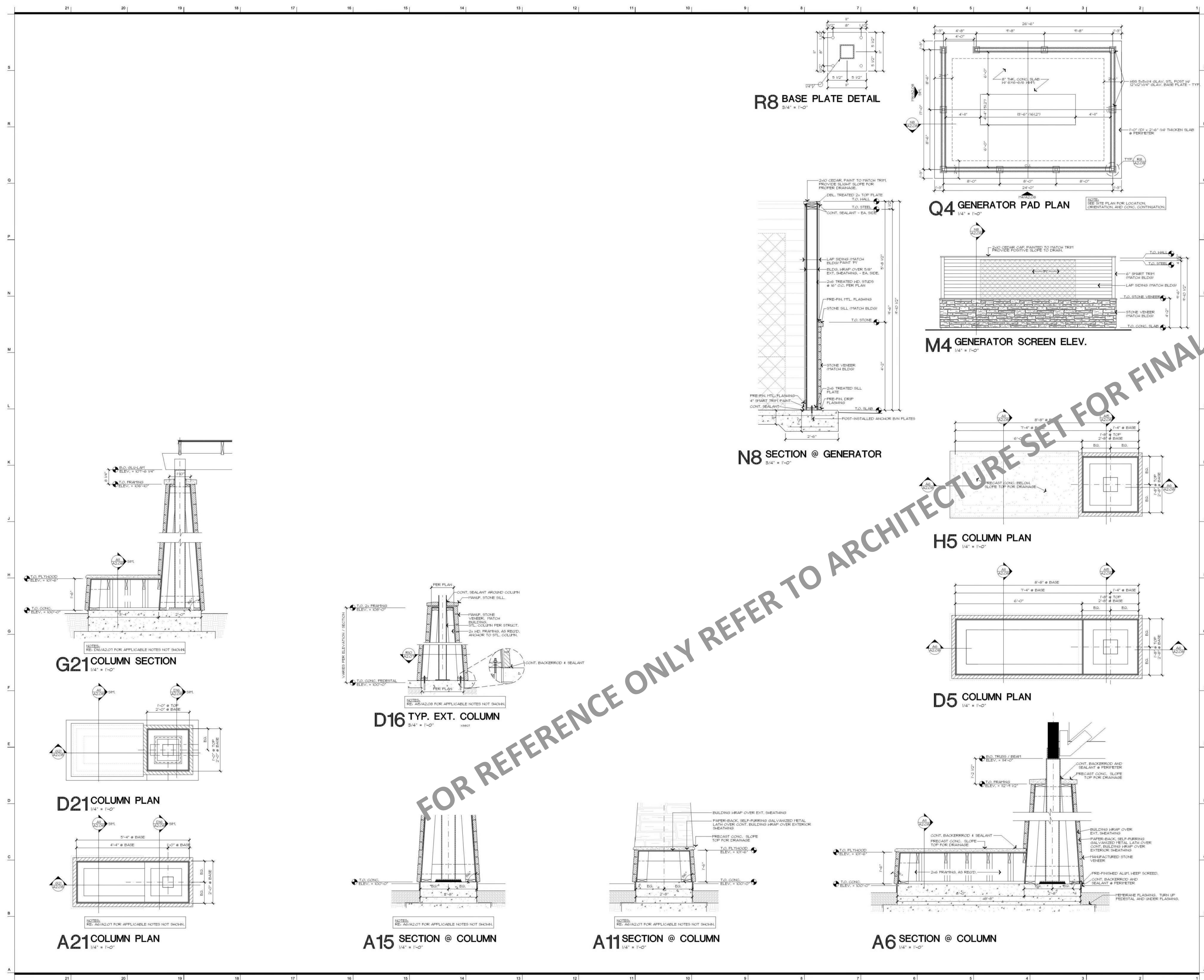
drawn by: _____ CSM
checked by: _____ CSM
approved by: _____ JS
QA/QC by: _____ JS
project no.: _____ A21-04054
drawing no.: C DTL01 A2104054
date: _____ 08.10.2022

olsson

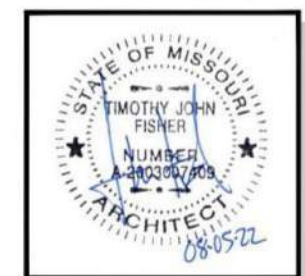
Olsson - Civil Engineering
Missouri Certificate of Authority #
1301 Burlington Street
North Kansas City, MO 64116

TEL 816.361.1177 www.olsson.com





J O B N U M B E R
— 2144 —
I S S U E D A T E
— 08 / 05 / 22 —
R E V I S I O N S



RAINTREE VILLAGE
CCRC OF LEE'S SUMMIT
1501 SW ARBORWALK BLVD., LEE'S SUMMIT, MO
SCENIC DEVELOPMENT, LLC



PORTE-COCHERE
 DETAILS
 A2.08

olsson

Olsson - Civil Engineering
Missouri Certificate of Authority #
1301 Burlington Street
North Kansas City, MO 64116

[illegible]

RAINTREE VILLAGE FINAL DEVELOPMENT PLAN

LEE'S SUMMIT, MO

REVISIONS

2023

SHEET

drawn by: _____ CSM
checked by: _____ CSM
approved by: _____ JS
QA/QC by: _____ JS
project no.: _____ A21-04054
drawing no.: _____
date: _____ 08.10.2022



NORTH ELEVATION - ILU WING



SOUTH ELEVATION - ILU WING



EAST ELEVATION - ILU WING



NORTH ELEVATION - ALU WING & V.C.



