WATER MAIN PLANS Sheet FOR S S WHISPERING WOOD 2ND PLAT **CITY OF LEE'S SUMMIT** JACKSON COUNTY, MISSOURI LEGAL DESCRIPTION INDEX TO SHEETS PROPERTY DESCRIPTION-WHISPERING WOODS SECOND PLAT TITLE SHEET SHAWN DUKE - ENGINEER CONTAINING 248,599 SQUARE FEET OR 5.71 ACRES MO PE#2013006489 GENERAL NOTES UNITY PART OF THE SOUTHWEST QUARTER OF SECTION 24. TOWNSHIP 47 NORTH GENERAL LAYOUT AGE 2 RANGE 32 WEST, LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, BEING WATER MAIN PLAN AND PROFILE 1 DESCRIBED AS FOLLOWS: COMMENCING AT THE SOUTHEAST CORNER OF THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SAID SECTION 24; THENCE N87'38'05"W, ALONG THE SOUTH LINE OF THE NORTH HALF OF 5-6 DETAILS SUMMIT. SAID SOUTHWEST QUARTER, A DISTANCE OF 572.29 FEET TO THE POINT OF BEGINNING OF THE TRACT OF LAND TO BE HEREIN DESCRIBED; THENCE 0 PROJECT LOCATION N87°38'05"W. CONTINUING ALONG SAID LINE. A DISTANCE OF 819.48 FEET TO THE SOUTHEAST CORNER OF TRACT D, WHISPERING WOODS FIRST PLAT, A SUBDIVISION IN SAID LEE'S SUMMIT, JACKSON COUNTY, MISSOURI; THENCE С. ЦЦ 802 ST. N02°21'55"E, ALONG THE EASTERLY LINE OF SAID PLAT OF WHISPERING WOODS FIRST PLAT, A DISTANCE OF 180.00 FEET; THENCE N87°38'05"W, 0 CONTINUING ALONG SAID LINE, A DISTANCE OF 11 45 FEFT: THENCE - O NO2"21'55"E, CONTINUING ALONG SAID LINE, A DISTANCE OF 120.00 FEET TO THE NORTHEAST CORNER OF LOT 28, SAID PLAT OF WHISPERING WOODS R RD LEE'S 0 FIRST PLAT; THENCE S87*38'05"E, A DISTANCE OF 677.89 FEET; THENCE S02°31'15"W, A DISTANCE OF 21.63 FEET; THENCE S87*40'43"E, A DISTANCE SUMMIT OF 202.02 FEET: THENCE S02°19'17"W. A DISTANCE OF 73.39 FEET: THENCE SOUTHWESTERLY, ALONG A CURVE TO THE RIGHT BEING TANGENT TO THE LAST DESCRIBED COURSE, HAVING A RADIUS OF 25.00 FEET, AN ARC DISTANCE OF 39.27 FEET; THENCE N87°40'43"W, A DISTANCE OF 24.00 FEET THENCE S02°21'55"W, A DISTANCE OF 180.09 FEET TO THE POINT OF PLA7 ဟ ш BEGINNING GREENWOOD 2ND ◄ ວ PROJECT BENCH MARK WOODS : PLANS ELEV. 1006.89 (NAVD 1988 DATUM) Ο LOCATION MAI N.T.S. ပ MISSOURI DEPARTMENT OF NATURAL RESOURCES GRS ALUMINUM DISK STAMPED "JA-47" LOCATED NEAR THE S INTERSECTION OF HWY 150 WITH REGGATA DRIVE AND HWY 291 SUMMARY OF QUANTITIES **ح** 1 ITEM UNIT PLAN AS-BUILT ΰz లర 8" C900 PVC LF 993 MAI 8" Gate Valve EA 2 ≃₌ 6" Gate Valve EA 3 ш° 8"X8"X8" TEE EA ш 1 ш Ľ APPROVED: ۵ű 8"X8"X6" TEE FA 3 ۵ ш ď 6" 90° Bend EA 3 ω Γ ш 8" Plug EA 2 王 -AV Z Fire Hydrant Assembly EA City Engineer Date 3 UTILITY SERVICE NUMBERS ≥ S Connect to Existing EA 1 EVERGIT SPIRE GAS LEE'S SUMMIT PUBLIC WORKS CITY PLANNING & DEVELOPMENT FIRE DEPARTMENT Utility Marker Tape LF 993 Tracer Wire LF 993 SCHERER ROAD Summary of Quantities as indicated above and any quantities as shown within the plans have been NE 1/4 NW 1/4 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 CALL OR CLICK BEFORE YOU DIG DEVELOPER: independently evaluated by the estimating party based upon the contents of these plans. 1-800-DIG-RITE or 811 CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES SNYDER PROJECT WHISPERING WOODS LAND, L.L.C. 800.344.7483 LOCATION SE 1/4 & ASSOCIATES 803 P.C.A. ROAD LEE'S SUMMIT, MISSOURI WARRENSBURG, MO 64093 HOOK ROAD MISSOUR AGENT: RICK FRYE 12/16/2020 VICINITY MAP PHONE: 816.564.2230 Project No: 120.0484.11 FAX: 660.429.1801 mo1call.com N.T.S. Sheet

