

UTILITY AND GOVERNING AGENCY CONTACTS

ROADWAY AUTHORITY

TEL: (847) 705-4131

1392 AURORA AVENUE

NAPERVILLE, IL 60540

TEL: (630) 420-6181 CONTÀCT: RON RITTER

NATURAL GAS COMPANY

NAPERVILLE, IL 60563

TEL: (888) 642-6748

TEL: (844) 931-0107

DEERFIELD, IL 60015

1844 FERRY RD

TELEPHONE

NICOR

201 WEST CENTER COURT SCHAUMBURG, IL 60196

ILLINOIS DEPARTMENT OF TRANSPORTATION

CONTACT: JONATHAN E. KARABOWICZ, P.E.

DEPARTMENT OF PUBLIC UTILITIES

TRANSPORTATION ENGINEERING DEVELOPMENT CITY OF NAPERVILLE 400 S. EAGLE ST NAPERVILLE, IL 60540 TEL: (630) 420-6043 CONTACT: GABRIELLE MATTINGLY, AICP

SANITARY SEWER SERVICE DEPARTMENT OF PUBLIC WORKS 400 S. EAGLE ST NAPERVILLE, IL 60540 TEL: (630) 420-4122 CONTACT: BILL BOLSTER

STORM SEWER SERVICE DEPARTMENT OF PUBLIC WORKS 400 S. EAGLE ST NAPERVILLE, IL 60540 TEL: (630) 420-4122 CONTACT: BILL BOLSTER

WATER SERVICE
DEPARTMENT OF PUBLIC WORKS 400 S. EAGLE ST NAPERVILLE, IL 60540 TEL: (630) 420-4122 CONTACT: BILL BOLSTER

FLECTRIC SERVICE NAPERVILLE ELECTRIC UTILITY 1392 AURORA SUITE 100 NAPERVILLE, IL 60540 TEL: (630) 420-6653 CONTACT: BEN HENDRON

PROJECT TEAM

CASEY'S RETAIL COMPANY 1 SE CONVENIENCE BLVD. ANKENY, IA 50021 TEL: (515) 318-9944 CONTACT: RICHARD MCMAHON

TRAFFIC ENGINEER KIMLEY-HORN AND ASSOCIATES, INC. 4201 WINFIELD RD, SUITE 600 WARRENVILLE, IL 60555 TEL: (630) 487-3435 EMAIL: EMMA.ALBERS@KIMLEY-HORN.COM CONTACT: EMMA ALBERS

KIMLEY-HORN AND ASSOCIATES, INC. 570 LAKE COOK RD, SUITE 200

TEL: (630) 487-5550 EMAIL: ERIC.TRACY@KIMLEY-HORN.COM CONTACT: ERIC TRACY, P.E. EMAIL: IAN.SPENCE@KIMLEY-HORN.COM CONTACT: IAN SPENCE, P.E.

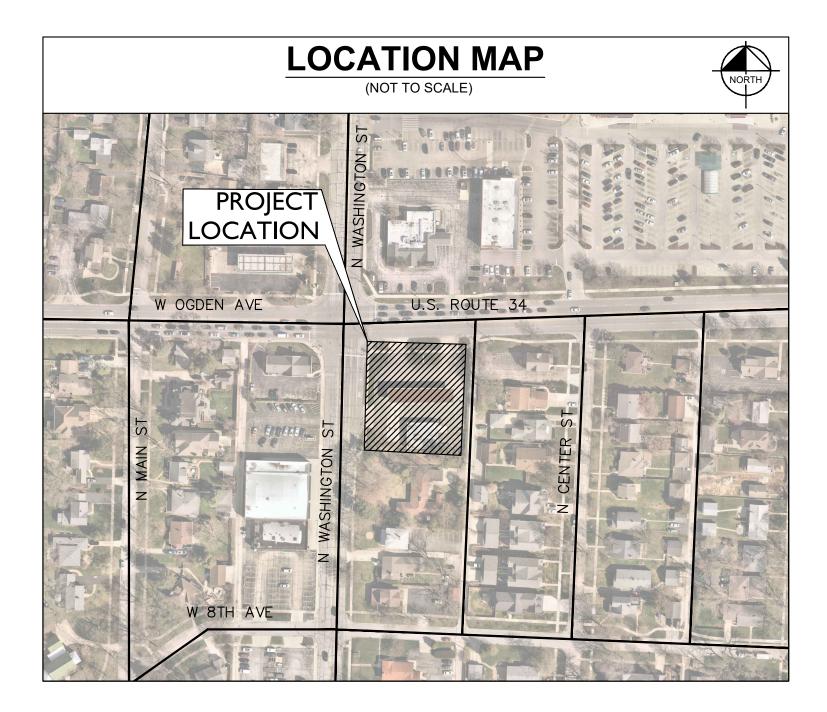
LANDSCAPE ARCHITECT KIMLEY-HORN AND ASSOCIATES, INC. 570 LAKE COOK RD, SUITE 200 DEERFIELD, IL 60015 TEL: (630) 487-5550 CONTÀCT: AMANDA MCABEE, P.L.A.

<u>SURVEYOR</u> COMPASS SURVEYING LTD. 2631 GINGER WOODS PARKWAY, SUITE 100 AURORA, IL 60502 TEL: (630) 820-7030 CONTACT: SCOTT KREBS, P.L.S.

LEGAL DESCRIPTION

LOTS 15, 16, 17 (EXCEPT THE WESTERLY 17.0 FEET THEREOF) AND LOT 18 (EXCEPT THE WESTERLY 17.0 FEET AND EXCEPT THE NORTHERLY 17.0 FEET THEREOF) IN BLOCK 4 IN PARK ADDITION TO NAPERVILLE, BEING A SUBDIVISION OF PART OF THE SOUTHEAST QUARTER OF SECTION 12 AND THE NORTHEAST QUARTER OF SECTION 13, TOWNSHIP 38 NORTH, RANGE 9 EAST OF THE THIRD PRINCIPAL MERIDIAN AND PART OF THE SOUTHWEST QUARTER OF SECTION 7 AND THE NORTHWEST QUARTER OF SECTION 18, TOWNSHIP 38 NORTH, RANGE 10 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED JULY 26, 1873 AS DOCUMENT 16618, IN DUPAGE COUNTY, ILLINOIS

NAPERVILLE, IL 60563



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	LIST OF HIGHWAY STANDARDS				
	606001-08	701701-10			
	701801-06 701901-10				
	IDOT DISTRICT 1 DETAILS				
	TC-13				

BENCHMARKS

SITE BENCHMARKS:

SITE BENCHMARK #1 SQUARE CUT ON NORTH SIDE OF LIGHT POLE BASE SOUTH OF THE SOUTH ENTRANCE ALONG WASHINGTON AVENUE ELEVATION = 707.82

SITE BENCHMARK #2 SQUARE CUT ON WEST SIDE OF LIGHT POLE EAST OF THE EAST ENTRANCE ALONG OGDEN AVENUE ELEVATION = 710.27

REFERENCE BENCHMARK: CITY OF NAPERVILLE SURVEY MONUMENT 1506

LOCATED BETWEEN 5TH AND 6TH AVENUE WEST SIDE OF MILL STREET

DATUM: NAVD88 ELEVATION = 690.61

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PROFESSIONAL ENGINEER'S CERTIFICATION

I, IAN SPENCE, A LICENSED PROFESSIONAL ENGINEER OF IL, HEREBY CERTIFY THAT THIS SUBMISSION, PERTAINING ONLY TO THE "C" SERIES CIVIL SHEETS LISTED ABOVE BUT EXCLUDING DETAILS PREPARED BY OTHERS, WAS PREPARED ON BEHALF OF CASEY'S BY KIMLEY-HORN AND ASSOCIATES, INC. UNDER MY PERSONAL DIRECTION. THIS TECHNICAL SUBMISSION IS INTENDED TO BE USED AS AN INTEGRAL PART OF AND IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS AND CONTRACT DOCUMENTS.

DATED THIS 7TH DAY OF JULY, A.D., 2025.

MY LICENSE EXPIRES ON NOVEMBER 30, 2025

DESIGN FIRM REGISTRATION NUMBER: 184002012-0006

IL LICENSED PROFESSIONAL ENGINEER 062-076630

IAN N. SPENCE 062-076630

ORIGINAL ISSUE: 10/01/2024 KHA PROJECT NO. 168865042 SHEET NUMBER

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Kimley » Horn

COMPASS SURVEYING LTD 2631 GINGER WOODS PKWY, SUITE 100 AURORA, IL 60502 TEL: (630) 820-7030

COPIES OF THE SURVEY ARE AVAILABLE FROM THE ENGINEER SITE CONDITIONS MAY HAVE CHANGED. SINCE THE SURVEY WAS PREPARED. CONTRACTORS TO VISIT SITE TO FAMILIARIZE THEMSELVES WITH THE CURRENT CONDITIONS.

COPIES OF SOILS INVESTIGATION REPORTS MAY BE OBTAINED FROM THE OWNER, ANY BRACING, SHEETING OR SPECIA CONSTRUCTION METHODS DEEMED NECESSARY BY THE CONTRACTOR IN ORDER TO INSTALL THE PROPOSED IMPROVEMENTS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE PROJECT, ANY ADDITIONAL SOILS DATA NEEDED TO CONFIRM THI CONTRACTOR'S OPINIONS OF THE SUBSOIL CONDITIONS SHALL BE DONE AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL OBTAIN THE OWNER'S WRITTEN AUTHORIZATION TO ACCESS THE SITE TO CONDUCT A SUPPLEMENTAL

3. THE CONTRACTOR SHALL PHOTOGRAPH THE WORK AREA PRIOR TO CONSTRUCTION FOR THE PURPOSE OF DOCUMENTING EXISTING CONDITIONS.

4. EXCEPT WHERE MODIFIED BY THE CONTRACT DOCUMENTS, ALL PROPOSED WORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS WHICH ARE HEREBY MADE A PART HEREOF:

A. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS." AS PREPARED BY IDOT. LATEST

EDITION. B. "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" AS PUBLISHED BY THE ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY (IEPA), LATEST EDITION. C. "ILLINOIS RECOMMENDED STANDARDS FOR SEWAGE WORKS," AS PUBLISHED BY THE ILLINOIS ENVIRONMENTAL

PROTECTION AGENCY (IEPA), LATEST EDITION.

D. REGULATIONS, STANDARDS AND GENERAL REQUIREMENTS SET FORTH BY THE MUNICIPALITY, UNLESS OTHERWISE NOTED ON THE PLANS.

E. THE NATIONAL ELECTRIC CODE.

F. ALL APPLICABLE PROVISIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT ARE HEREIN INCORPORATED BY REFERENCE.

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 THE CONTRACTOR'S WORK MAY NOT BE SPECIFICALLY NOTED, BUT ARE CONSIDERED A PART OF THE CONTRACTOR'S CONTRACT.

6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL ITEMS REQUIRED FOR CONSTRUCTION OF THE PROJECT, AS SHOWN ON THE PLANS, ARE INCLUDED IN THE CONTRACT. ANY ITEM NOT SPECIFICALLY INCLUDED IN THE CONTRACT, BUT SHOWN ON THE PLANS, SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IN THE EVENT OF A DISCREPANCY WITH THE PLANS AND QUANTITIES.

7. THE CONTRACTOR IS RESPONSIBLE FOR HAVING A SET OF "APPROVED" ENGINEERING PLANS WITH THE LATEST REVISION DATE ON THE JOB SITE PRIOR TO THE START OF CONSTRUCTION, IF THERE ARE ANY DISCREPANCIES WITH WHAT IS SHOWN ON THE CONSTRUCTION PLANS HE MUST IMMEDIATELY REPORT THEM TO THE SURVEYOR OR ENGINEER REFORE DOING ANY WORK, OTHERWISE, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY, IN THE EVENT OF DISAGREEMENT BETWEEN 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 THE CONTRACTOR'S 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 OF THE ENGINEER SHALL BE FINAL

8. THE CONTRACTOR SHALL SUBSCRIBE TO ALL GOVERNING REGULATIONS AND SHALL OBTAIN ALL NECESSARY PUBLIC AGENCY PERMITS PRIOR TO STARTING WORK, THE CONTRACTOR, BY USING THESE PLANS FOR THEIR WORK, AGREE TO HOLD HARMLESS KIMLEY-HORN AND ASSOCIATES, INC. THE MUNICIPALITY, THEIR EMPLOYEES AND AGENTS AND THE OWNER FROM AND AGAINST ANY AND ALL LIABILITY, CLAIMS, DAMAGES, AND THE COST OF DEFENSE ARISING OUT OF CONTRACTOR(S) PERFORMANCE OF THE WORK DESCRIBED HEREIN.

9. THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS OR FOR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS

10. CONSTRUCTION MATERIALS AND/OR EQUIPMENT MAY NOT BE STORED IN THE RIGHT-OF-WAY, AS

11. EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES WITHIN PUBLIC RIGHT-OF-WAYS ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF THESE UTILITY LINES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT WITH LOCATIONS OF THE NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.

12. OWNER SHALL OBTAIN EASEMENTS AND APPROVAL OF PERMITS NECESSARY TO FACILITATE CONSTRUCTION OF THE PROPOSED UTILITIES. THE CONTRACTOR, HOWEVER, SHALL FURNISH ALL REQUIRED BONDS AND EVIDENCE OF INSURANCE NECESSARY TO SECURE THESE PERMITS AND EASEMENTS.

13. THE CONTRACTOR SHALL PRESERVE ALL CONSTRUCTION STAKES UNTIL THEY ARE NO LONGER NEEDED. ANY STAKES DESTROYED OR DISTURBED BY THE CONTRACTOR PRIOR TO THEIR USE SHALL BE RESET BY THE SURVEYOR AT THE CONTRACTOR'S EXPENSE.

14. NOTIFICATION OF COMMENCING CONSTRUCTION:

DIRECTED BY THE OWNER.

14.A. THE CONTRACTOR SHALL NOTIFY AFFECTED GOVERNMENTAL AGENCIES IN WRITING AT LEAST THREE FULL WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL NOTIFY, AS NECESSARY, ALL TESTING AGENCIES. THE MUNICIPALITY, AND THE OWNER SUFFICIENTLY IN ADVANCE OF CONSTRUCTION.

14.B. FAILURE OF THE CONTRACTOR TO ALLOW PROPER NOTIFICATION TIME WHICH RESULTS IN THE TESTING COMPANIES TO BE UNABLE TO VISIT THE SITE AND PERFORM TESTING WILL CAUSE THE CONTRACTOR TO SUSPEND THE OPERATION TO BE TESTED UNTIL THE TESTING AGENCY CAN SCHEDULE TESTING OPERATIONS. COST OF SUSPENSION OF WORK SHALL BE BORNE BY THE CONTRACTOR.

15. ALL CONTRACTORS SHALL KEEP ACCESS AVAILABLE AT ALL TIMES FOR ALL EMERGENCY TRAFFIC, AS DIRECTED BY THE

16. ANY EXISTING SIGNS, LIGHT STANDARDS, AND UTILITY POLES THAT INTERFERE WITH CONSTRUCTION OPERATIONS AND ARE NOT NOTED ON THE PLANS FOR DISPOSAL SHALL BE REMOVED AND RESET BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE, AS DIRECTED BY THE ENGINEER. ANY DAMAGE TO THESE ITEMS SHALL BE REPAIRED OR REPLACED BY TH CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE TO THE SATISFACTION OF THE OWNER. ANY SIGNS NOT REQUIRED TO BE RESET SHALL BE DELIVERED TO THE RESPECTIVE OWNERS.

17. ALL TREES TO BE SAVED SHALL BE IDENTIFIED PRIOR TO CONSTRUCTION BY THE LANDSCAPE ARCHITECT AND SHALL BE PROTECTED PER IDOT SECTION 201.05. THE RIGHT-OF-WAY LINE AND LIMITS OF THE CONTRACTOR'S OPERATIONS SHALL BE CLEARLY DEFINED THROUGHOUT THE CONSTRUCTION PERIOD. ALL TREES NOTED TO REMAIN SHALL BE PROTECTED FROM DAMAGE TO TRUNKS, BRANCHES AND ROOTS. NO EXCAVATING, FILLING OR GRADING IS TO BE DONE INSIDE THE DRIP LINE OF TREES UNLESS OTHERWISE INDICATED.

18. LIMB PRUNING SHALL BE PERFORMED UNDER THE SUPERVISION OF AN APPROVED LANDSCAPE ARCHITECT, FORESTER, OR ARBORIST AND SHALL BE UNDERTAKEN IN A TIMELY FASHION SO AS NOT TO INTERFERE WITH CONSTRUCTION. ALL LIMBS, BRANCHES, AND OTHER DEBRIS RESULTING FROM THE CONTRACTOR'S WORK SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE. ALL CUTS OVER ONE (1) INCH IN DIAMETER SHALL BE PAINTED WITH

19. ALL EXISTING PAVEMENT OR CONCRETE TO BE REMOVED SHALL BE SAWCUT ALONG LIMITS OF PROPOSED REMOVAL BEFORE

20. 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 CONTRACTOR'S WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT UNLESS A PAY ITEM IS LISTED ON THE BID LIST.

21. REMOVAL OF SPECIFIED ITEMS, INCLUDING BUT NOT LIMITED TO, PAVEMENT, SIDEWALK, CURB, CURB AND GUTTER. CULVERTS, ETC., SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE. THE CONTRACTOR IS RESPONSIBLE FOR ANY PERMITS REQUIRED FOR SUCH DISPOSAL 22. THE CONTRACTOR SHALL COLLECT AND REMOVE ALL CONSTRUCTION DEBRIS, EXCESS MATERIALS, TRASH, OIL AND GREASE

RESIDUE, MACHINERY, TOOLS, AND OTHER MISCELLANEOUS ITEMS WHICH WERE NOT PRESENT PRIOR TO PROJECT COMMENCEMENT AT NO ADDITIONAL EXPENSE TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ANY AND ALL PERMITS NECESSARY FOR THE HAULING AND DISPOSAL REQUIRED FOR CLEANUP, AS DIRECTED BY THE ENGINEER OR OWNER. BURNING ON THE SITE IS NOT PERMITTED.

23. NO UNDERGROUND WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE COVERED UNTIL IT HAS BEEN APPROVED BY THE MUNICIPALITY. APPROVAL TO PROCEED MUST BE OBTAINED FROM THE MUNICIPALITY PRIOR TO INSTALLING PAVEMENT BASE, BINDER, AND SURFACE, AND PRIOR TO POURING ANY CONCRETE AFTER FORMS HAVE BEEN SET, AS NECESSARY.

24. WHERE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER, EXISTING DRAINAGE STRUCTURES AND PIPE SHALL BE CLEANED OF DEBRIS AND PATCHED AS NECESSARY TO ASSURE INTEGRITY OF THE STRUCTURE. THE CONTRACTOR'S WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE MERGED INTO THE CONTRACT UNIT PRICE EACH FOR STRUCTURES AND CONTRACT UNIT PRICE PER LINEAL FOOT FOR STORM SEWERS, WHICH SHALL BE PAYMENT IN FULL FOR CLEANING, PATCHING, REMOVAL, AND DISPOSAL OF DEBRIS AND DIRT. DRAINAGE STRUCTURES AND STORM SEWERS CONSTRUCTED AS PART OF THE CONTRACTOR'S PROJECT SHALL BE MAINTAINED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. NO EXTRA PAYMENT WILL BE MADE FOR CLEANING STRUCTURES OR STORM SEWERS CONSTRUCTED AS PART OF THE

25. 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 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. (1-800-892-0123) AND THE MUNICIPALITY FOR UTILITY LOCATIONS

. THE GENERAL CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO PROVIDE CABLE TV, PHONE, ELECTRIC, GAS AND IRRIGATION SERVICES. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING SITE LAYOUTS FOR THESE UTILITIES AND SHALL COORDINATE AND PROVIDE CONDUIT CROSSINGS AS REQUIRED. THIS COORDINATION SHALL BE CONSIDERED INCIDENTAL TO GENERAL CONTRACTOR AGREEMENT WITH THE OWNER. ANY CONFLICTS IN UTILITIES SHALL BE CORRECTED BY THE GENERAL CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

27. CONTRACTOR IS TO VERIFY ALL EXISTING STRUCTURES AND FACILITIES AT ALL PROPOSED UTILITY CONNECTION LOCATIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL AND STARTING WORK.

28. ANY FIELD TILES ENCOUNTERED SHALL BE INSPECTED BY THE ENGINEER. THE DRAIN TILE SHALL BE CONNECTED TO THE STORM SEWER SYSTEM AND A RECORD KEPT BY THE CONTRACTOR OF THE LOCATIONS AND TURNED OVER TO THE ENGINEER UPON COMPLETION OF THE PROJECT. THE COST OF THE CONTRACTOR'S WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT, AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

29. ALL FRAMES AND LIDS FOR STORM AND SANITARY SEWERS, VALVE VAULT COVERS, FIRE HYDRANTS, AND B-BOXES ARE TO BE ADJUSTED TO MEET FINISHED GRADE. THE CONTRACTOR'S ADJUSTMENT IS TO BE MADE BY THE SEWER AND WATER CONTRACTOR, AND THE COST IS TO BE CONSIDERED INCIDENTAL. THESE ADJUSTMENTS TO FINISHED GRADE WILL NOT ALLEVIATE THE CONTRACTOR FROM ANY ADDITIONAL ADJUSTMENTS AS REQUIRED BY THE MUNICIPALITY UPON FINAL

30. HYDRANTS SHALL NOT BE FLUSHED DIRECTLY ONTO THE ROAD SUBGRADES. WHENEVER POSSIBLE, HOSES SHALL BE USED TO DIRECT THE WATER INTO LOT AREAS OR THE STORM SEWER SYSTEM, IF AVAILABLE. DAMAGE TO THE ROAD SUBGRADE OR LOT GRADING DUE TO EXCESSIVE WATER SATURATION AND/OR EROSION FROM HYDRANT FLUSHING, OR FROM LEAKS IN THE WATER DISTRIBUTION SYSTEM, WILL BE REPAIRED BY THE CONTRACTOR FLUSHING OR USING THE HYDRANT AT THE CONTRACTOR'S OWN EXPENSE. LEAKS IN THE WATER DISTRIBUTION SYSTEM SHALL BE THE RESPONSIBILITY OF THE WATER MAIN CONTRACTOR AND SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

31. TRENCH BACKFILL WILL BE REQUIRED TO THE FULL DEPTH ABOVE SEWERS AND WATERMAIN WITHIN TWO (2) FEET HORIZONTAL OF PROPOSED OR EXISTING PAVEMENT.

32. IF SOFT, SPONGY, OR OTHER UNSUITABLE SOILS WITH UNCONFINED COMPRESSIVE STRENGTH LESS THAN 0.5 TSF ARE

ENCOUNTERED AT THE BOTTOM OF THE TRENCH, ALL SUCH MATERIAL SHALL BE REMOVED AND REPLACED WITH WELL-COMPACTED, CRUSHED LIMESTONE BEDDING MATERIAL, IF ROCK IS ENCOUNTERED, IT SHALL BE REMOVED TO AT LEAST SIX (6) INCHES BELOW THE BOTTOM OF THE PIPE TO ALLOW PROPER THICKNESS OF BEDDING. ANY UNDERCUTS OF TWO (2) FEET OR LESS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. DEPTHS GREATER THAN TWO (2) FEET SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PROCEEDING.

3. THE TRENCHES FOR PIPE INSTALLATION SHALL BE KEPT DRY AT ALL TIMES DURING PIPE PLACEMENT, APPROPRIATE FACILITIES TO MAINTAIN THE DRY TRENCH SHALL BE PROVIDED BY THE CONTRACTOR, AND THE COST OF SUCH SHALL BE INCIDENTAL TO THE UNIT PRICE BID FOR THE ITEM. PLANS FOR THE SITE DEWATERING, IF EMPLOYED, SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER PRIOR TO IMPLEMENTATION. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR

DEWATERING DURING CONSTRUCTION UNLESS APPROVED IN WRITING BY THE OWNER. . AFTER THE STORM SEWER SYSTEM HAS BEEN CONSTRUCTED, THE CONTRACTOR SHALL PLACE PROPER INLET PROTECTION

EROSION CONTROL AT LOCATIONS INDICATED BY THE ENGINEER. THE PURPOSE OF THE INLET PROTECTION WILL BE TO MINIMIZE THE AMOUNT OF SILTATION THAT NORMALLY WOULD ENTER THE STORM SEWER SYSTEM FROM ADJACENT AND/OR UPSTREAM DRAINAGE AREAS.

. AT THE CLOSE OF EACH WORKING DAY AND AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS.

. EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH IEPA REGULATIONS AND IDOT STANDARDS FOR SOIL EROSION AND SEDIMENTATION CONTROL AND SHALL BE MAINTAINED BY THE CONTRACTOR AND REMAIN IN PLACE UNTIL A SUITABLE GROWTH OF GRASS, ACCEPTABLE TO THE ENGINEER, HAS DEVELOPED.

. THE CONTRACTOR SHALL CONFORM TO ALL EROSION CONTROL REQUIREMENTS AS SET FORTH BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY THROUGH THE NPDES PHASE II PERMIT PROGRAM REQUIREMENTS AND GOVERNING MUNICIPALITY. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL EROSION CONTROL MEASURES AS INDICATED ON THE EROSION CONTROL DRAWINGS AND SPECIFICATIONS AS WELL AS THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED BY KIMLEY-HORN AND ASSOCIATES, INC. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING THE PROVISIONS INDICATED IN THE SWPPP AT A MINIMUM, INCLUDING EROSION CONTROL MEASURES AND INSPECTION FREQUENCY, AS REQUIRED BY THE IEPA NPDES PHASE II PERMIT PROGRAM REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL SWPPP DOCUMENTATION CURRENT AND READILY AVAILABLE ON THE PROJECT SITE AT ALL TIMES FOR REVIEW BY THE OWNER, ENGINEER, AND REGULATORY AGENCIES. KIMLEY-HORN AND ASSOCIATES, INC. IS NOT

RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS OR SUPPLIERS, WHICH CONTRIBUTE

TO DEFICIENCIES IN THE SWPPP OR ANY VIOLATIONS RESULTING FROM INADEQUATE EROSION CONTROL PROTECTION AND/OR DOCUMENTATION. . THE PAVEMENT SHALL BE KEPT FREE OF MUD AND DEBRIS AT ALL TIMES. IT MAY BE NECESSARY

TO KEEP A SWEEPER ON-SITE AT ALL TIMES. ALL DISTURBED AREAS OF THE RIGHT-OF-WAY SHALL BE FULLY RESTORED TO PRE-CONSTRUCTION CONDITIONS WITH A MINIMUM OF SIX (6) INCHES OF TOPSOIL, SEEDING, AND MULCH AS PER IDOT

. ALL PROPOSED GRADES SHOWN ON PLANS ARE FINISHED SURFACE ELEVATIONS, UNLESS NOTED OTHERWISE.

ALL TESTING SHALL BE THE RESPONSIBILITY AND EXPENSE OF THE CONTRACTOR IF REQUIESTED BY THE MUNICIPALITY OR ENGINEER, COPIES OF ALL TEST RESULTS SHALL BE PROVIDED TO THE ENGINEER

2. PROVIDE SMOOTH VERTICAL CURVES THROUGH HIGH AND LOW POINTS INDICATED BY SPOT ELEVATIONS. PROVIDE UNIFORM SLOPES BETWEEN NEW AND EXISTING GRADES. AVOID RIDGES AND DEPRESSIONS.

WHEN REQUIRED. THE CONTRACTOR SHALL NOTIFY THE OWNER WHEN RECORD DRAWINGS CAN BE PREPARED. RECORD DRAWINGS SHALL INDICATE THE FINAL LOCATION AND LAYOUT OF ALL IMPROVEMENTS, INCLUDING VERIFICATION OF ALL CONCRETE PADS, INVERT, RIM, AND SPOT GRADE ELEVATIONS, AND INCORPORATE ALL FIELD DESIGN CHANGES APPROVED BY THE OWNER.

. BEFORE ACCEPTANCE, ALL WORK SHALL BE INSPECTED BY THE MUNICIPALITY, AS NECESSARY.

THAT PAVEMENT THICKNESS, TOPSOIL, ETC., MUST BE ACCOUNTED FOR.

EARTHWORK NOTES

1.1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE SOIL AND GROUNDWATER CONDITIONS AT THE SITE. 1.2. ANY QUANTITIES IN THE BID PROPOSAL ARE INTENDED AS A GUIDE FOR THE CONTRACTOR'S USE IN DETERMINING THE

SCOPE OF THE COMPLETED PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALL MATERIAL QUANTITIES

.3. THE CONTRACTOR WILL NOTE THAT THE ELEVATIONS SHOWN ON THE CONSTRUCTION PLANS ARE FINISHED GRADE AND

4. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE DURING CONSTRUCTION AND PREVENT STORMWATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS. THE FAILURE TO PROVIDE PROPER DRAINAGE WILL NEGATE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT IHEREOF. FINAL GRADES SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION, SEDIMENTATION, AND TRAFFIC.

.5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES. THE INITIAL ESTABLISHMENT OF EROSION CONTROL PROCEDURES AND THE PLACEMENT OF SILT AND FILTER FENCING. ETC.. TO PROTECT ADJACENT PROPERTY. WETLANDS. ETC.. SHALL OCCUR BEFORE GRADING BEGINS. .6. PRIOR TO COMMENCEMENT OF GRADING ACTIVITIES, THE CONTRACTOR SHALL ERECT A CONSTRUCTION FENCE AROUND

ANY TREE DESIGNATED TO BE PRESERVED. SAID FENCE SHALL BE PLACED IN A CIRCLE CENTERED AROUND THE TREE, THE DIAMFTER OF WHICH SHALL BE SUCH THAT THE ENTIRE DRIP ZONE (EXTENT OF FURTHEST EXTENDING BRANCHES) SHALL BE WITHIN THE FENCE LIMITS. THE EXISTING GRADE WITHIN THE FENCED AREA SHALL NOT BE DISTURBED. 7. EXISTING SUBSURFACE CONDITIONS WERE OBTAINED FROM A GEOTECHNICAL PREPARED BY:

N/A TOPSOIL EXCAVATION INCLUDES:

EARTH EXCAVATION INCLUDES:

STRIPPING TOPSOIL OR FILLING AREAS.

1. EXCAVATION OF TOPSOIL AND OTHER STRUCTURALLY UNSUITABLE MATERIALS WITHIN THOSE AREAS THAT WILL REQUIRE EARTH EXCAVATION OR COMPACTED EARTH FILL MATERIAL. EXISTING VEGETATION SHALL BE REMOVED PRIOR TO

2.2. PLACEMENT OF EXCAVATED MATERIAL IN OWNER—DESIGNATED AREAS FOR FUTURE USE WITHIN AREAS TO BE LANDSCAPED AND THOSE AREAS NOT REQUIRING STRUCTURAL FILL MATERIAL. PROVIDE NECESSARY EROSION CONTROL MEASURES FOR STOCKPILE.

2.3. TOPSOIL STOCKPILED FOR RESPREAD SHALL BE FREE OF CLAY AND SHALL NOT CONTAIN ANY OF THE TRANSITIONAL MATERIAL BETWEEN THE TOPSOIL AND CLAY. THE TRANSITIONAL MATERIAL SHALL BE USED IN NON-STRUCTURAL FILL AREAS OR DISPOSED OF OFF-SITE

2.4. TOPSOIL RESPREAD SHALL INCLUDE HAULING AND SPREADING SIX (6) INCHES OF TOPSOIL DIRECTLY OVER AREAS TO BE LANDSCAPED WHERE SHOWN ON THE PLANS OR AS DIRECTED BY THE OWNER.

2.5. MODERATE COMPACTION IS REQUIRED IN NON-STRUCTURAL FILL AREAS.

EXCAVATION OF SUBSURFACE MATERIALS WHICH ARE SUITABLE FOR USE AS STRUCTURAL FILL. THE EXCAVATION SHALL BE TO WITHIN A TOLERANCE OF 0.1 FEET OF THE PLAN SUBGRADE ELEVATIONS WHILE MAINTAINING PROPER DRAINAGE. THE TOLERANCE WITHIN PAVEMENT AREAS SHALL BE SUCH THAT THE EARTH MATERIALS SHALL "BALANCE" DURING THE

2. PLACEMENT OF SUITABLE MATERIALS SHALL BE WITHIN THOSE AREAS REQUIRING STRUCTURAL FILL IN ORDER TO ACHIEVE THE PLAN SUBGRADE ELEVATIONS TO WITHIN A TOLERANCE OF 0.1 FEET. THE FILL MATERIALS SHALL BE PLACED IN LOOSE LIFTS THAT SHALL NOT EXCEED EIGHT (8) INCHES IN THICKNESS, AND THE WATER CONTENT SHALL BE ADJUSTED IN ORDER TO ACHIEVE REQUIRED COMPACTION.

STRUCTURAL FILL MATERIAL MAY BE PLACED WITHIN THOSE PORTIONS OF THE SITE NOT REQUIRING STRUCTURAL FILL, WITHIN SIX (6) INCHES OF THE PLAN FINISHED GRADE ELEVATION. IN AREAS REQUIRING STRUCTURAL FILL, HOWEVER, THIS MATERIAL SHALL NOT BE PLACED OVER TOPSOIL OR OTHER UNSUITABLE MATERIALS UNLESS SPECIFICALLY

DIRECTED BY A SOILS ENGINEER WITH THE CONCURRENCE OF THE OWNER. 4. COMPACTION OF SUITABLE MATERIALS SHALL BE TO AT LEAST 93% OF THE MODIFIED PROCTOR DRY DENSITY WITHIN PROPOSED PAVEMENT AREAS, SIDEWALK, ETC. COMPACTION SHALL BE AT LEAST 95% OF THE MODIFIED PROCTOR WITHIN PROPOSED BUILDING PAD AREAS.

UNSUITABLE MATERIAL: UNSUITABLE MATERIALS SHALL BE CONSIDERED MATERIAL THAT IS NOT SUITABLE FOR THE SUPPORT OF PAVEMENT AND BUILDING CONSTRUCTION, AND IS ENCOUNTERED BELOW NORMAL TOPSOIL DEPTHS AND THE PROPOSED SUBGRADE ELEVATION. THE DECISION TO REMOVE SAID MATERIAL AND TO WHAT EXTENT SHALL BE MADE BY THE ENGINEER WITH THE CONCURRENCE OF THE OWNER.

1. SPREAD AND COMPACT UNIFORMLY TO THE DEGREE SPECIFIED ALL EXCESS TRENCH SPOIL AFTER COMPLETION OF THE UNDERGROUND IMPROVEMENTS.

.2. SCARIFY, DISC, AERATE, AND COMPACT, TO THE DEGREE SPECIFIED, THE UPPER TWELVE (12) INCHES OF THE SUITABLE SUBGRADE MATERIAL IN ALL AREAS THAT MAY BE SOFT DUE TO EXCESS MOISTURE CONTENT. THIS APPLIES TO CUT AREAS AS WELL AS FILL AREAS.

.3. ADD WATER TO DRY MATERIAL IN ORDER TO ADJUST THE MOISTURE CONTENT FOR THE PURPOSE OF ACHIEVING THE SPECIFIED COMPACTION. 5.4. BACKFILL THE CURB AND GUTTER AFTER ITS CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE BASE COURSE

MATERIAL.

MISCELLANEOUS. THE CONTRACTOR SHALL:

3.1. THE CONTRACTOR SHALL PROVIDE AS A MINIMUM A FULLY LOADED SIX—WHEEL TANDEM AXLE TRUCK FOR PROOF ROLLING THE PAVEMENT SUBGRADE PRIOR TO THE PLACEMENT OF THE CURB AND GUTTER AND THE BASE MATERIAL. THIS SHALL BE WITNESSED BY THE TESTING ENGINEER AND THE OWNER.

6.2. ANY UNSUITABLE AREA ENCOUNTERED AS A RESULT OF PROOF ROLLING SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL OR OTHERWISE CORRECTED AND APPROVED BY THE ENGINEER.

PAVING NOTES

PAVING WORK INCLUDES FINAL SUBGRADE SHAPING, PREPARATION, AND COMPACTION; PLACEMENT OF SUBBASE OR BASE COURSE MATERIALS; BITUMINOUS BINDER AND/OR SURFACE COURSES; FORMING, FINISHING, AND CURING CONCRETE PAVEMENT, CURBS, AND WALKS; AND FINAL CLEAN-UP AND ALL RELATED WORK.

2. COMPACTION REQUIREMENTS [REFERENCE ASTM D-1557 (MODIFIED PROCTOR)] FOR SUBGRADE, SUBBASE, AGGREGATE BASE COURSE, AND BITUMINOUS COURSES SHALL MEET ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) HIGHWAY

.3. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE PROPER BARRICADING WARNING DEVICES, AND THE SAFE MANAGEMENT OF TRAFFIC WITHIN THE AREA OF CONSTRUCTION. ALL SUCH DEVICES AND THEIR INSTALLATION SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION, AND IN ACCORDANCE WITH THE MUNICIPALITY CODE.

ELEVATION. THE CONTRACTOR SHALL CONFIRM THAT THE SUBGRADE HAS BEEN PROPERLY PREPARED AND THAT THE FINISHED TOP SUBGRADE ELEVATION HAS BEEN GRADED WITHIN TOLERANCES ALLOWED IN THESE SPECIFICATIONS, UNLESS THE CONTRACTOR ADVISES THE ENGINEER IN WRITING PRIOR TO FINE GRADING FOR BASE COURSE CONSTRUCTION. IT IS UNDERSTOOD THAT THE CONTRACTOR HAS APPROVED AND ACCEPTS THE RESPONSIBILITY FOR THE 2. PRIOR TO THE PLACEMENT OF THE BASE COURSE, THE SUBGRADE MUST BE PROOF-ROLLED AND INSPECTED FOR

. EARTHWORK FOR PROPOSED PAVEMENT SUBGRADE SHALL BE FINISHED TO WITHIN 0.1 FOOT, PLUS OR MINUS, OF PLAN

UNSUITABLE MATERIALS AND/OR EXCESSIVE MOVEMENT. IF UNSUITABLE SUBGRADE IS ENCOUNTERED, IT SHALL BE CORRECTED. THIS MAY INCLUDE ONE OR MORE OF THE FOLLOWING METHODS: 2.2.1. SCARIFY, DISC, AND AERATE.

2.2.2. REMOVE AND REPLACE WITH STRUCTURAL CLAY FILL.

2.2.3. REMOVE AND REPLACE WITH GRANULAR MATERIAL.

2.2.4. USE OF GEOTEXTILE FABRIC

2.3. PRIOR TO THE CONSTRUCTION OF THE CURB AND GUTTER AND THE PLACEMENT OF THE BASE MATERIAL. THE PAVEMEN

FEET BEYOND THE BACK OF THE CURB, SO AS TO ENSURE THE PROPER THICKNESS OF PAVEMENT COURSES. NO

PERFORMANCE AT FIVE (5) PERCENT MAXIMUM DIAMETRIC DEFLECTION OF THE SPIGOT. MAXIMUM DEFLECTION ALLOWED IN ISOLATED AREAS MAY BE ONE-QUARTER (1/4) INCH TO ONE-HALF (1/2) INCH IF NO DEFLECTION OCCURS OVER THE MAJORITY OF THE AREA.

AREA SHALL BE FINE-GRADED TO WITHIN 0.04 FEET (1/2 INCH) OF FINAL SUBGRADE ELEVATION, TO A POINT TWO (2)

CLAIMS FOR EXCESS QUANTITY OF BASE MATERIALS DUE TO IMPROPER SUBGRADE PREPARATION WILL BE HONORED. 2.4. PRIOR TO PLACEMENT OF THE BASE COURSE, THE SUBGRADE SHALL BE APPROVED BY THE TESTING ENGINEER.

3.1. ALL EXTERIOR CONCRETE SHALL BE PORTLAND CEMENT CONCRETE WITH AIR ENTRAINMENT OF NOT LESS THAN FIVE (5%) OR MORE THAN EIGHT (8%) PERCENT. CONCRETE SHALL BE A MINIMUM OF SIX (6) BAG MIX AND SHALL DEVELOP A MINIMUM OF 4,000 PSI COMPRESSIVE STRENGTH AT TWENTY-EIGHT (28) DAYS. ALL CONCRETE SHALL BE BROOM-FINISHED PERPENDICULAR TO THE DIRECTION OF TRAVEL.

3.2. CONCRETE CURB AND/OR COMBINATION CURB AND GUTTER SHALL BE OF THE TYPE SHOWN ON THE PLANS. THE CONTRACTOR IS CAUTIONED TO REFER TO THE CONSTRUCTION STANDARDS AND THE PAVEMENT CROSS SECTION TO DETERMINE THE GUTTER FLAG THICKNESS AND THE AGGREGATE BASE COURSE THICKNESS BENEATH THE CURB AND GUTTER, PRE-MOLDED FIBER EXPANSION JOINTS, WITH TWO 3/4-INCH BY 18-INCH EPOXY-COATED STEEL DOWEL BARS, 1/2

SHALL BE GREASED AND FITTED WITH METAL EXPANSION TUBES 3.3. CURBS SHALL BE DEPRESSED AND MEET THE SLOPE REQUIREMENTS OF THE ILLINOIS ACCESSIBILITY CODE AT LOCATIONS WHERE PUBLIC WALKS INTERSECT CURB LINES AND OTHER LOCATIONS, AS DIRECTED, FOR THE PURPOSE OF PROVIDING

3.4. THE CURBS SHALL BE BACKFILLED AFTER THEIR CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE BASE COURSE. 3.5. CONCRETE SIDEWALK SHALL BE IN ACCORDANCE WITH THE ABOVE AND THE PLANS. PROVIDE SCORED JOINTS AT

5-FOOT INTERVALS AND 1/2-INCH PRE-MOLDED FIBER EXPANSION JOINTS AT 20-FOOT INTERVALS AND ADJACENT TO

3.6. CONCRETE CURING AND PROTECTION SHALL BE PER IDOT STANDARDS. TWO (2) COATS OF IDOT APPROVED CURING AGENT SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES.