SOUTH COURTYARD ELEVATION - ILU WING



NORTH ELEVATION - ILU WING



EAST ELEVATION - ILU WING

ALUMINUM GUARDRAIL - BLACK

- EXTERIOR MATERIALS**
- MANUF. SHINGLE SIDING
 - MANUF. LAP SIDING
 - MANUF. TRIM
 - MANUF. STONE VENEER
 - ASPHALT SHINGLES
 - STAINED EXPOSED WOOD
 - VINYL WINDOWS

- EXTERIOR COLORS**
- SW7036: ACCESSIBLE BEIGE
 - SW2739: CHARCOAL BLUE
 - SW7669: SUMMIT GRAY
 - SW2802: ROCKWOOD RED
 - SW7005: PURE WHITE

RAINTREE VILLAGE

LEE'S SUMMIT, MO

SCENIC DEVELOPMENT LLC
RETIREMENT COMMUNITY DEVELOPERS



A2.01



NORTH ELEVATION - ALU WING



EAST ELEVATION - ALU WING



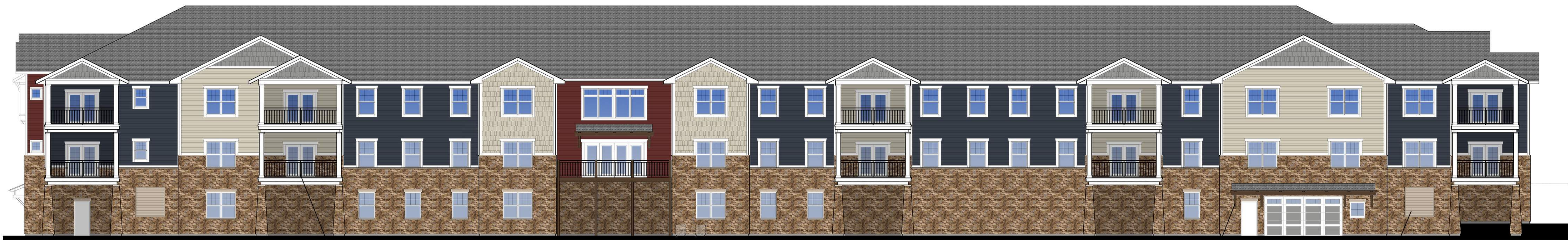
SOUTH ELEVATION - ILU WING



WEST ELEVATION - ALU WING



SOUTH ELEVATION - ALU WING



WEST ELEVATION - ILU WING

| EXTERIOR MATERIALS | |
|--------------------|-----------------------|
| - | MANUF. SHINGLE SIDING |
| - | MANUF. LAP SIDING |
| - | MANUF. TRIM |
| - | MANUF. STONE VENEER |
| - | ASPHALT SHINGLES |
| - | STAINED EXPOSED WOOD |
| - | VINYL WINDOWS |

| EXTERIOR COLORS | |
|-----------------|--------------------------|
| | SW7036: ACCESSIBLE BEIGE |
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| | SW7005: PURE WHITE |

