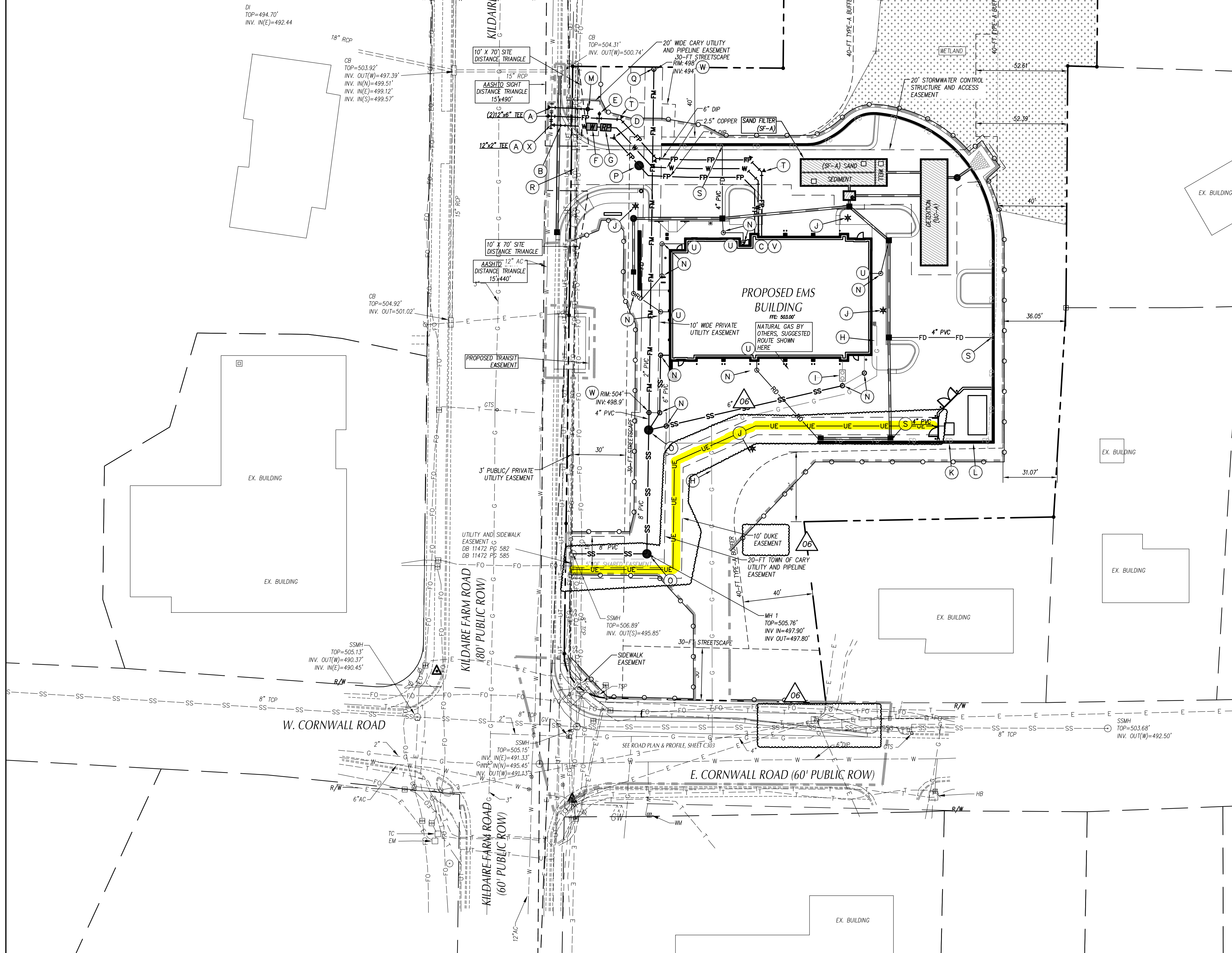


TOWN OF CARY JOINT AND FITTING RESTRAINT TABLE

	4"	6"	8"
90° Horizontal	59'	84'	108'
90° Vertical Up	59'	84'	108'
90° Vertical Down	91'	130'	168'
45° Horizontal	24'	35'	45'
45° Vertical Up	24'	35'	45'
45° Vertical Down	38'	54'	70'
22½° Horizontal	12'	17'	21'
22½° Vertical Up	12'	17'	21'
22½° Vertical Down	18'	26'	33'
11¼° Horizontal	6'	8'	11'
11¼° Vertical Up	6'	8'	11'
11¼° Vertical Down	9'	13'	17'
	4"	6"	8"
Tee (<i>Restrain the Branch</i>)	89'	4" branch – 88' 6" branch – 128'	4" branch – 87' 6" branch – 127' 8" branch – 166'
Reducer (<i>Restrain Larger Pipe</i>)	N/A	67'	8" x 4" – 121' 8" x 6" – 70'
Dead Ends (Caps and Plugs) & In-line Valves	91'	130'	168'



UTILITY LEGEND

	EXISTING	PROPOSED
CHILLED WATER	-----CW-----	-----CW-----
ELECTRICAL (OVERHEAD)	-----E-----	-----E-----
ELECTRICAL (UNDERGROUND)	-----UE-----	-----UE-----
FOUNDATION DRAIN	-----FD-----	-----FD-----
GAS	-----G-----	-----G-----
SANITARY SEWER	-----SS-----	-----SS-----
TELEPHONE (OVERHEAD)	-----T-----	-----T-----
TELEPHONE (UNDERGROUND)	-----UT-----	-----UT-----
WATER	-----W-----	-----W-----
ROOF DRAIN	-----RD-----	-----RD-----
FIRE PROTECTION	-----FP-----	-----FP-----
STORM DRAIN	=====	=====
TREE PROTECTION FENCING, SEE EROSION CONTROL PLANS		
CONSTRUCTION LIMITS		
LIGHT POLE	☆ LP	☆
UTILITY POLE	PP	●
MANHOLE	⊙ MH	⊙
CLEAN OUT	⊙ CO	⊙
DROP INLET/CATCH BASIN	⊙ DI, CB	⊙
FIRE HYDRANT	⊙ FH	⊙
WATER VALVE	⊙ WV	⊙
POST INDICATOR VALVE (PIV)		⊙
FIRE DEPARTMENT CONNECTION (FDC)		⊙
THRUST BLOCKING		⊙
SANITARY SEWER STRUCTURE IDENTIFICATION		⊙

