

DWG: F:\2021\05001-05070\40-Desiree\AutoCAD\Final Plans\Sheets\GNV\Mass Grading\C\_GEN01\_02105070.dwg USER: msolson  
DATE: Feb 15, 2022 10:56am XREFS: C:\PTBLK\_02105070 C:\PSURF\_02105070 V\_XBOL\_02105070

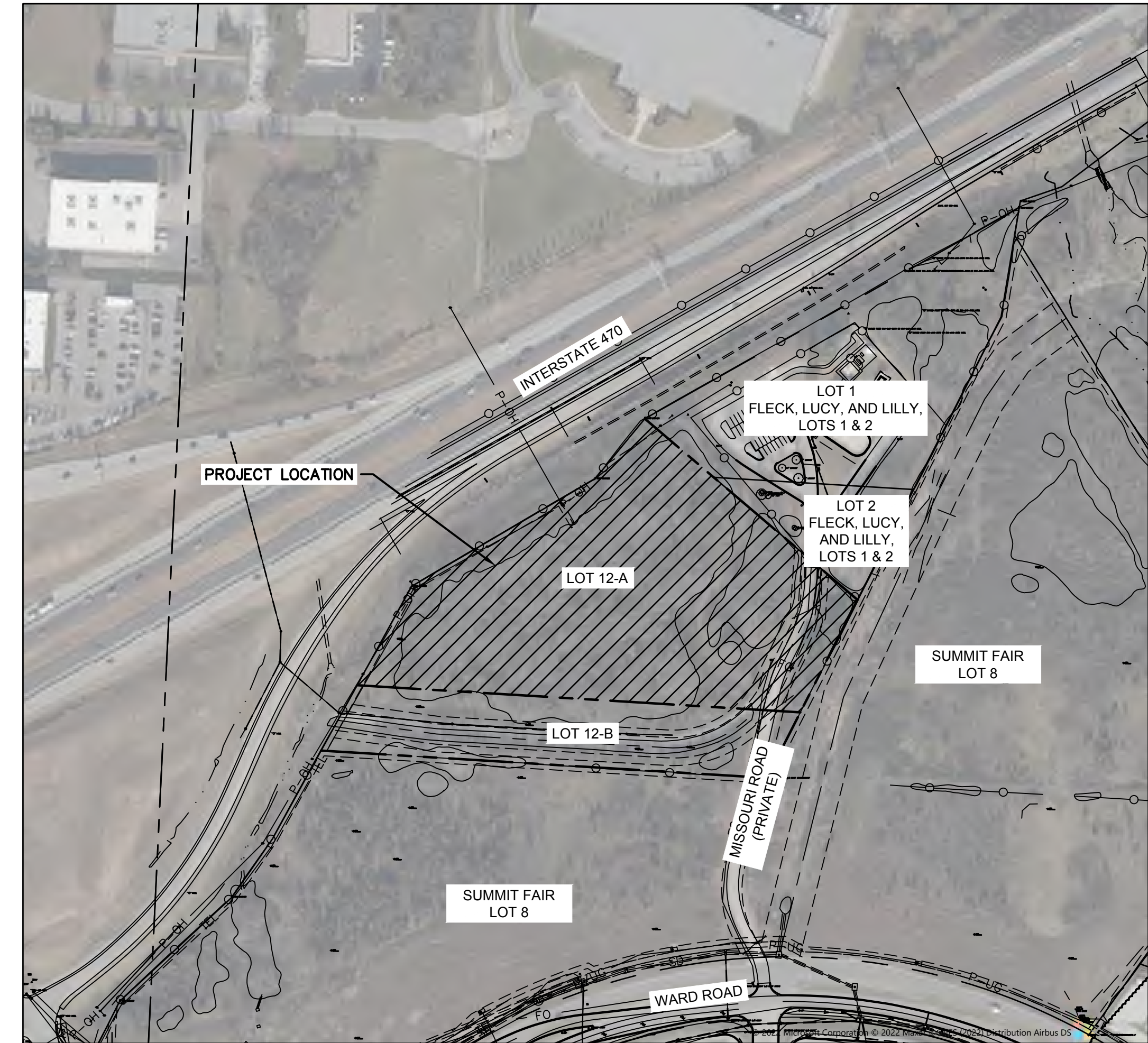


THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF THE SENATE BILL NUMBER 583, 78TH GENERAL ASSEMBLY OF THE STATE OF MISSOURI. THE BILL REQUIRES THAT ANY PERSON OR FIRM DOING EXCAVATION ON PUBLIC RIGHT-OF-WAY DO SO ONLY AFTER GIVING NOTICE TO, & OBTAINING INFORMATION FROM, UTILITY COMPANIES. STATE LAW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

MISSOURI STATE PLANE COORDINATE SYSTEM  
1983, MISSOURI WEST ZONE  
(2003 ADJUSTMENT)  
REFERENCE MONUMENT JA-43  
N-307528.309  
E-860514.793  
COMBINED SCALE FACTOR 0.99899480  
COORDINATES SHOWN IN METERS

LEGAL DESCRIPTION:

SUMMIT FAIR LOT 12A & 12B SUMMIT FAIR SECOND PLAT LEES SUMMIT, JACKSON COUNTY, MISSOURI.



LOCATION MAP

NOT TO SCALE

Source: GeoEye, GeoEye Inc., 2006-2007, 2008-2009, 2010-2011, 2012-2013, 2014-2015, 2016-2017, 2018-2019, 2020-2021, 2022-2023, 2024-2025, 2026-2027, 2028-2029, 2030-2031, 2032-2033, 2034-2035, 2036-2037, 2038-2039, 2040-2041, 2042-2043, 2044-2045, 2046-2047, 2048-2049, 2050-2051, 2052-2053, 2054-2055, 2056-2057, 2058-2059, 2060-2061, 2062-2063, 2064-2065, 2066-2067, 2068-2069, 2070-2071, 2072-2073, 2074-2075, 2076-2077, 2078-2079, 2080-2081, 2082-2083, 2084-2085, 2086-2087, 2088-2089, 2090-2091, 2092-2093, 2094-2095, 2096-2097, 2098-2099, 2100-2101, 2102-2103, 2104-2105, 2106-2107, 2108-2109, 2110-2111, 2112-2113, 2114-2115, 2116-2117, 2118-2119, 2120-2121, 2122-2123, 2124-2125, 2126-2127, 2128-2129, 2130-2131, 2132-2133, 2134-2135, 2136-2137, 2138-2139, 2140-2141, 2142-2143, 2144-2145, 2146-2147, 2148-2149, 2150-2151, 2152-2153, 2154-2155, 2156-2157, 2158-2159, 2160-2161, 2162-2163, 2164-2165, 2166-2167, 2168-2169, 2170-2171, 2172-2173, 2174-2175, 2176-2177, 2178-2179, 2180-2181, 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DWG: F:\2021\05001-05070\40-Design\AutoCAD\Final Plans\Sheets\NGV\Mass Grading\C\_GEN01\_02105070.dwg USER: msolson  
DATE: Feb 15, 2022 10:56am XREFS: C:\PTBLK\_02105070 C:\PSURF\_02105070 C:\XBASE\_02105070 V:\XBD\_02105070

GENERAL NOTES:

