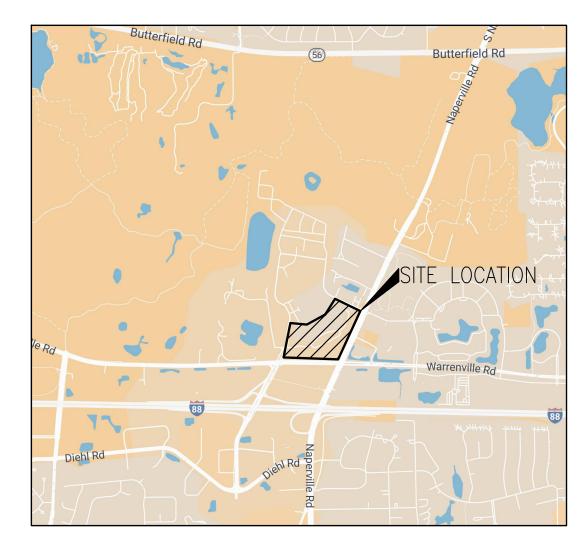
096

SITE IMPROVEMENT PLANS

FOR

1960 WEST LUCENT LANE

NAPERVILLE, ILLINOIS **KARIS CRITICAL**



BENCHMARK & LOCATIONS:

REFERENCE BENHMARK(S): CITY OF NAPERVIKLLE SURVEY MONUMENT STATION NO. 703

BERNSTEN 3D TOP SECURITY MONUMENT. CONSISTING OF A 9/16" DIAM. STAINLESS STEEL DATUM POINT ON THREADED 9/16" X 4' LONG ROD TOTALING (8') IN LENGTH WITH GREASED TOP SECURITY SLEEVE ENCLOSED IN SAND AND 6" PVC PIPE WITH BMAC 6 ALUMINUM ACCESS COVER.

ELEVATION = 780.31 (NAVD 1988)

SITE BENCHMARK(S):

SITE BENCHMARK 1 (SBM 1) (JHA CP 2) - CROSS NOTCH CUT IN TOP OF CURB

SBM 1 IS A CROSS NOTCH CUT IN THE TOP OF CONC. CURB ON THE W. SIDE OF W. LUCENT LN./FREEDOM DR. +-610' N. OF BARKEI LN. NEAR THE NW COR. OF OUR SITE (W. SIDE OF STREET). "X" IS OPP. THE NW'LY MOST ENTRANCE NEAR THE NW. COR. OF OUR SITE @ 1960 NAPERVILLE WHEATON RD. "X" IS +-0.20'E. OF THE W. BACK OF CURB OF W. LUCENT LN. (NEAR NW. COR. OF SITE)

ELEVATION = 739.86

SITE BENCHMARK 2 (SBM 2) (JHA CP 3) - MAG NAIL SET IN ASPH.

SITE BENCHMARK 2 IS A MAG NAIL SET IN THE ASPH. PATH RUNNING E-W IN THE N'LY. R.O.W. OF WEATHERBEE LN.(AKA LUCENT LN.) NEAR THE NW. COR. OF THE INTERSECTION OF WEATHERBEE LN. & NAPERVILLE RD. NAIL IS +-210' NW. OF THE CENTERLINE OF NAPERVILLE RD. NAIL IS +-7.30' NW. OF THE W. SIDE OF THE DRIVEWAY ENT. 2104-2114 WEATHERBEE LN. (MULTI FAMILY UNITS). NAIL IS +-0.50' NE. OF THE S'LY. EDGE OF PAVE OF THE ASPH. PATH. (NEAR NE. COR. OF SITE)

ELEVATION = 738.01

SITE BENCHMARK 3 (SBM 3) (JHA CP 4) - MAG NAIL SET IN ASPH.

SITE BENCHMARK 3 IS A MAG NAIL SET IN THE ASPH. PATH RUNNING N-S IN THE W'LY. R.O.W. OF NAPERVILLE RD. NEAR THE NW. COR. OF THE INTERSECTION OF NAPERVILLE RD. & WARRENVILLE RD. NAIL IS +-150' NE. OF THE CENTERLINE OF WARRENVILLE RD. NAIL IS +-26' NE. OF A TRAFFIC SIGNAL POST ON A PIECE OF CONC. WALK CONNECTING THE ASPH PATH TO THE CROSSWALK AT THE BACK OF CURB AND NAIL IS +-0.40' W. OF THE E'LY. EDGE OF PAVEMENT OF THE ASPH. PATH. (NEAR THE SE. COR. OF SITE)

ELEVATION = 736.11

SITE BENCHMARK 4 (SBM 4) (JHA CP 1) - MAG NAIL SET IN ASPH

SBM 4 IS A MAG NAIL SET IN THE ASPH. PATH RUNNING E-W ALONG THE N. R.O.W. OF WARRENVILLE RD. NEAR THE SW. COR. OF OUR SITE, ALSO BEING NEAR THE NE. COR. OF THE INTERSECTION OF WARRENVILLE RD. & LUCENT LN./FREEDOM DR. NAIL IS +-57' E. OF THE POINT WHERE THE W. END OF THE ASPH. PATH CONNECTS TO THE CONC. WALK AT THAT INTERSECTION. NAIL IS +-41' NE. OF A STORM MANHOLE IN THE RIGHT TURN LANE TO TURN FROM WARRENVILLE RD. ON TO LUCENT LN./FREEDOM DR. (NEAR SW. COR. OF

ELEVATION = 755.74

KARIS

	_		LEGEND	
A	BBREVIATION LEGEND	<u>PROPOSED</u>	DESCRIPTION	EXISTING
ADA	AMERICANS WITH DISABILITIES ACT		STORM SEWER	
B/	BOTTOM OF		WATER MAIN WITH SIZE	8W
BC	BACK OF CURB ELEVATION	_	SANITARY SEWER	
C-C	CENTER TO CENTER SPACING		RIGHT-OF-WAY/PROPERTY LINE	
C&G	CURB AND GUTTER	 842	CONTOUR	
СВ	CATCH BASIN	805.25	SPOT GRADE	+ 701.30
DEP	DEPRESSED	×	SANITARY MANHOLE	+ ©
DIP	DUCTILE IRON PIPE	•	STORM MANHOLE	©
DWS	DETECTABLE WARNING STRIP		STORM INLET	
EP	EDGE OF PAVEMENT ELEVATION	=	STORM CATCH BASIN	0
EX	EXISTING	¥	FIRE HYDRANT	A
FH	FIRE HYDRANT	•	PRESSURE CONNECTION	⊕
FR	FUTURE	•	GATE VALVE W/VAULT	•
GR	GRADE RING ELEVATION	<u> </u>	LIGHT POLE	&
HC	HANDICAPPED	<u>^↑`</u>	STREET LIGHT W/MAST	•
HWL	POND HIGH WATER LEVEL	0	UTILITY POLE	0
1	UTILITY INVERT ELEVATION	XX	SILT FENCE	O
МН	MANHOLE	^^	OVERFLOW DIRECTION	
NWL	POND NORMAL WATER LEVEL	•^-	SURFACE/DITCH FLOW DIRECTION	
PC	PRESSURE CONNECTION	L	ROAD SIGN	Ь
PCC	PORTLAND CEMENT CONCRETE		CURB & GUTTER	
PR	PROPOSED		DEPRESSED CURB FOR RAMP/DRIVEWAY	
PVC	POLYVINYL CHLORIDE PIPE	TF	TOP OF FOUNDATION	
R	UTILITY STRUCTURE RIM ELEVATION	GF	GARAGE FLOOR, AT REAR OF GARAGE	
R&R	REMOVE AND REPLACE	TD	TOP OF CURB, DEPRESSED	
RCP	REINFORCED CONCRETE PIPE	TW	TOP OF RETAINING WALL	
STM	STORM SEWER	R=	RIM FOR STRUCTURES	
T/	TOP OF	HWL/NWL	HIGH/NORMAL WATER LEVEL	
TC	TOP OF CURB ELEVATION	T	TRANSFORMER	
TDC	TOP OF DEPRESSED CURB ELEVATION	——————————————————————————————————————	FENCE LINE	X
TF	TOP OF FOUNDATION ELEVATION		GUARD RAIL	^
TW	TOP OF RETAINING WALL ELEVATION		FORCE MAIN	
VCP	VITRIFIED CLAY PIPE		UNDERGROUND TELEPHONE	T
VIF	VERIFY IN FIELD	E	UNDERGROUND ELECTRIC -	
Vv	VALVE VAULT	——————————————————————————————————————	OVERHEAD ELECTRIC -	
W/	WITH	——————————————————————————————————————	UNDERGROUND GAS LINE	——————————————————————————————————————
/M or WTR			UNDERGROUND GAS LINE	<u>G</u>

WARNING



CALL BEFORE

(48 HOURS NOTICE REQUIRED PRIOR TO DIGGING)

Municipality: Naperville County: DuPage Township: 38N Range: 10E

Section: 5



REVISED PER CITY COMMENTS 09/26/25 07/31/25 REVISED PER CITY COMMENTS REVISED PER CITY COMMENTS 06/12/25 04/07/25 ORIGINAL PLAN DATE Description Date **REVISIONS**

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SHEET

C9.0 - C9.2

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TITLE

JACOB & HEFNER ASSOCIATES

1333 Butterfield Rd, Suite 300, Downers Grove, IL 60515 PHONE: (630) 652-4600, FAX: (630) 652-4601 www.jacobandhefner.com