CONCRETE CURBS, DRIVEWAYS, FOUNDATIONS, AND OTHER STRUCTURES

RESPECTIVE CONCRETE ITEM. FLEXIBLE PAVEMENT 4.1. THE PAVEMENT MATERIALS FOR BITUMINOUS STREETS, PARKING LOTS, AND DRIVE AISLES SHALL BE AS DETAILED ON

3.7. THE COST OF AGGREGATE BASE OR SUBBASE UNDER CONCRETE WORK SHALL BE INCLUDED IN THE COST OF THE

COURSE, TYPE B, HMA BINDER COURSE, IL-19, N50; AND HMA SURFACE COURSE, MIX N50, OF THE THICKNESS AND MATERIALS SPECIFIED ON THE PLANS. THICKNESSES SPECIFIED SHALL BE CONSIDERED TO BE THE MINIMUM COMPACTED 4.2. ALL TRAFFIC SHALL BE KEPT OFF THE COMPLETED AGGREGATE BASE UNTIL THE BINDER COURSE IS LAID. THE

TO PLACING THE BINDER COURSE. PRIME COAT MATERIALS SHALL BE IDOT APPROVED. 4.3. PRIOR TO PLACEMENT OF THE SURFACE COURSE, THE BINDER COURSE SHALL BE CLEANED AND TACK-COATED IF 12. ALL PVC PIPES CONNECTED TO REINFORCED CONCRETE PIPE SHALL BE CORED AND BOOTED PER THE MUNICIPALITY DUSTY OR DIRTY. ALL DAMAGED AREAS IN THE BINDER, BASE, OR CURB SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER PRIOR TO LAYING THE SURFACE COURSE. THE CONTRACTOR SHALL PROVIDE WHATEVER EQUIPMENT AND STAFF NECESSARY, INCLUDING THE USE OF POWER BROOMS IF REQUIRED BY THE OWNER, TO PREPARE THE PAVEMENT FOR APPLICATION OF THE SURFACE COURSE. THE TACK COAT SHALL BE UNIFORMLY APPLIED TO THE BINDER COURSE

AGGREGATE BASE SHALL BE UNIFORMLY PRIME COATED AT A RATE OF 0.4 TO 0.5 GALLONS PER SQUARE YARD PRIOR

AT A RATE OF 0.05 TO 0.10 GALLONS PER SQUARE YARD. TACK COAT SHALL BE AS PER IDOT STANDARDS. 4.4. SEAMS IN BAM, BINDER, AND SURFACE COURSE SHALL BE STAGGERED A MINIMUM OF 6 INCHES.

5.1. THE CONTRACTOR SHALL FOLLOW THE QUALITY CONTROL TESTING PROGRAM FOR CONCRETE AND PAVEMENT MATERIALS ESTABLISHED BY THE MATERIALS/TESTING ENGINEER. 5.2. PRIOR TO PLACEMENT OF THE BITUMINOUS CONCRETE SURFACE COURSE, THE CONTRACTOR, WHEN REQUIRED BY THI MUNICIPALITY, SHALL OBTAIN SPECIMENS OF THE BINDER COURSE WITH A CORE DRILL WHERE DIRECTED, FOR THE

PURPOSE OF THICKNESS VERIFICATION. 5.3. WHEN REQUIRED BY THE MUNICIPALITY, THE CONTRACTOR SHALL OBTAIN SPECIMENS OF THE FULL DEPTH BITUMINOUS CONCRETE PAVEMENT STRUCTURE WITH A CORE DRILL WHERE DIRECTED IN ORDER TO CONFIRM THE PLAN THICKNESS.

DEFICIENCIES IN THICKNESS SHALL BE ADJUSTED FOR BY THE METHOD REQUIRED BY IDOT STANDARDS. 5.4. FINAL ACCEPTANCE OF THE TOTAL PAVEMENT INSTALLATION SHALL BE SUBJECT TO THE TESTING AND CHECKING REQUIREMENTS CITED ABOVE.

ALL MATERIAL AND CONSTRUCTION SHALL CONFORM TO THE MUNICIPALITY CODE. WHEN CONFLICTS ARISE BETWEEN MUNICIPAL CODE, GENERAL NOTES AND SPECIFICATIONS, THE MORE STRINGENT SHALL TAKE

SIGNAGE AND PAVEMENT MARKING NOTES ALL SIGNING AND PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL

DEVICES (MUTCD) AND THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) STANDARDS. SIGNS: SIGNS SHALL BE CONSTRUCTED OF 0.080-INCH THICK FLAT ALUMINUM PANELS WITH REFLECTORIZED LEGEND ON

THE FACE. LEGEND SHALL BE IN ACCORDANCE WITH THE MUTCD. 2.1. SIGNS WITHIN THE CITY OF NAPERVILLE RIGHT-OF-WAY: 0.080-INCH THICK FLAT ALUMINUM. 3M 4040 DG DIAMOND GRATE HEETING. 1170 OR 1160 PROTECTIVE OVERLAY. POSTS: SIGN POSTS SHALL BE A HEAVY-DUTY STEEL "U" SHAPED CHANNEL WEIGHING 3.0 POUNDS/FOOT, SUCH AS A

TYPE B METAL POST, AS PER THE IDOT STANDARDS (OR 2-INCH PERFORATED STEEL TUBE). 3.1. POSTS WITHIN THE CITY OF NAPERVILLE RIGHT-OF-WAY: SIGN POSTS SHALL BE A HEAVY DUTY STEEL WITH 1 🚏 POSTS AND 2" BASE RECEIVER. 4. SIGNS AND POSTS SHALL BE INSTALLED IN ACCORDANCE WITH IDOT STANDARDS.

PAVEMENT MARKINGS: ALL PAVEMENT MARKINGS IN THE PUBLIC RIGHT-OF-WAY, SUCH AS STOP LINES, CENTERLINES, CROSSWALKS, AND DIRECTIONAL ARROWS, SHALL BE REFLECTORIZED THERMOPLASTIC ON ASPHALT AND EPOXY ON 5. PAVEMENT MARKINGS ON BIKE PATHS, PARKING LOT STALLS, AND SIMILAR "LOW-WEAR" APPLICATIONS, SHALL BE PAINT IN

COLOR, WIDTH, STYLE, AND SIZE OF ALL MARKINGS SHALL BE IN ACCORDANCE WITH THE MUTCD AND LOCAL CODE. STANDARD PARKING SPACES SHALL BE PAINTED WHITE OR YELLOW PER LOCAL CODE. THERMOPLASTIC MARKINGS SHALL BE INSTALLED WHEN THE PAVEMENT TEMPERATURE IS 55 DEGREES FAHRENHEIT AND

RISING. PAINT MARKINGS MAY BE INSTALLED WHEN THE AIR TEMPERATURE IS 50 DEGREES FAHRENHEIT AND RISING.

SANITARY SEWER NOTES

SANITARY SEWER PIPE: ALL SANITARY SEWER PIPE MATERIAL, SIZE AND TYPE SHALL BE INSTALLED AS INDICATED ON THE UTILITY PLAN. UNLESS OTHERWISE NOTED ON THE PLANS, ALL SANITARY SEWER PIPE SHALL BE POLYVINYL CHLORIDE PLASTIC PIPE (PVC SDR-26), CONFORMING TO ASTM D3034 AND D2241 WITH ELASTOMERIC GASKET JOINTS CONFORMING TO ASTM D3139 AND D3212. ANY CHANGES TO THE PIPE MATERIAL, SIZE AND TYPE MUST BE APPROVED BY THE OWNER. ENGINEER AND MUNICIPALITY PRIOR TO ORDERING MATERIALS OR INSTALLING THE PIPE. ALL SANITARY SEWER PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING:

POLYVINYL CHLORIDE PLASTIC PIPE SDR-26 (ASTM D3034 AND D2241) DUCTILE IRON PIPE, CLASS 52 (ANSI 21.51 AND AWWA C151)

MEASUREMENT) LAYERS. JETTING WITH WATER IS NOT PERMITTED.

BAND-SEAL OR SIMILAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED WHEN CONNECTING SEWER PIPES OF DISSIMILAR MATERIALS. ALL SANITARY SEWER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS). REQUIRES STONE BEDDING WITH STONE 14" TO 1" IN SIZE WITH MINIMUM BEDDING THICKNESS FOUAL TO 14 THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NO LESS THAN FOUR (4) INCHES NOR MORE THAN EIGHT (8) INCHES. AS A MINIMUM, THE MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" OF THE STATE OF ILLINOIS OR ASTM C-33. THE GRADATION SHALL CONFORM TO GRADATION CA-11 OF THE ILLINOIS STANDARD SPECIFICATIONS AND SHALL BE EXTENDED AT LEAST 12" ABOVE THE TOP OF THE PIPE WHEN

ALL UNSUITABLE MATERIALS SHALL BE REMOVED BELOW THE PROPOSED SANITARY SEWER AND REPLACED WITH COMPACTED CRUSHED GRAVEL OR STONE PER IDOT STANDARDS AND AS DIRECTED BY THE GEOTECHNICAL ENGINEER ALL TRENCHES BENEATH PROPOSED OR EXISTING UTILITIES. PAVEMENTS, ROADWAYS, SIDEWALKS, AND FOR A DISTANCE OF TWO (2) FEET ON EITHER SIDE OF SAME, AND/OR WHERE SHOWN ON THE PLANS, SHALL BE BACKFILLED WITH SELECT

5. ALL SANITARY SEWERS ARE TO BE CONSTRUCTED USING A LASER INSTRUMENT TO MAINTAIN LINE AND GRADE. . CONNECTIONS TO EXISTING SANITARY SEWER SYSTEM SHALL NOT BE DONE UNTIL AUTHORIZED BY THE MUNICIPALITY

WATERMAINS SHALL BE SEPARATED FROM SANITARY SEWERS AND STORM SEWERS IN ACCORDANCE WITH ILLINOI

GRANULAR BACKFILL PER IDOT STANDARDS AND THOROUGHLY MECHANICALLY COMPACTED IN 6-INCH THICK (LOOSE

ENVIRONMENTAL PROTECTION AGENCY (IEPA) REQUIREMENTS, AS SPECIFIED IN THE STANDARDS FOR WATER AND SEWER . NO WATER LINE SHALL BE PLACED IN THE SAME TRENCH AS A SEWER LINE, EXCEPT UNDER SPECIAL CIRCUMSTANCES AND THEN ONLY UNDER THE FOLLOWING RULES:

A. IF NECESSARY PERMISSION SHALL BE OBTAINED FROM THE MUNICIPALITY IN WRITING PRIOR TO BEGINNING

B. THE BOTTOM OF A WATER LINE SHALL BE INSTALLED ON A SHELF A MINIMUM OF 18 INCHES ABOVE THE TOP OF THE SEWER AND 18 INCHES HORIZONTALLY AWAY FROM THE EDGE OF THE SEWER. ALL SANITARY MANHOLES (AND STORM MANHOLES IN COMBINED SEWER AREAS) SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE. A WATERTIGHT BOOT, CONFORMING TO ASTM C-923, SHALL BE USED AT THE PIPE-STRUCTURE CONNECTION.

10. ALL PIPE CONNECTION OPENINGS SHALL BE PRECAST WITH RESILIENT RUBBER WATER-TIGHT SLEEVES. THE BOTTOM OF THE MANHOLE SHALL HAVE A CONCRETE BENCH POURED TO FACILITATE SMOOTH FLOWS. . Frames and Lids: see details for all sanitary sewer manhole frames and Lids, the Lids shall have recessed (CONCEALED) PICK HOLE AND BE SELF-SEALING WITH AN "O" RING GASKET. THE LIDS SHALL HAVE THE WORD "SANITARY

2. A MAXIMUM OF EIGHT (8) INCHES OF CONCRETE-ADJUSTING RINGS SHALL BE USED TO ADJUST FRAME ELEVATIONS. RINGS SHALL BE SEALED TOGETHER WITH BUTYL ROPE.

EMBOSSED ON THE SURFACE. THE JOINTS BETWEEN THE FRAME AND CONCRETE SECTION SHALL BE SEALED WITH A BUTYL

ELIMINATED, BEFORE FINAL INSPECTION AND ACCEPTANCE 4. TESTING: DEFLECTION, AIR, AND LEAKAGE TESTING WILL BE REQUIRED. THE PROCEDURE AND ALLOWABLE TESTING LIMITS SHALL BE IN ACCORDANCE WITH THE STANDARDS FOR SEWER AND WATER MAIN CONSTRUCTION IN ILLINOIS. 5. TESTING THE ALIGNMENT/STRAIGHTNESS SHALL BE IN ACCORDANCE WITH THE MUNICIPALITY CODE.

3. CLEANING: ALL MANHOLES AND PIPES SHALL BE THOROUGHLY CLEANED OF DIRT AND DEBRIS, AND ALL VISIBLE LEAKAGE

AND A WRITTEN REPORT SHALL BE SUBMITTED AND REVIEWED BY THE MUNICIPALITY BEFORE FINAL ACCEPTANCE. THE REPORT SHALL INCLUDE STUB LOCATION AS WELL AS A DESCRIPTION OF ALL DEFECTS, WATER LEVEL, LEAKS, ANI LENGTHS. IDENTIFY MANHOLE TO MANHOLE BOTH VERBALLY AND ON-SCREEN USING MANHOLE NUMBERS FROM APPROVED PLANS. ORDER OF WRITTEN REPORT SHALL BE THE SAME AS THE VIDEOTAPES. . TEST RESULTS: IF THE SANITARY SEWER INSTALLATION FAILS TO MEET THE TEST REQUIREMENTS SPECIFIED, TH CONTRACTOR SHALL DETERMINE THE CAUSE OR CAUSES OF THE DEFECT AND REPAIR, OR REPLACE ALL MATERIALS AND

WORKMANSHIP, AS MAY BE NECESSARY TO COMPLY WITH THE TEST REQUIREMENTS.

18. CERTIFICATION: CONTRACTOR SHALL SUBMIT CERTIFIED COPIES OF ALL REPORTS OF TESTS CONDUCTED BY AN INDEPENDENT LABORATORY BEFORE INSTALLATION OF PVC PLASTIC PIPE. TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH STANDARD METHOD OF TEST FOR "EXTERNAL LOADING PROPERTIES OF PLASTIC PIPE BY PARALLEL PLATE LOADING." ASTM STANDARDS D-2241, AS APPROPRIATE FOR THE PIPE, TO BE USED. TESTS SHALL ALSO BE CONDUCTED TO DEMONSTRATE JOINT

19. CONTRACTOR SHALL VERIFY THAT THE TESTING METHODS DESIGNATED HEREIN ARE ACCEPTABLE TO THE LOCAL AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT.

STORM SEWER NOTES

STORM SEWER PIPE: ALL STORM SEWER PIPE MATERIAL, SIZE AND TYPE SHALL BE INSTALLED AS INDICATED ON THE UTILITY PLAN. UNLESS OTHERWISE NOTED ON THE PLANS, ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE PIPE, IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS FOR DETERMINING PIPE CLASS AND CONFORMING TO ASTM C76. ANY CHANGES TO THE PIPE MATERIAL, SIZE AND TYPE MUST BE APPROVED BY THE OWNER, ENGINEER AND MUNICIPALITY PRIOR TO ORDERING MATERIALS OR INSTALLING THE PIPE. ALL STORM SEWER PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING:

PIPE MATERIAL REINFORCED CONCRETE PIPE (ASTM C76); SEE IDOT SPECS FOR PIPE CLASS POLYVINYL CHLORIDE PLASTIC PIPE SDR-26 (ASTM D3034 AND D2241) HIGH DENSITY POLYETHYLENE PIPE DUCTILE IRON PIPE, CLASS 52 (ANSI 21.51 AND AWWA C151)

BAND-SEAL OR SIMILAR COUPLING SHALL BE USED WHEN JOINING SEWER PIPES OF DISSIMILAR MATERIALS. ALL FOOTING DRAIN DISCHARGE PIPES AND DOWN SPOUTS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.

COVER: THE CONTRACTOR SHALL MAINTAIN AT LEAST TWO (2) FEET OF COVER OVER THE TOP OF SHALLOW PIPES AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL MOUND OVER ANY PIPES THAT HAVE LESS THAN TWO (2) FEET OF COVER DURING CONSTRUCTION UNTIL THE AREA IS FINAL GRADED OR PAVED.

CONSTRUCTION: ALL STORM SEWERS ARE TO BE CONSTRUCTED USING A LASER INSTRUMENT TO MAINTAIN LINE AND

STRUCTURES: MANHOLE, CATCH BASIN, AND INLET BOTTOMS SHALL BE PRECAST CONCRETE SECTIONAL UNITS OR MONOLITHIC CONCRETE, MANHOLES AND CATCH BASINS SHALL BE A MINIMUM OF FOUR (4) FEET IN DIAMETER UNLESS OTHERWISE SPECIFIED ON THE PLANS. STRUCTURE JOINTS SHALL BE SEALED WITH "O" RING OR BUTYL ROPE. A MAXIMUM OF TWELVE (12) INCHES OF ADJUSTING RINGS SHALL BE USED. PER NAPERVILLE STANDARD SPECIFICATION 203.2.5, ALL RINGS SHALL BE HIGH DENSITY POLYETHYLENE PLASTIC (HDPE), RECYCLED RUBBER, HIGH DENSITY EXPANDING POLYSTYRENE, EXPANDED POLYPROPYLENE (EPP), OR OTHER MATERIAL AS APPROVED BY THE CITY ENGINEER. PRECAST CONCRETE RINGS. BRICKS, ROCKS, SHIMS, OR CONCRETE BLOCKS WILL NOT BE ALLOWED, TAPERED ADJUSTING RINGS SHALL BE REQUIRED WHEN THE FRAME WILL NEED TO MATCH THE SLOPE OF THE ROADWAY.

A CONCRETE BENCH TO DIRECT FLOWS SHALL BE CONSTRUCTED IN THE BOTTOM OF ALL INLETS AND MANHOLES

THE PLANS. UNLESS OTHERWISE SHOWN ON THE PLANS, THE FLEXIBLE PAVEMENTS SHALL CONSIST OF AGGREGATE BASE 8. THE FRAME, GATE, AND/OR CLOSED LID SHALL BE CAST IRON OF THE STYLE SHOWN ON THE PLANS. CLEANING: THE STORM SEWER SYSTEM SHALL BE THOROUGHLY CLEANED PRIOR TO FINAL INSPECTION AND TESTING.

). THE STORM SEWER SHALL BE TELEVISED IF REQUIRED BY THE MUNICIPALITY.

MANHOLES, CATCH BASINS, INLETS, FRAMES, GRATES, AND OTHER STRUCTURES SHALL BE CONSTRUCTED OF THE TYPE, STYLE, AND SIZE AS SET FORTH WITH THE ORDINANCES AND STANDARDS OF THE MUNICIPALITY.

WATERMAIN NOTES

REQUIREMENTS.

WATERMAIN PIPE: ALL WATERMAIN PIPE MATERIAL, SIZE AND TYPE SHALL BE INSTALLED AS INDICATED ON THE UTILITY PLAN, UNLESS OTHERWISE NOTED ON THE PLANS, ALL WATERMAIN PIPE SHALL BE CONSTRUCTED OF BITUMINOUS-COATED CEMENT-LINED DUCTILE IRON PIPE, CLASS 52, CONFORMING TO ANSI A21.51 (AWWA C151). CEMENT MORTAR LINING SHALL CONFORM TO ANSI A21.4 (AWWA C104). THE JOINTS SHALL BE PUSH-ON COMPRESSION GASKET JOINTS CONFORMING TO ANSI A21.11 (AWWA C111). ANY CHANGES TO THE PIPE MATERIAL, SIZE AND TYPE MUST BE APPROVED BY THE OWNER, ENGINEER AND MUNICIPALITY PRIOR TO ORDERING MATERIALS OR INSTALLING THE PIPE. ALL WATERMAIN PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING:

> DUCTILE IRON PIPE, CLASS 52 (ANSI 21.51 AND AWWA C151) TYPE "K" COPPER PIPE

FITTINGS: ALL FITTINGS SHALL BE OF DUCTILE IRON WITH CEMENT MORTAR LINING AND MECHANICAL JOINTS CONFORMING

VALVES: GATE VALVES SHALL BE USED ON ALL WATERMAINS. ALL VALVES SHALL TURN COUNTER-CLOCKWISE TO OPEN VALVES SHALL BE IRON BODY RESILIENT WEDGE GATE VALVES WITH BRONZE-MOUNTED SEATS AND NON-RISING STEMS CONFORMING TO AWWA C-509 OR C-515. THE VALVES SHALL HAVE MECHANICAL JOINTS. THE MECHANICAL JOINTS AND ALL FASTENERS ON THE VALVE BODY SHALL HAVE STAINLESS STEEL NUTS AND BOLTS. VALVE VAULTS: VALVE VAULTS SHALL BE PRECAST CONCRETE STRUCTURES FIVE (5) FEET IN DIAMETER, AS NOTED ON

FIRE HYDRANTS: SEE PLANS FOR APPROVED FIRE HYDRANT DETAIL. FIRE HYDRANTS SHALL BE INSTALLED WITH AN AUXILIARY VALVE AND CAST IRON VALVE BOX. FIRE HYDRANTS SHALL HAVE AUXILIARY VALVES WITH A HYDRANT BARREL TO VALVE BOX RESTRAINING DEVICE. THE PUMPER CONNECTION SHALL FACE THE ROADWAY. PROVIDE AND INSTALL FOUR MEGALUG JOINT RESTRAINTS AT EACH JOINT FROM THE MAINLINE TEE TO THE AUXILIARY

THE PLANS. THE FRAME AND LID SHALL BE ACCORDING TO THE DETAIL ON THE PLANS, WITH "WATER" EMBOSSED ON THE

THE BREAK FLANGE AND ALL BELOW-GRADE FITTING SHALL HAVE STAINLESS STEEL NUTS AND BOLTS. CORPORATION STOPS: CORPORATION STOPS SHALL BE BRONZE BODY KEY STOPS CONFORMING TO AWWA C-800 AND SHALL INCLUDE "J" BEND, TAILPIECE, AND COMPRESSION FITTINGS. SIZE AND LOCATION AS SHOWN ON THE PLANS.

VALVE AND BETWEEN THE AUXILIARY VALVE AND THE HYDRANT BARREL.

MAXIMUM DEFLECTION AT PIPE JOINTS SHALL BE IN ACCORDANCE WITH PIPE MANUFACTURER'S CURRENT

BEDDING: ALL WATERMAINS SHALL BE BEDDED ON FIRM GROUND, WITH BELLHOLES EXCAVATED SO THAT THE PIPE HAS AI EVEN BEDDING FOR ITS ENTIRE LENGTH. 13. GRANULAR BEDDING MATERIAL OR GRANULAR BACKFILL MATERIAL SHALL BE CAREFULLY PLACED TO TWELVE (12) INCHES OVER THE TOP OF THE PIPE BEFORE FINAL BACKFILLING AND COMPACTION.

4. A MINIMUM DEPTH OF COVER OF 5-FEET, 6-INCHES SHALL BE MAINTAINED OVER THE WATER LINES. THE MAXIMUM COVER SHALL BE EIGHT (8) FEET, EXCEPT AT SPECIAL CROSSINGS AND ONLY AS DESIGNATED ON THE PLANS. "MEGA-LUG" RETAINER GLANDS AND THRUST BLOCKING SHALL BE INSTALLED ON WATERMAINS AT ALL BENDS, FITTINGS, TEES, ELBOWS, ETC. "MEGA-LUG" RESTRAINED JOINTS ARE REQUIRED ON ALL VALVES AND ALL FITTINGS. THE COST FOR

16. ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA) AND MUNICIPALITY WATERMAIN PROTECTION: WATERMAINS SHALL BE LAID AT LEAST TEN (10) FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED DRAIN,

STORM SEWER, SANITARY SEWER, OR SEWER SERVICES CONNECTION. WATERMAINS MAY BE LAID CLOSER THAN TEN (10) FEET TO A SEWER LINE WHEN: LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF TEN (10) FEET;

THIS WORK SHALL BE INCIDENTAL TO THE UNIT PRICE FOR THE PIPE INSTALLED.

THE WATERMAIN INVERT IS AT LEAST EIGHTEEN (18) INCHES ABOVE THE CROWN OF THE SEWER; THE WATERMAIN IS EITHER IN A SEPARATE TRENCH OR IN THE SAME TRENCH ON AN UNDISTURBED EARTH SHELF LOCATED TO ONE SIDE OF THE SEWER. WHEN IT IS IMPOSSIBLE TO MEET (1) OR (2) ABOVE, BOTH THE WATERMAIN AND DRAIN OR SEWER SHALL BE

OR PVC PIPE EQUIVALENT TO WATERMAIN STANDARDS OF CONSTRUCTION AND IN CONFORMANCE WITH THE ILLINOIS STANDARDS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS. THE DRAIN OR SEWER SHALL BE PRESSURE-TESTED TO THE MAXIMUM EXPECTED SURCHARGE HEAD BEFORE BACKFILLING.

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

CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, PRESTRESSED CONCRETE PIPE,

16.2.2. BOTH THE STORM SEWER AND SANITARY SEWER SHALL BE CONSTRUCTED WITH PIPE EQUIVALENT TO WATERMAIN STANDARDS OF CONSTRUCTION OR THE STORM SEWER SHALL BE CONSTRUCTED USING "O" RING GASKET JOINTS, PER ASTM C-443, OR THE WATERMAIN MAY BE IN ENCASED IN A WATERTIGHT CASING PIPE WHEN:

16.2.2.1. IT IS IMPOSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION, AS DESCRIBED ABOVE; OR THE WATERMAIN PASSES UNDER A SEWER OR DRAIN. A VERTICAL SEPARATION OF EIGHTEEN (18) INCHES BETWEEN THE INVERT OF THE SEWER OR DRAIN AND

THE CROWN OF THE WATERMAIN SHALL BE MAINTAINED WHERE A WATERMAIN CROSSES UNDER A SEWER. SUPPORT THE SEWER OR DRAIN LINES TO PREVENT SETTLING AND BREAKING OF THE WATERMAIN. 16.2.4. CONSTRUCTION SHALL EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE NORMAL DISTANCE FROM THE WATERMAIN TO THE SEWER OR DRAIN LINE IS AT LEAST TEN (10) FEET.

ALL WATERMAINS SHALL BE PRESSURE-TESTED FOR A MIN. OF 4 HOURS AT 150 PSI, FLUSHED, AND DISINFECTED IN

ACCORDANCE WITH AWWA AND MUNICIPALITY SPECIFICATIONS. EACH VALVE SECTION SHALL BE PRESSURE-TESTED FOR A MINIMUM OF ONE (1) HOUR. ALLOWABLE LEAKAGE IS TO BE ONLY THAT WHICH IS PREDETERMINED BY THE MUNICIPALITY. AT NO TIME IS THERE TO BE ANY VISIBLE LEAKAGE FROM THE MAIN. ADA GENERAL NOTES

THE STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS OF THE AUTHORITY HAVING JURISDICTION. ALL ACCESSIBLE ROUTES, GENERAL SITE AND BUILDING ELEMENTS, RAMPS, CURB RAMPS, STRIPING, AND PAVEMENT MARKING SHALL CONFORM TO ADA STANDARDS FOR ACCESSIBLE DESIGN, LATEST EDITION. ANY COMPONENTS OF THE PROJECT SERVING MULTI-FAMILY DWELLINGS IN BUILDINGS THAT HAVE (4) OR MORE UNITS PER

DWELLING SHALL ALSO CONFORM TO THE FAIR HOUSING ACT (FHA), AND COMPLY WITH THE FAIR HOUSING ACT DESIGN

PERCENT. ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2.0 PERCENT SLOPE IN ANY DIRECTION.

CURB RAMPS ALONG PUBLIC STREETS AND IN THE PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED IN CONFORMANCE WITH

MANUAL BY THE US DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT. BEFORE PLACING PAVEMENT. CONTRACTOR SHALL VERIFY THAT SUITABLE ACCESSIBLE PEDESTRIAN ROUTES (PER ADA AND FHA) EXIST TO AND FROM EVERY DOOR AND ALONG SIDEWALKS, ACCESSIBLE PARKING SPACES, ACCESS AISLES, AND ACCESSIBLE ROUTES. IN NO CASE SHALL AN ACCESSIBLE RAMP SLOPE EXCEED 1 VERTICAL TO 12 HORIZONTAL. IN NO CASE SHALL SIDEWALK CROSS SLOPES EXCEED 2.0 PERCENT. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPES EXCEED 5.0

CONTRACTOR SHALL TAKE FIELD SLOPE MEASUREMENTS ON FINISHED SUBGRADE AND FORM BOARDS PRIOR TO PLACING PAVEMENT TO VERIFY THAT ADA SLOPE REQUIREMENTS ARE PROVIDED. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO 3. TELEVISING: IF REQUIRED BY THE MUNICIPALITY, ALL SANITARY SEWERS SHALL BE TELEVISED, AND A COPY OF THE TAPE PAVING IF ANY EXCESSIVE SLOPES ARE ENCOUNTERED. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR ADA

QUANTITIES SUMMARY

CONTRACTOR TO PROVIDE A COMPLETE PROJECT PER THE CONSTRUCTION DOCUMENTS. QUANTITIES PROVIDED AS PART OF THIS SUMMARY ARE FOR REFERENCE PURPOSES ONLY AND ARE NOT A BASIS FOR CHANGE ORDER IF ADDITIONAL QUANTITY IS INSTALLED AS PART OF THE ORIGINAL BID DOCUMENTS.

CITY OF NAPERVILLE DEPARTMENT OF PUBLIC UTILITIES -**ELECTRIC GENERAL NOTES**

THE DEVELOPER SHALL SUPPLY THE DPU-E ENGINEER WITH CATALOG CUTS FOR ALL CT/METER EQUIPMENT (INCLUDING BUT NOT LIMITED TO METER SOCKETS, PT CABINET, CT CABINET, DISCONNECT CABINET) AND TRANSFORMER PAD/VAULT. THE CATALOG CUTS SHALL BE APPROVED BY DPU-E PRIOR TO PURCHASING.

THE CT/METER CABINET SHALL BE TOP FED. CT/METER EQUIPMENT ARE LONG LEAD TIME ITEMS AND DPU-E SHALL NOT BE HELD RESPONSIBLE FOR DELAYS RESULTING FROM NON-COMPLIANT CT/METER EQUIPMENT.

PLEASE PROVIDE NAME AND CONTACT INFORMATION FOR ELECTRICAL CONTRACTOR FOR THIS PROJECT. L PROVIDE, INSTALL, AND MAINTAIN THE TRANSFORMERS, ALL PRIMARY (15KV) CABLE AND CONDUIT, AND THE METERS. INSTRUMENT TRANSFORMERS. DPUE WILL ALSO MAKE THE FINAL CONNECTIONS IN THE TRANSFORMERS ONCE THE INSPECTION IS COMPLETE AND THE BUILDING IS READY TO BE ENERGIZED. THE DEVELOPER IS RESPONSIBLE FOR PROVIDING, INSTALLING, AND MAINTAINING THE TRANSFORMER PAD/VAULT, ALL SERVICE LATERA (480V) CABLE AND CONDUIT, THE SERVICE ENTRANCE EQUIPMENT INCLUDING THE CT/METER CABINET AND ALL BANKED METER SOCKETS.

THE DEVELOPER SHALL COORDINATE SITE CONSTRUCTION WITH DPU-E TO ALLOW ELECTRIC FACILITIES TO BE INSTALLED PRIOR PAVING AND CURBING. DPU-E REQUIRES 30 WORKING DAYS ADVANCE WRITTEN NOTICE PRIOR TO PAVEMENT INSTALLATION TO ALLOW FOR THE INSTALLATION OF ELECTRIC FACILITIES. GRADE ELEVATION MUST BE WITHIN 4" OF FINAL GRADING BEFORE ELECTRIC FACILITIES CAN BE ELECTRIC FACILITIES SHALL BE INSTALLED PURSUANT TO SECTION 8-1C-3 OF THE CITY OF NAPERVILLE MUNICIPAL CODE, WHICH REQUIRES A CONSTRUCTION FEE PAYMENT FOR INSTALLATION OF ELECTRIC FACILITIES.

AT ALL TIMES, THE CUSTOMER SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING A SUITABLE APPROACH TO THE METER LOCATION, WITH NO OBSTRUCTIONS WITHIN FOUR (4') FEET OF THE FRONT AND TWO (2') FEET OF THE SIDES OF THE METER. PER NAPERVILLE SERVICE RULES AND POLICIES 22.2.F. CLEARANCE TO TRANSFORMER PAD SHALL BE 5 FROM ALL SIDES, 10 FROM FRONT, AND THE AREA ABOVE MUST BE COMPLETELY CLEAR OF OBSTRUCTION. NO TREES, SHRUBS, OR OTHER OBSTACLES WILL BE ALLOWED WITHIN THIS AREA. TRANSFORMER PAD SHALL MAINTAIN

MINIMUM CLEARANCE OF 20 FROM EGRESS POINTS. PER DPUE SPECIFICATIONS C10-2130 AND C30-0016. DPU-E REQUIRES A MINIMUM 5' OF SEPARATION BETWEEN ITS ELECTRIC FACILITIES AND ANY FIRE HYDRANTS STORM DRAINS, STORM SEWERS, WATER MAINS, GAS MAINS, ETC. THAT RUN PARALLEL TO ITS FACILITIES.

TO HAVE AN EXISTING SERVICE DISCONNECTED CALL THE CITY DISPATCH OFFICE AT 630-420-6187. PLEASE ALLOW AT LEAST 24 HOURS NOTICE, METERS AND METER SEALS ARE TO BE REMOVED ONLY BY DPU-E PERSONNEL. THE LOCATION AND TYPE OF NEW OR REPLACEMENT METER RELATED EQUIPMENT MUST BE PRE-APPROVED IN WRITING BY DPU-E. AN ELECTRIC SERVICE MUST BE INSPECTED BY THE DEVELOPMENT SERVICES TEAM ELECTRICAL INSPECTOR PRIOR TO CONNECTION.

L METER SOCKETS WITH THE COMPLETE ADDRESS IN 1" LETTERS USING PERMANENT STICKERS. THE ELECTRICAL SERVICE EQUIPMENT WILL NOT PASS INSPECTION WITHOUT APPROPRIATE ADDRESS LABELING. APPROVAL OF METERING EQUIPMENT BY DPU-E DOES NOT REMOVE YOUR RESPONSIBILITY TO COMPLY WITH THE LATEST VERSION OF THE

NATIONAL ELECTRICAL CODE AS ADOPTED BY THE CITY OF NAPERVILLE. DETERMINATION OF COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE WILL BE MADE BY THE TRANSPORTATION, ENGINEERING AND DEVELOPMENT DEPARTMENT. CUSTOMER'S GROUNDING CONDUCTOR SHALL NOT BE CONNECTED TO DPU-E DISTRIBUTION EQUIPMENT

DUE TO SUPPLY CHAIN ISSUES DPU-E IS EXPERIENCING LONG LEAD TIMES (+900 DAYS) ON TRANSFORMERS. PLEASE TAKE THIS INTO

THE TRANSFORMER MUST BE SHOWN ON THE SITE PLAN AND SHOULD BE LOCATED BETWEEN 8' AND 50' FROM COMMERCIAL BUILDINGS METERS, INSTRUMENTAL TRANSFORMERS, AND MAIN DISCONNECT SHALL BE LOCATED WITHIN 50' OF THE TRANSFORMER AND SHALL BE INSTALLED ON THE EXTERIOR OF THE BUILDING. IF THE TRANSFORMER WILL BE LOCATED AT A DISTANCE GREATER THAN 50', THEN THE METERING CABINET AND MAIN DISCONNECT MUST BE FREE STANDING AND LOCATED BETWEEN 10' AND 15' OF THE TRANSFORMER. THE INSTRUMENT TRANSFORMERS AND MAIN DISCONNECT MAY BE INSTALLED INSIDE THE BUILDING IF THE SERVICE ENTRANCE CAPACITY IS 1200 AMPS OR GREATER. METERS SHALL BE INSTALLED ON THE BUILDING EXTERIOR. THE DEVELOPER IS RESPONSIBLE FOR THE CONSTRUCTION AND INSTALLATION OF A TRANSFORMER PAD AND VAULT. THE DPU-E ENGINEER

ACCESS IN CASE OF A NEED FOR SERVICE OR IN AN EMERGENCY. DPU-E SHALL MAKE THE FINAL CONNECTIONS OF THE CUSTOMER'S SERVICE TO THE TRANSFORMER TERMINALS. A MINIMUM OF EIGHT FEET OF ADDITIONAL CONDUCTOR LENGTH MUST BE LEFT ON THE CUSTOMER'S SERVICE CABLES. THE TRANSFORMER IS LOCATED NEAR VEHICULAR TRAFFIC. DEVELOPER IS RESPONSIBLE FOR PROVIDING AND INSTALLING 8"BOLLARDS PER

MUST BE INFORMED PRIOR TO THE INSTALLATION OF THE AND VAULT. A MAIN DISCONNECT OR CIRCUIT BREAKER IS REQUIRED FOR DPU-E

CITY OF NAPERVILLE DEPARTMENT OF PUBLIC UTILITIES -

WATER/WASTEWATER GENERAL NOTES

ALLOWED. ALL STRUCTURE FRAMES SHALL BE FLUSH WITH FINAL GRADE.

ENCASEMENT TO BE INSTALLED IN ACCORDANCE WITH ANSI/AWWA C105/A21.5-05.

CONSIDERATION WHEN PLANNING CONSTRUCTION.

A.NEW WATER MAIN VALVES, INCLUDING PRESSURE TAP VALVES, ADJACENT TO AN EXISTING WATER MAIN, AND EXISTING WATER MAIN. VALVES SHALL ONLY BE OPERATED BY THE CITY OF NAPERVILLE, DEPARTMENT OF PUBLIC UTILITIES CEE/CM DIVISION PERSONNEL WITH 48-HOUR NOTICE (MONDAY-FRIDAY). CONTACT NAPERVILLE TED BUSINESS GROUP AT 630-420-6082 FOR SCHEDULING. 3. ANY EXISTING UTILITY STRUCTURES REQUIRING ADJUSTMENT OR RECONSTRUCTION SHALL BE COMPLETED BY THE CONTRACTOR TO THE SATISFACTION OF THE UTILITY OWNER. ADJUSTMENTS AND/OR RECONSTRUCTIONS NOT CALLED FOR ON THE PLANS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. NO MORE THAN A TOTAL OF 12 INCHES OF ADJUSTING RINGS AND/OR 2 ADJUSTING RINGS SHALL BE

SANITARY SERVICES, WATER MAINS, AND WATER SERVICES. TREES SHALL BE INSTALLED A MINIMUM OF TEN (10) FEET HORIZONTALLY FROM UTILITY STRUCTURES AND APPURTENANCES, INCLUDING, BUT NOT LIMITED TO, MANHOLES, VALVE VAULTS, VALVE BOXES AND FIRE HYDRANTS. NO TREES, SHRUBS OR OBSTACLES WILL BE ALLOWED 10 IN FRONT OF, 5 ON THE SIDES, AND 7 TO THE REAR OF THE **ELECTRICAL TRANSFORMER** D. ALL RETAINER GLANDS WHEN REQUIRED TO RESTRAIN VALVES, FITTINGS, HYDRANTS, AND PIPE JOINTS SHALL BE MECHANICAL JOINT WEDGE ACTION TYPE MEGALUG 1100 SERIES AS MANUFACTURED BY EBBA IRON, INC. OR UNI-FLANGE BLOCKBUSTER 1400 SERIES AS

. TREES SHALL BE INSTALLED A MINIMUM OF FIVE (5) FEET HORIZONTALLY FROM UNDERGROUND ELECTRICAL FEEDERS, SANITARY SEWERS,

MANUFACTURED BY FORD METER BOX CO. AND SHALL BE FOR USE ON DUCTILE IRON PIPE CONFORMING TO ANSI/AWWA C151/A21.51, FOR E. EXISTING DUCTILE IRON SYSTEMS FOR RESTRAINING PUSH—ON PIPE BELLS SHALL BE MEGALUG SERIES 1100HD OR FORD SERIES 1390. F. EXISTING DUCTILE IRON SYSTEMS REQUIRING RESTRAINT SHALL BE MEGALUG SERIES 1100SD (SPLIT MEGALUG) FOR MECHANICAL JOINTS. 3. DUCTILE IRON WATER MAIN TO BE CLASS 52. ALL DUCTILE IRON PIPE IS TO BE ENCASED IN POLYETHYLENE FILM POLYETHYLENE

A SET OF AS-BUILT RECORD DRAWING SHALL BE GIVEN TO THE CITY OF NAPERVILLE UPON COMPLETION OF IMPROVEMENTS SHOWING TH ELEVATION AND LOCATION (TIED TO TWO POINTS) OF ALL NEW AND EXISTING STRUCTURES INCLUDING FIRE HYDRANTS. VALVE BOXES AND VAULTS, LINESTOP SLEEVES, WATER SERVICE CORPORATION STOPS, WATER MAIN FITTINGS/BENDS, MANHOLES, SANITARY SERVICE WYES . SERVICE BOX: PROVIDE CURB VALVE AND CURB BOX, AS INDICATED ON THE PLANS. BOX SHALL BE EXTENSION TYPE WITH (MEASURED FROM DOWNSTREAM MANHOLE), AND ABANDONED WATER OR SANITARY SERVICE LINES. ALL ELEVATIONS SHOULD BE REFERENCED TO THE SAME BENCHMARK DATUM AS THE ORIGINAL DESIGN PLANS. HORIZONTAL TIES SHALL BE REFERENCED TO LOT LINES,

> ALL CANITARY SEWER DIRING SHALL RE DIVE DIRE MEETING THE REQUIREMENTS OF ASTM R-2241 WITH JOINTS CONFORMING TO ASTM ITINGS MEETING ASTM D-2241. GREATER THAN 12"SHALL BE FABRICATED FITTINGS MEETING ASTM D-2241 OR C905. MINIMUM

J. THE VALVES LESS THAN 16"SHALL BE STANDARD PATTERN, GATE VALVES AND SHALL HAVE THE NAME OR MARK OF THE MANUFACTURER, SIZE AND WORKING PRESSURE PLAINLY CAST IN RAISED LETTERS ON THE VALVE BODY. VALVES MAY BE APPROVED FROM ONE OF THE FOLLOWING MANUFACTURERS: AMERICAN, CLOW, WATEROUS OR KENNEDY. K. STAINLESS STEEL NUTS, BOLTS/T-BOLTS, AND WASHERS, TYPE 304 OR BETTER, WILL BE REQUIRED ON ALL WATER MAIN INSTALLATIONS. THIS WOULD APPLY TO HYDRANTS, TAPPING SLEEVES, VALVES, FITTINGS, RESTRAINT, AND OTHER APPURTENANCES BURIED OR IN VALVE VAULTS. MECHANICAL JOINTS AND RESTRAINT GLANDS REQUIRE 304 STAINLESS STEEL T-BOLTS. AN ANTI-SEIZE COMPOUND SHALL BE FACTORY APPLIED TO NUTS OR BOLTS -ANY DAMAGE TO THIS COATING SHALL BE REPAIR WITH FIELD APPLIED APPROVED ANTI-SEIZE COMPOUND THAT IS A MOLYBDENUM-BASE LUBRICANT, BOSTIK NEVER-SEEZ OR APPROVED EQUAL.