1. THE EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE ALL LINES PRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL "1-800-DIG-RITE", 1(800)344-7483 OR 811 AND COORDINATE FIELD LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING GRADING ACTIVITIES. !!STOP!! CALL BEFORE YOU DIG!!
2. DESIGN GRADING BASED ON SURVEY BENCHMARKS, AND DATUM PROVIDED BY ANDERSON ENGINEERING ON 11.12.2021
3. THE CONTRACTOR SHALL NOT CHANGE OR DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE OWNER AND ENGINEER.
4. ALL WORK AND MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE OWNER OR THE OWNER'S REPRESENTATIVE.
5. ALL ESTIMATES OF QUANTITIES ARE FOR INFORMATION PURPOSES ONLY. CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALL QUANTITIES AND FOR BRINGING THE PROJECT TO THE LINES AND GRADES SHOWN HEREIN. CONTRACTOR SHALL PROVIDE ALL WORK AND MATERIALS REQUIRED TO FULFILL THE PLANS IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE EARTHWORK QUANTITIES AND TO ACCOUNT FOR HAUL IN OR HAUL OFF OF MATERIAL AS NECESSARY TO MEET THE LINES AND GRADES OF THE PLANS EVEN IF QUANTITY ESTIMATES ARE SHOWN WITHIN THESE DOCUMENTS. NO ADDITIONAL PAYMENTS WILL BE MADE FOR IMPORT OR EXPORT OF MATERIAL OR FOR ADJUSTMENTS TO QUANTITY ESTIMATES.
6. ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL. IF ANY DISCREPANCIES EXIST WITHIN PLANS, CITY OF LEES SUMMIT DESIGN & CONSTRUCTION MANUAL OVERRIDES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS, PAYING ALL FEES AND FOR OTHERWISE COMPLYING WITH ALL APPLICABLE REGULATIONS GOVERNING THE WORK.
8. THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF MISSOURI STATE LAW WHICH REQUIRES THAT ANY PERSON OR FIRM DOING EXCAVATION ON PUBLIC RIGHT-OF-WAY DO SO ONLY AFTER GIVING NOTICE TO, AND OBTAINING INFORMATION FROM UTILITY COMPANIES.
9. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL NOTIFY ALL THOSE COMPANIES WHICH HAVE FACILITIES IN THE NEAR VICINITY OF THE CONSTRUCTION TO BE PERFORMED.
10. THE CONTRACTOR SHALL LIMIT THE REMOVAL OF TREES TO THE LIMITS OF DEMOLITION SHOWN ON THE DEMOLITION PLAN.
11. CLEARING AND GRUBBING OPERATIONS AND DISPOSAL OF ALL DEBRIS THEREFROM SHALL BE PERFORMED BY THE CONTRACTOR IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES.
12. ALL WASTE MATERIAL RESULTING FROM THE PROJECT SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR.
13. ALL MANHOLES, CATCH BASINS, UTILITY VALVES AND METER PITS ARE TO BE ADJUSTED OR REBUILT TO GRADE AS REQUIRED.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROL OF SURFACE EROSION DURING CONSTRUCTION AND UNTIL THE OWNER ACCEPTS THE WORK AS COMPLETE. EROSION CONTROL MEASURES INCLUDING, BUT NOT LIMITED TO, THE SILT FENCES AND GRAVEL FILTER BAGS SHOWN ON THE EROSION CONTROL PLAN SHALL BE IN PLACE FOR THE DURATION OF THE SITE IMPROVEMENTS.
15. ALL HDPE PIPE SHALL BE ADS (N-12) OR APPROVED EQUAL, AND CONFORM TO AASHTO M294 SPECIFICATIONS. ALL PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
16. IF PRECAST CONCRETE STORM SEWER STRUCTURES ARE TO BE USED ON THIS PROJECT, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND HAVE THEM APPROVED BY THE ENGINEER PRIOR TO FABRICATION OF THE STRUCTURES. FAILURE TO DO SO SHALL BE CAUSE FOR REJECTION.
17. SITE PREPARATION, GRADING AND EXCAVATION PROCEDURES SHALL CONFORM TO RECOMENDATIONS AS OUTLINED IN GEOTECHNICAL REPORT PROVIDED BY OLSSON, DATED OCTOBER 1, 2021, AND ALL ADDENDUMS FOR ADDITIONAL REQUIREMENTS.
18. THE CONTRACTOR SHALL, BY HIS OWN INVESTIGATION, AND PRIOR TO COMMENCING WORK, SATISFY HIMSELF AS TO THE SURFACE AND SUBSURFACE CONDITIONS TO BE ENCOUNTERED.
19. 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.
20. NO FEDERALLY OWNED MAILBOX MAY BE DISTURBED. THE CONTRACTOR SHALL GIVE AT LEAST TWENTY-FOUR (24) HOURS ADVANCE NOTICE TO THE MANAGER OF DELIVERY AND COLLECTIONS. TAMPERING WITH FEDERAL MAIL FACILITIES MAY SUBJECT THE CONTRACTOR TO PROSECUTION BY THE FEDERAL GOVERNMENT.
21. THE CONTOUR LINES SHOWN ARE FOR MASS GRADING PURPOSES.
22. THE CONTRACTOR SHALL FINISH GRADE SLOPES AS SHOWN NO STEEPER THAN 1 FOOT VERTICAL IN 3 FEET HORIZONTAL UNLESS OTHERWISE SHOWN BY CONTOURS OR SPOT ELEVATIONS.
23. THE CONTRACTOR SHALL MAKE HIS OWN ASSUMPTIONS ON THE LOCATION AND CONSISTENCY OF ANY EXISTING ROCK LAYERS UNDERLYING THE PROJECT SITE. ALL ROCK EXCAVATION AND REMOVAL SHALL BE INCLUDED IN THE CONTRACTORS' BID.
24. CONTRACTOR TO FIELD VERIFY ELEVATIONS AND LOCATIONS OF EXISTING UTILITIES AND INFRASTRUCTURE PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN PLANS AND FIELD CONDITIONS.
25. BY ACCEPTING AND UTILIZING ANY ELECTRONIC FILE OF ANY DRAWING, REPORT OR DATA TRANSMITTED BY OLSSON (OLSSON), THE RECIPIENT AGREES FOR ITSELF, ITS SUCCESSORS, ASSIGNS, INSURERS AND ALL THOSE CLAIMING UNDER OR THROUGH IT, THAT BY USING ANY OF THE INFORMATION CONTAINED IN THE ELECTRONIC FILE, ALL USERS AGREE TO BE BOUND BY THE FOLLOWING TERMS. ALL OF THE INFORMATION CONTAINED IN THIS ELECTRONIC FILE IS THE WORK PRODUCT AND INSTRUMENT OF SERVICE OF OLSSON, WHO SHALL BE DEEMED THE AUTHOR, AND SHALL RETAIN ALL COMMON LAW, STATUTORY LAW AND OTHER RIGHTS, INCLUDING COPYRIGHTS, UNLESS THE SAME HAVE PREVIOUSLY BEEN TRANSFERRED IN WRITING TO THE RECIPIENT. THE INFORMATION CONTAINED IN THE ELECTRONIC FILE IS PROVIDED FOR THE CONVENIENCE OF THE RECIPIENT AND IS PROVIDED IN "AS IS" CONDITION. THE RECIPIENT IS AWARE THAT DIFFERENCES MAY EXIST BETWEEN THE ELECTRONIC FILES AND THE PRINTED HARD-COPY ORIGINAL SIGNED AND SEALED DRAWINGS OR REPORTS. IN THE EVENT OF A CONFLICT BETWEEN THE SIGNED AND SEALED ORIGINAL DOCUMENTS PREPARED BY OLSSON AND THE ELECTRONIC FILES TRANSFERRED HERewith, THE SIGNED AND SEALED ORIGINAL DOCUMENTS SHALL GOVERN. OLSSON SPECIFICALLY DISCLAIMS ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ELECTRONIC FILES. IT SHALL BE THE RECIPIENT'S RESPONSIBILITY TO CONFIRM THE ACCURACY OF THE INFORMATION CONTAINED IN THE ELECTRONIC FILE AND THAT IF ACCURATELY REFLECTS THE INFORMATION NEEDED BY THE RECIPIENT. THE RECIPIENT SHALL NOT RETRANSMIT THE ELECTRONIC FILE, OR ANY PORTION THEREOF, WITHOUT INCLUDING THIS DISCLAIMER AS PART OF ANY SUCH TRANSMISSION. IN ADDITION, THE RECIPIENT AGREES, TO THE FULLEST EXTENT PERMITTED BY LAW, TO INDEMNIFY AND HOLD HARMLESS OLSSON, ITS OFFICERS, DIRECTORS, EMPLOYEES AND SUBCONSULTANTS AGAINST ANY AND ALL DAMAGES, LIABILITIES, CLAIMS OR COSTS, INCLUDING REASONABLE ATTORNEY'S AND EXPERT WITNESS FEES AND DEFENSE COSTS, ARISING FROM ANY CHANGES MADE BY ANYONE OTHER THAN OLSSON OR FROM ANY REUSE OF THE ELECTRONIC FILES WITHOUT THE PRIOR WRITTEN CONSENT OF OLSSON.
26. DESIGN PROFESSIONAL SHALL REVIEW SHOP DRAWINGS OR SAMPLES FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPTS ON THE PROJECT AND FOR COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS, AND SHALL NOT EXTEND TO MEANS OR METHODS OF CONSTRUCTION. THE DESIGN PROFESSIONAL'S REVIEW SHALL NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR ANY VARIATION FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS UNLESS CONTRACTOR HAS IN WRITING CALLED DESIGN PROFESSIONAL'S ATTENTION TO EACH SUCH VARIATION AT THE TIME OF SUBMISSION, AND DESIGN PROFESSIONAL HAS GIVEN WRITTEN APPROVAL OF EACH SUCH VARIATION BY SPECIFIC WRITTEN NOTATION THEREOF INCORPORATED INTO OR ACCOMPANYING THE SHOP DRAWNG OR SAMPLE; NOR WILL ANY APPROVAL BY THE DESIGN PROFESSIONAL RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS WITH CONFORMANCE TO CONTRACT DOCUMENTS.
27. GENERAL CONSTRUCTION NOTE REGARDING SEQUENCING OF EROSION CONTROL - ALL PERIMETER SILT FENCE, EARTH DIKES, SEDIMENT TRAPS, AND ROCK CONSTRUCTION ENTRANCES WILL BE INSTALLED BEFORE GRADING OPERATIONS BEGIN, EXCEPT THAT SILT FENCE WHICH IS TO BE PLACED ALONG THE BACK OF CURB FOR PROTECTION OF THE STREET. SILT FENCE AND EARTH DIKES THAT ARE PLACED BEFORE GRADING BEGINS WILL BE MAINTAINED BY THE GRADING CONTRACTOR UNTIL ALL UTILITIES ARE IN PLACE. THE SILT FENCE THAT IS PLACED ALONG THE BACK OF THE CURB OR RIGHT -OF-WAY WILL BE INSTALLED IMMEDIATELY AFTER THE CURB IS CONSTRUCTED. EROSION AND SEDIMENTATION CONTROLS ARE TEMPORARY AND MUST BE REMOVED BY THE CONTRACTOR AFTER CONSTRUCTION IS COMPLETE AND THE DISTURBED AREA IS AT LEAST 70% PERMANENTLY VEGETATED.
28. ALL ON-SITE WIRING AND CABLES SHALL BE PLACED UNDERGROUND.
29. ANY CONTRACTOR BIDDING ANY PORTION OF THIS WORK SHALL HAVE IN HIS OR HER POSSESSION A COMPLETE SET OF CONSTRUCTION DOCUMENTS AND BE FAMILIAR WITH ALL SCOPES OF WORK AND TRADES TO UNDERSTAND THEIR INTERACTIONS.
30. THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTION TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH AN INSPECTOR PRIOR TO ANY LAND DISTURBANCE WORK AT (816) 969-1200.

EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION & SEDIMENT CONTROL MEASURES AND PRACTICES THROUGHOUT THE PROJECT. ANY AND ALL FINES ASSOCIATED WITH EROSION CONTROL VIOLATIONS WILL BE THE CONTRACTOR'S RESPONSIBILITY.
2. EROSION CONTROL IS THE CONTRACTOR'S RESPONSIBILITY. THIS PLAN SHOULD BE USED AS A GUIDE AND REPRESENTS THE MINIMUM EROSION CONTROL DEVICES REQUIRED.
3. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
4. CONTRACTOR IS RESPONSIBLE FOR INSPECTING AND REPAIRING ALL EROSION AND SEDIMENT CONTROL DEVICES AFTER EACH RAINFALL EVENT.
5. THE CONTRACTOR SHALL PROVIDE ANY FURTHER EROSION CONTROL MEASURES IN ADDITION TO THOSE LISTED TO ENSURE THAT SILT WILL NOT LEAVE THE PROJECT CONFINES.
6. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED WITH A HEALTHY STAND OF PERMANENT VEGETATION.
7. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IF NOT REUSABLE ON-SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AT COMPLETION OF CONSTRUCTION.
8. THE CONTRACTOR SHALL ENSURE THAT ALL DRAINAGE STRUCTURES, FLUMES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
9. THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY STABILIZATION AS REQUIRED.
10. THE CONTRACTOR SHALL LEAVE THE EROSION CONTROL DEVICES AROUND ALL FIELD INLETS AT THE COMPLETION OF THE PROJECT.
11. THE CONTRACTOR SHALL PROVIDE AN INGRESS/EGRESS TRACKING PAD FOR VEHICULAR TRAFFIC AT A LOCATION APPROVED BY THE OWNERS REPRESENTATIVE.
12. ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL. ALL EROSION CONTROL DEVICES SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS AND DESIGN CRITERIA OF THE ENGINEERING DIVISION, DEPARTMENT OF PUBLIC WORKS, CITY OF LEE'S SUMMIT, MISSOURI AND THE MISSOURI DEPARTMENT OF NATURAL RESOURCES, WATER POLLUTION CONTROL DIVISION, MOST CURRENT EDITIONS.
13. AT ANY TIME DURING CONSTRUCTION THE CITY FIELD ENGINEERING INSPECTOR MAY REQUIRE ADDITIONAL EROSION/SILTATION CONTROL MEASURES TO BE INSTALLED IN ORDER TO ADDRESS PROBLEM SITUATIONS OBSERVED ON THE SITE. WHEN REQUIRED SUCH MEASURES SHALL BE INSTALLED WITHIN 48 HOURS OF THE CITY FIELD ENGINEERING INSPECTOR'S VERBAL OR WRITTEN ORDER.
14. PROPOSED CONTOURS SHOWN ARE TO FINISH GRADE AND REFLECT SURFACE ELEVATIONS.
15. THE CONTRACTOR SHALL PLACE SEED AND TURF REINFORCEMENT EXCELSIOR BLANKETS (OR OTHER APPROVED EQUAL EROSION CONTROL BLANKETS) ON ALL SLOPES 6:1 AND GREATER.
16. SEED ALL DISTURBED AREA PER CITY STANDARDS AND SPECIFICATIONS.