FOR REVIEW PURPOSES ONLY

GENERAL NOTES	EARTHWORK	SANITARY SEWER	PAVEMENT	CONTACTS
. ALL PAVING AND RELATED CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, ALL AMENDMENTS THERETO AND IN ACCORDANCE WITH THE LATEST	1. TOPSOIL EXCAVATION	UNLESS NOTED OTHERWISE, ALL SANITARY SEWER SHALL BE RING-TITE PVC (POLYVINYL CHLORIDE) PLASTIC PIPE. ALL PIPE SHALL CONFORM TO ASTM D-3034 WITH ELASTOMERIC RUBBER RING GASKET	1. FINE GRADING	<u>DEVELOPER:</u> KARIS CRITICAL
EDITION OF THE SUBDIVISION REGULATIONS OF THE MUNICIPALITY. IN CASE OF CONFLICT, THE MORE STRINGENT CODE SHALL TAKE PRECEDENCE.	A. TOPSOIL, ORGANIC MATERIAL, OR ANY OTHER UNSUITABLE MATERIALS SHALL BE REMOVED FROM AREAS REQUIRING STRUCTURAL FILL.	JOINTS CONFORMING TO ASTM D3212. THE STANDARD DIMENSION RATIO (SDR) FOR SANITARY PIPE SHALL BE 26. WHERE SPECIFIED, PVC SDR 21 SANITARY SEWER SHALL BE RING—TITE PVC (POLYVINYL	A. PRIOR TO THE CONSTRUCTION OF CURB AND GUTTER AND PLACEMENT OF THE BASE MATERIAL, THE STREETS SHALL BE FINE GRADED TO WITHIN 0.05 FEET OF FINAL SUBGRADE ELEVATION, TO A POINT TWO FEET BEYOND THE BACK OF CURB.	CONTACT: DAVID DIX
2. ALL STORM SEWER, SANITARY SEWER AND WATER MAIN CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION AND IN ACCORDANCE WITH THE CURRENT SUBDIVISION REGULATIONS OF THE MUNICIPALITY UNLESS OTHERWISE NOTED ON THE PLANS.	B. PLACEMENT OF EXCAVATED MATERIAL SHALL BE DESIGNATED BY THE OWNER FOR FUTURE USE WITHIN AREAS TO BE LANDSCAPED OR AS FILL IN THE AREAS NOT REQUIRING STRUCTURAL FILL MATERIAL.	CHLORIDE) PLASTIC PIPE, CONFORMING TO ASTM D-2241 WITH ELASTOMERIC RUBBER RING GASKET JOINTS CONFORMING TO ASTM D3139. THE PVC DR18 SANITARY SEWER SHALL CONFORM TO AWWA C900/C905, WITH RUBBER GASKET JOINTS CONFORMING TO AWWA C900/C905.	2. CURB AND GUTTER	2150 GOODLETTE-FRANK ROAD, SUITE 700 NAPLES, FLORIDA 34102
S. STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, CONSTRUCTION PLANS, AND SUBSEQUENT DETAILS ARE ALL TO BE CONSIDERED AS PART OF THE CONTRACT. INCIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THIS	C. EXCESS MATERIALS NOT UTILIZED AS FILL OR NOT STOCKPILED FOR FUTURE LANDSCAPING, SHALL BE COMPLETELY REMOVED FROM THE CONSTRUCTION SITE AND DISPOSED OF OFF-SITE BY THE	 CONNECTING SEWER PIPE OF DISSIMILAR MATERIAL IS NOT PERMITTED. ALL FLOOR DRAINS SHALL CONNECT TO THE SANITARY SEWER. CONNECTIONS TO EXISTING SANITARY 	A. THE TYPE OF THE CURB AND GUTTER SHALL BE AS DETAILED ON THE ENGINEERING PLANS. B. THE CURBS SHALL BE BACKFILLED AFTER CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE	P: (407) 616-0398
WORK MAY NOT BE SPECIFICALLY NOTED BUT ARE CONSIDERED A PART OF THIS CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE UTILITY COMPANIES LOCATE THEIR FACILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND SHALL ALSO BE RESPONSIBLE FOR THE MAINTENANCE AND RESERVATION OF THESE FACILITIES THE FACILITIES THE FACILITIES.	CONTRACTOR. 2. EARTH EXCAVATION	SEWER SYSTEM SHALL NOT BE COMPLETED UNTIL AUTHORIZED BY THE MUNICIPALITY. 4. ALL UNSUITABLE MATERIAL SHALL BE REMOVED BELOW THE PROPOSED SANITARY SEWER AND REPLACED	BASE COURSE. C. THE STONE COST UNDER THE CURB AND GUTTER SHALL BE CONSIDERED INCIDENTAL.	GENERAL CONTRACTOR: DEVELOPMENT SOLUTIONS, INC. CONTACT: MICHAEL LONG, VP, INDUSTRIAL SERVICES
CONSTRUCTION AND SHALL ALSO BE RESPONSIBLE FOR THE MAINTENANCE AND PRESERVATION OF THESE FACILITIES. THE ENGINEER DOES NOT WARRANT THE LOCATION OF ANY EXISTING UTILITIES SHOWN ON THE PLANS. THE CONTRACTOR SHALL CALL J.U.L.I.E. AT 800-892-0123 AND THE MUNICIPALITY FOR UTILITY LOCATIONS.	A. EXCAVATION OF EARTH AND OTHER MATERIALS, WHICH ARE SUITABLE FOR USE AS STRUCTURAL FILL SHALL BE WITHIN A TOLERANCE OF 0.05 FEET FOR PADS AND PAVEMENT, AT 0.1 FEET +/- OF	WITH COMPACTED CRUSHED GRAVEL, CONFORMING TO ASTM D-2321, CL I. 5. COST FOR PIPE BEDDING SHALL BE MERGED WITH THE UNIT PRICE BID FOR THE SEWER.	D. DEPRESSED CURBS FOR DRIVEWAYS AND HANDICAPPED RAMPS SHALL BE INSTALLED PER THE PLANS AND IDOT STANDARDS.	121 N. JEFFERSON, 1ST FLOOR CHICAGO, IL 60661
NO CONSTRUCTION PLANS SHALL BE USED FOR CONSTRUCTION UNLESS SPECIFICALLY MARKED "FOR CONSTRUCTION." PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THE WORK WITH THE ACTUAL CONDITIONS AT THE FOR STAKES IN ADDITION. THE CONTRACTOR MUST VERIFY THE ENCINEER'S LINE AND CRAPE STAKES IN THERE	THE PLAN SUBGRADE ELEVATIONS. THE +/- TOLERANCE WITHIN PAVEMENT AREAS UTILIZING EARTH MATERIALS SHALL "BALANCE" AS PART OF THE FINE GRADING OPERATION.	6. PIPE BEDDING SHALL CONSIST OF A MINIMUM OF FOUR INCHES OF COMPACTED CRUSHED GRAVEL OR STONE FOR ALL SANITARY SEWERS. SANITARY SEWER PIPE SHALL HAVE TAMPED CRUSHED GRAVEL OR	CONCRETE PAYEMENT A. CONSTRUCTION JOINTS SHALL INCLUDE DOWELS PER "CONSTRUCTION JOINT TABLE" ALL DOWELS	P: (312) 629-2800
ACTUAL CONDITIONS AT THE JOB SITE. IN ADDITION, THE CONTRACTOR MUST VERIFY THE ENGINEER'S LINE AND GRADE STAKES. IF THERE ARE ANY DISCREPANCIES WITH WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT SAME TO ENGINEER BEFORE COMMENCING ANY WORK, OTHERWISE THE CONTRACTOR SIZE FULL ESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN	B. PLACEMENT OF EARTH AND OTHER SUITABLE MATERIALS SHALL BE PLACED WITHIN THOSE AREAS REQUIRING STRUCTURAL FILL TO ACHIEVE THE PLAN SUBGRADE ELEVATIONS WITHIN A TOLERANCE OF 0.1 FEET +/ THE FILL MATERIAL SHALL BE PLACED IN LOOSE LIFTS, NOT EXCEED EIGHT INCHES	STONE COVER ABOVE THE TOP OF PIPE, TO A MINIMUM OF 12 INCHES. THE BEDDING AND TRENCH BACKFILL MATERIAL SHALL CONFORM TO IDOT GRADTION CA-6 AND INSTALLED PER ASTM D-2321 CLASS I.	SHALL BE SMOOTH EPOXY COATED; GREASE ONE END. B. CONTRACTOR SHALL PROVIDE CONTRACTION JOINT 5' OFF OF FACE OF BUILDING.	ARCHITECT: CARLSON DESIGN GROUP
THE CONSTRUCTION PLANS, SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTIONS ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION	0.1 FEET +/ THE FILL MATERIAL SHALL BE PLACED IN LOOSE LIFTS, NOT EXCEED EIGHT INCHES IN THICKNESS. THE WATER CONTENT SHALL BE ADJUSTED IN ORDER TO ACHIEVE THE REQUIRED COMPACTION. EARTH MATERIAL MAY BE PLACED WITHIN THOSE AREAS OF THE SITE NOT REQUIRING STRUCTURAL FILL, WITHIN THE PLAN SUBGRADE ELEVATION. IN AREAS REQUIRING STRUCTURAL FILL,	7. WATER MAINS SHALL BE SEPARATED FROM SANITARY SEWERS AND STORM SEWERS IN ACCORDANCE WITH IEPA REQUIREMENTS AS SPECIFIED IN THE "WATER MAIN" SECTION.	C. EXCEPT AT FIRST PANEL FROM THE FACE OF BUILDING, CONCRETE PANEL LENGTH SHALL NOT EXCEED ITS WIDTH BY MORE THAN 25%.	CONTACT: GUY C. TORO R.A. 5550 PEACHTREE PARKWAY, SUITE 125
OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE. NOTIFICATION OF COMMENCING CONSTRUCTION	THE EARTH MATERIAL SHALL NOT BE PLACED OVER TOPSOIL OR OTHER UNSUITABLE MATERIALS. THE STRUCTURAL SUBGRADE AREA SHALL EXTEND TO THE ZONE OF INFLUENCE IN ALL FILL AREAS.	8. NO WATER LINE SHALL BE PLACED IN THE SAME TRENCH AS A SEWER LINE.	D. CONTRACTION JOINTS SHALL BE CUT TO A DEPTH D/4 FOR CONVENTIONAL CONCRETE, OR D/3 FOR FIBER REINFORCED CONCRETE. WIDTH OF SAW—CUT SHALL BE PER JOINT SEALANT MATERIAL	PEACHTREE CORNERS, GA 30092 P: (770) 217–7129
A. THE CONTRACTOR SHALL NOTIFY THE OWNER AND/OR HIS REPRESENTATIVE AND THE AFFECTED GOVERNMENTAL AGENCIES IN WRITING AT LEAST THREE FULL WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL NOTIFY AS	C. COMPACTION OF THE EARTH AND OTHER SUITABLE MATERIALS SHALL BE TO A MINIMUM OF 95% OF THE MODIFIED PROCTOR DRY DENSITY. THIS INCLUDES AREAS WITHIN PROPOSED PAVEMENT AND BUILDING PAD LOCATIONS, SIDEWALKS, ETC. IN NON-STRUCTURAL FILL AREAS, 90% TO 95% OF THE	9. THE TESTING OF THE PIPE STRAIGHTNESS AND FIELD TESTING, SHALL BE IN ACCORDANCE WITH THE DEVELOPMENT CODE OF THE MUNICIPALITY.	MANUFACTURER'S RECOMMENDATIONS.	F: (313) 234-0800
NECESSARY, ALL TESTING AGENCIES, EITHER MUNICIPALITY'S OR THE OWNER'S, SUFFICIENTLY IN ADVANCE OF CONSTRUCTION. B. FAILURE OF THE CONTRACTOR TO ALLOW PROPER NOTIFICATION TIME. WHICH RESULTS IN TESTING COMPANIES TO BE UNABLE TO VISIT	MODIFIED PROCTOR DRY DENSITY IS REQUIRED. 3. UNSUITABLE MATERIAL	10. SANITARY SEWER MANHOLES SHALL BE FOUR FOOT INNER DIAMETER MINIMUM, PRECAST REINFORCE CONCRETE RINGS OR MONOLITHIC CONCRETE, CONFORMING TO ASTM C 478. THE STRUCTURE SHALL HAVE AN ECCENTRIC CONE INSTALLED, LINING UP WITH THE MANHOLE STEPS. ALL MANHOLE STEPS SHALL BE NEENAH R-1981-I AT 16 INCHES ON-CENTER.	E. ALL JOINTS SHALL BE CAULKED —SIKASIL—728SL (SAWCUT JOINTS) —SIKAFLEX—1C/SL (EXPANSION JOINTS) —OR APPROVED EQUAL	CIVIL ENGINEER: JACOB AND HEFNER ASSOCIATES, INC.
THE SITE AND PERFORM TESTING, WILL CAUSE THE CONTRACTOR TO SUSPEND OPERATION (PERTAINING TO TESTING) UNTIL THE TESTING AGENCY CAN SCHEDULE TESTING OPERATIONS. THE COST OF SUSPENSION OF WORK TO BE BORNE BY THE CONTRACTOR.	A. UNSUITABLE MATERIAL SHALL BE CONSIDERED AS MATERIAL THAT IS NOT SUITABLE FOR THE SUPPORT OF PAVEMENT AND BUILDING CONSTRUCTION. IF IT IS ENCOUNTERED BELOW NORMAL TOPSOIL DEPTHS AND THE PROPOSED SUBGRADE ELEVATION, IT SHALL BE REMOVED AND REPLACED	11. ALL SANITARY SEWER MANHOLE LIDS SHALL BE NEENAH R-1713-B OR APPROVED EQUAL. THE LIDS SHALL HAVE RECESSED (CONCEALED) PICK HOLE AND BE SELF SEALING WITH "O" RING GASKET. THE	F. CURB & GUTTER WITHIN CONCRETE PAVEMENT AREAS SHALL BE MONOLITHICALLY POURED OR SHALL BE TIED TO THE FIRST PANEL.	CONTACT: KRISTEN BRUNS, P.E. 1333 BUTTERFIELD ROAD, SUITE 300
ALL CONTRACTORS SHALL KEEP ACCESS AVAILABLE AT ALL TIMES, FOR ALL TYPES OF TRAFFIC. AT NO TIME SHALL ACCESS BE DENIED TO PROPERTIES SURROUNDING THE SITE.	WITH SELECT GRANULAR MATERIAL APPROVED BY THE SOILS ENGINEER. THE DECISION TO REMOVE SAID MATERIAL AND TO WHAT EXTENT, SHALL BE MADE BY A SOILS ENGINEER WITH THE CONCURRENCE OF THE OWNER.	SHALL HAVE RECESSED (CONCEALED) PICK HOLE AND BE SELF SEALING WITH O RING GASKET. THE LIDS SHALL HAVE THE WORD "SANITARY" AND THE MUNICIPALITY NAME EMBOSSED ON THE LID. 12. ALL MANHOLE JOINTS SHALL BE SEALED WITH "O" RING JOINTS. NO MORE THAN EIGHT INCHES OF	DOWEL SIZE AND SPACING AT CONSTRUCTION JOINTS	DOWNERS GROVE, ILLINOIS 60515 P: (630) 652-4600
ALL PROPOSED ELEVATIONS SHOWN ON THE PLANS ARE FINISHED SURFACE ELEVATIONS, UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL PRESERVE ALL CONSTRUCTION STAKES UNTIL THEY ARE NO LONGER NEEDED. ANY STAKES DESTROYED OR	4. THE GRADING CONTRACTORS RESPONSIBILITIES	12. ALL MANHOLE JOINTS SHALL BE SEALED WITH O RING JOINTS. NO MORE THAN EIGHT INCHES OF PRECAST CONCRETE ADJUSTING RINGS SHALL BE USED TO ADJUST FRAME ELEVATIONS. ALL MANHOLES SHALL HAVE MISSION COUPLING TYPE FITTINGS FOR PIPE CONNECTIONS.	PAVEMENT DEPTH (INCH) CONSTRUCTION JOINT DOWEL DIMENSIONS (INCH) DOWEL SPACING C-C (INCH)	F: (630) 652-4601
STURBED BY THE CONTRACTOR PRIOR TO THEIR USE SHALL BE RESET AT THE CONTRACTOR'S COST. L FRAMES AND LIDS FOR STORM AND SANITARY SEWER STRUCTURES ARE TO BE ADJUSTED TO MEET FINAL FINISHED GRADE. THIS	A. MAINTAIN POSITIVE DRAINAGE AT ALL TIMES DURING THE COURSE OF CONSTRUCTION AND PREVENT STORM WATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS.	13. DROP MANHOLE ASSEMBLIES SHALL BE PROVIDED AT THE JUNCTION OF SANITARY SEWERS WHERE THE DIFFERENCE IN INVERT GRADES EXCEEDS TWO FEET OR AT LOCATIONS SHOWN ON THE PLANS. THE ENTIRE DROP ASSEMBLY SHALL BE CAST IN CONCRETE MONOLITHICALLY WITH THE MANHOLE BARREL.	5 TO <6	<u>CITY OF NAPERVILLE:</u> CONTACT: ERIN VENARD
JUSTMENT IS TO BE MADE BY THE SEWER CONTRACTOR AND THE COST IS TO BE CONSIDERED INCIDENTAL. THESE ADJUSTMENTS TO IISHED GRADE WILL NOT ALLEVIATE THE CONTRACTOR FROM ANY ADDITIONAL ADJUSTMENTS AS REQUIRED BY THE MUNICIPALITY UPON IAL INSPECTION OF THE PROJECT. FINAL GRADES ARE TO BE DETERMINED BY THE MUNICIPALITY AT THE TIME OF FINAL INSPECTION AND	B. SPREAD AND COMPACT UNIFORMLY ALL EXCESS TRENCH SPOIL, AS SPECIFIED, AFTER COMPLETION OF THE UNDERGROUND IMPROVEMENTS.	14. INSPECTION OF MANHOLES:	10 TO 12 1-1/2 x 18 12	400 S. EAGLE STREET NAPERVILLE, ILLINOIS 60540
VARY FROM PLAN GRADE. EXISTING SIGNS, LIGHT STANDARDS AND UTILITY POLES WHICH INTERFERE WITH CONSTRUCTION OPERATIONS AND NOT NOTED FOR POSAL, SHALL BE REMOVED AND RESET BY THE CONTRACTOR AT HIS OWN EXPENSE, AS DIRECTED BY THE ENGINEER. ANY DAMAGE TO	C. SCARIFY AND COMPACT THE UPPER 12 INCHES OF THE SUITABLE SUBGRADE MATERIAL, AS SPECIFIED, IN ALL AREAS THAT MAY BE SOFT DUE TO EXCESS MOISTURE CONTENT. THIS APPLIES TO CUT AREAS AS WELL AS FILL AREAS.	ALL MANHOLES SHALL BE THOROUGHLY CLEANED OF DIRT AND DEBRIS. ALL VISIBLE LEAKAGE SHALL BE ELIMINATED BEFORE FINAL INSPECTION AND ACCEPTANCE.	3. PAVEMENT	P: (630) 420-4101
POSAL, SHALL BE REMOVED AND RESET BY THE CONTRACTOR AT HIS OWN EXPENSE, AS DIRECTED BY THE ENGINEER. ANY DAMAGE TO SE ITEMS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR, AT HIS OWN EXPENSE, TO THE SATISFACTION OF THE OWNER. ANY NS NOT REQUIRED TO BE RESET SHALL BE DELIVERED TO THE RESPECTIVE OWNERS.	D. PROVIDE ADDITIONAL WATER TO DRY MATERIAL TO ADJUST THE MOISTURE CONTENT FOR THE PURPOSE OF ACHIEVING THE SPECIFIED COMPACTION.	15. TESTING FOR ACCEPTANCE OF SANITARY SEWERS AND MANHOLES, INCLUDING SERVICE LINES, SHALL INCLUDE LOW PRESSURE AIR TEST AND DEFLECTION TEST PER STANDARD SPECIFICATIONS AND SUBDIVISION REGULATIONS OF THE MUNICIPALITY. THE TESTS SHALL BE APPROVED BY THE MUNICIPALITY	A. THE PAVEMENT MATERIALS SHALL BE AS DETAILED ON THE ENGINEERING PLANS. DEPTHS SPECIFIED SHALL BE CONSIDERED THE MINIMUM COMPACTED THICKNESS.	
OVAL OF SPECIFIED ITEMS, INCLUDING BUT NOT LIMITED TO, PAVEMENT, SIDEWALK, CURB AND GUTTER, CULVERTS, ETC., SHALL BE OSED OF OFF—SITE BY THE CONTRACTOR AT HIS OWN EXPENSE. THE CONTRACTOR IS RESPONSIBLE FOR ANY PERMIT REQUIRED FOR	E. BACKFILL THE CURB AND GUTTER AFTER CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE BASE COURSE MATERIAL.	BEFORE ACCEPTANCE. ALL SANITARY MANHOLES SHALL BE VACUUM TESTED FOR LEAKAGE IN ACCORDANCE WITH MUNICIPAL STANDARDS AND ASTM C 1244-02.	4. GENERAL THE PAVING CONTRACTOR SHALL:	
JCH DISPOSAL. LL FIELD TILE ENCOUNTERED DURING CONSTRUCTION OPERATIONS SHALL BE CONNECTED TO THE PROPOSED STORM SEWER SYSTEM OR HALL BE RESTORED TO PROPER OPERATING CONDITION. A RECORD OF THE LOCATION OF ALL FIELD TILE OR DRAIN PIPE ENCOUNTERED	F. ACCOUNTABLE FOR IMPLEMENTATION OF THE "SOIL EROSION AND SEDIMENTATION CONTROL MEASURES" AS DESCRIBED ON THE PLANS. ALL CONTRACTORS SHALL COMPLY WITH THE SWPPP	16. TELEVISION TESTING OF ALL SANITARY SEWERS SHALL BE TELEVISED. A COPY OF THE RECORDING AND A WRITTEN REPORT SHALL BE SUBMITTED TO THE MUNICIPALITY FOR APPROVAL. THE REPORT SHALL INCLUDE STUB LOCATIONS, A DESCRIPTION OF ALL DEFECTS, WATER LEVEL, LEAKS AND IDENTIFICATION	A. REPAIR ANY BASE COURSE AND BINDER COURSE FAILURES PRIOR TO THE INSTALLATION OF THE FINAL BITUMINOUS CONCRETE SURFACE COURSE.	
L BE KESTORED TO PROPER OPERATING CONDITION. A RECORD OF THE ECCENTION OF ALL FIELD THE ON DIGIN FIFE ENCOUNTERED L BE KEPT BY THE CONTRACTOR AND TURNED OVER TO THE ENGINEER UPON COMPLETION OF THE PROJECT. THE COST OF THIS K SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED BY OWNER AND CIPALITY.	AND NPDES REQUIREMENTS. G. PERFORM LIME STABILIZATION OF THE SUBGRADE MATERIAL IF REQUIRED BY THE SOILS ENGINEER.	OF LENGTH FROM THE MANHOLE NUMBER SPECIFIED ON THE APPROVED PLANS. ALL COSTS SHALL BE INCIDENTAL TO THE WORK. TESTING SHALL BE WITNESSED AND APPROVED BY THE MUNICIPALITY BEFORE FINAL ACCEPTANCE. THE LOCATION OF TELEVISION INSPECTION SHALL BE DESIGNATED BY THE MUNICIPAL ENGINEER.	B. SWEEP CLEAN THE BINDER COURSE PRIOR TO THE INSTALLATION OF THE FINAL BITUMINOUS CONCRETE SURFACE COURSE. ANY DAMAGE TO THE BINDER COURSE SHALL BE REPAIRED BY THE CONTRACTORS AT NO ADDITIONAL COST TO THE OWNER.	WATER MAIN
WORK PERFORMED UNDER THIS CONTRACT SHALL BE GUARANTEED BY THE CONTRACTOR AND HIS SURETY FOR A PERIOD OF 12 THIS FROM THE DATE OF FINAL ACCEPTANCE OF THE PROJECT. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DEFECTS IN	5. TESTING AND FINAL ACCEPTANCE A. THE CONTRACTOR SHALL PROVIDE, AS A MINIMUM, A TANDEM AXLE TRUCK LOADED TO 14 TONS FOR	17. IF THE SANITARY SEWER INSTALLATION FAILS TO MEET THE TEST REQUIREMENTS SPECIFIED, THE CONTRACTOR SHALL DETERMINE THE CAUSE OR CAUSES OF THE DEFECT. AT HIS OWN EXPENSE. THE	D. PROVIDE CONSTRUCTION, EXPANSION AND CONTRACTION JOINTS FOR CURB AND GUTTER AND P.C.C. SIDEWALK PER IDOT STANDARDS AND MUNICIPAL STANDARDS.	
TERIALS AND WORKMANSHIP OF WHATEVER NATURE DURING THAT PERIOD. FORE ACCEPTANCE BY THE OWNER AND FINAL PAYMENT, ALL WORK SHALL BE INSPECTED BY THE OWNER OR HIS REPRESENTATIVE.	PROOF ROLLING THE PAVEMENT SUBGRADE. PROOF ROLLING SHALL BE PERFORMED PRIOR TO THE PLACEMENT OF THE CURB AND GUTTER AND BASE MATERIAL. THIS SHALL BE WITNESSED AND APPROVED BY THE MUNICIPAL ENGINEER AND OWNER.	CONTRACTOR SHALL REPAIR OR REPLACE ALL MATERIALS AND WORKMANSHIP AS NECESSARY TO COMPLY WITH THE TEST REQUIREMENTS.	E. REMOVE ALL EXCESS MATERIALS AND DEBRIS. DISPOSE OF MATERIALS OFF—SITE AT NO ADDITIONAL COST TO THE OWNER.	ALL WATERMAIN COMPONENTS THAT COME INTO CONTACT WITH POTABLE WATER, INCLUDING BUT NOT LIMITED TO PIPES, COATINGS, JOINTS, FITTINGS, VALVES, AND APPURTENANCES, SHALL BE NSF 61 APPROVED.
IL PAYMENT WILL BE MADE AFTER ALL THE CONTRACTÓR'S WORK HAS BEEN APPROVED AND ACCEPTED BY THE OWNER AND IICIPALITY.	B. ANY UNSUITABLE AREA ENCOUNTERED AS A RESULT OF PROOF ROLLING, SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL APPROVED BY THE SOILS CONSULTANT, PROOF ROLLING SHALL	18. THE CERTIFICATION CONTRACTOR SHALL SUBMIT CERTIFIED COPIES OF ALL REPORTS OF THE TESTS CONDUCTED BY AN INDEPENDENT LABORATORY BEFORE INSTALLATION OF PVC PLASTIC PIPE. TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH THE STANDARD METHOD OF TESTING FOR "EXTERNAL	5. TESTING AND FINAL ACCEPTANCE	2. WATER MAINS SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP), CLASS 52, CONFORMING TO
ON AWARDING OF THE CONTRACT AND WHEN REQUIRED BY THE MUNICIPALITY, THE CONTRACTOR SHALL FURNISH A LABOR, MATERIAL D PERFORMANCE BOND WITH INSURANCE, IN THE AMOUNT REQUIRED BY THE MUNICIPALITY, GUARANTEEING COMPLETION OF THE WORK. E UNDERWRITER SHALL BE ACCEPTABLE TO THE MUNICIPALITY.	BE PERFORMED UNTIL THE SUBGRADE IS APPROVED BY THE MUNICIPAL ENGINEER, OWNER AND SOILS ENGINEER.	LOADING PROPERTIES OF PLASTIC PIPE BY PARALLEL PLATE LOADING," ASTM STANDARD D-2412. TESTS SHALL ALSO BE CONDUCTED IN ACCORDANCE WITH ASTM D-3212, TO DEMONSTRATE JOINT PERFORMANCE AT 5% MAXIMUM DIAMETRIC DEFLECTION OF THE SPIGOT, AS SPECIFIED IN ASTM D-3212	A. PRIOR TO THE PLACEMENT OF THE BASE COURSE, THE SUBGRADE MUST BE PROOF ROLLED AND INSPECTED FOR UNSUITABLE LOCATIONS. IF UNSUITABLE SUBGRADE IS ENCOUNTERED, IT SHALL BE REMOVED AND REPLACED WITH GRANULAR MATERIAL APPROVED BY THE OWNER OR HIS	AWWA C-151 (ANSI A-21.51) WITH CEMENT MORTAR LINING AND BITUMINOUS SEAL COATING, CONFORMING TO ANSI-A-21.4 (AWWA C-104). ALL WATER MAIN SHALL BE POLYETHYLENE ENCASED. THE POLYETHYLENE MATERIAL SHALL BE IN CONFORMANCE WITH THE MUNICIPAL REGULATIONS.
SEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY ARE SHOWN ON THE ANS ACCORDING TO KNOWN AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN	C. THE WORK AREAS SHALL BE POSITIVELY DRAINED DURING CONSTRUCTION. FINAL GRADES SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION, SEDIMENTATION AND TRAFFIC.	SPECIFICATIONS.	REPRESENTATIVE. THE SUBGRADE SHALL HAVE A MINIMUM IBR VALUE OF 3.0. B. PRIOR TO PLACEMENT OF THE BITUMINOUS CONCRETE SURFACE COURSE, THE CONTRACTOR SHALL OF THE BINDED COURSE WITH A CORP. DEPOTED AND ACCOUNTY.	3. THE JOINTS SHALL BE PUSH-ON JOINTS CONFORMING TO ANSI A-21.11 (AWWA C-111) AND ALL RETAINING GLANDS SHALL BE SET SCREW OR MEGA-LUG TYPE. WATER MAIN FITTINGS SHALL BE OF
FIELD OF THESE UTILITY LINES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES ANY NATURE ARE ENCOUNTERED WHICH CONFLICT WITH LOCATIONS OF THE NEW CONSTRUCTION, JACOB AND HEFNER ASSOCIATES, INC. IESPONSIBLE TO RESOLVE THE CONFLICT. JACOB AND HEFNER ASSOCIATES, INC. IS NOT RESPONSIBLE FOR THE COST OF			OBTAIN SPECIMENS OF THE BINDER COURSE WITH A CORE DRILL WHERE DIRECTED AND AS REQUIRED. THICKNESS VERIFICATION WILL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION."	DUCTILE IRON WITH CEMENT MORTAR LINING AND SEAL COATING WITH PUSH—ON JOINTS, CONFORMING TO ANSI A21.10 (AWWA C-110).
NSTRUCTION. OWNER SHALL OBTAIN EASEMENTS AND PERMITS NECESSARY TO FACILITATE CONSTRUCTION OF THE PROPOSED UTILITIES. THE NTRACTOR, SHALL FURNISH ALL REQUIRED BONDS AND EVIDENCE OF INSURANCE NECESSARY TO SECURE THESE PERMITS.			C. FINAL ACCEPTANCE OF THE TOTAL PAVEMENT INSTALLATION SHALL BE SUBJECT TO THE TESTING AND VERIFICATION REQUIREMENTS CITED ABOVE.	4. THRUST BLOCKING OR RESTRAINED JOINTS SHALL BE INSTALLED ON ALL WATER MAINS AT ALL BENDS, TEES, ELBOWS, ETC. 5. DISTRIBUTION SYSTEM VALVES SHALL BE RESULENT SEAT VALVE CONFORMING TO AWAYA C509 LATEST
INTRACTOR, SHALL FURNISH ALL REQUIRED BONDS AND EVIDENCE OF INSURANCE NECESSARY TO SECURE THESE PERMITS. E CONTRACTORS SHALL PLAN THEIR WORK BASED ON THEIR OWN BORINGS, EXPLORATIONS AND OBSERVATIONS TO DETERMINE SOIL INDITIONS AT THE LOCATION OF THE PROPOSED WORK.			6. METHOD OF MEASUREMENT A. CURB AND GUTTER AND BASE COURSE SHALL BE MEASURED IN THE FIELD BY THE CONTRACTOR.	5. DISTRIBUTION SYSTEM VALVES SHALL BE RESILIENT SEAT VALVE, CONFORMING TO AWWA C-509, LATEST STANDARDS AND SHALL BE APPROVED BY THE MUNICIPALITY. EACH VALVE SHALL BE INSTALLED IN A VALVE VAULT OR BOX OF SIZE SHOWN ON THE PLANS. THE LIDS SHALL BE NEENAH R-1713-B OR APPROVED EQUAL. LETTERING ON THE CAST IRON FRAME AND LID SHALL INDICATE "WATER" AND THE
E CONTRACTOR IS SOLELY RESPONSIBLE FOR SAFETY ON THE JOB SITE IN ACCORDANCE WITH OSHA REGULATIONS.			THE QUANTITIES SHALL BE SUBMITTED TO THE ENGINEER FOR VERIFICATION WHEN REQUESTED BY THE OWNER.	MUNICIPALITY NAME. 6. A MINIMUM DEPTH OF COVER OF 5'-6" SHALL BE MAINTAINED OVER THE WATER LINES.
AT NO ADDITIONAL EXPENSE TO THE OWNER, THE CONTRACTOR SHALL COLLECT AND REMOVE ALL CONSTRUCTION DEBRIS, EXCESS MATERIALS, TRASH, OIL AND GREASE RESIDUE, MACHINERY, TOOLS, STAKES OR LATH SET BY SURVEYORS FOR CONSTRUCTION AND OTHER MISCELLANEOUS ITEMS NOT PRESENT PRIOR TO PROJECT COMMENCEMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ANY	STORM SEWER	SOIL EROSION AND SEDIMENT CONTROL	B. WHEN REQUESTED BY THE OWNER, DOCUMENTATION FOR THE INSTALLED BASE COURSE, BITUMINOUS CONCRETE BINDER AND SURFACE COURSE, SHALL BE SUBMITTED TO THE ENGINEER FOR VERIFICATION AS REQUIRED BY THE MUNICIPALITY. WHERE DIRECTED, THE CONTRACTOR SHALL OBTAIN	A MINIMUM DEPTH OF COVER OF 5 – 6 SHALL BE MAINTAINED OVER THE WATER LINES. 7. ALL WATER MAINS SHALL BE PRESSURE TESTED, FLUSHED AND DISINFECTED IN ACCORDANCE WITH AWWA SPECIFICATIONS. EACH VALVE SECTION SHALL BE PRESSURE TESTED FOR A MINIMUM OF FOUR
ND ALL PERMITS NECESSARY FOR THE HAULING AND DISPOSAL REQUIRED FOR CLEAN—UP AS DIRECTED BY THE ENGINEER OR OWNER. URNING ON THE SITE IS NOT PERMITTED.			SPECIMENS OF THE BITUMINOUS CONCRETE WITH A CORE DRILL TO CONFIRM THE PLAN THICKNESS. DEFICIENCIES IN THICKNESS SHALL BE ADJUSTED BY THE METHOD DESCRIBED IN THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION."	HOURS. THE ONLY ALLOWABLE LEAKAGE IS AS PREDETERMINED BY THE STANDARD SPECIFICATIONS FOR SEWER AND WATER MAIN CONSTRUCTION IN ILLINOIS. AT NO TIME IS THERE TO BE ANY VISIBLE LEAKAGE FROM THE MAIN.
SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE PROPER BARRICADING, WARNING DEVICES AND THE SAFE MANAGEMENT F TRAFFIC AND PEDESTRIANS WITHIN THE AREA OF CONSTRUCTION. ALL SUCH DEVICES AND THEIR INSTALLATION SHALL CONFORM TO THE LINOIS "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS," LATEST EDITION AND IN CONFORMANCE WITH	ALL STORM SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, IN ADDITION TO THE SUBDIVISION CONTROL ORDINANCE OF THE MUNICIPALITY.	ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF THE SUBDIVISION CONTROL ORDINANCE OF THE MUNICIPALITY AND THE ILLINOIS URBAN MANUAL.	7. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE PROPER BARRICADING, WARNING DEVICES AND SAFE TRAFFIC MANAGEMENT WITHIN THE AREA OF CONSTRUCTION. ALL SUCH DEVICES AND	8. FIRE HYDRANTS SHALL BE INSTALLED WITH AN AUXILIARY VALVE WITH CAST IRON VALVE BOX. FIRE HYDRANTS SHALL CONFORM TO MEET ALL REQUIREMENTS DESCRIBED IN THE SUBDIVISION CONTROL
EGULATIONS OF THE MUNICIPALITY OR D.O.T. O UNDERGROUND WORK SHALL BE COVERED UNTIL IT HAS BEEN APPROVED BY THE MUNICIPALITY. APPROVAL TO PROCEED MUST BE	2. UNLESS OTHERWISE NOTED ON THE PLANS, ALL STORM SEWERS SHALL BE REINFORCED CONCRETE CULVERT PIPE (RCP), ASTM C 76, WITH "O" RING RUBBER GASKET JOINTS CONFORMING TO ASTM	2. BEFORE STARTING SITE CLEARING AND GRADING WORK, A CONSTRUCTION ENTRANCE AND SILT FENCE SHALL BE INSTALLED AS SHOWN ON THE PLANS.	THEIR INSTALLATION SHALL CONFORM TO THE ILLINOIS "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS," LATEST EDITION. THIS SHALL BE IN ACCORDANCE WITH THE SUBDIVISION CONTROL ORDINANCE OF THE MUNICIPALITY.	ORDINANCE OF THE MUNICIPALITY. THE HYDRANT SHALL FACE THE ROADWAY. THE FIRE HYDRANTS SHALL BE PAINTED PER THE MUNICIPALITY. THE VALVE BOX LID SHALL HAVE WORD "WATER" EMBOSSED ON THE LID.
BTAINED FROM THE MUNICIPALITY PRIOR TO INSTALLING PAVEMENT BASE, BINDER COURSE OR SURFACE COURSE AND PRIOR TO POURING NY CONCRETE AFTER FORMS HAVE BEEN SET.	C-443. ALL UNDERÓRAINS SHALL BE ADS N-12. 3. ALL DOWNSPOUT AND FOOTING DRAINS SHALL BE DISCHARGED TO THE STORM SEWER SYSTEM OR ONTO	3. THE CONSTRUCTION ENTRANCE TO THE SITE SHALL BE STABILIZED WITH GRAVEL PRIOR TO BEGINNING ANY WORK ON THE SITE. THE ENTRANCE SHALL BE MAINTAINED PERIODICALLY FOR ITS EFFECTIVENESS TO REMOVE DIRT FROM CONSTRUCTION VEHICLES LEAVING THE SITE.	8. LONGITUDINAL JOINT CONSTRUCTION	9. MAXIMUM DEFLECTION AT PIPE JOINTS SHALL BE IN ACCORDANCE WITH CURRENT MANUFACTURER'S RECOMMENDATIONS AND AWWA SPECIFICATIONS.
ALL EXISTING UTILITIES OR IMPROVEMENTS, INCLUDING WALKS, CURBS, PAVEMENT AND PARKWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE PROMPTLY RESTORED TO THEIR RESPECTIVE ORIGINAL CONDITION.	THE GROUND. 4. MANHOLE, CATCH BASIN AND INLET BOTTOMS SHALL BE PRECAST CONCRETE SECTIONAL UNITS OR	4. SILT FILTER FENCE SHALL BE PLACED AS SHOWN ON THE PLANS AND AS DIRECTED BY THE MUNICIPALITY'S ENGINEERING INSPECTOR, TO PREVENT SEDIMENT FROM LEAVING THE SITE.	A. AS MANY LONGITUDINAL JOINTS AS PRACTICAL SHALL BE CLOSED AT THE END OF EACH DAY OF PAVING. A TACK COAT SHALL BE APPLIED TO THE "COLD" SIDE OF THE LONGITUDINAL JOINT PRIOR	10. BEDDING, HAUNCHING, AND INITIAL BACKFILL FOR NEW WATER MAINS SHALL CONSIST OF COMPACTED CRUSHED GRAVEL OR STONE. BEDDING MATERIAL DEPTH SHALL BE A MINIMUM OF FOUR INCHES BELOW
THE CLOSE OF EACH WORKING DAY AND AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW NES SHALL BE FREE FROM DIRT AND DEBRIS. REES NOT MARKED FOR REMOVAL SHALL BE CONSIDERED AS DESIGNATED TO BE SAVED AND SHALL BE PROTECTED UNDER THE	MONOLITHIC CONCRETE. MANHOLES AND CATCH BASINS SHALL BE FOUR FEET IN DIAMETER UNLESS OTHERWISE SPECIFIED ON THE PLANS. MANHOLE JOINTS SHALL BE "O" RING GASKET JOINTS. A MAXIMUM OF SIX INCHES OF ADJUSTING RINGS SHALL BE USED TO ADJUST FRAME ELEVATIONS. THE	5. STAKED SILT FENCE SHALL BE INSTALLED AND MAINTAINED AROUND THE INLETS AND CATCH BASINS AS SHOWN ON THE PLANS.	TO THE PLACEMENT OF THE HOT SIDE MAT. B. LONGITUDINAL JOINT CONSTRUCTION SHALL BE COMPLETED BEFORE THE "COLD" SIDE OF THE JOINT	PIPE AND INITIAL BACKFILL DEPTH SHALL BE 6" ABOVE PIPE, OR AS REQUIRED BY THE MUNICIPALITY. 11. IEPA WATER MAIN PROTECTION
REES NOT MARKED FOR REMOVAL SHALL BE CONSIDERED AS DESIGNATED TO BE SAVED AND SHALL BE PROTECTED UNDER THE ROVISIONS OF ARTICLE 201.05 OF THE STANDARD SPECIFICATIONS. IMB PRUNING SHALL BE PERFORMED UNDER THE SUPERVISION OF AN APPROVED LANDSCAPE ARCHITECT AND SHALL BE UNDERTAKEN IN	ADJUSTING RINGS SHALL BE SET WITHIN A FULL MORTAR BED. 5. ALL STORM SEWERS SHALL BE INSTALLED ON TYPE "A" BEDDING, 1/4 TO 3/4 INCH IN SIZE, WITH A	6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION AND MAINTENANCE OF ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES.	FALLS BELOW 200°F. C. IN THE EVENT THE TEMPERATURE OF THE "COLD" SIDE OF A JOINT FALLS BELOW 200°F PRIOR TO	A. WATER MAINS:
TIMELY FASHION SO AS NOT TO INTERFERE WITH CONSTRUCTION. L LIMBS, BRANCHES AND OTHER DEBRIS RESULTING FROM THIS WORK SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR AT HIS	MINIMUM THICKNESS EQUAL TO 1/4 OF THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR INCHES. USING BLOCKS OF ANY KIND FOR GRADE IS NOT PERMITTED. THE GRANULAR MATERIAL FOR BEDDING AND TRENCH BACKFILL MATERIAL SHALL CONFORM TO IDOT GRADATION CA-6.	7. THE CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES WEEKLY AND AFTER ANY STORM EVENT IN EXCESS OF HALF AN INCH. AN INSPECTION REPORT SHALL BE COMPLETED EACH TIME AND KEPT WITHIN A BINDER ON THE JOB SITE AT ALL TIMES. THE NOI, NPDES PERMIT AND SWPP PLAN SHALL	JOINT CONSTRUCTION COMPLETION, THE CONTRACTOR SHALL PERFORM THE FOLLOWING: 1. HEAT THE COLD SIDE JOINT TO 200°F EITHER BY MEANS OF A HAND TORCH OR AN INFRARED HEATER. THE CONTRACTOR SHALL AVOID BURNING THE ASPHALT DURING REHEATING.	HORIZONTAL SEPARATION: a) WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR SERVED SERVED OR SERVED SE
. CUTS OVER ONE INCH IN DIAMETER SHALL BE MADE FLUSH WITH THE NEXT LARGE BRANCH, WOUNDS OVER ONE INCH IN DIAMETER	THE GRANULAR MATERIAL FOR BEDDING AND INITIAL BACKFILL OF FLEXIBLE PIPE SHALL BE NON-ANGULAR GRAVEL MATERIAL CONFORMING TO ASTM D-2321, CLASS I. THE COST OF BEDDING MATERIAL SHALL BE MEGED WITH THE UNIT PRICE BID FOR THE SEWER. THE BEDDING MATERIALS CHARLED TO COMPANY THE THE MATERIALS CHARLED TO COMPANY THE MATERIAL CHARLED TO COMPANY THE MATERIALS CHARLED TO COMPANY THE MATERIAL CHARLED TO COMPANY THE MATERIALS CHARLED TO COMPANY THE MATERIAL CHARLED TO COMPANY THE MATERIAL CHARLED TO COMPANY THE MATERIALS CHARLED TO COMPANY THE COMP	WITHIN A BINDER ON THE JOB SITE AT ALL TIMES. THE NOT, NPDES PERMIT AND SWPP PLAN SHALL ALSO BE KEPT ON—SITE. 8. AT THE COMPLETION OF THE PROJECT, ALL STORM SEWER PIPES AND STRUCTURES SHALL BE CLEANED	2. APPLY TACK COAT TO THE REHEATED JOINT PRIOR TO ASPHALT PLACEMENT. D. THE CONTRACTOR SHALL OFFSET SURFACE COURSE JOINTS FROM BINDER COURSE JOINTS,	PROPOSED DRAIN, STORM SEWER, SANITARY SEWER OR SEWER SERVICES CONNECTION. b) WATER MAINS MAY BE LAID CLOSER THAN 10 FEET TO A SEWER LINE WHEN:
HALL BE PAINTED WITH AN APPROVED TREE PAINT. IY DEWATERING OF SEWER AND WATER TRENCHES, AS WELL AS TEMPORARY SHEETING OR BRACING THAT MAY BE REQUIRED, SHALL BE	SHALL BE COMPACTED TO 95% OF THE MODIFIED PROCTOR DENSITY. 6. THE FRAME AND GRATE OR CLOSED LID TYPE SHALL BE AS SPECIFIED ON THE UTILITY PLAN. THE MANUAL FLORE SHALL BE A MACHINE SUBFACED NON PROCEDURE DESIGN ALL CASTINGS SHALL BE	AND FREE OF DIRT AND DEBRIS. SEDIMENTATION SHALL BE REMOVED FROM THE STORM SEWER SYSTEM AND SHALL NOT BE WASHED OUT INTO THE EXISTING STORM SEWER SYSTEM.	WHEREVER PRACTICABLE. 9. LONGITUDINAL JOINT DENSITY SPECIFICATIONS	1) LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF 10 FEET
E RESPONSIBILITY OF THE CONTRACTOR AND SHALL NOT BE CONSIDERED EXTRA WORK. IN THE EVENT THAT SOFT MATERIALS WITH CONFINED COMPRESSIVE STRENGTH LESS THAN 0.5 TSF ARE ENCOUNTERED DURING SEWER AND WATER MAIN CONSTRUCTION, THE NTRACTOR SHALL (UPON APPROVAL OF THE OWNER AND/OR ENGINEER) OVER-EXCAVATE TO A DEPTH OF AT LEAST ONE FOOT BELOW	MANHOLE LIDS SHALL BE A MACHINE SURFACED, NON-ROCKING DESIGN. ALL CASTINGS SHALL BE EMBOSSED WITH A FISH IMAGE AND "DUMP NO WASTE-DRAINS TO WATERWAYS" MESSAGE. THE CLOSED LIDS SHALL HAVE THE WORD "STORM" AND THE MUNICIPALITY NAME EMBOSSED ON THE LID. THE JOINT DESIGNATION OF THE MOST	9. THE TEMPORARY EROSION CONTROL MEASURES SHALL BE EFFECTIVELY IN PLACE UNTIL ALL THE PERMANENT EROSION CONTROL MEASURES ARE FULLY FUNCTIONAL.	A. COMPLETED LONGITUDINAL JOINTS SHALL BE ASSESSED BASED ON SECTION 1030 OF THE STANDARD SPECIFICATIONS AND THE "HOT MIX ASPHALT — DENSITY TESTING OF LONGITUDINAL JOINTS" (BDE)	2) THE WATER MAIN INVERT IS AT LEAST 18 INCHES ABOVE THE CROWN OF THE SEWER3) THE WATER MAIN IS IN A SEPARATE TRENCH.
THE BOTTOM OF THE PIPE. THE TRENCH SHALL BE BACKFILLED WITH COMPACTED CRUSHED STONE, PROPERLY FORMED TO FIT THE BOTTOM OF THE PIPE.	BETWEEN THE CONCRETE SECTION AND FRAME SHALL BE SEALED WITH A MASTIC COMPOUND. 7. ALL STORM SEWERS SHALL BE THOROUGHLY CLEANED PRIOR TO FINAL INSPECTION AND TESTING.	10. THE GUARANTEE PERIOD SHALL BEGIN AFTER ALL THE PERMANENT EROSION CONTROL MEASURES ARE FULLY FUNCTIONAL AND ACCEPTABLE TO OWNER OR HIS REPRESENTATIVE.	AS FOLLOWS: LONGITUDINAL JOINT DENSITY TESTING SHALL BE PERFORMED AT EACH RANDOM DENSITY TEST	c) Both the water main and drain or sewer shall be constructed of Pipe Equivalent To water main standards of construction when it is impossible to meet condition

31. THE CONTRACTOR SHALL RECORD VIDEO OF THE WORK AREA PRIOR TO CONSTRUCTION FOR THE PURPOSE OF DOCUMENTING EXISTING

AGGREGATE TRENCH BACKFILL WILL BE REQUIRED TO FULL DEPTH ABOVE ALL UNDERGROUND UTILITIES WITHIN TWO FEET OF PROPOSED OR EXISTING PAVEMENT, UTILITIES, BUILDINGS AND SIDEWALKS. AGGREGATE TRENCH BACKFILL SHALL BE INSTALLED IN ACCORDANCE WITH CURRENT IDOT STANDARD SPECIFICATIONS. TRENCH BACKFILL AND BEDDING MATERIAL SHALL CONSIST OF CRUSHED GRAVEL CONFORMING TO IDOT GRADATIONS CA-6 OR CA-7. AGGREGATE TRENCH BACKFILL SHALL BE PLACED IN CONTROLLED LIFTS (12 INCH LOOSE MEASURE TYPICAL FOR GRANULAR MATERIAL) WITH EACH LIFT VIBRATORY COMPACTED TO 95 PERCENT OF THE MAXIMUM DRY DENSITY BASED ON A MODIFIED PROCTOR TEST (ASTM D 1557), OR IN THE CASE OF OPEN GRADED STONE, TO A FIRM, DENSE STATE AS OBSERVED BY THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE PRIOR TO PLACEMENT OF THE NEXT LIFT. LIFT THICKNESS ADJUSTMENTS CAN ONLY BE DETERMINED/APPROVED BY THE GEOTECHNICAL ENGINEER (OR HIS REPRESENTATIVE) BASED ON THE SIZE/TYPE OF COMPACTING

33. WHERE SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER, EXISTING DRAINAGE STRUCTURES AND SYSTEMS SHALL BE CLEANED OF DEBRIS AND PATCHED AS NECESSARY TO ASSURE INTEGRITY OF THE STRUCTURE.

HYDRANTS SHALL NOT BE FLUSHED DIRECTLY ONTO THE ROAD SUBGRADES. WHEREVER POSSIBLE, HOSES SHALL BE USED TO DIRECT THE WATER INTO STORM SEWERS. DAMAGE TO THE ROAD SUBGRADE OR LOT AREAS DUE TO EXCESSIVE WATER SATURATION AND/OR EROSION FROM HYDRANT FLUSHING OR LEAKS IN THE WATER DISTRIBUTION SYSTEM, WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. FLUSHING OR USING THE HYDRANT TO MAKE ALL NECESSARY REPAIRS WILL BE AT HIS EXPENSE. THE CONTRACTOR SHALL PROVIDE ALL

AFTER THE STORM SEWER SYSTEM HAS BEEN CONSTRUCTED, THE CONTRACTOR SHALL PLACE EROSION CONTROL AT LOCATIONS SHOWN ON THE PLANS OR AS SELECTED IN THE FIELD BY THE ENGINEÉR. INLET PROTECTION (INLET BASKETS) SHALL BE INSTALLED IN EACH STRUCTURE AS SOON AS THE STRUCTURE INSTALLATION IS COMPLETE. THE PURPOSE OF THE EROSION CONTROL WILL BE TO MINIMIZE THE AMOUNT OF SILTATION, WHICH NORMALLY ENTERS THE STORM SEWER SYSTEM FROM ADJACENT AND/OR UPSTREAM DRAINAGE AREAS.

EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH ILLINOIS URBAN MANUAL AND SHALL BE MAINTAINED BY THE CONTRACTOR. EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL A SUITABLE GROWTH OF GRASS, ACCEPTABLE TO THE

UPON PROJECT COMPLETION, THE CONTRACTOR SHALL PROVIDE FINAL RECORD DRAWINGS TO THE OWNER AND ENGINEER FOR REVIEW PRIOR TO ANY REQUEST FOR FINAL INSPECTION. AT A MINIMUM, THE RECORD DRAWINGS SHALL INDICATE THE FINAL LOCATION AND LAYOUT OF ALL SITE IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO, VERIFICATION OF ALL BUILDING PAD AND FINISHED FLOOR ELEVATIONS, UTILITY RIM AND INVERT ELEVATIONS, KEY PAVEMENT SPOT GRADE ELEVATIONS, LOCATIONS OF ALL WATER SERVICE B—BOXES, SANITARY SEWER SERVICES, AND STORM SEWER SERVICES AND SHALL INCORPORATE ALL FIELD DESIGN CHANGES INCLUDING THOSE APPROVED BY THE OWNER, ENGINEER AND/OR PROJECT GOVERNING AUTHORITY. THE RECORD DRAWINGS SHALL ALSO INCORPORATE FIELD DESIGN CHANGES THAT WERE NOT APPROVED BY OWNER, ENGINEER AND/OR PROJECT GOVERNING AUTHORITY. RECORD DRAWINGS SHALL BE PREPARED BY OR UNDER THE DIRECT SUPERVISION OF A LICENSED PROFESSIONAL LAND SURVEYOR.

NORMALLY ENTERING THE STORM SEWER SYSTEM FROM ADJECENT AND/OR UPSTREAM DRAINAGE AREAS.

7. ALL STORM SEWERS SHALL BE THOROUGHLY CLEANED PRIOR TO FINAL INSPECTION AND TESTING. 8. AFTER THE STORM SEWER STRUCTURE HAS BEEN CONSTRUCTED, THE CONTRACTOR SHALL PLACE EROSION CONTROL AT LOCATIONS SHOWN ON THE PLANS OR AS SELECTED IN THE FIELD BY THE ENGINEER. THE PURPOSE OF THE EROSION CONTROL WILL BE TO MINIMIZE THE AMOUNT OF SILTATION

DOWNSTREAM FROM SUCH DEVELOPMENT SITES SHALL BE PROTECTED FROM EROSION AND

13. STORM SEWER INLETS SHALL BE PROTECTED WITH SEDIMENT TRAPPING OR FILTER CONTROL DEVICES

14. THE SURFACE OF STRIPPED AREAS SHALL BE PERMANENTLY OR TEMPORARILY PROTECTED FROM SOIL EROSION WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED, UNLESS A HALF INCH OR GREATER RAINFALL EVENT IS FORECAST PRIOR TO SEVEN DAYS. IN THIS OCCURRENCE, THE PROPER SOIL PROTECTION SHALL BE INSTALLED IMMEDIATELY. STRIPPED AREAS NOT AT FINAL GRADE THAT REMAIN UNDISTURBED FOR MORE THAN SEVEN DAYS AFTER INITIAL DISTURBANCE, SHALL BE PROTECTED FROM

15. WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING, IRRIGATION OR FIRE HYDRANT FLUSHING, SHALL BE FILTERED PRIOR TO LEAVING THE PROJECT SITE.

16. IF NECESSARY, GRAVELED ROADS, ACCESS DRIVES, PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH AND VEHICLE WASHDOWN FACILITIES, SHALL BE PROVIDED TO PREVENT THE DEPOSIT AND TRACKING OF

17. ALL CONTRACTORS SHALL COMPLY WITH SWPP PLAN AND NPDES REQUIREMENTS. A SIGNED SWPP PLAN SHALL BE KEPT ON FILE WITH OWNER OR GENERAL CONTRACTOR.

EROSION, UNLESS GRADING ACTIVITIES ARE RESUMED WITHIN 14 DAYS FROM WHEN ACTIVITIES CEASED.

SOIL ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL

11. STOCKPILES OF ANY KIND SHALL NOT BE PLACED IN SPECIAL MANAGEMENT AREAS. IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN SEVEN DAYS, THEN SEDIMENT AND EROSION CONTROL MEASURES SHALL BE PROVIDED FOR THE STOCKPILE.

12. IF THE VOLUME, VELOCITY, SEDIMENT LOAD OR PEAK FLOW RATES OF STORM WATER RUNOFF ARE TEMPORARILY INCREASED DURING CONSTRUCTION, THEN PROPERTIES AND SPECIAL MANAGEMENT AREAS

TEMPORARY COVER SHALL BE MAINTAINED CONTINUOUSLY UNTIL PERMANENT COVER IS ESTABLISHED.

1. CONFINED EDGE: EACH CONFINED EDGE DENSITY TEST SHALL BE REPRESENTED BY A ONE MINUTE NUCLEAR DENSITY READING OR A CORE DENSITY. THE TESTING SHALL BE INCLUDED IN THE AVERAGE OF DENSITY READINGS OR CORE DENSITIES TAKEN ACROSS THE MAT, WHICH REPRESENTS THE INDIVIDUAL TEST. 2. UNCONFINED EDGE: EACH UNCONFINED EDGE JOINT DENSITY TEST SHALL BE REPRESENTED BY AN AVERAGE OF THREE, ONE MINUTE DENSITY READINGS OR A SINGLE CORE DENSITY AT THE GIVEN DENSITY TEST LOCATION. THE TESTING SHALL MEET THE DENSITY REQUIREMENTS SPECIFIED HEREIN. THE THREE, ONE MINUTE READINGS SHALL BE SPACED TEN FEET APART LONGITUDINALLY

ALONG THE UNCONFINED PAVEMENT EDGE AND CENTERED AT THE RANDOM DENSITY TEST

EITHER A CORRELATED NUCLEAR GAUGE OR CORES.