PROJECT NOTES:

- THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO ALL APPLICABLE STANDARDS AND SPECIFICATIONS OF THE CURRENT VERSION OF THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL.
- ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE ENGINEERING DEPARTMENT OF THE CITY OF LEES SUMMIT, MISSOURI.
- LINEAL FOOT MEASUREMENTS SHOWN ON THESE PLANS ARE HORIZONTAL MEASUREMENTS, NOT SLOPE MEASUREMENTS. ALL PAYMENTS SHALL BE MADE ON HORIZONTAL MEASUREMENTS.
- 4. NO GEOLOGICAL INVESTIGATION WAS PERFORMED ON THIS PROJECT
- THE UTILITY LOCATIONS SHOWN ON THESE PLANS ARE TAKEN FROM UTILITY THE UTILITY LOCATIONS SHOWN ON THESE PLANS ARE TARGET FROM OTHER COMPANY RECORDS AND ARE APPROXIMATE ONLY. THEY DO NOT CONSTITU ACTUAL FIELD LOCATIONS. THE CONTRACTOR SHALL VERIFY THE LOCATION TH OF ALL UTILITIES PRIOR TO CONSTRUCTION
- CLEARING AND GRUBBING OPERATIONS AND DISPOSAL OF ALL DEBRIS THEREFROM SHALL BE PERFORMED BY THE CONTRACTOR IN STRICT ACCORDANCE WITH ALL STATE AND LOCAL CODES AND ORDINANCES.
- ALL WASTE MATERIAL SHALL BE DISPOSED OF AT A LOCATION TO BE SELECTED BY THE OWNER OR HIS AUTHORIZED REPRESENTATIVE, SUCH LOCATION TO BE ON THE SITE
- THE CONTRACTOR SHALL CONTROL THE EROSION AND SILTATION DURING ALL PHASES OF CONSTRUCTION, HE SHALL KEEP THE STREETS CLEAN OF MUD AND DEBRIS AND FOLLOW THE EROSION CONTROL PLAN PREPARED BY THE DESIGN ENGINEER.
- ALL MANHOLES, CATCH BASINS, UTILITY VALVES AND METER PITS TO BE ADJUSTED OR REBUILT TO GRADE AS REQUIRED.
- 10 SUBGRADE SOIL FOR ALL CONCRETE STRUCTURES, REGARDLESS OF THE TYPE SUBGRADE SOL FOR ALL CONCRETE STRUCTURES, RECARDLESS OF THE TYPE OR LOCATION, SHALL BE FREE FRCM MUCK AND MUL, AND SHALL BE CONSOLIDATED. SHALL BE FREE FRCM MUCK AND MUL, AND SHALL BE UNDER SHALL BE FREE FRCM MUCK AND MUL, AND SHALL BE THE WORKMAN OR MORTINES (STANDARDE IN SUBGRADE LAYING BEINFORCING STEEL AND DEPOSITING CONCRETE THEREIN. IN ALL CASES WHERE SUBSOLI IS MUCKY OR WORKS INTO MUD OR MUCK DURING SUCH OFERATION. A SEAL COURSE OF EITHER CONCRETE OR ROCK SHALL BE PLACED BELOW SUBGRADE O PROVIDES A FIRM BASE FOR WORKING AND FOR PLACING THE FLOOR SLAG.
- 11. A MINIMUM OF TEN FEET (10') SHALL BE MAINTAINED BETWEEN PARALLEL A MINIMUM OF TEN FEET (10) SHALL BE MANITAINED BETWEEN PARALLEL WATTER AND SANTTARY SEWER I UNES, SAT ANY PONT WHERE SANTARY SEWER LINES GROSS THE WATER MARI, THE SANTTARY SEWER SHALL BE ENCASED IN CONCRETE FOR A DISTANCE OF TEN FEET (10) IN EACH DIRECTION FROM THE CROSSING UNLESS THE WATER MAIN IS A MINIMUM OF EIGHTEEN INCHES (18') ASOVE THE TOP OF THE SANTTARY SEWER LINE.
- 12 CONTRACTOR SHALL PROVIDE TESTING AND INSPECTION PER SECTION 3900-WATER MAINS CITY OF LEE'S SUMMIT, MISSOURI STANDARD SPECIFICATIONS
- 13. DUCTILE IRON PIPE SHALL WRAPPED WITH POLYWRAP.
- 14. CONTRACTOR IS RESPONSIBLE FOR ALL TESTING RELATED TO THE WATER MAIN INSTALLATION AND ACCEPTANCE PER CITY SPECIFICATIONS.
- ALL UTILITY STREET CROSSINGS SHALL BE BACKFILLED WITH FLOWABLE FILL, OR AB-3.
- 16. MINIMUM DEPTH OF COVER OVER WATERLINE SHALL BE 42 INCHES MAXIMUM DEPTH OF COVER SHALL BE SEVEN FEET (7').
- 17 SITE TOPOGRAPHY TAKEN FROM SURVEY COMPLETED BY REBUEORD AND ASSOCIATES. CONTRACTOR TO VERIFY EXISTING CONDITIONS OF THE SITE THAT MAY NOT BE REPRESENTATIVE OF CONSTRUCTION PLANS.