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, AND OBTAINING INFORMATION FROM, UTILITY COMPANIES. STATE LAW REQUIRES 48 HOURS ADVANCE NOTICE. CALL 1-800-DIG-RITE.

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GENERAL NOTES  
LAND DISTURBANCE PLANS

CHURCH AT WARD RD, LLC.  
1251 NW WARD ROAD

LEE'S SUMMIT, MO

drawn by: \_\_\_\_\_ HL  
checked by: \_\_\_\_\_ MO  
approved by: \_\_\_\_\_ BL  
QA/QC by: \_\_\_\_\_ MAP  
project no.: 021-05070  
drawing no.: C\_GEN01\_02105070  
date: 2022.02.15

SHEET  
LD1.2

BY

ISO

REV. NO.

DATE

REVISIONS DESCRIPTION

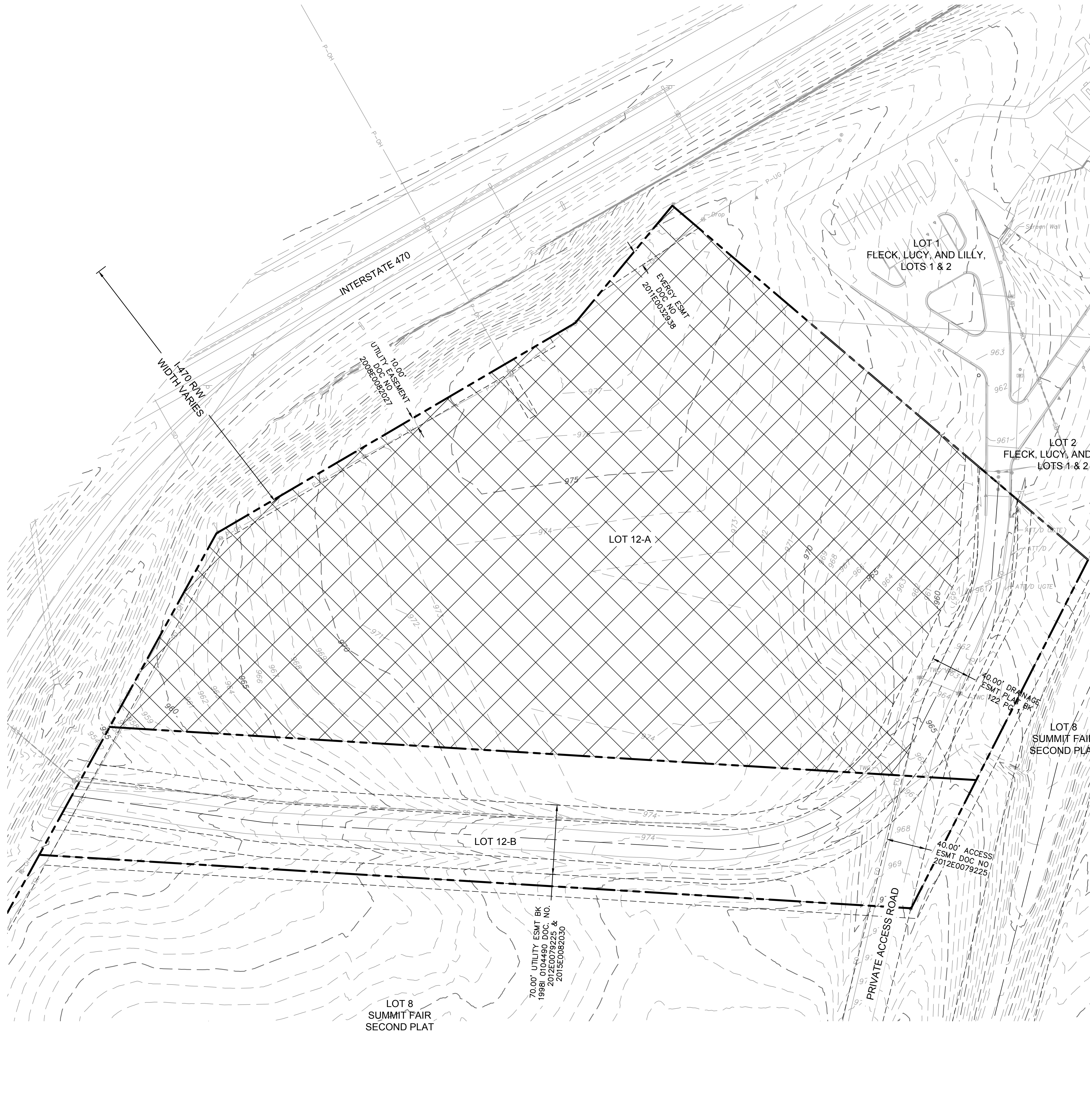
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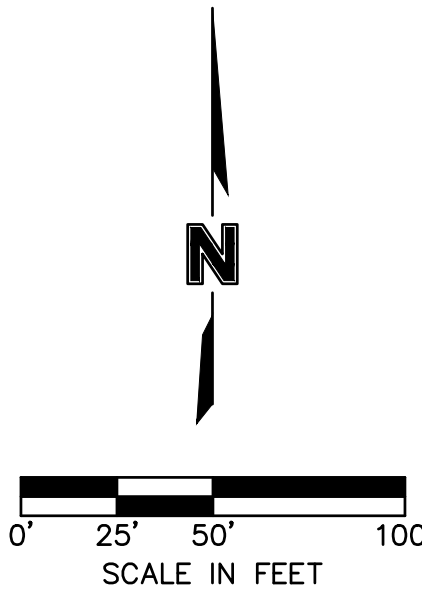
REVISIONS



## LEGEND

## NOTES

1. ALL TREE CLEARING ACTIVITIES TO BE PERFORMED ACCORDING TO CITY OF LEE'S SUMMIT STANDARDS AND SPECIFICATIONS AND APPLICABLE ORDINANCES
2. PER MISSOURI GEOLOGICAL SURVEY ACCESSED ON 02/23/2022, NO OIL/GAS WELLS WERE LOCATED ON-SITE
3. PER FEMA FLOOD MAP #2909SC0417G PANEL 0417 DATED JANUARY 20, 2017 PROJECT AREA RESIDES IN ZONE X - AREA OF MINIMAL FLOOD HAZARD



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Overland Park, KS 66213-4750  
TEL 913.381.1170 [www.olsson.com](http://www.olsson.com)

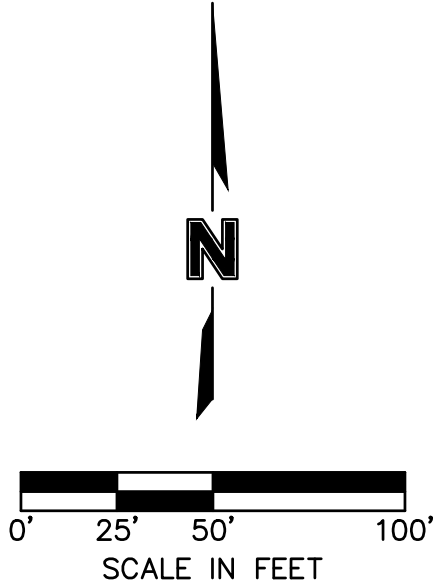
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SHEET  
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| LEGEND |                  |
|--------|------------------|
|        | PROPERTY LINE    |
|        | LOT LINE         |
|        | EXISTING CONTOUR |
|        | PROPOSED CONTOUR |



OVERALL GRADING PLAN  
LAND DISTURBANCE PLANS

CHURCH AT WARD RD, LLC.  
1251 NW WARD ROAD

LEE'S SUMMIT, MO

2022

REVISIONS

| REV. NO. | DATE       | REVISIONS DESCRIPTION     | BY  |
|----------|------------|---------------------------|-----|
| 1        | 02.15.2022 | REVISED PER CITY COMMENTS | MSO |
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|          |            |                           |     |
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|          |            |                           |     |
|          |            |                           |     |
|          |            |                           |     |

drawn by: \_\_\_\_\_ HL

checked by: \_\_\_\_\_ MO

approved by: \_\_\_\_\_ BL

QA/QC by: \_\_\_\_\_ MAP

project no.: 021-05070

drawing no.: C\_GRD01\_02105070

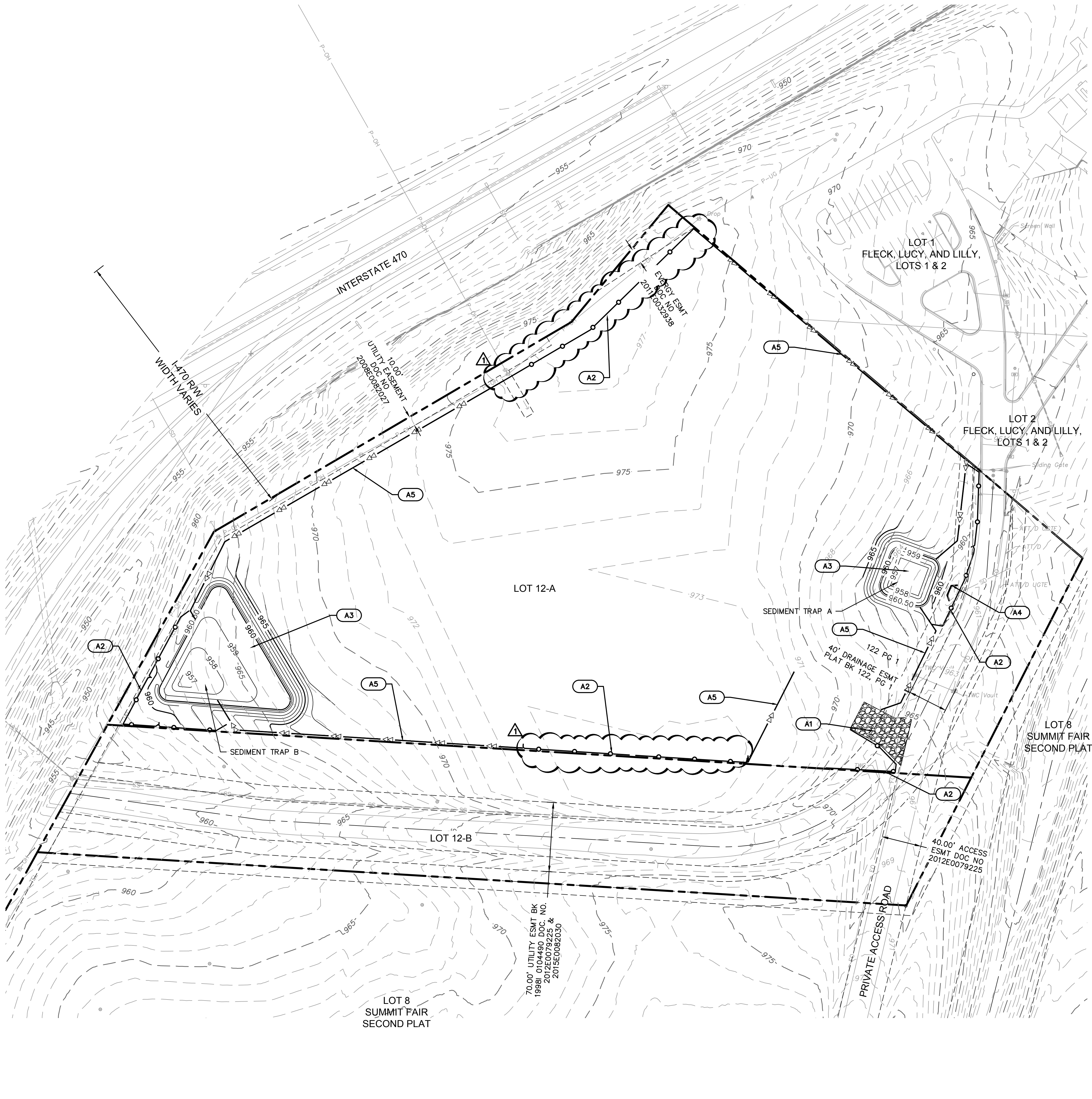
date: 2022.02.15

SHEET

LD3.0

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DWG: F:\2021\05001-05070\40-Design\AutoCAD\Final Plans\GNV\Mass Grading\C\_ER001\_02105070.dwg USER: msolson  
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LEGEND