GENERAL NOTES-UTILITY

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF CARY AND NCDOT STANDARDS, SPECIFICATIONS AND DETAILS.
- THE DESIGN MEETS ALL CURRENT TOWN OF CARY STANDARD SPECIFICATIONS AND DETAILS EXCEPT WHERE SPECIFICALLY NOTED.
- INSTALL WATERMANS WITH A COVER OF NO LESS THAN 4-FT.
- INSTALL SEWER MAINS WITH A COVER OF NO LESS THAN 4-FT TO FINISH GRADE IN NON-TRAFFIC AREAS, 4-FT TO FINISH GRADE IN TRAFFIC AREAS.
- INSTALL ALL UTILITIES TO PROVIDE REQUIRED CLEARANCES AS INDICATED IN THE SPECIFICATIONS.
- WATERLINES AND SEWER MAINS SHALL BE INSTALLED WITH A MINIMUM HORIZONTAL CLEARANCE OF 10-FT.
- SEWER MAINS SHALL BE INSTALLED WITH A MINIMUM VERTICAL CLEARANCE OF 24-IN TO STORM DRAINAGE PIPES.
- COORDINATE AND SCHEDULE INSTALLATION OF ALL UTILITIES WITH OTHER PRIME CONTRACTORS, UTILITY COMPANIES AND OTHER TRADES INCLUDING BUT NOT LIMITED TO: NATURAL GAS, ELECTRICITY, TELEPHONE, AND CATV.
- VERIFY EXISTING CONDITIONS AND CONNECTIONS TO EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT IF ANY DISCREPANCIES ARE DISCOVERED.
- CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES DURING CONSTRUCTION AND SHALL MAKE REPAIRS AT NO EXPENSE TO THE OWNER.
- ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE NCSBC AND OSHA REQUIREMENTS.
- THE CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY OF ALL UTILITY AND STORM DRAINAGE IMPROVEMENTS FOLLOWING CONSTRUCTION.
- CONTRACTOR SHALL PHASE DEMOLITION AND NEW CONSTRUCTION TO ENSURE UNINTERRUPTED ACCESS AND UTILITY SERVICE TO ADJACENT FACILITIES. COORDINATE SHORT-TERM, OFF-HOUR, TEMPORARY SHUT-DOWNS WITH THE OWNER.
- SEE GENERAL NOTES ON EXISTING CONDITIONS AND DEMOLITION PLAN FOR REQUIREMENTS FOR REMOVAL AND PATCHING OF PAVEMENT FOR UTILITY INSTALLATION.
- ALL ROOF DRAINS SHALL BE 6" PVC (SCH 40) @ 1.04% MIN. SLOPE UNLESS INDICATED OTHERWISE. USE DUCTILE IRON WHEN COVER IS LESS THAN 24-IN.
- ALL SANITARY SEWER SERVICES SHALL BE 6" PVC (SCH 40) @ 1.04% MIN. SLOPE UNLESS INDICATED OTHERWISE. USE DUCTILE IRON WHEN COVER IS LESS THAN 4-FT.
- ALL CONDENSATE LINES SHALL BE CONNECTED TO STORM DRAINAGE SYSTEM.
