FINAL ENGINEERING PLANS DOG HAUS ROMEOVILLE NWC RENWICK ROAD & WEBER ROAD ROMEOVILLE, ILLINOIS 60446

UTILITY AND GOVERNING AGENCY CONTACTS

ENGINEERING DEPARTMENT VILLAGE OF ROMEOVILLE 615 ANDERSON DRIVE, ROMEOVILLE, IL 60446 TEL: (815) 886-1870 CONTACT: JONATHON ZABROCKI, P.E.

SANITARY SEWER SERVICE VILLAGE OF ROMEOVILLE 615 ANDERSON DRIVE. ROMEOVILLE, IL 60446 TEL: (815) 886-1870 CONTACT: ERIC BJORK

STORM SEWER SERVICE VILLAGE OF ROMEOVILLE 615 ANDERSON DRIVE, ROMEOVILLE, IL 60446 TEL: (815) 886-1870 CONTACT: ERIC BJORK

WATER SERVICE VILLAGE OF ROMEOVILLE 615 ANDERSON DRIVE, ROMEOVILLE, IL 60446 TEL: (815) 886-1870 CONTACT: ERIC BJORK

PROJECT TEAM

<u>DEVELOPER</u> KMR CONSTRUCTION, LLC 700 OSTERMAN AVENUE DEERFIELD, IL 60015 TEL: (847) 682-8810 CONTACT: MICHAEL FREIBURGER

<u>SURVEYOR</u> YOUNG-HOBBS AND ASSOCIATES 1202 CROSSLAND AVE. CLARKSVILLE, TN 37040 TEL: (931) 645-2524 CONTACT: DAVE R. HOBBS, P.L.S.

<u>Roadway authority</u> VILLAGE OF ROMEOVILLE 615 ANDERSON DRIVE, ROMEOVILLE, IL 60446 TEL: (815) 886-1870 CONTACT: ERIC BJORK

POWER COMPANY COMED

TEL: (630) 576-7094

NATURAL GAS COMPANY NICOR TEL: (630) 388-2362

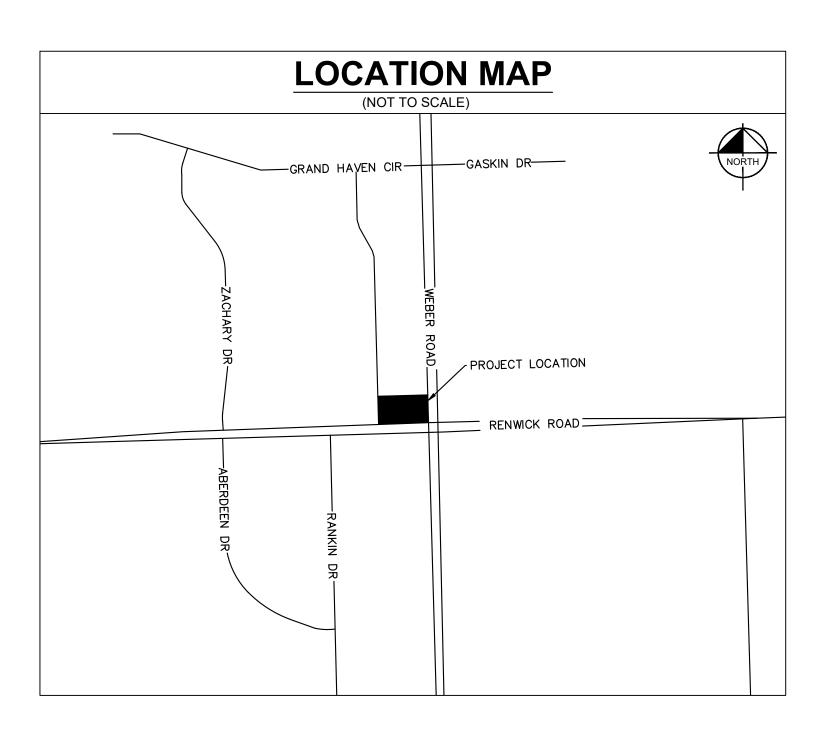
<u>TELEPHONE</u> AT&T TEL: (630) 573-5450

<u>CIVIL ENGINEER</u> KIMLEY-HORN AND ASSOCIATES, INC. 1001 WARRENVILLE RD, SUITE 350 LISLE, IL 60532 TEL: (630) 487-5550 EMAIL: ERIC.TRACY@KIMLEY-HORN.COM CONTACT: ERIC TRACY, P.E. EMAIL: PHILIP.NEAL@KIMLEY-HORN.COM CONTACT: PHILIP NEAL, P.E.

LANDSCAPE ARCHITECT KIMLEY-HORN AND ASSOCIATES, INC. 1001 WARRENVILLE ROAD, SUITE 350 LISLE, IL 60532 TEL: (630) 487-3450 EMAIL: KEITH.DEMCHINSKI@KIMLEY-HORN.COM CONTACT: KEITH DEMCHINSKI, P.L.A.

ILLINOIS.

PARCEL 2: NON-EXCLUSIVE EASEMENT FOR THE BENEFIT OF PARCEL 1 AS CREATED BY DECLARATION OF PROTECTIVE COVENANTS, CONDITIONS, RESTRICTIONS AND EASEMENTS RECORDED MAY 25, 2005 AS DOCUMENT R2005-85737 AS AMENDED BY FIRST AMENDMENT RECORDED SEPTEMBER 28, 2015 AS DOCUMENT R2015-83217 FOR PEDESTRIAN AND VEHICULAR OVER THE COMMON AREA AS DEFINED IN SAID DECLARATION.



	Sheet List Table
Sheet Number	Sheet Title
C0.0	TITLE SHEET
V0.0	SURVEY
C1.0	GENERAL NOTES
C2.0	EXISTING CONDITIONS & DEMOLITION PLAN
C3.0	SITE PLAN
C4.0	EROSION CONTROL PLAN
C4.1	EROSION CONTROL DETAILS
C5.0	GRADING PLAN
C6.0	UTILITY PLAN
C7.0	CONSTRUCTION DETAILS
C7.1	CONSTRUCTION DETAILS
C7.2	CONSTRUCTION DETAILS
L1.0	LANDSCAPE PLAN
L1.1	LANDSCAPE NOTES & DETAILS

LEGAL DESCRIPTION

PARCEL 1: LOT 1 IN ROSE RESUBDIVISION NUMBER 3, BEING A RESUBDIVISION OF LOT 7 IN ROSE SUBDIVISION AND LOT 6A IN ROSE RESUBDIVISION NUMBER 2, BEING SUBDIVISIONS OF PART OF THE SOUTHEAST 1/4 OF SECTION 18, TOWNSHIP 36 NORTH, RANGE 10 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED FEBRUARY 16, 2018 AS DOCUMENT NUMBER R2018011500, IN WILL COUNTY,

BENCHMARKS

SITE BENCHMARKS: (LOCATIONS SHOWN ON SURVEY) SBM #1 PK NAIL. WESTERN HALF OF SITE. ELEVATION = 649.97



CC I DD I FF

BB I

AA

DRAINAGE CERTIFICATION

I, ERIC TRACY, HEREBY CERTIFY THAT ADEQUATE STORM WATER STORAGE AND DRAINAGE CAPACITY HAS BEEN PROVIDED FOR THIS DEVELOPMENT, SUCH THAT SURFACE WATER FROM THE DEVELOPMENT WILL NOT BE DIVERTED ONTO AND CAUSE DAMAGE TO ADJACENT PROPERTY FOR STORMS UP TO AND INCLUDING THE ONE HUNDRED (100) YEAR EVENT, AND THAT THE DESIGN PLANS ARE IN COMPLIANCE WITH ALL APPLICABLE STATE, COUNTY, AND VILLAGE ORDINANCES."

DATED THIS _____ DAY OF _____, A.D., 2018.

