

LAND OF LAKES WATER LINE REPLACEMENT
LOCATED IN LEXINGTON, SC

PREPARED FOR
JOINT MUNICIPAL WATER & SEWER COMMISSION

PREPARED BY

4DENGINEERING

APPLICANT CERTIFICATION

I (WE) HEREBY CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION, AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND I (WE) ARE RESPONSIBLE FOR THE LAND DISTURBANCE AND RELATED MAINTENANCE THEREOF. LEXINGTON COUNTY AND SCDES AUTHORITIES WILL BE ALLOWED TO ENTER THE PROJECT SITE FOR THE PURPOSES OF ON-SITE INSPECTIONS.

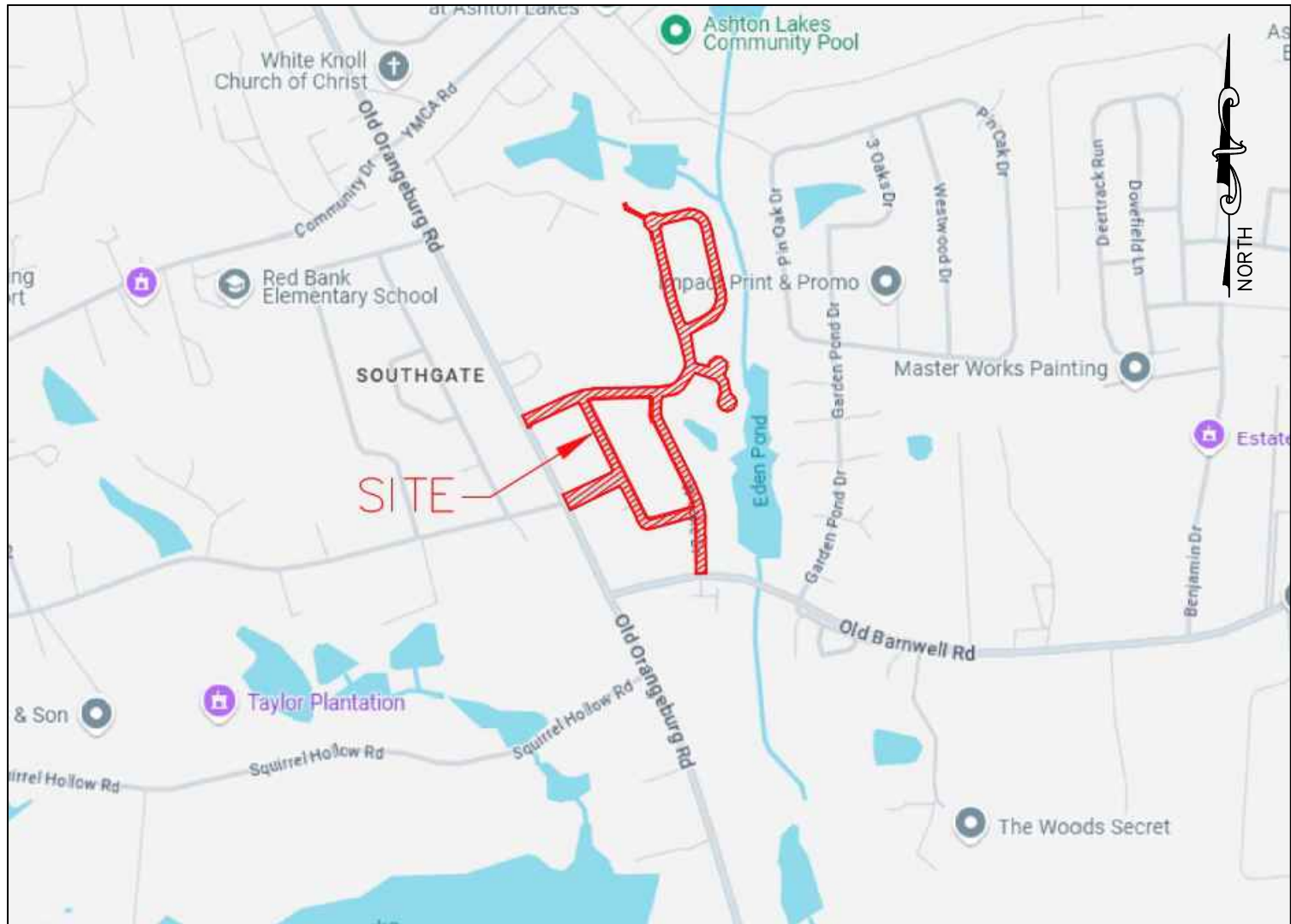
7/21/25
DATE OWNER/PERSON FINANCIALLY RESPONSIBLE

DESIGNER CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN IS DESIGNED TO CONTAIN SOIL ON THE PROPERTY CONCERNED TO THE MAXIMUM EXTENT, TO PROVIDE FOR THE PROTECTION OF THE PROPERTY AND THE PROPOSED IMPROVEMENTS THEREON FROM THE EFFECTS OF FLOODING, TO PROVIDE FOR THE CONTROL OF THE RUNOFF FROM THE PROPERTY, AND THAT ALL THE PROVISIONS FOR SEDIMENT CONTROL AND STORM DRAINAGE ARE IN ACCORDANCE WITH THE STORMWATER MANAGEMENT AND SEDIMENT CONTROL ORDINANCE FOR LEXINGTON COUNTY AND SCDES.

7/21/25
DATE DESIGNER'S SIGNATURE AND CERTIFICATION

LOCATION MAP



SCALE: 1"=1,000'

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Professional Engineer Seal for Justin P. Wainwright, No. 28702, State of South Carolina. Includes a signature.

REVISIONS		
#	DESCRIPTION	DATE
1	ISSUED FOR BID	08/11/25
2	REVISED PER LEXINGTON COUNTY COMMENTS	09/02/25

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PROJECT
LAND OF LAKES WATER LINE
REPLACEMENT
IN
LEXINGTON, SC

SCALE: NTS
PROJ NO: 24068
C0
JULY 31, 2025

3 DAYS BEFORE DIGGING IN
SOUTH CAROLINA
CALL 1-888-721-7877
Palmetto Utility Protection Service

OWNER/DEVELOPER:
JOINT MUNICIPAL WATER & SEWER COMMISSION
2546 TWO NOTCH ROAD
LEXINGTON, SC 29072
(803) 785-3234
GSCHMOLTZE@LCJMWSC.COM

ENGINEER:
4D ENGINEERING
603 S LAKE DRIVE
LEXINGTON, SC 29072
(803) 356-0909
JUSTIN@4DENGRCOM

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REFERENCES:

- TOPOGRAPHIC SURVEY PERFORMED BY GEL ENGINEERING, LLC. PROVIDED TO 4D ENGINEERING IN DIGITAL FORMAT ON FEBRUARY 14, 2025.
- ELEVATIONS SHOWN ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND HORIZONTAL COORDINATES ARE BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD83).

GENERAL NOTES:

- SOME UTILITIES MAY EXIST AT THE SITE THAT WERE NOT ABLE TO BE LOCATED BY TYPICAL SURVEY METHODS. CALL PALMETTO UTILITY PROTECTION SERVICE, AT (888) 721-7877, FOR ALL UNDERGROUND UTILITY LOCATIONS AT LEAST 72 HOURS PRIOR TO EXCAVATION.
- VERIFY ALL FIELD CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER IF ANY DIFFERING SITE CONDITIONS ARE NOTED.
- REPAIR ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES AT NO ADDITIONAL COST TO THE OWNER.
- REMOVE ALL DEBRIS AND OTHER MATERIALS RESULTING FROM DEMOLITION AND DISPOSE OF OFF SITE UNLESS OTHERWISE DIRECTED BY OWNER.
- PROVIDE TRAFFIC CONTROL AS REQUIRED FOR CONSTRUCTION OF THE PROJECT IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND THE APPROVED ENCROACHMENT PERMIT.
- ENSURE ALL-WEATHER ACCESS TO LOCAL RESIDENCES IS MAINTAINED THROUGHOUT CONSTRUCTION.
- RESTORE ALL WORK AREAS TO EXISTING CONDITIONS OR BETTER.

SITE INFORMATION:

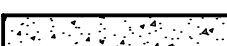
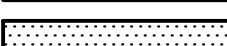
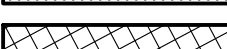
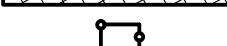
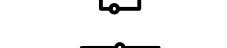
- DISTURBED AREA IS 1.10 ACRES

FLOOD CERTIFICATION

I HEREBY CERTIFY THAT I HAVE CONSULTED THE NATIONAL FLOOD INSURANCE PROGRAM, "FLOOD INSURANCE RATE MAP", MAP NUMBER 45063C0253J, PANEL NUMBER 253 OF 555, EFFECTIVE DATE: JULY 5, 2018 AND MAP NUMBER 45063C0261J, PANEL NUMBER 261 OF 555, EFFECTIVE DATE: JULY 5, 2018. I HAVE DETERMINED THAT THE ABOVE SITE LIES WITHIN AN UNSHADED ZONE "X."

Justin P. Waring
JUSTIN P. WARING, P.E.
SC PROFESSIONAL ENGINEER #28702

LEGEND

EXISTING	PROPOSED	
		WATER MAIN
		GATE VALVE
	N/A	SEWER LINE
	N/A	STORM LINE
	N/A	UNDERGROUND TELEPHONE
	N/A	GAS LINE
	N/A	PROPERTY LINE
	N/A	CURB LINE
		CONCRETE DRIVEWAY PAVEMENT SECTION
N/A		ASPHALT ROADWAY PAVEMENT SECTION
N/A		ASPHALT DRIVEWAY PAVEMENT SECTION
N/A		MILL AND OVERLAY
N/A		INLET PROTECTION
N/A		CONCRETE WASHOUT
N/A		LIMITS OF DISTURBANCE

SEQUENCE OF CONSTRUCTION

- RECEIVE NPDES PERMIT APPROVAL FROM LEXINGTON COUNTY & SCDES. (WEEK 1)
- HOLD ONSITE PRE-CONSTRUCTION MEETING WITH ENGINEER, CONTRACTOR, LEXINGTON COUNTY, AND JMWSC REPRESENTATIVES. PROVIDE AT LEAST 48 HOURS NOTICE PRIOR TO LAND DISTURBANCE ACTIVITIES. (WEEK 1)
- CONDUCT ANY INITIAL CLEARING AND UTILITY RELOCATIONS AS REQUIRED PRIOR TO WATER LINE INSTALLATION. PERFORM THIS WORK IN COORDINATION WITH JMWSC. (WEEKS 2 -4)
- INSTALL INLET PROTECTION AS REQUIRED. BEGIN WEEKLY SWPPP INSPECTIONS UNTIL THE SITE IS FULLY STABILIZED. (WEEKS 2-4)
- NOTIFY COUNTY PERSONNEL FOR INSPECTION OF EROSION CONTROL MEASURES. (WEEK 4)
- SAWCUT AND REMOVE EXISTING CURB AND PAVEMENT AS REQUIRED FOR WATER LINE INSTALLATION IN SEQUENCE WITH WATER LINE INSTALLATION. (WEEKS 5-30)
- INSTALL WATER MAIN LINES, BACKFILLING AND REPLACING EXISTING CURB AND PAVEMENT AS SOON AS POSSIBLE AFTER WATER LINE INSTALLATION. VALVES AND HYDRANTS AND WATER SERVICES WILL BE INSTALLED ALONG WITH WATER MAINS AS NEEDED. CONTRACTOR TO MAINTAIN SEDIMENT AND EROSION CONTROL MEASURES AS NEEDED THROUGHOUT CONSTRUCTION. (WEEK 5-30)
- AFTER WATER MAIN INSTALLATION IS COMPLETE, ALL WATER PIPING, VALVES, FIRE HYDRANTS, AND FITTINGS SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH JMWSC REQUIREMENTS. SEE SPECIFICATION SECTION 33 11 00. (WEEKS 31-32)
- AFTER SUCCESSFUL HYDROSTATIC TESTING, THE WATER MAIN SHALL BE FLUSHED AND DISINFECTED IN ACCORDANCE WITH JMWSC REQUIREMENTS. SEE SPECIFICATION SECTION 33 11 00. (WEEK 33)
- OBTAIN PERMIT TO OPERATE FROM SCDES (BY ENGINEER). (WEEK 33)
- AFTER TESTING IS COMPLETE AND PERMIT TO OPERATE IS OBTAINED, CONTRACTOR SHALL FIELD VERIFY METER LOCATIONS AND CONNECT WATER SERVICES TO EXISTING METERS OR RELOCATED METERS. (WEEK 34)
- AFTER ALL METER CONNECTIONS ARE COMPLETE, THE CONTRACTOR SHALL CUT & CAP THE EXISTING WATER LINES AS SHOWN TO BE ABANDONED. REMOVE EXISTING VALVE BOXES ON VALVES THAT ARE ABANDONED. REMOVE ABANDONED FIRE HYDRANTS AND RETURN TO JMWSC. (WEEK 35)
- UPON COMPLETE STABILIZATION OF THE SITE, REMOVE ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES. (WEEK 35)
- PERFORM AS BUILT SURVEY OF WATER LINES, VALVES, HYDRANTS AND ANY OTHER RELOCATED UTILITIES. (WEEK 35)
- SUBMIT NOTICE OF TERMINATION (NOT) TO LEXINGTON COUNTY AND SCHEDULE FINAL INSPECTION BY LEXINGTON COUNTY. ONCE COMPLETE, THE NOTICE OF TERMINATION SHALL BE SUBMITTED TO SCDES AS APPROPRIATE (BY ENGINEER). (WEEK 36)

STABILIZATION NOTES:

- ALL DISTURBED AREAS SHALL BE GRASSED IMMEDIATELY UPON COMPLETION OF GRADING OPERATIONS.
- TEMPORARY STABILIZATION SHALL BE UTILIZED FROM NOVEMBER THROUGH FEBRUARY, BUT PERMANENT STABILIZATION IS REQUIRED IN ALL AREAS BEFORE PROJECT COMPLETION.
- STABILIZATION OF CONVEYANCE CHANNELS IS TO BE COMPLETED WITHIN 7 DAYS OF CHANNEL CONSTRUCTION AND SHALL BE DOUBLE SEEDED.
- ALL DITCHES, SWALES, AND SLOPES SHALL BE DOUBLE SEEDED AND COVERED WITH STRAW OR EROSION CONTROL MATTING TO PROMOTE RAPID STABILIZATION.

GRASSING SCHEDULE

	PERMANENT	STABILIZATION: (LBS PER 1000 SQ FT)
	0.5	RYE GRASS
	1.5	COMMON BERMUDA (HULLED)
	25	10-10-10 FERTILIZER
	75	AGRICULTURAL LIME (MAY BE REDUCED IF APPLIED DURING PREVIOUS TEMPORARY STABILIZATION EFFORTS)
	TEMPORARY	STABILIZATION: (LBS PER 1000 SQ FT)
	2	RYE GRASS
	1	COMMON BERMUDA (HULLED)
	1	COMMON BERMUDA (UNHULLED)
	25	10-10-10 FERTILIZER
	75	AGRICULTURAL LIME

SCDES STANDARD SEDIMENT & EROSION CONTROL NOTES:

- IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
- STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.
 - WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
 - WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
- ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK, WITH NO TIME PERIOD BETWEEN INSPECTIONS EXCEEDING 9 DAYS. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY OR INCORRECTLY INSTALLED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.
- PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE SEDIMENT BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.
- ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
- THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
- RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C REG. 72-300 ET SEQ. AND SCR100000.
- TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
- ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.
- LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
- A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.
- INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.
- MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
- MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.
- MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.).
- THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
 - WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL
 - WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS
 - FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE
 - SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
- AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK, WITH NO TIME PERIOD BETWEEN INSPECTIONS EXCEEDING 9 DAYS, AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.
- IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.
- A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.

ADDITIONAL SEDIMENT & EROSION CONTROL NOTES:

- INSTALL SILT BARRIERS AS SHOWN ON THESE PLAN SHEETS. SILT BARRIERS SHALL BE MAINTAINED AND KEPT IN WORKING CONDITION UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SILT FENCING SHOULD BE CLEANED OR REPLACED WHEN SILT ACCUMULATION REACHES 1/3 THE HEIGHT OF THE FENCE.
- ALL DISTURBED AREAS THAT WILL NOT BE PAVED SHALL BE GRASSED. TEMPORARY GRASSING, MULCHING, OR OTHER STRUCTURAL MEASURES MAY BE REQUIRED TO PREVENT EROSION.
- ADDITIONAL EROSION CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL CLEARED AND GRADED AREAS SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS ESTABLISHED. ANY ERODED AREAS SHALL BE REPAIRED TO THEIR ORIGINAL CONDITION AND PROTECTED FROM FURTHER EROSION AT NO ADDITIONAL COST TO THE OWNER.
- PROVIDE SILT FENCE AND/OR OTHER EROSION CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED AND STABILIZED WITH GRASSING IMMEDIATELY AFTER COMPLETION OF CONSTRUCTION IN THE AREA.
- CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO THE PAVED ROADWAY FROM CONSTRUCTION AREAS. CONTRACTOR TO DAILY REMOVE MUD/SOIL FROM PAVEMENT AS REQUIRED.
- ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED TO THE SATISFACTION OF SCDES AND LEXINGTON COUNTY.