LONGITUDINAL JOINT DENSITY TESTING SHALL BE PERFORMED AT EACH RANDOM DENSITY TEST LOCATION. LONGITUDINAL JOINT TESTING SHALL BE LOCATED AT A DISTANCE EQUAL TO THE LIFT THICKNESS OR A MINIMUM OF TWO INCHES FROM EACH PAVEMENT EDGE; I.E. FOR A FOUR INCH LIFT, THE NEAR EDGE OF THE DENSITY GAUGE OR CORE BARREL SHALL BE WITHIN FOUR INCHES

FROM THE EDGE OF PAVEMENT. LONGITUDINAL JOINT DENSITY TESTING SHALL BE PERFORMED USING

DENSITY CONTROL LIMITS TABLE

MIXTURE COMPOSITION	PARAMETER	INDIVIDUAL TEST (INCLUDES CONFINED EDGES)	UNCONFINED EDGE JOH DENSITY MINIMUM		
IL-9.5, IL12.5	Ndesign >= 90	92.0-96.0%	90%		
IL-9.5, IL9.5L, IL-12.5	Ndesign < 90	92.5-97.4%	90%		
IL-19.0, IL-25.0	Ndesign >= 90	93.0-96.0%	90%		
IL-19.0, IL-19.0L, IL-25.0	Ndesign < 90	93.0-97.4%	90%		
SMA	Ndesign = 50 & 80	93.5-97.4%	91%		
ALL OTHER	Ndesian = 30	93 0-97 4%	90%		

(a) OR (b) ABOVE. THE DRAIN OR SEWER SHALL BE PRESSURE TESTED TO THE MAXIMUM EXPECTED SURCHARGE HEAD BEFORE BACKFILLING.

a) A WATER MAIN SHALL BE LAID SO THAT ITS INVERT IS 18 INCHES ABOVE THE CROWN OF THE DRAIN OR SEWER, WHENEVER WATER MAINS CROSS STORM SEWERS, SANITARY SEWERS OR SEWER SERVICE CONNECTIONS. THE VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATER MAIN LOCATED WITHIN 10 FEET HORIZONTALLY OF ANY SEWER OR DRAIN CROSSED. A LENGTH OF WATER MAIN PIPE SHALL BE CENTERED OVER THE SEWER TO BE CROSSED WITH JOINTS EQUIDISTANT FROM THE SEWER OR DRAIN.

b) IF IT IS IMPOSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION AS DESCRIBED IN (a) OR THE WATER MAIN PASSES UNDER A SEWER OR DRAIN, THEN ONE OF THE FOLLOWING METHODS SHALL BE FOLLOWED:

1) THE STORM DRAIN SHALL BE CONSTRUCTED OF "O" RING JOINTS AND SANITARY SEWER SHALL BE CONSTRUCTED WITH PIPE EQUIVALENT TO WATER MAIN STANDARDS.

2) THE WATER MAIN MAY BE ENCASED IN A WATERTIGHT CARRIER PIPE AS INDICATED ON THE PLANS AND AS PER THE SPECIAL CROSSING DETAIL SHOWN ON THE DETAIL SHEET.

c) A VERTICAL SEPARATION OF 18 INCHES BETWEEN THE INVERT OF THE SEWER OR DRAIN AND THE CROWN OF THE WATER MAIN SHALL BE MAINTAINED WHERE A WATER MAIN CROSSES UNDER SEWER. SUPPORT THE SEWER OR DRAIN LINES TO PREVENT SETTLING AND BREAKING d) CONSTRUCTION SHALL EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE NORMAL DISTANCE FROM THE WATER MAIN TO THE SEWER OR DRAIN LINE IS AT LEAST 10 FEET.

NOTE: IF SPECIFICATIONS AND/OR DETAILS PROVIDED IN THESE PLANS CONFLICT WITH THE CITY OF NAPERVILLE SPECIFICATIONS AND/OR DETAILS, THE CITY OF NAPERVILLE SHALL SUPERCEDE.

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SPECIFICATION

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CITY OF NAPERVILLE GEOMETRIC & PAVING NOTES	CITY OF NAPERVILLE STORM SEWER NOTES	CITY OF NAPERVILLE WATER UTILITIES GENERAL NOTES
The process and compared to the process of the commence of the process and the commence of the	1. SO CONTROLLED ON LOSS FOR AREA STOPS SAME HAT A FIRM MICH PREVIOUS TO THE CONTROLLED AND A STOPPED CONTROLLED AND A S	IN INC. WITTEN WAN WOMEN, NICLUSING PRESSARE TOP WANCE, ADACTAT TO AN EXCELLING WHEE WAN, AND CUSTOM WHITE WANCES SHALL ONLY OF OFFICIAL PROPERTY OF THE CONTROL OF THE CON
		PLANS CONFLICT WITH THE CITY OF NAPERVILLE SPECIFICATIONS AND/OR DETAILS, THE CITY OF NAPERVILLE SHALL SUPERCEDE.

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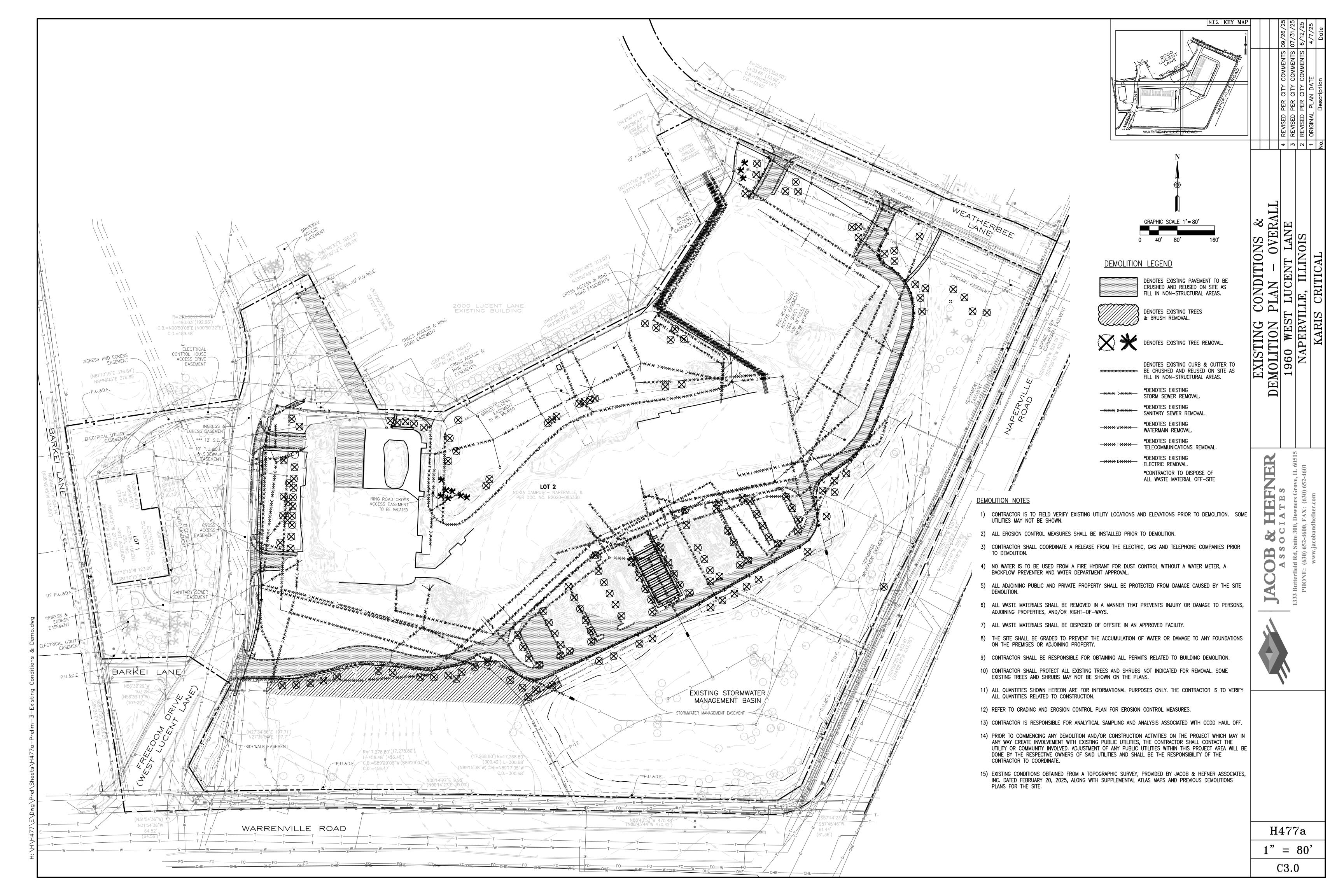
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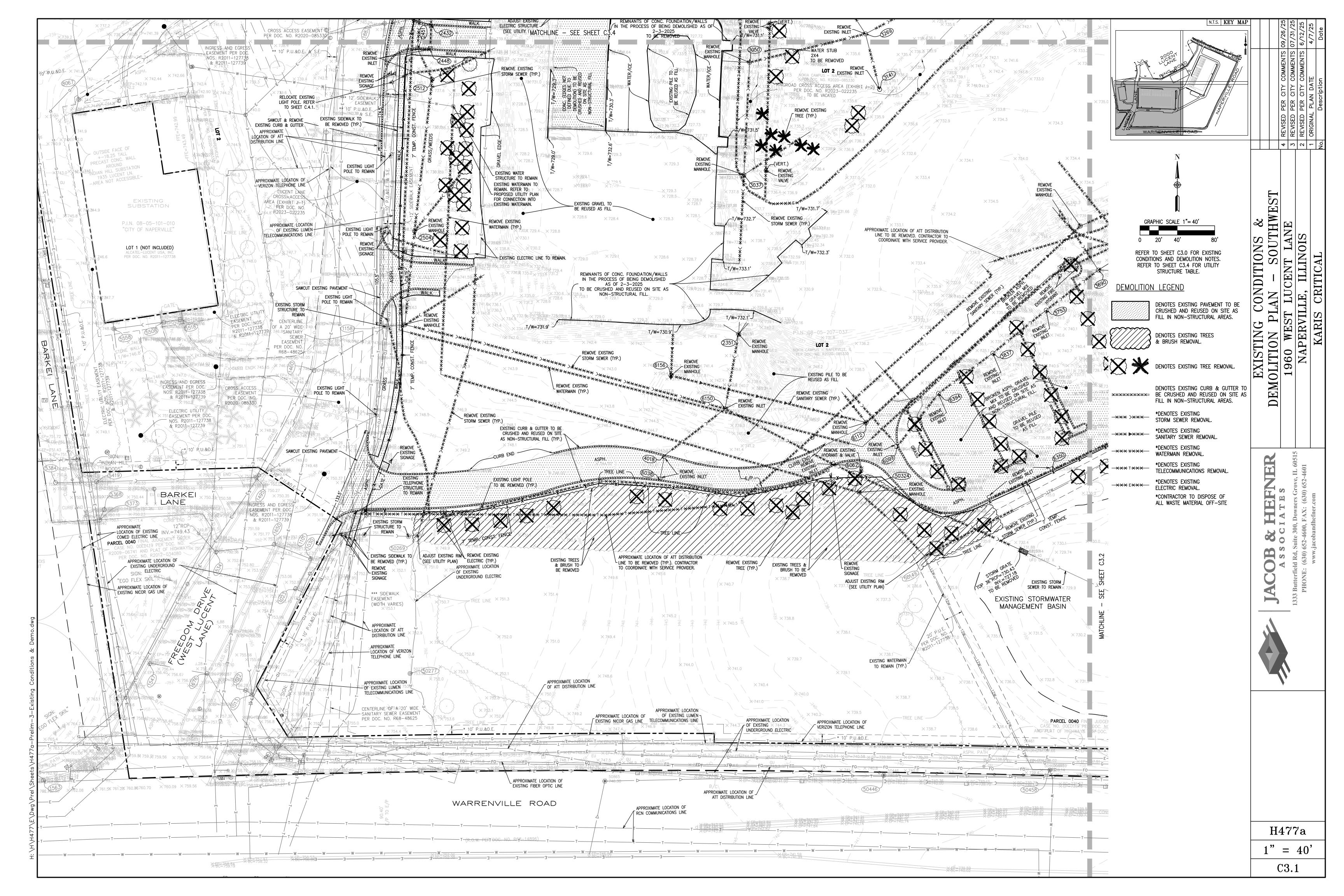
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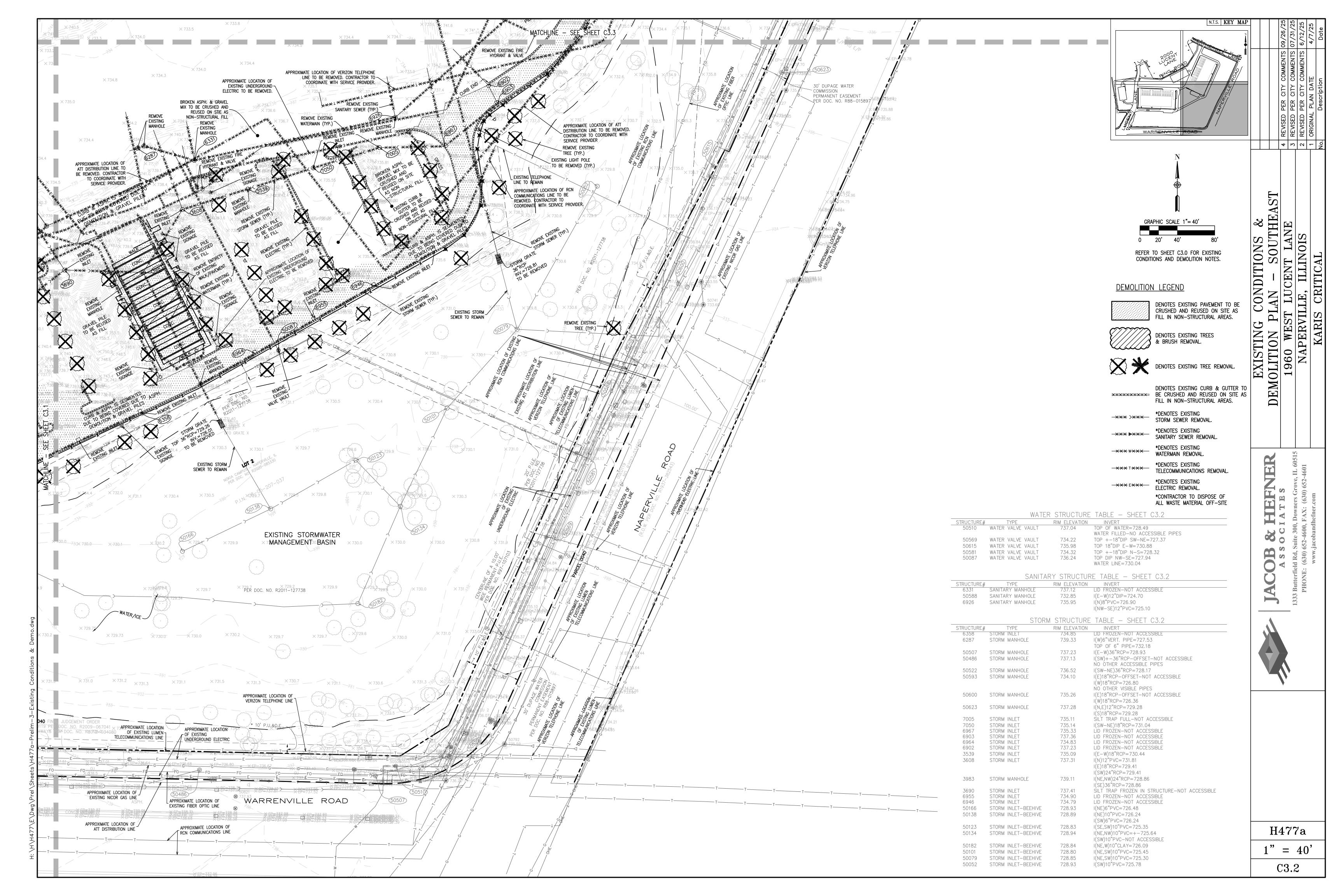
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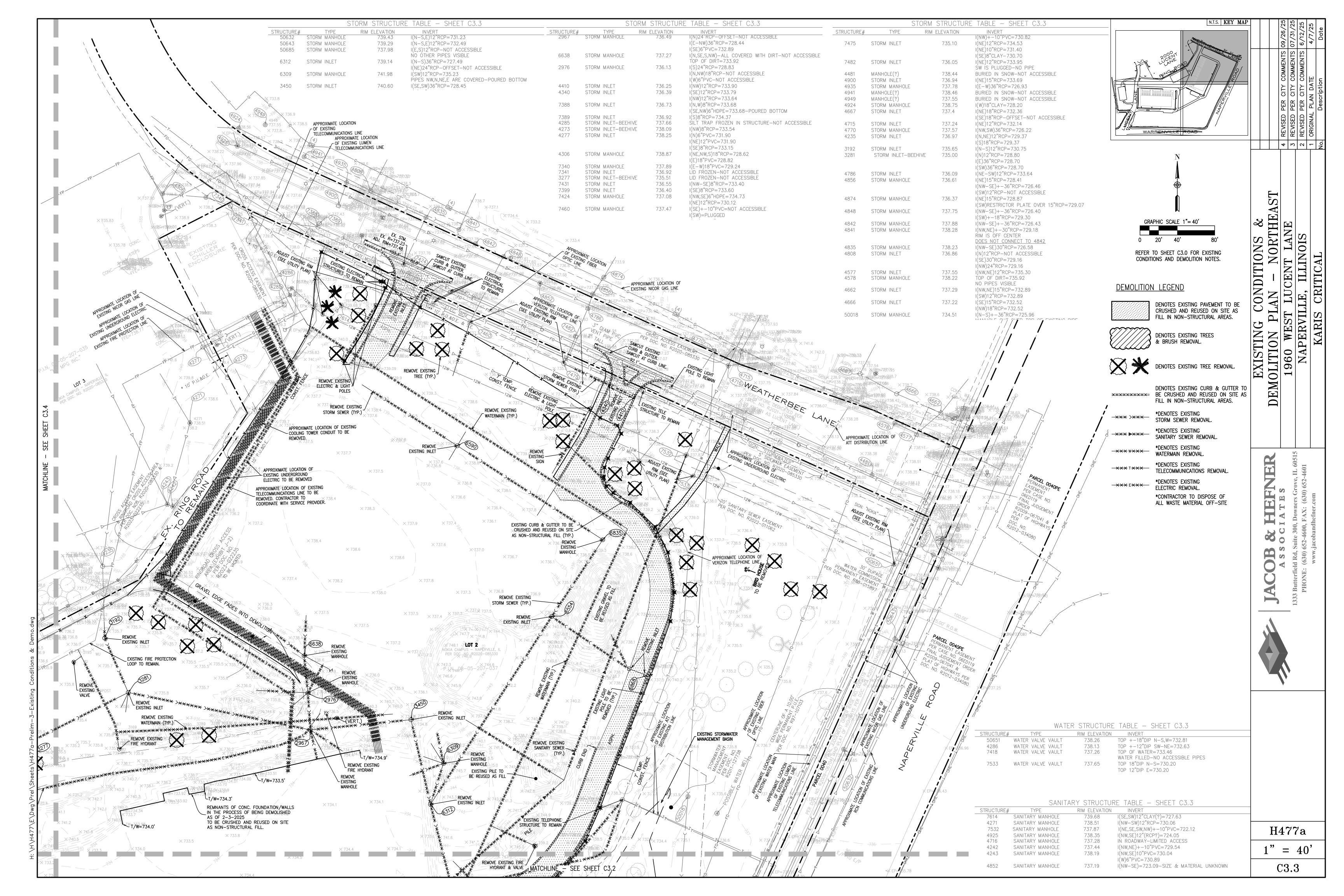
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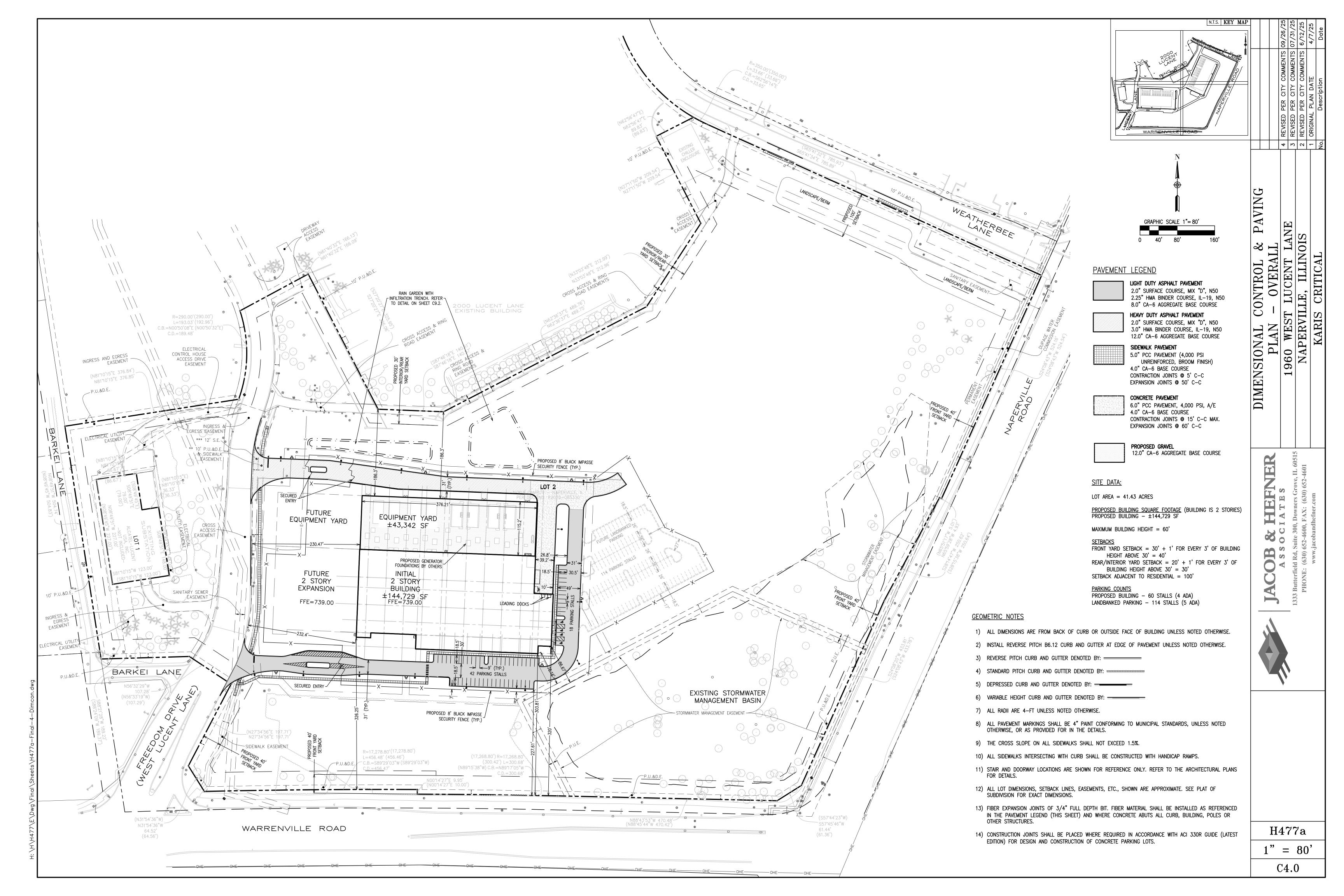