RAINTREE VILLAGE

LEE'S SUMMIT, MO

SCENIC DEVELOPMENT LLC
RETIREMENT COMMUNITY DEVELOPERS



NORTH ELEVATION - SNF WING



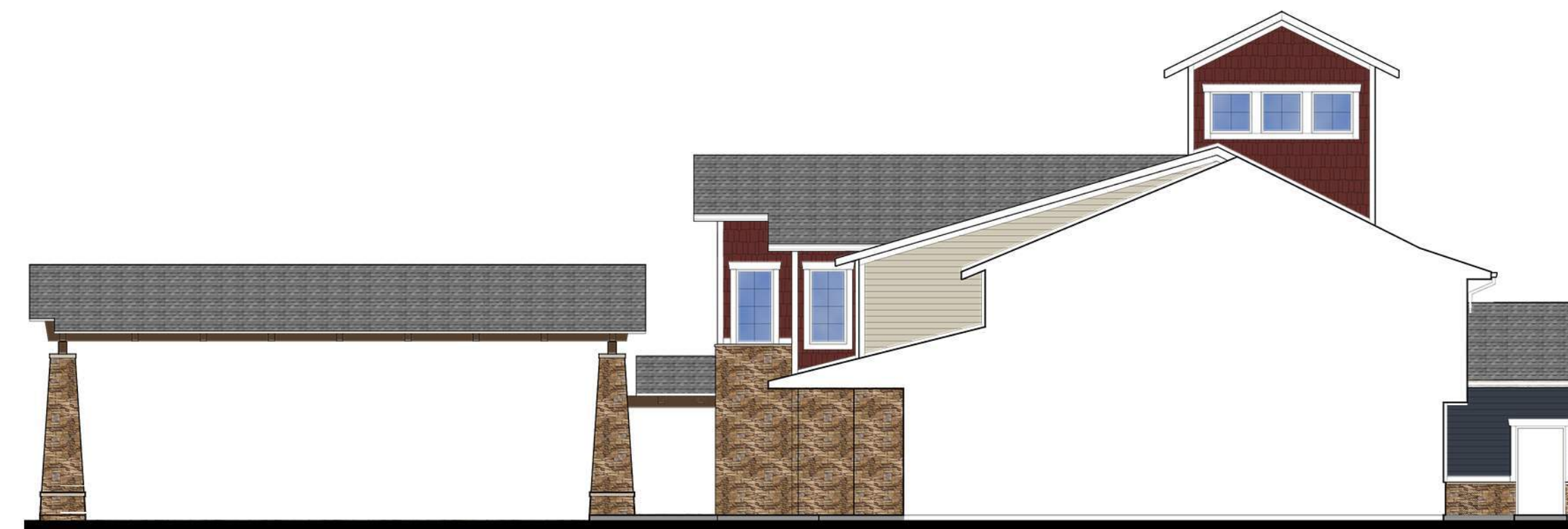
SOUTH AND WEST ELEVATION - SNF WING



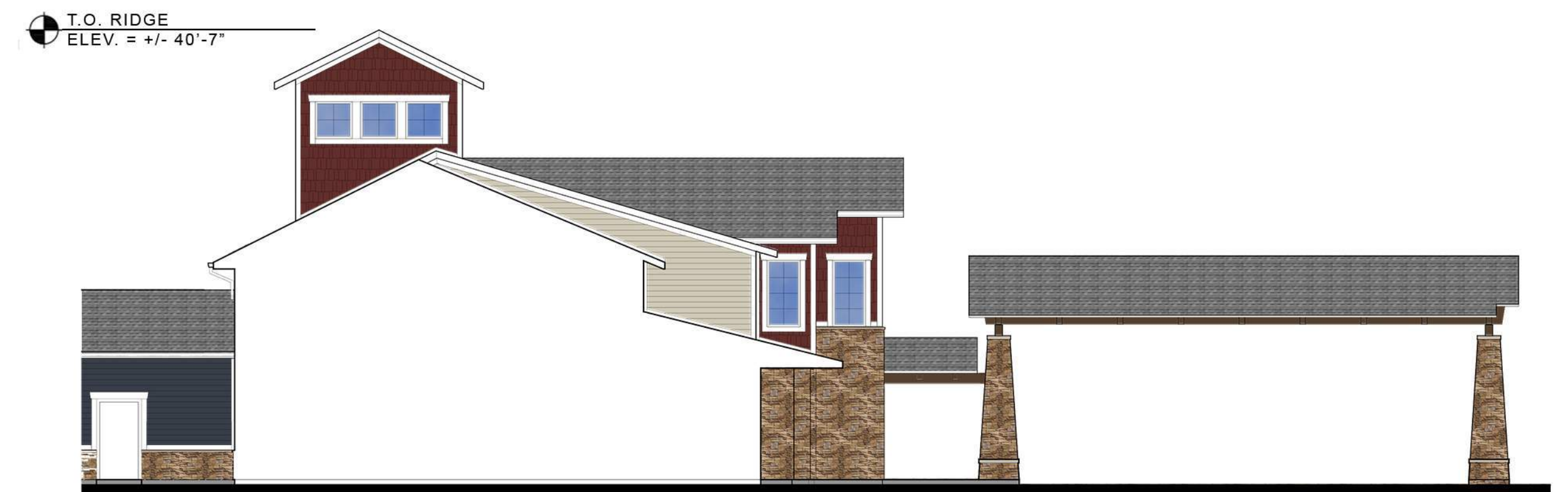
SOUTH COURTYARD ELEVATION - SNF WING



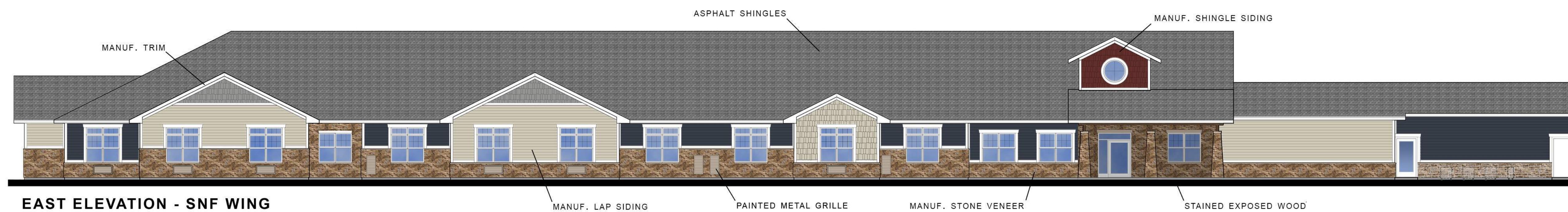
S.W. ELEVATION - SNF WING



WEST ELEVATION - VC & SNF WING



EAST ELEVATION - VC & SNF WING



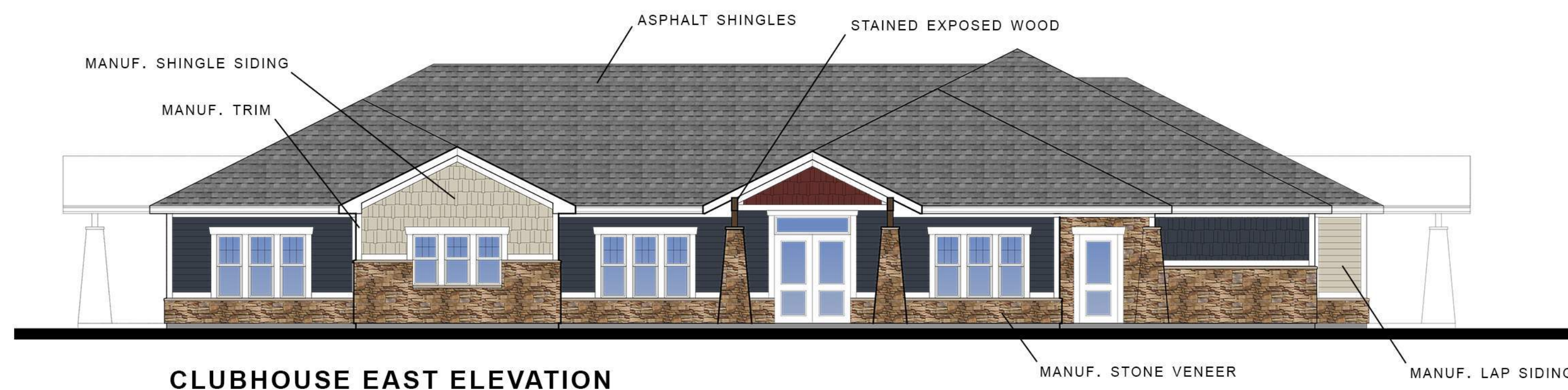
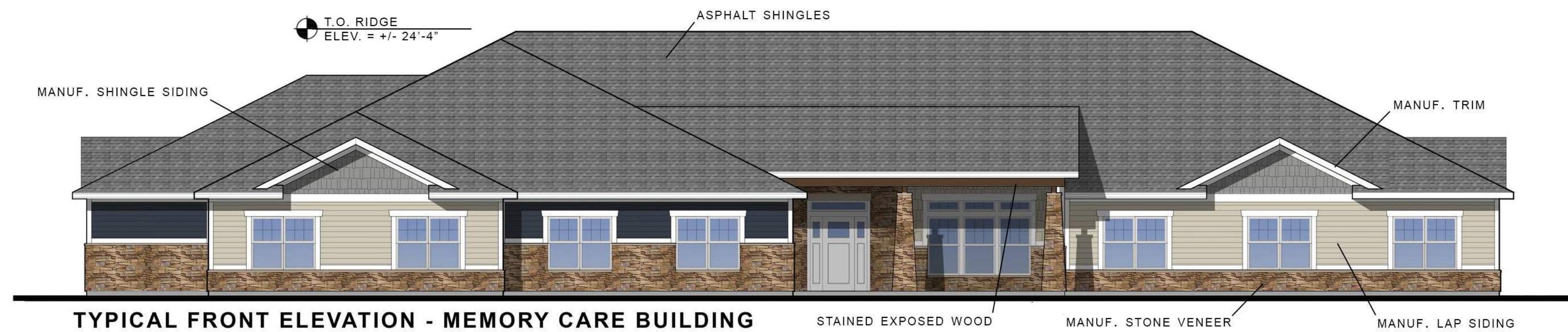
EAST ELEVATION - SNF WING



WEST COURTYARD ELEVATION - SNF WING

| EXTERIOR MATERIALS | |
|--------------------|-----------------------|
| - | MANUF. SHINGLE SIDING |
| - | MANUF. LAP SIDING |
| - | MANUF. TRIM |
| - | MANUF. STONE VENEER |
| - | ASPHALT SHINGLES |
| - | STAINED EXPOSED WOOD |
| - | VINYL WINDOWS |

| EXTERIOR COLORS | |
|-----------------|--------------------------|
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| | SW2739: CHARCOAL BLUE |
| | SW7669: SUMMIT GRAY |
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| | SW7005: PURE WHITE |