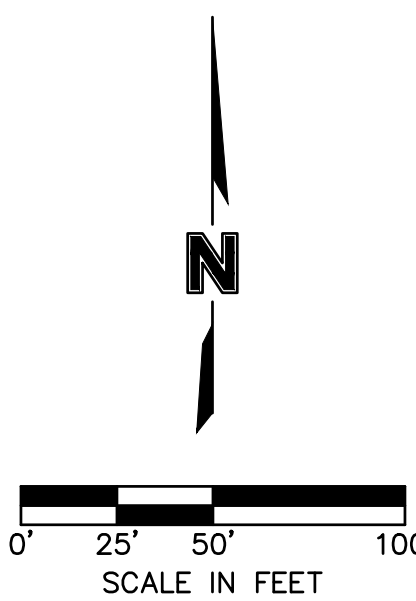
- PROPERTY LINE
- LOT LINE
- PROPOSED CONTOUR
- EXISTING CONTOUR
- LIMITS OF DISTURBANCE (7.50+/- ACRES)
- SILT FENCE
- TEMPORARY CONSTRUCTION ENTRANCE
- EROSION CONTROL REFERENCE NUMBER
- DIVERSION BERM

EROSION CONTROL STAGING CHART

| PROJECT STAGE           | EROSION CONTROL BMP REFERENCE NO. | BMP DESCRIPTION              | REMOVE AFTER STAGE | NOTES:                                                                         |
|-------------------------|-----------------------------------|------------------------------|--------------------|--------------------------------------------------------------------------------|
| A - PRE DISTURBANCE     | A1                                | CONSTRUCTION ENTRANCE        | C                  | INSTALL AS INDICATED ON PLANS (IF SITE DISRUPTION LASTS LONGER THAN 14 DAYS)   |
|                         | A2                                | SILT FENCE                   | C                  | INSTALL AS INDICATED ON PLANS                                                  |
|                         | A3                                | SEDIMENT TRAP                | SEE NOTE #1        | SEE DETAILS ON SHEETS LD4.3 & LD5.0                                            |
|                         | A4                                | COMPOST FILTER BERM          | C                  | INSTALL AS INDICATED ON PLANS                                                  |
|                         | A5                                | DIVERSION BERM               | C                  | INSTALL AS INDICATED ON PLANS                                                  |
| B - MASS GRADING        | B1                                | EROSION CONTROL MAT          | N/A                | INSTALL AS INDICATED ON PLANS                                                  |
| C - FINAL STABILIZATION | C1                                | REPLACE TOP SOIL, SEED MULCH | N/A                | ESTABLISH PERENNIAL VEGETATION WITH A 70% DENSITY OVER 100% OF DISTURBED AREA. |

NOTES

- SEDIMENT TRAPS "A" & "B" TO REMAIN ON SITE UNTIL SITE DEVELOPS. SEDIMENT TRAP "B" TO BE CONVERTED INTO DETENTION BASIN WHEN SITE DEVELOPS. SEDIMENT TRAP "A" TO BE FILLED IN AND REPLACED WITH STORM SEWER STRUCTURE & PIPING WHEN SITE DEVELOPS.



EROSION CONTROL PLAN - PRE DISTURBANCE  
LAND DISTURBANCE PLANS

CHURCH AT WARD RD, LLC.  
1251 NW WARD ROAD

LEE'S SUMMIT, MO

drawn by: \_\_\_\_\_ HL  
checked by: \_\_\_\_\_ MO  
approved by: \_\_\_\_\_ BL  
QA/QC by: \_\_\_\_\_ MAP  
project no.: 021-05070  
drawing no.: C\_ER001\_02105070  
date: 2022.02.15

SHEET  
LD4.0



| REV. NO. | DATE       | REVISIONS DESCRIPTION     |
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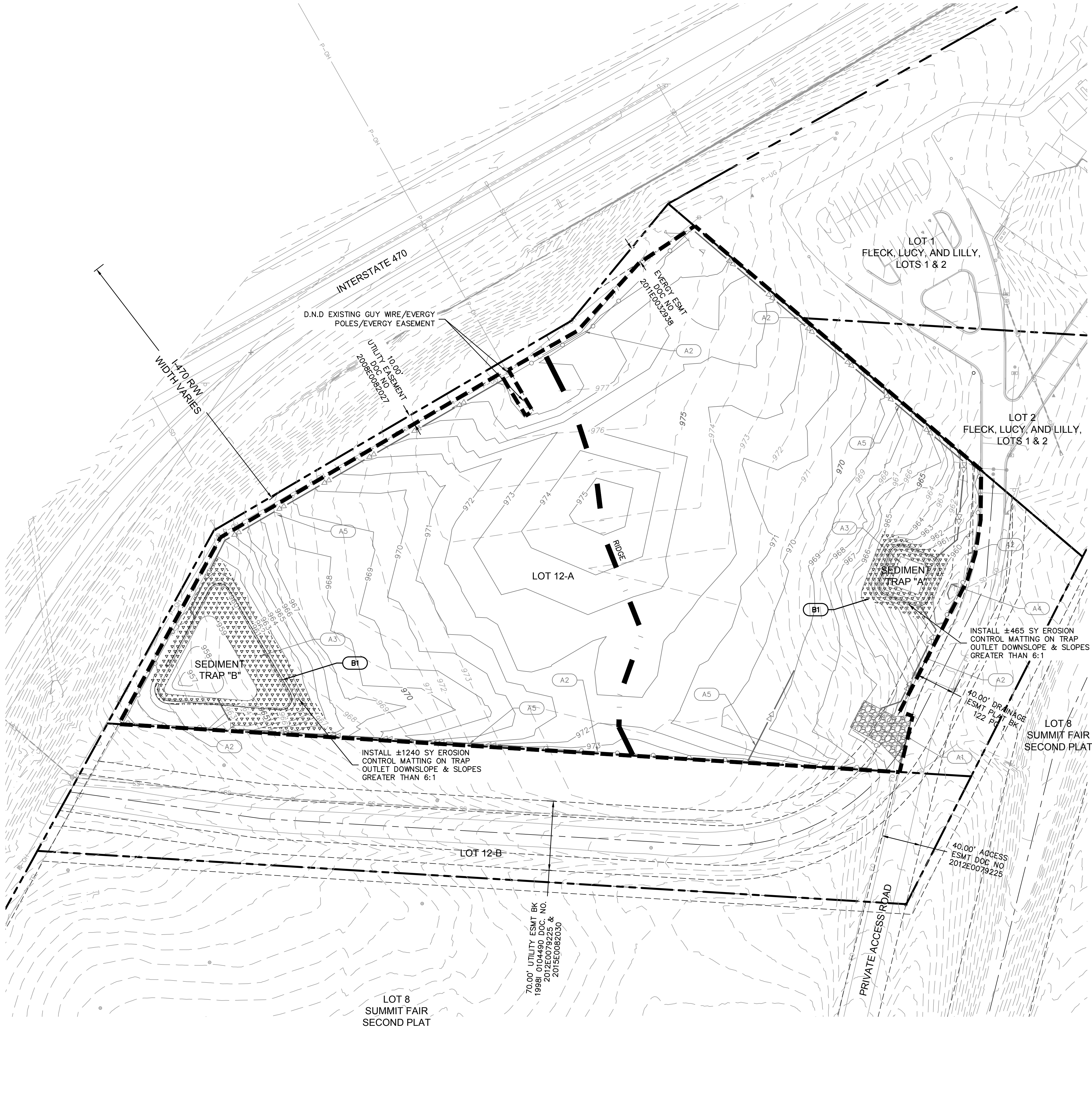
| BY | MSO |
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DWG: F:\2021\05001-05070\40-Design\AutoCAD\Final Plans\Sheets\GNC\Mass Grading\C\_ER002\_02105070.dwg USER: msolson  
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### LEGEND

- PROPERTY LINE
- LOT LINE
- PROPOSED CONTOUR
- EXISTING CONTOUR
- LIMITS OF DISTURBANCE (7.50+/- ACRES)
- SILT FENCE
- TEMPORARY CONSTRUCTION ENTRANCE
- EROSION CONTROL REFERENCE NUMBER

### EROSION CONTROL STAGING CHART

| PROJECT STAGE           | EROSION CONTROL BMP REFERENCE NO. | BMP DESCRIPTION               | REMOVE AFTER STAGE   | NOTES:                                                                         |
|-------------------------|-----------------------------------|-------------------------------|----------------------|--------------------------------------------------------------------------------|
| A - PRE DISTURBANCE     | A1                                | CONSTRUCTION ENTRANCE         | C                    | INSTALL AS INDICATED ON PLANS (IF SITE DISRUPTION LASTS LONGER THAN 14 DAYS)   |
|                         | A2                                | SLOPE PROTECTION (SILT FENCE) | C                    | INSTALL AS INDICATED ON PLANS                                                  |
|                         | A3                                | SEDIMENT TRAP                 | SEE NOTE #1 ON LD4.0 | SEE DETAILS ON SHEETS LD4.3 & LD5.0                                            |
|                         | A4                                | COMPOST FILTER BERM           | C                    | INSTALL AS INDICATED ON PLANS                                                  |
|                         | A5                                | DIVERSION BERM                | C                    | INSTALL AS INDICATED ON PLANS                                                  |
| B - MASS GRADING        | B1                                | EROSION CONTROL MAT           | N/A                  | INSTALL AS INDICATED ON PLANS                                                  |
| C - FINAL STABILIZATION | C1                                | REPLACE TOP SOIL, SEED, MULCH | N/A                  | ESTABLISH PERENNIAL VEGETATION WITH A 70% DENSITY OVER 100% OF DISTURBED AREA. |