ILLINOIS LICENSED PROFESSIONAL ENGINEER 062-067482 MY LICENSE EXPIRES ON NOVEMBER 30, 2019

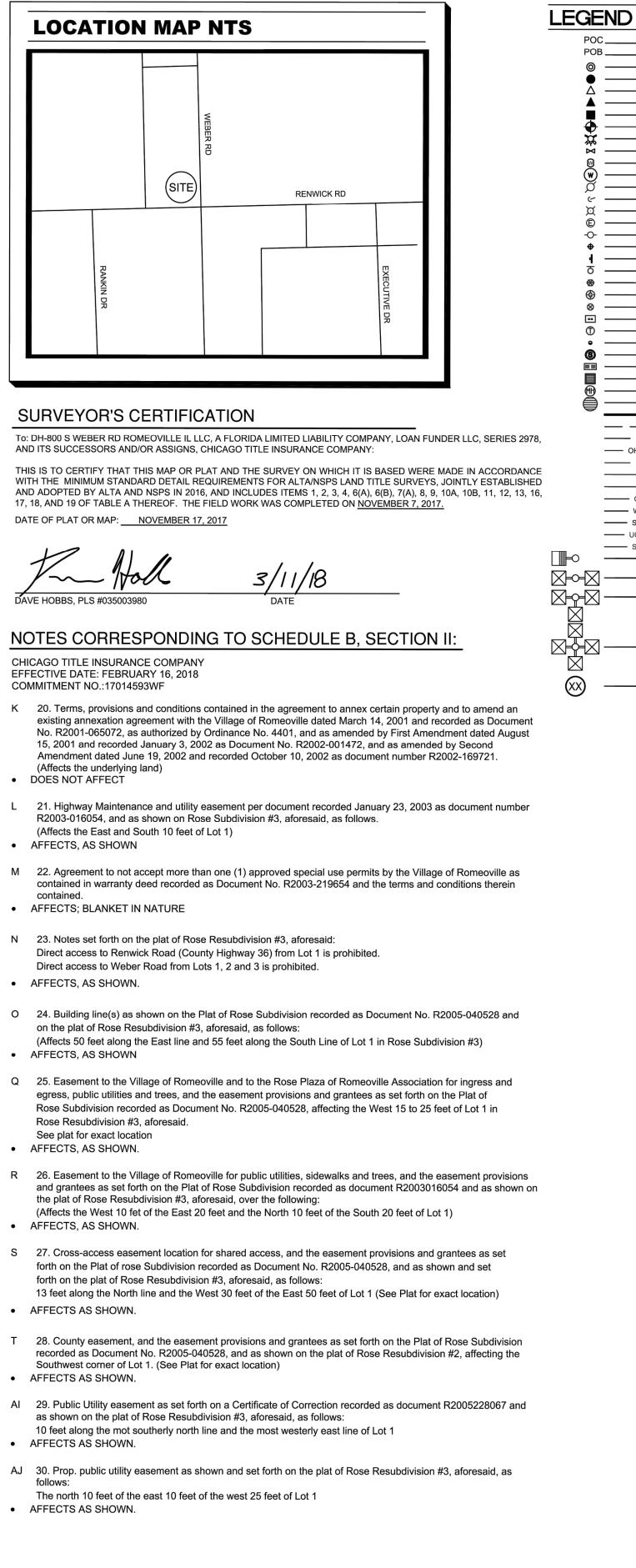
PROFESSIONAL ENGINEER'S CERTIFICATION

I, ERIC TRACY, A LICENSED PROFESSIONAL ENGINEER OF ILLINOIS, HEREBY CERTIFY THAT THIS SUBMISSION, PERTAINING ONLY TO THE "C" SERIES CIVIL SHEETS LISTED ABOVE, WAS PREPARED ON BEHALF OF KMR CONSTRUCTION, LLC 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 _____ DAY OF _____, A.D., 2018.

ILLINOIS LICENSED PROFESSIONAL ENGINEER 062-067482 MY LICENSE EXPIRES ON NOVEMBER 30, 2019

				8/15/2018 SMH	DATE BY
				VILLAGE COMMENTS	REVISIONS
	Drn	CIATES, INC. F 350.		$\overline{\nabla}$	No.
	Kimlev»Ho	© 2018 KIMLEY-HORN AND ASSOCIATES, INC. 1001 WARRENVILLE ROAD. SUITE 350.		WWW.KIMLEY-HORN.COM	
SCALE: AS NOTED	DESIGNED BY: SMH	DRAWN BY: SMH		СНЕСКЕД ВҮ: ЕЛТ	
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(DRIG 06, HA F			DALES I BOMEOVILLE, ILLINOIS, 6044	

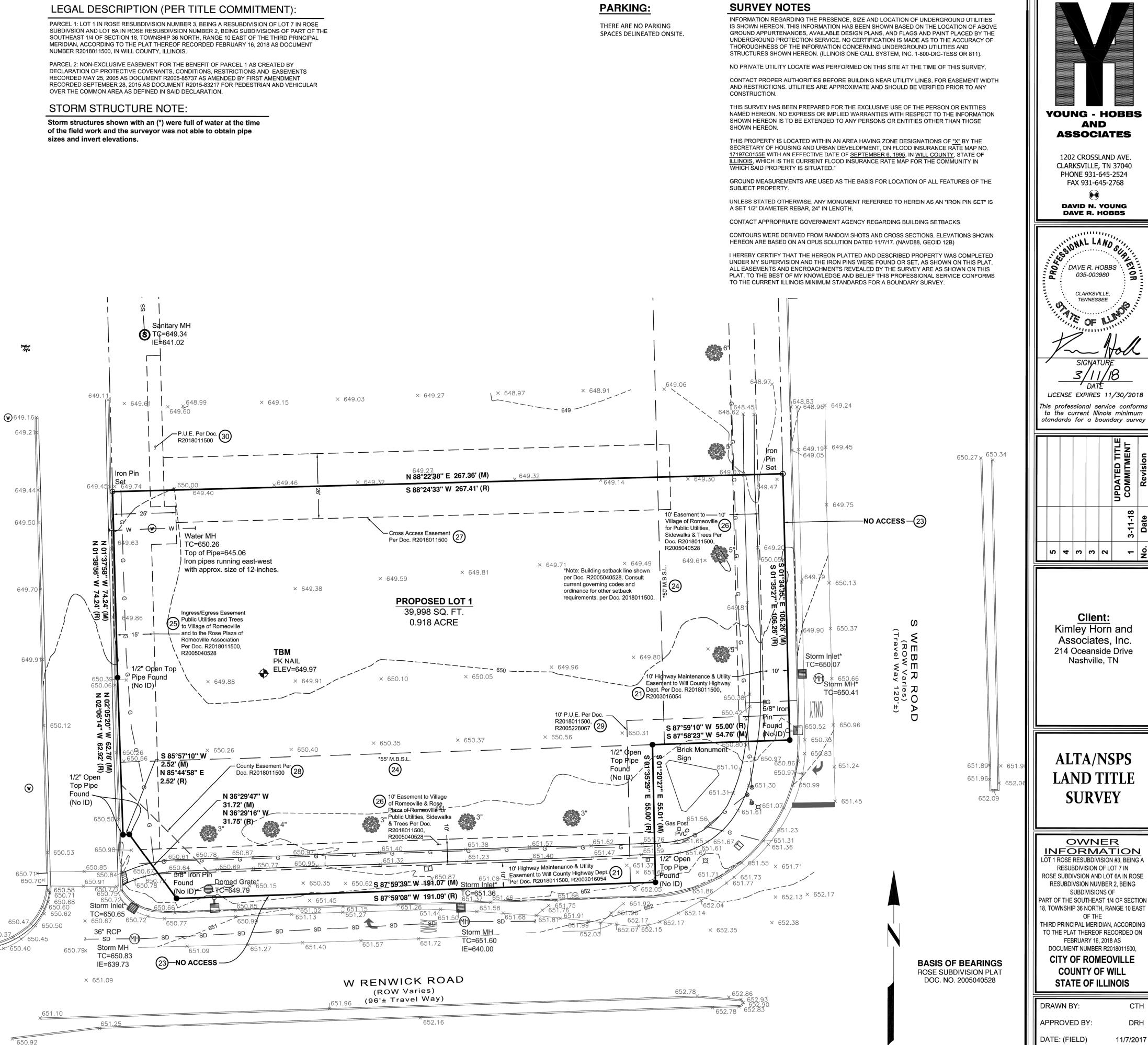


POC	POINT OF COMMENCEMENT
	POINT OF COMMENCEMENT
Ø	IRON PIN SET (IPS)
ĕ	IRON PIN FOUND, AS NOTED
Ă	P. K. NAIL SET (PKS)
Ā	P. K. NAIL FOUND (PKF), AS NOTED
	CONCRETE MONUMENT FOUND (CMF)
-	BENCHMARK, AS NOTED
Ť	FIRE HYDRANT
Σ	WATER VALVE
M	WATER METER
	WATER MAIN, MANHOLE
ď	UTILITY POLE
<u>مر</u>	GUY WIRE
Ø	TRAFFIC POLE
Ē	ELECTRIC METER
-Ŏ-	OUTLET (ELECTRIC)
\$	BOLLARD
4	SIGN, AS NOTED
ਠਂ	ROOF DRAIN
↔	IRRIGATION VALVE
G	GAS METER
×	GAS VALVE
00	FOC PULL BOX
Ū	TELEPHONE BOX
•	SEWER CLEAN OUT
8	SEWER CLEAN OUT
	CURB INLET
	GRATE INLET
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	UGT UGT UNDERGROUND TELEPHONE
	ST ST STORM SEWER PIPE, AS NOTED
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	LIGHT POLE(2-WAY)
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	LIGHT POLE(4-WAY)
177	
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650.3 650.31 650.38×

RECORDED MAY 25, 2005 AS DOCUMENT R2005-85737 AS AMENDED BY FIRST AMENDMENT



SCALE 1"=20'

V0.0

DATE: (OFFICE)