UTILITY NOTES:

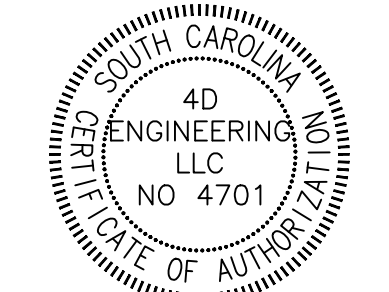
- SCHEDULE PRE-CONSTRUCTION MEETING WITH JMWSC AND PROVIDE JMWSC WITH A MINIMUM OF 48 HOURS NOTICE PRIOR TO PERFORMING ANY WORK.
- NO UTILITY CONNECTION SHALL BE MADE WITHOUT COORDINATION WITH JMWSC AND IN THE PRESENCE OF A JMWSC REPRESENTATIVE.
- ALL WORK AND MATERIALS MUST CONFORM TO CURRENT JMWSC REGULATIONS, SPECIFICATIONS, AND DETAILS UNLESS APPROVED OTHERWISE BY OWNER AND ENGINEER.
- VERIFY EXACT LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTACT THE ENGINEER IMMEDIATELY IF FIELD CONDITIONS DIFFER FROM THE PLANS.
- INSTALL TEMPORARY FENCING AROUND ALL EXCAVATED AREAS AND PROVIDE OTHER SAFETY MEASURES NEEDED.
- FIELD ADJUST CLEANOUTS, HYDRANTS, VALVES, AND APPURTENANCES TO MATCH FINISHED GRADE.
- INSTALL WATER SERVICES TO THE RIGHT-OF-WAY LIMIT, UNLESS OTHERWISE SHOWN ON THE PLANS.
- CONTRACTOR SHALL INSTALL A WATER SERVICE FOR EACH LOT REGARDLESS OF WHAT IS SHOWN ON PLANS.
- ALL WATER AND SEWER LINES MUST HAVE 10 FEET HORIZONTAL SEPARATION AND 18 INCHES VERTICAL SEPARATION.
- ALL UTILITIES THAT CROSS SEWER SHALL BE SEPARATED BY 18" OF VERTICAL SEPARATION AND THE SEWER SHALL BE INSTALLED BELOW THE OPPOSING UTILITY WHEREVER POSSIBLE.
- ALL WATER LINES SHALL HAVE A MINIMUM 36 INCHES OF COVER, UNLESS OTHERWISE NOTED ON THE PLANS.
- DEFLECTION OF WATER MAIN NOT TO EXCEED PIPE MANUFACTURER'S CRITERIA.
- RESTRAINED JOINT IS REQUIRED AT ALL WATER LINE FITTINGS AND SHALL FOLLOW JMWSC STANDARD RESTRAINED JOINT TABLE DETAIL UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- PVC WATER PIPE SHALL BE C900 DR18 BLUE INTEGRAL BELL AND SPIGOT PIPE.
- DUCTILE IRON PIPE SHALL BE PRESSURE CLASS 350. DUCTILE IRON WATER PIPE SHALL BE MECHANICAL JOINT OR PUSH-ON JOINT.
- DUCTILE IRON FITTINGS SHALL BE 250 PSI PRESSURE RATED. ALL WATER LINE FITTINGS SHALL BE DUCTILE IRON.
- RESTRAINED JOINT (RJ) FOR DUCTILE IRON MECHANICAL JOINT PIPE SHALL BE MEGALUG SERIES 1100 BY EBAA IRON, INC., OR APPROVED EQUAL. RJ FOR PVC PIPE SHALL BE SERIES 1600 BY EBAA IRON, INC., OR APPROVED EQUAL. RJ FOR BETWEEN PVC AND MECHANICAL JOINT DUCTILE IRON SHALL BE SERIES 2000 PV BY EBAA IRON, INC., OR APPROVED EQUAL.
- FIRE HYDRANTS SHALL BE AT LEAST 5' FROM THE BACK OF CURB IN ALL LOCATIONS.
- PROVIDE A MARKED UP "AS BUILT" PLAN FOR ALL WATER LINES TO THE ENGINEER PRIOR TO PROJECT COMPLETION. AT A MINIMUM, CONTRACTOR SHALL FOLLOW JMWSC RECORD DRAWING REQUIREMENTS AS DETAILED IN THE SPECIFICATIONS.
- COORDINATE UNDERGROUND ELECTRIC, GAS, CABLE, AND TELEPHONE UTILITY SERVICES WITH UTILITY SERVICE PROVIDERS.
- CONTRACTOR SHALL RECEIVE WRITTEN APPROVAL FROM OWNER PRIOR TO INSTALLING OR CONSTRUCTING ANY PORTION OF THIS WATERLINE WHICH DEVIATES FROM THE APPROVED PLANS OR MATERIAL QUANTITIES STATED. COORDINATE ANY NECESSITIES OF EXTRA MATERIAL (FITTINGS, VALVES, PIPE LENGTH, ETC.) WITH OWNER PRIOR TO PURCHASING AND INSTALLING.

4D
ENGINEERING

"SUPERIOR COMPREHENSIVE
ENGINEERING SOLUTIONS"

WWW.4DENGRCOM

CIVIL ENGINEERING



REVISIONS

#	DESCRIPTION	DATE
1	ISSUED FOR BID	08/11/25
2	REVISED PER LEXINGTON COUNTY COMMENTS	09/02/25

SHEET

NOTES

PROJECT
LAND OF LAKES WATER LINE
REPLACEMENT
IN
LEXINGTON, SC

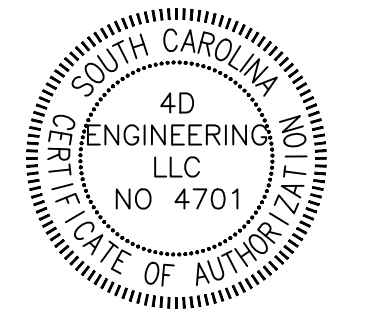
SCALE: NTS

PROJ NO: 24068

C1

JULY 31, 2025

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REVISIONS

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SHEET

OVERALL EXISTING
CONDITIONS & SHEET KEY

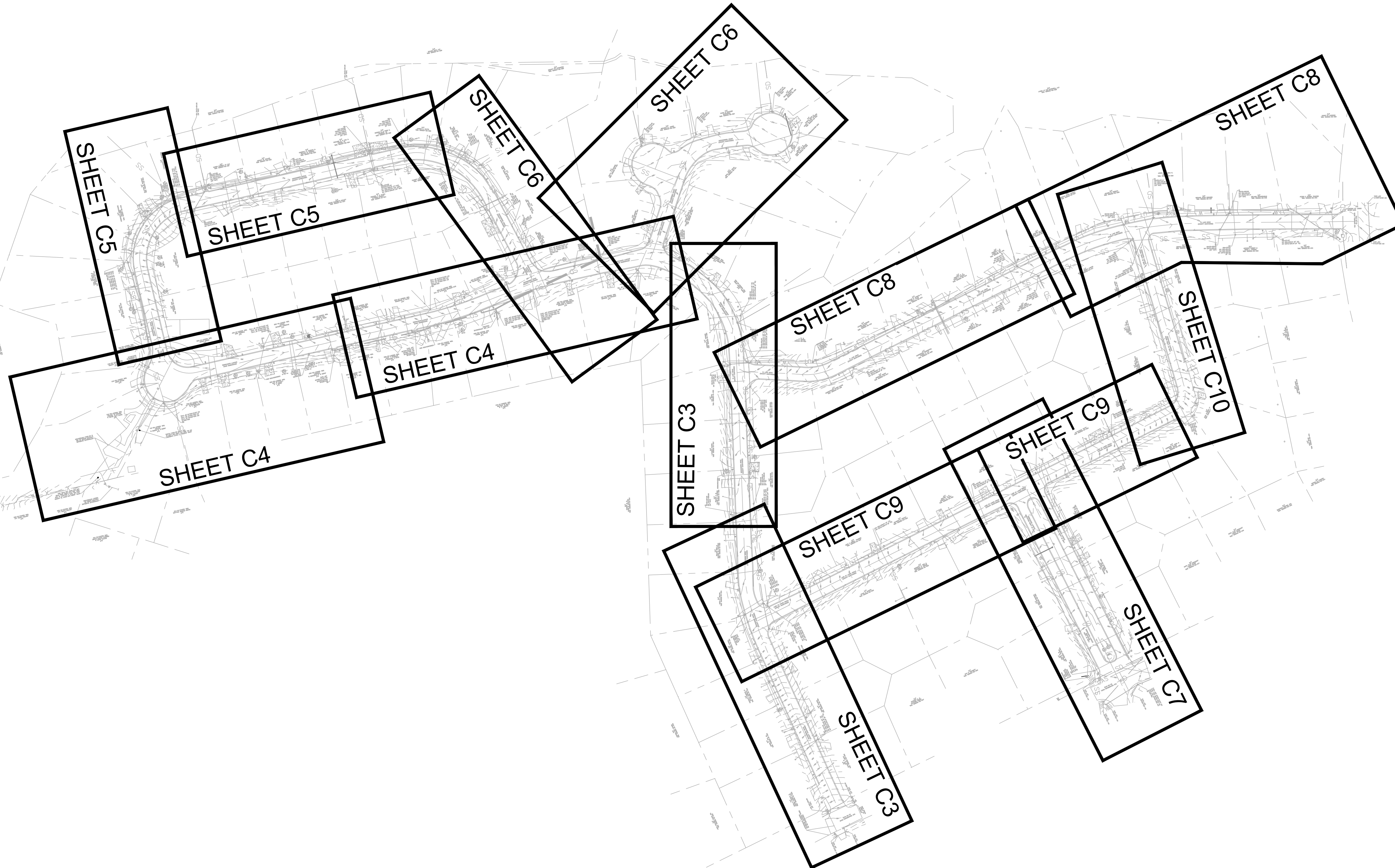
PROJECT
LAND OF LAKES WATER LINE
REPLACEMENT
IN
LEXINGTON, SC

SCALE: 1"=100'

PROJ NO: 24068

C2

JULY 31, 2025



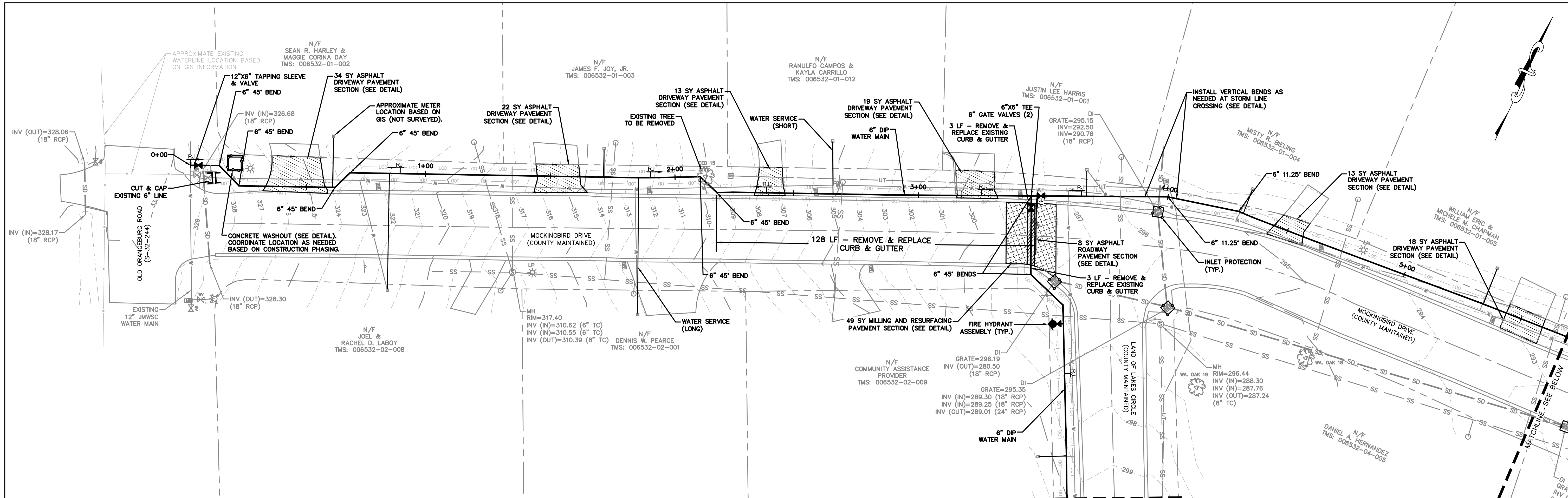
GRAPHIC SCALE



(IN FEET)
1 inch = 100 ft.

3 DAYS BEFORE DIGGING IN
SOUTH CAROLINA
CALL 1-888-721-7877
Palmetto Utility Protection Service

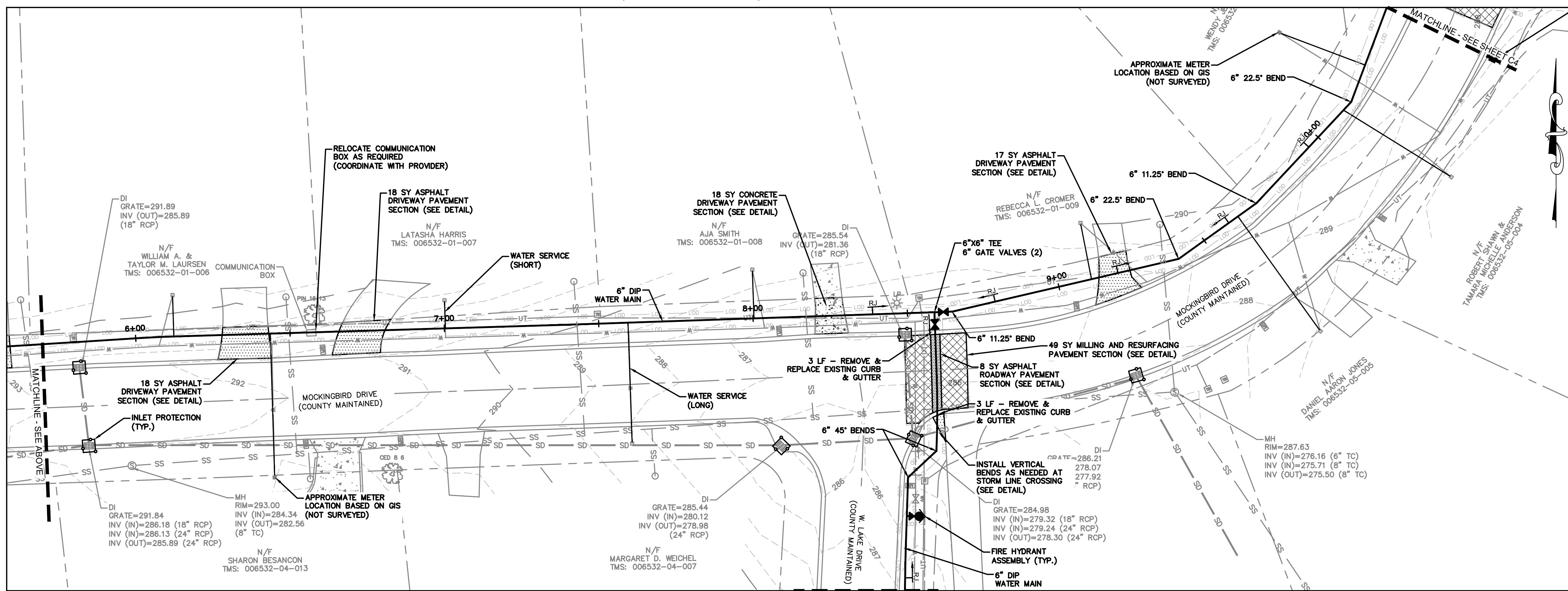
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MOCKINGBIRD DRIVE
ALIGNMENT A
(STA: 0+00 - 5+69)

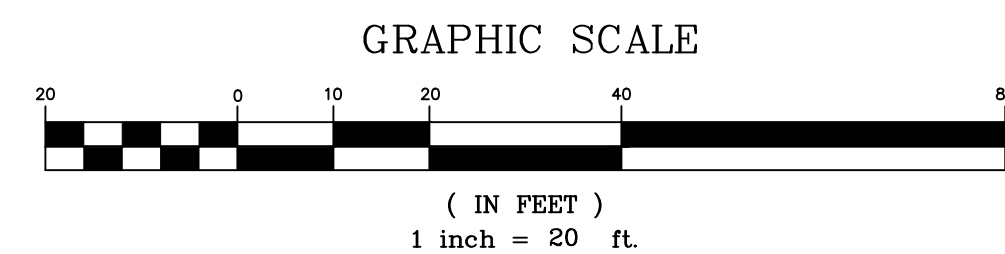
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MOCKINGBIRD DRIVE
ALIGNMENT A
(STA: 5+69 - 10+53)

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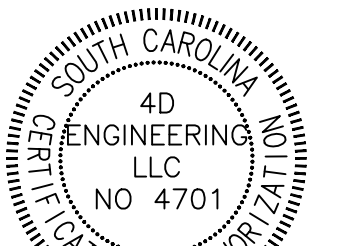


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REVISIONS

#	DESCRIPTION	DATE
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2	REVISED PER LEXINGTON COUNTY COMMENTS	09/02/25

SHEET
MOCKINGBIRD DRIVE
(STA: 0+00 - 10+53)

PROJECT
LAND OF LAKES WATER LINE
REPLACEMENT
IN
LEXINGTON, SC

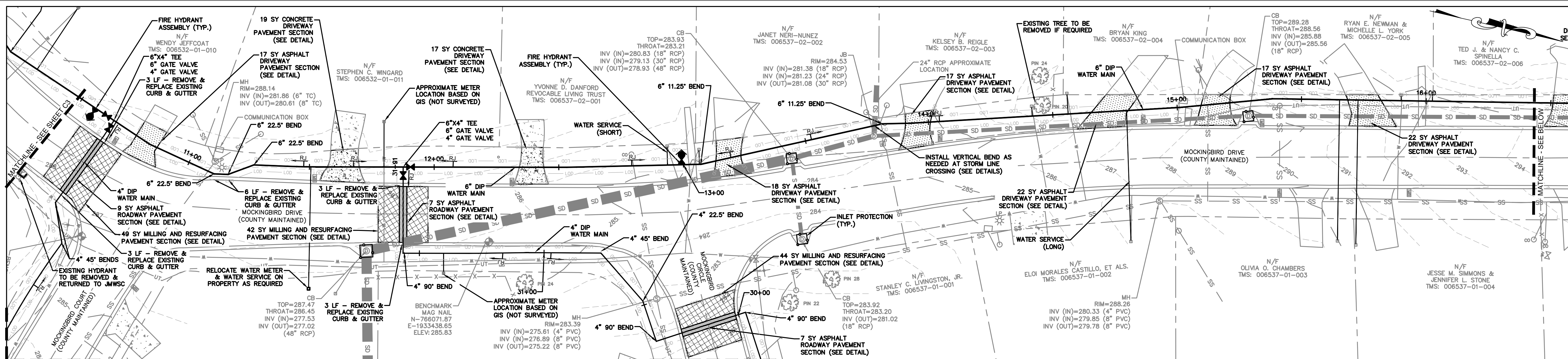
SCALE: 1"=20'

PROJ NO: 24068

C3

JULY 31, 2025

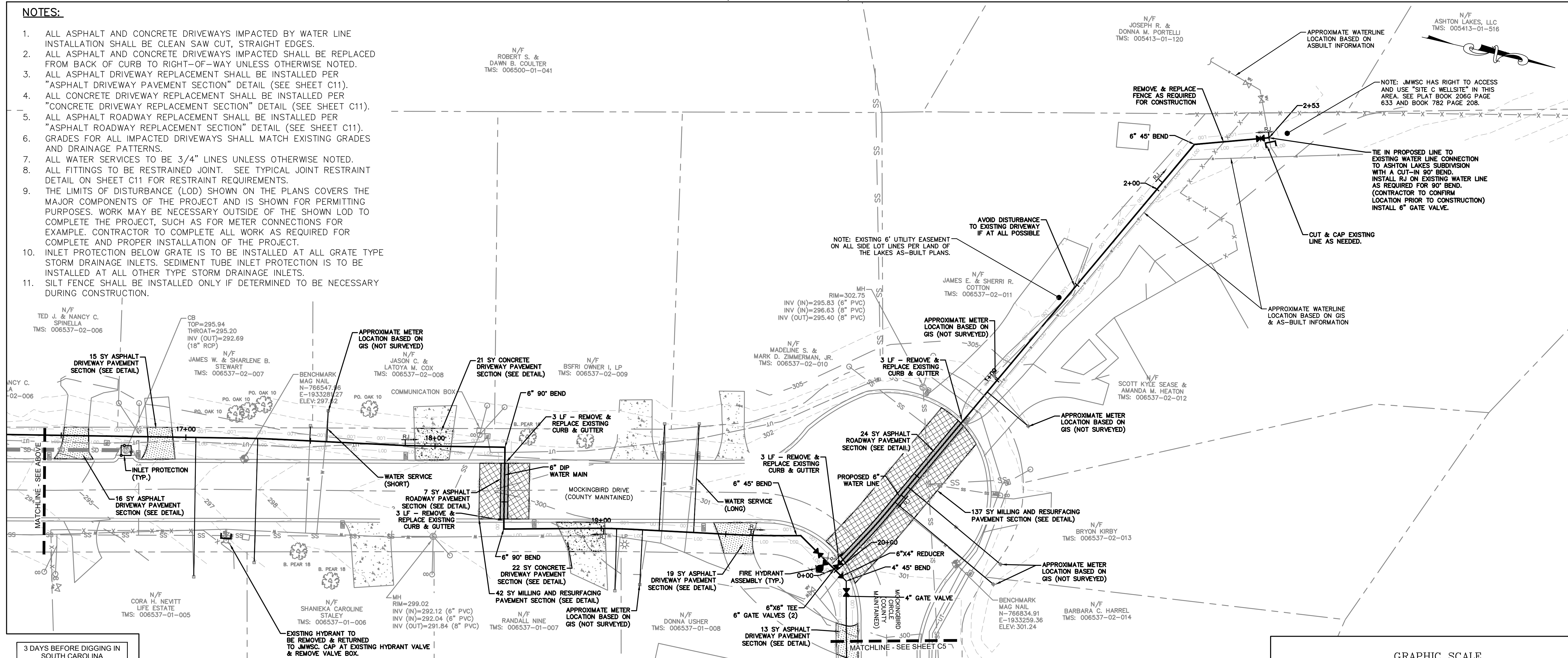
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MOCKINGBIRD DRIVE
ALIGNMENT A
(STA: 10+53 - 16+50)