EROSION CONTROL PLAN - MASS GRADING  
LAND DISTURBANCE PLANS

CHURCH AT WARD RD, LLC.  
1251 NW WARD ROAD

LEE'S SUMMIT, MO

drawn by: HL  
checked by: MO  
approved by: BL  
QA/QC by: MAP  
project no.: 021-05070  
drawing no.: C\_ER002\_02105070  
date: 2022.02.15

SHEET  
LD4.1

REV. NO. 1  
DATE 02.15.2022  
REVISED PER CITY COMMENTS

BY MSO

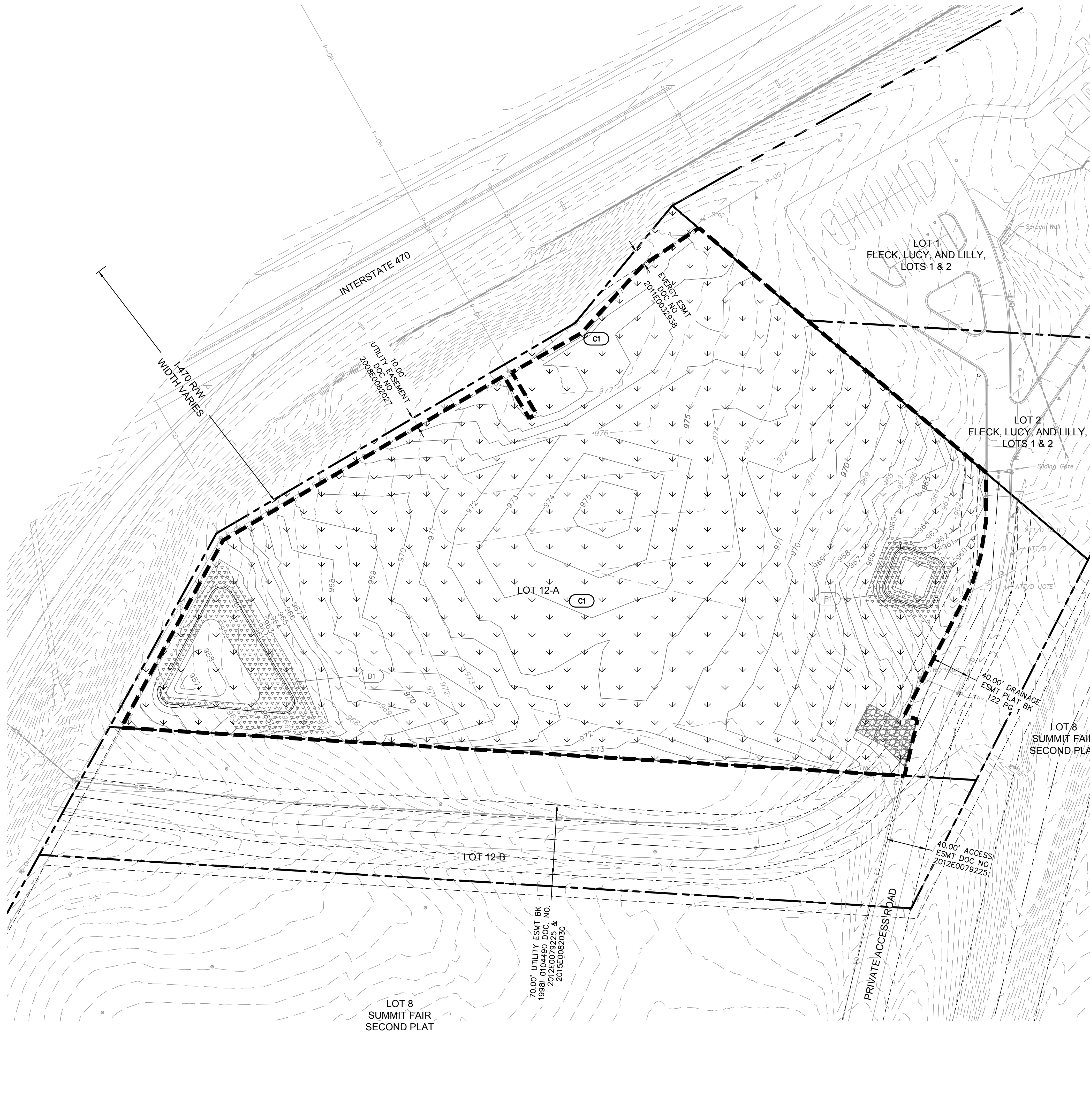
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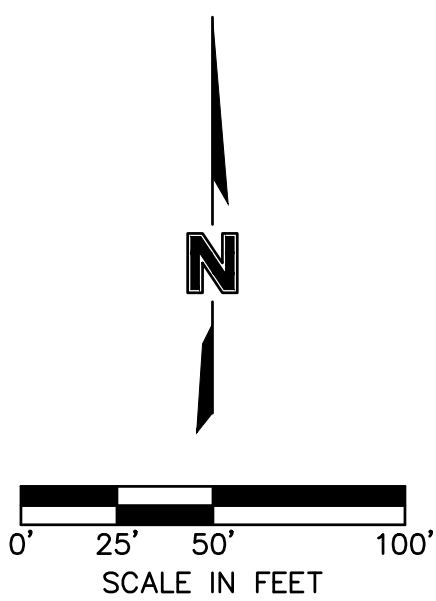


### LEGEND

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# EROSION CONTROL STAGING CHART

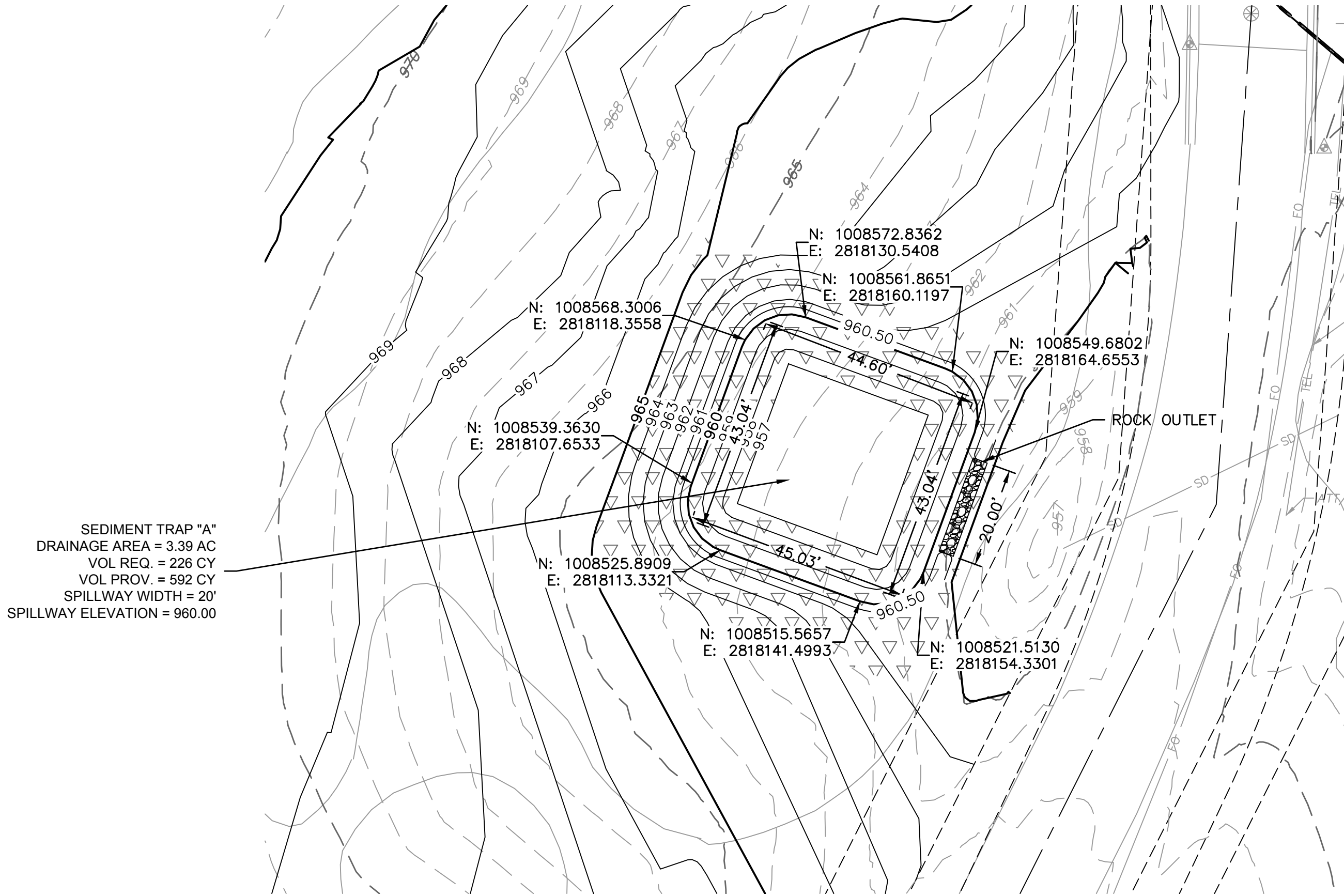
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| A – PRE DISTURBANCE     | A1                                | CONSTRUCTION ENTRANCE         | C                    | INSTALL AS INDICATED ON PLANS (IF SITE DISRUPTION LASTS LONGER THAN 14 DAYS)   |
|                         | A2                                | SLOPE PROTECTION (SILT FENCE) | C                    | INSTALL AS INDICATED ON PLANS                                                  |
|                         | A3                                | SEDIMENT TRAP                 | SEE NOTE #1 ON LD4.0 | SEE DETAILS ON SHEETS LD4.3 & LD5.0                                            |
|                         | A4                                | COMPOST FILTER BERM           | C                    | INSTALL AS INDICATED ON PLANS                                                  |
|                         | A5                                | DIVERSION BERM                | C                    | INSTALL AS INDICATED ON PLANS                                                  |
| B – MASS GRADING        | B1                                | EROSION CONTROL MAT           | N/A                  | INSTALL AS INDICATED ON PLANS                                                  |
| C – FINAL STABILIZATION | C1                                | REPLACE TOP SOIL, SEED, MULCH | N/A                  | ESTABLISH PERENNIAL VEGETATION WITH A 70% DENSITY OVER 100% OF DISTURBED AREA. |