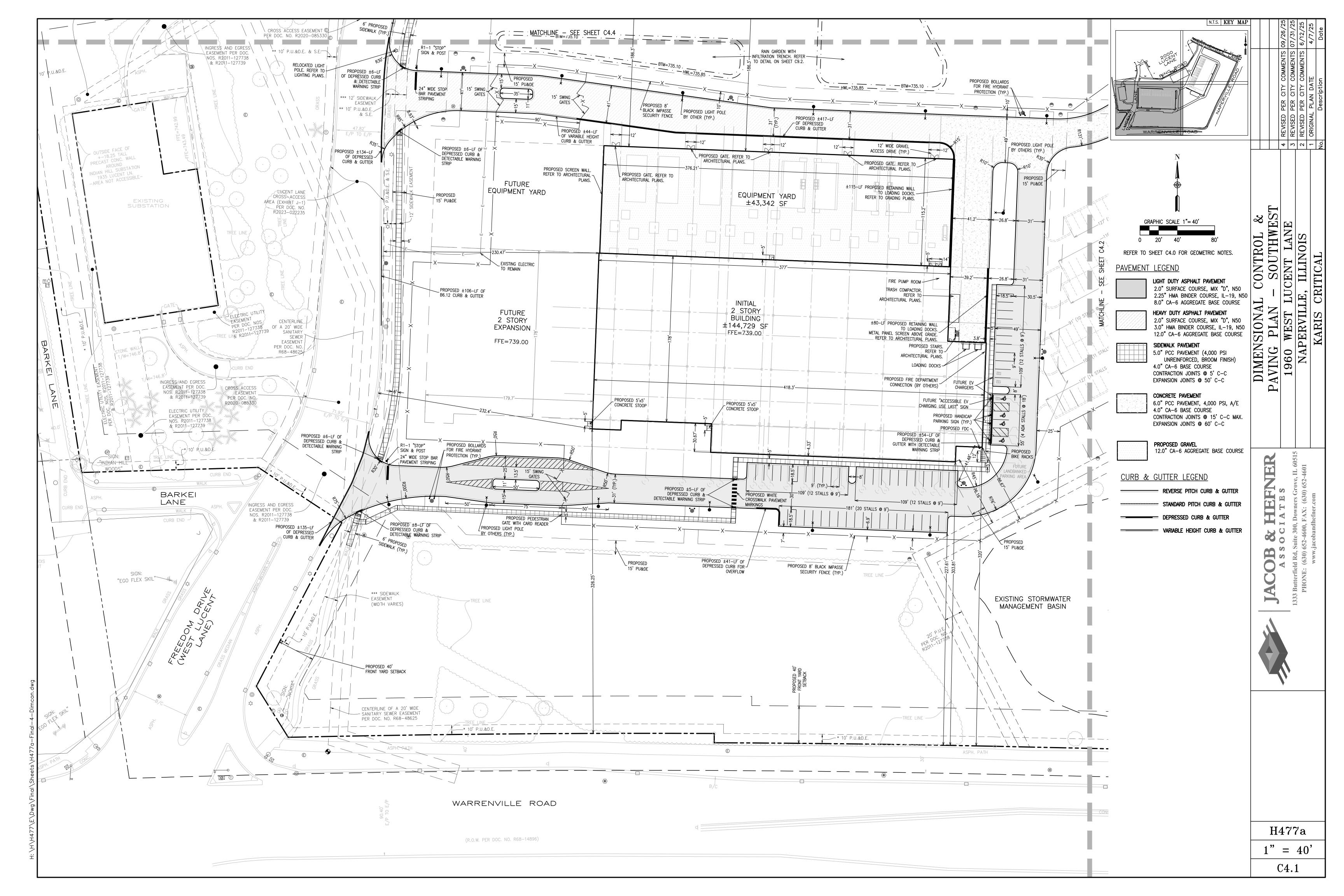


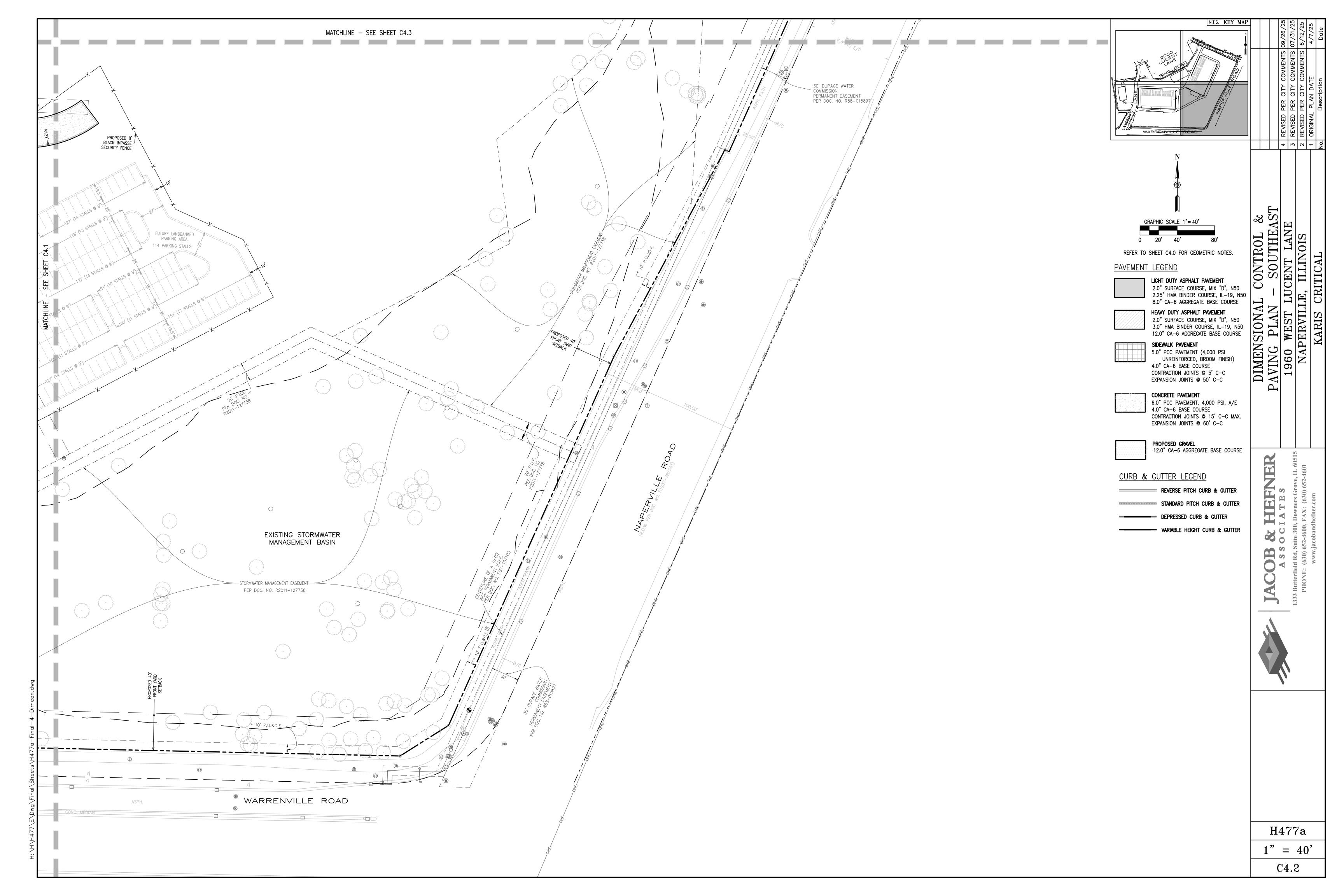


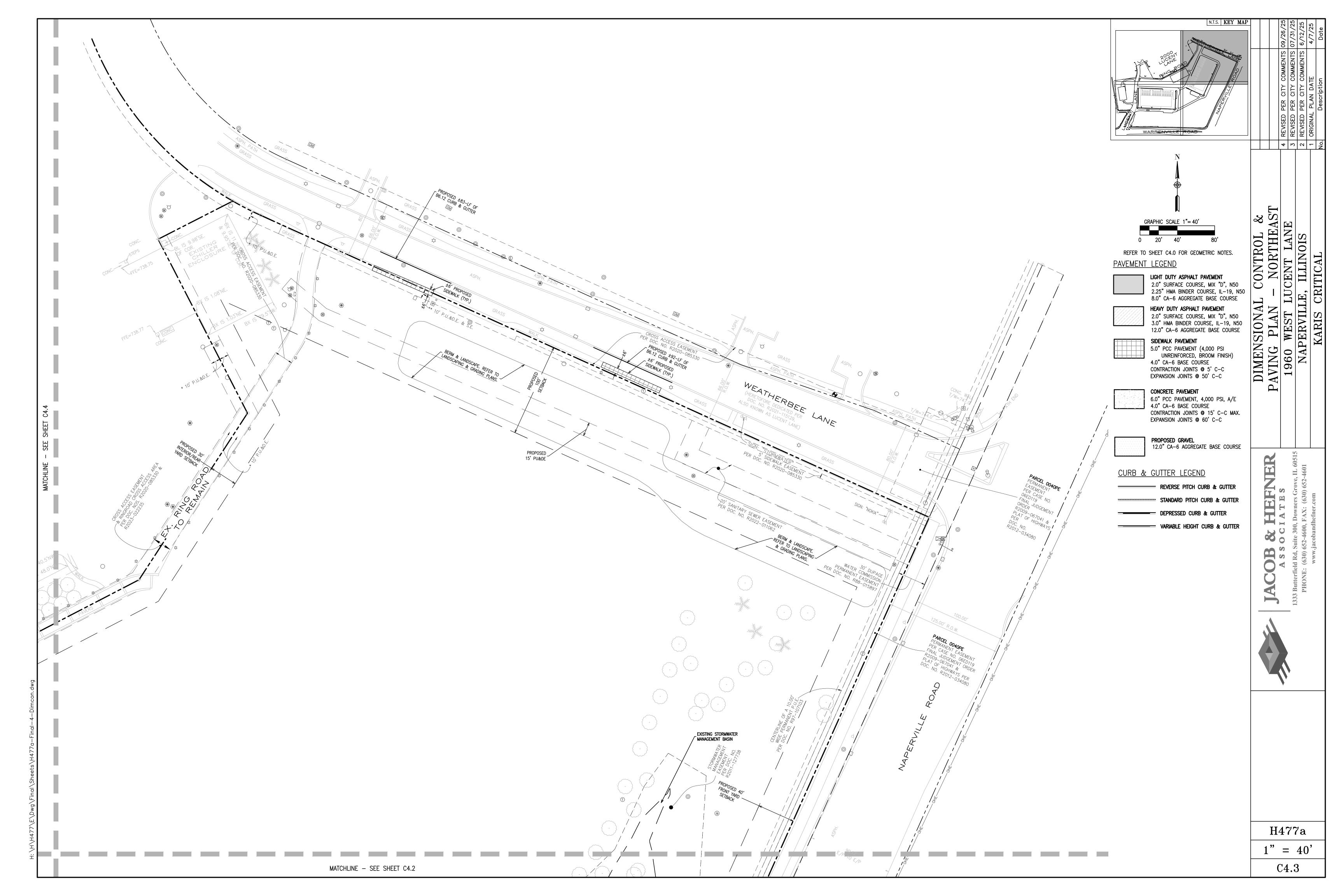


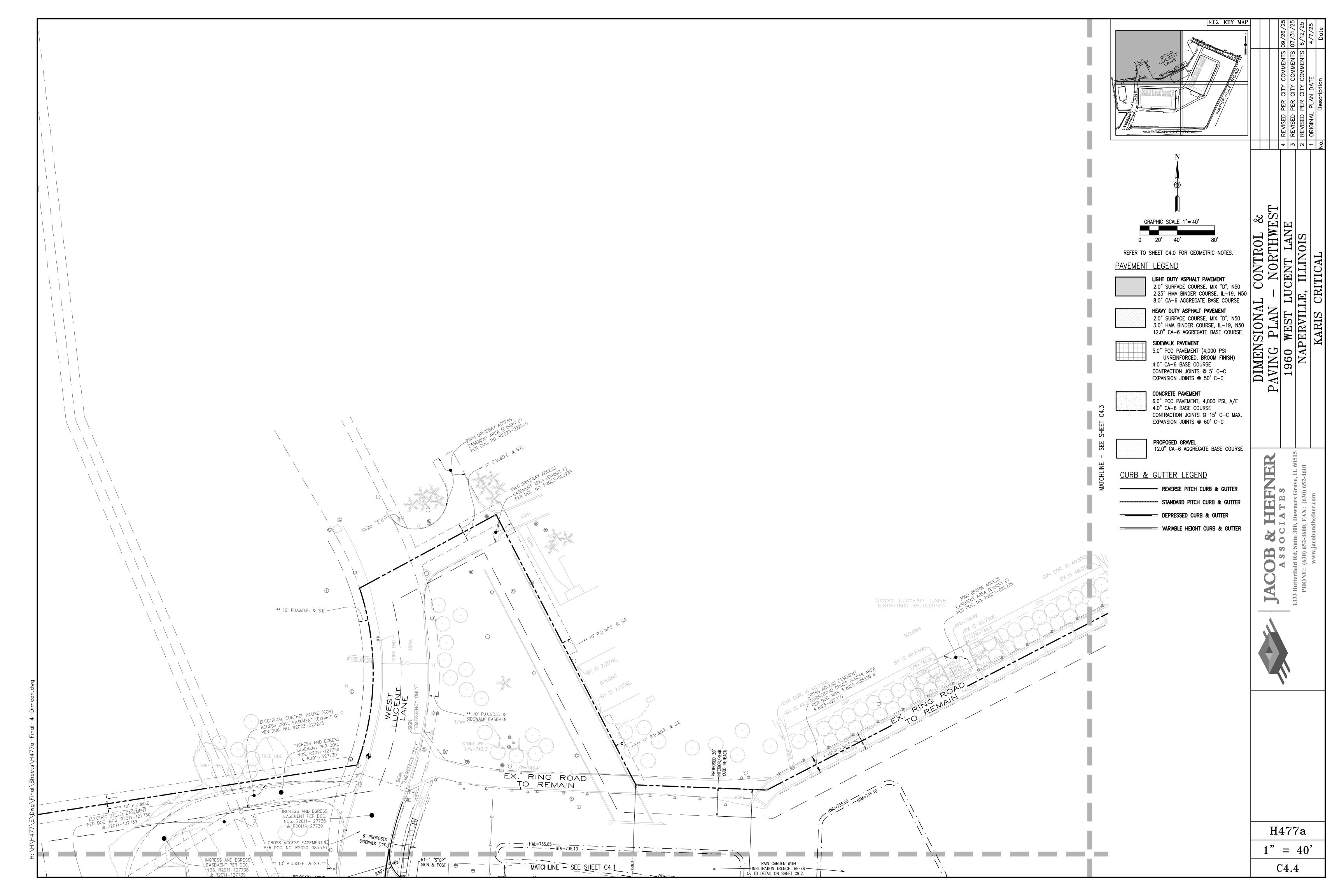
	WATER STRUCTUE	DE TADIE CUEET CZ 4	WA TED			STORM STRUCTUR	E TABLE — SHEET C3.1	N.T.S. KEY MA	
	STRUCTURE# TYPE RIM ELEVATIO 1346 WATER VALVE VAULT 738.65	TOP DIP=731.95		STRUCTURE TABLE — SHEET C3.1 RIM ELEVATION INVERT 740.50 TOP 12"DIP N=731.30	1883 "MANHOLE	YPE RIM ELEVATION E(?) 740.21	INVERT WATER FILLED-TOP OF WATER=736.91		/26//31/
	2031 WATER VALVE VAULT 740.33	WATER FILLED TOP +-8"DIP N-S=734.88	50149 WATER VALVE VAULT	TOP +-18"DIP NW-SE=731.30 737.45 TOP +-18"DIP NW-SE,SW-NE=731.40	1460 STORM II 1158 STORM N		I(NE)18"RCP=739.96 I(SW)18"RCP=739.76 I(E-W)12"RCP=739.17		17S 09 17S 07 17S 6,
			50458 WATER VALVE VAULT	739.14 TOP +-12"DIP E-W=731.44 WATER LINE=733.14	2504 STORM N	MANHOLE 744.30	I(N-S)24"RCP=729.60 I(NE)+-8"RCP(DROP)-NOT ACCESSIBLE	John Schie	COMMENT
		RE TABLE - SHEET C3.4	_		2512 STORM II 2448 STORM II		I(S)24"RCP=729.95 I(NW)18"RCP=729.95 I(N)8"RCP=736.16		
	STRUCTURE# TYPE RIM ELEVATIO 1406 STORM INLET 737.62	N INVERT I(NE)12"RCP=735.92 I(SW)12"RCP=735.77		RY STRUCTURE TABLE — SHEET C3.1	2432 STORM II		I(W)12"RCP=736.16 I(N)8"PVC=736.23		PER CITY PER CITY PER CITY PER CITY
	1398 STORM MANHOLE 737.64	I(NE)12"RCP=735.44 I(SE)6"PLASTIC=735.54		RIM ELEVATION INVERT 737.95 I(N)6"DIP=733.00	2451 STORM IN	NLET 739.05	I(S)8"RCP=736.18 I(N-SE)18"RCP=730.20		
	1399 MANHOLE(ELECTRIC?) 737.19	I(NW)6"PLASTIC=735.44 DEBRIS FILLED WATER FILLED-TOP OF WATER=731.29	2351 SANITARY MANHOLE?	I(SE)8"DIP=733.00 741.91 I(N,NE,E)8"PVC(DROP)NOT ACCESSIBLE	1030 STORM II 1101 STORM II	NLET 752.08 NLET-BEEHIVE 751.56	I(E)12"RCP-NOT ACCESSIBLE I(S)12"RCP-NOT ACCESSIBLE I(N)12"DIP=748.26	WARRENVILLE ROAD	REVISED REVISED REVISED ORIGINAL
	1414 STORM MANHOLE 738.79	EXPOSED ELECTRIC WIRES INSIDE I(NW)6"PLASTIC=736.29	50446 SANITARY MANHOLE	I(SE)8"PVC(DROP)=735.26 I(W)RCP=733.61-SIZE UNKNOWN 740.68 WATER LINE=735.68-NO PIPES VISIBLE	1013 STORM N		I(NE)18"RCP-OFFSET-NOT ACCESSIBLE I(SE)24"RCP=748.34		4 W V -
	1284 MANHOLE 739.21 1296 STORM INLET 737.65	I(S)6"PVC=736.39 FULL OF SOIL-TOP OF SOIL=738.01 I(SE)12"RCP=735.30	33.13	, , , , , , , , , , , , , , , , , , , ,	1023 STORM I	NLET 752.76	I(NW,W)12"RCP(DROP)-OFFSET-NOT ACCESSIBLE I(N)12"RCP=748.71 I(S)18"RCP=748.76	\mathbf{N}	
	1377 STORM INLET 740.89	I(NE)12"CLAY=732.79 S. PORTION OF STRUCTURE RECESSED— NO OTHER ACCESSIBLE PIPES			1012 STORM II 1495 STORM N		I(SE)12"RCP=750.86 I(S)12"RCP=741.91	A	
	1272 STORM MANHOLE 739.15	I(N)18"RCP=730.55 I(S)18"RCP=730.65			1650 STORM IN	NLET 752.21	I(NW)RCP-NOT ACCESSIBLE I(W)12"RCP=748.86 I(E)12"RCP-OFFSET-NOT ACCESSIBLE	•	
	1430 STORM INLET 739.62	I(SW)12"RCP=734.05 I(NE-SW)12"RCP=737.12			1534 STORM IN	NLET 752.28	I(E)12"RCP=749.13 I(NW)12"RCP=749.38		EST
	1883 MANHOLE(?) 740.21 2448 STORM INLET 738.76	WATER FILLED-TOP OF WATER=736.91 I(N)8"RCP=736.16 I(W)12"RCP=736.16			1547 STORM II 1676 STORM II		I(E)12"RCP=751.73 I(SE)12"RCP=749.80	GRAPHIC SCALE 1"= 40'	HWI TE
	2432 STORM INLET 738.68	I(N)8"PVC=736.23 I(S)8"RCP=736.18			1563 STORM II 6150 STORM II	NLET 762.09 NLET-BEEHIVE 735.40	I(W)12"RCP=750.15 I(NW)12"DIP=759.64 NOT ACCESSIBLE DUE TO ICE AND SILT		KTH RTH LANE
	2451 STORM INLET 739.05 2245 STORM MANHOLE 736.42	I(N-SE)18"RCP=730.20 I(E)12"RCP-NOT ACCESSIBLE I(N-S)18"RCP=730.57			6038 STORM IN 6112 STORM IN 6062 STORM IN	MANHOLE(?) 736.44	LID FROZEN-NOT ACCESSIBLE LID FROZEN-NOT ACCESSIBLE LID FROZEN-NOT ACCESSIBLE	0 20' 40' 80' REFER TO SHEET C3.0 FOR EXISTING	
	3050 STORM MANHOLE 736.19	I(SW)12"RCP=730.29 I(E)18"RCP=730.29			6099 STORM IN 6350 STORM IN	NLET 735.02 NLET 734.87	LID FROZEN—NOT ACCESSIBLE LID FROZEN—NOT ACCESSIBLE	CONDITIONS AND DEMOLITION NOTES.	DITTIO - NC CENT ILLIN
	3269 STORM INLET—BEEHIVE 735.01 3102 STORM INLET 735.54	LÌD FROZEN-NOT ACCESSIBLE I(N)18"RCP=729.64 I(S)24"RCP=729.64			50269 STORM II 50277 MANHOLE 4018 STORM II	E 753.56	I(NE,W)12"RCP=745.25 FULL OF DIRT—TOP OF DIRT=751.96 LID FROZEN—NOT ACCESSIBLE		
	3081 STORM INLET 736.16 3273 STORM INLET-BEEHIVE 735.39	I(SE)8"RCP=731.08 LID FROZEN-NOT ACCESSIBLE			3690 STORM IN 3837 STORM IN	NLET 737.41	SILT TRAP FROZEN IN STRUCTURE—NOT ACCESSIBLE STRUCTURE DAMAGED—SILT TRAP FROZEN NOT ACCESSIBLE	<u>DEMOLITION LEGEND</u>	AN LUC LUC LE,
	3277 STORM INLET—BEEHIVE 735.51 5789 STORM INLET 740.09 5765 MANHOLE(?) 737.53	LID FROZEN-NOT ACCESSIBLE I(E,SW,S)12"RCP=737.54 WATER LINE=731.38			3753 STORM II 6394 STORM II	NLET 734.88	I(E-W)18"RCP=730.25-STRUCTURE DAMAGED SILT TRAP FROZEN IN STRUCTURE-NOT ACCESSIBLE	DENOTES EXISTING PAVEMENT TO BE CRUSHED AND REUSED ON SITE AS FILL IN NON-STRUCTURAL AREAS.	
		BOTTOM OF STRUCTURE=727.33 TOP 2"STEEL PIPE(NE)736.63			3050 STORM N 3037 STORM N		I(SW)12"RCP=730.29 I(E)18"RCP=730.29 I(NW)8"PVC(?)=732.65	FILL IN NON-STRUCTURAL AREAS.	
	2017 STORM INLET-BEEHIVE 738.00	LOOSE ELEC. WIRES INSIDE STRUCTURE I(NE,SW)15"RCP=731.00 I(N)15"CLAY(DROP)ICED OVER—NOT ACCESSIBLE					I(NE)12"RCP=732.65 NO OTHER VISIBLE PIPES	DENOTES EXISTING TREES & BRUSH REMOVAL.	PEIN WI
	5042 STORM INLET-BEEHIVE 736.50 2046 STORM MANHOLE 738.46	I(NW)6"PVC=734.65 I(NE-SW)8"PVC=731.76			3141 STORM IN 8067 STORM M		LID FROZEN-NOT ACCESSIBLE I(NE)12"RCP=738.39 I(SW)4"PVC=738.54		IST TTI 60 NAJ
	3204 STORM INLET 736.08	I(SE)6"PVC=733.41 I(NW)6"CLAY=730.98 I(S)4"PVC=732.08			5518 STORM IN 5508 STORM IN		I(W)12"PVC=740.52 I(E)12"PVC=740.43	DENOTES EXISTING TREE REMOVAL.	EXIS OLITI 1960 NA
		.(6)6.762.66			5558 STORM N	MANHOLE 747.77	I(W)12"RCP=740.43 I(N,E)12"RCP=740.57 I(S)4"PVC(DROP)-NOT ACCESSIBLE	DENOTES EXISTING CURB & GUTTER TO	$ \mathbf{z} $
						NLET-BEEHIVE 749.49 NLET-BEEHIVE 749.29	I(E)12"RCP=745.39 I(S,W)12"RCP=745.04	BE CRUSHED AND REUSED ON SITE AS FILL IN NON-STRUCTURAL AREAS.	DE
		.cs5 ()			5368 STORM IN		I(SW)12"RCP=746.93 I(N)12"RCP=745.15	*DENOTES EXISTING STORM SEWER REMOVAL.	
		DRIVEWAY ACCESHIBIT 12235 DRIVEWAY ACEXHIBIT 22235			50166 STORM II	NLET-BEEHIVE 728.93	I(NE)12"RCP=745.35 6"PVC=746.40 I(NE)6"PVC=726.48	*DENOTES EXISTING SANITARY SEWER REMOVAL.	
		2000 MENT NO. TO			50138 STORM IN	NLET-BEEHIVE 728.89	I(NE)10"PVC=726.24 I(SW)6"PVC=726.24	*DENOTES EXISTING	
		10. P.N. 39.6			50123 STORM IN 50134 STORM IN	NLET-BEEHIV 728.83 NLET-BEEHIVE 728.94	I(SE,SW)10"PVC=725.35 I(NE,NW)10"PVC=+-725.64 I(SW)10"PVC-NOT ACCESSIBLE	WATERMAIN REMOVAL.	8 0515
`\\\		*740.9 40 × 740.2 WA	ACCESS T F) 35		50182 STORM IN 50101 STORM IN	NLET-BEEHIVE 728.84 NLET-BEEHIVE 728.80	I(NE,W)10"CLAY=726.09 I(NE,SW)10"PVC=725.45	*DENOTES EXISTING TELECOMMUNICATIONS REMOVAL.	e, IL 2-460
		38.7 BE 737.96 737.96 740.80 DRIVE AR 1960 MENT WE EASE DOC. WE	60.820 ≥ B6=739.42		50052 STORM IN	NLET-BEEHIVE 728.85 NLET-BEEHIVE 728.93	I(NE,SW)10"PVC=725.30 I(SW)10"PVC=725.78	*DENOTES EXISTING ELECTRIC REMOVAL.	S Grov (Grov (65))
	398	BP=739.80738.19 BP=739.98 739.738.19 BP=739.738.19 BP=739.98 PP=739.98 PP=739.98 PP=739.98 PP=739.98 PP=739.738	.86× 739.23		50018 STORM N	MANHOLE 734.51	I(N-S)+-36"RCP=725.96 MANHOLE CUT OVER TOP OF EXISTING PIPE	*CONTRACTOR TO DISPOSE OF ALL WASTE MATERIAL OFF—SITE	T E T E K: (63 K: (63 er.co.
	738.03 "EXX"	738.83 EP=738.03 × 739.52 × 73	739.49 7 739.4						I A I O, Doy D, FAX dhefn
	757.93 757.95.2 758.09 757.95.2 758.09	738.87 738.87 74.80 74.8	< 6 09-32 =739-33 -55-741 → 741.3						O C C C C-4600 C C C C C C C C C C C C C C C C C C
	× 737.4	REMOTING COLE 1/38	740.9 WALL BEGIN				■×→		S S (1) (1) (2) (2) (2) (3) (5) (4) (5) (4) (4) (5) (4)
	738 773.26	S(G) 739.2 7	EP=739.64 TW=742						A : A : E : (63
	APPROXIMATE LOCATION OF ATT DISTRIBUTION LINE 739	738.41 (B) = 73.810 (A) .40.4 × 738.6	2278 EP=739.63 36.08P=739.43 FC=739.80739.2				ACCESS (E) 5 ×738.6		utterd
` \ \ \ \E	E—————————————————————————————————————	J.4 E W= 7/2,72	ER=739.38		2000	D LUCENT LANE 2000 BTING BUILDING EAST	BRIDGE (EN 0/L) VI AREA 2023-0/L		333 B
	** 10' P.U.&D.E. & S.E.	738.8 × 738.4 × 738.4 × 733.7	7 X X X X X X X X X X X X X X X X X X X		EXIS	STING BUILDING EAST OF PER DE	738.5	THE CONTRACTOR OF THE CONTRACT	
LOT 3 NOKIA CAMPUS - NAPERVILLE, IL NOKIA CAMPUS - NO. R2020 -085330	E × 7382	6.738.7738.5b 7740.9 × 738.7 E	1428 85E	201-201-	335	IN DING	738.7 140.4 738.92	36.2	4.
PER DOO	× 738% 738.8	739.0 × 738.6	732.5 × 738.8 × 737.2 × 738.92	of OF PILM: "MS MPO	3 NAPERVILLE IL NAPERVILLE IL	ROM 3	736.5 5 6.88	736. × 73	
	APPROXIMATE LOCATION OF EXISTING FIRE PROTECTION LINE	APPROXIMATE 7 38.6 LOCATION OF EXISTING	FE 83 12 WALL WITH REMAIL	N LOCATIO LINE REROXIMATE LOC GAS LINE NOKIA CAMPUS NOK	ROW	MATE LOCATING ELECTRIC AD T T T T T T T T T T T T T	37.8 REMOVE REMOVE 736.6		
	APPROXIMATE LOCATION OF EXISTING UNDERGROUND ELECTRIC 739	NICOR GAS LINE 742.0	55.7	EXISTING	SEMENT S AREA WY	GROUNU 738.5	735.6 736.9 FRS5.9	3 3	
08-05-207-	-035 Q 5753	738.5	BULU FW=742.75 BW=739.51 FW=742.74 FW=42.74		ACCESS (ROSS ACCESS (ROSS) ACC	END TO END END TO END	736.9 735.4 735.4 735.4 735.4 735.4 735.4	8 	•
P.I.N. "NS MPG INC."	× 7367657388 7529736.78 7507 0 W	Ш Ö х 739.6 х	× 730.6	EC=738.0068	CRO RINGOC. NO.235 8 RINGOC. NO.235 PER 2023-02225 M.738.6	737.7 G A 735.5 V	36.98 × 735.4	0 0	
, ELEC	TRICAL CONTROL HOUSE (ECH)	** 10' P.U. &D.E. & 40.6 40.0239.46 ** 10' P.U. &D.E. & 40.6 EXISTING GROUND	ABOVE 739	737.8	738,6	REMOVE EXISTING INLE	T X 735.4 735.6	,, *	
.5 × 736.8 × 736.4 × 737.3 × 737.1 × 735.6 × 738.6 × 738.2 × 739.5 × 7	SESS DIVIDE R2023-U22200 G X GUS8.4 × 73847738 737 1 × 759.6U X	REMOVE EXISTING - VALVE 1483 REMOVE EXISTING - VALVE EXISTING	13/w 7/6/20 6 3 2 300 Nove 20 10 10 10 10 10 10 10 10 10 10 10 10 10	ENSTING PRINCE ATTACHED 2408 740.	\$6 \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	736.20 736.35.5 BRIDGE 736.2 ROOM CESS	REMOVE TO TRANSPORT TO THE PROPERTY OF THE PRO		
×736.3 ×736.5 ×1735.7	G X 73 EASEMENT PER DOC.	739.X7740.1 SILVE WALL G X TW-745.3 FT X 740.40 TW-745.3 FT X 740.40 TW-745.3 FT X 740.40 TW-745.5	742.8 TWE 742.8	STRUITES 741.0 × 747.8 × 747.8 × 747.8	08BRHNG 7743 × 7 2 2 0 E 0 80 E 5 73 F 10 C F	E 1736 736 2 MENT 1817 EASEMENT 1817 EASEMENT 1817	ENO: X 735.5 (527) X 5.5.5	7 7 7 8 9 9 9 9 9 9 9 9 9 9	
7.9 × 736.7 × 735.7 × 735.7 TREE LINE	& R2011 127.059 BC=759.88 2	WATER STUB (2031) WE 743 A	J/W=742.7' W 1750.	APPROXIMATE LOCATION OF EXISTING LUMEN	736 CONS. EDUS TEMP. CONC. EDUS 1 TEMP. CONC.	**************************************	VACANT 19.55.9	8 -	
×735.8 ×736.9 ×736.9 ×736.9	× 739.3	2X4 (VERT.) EX. RII	NG ROAD 1/W=742.7'	TELECOMMUNICATIONS LINES EP=730.85 EP=730.85	735.3 2735.3 2735.3 2735.3	× 735.4	735.6 × 735.8 × 735.7 × 735.8 × 735.7	★	
9 × 736.5 - 736.2 × 736.2	REMOVE EXISTING WATERMAIN (TYP.)	T 7' TEMP. CONS	ST. FENCE	736,57 FC = 736,57	36:29 × 736-53. 735.2 × 735.14 REMOVE × 735	EXISTING FIRE PROTECTION LOOP TO REMAIN.	735.735.8 × 736.735.8 × 736.735.8	30.1 37	
10', P.U.&D.E. 12"RCP 1	EXISTING LIGHT POLE TO REMAIN POLE TO REMAIN	SAWCUT AND REPEACE EXISTING PAVEMENT FOR 73 WATERMAIN REMOVAL	REMOVE EXISTING CONC. /WALL A" VEDTICAL DIDE	772 EP = 16.16	EXISTING INLET	× 735.	X 7 X X X X X X X X X X X X X X X X X X		
X 737.3 X 136.6 ELECTRIC UTILITY EAST 127738 PER DOC. NOS. R2011-127739 R R2011-127739	EASEMENT PER DOC. × 738.NOS. R2011-127738 & R2011-127739 REMOVE EXISTING (TVD)	REMOVE EXISTING ELECTRIC LINE TO REMAIN	UNDER DEMOLITION & CLEANOUT 1/W=728.9'	WALK 737.	REMOVE EXISTING TREE (TYP.)	EXISTING INLET 75.5 × 735.3× 73 × 735.3× 735 × 735.3× 735	735.6 REMOVE EXISTING SELECTRIC (TYP.)	.2	TT / M/M/
× 737.2 × 741.0 × 741.0	CROSS ACCESS FASEMENT TO	ADJUST EXISTING ELECTRIC STRUCTURE	REMNANTS OF IN THE PROCESS	CONC. FOUNDATION/WALLS OF BEING DEMOLISHED AS OF EXISTING 2-3-2025	8/ ×/365/4755:17 REMOVE	× 735.6 × 735.6	735.7 × 740.8 × 740.8 × 742.1	74	H477a
739 ×739.2 7400 EP=741.39 EP=741.39 PE	R DOC. NO. R2020-085330 (C)	(SEE UTILITY PLAN)	.lg	PE REMOVED 727.72 VALVE 727.72	EXISTING INLET 5269	×,738,436.1 × ;	741.5 741.5		1" = 40'
INGRESS AND EGRESS INGRESS AND EGRESS NOS. R2011-127738	** 10' P.U.&D.E. & S.E. REMOVE 11: 12: 13: 14: 15: 15: 15: 15: 15: 15: 15: 15: 15: 15	WALK WALK WAS A 740.9 73 MAT	CHLINE — SEE SHEET C3.1	REMOVE MANHOLE MANHOLE	WATER STUB 7 2X4 TO BE PEMOVED	× 735.4 736.8 7/5.9	735.9 × 742.1 × 741.6		C3.4
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	INLÉT INLÉT	TIM K, XXXXIII & XXXIII WITH TOUR AND XXXIII	Y111		CONTRACT CONTRACTOR CO		(/_/_ × _N		I