EROSION CONTROL NOTES:

A MISSOURI STATE OPERATING PERMIT FOR STORM WATER DISCHARGE IS REQUIRED IF CONSTRUCTION ACTIVITY DISTURBS ONE ACRE OR MORE IN ACCORDANCE WITH THE MISSOURI DEPARTMENT OF INTURAL RESOURCES' REGULATION (0.587 204-200). COMPLANCE WITH THE STORMWATER POLUTION PREVENTION PLANT IS REQUIRED IN THIS INSTANCE. A CONSTRUCTION PERMIT FOR LAND DISTURBANCE WILL BE SECURED FROM THE MISSOURI DEPARTMENT OF INATURAL RESOURCES AND PROVIDED TO THE CONTRACTOR.

SLOPES ARE TO BE LEFT IN A ROUGHENED CONDITION DURING GRADING

CURB INLET SEDIMENTATION FILTERS ARE TO BE INSTALLED AROUND CURB INLETS WHERE SEDIMENTATION IS A CONCERN. (SEE SWPP FOR DETAILS)

INLET PROTECTION SHALL BE INSTALLED IMMEDIATELY FOLLOWING INSTALLATION OF STORM INLETS & REMAIN IN PLACE UNTIL GROUND COVER HAS BEEN ESTABLISHED

EROSION CONTROL MEASURES SHALL BE CONSTRUCTED PRIOR TO BEGINNING GRADING OPERATIONS WHERE POSSIBLE. ALL REMAINING EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IMMEDIATELY FOLLOWING GRADING ALL REMAININ

THE SITE IS TO BE SEEDED AND MULCHED AND TEMPORARY EROSION CONTROL MEASURES ARE TO REMAIN IN PLACE UNTIL GROUND COVER HAS BEEN ESTABLISHED.