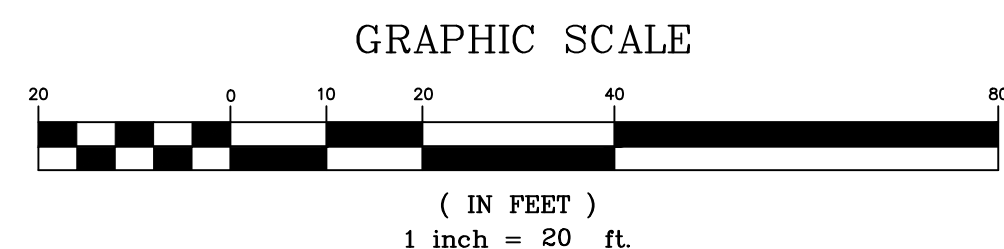
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MOCKINGBIRD DRIVE - ALIGNMENT A (STA: 16+50 - 20+19)
AND
ASHTON LAKES CONNECTION (STA: 0+00 -END)

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Palmetto Utility Protection Service

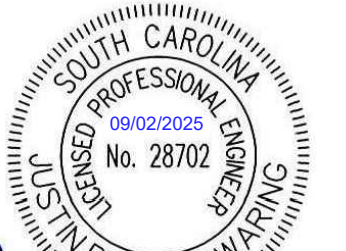
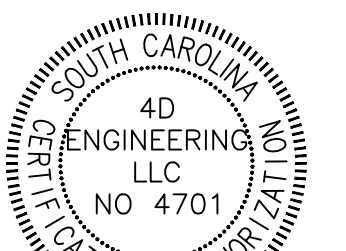


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SHEET
MOCKINGBIRD DRIVE (STA: 10+53
- 20+19) & ASHTON LAKE
CONNECTION (0+00 - END)

PROJECT
LAND OF LAKES WATER LINE
REPLACEMENT
IN
LEXINGTON, SC

SCALE: 1"=20'

PROJ NO: 24068

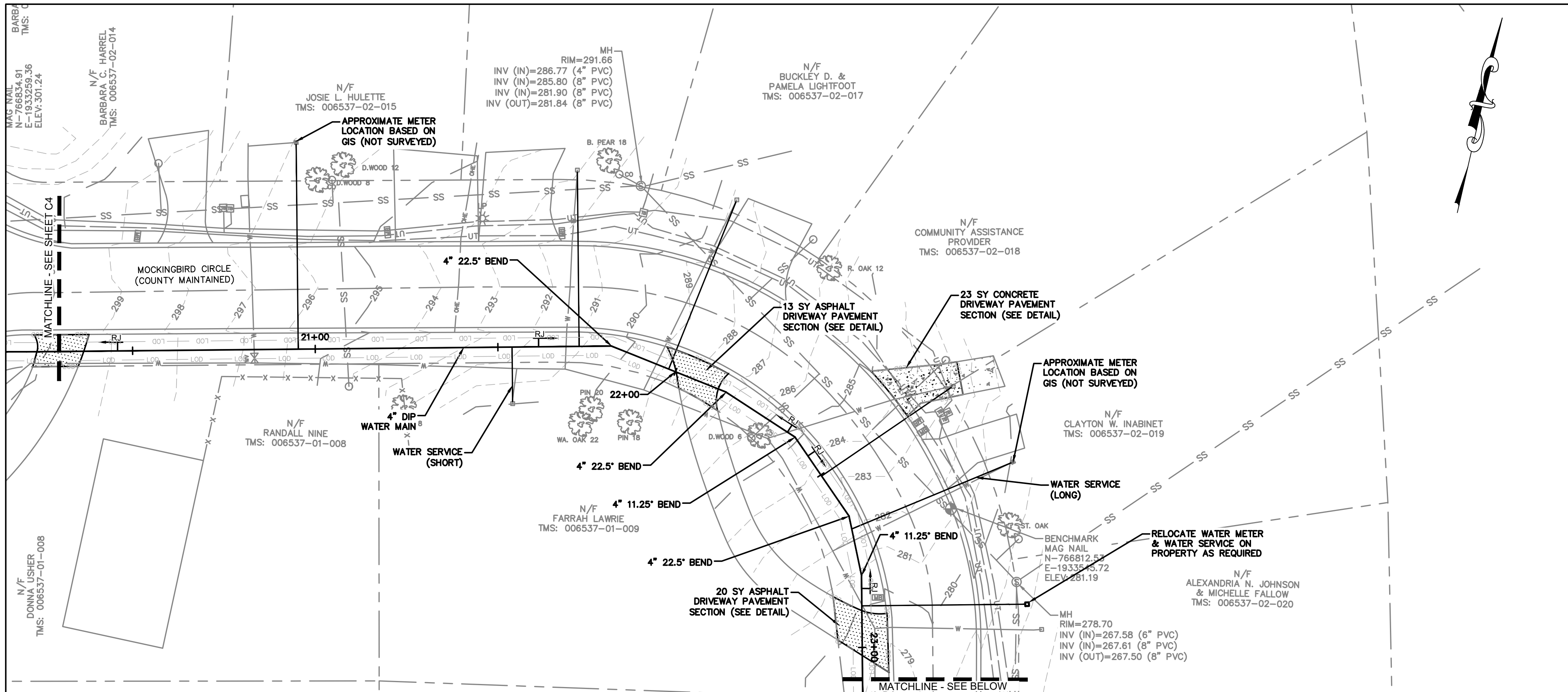
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JULY 31, 2025

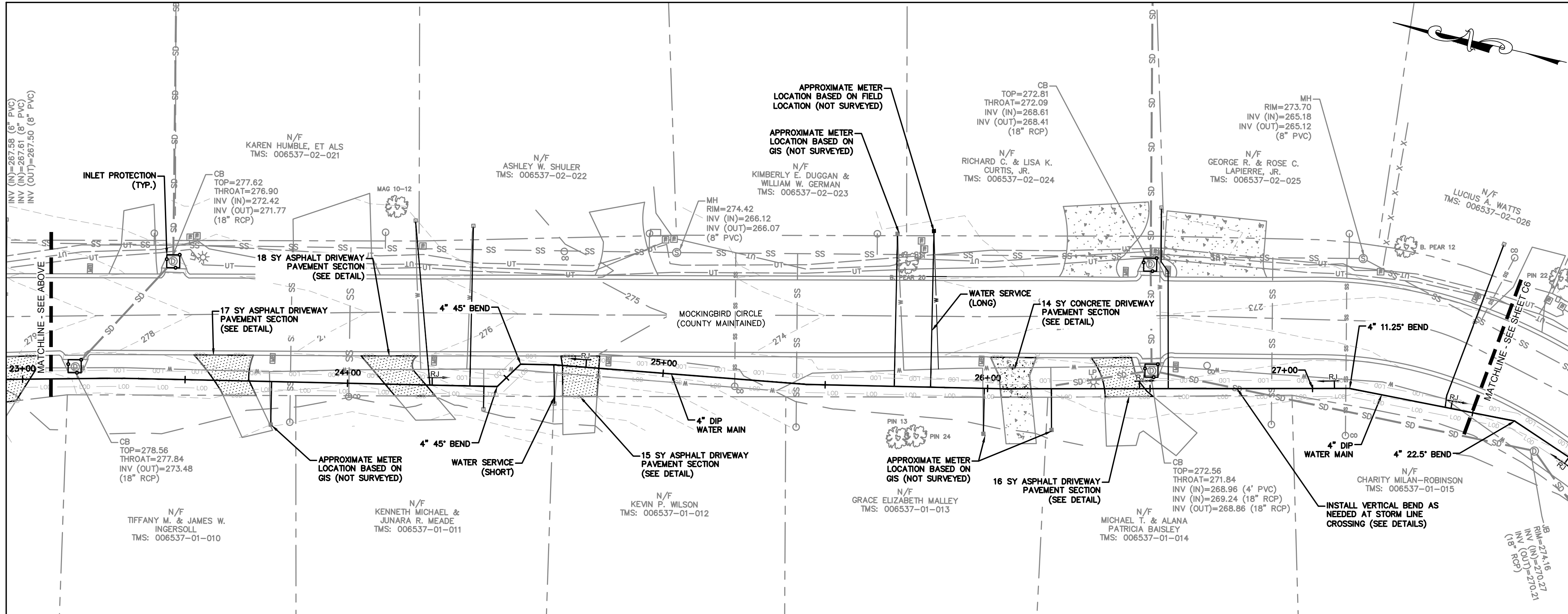
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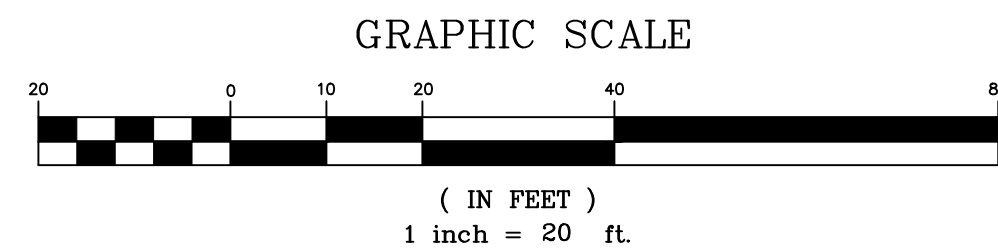


MOCKINGBIRD CIRCLE
ALIGNMENT A
(STA: 20+19 - 23+10)



MOCKINGBIRD CIRCLE
ALIGNMENT A
(STA: 23+10 - 27+50)

3 DAYS BEFORE DIGGING IN
SOUTH CAROLINA
CALL 1-888-721-7877
Palmetto Utility Protection Service

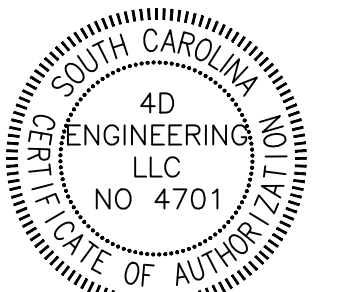


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SHEET
MOCKINGBIRD CIRCLE
(STA. 20+19 - 27+50)

PROJECT
LAND OF LAKES WATER LINE
REPLACEMENT
IN
LEXINGTON, SC

SCALE: 1"=20'

PROJ NO: 24068

C5

JULY 31, 2025

2" WATER LINE BLOW-OFF (SEE DETAIL)

APPROXIMATE METER LOCATION BASED ON GIS (NOT SURVEYED)

183 SY MILLING AND RESURFACING PAVEMENT SECTION (SEE DETAIL)

3 LF - REMOVE & REPLACE EXISTING CURB & GUTTER

32 SY ASPHALT ROADWAY PAVEMENT SECTION (SEE DETAIL)

PROPOSED 2" HDPE WATER LINE

3 LF - REMOVE & REPLACE EXISTING CURB & GUTTER

4" 22.5' BEND

4" 22.5' BEND

2" SERVICE SADDLE, VALVE, AND ADAPTER (SEE DETAIL)

37 SY ASPHALT DRIVEWAY PAVEMENT SECTION (SEE DETAIL)

WATER SERVICE (SHORT)

22 LF - REMOVE & REPLACE EXISTING CURB & GUTTER INLET PROTECTION (TYP.)

28 SY ASPHALT ROADWAY PAVEMENT SECTION (SEE DETAIL)

3 LF - REMOVE & REPLACE EXISTING CURB & GUTTER

49 SY MILLING AND RESURFACING PAVEMENT SECTION (SEE DETAIL)

EXISTING HYDRANT TO BE REMOVED & RETURNED TO JMWSC. CAP AT EXISTING HYDRANT VALVE & REMOVE VALVE BOX.

FIRE HYDRANT ASSEMBLY (TYP.)

6" DIP WATER MAIN

6" 22.5' BENDS

6"X4" TEE 6" GATE VALVE 4" GATE VALVE

4" 45' BEND

4" 45' BEND

4" DIP WATER MAIN

DI GRATE=276.90 INV (IN)=271.90 (18" CMP)

MIRANDA N/F JAMES TMS: 006532-05-023

MH RIM=277.48 INV (IN)=271.64 INV (OUT)=271.64 (8" TO)

HUGO N/F HEATHER BARAHONA TMS: 006532-05-024

DI GRATE=271.72 INV (IN)=269.02 (18" CMP)

N/F WILLIAM CHANDLER CHAPMAN TMS: 006532-05-025

APPROXIMATE METER LOCATION BASED ON FIELD LOCATION (NOT SURVEYED)

3 LF - REMOVE & REPLACE EXISTING CURB & GUTTER

N/F PASCAL MARK & NANCY S. PITTS, TRUSTEE TMS: 006532-05-002

POST HYDRANT ASSEMBLY

COMMUNICATION BOX

N/F JOSHUA C. & AUBREY R. LALASHIUS TMS: 006532-05-003

ROBERT SHAW & TAMARA MICHELLE ANDERSON TMS: 006532-05-004

BENCHMARK MAG N=891.41 E=337.97 ELEV=286.48

MOCKINGBIRD COURT (COUNTY MAINTAINED)

153 SY MILLING AND RESURFACING PAVEMENT SECTION (SEE DETAIL)

APPROXIMATE METER LOCATION BASED ON GIS (NOT SURVEYED)

SEE SHEET C-1

SEE SHEET C-2

(IN FEET)
1 inch = 20 ft.

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GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.

JULY 31, 2025

SHEET

W. LAKE DRIVE
(STA. 0+00 - END)

PROJECT

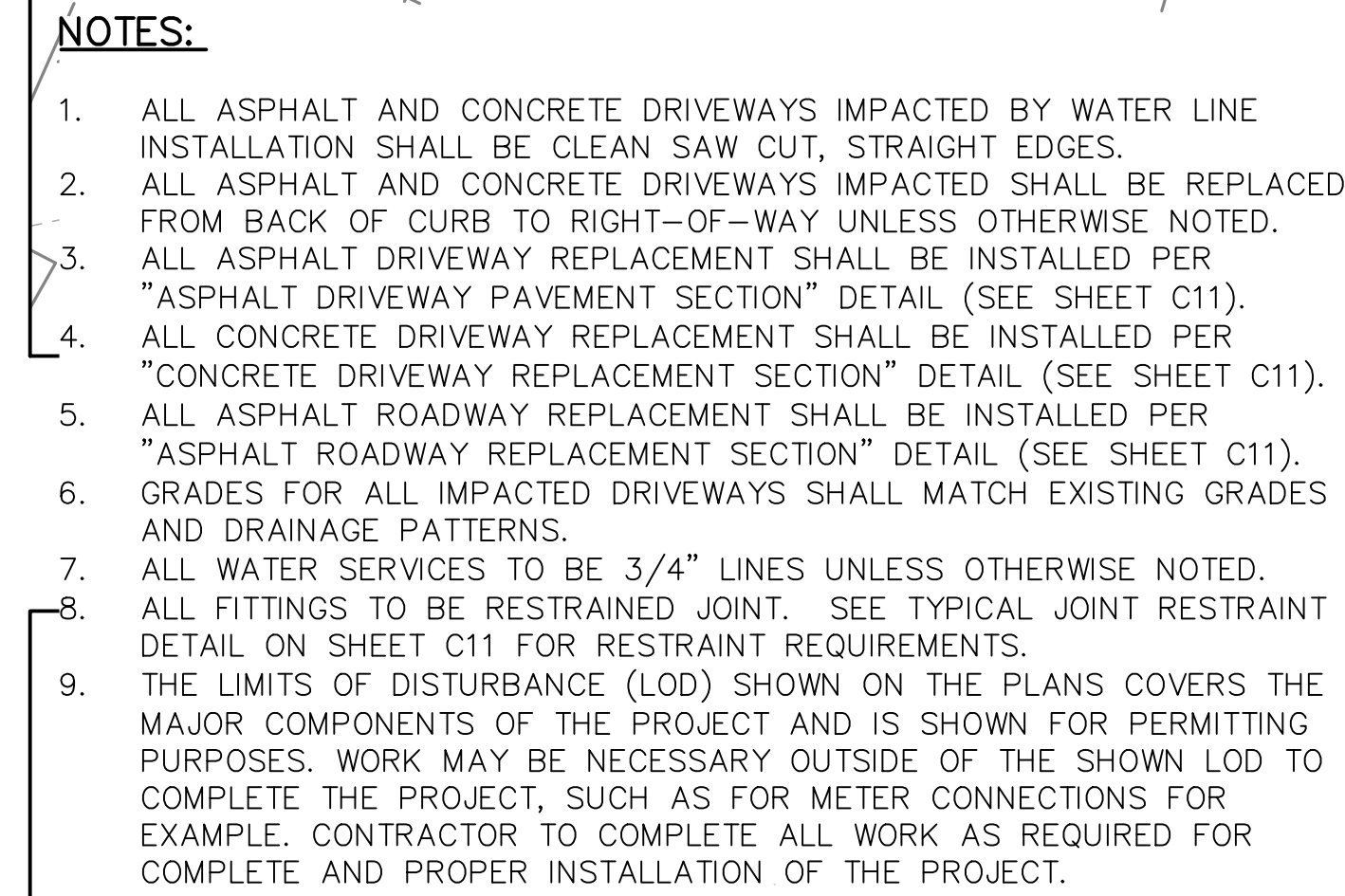
LAND AND OF LAKES WATER LINE
REPLACEMENT
IN
LEXINGTON, SC

SCALE: 1"=20'

PROJ NO: 24068

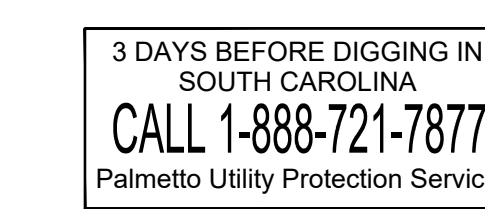
C8

JULY 31 2025

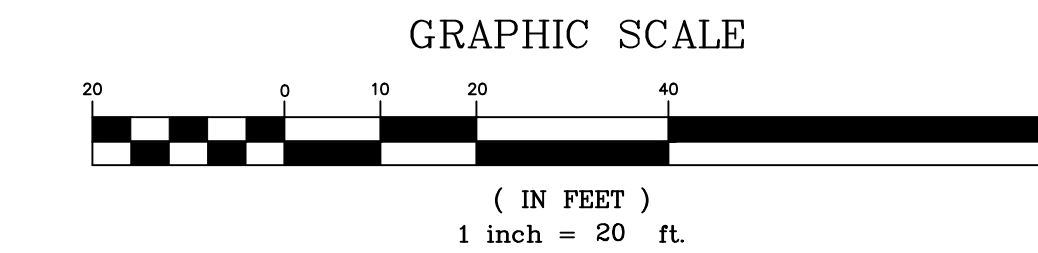


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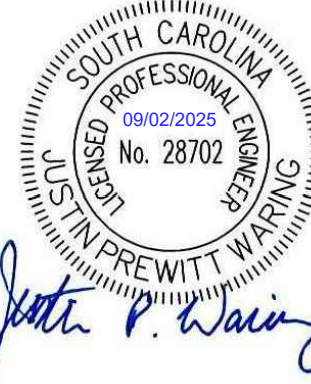
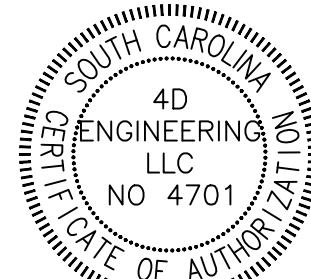
W. LAKE DRIVE
ALIGNMENT D
(STA: 0+00 - 6+30)



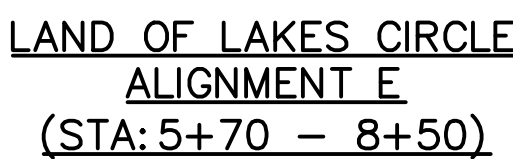
W. LAKE DRIVE
ALIGNMENT D
(STA: 6+30 - END)



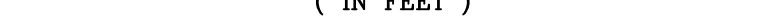
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[illegible]

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GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.