M. WATER MAINS SHALL BE SUBJECTED TO A HYDROSTATIC/LEAKAGE TEST IN ACCORDANCE WITH NAPERVILLE STANDARD SPECIFICATIONS. TEST PRESSURE SHALL BE NO LESS THAN 150 PSI FOR A PERIOD OF 4 HOURS AND NOT VARY BY MORE THAN + 5 PSI. DURING THE TEST. THE TEST GAUGE SHALL BE APPROVED BY THE CITY AND SHALL BE GLYCERIN OR OIL FILLED, WITH A RANGE OF NOT MORE THAN 200 PSI AND INCREMENTS NOT GREATER THAN 5 PSI, 4 "MINIMUM DIAL SIZE. WATER RECOVERY TEST SHALL BE COMPLETED AT THE END OF THE TESTING PERIOD TO SHOW ACTUAL LEAKING AND THAT THE WATER MAIN DID NOT HAVE TOO MUCH TRAPPED AIR IN THE TESTED

THE CONTRACTOR SHALL ROTATE AND/OR ADJUST ANY EXISTING AND/OR NEW HYDRANT TO THE SATISFACTION OF THE DEPARTMENT OF

N. THE CITY OF NAPERVILLE PUBLIC UTILITIES DOES NOT GUARANTEE THAT ANY VALVE OR FITTING IN THE EXISTING WATER DISTRIBUTION SYSTEM WILL HOLD AGAINST A HYDROSTATIC/LEAKAGE TEST. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING AND ACCEPTABLE PRESSURE TEST WHICH SHALL INCLUDE PROVISIONS AROUND EXISTING VALVES AND FITTINGS. O. FIRE HYDRANT SHOULD BE BAGGED "NOT IN SERVICE" UNTIL ALL TESTING AND DISINFECTION HAS BEEN COMPLETED AND NEW WATER MAIN P. SANITARY SEWER AND WATER SHALL BE CONSTRUCTED, TESTED, AND PLACED INTO SERVICE IN ACCORDANCE WITH CITY OF NAPERVILLE STANDARD SPECIFICATION AND SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION.

Q. ALL VALVE BOXES, VAULTS, HYDRANTS, AND MANHOLES SHALL NOT BE COVERED WITH CONSTRUCTION DEBRIS AND SHALL REMAIN R. WATER SERVICE LINE SMALLER THAN 3"SHALL BE TYPE K COPPER. IF JOINTS ARE REQUIRED DUE TO LENGTH OF SERVICE, THEN ONLY COMPRESSION TYPE COUPLING SHALL BE PERMITTED. NO SOLDERED OR FLARED TYPE JOINTS ARE ALLOWED. S. ALL SANITARY MANHOLES SHALL BE TESTED FOR LEAKAGE BY VACUUM TESTING. THE MANHOLE FRAME AND ADJUSTING RINGS SHALL B IN PLACE WHEN TESTING. ANY LEAKS SHALL BE REPAIRED FROM EXTERIOR OF MANHOLE -PATCHING INSIDE OF MANHOLE SHALL NOT BE ACCEPTABLE. A VACUUM OF 10 (254 MM) HG SHALL BE PLACE ON THE MANHOLE AND THE TIME SHALL BE MEASURED FOR THE VACUUM

TO DROP TO 9"(229 MM) HG. THE VACUUM SHALL NOT DROP BELOW 9"(229 MM) HG FOR THE FOLLOWING TIME PERIODS FOR EACH SIZE

A)48-INCH DIAMETER - 60 SECONDS B)60-INCH DIAMETER - 75 SECONDS C)72-INCH DIAMETER - 90 SECONDS

ANY MANHOLES THAT FAIL THE TEST SHALL BE SEALED AND RE-TESTED UNTIL ACCEPTABLE. T. THE CONTRACTOR SHALL PROVIDE INTERNAL TELEVISED INSPECTION OF ALL INSTALLED SANITARY SEWER, LATERALS, MANHOLES AND CONNECTIONS TO THE PUBLIC SYSTEM. FOLLOWING COMPLETION OF TELEVISING WORK, THE CONTRACTOR SHALL SUBMIT VIDEO RECORDINGS ON DVD OR FLASH DRIVE ALONG WITH A COMPREHENSIVE TELEVISING REPORT WHICH WILL INDICATE THE LOCATION, FOOTAGES AND NATURE DE ANY DEFECTS. PRIOR TO FINAL ACCEPTANCE, THESE DEFECTS SHALL BE REPAIRED TO THE SATISFACTION OF THE WATER/WASTEWATER

U. CONTRACTOR WORK HOURS ARE ONLY ALLOWED FROM 7:00 A.M. TO 5:00 P.M., MONDAY THROUGH SATURDAY. NO WORK SHALL BE PERMITTED ON SUNDAYS.

1. SANITARY PIPES WITH LESS THAN 4 FEET OR MORE THAN 25 FEET OF COVER SHALL BE CONSTRUCTED OF DUCTILE IRON PIPING (CLASS

50, MINIMUM) AND ENCASED IN POLYWRAP. W. ALL EXCAVATIONS MORE THAN 20 FEET DEEP MUST BE PROTECTED BY A SYSTEM DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER X. CONTRACTOR SHALL MAINTAIN 2' MINIMUM CLEARANCE BETWEEN EXISTING UTILITIES AND NEW FOUNDATIONS AND UNDERGROUND FACILITIES. IN AREAS WHERE FOUNDATIONS AND UNDERGROUND FACILITIES ARE PROPOSED ADJACENT TO EXISTING UTILITIES, THE CONTRACTOR SHALL POT HOLE BY VACUUM EXCAVATION OR HAND EXCAVATION TO LOCATE THE EXISTING UTILITY TO VERIFY MINIMUM

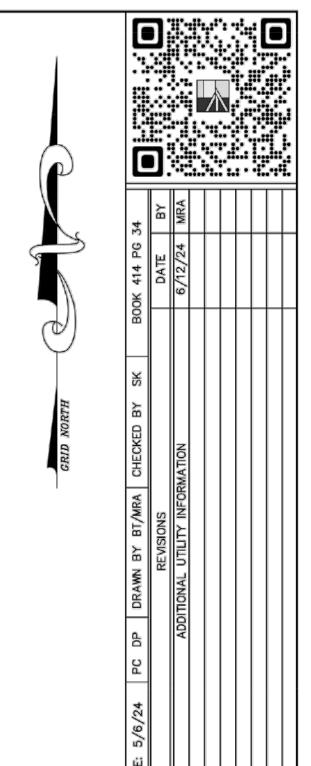
Y. FENCES SHALL BE INSTALLED A MINIMUM OF 5 FEET FROM ANY WATER OR SANITARY MAINS WHEN RUNNING PARALLEL WITH THEM. WHERE FENCES ARE INSTALLED CROSSING WATER OR SANITARY MAINS, THE POSTS SHALL BE LOCATED TO HAVE THE MAIN BETWEEN THEM. Z. ALL BRASS COMPONENTS SHALL BE CERTIFIED TO BE LEAD FREE IN COMPLIANCE WITH NSF 61 AND NSF 372 AND IDENTIFIED WITH

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168865042 SHEET NUMBER

BOUNDARY AND TOPOGRAPHIC SURVEY LEGAL DESCRIPTION (IN FEET) 1 inch = 20 ft.LOTS 15, 16 AND 17 (EXCEPT THE WESTERLY 17.0 FEET THEREOF) AND LOT 18 (EXCEPT THE WESTERLY 17.0 FEET AND EXCEPT THE NORTHERLY 17.0 FEET THEREOF) IN BLOCK 4 IN PARK ADDITION TO NAPERVILLE, BEING A SUBDIVISION OF PART OF THE SOUTHEAST QUARTER OF SECTION 12 AND THE NORTHEAST QUARTER OF SECTION 13, TOWNSHIP 38 NORTH, RANGE 9 EAST OF THE THIRD PRINCIPAL MERIDIAN AND PART OF THE SOUTHWEST QUARTER OF SECTION 7 AND THE NORTHWEST QUARTER OF SECTION 18, TOWNSHIP 38 NORTH, RANGE 10 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED JULY 26, 1873 AS DOCUMENT 16618, IN DUPAGE COUNTY, ILLINOIS. (OGDEN AVENUE / SIXTH STREET) VARIABLE WIDTH RIGHT-OF-WAY SPEED LIMIT 35 187.75'(R) S89'50'12"W(M) 171.05'(M) SIGN OVERHANG SIGN BASE FENCE END 2.3' W & 0.6' S ✓B6 BARRIER CURB ZONED-OC1 PACE BUS STOP 1. THE LEGAL DESCRIPTION FOR THIS SURVEY WAS PROVIDED BY THE CLIENT. 2. THE BASIS OF BEARINGS FOR THIS SURVEY IS THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD 83 (2011), ZONE 1201 (ILLINOIS EAST). 3. BUILDING LINES AND EASEMENTS SHOWN HEREON ARE BASED ON RECORDED SUBDIVISION PLATS OBTAINED BY THE SURVEYOR. THIS SURVEY DOES NOT DEPICT ZONING INFORMATION ADDITIONAL EASEMENTS OR RESTRICTIONS WHICH WOULD BE DISCLOSED BY A TITLE ZONED-R2 4. THE SURVEYOR CONTACTED J.U.L.I.E. FOR A DESIGN STAGE REQUEST FOR THIS SITE WHICH WAS ASSIGNED A DIG NUMBER OF #A241142839. INQUIRIES WERE SENT OUT TO THE VARIOUS UTILITY COMPANIES REQUESTING MAPS AND/OR ZONING: B-3, GENERAL COMMERCIAL DISTRICT ATLASES OF THEIR RESPECTIVE FACILITIES. THE INFORMATION RECEIVED TO DATE IS SHOWN HEREON, ALSO, PRIOR TO FIELD WORK ON THIS SITE, THE UNDERGROUND DETECTIVE PROVIDED UTILITY LOCATING SERVICES ON SITE AND THE INFORMATION OBTAINED BY THE SURVEYOR FROM THESE MARKS ARE SHOWN HEREON. ZONED-B3 REQUUIRED SHALL BE PROVIDED. 5. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM OBSERVED FIELD EVIDENCE AND EXISTING DRAWINGS, MAPS AND RECORDS SUPPLIED TO SURVEYOR. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES DISTANCE OF NOT LESS THAN 15'. SHOWN ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM AVAILABLE INFORMATION. THE SURVEYOR HAS SIDE: ABUTTING R2 DISTRICT: 12' (WHEN ACROSS AN EXISTING OR PROPOSED PHYSICALLY LOCATED OBSERVED STRUCTURES AND MARKINGS; HOWEVER, HE HAS RIGHT-OF-WAY, MEASURE FROM THE EDGE OF EXISTING OR PROPOSED NOT PHYSICALLY LOCATED THE UNDERGROUND LINES. RIGHT-OF-WAY). BRICK & METAL COMMERCIAL REAR: ABUTTING R2 DISTRICT: 12' (WHEN ACROSS AN EXISTING OR PROPOSED BUILDING #20 E. OGDEN AVE. RIGHT-OF-WAY, MEASURE FROM THE EDGE OF EXISTING OR PROPOSED DISTRICT SHALL BE 0.325. SERVICE STATION STACKING = 2 STACKING SPACES PLUS 1 SPACE FOR EACH ZONED-R2 VEHICLE THAT CAN BE SERVICED AT A PUMP; AUTOMATIC CAR WASH STACKING = 10 STACKING SPACES ENTERING CAR WASH, 2 STACKING SPACES EXITING CAR WASH SETBACK: WHEN FRONTING A MAJOR ARTERIAL: TEN (10) FEET FROM THE FRONT LEGEND LFOUND 1/2" O.D.I.P. HELD FOUND 7/8" O.D.I.P. UNLESS OTHERWISE NOTED COME GAS METER (HELD LOCATION) ⊗^G GAS VALVE ■ CONCRETE MONUMENT 本 GAS MARKER CROSS IN CONCRETE ODS DOWN SPOUT MANHOLE OBH BORING HOLE STORM STRUCTURE S SANITARY MANHOLE **W** MONITORING WELL ABBREVIATIONS OCC CLEANOUT OGP GATE POST FLARED END SECTION BOLLARD POLE ZONED-R2 O.D.I.P. = OUTSIDE DIAMETER IRON PIPE TF = TOP OF FOUNDATION FF = FINISHED FLOOR ¬∪ SIGN TRANSFORMER PAD ≈O FLAG POLE FES = FLARED END SECTION VCP = VITRIFIED CLAY PIPE © ELECTRIC MANHOLE MAILBOX EB ELECTRIC BOX DIP = DUCTILE IRON PIPE SANITARY SEWER PVC = POLYVINYL CHLORIDE RCP = REINFORCED CONCRETE PIPE E ELECTRIC PEDESTAL STORM SEWER 本 ELECTRIC MARKER CMP = CORRUGATED METAL PIPE — WATER MAIN (R) = RECORD BEARING OR DISTANCE EM ELECTRIC METER — = — GAS MAIN M) = MEASURED BEARING OR DISTANCE SEE SHEET 2 FOR TOPOGRAPHIC DETAILS O- UTILITY POLE EUGE ----ELECTRIC LINE C) = CALCULATED BEARING OR DISTANCE OVERHEAD WIRES = DEED BEARING OR DISTANCE UTILITY POLE W/LIGHT SURVEYOR'S CERTIFICATION CABLE TV LINE -D- UTILITY POLE W/TSF OVERHEAD TV WIRES STATE OF ILLINOIS OVERHEAD TRAFFIC SIGNAL TELEPHONE LINE A = ARC LENGTH R = RADIUS COUNTY OF KANE ☑ TRAFFIC SIGNAL MANHOLE FIBER OPTIC LINE CONIFEROUS TREE CH = CHORDCB = CHORD BEARING B.S.L. = BUILDING SETBACK LINE W/APPROX. DIAMETER THE ABOVE DESCRIBED PROPERTY WAS SURVEYED UNDER THE DIRECTION OF AN 本 LIGHT POLE DECIDUOUS TREE U.E. = UTILITY EASEMENT D.E. = DRAINAGE EASEMENT P.U.E. = PUBLIC UTILITY EASEMENT P.O.C. = POINT OF COMMENCEMENT ILLINOIS PROFESSIONAL LAND SURVEYOR ON 5/2/2024. ALL DISTANCES SHOWN ARE HH HAND HOLE W/APPROX. DIAMETER MS=MULTI-STEM IN FEET AND DECIMAL PARTS THEREOF. (DRIP LINE SHOWN IS APPROXIMATE) O' FIRE HYDRANT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM P.O.B. = POINT OF BEGINNING + ELEVATION STANDARDS FOR A BOUNDARY SURVEY. ⊗ICV IRRIGATION CONTROL VALVE P.U. & D.E. = PUBLIC UTILITY AND DRAINAGE EASEMENT POST INDICATOR VALVE BITUMINOUS PAVEMENT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM BC = BACK OF CURB SWC SIAMESE WATER CONNECTION STANDARDS FOR A TOPOGRAPHIC SURVEY OR TOPOGRAPHIC MAP. LINE LEGEND CONCRETE SURFACE BDC = BACK OF DEPRESSED FL = FLOW LINE WATER MARKER DEPRESSED CURB C = CONCRETE P = PAVEMENT WATER METER LIMITS OF LAND PER LEGAL DESCRIPTION GRAVEL SURFACE PROFESSIONAL DESIGN FIRM VALVE BOX G = GRAVEL EW = EDGE OF WALK TW = TOP OF WALL TP = TOP OF PIPE LAND SURVEYOR CORPORATION NO. 184-002778 B/BOX LANDSCAPE AREA ADJACENT LAND LICENSE EXPIRES 4/30/2025 PARCEL LINE STONE SURFACE TELEPHONE MANHOLE ---- EASEMENT LINE DETECTABLE TACTILE TELEPHONE NETWORK INTERFACE IE = INVERT ELEVATION --- CENTERLINE PL = PROPERTY LINE TELEPHONE MARKER ---- BUILDING SETBACK LINE 35-3509 DS = DOWN SPOUT S.F. = SQUARE FEET CHAIN LINK FENCE --- SECTION LINE FOUND REBAR-TELEPHONE PEDESTAL AURORA. SCOTT C. KREBS Q O OMETAL GUARDRAIL SL = SHORE LINE TSF = TRANSFORMER ---- EXISTING CONTOUR ILLINOIS ☑ CABLE TELEVISION PEDESTAL ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3509 न्यू OVERHEAD TRAFFIC LICENSE EXPIRES 11/30/24

B = PAVERS



THE FOLLOWING INFORMATION IS FROM THE CITY OF NAPERVILLE ON-LINE CODE OF ORDINANCES AS INTERPRETED BY THE SURVEYOR. CONSULT THE CITY OF NAPERVILLE ZONING DEPARTMENT FOR THE MOST UP-TO-DATE INFORMATION. A SITE PLAN MAY

FRONT: WHERE THE EXTENSION OF A FRONT OR SIDE LOT LINE COINSIDES WITH A FRONT LOT LINE OF AN ABUTTING LOT LOCATED IN A RESIDENCE DISTRICT OR IS ACROSS AN EXISTING OR PROPOSED RIGHT-OF-WAY FROM PROPERTY LOCATED IN A RESIDENCE DISTRICT, A YARD EQUAL IN DEPTH TO THE MINIMUM FRONT YARD

FUEL DISPENSING DEVICES SHALL BE EXEMPT FROM THE ESTABLISHED FRONT YARD OR CORNER SIDE YARD REQUIREMENTS, BUT ALL SUCH DISPENSING DEVICES SHALL BE SET BACK FROM THE FRONT LOT LINE AND THE CORNER SIDE LOT LINE A

THE MAXIMUM FLOOR AREA RATIO FOR ALL BUILDINGS AND STRUCTURES IN THE B3

OFF-STREET PARKING REQUIREMENTS: AUTOMOBILE SERVICE STATION & REPAIR FACILITY = 4.5 SPACES FOR EVERY 1,000 SQUARE FEET OF GROSS FLOOR AREA;

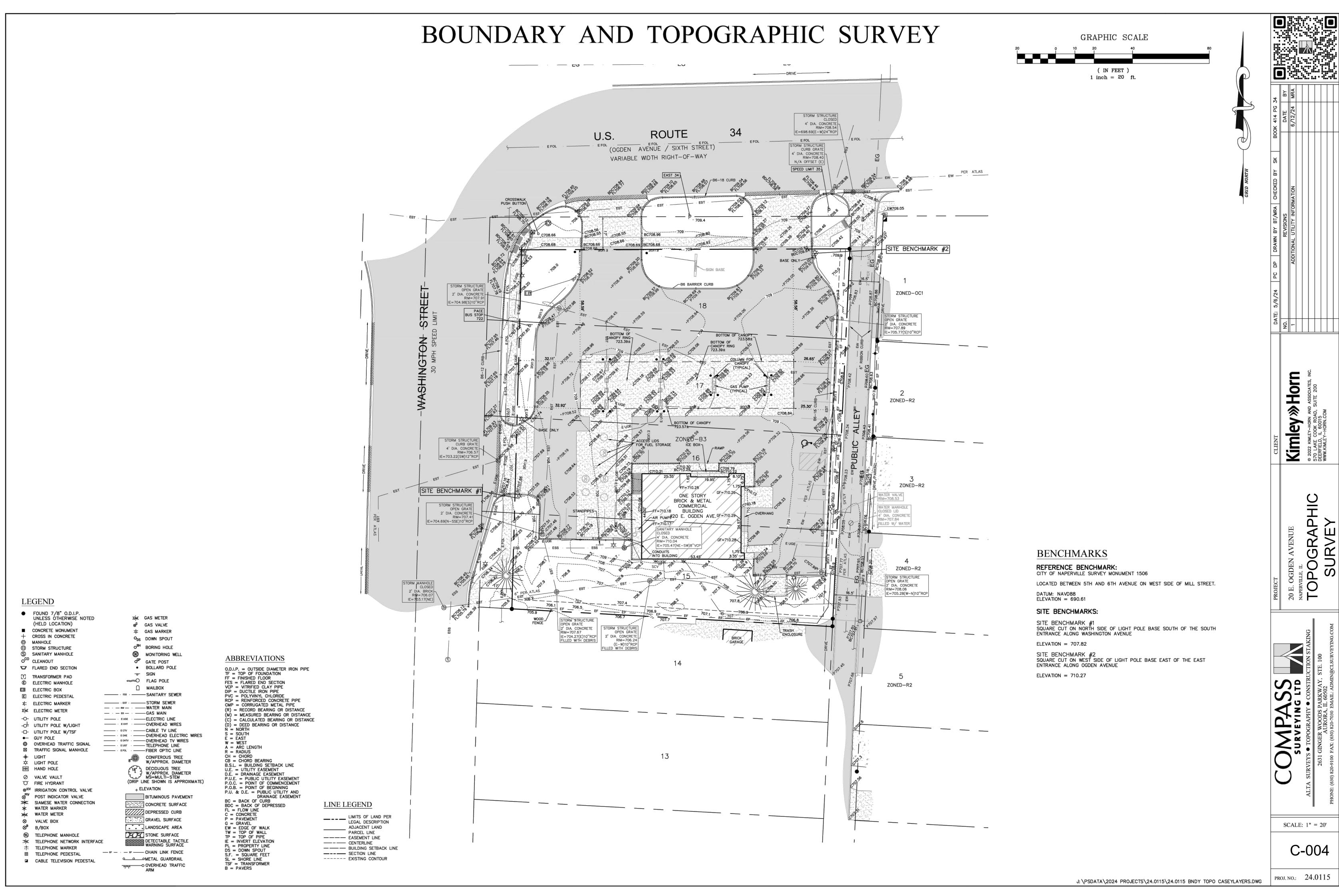
J:\PSDATA\2024 PROJECTS\24.0115\24.0115 BNDY TOPO CASE LAYERS.DWG

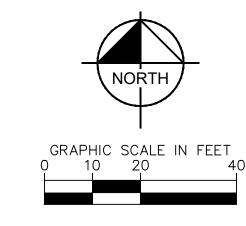
(C)

Horn

SCALE: 1'' = 20'

PROJ. NO. 24.0115







≫Horn

Kimley

WARNING: CONTRACTOR TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

SEE SHEET C-100A TREE PRESERVATION PLAN FOR DETAILS ON TREE REMOVALS

DEMOLITION NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF THE EXISTING STRUCTURES, RELATED UTILITIES, PAVING, AND ANY OTHER EXISTING IMPROVEMENTS AS NOTED.
- CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS. DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.
- THE GENERAL CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT. CONTRACTOR SHALL NOT DEMOLISH ANYTHING OUTSIDE THE OWNERS LEASE/PROPERTY LINE UNLESS SPECIFICALLY MENTIONED ON THIS SHEET.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.
- 5. IF DEMOLITION OR CONSTRUCTION ON SITE WILL INTERFERE WITH THE ADJACENT PROPERTY OWNER'S TRAFFIC FLOW. THE CONTRACTOR SHALL COORDINATE WITH ADJACENT PROPERTY OWNER, TO MINIMIZE THE IMPACT ON TRAFFIC FLOW. TEMPORARY RE—ROUTING OF TRAFFIC IS TO BE ACCOMPLISHED BY USING IDOT APPROVED TRAFFIC BARRICADES, BARRELS, AND/OR CONES. TEMPORARY SIGNAGE AND FLAGMEN MAY BE ALSO NECESSARY.
- 6. QUANTITIES DEPICTED ON THIS SHEET SHALL SERVE AS A GUIDE ONLY. CONTRACTOR TO VERIFY ALL DEMOLITION QUANTITIES.
- REFER TO GEOTECHNICAL REPORT PROVIDED BY OTHERS FOR ALL SUBSURFACE INFORMATION.
- 8. CONTRACTOR SHALL BEGIN CONSTRUCTION OF ANY LIGHT POLE BASES FOR RELOCATED LIGHT FIXTURES AND RELOCATION OF ELECTRICAL SYSTEM AS SOON AS DEMOLITION BEGINS. CONTRACTOR SHALL BE AWARE THAT INTERRUPTION OF POWER TO ANY LIGHT POLES OR SIGNS SHALL NOT EXCEED 24 HOURS.
- 9. EROSION CONTROL MUST BE ESTABLISHED PRIOR TO ANY WORK ON SITE INCLUDING DEMOLITION.
- 10. THE EXTENT OF SITE DEMOLITION WORK IS AS SHOWN ON THE CONTRACT DOCUMENTS AND AS SPECIFIED HEREIN.
- 11. CONTRACTOR MUST RECEIVE APPROVAL FROM CIVIL ENGINEER AND GEOTECHNICAL ENGINEER FOR THE MATERIAL TYPE AND USE IF CONTRACTOR DESIRES TO REUSE DEMOLISHED SITE PAVEMENT AS STRUCTURAL FILL.
- 12. EXISTING UTILITIES, WHICH DO NOT SERVICE STRUCTURES BEING DEMOLISHED, ARE TO BE KEPT IN SERVICE AND PROTECTED AGAINST DAMAGE DURING DEMOLITION OPERATIONS. CONTRACTOR SHALL ARRANGE FOR SHUT-OFF OF UTILITIES SERVING STRUCTURES TO BE DEMOLISHED. CONTRACTOR IS RESPONSIBLE FOR TURNING OFF, DISCONNECTING, AND SEALING INDICATED UTILITIES BEFORE STARTING DEMOLITION OPERATIONS. EXISTING UTILITIES TO E ABANDONED ARE TO BE CAPPED AT BOTH ENDS AND FILLED WITH FA-1 OR APPROVED EQUAL. ALL UNDERGROUND UTILITIES TO BE REMOVED ARE TO BE BACKFILLED WITH ENGINEERED FILL OR SELECT EXCAVATED MATERIAL, AS APPROVED BY THE GEOTECHNICAL ENGINEER, TO 95% OF MODIFIED PROCTOR DENSITY WITHIN PAVED AREAS AND TO 90% OF MODIFIED PROCTOR DENSITY FOR GREEN SPACE AREAS, IN ACCORDANCE WITH THE EARTHWORK SPECIFICATIONS. ALL PRIVATE UTILITIES (ELECTRIC, CABLE, TELEPHONE, FIBER OPTIC, GAS) SHALL BE REMOVED AND RELOCATED PER THE UTILITY OWNER AND THE LOCAL MUNICIPALITY'S REQUIREMENTS.
- 13. UNDERGROUND UTILITIES SHOWN ARE BASED ON ATLASES AND AVAILABLE INFORMATION PRESENTED AT THE TIME OF SURVEY. CONTRACTOR SHOULD CALL "JULIE" (1-800-892-0123) TO COORDINATE FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES BEFORE ORDERING MATERIALS OR COMMENCING CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES IMMEDIATELY. CONTRACTOR SHALL LOCATE AND PROTECT EXISTING UNDERGROUND AND OVERHEAD UTILITIES DURING CONSTRUCTION. UTILITY PROTECTION SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY OWNER AND AS DIRECTED BY THE GOVERNING MUNICIPALITY. DAMAGED CABLES/CONDUITS SHALL BE REPLACED IMMEDIATELY. ALL EXISTING STRUCTURES TO REMAIN SHALL BE PROTECTED THROUGHOUT THE CONSTRUCTION PROCESS. ALL DAMAGED STRUCTURES SHALL BE REPLACED IN-KIND AND THEIR REPLACEMENT COST SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. PROPER NOTIFICATION TO THE OWNERS OF THE EXISTING UTILITIES SHALL BE MADE AT LEAST 48 HOURS BEFORE CONSTRUCTION COMMENCES.
- 14. USE WATER SPRINKLING, TEMPORARY ENCLOSURES, AND OTHER SUITABLE METHODS TO LIMIT DUST AND DIRT RISING AND SCATTERING IN THE AIR TO TH LOWEST LEVEL. COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION. SEE EROSION CONTROL SHEETS FOR FURTHER
- 15. COMPLETELY FILL BELOW-GRADE AREAS AND VOIDS RESULTING FROM DEMOLITION OF STRUCTURES TO THE FINAL LINES AND GRADES SHOWN ON THE CONTRACT DOCUMENTS. BACKFILL MATERIAL SHALL BE IDOT APPROVED CRUSHED LIMESTONE (CA-6) OR APPROVED EQUAL. USE SATISFACTORY SOIL MATERIALS CONSISTING OF STONE, GRAVEL AND SAND, FREE FROM DEBRIS, TRASH, FROZEN MATERIALS, ROOTS AND OTHER ORGANIC MATTER. PRIOR TO PLACEMENT OF FILL MATERIALS, ENSURE THAT AREAS TO BE FILLED ARE FREE OF STANDING WATER, FROST, FROZEN MATERIAL, TRASH AND DEBRIS. PLACE FILL MATERIALS IN HORIZONTAL LAYERS NOT EXCEEDING 9" IN LOOSE DEPTH. COMPACT EACH LAYER AT OPTIMUM MOISTURE CONTENT OF FILL MATERIAL TO 95% OF MODIFIED PROCTOR DENSITY UNLESS SUBSEQUENT EXCAVATION FOR
- 16. TO HAVE AN EXISTING SERVICE DISCONNECTED CALL THE CITY DISPATCH OFFICE AT 630-420-6187. PLEASE ALLOW AT LEAST 24 HOURS NOTICE. METERS AND

DEMOLITION LEGEND

B · //// CURB REMOVAL C · X·X · UTILITY REMOVAL

 $\langle H \rangle = = =$ SAWCUT LINE

FENCE REMOVAL

ITEM TO REMAIN, PROTECT DURING CONSTRUCTION

BUILDING REMOVAL

 $\langle \mathsf{J} \rangle \cdot \otimes \cdot \otimes \cdot$ utility to be abandoned

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C-100

SHEET NUMBER

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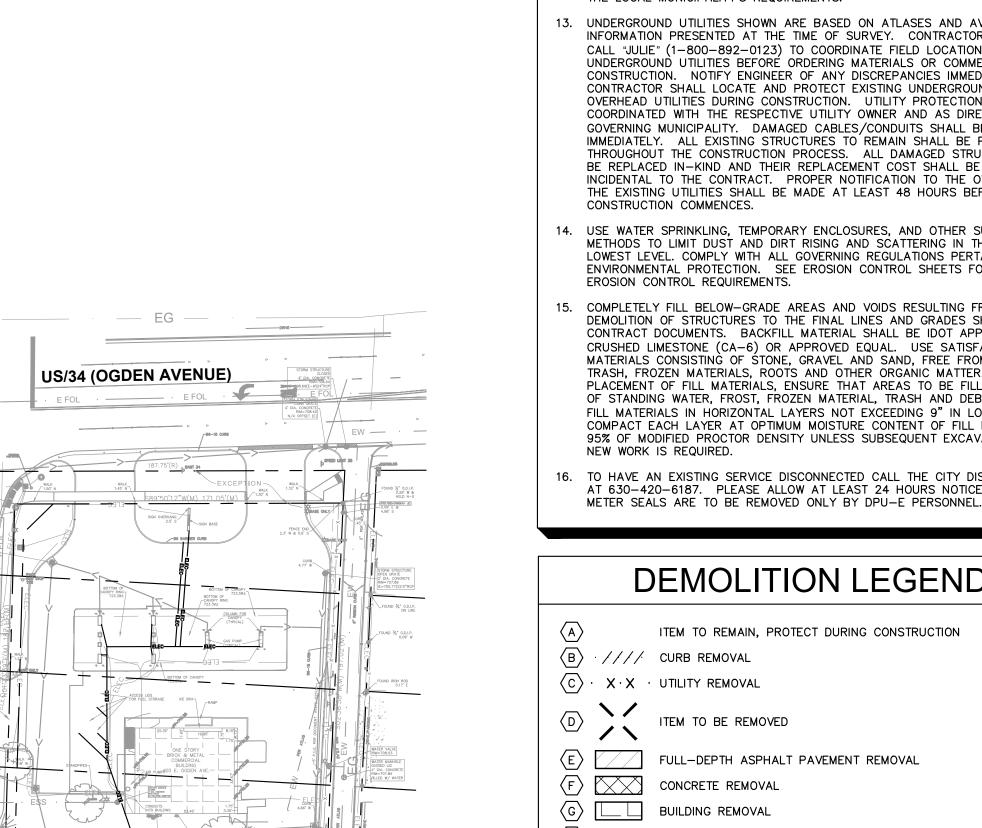
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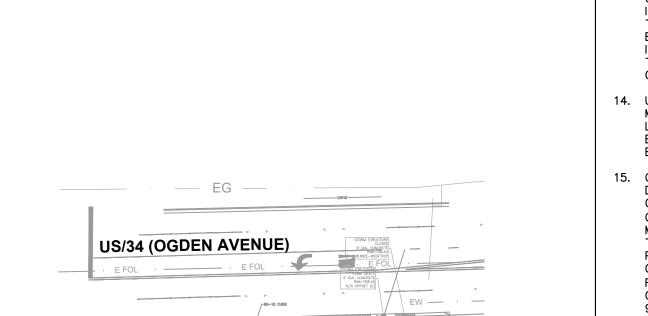
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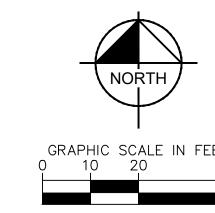
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POTENTIAL ELECTRIC CONDUIT RE-ROUTING (SHOWN FOR REFERENCE ONLY - NOT FOR DESIGN)





GENERAL NOTES

- 1. ALL DIMENSIONS REFER TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
- 2. BUILDING DIMENSIONS ARE TO THE OUTSIDE FACE OF BUILDING UNLESS OTHERWISE NOTED.
- REFER TO ARCHITECTURAL AND STRUCTURAL PLANS TO VERIFY ALL BUILDING
- 4. RADII ADJACENT TO PARKING STALL AND NOT DIMENSIONED ON THIS PLAN
- SHALL BE 3-FEET, TYPICAL.
- 6. ALL PROPOSED ON-SITE STRIPING SHALL BE PAINTED UNLESS OTHERWISE

5. REFER TO ARCHITECTURAL PLANS FOR MONUMENT SIGN DETAILS. SEE MEP

KEY NOTES

- (1) B6.12 CONCRETE CURB AND GUTTER, TYP. (SEE SHEET C-606)
- (2) CONNECT TO EXISTING PAVEMENT, SIDEWALK, CURB, TYP.

PLANS FOR SITE ELECTRICAL DRAWINGS.

- (3) CONCRETE SIDEWALK, TYP. (SEE SHEET C-601 & C-607)
- (4) ACCESSIBLE YELLOW PAVEMENT MARKINGS, TYP. (SEE SHEET C-607 ADA STALL TO BE PAINTED YELLOW PER NAPERVILLE STANDARD 590.35)
- $\langle 5 \rangle$ ACCESSIBLE PARKING SIGN, TYP. (MUTCD R7-8, SEE SHEET C-607)
- 6 4" WIDE PAINTED SOLID WHITE LINE, TYP.
- (7) TRASH ENCLOSURE (SEE ARCHITECTURAL PLANS FOR DETAILS)
- 8 BOLLARD, TYP. (SEE SHEET C-601 DETAIL 1)
- 9 MONUMENT SIGN (SEE PLANS BY OTHERS)
- EMERGENCY SHUT-OFF SWITCH (SEE SHEET C-601 DETAIL 8) AIR COMPRESSOR BOX (SEE SHEET C-601 DETAIL 7)
- (12) LIGHT POLES SHOWN FOR COORDINATION ONLY (SEE SITE LIGHTING PLANS)
- (13) 10' X 10' TRANSFORMER PAD (FOR REFERENCE ONLY)
- (14) BIKE RACK (TO BE PROCURED AND INSTALLED BY CONTRACTOR; WAVE STYLE, 3-LOOP, 5-BIKE CAPACITY, HEAVY DUTY, BLACK IN COLOR, SURFACE MOUNTED)
- (15) DEPRESSED CURB AND GUTTER
- (16) FIREWOOD RACK (SEE ARCHITECTURAL PLANS FOR DETAILS)
- PROPANE TANK CABINET (SEE ARCHITECTURAL PLANS FOR DETAILS)
- (18) PACKAGED ICE CABINET (SEE ARCHITECTURAL PLANS FOR DETAILS)

PARKING SUMMARY

- PARKING SPACES REQUIRED (CITY STANDARD)
- *4.5 SPACES / 1000 SF OF GROSS FLOOR AREA STANDARD PARKING SPACES PROVIDED
- FUEL CANOPY PARKING SPACES PROVIDED
- TOTAL PARKING SPACES PROVIDED
- ACCESSIBLE PARKING SPACES REQUIRED ACCESSIBLE PARKING SPACES PROVIDED
- = 15 SPACES
- = 9 SPACES = 12 SPACES
- = 1 SPACES
- = 1 SPACES = 22 SPACES

PAVING AND CURB LEGEND

SEE SHEET C-601 DETAIL 1 FOR CASEY'S PAVEMENT SECTION SEE SHEET C-608 FOR CITY OF NAPERVILLE PAVEMENT SECTION

CONCRETE PAVEMENT (STANDARD) SEE SHEET C-601 DETAIL 2 FOR PAVEMENT SECTION

<u>8" CONCRETE PAVEMENT (HEAVY-DUTY)</u> SEE SHEET C-601 DETAIL 2 FOR PAVEMENT SECTION

8" REINFORCED CONCRETE PAVEMENT FOR UNDERGROUND TANKS SEE SHEET C-601 DETAIL 2 FOR PAVEMENT SECTION

<u>3' WIDE CONCRETE BAND (BOLLARD ISOLATION)</u>

MATCH EXISTING ROADWAY SECTION, SEE IDOT PAVEMENT PATCH DETAIL

REVERSE PITCH CONCRETE CURB AND GUTTER CONCRETE DEPRESSED CURB AND GUTTER

CONCRETE PAVERS TO BE INSTALLED PER CITY DETAIL 590.15

 $\overline{\hspace{1cm}}$

FEMA NOTE

(PCBMPS) ARE NOT REQUIRED FOR THIS STORMWATER MANAGEMENT.

PER CITY OF NAPERVILLE, POST CONSTRUCTION BEST MANAGEMENT PRACTICES

CITY OF NAPERVILLE NOTES

2011 DEED RESTRICTION: ALL UTILITY CONNECTIONS SHALL BE MADE TO PROHIBIT VAPOR

2011 DEED RESTRICTION: NEW BUILDINGS CONSTRUCTED ON SITE SHALL BE REQUIRED TO

2015 ENVIRONMENTAL NOTICE: ENGINEERED BARRIER CONSTRUCTED IN THE SOUTHWEST

2015 ENVIRONMENTAL NOTICE: ANY CONTAMINATED SOIL OR GROUNDWATER REMOVED OR EXCAVATED FROM, OR DISTURBED AT, THE ABOVE REFERENCED SITE MUST BE HANDLED IN ACCORDANCE WITH ALL APPLICABLE LAWS AND REGULATIONS UNDER 35 ILL. ADM

UNDERGROUND STORAGE TANK BALLAST REQUIREMENTS

AFTER SUCCESSFUL INSTALL OF UNDERGROUND STORAGE

TANKS, DISPOSAL OF TANK BALLAST WATER SHOULD BE

DISCHARGED TO THE CITY OF NAPERVILLE STORM SEWER

= 23,285 SQ FT / 0.53 AC = 8,143 SQ FT / 0.19 AC

= 24,378 SQ FT / 0.56 AC = 7,050 SQ FT / 0.16 AC

= 1,093 SQ FT / 0.03 AC

= 3,218 SF

= 31,428 SF= 0.102

= 0.325

SITE DATA TABLE

2011 DEED RESTRICTION: ALL UNDERGROUND UTILITIES SHALL BE VAPOR TIGHT.

INSTALL AN IMPERVIOUS LINER UNDER THE NEW FOUNDATION

AND LIQUID INTRUSION INTO STRUCTURES

CODE SUBTITLE G (HAZARDOUS WASTE)

SYSTEM.

EXISTING IMPERVIOUS AREA: EXISTING PERVIOUS AREA:

PROPOSED IMPERVIOUS AREA:

NET DIFFERENCE IMPERVIOUS:

BUILDING AREA

PROPERTY AREA

MAXIMUM FAR ALLOWED

PROPOSED PERVIOUS AREA:

PER FLOOD INSURANCE RATE MAP PANEL NO. 17043C0231J, THE SITE OR A PORTION OF THE SITE IS LOCATED IN ZONE X.

SEE SHEET C-601 DETAIL 1 FOR PAVEMENT SECTION

CITY OF NAPERVILLE DOWNTOWN STREETCAPE PAVERS

STANDARD PITCH CONCRETE CURB AND GUTTER

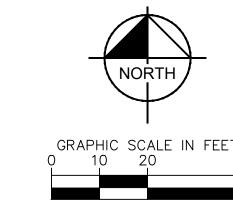
ORIGINAL ISSUE: 10/01/2024 KHA PROJECT NO

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3 #65; RVIL

ABOVE WORK TO BE PERFORMED AS NOTED.





GRADING NOTES

- CONTRACTOR TO VERIFY ALL EXISTING TOPOGRAPHY AND STRUCTURES ON THE SITE AND IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING WORK.
- 2. ALL PAVEMENT SPOT GRADE ELEVATIONS AND RIM ELEVATIONS WITHIN OR ALONG CURB AND GUTTER REFER TO FLOW LINE ELEVATIONS UNLESS OTHERWISE NOTED.
- 3. ALL ELEVATIONS SHOWN DEPICT FINISHED GRADE UNLESS OTHERWISE NOTED.
 GENERAL CONTRACTOR TO COORDINATE WITH EXCAVATION, LANDSCAPE AND
 PAVING SUBCONTRACTORS REGARDING TOPSOIL THICKNESS FOR LANDSCAPE

ENSURE ADEQUATE CUT TO ESTABLISH SUBGRADE ELEVATIONS.

NO EARTHEN SLOPE SHALL BE GREATER THAN 3:1, UNLESS OTHERWISE NOTED.
 MAXIMUM SLOPE IN ACCESSIBLE PARKING SPACES AND LOADING ZONES SHALL

AREAS AND PAVEMENT SECTION THICKNESS FOR PAVED AREAS TO PROPERLY

- NOT EXCEED 2.0% IN ALL DIRECTIONS.
- MAXIMUM RUNNING SLOPE SHALL NOT EXCEED 5% AND CROSS SLOPE SHALL NOT EXCEED 2% ON ALL SIDEWALKS AND ACCESSIBLE ROUTES.
- 7. WHEN NATURAL FLOW OF DRAINAGE IS AWAY FROM CURB, CONTRACTOR TO INSTALL REVERSE GUTTER PITCH.
- 8. MATCH EXISTING ELEVATIONS AT THE PROPERTY LIMITS.

708.61

708.85

UGST GRADING DETAIL

N.T.S.