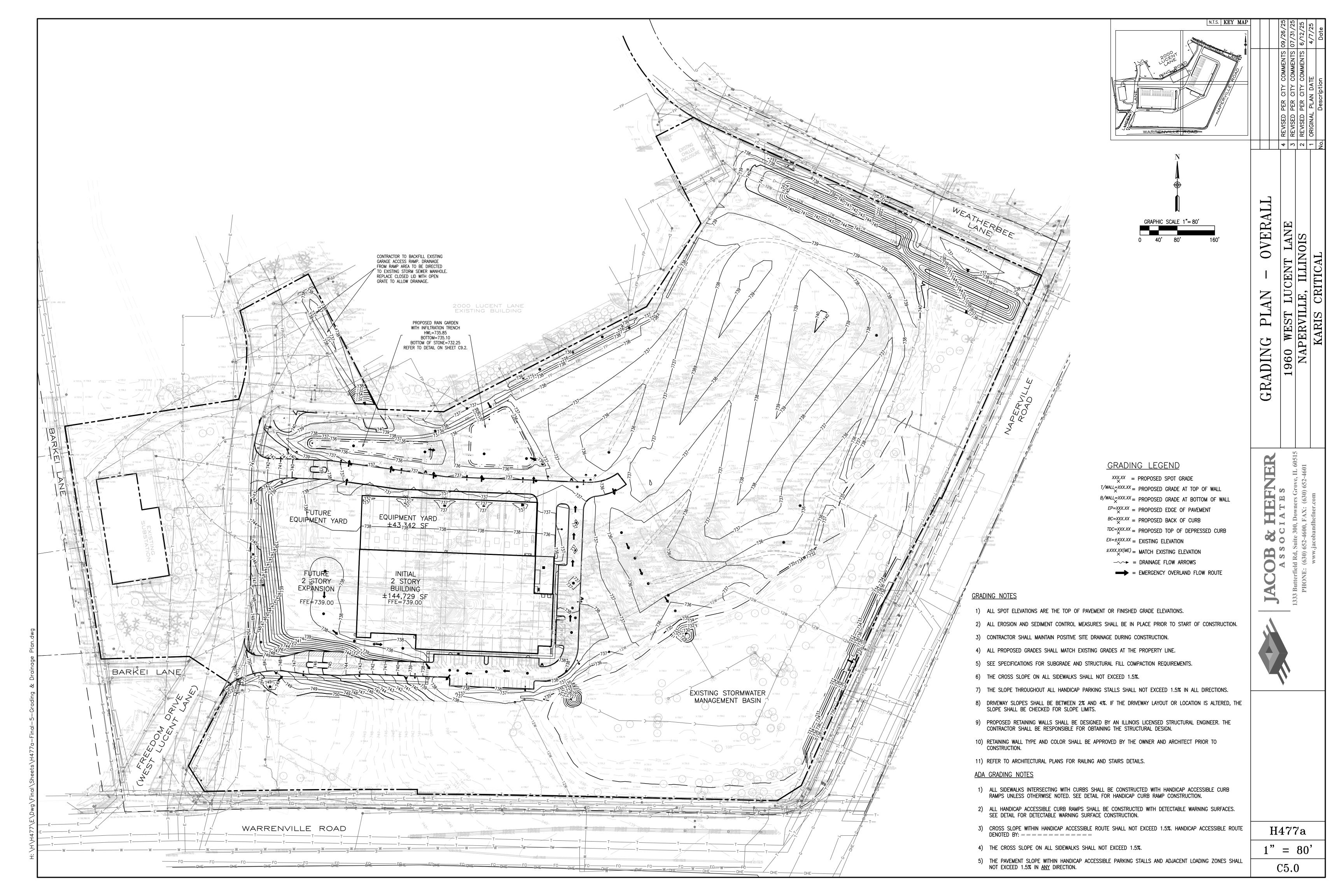


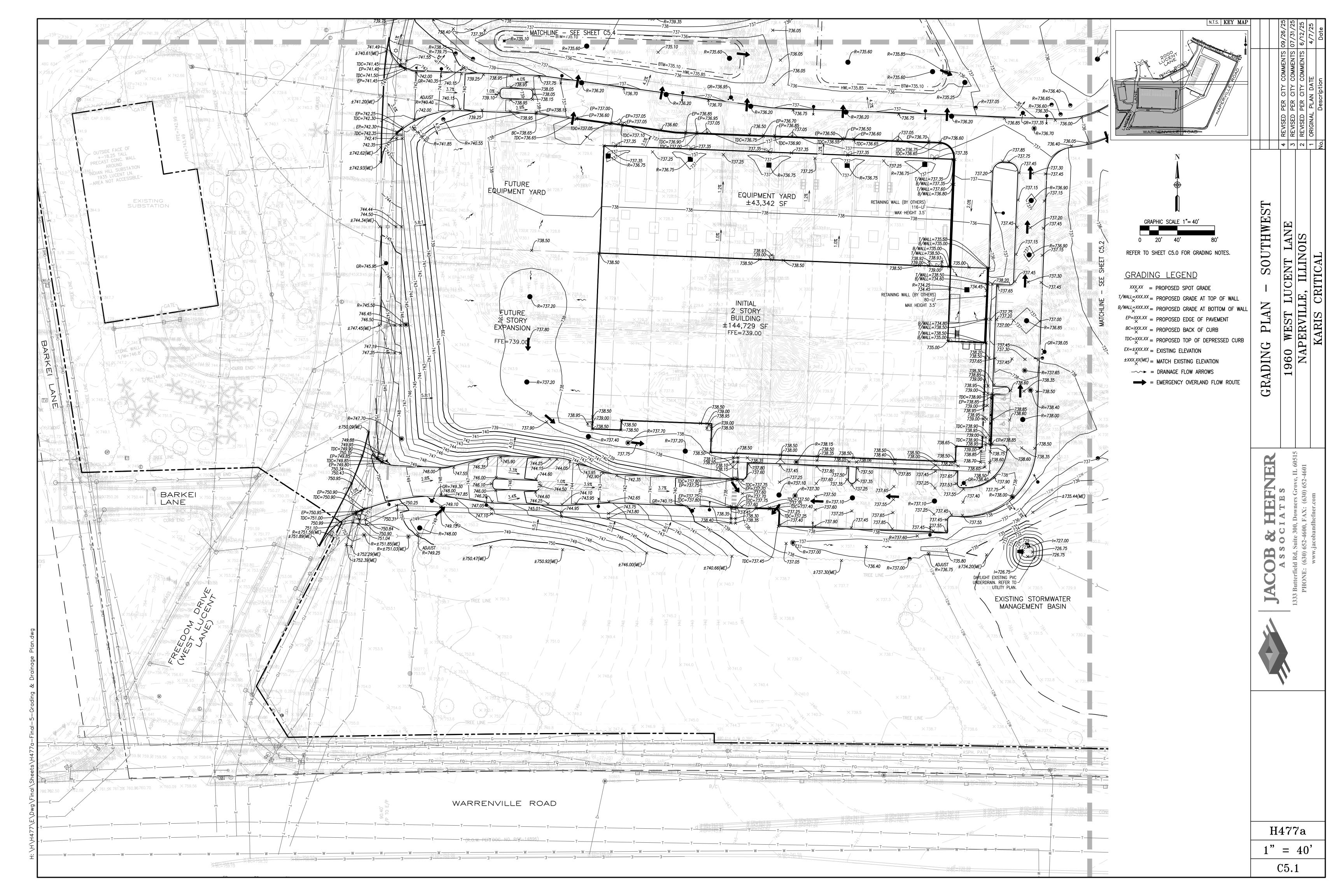


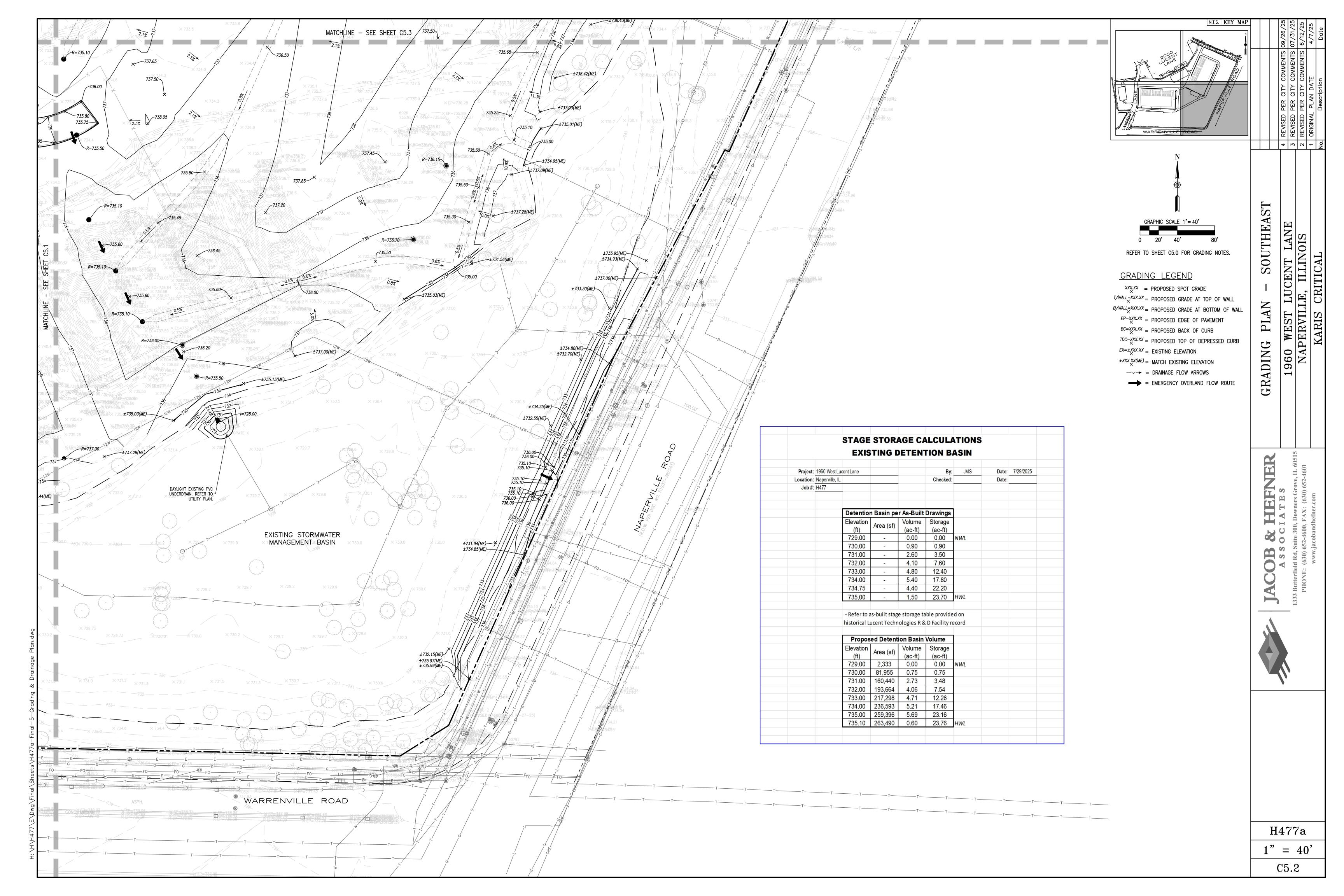


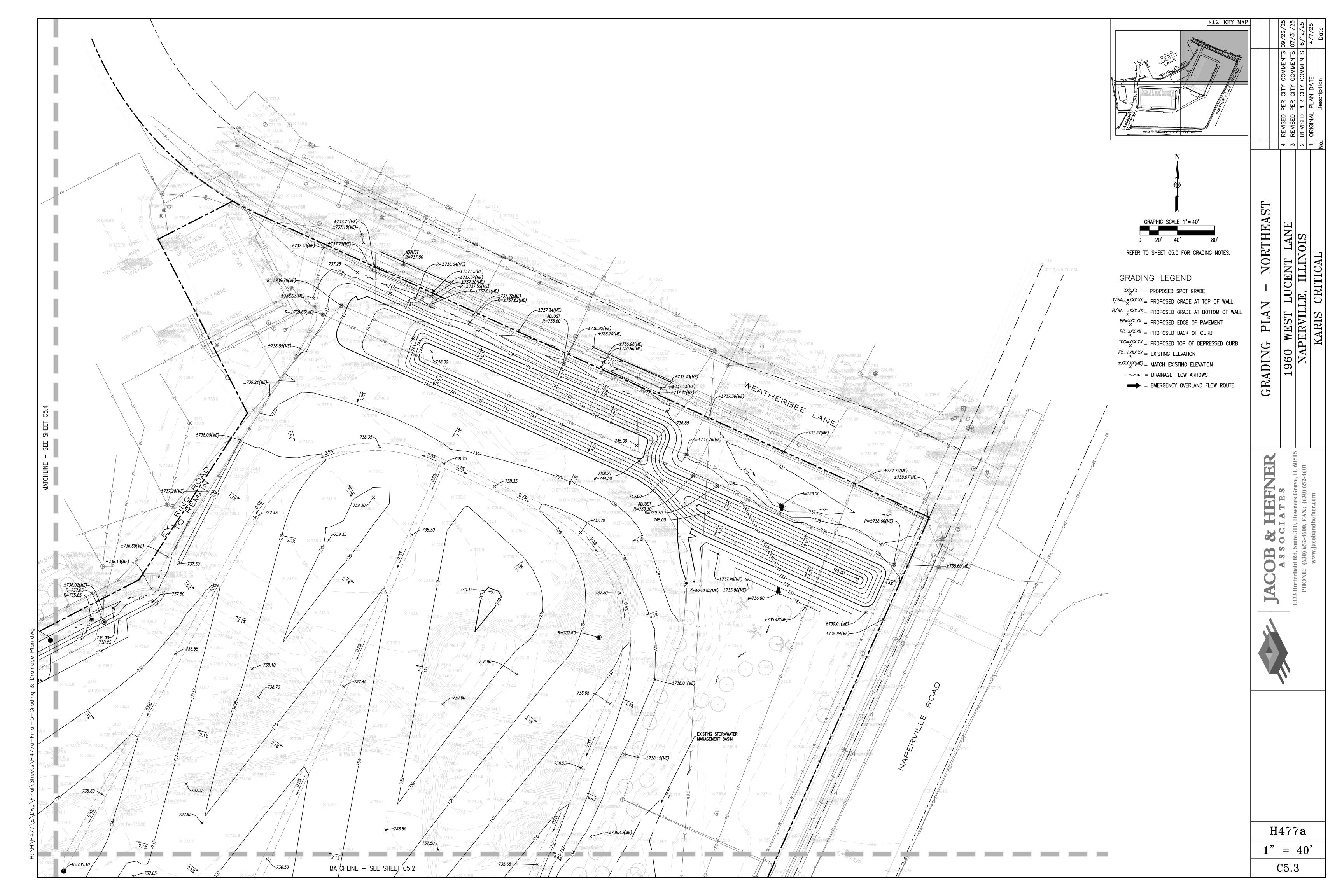


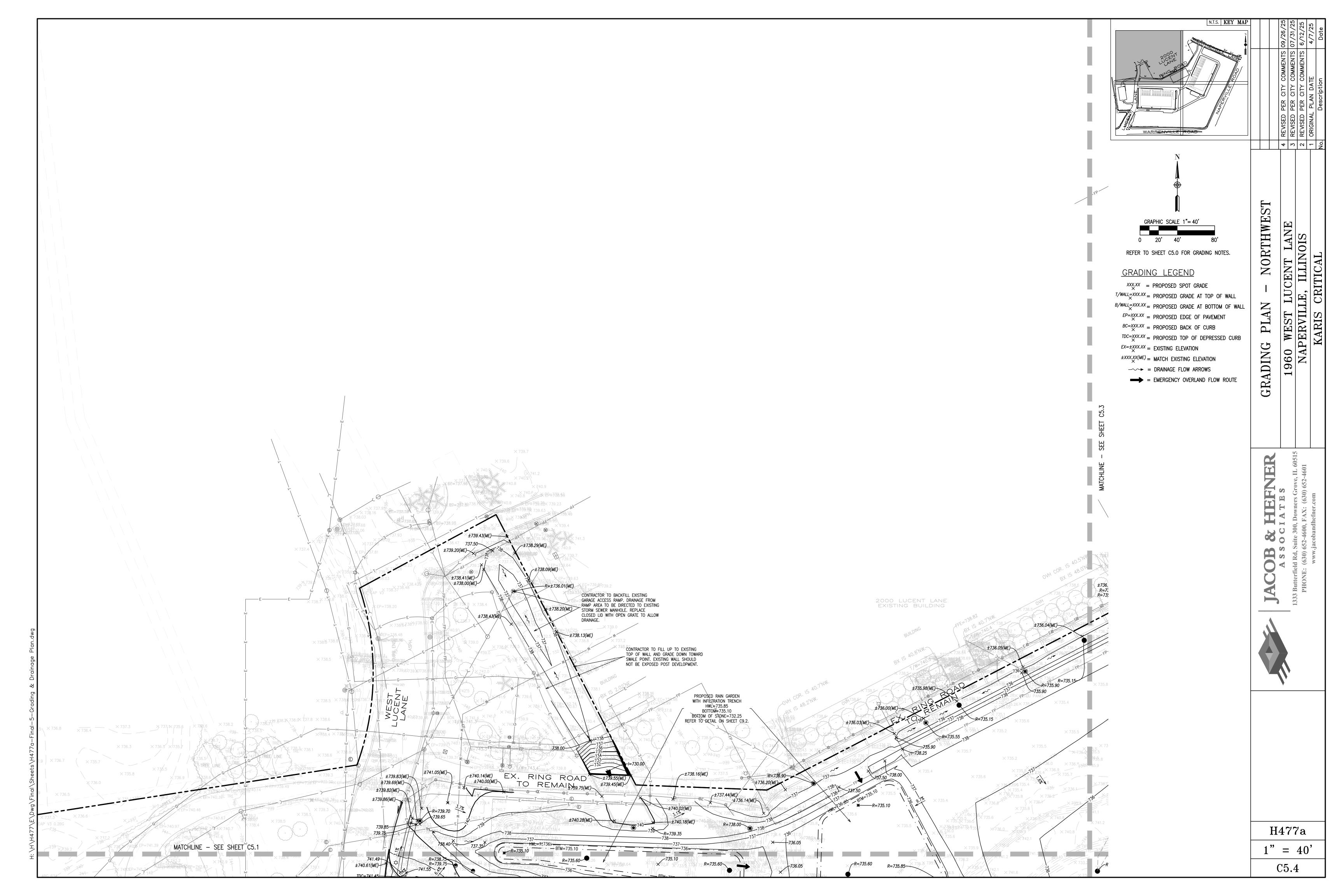










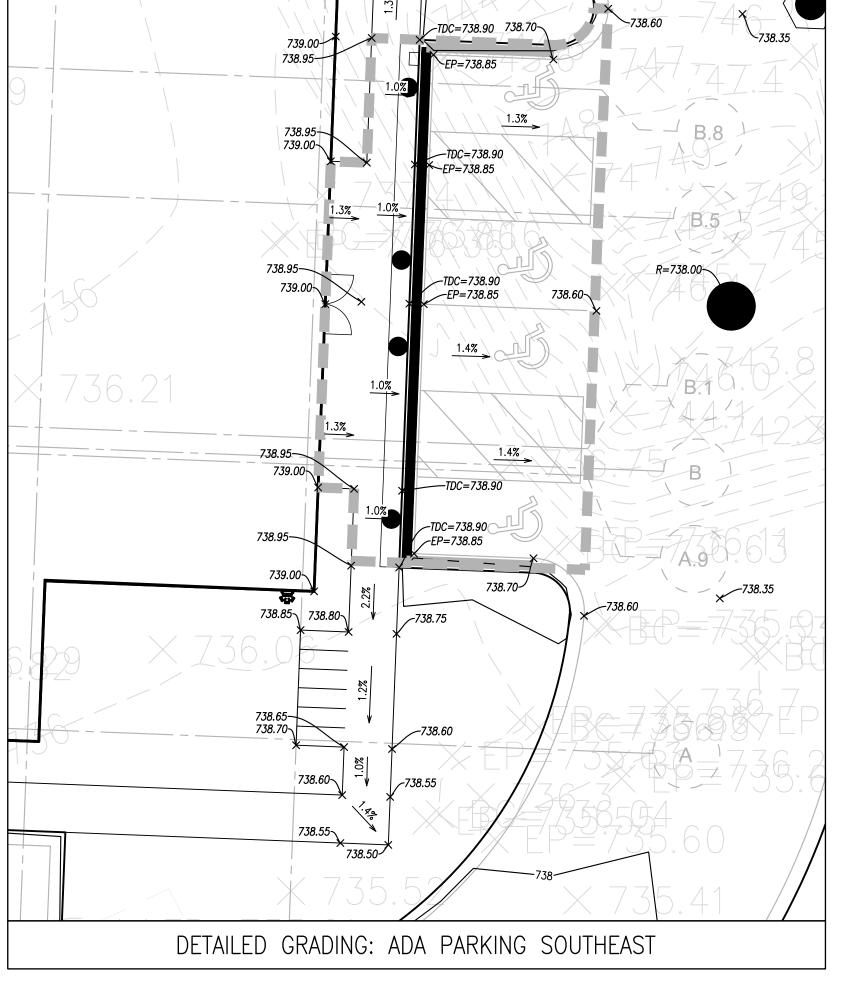


ADA GRADING NOTES

- 1) ALL SIDEWALKS INTERSECTING WITH CURBS SHALL BE CONSTRUCTED WITH HANDICAP ACCESSIBLE CURB RAMPS UNLESS OTHERWISE NOTED. SEE DETAIL FOR HANDICAP CURB RAMP CONSTRUCTION.
- 2) ALL HANDICAP ACCESSIBLE CURB RAMPS SHALL BE CONSTRUCTED WITH DETECTABLE WARNING SURFACES. SEE DETAIL FOR DETECTABLE WARNING SURFACE CONSTRUCTION
- 3) CROSS SLOPE WITHIN HANDICAP ACCESSIBLE ROUTE SHALL NOT EXCEED 1.5%. HANDICAP ACCESSIBLE ROUTE DENOTED BY:
- 4) THE CROSS SLOPE ON ALL SIDEWALKS SHALL NOT EXCEED 1.5%.
- 5) THE PAVEMENT SLOPE WITHIN HANDICAP ACCESSIBLE PARKING STALLS AND ADJACENT LOADING ZONES SHALL NOT EXCEED 1.5% IN <u>ANY</u> DIRECTION.
- 6) REFER TO SHEET C5.0 FOR OVERALL GRADING PLAN AND NOTES.

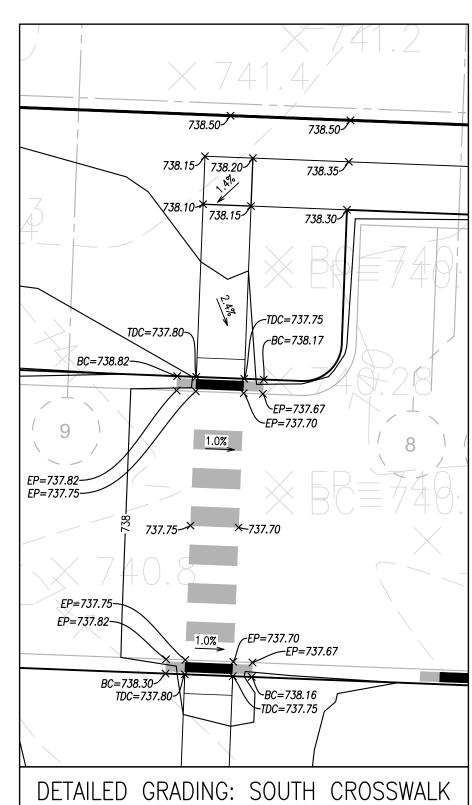
GRADING LEGEND

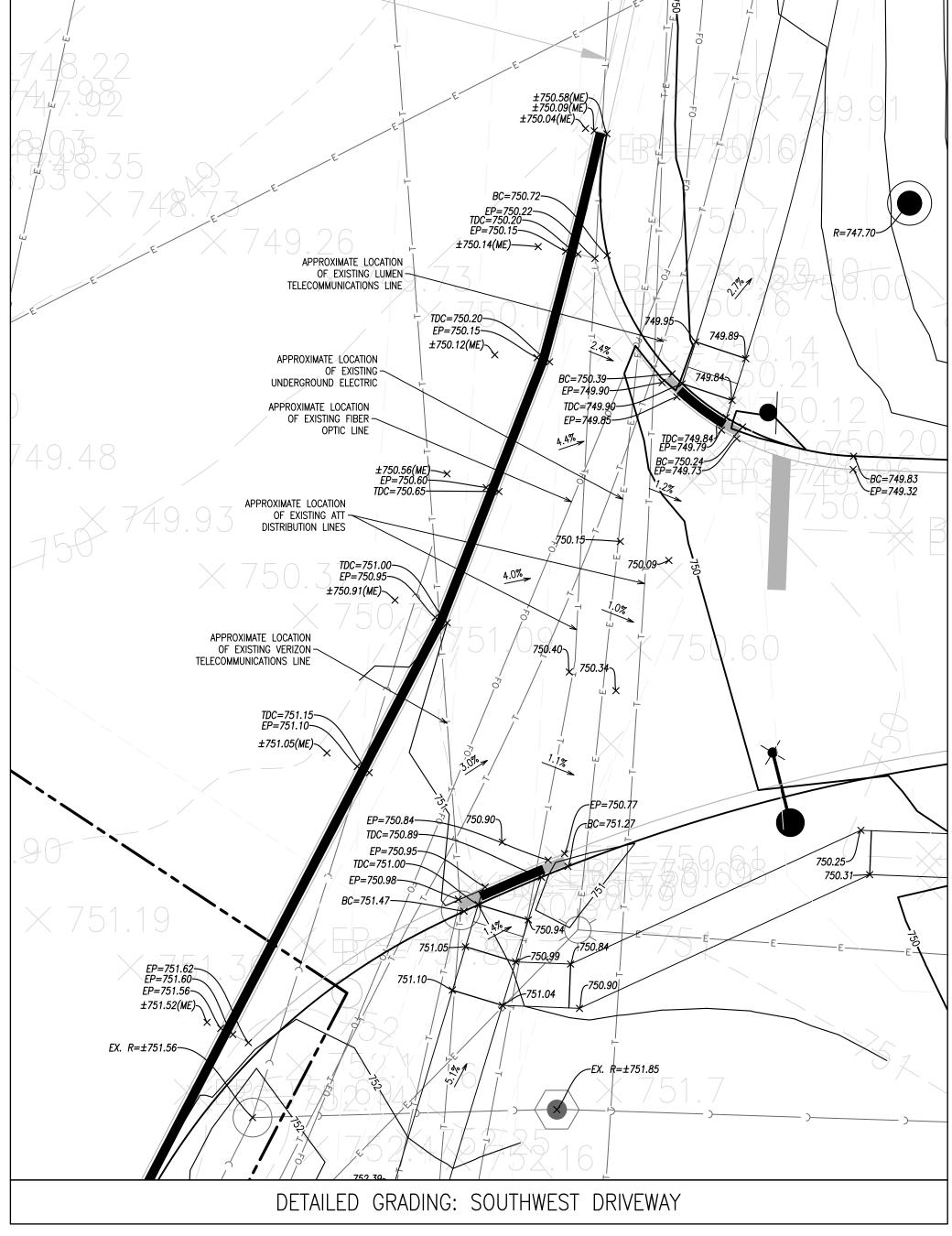
- XXX.XX = PROPOSED SPOT GRADE
- BC = XXX.XX = PROPOSED BACK OF CURB
- EP=XXX.XX = PROPOSED EDGE OF PAVEMENT
- TDC = XXX.XX = PROPOSED TOP OF DEPRESSED CURB
- R = XXX.XX = PROPOSED RIM ELEVATION
- $EX. R = \pm XXX.XXX = EXISTING RIM ELEVATION$
- $_{\times}^{\pm XXX,XX(ME)} = MATCH EXISTING ELEVATION$
- → = DRAINAGE FLOW ARROWS
- = EMERGENCY OVERLAND FLOW ROUTE

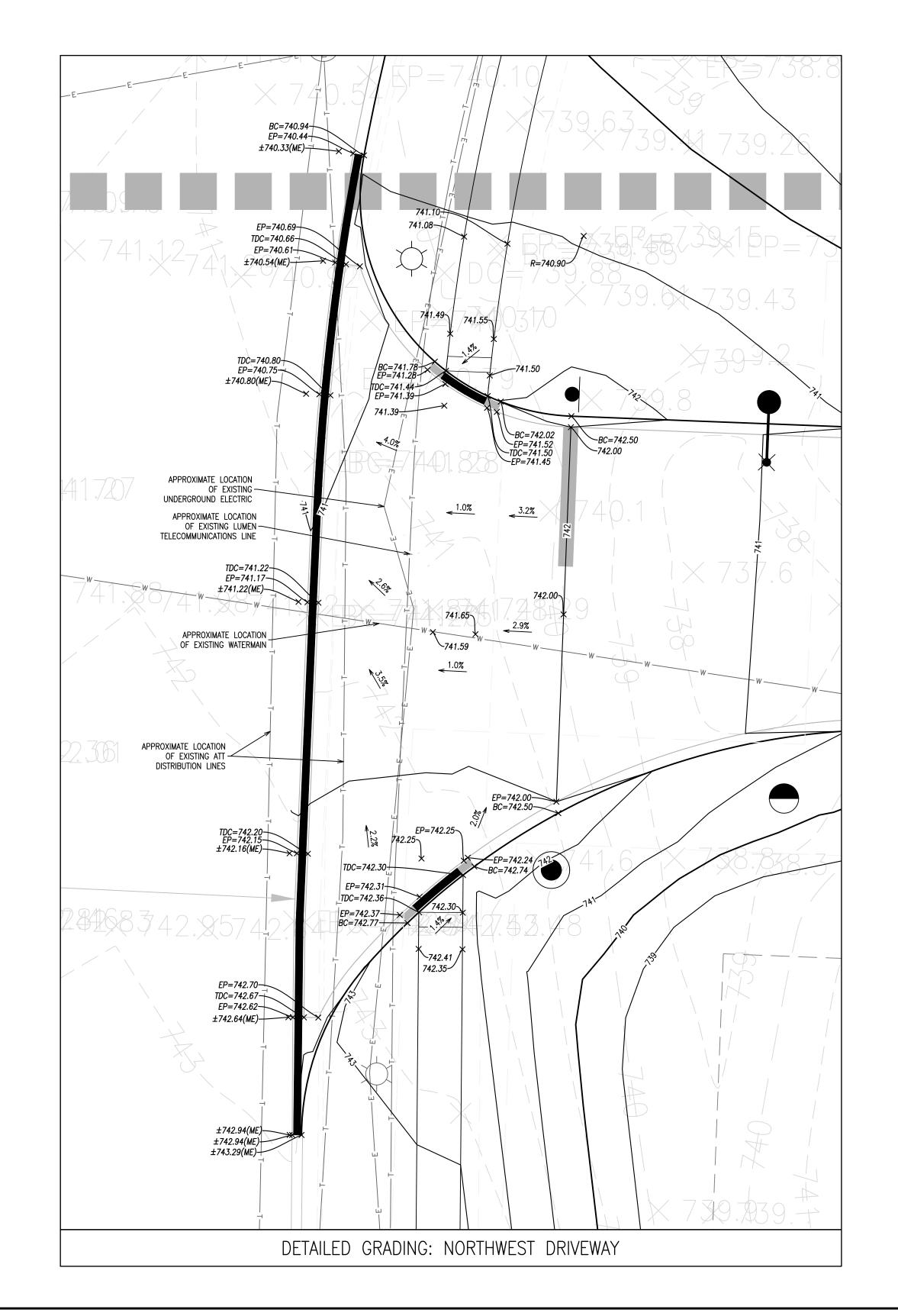


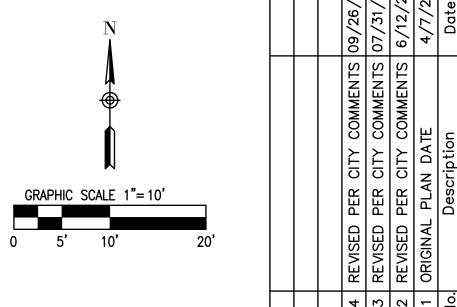
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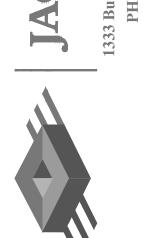
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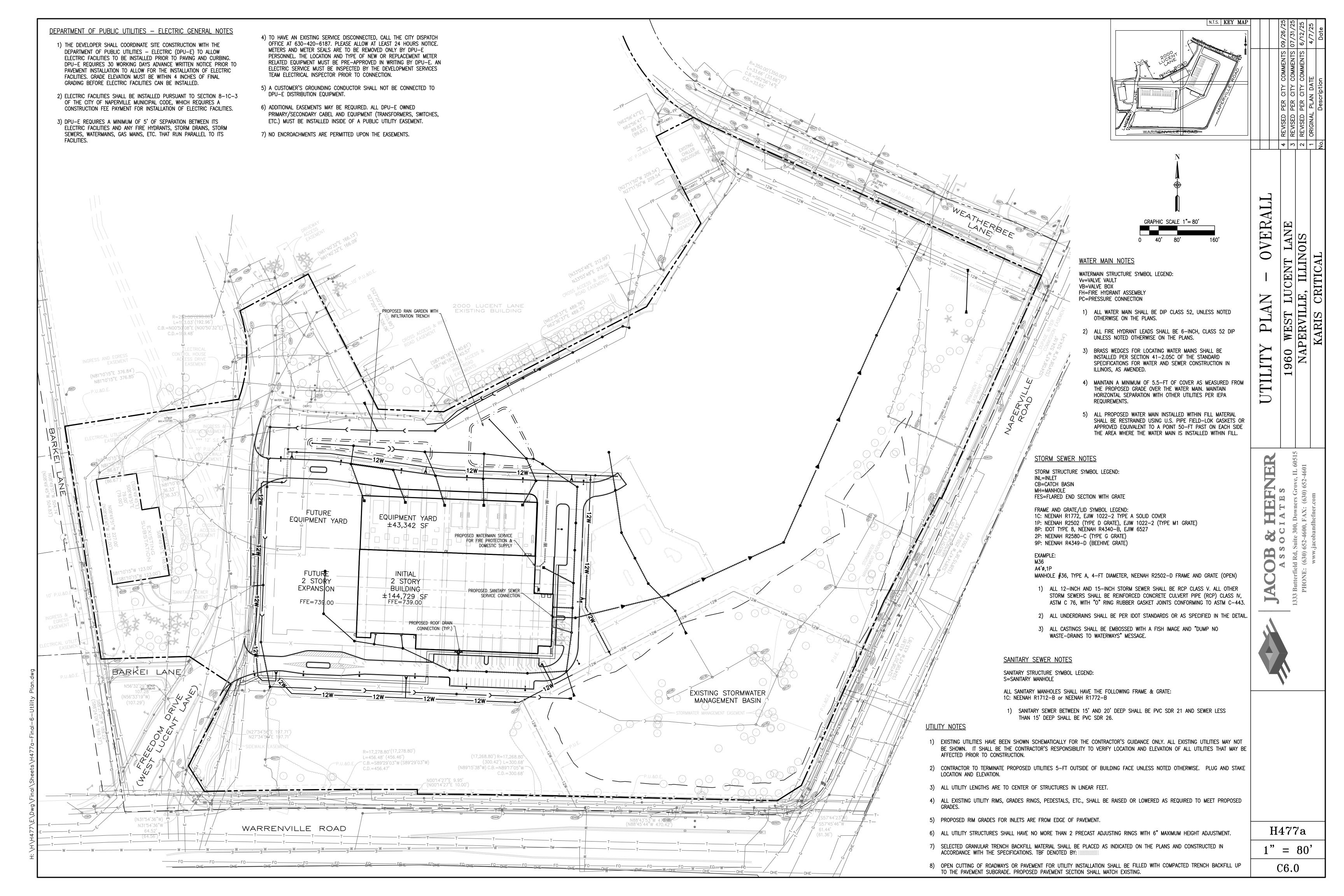