- NO WORK SHALL BE PERFORMED ON RIGHT-OF-WAYS OR ADJACENT PROPERTIES UNTIL THE OWNER NOTIFIES CONTRACTOR IN WRITING OF PROCUREMENT OF APPROPRIATE PERMITS, EASEMENTS, AGREEMENTS, OR RIGHTS-OF-WAY.
- ALL UTILITY OR OTHER PIPES, WIRES, CONDUITS, CABLES, AND FIXTURES, INCLUDING BUT NOT LIMITED TO ELECTRICAL, GAS, TELEPHONE AND TELECOMMUNICATIONS LINES, FIBER OPTIC CABLES AND THE LIKE, SHALL BE INSTALLED UNDERGROUND, EXCEPT FOR TRANSMISSION LINES WITH A VOLTAGE OF 115KV OR GREATER, OR IN SITUATIONS WHERE SUCH PLACEMENT IS PROHIBITED OR DETERMINED TO BE IMPRACTICAL BY THE ZONING BOARD OF ADJUSTMENT IN A QUASI-JUDICIAL HEARING.
- MARKING TAPE SHALL BE INSTALLED CONTINUOUSLY AND LONGITUDINALLY ALONG ALL WATER MAINS/ WATER SERVICES/ SANITARY SEWER MAINS FOR NEW CONSTRUCTION AND FOR ANY REPAIR OR RETROFIT CONSTRUCTION USING OPEN TRENCH METHODS. FOR WATER INFRASTRUCTURE, NON-PROGRAMMABLE MARKING TAPE ARE REQUIRED AT THE ENDS OF ALL CASING PIPE AND AT REDUCERS. THEY SHALL ALSO BE INSTALLED ALONG AND DIRECTLY ABOVE ALL WATER MAINS IN CONDITIONS WHERE MARKING TAPE CANNOT BE INSTALLED DUE TO RESTRICTIONS OR CONFLICTS.
- IF THE PROJECT IS TO INCLUDE HYDRAULICALLY OPERATED ELEVATOR(S), AND THE SUMP PUMP OR DRAIN IS PROPOSED TO CONNECT TO SANITARY SEWER, AN OIL/WATER SEPARATOR WITH A LIQUID CAPACITY EQUALING AT LEAST 1.5 TIMES THE ELEVATOR(S) HYDRAULIC FLUID CAPACITY WILL BE REQUIRED. SITE PLANS MUST INCLUDE THE FOLLOWING COMMENT: "SEE BUILDING PLUMBING PLANS FOR ELEVATOR SUMP AND OIL/WATER SEPARATOR DETAILS. A PLUMBING PERMIT WILL BE REQUIRED FOR INSTALLATION OF THE OIL/WATER SEPARATOR AND ANY ASSOCIATED SUMP PUMP PLUMBING IF INSTALLED DURING THE SITE DEVELOPMENT PHASE OF CONSTRUCTION."
- APPROVAL AND PERMITTING OF THIS UTILITY PLAN COVERS PUBLIC INFRASTRUCTURE ONLY. WHILE PRIVATE UTILITY LINES MAY BE SHOWN HEREON FOR REFERENCE, THEY ARE ALLOWED ONLY AFTER OBTAINING A SEPARATE PERMIT FOR PRIVATE UTILITIES.
- IF THERE WILL BE A TRASH COMPACTOR ON THE SITE A CONNECTION TO SANITARY SEWER AND A COVERED DUMPSTER SITE WILL BE REQUIRED.