EXTERIOR MATERIALS

- MANUF. SHINGLE SIDING
- MANUF. LAP SIDING
- MANUF. TRIM
- MANUF. STONE VENEER
- ASPHALT SHINGLES
- STAINED EXPOSED WOOD
- VINYL WINDOWS

EXTERIOR COLORS

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- SW2739: CHARCOAL BLUE
- SW7669: SUMMIT GRAY
- SW2802: ROCKWOOD RED
- SW7005: PURE WHITE

RAINTREE VILLAGE

LEE'S SUMMIT, MO

SITE NOTES

1 THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR A COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEM.

2 MATERIALS AND INSTALLATION SHALL COMPLY WITH CODES, UTILITY REQUIREMENTS, LAWS AND ORDINANCES OF FEDERAL, STATE, OSHA AND LOCAL GOVERNING BODIES HAVING JURISDICTION.

3 THE CONTRACTOR SHALL COMPLY WITH ALL CODES AND STANDARDS APPLICABLE TO THIS PROJECT THAT ARE LISTED BUT NOT LIMITED TO: NEC, NFPA, NEMA, ANSI, ETC. EEE, NFPA LIFE SAFETY 100, ASHRAE 90.1, EEC ENERGY CODES AND ISO BUILDING CODE.

4 PRIOR TO ANY DIGGING, TRENCHING, ETC. CONTACT ALL LOCAL UTILITY COMPANIES AND MUNICIPALITIES AND CONFIRM EXACT LOCATIONS OF ALL EXISTING UTILITIES.