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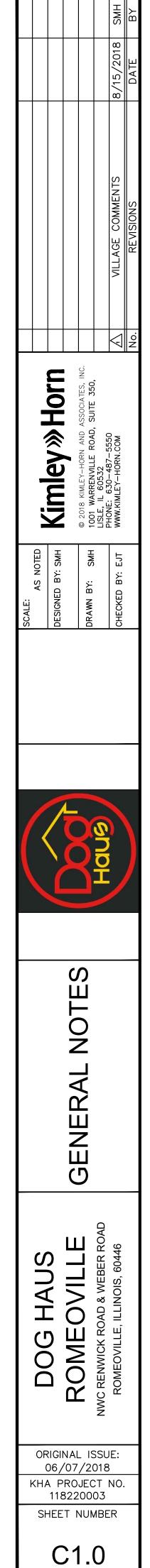
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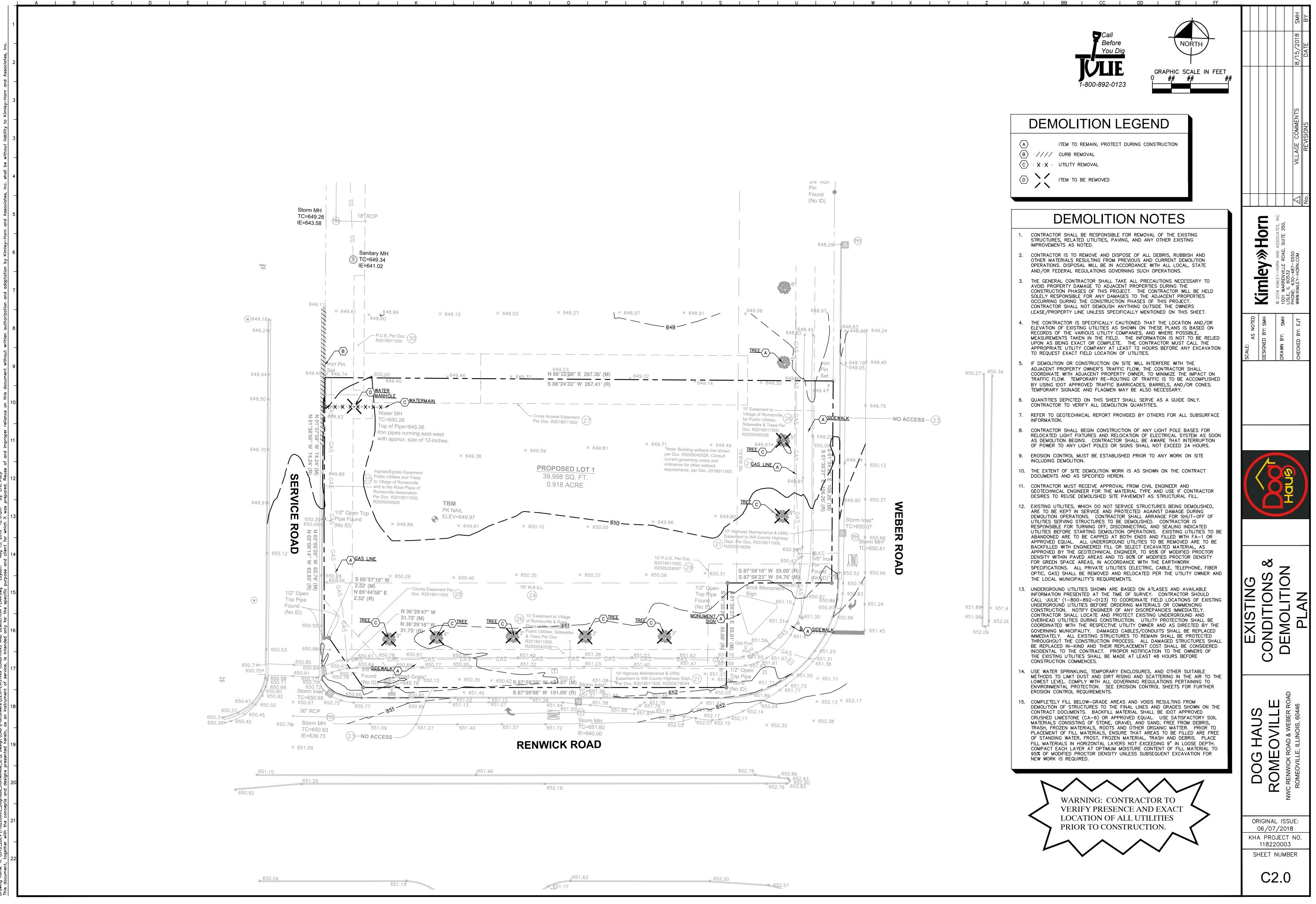
162-17