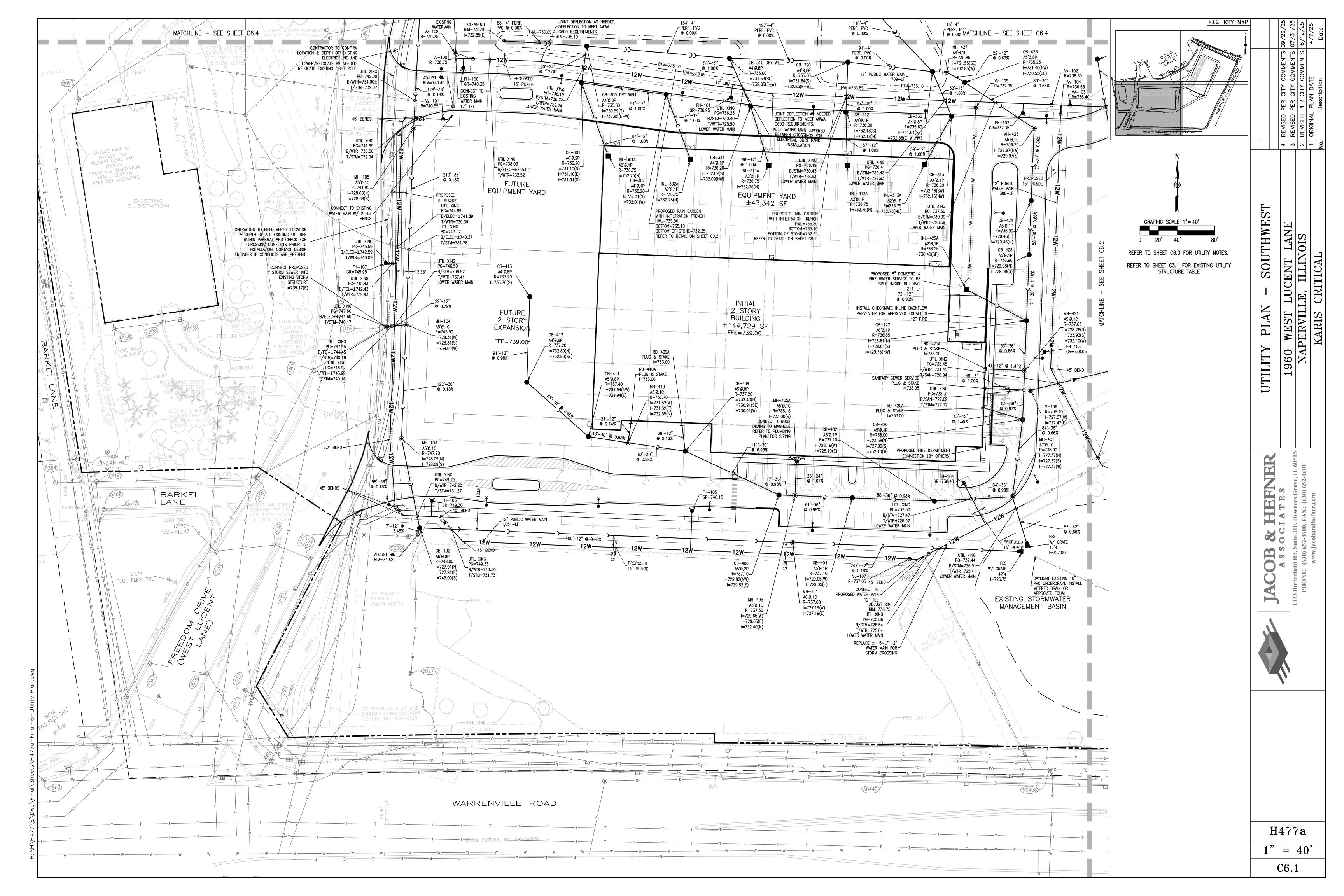


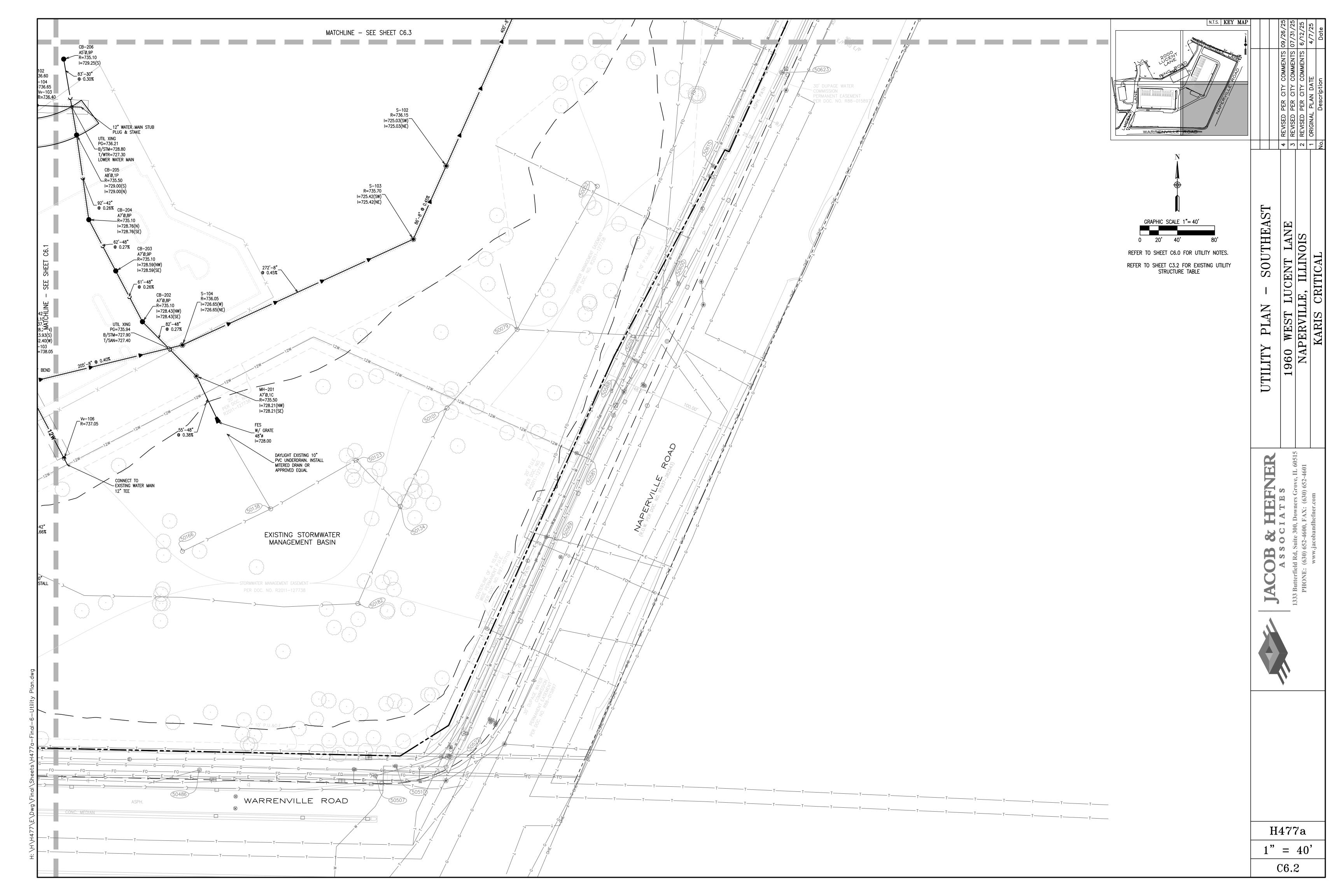


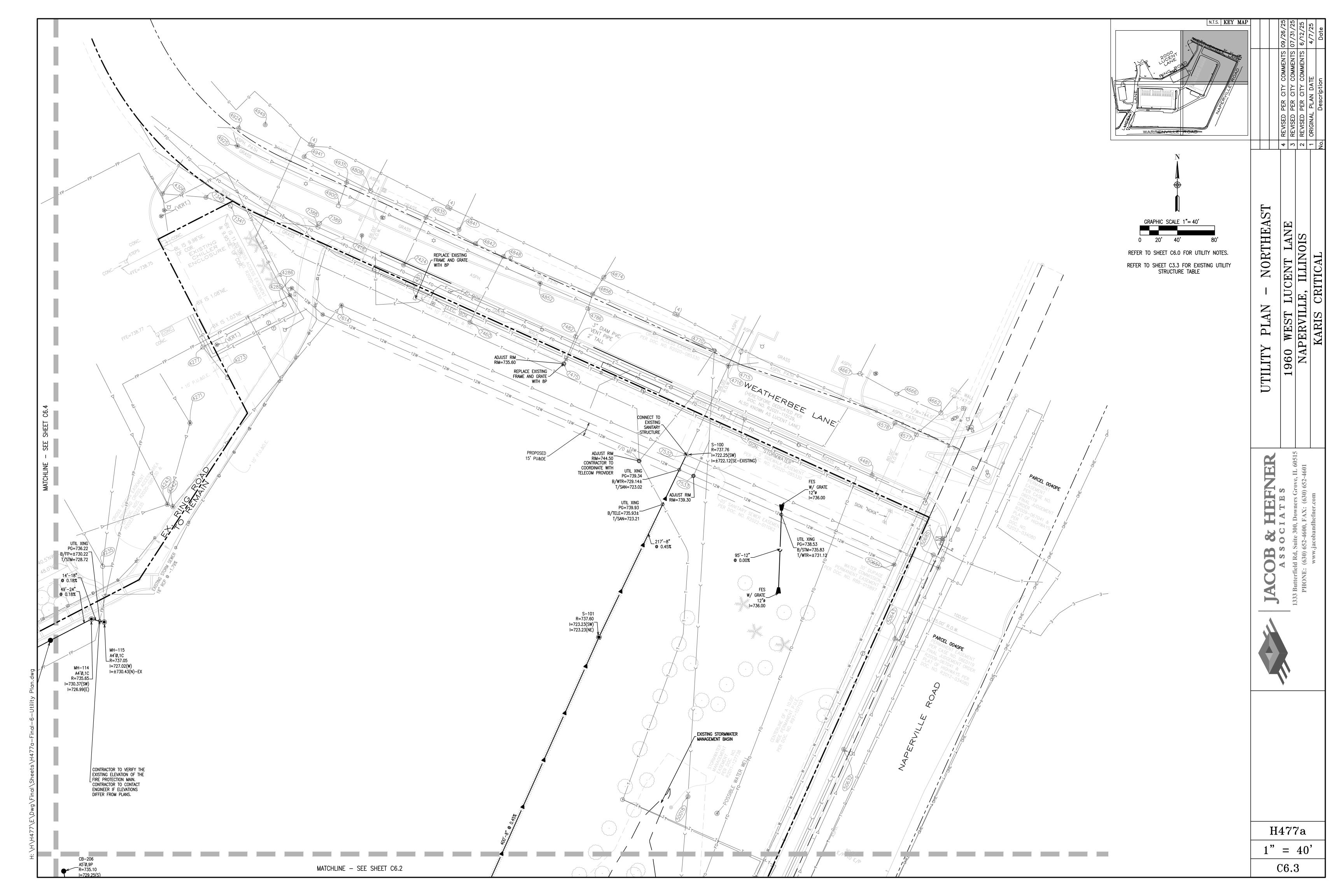
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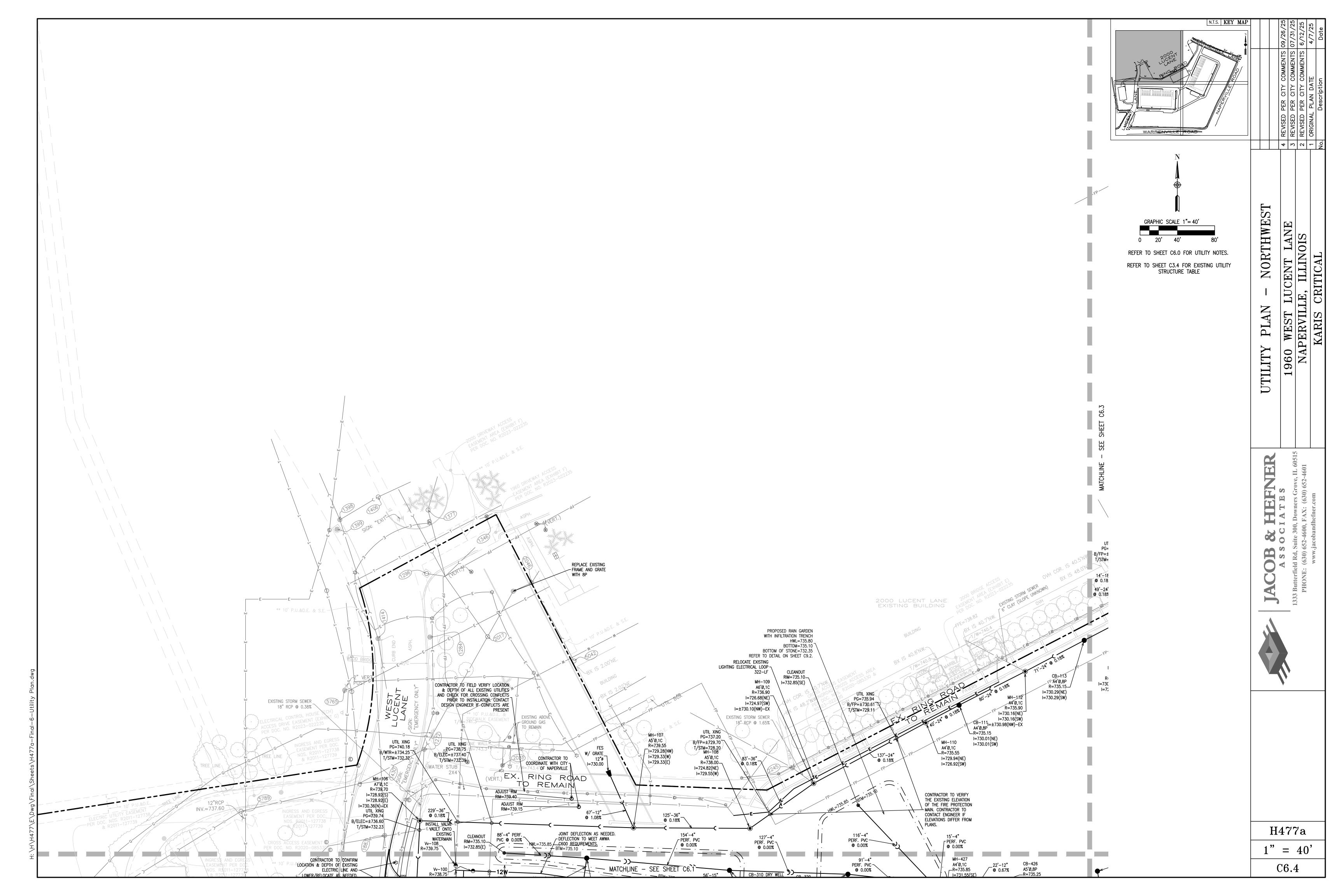
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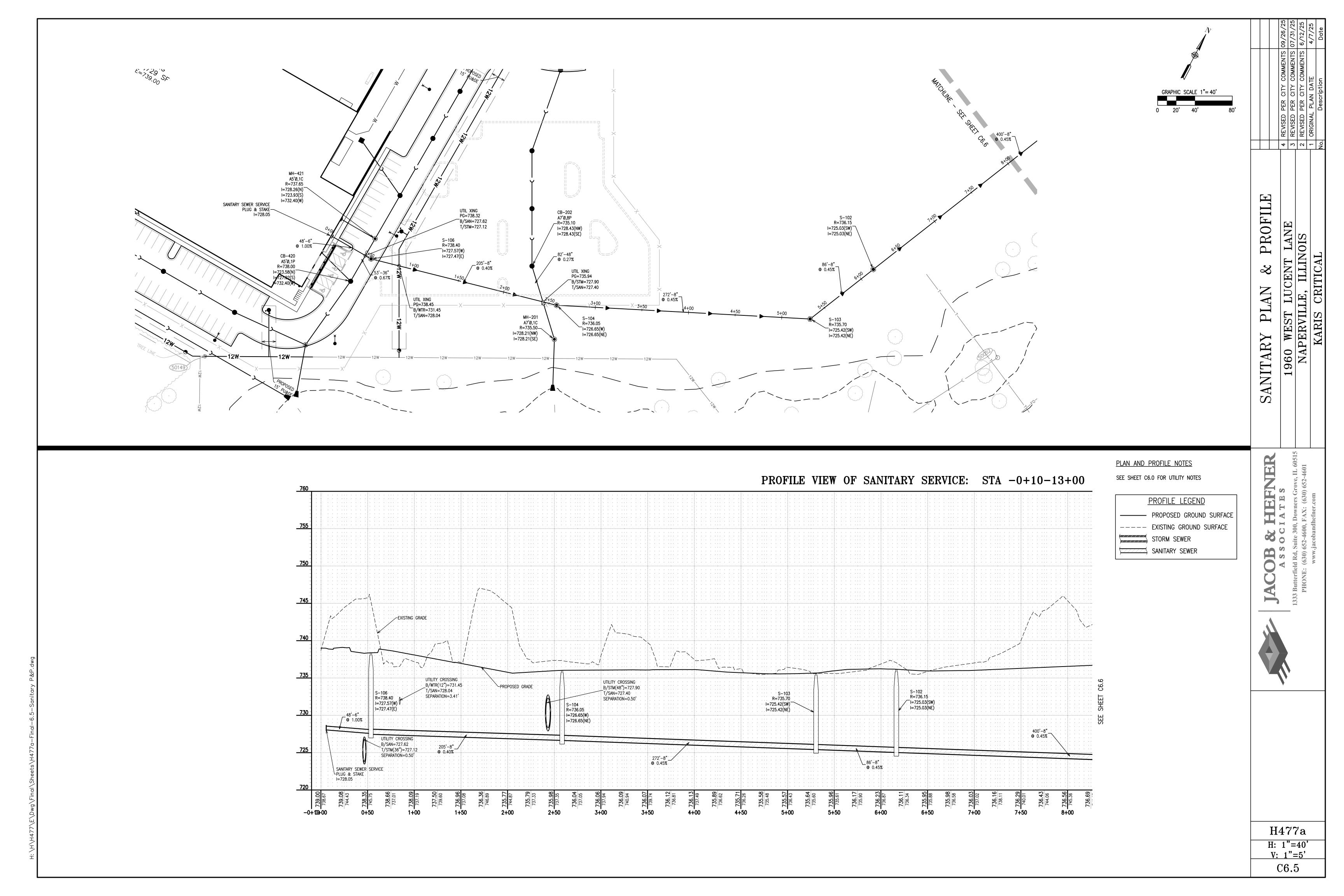