GRADING LEGEND

TP = TOP OF PAVEMENT

EP = EDGE OF PAVEMENT

FL = FLOW LINE TC = TOP OF CURB

ME = MATCH ELEVATION

TF = TOP OF FOUNDATION

R = RIM ELEVATION TW = TOP OF WALL

FG = FINISHED GRADE

——XXX—— PROPOSED CONTOUR

RIDGE LINE

SLOPE AND FLOW DIRECTION

DETENTION BASIN 100—YEAR EMERGENCY
OVERLAND OVERFLOW ROUTE

PROPOSED SWALE

PROPOSED RETAINING WALL

REVERSED PITCH CURB AND GUTTER

ACCESSIBLE ROUTE

RIP RAP (SEE DETAILS)

DETENTION SUMMARY

EXISTING DETENTION PROPOSED DETENTION CHANGE IN VOLUME

=1,025.5 CUBIC-FT =1,226.8 CUBIC-FT =201.3 CUBIC-FT

Total Storage 140.8

6531 Naperville -	Existing Detention	1			
	A	rea	Average	Incremental	Cummulative
Elevation			Area	Storage	Storage
(ft)	(ft^2)	(acre)	(ft ²)	(ft ³)	(ft ³)
96.90	1,040	0.024			
			1065.09	106.50	
97.00	1,090	0.025			
			1319.61	919.03	
97.70	1,549	0.036			1025.5

(521)			'11 D 1D (('			
6531 Nape		aperville - Proposed	erville - Proposed Detention			
>		A	rea			Cummulative
>	Size	Type	Leng	th	Area	Storage
	(in)		(ft))	(ft ²)	(ft^3)
	12	HDPE	179)	0.79	140.59
/	12	C-900	35		0.79	27.49
	30	HDPE	187	7	4.91	917.93
				Tota	l Storage	1086.0
Structure	HWL	Elevation Lowest	·	I Diai	meter (ft)	Volume (ft ³)
D1	706.81	705.00	1.8	1	4	22.75
D2	706.81	705.03	1.7	' 8	4	22.37
D3	706.81	705.07	1.7	'4	4	21.87
D4	706.81	705.11	1.	7	4	21.36
D5	706.81	705.15	1.6	66	4	20.86
D6	706.81	705.20	1.6	1	5	31.61

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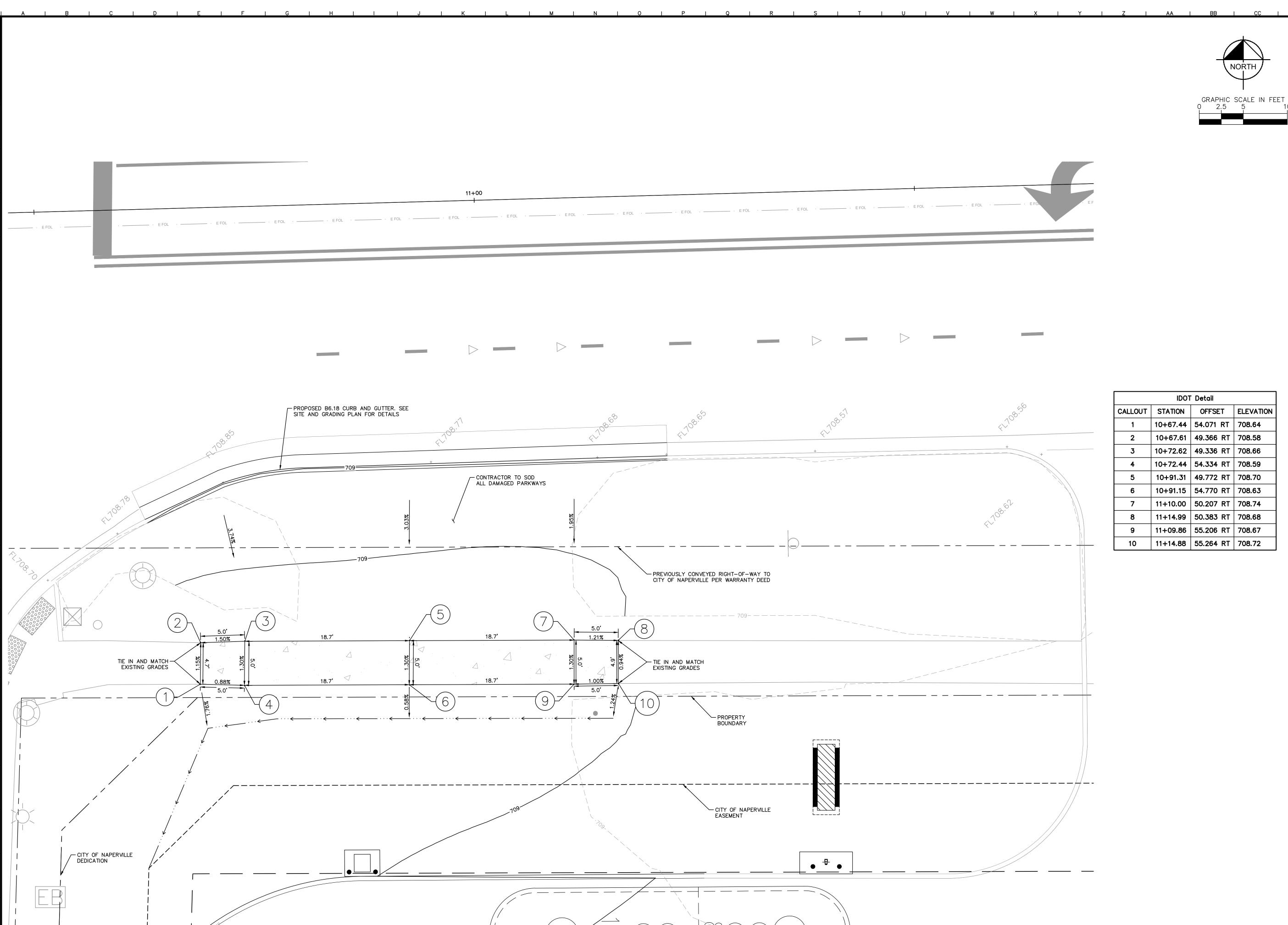
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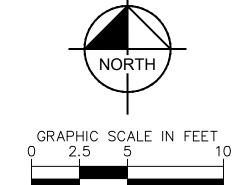
CASEY NAPERVILLE

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IDOT ADA GRADING DETAIL





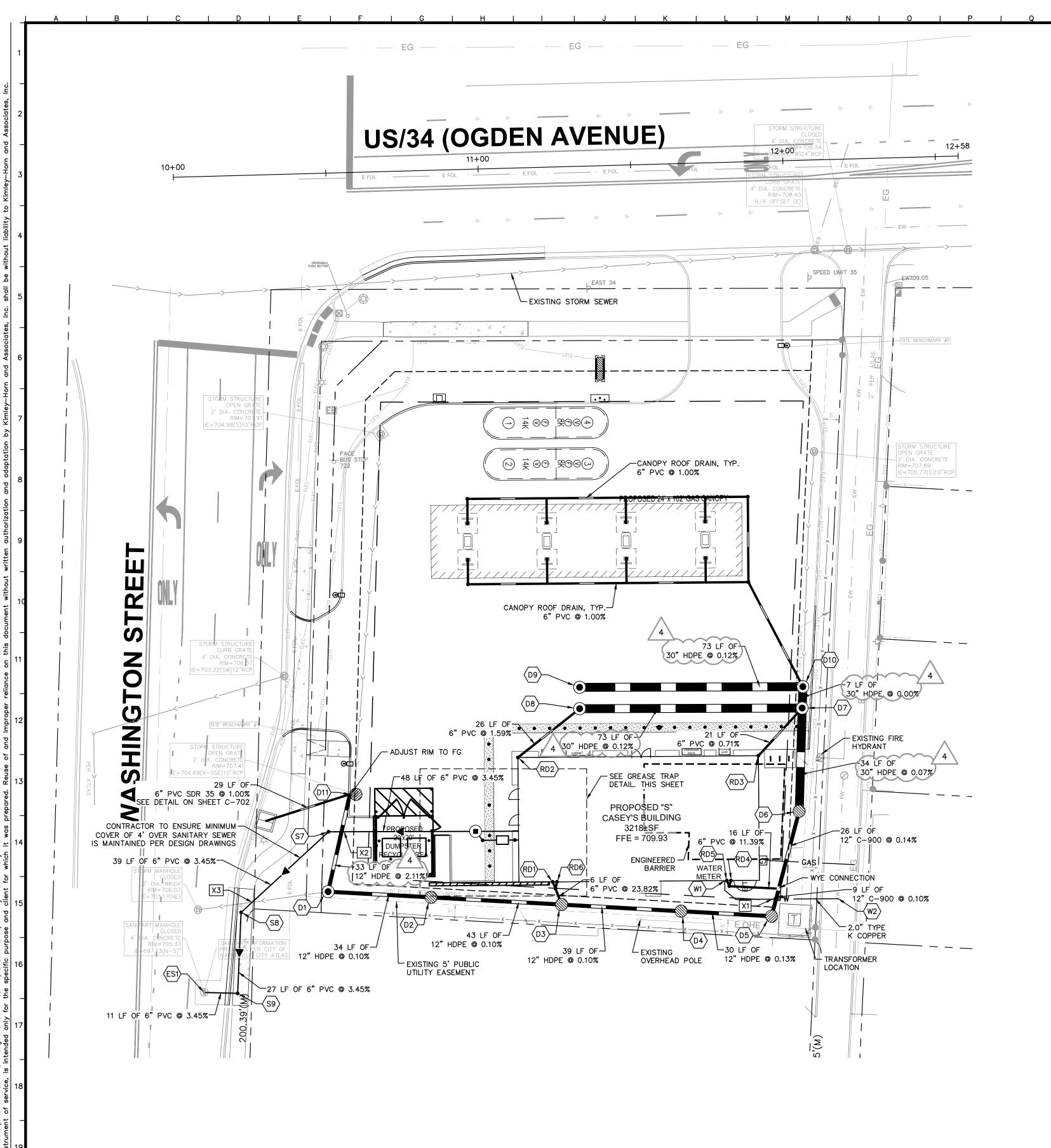
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WATER ST	RUCTURE TABLE
STRUCTURE NAME:	DETAILS:
W1	WATER SERVICE BUILDING CONNECTION FG ELEV: 709.93
W2	CONNECT TO EXISTING WATERMAIN CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH FG ELEV: 707.92

SANITARY ST	TRUCTURE TABLE
STRUCTURE NAME:	DETAILS:
S1	GREASE LINE BUILDING CONNECTION INV OUT: 705.43 (W, 6")
S2	SANITARY SEWER BUILDING CONNECTION

		STRUCTURE NAME:	DETA	
SANITARY STRUCTURE TABLE CTURE NAME: DETAILS:			STORM MH — EXF OULET CONTROL S SEE CONSTRUCTION	
ES1	CORE AND CONNECT INTO EXISTING SANITARY MANHOLE RIM: 705.33	D1	RIM: 709.00 INV IN: 704.00 (E INV IN: 704.00 (N INV OUT: 703.97	
S3	INV OUT: 697.13 (S, 8") 6" CLEANOUT RIM: 709.91	D2	48" STORM MH — RIM: 706.81 INV IN: 704.03 (E INV OUT: 704.03	
	INV IN: 705.41 (E, 6") INV OUT: 705.41 (W, 6")		48" STORM MH - RIM: 707.48	
S4	SCHIER GB-75 GREASE TRAP SEE DETAILS RIM: 709.84 INV IN: 705.32 (E, 6")	D3	INV IN: 704.08 (E INV IN: 704.10 (N INV OUT: 704.08	
 S5	INV OUT: 705.32 (W, 6") 6" CLEANOUT RIM: 709.68	D4	48" STORM MH - RIM: 706.98 INV IN: 704.12 (E INV OUT: 704.12	
	INV IN: 705.19 (E, 6") INV OUT: 705.19 (NW, 6")	D5	48" STORM MH - RIM: 707.60	
S6	SANITARY MANHOLE RIM: 709.61 INV IN: 705.05 (E, 6")	D3	INV IN: 704.15 (N INV OUT: 704.15	
	INV IN: 705.05 (SE, 6") INV OUT: 703.30 (W, 6")	D6	60" STORM MH - RIM: 708.80 INV IN: 704.20 (N	
S7	6" CLEANOUT RIM: 707.99 INV IN: 701.64 (E, 6")		1NV OUT: 704.20 72" STORM MH -	
	INV OUT: 701.64 (SW, 6") 6" CLEANOUT	D7	RIM: 709.34 INV IN: 704.22 (N	
S8	INV IN: 700.29 (NE, 6") INV OUT: 700.29 (S, 6")		INV IN: 704.22 (INV IN: 705.61 (INV OUT: 704.22	
S9	6" CLEANOUT INV IN: 699.38 (N, 6")	D8	60" STORM MH - RIM: 709.70 INV IN: 705.59 (S INV OUT: 704.31	
	INV OUT: 699.38 (W, 6")	D9	60" STORM MH - RIM: 709.59 INV OUT: 704.31	
<u></u>		I		

UTILITY	CROSSING	LEGEND

X1 18" STORM	B/P = 704.13
2.0" WATER	T/P = 702.61
X2 12" STORM	B/P = 704.25
6" SAN.	T/P = 702.33
X3 10" STORM	B/P = 703.48

6" SAN. T/P = 700.98NOTE: WHERE THERE IS LESS THAN 10 FT HORIZONTAL 18-IN VERTICAL SEPARATION BETWEEN A SEWER AND WATER MAIN, OR IF WATER MAIN CROSSES UNDER A SEWER, WATER MAIN QUALITY PIPE IS TO BE USED TO CONSTRUCT THE SEWER OR EITHER PIPE IS TO BE ENCASED. THE PROTECTION MUST EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE DISTANCE BETWEEN THE WATER MAIN AND SEWER IS AT LEAST 10 FT. ACCEPTABLE WATER MAIN QUALITY PIPE INCLUDES PVC SDR/WMQ MEETING ASTM D2241 WITH JOINTS MEETING ASTM D3139 OR DUCTILE IRON PIPE. RCP STORM SEWER WITH FLEXIBLE GASKET JOINTS MEETING ASTM C361 OR ASTM C443 IS ALSO ACCEPTABLE AT CROSSINGS.

6" PVC @ 3.45%

6" PVC @ 3.88% _

7 LF OF 6" PVC @ 2.00% (S4)

√ 6" PVC @ 3.45%

GREASE TRAP 1" = 10'

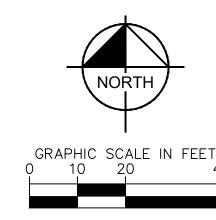
/ 14 LF OF 6" PVC @ 2.50%

4 LF OF 6" PVC @ 2.00%

-1 LF OF 6" PVC @ 2.00%

MISCELLANEOUS STORM STRUCTURE TABLE							
STRUCTURE NAME:	DETAILS:						
RD1	ROOF DRAIN INV OUT: 706.00 (SE, 6")						
RD2	ROOF DRAIN INV OUT: 706.00 (NE, 6")						
RD3	ROOF DRAIN INV OUT: 705.76 (NE, 6")						
RD4	ROOF DRAIN INV OUT: 706.50 (S, 6")						
RD5	ROOF DRAIN INV OUT: 706.50 (SE, 6")						
RD6	ROOF DRAIN INV OUT: 706.00 (S, 6")						

BUILDING CONNECTION INV OUT: 705.40 (W, 6")	STORM STRUCTURE TABLE							
	STRUCTURE NAME:	DETAILS:						
DETAILS: CORE AND CONNECT INTO EXISTING SANITARY MANHOLE RIM: 705.33	D1	STORM MH — EXPOSED CLOSED LID OULET CONTROL STRUCTURE SEE CONSTRUCTION DETAILS RIM: 709.00 INV IN: 704.00 (E, 12") INV IN: 704.00 (N, 12") INV OUT: 703.97 (W, 10")						
NV IN: 699.00 (E, 6") NV OUT: 697.13 (S, 8") S" CLEANOUT RIM: 709.91	D2	48" STORM MH — OPEN LID RIM: 706.81 INV IN: 704.03 (E, 12") INV OUT: 704.03 (W, 12")						
NV IN: 705.41 (E, 6") NV OUT: 705.41 (W, 6") SCHIER GB-75 GREASE TRAP SEE DETAILS RIM: 709.84 NV IN: 705.32 (E, 6")	D3	48" STORM MH — OPEN LID RIM: 707.48 INV IN: 704.08 (E, 12") INV IN: 704.10 (N, 6") INV OUT: 704.08 (W, 12")						
NV OUT: 705.32 (W, 6") "CLEANOUT RIM: 709.68 NV IN: 705.19 (E, 6")	D4	48" STORM MH — OPEN LID RIM: 706.98 INV IN: 704.12 (E, 12") INV OUT: 704.12 (W, 12")						
NV OUT: 705.19 (NW, 6") SANITARY MANHOLE RIM: 709.61	D5	48" STORM MH — OPEN LID RIM: 707.60 INV IN: 704.15 (N, 12") INV OUT: 704.15 (W, 12")						
NV IN: 705.05 (E, 6") NV IN: 705.05 (SE, 6") NV OUT: 703.30 (W, 6")	D6	60" STORM MH - OPEN LID RIM: 708.80 INV IN: 704.20 (N, 30") INV OUT: 704.20 (S, 12")						
RIM: 707.99 NV IN: 701.64 (E, 6") NV OUT: 701.64 (SW, 6") S" CLEANOUT	D7	72" STORM MH — CLOSED LID RIM: 709.34 INV IN: 704.22 (N, 30") INV IN: 704.22 (W, 30") INV IN: 705.61 (SW, 6")						
NV IN: 700.29 (NE, 6") NV OUT: 700.29 (S, 6")		INV OUT: 704.22 (S, 30")						
" CLEANOUT NV IN: 699.38 (N, 6") NV OUT: 699.38 (W, 6")	D8	60" STORM MH — CLOSED LID RIM: 709.70 INV IN: 705.59 (SW, 6") INV OUT: 704.31 (E, 30")						
· · ·	D9	60" STORM MH - CLOSED LID RIM: 709.59 INV OUT: 704.31 (E, 30")						
B/P = 704.13 T/P = 702.61 B/P = 704.25 T/P = 702.33	D10	72" STORM MH - CLOSED LID RIM: 709.18 INV IN: 704.22 (W, 30") INV IN: 705.48 (N, 12") INV IN: 704.25 (NW, 6") INV OUT: 704.22 (S, 30")						
B/P = 703.48 T/P = 700.98 HAN 10 FT HORIZONTAL OR TWEEN A SEWER AND N CROSSES UNDER A SEWER,	D11	MH — OPEN LID IN CURB RIM: 707.56 INV IN: 704.69 (N, 10") INV IN: 705.00 (W, 6") INV OUT: 704.69 (S, 12")						





UTILITY NOTES

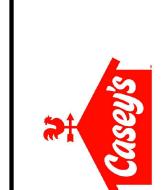
- ALL WATER LINES ≥ 4" SHALL BE ANSI /AWWA PVC C-900 WATERMAIN QUALITY PIPE.
- ALL SANITARY SEWER LINES SHALL BE PVC MEETING, ASTM D-3034 SDR 26 EXCEPT FOR SANITARY SEWER THAT CROSSES ABOVE WATER MAIN, THIS PIPE SHALL BE AWWA C900 (UNLESS WATER MAIN CASING IS UTILIZED). PROVIDE 42" MINIMUM COVER.
- CONTRACTOR SHALL COORDINATE ANY DISRUPTIONS TO EXISTING UTILITY SERVICES WITH ADJACENT PROPERTY OWNERS.
- ALL ELECTRIC AND TELEPHONE EXTENSIONS INCLUDING SERVICE LINES SHALL BE CONSTRUCTED TO THE APPROPRIATE UTILITY COMPANY SPECIFICATIONS. ALL UTILITY DISCONNECTIONS SHALL BE COORDINATED WITH THE DESIGNATED UTILITY COMPANIES.
- CONSTRUCTION SHALL NOT START ON ANY PUBLIC UTILITY SYSTEM UNTIL WRITTEN APPROVAL HAS BEEN RECEIVED BY THE ENGINEER FROM THE APPROPRIATE GOVERNING AUTHORITY AND CONTRACTOR HAS BEEN NOTIFIED BY THE ENGINEER.
- CONTRACTOR TO CALL "JULIE" (1-800-892-0123) TO COORDINATE FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES BEFORE ORDERING MATERIALS OR COMMENCING CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
- PRIOR TO THE CONSTRUCTION OF OR CONNECTION TO ANY STORM DRAIN, SANITARY SEWER, WATER MAIN OR ANY OTHER UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM THE ENGINEER AND THE OWNER/ DEVELOPER OF ANY CONFLICT OR REQUIRED DEVIATIONS FROM THE PLAN. NOTIFICATION SHALL BE MADE A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION. THE ENGINEER AND ITS CLIENTS SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION. THE MUNICIPALITY SHALL BE NOTIFIED OF ANY AND ALL CHANGES TO THE DESIGN
- CONTRACTOR SHALL COMPLY COMPLETELY WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING AND OTHER MEANS OF PROTECTION. THIS IS TO INCLUDE, BUT NOT LIMITED FOR ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH PERFORMANCE CRITERIA AS REQUIRED BY OSHA.
- CONTRACTOR TO AVOID DISRUPTION OF ANY ADJACENT TENANT'S TRAFFIC OPERATIONS DURING INSTALLATION OF UTILITIES.
- 10. ALL DIMENSIONS ARE TO CENTERLINE OF PIPE OR CENTER OF MANHOLE UNLESS NOTED OTHERWISE.
- 11. SEE ARCHITECTURAL AND MEP PLANS FOR EXACT UTILITY CONNECTION LOCATIONS AT BUILDING.
- 12. LIGHT POLES SHOWN FOR COORDINATION PURPOSES ONLY AND DO NOT REPRESENT ACTUAL SIZE. SEE SITE LIGHTING PLANS BY OTHERS FOR MORE INFORMATION.
- 13. SEE DETAILS FOR LOCATING STORM STRUCTURES WITHIN THE CURB LINE.
- 14. STORMWATER FACILITIES MUST BE FUNCTIONAL BEFORE BUILDING CONSTRUCTION BEGINS IF REQUIRED BY AUTHORITY HAVING JURISDICTION.
- 15. ALL PROPOSED STORM SEWER RUNS ARE PRIVATE.

UTILITY LEGEND

OTILITI	LLOLIND
w w	EV WATER LINE
W W	EX. WATER LINE
0	EX. HYDRANT
\otimes	EX. WATER VALVE
	EX. SANITARY SEWER LINE
\$	EX. SANITARY SEWER MANHOLE
	EX. STORM DRAIN LINE
©	EX. STORM MANHOLE
	EX. STORM STRUCTURE/INLET
	EX. UNDERGROUND FIBER OPTIC LINE
· EUGE ·	EX. UNDERGROUND ELECTRIC LINE
· EOHE ·	EX. OVERHEAD ELECTRIC LINE
*	EX. LIGHT POLE
ELEC	PROPOSED UNDERGROUND ELECTRIC LINE
———— GAS ————	GAS LINE (BY GAS COMPANY)
———— TEL ————	PROPOSED PHONE LINE
	PROPOSED STORM SEWER LINE
	PROPOSED OPEN LID STORM STRUCTURE (PAVEMENT USE NEENAH R-2540) (GRASS USE NEENAH R-4340-B BEEHIVE)
	PROPOSED CLOSED LID STORM STRUCTURE (PAVEMENT USE NEENAH R-1713) (GRASS USE NEENAH R-1786)
	PROPOSED COMBINATION CURB INLET (B6.12 C&G USE NEENAH R-3281-A)
	PROPOSED FLARED END SECTION
——	PROPOSED SANITARY SEWER LINE
	PROPOSED SANITARY MANHOLE
•	PROPOSED STORM/SANITARY CLEANOUT
—— w ——— w ——	PROPOSED WATER LINE
$lackbox{m{(}}m{)}m{)}m{)})$	PROPOSED VALVE VAULT
₩	PROPOSED VALVE BOX
•	PROPOSED FIRE HYDRANT
	PROPOSED LIGHT POLE
	PROPOSED TRANSFORMER PAD

(FOR REFERENCE ONLY)

RIP RAP (SEE DETAILS)

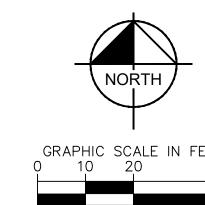


Kimley » Horn

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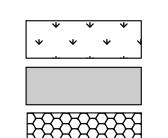
ORIGINAL ISSUE: 10/01/2024 KHA PROJECT NO. 168865042

SHEET NUMBER





EROSION CONTROL LEGEND



——— SF ———

———XXX———

_____XXX_____

TEMPORARY SEEDING (SEE EROSION CONTROL DETAILS)

(SEE EROSION CONTROL NOTE #7) TEMPORARY EROSION CONTROL BLANKET

CE) CONSTRUCTION ENTRANCE (SEE EROSION CONTROL DETAILS)

SF SILT FENCE (SEE EROSION CONTROL DETAILS)

INLET PROTECTION (SEE EROSION CONTROL DETAILS)

(SEE EROSION CONTROL DETAILS) (TO BE DETERMINED BY CONTRACTOR)

TEMPORARY SOIL STOCKPILE

(LD) LIMITS OF DISTURBANCE

EXISTING CONTOURS PROPOSED CONTOURS

TP TREE PROTECTION

EROSION CONTROL SCHEDULE AND SEQUENCING:

I. ROUGH GRADING CONSTRUCTION ENTRANCE/EXIT, SILT FENCE PROTECTION, CONCRETE WASHOUT AREA AND TREE PROTECTION SHALL BE INSTALLED PRIOR TO THE INITIATION OF ROUGH GRADING, AS NEEDED. TEMPORARY EROSION CONTROL MEASURES TO BE INSTALLED UPON COMPLETION OF ROUGH GRADING AND

AS NECESSARY THROUGHOUT CONSTRUCTION.

ALL PRIOR EROSION CONTROL MEASURES INSTALLED II. UTILITY INSTALLATION ABOVE TO BE MAINTAINED AS NECESSARY DURING UTILITY INSTALLATION. STORM STRUCTURE INLET PROTECTION SHALL BE INSTALLED AS STORM DRAINAGE SYSTEM IS CONSTRUCTED.

ALL PRIOR EROSION CONTROL MEASURES INSTALLED III. PAVING ABOVE TO BE MAINTAINED AS NECESSARY DURING PAVING AND THROUGHOUT THE REMAINDER OF THE

IV. FINAL GRADING/SOIL ALL TEMPORARY EROSION CONTROL MEASURES TO BE STABILIZATION / REMOVED AT THE CONCLUSION OF THE PROJECT AS DIRECTED BY THE LOCAL MUNICIPALITY.

NOTE: THE SEQUENCE OF CONSTRUCTION SHOWN ABOVE IS A GENERAL OVERVIEW AND IS INTENDED TO CONVEY THE GENERAL CONCEPTS OF THE EROSION CONTROL DESIGN AND SHOULD NOT BE RELIED UPON FOR CONSTRUCTION PURPOSES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETAILED PHASING AND CONSTRUCTION SEQUENCING NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS INCLUDED IN THESE PLANS. THE CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING IMMEDIATELY, PRIOR TO AND/OR DURING CONSTRUCTION IF ANY ADDITIONAL INFORMATION ON THE CONSTRUCTION SEQUENCE IS NECESSARY. CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPLYING WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND ALL OTHER APPLICABLE LAWS.

CITY OF NAPERVILLE EROSION CONTROL NOTES

- THE CONTRACTOR SHALL MAINTAIN PROPER DRAINAGE AT ALL TIMES DURING THE COURSE OF CONSTRUCTION AND PREVENT STORM WATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS.
- 2. DURING EXTENDED DRY PERIODS, THE CONSTRUCTION AREA(S) MAY NEED TO BE WATERED DOWN TO PREVENT THE BLOWING OF SOIL FROM THE SITE.
- DURING CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE UTILIZED TO MINIMIZE THE TRACKING OF DIRT ONTO THE PUBLIC STREETS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO KEEP PUBLIC STREET PAVEMENT CLEAN OF DIRT AND DEBRIS. ANY DIRT THAT IS TRACKED ONTO THE PUBLIC STREETS SHALL BE REMOVED THE SAME DAY. IF THE AMOUNT TRACKED ON THE PUBLIC STREET IS EXCESSIVE, CLEANING MAY BE REQUIRED MORE FREQUENTLY.
- ALL EROSION CONTROL MEASURES SHALL BE PROPERLY INSTALLED, AS PERMITTED, PRIOR TO ANY LAND DISTURBANCE ACTIVITIES. ALL EROSION CONTROL SHALL BE MAINTAINED UNTIL TURF IS ESTABLISHED.
- ACCEPTABLE PERIMETER EROSION CONTROL INCLUDES SILT FENCE, SILT WORM AND ANY OTHER APPLICATION APPROVED BY THE CITY ENGINEER.
- ALL OPEN GRATE STRUCTURES SHALL HAVE EROSION CONTROL PROTECTION IN ACCORDANCE WITH THE APPROVED EROSION CONTROL PLANS. INLET BASKETS ARE THE PREFERRED METHOD; STRAW BALES SHALL NOT BE USED.
- ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY, AFTER ANY 0.5 INCH RAINFALL, OR MORE FREQUENTLY AS NECESSARY TO MAINTAIN THEIR

IDOT EROSION CONTROL NOTES

- CONTRACTOR TO KEEP PAVEMENT CLEAN OF MUD AND DEBRIS USING SWEEPING/SCRAPING EQUIPMENT TO BE STORED ONSITE.
- PROVIDE VEHICLE WASHOUT FOR VEHICLES ENTERING THE SITE, LOCATED OUTSIDE OF STATE RIGHT-OF-WAY
- ANY PARKWAY DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO
- EXISTING OR BETTER CONDITIONS WITH 4" TOPSOIL, CLASS 2A SEEDING, EROSION CONTROL BLANKET, AND ALL OTHER APPURTENANCES AS NECESSARY TO COMPLETE WORK IN ACCORDANCE WITH APPROVED PLANS AND APPLICABLE SPECIFICATIONS.

EROSION CONTROL NOTES

- CONSTRUCTION ENTRANCE SHALL BE LOCATED SO AS TO PROVIDE THE LEAST AMOUNT OF DISTURBANCE TO THE FLOW OF TRAFFIC IN AND OUT OF THE SITE. ADDITIONALLY, CONSTRUCTION ENTRANCE SHALL BE LOCATED TO COINCIDE WITH THE PHASING OF THE PAVEMENT REPLACEMENT.
- STABILIZATION BY PERMANENT PAVING, DRAINAGE SYSTEM STRUCTURE, OR
- TEMPORARY AND PERMANENT STABILIZATION PRACTICES AND BMP'S SHALL BE INSTALLED AT THE EARLIEST POSSIBLE TIME DURING THE CONSTRUCTION SEQUENCE. AS AN EXAMPLE, PERIMETER SILT FENCE SHALL BE INSTALLED BEFORE COMMENCEMENT OF ANY GRADING ACTIVITIES. OTHER BMP'S SHALL BE SITE STABILIZATION IS ATTAINED. CONTRACTOR SHALL ALSO REFERENCE CIVIL AND LANDSCAPE PLANS SINCE PERMANENT STABILIZATION IS PROVIDED BY LANDSCAPING, THE BUILDING(S), AND SITE PAVING.
- BMP'S HAVE BEEN LOCATED AS INDICATED ON THIS PLAN IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES IN ORDER TO MINIMIZE SEDIMENT TRANSFER. FOR EXAMPLE: SILT FENCES LOCATED AT TOE OF SLOPE
- THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENTATION CONTROL
- ANY MAJOR VARIATION IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THOSE SHOWN ON THE APPROVED PLANS WILL REQUIRE A REVISION AND MUST BE APPROVED BY THE REVIEWING ENGINEER, ENVIRONMENTAL SPECIALIST, OR ARBORIST AS APPROPRIATE. MAJOR REVISIONS MUST BE APPROVED BY THE PLANNING AND DEVELOPMENT DEPARTMENT AND THE DRAINAGE UTILITY DEPARTMENT. MINOR CHANGES OR ADDITIONAL CONTROL MEASURES TO BE MADE AS FIELD REVISIONS TO THE EROSION AND SEDIMENTATION CONTROL PLAN MAY BE REQUIRED BY THE ENVIRONMENTAL INSPECTOR DURING THE COURSE OF CONSTRUCTION TO CORRECT CONTROL INADEQUACIES AT NO ADDITIONAL
- CONTRACTOR SHALL PLACE EROSION CONTROL BLANKET (NORTH AMERICAN GREEN S150BN OR APPROVED EQUAL) ON ALL SITE AREAS WITH SLOPES GREATER THAN 4:1, AND IN THE BOTTOM AND SIDE SLOPES OF ALL SWALES.
- PRIOR TO FINAL ACCEPTANCE, HAUL ROADS AND WATERWAY CROSSINGS CONSTRUCTED FOR TEMPORARY CONTRACTOR ACCESS MUST BE REMOVED, ACCUMULATED SEDIMENT REMOVED FROM THE WATERWAY AND THE AREA RESTORED TO THE ORIGINAL GRADE AND REVEGETATED. ALL LAND CLEARING
- ROLLS MUST BE REPAIRED. REPLACED OR SUPPLEMENTED WITH EFFECTIVE ONE-THIRD THE HEIGHT OF THE DEVICE. THESE REPAIRS MUST BE MADE
- ALL SEDIMENT DELTAS AND DEPOSITS MUST BE REMOVED FROM SURFACE WATERS, DRAINAGE WAYS, CATCH BASINS AND OTHER DRAINAGE SYSTEMS. ALL AREAS WHERE SEDIMENT REMOVAL RESULTED IN EXPOSED SOIL MUST BE RESTABILIZED. THE REMOVAL AND STABILIZATION MUST TAKE PLACE IMMEDIATELY. BUT NO MORE THAN 7 DAYS AFTER THE RAINFALL EVENT UNLESS PRECLUDED BY LEGAL, REGULATORY OR PHYSICAL ACCESS CONSTRAINTS. ALL REASONABLE EFFORTS MUST BE USED TO OBTAIN ACCESS. ONCE ACCESS IS OBTAINED, REMOVAL AND STABILIZATION MUST TAKE PLACE IMMEDIATELY, BUT NO MORE THAN 7 DAYS LATER. CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL APPROPRIATE AUTHORITIES AND RECEIVING THE APPLICABLE PERMITS PRIOR TO CONDUCTING ANY WORK.
- 12. ACCUMULATIONS OF TRACKED AND DEPOSITED SEDIMENT MUST BE REMOVED FROM OFF-SITE PAVED SURFACES WITHIN 24 HOURS OR SOONER IF REQUIRED. SEDIMENT TRACKING MUST BE MINIMIZED BY THE APPROPRIATE MANAGEMENT PRACTICE, LIKE A DEDICATED SITE EXIT WITH AN AGGREGATE SURFACE OR DESIGNATED OFFSITE PARKING AREA. CONTRACTOR IS RESPONSIBLE FOR STREET SWEEPING AND/OR SCRAPING IF YOUR PRACTICES ARE NOT ADEQUATE TO PREVENT SEDIMENT FROM BEING TRACKED FROM THE SITE.
- 3. SURFACE WATERS, DRAINAGE DITCHES AND CONVEYANCE SYSTEMS MUST BE INSPECTED FOR SEDIMENT DEPOSITS.
- THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL EROSION CONTROL MEASURES AS INDICATED ON THIS SHEET IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED BY KIMLEY-HORN AND ASSOCIATES, INC. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING THE PROVISIONS INDICATED IN THE SWPPP, INCLUDING EROSION CONTROL MEASURES AND INSPECTION FREQUENCY, AS REQUIRED BY THE IEPA NPDES PHASE II PERMIT PROGRAM REQUIREMENTS.
- SOIL STOCKPILES SHALL NOT BE LOCATED IN A DRAINAGEWAY, FLOOD PLAIN AREA OR A DESIGNATED BUFFER, UNLESS OTHERWISE APPROVED, UNDER SPECIFIC CONDITIONS TO BE ESTABLISHED BY THE DIRECTOR OR
- FINAL STABILIZATION IS ACHIEVED.TRAPPED SEDIMENT AND OTHER DISTURBED SOILS RESULTING FROM TEMPORARY MEASURES SHALL BE PROPERLY DISPOSED
- 19. WATER REMOVED FROM TRAPS, BASINS, AND OTHER WATER HOLDING DEPRESSIONS OR EXCAVATIONS MUST FIRST PASS THROUGH A SEDIMENT CONTROL AND/OR FILTRATION DEVICE. WHEN DEWATERING DEVICES ARE USED, DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION.
- 20. SITE STABILIZATION REQUIREMENTS ARE AS FOLLOWS:
 - WHERE THE INITIATION OF STABILIZATION MEASURE BY THE 7TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES ON A PORTION OF THE SITE IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURE SHALL BE INITIATED AS SOON AS PRACTICABLE.
 - WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 14 DAYS FROM WHEN ACTIVITIES CEASED, (E.G. THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN 14 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE 7TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY CEASED.

POST CONSTRUCTION STORM WATER POLLUTION CONTROL MEASURES INCLUDE

INSTALLED AS SOON AS PRACTICABLE AND SHALL BE MAINTAINED UNTIL FINAL

AND INLET PROTECTION FOR INLETS RECEIVING SEDIMENT FROM SITE RUN-OFF

COST TO THE OWNER.

SHALL BE DISPOSED OF IN APPROVED SPOIL DISPOSAL SITES.

PERMANENT, FINAL PLANT COVERING OR STRUCTURES SHALL BE INSTALLED PRIOR TO FINAL ACCEPTANCE.

10. ALL CONTROL DEVICES THAT FUNCTION SIMILARLY TO SILT FENCE OR FIBER CONTROLS WHEN THEY BECOME NONFUNCTIONAL OR THE SEDIMENT REACHES WITHIN 24 HOURS OF THE RAINFALL EVENT OR AS SOON AS FIELD CONDITIONS

- 15. PUMPING SEDIMENT LADEN WATER INTO ANY STORMWATER FACILITY THAT IS NOT DESIGNATED TO BE A SEDIMENT TRAP, DRAINAGEWAY, OR OFFSITE AREA EITHER DIRECTLY OR INDIRECTLY WITHOUT FILTRATION IS PROHIBITED.
- STOCKPILES TO REMAIN IN PLACE FOR MORE THAN THREE DAYS SHALL BE PROVIDED WITH SESC MEASURES. MATERIAL IS TO BE HAULED OFF IMMEDIATELY AND LEGALLY IF NO STOCKPILE IS TO REMAIN IN PLACE.
- 18. ALL TEMPORARY SESC MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER OF PRIOR TO PERMANENT STABILIZATION.



≫Horn

Kimley

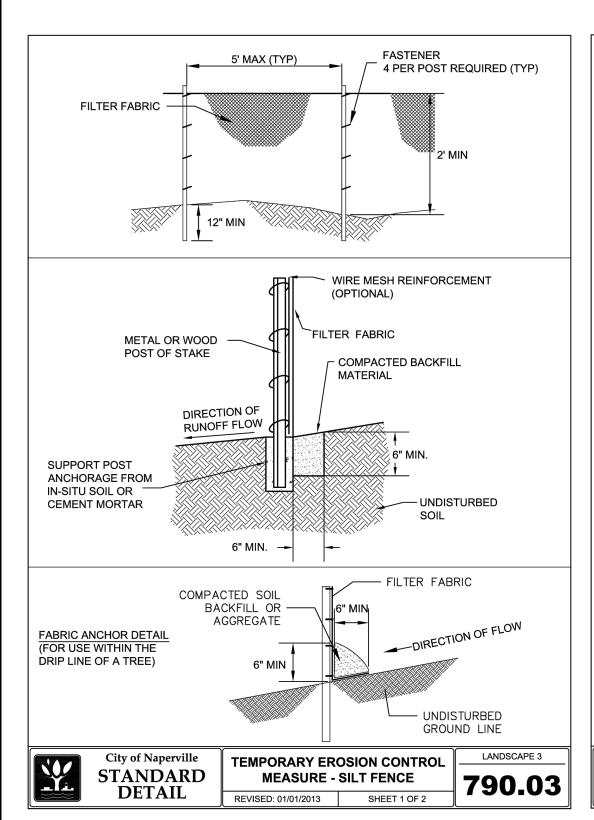
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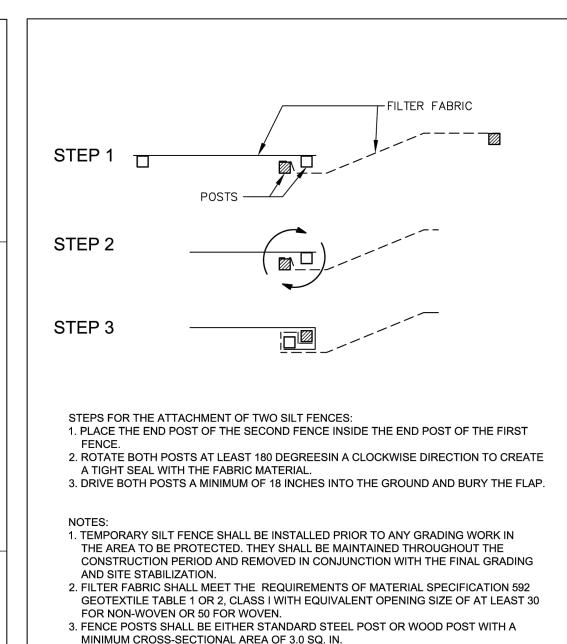
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4. DEPENDING UPON THE CONFIGURATION, ATTACH FABRIC AND WIRE MESH WITH HOG

TEMPORARY EROSION CONTROL

MEASURE - SILT FENCE

SHEET 2 OF 2

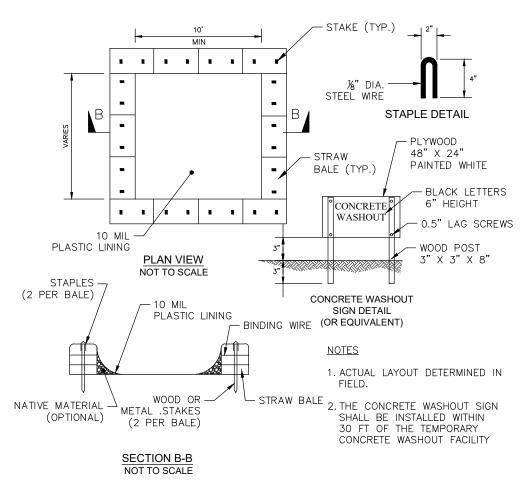
LANDSCAPE 3

790.03

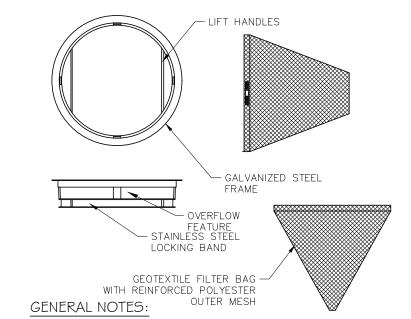
RINGS, STEEL POST WITH TIE WIRES, WOOD POST WITH NAILS.

STANDARD

DETAIL





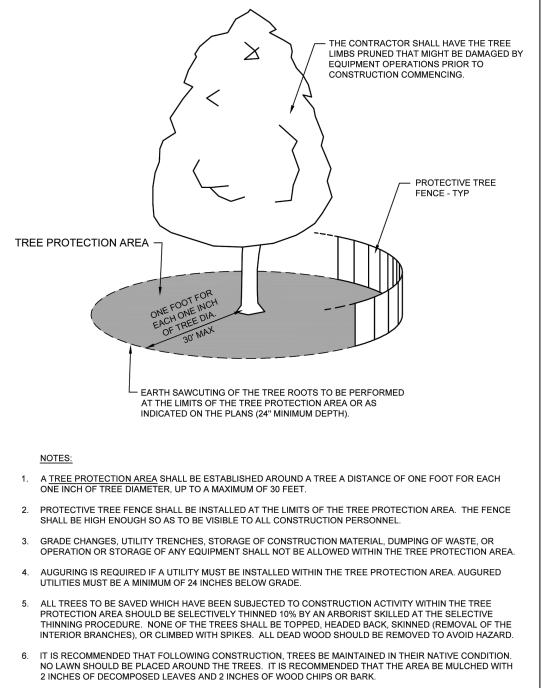


ALL PRODUCTS MANUFACTURED BY INLET AND PIPE PROTECTION, INC OR APPROVED EQUAL.