CORRESPONDS WITH SCHEDULE **B FROM TITLE COMMITMENT**

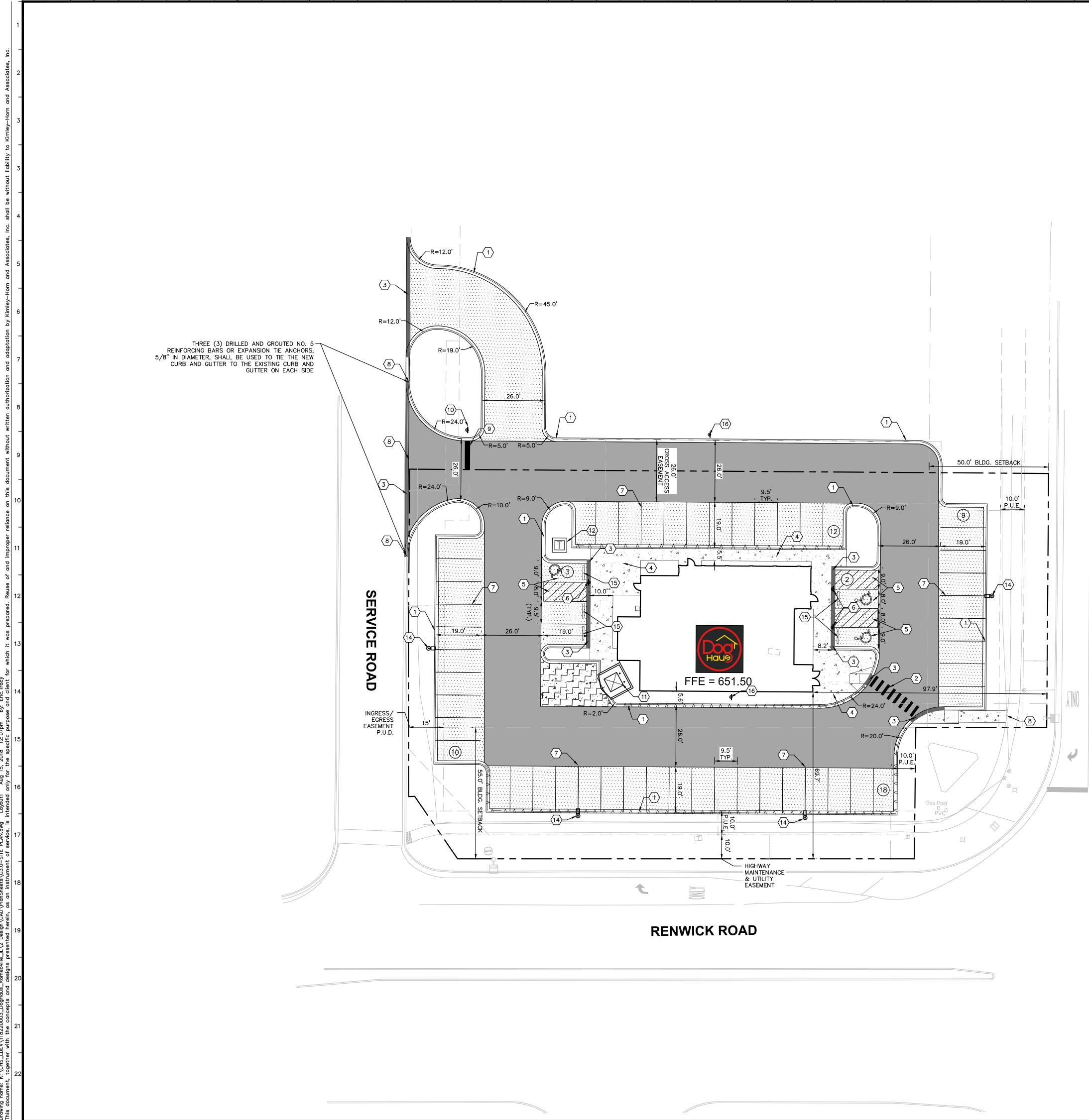
GENERAL NOTES	B-BOXES ARE TO BE ADJUSTED TO MEET FINISHED GRADE. THE CONTRACTOR'S MADE BY THE SEWER AND WATER CONTRACTOR, AND THE COST IS TO BE CON THESE ADJUSTMENTS TO FINISHED GRADE WILL NOT ALLEVIATE THE CONTRACTO
DRAWINGS WERE OBTAINED FROM A SURVEY PREPARED BY: YOUNG-HOBBS AND ASSOCIATES 1202 CROSSLAND AVE.	ADJUSTMENTS AS REQUIRED BY THE MUNICIPALITY UPON FINAL INSPECTION OF 30. HYDRANTS SHALL NOT BE FLUSHED DIRECTLY ONTO THE ROAD SUBGRADES. WE SHALL BE USED TO DIRECT THE WATER INTO LOT AREAS OR THE STORM SEWER
CLARKSVILLE, TE 37040 TEL: (931) 645–2524 COPIES OF THE SURVEY ARE AVAILABLE FROM THE ENGINEER. SITE CONDITIONS MAY HAVE CHANGED	DAMAGE TO THE ROAD SUBGRADE OR LOT GRADING DUE TO EXCESSIVE WATER EROSION FROM HYDRANT FLUSHING, OR FROM LEAKS IN THE WATER DISTRIBUTI REPAIRED BY THE CONTRACTOR FLUSHING OR USING THE HYDRANT AT THE CO EXPENSE. LEAKS IN THE WATER DISTRIBUTION SYSTEM SHALL BE THE RESPONS WATER DISTRIBUTION AND AND AND AND AND AND AND AND AND AN
SINCE THE SURVEY WAS PREPARED. CONTRACTORS TO VISIT SITE TO FAMILIARIZE THEMSELVES WITH THE CURRENT CONDITIONS. 2. COPIES OF SOILS INVESTIGATION REPORTS MAY BE OBTAINED FROM THE OWNER. ANY BRACING, SHEETING OR SPECIAL CONSTRUCTION METHODS DEEMED NECESSARY BY THE CONTRACTOR IN ORDER TO INSTALL	MAIN CONTRACTOR AND SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. 31. TRENCH BACKFILL WILL BE REQUIRED TO THE FULL DEPTH ABOVE SEWERS AND TWO (2) FEET HORIZONTAL OF PROPOSED OR EXISTING PAVEMENT.
THE PROPOSED IMPROVEMENTS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE PROJECT. ANY ADDITIONAL SOILS DATA NEEDED TO CONFIRM THE 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 SOILS INVESTIGATION.	32. IF SOFT, SPONGY, OR OTHER UNSUITABLE SOILS WITH UNCONFINED COMPRESSIN 0.5 TSF ARE ENCOUNTERED AT THE BOTTOM OF THE TRENCH, ALL SUCH MATE AND REPLACED WITH WELL-COMPACTED, CRUSHED LIMESTONE BEDDING MATERIA ENCOUNTERED, IT SHALL BE REMOVED TO AT LEAST SIX (6) INCHES BELOW TH
3. THE CONTRACTOR SHALL PHOTOGRAPH THE WORK AREA PRIOR TO CONSTRUCTION FOR THE PURPOSE OF DOCUMENTING EXISTING CONDITIONS.	TO ALLOW PROPER THICKNESS OF BEDDING. ANY UNDERCUTS OF TWO (2) FEET CONSIDERED INCIDENTAL TO THE CONTRACT. DEPTHS GREATER THAN TWO (2) F TO THE ENGINEER FOR APPROVAL PRIOR TO PROCEEDING.
 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. 	33. THE TRENCHES FOR PIPE INSTALLATION SHALL BE KEPT DRY AT ALL TIMES DU APPROPRIATE FACILITIES TO MAINTAIN THE DRY TRENCH SHALL BE PROVIDED E THE COST OF SUCH SHALL BE INCIDENTAL TO THE UNIT PRICE BID FOR THE IT DEWATERING, IF EMPLOYED, SHALL BE SUBMITTED TO AND APPROVED BY THE (IMPLEMENTATION. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR DEWATE
B. "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" AS PUBLISHED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA), LATEST EDITION.	CONSTRUCTION UNLESS APPROVED IN WRITING BY THE OWNER. 34. AFTER THE STORM SEWER SYSTEM HAS BEEN CONSTRUCTED, THE CONTRACTOR INLET PROTECTION EROSION CONTROL AT LOCATIONS INDICATED BY THE ENGINE
 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 VILLAGE OF ROMEOVILLE, UNITED OT FORMER NOTED ON THE DIAME. 	INLET PROTECTION WILL BE TO MINIMIZE THE AMOUNT OF SILTATION THAT NORI STORM SEWER SYSTEM FROM ADJACENT AND/OR UPSTREAM DRAINAGE AREAS. 35. AT THE CLOSE OF EACH WORKING DAY AND AT THE CONCLUSION OF CONSTRU
UNLESS OTHERWISE NOTED ON THE PLANS. E. THE NATIONAL ELECTRIC CODE. F. ALL APPLICABLE PROVISIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT ARE HEREIN	DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBI 36. EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH IEPA STANDARDS FOR SOIL EROSION AND SEDIMENTATION CONTROL AND SHALL BE CONTRACTOR AND REMAIN IN PLACE UNTIL A SUITABLE GROWTH OF GRASS, AG
INCORPORATED BY REFERENCE. 5. STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, AND RECURRING SPECIAL PROVISIONS, CONSTRUCTION PLANS, AND SUBSEQUENT DETAILS ARE ALL TO BE CONSIDERED AS PART OF THE	ENGINEER, HAS DEVELOPED. 37. THE CONTRACTOR SHALL CONFORM TO ALL EROSION CONTROL REQUIREMENTS ILLINOIS ENVIRONMENTAL PROTECTION AGENCY THROUGH THE NPDES PHASE II
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. 3. 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	REQUIREMENTS AND GOVERNING MUNICIPALITY. THE CONTRACTOR SHALL INSTA EROSION CONTROL MEASURES AS INDICATED ON THE EROSION CONTROL DRAMI AS WELL AS THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPAF ASSOCIATES, INC. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING THE THE SWPPP AT A MINIMUM, INCLUDING EROSION CONTROL MEASURES AND INSF
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.	REQUIRED BY THE IEPA NPDES PHASE II PERMIT PROGRAM REQUIREMENTS. TH RESPONSIBLE FOR KEEPING ALL SWPPP DOCUMENTATION CURRENT AND READIL PROJECT SITE AT ALL TIMES FOR REVIEW BY THE OWNER, ENGINEER, AND REG KIMLEY-HORN AND ASSOCIATES, INC. IS NOT RESPONSIBLE FOR THE ACTS OR
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 BEFORE DOING ANY WORK. OTHERWISE, THE CONTRACTOR	CONTRACTOR, SUBCONTRACTORS OR SUPPLIERS, WHICH CONTRIBUTE TO DEFICI ANY VIOLATIONS RESULTING FROM INADEQUATE EROSION CONTROL PROTECTION 38. THE PAVEMENT SHALL BE KEPT FREE OF MUD AND DEBRIS AT ALL TIMES. IT I
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	TO KEEP A SWEEPER ON-SITE AT ALL TIMES. 39. ALL DISTURBED AREAS OF THE RIGHT-OF-WAY SHALL BE FULLY RESTORED TO CONDITIONS WITH A MINIMUM OF SIX (6) INCHES OF TOPSOIL, SEEDING, AND M STANDARDS.
QUESTIONS ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE. 3. THE CONTRACTOR SHALL SUBSCRIBE TO ALL GOVERNING REGULATIONS AND SHALL OBTAIN ALL	40. ALL PROPOSED GRADES SHOWN ON PLANS ARE FINISHED SURFACE ELEVATIONS OTHERWISE.
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)	41. ALL TESTING SHALL BE THE RESPONSIBILITY AND EXPENSE OF THE CONTRACTO THE MUNICIPALITY OR ENGINEER, COPIES OF ALL TEST RESULTS SHALL BE PROF FOR REVIEW AND APPROVAL.
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	 42. PROVIDE SMOOTH VERTICAL CURVES THROUGH HIGH AND LOW POINTS INDICATE PROVIDE UNIFORM SLOPES BETWEEN NEW AND EXISTING GRADES. AVOID RIDGES 43. WHEN REQUIRED, THE CONTRACTOR SHALL NOTIFY THE OWNER WHEN RECORD PREPARED. RECORD DRAWINGS SHALL INDICATE THE FINAL LOCATION AND LAY
THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS. 10. CONSTRUCTION MATERIALS AND/OR EQUIPMENT MAY NOT BE STORED IN THE RIGHT-OF-WAY, AS DIRECTED BY THE OWNER.	IMPROVEMENTS, INCLUDING VERIFICATION OF ALL CONCRETE PADS, INVERT, RIM ELEVATIONS, AND INCORPORATE ALL FIELD DESIGN CHANGES APPROVED BY TH 44. BEFORE ACCEPTANCE, ALL WORK SHALL BE INSPECTED BY THE VILLAGE OF RC
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.	EARTHWORK NOTES