SEDIMENT IS TO BE REMOVED FROM STORM WATER DRAINAGE SYSTEMS INCLUDING THE DETENTION BASIN

BOCK UNING IS TO BE INSTALLED AT AREAS OF CONCENTRATED FLOW (LE. CULVERT OUTLETS).

ROCK LINING SHALL BE TYPE 2 ROCK DITCH LINER ACCORDING TO MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION SEC. 609.60. ALL NECESSARY STEPS SHALL BE TAKEN TO PREVENT SEDIMENT AND SOL ENGION FROM BEING TRANSPORTED ONTO ADJACENT PROPERTY AND INTO STREAMS, LAKES, PONDS, OR CTHER AREAS.

CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. ANY REQUIRED REPAIRS SHOULD BE MADE IMMEDIATELY

ADDITIONAL EROSION CONTROL MEASURES MAY BE NEEDED IF UNFORESEEN EROSION PROBLEMS ARISE OR IF THE SUBMITTED PLAN DOES NOT FUNCTION AS INTENDED

EROSION PROTECTION

1. CODE COMPLIANCE: THE CONTRACTOR SHALL COMPLY WITH SOIL EROSION CONTROL REQUIREMENTS OF THE MISSOURI CODE. THE MISSOURI DEPARTMENT OF NATURAL RESOURCES INPOSE PERMIT, AND LOCAL ORDINANCE: THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASUREMENTS TO PROTECT AGAINST EROSION AND DUST POLLUTION ON THIS PROJECT SITE AND ALL OFF-SITE BORROW OR DEPOSIT AREAS DURING PERFORMANCE OR AS A RESULT OF PERFORMANCE

2 DAMAGE CLAIMS: THE CONTRACTOR WILL HOLD THE OWNER, ARCHITECT AND ENGINEER HARMLESS FROM ANY AND 2. DAMAGE CLAMS: THE CONTRACTOR WILL HOLD THE OWNER, ARCHITECT AND ENGINEER HARMLESS FROM ANY AN ALL CLAIMS OF ANY TYPE WHRSDEVER RESULTING FROM DAMAGEST O ADJOINNO PUBLIC OR PRIVATE PROPERTY, INCLUDING REASONABLE ATTORNEY FEES INCURRED TO OWNER. FURTHER, IF THE CONTRACTOR FALLS TO TAKE INCLUSATED TO OWNER. FURTHER, IF THE CONTRACTOR FALLS TO TAKE INCLUSATED TO OWNER. FURTHER, IF THE CONTRACTOR FALLS TO TAKE AND ADJOINNO FUELD OR PRIVATE ROOPERTY, THE OWNER MAY, BUT MEED NOT, REMOVE SUCH TEMS AND DEDUCT THE COST THEREOF FROM ANALOUNTS DUE TO THE CONTRACTOR.

3. ALL AREAS DISTURBED BY CONSTRUCTION ON THIS PROJECT WILL BE SUBJECT TO CURRENT REGULATORY REQUIREMENTS AND THESE STANDARDS.

STORM WATER DISCHARGE PERMIT

THIS PROJECT REQUIRES A LAND DISTURBANCE PERMIT FROM THE MISSOURI DEPARTMENT OF NATURAL RESOURCES, AS REQUIRED BY THE ENVIRONMENTAL PROTECTION COMMISSION (EPC). THE OWNER SHALL OBTAIN THE PERMIT. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COMPLIANCE AND FULFILLING ALL REQUIREMENTS OF THE PERMIT INCLUDING THE STORM WATER POLLUTION PREVENTION PLAN.