NOTE: INLET FILTERS ARE SLIGHTLY SMALLER THAN THE INLET GRATE SIZES. WHEN IDENTIFYING OR SPECIFYING FILTERS/CASTINGS PLEASE REFER TO THE DIAMETER "D" OR WIDTH "W" AND HEIGHT "H" OF FILTER FRAMES OR CASTING GRATES. YOU MAY ALSO REFER TO OUR CASTING CROSS REFERENCE GUIDE FOR IDOT STANDARDS IDOT TYPE 1 ROUND INLET FILTER DEPICTED

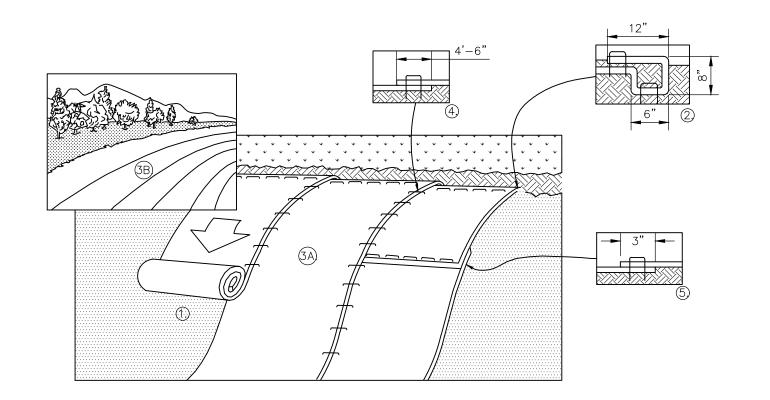
NOTE: ROUND AND SQUARE INLET FILTERS AVAILABLE FOR MOST NEENAH AND EAST JORDAN BEEHIVE, ROLL CURB AND CURB BOX FRAME TYPES ALL IPP INLET FILTERS TO CONFORM TO IDOT SPECIFICATIONS AS OUTLINED IN ARTICLE 1081.15 OF IDOT'S STANDARD SPECIFICATIONS GUIDE.

INLET PROTECTION



	All
	MIN. 0.5% GRADE DOWN FROM PUBLIC STREET.
cutter to	
HARD SURFER PORD	50. MW
10" MINIMUM	
FX PAVEMENT OR	





1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH AS SHOWN IN WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH AS SHOWN IN DETAIL 2. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.

3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS PER MANUFACTURES RECOMMENDATION.

4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH MINIMUM 6" OVERLAP. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.

5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH. 6. PLACE STAPLES/STAKES PER MANUFACTURER'S RECOMMENDATION FOR THE APPROPRIATE SLOPE BEING APPLIED.

1. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS. 2. FOLLOW EROSION CONTROL TECHNOLOGY COUNCIL SPECIFICATION FOR PRODUCT SELECTION. 3. PERVIOUS LAND WITH SLOPES RUNNING GREATER THAN OR EQUAL TO 4:1 SHALL CONTAIN SLOPE STABILIZATION BLANKET

EROSION CONTROL BLANKET (SLOPE INSTALLATION)

STABILIZATION TYPE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ост.	NOV.	DEC.
PERMANENT SEEDING			● A			*	*		-			
DORMANT SEEDING	В		-								В	
TEMPORARY SEEDING			<u>C</u>			-	D		-			
SODDING			<u>E</u> **						-			
MULCHING	F											

- A KENTUCKY BLUEGRASS 90 LBS/ACRE MIXED WITH PERENNIAL RYEGRASS 30 LBS/ACRE
- C SPRING OATS 100 LBS/ACRE WHEAT OR CEREAL RYE
 - * WATERING NEEDED DURING JUNE AND JULY ** WATERING NEEDED FOR 2 TO 3 WEEKS
- B KENTUCKY BLUEGRASS 135 SOD LBS/ACRE MIXED WITH PERENNIAL F STRAW MULCH 2 TONS/ACRE RYEGRASS 45 LBS/ACRE + 2 TONS STRAW MULCH/ACRE
 - **SEEDING CHART**

STABILIZATION TYPE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ост.	NOV.	DEC.
PERMANENT SEEDING			● A			*	*		-	-		
DORMANT SEEDING	В		-								В	
TEMPORARY SEEDING			<u>C</u>			-	D		-			
SODDING			<u>E</u> **						-			
MULCHING	F											-
MULCHING	F											-

150 LBS/ACRE

AFTER APPLYING SOD

9#

CASI

C-402

ORIGINAL ISSUE:

10/01/2024

KHA PROJECT NO.

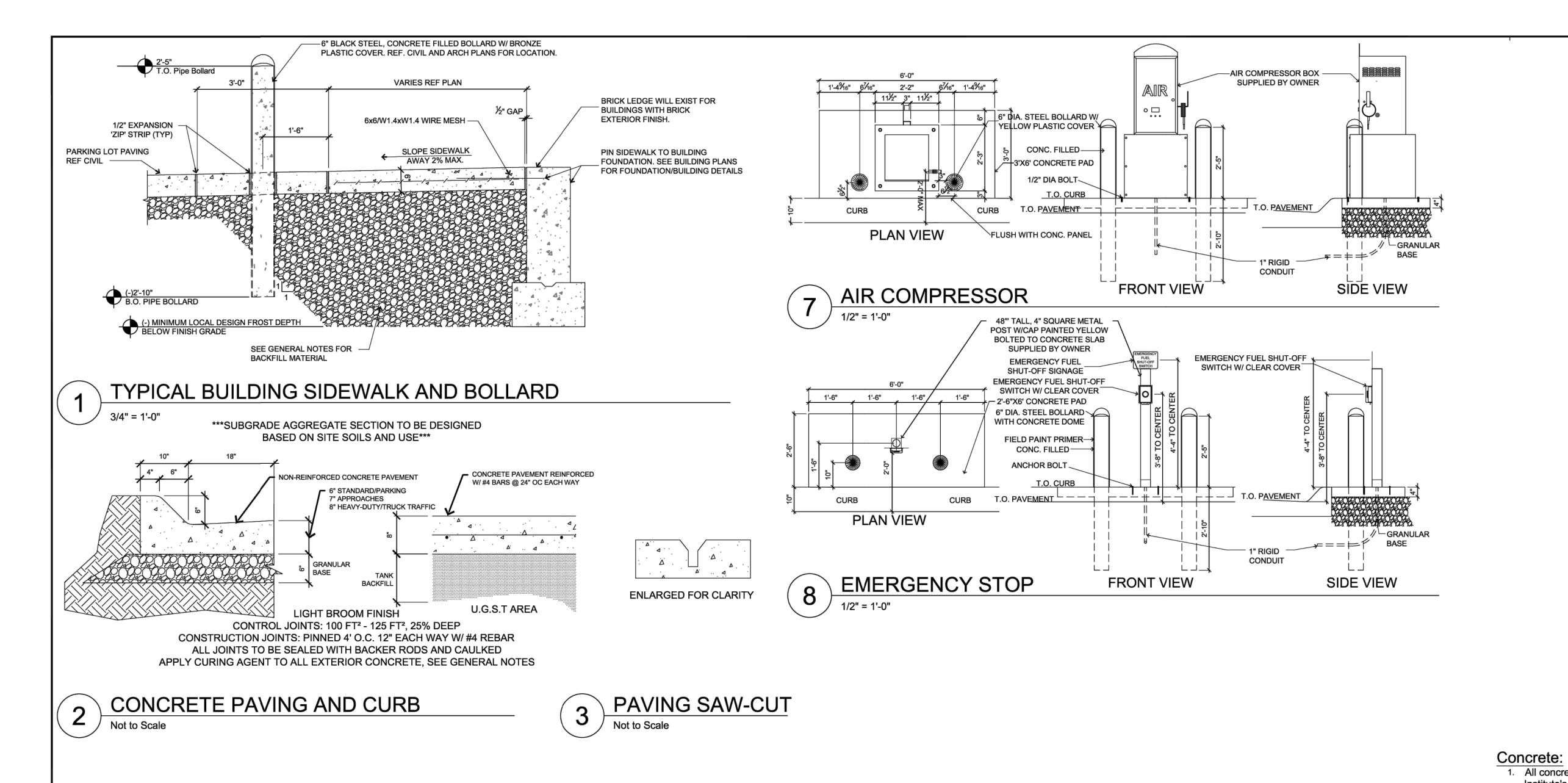
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SHEET NUMBER

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City of Naperville TREE PROTECTION **STANDARD DETAIL**

EX. PAVEMENT OR 4"-6" CLEAN STONE



1. All concrete and reinforcing work shall conform to the latest edition of the American Concrete Institute's "Standard Building Code Requirements for Reinforced Concrete," (ACI 318) and "Specifications for Structural Concrete for Buildings," (ACI 301).

2. Concrete shall use type II cement. Concrete mix designs shall meet the following requirements: MINIMUM MAXIMUM

GENERAL NOTES

28-DAY f'c W/C RATIO SLUMP ENTRAIN. 4,000 psi 0.42 4" ± 1" 6% ± 1%

If Contractor desires to increase slump above allowable limits to facilitate placement or pumping. this shall be done utilizing a superplasticizer approved by the Ready Mix Designer at a dosage rate

provided by Ready Mix Designer. 3. The Contractor shall reject any concrete that exceeds the slump limits noted above (prior to adding superplasticizer) or concrete that can not be placed within ninety (90) minutes of batch time.

4. No aluminum shall be placed in concrete. 5. All concrete is reinforced unless specifically noted as Unreinforced. Reinforce all concrete not

otherwise shown with the same reinforcing as in similar sections or areas.

6. During hot weather (80 degrees F and above), the Contractor shall comply with the recommendations ACI-305 "Hot Weather Concrete". During cold weather (40 degrees and below), the Contractor shall comply with the recommendations of ACI-306 "Cold Weather Concreting".

7. The concrete mix designs are to be submitted as a formal submittal to the Owner for acceptance PRIOR to concrete being delivered to the site.

8. Verify with local authorities the required thickness of poured concrete for approaches and parking

9. Contractor to spray apply 'SpecChem Cure Shield' or 'Certi-Vex Guard Clear AIM' to all exterior concrete surfaces per manufacturer instructions. Use Swissmex DS-8350 Acetone Sprayer, or equivalent. Casey's recommended application rate is 200 sq.ft. per gallon. Contractor to ensure site install is appropriate. Substitute products must be pre-approved by Casey's.

Sub-Base And Aggregate:

Exterior exposed concrete

1. Sub-base Course Under Exterior Concrete Paved Surfaces: Spread and compact sub-base in 6"-9" lifts compacted to 98% Standard Proctor.

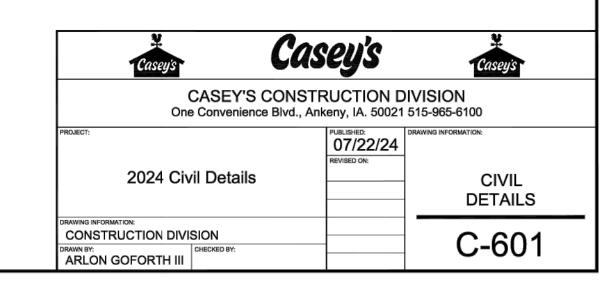
2. Aggregate backfill as follows or approved equal by Casey's:

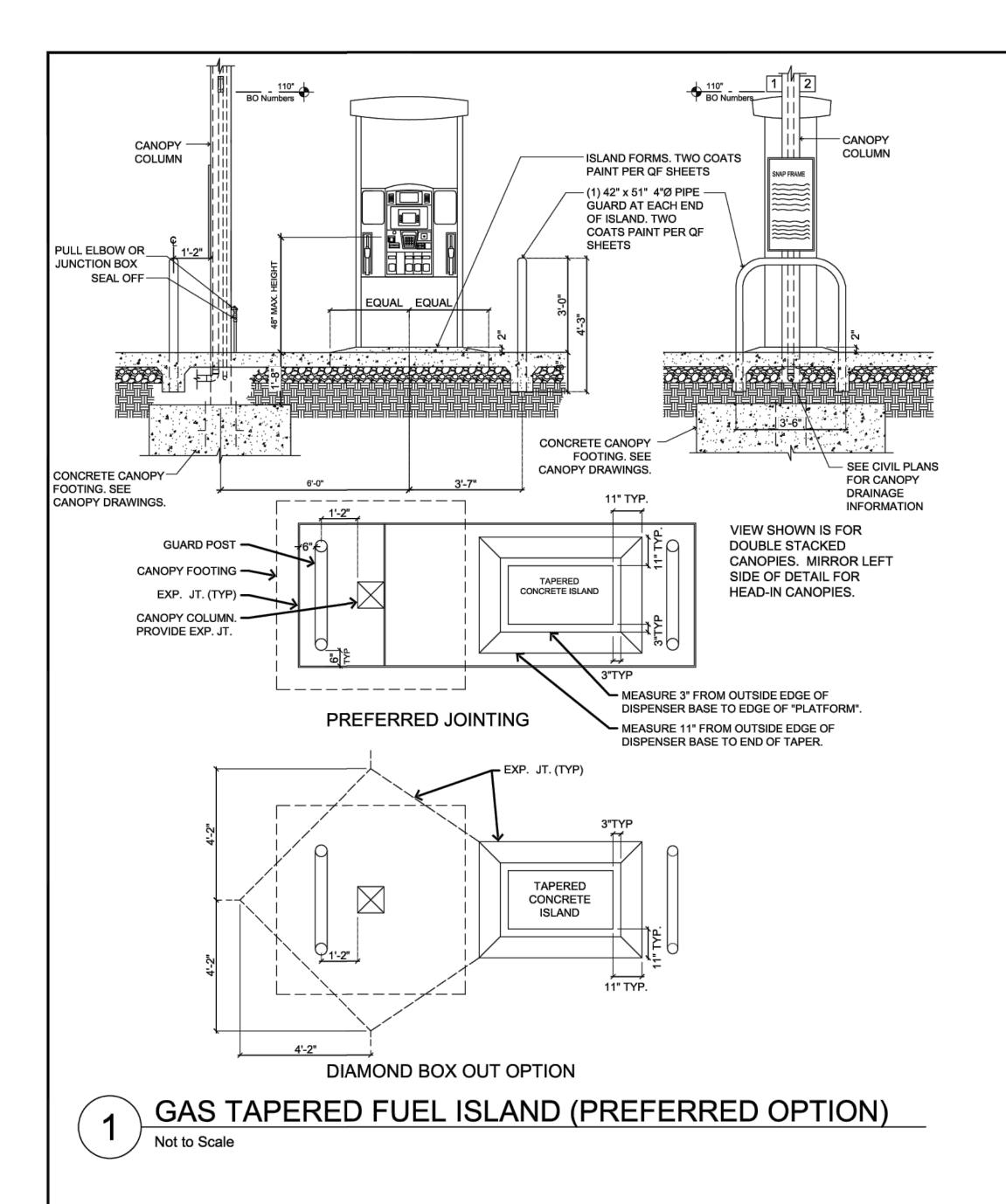
2.1. Building Slab - 3/4" to 1-1/2" max. clean stone

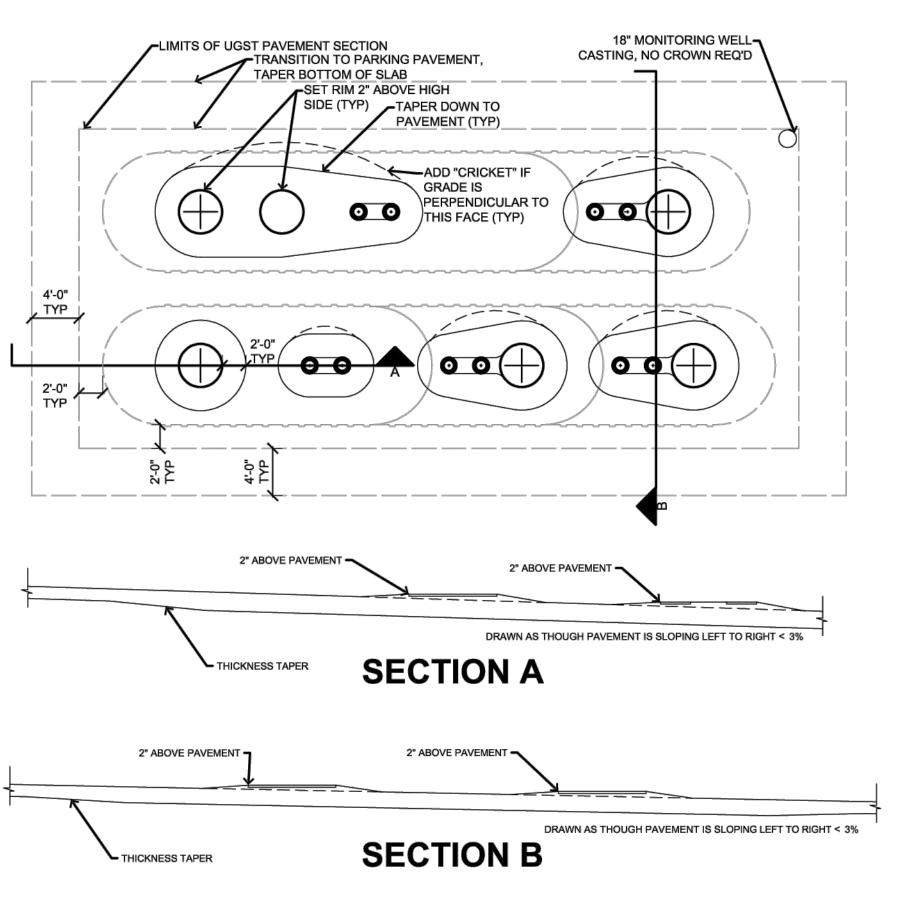
2.2. Building Sidewalk - 3/4" to 1-1/2" max. clean stone 2.3. Pavement - 1" to 1-1/2" max. stone with fines

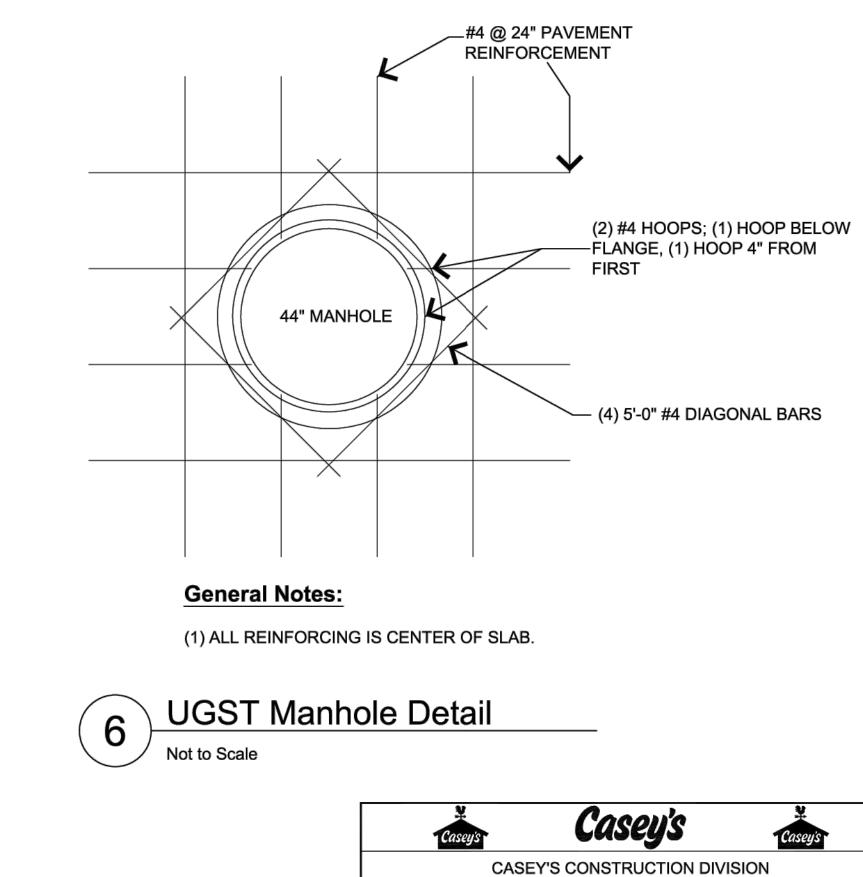
2.4. Sidewalk Not Adjacent to Building - Same as pavement

2.5. Tank pit - See QF sheets









One Convenience Blvd., Ankeny, IA. 50021 515-965-6100

2024 Civil Details

DRAWING INFORMATION:
CONSTRUCTION DIVISION

ARLON GOFORTH III

PUBLISHED: 07/22/24

CIVIL DETAILS



STORM MANHOLE-

REVISED: 08/01/2018 SHEET 1 OF 1

TYPE A

STANDARD

DETAIL

22-1/4"

1. FRAME AND GRATE SHALL BE

2. ALL CASTING SHALL BE SHOP

NEENAH R-3525-L. EAST JORDAN 5120.

OR EQUAL APPROVED BY THE CITY

PAINTED WITH AN ASPHALTIC BASE

3. ALL CASTINGS SHALL INCLUDE "DUMP NO WASTE. DRAINS TO RIVER"

STANDARD

DETAIL

14-1/2"

CAST FRAME AND GRATE

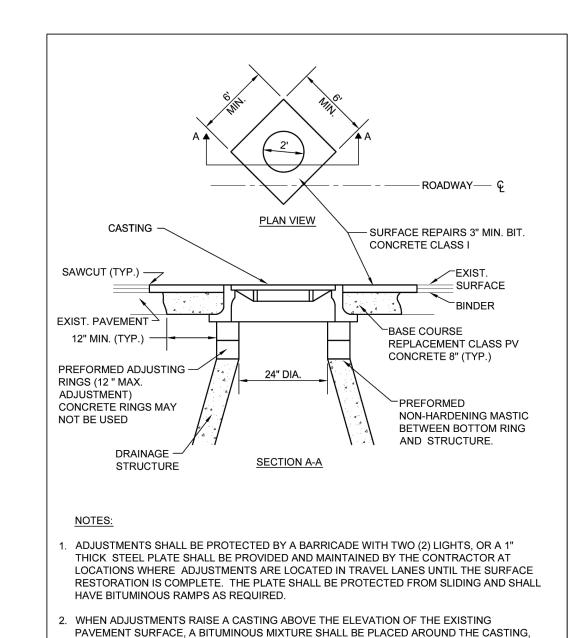
FRAME & GRATE FOR B-6.12

CURB & GUTTER (DEPRESSED)

29-1/4"

290.12

STORM 1



TRANSITIONED A DISTANCE OF 1' HORIZONTAL FOR EACH INCH OF VERTICAL DISTANCE

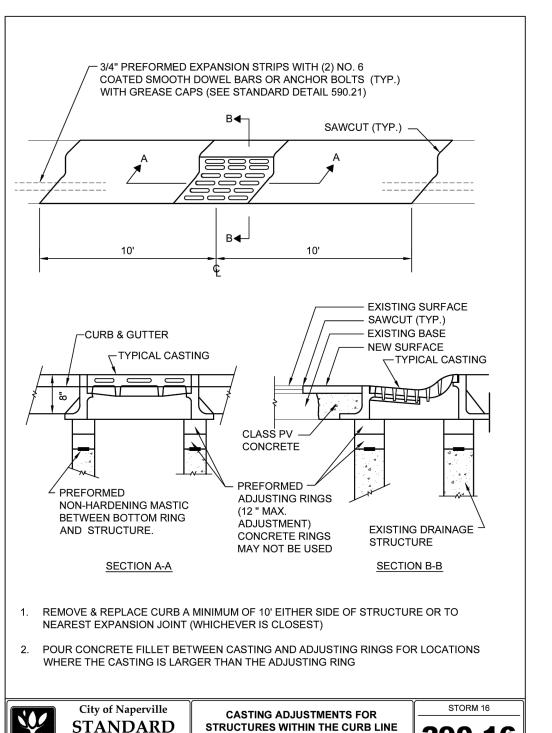
CASTING ADJUSTMENTS FOR

STRUCTURES IN PAVED AREAS

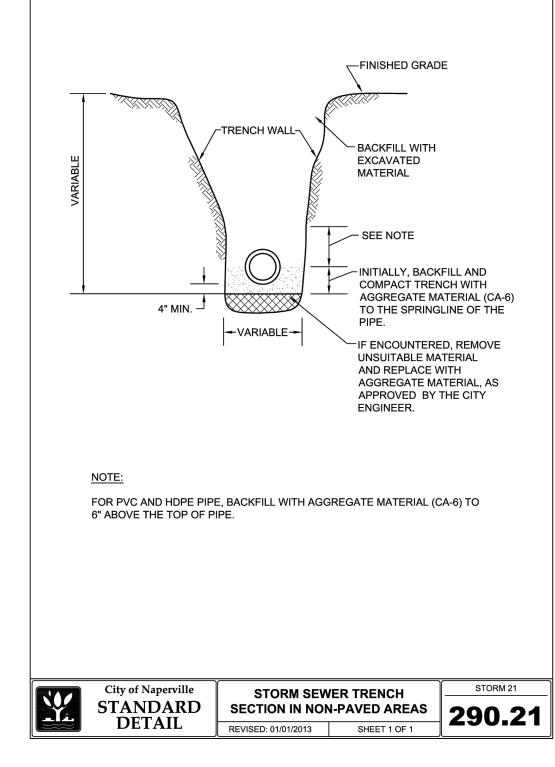
ABOVE THE EXISTING PAVEMENT. SUCH RAMPS SHALL BE MAINTAINED BY THE

CONTRACTOR UNTIL THE COMPLETION OF THE SURFACE RESTORATION.

STANDARD



DETAIL



-SUBGRADE ELEVATION

BACKFILL TRENCH TO

-- INITIALLY, BACKFILL AND COMPACT TRENCH WITH

AGGREGATE MATERIAL (CA-6)

TO THE SPRINGLINE OF THE

-IF ENCOUNTERED, REMOVE

AGGREGATE MATERIAL, AS

STORM 20

APPROVED BY THE CITY

UNSUITABLE MATERIAL

AND REPLACE WITH

ENGINEER

ELEVATION WITH AGGREGATE

MATERIAL (CA-6

SUBGRADE

TRENCH WALL-

→VARIABLE →

1. TRENCH BACKFILL MATERIAL SHALL BE COMPACTED IN ACCORDANCE WITH

SECTION 550.07 OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND

PROPOSED ROADWAY SUBGRADE, AND WHEREVER THE INNER EDGE OF THE

STORM SEWER TRENCH

SECTION IN PAVED AREAS

TRENCH IS CLOSER THAN 2' TO THE EDGE OF THE PROPOSED PAVEMENT,

2. THIS DETAIL SHALL BE USED WHEREVER THE TRENCH IS MADE IN THE

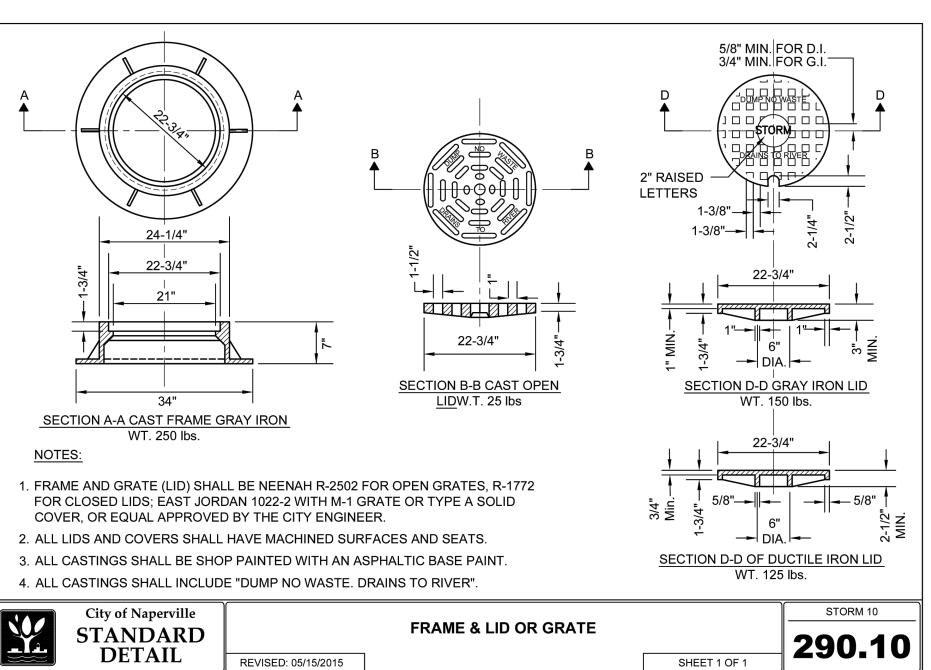
4" MIN. -

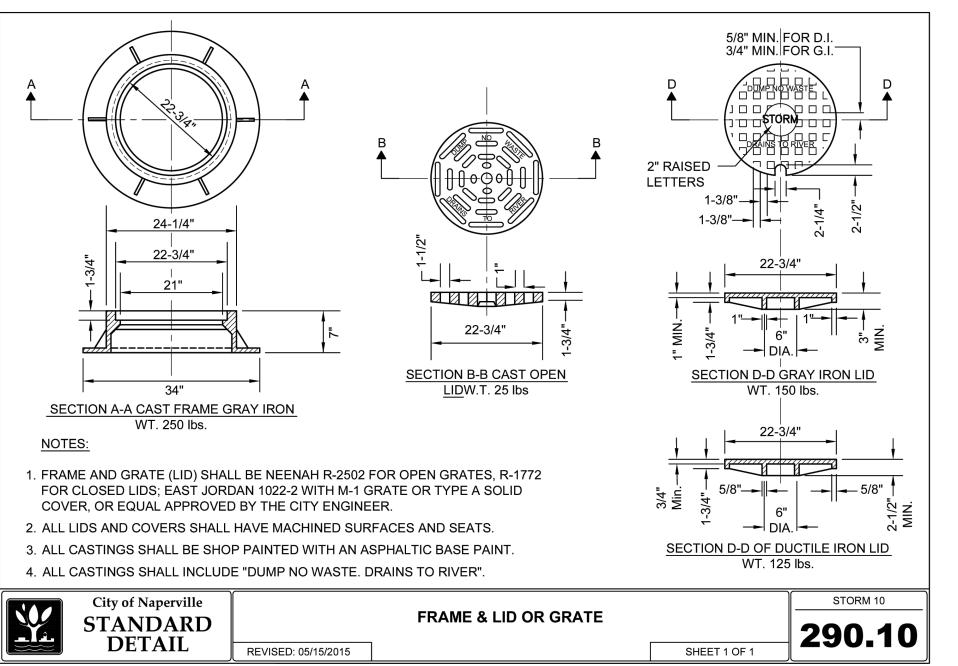
BRIDGE CONSTRUCTION.

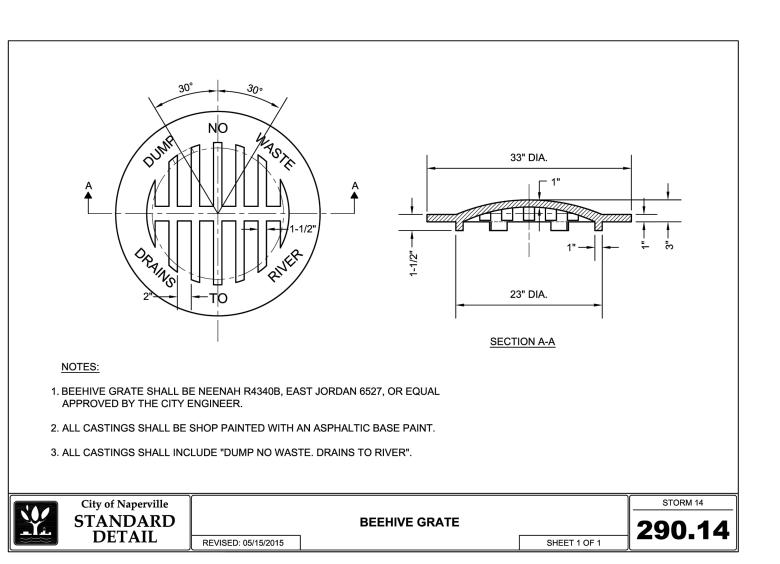
STANDARD

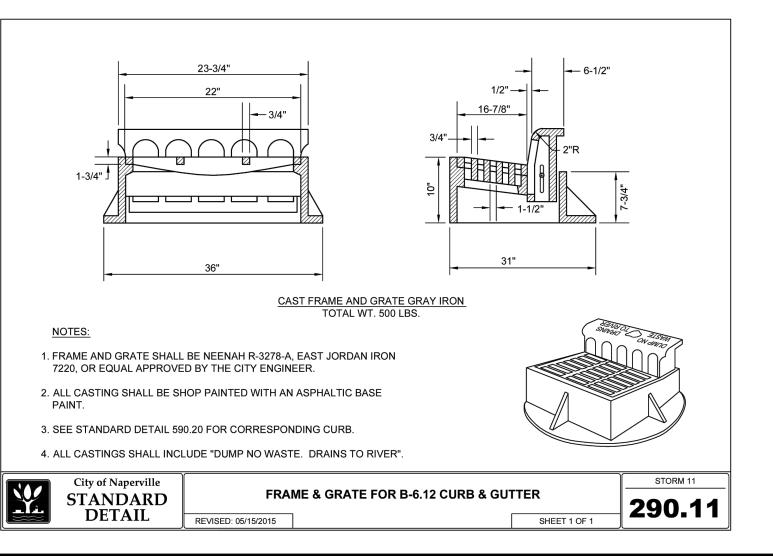
DETAIL

CURB AND GUTTER, AND SIDEWALK.









CITY OF NAPERVILLE STORM SEWER NOTES

- 1. THE FOLLOWING MATERIALS WILL BE PERMITTED FOR STORM SEWER AND PIPE CULVERTS. WHERE A PARTICULAR MATERIAL IS SPECIFIED IN THE PLANS OR SPECIAL PROVISIONS, NO OTHER KIND OF MATERIAL WILL BE PERMITTED REINFORCED CONCRETE PIPE SHALL CONFORM TO ASTM DESIGNATION C 76, CLASSES I, II, III, IV OR V. BITUMINOUS JOINTS SHALL CONFORM TO ASTM DESIGNATIONS C 14 OR C 76 AS MAY BE APPLICABLE. BITUMINOUS MATERIAL SHALL CONSIST OF A HOMOGENEOUS BLEND OF BITUMEN, INERT FILLER, AND SUITABLE SOLVENT APPROVED BY THE CITY ENGINEER. RUBBER GASKET JOINTS SHALL CONFORM TO ASTM C 433.
- REINFORCED CONCRETE PIPE SHALL ALSO BE PERMITTED AS ROUND, ELLIPTICAL, OR BOX SHAPED OR AS REINFORCED CONCRETE ARCH CULVERT. . NON-REINFORCED CONCRETE PIPE SHALL BE ALLOWED FOR PIPES WITH A 10 INCH OR SMALLER DIAMETER. NON-REINFORCED CONCRETE PIPE SHALL CONFORM TO ASTM DESIGNATION C 14, CLASS 3. BITUMINOUS JOINTS SHALL CONFORM TO ASTM DESIGNATIONS C 14 OR C 76 AS MAY BE APPLICABLE. BITUMINOUS MATERIAL
- SHALL CONSIST OF A HOMOGENEOUS BLEND OF BITUMEN, INERT FILLER, AND SUITABLE SOLVENT APPROVED BY THE CITY ENGINEER. RUBBER GASKET JOINTS SHALL CONFORM TO ASTM C 433. 4. DUCTILE IRON PIPE SHALL CONFORM TO ANSI A 21.51 (AWWA C-151), CLASS THICKNESS DESIGNED PER ANSI A
- 21.50 (AWWA C-150), TAR (SEAL) COATED AND CEMENT LINED PER ANSI A 21.4 (AWWA C-104), WITH MECHANICAL OR RUBBER RING (SLIP SEAL OR PUSH ON) JOINTS. ALL DUCTILE IRON PIPE SHALL BE WRAPPED WITH POLYETHYLENE
- 5. POLYVINYL CHLORIDE (PVC) PIPE SHALL CONFORM TO ASTM D 3034, TYPE PSM. THE MINIMUM STANDARD DIMENSION RATIO (SDR) SHALL BE 26. THE PIPE SHALL BE MADE OF PVC PLASTIC HAVING A MINIMUM CELL CLASSIFICATION OF 12454-C. AND SHALL HAVE A MINIMUM PIPE STIFFNESS OF FORTY-SIX (46) LBS. PER INCH (317KPA). JOINTS FOR PVC PIPE SHALL BE FLEXIBLE ELASTOMETRIC SEALS PER ASTM D 3212
- 6. HIGH—DENSITY POLYETHYLENE (HDPE) PIPE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 252 AND M 294. PIPE AND FITTINGS SHALL BE MADE FROM VIRGIN PE COMPOUNDS WHICH CONFORM TO THE REQUIREMENTS OF CELL CLASS 324420C AS DEFINED AND DESCRIBED IN ASTM D 3350. RUBBER GASKET JOINTS SHALL BE USED. 7. FULLY GALVANIZED CORRUGATED STEEL PIPE MAY BE USED FOR RESIDENTIAL DRIVEWAY CROSSINGS ONLY WHEN
- A DITCH SECTION IS PRESENT. THE MINIMUM CULVERT SIZE IS 12"DIAMETER. 8. BEDDING, OTHER THAN CONCRETE EMBEDMENT, SHALL CONSIST OF GRAVEL, CRUSHED GRAVEL, OR CRUSHED STONE 1/4 INCH TO 1 INCH IN SIZE. AS A MINIMUM, THE MATERIAL SHALL CONFORM TO THE REQUIREMENTS
- OF IDOT STANDARD SPECIFICATIONS. THE GRADATION SHALL CONFORM TO GRADATION CA-7 OR CA-11 OF THE STANDARD SPECIFICATIONS. 9. BACKFILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF IDOT STANDARD SPECIFICATIONS. THE
- GRADATION SHALL CONFORM TO GRADATION CA-6 OF THE STANDARD SPECIFICATIONS. 10. JOINTS CONNECTING DISSIMILAR PIPE MATERIALS SHALL BE MADE WITH SEWER CLAMP NON-SHEAR TYPE COUPLINGS: CASCADE CSS, ROMAC LSS, FERNCO, INC. SHEAR RING, OR APPROVED EQUAL. WHEN AVAILABLE, A STANDARD JOINT WITH A TRANSITION GASKET MAY BE USED. THE NAME OF THE MANUFACTURER, CLASS, AND DATE OF ISSUE SHALL BE CLEARLY IDENTIFIED ON ALL SECTIONS OF PIPE. THE CONTRACTOR SHALL ALSO SUBMIT BILLS OF LADING, OR OTHER QUALITY ASSURANCE DOCUMENTATION WHEN REQUESTED BY THE CITY
- 11. MANHOLES FOR STORM SEWERS SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES AND SHALL BE CONSTRUCTED OF PRECAST CONCRETE UNITS IN ACCORDANCE WITH ASTM C478-05 (OR LATEST EDITION) AND SHALL CONFORM TO THE CITY OF NAPERVILLE STANDARD DETAIL. ALL MANHOLES SHALL BE WATER-TIGHT.
- ALL VISIBLE LEAKS SHALL BE SEALED IN A MANNER ACCEPTABLE TO THE CITY ENGINEER. 12. MANHOLES SHALL BE FURNISHED WITH A SELF-SEALING FRAME AND SOLID COVER (EAST JORDAN IRON WORKS 1022 WITH TYPE A SOLID COVER, OR APPROVED EQUAL) WITH THE WORD "STORM" IMPRINTED ON THE COVER IN RAISED LETTERS. ALL FRAMES AND LIDS SHALL MEET OR EXCEED AASHTO H-20 LOADING SPECIFICATIONS. FRAMES SHALL BE SHOP PAINTED WITH ASPHALTIC BASE PAINT. BOTH THE MANHOLE FRAME AND COVER SHALL HAVE MACHINED HORIZONTAL AND VERTICAL BEARING SURFACES. INVERTED MANHOLE FRAMES ARE NOT ALLOWED. PICK HOLES SHALL NOT CREATE OPENINGS IN THE MANHOLE COVER.
- 13. MANHOLE STEPS ON MAXIMUM 16 INCH CENTER SHALL BE FURNISHED WITH EACH MANHOLE, SECURELY ANCHORED IN PLACE. TRUE TO VERTICAL ALIGNMENT, IN ACCORDANCE WITH THE NAPERVILLE STANDARD DETAILS. STEPS SHALL BE COPOLYMER POLYPROPYLENE REINFORCED WITH 1/2 INCH A615/A615M-05A (OR LATEST EDITION) GRADE 60 STEEL REINFORCEMENT, MEETING OR EXCEEDING ASTM C 478-05 (OR LATEST EDITION) AND OSHA STANDARDS.
- 14. CATCH BASINS AND INLETS SHALL HAVE A MINIMUM INSIDE DIAMETER OF 24 INCHES AND SHALL BE CONSTRUCTED OF PRECAST CONCRETE UNITS IN ACCORDANCE WITH ASTM C478-05 (OR LATEST EDITION) AND SHALL CONFORM TO THE CITY OF NAPERVILLE STANDARD DETAIL. ALL CATCH BASINS AND INLETS SHALL BE WATER-TIGHT AT ALL POINTS BELOW GRADE. ALL VISIBLE LEAKS SHALL BE SEALED IN A MANNER ACCEPTABLE TO THE CITY ENGINEER.CATCH BASINS AND INLETS SHALL BE FURNISHED WITH A FRAME AND GRATE BASED UPON THE LOCATION OF THE INSTALLATION AS LISTED BELOW. ALL FRAMES AND GRATES SHALL MEET OR EXCEED AASHTO H-20 LOADING SPECIFICATIONS. FRAMES SHALL BE SHOP PAINTED WITH ASPHALTIC BASE PAINT. ALL STORM SEWER LIDS AND GRATES SHALL BE CAST WITH 'DUMP NO WASTE. DRAINS TO RIVER." 14.1. PAVEMENT: EAST JORDAN IRON WORKS 1022 FRAME WITH TYPE M1 RADIAL FLAT GRATE, OR
- APPROVED EQUAL. 14.2. BARRIER CURB AND GUTTER: EAST JORDAN IRON WORKS 7220 FRAME WITH TYPE M1 GRATE AND 11 CURB BOX, OR APPROVED EQUAL.
- 14.3. DEPRESSED CURB: EAST JORDAN IRON WORKS 5120 FRAME AND GRATE, OR APPROVED EQUAL. MOUNTABLE CURB: EAST JORDAN IRON WORKS 7525 FRAME AND GRATE, OR APPROVED EQUAL. NON-PAVED AREAS: EAST JORDAN IRON WORKS 6527 BEEHIVE GRATE, OR APPROVED EQUAL. ALTERNATELY, IN AREAS WHERE THERE IS THE LIKELIHOOD OF PEDESTRIAN TRAFFIC, EAST
- IRON WORKS 1022 FRAME WITH TYPE M1 RADIAL FLAT GRATE, OR APPROVED EQUAL MAY BE USED. 15. ALL STEEL CASING PIPE SHALL BE BITUMINOUS COATED, A MINIMUM OF 30 MILS THICKNESS INSIDE AND OUT, SHALL BE OF LEAK PROOF CONSTRUCTION AND CAPABLE OF WITHSTANDING THE ANTICIPATED LOADINGS. THE MINIMUM WALL THICKNESS FOR THE CASING PIPE SHALL BE IN ACCORDANCE WITH TABLE 200-1. THE STEEL CASING PIPE SHALL HAVE MINIMUM YIELD STRENGTH OF 35,000 PSI AND SHALL MEET THE REQUIREMENTS OF A139/A139M-04 (OR LATEST EDITION) GRADE B RING DEFLECTION SHALL NOT EXCEED 2% OF THE NOMINAL DIAMETER. THE STEEL CASING PIPE SHALL BE DELIVERED TO THE JOBSITE WITH BEVELED ENDS TO FACILITATE
- 16. ALL PIPE SHALL BE LAID TRUE TO LINE AND GRADE. DIRT AND OTHER FOREIGN MATERIAL SHALL BE PREVENTED FROM ENTERING THE PIPE OR PIPE JOINT DURING HANDLING OR LAYING OPERATIONS.ALL STORM SEWER PIPE TO PIPE CONNECTIONS SHALL BE SEALED WITH BUTYL MASTIC TO ENSURE WATER TIGHTNESS. LIFT HOLES ARE TO BE SEALED USING BUTYL MASTIC AND CONCRETE PLUGS. AT NO TIME SHALL CONNECTIONS BETWEEN THE STORM SEWER SYSTEM AND SANITARY SEWER SYSTEMS BE ALLOWED. ALTERNATELY, PREMIUM
- JOINT PIPE WITH INTEGRAL O-RINGS MAY BE USED. 17. FOR STRUCTURES LOCATED IN PAVED AREAS, A MINIMUM OF FOUR, 2 INCH DIAMETER HOLES SHALL BE DRILLED OR PRECAST INTO THE STRUCTURE WITHIN 1 FOOT OF THE LOWEST PIPE INVERT. THE HOLES SHALL BE DISTRIBUTED EQUIDISTANT AROUND THE PERIMETER OF THE STRUCTURE. A ONE (1) FOOT BY ONE (1) FOOT SECTION OF UNDERDRAIN FILTER CLOTH MATERIAL SHALL BE SUFFICIENTLY FIXED TO THE OUTSIDE OF THE
- MANHOLE WITH MASTIC MATERIALS TO PREVENT SLIPPAGE DURING BACKFILLING. 18. ALL STORM SEWER STRUCTURE FRAMES WITHOUT INSIDE FLANGES SHALL BE SHAPED WITH HYDRAULIC CEMENT OR ELASTOMERIC JOINT SEALANT TO FORM A FILLET TO THE STRUCTURE OR ADJUSTING RINGS AND TO MAINTAIN WATER-TIGHTNESS. FRAME ADJUSTMENTS SHALL BE COMPLETED IN ACCORDANCE WITH SECTIONS 602 AND 603 OF STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, PREPARED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, LATEST EDITION, EXCEPT AS NOTED HEREIN.