SHEET

LAND OF LAKES CIRCLE
(STA. 0+00 - 8+50)

PROJECT
LAND OF LAKES WATER LINE
REPLACEMENT
IN
LEXINGTON, SC

SCALE: 1"=20'

PROJ NO: 24068

C9

JULY 31, 2025

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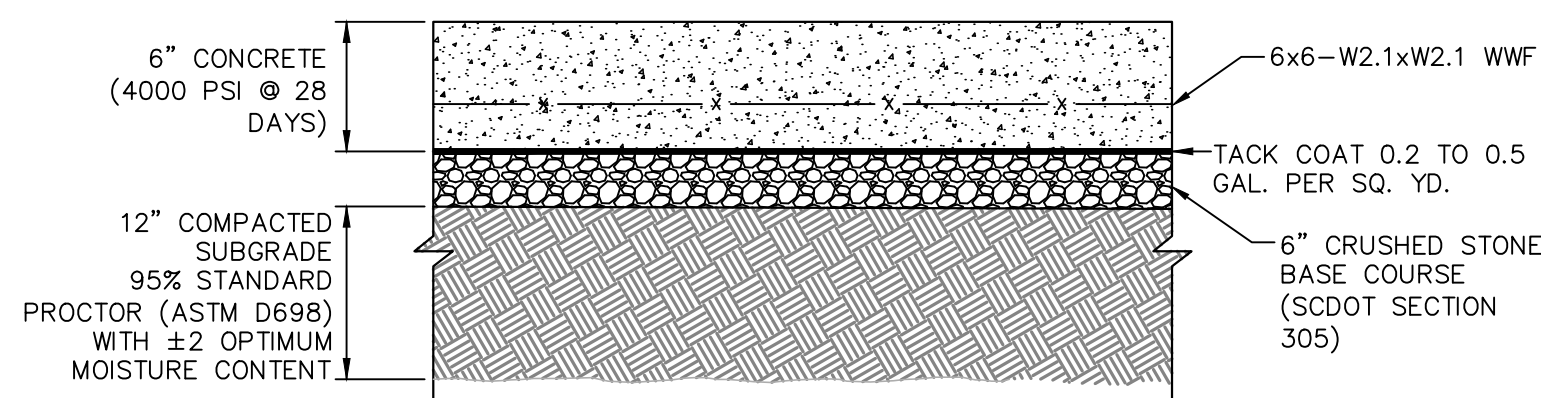
GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
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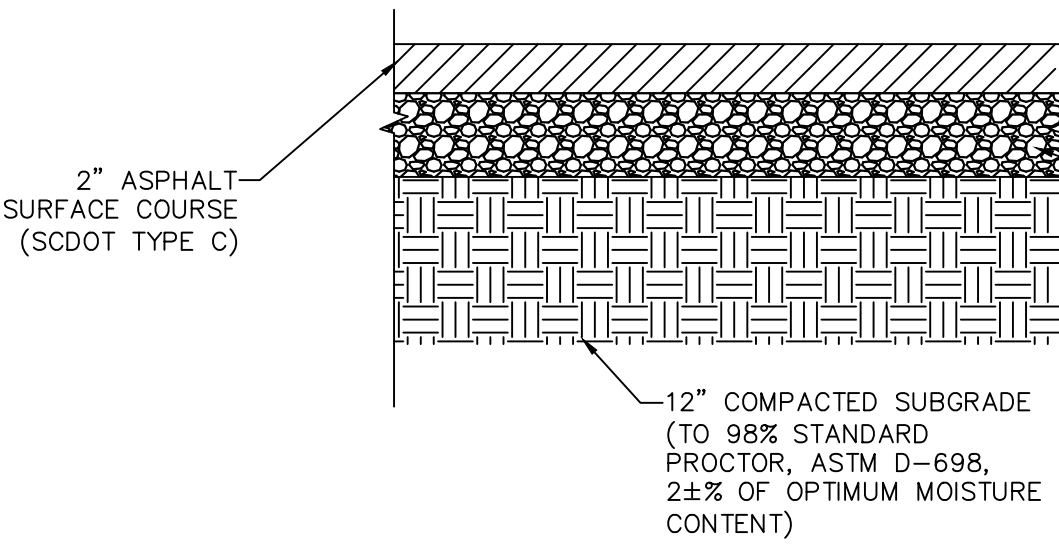
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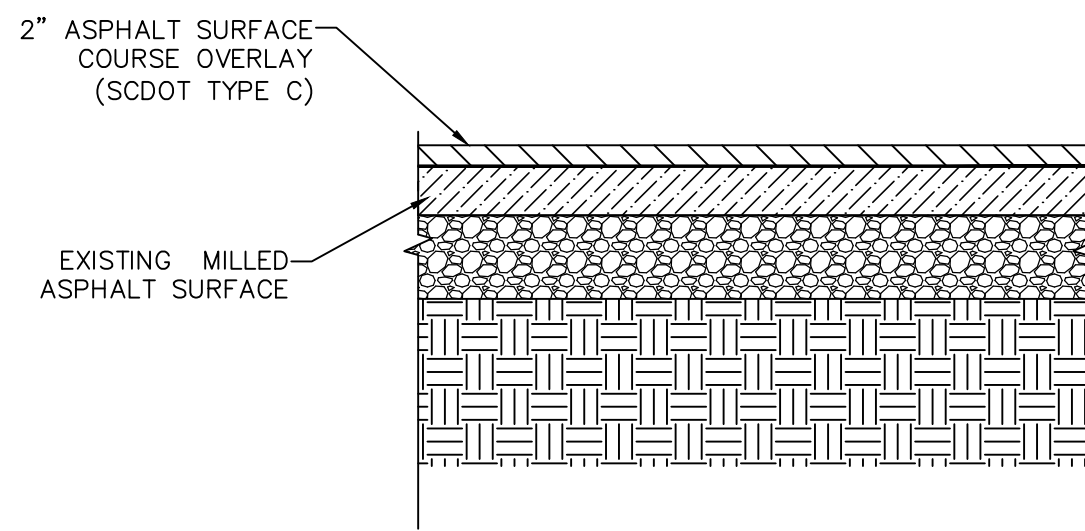
CONCRETE DRIVEWAY PAVEMENT SECTION

NOT TO SCALE



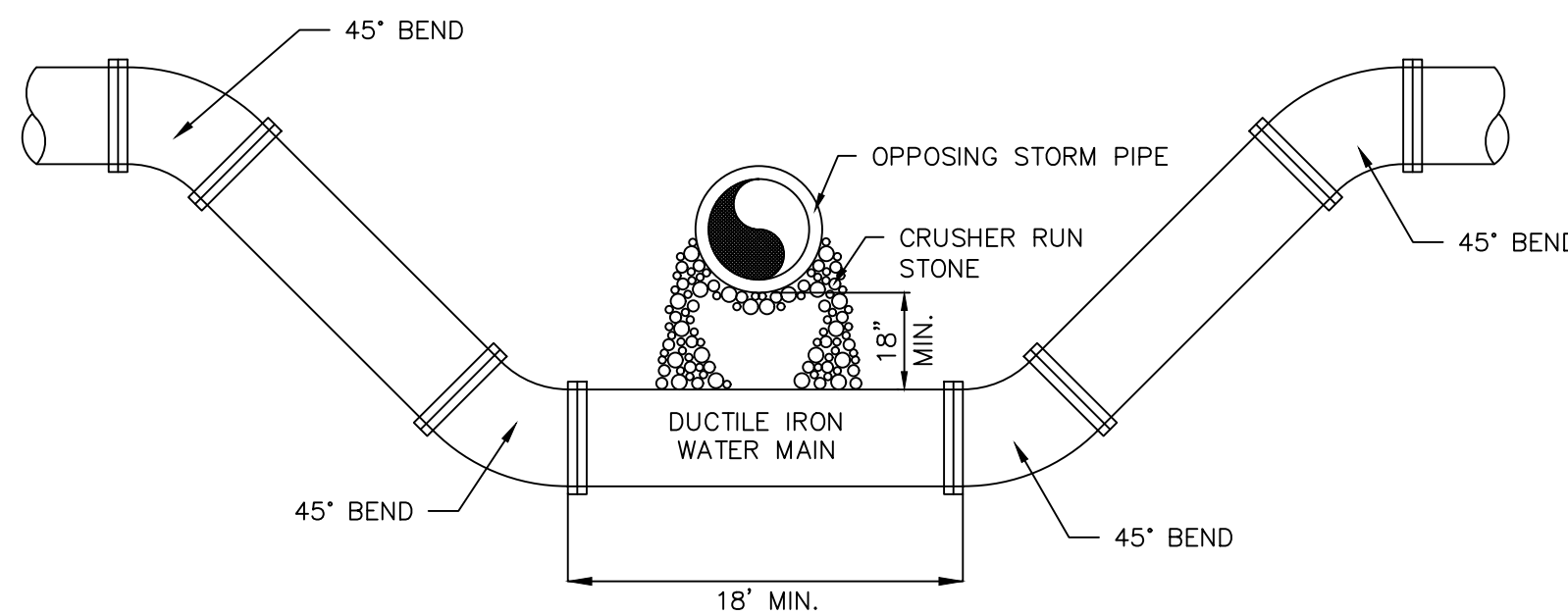
ASPHALT DRIVEWAY PAVEMENT SECTION

NOT TO SCALE



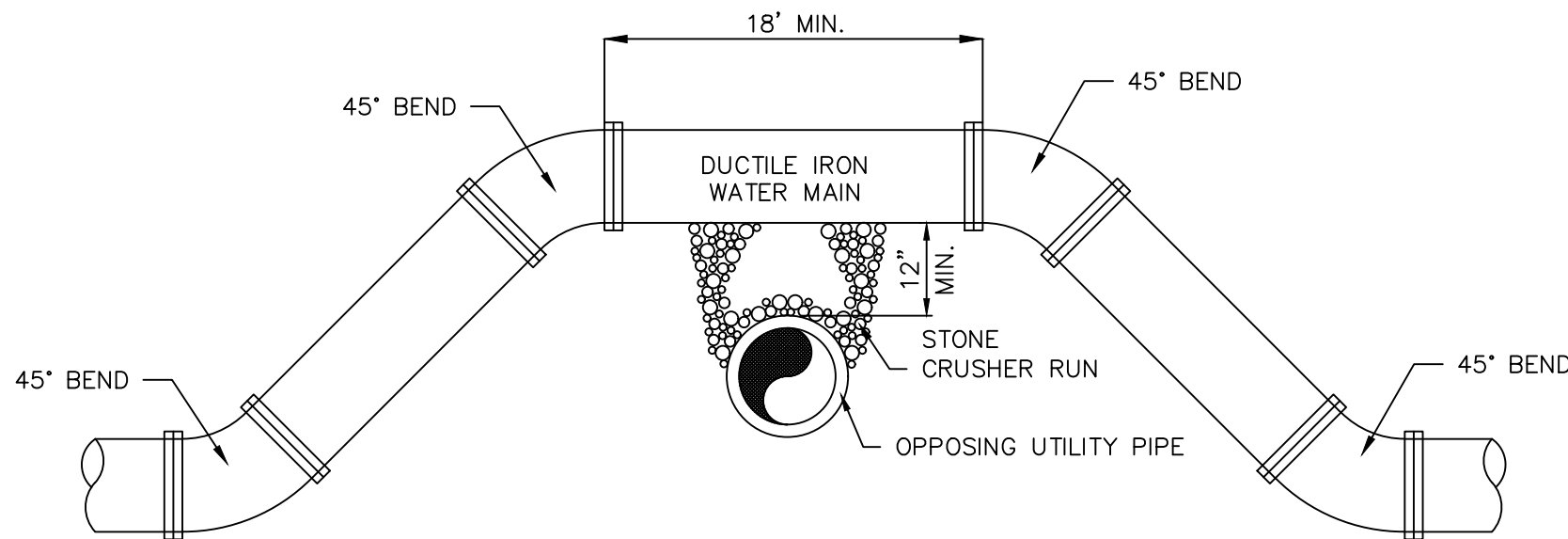
MILLING AND RESURFACING PAVEMENT SECTION

NOT TO SCALE



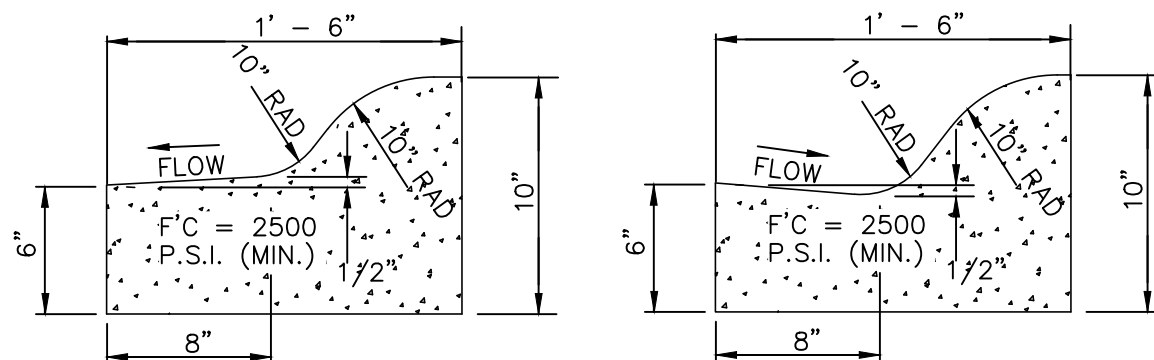
WATER CROSSING UNDER STORM LINE DETAIL

NOT TO SCALE



WATER CROSSING ABOVE UTILITY LINE DETAIL

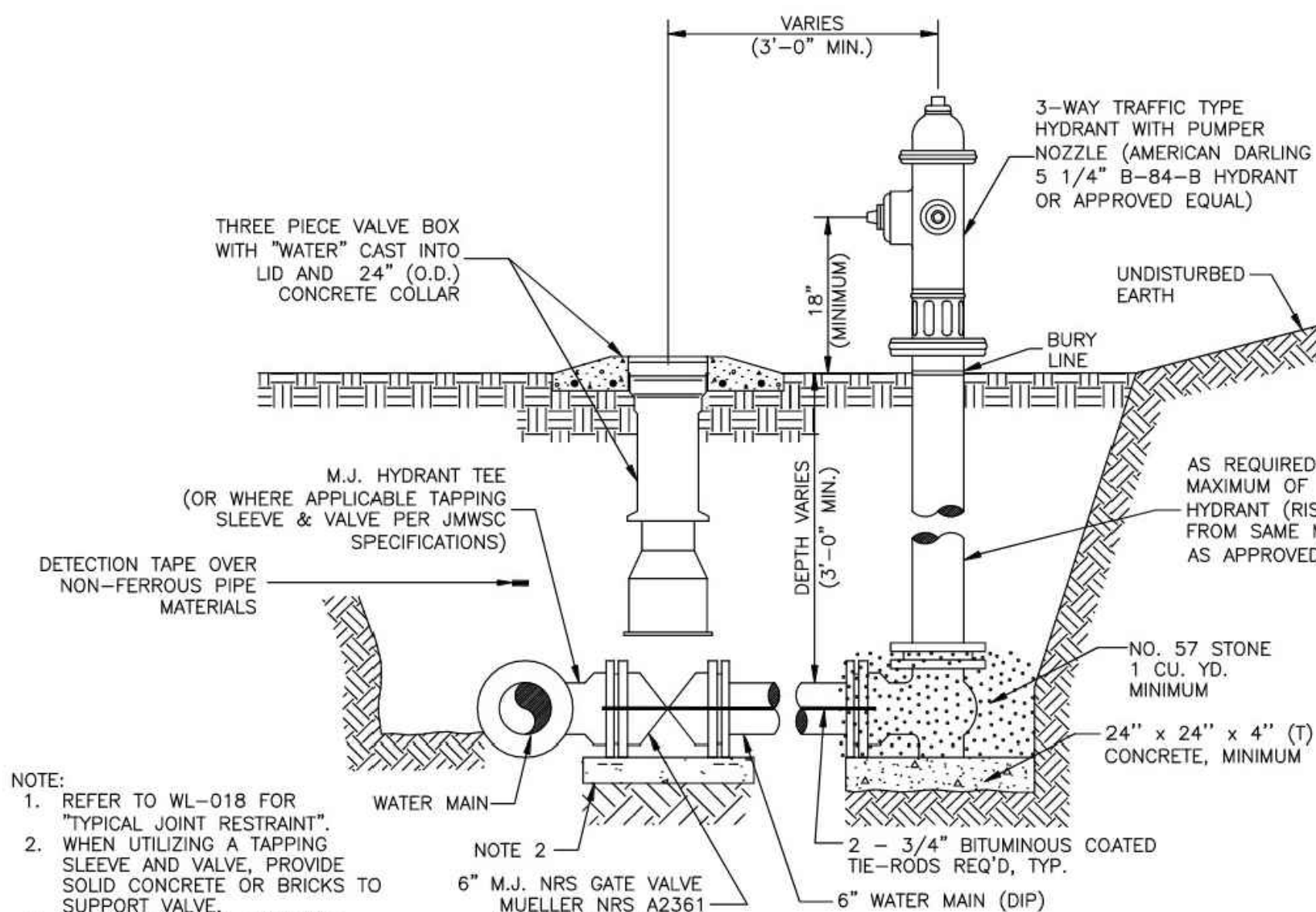
NOT TO SCALE



NOTE: 1. CURBING SHALL MATCH THE EXISTING CURB AND GUTTER AT THE SITE.