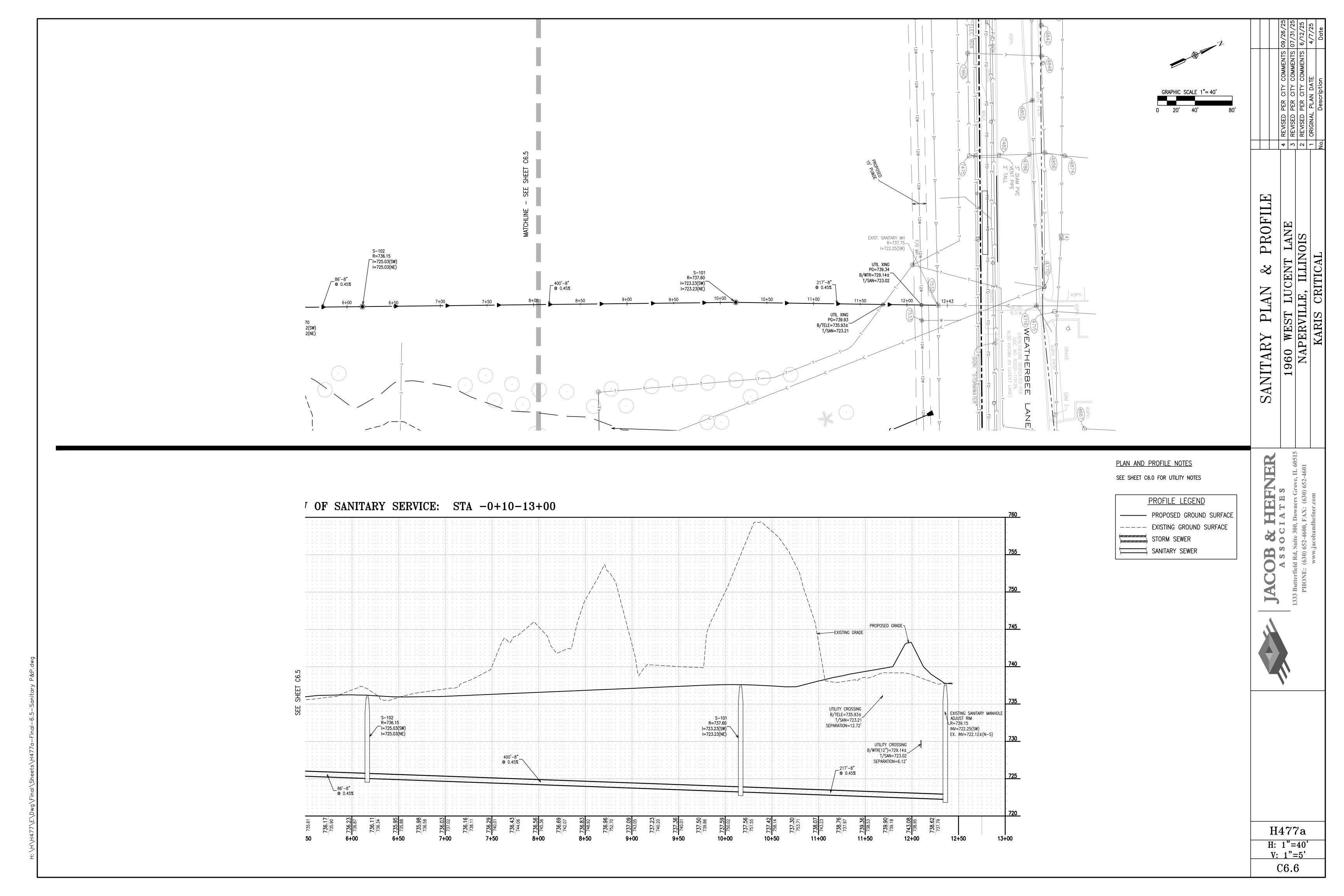


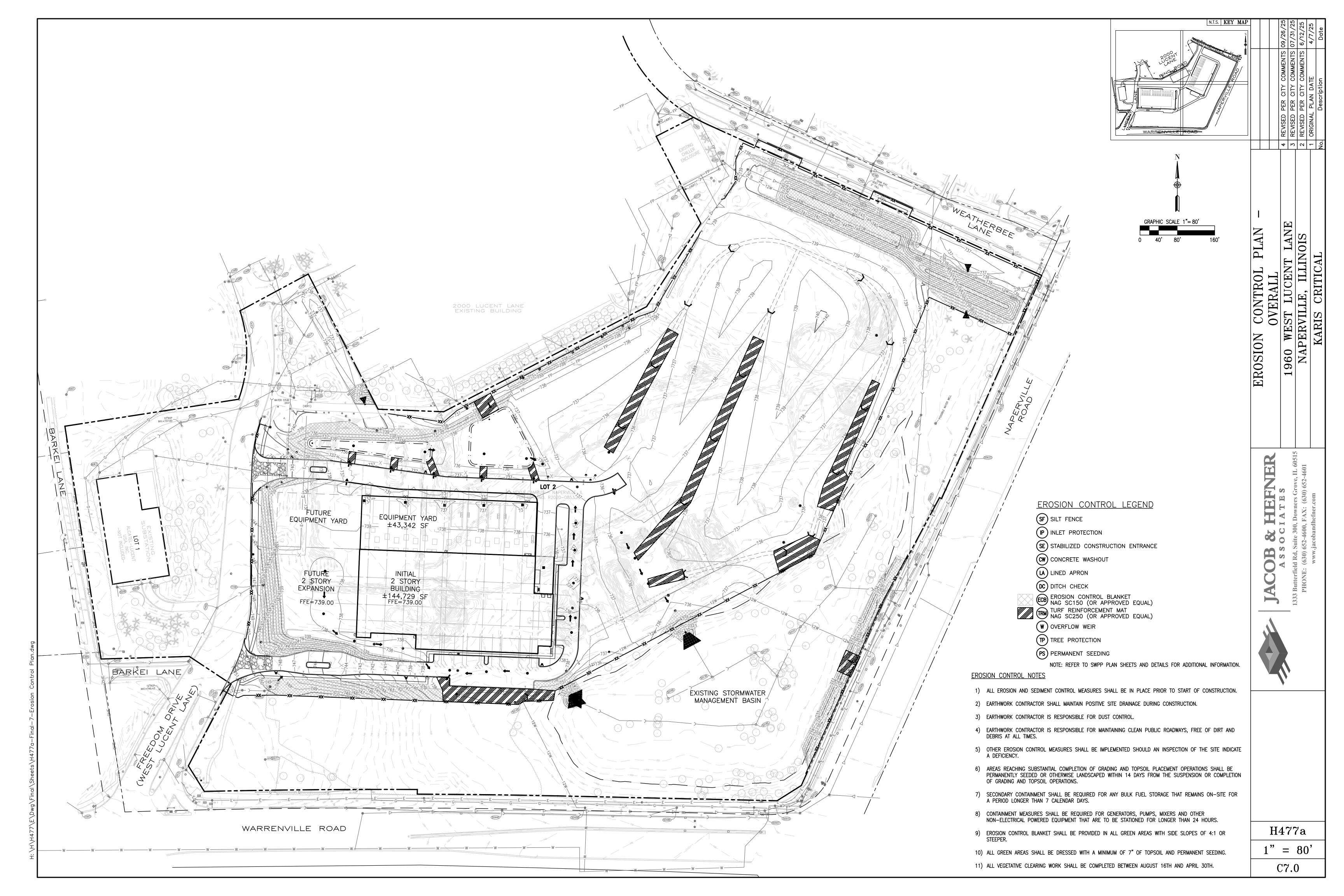


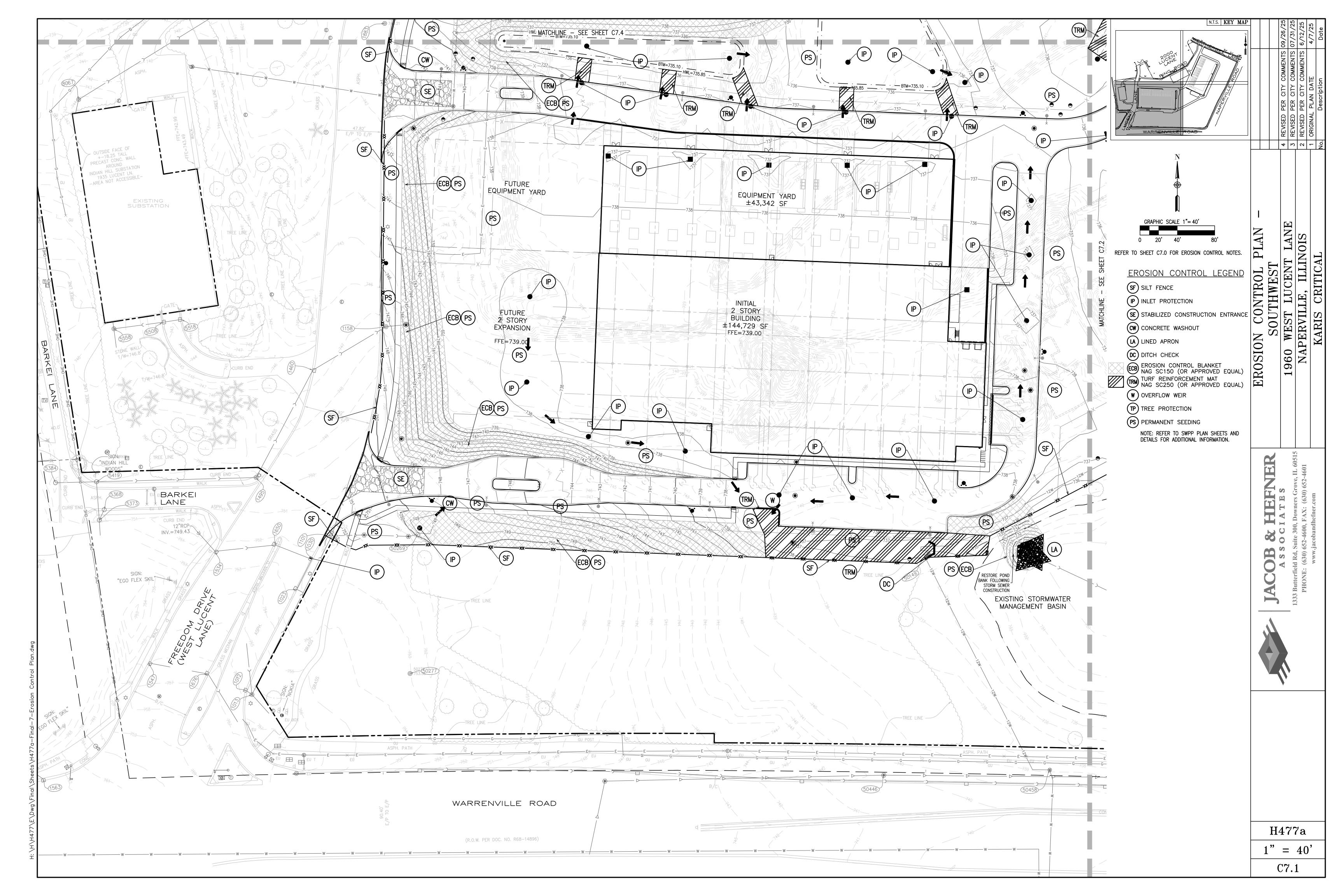


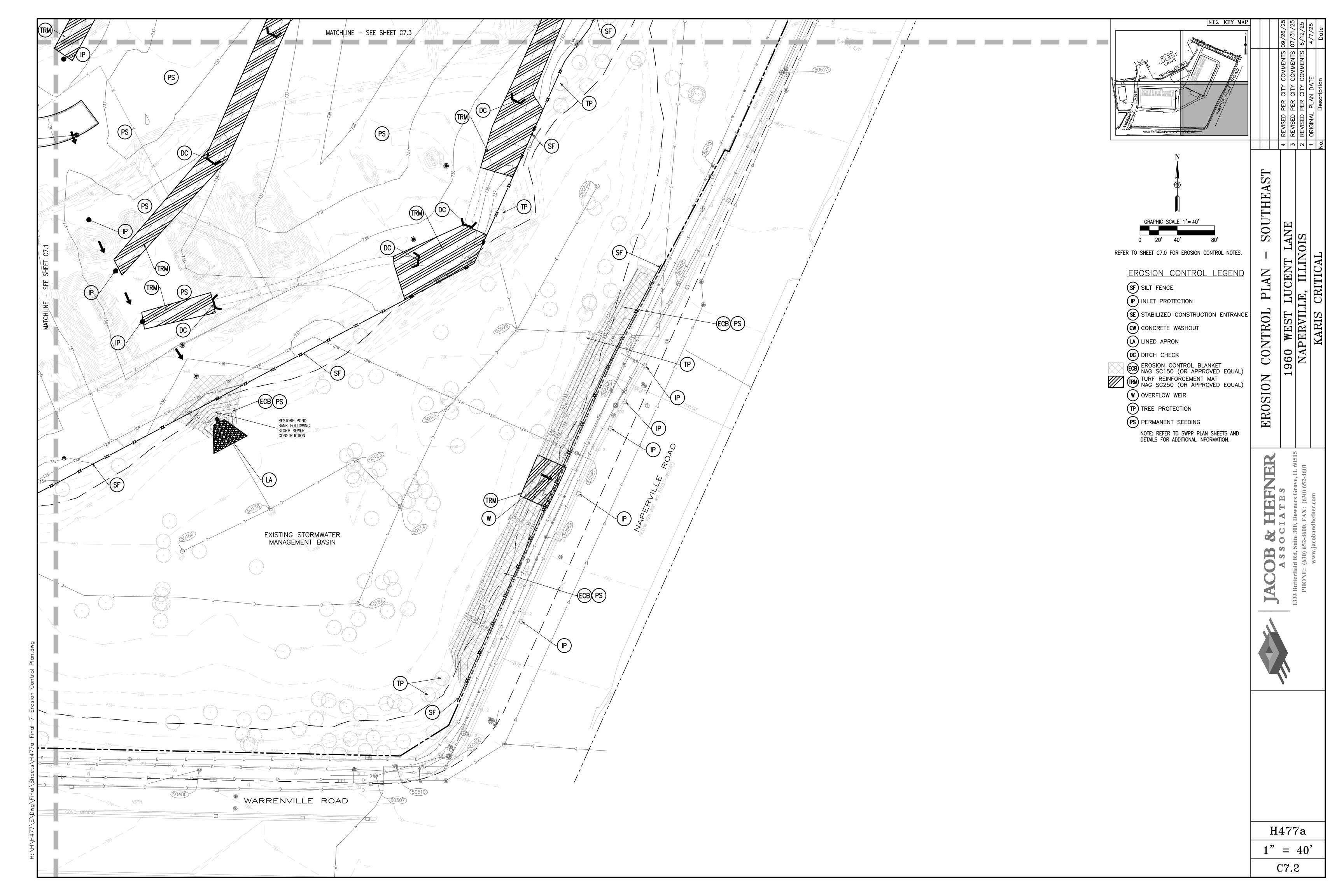




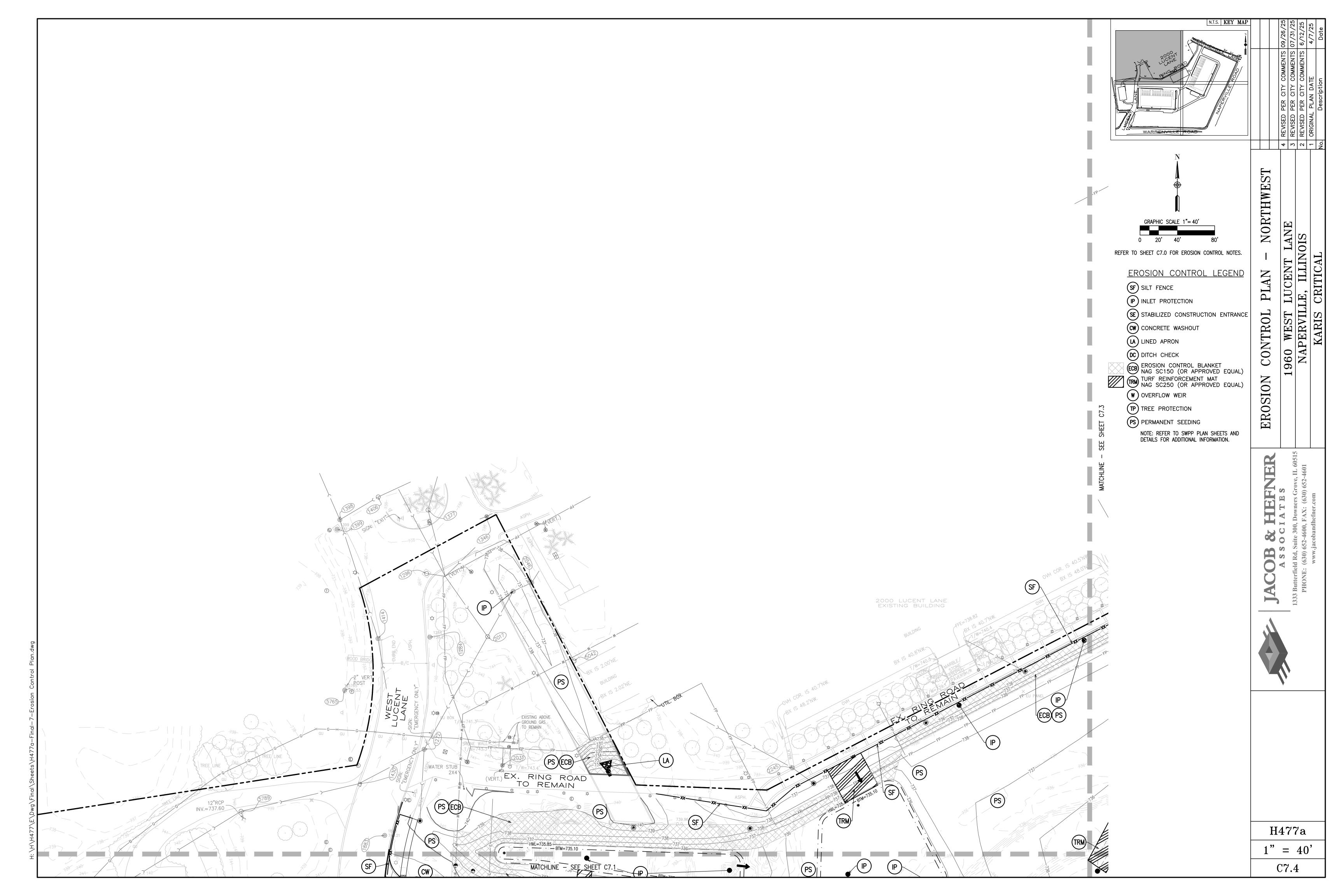












CONTROL MEASURE GROUP	CONTROL MEASURE	APPL.	KEY	CONTROL MEASURE CHARACTERISTICS	TEMP.	PERMNT	MAINTENANCE FREQUENCY
	TEMPORARY SEEDING	\times	X		REDO ANY FAILING AREAS.		
VEGETATIVE	PERMANENT SEEDING	\times	(3)	PROVIDES PERMANENT VEGETATIVE COVER TO CONTROL EROSION, FILTERS SEDIMENT FROM WATER. MAY BE PART OF FINAL LANDSCAPE PLAN.		X	REDO ANY FAILING AREAS.
SOIL COVER	DORMANT SEEDING		(DS)	SAME AS PERMANENT SEEDING EXCEPT IS DONE DURING DORMANT SEASON. HIGHER RATES OF SEED APPLICATION ARE REQUIRED.	X	X	RE-SEED IF NEEDED.
	SODDING		89	QUICK PERMANENT COVER TO CONTROL EROSION. QUICK WAY TO ESTABLISH VEGETATION FILTER STRIP. CAN BE USED ON STEEP SLOPES OR IN DRAINAGE WAYS WHERE SEEDING MAY BE DIFFICULT.	X	X	N/A
	MACHINE TRACKING		(3)	PROVIDES SOIL ROUGHING FOR EROSION CONTROL.		X	N/A
NON VEGETATIVE	POLYMER		(ADDED INSURANCE OF A SUCCESSFUL TEMPORARY OR PERMANENT SEEDING. PROVIDES TEMPORARY COVER WHERE VEGETATION CANNOT BE ESTABLISHED.	×	x	REAPPLY EVERY $1\frac{1}{2}$ MONTHS.
SOIL COVER	AGGREGATE COVER		(AG)	PROVIDES SOIL COVER ON ROADS AND PARKING LOTS AND AREAS WHERE VEGETATION CANNOT BE ESTABLISHED. PREVENTS MUD FROM BEING PICKED UP AND TRANSPORTED OFF—SITE.		×	CLEAN UP DIRT FROM STONE AS NEEDED.
33V <u>2</u> .X	PAVING	X	(P)	PROVIDES PERMANENT COVER ON PARKING LOTS AND ROADS OR OTHER AREAS WHERE VEGETATION CANNOT BE ESTABLISHED.		x	N/A
	RIDGE DIVERSION		RD	TYPICALLY USED ABOVE SLOPES TO COLLECT FLOW AND TRANSFER DOWNSLOPE.	х	х	CLEAN SILT OUT WHEN HALF-FULL.
	CHANNEL DIVERSION		(B)	TYPICALLY USED TO DIVERT FLOW.	х	Х	REPLACE PROTECTION WHEN NEEDED.
DIVERSIONS	COMBINATION DIVERSION		<u>(00)</u>	TYPICALLY USED ANYWHERE ON A SLOPE. SOIL TAKEN OUT OF CHANNEL IS USED TO BUILD THE RIDGE.	х	х	REPLACE PROTECTION WHEN NEEDED.
	CURB AND GUTTER	X	@	SPECIAL CASE OF DIVERSION USED IN CONJUNCTION WITH A STREET TO DIVERT WATER FROM AN AREA NEEDING PROTECTION.		x	N/A
	BENCHES		B	SPECIAL CASE OF DIVERSION CONSTRUCTED WHEN WORKING ON CUT SLOPES TO SHORTEN LENGTH OF SLOPE AND ADD SLOPE STABILITY.	×	x	N/A
	VEGETATIVE CHANNEL		(vs)	PROVIDED ADDED STABILITY TO CHANNEL. USED WHEN VELOCITY OF FLOW IS NOT EXTREMELY FAST.	х	x	REDO ANY FAILING AREAS.
WATERWAYS	LINED CHANNEL		<u>©</u>	USED WHEN VEGETATION WILL NOT PROTECT THE CHANNEL AGAINST HIGH VELOCITIES OF FLOW OR WHERE VEGETATION CANNOT BE ESTABLISHED.	×	х	REPLACE PROTECTION WHEN NEEDED.
ENCLOSED	STORM SEWER	\forall	(F)	CAN BE USED TO CONVEY SEDIMENT LADEN WATER TO SEDIMENT BASIN OR IN CONJUNCTION WITH A WATERWAY.		х	CLEAN SEDIMENT OUT.
DRAINAGE	UNDER DRAIN	∇	9	USED TO LOWER WATER TABLE AND INTERCEPT GROUNDWATER FOR BETTER VEGETATION GROWTH AND SLOPE STABILITY. USED TO CARRY BASE FLOW IN WATERWAYS AND TO DEWATER SEDIMENT BASINS.	x	х	N/A
	STRAIGHT PIPE SPILLWAY		(P3)	USED FOR RELATIVELY SMALL VERTICAL DROPS AND SMALL FLOWS OF WATER.		x	CLEAN OUT CONSTRUCTION DEBRIS.
	DROP INLET PIPE SPILLWAY		DIS	SAME AS PIPE SPILLWAY EXCEPT LARGER FLOWS AND LARGE VERTICAL DROPS CAN BE ACCOMMODATED.		x	CLEAN OUT CONSTRUCTION DEBRIS.
SPILLWAYS	WEIR SPILLWAY	\times	W	USED FOR RELATIVELY SMALL VERTICAL DROPS AND FLOWS MUCH GREATER THAN PIPE STRUCTURES.	x	x	CLEAN OUT CONSTRUCTION DEBRIS.
	BOX INLET WEIR SPILLWAY		BS	SAME AS WEIR SPILLWAY EXCEPT LARGER FLOWS CAN BE ACCOMMODATED BECAUSE OF LOWER WEIR LENGTH.	x	х	CLEAN OUT CONSTRUCTION DEBRIS.
OUTLETS	LINED APRON	\forall	(A)	PROTECTS DOWNSTREAM CHANNEL FROM HIGH VELOCITY OF FLOW DISCHARGING FROM STRUCTURES.	×	х	REPAIR DISLODGED STONES OR EROSION UNDER RIP-RAP AS NEEDED
SEDIMENT	SEDIMENT BASIN		(SB)	USED TO COLLECT SMALLER PARTICLES — DETAIN WATER WITH CONTROLLED RELEASE.	x	x	CLEAN SEDIMENT OUT WHEN HALF-FULL.
BASINS	SEDIMENT TRAP		(ST)	USED TO COLLECT LARGER PARTICLES — DETAIN WATER WITH CONTROLLED RELEASE.	×	X	CLEAN SEDIMENT OUT WHEN HALF-FULL.
SEDIMENT	SILT FENCE	\forall	(SF)	USED FOR SINGLE LOTS OR DRAINAGE AREAS LESS THAN 1/2 ACRE TO FILTER SEDIMENT FROM RUNOFF.	х		CLEAN SEDIMENT OUT WHEN SILT IS HALF-FULL. REPAIR ANY DAMAGED SILT
FILTERS	VEGETATIVE FILTER		(F)	USED ALONG DRAINAGE WAYS OR PROPERTY LINES TO FILTER SEDIMENT FROM RUNOFF. SIZE MUST BE INCREASED IN PROPORTION TO DRAINAGE AREA.	x	×	FENCE WHEN NEEDED. REDO ANY FAILING AREAS.
MUD AND	STABILIZED CONST. ENTRANCE	\forall	(SE)	PREVENT MUD FROM BEING PICKED UP AND CARRIED OFF-SITE.	×	×	SCRAPE MUD AND REPLACE STONE AS NEEDED.
DUST CONTROL	DUST CONTROL	\Rightarrow	6	PREVENTS DUST FROM LEAVING CONSTRUCTION SITE.	х	×	RE-APPLY AS NEEDED.
	EROSION CONTROL BLANKET	\Rightarrow	€CB	PROTECTS SOIL, SEED AND HELPS GROW VEGETATION.			REPLACE AS NEEDED
	TURF REINFORCEMENT MAT	\Rightarrow	(TRM)	REINFORCES TURF IN CHANNELS AND SHORELINES.			REPLACE AS NEEDED
FDOCION	CELLULAR CONFINEMENT	+	(F)	USED TO HOLED TOPSOIL ON STEEP SLOPES.			REPLACE AS NEEDED
EROSION CONTROL	GABIONS		(A)	USED TO PREVENT EROSION IN VERY HIGH FLOW AREAS.			REPLACE AS NEEDED
	GEOTEXTILE FABRIC		(F)	USED FOR EROSION / SEDIMENT CONTROL/ SEPARATION / STABILIZATION.			REPLACE AS NEEDED
	GEOBLOCK POROUS PAVEMENT		(P)	USED FOR FIRE LANE ACCESS / VEGETATIVE PAVEMENT.			REPLACE AS NEEDED
	INLET PROTECTION		(E)	USED FOR PROTECTION OF INLETS.			REPLACE OR CLEAN WHEN CLOGGED.
	SLOPE INTERRUPT		(SI)	USED TO BREAK UP THE FLOW ON A SLOPE.			CLEAN OUT WHEN HALF-FULL OF SILT.
	DITCH CHECK		8	USED FOR FLOW SEDIMENT CONTROL IN SWALES AND CHANNELS.			CLEAN OUT WHEN HALF-FULL OF SILT.
	FLOC LOG		6	USED TO CLARIFY WATER THAT HAS SEDIMENT IN THE WATERY COLUMN.			REPLACE WHEN HALF DISSOLVED.
SEDIMENT CONTROL	SILT CURTAIN			USED FOR SEDIMENT CONTROL IN STREAM / POND.			REPLACE WHEN FABRIC IS TORN OR HOLES
		+	(SC)	·			BEGIN TO FORM. REPLACE WHEN HALF-FULL, FABRIC IS TORN,
	PUMPING DISCHARGE BAG	+	PB	USED FOR PUMP DISCHARGE LINES.			OR HOLES BEGIN TO FORM. CLEAN OUT WHEN HALF-FULL, CLEAN
	CONCRETE WASHOUT	\rightarrow	(CW)	FOR CONCRETE TRUCKS TO WASHOUT.			WASHOUT GRAVEL AREA AS NEEDED.

USED TO PREVENT SILT BUILD UP IN STREETS.

SEEDING CHART

STABILIZATION TYPE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ост.	NOV.	DEC.
PERMANENT SEEDING			+ <u>A</u>						_			
DORMANT	В										В	
SEEDING											T	
TEMPORARY			_c				D					
SEEDING												
SODDING			_E**_									
30001110			_ '						_			
MULCHING	F											

- A KENTUCKY BLUEGRASS 90 LBS/ACRE MIXED WITH PERENNIAL RYEGRASS
- C SPRING OATS 100 LBS/ACRE D WHEAT OR CEREAL RYE
- B KENTUCKY BLUEGRASS 135 LBS/ACRE MIXED WITH PERENNIAL RYEGRASS
 45 LBS/ACRE + 2 TONS STRAW MULCH/ACRE.
- 150 LBS/ACRE.

STREET SWEEPING

- F STRAW MULCH 2 TONS/ACRE. * IRRIGATION NEEDED DURING JUNE AND JULY.
- ** IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD. *** MOW LAWNS AS NECESSARY

OBSERVATION	& MAINTENANCE	E SCHEDULE
ACTIVITY	RESPONSIBLE PARTY	DURATION
STABILIZATION DURING CONSTRUCTION— MAINTENANCE	CONTRACTOR	DURING CONSTRUCTION
STABILIZATION DURING CONSTRUCTION— OBSERVATION	DEVELOPER/OWNER	WEEKLY & AFTER EACH RAINFALL EVENT IN EXCESS OF 0.5".
VEGETATION MAINTENANCE	CONTRACTOR	1 YEAR FROM COMPLETION
VEGETATION STABILIZATION MAINTENANCE	DEVELOPER/OWNER	ONGOING FROM CONSTRUCTION COMPLETION

This plan has been prepared to comply with the provisions of the NPDES Permit Number ILR10, issued by the Illinois Environmental Protection Agency for Stormwater Discharges from Construction Site Activities and Soil Erosion and Sediment Control Ordinance for the County.

Site Description.

a. The following is a description of the construction activity following mass grading which is the subject of this

- The proposed development consists of construction of Industrial Development
- The construction activities for site improvements will include: mass grading, pavement construction, installation of utilities including storm sewers, soil erosion and sedimentation control measures, as a minimum.
- b. The following is a description of the intended sequence of major activities which will disturb soils for major portions of the construction site, such as grubbing, excavation, and grading:
- The sequence of the construction activities may be as follows: 1) install silt filter fence and stabilized construction entrance, 2) mass grading, 3) underground utilities installation, 4) fine grading in pavement area and 5) pavement construction. The soil erosion and sedimentation control items will be constructed as
- c. The total area of the construction site is estimated to be <u>41.43</u> acres.
- The total area of the site that it is estimated to be disturbed by excavation, grading, or other activities, is <u>±23.94</u> acres.
- d. The estimated runoff coefficients of the various areas of the site after construction activities are completed are contained in the project drainage study, titled Stormwater Management for 1960 West Lucent Lane prepared by Jacob & Hefner Associates, Inc. which is hereby incorporated by reference in this plan. The estimated proposed overall site runoff coefficient is ____
- e. Existing data describing soils or quality of discharge (soils report if available) Poor/Fair/Good/Not Available
- f. Name of receiving water(s): Eastern Branch of the DuPage River g. Name of ultimate receiving water(s): DuPage River

needed during the above construction activities.

Controls.

This section of the plan addresses the various controls that will be implemented for each of the major construction activities described in 1.b above. For each measure discussed, the contractors will be responsible for its implementation as indicated. Each such contractor has signed the required certification on forms which are attached to, and are a part of, this plan.

a. Erosion and Sediment Controls.

h. Wetland acreage: 0.00 acre

- (i) STABILIZATION PRACTICES. Provided below is a description of interim and permanent stabilization practices, including site-specific scheduling of the implementation of the practices. Site plans will ensure that existing vegetation is preserved where attainable and disturbed portions of the site will be stabilized. Except as provided in 2.a.(i).(A) and 2.b., stabilization measures shall be initiated within 1 working day in portions of the site where construction activities have temporarily or permanently ceased and must be completed within 14 calendar days after the construction activity in that portion of the site has ceased on all disturbed portions of the site where construction activity will not occur for a period of 14 or more
- Where the initiation of stabilization measures after construction activity temporarily or permanently ceases is precluded by snow cover, stabilization measures shall by initiated as soon as practicable thereafter.
- The following interim and permanent stabilization practices, as a minimum, will be implemented to stabilize
- Silt filter fence
- Vegetative Filter
- Stabilized construction entrance
- (ii) STRUCTURAL PRACTICES. Provided below is a description of structural practices that will be implemented, to the degree attainable, to divert flows from exposed soils, store flows or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. The installation of these devices may be subject to Section 404 of the Clean Water Act.
- Detention Pond Storm sewer system
- Rip-rap for outlet protection Permanent seeding
- (iii) DUST CONTROL: Dust Control shall be provided per standard 825 of Illinois Urban Manual. Following are the dust control that can be used.
- Spray on adhesive Vegetative cover
- Mulching b. Stormwater Management.
- (i)Provided below is a description of measures that will be installed during the construction process to control pollutants in stormwater discharges that will occur after construction operations have becompleted. The installation of these devices may be subject to Section 404 of the Clean Water Act.
- The practices selected for implementation were determined on the basis of the technical guidance contained in IEPA's Standard Specifications for Soil Erosion and Sedimentation Control, and other ordinances listed in the Specifications.
- The stormwater pollutant control measures shall include:
 - 1. Silt filter fence
- Storm sewers Retention/Detention ponds
- (ii) Velocity dissipation devices will be placed at discharge locations and along the length of any outfall channel as necessary to provide a non-erosive velocity flow from the structure to a water course so that the natural physical and biological characteristics and functions are maintained and protected (e.g., maintenance of hydrologic conditions, such as the hydroperiod and hydrodynamics present prior to the initiation of construction activities).
- Stormwater Management Control includes:
- Rip-rap for outlet protection

c. Other Controls.

CLEAN ONCE A WEEK. OR AS NEEDED

TO KEEP STREET CLEAN.

- (i) Waste Disposal. The solid waste materials including trash, construction debris, excess construction materials, machinery, tools and other items will be collected and disposed off-site by the contractor. The contractor is responsible to acquire any permit required for such disposal. Burning on the site will not be permitted. No solid materials, including building materials, shall be discharged into Waters of the State, except as authorized by a Section 404 permit.
- (ii) The provisions of this plan shall ensure and demonstrate compliance with applicable State and/or local waste disposal, sanitary sewer or septic system regulations.
- The sanitary sewage will be discharged to the proposed sanitary sewer constructed per IEPA and local standards.

d. Approved State or Local Plans.

replaced as needed

The management practices, controls, and other provisions contained in this plan are at least as protective as the requirements contained in the Illinois Environmental Protection Agency's Standards and Specifications for Soil Erosion and Sediment Control dated October 1987, Illinois Procedures and Standards for Urban Soil Erosion and Sedimentation Plan, and the Municipal Subdivision Ordinance. Requirements specified in sediment and erosion control site plans or site permits or stormwater management site plans or site permits approved by local officials that are applicable to protecting surface water resources are, upon submittal of an NOI to be authorized to discharge under this permit, incorporated by reference and are enforceable under this permit even if they are not specifically included in the plan.

The following is a description of procedures that will be used to maintain, in good and effective operating conditions, vegetation, erosion and sediment control measures and other protective measures identified in this plan and Standard Specifications.

Stabilized construction entrance: The entrance shall be maintained to prevent tracking of sediment onto public streets. This will be done by top dressing with additional stones, remove and replace top layer of stones or washing the entrance. The sediment washed on the public right-of-way will be removed immediately. Vegetative erosion control measures: The vegetative growth of temporary and permanent seeding, sodding,

fertilizer. The vegetative cover shall be removed and reseeded as necessary.

Sedimentation basins/traps: The sediments shall be removed when 40-50 percent of the total original capacity is occupied by the sediment. In no case shall the sediment be built up to more than 1 foot below the crest elevation. At this stage, the basin shall be cleaned out to restore its original volume. Silt filter fence: The damaged silt filter fence shall be restored to meet the standards or removed and

vegetative channels, vegetative filter, etc. shall be maintained periodically and supply adequate watering and

Straw bale barrier filters: The straw bale barrier filter shall be inspected frequently and shall be repaired or removed and replaced as needed.

Rip-Rap outlet protection: It shall be inspected after high flows for any scour beneath the Rip-Rap or for stones that have been dislodged. It shall be repaired immediately.

- The Owner, or Owner's representative shall provide qualified personnel to inspect disturbed areas of the construction site which have not been finally stabilized, structural control measures, and location where vehicles enter or exit the site. Such inspections shall be conducted at least once every seven (7) calendar days and within 24 hours of the end of a storm (or by the end of the following business or work day) that consists of 0.5 inches or greater of ranifall or a discharge occurs due to snowmelt.
- a. Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of off site sediment tracking.
- b. Based on the results of the inspection, the description of potential pollutant sources identified in section 1 above and pollution prevention measures identified in section 2 above shall be revised as appropriate as soon as practicable after such inspection. Any changes to this plan resulting from the required inspections shall be implemented within 7 calendar days following the inspection.
- c. A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of this stormwater pollution prevention plan, and actions taken in accordance with section 4.b. shall be made and retained as part of the plan for at least three (3) years after the date of the inspection. The report shall be signed in accordance with Part VI.G of the general permit.
- d. If any violation of the provisions of this plan is identified during the conduct of the construction work covered by this plan, the Resident Engineer or Resident Technician shall complete and file an "Incidence of Noncompliance" (ION) report for the identified violation. The Resident Engineer or Resident Technician shall use forms provided by the Illinois Environmental Protection Agency and shall include specific information on the cause of noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact which may have resulted from the noncompliance. All reports of noncompliance shall be signed by a responsible authority in accordance with Part VI. G of the general permit. The report of noncompliance shall be mailed to the following address:
 - ALL PACKAGES: Illinois Environmental Protection Agency Division of Water Pollution Control Attn: Compliance Assurance Section 2520 lles Ave Springfield, IL 62794-9276

ALL LETTERS: Illinois Environmental Protection Agency Division of Water Pollution Control Attn: Compliance Assurance Section Post Office Box 19276 Springfield, IL 62794-9276

5. Non-Stormwater Discharge

Except for flows from fire fighting activities, sources of non-stormwater that may be combined with stormwater discharges associated with the residential activity addressed in this plan, are described below:

- Fire hydrant flushing
- Watering for dust control Irrigation drainage for vegetative growth for seeding, etc.

The pollution prevention measures, as described below, will be implemented for non-stormwater components of

The fire hydrant and water main shall not be flushed directly on the exposed area or subgrade of the pavement. Hoses shall be used to direct the flow into the storm sewer system.

The erosion due to irrigation of seeding shall be considered minor.

NPDES CERTIFICATE

This certification statement is a part of the Storm Water Pollution Prevention Plan for the project described below, in accordance with NPDES Permit No. ILR00000000, issued by the Environmental Protection Agency on

PROJECT TITLE: SITE IMPROVEMENT PLANS FOR 1960 WEST LUCENT LANE PROJECT LOCATION: NAPERVILLE DUPAGE

CITY/VILLAGE COUNTY DEVELOPER: KARIS CRITICAL

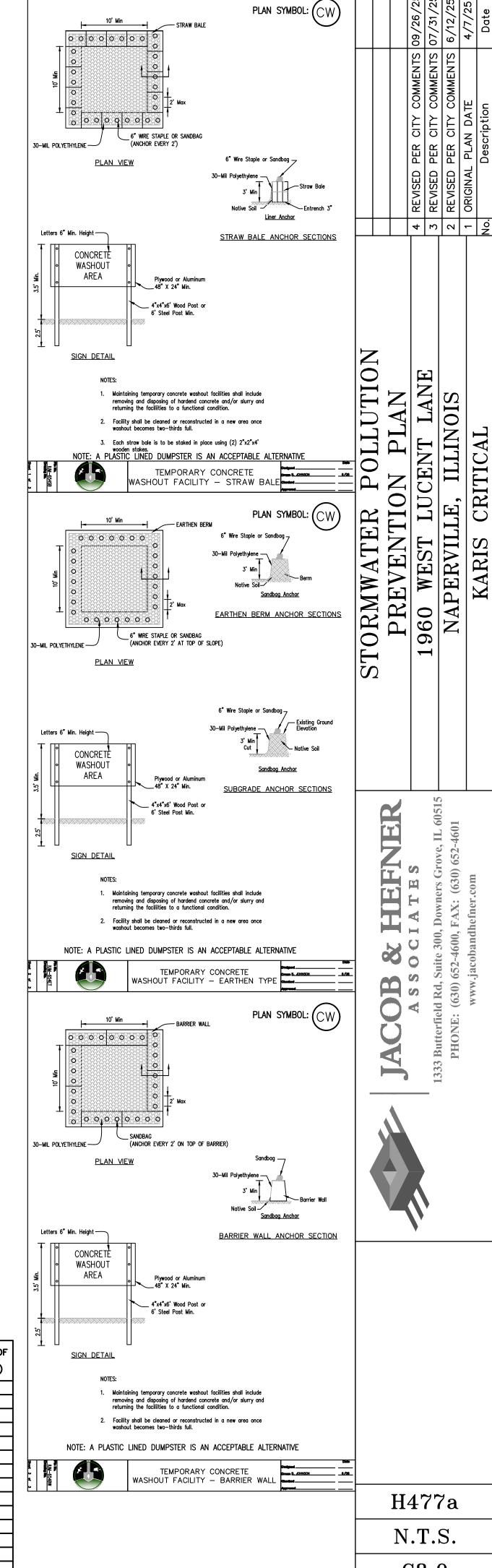
I certify under penalty of law that I understand the terms of the general National Pollutant Discharge Elimination System (NPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification.

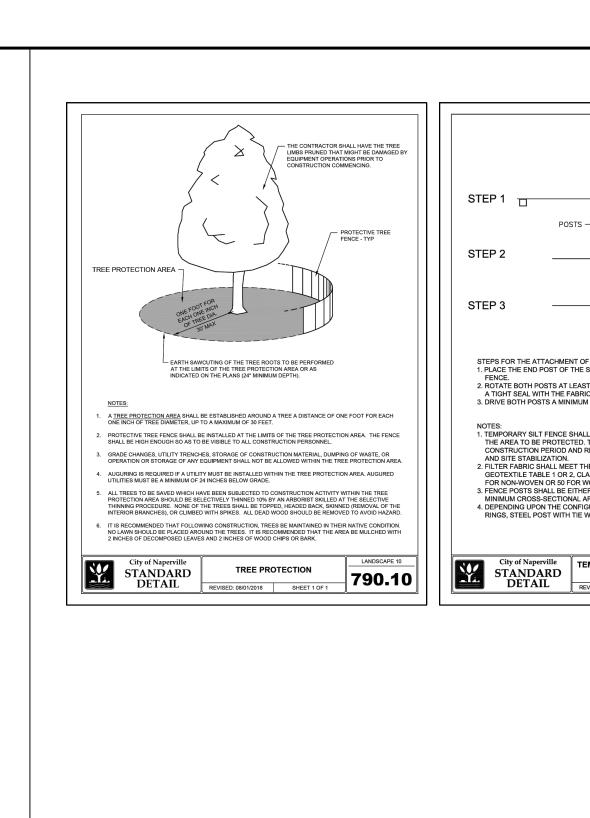
Signature:

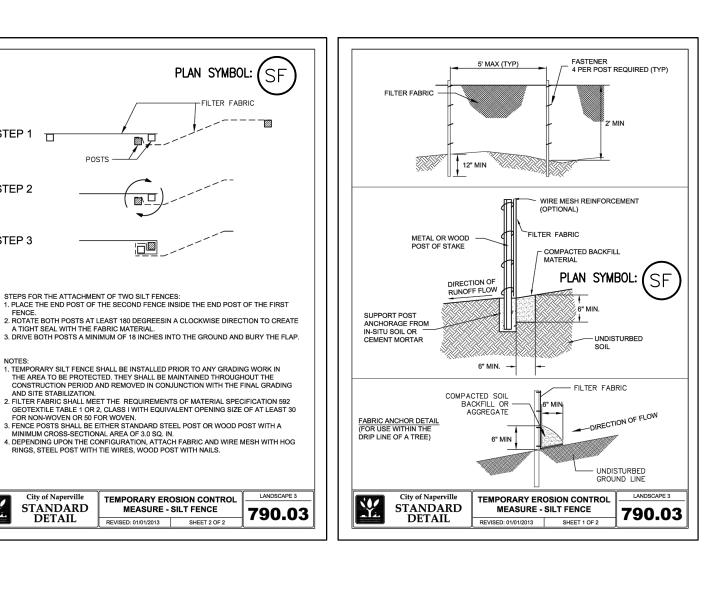
CONTRACTOR/SUBCONTRACTOR CERTIFICATION STATEMENT Signature Name:

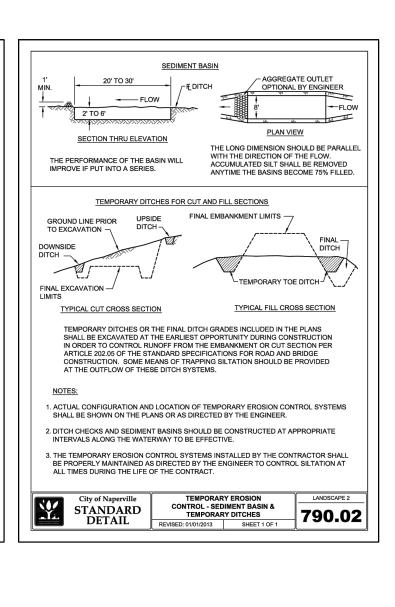
RIP-RAP DIMENSION TABLE

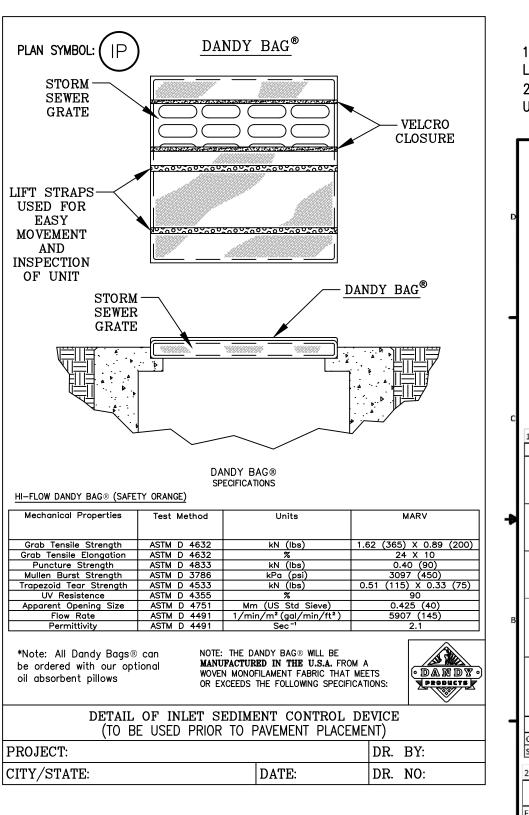
STRUCTURE NUMBER/POND	INLET PIPE SIZE d (IN)	DISCHARGE Q (CFS)	LENGTH OF APRON La (FT)	MEDIAN RIPRAP SIZE C (IN)	WIDTH OF APRON U/S FACE 3d (FT)	WIDTH OF APRON D/S FACE 3d+La (FT)	DEPTH OF RIP RAP Y (IN)	AREA OF RIP RAP (SQ.YDS.)	VOLUME OF RIP RAP (CU.YDS.)
ALL	12		10	6 (IDOT RR 3)	3.00	13.00	15	8.89	3.7
ALL	15		10	6 (IDOT RR 3)	3.75	13.75	15	9.72	4.1
ALL	18		15	9 (IDOT RR 4)	4.50	19.50	20	20.00	11.1
ALL	21		15	9 (IDOT RR 4)	5.25	20.25	20	21.25	11.8
ALL	24		18	9 (IDOT RR 4)	6.00	24.00	20	30.00	16.7
ALL	27		18	9 (IDOT RR 4)	6.75	24.75	20	31.50	17.5
ALL	30		20	9 (IDOT RR 4)	7.50	27.50	20	38.89	21.6
ALL	36		24	12 (IDOT RR 5)	9.00	33.00	28	56.00	43.6
ALL	42		27	12 (IDOT RR 5)	10.5	37.50	30	72.00	60.0
ALL	48		27	15 (IDOT RR 6)	12.0	39.00	32	76.50	68.0
ALL	54		27	15 (IDOT RR 6)	13.5	40.50	32	81.00	72.0
ALL	60		36	15 (IDOT RR 6)	15.0	51.00	32	132.00	118.0
ALL	72		44	18 (IDOT RR 7)	18.0	62.00	32	195.56	174.0
ALL	72		44	18 (IDOT RR 7)	18.0	62.00	32	195.56	

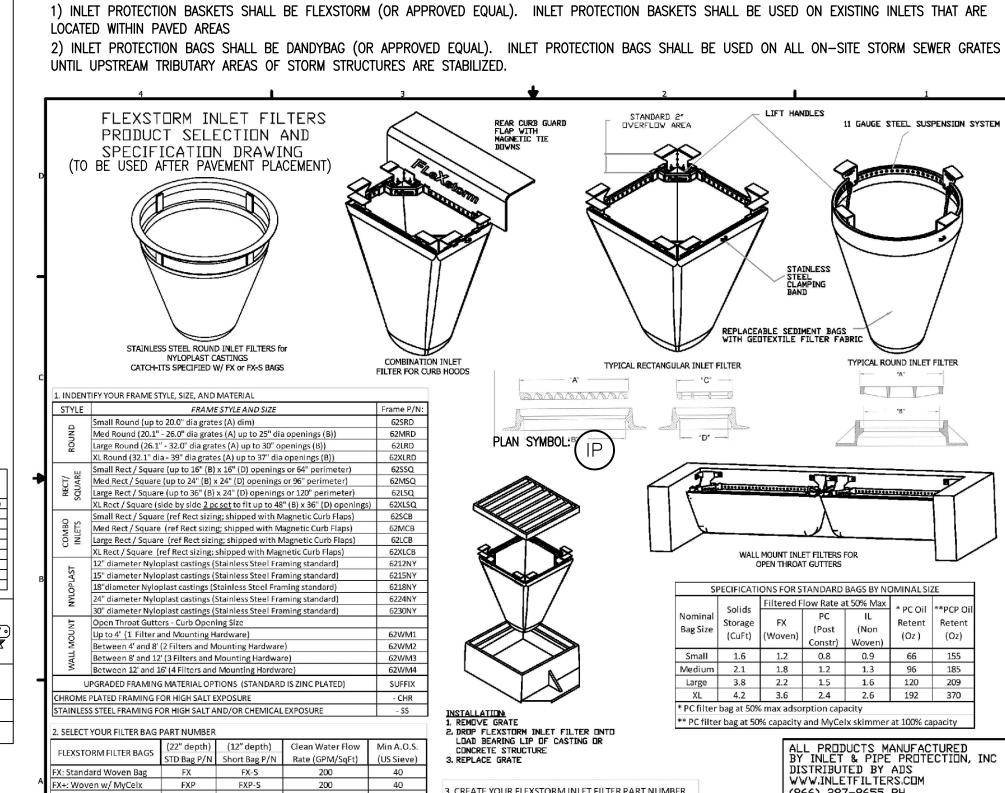












O: Woven w/ Oil Boom FXO FXO-S 200

Litter and Leaf Bag LL LL-S High

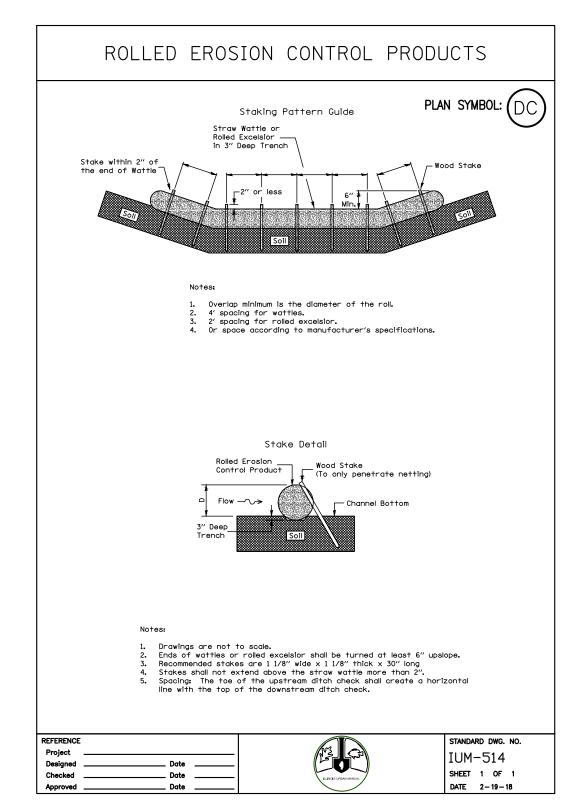
137

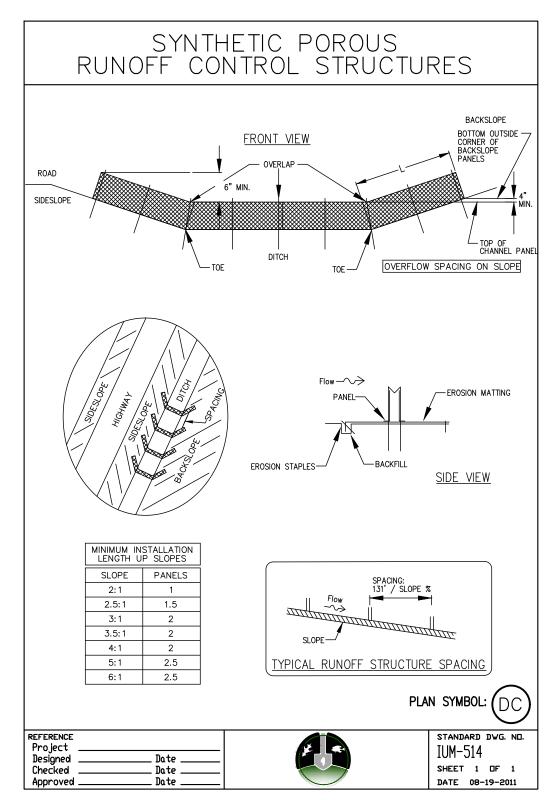
Post Construction Bag PC PC-S +: PC Bag w/ MyCelx PCP PCP-S