CITY OF NAPERVILLE GENERAL NOTES

- THE OWNER OR HIS/HER/THEIR REPRESENTATIVE IS RESPONSIBLE TO OBTAIN ANY AND ALL PERMITS REQUIRED BY APPLICABLE GOVERNMENT AGENCIES.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF NAPERVILLE DESIGN MANUAL AND STANDARD SPECIFICATIONS (CURRENT EDITION) AND WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATIONS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (CURRENT
- ALL CONTRACTORS DOING WORK IN PUBLIC RIGHT-OF-WAY MUST BE LICENSED (WHEN APPLICABLE) TO MAKE PUBLIC IMPROVEMENTS WITHIN THE NAPERVILLE CORPORATE LIMITS.
- 4. THE CONTRACTOR/DEVELOPER ASSUMES ALL RESPONSIBILITY AND LIABILITY FOR ANY ACTION

THE CONTRACTOR/DEVELOPER SHALL INDEMNIFY AND HOLD HARMLESS THE CITY OF NAPERVILLE.

- RESULTING FROM THEIR WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
- PRIOR TO COMMENCEMENT OF ANY OFF-SITE CONSTRUCTION, THE CONTRACTOR SHALL SECURE WRITTEN AUTHORIZATION THAT ALL OFF-SITE EASEMENTS HAVE BEEN SECURED AND THAT
- PERMISSION HAS BEEN GRANTED TO ENTER ONTO PRIVATE PROPERTY. THE CONTRACTOR AND THEIR ON-SITE REPRESENTATIVES WILL BE REQUIRED TO ATTEND A
- PRE-CONSTRUCTION MEETING WITH THE CITY OF NAPERVILLE PRIOR TO ANY WORK BEING STARTED. A PRE-CONSTRUCTION MEETING WILL NOT BE SCHEDULED UNTIL THE PROJECT HAS BEEN APPROVED BY THE CITY OF NAPERVILLE DEVELOPMENT REVIEW TEAM AND THE REQUIRED SURETY HAS BEEN
- 8. A MINIMUM OF 48 HOURS NOTICE SHALL BE GIVEN TO THE CITY OF NAPERVILLE TED BUSINESS GROUP (630-420-6100 OPTION 1) PRIOR TO STARTING WORK OR RESTARTING WORK AFTER SOME ABSENCE OF WORK FOR ANY REASON.
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ADEQUATELY IDENTIFY AND LOCATE ALL EXISTING UTILITIES PRIOR TO EXCAVATION. BEFORE STARTING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT JULIE FOR THE LOCATION OF ANY AND ALL UTILITIES. THE TOLL-FREE NUMBER IS 800-892-0123. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ANY PRIVATE FACILITIES OR NON-JULIE MEMBER FACILITIES.
- 10. THE CONTRACTOR CAN SCHEDULE ALL NECESSARY SITE INSPECTIONS WITH THE CITY OF NAPERVILLE BY CALLING (630-420-6100 OPTION 1) BETWEEN THE HOURS OF 8:00AM AND 4:00PM (CLOSED 1:00PM TO 2:00PM DAILY) ON WEEKDAYS WHEN THE CITY IS OPEN FOR BUSINESS. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE THE SITE PERMIT NUMBER FOR THE PROJECT IN ORDER TO SCHEDULE THE INSPECTION(S).
- 1. RECORD DRAWINGS ARE REQUIRED TO BE SUBMITTED AND APPROVED BY THE CITY OF NAPERVILLE PRIOR TO FINAL OCCUPANCY BEING GRANTED.
- 12. FINAL ACCEPTANCE OF PUBLIC IMPROVEMENTS SHALL BE GRANTED ONLY AFTER A FINAL INSEPCTION HAS BEEN COMPLETED AND HAS REVEALED THAT ALL IMPROVEMENTS HAVE BEEN SATISFACTORILY COMPLETED IN ACCORDANCE WITH THE NAPERVILLE STANDARD SPECIFICATIONS. UTILITIES ARE NOT CONSIDERED ACCEPTED UNTIL THEY ARE FORMALLY ACCEPTED BY THE CITY COUNCIL AS REQUIRED IN ACCORDANCE WITH THE NAPERVILLE MUNICIPAL CODE.

C-603

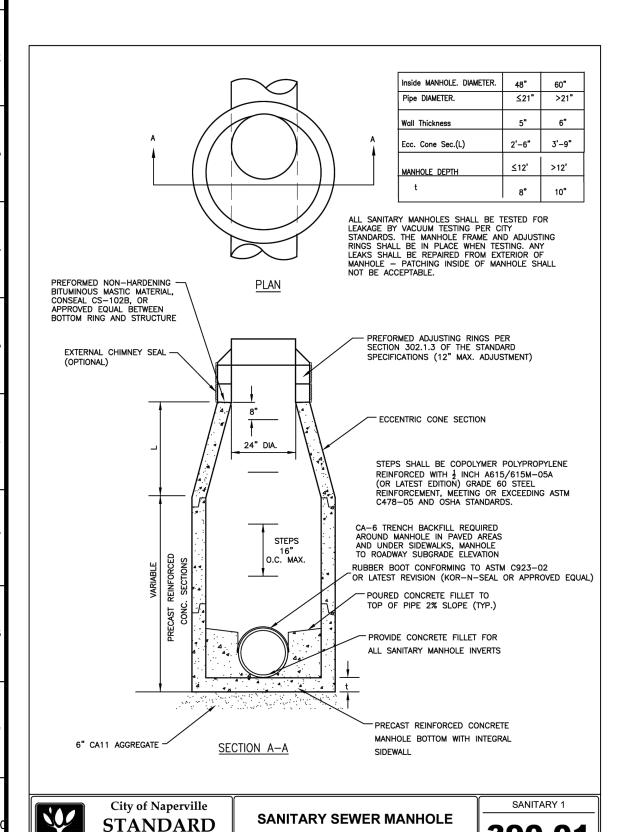
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ORIGINAL ISSUE: 10/01/2024 KHA PROJECT NO 168865042

SHEET NUMBER



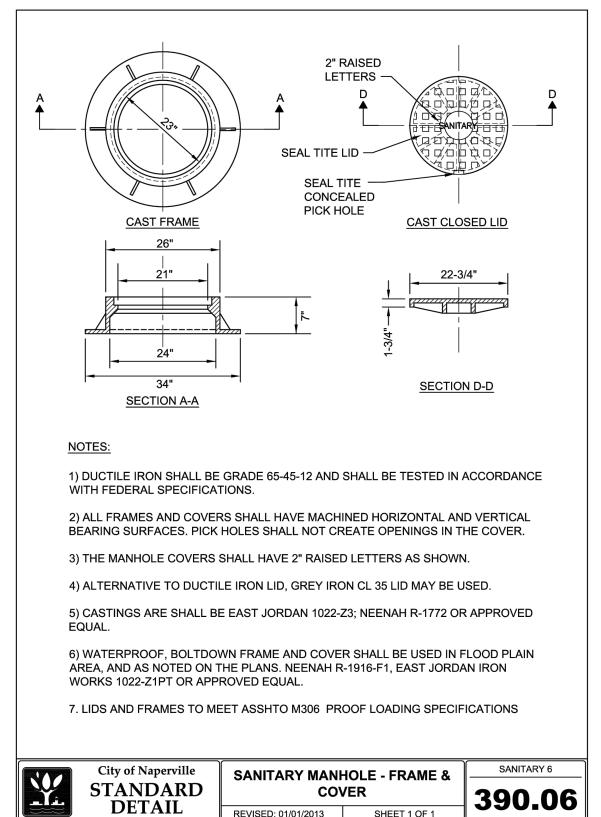
REVISED: 08/01/2018

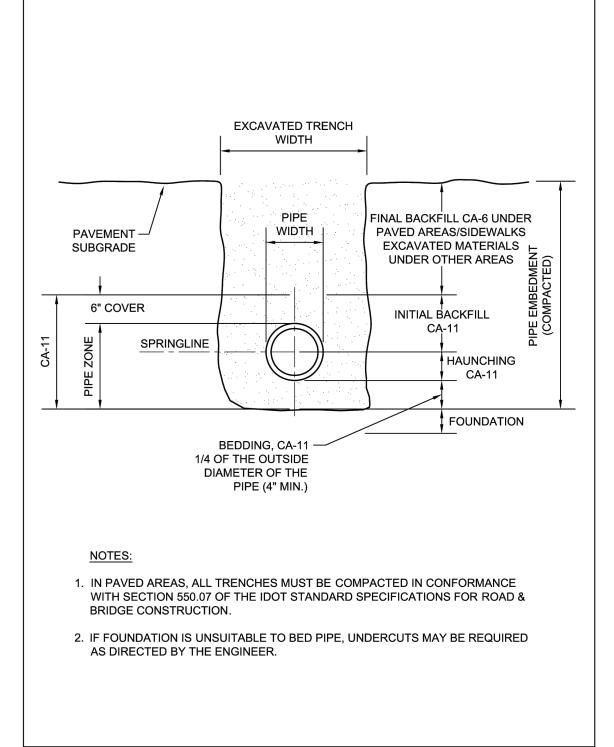
SHEET 1 OF 1

DETAIL

STANDARD

DETAIL





TRENCH SECTION FOR PVC PIPE

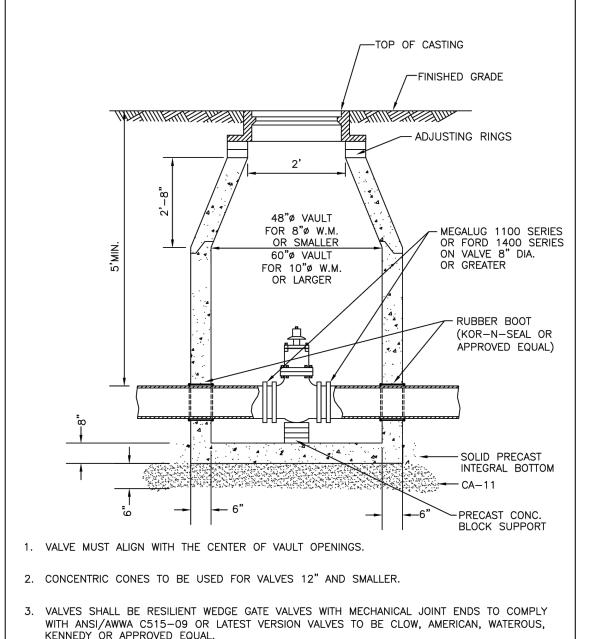
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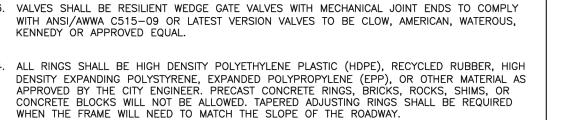
REVISED: 01/01/2013

STANDARD

DETAIL

SANITARY 10





VALVE VAULT

City of Naperville

STANDARD

DETAIL



2" RAISED LETTERS -CONCEALED PICK HOLE 5/8"——|||---| SECTION D-D SECTION A-A

- 1. DUCTILE IRON SHALL BE GRADE 65-45-12 AND SHALL BE TESTED IN ACCORDANCE WITH FEDERAL SPECIFICATIONS.
- 2. ALL FRAMES AND COVERS SHALL HAVE MACHINED HORIZONTAL AND VERTICAL BEARING SURFACES. PICK HOLES SHALL NOT CREATE OPENINGS IN THE COVER.
- 3. THE MANHOLE COVERS SHALL HAVE RAISED LETTERS AS SHOWN.
- 4. ALTERNATIVE TO DUCTILE IRON LID, GREY IRON CL 35 LID MAY BE USED.
- 5. DIMENSIONS FOR CASTINGS ARE COMPARABLE TO EAST JORDAN 1022 OR NEENAH R-1772-C, HEAVY DUTY.

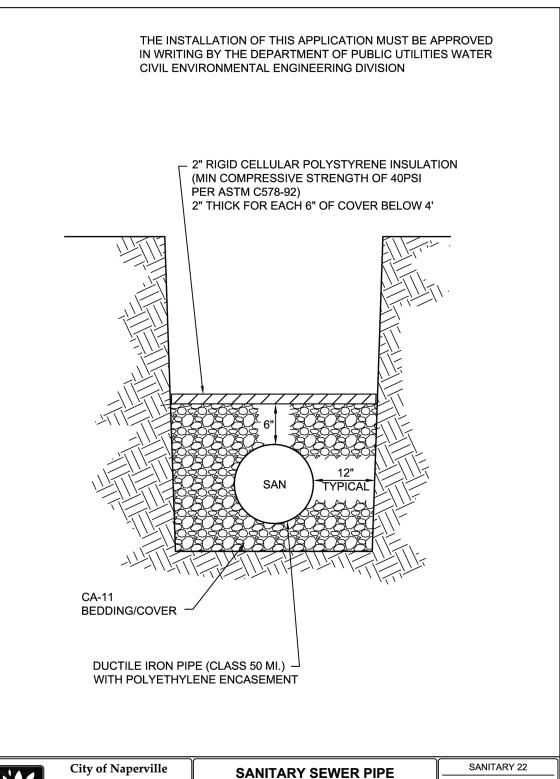
6. LIDS AND FRAMES TO MEET AASHTO M306 PROOF LOADING SPECIFICATIONS.

VALVE VAULT - FRAME & COVER

CAST CLOSED LID

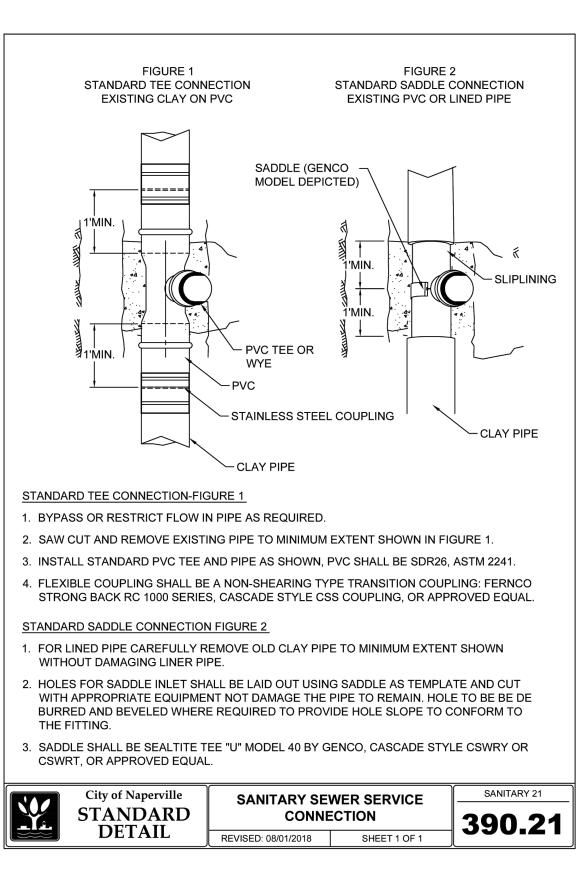
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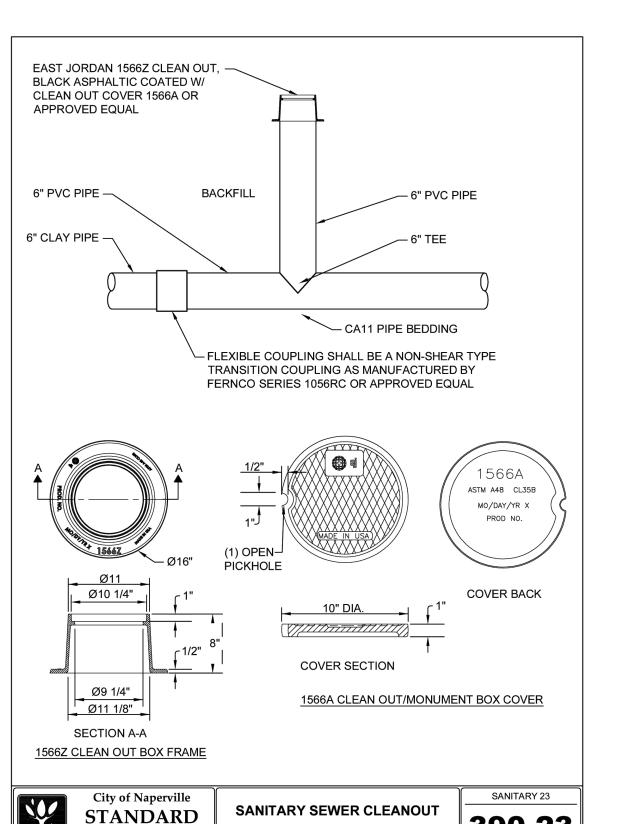
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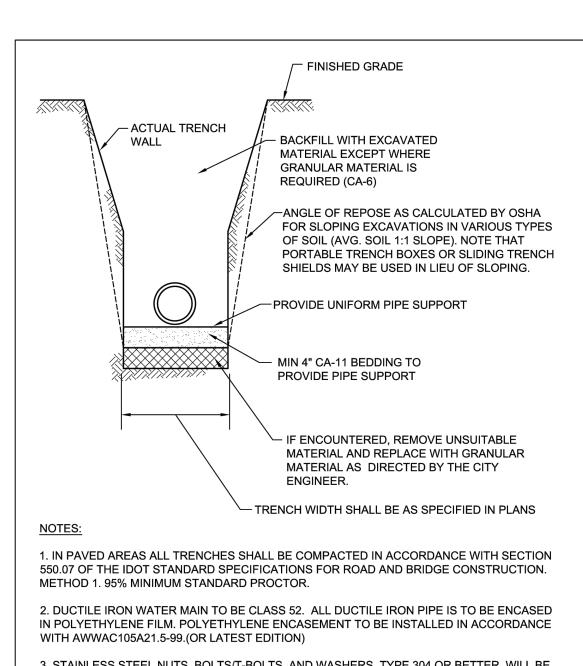
REVISED: 01/01/2013

SHEET 1 OF 1



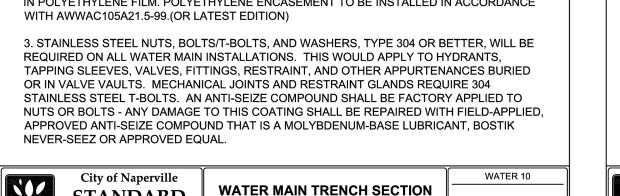


SHEET 1 OF 1

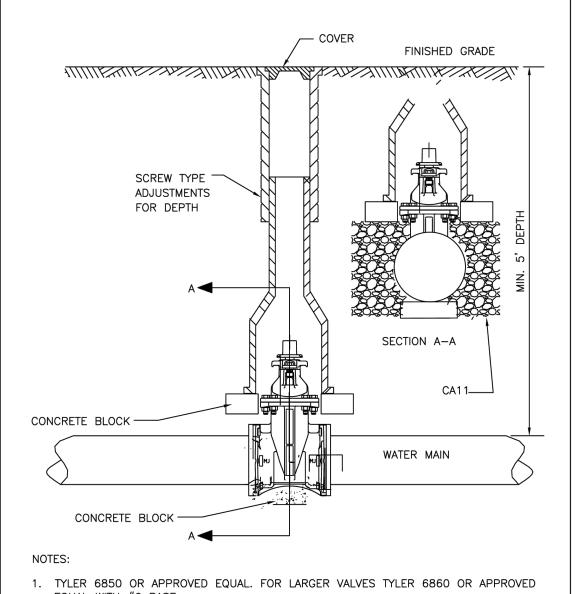


NEVER-SEEZ OR APPROVED EQUAL.

SIANDARD	ATER MAIN TRE
DETAIL	VISED: 01/01/2013



SHEET 1 OF 1



2. VALVE BOXES ARE NOT ALLOWED IN PAVED AREAS - VALVE VAULT SHALL BE PROVIDED. CONTRACTOR SHALL SUBMIT IN WRITING ANY LOCATION WHERE A VAULT IS NOT INTENDED TO BE INSTALLED AND SPECIFIC REASON WHY IT CANNOT BE INSTALLED. THIS MUST BE APPROVED IN WRITING BY DPU-WATER.

3. RESTRAINT GLANDS REQUIRED ON EACH SIDE OF VALVE IF STUBBED FOR FUTURE CONNECTION OR PIPE BEND WITHIN TWO PIPE LENGTHS OF VALVE.

14	City of Naperville STANDARD	VALV	Е ВОХ	490.05
	DETAIL	REVISED: 01/01/2013	SHEET 1 OF 1	100100

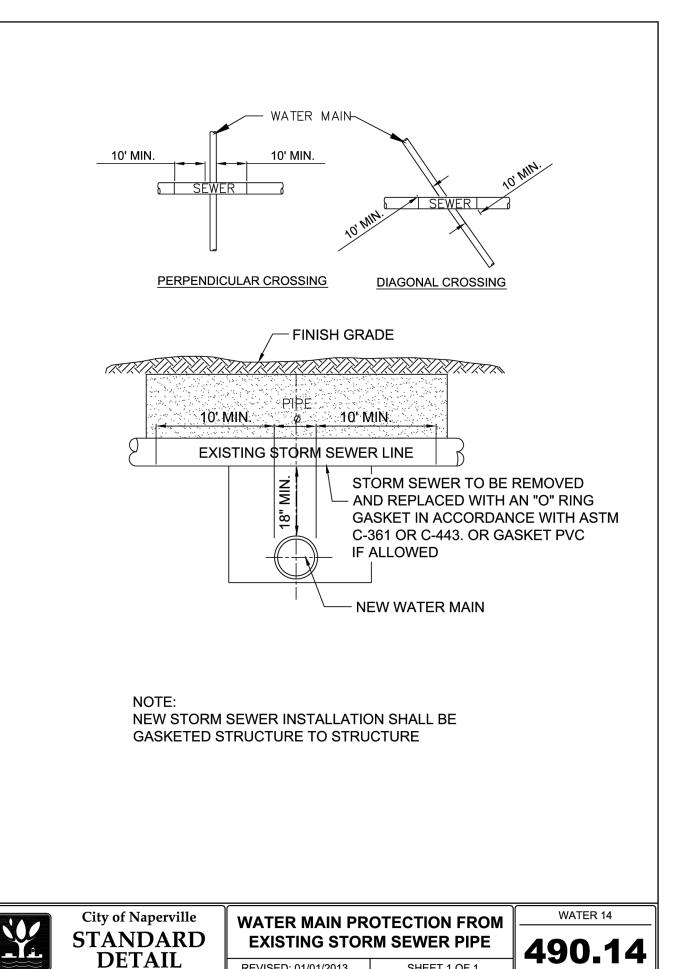
ORIGINAL ISSUE: 10/01/2024 KHA PROJECT NO. 168865042 SHEET NUMBER

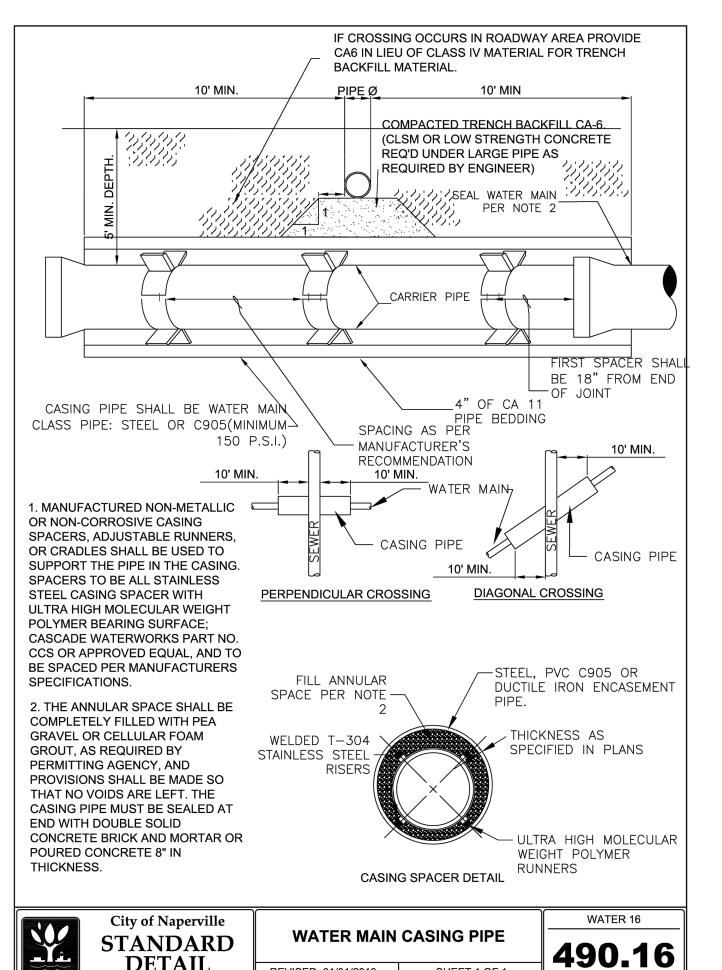
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C-604

EQUAL WITH #6 BASE. 3. STAINLESS STEEL NUTS, BOLTS/T-BOLTS, AND WASHERS, TYPE 304 OR BETTER, WILL BE REQUIRED ON ALL WATER MAIN INSTALLATIONS. THIS WOULD APPLY TO HYDRANTS. TAPPING SLEEVES, VALVES, FITTINGS, RESTRAINT, AND OTHER APPURTENANCES BURIED OR IN VALVE VAULTS. MECHANICAL JOINTS AND RESTRAINT GLANDS REQUIRE 304 STAINLESS STEEL T-BOLTS. AN ANTI-SEIZE COMPOUND SHALL BE FACTORY APPLIED TO NUTS OR BOLTS - ANY DAMAGE TO THIS COATING SHALL BE REPAIRED WITH FIELD-APPLIED, APPROVED ANTI-SEIZE COMPOUND THAT IS A MOLYBDENUM-BASE LUBRICANT, BOSTIK

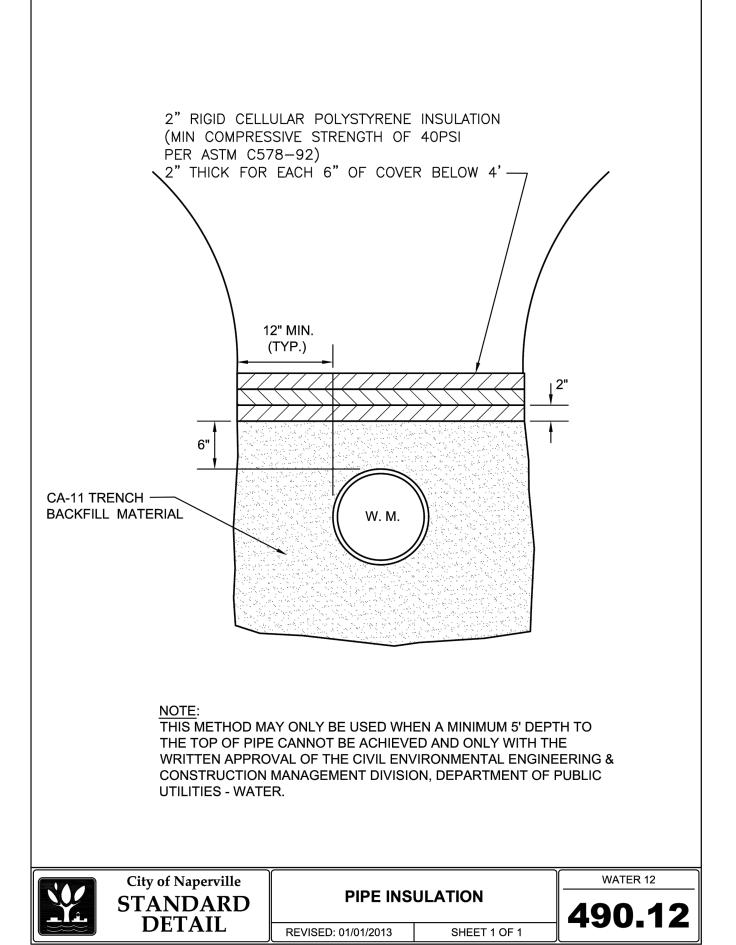
DETAIL

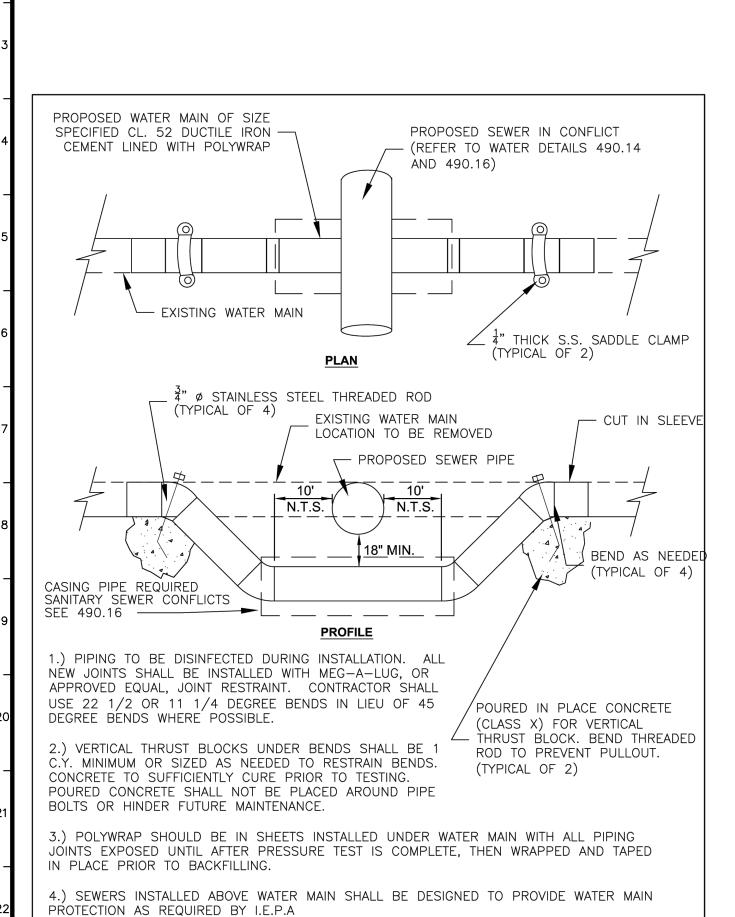




REVISED: 01/01/2013

SHEET 1 OF 1





5.) ALL PIPING TO BE FLUSHED AND TWO SAFE CONSECUTIVE BACTERIAL SAMPLES TAKEN

REVISED: 05/15/2015

LOWERING/ADJUSTING

WATER MAIN

SHEET 1 OF 1

WATER 13

PRIOR TO CITY PLACING MAIN BACK IN SERVICE.

City of Naperville

STANDARD

DETAIL

REVISED: 01/01/2013

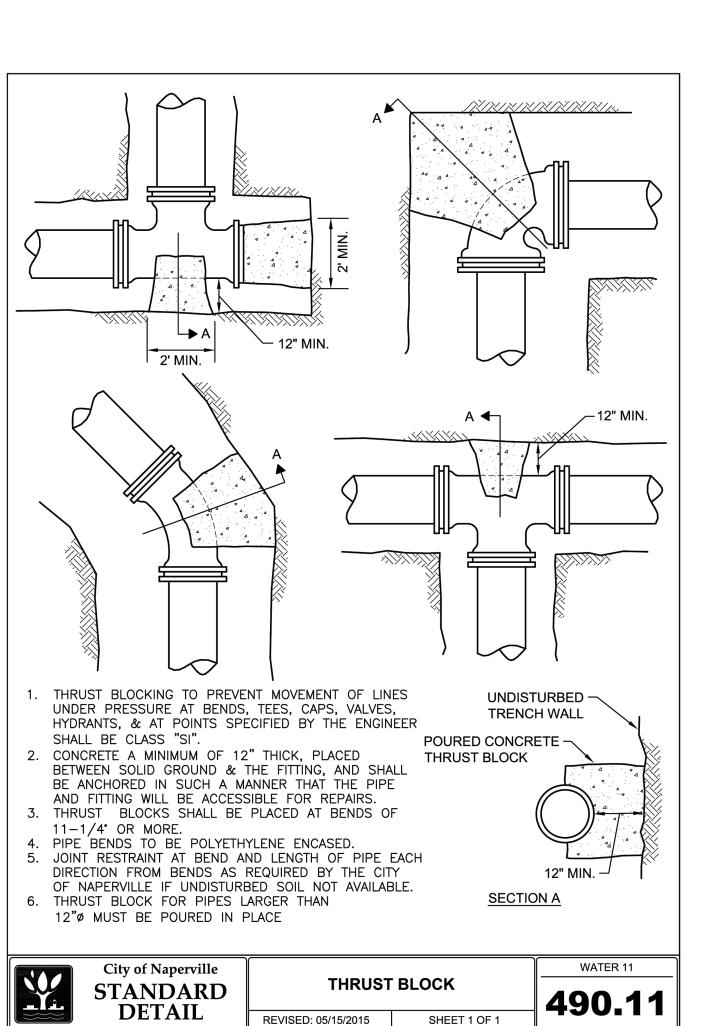
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REVISED: 01/01/2013 SHEET 1 OF 1

STANDARD





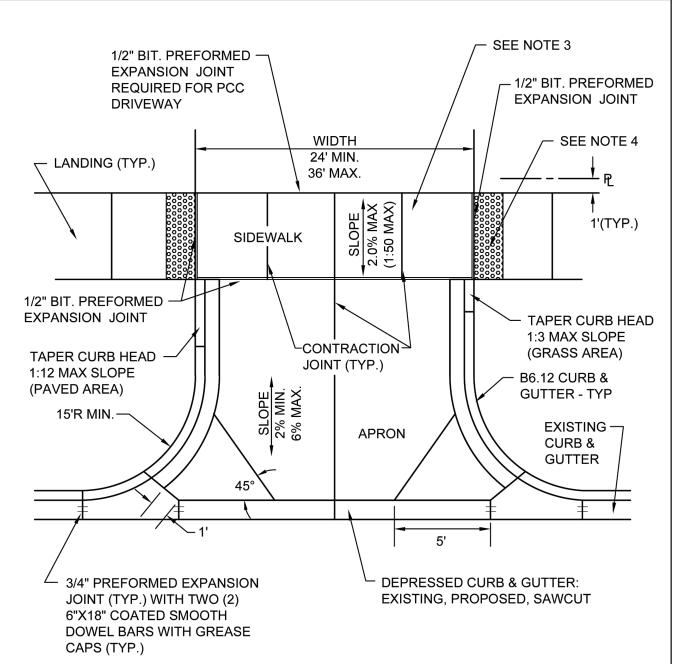
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DETAIL: SANITAR WATERM

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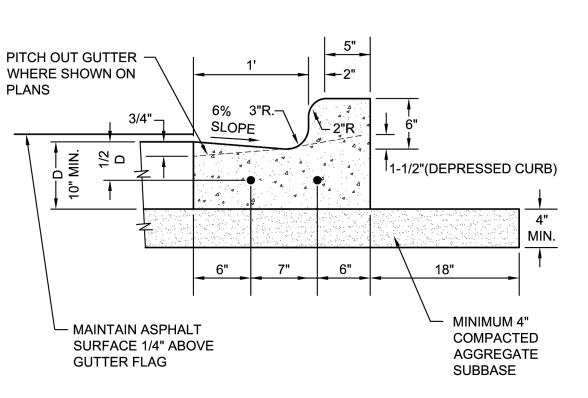
ORIGINAL ISSUE: 10/01/2024 KHA PROJECT NO. 168865042

SHEET NUMBER



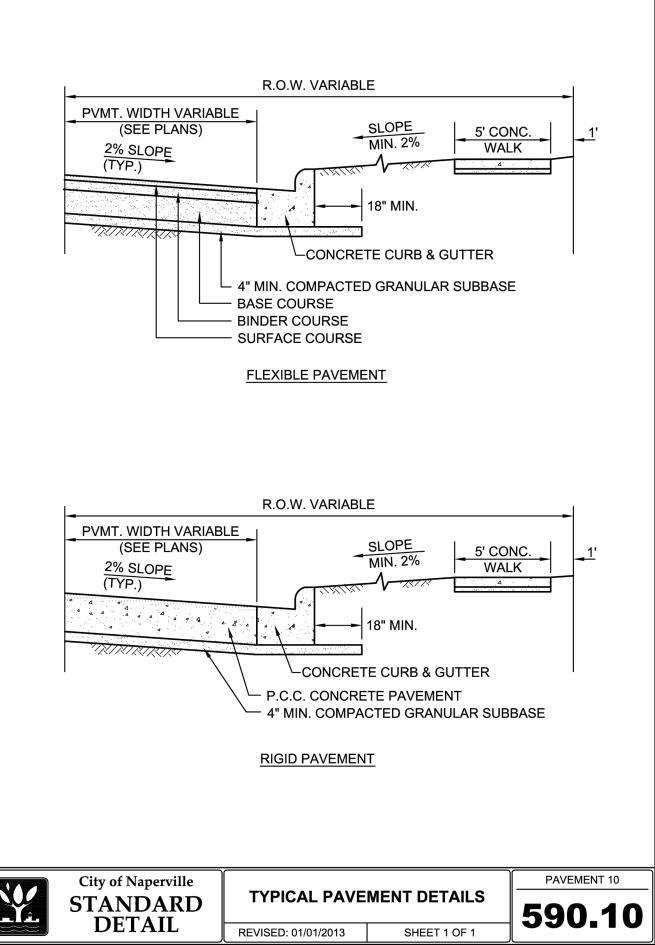
- 1. ALL AGGREGATE SUB BASE SHALL BE MECHANICALLY COMPACTED.
- 2. SIDEWALK SHALL CONTINUE THROUGH DRIVEWAYS.
- 3. SIDEWALK THICKNESS ACROSS DRIVEWAYS SHALL BE A MINIMUM OF 8" PCC ON 4" AGGREGATE SUB BASE.
- 4. EXPANSION JOINT MATERIAL MUST MATCH THE FULL DEPTH OF THE PAVEMENT. 5. DETECTABLE WARNINGS SHALL ONLY BE INSTALLED AT DRIVEWAYS WITH PERMANENT TRAFFIC CONTROL DEVICES.
- 6. SIDEWALK CONSTRUCTION SHALL FOLLOW APPLICABLE IDOT STANDARDS.
- 7. SIDEWALKS SHALL FOLLOW CURRENT ADA GUIDELINES.