ROLLED CURB AND GUTTER

NOT TO SCALE



STANDARD FIRE HYDRANT ASSEMBLY

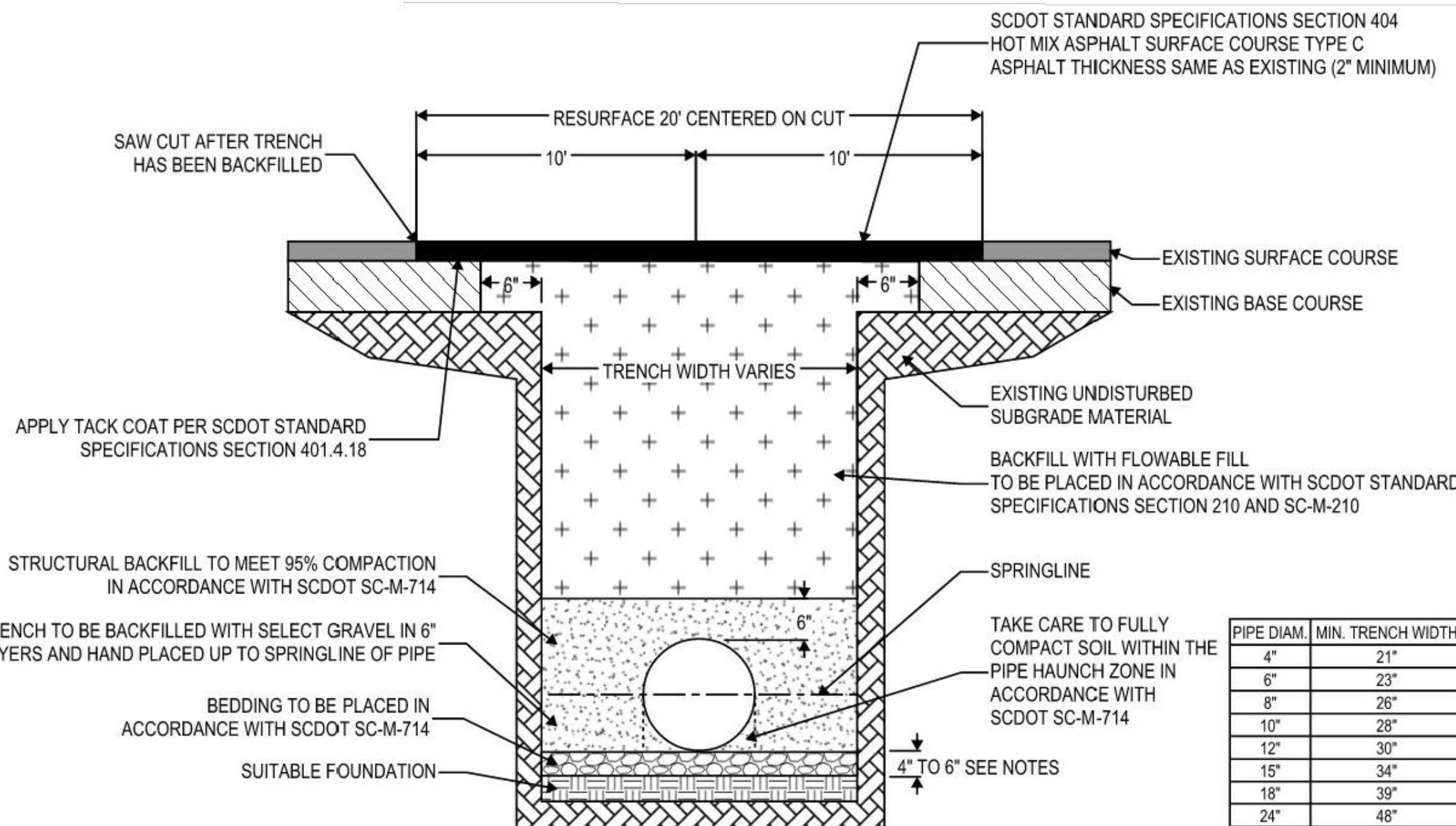
NOT TO SCALE

NOTES:

FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.

BEDDING: SUITABLE MATERIAL SHALL BE PLACED IN ACCORDANCE WITH SCDOT SC-M-714. MINIMUM BEDDING THICKNESS SHALL BE 4" FOR 4" TO 24" DIAMETER PIPES AND 6" FOR 30" TO 60" DIAMETER PIPES.

STRUCTURAL BACKFILL: SUITABLE MATERIAL SHALL BE IN THE PIPE ZONE EXTENDING 6" ABOVE THE CROWN OF THE PIPE. MATERIALS SHALL BE IN ACCORDANCE WITH SC-M-714.

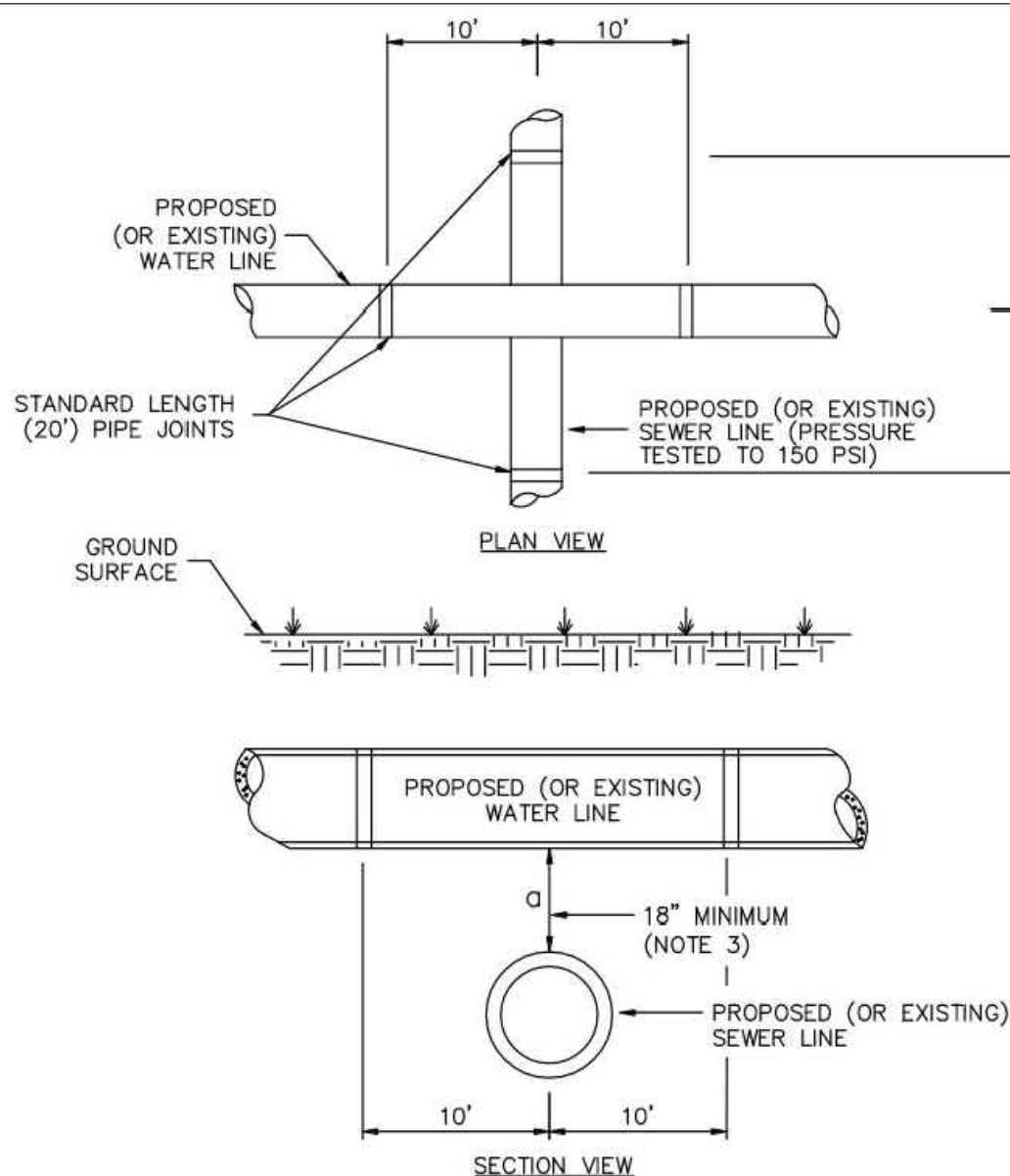


ASPHALT ROADWAY PAVEMENT SECTION

NOT TO SCALE

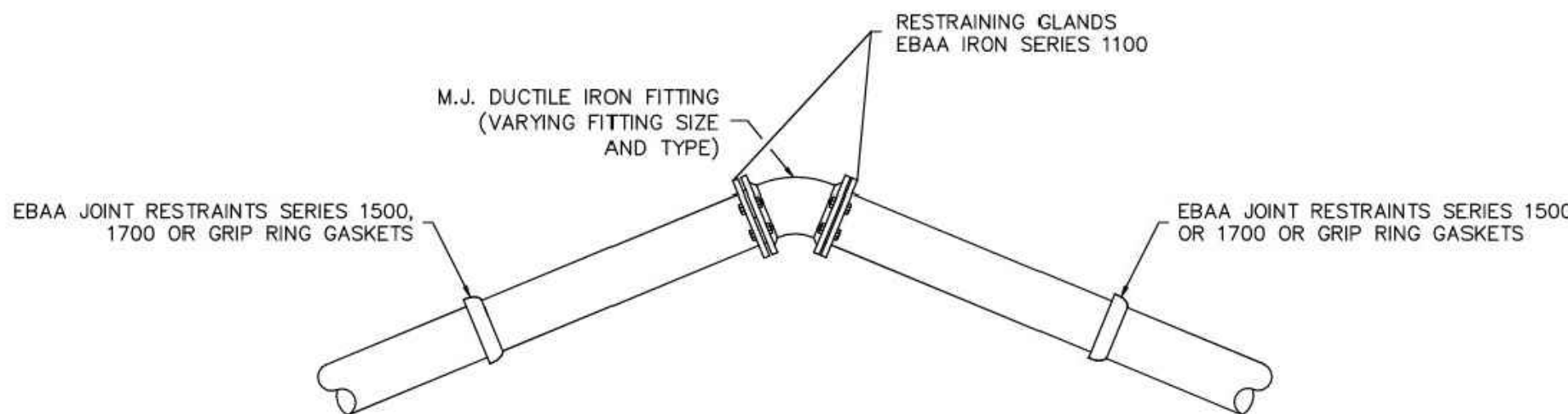
NOTE:

1. REFER TO JMWSC STANDARD SPECIFICATIONS OF WATER DISTRIBUTION PIPING, GRAVITY SEWER, OR FORCE MAINS FOR INFORMATION PERTAINING TO CROSSING OF UTILITIES (PART 1.3 AND PART 3.2).
2. WATER AND SEWER CROSSINGS SHALL HAVE A MINIMUM VERTICAL SEPARATION OF 18".
3. WHERE VERTICAL SEPARATION ("a") IS LESS THAN 18", NEW WATER MAIN (OVER OR BELOW) SHALL BE SPACED SO JOINTS ARE SPACED AT 10' FROM THE CROSSING.
4. WHERE IT IS NOT PHYSICALLY POSSIBLE TO LOCATE SEWER PIPE MUST BE FULLY ENCASED IN CONCRETE FOR A MINIMUM OF 10' ON EACH SIDE OF CROSSING.



FERROUS MATERIALS AND JOINT REQUIREMENTS FOR WATER AND SEWER LINE CROSSING

NOT TO SCALE



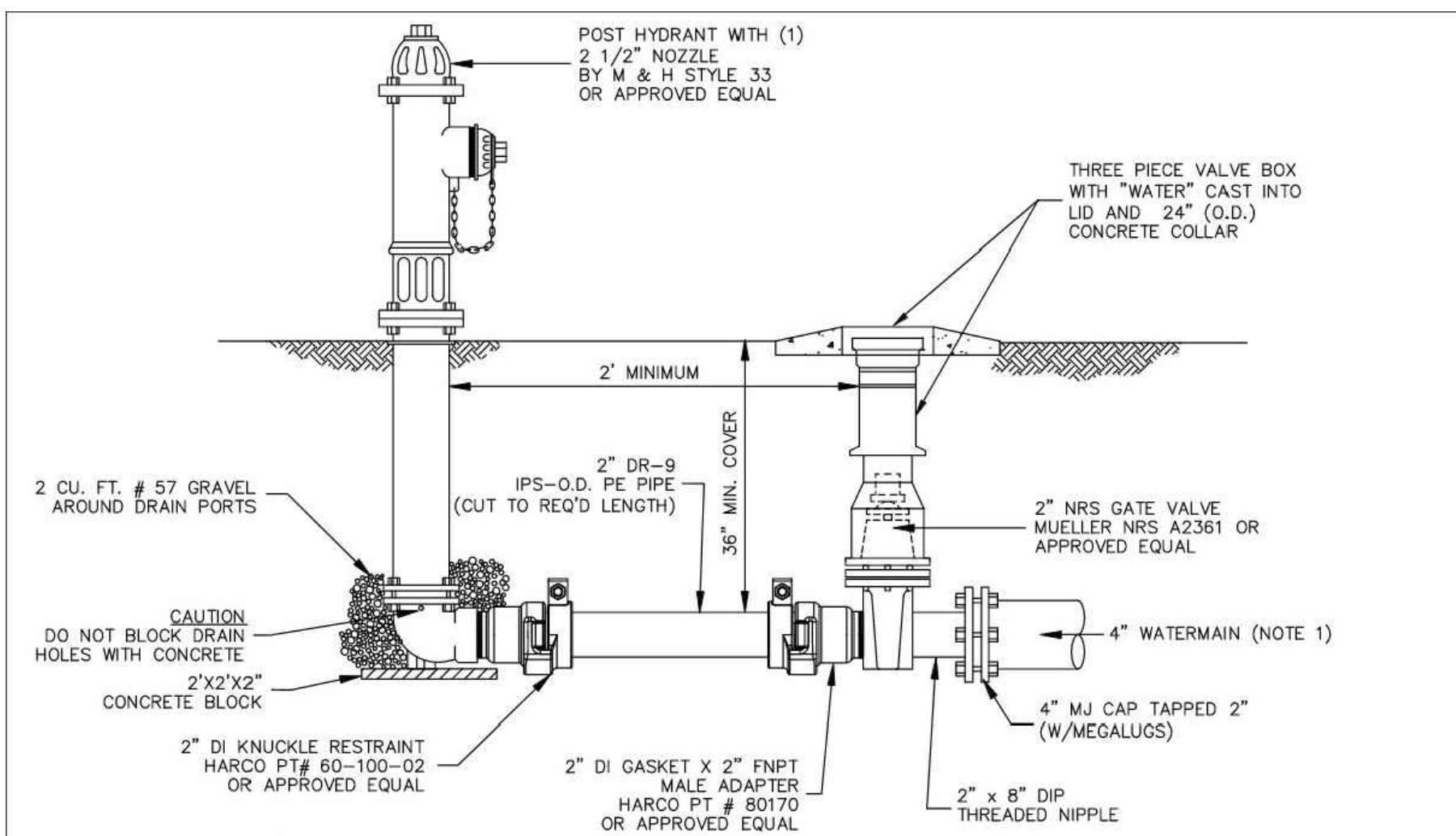
PIPE SIZES UP TO 10"	
FITTING	RESTRAINED JOINTS
22.5° BEND	1 - EACH SIDE
45° BEND	1 - EACH SIDE
90° BEND	2 - EACH SIDE
TEE	1 - EACH SIDE/RUN 2 - ON BRANCH
REDUCER	2 - EACH SIDE
DEAD-END HYDRANT	4 - PRIOR TO HYD.
STUB-OUTS	3 - FULL JOINTS

NOTES:

1. TABLE ABOVE REPRESENTS MINIMUM NUMBER OF RESTRAINTS BASED UPON FULL LENGTH PIPE SECTIONS ON EACH SIDE FOR PIPE SIZES UP TO 10".
2. FOR PIPE SIZES LARGER THAN 10", THE NUMBER OF REQUIRED RESTRAINTS ON EACH SIDE ARE SPECIFIED ON THE PLANS OR AS DETERMINED BY JMWSC IF UNSPECIFIED.

TYPICAL JOINT RESTRAINT

NOT TO SCALE



NOTES:

1. PRIOR TO VALVE, WATER MAIN SHALL BE RESTRAINED FOR A MINIMUM DISTANCE OF 60 LINEAR FEET.
2. STIFFENERS WILL NEED TO BE INSTALLED IN EACH END. PROVIDE HARCO STIFFENER PT # 65-90480902 OR APPROVED EQUAL.