5 MATERIALS AND EQUIPMENT SHALL BE LISTED AND/OR LABELED BY UL OR ANOTHER NATIONALLY RECOGNIZED TESTING LABORATORY.

6 ALL MATERIAL, EQUIPMENT, WIRING DEVICES, ETC SHALL BE NEW, UNLESS SPECIFICALLY NOTED AS EXISTING TO BE REUSED.

7 ALL MATERIALS AND EQUIPMENT SHALL BE STORED, HANDLED, ERECTED, INSTALLED, CONNECTED, CLEANED, ADJUSTED, TESTED, CONDITIONED AND PLACED IN SERVICE IN ACCORDANCE WITH THE MANUFACTURERS DIRECTIONS AND RECOMMENDATIONS.

8 COORDINATE THE UTILITY COMPANY SERVICE FEES AND INSTALLATION.

9 ALL POLE FIXTURES TO BE LOCATED 4' AWAY FROM EDGE OF CURB.

10 ALL EXTERIOR LIGHT FIXTURES TO BE CONNECTED TO A COMMON EQUIPMENT GROUND. USE #6 TYPE THWN.

11 ALL CIRCUIT TO BE PLACED IN 1" CONDUITS UNLESS OTHERWISE NOTED. CIRCUIT TO USE COPPER WIRE, TYPE THWN.

12 THE CONTROLLING LIGHTING CONTRACTORS SHALL BE MOUNTED INSIDE THE BUILDING WITH TIME-CLOCK CONTROL. A REMOTE PHOTOCELLS LOCATED ON THE EXTERIOR SIDE OF THE BUILDING WALL. INSTALL PHOTOCELLS AT LOCATIONS WHERE BUILDING OR OTHER OBSTRUCTIONS WILL NOT INTERFERE WITH THEIR PROPER OPERATION. FINAL BRANCH CIRCUIT SUPPLY CONNECTIONS WILL BE PROVIDED BY THE BUILDING ELECTRICAL CONTRACTORS.

13 MIN. BURIAL DEPTH FOR THE LIGHTING CIRCUIT SHALL BE 24". A SLIGHT DECREASE IN DEPTH IS ALLOWED WITHIN 10' OF THE POLES.

14 VERIFY CONSTRUCTION AREAS ON OTHER SITE PLANS FOR POTENTIAL OBSTACLES AND CONSTRUCTION LIMITS.

ELECTRICAL GENERAL NOTES

1 ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

2 COORDINATE WORK WITH ALL OTHER TRADES.

3 EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

4 ALL WIRING SHALL BE INSTALLED IN APPROVED RACINGS.

5 ALL EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSTALLED AT ALL LOCATIONS.

6 ALL MEASUREMENTS TO TOP OF BOX. RECEPTABLES SHALL BE 20" A.F.F. SWITCHES SHALL BE 48" A.F.F.

7 GFI PROTECT ALL RECEPTABLES WITHIN 6' OF EVERY SINK.

8 DRAWINGS ONLY REPRESENT AN APPROXIMATE LOCATION OF ALL RECEPTABLES, SWITCHES, LIGHTS, TV/DATA JACKS, ELECTRICAL EQUIPMENT, ETC. FINAL LOCATIONS WILL BE DETERMINED IN THE FIELD AND MAY VARY FROM DRAWINGS DUE TO UNFORESEEN CIRCUMSTANCES.

9 PROVIDE GFCI PROTECTION FOR ALL AREAS LISTED UNDER NEC 210.8.

10 PROVIDE TAMPER RESISTANT RECEPTABLES IN ALL AREAS LISTED UNDER NEC 408.12.

| LIGHTING FIXTURE SCHEDULE | | | | | |
|---------------------------|-------------|-------|-------|---------|---|
| TYPE | MANUFACTURE | MODEL | LAMPS | WATTAGE | DESCRIPTION |
| AA | - | - | LED | 20 | SMALL EXTERIOR WALL PACK |
| BB | - | - | LED | 30 | MEDIUM EXTERIOR WALL PACK |
| CC | - | - | LED | 15 | EXTERIOR RECESSED DOWNLIGHT |
| DD | - | - | LED | 70 | POLE MOUNT FIXTURE, TYPE II OPTICS, 20' POLE |
| EE | - | - | LED | 70 | POLE MOUNT FIXTURE, TYPE III OPTICS, 20' POLE |
| FF | - | - | LED | 100 | POLE MOUNT FIXTURE, TYPE V OPTICS, 20' POLE |
| GG | - | - | - | - | DUAL HEAD FLOOD LIGHTS |

NOTES:

POWER & COMMUNICATION LEGEND

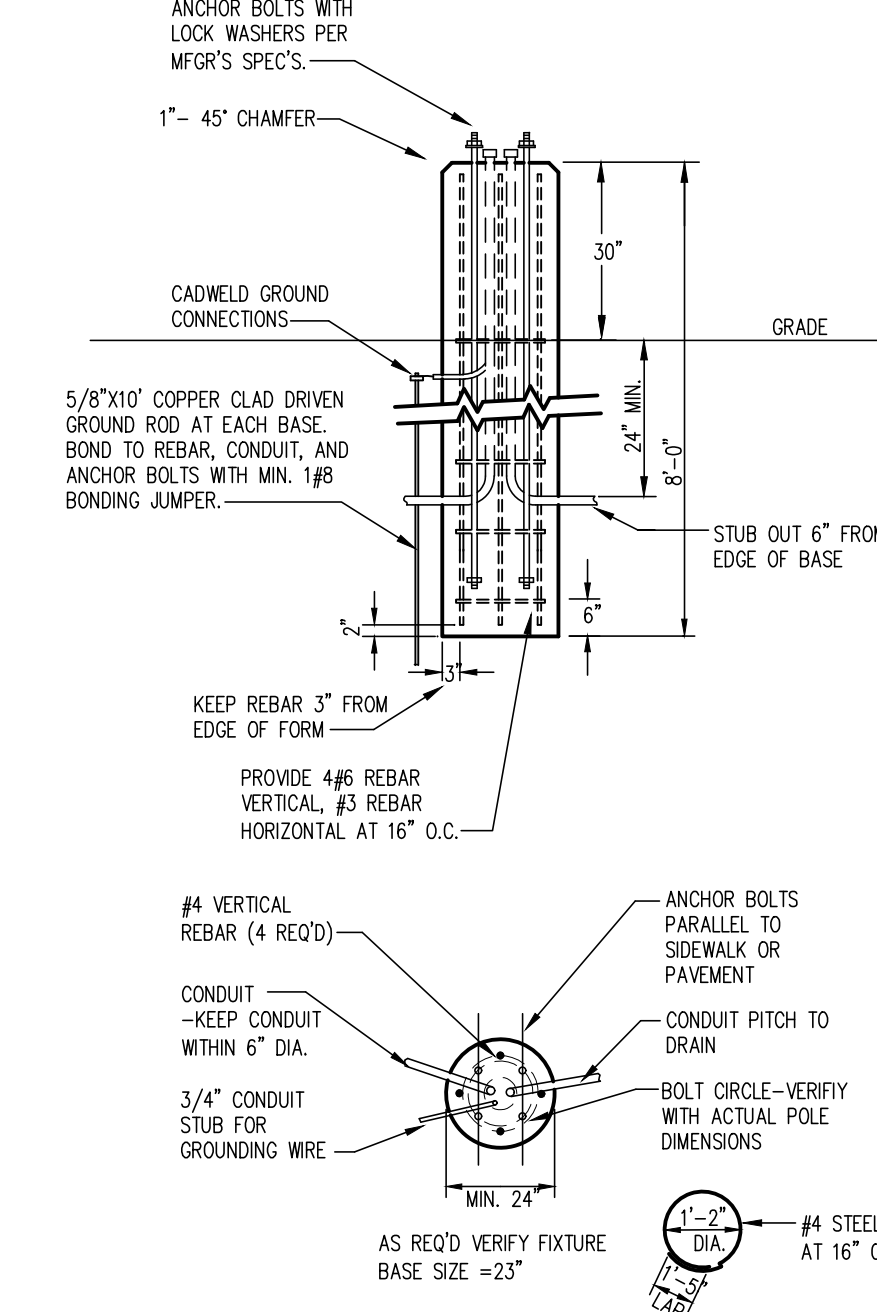
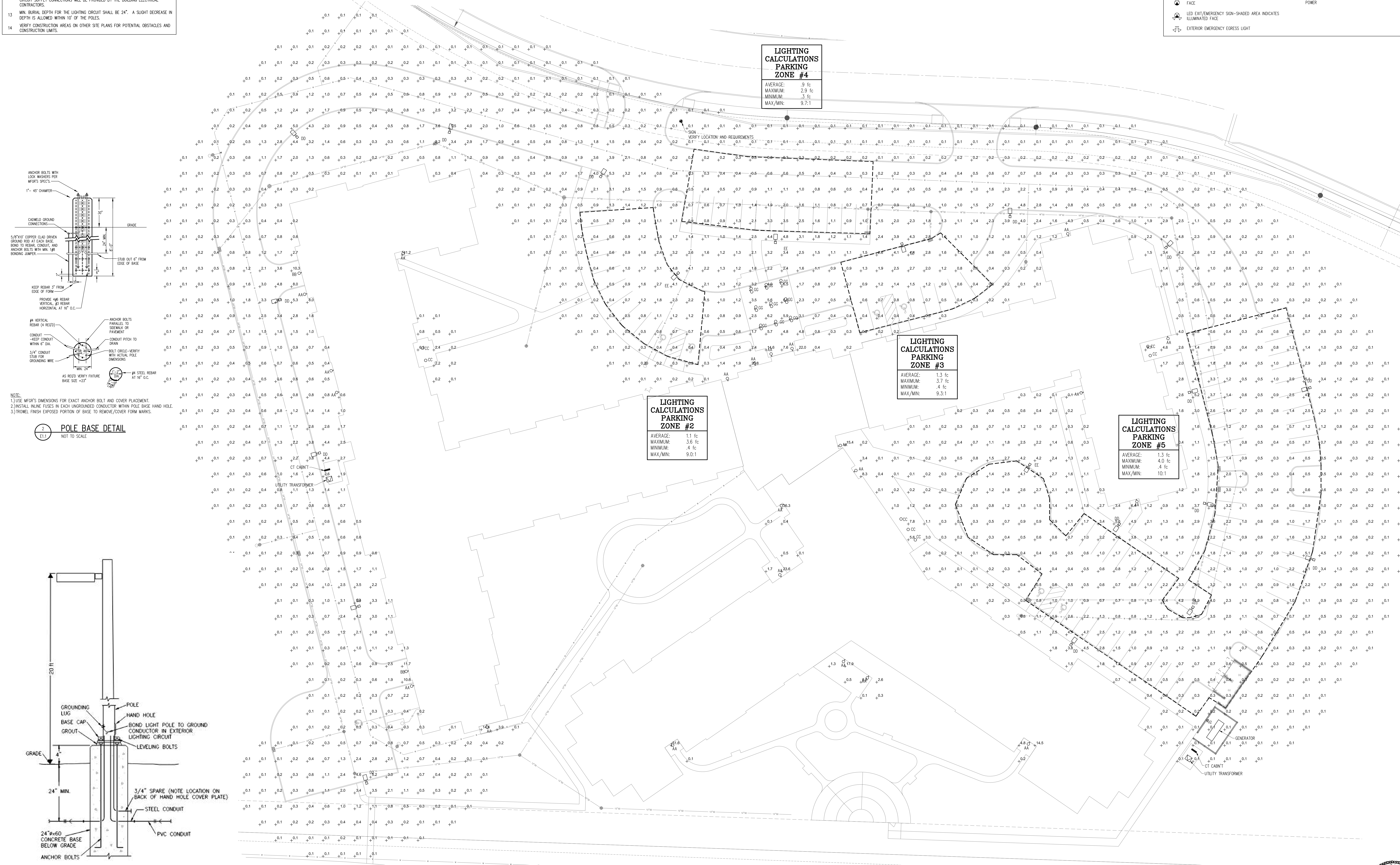
120V DUPLEX OUTLET
120V QUAD OUTLET
240 VOLT RECEPTACLE
DATA/COMMUNICATIONS OUTLET
TELEPHONE OUTLET
TELEVISION OUTLET
DATA/TV COMBO OUTLET
FLOOR OUTLET
JUNCTION BOX
EMERGENCY E-STOP FOR GRILL OR FIREPT
TIME CLOCK
TIMER FOR GRILL OR FIREPT
BELOW COUNTER OUTLET
AC ABOVE COUNTER OUTLET