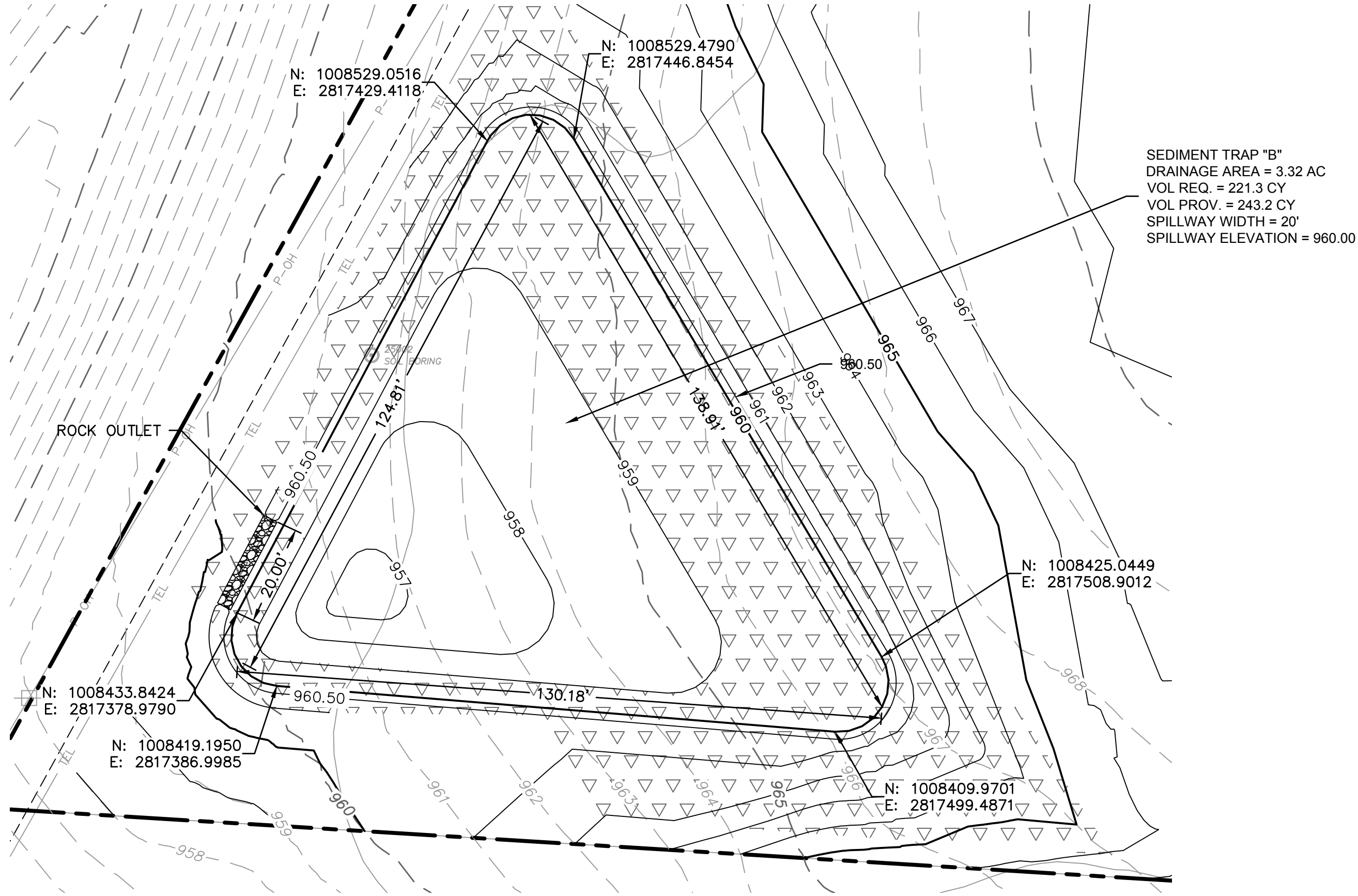
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DATE: Feb 15, 2022 10:36am C:\BASE\02105070 V\_XB01\_02105070 C\_PSURF\_02105070

| SEDIMENT TRAP DESIGN DATA       |         |         |       |                        |
|---------------------------------|---------|---------|-------|------------------------|
| TITLE: CHURCH AT WARD ROAD, LLC |         |         |       |                        |
| JOB #: 021-05070                |         |         |       |                        |
| Design Item:                    | Trap #A | Trap #B | Units | Notes:                 |
| <i>Pond Data</i>                |         |         |       |                        |
| Drainage Area                   | 3.32    | 3.39    | acres |                        |
| Required Volume (1800 cf/acre)  | 221.3   | 226.0   | cy    |                        |
| Provided Volume                 | 243.2   | 592.0   | cy    |                        |
| Excavated Volume                | 858.0   | 2250.0  | cy    |                        |
| Sediment Cleanout Volume        | 48.6    | 118.4   | cy    | 20% OF PROVIDED VOLUME |
| Sediment Cleanout Elevation     | 958.4   | 959.0   |       |                        |

SEDIMENT TRAP "A" DETAIL



SEDIMENT TRAP "B" DETAIL



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Professional Engineer  
No. 00120377  
Exp. 12-31-22

2-15-22

BY

MSO

REVISIONS DESCRIPTION

REVISED PER CITY COMMENTS

DATE

02.15.2022

REV. NO.

1

SEDIMENT TRAP DETAILS  
LAND DISTURBANCE PLANS

CHURCH AT WARD RD, LLC.  
1251 NW WARD ROAD

LEE'S SUMMIT, MO

2022

drawn by: HL

checked by: MO

approved by: BL

QA/QC by: MAP

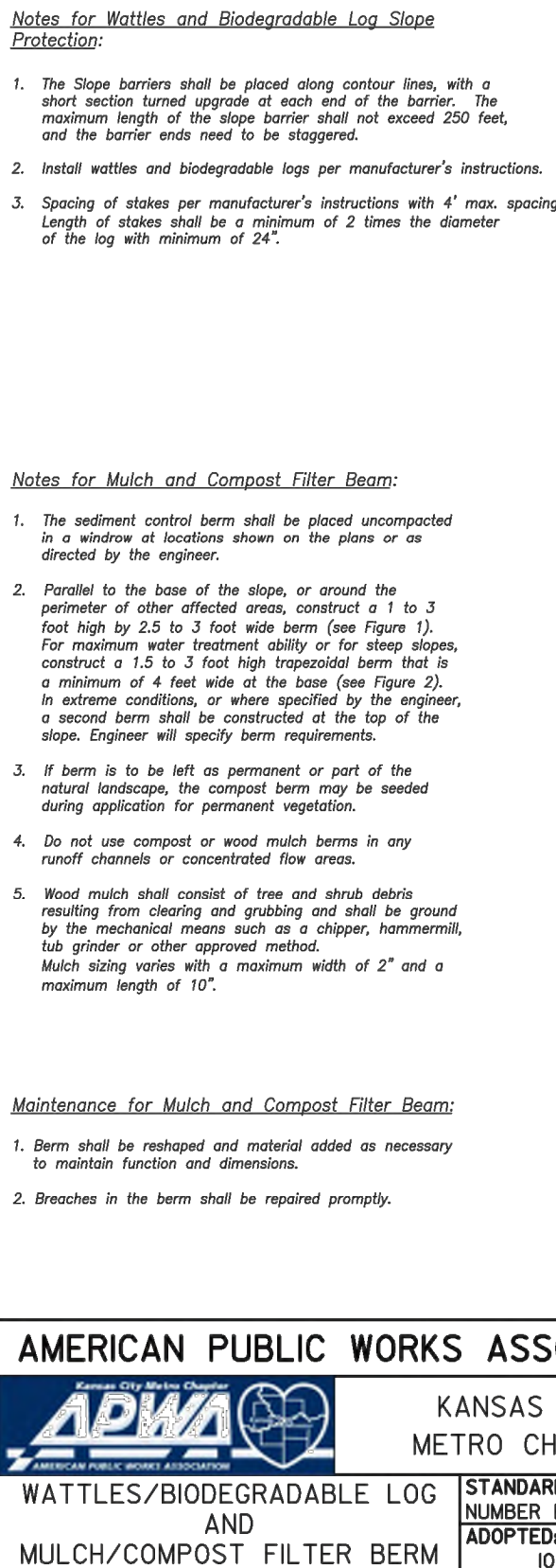
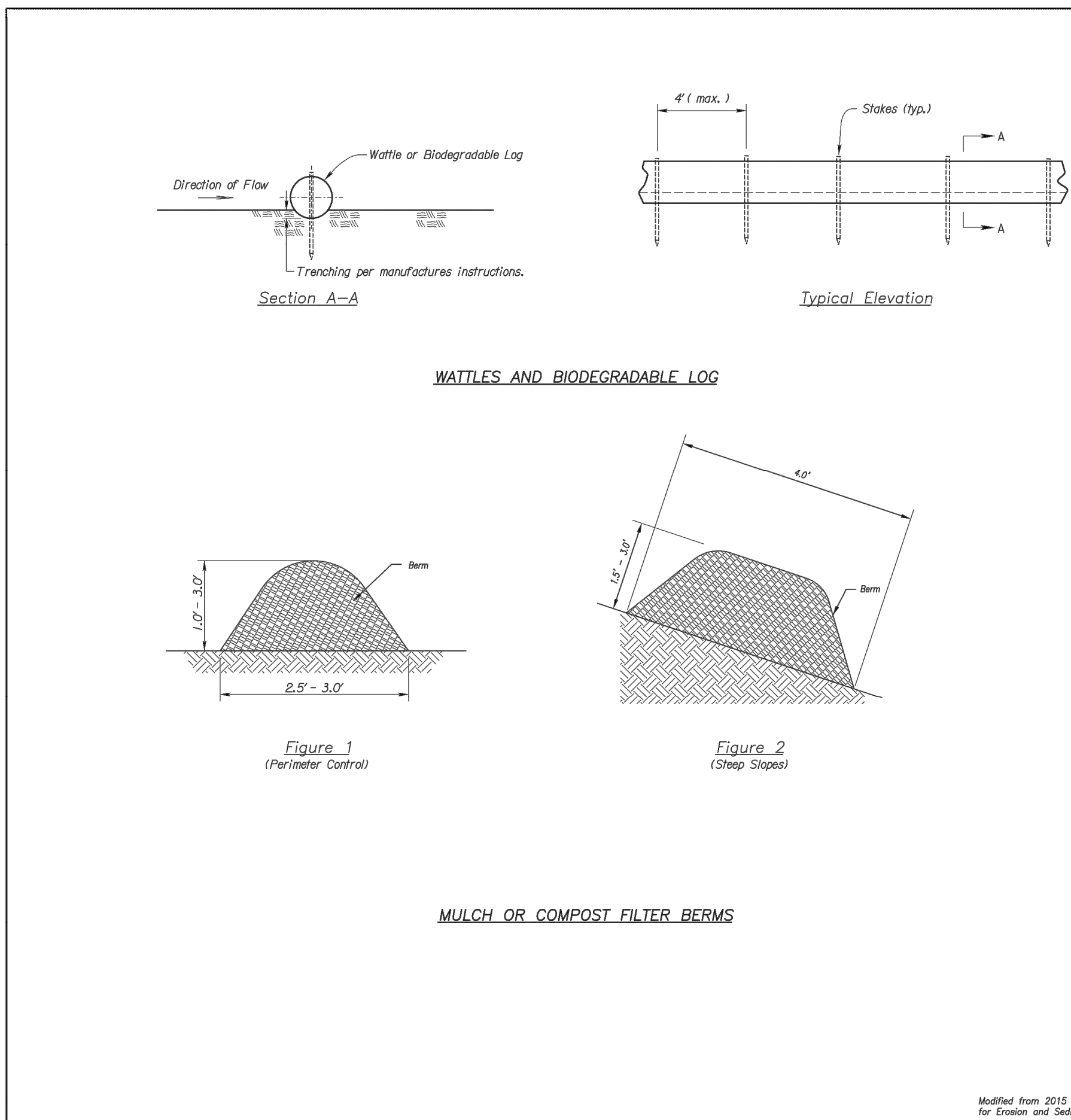
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drawing no.: C\_DRN01\_02105070