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.	 GENERAL 1.1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE SOIL AND GR AT THE SITE.
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:	1.2. ANY QUANTITIES IN THE BID PROPOSAL ARE INTENDED AS A GUIDE FOR THE DETERMINING THE SCOPE OF THE COMPLETED PROJECT. IT IS THE CONTRACT DETERMINE ALL MATERIAL QUANTITIES AND BE KNOWLEDGEABLE OF ALL SITE
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 VILLAGE OF ROMEOVILLE, AND THE OWNER SUFFICIENTLY IN ADVANCE OF CONSTRUCTION.	1.3. THE CONTRACTOR WILL NOTE THAT THE ELEVATIONS SHOWN ON THE CONSTR FINISHED GRADE AND THAT PAVEMENT THICKNESS, TOPSOIL, ETC., MUST BE 1.4. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE DURING CONSTRUCTION STORMWATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS. THE
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	PROPER DRAINAGE WILL NEGATE ANY POSSIBLE ADDED COMPENSATION REQU UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF. FINAL GRADES SH AGAINST DAMAGE FROM EROSION, SEDIMENTATION, AND TRAFFIC.
CONTRACTOR. 15. ALL CONTRACTORS SHALL KEEP ACCESS AVAILABLE AT ALL TIMES FOR ALL EMERGENCY TRAFFIC, AS DIRECTED BY THE MUNICIPALITY.	1.5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE SOL SEDIMENTATION CONTROL MEASURES. THE INITIAL ESTABLISHMENT OF EROSIC AND THE PLACEMENT OF SILT AND FILTER FENCING, ETC., TO PROTECT ADJA WETLANDS, ETC., SHALL OCCUR BEFORE GRADING BEGINS.
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 THE CONTRACTOR AT THE CONTRACTOR'S OWN	1.6. PRIOR TO COMMENCEMENT OF GRADING ACTIVITIES, THE CONTRACTOR SHALL FENCE AROUND ANY TREE DESIGNATED TO BE PRESERVED. SAID FENCE SHA CENTERED AROUND THE TREE, THE DIAMETER OF WHICH SHALL BE SUCH TH (EXTENT OF FURTHEST EXTENDING BRANCHES) SHALL BE WITHIN THE FENCE
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	GRADE WITHIN THE FENCED AREA SHALL NOT BE DISTURBED. 2. TOPSOIL EXCAVATION INCLUDES: 2.1. EXCAVATION OF TOPSOIL AND OTHER STRUCTURALLY UNSUITABLE MATERIALS
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.	21.1 ENAMATING OF 100 SOLE ARTH EXCAVATION OR COMPACTED EARTH FILL MATERI. SHALL BE REMOVED PRIOR TO STRIPPING TOPSOIL OR FILLING AREAS. 2.2. PLACEMENT OF EXCAVATED MATERIAL IN OWNER-DESIGNATED AREAS FOR FU
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	TO BE LANDSCAPED AND THOSE AREAS NOT REQUIRING STRUCTURAL FILL M NECESSARY EROSION CONTROL MEASURES FOR STOCKPILE. 2.3. TOPSOIL STOCKPILED FOR RESPREAD SHALL BE FREE OF CLAY AND SHALL I TRANSITIONAL MATERIAL BETWEEN THE TOPSOIL AND CLAY. THE TRANSITION
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 AN APPROVED TREE PAINT. 19. ALL EXISTING PAVEMENT OR CONCRETE TO BE REMOVED SHALL BE SAWCUT ALONG LIMITS OF PROPOSED REMOVAL BEFORE COMMENCEMENT OF PAVEMENT REMOVAL.	USED IN NON-STRUCTURAL FILL AREAS OR DISPOSED OF OFF-SITE. 2.4. TOPSOIL RESPREAD SHALL INCLUDE HAULING AND SPREADING SIX (6) INCHES OVER AREAS TO BE LANDSCAPED WHERE SHOWN ON THE PLANS OR AS DIR
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	2.5. MODERATE COMPACTION IS REQUIRED IN NON-STRUCTURAL FILL AREAS. 3. EARTH EXCAVATION INCLUDES:
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	3.1. EXCAVATION OF SUBSURFACE MATERIALS WHICH ARE SUITABLE FOR USE AS EXCAVATION SHALL BE TO WITHIN A TOLERANCE OF 0.1 FEET OF THE PLAN WHILE MAINTAINING PROPER DRAINAGE. THE TOLERANCE WITHIN PAVEMENT A THAT THE EARTH MATERIALS SHALL "BALANCE" DURING THE FINE GRADING
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	3.2. PLACEMENT OF SUITABLE MATERIALS SHALL BE WITHIN THOSE AREAS REQUI ORDER TO ACHIEVE THE PLAN SUBGRADE ELEVATIONS TO WITHIN A TOLERAN MATERIALS SHALL BE PLACED IN LOOSE LIFTS THAT SHALL NOT EXCEED EIG THICKNESS, AND THE WATER CONTENT SHALL BE ADJUSTED IN ORDER TO A
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.	COMPACTION. 3.3. STRUCTURAL FILL MATERIAL MAY BE PLACED WITHIN THOSE PORTIONS OF TH STRUCTURAL FILL, WITHIN SIX (6) INCHES OF THE PLAN FINISHED GRADE ELI
23. NO UNDERGROUND WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE COVERED UNTIL IT HAS BEEN APPROVED BY THE VILLAGE OF ROMEOVILLE. APPROVAL TO PROCEED MUST BE OBTAINED FROM THE VILLAGE OF ROMEOVILLE PRIOR TO INSTALLING PAVEMENT BASE, BINDER, AND SURFACE, AND PRIOR TO POURING ANY CONCRETE AFTER FORMS HAVE BEEN SET, AS NECESSARY.	REQUIRING STRUCTURAL FILL, HOWEVER, THIS MATERIAL SHALL NOT BE PLAC OTHER UNSUITABLE MATERIALS UNLESS SPECIFICALLY DIRECTED BY A SOILS CONCURRENCE OF THE OWNER. 3.4. COMPACTION OF SUITABLE MATERIALS SHALL BE TO AT LEAST 93% OF THE
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	 DENSITY WITHIN PROPOSED PAVEMENT AREAS, SIDEWALK, ETC. COMPACTION OF THE MODIFIED PROCTOR WITHIN PROPOSED BUILDING PAD AREAS. UNSUITABLE MATERIAL: UNSUITABLE MATERIALS SHALL BE CONSIDERED MATER
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	FOR THE SUPPORT OF PAVEMENT AND BUILDING CONSTRUCTION, AND IS ENCO TOPSOIL DEPTHS AND THE PROPOSED SUBGRADE ELEVATION. THE DECISION TO AND TO WHAT EXTENT SHALL BE MADE BY THE ENGINEER WITH THE CONCURR
CONSTRUCTED AS PART OF THE CONTRACTOR'S PROJECT. 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	 5. MISCELLANEOUS. THE CONTRACTOR SHALL: 5.1. SPREAD AND COMPACT UNIFORMLY TO THE DEGREE SPECIFIED ALL EXCESS COMPLETION OF THE UNDERGROUND IMPROVEMENTS.
UTILITIES SHOWN ON THE PLANS. THE ENGINEER DOES NOT WARRANT THE LOCATION OF ANT EXISTING UTILITIES SHOWN ON THE PLANS. THE CONTRACTOR SHALL CALL J.U.L.I.E. (1-800-892-0123) AND THE VILLAGE OF ROMEOVILLE FOR UTILITY LOCATIONS.	5.2. SCARIFY, DISC, AERATE, AND COMPACT, TO THE DEGREE SPECIFIED, THE UPF OF THE SUITABLE SUBGRADE MATERIAL IN ALL AREAS THAT MAY BE SOFT E CONTENT. THIS APPLIES TO CUT AREAS AS WELL AS FILL AREAS.
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 CENERAL CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.	 5.3. PROVIDE WATER TO ADD TO DRY MATERIAL IN ORDER TO ADJUST THE MOIST PURPOSE OF ACHIEVING THE SPECIFIED COMPACTION. 5.4. BACKFILL THE CURB AND GUTTER AFTER ITS CONSTRUCTION AND PRIOR TO BASE COURSE MATERIAL.
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.	6. TESTING AND FINAL ACCEPTANCE 6.1. THE CONTRACTOR SHALL PROVIDE AS A MINIMUM A FULLY LOADED SIX-WHE
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	FOR PROOF ROLLING THE PAVEMENT SUBGRADE PRIOR TO THE PLACEMENT OF AND THE BASE MATERIAL. THIS SHALL BE WITNESSED BY THE ENGINEER PAVING SPECIFICATION.) 6.2. ANY UNSUITABLE AREA ENCOUNTERED AS A RESULT OF PROOF ROLLING SHA
THE CONTRACTOR'S WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT, AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.	6.2. ANY UNSUITABLE AREA ENCOUNTERED AS A RESULT OF PROOF ROLLING SHA REPLACED WITH SUITABLE MATERIAL OR OTHERWISE CORRECTED AND APPROV