MOTOR CONNECTION
ELECTRICAL DISCONNECT
ELECTRICAL STARTER DISCONNECT
ELECTRICAL CONNECTION W/ NON-FUSED DISCONNECT
ELECTRICAL CONNECTION W/ WEATHER PROOF DISCONNECTS
PANELBOARD
THERMOSTAT MOUNTED AT 48" A.F.F.
SMOKE/CO ALARM
SMOKE ALARM
NITROGEN DIOXIDE DETECTOR
CARBON MONOXIDE DETECTOR
GROUND FAULT CIRCUIT INTERRUPTER
WEATHER PROOF COVER WITH GROUND FAULT CIRCUIT INTERRUPTER

LIGHTING LEGEND

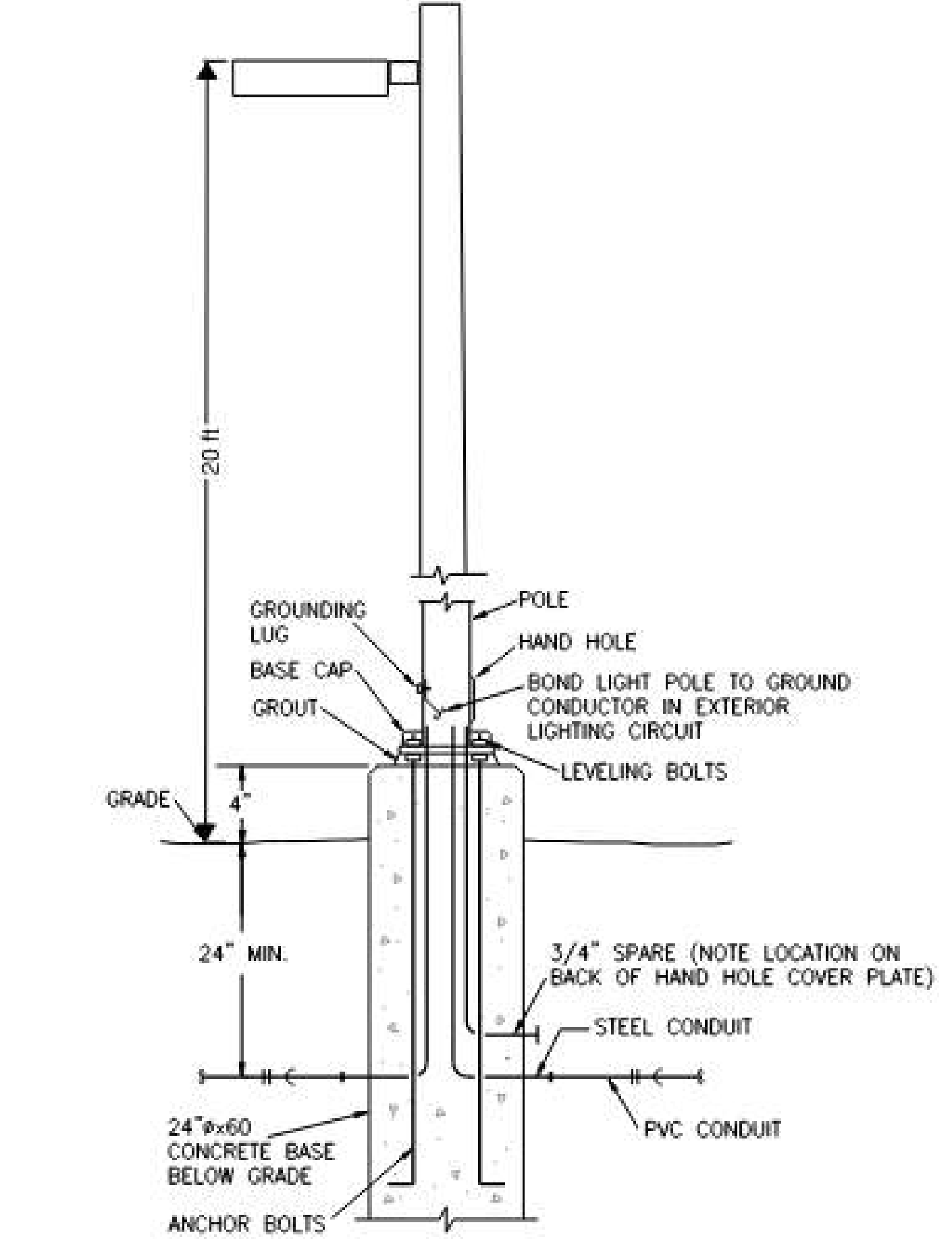
RECESSED 2x4 FIXTURE
RECESSED 2x2 FIXTURE
INDICATES NIGHTLIGHT FIXTURE
INDICATES EMERGENCY FIXTURE
INDICATES EMERGENCY/NIGHTLIGHT FIXTURE
SURFACE WALL MOUNTED FIXTURE
HIGH BAY 2x4 FIXTURE
SURFACE WALL MOUNTED FIXTURE
SURFACE CEILING MOUNT FIXTURE
RECESSED DOWNLIGHT OR DSC FIXTURE
SURFACE WALL MOUNTED FIXTURE
SURFACE MOUNTED FIXTURE
SURFACE MOUNTED PENDANT FIXTURE
OUTSIDE POLE-MOUNT LIGHT FIXTURE
EXTERIOR GROUND MOUNTED LIGHT FIXTURE
EMERGENCY LIGHTING FIXTURE
LED EXIT SIGN-SHADED AREA INDICATES ILLUMINATED FACE
LED EXIT EMERGENCY SIGN-SHADED AREA INDICATES ILLUMINATED FACE
EXTERIOR EMERGENCY EGRESS LIGHT