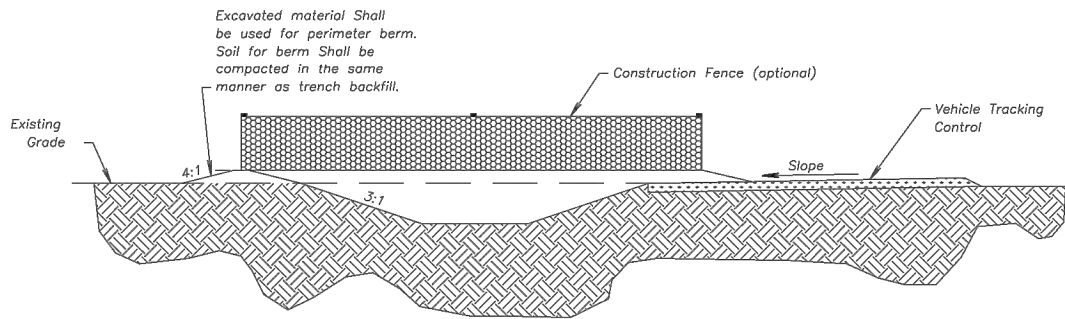
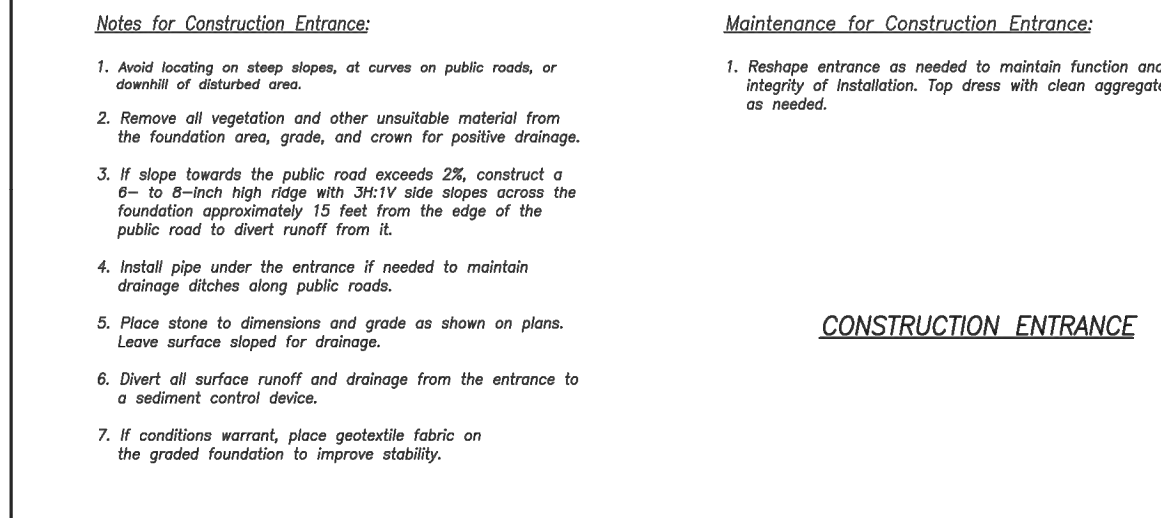
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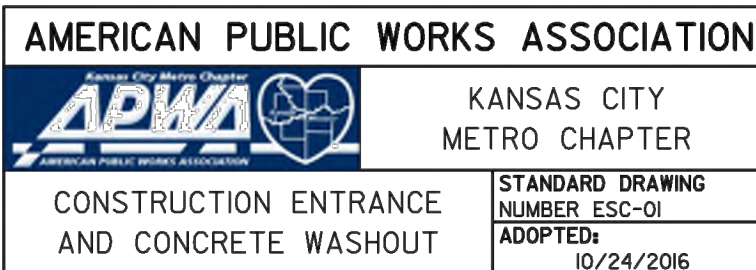
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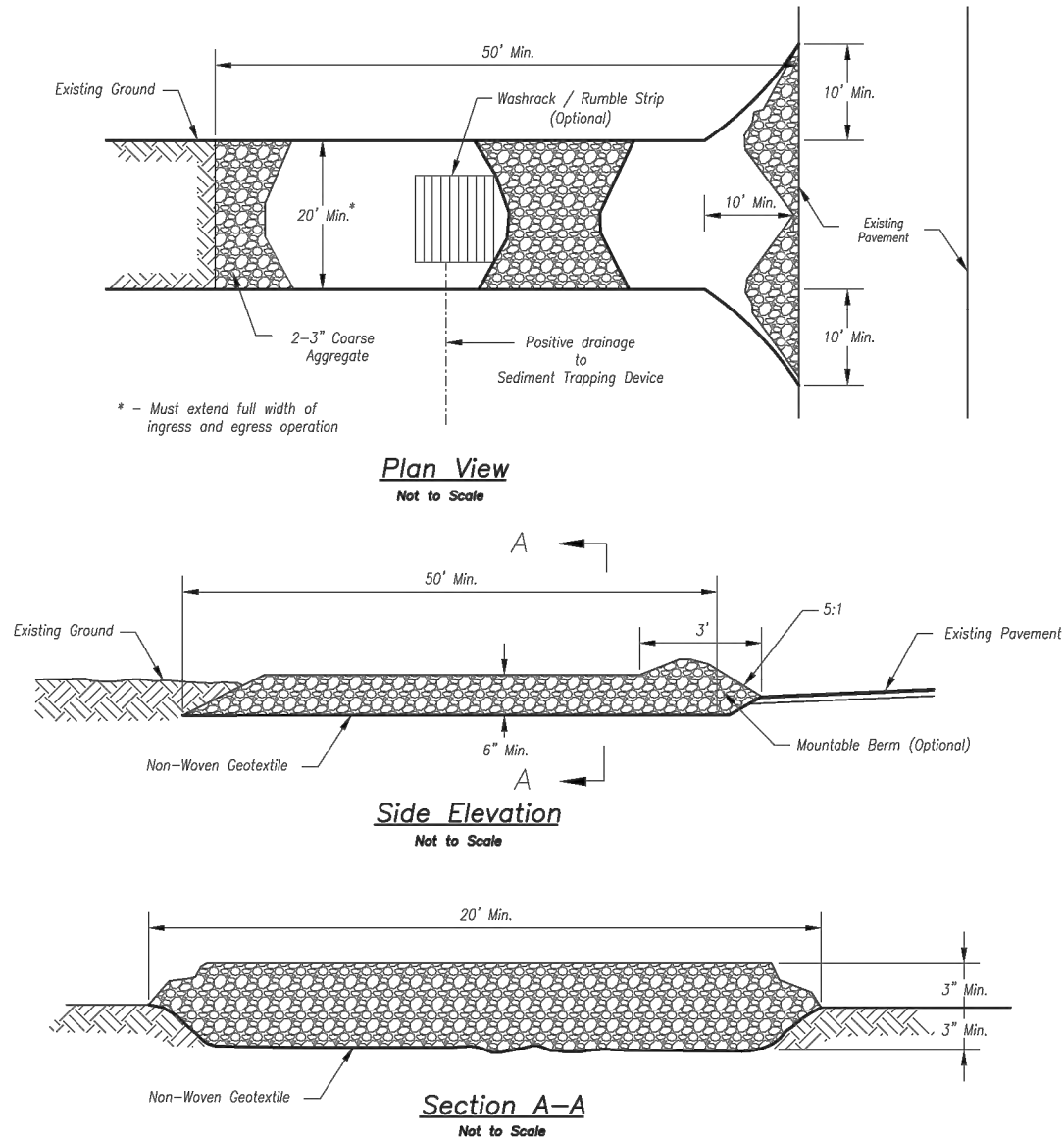
Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.