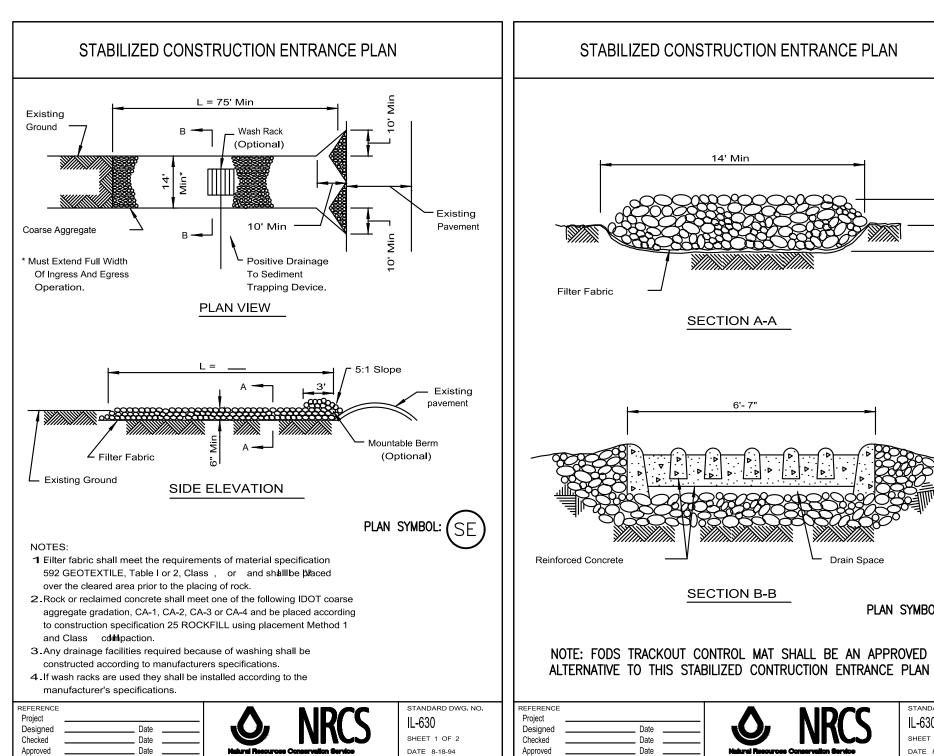
OT Non-Woven Bag

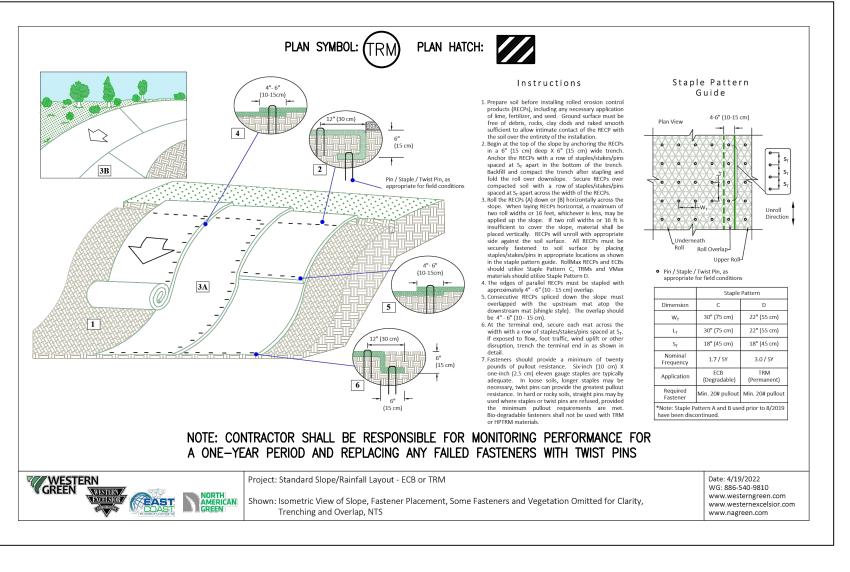
IL-630

INLET PROTECTION PRACTICES









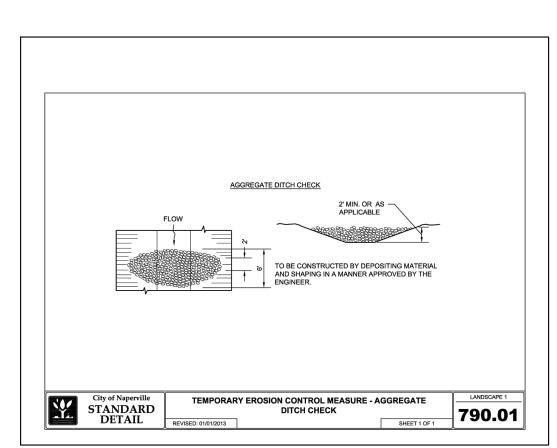
3. CREATE YOUR FLEXSTORM INLET FILTER PART NUMBER

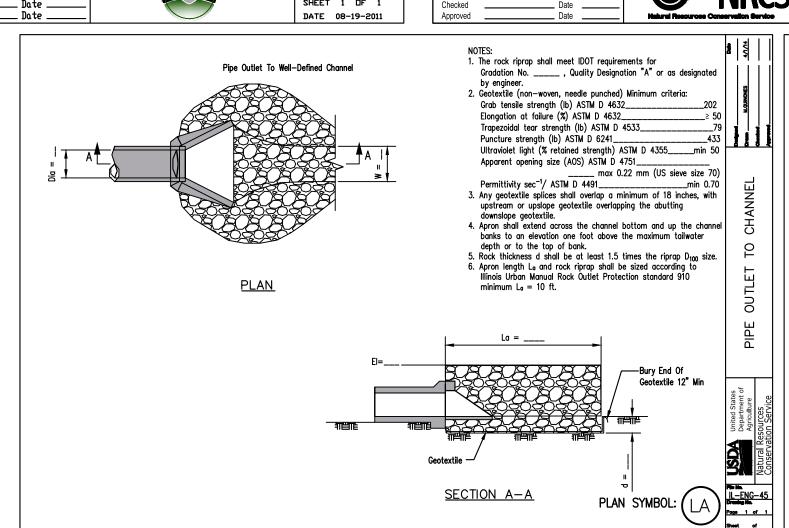
from Step 2.

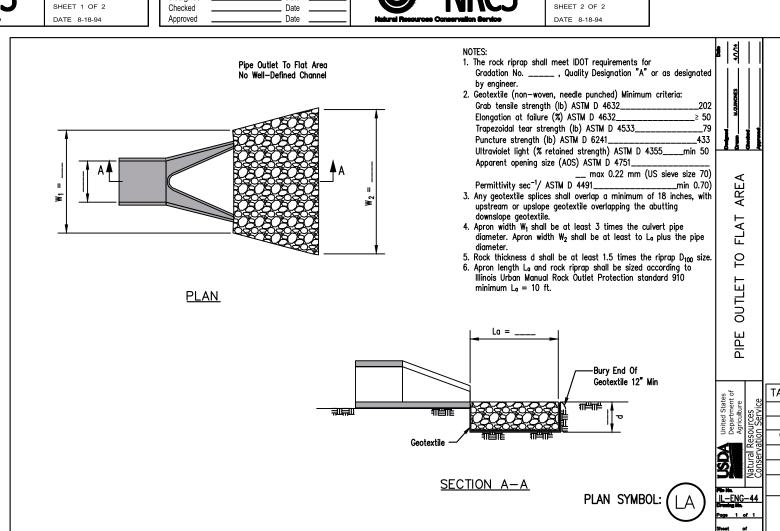
Framing

Material

Frame P/N from Filter Bag P/N

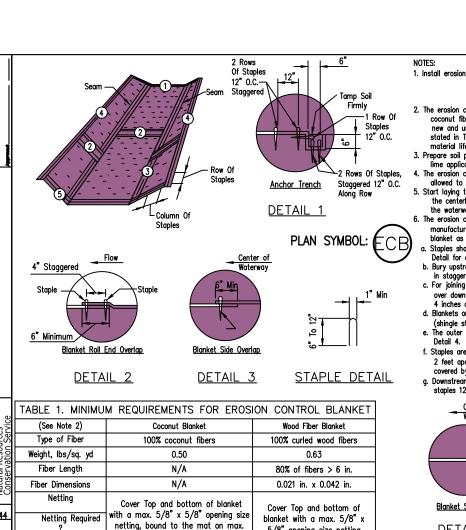






SECTION A-A

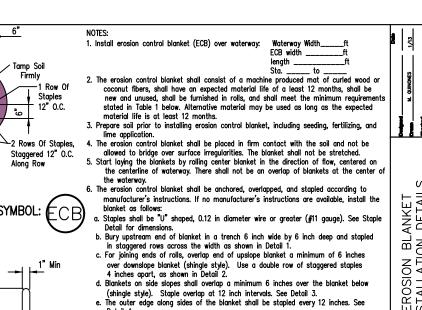
SECTION B-B



netting, bound_to the mat on max.

1.5" centers.

5/8" opening size netting



11 GAUGE STEEL SUSPENSION SYSTEM

TYPICAL ROUND INLET FILTER

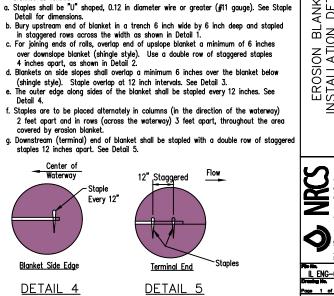
Retent Retent

(866) 287-8655 PH

(630) 355-3477 FX INFO@INLETFILTERS.COM

FLEXSTORM_SPECS

(Oz) (Oz)



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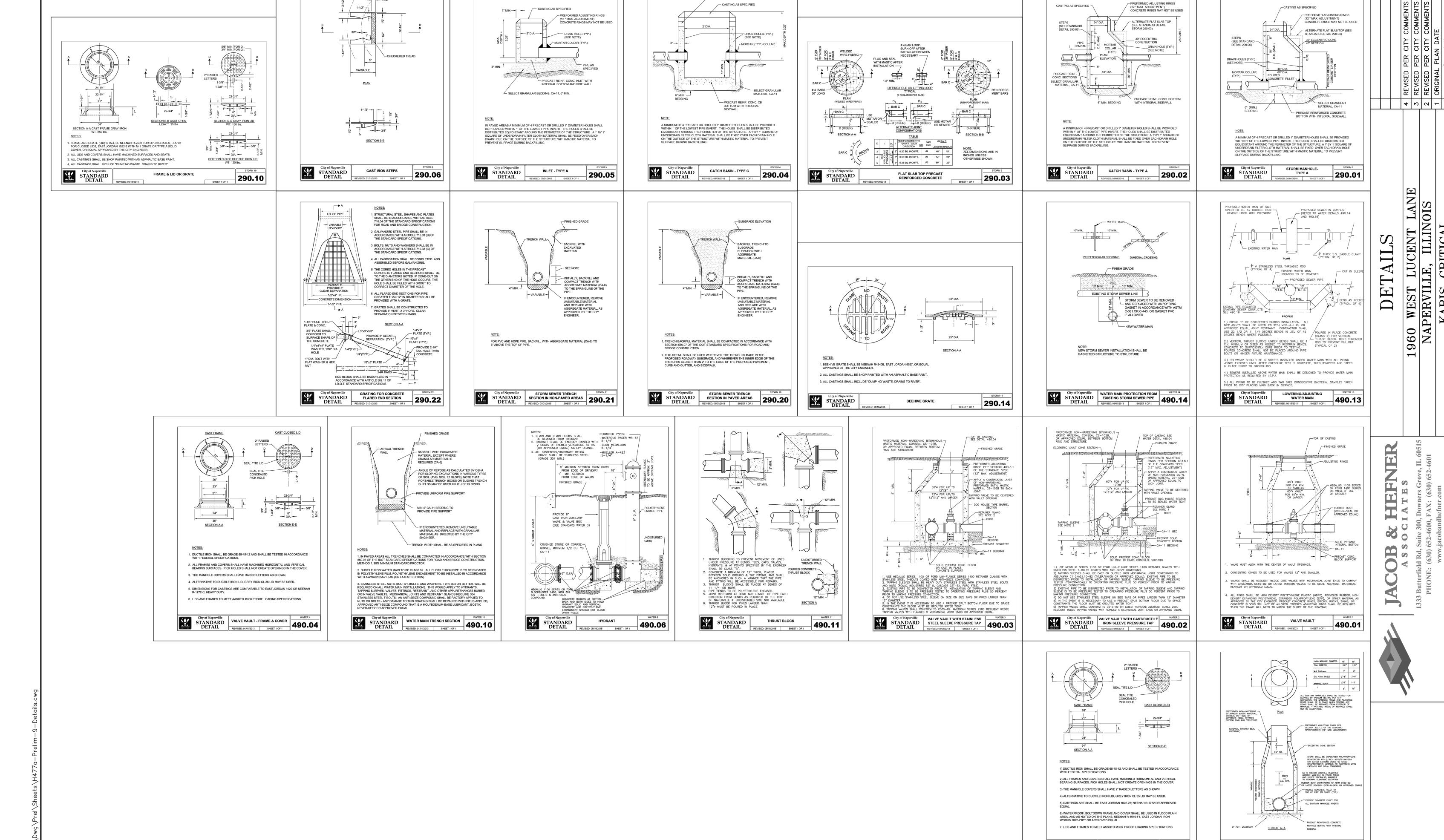
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Page 1 of 1

C8.1



(12 " MAX. ADJUSTMENT) CONCRETE RINGS MAY NOT BE USED

CASTING AS SPECIFIED

-CASTING AS SPECIFIED

- CASTING AS SPECIFIED

NOTE: IF SPECIFICATIONS AND/OR DETAILS PROVIDED IN THESE PLANS CONFLICT WITH THE CITY OF NAPERVILLE SPECIFICATIONS AND/OR DETAILS, THE CITY OF NAPERVILLE SHALL SUPERCEDE.

City of Naperville

City of Naperville
STANDARD
DETAIL
SANITARY SEWER MANHOLE
REVISED: 08/01/2018
SHEET 1 OF 1

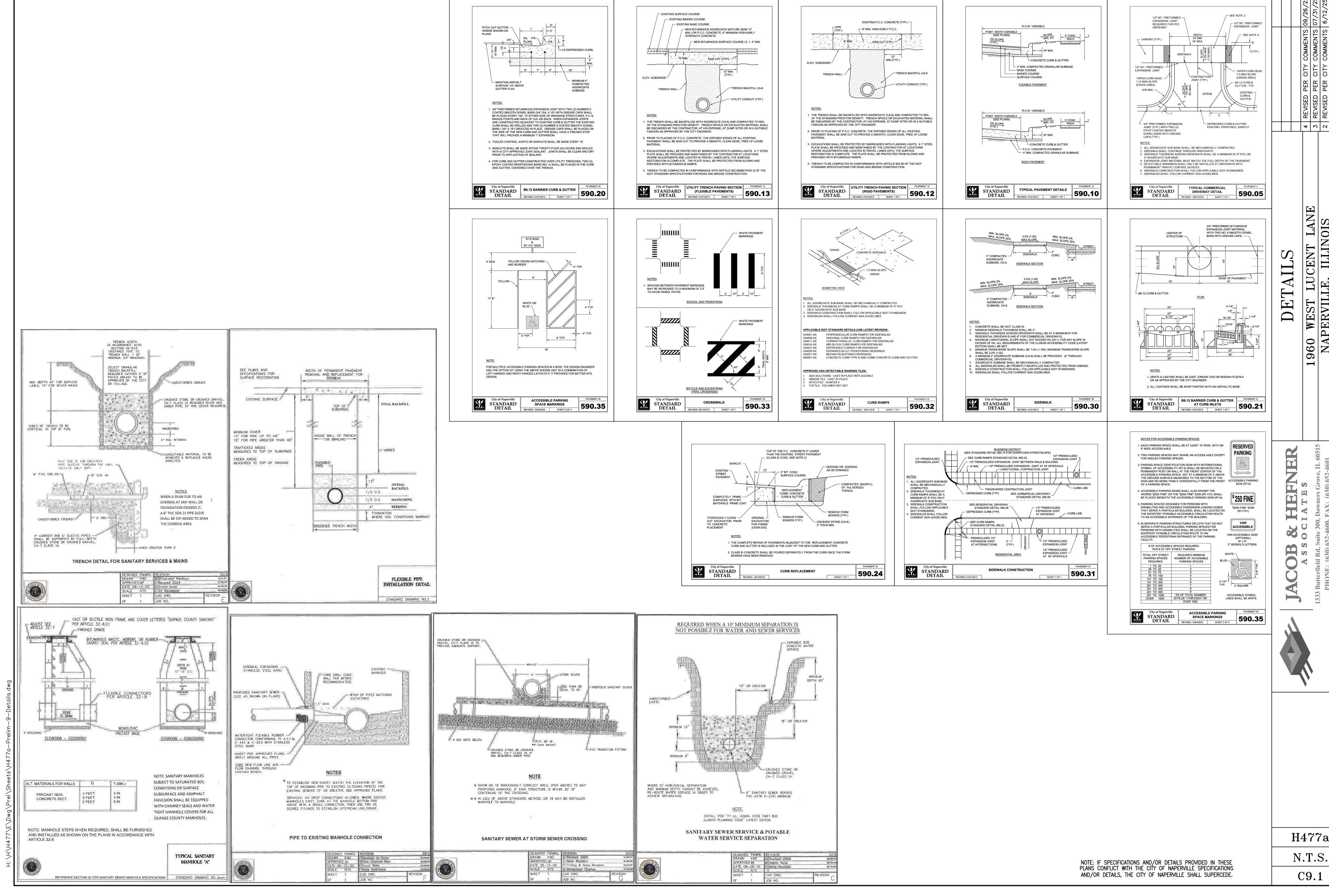
390.01

City of Naperville SANITARY MANHOLE - FRAME & SANITARY 6

DETAIL COVER 390.06

City of Naperville
STANDARD
DETAIL

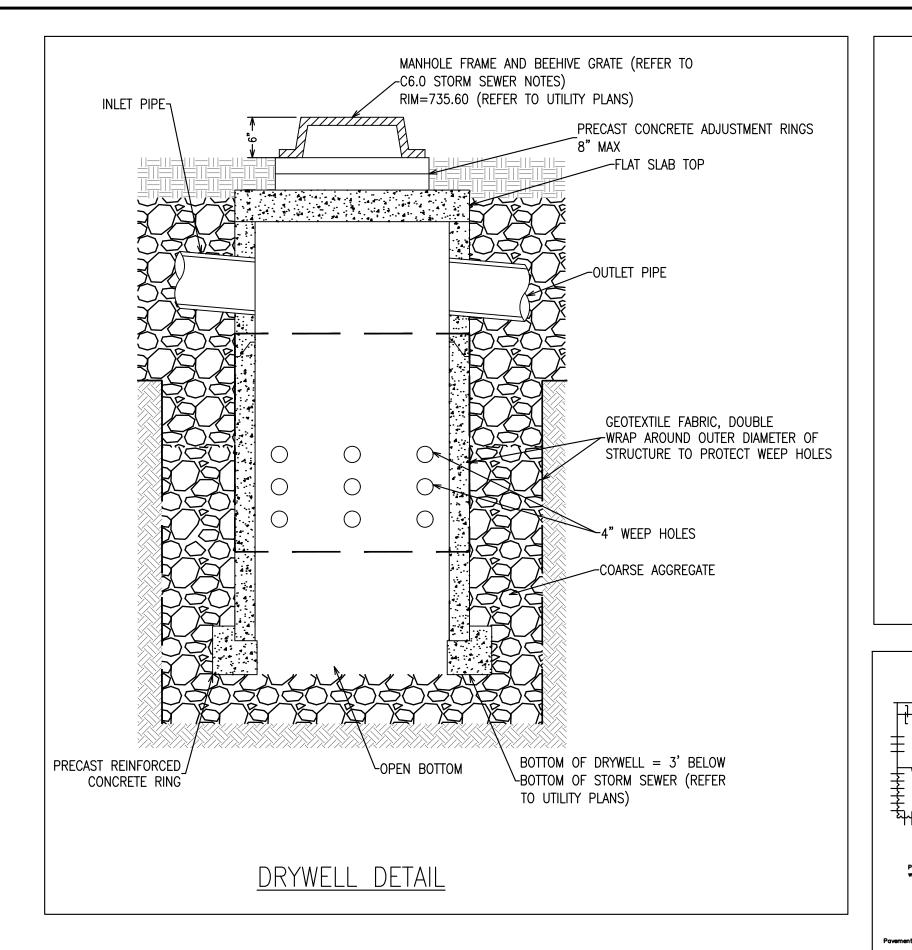
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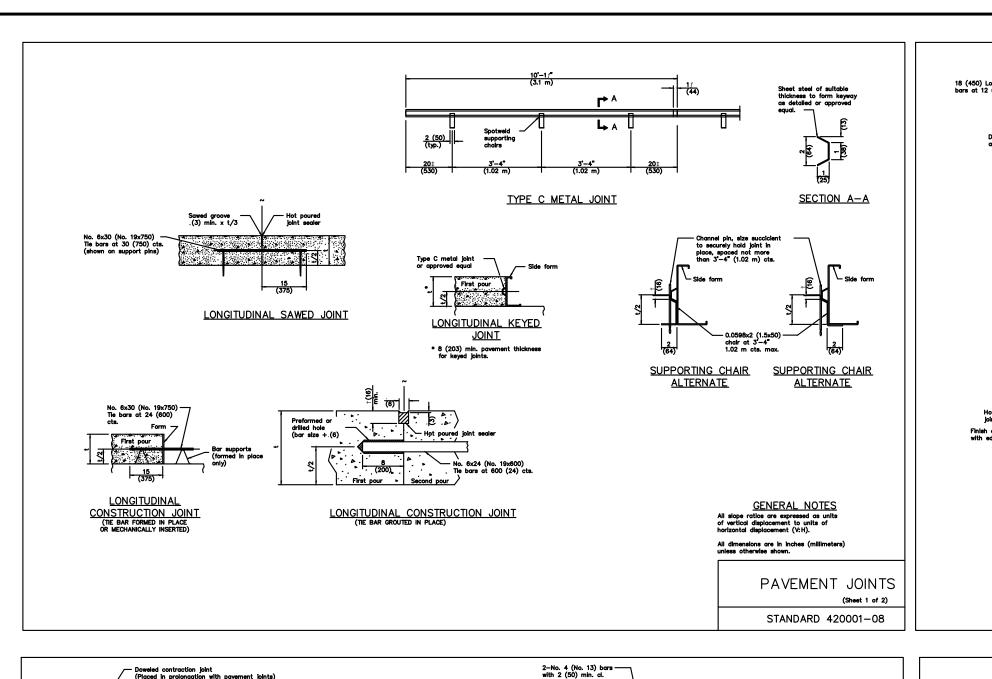


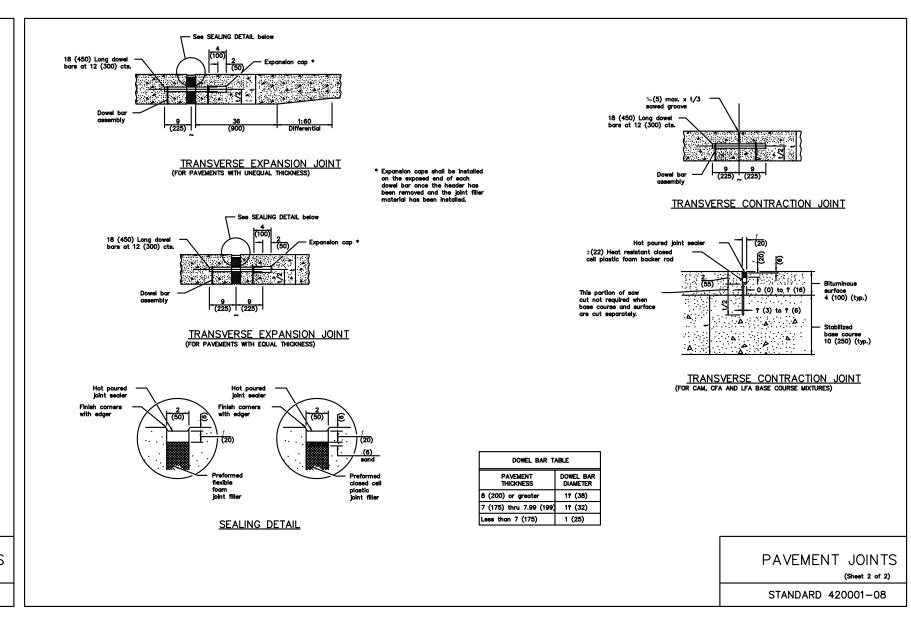
|4|W|G|-| r LANI INOIS CENT ST LU VILLE, WES VERV 960 NA

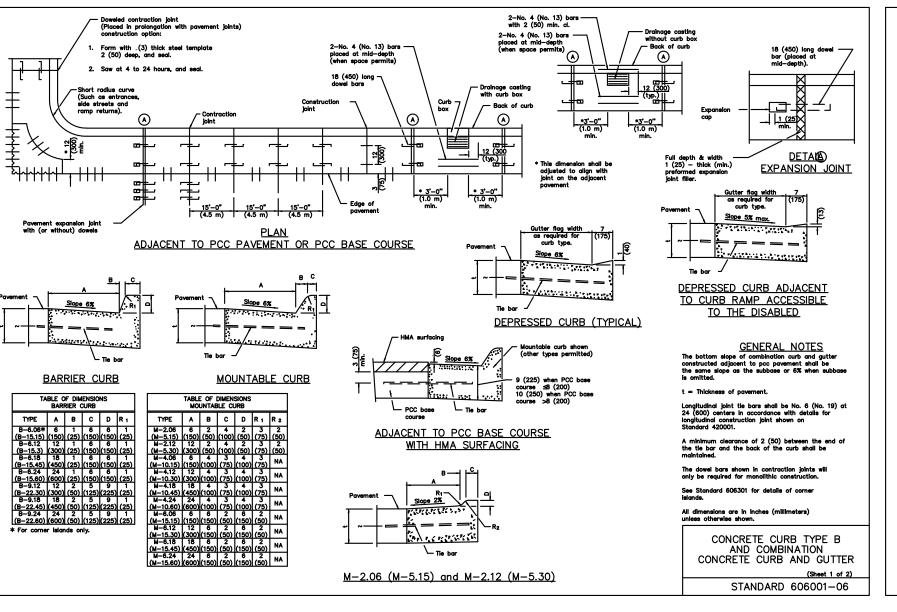
> 800 SS

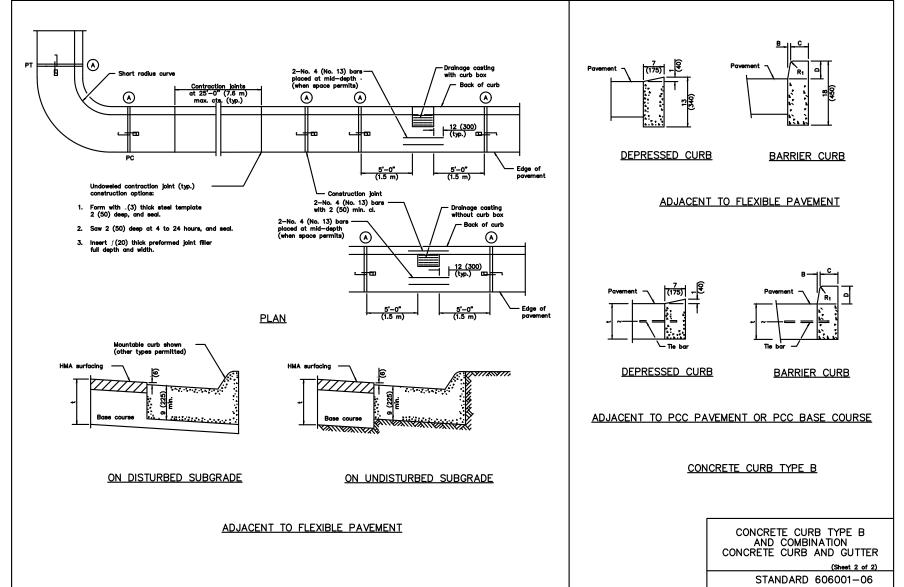
H477a

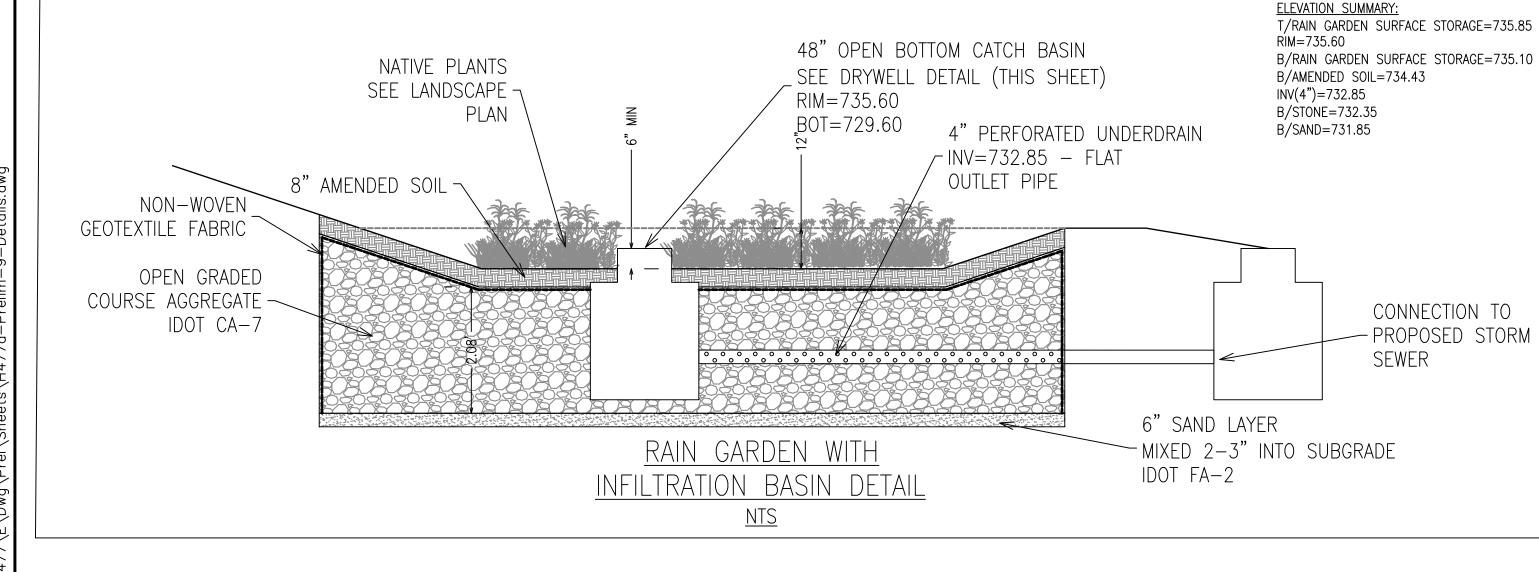












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LUCENT LANE LE, ILLINOIS

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DETA

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N.T.S.

C9.2

NOTE: IF SPECIFICATIONS AND/OR DETAILS PROVIDED IN THESE PLANS CONFLICT WITH THE CITY OF NAPERVILLE SPECIFICATIONS AND/OR DETAILS, THE CITY OF NAPERVILLE SHALL SUPERCEDE.