POST TYPE HYDRANT BLOW-OFF FOR 4" WATER MAINS

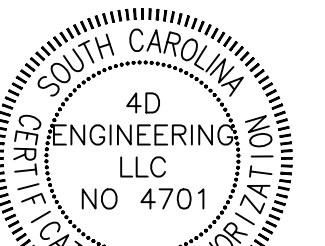
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REVISIONS

#	DESCRIPTION	DATE
1	ISSUED FOR BID	08/11/25
2	REVISED PER LEXINGTON COUNTY COMMENTS	08/02/25

SHEET

CONSTRUCTION DETAILS (SHEET 1 OF 3)

PROJECT

LAND OF LAKES WATER LINE REPLACEMENT IN LEXINGTON, SC

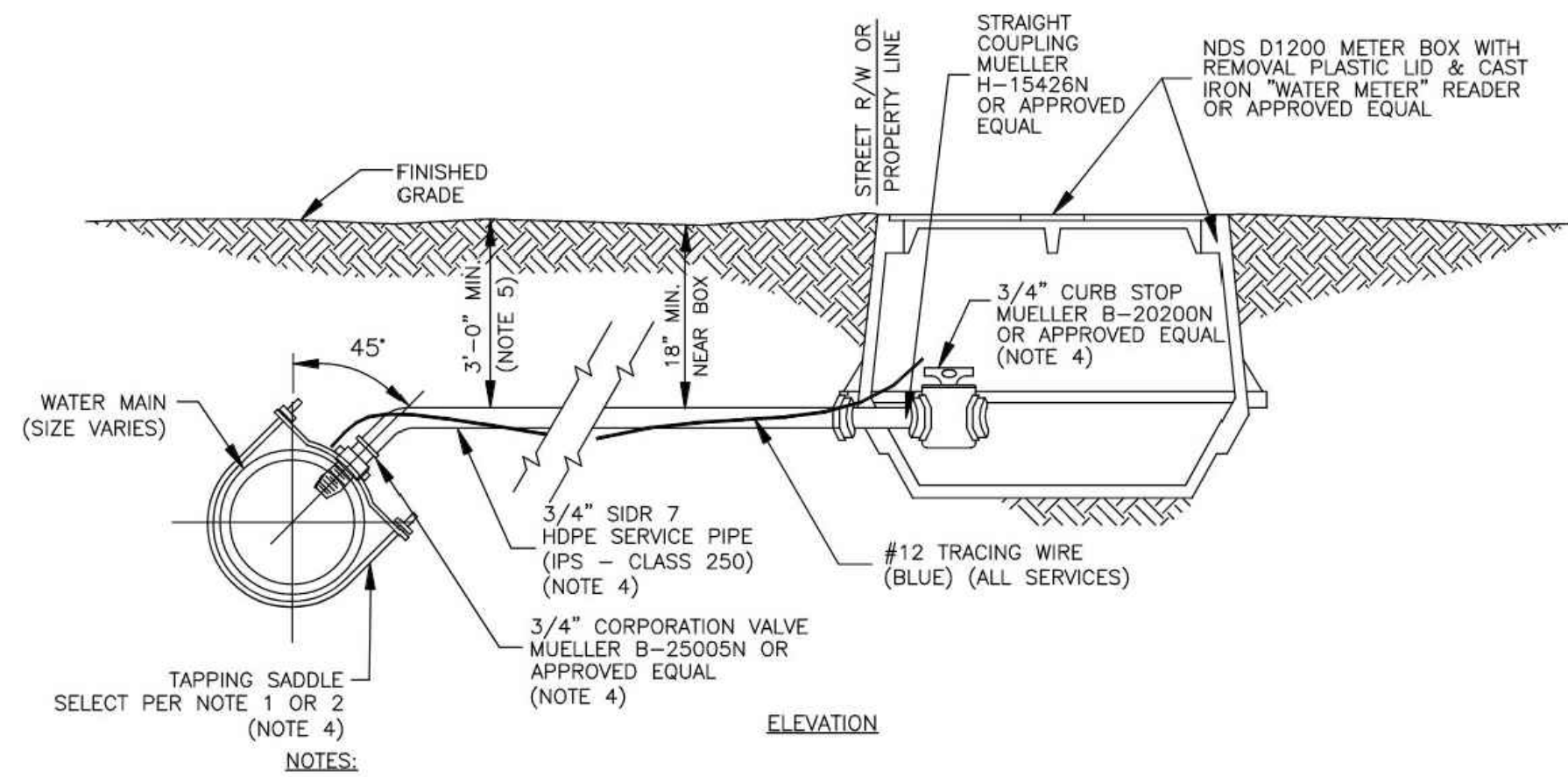
SCALE: NTS

PROJ NO: 24068

C11

JULY 31, 2025

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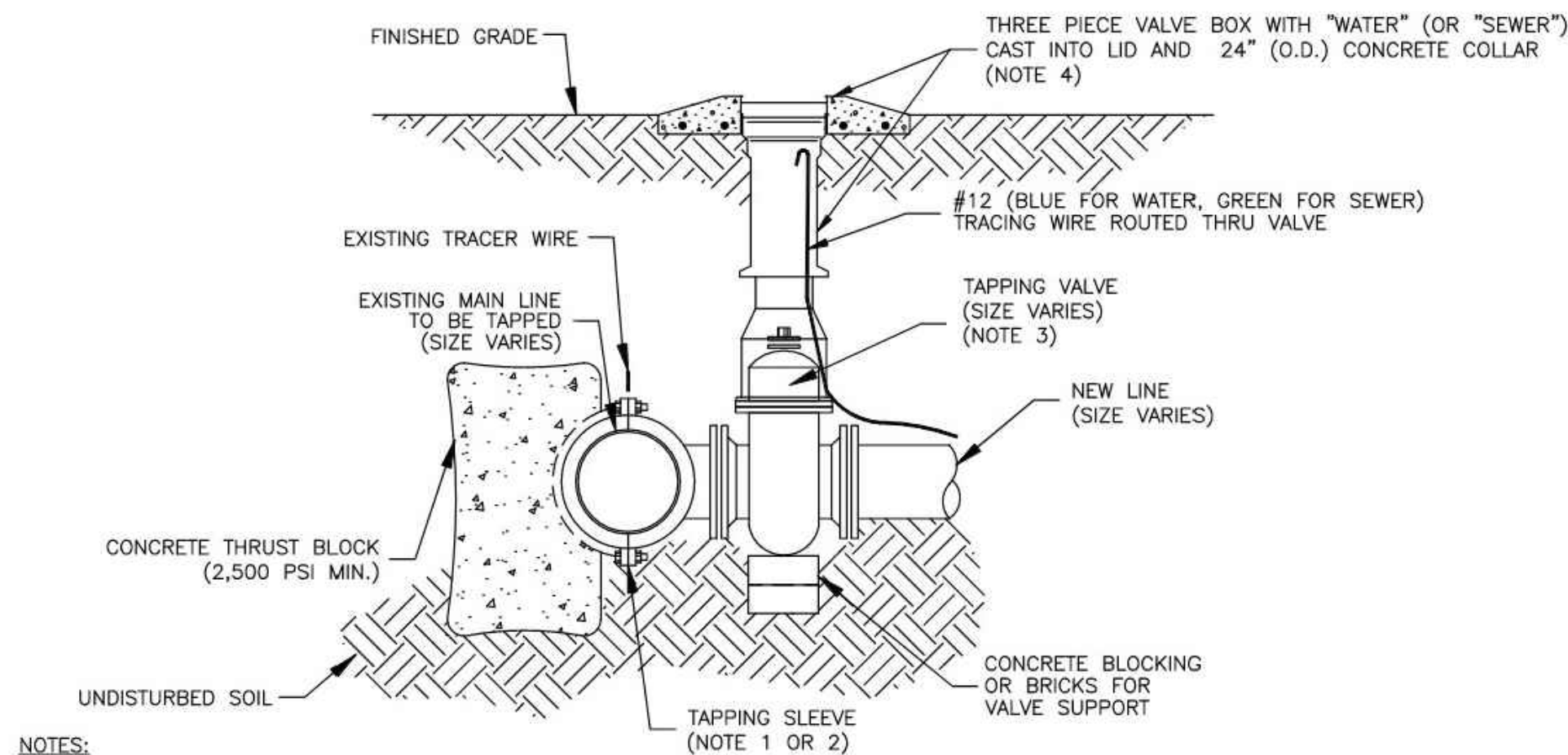


- NOTES:
1. FOR PVC PIPE: USE JCM # 406 COATED SADDLE WITH DOUBLE STAINLESS STEEL STRAPS OR APPROVED EQUAL. SELECT SADDLE SIZE BASED UPON PIPE SIZE BEING TAPPED AND TAP SIZE.
 2. FOR DUCTILE IRON PIPE: USE JCM # 408 COATED SADDLE WITH DOUBLE ELECTRO GALVANIZED STRAPS OR APPROVED EQUAL. SELECT SADDLE SIZE BASED UPON PIPE SIZE BEING TAPPED AND TAP SIZE.
 3. PLASTIC SERVICE PIPE AND TRACING WIRE SHALL HAVE CONTINUOUS RUN LENGTHS CONTAINING NO BREAKS OR JOINTS.
 4. WHERE 1" METER IS REQUIRED, PROVIDE TAPPING SADDLE FOR 1" TAP, 1" TUBING, 1" COUPLING, 1" CORPORATION VALVE, AND 1" CURB STOP WITH SAME MATERIALS AS SPECIFIED FOR 3/4" X 5/8".
 5. WHEN SERVICE LINE IS CROSSING BELOW A ROADWAY, A MINIMUM DEPTH OF 3' IS REQUIRED.
 6. REFER TO JMWSC STANDARD DETAIL WL006 FOR WATER METER CONNECTION PLAN.

FILE NO. WL004

3/4" & 1" WATER SERVICE

NOT TO SCALE

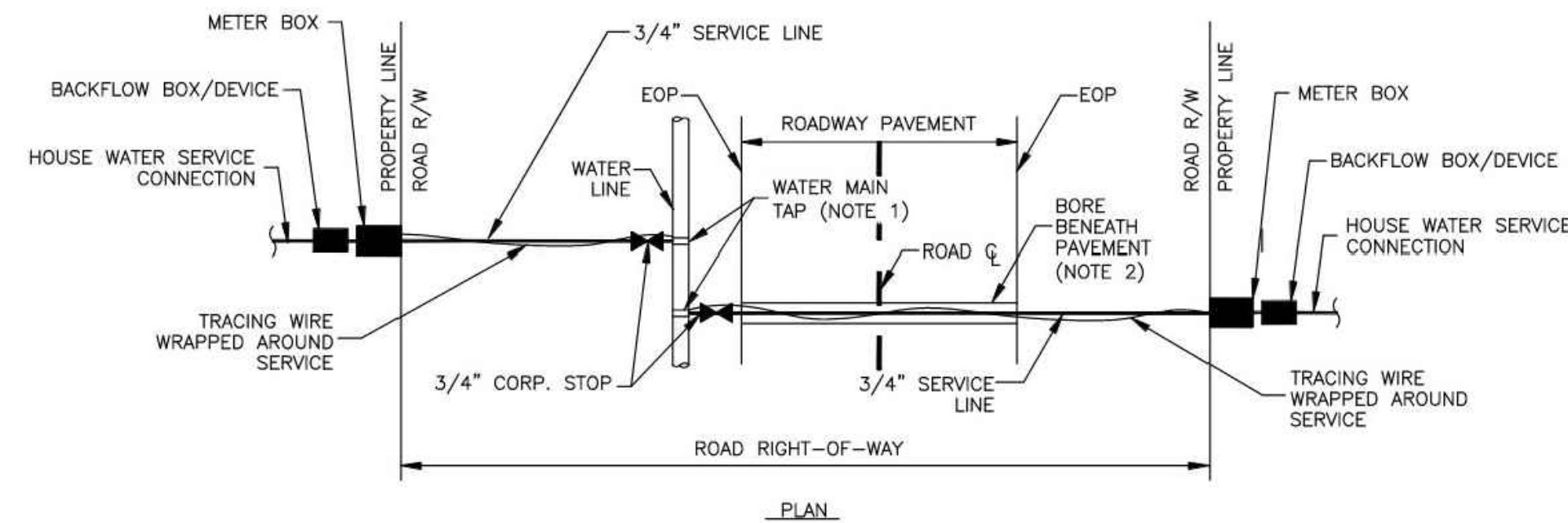


- NOTES:
1. FOR SIZE ON SIZE TAPS: USE CAST IRON OR DUCTILE IRON SPLIT REPAIR TYPE WITH MECHANICAL END JOINTS. PROVIDE MUELLER H-615 OR APPROVED EQUAL.
 2. FOR REDUCED SIZE TAPS (3" AND LARGER): PROVIDE FUSION BOND COATED STEEL TAPPING SLEEVE. USE ROMAC INDUSTRIES FTS 420 FOR DUCTILE, CAST IRON, OR STEEL PIPE AND FTS 419 FOR PVC (PLASTIC PIPE) OR APPROVED EQUAL.
 3. FOR PIPE SIZES 12" AND BELOW, USE FLANGE X MJ GATE VALVES BY MUELLER NRS A2361 OR APPROVED EQUAL. FOR PIPE SIZES GREATER THAN 12", USE FLANGE X MJ TAPPING VALVE BY MUELLER T-2361 OR APPROVED EQUAL.
 4. ALL VALVE BOXES IN OR OUT OF PAVEMENT MUST BE TRAFFIC RATED. IF TAP IS LOCATED BELOW EXISTING/PROPOSED PAVEMENT, CONCRETE COLLAR IS NOT REQUIRED, ASPHALTIC OR CONCRETE SURFACE MUST BE INSTALLED FLUSH WITH TOP OF VALVE BOX.
 5. REFER TO JMWSC STANDARD SPECIFICATION - WATER UTILITY DISTRIBUTION PIPING OR FORCE MAINS.

FILE NO. WL013

TAPPING SLEEVE & VALVE

NOT TO SCALE

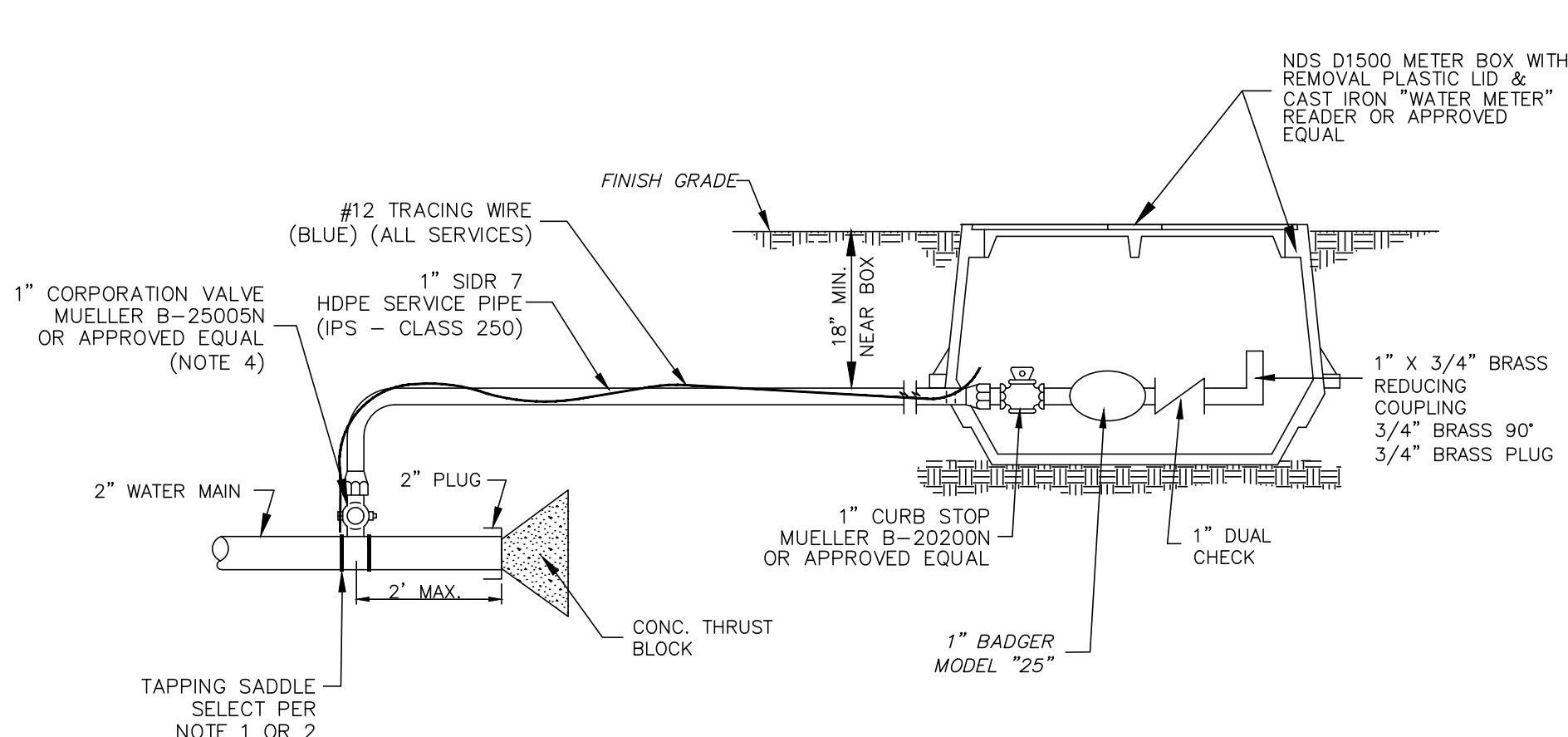


- NOTES:
1. REFER TO JMWSC STANDARD DETAIL WL004 - 3/4" & 1" WATER SERVICE DETAILS FOR TAP REQUIREMENTS AND MATERIALS.
 2. BORE BELOW ROADWAY SHALL BE PER ROADWAY OWNER REQUIREMENTS (SCDOT, LEXINGTON COUNTY, ETC.)

STANDARD WATER METER CONNECTION PLAN

NOT TO SCALE

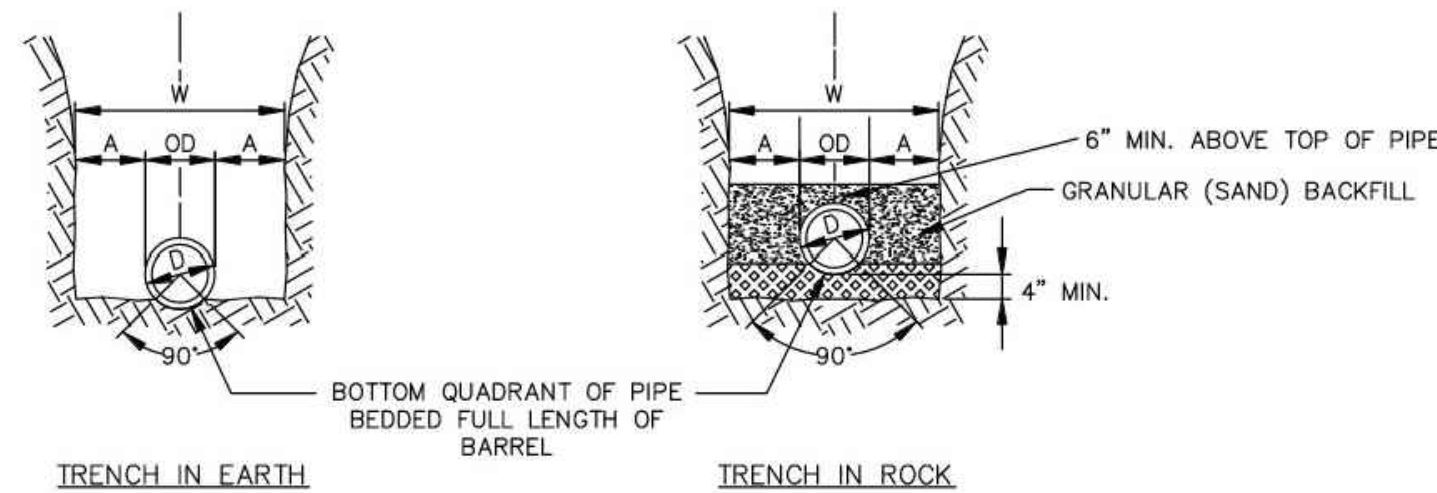
FILE NO. WL006



- NOTES:
1. FOR PVC PIPE: USE JCM # 406 COATED SADDLE WITH DOUBLE STAINLESS STEEL STRAPS OR APPROVED EQUAL. SELECT SADDLE SIZE BASED UPON PIPE SIZE BEING TAPPED AND TAP SIZE.
 2. FOR DUCTILE IRON PIPE: USE JCM # 408 COATED SADDLE WITH DOUBLE ELECTRO GALVANIZED STRAPS OR APPROVED EQUAL. SELECT SADDLE SIZE BASED UPON PIPE SIZE BEING TAPPED AND TAP SIZE.
 3. PLASTIC SERVICE PIPE AND TRACING WIRE SHALL HAVE CONTINUOUS RUN LENGTHS CONTAINING NO BREAKS OR JOINTS.
 4. JOINT MUNICIPAL WATER & SEWER COMMISSION FILE NO. WL003.