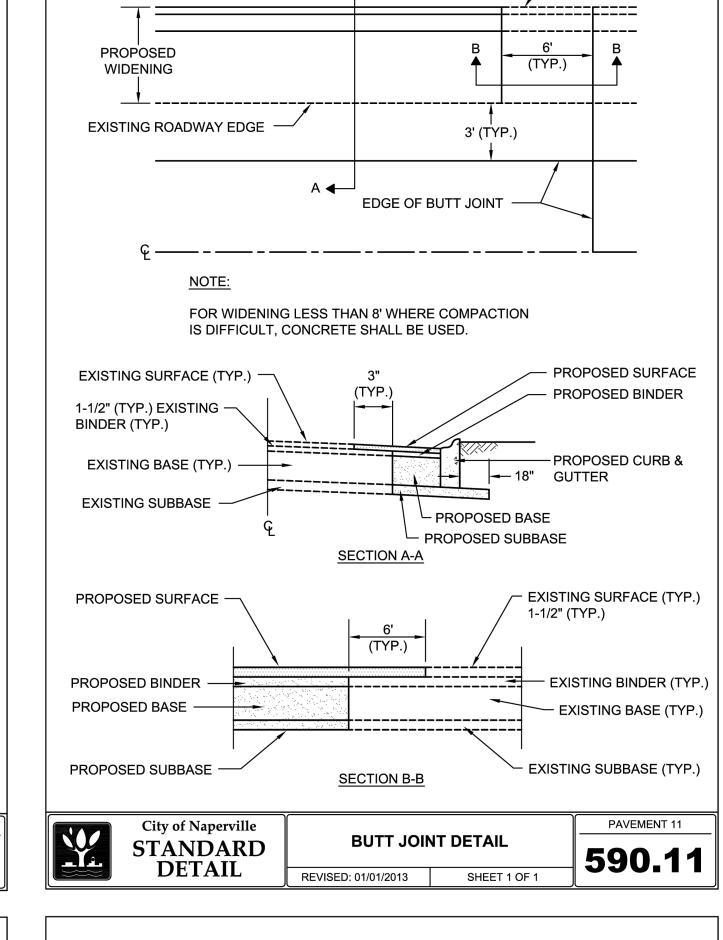
City of Naperville	TYPICAL CO	OMMEDCIAL	PAVEMENT 5
STANDARD DETAIL	TYPICAL COMMERCIAL DRIVEWAY DETAIL		590.05
	REVISED: 08/01/2018	SHEET 1 OF 1	



- 2. TOOLED CONTROL JOINTS OR SAWCUTS SHALL BE MADE EVERY 15'.
- 3. SAWCUTS SHALL BE MADE WITHIN TWENTY-FOUR (24) HOURS AND SEALED WITH A CITY APPROVED JOINT SEALANT. JOINTS SHALL BE CLEAN AND DRY PRIOR TO APPLICATION OF SEALANT.
- EPOXY COATED REINFORCING BARS (NO. 4) SHALL BE PLACED IN THE CURB AND GUTTER, CENTERED OVER THE TRENCH.

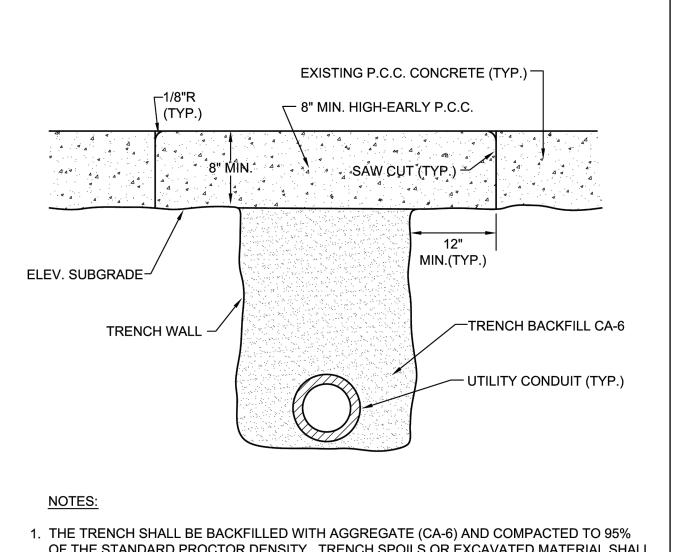
City of Naperville	TANDARD B6.12 BARRIER CURB & GUTTER		PAVEMENT 20
STANDARD			590.20
DETAIL	REVISED: 01/01/2013	SHEET 1 OF 1	000120





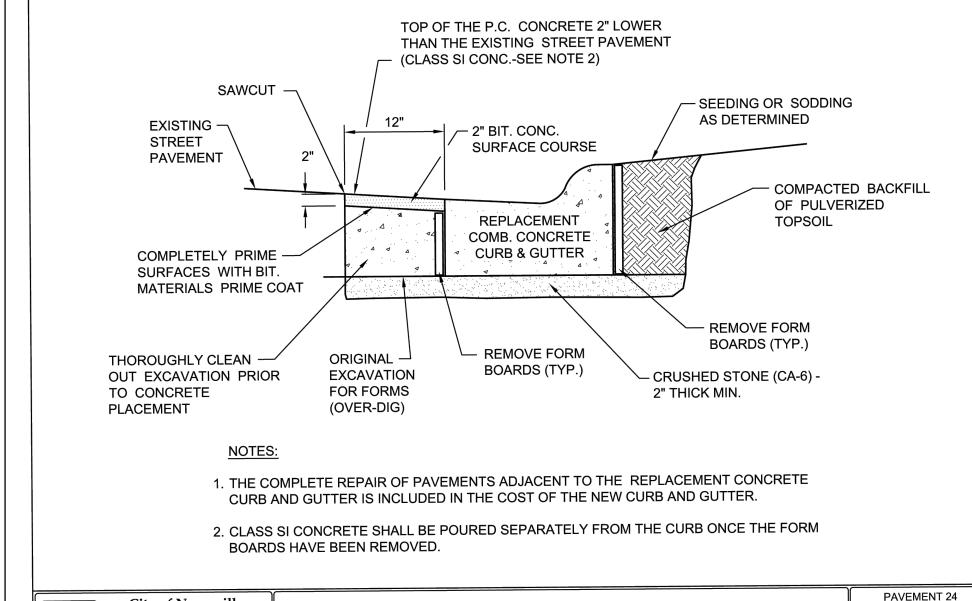
— EXISTING CURB

& GUTTER



- OF THE STANDARD PROCTOR DENSITY. TRENCH SPOILS OR EXCAVATED MATERIAL SHALL BE DISCARDED BY THE CONTRACTOR, AT HIS EXPENSE, AT DUMP SITES OR IN A SUITABLE FASHION AS APPROVED BY THE CITY ENGINEER.
- 2. PRIOR TO PLACING OF P.C.C. CONCRETE, THE EXPOSED EDGES OF ALL EXISTING PAVEMENT SHALL BE SAW CUT TO PROVIDE A SMOOTH, CLEAN EDGE, FREE OF LOOSE MATERIAL.
- 3. EXCAVATIONS SHALL BE PROTECTED BY BARRICADES WITH FLASHING LIGHTS. A 1" STEEL PLATE SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR AT LOCATIONS WHERE ADJUSTMENTS ARE LOCATED IN TRAVEL LANES UNTIL THE SURFACE RESTORATION IS COMPLETE. THE PLATE SHALL BE PROTECTED FROM SLIDING AND PROVIDED WITH BITUMINOUS RAMPS.
- 4. TRENCH TO BE COMPACTED IN CONFORMANCE WITH ARTICLE 603.08 OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

	City of Naperville	UTILITY TRENCH	PAVING SECTION	PAVEMENT 12
Ya	STANDARD	(RIGID PAVEMENTS)		590.12
	DETAIL	REVISED: 01/01/2013	SHEET 1 OF 1	55511



CURB REPLACEMENT

SHEET 1 OF 1

City of Naperville

STANDARD

REVISED: 05/15/2015

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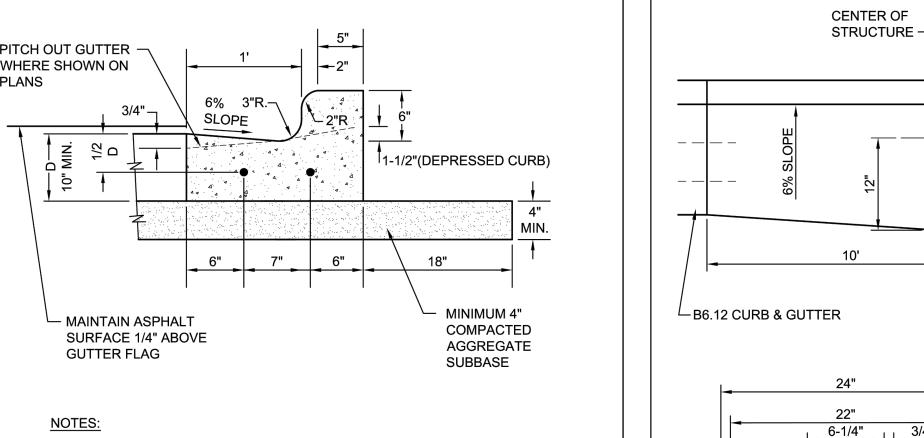
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ORIGINAL ISSUE: 10/01/2024 KHA PROJECT NO. 168865042

SHEET NUMBER

C-606



- 1. 3/4" PREFORMED BITUMINOUS EXPANSION JOINT WITH TWO (2) NUMBER 6 COATED SMOOTH DOWEL BARS (3/4" DIA. X 18") WITH GREASE CAPS SHALL BE PLACED EVERY 150', 10' EITHER SIDE OF DRAINAGE STRUCTURES, P.C.'S, RADIUS POINTS AND BACK OF CUL-DE-SACS. WHEN EXPANSION JOINTS ARE CONSTRUCTED ADJACENT TO EXISTING CURB & GUTTER THE EXISTING CURB SHALL BE DRILLED AND TWO (2) NUMBER 6 COATED SMOOTH DOWEL BARS (3/4" X 18") GROUTED IN PLACE. GREASE CAPS SHALL BE PLACED ON THE SIDE OF THE NEW CURB AND GUTTER SHALL HAVE A PINCHED STOP THAT WILL PROVIDE A MINIMUM 1" EXPANSION.

- 4. FOR CURB AND GUTTER CONSTRUCTED OVER UTILITY TRENCHES, TWO (2)

PAVEMENT 20	
90.20	Y.

City of Naperville **STANDARD DETAIL**

22"

OR AS APPROVED BY THE CITY ENGINEER.

B6.12 BARRIER CURB & GUTTER AT CURB INLETS REVISED: 01/01/2013 SHEET 1 OF 1

1. GRATE & CASTING SHALL BE EAST JORDAN 7220 OR NEENAH R-3278-A

2. ALL CASTINGS SHALL BE SHOP PAINTED WITH AN ASPHALTIC BASE.

36"

3/4" PREFORMED BITUMINOUS **EXPANSION JOINT MATERIAL**

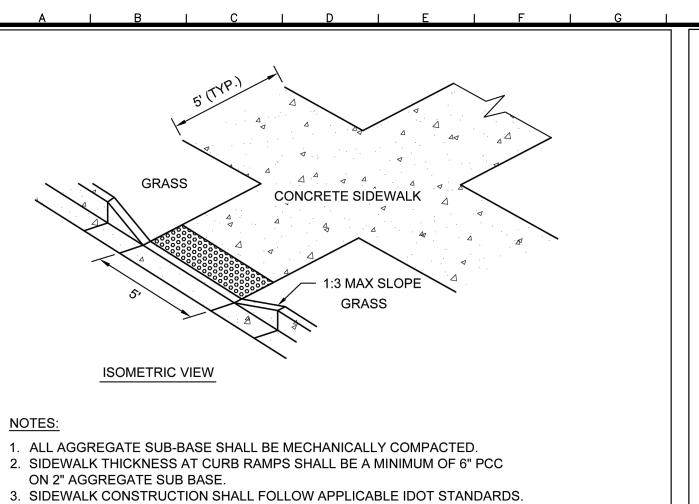
BARS WITH GREASE CAPS. —

WITH TWO NO. 6 SMOOTH DOWEL

EDGE OF PAVEMENT —

PAVEMENT 21

| 2"R _{| 2-1/4}"



- 4. SIDEWALKS SHALL FOLLOW CURRENT ADA GUIDELINES.

APPLICABLE IDOT STANDARD DETAILS (USE LATEST REVISION:

- 424001-XX PERPENDICULAR CURB RAMPS FOR SIDEWALKS 424006-XX DIAGONAL CURB RAMPS FOR SIDEWALKS 424011-XX CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
- 424016-XX MID-BLOCK CURB RAMPS FOR SIDEWALKS 424021-XX DEPRESSED CORNER FOR SIDEWALKS 424026-XX ENTRANCE/ALLEY PEDESTRIAN CROSSINGS
- 424031-XX MEDIAN PEDESTRIAN CROSSINGS 606001-XX CONCRETE CURB TYPE B AND COMB CONCRETE CURB AND GUTTER

APPROVED ADA DETECTABLE WARNING TILES:

ADA SOLUTIONS - CAST IN PLACE REPLACEABLE

SPACING BETWEEN PAVEMENT MARKINGS MAY BE INCREASED TO A MAXIMUM OF 2.5'

SCHOOL AND PEDESTRIAN

BICYCLE AND EQUESTRIAN (TRAIL CROSSINGS)

REVISED: 06/14/2013

CROSSWALK

SHEET 1 OF 1

TO AVOID WHEEL PATHS.

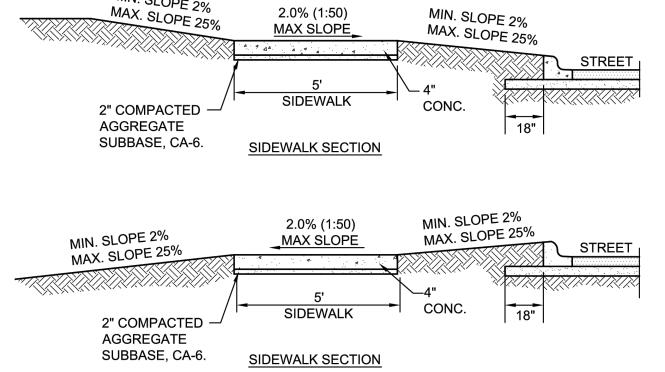
City of Naperville

STANDARD

DETAIL

- ARMOR TILE CAST IN PLACE
- DETECTILE SLIMTEK II TUFTILE - POLYMER WET-SET

City of Naperville **CURB RAMPS STANDARD** REVISED: 08/01/2018 SHEET 1 OF 1



2.0% (1:50)

SPECIFICATIONS

and triple outlet.

add 1.043 lbs.)

Solids: 31 gal.

maintenance.

outdoor installations.

(450 lb rating).

Capacities - Liquid: 125 gal.

Grease: 861 lbs. (118 gal.) @75 GPM

For gravity drainage applications only. Do not use for pressure applications.

Vent not required unless per local code.

are removable to inspect / clean piping. . Integral air relief / Anti-siphon / Sampling access.

prevents accidental entry to tank

ENGINEER SPECIFICATION GUIDE

CERTIFIED PERFORMANCE

4" FPT inlet/outlet with 4" plain end adapters, single inlet

Unit weight - w/ cast iron covers: 190 lbs. (For wet weight

Maximum operating temperature: 150° F continuous

Cover placement allows full access to tank for proper

Engineered inlet and outlet diffusers with inspection ports

Adjustable cover adapter provides up to 4" of additional

Safety Star®/

Adjustable Adapter with -

H-20 rated cast iron cover

PART NUMBER: 4045-007-02

DWG BY: C. BUSENITZ DATE: 4/14/2022 REV:

TOP VIEW

(COVER REMOVED FOR CLARITY)

SECTION A-A

GB-75 GREASE INTERCEPTOR 75 GPM, 4" INLET/OUTLET, H-20 RATED

CAST IRON COVER

√ 24-1/2" TYP ——

(Optional)

ISOMETRIC VIEW

END VIEW

Designed for below-grade, above-grade, indoor and

3. Safety Star®, access restrictor built into cover adapter

schier Great Basin™ grease interceptor model # GB-75 shall be

etime guaranteed and made in USA of seamless, rotationallynolded polyethylene with minimum 3/8" uniform wall thickness.

erceptor shall be furnished for above or below-grade stallation with adjustable cover adapter, Safety Star® access

water/gas-tight seal and have minimum 16,000 lbs. load

CSA B481.1. Interceptor flow rate shall be 75 GPM.

Great Basin™ hydromechanical grease interceptors

are third party performance-tested and listed by IAPMO to ASME #A112.14.3 and CSA B481.1 grease

requirements for grease separation and storage.
They are compliant to the Uniform Plumbing Code

Type D certification does not require a flow control

interceptor standards and greatly exceed

nd the International Plumbing Code.

SPECIFICATION SHEET

MODEL NUMBER:

PROPRIETARY AND CONFIDENTIAL

GB-75

nterceptor shall be certified to ASME A112.14.3 (Type D) and

nterceptor grease capacity shall be 861 lbs. Cover shall provide

PAVEMENT 32

WHITE PAVEMENT

WHITE PAVEMENT

590.33

MARKINGS

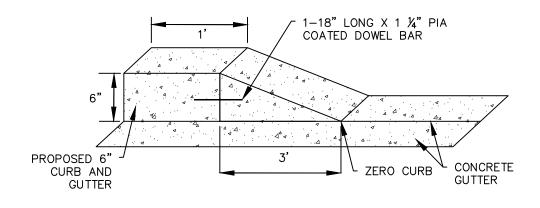
MARKINGS

CONCRETE SHALL BE IDOT CLASS SI.

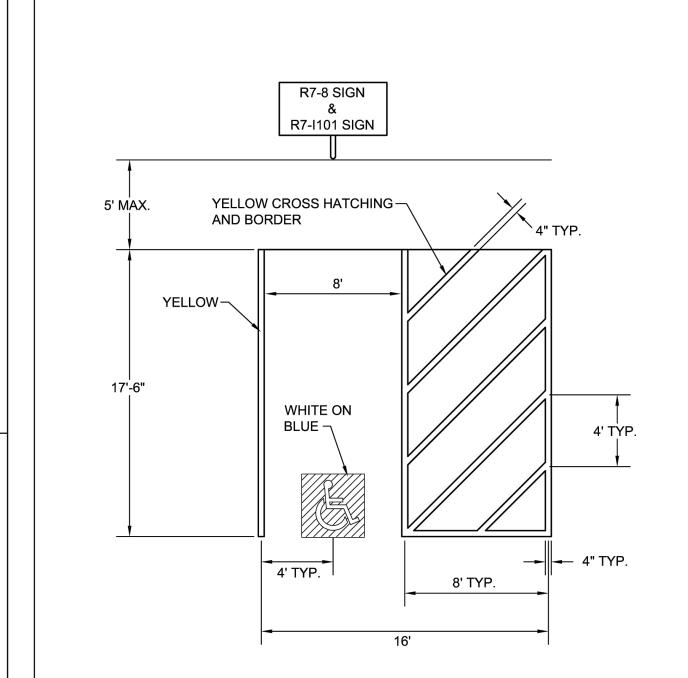
MIN. SLOPE 2%

- MINIMUM SIDEWALK THICKNESS SHALL BE 4".
- SIDEWALK THICKNESS ACROSS DRIVEWAYS SHALL BE AT A MINIMUM 6" FOR RESIDENTIAL DRIVEWAYS AND 8" FOR COMMERCIAL DRIVEWAYS.
- MAXIMUM LONGITUDINAL SLOPE SHALL NOT EXCEED 5% (20:1). FOR ANY SLOPE IN EXCESS OF 5%, ALL REQUIREMENTS OF THE ILLINOIS ACCESSIBILITY CODE (LATEST EDITION) SHALL BE MET.
- MINIMUM TRANSVERSE SLOPE SHALL BE 1.0% (1:100), MAXIMUM TRANSVERSE SLOPE SHALL BE 2.0% (1:50).
- 6. A MINIMUM 2" AGGREGATE SUBBASE (CA-6) SHALL BE PROVIDED. (4" THROUGH
- COMMERCIAL DRIVEWAYS).
- AGGREGATE SUBBASE SHALL BE MECHANICALLY COMPACTED. 8. ALL SIDEWALKS SHALL BE PROMPTLY BACKFILLED AND PROTECTED FROM DAMAGE.
- SIDEWALK CONSTRUCTION SHALL FOLLOW APPLICABLE IDOT STANDARDS.
- 10. SIDEWALKS SHALL FOLLOW CURRENT ADA GUIDELINES.

PAVEMENT 30 City of Naperville **SIDEWALK STANDARD** 590.30 REVISED: 01/01/2013 SHEET 1 OF 1



ZERO CURB TRANSITION



FOR MULTIPLE ACCESSIBLE PARKING SPACES IN A ROW, THE DESIGN ENGINEER HAS THE OPTION OF USING THE ABOVE SHOWN UNIT IN A COMBINATION OF LEFT-HANDED AND RIGHT-HANDED LAYOUTS IF IT PROVIDES FOR BETTER SITE DESIGN.

City of Naperville **STANDARD DETAIL**

ACCESSIBLE PARKING SPACE MARKINGS REVISED: 10/04/2023 SHEET 2 OF 3

590.35

PAVEMENT 35

NOTES FOR ACCESSIBLE PARKING SPACES:

FOR ANGLED PARKING SPACES.

City of Naperville

STANDARD

1. EACH PARKING SPACE SHALL BE AT LEAST 16' WIDE, WITH AN 8' WIDE ACCESS AISLE. 2. TWO PARKING SPACES MAY SHARE AN ACCESS AISLE EXCEPT

3. PARKING SPACE IDENTIFICATION SIGN WITH INTERNATIONAL SYMBOL OF ACCESSIBILITY (R7-8) SHALL BE MOUNTED ON A PERMANENT POST OR WALL AT THE FRONT CENTER OF THE ACCESSIBLE PARKING SPACE, SET AT A MINIMUM OF 5' ABOVE THE GROUND SURFACE MEASURED TO THE BOTTOM OF THE

OF A PARKING SPACE. 4. ACCESSIBLE PARKING SIGNS SHALL ALSO EXHIBIT THE WORDS "\$250 FINE" OR THE "\$250 FINE" SIGN (R7-I101) SHALL BE PLACED BENEATH THE ACCESSIBLE PARKING SIGN (R7-8).

5. PARKING SPACES DESIGNED FOR PERSONS WITH DISABILITIES AND ACCESSIBLE PASSENGER LOADING ZONES THAT SERVE A PARTICULAR BUILDING, SHALL BE LOCATED ON THE SHORTEST POSSIBLE ACCESSIBLE CIRCULATION ROUTE TO AN ACCESSIBLE ENTRANCE OF THE BUILDING.

6. IN SEPARATE PARKING STRUCTURES OR LOTS THAT DO NOT SERVE A PARTICULAR BUILDING, PARKING SPACES FOR PERSONS WITH DISABILITIES SHALL BE LOCATED ON THE SHORTEST POSSIBLE CIRCULATION ROUTE TO AN ACCESSIBLE PEDESTRIAN ENTRANCE OF THE PARKING FACILITY.

REQUIRED	· · · · · · · · · · · · · · · · · · ·	# OF OFF STREET PARKING	
R OF ACCESSIBLE	REQUIRED MINIMUM NUMBER OF ACCESSIBLE PARKING SPACES	PACES NUMBER OF ACCESSIBLE	NUMBER OF ACCESSIBLE PARKING SPACES BLUE
1	1	25 1	1
2	2	50 2	
3	3	75 3	3 1 1
4	4	100 4	4
5	5	150 5	
6 2-1/2"	6	200 6	
7 TYP. 4' SQUARE	7	300 7	7 TYP. 4' SQUARE
8	8	400 8	8
9	9	500 9	9
TOTAL NUMBER ACCESSIBLE SYMBO	2% OF TOTAL NUMBER	1000 2% OF TOTAL NUMBER	2% OF TOTAL NUMBER ACCESSIBLE SYMBOL
S 1 FOR EACH 100 LINES SHALL BE WHI	20 PLUS 1 FOR EACH 100	1000 20 PLUS 1 FOR EACH 100	20 PLUS 1 FOR EACH 100 LINES SHALL BE WHITE.
OVER 1000	OVER 1000	OVER 1000	OVER 1000

REVISED: 10/04/2023

SIGN AND NO MORE THAN 5' HORIZONTALLY FROM THE FRONT ACCESSIBLE PARKING

ACCESSIBLE PARKING SPACE MARKINGS 590.35

SHEET 3 OF 3

PARKING

SIGN (R7-8)

"\$250 FINE" SIGN

(R7-I101)

ACCESSIBLE

VAN ACCESSIBLE SIGN

(OPTIONAL)

18" x 9"

DETAIL

REVISED: 01/01/2013

Shawnee, KS 66218 Tel: 913-951-3300 Fax: 913-951-3399

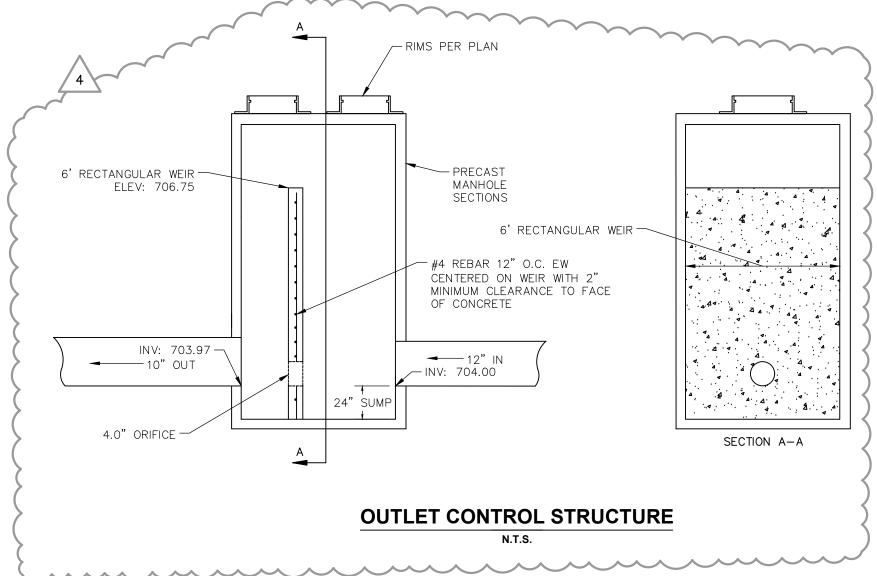
BLOCK RETAINING WALL UNIT NON-WOVEN GEOTEXTILE FABRIC RETAINED SOIL SEE MANUFACTURER'S SPECIFICATIONS - GRANULAR BACKFILL - 4" PERFORATED UNDERDRAIN - COMPACTED AGGREGATE BASE E MANUFACTURER'S COMPACTED SUBGRADE SPECIFICATIONS 1. THIS DETAIL IS FOR INFORMATION ONLY. CONTRACTOR TO SUBMIT SHOP DRAWINGS OF THE RETAINING WALL DESIGN SIGNED AND SEALED BY A LICENSED STRUCTURAL ENGINEER FOR ENGINEER'S REVIEW AND APPROVAL. OWNER, ENGINEER AND PROJECT ARCHITECT FOR APPROVAL.

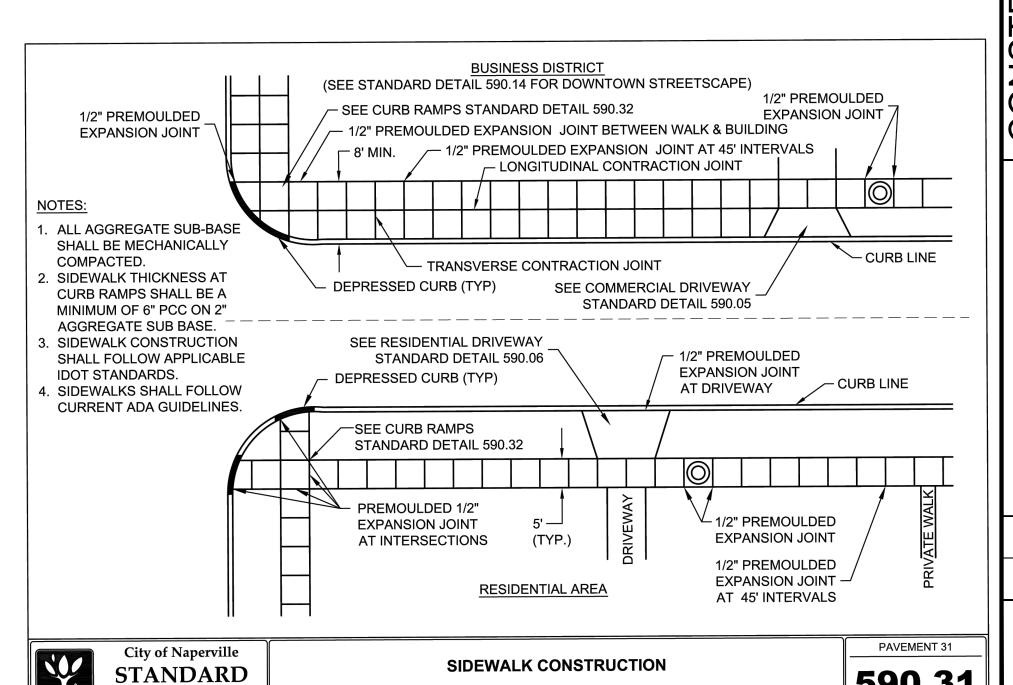
2. CONTRACTOR TO PROVIDE RETAINING WALL PRODUCT SPECIFICATIONS, INCLUDING BLOCK TYPE, SIZE AND COLOR TO 3. SEE LAYOUT, UTILITY, GRADING, AND LANDSCAPING PLANS FOR WALL HEIGHT AND LENGTH. SEE UTILITY PLAN FOR ANY UTILITY PENETRATION OF THE WALL BOLLARDS & LANDSCAPING, FENCE, ETC. CONTRACTOR TO VERIFY BATTER ANGLE AND WALL SETBACK DISTANCE PRIOR TO STAKING THE WALL 4. GEOGRID REINFORCEMENT TO BE PROVIDED BASED ON MANUFACTURER RECOMMENDATIONS AND SOIL CONDITIONS. CONTRACTOR TO VERIFY SUFFICIENT CLEARANCE TO INSTALL GEOGRID TO THE LENGTH REQUIRED IS ACHIEVABLE WITHIN THE PROJECT LIMITS PRIOR TO ORDERING RETAINING WALL MATERIALS. 5. A 4" MINIMUM PERFORATED UNDERDRAIN PIPE WRAPPED IN A FILTER SOCK SHALL BE PROVIDED ACCORDING TO THE MANUFACTURER GUIDELINES. 6. COMPACTED AGGREGATE BASE, SUBGRADE, BURY DEPTH AND GRANULAR BACKFILL DRAINAGE LAYER SHALL BE ACCORDING TO THE MANUFACTURER'S GUIDELINES.

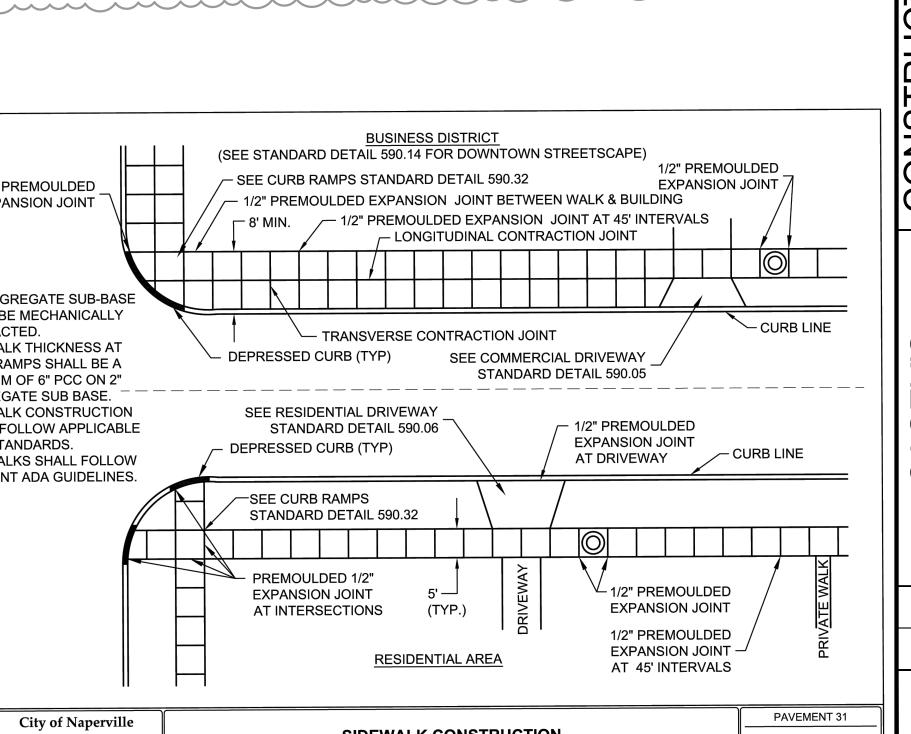
8. THE PROJECT GEOTECHNICAL ENGINEER SHALL BE CONSULTED FOR INTERPRETATION OF THE SUBSURFACE CONDITIONS, STABILITY OF THE DESIGN PARAMETERS OR INTERPRETATION OF SUBSURFACE GROUNDWATER CONDITIONS.

7. NON-WOVEN GEOTEXTILE FABRIC SHALL BE PROVIDED AROUND LIMITS OF GRANULAR BACKFILL DRAINAGE LAYER AS

SEGMENTAL BLOCK RETAINING WALL

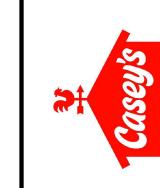






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> ORIGINAL ISSUE: 10/01/2024

KHA PROJECT NO 168865042

SHEET NUMBER

C-607

590.31

SHEET 1 OF 1

PAVER SPECIFICATIONS:

RED BLEND CONCRETE PAVERS MANUFACTURER: UNILOCK

PRODUCT: IL CAMPO SIZE: 7.75" X 4" X 2.25" COLOR: HERITAGE BROWN

2. TAN CONCRETE PAVERS MANUFACTURER: UNILOCK PRODUCT: HOLLAND PREMIER SIZE: 7.75" X 4" X 2.25" COLOR: SANDSTONE

3. JOINTING MATERIAL: MANUFACTURER APPROVED POLYMERIC SAND

COLOR: TAN

- 4. CONCRETE PAVERS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS SET FORTH IN ASTM C-936:
- 4.1. MEASURED LENGTH OF TEST SPECIMENS SHALL NOT DIFFER BY MORE THAN +/- 0.063 IN., WHILE MEASURED THICKNESS SHALL NOT DIFFER BY MORE THAN +/- 0.125 IN.
- 4.2. AVERAGE COMPRESSIVE STRENGTH OF 8,000 PSI WITH NO INDIVIDUAL UNIT UNDER 7,200 PSI WHEN TESTED ACCORDANCE WITH ASTM C-140.
- 4.3. FREEZE-THAW TESTING IS REQUIRED AND THE AVERAGE MASS LOSS OF ALL SPECIMENS TESTED SHALL NOT BE GREATER THAN (A) 225G/M2 WHEN SUBJECT TO 28 FREEZE THAW CYCLES, OR (B) 500GM/M2 WHEN SUBJECT TO 49 FREEZE THAW CYCLES. TESTING SHALL BE CONDUCTED USING A 3% SALINE SOLUTION IN ACCORDANCE WITH ASTM C-1645.
- 4.4. PIGMENT IN CONCRETE PAVERS SHALL CONFORM TO ASTM C-979. 5. PAVERS SHALL BE INSTALLED PER MANUFACTURER SPECIFICATIONS AND

ACCORDING TO CURRENT ICPI STANDARDS.

SIDEWALK SPECIFICATIONS:

CONCRETE SHALL BE IDOT CLASS SI. 2. MINIMUM SIDEWALK THICKNESS SHALL

3. SIDEWALK THICKNESS ACROSS DRIVEWAYS SHALL BE AT A MINIMUM 6" FOR RESIDENTIAL DRIVEWAYS AND 8" FOR COMMERCIAL DRIVEWAYS. MAXIMUM LONGITUDINAL SLOPE

SHALL NOT EXCEED 8.3% (12:1). FOR ANY SLOPE IN EXCESS OF 5% UP TO 8.3%, LANDINGS AND HANDRAILS WILL BE REQUIRED PER THE ILLINOIS ACCESSIBILITY CODE (LATEST EDITION).

5. MINIMUM TRANSVERSE SLOPE SHALL BE 1.0% (1:100). MAXIMUM TRANSVERSE SLOPE SHALL BE LESS

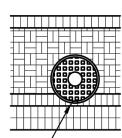
THAN 2.0% (1:50). 6. A MINIMUM 4" AGGREGATE SUBBASE (CA-6) SHALL BE PROVIDED. (6" THROUGH COMMERCIAL DRIVES).

7. AGGREGATE SUBBASE SHALL BE MECHANICALLY COMPACTED. 8. ALL SIDEWALKS SHALL BE PROMPTLY BACKFILLED AND PROTECTED FROM

DAMAGE. 9. SIDEWALK CONSTRUCTION SHALL FOLLOW IDOT STANDARDS.

10. SIDEWALKS SHALL FOLLOW CURRENT ADA GUIDELINES.

WITHIN PAVERS



- CUT PAVERS TO FIT AROUND **OBSTRUCTIONS**

PAVEMENT 15

3.7

APPLIES TO ALL UTILITIES AND **OBSTRUCTIONS WITHIN THE PAVER** AREAS.

City of Naperville **STANDARD** DETAIL

DOWNTOWN STREETSCAPE **MATERIALS**

REVISED: 4/24/2019 SHEET 1 OF 8

590.15

DOWNTOWN STREETSCAPE TYPE BUILDING EDGE PEDESTRIAN ZONE WALKING AREA AMENITY AREA (VARIES SEE PLANS) 6' MIN. 8' PREFERRED ── 1" SAND SETTING BED EX. CONCRETE ___ 4" CONC. - EXPANSION JOINT - CURB 4" MIN. COMPACTED AGGREGATE, CA-6 12" - 6" MIN. COMPACTED 4" PERFORATED AGGREGATE, CA-6 UNDERDRAIN WITH SLOPE TO DRAIN. FILTER SOCK, TIE TO EXISTING CATCH BASINS WHERE DIRECTED LAYOUT REFER TO CHAPTER 2 OF THE DOWNTOWN BY THE CITY STREETSCAPE STANDARD. ENGINEER. MATERIALS AND SPECIFICATIONS.

1. FOR MORE INFORMATION ON STREETSCAPE TYPE AND

2. REFER TO STANDARD 590.15 SHEET 1 FOR HARDSCAPE

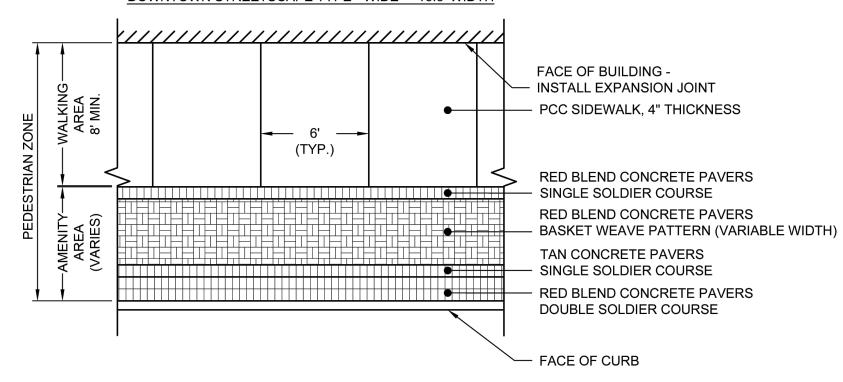
3. 3/4" PREMOLDED EXPANSION JOINT BETWEEN BUILDING AND SIDEWALK.

4. PAVERS SHALL BE INSTALLED PER MANUFACTURER'S

RECOMMENDATIONS. City of Naperville

PAVEMENT 15 DOWNTOWN STREETSCAPE **STANDARD** DOWNTOWN STREETSCAPE TYPE PAVEMENT DETAIL DETAIL REVISED: 4/24/2019 SHEET 2 OF 8

DOWNTOWN STREETSCAPE TYPE - WIDE > 16.5' WIDTH



FOR MORE INFORMATION ON STREETSCAPE TYPE AND LAYOUT REFER TO CHAPTER 2 OF THE DOWNTOWN STREETSCAPE STANDARD.

. REFER TO STANDARD 590.15 SHEET 1 FOR HARDSCAPE MATERIALS AND SPECIFICATIONS.

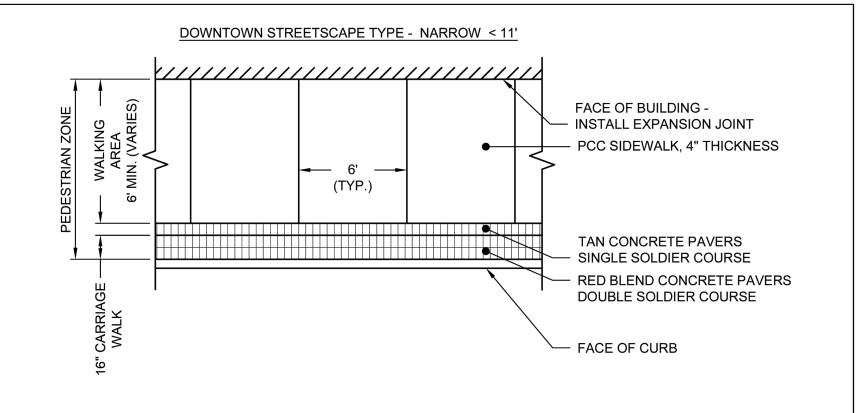
3. 3/4" PREMOLDED EXPANSION JOINT BETWEEN BUILDING AND

4. INSTALL PAVERS PER MANUFACTURER'S RECOMMENDATIONS.

5. TOOLED CONTROL JOINTS SHALL BE MADE AS SHOWN, AND A 1/2" PREMOLDED EXPANSION JOINT PLACED AT 42' INTERVALS.

6. MEDIUM BRUSH FINISH WITH TOOLED JOINTS. CALIFORNIA FINISH IS PROHIBITED. SAW CUT JOINTS ARE PROHIBITED.





- 1. FOR MORE INFORMATION ON STREETSCAPE TYPE AND LAYOUT REFER TO CHAPTER 2 OF THE DOWNTOWN STREETSCAPE STANDARD.
- 2. REFER TO STANDARD 590.15 SHEET 1 FOR HARDSCAPE
- MATERIALS AND SPECIFICATIONS.
- 3. 3/4" PREMOLDED EXPANSION JOINT BETWEEN BUILDING AND SIDEWALK. WATERPROOF CAULK SHALL BE APPLIED TO THE
- 4. INSTALL PAVERS PER MANUFACTURER'S RECOMMENDATIONS.
- 5. TOOLED CONTROL JOINTS SHALL BE MADE AS SHOWN, AND A 1/2" PREMOLDED EXPANSION JOINT PLACED AT 42' INTERVALS.
- 6. MEDIUM BRUSH FINISH WITH TOOLED JOINTS. CALIFORNIA FINISH IS PROHIBITED. SAW CUT JOINTS ARE PROHIBITED.