2. ALL DOCUMENTS RELATED TO THE STORM WATER DISCHARGE PERMIT SHALL BE KEPT ON SITE AT ALL TIMES AND MUST BE PRESENTED TO THE MISSOURI DNR UPON REQUEST WHICH INCLUDE THE NOTICE OF INTENT, PROOF OF PUBLICATION, POLLUTION PREVENTION PLAN, PROJECT INSPECTION DIARY, AND OTHER ITEMS. FALURE TO COMPU-WITH THE DISAFARGE REQUIREMENTS IS IN VIOLATION OF THE CLEAN WATER ACT AND THE CODE OF MISSOURI.

LIPON FINAL STABILIZATION OF THE DISTURBED AREA. ANOTHEE OF DISCONTINUATION" MUST BE FILED BY THE OWNER WITH THE MISSOURI DWI. ALL FLANS. INSPECTION REPORTS, AND OTHER DOCUMENTS MUST BE RETAINED FOR A PERIOD OF THREE YEARS AFTER PROJECT COMPLETION. THE CONTRACTOR SHALL BETAIN RECORD COPY AND PROVIDE CRIGINAL DOCUMENTS TO THE OWNER DWIN SUBJACE OF THE MOTICS OF DISCONTINUATION.

POLLUTION PREVENTION PLAN:

SITE DESCRIPTION: THIS PROJECT IS FOR THE CONSTRUCTION OF ROUGH GRADING FOR COMMERCIAL DEVELOPMENT, THE ENTIRE PROJECT COVERS APPROXIMATELY 1.70 ACRES. THE ESTIMATED AVERAGE RUNOFF COEFFICIENT WILL BE 0.80 RUNOFF FROM THIS PROJECT SITE AND WILL BE ROUTED THROUGH THE EXISTING CITY STORM

2. POTENTIAL SOURCES OF POLLUTION FOR THIS PROJECT RELATE TO SILTS, SEDIMENT, AND OTHER MATERIALS WHICH MAY BE TRANSPORTED FROM THE CONSTRUCTION SITE AS THE RESULT OF A STORM EVENT .

3. RESPONSIBILITY: THIS POLLUTION PREVENTION PLAN ILLUSTRATES GENERAL MEASURES TO BE TAKEN FOR COMPLIANCE WITH THE PERMIT. ALL MITIGATION MEASURES REQUIRED, AS A RESULT OF ACTIVITIES, ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL ACTIONS NECESSARY FOR INSTALLATION OF CONTROL MEASURES FOR COMPLIANCE WITH PERMIT REQUIREMENTS.

CONTROLS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE AND FULFILLING ALL THE REQUIREMENTS OF THE GENERAL PERMIT INCLUDING. BUT NOT LIMITED TO, THE FOLLOWING:

a. THE CONTRACTOR SHALL PROTECT ADJOINING PROPERTY INCLUDING PUBLIC UTILITIES, SANITARY AND STORM DRAINAGE SYSTEMS, AND STREETS FROM ANY DAMAGE RESULTING FROM MOVEMENT OF EARTH OR OTHER DEBRIS FROM PROJECT SITE. REPAR ANY DAMAGE INMEDIATELY AT NO ADDITIONAL COST.

b. THE CONTRACTOR SHALL PREVENT ACCUMULATION OF EARTH, SILTATION, OR DEBRIS ON ADJOINING PUBLIC OR PRIVATE PROPERTY FROM PROJECT SITE. REMOVE ANY ACCUMULATION OF EARTH OR DEBRIS IMMEDIATELY AND TAKE REMEDIAL ACTIONS FOR PREVENTION

C PRIOR TO SITE CLEARING AND GRADING OPERATIONS. CONTRACTOR SHALL INSTALL SITE FENCE ALONG THE B OF THE PROJECT DOWNSTREAM OF DISTURBING ACTIVITIES AS REQUIRED AND AS SHOWN PLANS

d. THE CONTRACTOR SHALL PRESERVE EXISTING VEGETATION IN AREAS NOT NEEDED FOR CONSTRUCTION



CONSTRUCTION

12/16/2020

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SHAWN DUKE - ENGINEER

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