2" WATER LINE BLOW-OFF DETAIL

NOT TO SCALE



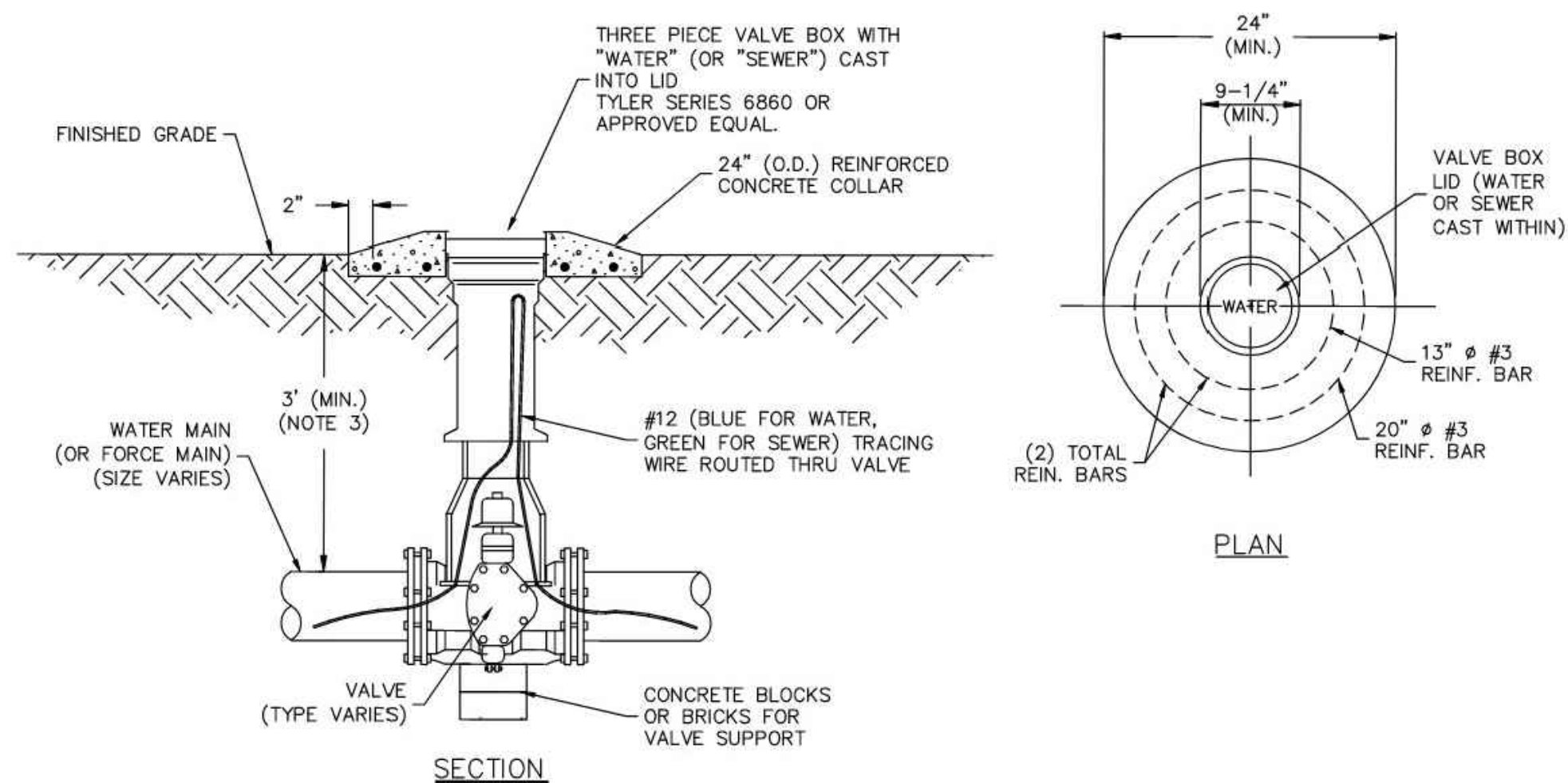
PIPE DIA. "D"	MAXIMUM "A"
6" TO 15"	8"
18" TO 21"	10"
24" TO 30"	12"
33" TO 42"	15"
48" & LARGER	18"

- NOTES:
1. BACKFILL TRENCHES WITH APPROVED BACKFILL TAMPED IN 6" LAYERS TO 1'-0" ABOVE PIPE.
 2. MAXIMUM TRENCH WIDTH "W" TAKEN AT TOP OF PIPE.
 3. REFER TO JMWSC STANDARD SPECIFICATION - EXCAVATION, TRENCHING, AND BACKFILLING FOR UTILITIES

FILE NO. WL011

STANDARD PIPE TRENCH BEDDING

NOT TO SCALE



- NOTES:
1. ALL VALVE BOXES IN OR OUT OF PAVEMENT MUST BE TRAFFIC RATED. IF TAP IS LOCATED BELOW EXISTING/PROPOSED PAVEMENT, CONCRETE COLLAR IS NOT REQUIRED, ASPHALTIC OR CONCRETE SURFACE MUST BE INSTALLED FLUSH WITH TOP OF VALVE BOX.
 2. REFER TO JMWSC STANDARD SPECIFICATION - WATER UTILITY DISTRIBUTION PIPING OR FORCE MAINS.
 3. VALVE BOX SHALL BE ADJUSTED AS REQUIRED TO ACHIEVE WATER MAIN OR FORCE MAIN DEPTH REQUIREMENTS. PROVIDE EXTENSIONS AS REQUIRED. EXTENSION BY USING PIPE IS NOT ALLOWED.
 4. VALVE NUT OPERATOR SHALL BE A MAXIMUM OF 3' BELOW GRADE. PROVIDE NUT OPERATOR EXTENSIONS AS REQUIRED.
 5. ALL VALVES SHALL OPEN LEFT (COUNTERCLOCKWISE DIRECTION).

FILE NO. WL014

VALVE BOX & PROTECTION RING

NOT TO SCALE

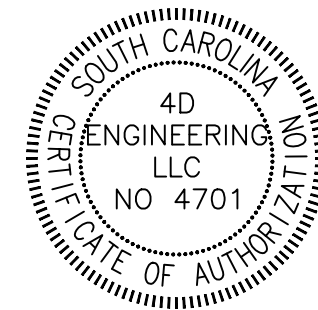
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REVISIONS

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1	ISSUED FOR BID	08/11/25
2	REVISED PER LEXINGTON COUNTY COMMENTS	09/02/25

SHEET

CONSTRUCTION DETAILS
(SHEET 2 OF 3)

PROJECT
LAND OF LAKES WATER LINE
REPLACEMENT
IN
LEXINGTON, SC

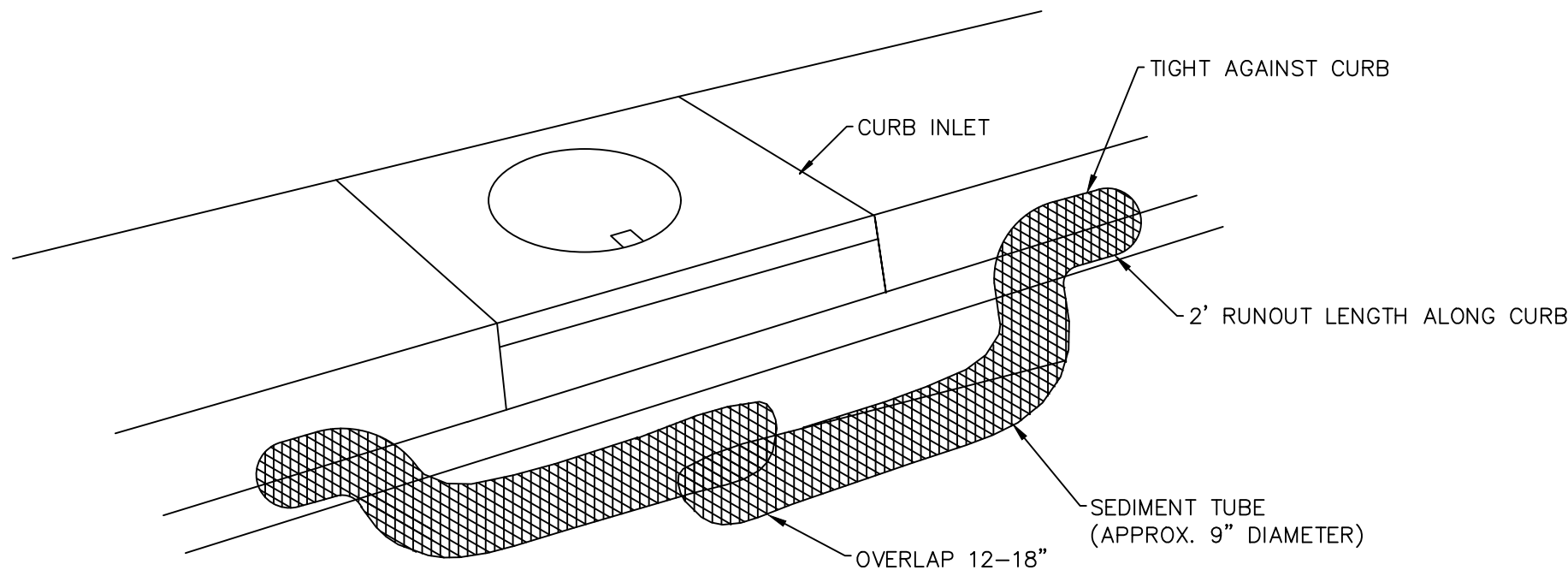
SCALE: NTS

PROJ NO: 24068

C12

JULY 31, 2025

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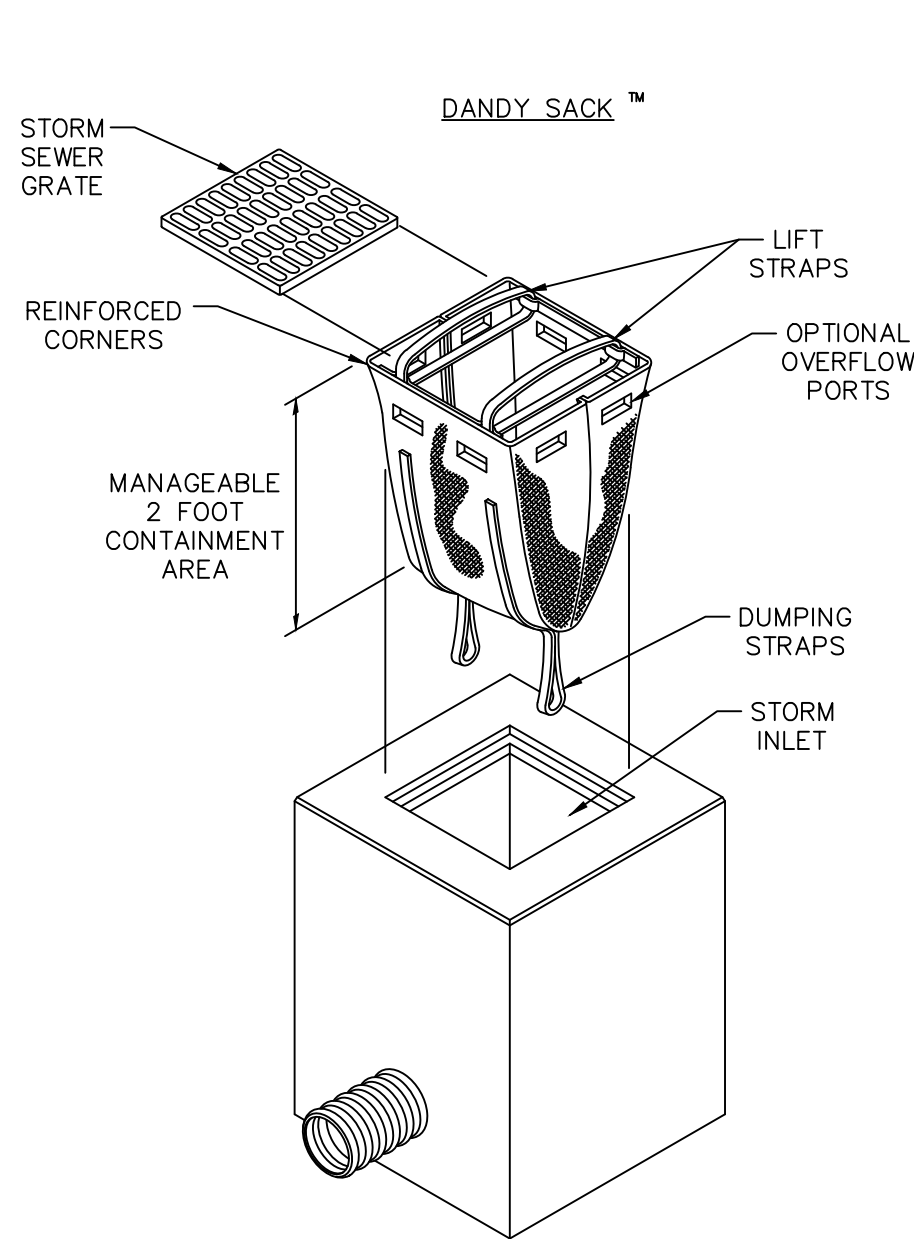


NOTES:

1. APPROVED SEDIMENT TUBES ARE 'TERRA TUBES' AND 'EROSION EEL'. CONTRACTOR SHALL SUBMIT ANY OTHER SEDIMENT TUBES TO ENGINEER FOR APPROVAL BEFORE USE.
2. PLACE AN ADEQUATE NUMBER OF SEDIMENT TUBES AROUND AN INLET TO PROVIDE COMPLETE PROTECTION. LEAVE APPROXIMATELY 3"-6" BETWEEN THE SEDIMENT TUBE AND THE INLET OR GRATE.
3. ENDS SHOULD OVERLAP 12-18 INCHES. SIDES SHOULD BE PRESSED TIGHTLY TO CURB.
4. USE SMALL ROCK BAGS TO HOLD TUBES IN PLACE IN PAVED AREAS. USE WOOD STAKES TO SECURE TUBES IN PLACE IN UNPAVED AREAS.
5. INSPECT INLET PROTECTION DEVICE BEFORE AND AFTER RAIN EVENTS, AND WEEKLY THROUGHOUT THE RAINY SEASON. DURING EXTENDED RAIN EVENTS, INSPECT AT LEAST ONCE EVERY 24 HOURS.
6. REMOVE AND PROPERLY DISPOSE OF ACCUMULATED SILT AND DEBRIS TO ALLOW FOR PROPER FUNCTION OF DEVICE.
7. COMPLY WITH ALL MANUFACTURERS SPECIFICATIONS AND INSTRUCTIONS.

SEDIMENT TUBE INLET PROTECTION DETAIL

NOT TO SCALE



DANDY SACK™
SPECIFICATIONS

NOTE: THE DANDY SACK™ WILL BE **MANUFACTURED IN THE U.S.A.** FROM A WOVEN MONOFILAMENT FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS:

REGULAR FLOW DANDY SACK™ (BLACK)

MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARV
GRAB TENSILE STRENGTH	ASTM D 4632	KN (LBS)	1.78 (400) x 1.40 (315)
GRAB TENSILE ELONGATION	ASTM D 4632	%	15 x 15
PUNCTURE STRENGTH	ASTM D 4833	KN (LBS)	0.67 (150)
MULLEN BURST STRENGTH	ASTM D 3786	KPA (PSI)	5506 (800)
TRAPEZOID TEAR STRENGTH	ASTM D 4533	KN (LBS)	0.67 (150) x 0.73 (165)
UV RESISTENCE	ASTM D 4355	%	90
APPARENT OPENING SIZE	ASTM D 4751	MM (US STD SIEVE)	0.425 (40)
FLOW RATE	ASTM D 4491	1/MIN/M² (GAL/MIN/FT²)	2852 (70)
PERMITTIVITY	ASTM D 4491	SEC⁻¹	0.90

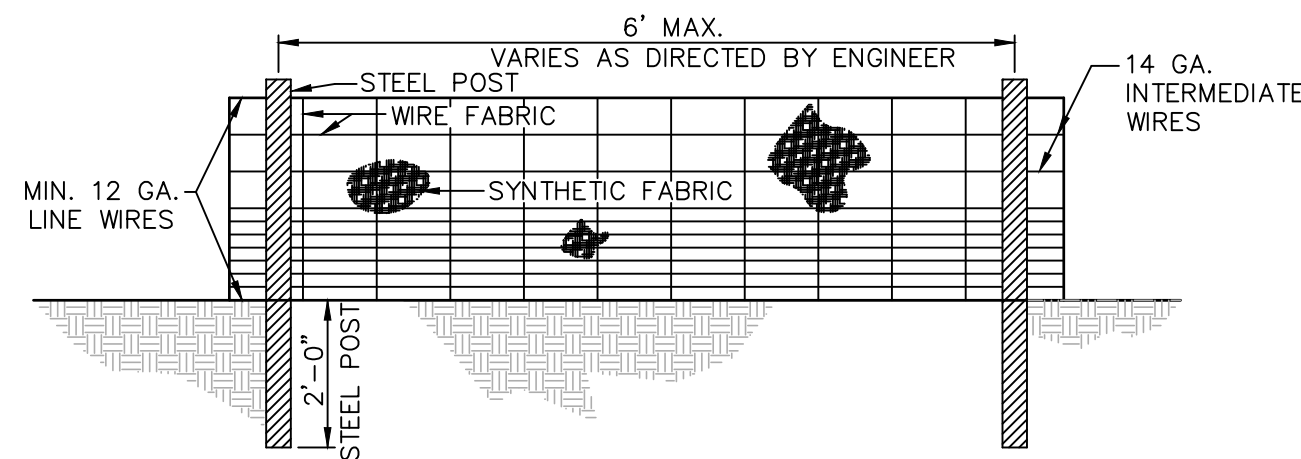
HI-FLOW DANDY SACK™ (SAFETY ORANGE)

MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARV
GRAB TENSILE STRENGTH	ASTM D 4632	KN (LBS)	1.62 (365) X 0.89 (200)
GRAB TENSILE ELONGATION	ASTM D 4632	%	24 X 10
PUNCTURE STRENGTH	ASTM D 4833	KN (LBS)	0.40 (90)
MULLEN BURST STRENGTH	ASTM D 3786	KPA (PSI)	3097 (450)
TRAPEZOID TEAR STRENGTH	ASTM D 4533	KN (LBS)	0.51 (115) X 0.33 (75)
UV RESISTENCE	ASTM D 4355	%	90
APPARENT OPENING SIZE	ASTM D 4751	MM (US STD SIEVE)	0.425 (40)
FLOW RATE	ASTM D 4491	1/MIN/M² (GAL/MIN/FT²)	5907 (145)
PERMITTIVITY	ASTM D 4491	SEC⁻¹	2.1

*NOTE: ALL DANDY SACKS™ CAN BE ORDERED WITH OUR OPTIONAL OIL ABSORBENT PILLOWS

INLET PROTECTION BELOW GRATE

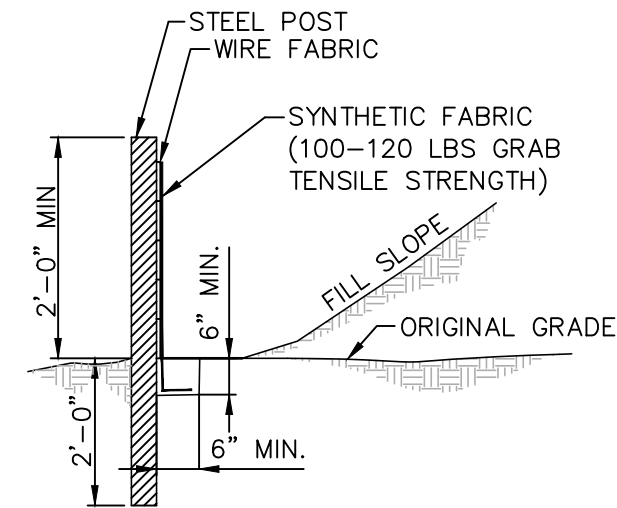
NOT TO SCALE



ELEVATION

NOTES:

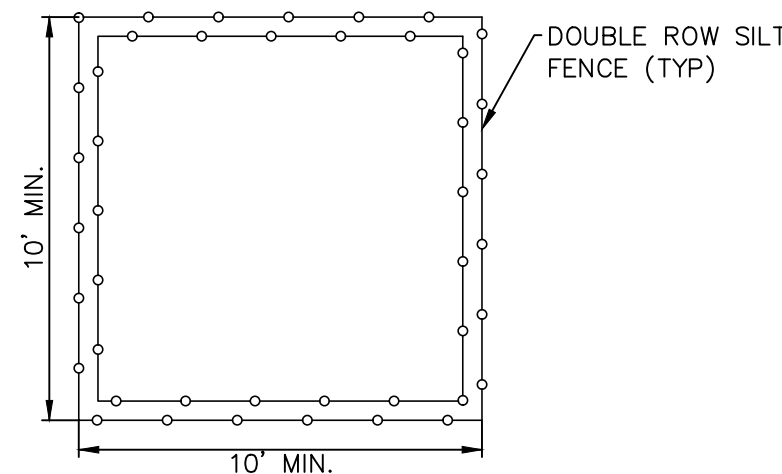
1. FENCE FABRIC SHALL BE A MINIMUM OF 24" IN WIDTH ABOVE GRADE AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
2. SYNTHETIC FABRIC SHALL BE FROM THE SCDOT APPROVED LIST OF MATERIALS.
3. STEEL POSTS SHALL BE 5'-0" IN HEIGHT AND BE OF THE SELF-FASTENER ANGLE STEEL TYPE.
4. CONTRACTOR SHALL PERFORM INSPECTION AND MAINTENANCE OF SILT FENCES WEEKLY AND FOLLOWING ALL SIGNIFICANT RAINFALL EVENTS, INSURING FENCES ARE ERECT AND CLEAR, AND REPLACING ALL TORN FENCING.
5. SILT FENCE SHALL BE CLEANED OR REPLACED WHEN SILT ACCUMULATION REACHES 1/3 THE HEIGHT OF THE FENCE.
6. FOR DOUBLE ROW SILT FENCE SPACE ADJACENT FENCES 3 FT. APART SO THAT SEDIMENT CAN BE REMOVED FROM BETWEEN THE FENCES.