TOP	3/4".				
	City of Naperville		DOWNTOWN STREETSCAPE		PAVEMENT 15
	STANDARD	DOWNTOW	N STREETSCAPE TYPE - NARROW <	11' (PLAN)	590.15
	DETAIL	REVISED: 4/24/2019		SHEET 3 OF 8	

CHAP CITY CITY CITY

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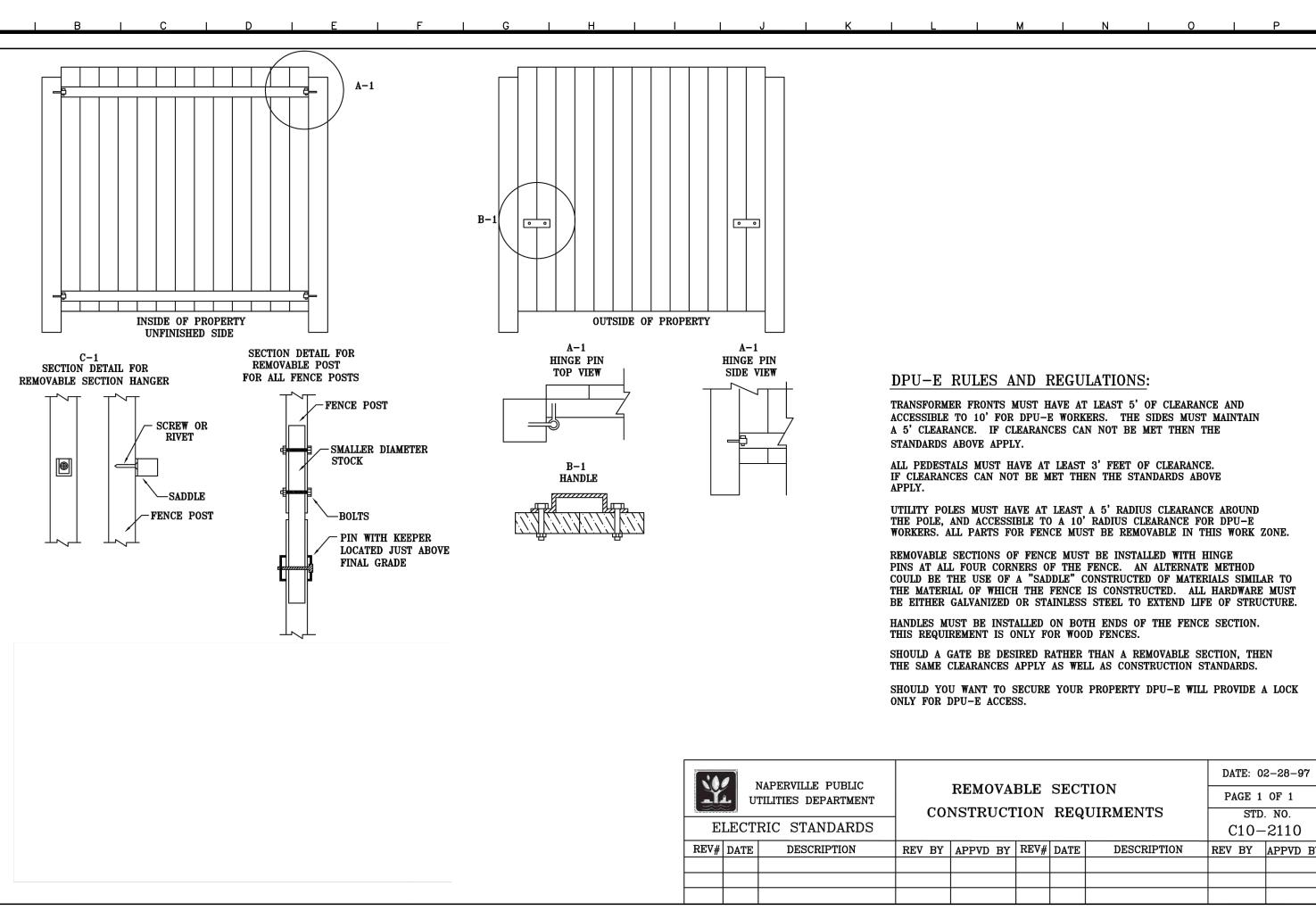
Kimley

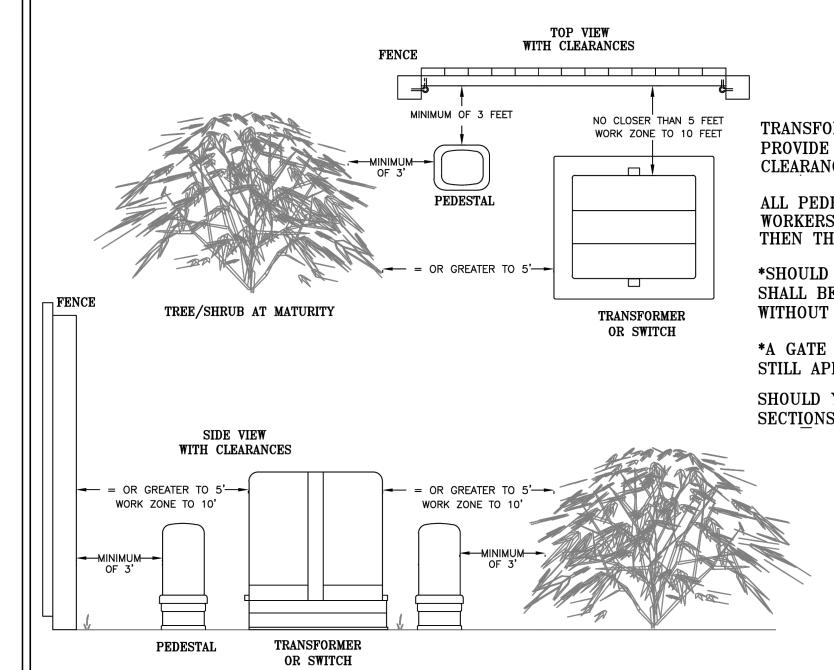
ERVILLE

ORIGINAL ISSUE: 10/01/2024 KHA PROJECT NO. 168865042

SHEET NUMBER

C-607A





DPU-E CLEARANCE REQUIREMENTS:

TRANSFORMER AND SWITCHGEAR FRONTS MUST HAVE AT LEAST 10' OF CLEARANCE TO PROVIDE A SAFE WORK ZONE FOR DPU-E WORKERS. THE SIDES MUST MAINTAIN 5' OF CLEARANCE. THIS INCLUDES FENCES*, TREES, SHRUBS, POSTS, SHEDS, OR OBSTACLES.

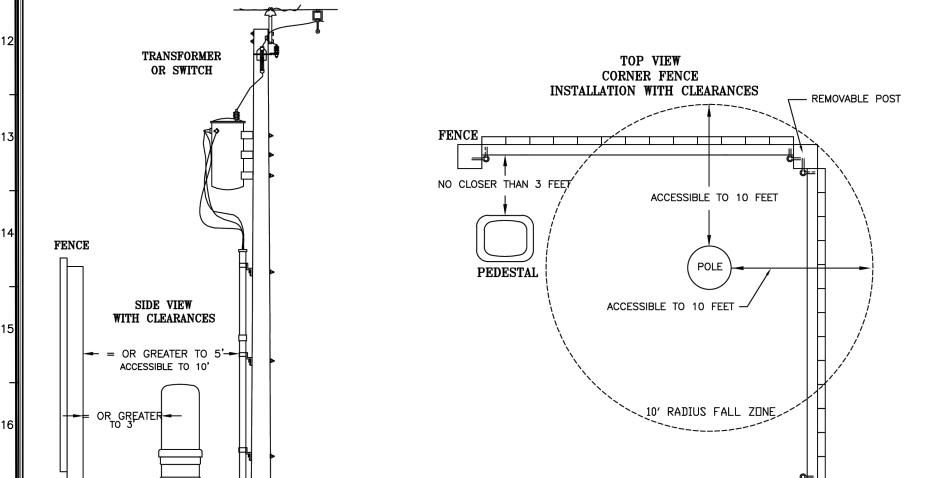
ALL PEDESTALS MUST MAINTAIN AT LEAST 3' OF CLEARANCE AROUND IT FOR DPU-E WORKERS. IN THE EVENT THESE CLEARANCES CAN NOT BE MET BY THE CUSTOMER THEN THE STANDARD ABOVE WILL APPLY AND DPU-E WILL MAINTAIN THIS CLEARANCE.

*SHOULD A PORTION OF THE FENCE FALL INTO THE 10' WORK ZONE THEN THE FENCE SHALL BE CONSTRUCTED IN A MANNER SO A PORTION OF THE FENCE CAN BE REMOVED WITHOUT THE USE OF TOOLS. (SEE DPU-E STANDARD C10-2110 FOR DESIRED METHOD).

*A GATE MAY BE USED RATHER THAN A REMOVABLE SECTION. THE SAME CLEARANCES STILL APPLY IN THIS APPLICATION AS WELL AS THE CONSTRUCTION STANDARDS.

SHOULD YOU WANT TO SECURE YOUR PROPERTY (ONLY ON THESE REMOVABLE FENCE SECTIONS & GATES), DPU-E WILL PROVIDE A LOCK TO ALLOW FOR DPU-E ACCESS ONLY.

	NAPERVILLE PUBLIC TILITIES DEPARTMENT	PADMOUNT EQUIPMENT CLEARANCE REQUIREMENTS		PAGE 1 OF 1		OF 1		
ELECT	RIC STANDARDS		·			C10-2130		
REV# DATE	DESCRIPTION	REV BY	APPVD BY	REV#	DATE	DESCRIPTION	REV BY	APPVD BY



DPU-ELECTRIC RULES AND REGULATIONS:

TRANSFORMER

UTILITY POLES MUST HAVE AT LEAST A 5' RADIUS CLEARANCE WITH ACCESSIBILITY TO A 10' RADIUS CLEARANCE FOR DPU-E WORKERS. ALL PEDESTALS MUST HAVE AT LEAST 3 FEET OF CLEARANCE.

SHOULD A PORTION OF THE FENCE FALL INTO THE 10' WORK ZONE THEN THE FENCE MUST BE CONSTRUCTED IN A MANNER SO THAT PORTION OF FENCE CAN BE REMOVED WITHOUT THE USE OF TOOLS. (SEE DPU-E STANDARD C10-2110 FOR DESIRED CONSTRUCTION METHOD).

A GATE MAY BE CONSTRUCTED RATHER THAN A REMOVABLE SECTION. THE SAME CLEARANCES STILL APPLY IN THIS APPLICATION AS WELL AS CONSTRUCTION STANDARDS.

SHOULD YOU WANT TO SECURE YOUR PROPERTY (ONLY ON THESE REMOVABLE SECTIONS AND GATES) DPU-E WILL PROVIDE A LOCK FOR DPU-E ACCESS ONLY.

NADI	ERVILLE PUBLIC	FENCE CLEADANCE DECLIDED			DATE: 08-11-1		8-11-11	
	TIES DEPARTMENT	FENCE CLEARANCE REQUIRED FOR UTILITY POLES		PAGE 1 OF 1				
ELECTRIC	C STANDARDS	FOR CHERT TOLES			STD. NO. C10-2140			
REV# DATE	DESCRIPTION	REV BY	APPVD BY	REV#	DATE	DESCRIPTION	REV BY	APPVD BY
		·						



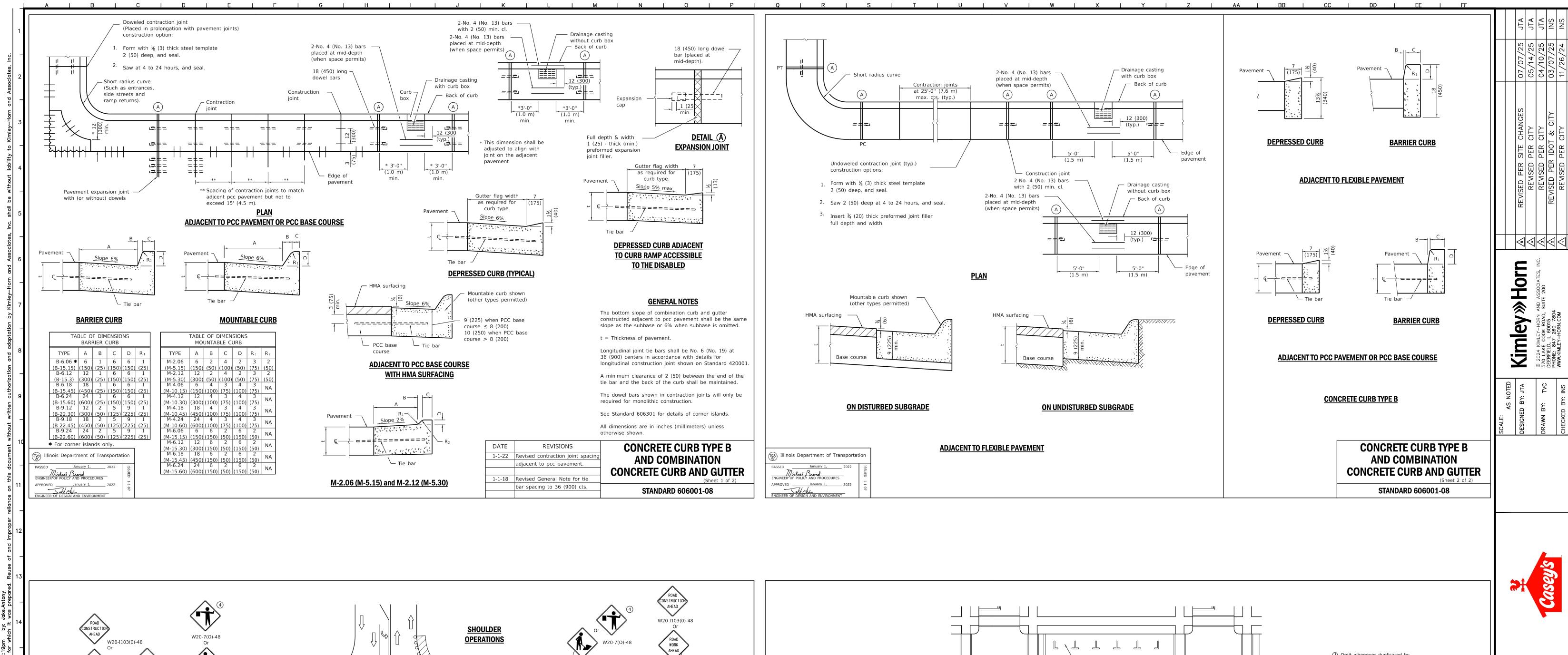
Kimley » Horn

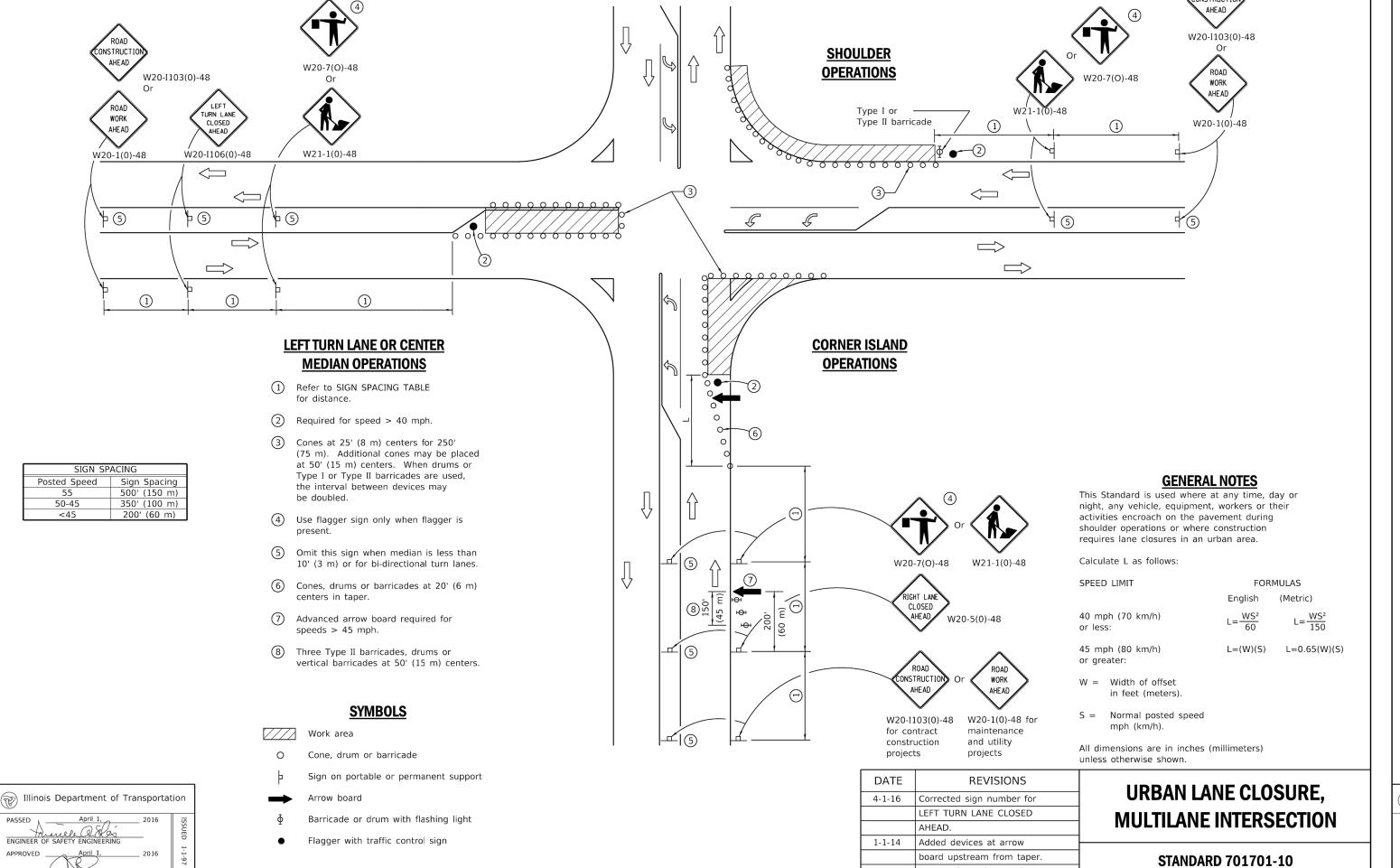
NSTRUCTION DETAILS -

NPERVILLE #653

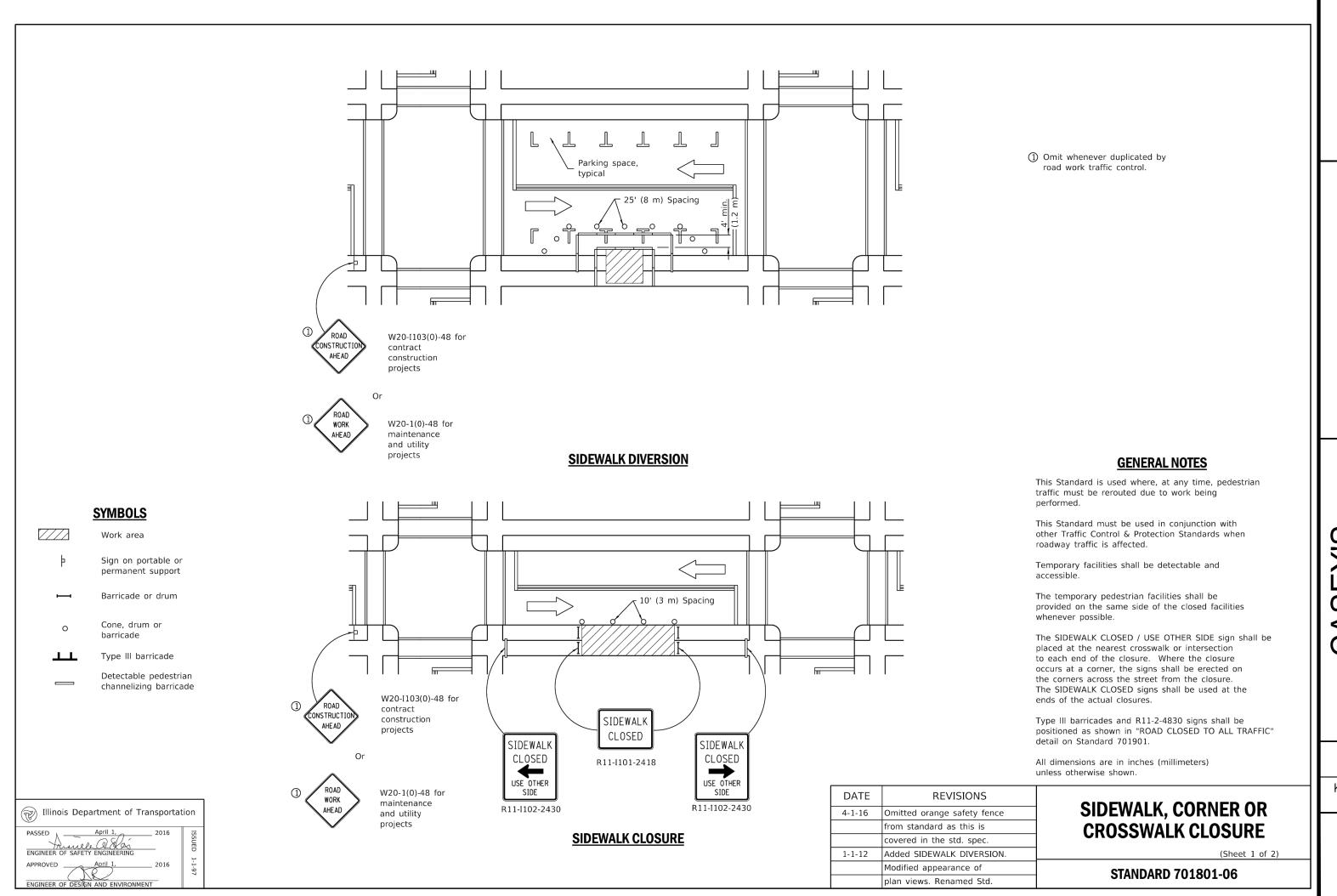
ORIGINAL ISSUE: 10/01/2024 KHA PROJECT NO. 168865042

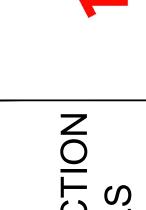
SHEET NUMBER





Rev. workers sign number

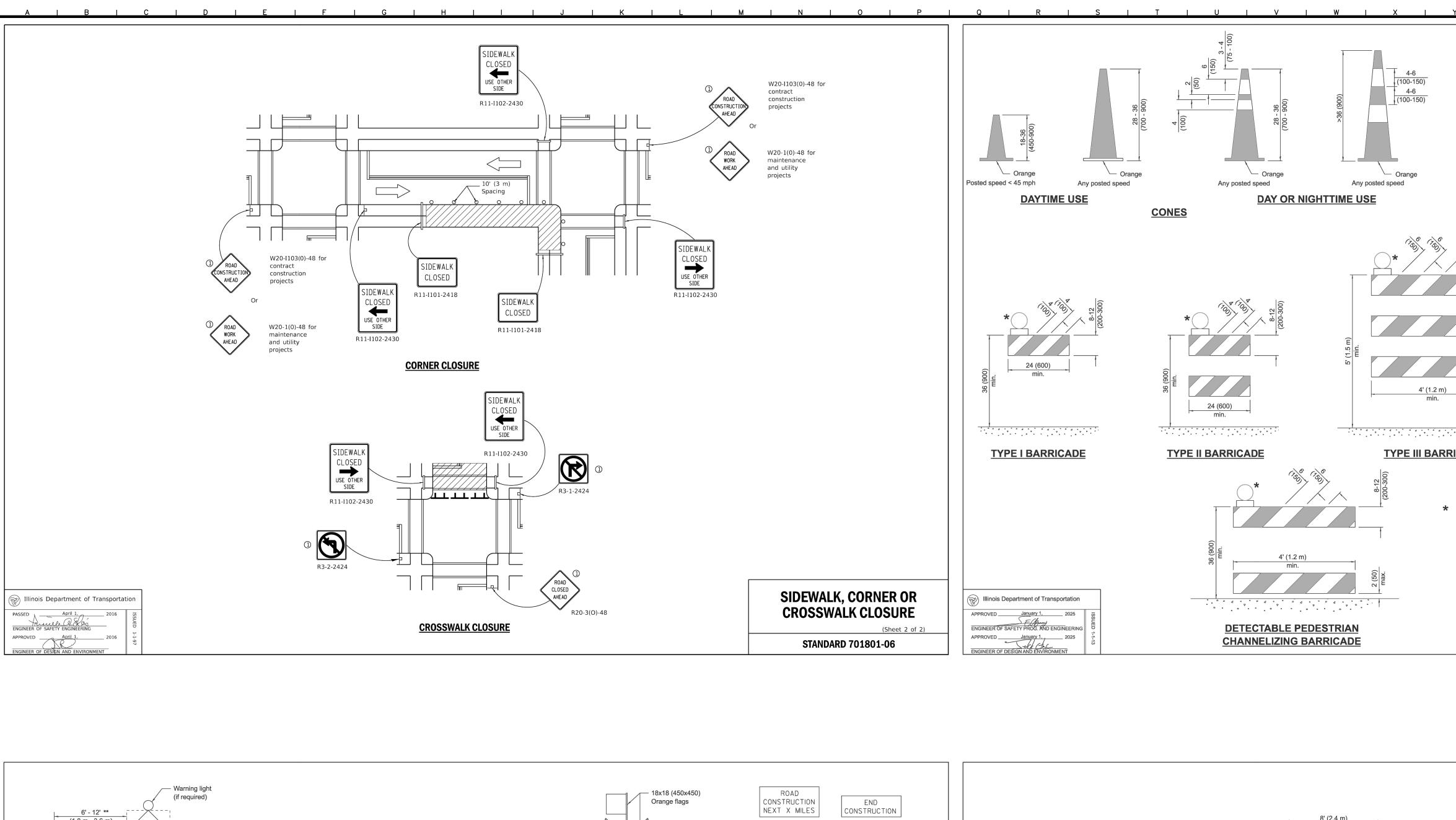


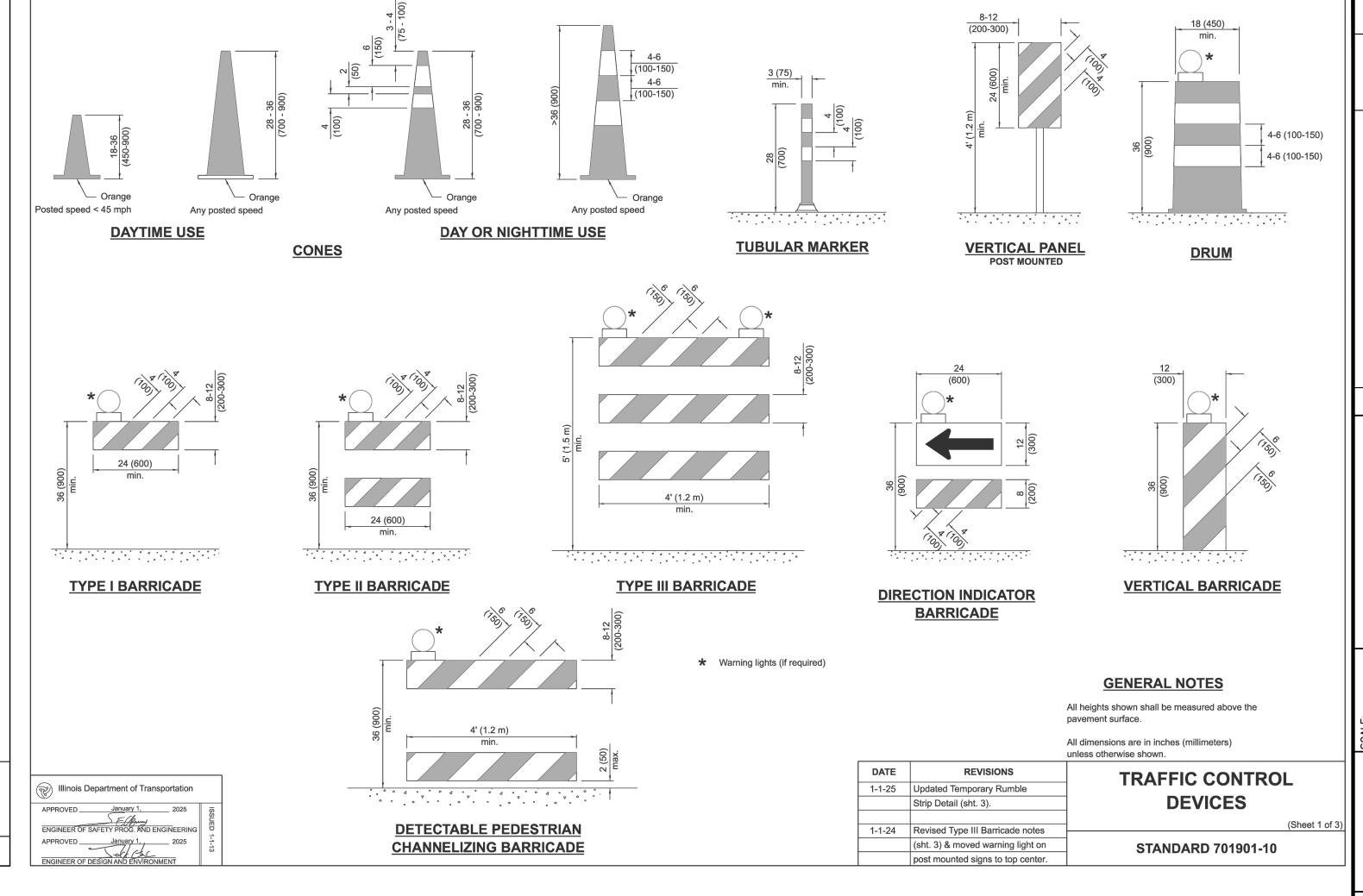


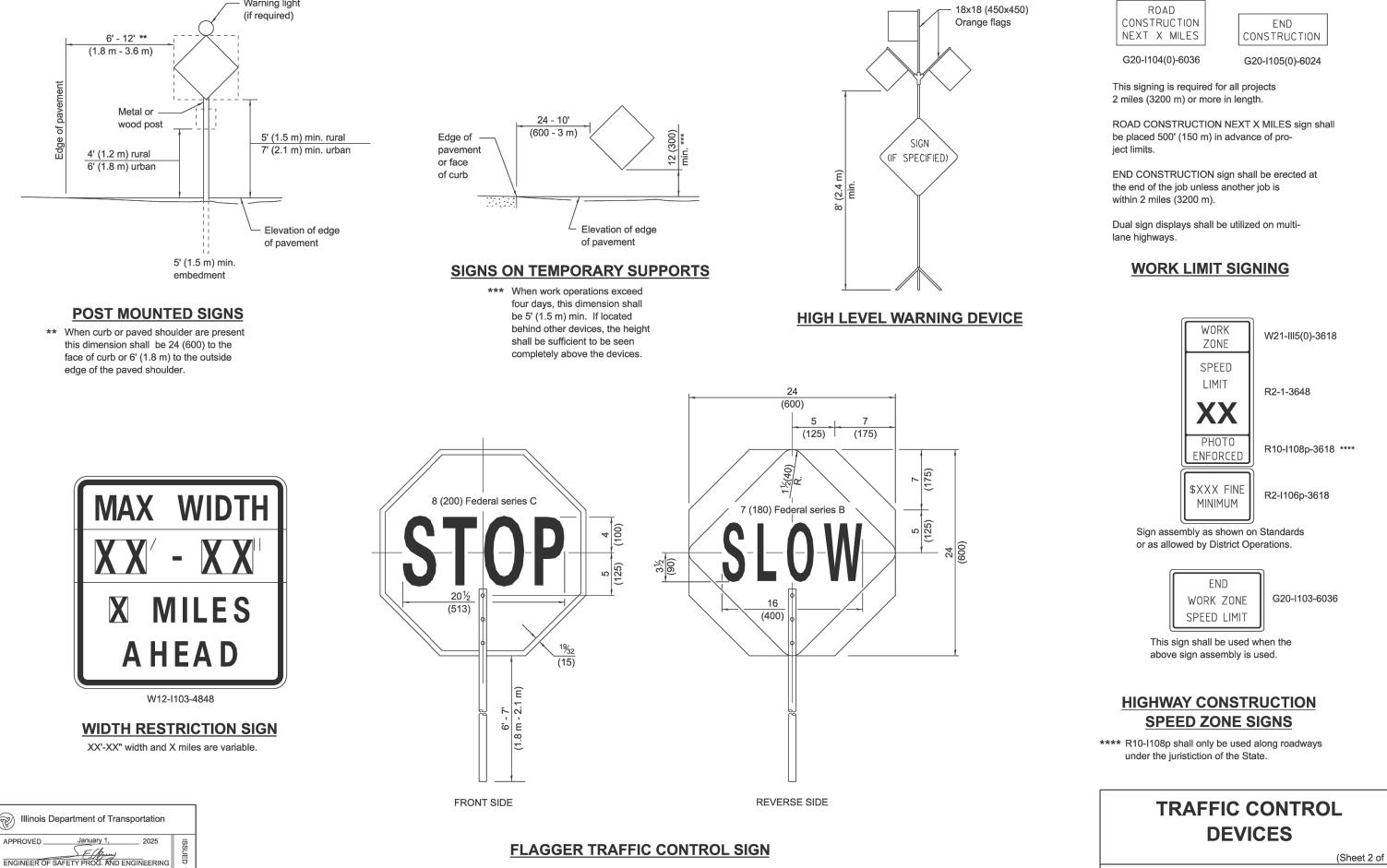
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ORIGINAL ISSUE: 10/01/2024

KHA PROJECT NO 168865042 SHEET NUMBER

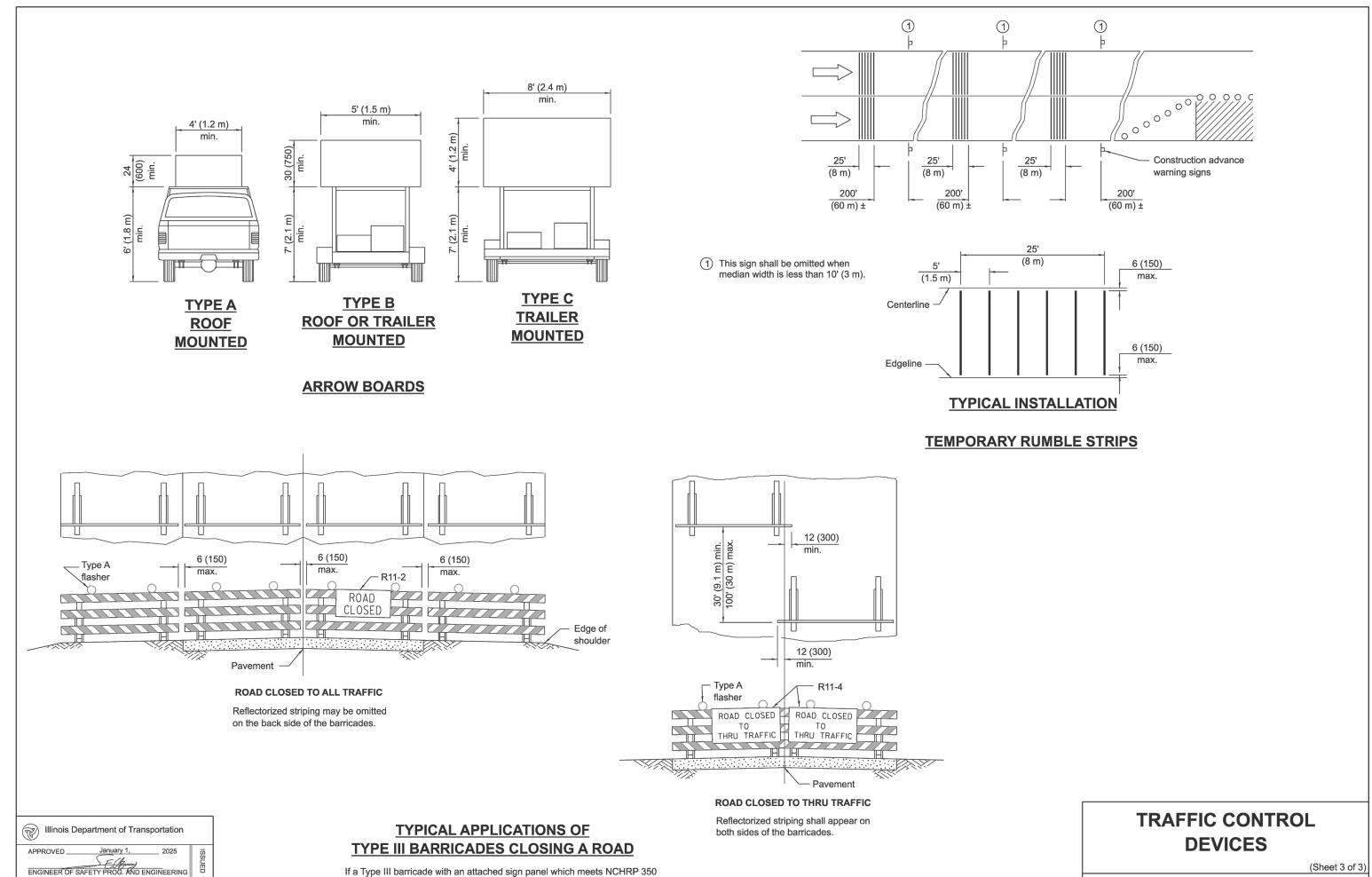






APPROVED January 1, 2025

ENGINEER OF DESIGN AND ENVIRONMENT



or MASH is not available, the sign may be mounted on an NCHRP 350

or MASH temporary sign support directly in front of the barricade.

APPROVED January 1,, 2025

STANDARD 701901-10



Kimley » Horn

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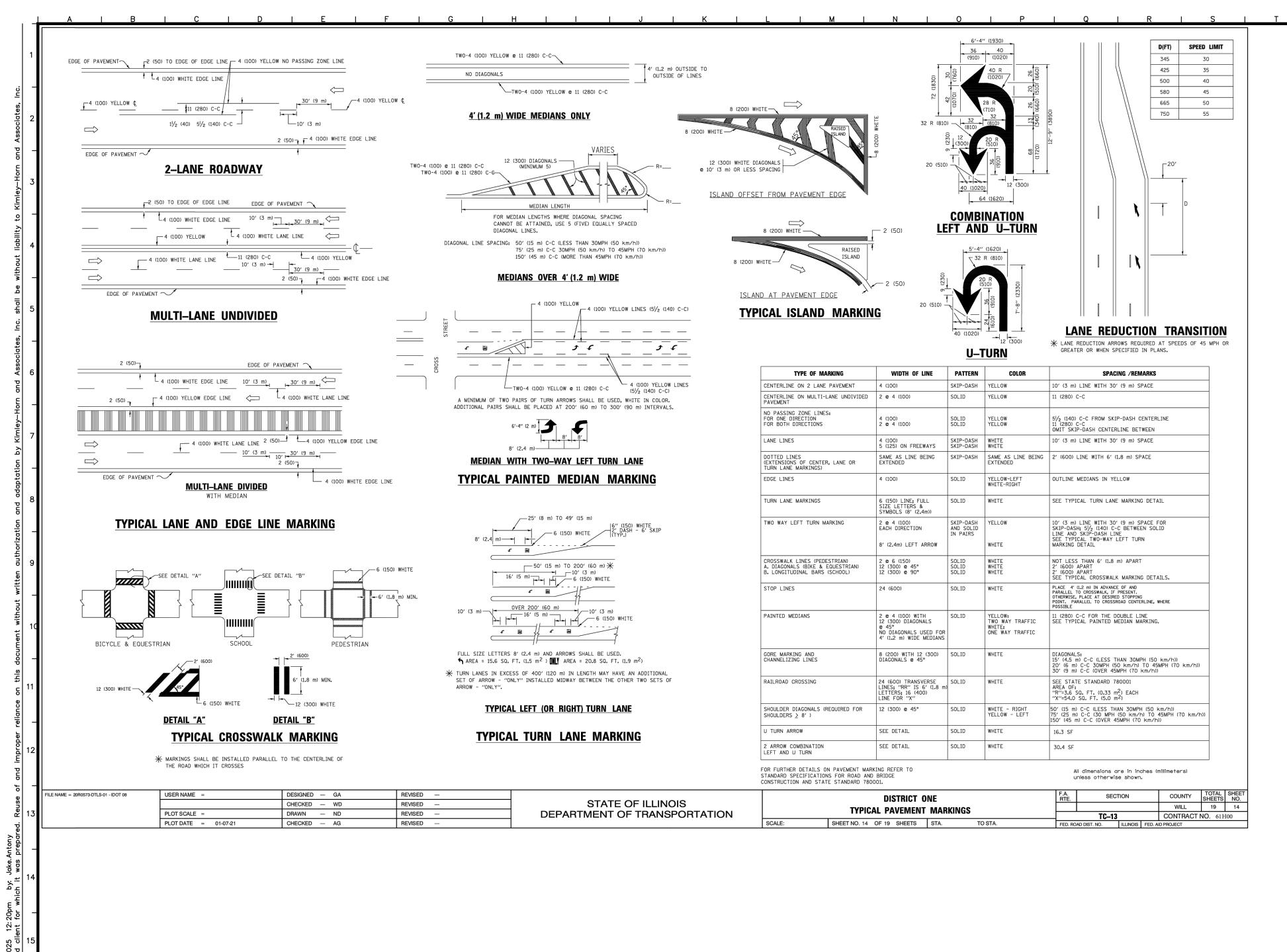
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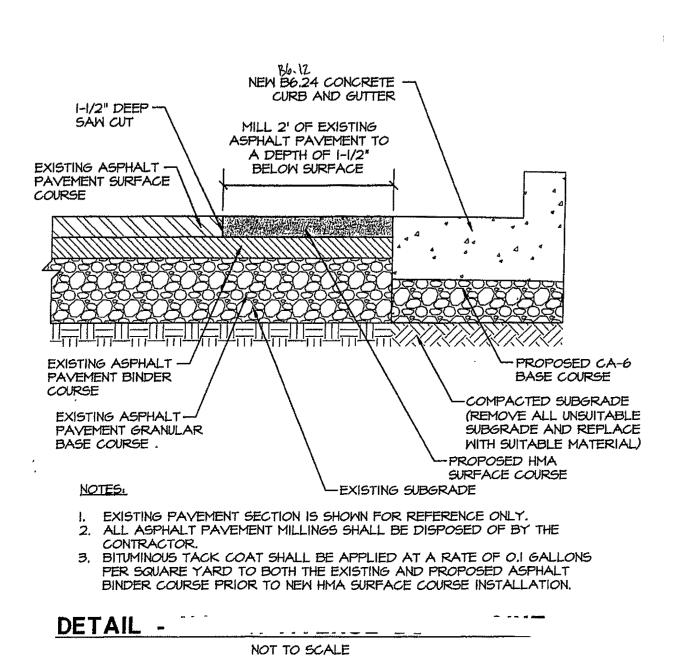
ORIGINAL ISSUE: 10/01/2024 KHA PROJECT NO. 168865042

SHEET NUMBER

C-610

STANDARD 701901-10





IDOT - PAVEMENT PATCHING AT CURB & GUTTER REMOVAL DETAIL N.T.S.

REVISED PER SITE CHANGES 07/07/
REVISED PER CITY 05/14/
REVISED PER CITY 04/10/
REVISED PER IDOT & CITY 03/07/
REVISED PER IDOT & CITY 11/26/
No. REVISED PER CITY 11/26/

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www.KIMLEY-HORN.COM

DESIGNED BY: JTA

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DRAWN BY: TVC 570 LA
DEERFI
PHONE
WWW.KI



IDOT CONSTRUCTION DETAILS

CASEY'S
APERVILLE #6531

ORIGINAL ISSUE:
10/01/2024

KHA PROJECT NO.
168865042

SHEET NUMBER