KEY NOTES

- | | |
|--|---|
| (A) TAPPING SLEEVE AND VALVE, SEE DETAIL SHEET C801 | (N) STANDARD CLEANOUT, SEE DETAIL SHEET C802. |
| (B) GATE VALVE AND VALVE BOX, SEE DETAIL SHEET C801 | (O) SANITARY SEWER MANHOLE, SEE DETAIL SHEET C804. |
| (C) REDUCED PRESSURE ZONE DETECTOR ASSEMBLY (RPDA) LOCATED IN THE DEDICATED SPRINKLER ROOM. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION. | (P) STANDARD 4-FT MANHOLE RING AND COVER, COVER SHALL BE LABELED WATER, SEE DETAIL SHEET C804. |
| (D) FIRE DEPARTMENT CONNECTION, SEE SHEET C801. | (Q) TEMPORARY CLEANOUT TO BE CAPPED FOR FUTURE CONNECTION, TO REMAIN AFTER COMPLETION OF CONSTRUCTION. |
| (E) POST INDICATOR VALVE W/ TAMPER SWITCH, SEE DETAIL SHEET C801. | (R) CONFIRM EXISTING UTILITY LOCATIONS AT NEW DRIVEWAY. COORDINATE RELOCATION AS REQUIRED. |
| (F) 2" DOMESTIC WATER METER, SEE DETAIL SHEET C801 | (S) FOUNDATION DRAIN CONNECTION, SEE STRUCTURAL PLANS FOR WALL DETAIL. |
| (G) WILKINS 375 2-IN REDUCED PRESSURE BACKFLOW ASSEMBLY (RPA). SEE DETAIL SHEET C801 AND SPECS. | (T) REACTION BLOCKING, TYP, SEE DETAIL SHEET C09.03. |
| (H) NATURAL GAS METER SHOWN FOR COORDINATION ONLY, SEE MEP PLANS | (U) EXTEND UTILITY TO WITHIN 5'-0" OF BUILDING WALL OR AS INDICATED ON PLUMBING PLANS. REFER TO PLUMBING PLANS FOR LOCATION AND INVERTS. |
| (I) OIL/WATER SEPARATOR, SEE MEP PLANS | (V) EXTEND WATER MAIN TO 12-IN ABOVE FINISH FLOOR FOR FIRE PROTECTION/PLUMBING CONNECTION, SEE DETAIL SHEET C09.03. REFER TO FIRE PROTECTION/PLUMBING PLANS FOR EXACT LOCATION. |
| (J) DUKE ENERGY LIGHT POLE, SEE DUKE LIGHTING PLAN. SHOWN FOR REFERENCE ONLY. | (W) WATER TIGHT CLEANOUT. |
| (K) TRANSFORMER, SEE MEP PLANS | (X) CORPORATION STOP, SEE SPECIFICATIONS. |
| (L) GENERATOR, SEE MEP PLANS | |
| (M) FIRE HYDRANT ASSEMBLY, SEE DETAIL SHEET C801 | |

GRAPHIC SCALE

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Cary, NC
Development Plan
23-DP-4187

SITE UTILITY PLAN

DATE 10-07-2024

ADW PROJECT NO 21046

CLH PROJECT NO 22-106

REVISIONS

NO	DATE	DESCRIPTION:
06	08-22-25	1ST TO CONST PLAN REV

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SHEET NUMBER

C501