**CONCRETE WASHOUT**



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

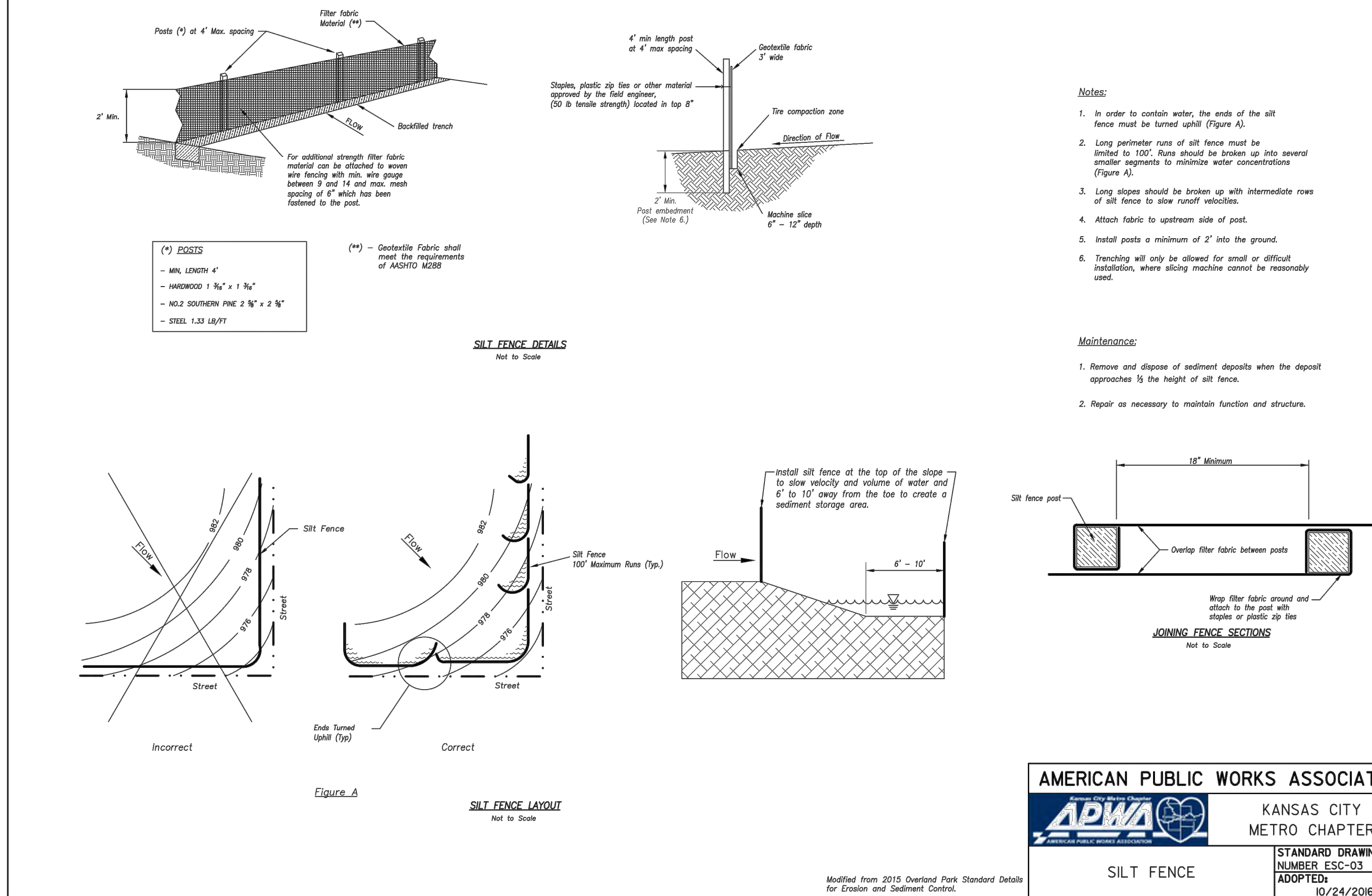


**Notes for Concrete Washout:**

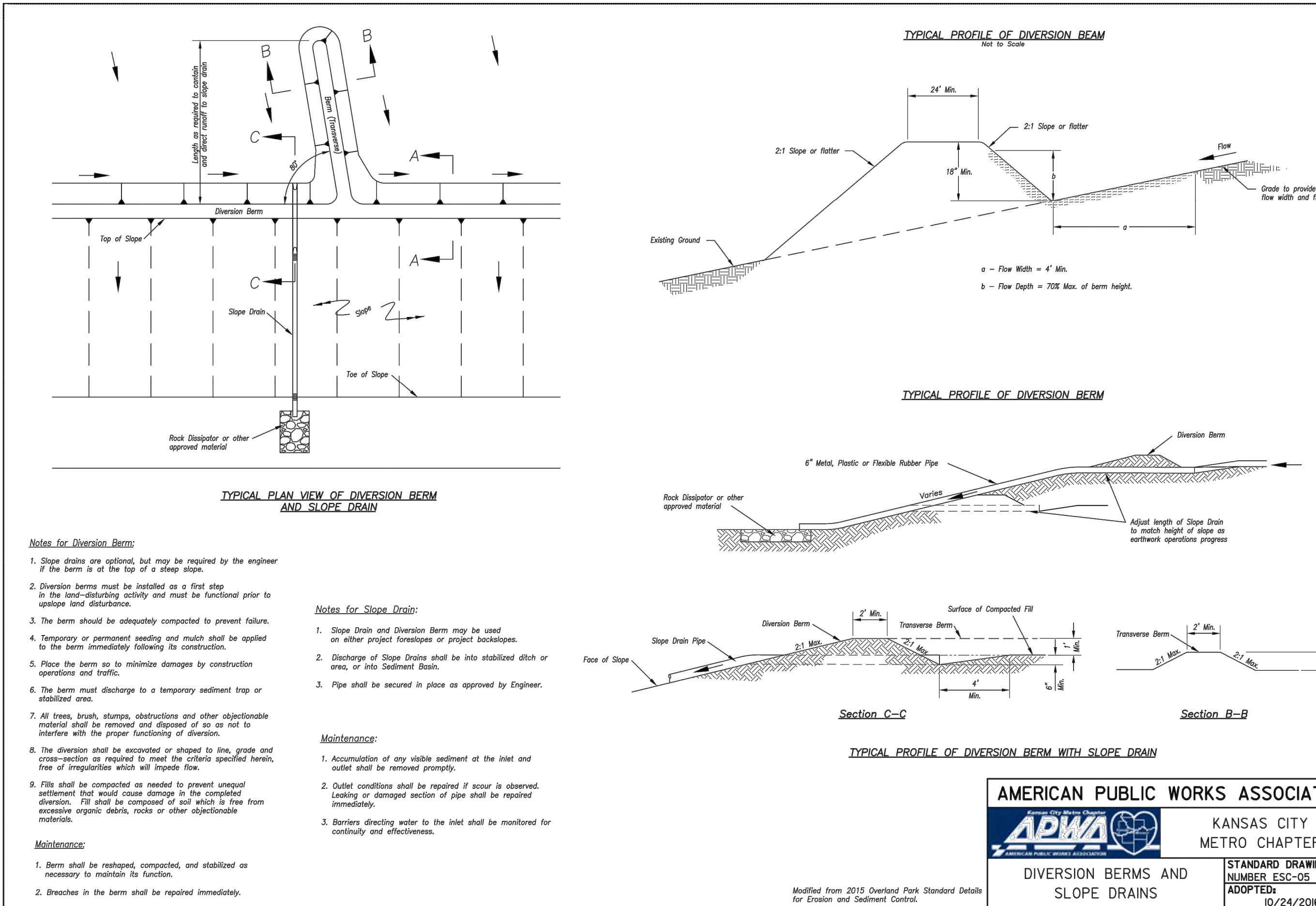
- Concrete washout areas shall be installed prior to any concrete placement on site.
- Concrete washout area shall include a flat subsurface pit sized relative to the amount of concrete to be placed on site. The slope leading out of the subsurface pit shall be 3:1. The vehicle tracking and shall be sloped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

**Maintenance for Concrete Washout:**

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



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



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

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STATE OF MISSOURI  
Professional Engineer  
No. 15-22  
2-15-22

BY: MSO

REVISIONS

2022

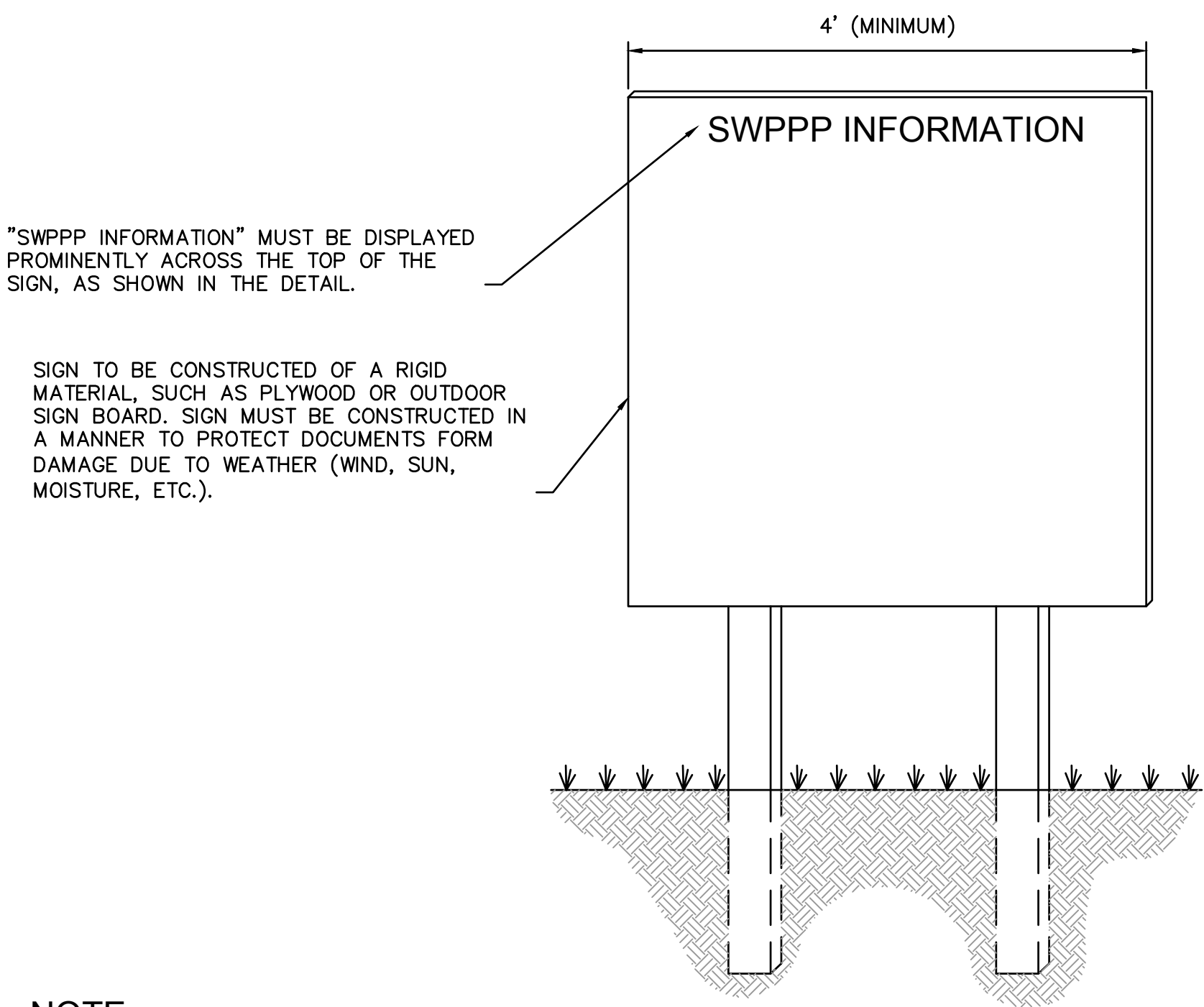
STANDARD DETAILS  
LAND DISTURBANCE PLANS

CHURCH AT WARD RD, LLC.  
1251 NW WARD ROAD

LEE'S SUMMIT, MO

drawn by: HL  
checked by: MO  
approved by: BL  
QA/QC by: MAP  
project no.: 021-05070  
drawing no.: C-DTL01\_02105070  
date: 2022.02.15

SHEET  
LD.5.0



NOTE:

1. THE SWPPP INFORMATION SIGN MUST BE LOCATED NEAR THE ENTRANCE OF SITE, SUCH THAT IT IS ACCESSIBLE AND VIEWABLE BY THE GENERAL PUBLIC, BUT NOT OBSTRUCTING VIEW AS TO CAUSE A SAFETY HAZARD.
2. ALL POSTED DOCUMENTS REQUIRED BY THE DEPARTMENT OF NATURAL RESOURCES MUST BE MAINTAINED IN A CLEARLY READABLE CONDITION AT ALL TIMES THROUGHOUT CONSTRUCTION AND UNTIL THE NOTICE-OF-TERMINATION (NOT) IS FILED FOR THE PERMIT.
3. CONTRACTOR SHALL POST OTHER STORMWATER AND/OR EROSION CONTROL RELATED PERMITS ON THE SIGN AS REQUIRED BY THE GOVERNING AGENCY.
4. SIGN SHALL BE LOCATED OUTSIDE PUBLIC RIGHT-OF-WAY AND EASEMENTS UNLESS APPROVED BY THE GOVERNING AGENCY.
5. CONTRACTOR IS RESPONSIBLE FOR ENSURING STABILITY OF THE SWPPP INFORMATION SIGN.

SWPPP INFORMATION SIGN  
NOT TO SCALE