SINGLE POLE SWITCH
2-POLE SWITCH
3-WAY SWITCH
4-WAY SWITCH
WALL MOUNTED SINGLE LEVEL OCCUPANCY SENSOR - SEE SCHEDULE
WALL MOUNTED DUAL LEVEL OCCUPANCY SENSOR - SEE SCHEDULE
CEILING MOUNTED OCCUPANCY SENSOR - SEE SCHEDULE
INDICATES FIXTURE TO REMAIN ON FOR SECURITY PURPOSES
INDICATES LIGHT FIXTURE SWITCH-LESS
INDICATES PANEL AND CIRCUIT NUMBER
INDICATES LIGHT FIXTURE TYPE
INDICATES EXISTING FIXTURE
INDICATES RELOCATED FIXTURE
INDICATES FIXTURE TO REMAIN ON FOR SECURITY PURPOSES
INDICATES FIXTURE CONTROLLED BY TIMECLOCK
INDICATES FIXTURE ON EMERGENCY OR STANDBY POWER



NOTE:
1. USE MGR'S DIMENSIONS FOR EXACT ANCHOR BOLT AND COVER PLACEMENT.
2. INSTALL INLINE FUSES IN EACH UNGROUNDED CONDUCTOR WITH POLE BASE HAND HOLE.
3. REMOVE FINISH EXPOSED PORTION OF BASE TO REMOVE COVER FORM MARKS.

2 POLE BASE DETAIL
NOT TO SCALE



X LIGHTING POLE BASE DETAIL
NO SCALE

1 ELECTRICAL SITE PLAN
SCALE: 1\"/>



DRAWING NO. E.1.1

RAINTREE VILLAGE
CORC OF LEE'S SUMMIT
LEE'S SUMMIT, MO
ELECTRICAL SITE PLAN

DATE: 10/1/2021
AS SHOWN
DRAWN BY: J. AULT
CHECKED BY: J. AULT
JOB NO. 656

| DATE | REVISION | DESCRIPTION |
|-----------|----------|----------------------|
| 10/1/2021 | 1 | ISSUED FOR PERMIT |
| 10/1/2021 | 2 | REVISED PER COMMENTS |
| 10/1/2021 | 3 | REVISED PER COMMENTS |
| 10/1/2021 | 4 | REVISED PER COMMENTS |
| 10/1/2021 | 5 | REVISED PER COMMENTS |

BERRI ELECTRIC LLC
ELECTRICAL CONTRACTORS
1100 S. MAIN ST. SUITE 100
ST. LOUIS, MO 63103
TEL: 314.241.1100
FAX: 314.241.1101
www.berrielelectric.com

ACI
ARCHITECTURAL CONSULTING INC.
1100 S. MAIN ST. SUITE 100
ST. LOUIS, MO 63103
TEL: 314.241.1100
FAX: 314.241.1101
www.aciconsulting.com

DESIGNED BY: J. AULT
CHECKED BY: J. AULT
DATE: 10/1/2021
TIMOTHY J. AULT
REGISTERED PROFESSIONAL ENGINEER
STATE OF MISSOURI
LICENSE NO. 2011037416