SECTION

SILT FENCE WITH WIRE FABRIC DETAIL

NOT TO SCALE



NOTES:

1. EXISTING GROUND IN WASHOUT AREA TO BE LEVELED TO PREVENT WASHOUT WATER RUNOFF.
2. RESIDUAL CONCRETE IN CONCRETE TRUCKS SHALL BE WASHED OUT INTO SPECIFIED AREA. EXCESS CONCRETE SHALL THEN BE ALLOWED TO HARDEN AND HAULED OFF-SITE FOR DISPOSAL IN SOLID STATE.
3. REPAIR AND REPLACE SILT FENCE AS OFTEN AS NEEDED FOR PROPER OPERATION.

TEMPORARY CONCRETE WASHOUT AREA DETAIL

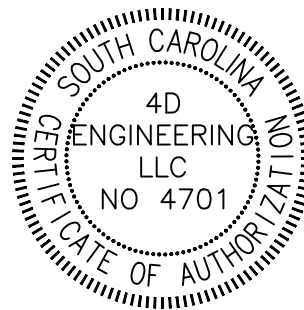
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REVISIONS

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1	ISSUED FOR BID	08/11/25
2	REVISED PER LEXINGTON COUNTY COMMENTS	09/02/25

SHEET

**CONSTRUCTION DETAILS
(SHEET 3 OF 3)**

PROJECT

**LAND OF LAKES WATER LINE
REPLACEMENT
IN
LEXINGTON, SC**

SCALE: 1"=10'

PROJ NO: 24068

C13

JULY 31, 2025

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Meter Size	TMS	Owner	Property Address	Long/Short Service		TOTAL:	117
3/4"	006532-02-010	TEAGUE, ROGER D & WANDA W	101 LAND OF LAKES BLVD	SHORT		LONG:	56
3/4"	006532-03-003	GOSMAN, NANCY R	102 LAND OF LAKES BLVD	LONG		SHORT:	61
3/4"	006532-02-005	PIETROWICZ, LISA LENO	105 LAND OF LAKES BLVD	SHORT			
3/4"	006532-03-002	WARNOCK REVOCABLE LIVING TRUST	106 LAND OF LAKES BLVD	LONG			
3/4"	006532-03-001	BYRD, CHRISTOPHER L & MADELEINE R	110 LAND OF LAKES BLVD	SHORT			
3/4"	N/A	N/A	LAND OF LAKES BLVD #RRIG	LONG			
3/4"	006532-04-005	HERNANDEZ, DANIEL A	103 LAND OF LAKES CIR	LONG			
3/4"	006532-04-010	ISELL, JEAN V TRUSTEE	107 LAND OF LAKES CIR	LONG			
3/4"	006532-02-002	MARTIN, KEVIN A	108 LAND OF LAKES CIR	SHORT			
3/4"	006532-04-004	CORLEY, SHARON D	111 LAND OF LAKES CIR	LONG			
3/4"	006532-02-003	SOX, GREGORY A & GROSS, B SUZANNE	112 LAND OF LAKES CIR	SHORT			
3/4"	006532-04-001	FAULK, JEFFREY J & CHERYL A	115 LAND OF LAKES CIR	LONG			
3/4"	006532-02-004	POLITE, LEANNE MYSTIQUE & DEVONTA R	116 LAND OF LAKES CIR	SHORT			
3/4"	006532-04-002	BRAZIEL, JAMES B & TERESA L	117 LAND OF LAKES CIR	LONG			
3/4"	006532-04-012	CLEMONS, ASHTON BRAZIEL	121 LAND OF LAKES CIR	LONG			
3/4"	006532-04-003	MCKEEVER FAMILY REVOCABLE TRUST	125 LAND OF LAKES CIR	LONG			
3/4"	006532-03-018	LEE, DIANNE WYDICK	128 LAND OF LAKES CIR	SHORT			
3/4"	006532-04-014	MONZEGLIO, LORI JEANNE & JAMES EDWARD	129 LAND OF LAKES CIR	LONG			
3/4"	006532-03-005	FORD, CHRISTEN N & JONES, KIRK	132 LAND OF LAKES CIR	SHORT			
3/4"	006532-03-004	TERRY, CARL PATRICK	134 LAND OF LAKES CIR	SHORT			
3/4"	006532-03-008	HILTZ, MATTHEW & HYDRICK, SARAH	136 LAND OF LAKES CIR	SHORT			
3/4"	006532-03-006	HARVEY, ERIC A	140 LAND OF LAKES CIR	SHORT			
3/4"	006532-04-015	GAHM, BRUCE F & BARBARA S	141 LAND OF LAKES CIR	LONG			
3/4"	006532-04-011	CURTIS, GEORGE JOSEPH	147 LAND OF LAKES CIR	LONG			
3/4"	006537-01-008	USHER, DONNA	224 MOCKINGBIRD CIR	SHORT			
3/4"	006537-02-013	KIRBY, BYRON	235 MOCKINGBIRD CIR	LONG			
3/4"	006537-02-014	HARRELL, BARBARA C	237 MOCKINGBIRD CIR	LONG			
3/4"	006537-02-015	HULETTE, JOSIE L	241 MOCKINGBIRD CIR	LONG			
3/4"	006537-02-016	CHILDERS, PAUL & WILSON, REBEKAH	243 MOCKINGBIRD CIR	LONG			
3/4"	006537-02-017	LIGHTFOOT, BUCKLEY D & PAMELA	245 MOCKINGBIRD CIR	LONG			
3/4"	006537-02-018	COMMUNITY ASSISTANCE PROVIDER	247 MOCKINGBIRD CIR	LONG			
3/4"	006537-02-019	INABINET, CLAYTON W	249 MOCKINGBIRD CIR	LONG			
3/4"	006537-01-009	LAWRIE, FARRAH	250 MOCKINGBIRD CIR	SHORT			
3/4"	006537-02-020	JOHNSON, ALEXANDRIA N & FALLAW, MICHELLE	251 MOCKINGBIRD CIR	LONG			
3/4"	006537-01-010	INGERSOLL, TIFFANY M & JAMES W	252 MOCKINGBIRD CIR	SHORT			
3/4"	006537-02-021	HUMBLE, KAREN ETALS	253 MOCKINGBIRD CIR	LONG			
3/4"	006537-01-011	MEADE, KENNETH MICHAEL & JUNARA R	254 MOCKINGBIRD CIR	SHORT			
3/4"	006537-02-022	SHULER, ASHLEY W	255 MOCKINGBIRD CIR	LONG			
3/4"	006537-01-012	WILSON, KEVIN P	256 MOCKINGBIRD CIR	SHORT			
3/4"	006537-02-023	DUGGAN, KIMBERLY E & GERMAN, WILLIAM W	257 MOCKINGBIRD CIR	LONG			
3/4"	006537-01-013	MALLEY, GRACE ELIZABETH	258 MOCKINGBIRD CIR	SHORT			
3/4"	006537-02-024	CURTIS, RICHARD C JR & LISA K	259 MOCKINGBIRD CIR	LONG			
3/4"	006537-01-014	BAISLEY, MICHAEL T & ALANA PATRICIA	260 MOCKINGBIRD CIR	SHORT			
3/4"	006537-02-025	LAPIERRE, GEORGE R JR & ROSE C	261 MOCKINGBIRD CIR	LONG			
3/4"	006537-02-026	WATTS, LUCIUS A	263 MOCKINGBIRD CIR	LONG			
3/4"	006537-02-027	HILL, TODD M & ANNA MARSHA F	265 MOCKINGBIRD CIR	LONG			
3/4"	006537-02-028	COFER, RANDALL & COREY C	267 MOCKINGBIRD CIR	LONG			
3/4"	006537-03-001	JEFFCOAT, ROBERT J	269 MOCKINGBIRD CIR	LONG			
3/4"	006537-01-015	MILAN-ROBINSON, CHARITY	270 MOCKINGBIRD CIR	SHORT			
3/4"	006537-03-002	HUTTO, BERTHA L	271 MOCKINGBIRD CIR	LONG			
3/4"	006537-03-003	BUSH, JOSHUA & PEACE, GRETCHEN	273 MOCKINGBIRD CIR	SHORT			
3/4"	006532-05-001	KIRCHNER, BETTY J	105 MOCKINGBIRD CT	SHORT			

3/4"	006532-05-011	KUHN, JOHN SCOTT	106 MOCKINGBIRD CT	SHORT			
3/4"	006532-05-023	JAMES, MIRANDA K	107 MOCKINGBIRD CT	LONG			
3/4"	006532-05-024	BARAHONA, HUGO & HEATHER	109 MOCKINGBIRD CT	LONG			
3/4"	006532-05-003	LALASHIUS, JOSHUA C & AUBREY R	110 MOCKINGBIRD CT	LONG			
3/4"	006532-05-025	CHAPMAN, WILLIAM CHANDLER	111 MOCKINGBIRD CT	LONG			
3/4"	006532-05-002	PITTS, PASCAL MARK & NANCY S TRUSTEES	112 MOCKINGBIRD CT	SHORT			
3/4"	006532-01-002	HARLEY, SEAN R & MAGGIE CORINA DAY	101 MOCKINGBIRD DR	SHORT			
3/4"	006532-01-003	JOY JR, JAMES F	105 MOCKINGBIRD DR	SHORT			
3/4"	006532-02-001	PEARCE, DENNIS W	106 MOCKINGBIRD DR	LONG			
3/4"	006532-01-012	CAMPOS, RANULFO & CARRILLO, KAYLA	109 MOCKINGBIRD DR	SHORT			
3/4"	006532-02-009	COMMUNITY ASSISTANCE PROVIDER	110 MOCKINGBIRD DR	SHORT			
3/4"	006532-01-001	HARRIS, JUSTIN LEE	113 MOCKINGBIRD DR	SHORT			
3/4"	006532-01-004	BIELING, MISTY R	117 MOCKINGBIRD DR	SHORT			
3/4"	006532-01-005	CHAPMAN, WILLIAM ERIC & MICHELE M	121 MOCKINGBIRD DR	SHORT			
3/4"	006532-01-006	LAURSEN, WILLIAM A & TAYLOR M	123 MOCKINGBIRD DR	SHORT			
3/4"	006532-04-013	BESANCON, SHARON	124 MOCKINGBIRD DR	LONG			
3/4"	006532-01-007	HARRIS, LATASHA	127 MOCKINGBIRD DR	SHORT			
3/4"	006532-04-007	WEICHEL, MARGARET D	128 MOCKINGBIRD DR	LONG			
3/4"	006532-01-008	SMITH, AJA	131 MOCKINGBIRD DR	SHORT			
3/4"	006532-01-009	CROMER, REBECCA L	135 MOCKINGBIRD DR	SHORT			
3/4"	006532-05-005	JONES, DANIEL AARON	138 MOCKINGBIRD DR	LONG			
3/4"	006532-05-004	ANDERSON, ROBERT SHAWN & TAMARA MICHELLE	142 MOCKINGBIRD DR	LONG			
3/4"	006532-01-010	JEFFCOAT, WENDY	143 MOCKINGBIRD DR	SHORT			
3/4"	006532-05-010	EDWARDS, JEANNIE	148 MOCKINGBIRD DR	LONG			
3/4"	006532-01-011	WINGARD, STEPHEN C JR	149 MOCKINGBIRD DR	SHORT			
3/4"	006537-02-001	YVONNE D DANFORD REVOCABLE LIVING TRUST	151 MOCKINGBIRD DR	SHORT			
3/4"	006537-02-002	NERI-NUNEZ, JANET	205 MOCKINGBIRD DR	SHORT			
3/4"	006537-01-001	LIVINGSTON JR , STANLEY C ETALS	206 MOCKINGBIRD DR	SHORT			
3/4"	006537-02-003	REIGLE, KELSEY B	207 MOCKINGBIRD DR	SHORT			
3/4"	006537-01-002	CASTILLO, ELOI MORALES ET ALS	210 MOCKINGBIRD DR	LONG			
3/4"	006537-02-004	KING, BRYAN	211 MOCKINGBIRD DR	SHORT			
3/4"	006537-01-003	CHAMBERS, OLIVIA O	212 MOCKINGBIRD DR	LONG			
3/4"	006537-02-005	NEWMAN, RYAN E & MICHELLE L YORK	213 MOCKINGBIRD DR	SHORT			
3/4"	006537-01-004	SIMMONS, JESSE M & STONE, JENNIFER L	214 MOCKINGBIRD DR	LONG			
3/4"	006537-02-006	SPINELLA, TED J & NANCY C	215 MOCKINGBIRD DR	SHORT			
3/4"	006537-01-005	NEVITT, CORA H LIFE ESTATE	216 MOCKINGBIRD DR	LONG			
3/4"	006537-02-007	STEWART, JAMES W & SHARLENE B	219 MOCKINGBIRD DR	SHORT			
3/4"	006537-01-006	STALEY, SHANIEKA CAROLINE	220 MOCKINGBIRD DR	LONG			
3/4"	006537-02-008	COX, JASON C & LATOYA M	221 MOCKINGBIRD DR	SHORT			
3/4"	006537-01-007	NINE, RANDALL	222 MOCKINGBIRD DR	SHORT			
3/4"	006537-02-009	BSFR I OWNER I L P	225 MOCKINGBIRD DR	LONG			
3/4"	006537-02-010	ZIMMERMAN, MADELINE S & MARK D JR	227 MOCKINGBIRD DR	LONG			
3/4"	006537-02-011	COTTON, JAMES E & SHERRI R	229 MOCKINGBIRD DR	SHORT			
3/4"	006537-02-012	SEASE, SCOTT KYLE & HEATON, AMANDA M	233 MOCKINGBIRD DR	SHORT			
3/4"	006532-02-008	LABOY, JOEL & RACHEL D	881 OLD ORANGEBURG RD	LONG			
3/4"	006532-05-006	BURNS, CLARENCE W & BARBARA P	103 W LAKE DR	SHORT			
3/4"	006532-04-016	DAVIS, CHRISTOPHER AARON	106 W LAKE DR	LONG			
3/4"	006532-05-012	HAGGERTY, LOUISE & RYMOND	107 W LAKE DR	SHORT			
3/4"	006532-04-017	SEASE, ABIGAYLE	108 W LAKE DR	LONG			
3/4"	006532-05-013	THOMAS, CHARLES E & TYLER, KELLY	111 W LAKE DR	SHORT			
3/4"	006532-04-006	DIVERSIFIED RESIDENTIAL HOMES 3 LLC	112 W LAKE DR	LONG			
3/4"	006532-05-014	STUART, KENNETH W & TAMMY J	115 W LAKE DR	SHORT			
3/4"	006532-04-008	HILL, MARK E & MEGHAN L	116 W LAKE DR	LONG			

3/4"	006532-05-015	JOY, FREDDIE L & ROBIN G	119 W LAKE DR	SHORT			
3/4"	006532-04-009	ACOSTA ZAPATA, PEDRO JOSE	120 W LAKE DR	LONG			
3/4"	006532-05-016	MERRITT, MICHAEL D & VELVET J	121 W LAKE DR	SHORT			
3/4"	006532-05-007	LINDLEY, JOSHUA DAVID	125 W LAKE DR	SHORT			
3/4"	006532-05-008	MERRITT, JOANNE M	129 W LAKE DR	SHORT			
3/4"	006532-05-009	BRUCKS, JASON & BELINDA R	131 W LAKE DR	SHORT			
3/4"	006532-03-007	FINLEY, GERALD SCOT	132 W LAKE DR	SHORT			
3/4"	006532-05-017	RISINGER, MICHAEL RYAN	135 W LAKE DR	SHORT			
3/4"	006532-03-009	STOKES, ANTHONY DWIGHT & NIDSA L	136 W LAKE DR	LONG			
3/4"	006532-05-018	MILLER, MICHAEL SHANE & CHRISTY L	137 W LAKE DR	SHORT			
3/4"	006532-03-010	FULMER, B C	140 W LAKE DR	LONG			
3/4"	006532-05-019	DAVIES, PETER E TRUSTEE	141 W LAKE DR	SHORT			

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J. P. Wainwright

STATE OF SOUTH CAROLINA
OFFICE OF AUTHORITY

#	DESCRIPTION	DATE
1	ISSUED FOR BID	08/11/25
2	REVISED PER LEXINGTON COUNTY COMMENTS	08/02/25

SHEET

WATER METER
INFORMATION

PROJECT

LAND OF LAKES WATER LINE
REPLACEMENT
IN
LEXINGTON, SC

SCALE: 1"=10'

PROJ NO: 24068

C14

JULY 31, 2025