AL NOTES	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	PAVING NOTES	5. ALL SANITARY SEWERS ARE TO BE CONSTRUCTED USING A LASER INSTRUMENT TO MAINTAIN LINE AND GRADE.	16.1.2. WATERMAINS MAY BE LAID CLOSER THAN TEN (10) FEET TO A SEWER LINE WHEN: 16.1.2.1. LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF TEN (10) FEET;	
RE OBTAINED FROM A SURVEY PREPARED BY: -HOBBS AND ASSOCIATES	ADJUSTMENTS AS REQUIRED BY THE MUNICIPALITY UPON FINAL INSPECTION OF THE PROJECT. 30. HYDRANTS SHALL NOT BE FLUSHED DIRECTLY ONTO THE ROAD SUBGRADES. WHENEVER POSSIBLE, HOSES	1.1. PAVING WORK INCLUDES FINAL SUBGRADE SHAPING, PREPARATION, AND COMPACTION; PLACEMENT OF SUBBASE OR BASE COURSE MATERIALS; BITUMINOUS BINDER AND/OR SURFACE COURSES; FORMING,	6. CONNECTIONS TO EXISTING SANITARY SEWER SYSTEM SHALL NOT BE DONE UNTIL AUTHORIZED BY THE VILLAGE OF ROMEOVILLE.	16.1.2.1. LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF TEN (10) FEET; 16.1.2.2. THE WATERMAIN INVERT IS AT LEAST EIGHTEEN (18) INCHES ABOVE THE CROWN OF THE SEWER;	
ROSSLAND AVE. SVILLE, TE 37040 (931) 645–2524	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	 FINISHING, AND CURING CONCRETE PAVEMENT, CURBS, AND WALKS; AND FINAL CLEAN-UP AND ALL RELATED WORK. 1.2. COMPACTION REQUIREMENTS [REFERENCE ASTM D-1557 (MODIFIED PROCTOR)]: SUBGRADE = 93%; 	7. WATERMAINS SHALL BE SEPARATED FROM SANITARY SEWERS AND STORM SEWERS IN ACCORDANCE WITH ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA) REQUIREMENTS, AS SPECIFIED IN THE STANDARDS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS.	16.1.2.3. 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.	
IE SURVEY ARE AVAILABLE FROM THE ENGINEER. SITE CONDITIONS MAY HAVE CHANGED JRVEY WAS PREPARED. CONTRACTORS TO VISIT SITE TO FAMILIARIZE THEMSELVES WITH CONDITIONS.	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	SUBBASE = 93%; AGGREGATE BASE COURSE = 95%; BITUMINOUS COURSES = 95% OF MAXIMUM DENSITY, PER ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) HIGHWAY STANDARDS. 1.3. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE PROPER BARRICADING WARNING	 8. 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 VILLAGE OF ROMEOVILLE IN WRITING PRIOR 	16.1.3. WHEN IT IS IMPOSSIBLE TO MEET (1) OR (2) ABOVE, BOTH THE WATERMAIN AND DRAIN OR SEWER SHALL BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, PRESTRESSED CONCRETE PIPE, OR PVC PIPE EQUIVALENT TO WATERMAIN STANDARDS OF CONSTRUCTION AND IN CONFORMANCE WITH THE ILLINOIS STANDARDS FOR WATER AND SEWER	
DILS INVESTIGATION REPORTS MAY BE OBTAINED FROM THE OWNER. ANY BRACING, SHEETING CONSTRUCTION METHODS DEEMED NECESSARY BY THE CONTRACTOR IN ORDER TO INSTALL ID IMPROVEMENTS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE PROJECT. ANY OILS DATA NEEDED TO CONFIRM THE CONTRACTOR'S OPINIONS OF THE SUBSOIL CONDITIONS	 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 	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 VILLAGE OF ROMEOVILLE CODE.	TO BEGINNING CONSTRUCTION. 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.	CONSTRUCTION IN ILLINOIS. THE DRAIN OR SEWER SHALL BE PRESSURE-TESTED TO THE MAXIMUM EXPECTED SURCHARGE HEAD BEFORE BACKFILLING.	
NE AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL OBTAIN THE OWNER'S HORIZATION TO ACCESS THE SITE TO CONDUCT A SUPPLEMENTAL SOILS INVESTIGATION.	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	2. SUBGRADE PREPARATION 2.1. EARTHWORK FOR PROPOSED PAVEMENT SUBGRADE SHALL BE FINISHED TO WITHIN 0.1 FOOT, PLUS OR	9. 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	16.2. <u>VERTICAL SEPARATION</u> 16.2.1. 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	
TOR SHALL PHOTOGRAPH THE WORK AREA PRIOR TO CONSTRUCTION FOR THE PURPOSE TING EXISTING CONDITIONS.	CONSIDERED INCIDENTAL TO THE CONTRACT. DEPTHS GREATER THAN TWO (2) FEET SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PROCEEDING. 33. THE TRENCHES FOR PIPE INSTALLATION SHALL BE KEPT DRY AT ALL TIMES DURING PIPE PLACEMENT.	MINUS, OF PLAN 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	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.	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 OF WATERMAIN PIPE SHALL BE CENTERED OVER THE SEWER TO BE CROSSED WITH JOINTS EQUIDISTANT FROM THE SEWER OR DRAIN.	
WITH THE FOLLOWING SPECIFICATIONS WHICH ARE HEREBY MADE A PART HEREOF:	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	CONTRACTOR HAS APPROVED AND ACCEPTS THE RESPONSIBILITY FOR THE SUBGRADE. 2.2. PRIOR TO THE PLACEMENT OF THE BASE COURSE, THE SUBGRADE MUST BE PROOF-ROLLED AND INSPECTED FOR UNSUITABLE MATERIALS AND/OR EXCESSIVE MOVEMENT. IF UNSUITABLE SUBGRADE IS	11. 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" EMBOSSED ON THE SURFACE. THE JOINTS BETWEEN THE FRAME AND	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	
D SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" AS PUBLISHED	CONSTRUCTION UNLESS APPROVED IN WRITING BY THE OWNER. 34. 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	ENCOUNTERED, IT SHALL BE CORRECTED. THIS MAY INCLUDE ONE OR MORE OF THE FOLLOWING METHODS: 2.2.1. SCARIFY, DISC, AND AERATE.	CONCRETE SECTION SHALL BE SEALED WITH A BUTYL ROPE. 12.A MAXIMUM OF TWELVE (12) INCHES OF CONCRETE-ADJUSTING RINGS SHALL BE USED TO ADJUST FRAME ELEVATIONS, RINGS SHALL BE SEALED TOGETHER WITH BUTYL ROPE.	A WATERTIGHT CASING PIPE WHEN: 16.2.2.1. IT IS IMPOSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION, AS DESCRIBED ABOVE; OR	
RECOMMENDED STANDARDS FOR SEWAGE WORKS," AS PUBLISHED BY THE ILLINOIS ENTAL PROTECTION AGENCY (IEPA), LATEST EDITION.	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.	2.2.2. REMOVE AND REPLACE WITH STRUCTURAL CLAY FILL.	13. CLEANING: ALL MANHOLES AND PIPES SHALL BE THOROUGHLY CLEANED OF DIRT AND DEBRIS, AND ALL VISIBLE LEAKAGE ELIMINATED, BEFORE FINAL INSPECTION AND ACCEPTANCE.	16.2.2.2. THE WATERMAIN PASSES UNDER A SEWER OR DRAIN. 16.2.3. A VERTICAL SEPARATION OF EIGHTEEN (18) INCHES BETWEEN THE INVERT OF THE SEWER OR	
DNS, STANDARDS AND GENERAL REQUIREMENTS SET FORTH BY THE VILLAGE OF ROMEOVILLE, OTHERWISE NOTED ON THE PLANS. DNAL ELECTRIC CODE.	35. 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.36. EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH IEPA REGULATIONS AND IDOT	2.2.3. REMOVE AND REPLACE WITH GRANULAR MATERIAL. 2.2.4. USE OF GEOTEXTILE FABRIC.	14. 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.	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.	
ICABLE PROVISIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT ARE HEREIN ATED BY REFERENCE.	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.	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.	15. TESTING THE ALIGNMENT/STRAIGHTNESS SHALL BE IN ACCORDANCE WITH THE VILLAGE OF ROMEOVILLE CODE.	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. 17. ALL WATERMAINS SHALL BE PRESSURE-TESTED FOR A MIN. OF 2 HOURS AT 200 PSI. FLUSHED. AND	
PECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, AND RECURRING SPECIAL PROVISIONS, N PLANS, AND SUBSEQUENT DETAILS ARE ALL TO BE CONSIDERED AS PART OF THE ICIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THE CONTRACTOR'S WORK SPECIFICALLY NOTED, BUT ARE CONSIDERED A PART OF THE CONTRACTOR'S CONTRACT.	37. 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	MATERIAL, THE PAVEMENT AREA SHALL BE FINE-GRADED TO WITHIN 0.04 FEET (1/2 INCH) OF FINAL SUBGRADE ELEVATION, TO A POINT TWO (2) FEET BEYOND THE BACK OF THE CURB, SO AS TO ENSURE THE PROPER THICKNESS OF PAVEMENT COURSES. NO CLAIMS FOR EXCESS QUANTITY OF BASE MATERIALS DUE TO IMPROPER SUBGRADE PREPARATION WILL BE HONORED.	16. TELEVISING: IF REQUIRED BY THE MUNICIPALITY, ALL SANITARY SEWERS SHALL BE TELEVISED, AND A COPY OF THE TAPE AND A WRITTEN REPORT SHALL BE SUBMITTED AND REVIEWED BY THE VILLAGE OF ROMEOVILLE BEFORE FINAL ACCEPTANCE. THE REPORT SHALL INCLUDE STUB LOCATION AS WELL AS A DESCRIPTION OF ALL DEFECTS, WATER LEVEL, LEAKS, AND LENGTHS, IDENTIFY MANHOLE TO MANHOLE	DISINFECTED IN ACCORDANCE WITH AWWA AND VILLAGE OF ROMEOVILLE 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 VILLAGE OF ROMEOVILLE. AT NO TIME IS THERE TO BE ANY VISIBLE LEAKAGE FROM THE MAIN.	
THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL ITEMS REQUIRED FOR N OF THE PROJECT, AS SHOWN ON THE PLANS, ARE INCLUDED IN THE CONTRACT. ANY	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	2.4. PRIOR TO PLACEMENT OF THE BASE COURSE, THE SUBGRADE SHALL BE APPROVED BY THE TESTING ENGINEER.	BOTH VERBALLY AND ON-SCREEN USING MANHOLE NUMBERS FROM APPROVED PLANS. ORDER OF WRITTEN REPORT SHALL BE THE SAME AS THE VIDEOTAPES.	VILLAGE OF ROMEOVILLE NOTES	
ECIFICALLY INCLUDED IN THE CONTRACT, BUT SHOWN ON THE PLANS, SHALL BE NCIDENTAL TO THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN THE EVENT OF A DISCREPANCY WITH THE PLANS AND QUANTITIES.	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	3. CONCRETE WORK 3.1. ALL EXTERIOR CONCRETE SHALL BE PORTLAND CEMENT CONCRETE WITH AIR ENTRAINMENT OF NOT	17.TEST RESULTS: IF THE SANITARY SEWER INSTALLATION FAILS TO MEET THE TEST REQUIREMENTS SPECIFIED, THE 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.	WATERMAIN 1. WATERMAIN MUST HAVE A MINIMUM COVER DEPTH OF 5'-6". ALL WATERMAINS MUST BE WRAPPED IN	
TOR IS RESPONSIBLE FOR HAVING A SET OF "APPROVED" ENGINEERING PLANS WITH THE ION DATE ON THE JOB SITE PRIOR TO THE START OF CONSTRUCTION. IF THERE ARE ANY IS WITH WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT SURVEYOR OR ENGINEER BEFORE DOING ANY WORK. OTHERWISE, THE CONTRACTOR	CONTRACTOR, SUBCONTRACTORS OR SUPPLIERS, WHICH CONTRIBUTE TO DEFICIENCIES IN THE SWPPP OR ANY VIOLATIONS RESULTING FROM INADEQUATE EROSION CONTROL PROTECTION AND/OR DOCUMENTATION. 38. THE PAVEMENT SHALL BE KEPT FREE OF MUD AND DEBRIS AT ALL TIMES. IT MAY BE NECESSARY	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 3,500 PSI COMPRESSIVE STRENGTH AT FOURTEEN (14) DAYS AND 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.	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	POLYETHYLENE USING METHOD 'B'. ALL JOINTS MUST BE RESTRAINED WITH MEGALUGS (EBAA IRON) ONLY. 2. VALVE VAULT REQUIREMENTS: 2.1. MANHOLES MUST CONFORM TO THE LATEST REQUIREMENTS OF ASTM C478. 2.2. NEVER TRANSPORT SECTIONS TO THE SITE UNTIL THEY HAVE CURED FOR AT LEAST TEN (10) DAYS.	
L RESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, IS, AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM R PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR	TO KEEP A SWEEPER ON-SITE AT ALL TIMES. 39. ALL DISTURBED AREAS OF THE RIGHT-OF-WAY SHALL BE FULLY RESTORED TO PRE-CONSTRUCTION	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	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 PERFORMANCE AT FIVE (5) PERCENT MAXIMUM DIAMETRIC DEFLECTION OF THE SPIGOT.	 2.3. MARK EACH PIECE PLAINLY WITH MANHOLE NUMBERS AND DATE OF MANUFACTURE SO IT CAN BE INSTALLED IN THE PROPER LOCATION, AS SHOWN ON THE PLANS. 2.4. MAKE SURE FACTORY-INSTALLED CUTOUTS IN THE BOTTOM SECTION ARE APPROPRIATE FOR THE PIPE 	
S. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO DED AT THE CONTRACTOR'S OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR RISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR IS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.	CONDITIONS WITH A MINIMUM OF SIX (6) INCHES OF TOPSOIL, SEEDING, AND MULCH AS PER IDOT STANDARDS. 40. ALL PROPOSED GRADES SHOWN ON PLANS ARE FINISHED SURFACE ELEVATIONS, UNLESS NOTED	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, SHALL BE GREASED AND FITTED WITH METAL EXPANSION TUBES	19.CONTRACTOR SHALL VERIFY THAT THE TESTING METHODS DESIGNATED HEREIN ARE ACCEPTABLE TO THE LOCAL AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT.	BEING LAID. 2.5. PIPE CONNECTIONS AT MANHOLE – CUTOUTS SHOULD BE EQUIPPED WITH RUBBER BOOTS TO ENSURE A WATERTIGHT CONNECTION. MATERIAL SHALL BE EQUAL TO COR-N-SEALL CONNECTOR, AS MANUFACTURED BY NPC, INC.	
TOR SHALL SUBSCRIBE TO ALL GOVERNING REGULATIONS AND SHALL OBTAIN ALL UBLIC AGENCY PERMITS PRIOR TO STARTING WORK. THE CONTRACTOR, BY USING THESE HEIR WORK, AGREE TO HOLD HARMLESS KIMLEY-HORN AND ASSOCIATES, INC, THE	OTHERWISE. 41. ALL TESTING SHALL BE THE RESPONSIBILITY AND EXPENSE OF THE CONTRACTOR. IF REQUESTED BY THE MUNICIPALITY OR ENGINEER, COPIES OF ALL TEST RESULTS SHALL BE PROVIDED TO THE ENGINEER	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 ACCESSIBILITY.	STORM SEWER NOTES 1. STORM SEWER PIPE: ALL STORM SEWER PIPE MATERIAL, SIZE AND TYPE SHALL BE INSTALLED AS	2.6. JOINT SEALANT – FLEXIBLE RUBBER SEALANT FOR JOINTS IN PRE-CAST MANHOLE SECTIONS SHALL PROVIDE PERMANENTLY FLEXIBLE WATERTIGHT JOINTS, SHALL REMAIN WORKABLE OVER A WIDE TEMPERATURE RANGE AND SHALL NOT SHRINK, HARDEN OR OXIDIZE UPON AGING. MATERIAL SHALL BE EQUAL TO TYLOX SUPERSEAL AND SHALL MEET ASTM C 443 AND ASTM C 361 REQUIREMENTS.	loted
THEIR EMPLOYEES AND AGENTS AND THE OWNER FROM AND AGAINST ANY AND ALL NMS, DAMAGES, AND THE COST OF DEFENSE ARISING OUT OF CONTRACTOR(S)	FOR REVIEW AND APPROVAL. 42. 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.	3.4. THE CURBS SHALL BE BACKFILLED AFTER THEIR CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE BASE COURSE.	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 VILLAGE OF ROMEOVILLE PRIOR TO	 2.7. THE FRAME FOR THE LID SHALL BE INSTALLED WHEN CONE SECTION IS CAST. 2.8. HEAT-SHRINABLE ENCAPSULATION FOR EXTERNAL WRAPPING OF ALL JOINTS: WRAPID SEAL AS MANUFACTURED BY CANUSA CPS, BIDCO EXTERNAL JOINT WRAP AS MANUFACTURED BY NPC, OR 	AS N
AND OWNER ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS OR FOR ANY SAFETY USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF	43. 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	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 CONCRETE CURBS, DRIVEWAYS, FOUNDATIONS, AND OTHER STRUCTURES.	ORDERING MATERIALS OR INSTALLING THE PIPE. ALL STORM SEWER PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING: PIPE SIZE CODE PIPE MATERIAL	APPROVED EQUAL. 3. BE CONSCIOUS OF DAMAGING THE PAINT ON THE HYDRANTS DURING INSTALLATION. THE VILLAGE OF ROMEOVILLE HAS FOUND THAT THE PAINT ON THE HYDRANTS CAN BE DAMAGED DURING BACKFILLING. IF REQUESTED BY THE VILLAGE OF ROMEOVILLE WATER SUPERINTENDENT, ANY HYDRANTS EXHIBITING	SCALE
ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS. N MATERIALS AND/OR EQUIPMENT MAY NOT BE STORED IN THE RIGHT-OF-WAY, AS THE OWNER.	IMPROVEMENTS, INCLUDING VERIFICATION OF ALL CONCRETE PADS, INVERT, RIM, AND SPOT GRADE ELEVATIONS, AND INCORPORATE ALL FIELD DESIGN CHANGES APPROVED BY THE OWNER. 44. BEFORE ACCEPTANCE, ALL WORK SHALL BE INSPECTED BY THE VILLAGE OF ROMEOVILLE, AS NECESSARY.	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.	12"-60"RCPREINFORCED CONCRETE PIPE (ASTM C76); SEE IDOT SPECS FOR PIPE CLASS3"-12"PVCPOLYVINYL CHLORIDE PLASTIC PIPE SDR-26 (ASTM D3034 AND D2241)3"-48"HDPEHIGH DENSITY POLYETHYLENE PIPE	 EXCESSIVE ROCK DAMAGE WILL BE SAND BLASTED AND REPAINTED BY AN APPROVED CONTRACTOR PRIOR TO ACCEPTANCE. 4. A MINIMUM OF 48 HOURS PRIOR TO ANY WATER USAGES (I.E. FLUSHES, FILLS, ETC.), THE CONTRACTOR MUST CALL THE VILLAGE OF ROMEOVILLE'S WATER DEPARTMENT AT 815–886–1870 TO GET APPROVAL OF 	
OR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES WITHIN PUBLIC YS ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORDS. THE CONTRACTOR SPONSIBLE FOR DETERMINING THE EXACT LOCATION OF THESE UTILITY LINES AND THEIR		3.7. THE COST OF AGGREGATE BASE OR SUBBASE UNDER CONCRETE WORK SHALL BE INCLUDED IN THE COST OF THE RESPECTIVE CONCRETE ITEM.4. FLEXIBLE PAVEMENT	3"-48" DIP DUCTILE IRON PIPE, CLASS 52 (ANSI 21.51 AND AWWA C151) 2. BAND-SEAL OR SIMILAR COUPLING SHALL BE USED WHEN JOINING SEWER PIPES OF DISSIMILAR	 SAID USAGE. ANY UNAUTHORIZED USAGES WILL RESULT IN PENALTIES. 5. ALL VALVES AND HYDRANTS SHALL BE SUBMITTED TO THE VILLAGE OF ROMEOVILLE WATER DEPARTMENT FOR WRITTEN APPROVAL PRIOR TO ORDERING. 6. VALVE VAULTS: VALVE VAULTS SHALL BE PRECAST CONCRETE STRUCTURES FIVE (5) FEET IN DIAMETER. 	
ROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY ENCOUNTERED WHICH CONFLICT WITH LOCATIONS OF THE NEW CONSTRUCTION, THE SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.	EARTHWORK NOTES	4.1. THE PAVEMENT MATERIALS FOR BITUMINOUS STREETS, PARKING LOTS, AND DRIVE AISLES SHALL BE AS DETAILED ON THE PLANS. UNLESS OTHERWISE SHOWN ON THE PLANS, THE FLEXIBLE PAVEMENTS SHALL CONSIST OF AGGREGATE BASE COURSE. TYPE B. BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE.	MATERIALS. 3. ALL FOOTING DRAIN DISCHARGE PIPES AND DOWN SPOUTS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.	AS NOTED ON THE PLANS. THE FRAME AND COVER SHALL BE EAST JORDAN #1022Z3 EMBOSSED WITH 1020A HD "WATER" AND "VILLAGE OF ROMEOVILLE." ALL JOINTS NEED TO BE EXTERNALLY WRAPPED WITH MACWRAP OR EQUAL. MINIMUM OF TWO (2) ADJUSTING RINGS (MIN 6" ADJUSTING HEIGHT) AND MAXIMUM OF THREE (3) RINGS (MAX 10" ADJUSTING HEIGHT). NO 1" OR 2" CONCRETE RINGS ARE ALLOWED. UNDER	
OBTAIN EASEMENTS AND APPROVAL OF PERMITS NECESSARY TO FACILITATE N OF THE PROPOSED UTILITIES. THE CONTRACTOR, HOWEVER, SHALL FURNISH ALL REQUIRED EVIDENCE OF INSURANCE NECESSARY TO SECURE THESE PERMITS AND EASEMENTS.	1. GENERAL 1.1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE SOIL AND GROUNDWATER CONDITIONS	IL-19, N50; AND BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX N50, OF THE THICKNESS AND MATERIALS SPECIFIED ON THE PLANS. THICKNESSES SPECIFIED SHALL BE CONSIDERED TO BE THE MINIMUM COMPACTED THICKNESS.	4. CONSTRUCTION: ALL STORM SEWERS ARE TO BE CONSTRUCTED USING A LASER INSTRUMENT TO MAINTAIN LINE AND GRADE.	PAVED AREÀŚ, TOP RÌNG SHOULD BE RUBBER. USÉ ONE (1) EJIW INFRA-RISER RUBBER COMPOSITE ADJUSTMENT RISERS (1" TO 3" MAX HEIGHT OF STACKED RISERS).	
TOR SHALL PRESERVE ALL CONSTRUCTION STAKES UNTIL THEY ARE NO LONGER NEEDED. DESTROYED OR DISTURBED BY THE CONTRACTOR PRIOR TO THEIR USE SHALL BE RESET BY R AT THE CONTRACTOR'S EXPENSE.	AT THE SITE. 1.2. ANY QUANTITIES IN THE BID PROPOSAL ARE INTENDED AS A GUIDE FOR THE CONTRACTOR'S USE IN	4.2. ALL TRAFFIC SHALL BE KEPT OFF THE COMPLETED AGGREGATE BASE UNTIL THE BINDER COURSE IS LAID. THE AGGREGATE BASE SHALL BE UNIFORMLY PRIME COATED AT A RATE OF 0.4 TO 0.5 GALLONS PER SQUARE YARD PRIOR TO PLACING THE BINDER COURSE. PRIME COAT MATERIALS SHALL BE IDOT	5. 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	SANITARY SEWER 1. PIPES MUST HAVE A MINIMUM COVER DEPTH OF 5 FEET. PIPES MUST BE PVC SDR 26 WHEN LESS THAN 15 FEET DEEP, PVC SDR 21 WHEN 15-20 FEET DEEP, AND PVC SDR 18 WHEN OVER 20 FEET DEEP. 2. ALL MANHOLES LOCATED IN AREAS SUBJECT TO INUNDATION MUST HAVE WATERPROOF, BOLT-DOWN	
OF COMMENCING CONSTRUCTION: INTRACTOR SHALL NOTIFY AFFECTED GOVERNMENTAL AGENCIES IN WRITING AT LEAST THREE	DETERMINING THE SCOPE OF THE COMPLETED PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALL MATERIAL QUANTITIES AND BE KNOWLEDGEABLE OF ALL SITE CONDITIONS. 1.3. THE CONTRACTOR WILL NOTE THAT THE ELEVATIONS SHOWN ON THE CONSTRUCTION PLANS ARE	APPROVED. 4.3. PRIOR TO PLACEMENT OF THE SURFACE COURSE, THE BINDER COURSE SHALL BE CLEANED AND TACK-COATED IF DUSTY OR DIRTY. ALL DAMAGED AREAS IN THE BINDER, BASE, OR CURB SHALL BE	 GRADED OR PAVED. 6. 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) 	 FRAMES AND LIDS. PLEASE USE AN INTERNAL/EXTERNAL ADAPTOR SEAL ON SANITARY MANHOLES. ONE VENDOR OF THIS SEAL IS ADAPTOR INC. SANITARY MANHOLE FRAME AND COVER SHALL BE EAST JORDAN 1022Z3 EMBOSSED WITH "SANITARY" 	
KING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION. IN ADDITION, THE CONTRACTOR DIFY, AS NECESSARY, ALL TESTING AGENCIES, THE VILLAGE OF ROMEOVILLE, AND THE JFFICIENTLY IN ADVANCE OF CONSTRUCTION.	FINISHED GRADE AND THAT PAVEMENT THICKNESS, TOPSOIL, ETC., MUST BE ACCOUNTED FOR. 1.4. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE DURING CONSTRUCTION AND PREVENT STORMWATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS. THE FAILURE TO PROVIDE	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 AT A RATE	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.	AND "VILLAGE OF ROMEOVILLE". ALL JOINTS NEED TO BE EXTERNALLY WRAPPED WITH MACWRAP OR EQUAL. RUBBER GASKETED BOOTS ARE REQUIRED FOR THE MAIN AT THE MANHOLE WALL. 5. ALL SANITARY MANHOLE CASTINGS, ADJUSTING RINGS, AND MANHOLE SECTIONS SHALL BE SET IN BUTYL ROPE OR APPROVED FOUAL, FACH MANHOLE CONF AND BARREL SECTION JOINT SHALL ALSO BE	
E OF THE CONTRACTOR TO ALLOW PROPER NOTIFICATION TIME WHICH RESULTS IN THE COMPANIES TO BE UNABLE TO VISIT THE SITE AND PERFORM TESTING WILL CAUSE THE FOR TO SUSPEND THE OPERATION TO BE TESTED UNTIL THE TESTING AGENCY CAN TESTING OPERATIONS. COST OF SUSPENSION OF WORK SHALL BE BORNE BY THE	PROPER DRAINAGE WILL NEGATE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF. FINAL GRADES SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION, SEDIMENTATION, AND TRAFFIC.	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.	 A CONCRETE BENCH TO DIRECT FLOWS SHALL BE CONSTRUCTED IN THE BOTTOM OF ALL INLETS AND MANHOLES. THE FRAME, GATE, AND/OR CLOSED LID SHALL BE CAST IRON OF THE STYLE SHOWN ON THE PLANS. 	EXTERNALLY SEALED WITH A 6" WIDE SEALING BAND OF RUBBER AND MASTIC. THE BAND SHALL HAVE AN OUTER LAYER OF RUBBER OR POLYETHYLENE WITH AN UNDER LAYER OF RUBBERIZED MASTIC MEETING THE REQUIREMENTS OF ASTM C-877-02 (STANDARD SPECIFICATION FOR EXTERNAL SEALING BANDS FOR	
TOR.	1.5. 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.	 TESTING AND FINAL ACCEPTANCE. THE CONTRACTOR SHALL FOLLOW THE QUALITY CONTROL TESTING PROGRAM FOR CONCRETE AND DAMAGENER MATERIALS FOR DURING BY THE FLICING PROGRAM FOR CONCRETE AND 	9. CLEANING: THE STORM SEWER SYSTEM SHALL BE THOROUGHLY CLEANED PRIOR TO FINAL INSPECTION AND TESTING.	CONCRETE PIPE, MANHOLES, AND PRECAST BOX SECTIONS). PIPE CONNECTIONS TO NEW AND EXISTING MANHOLES THROUGH OPENINGS (CAST OR CORE-DRILLED) SHALL BE PROVIDED WITH A FLEXIBLE RUBBER WATERTIGHT CONNECTOR CONFORMING TO ASTM C-923 (STANDARD SPECIFICATIONS FOR RESILIENT CONNECTIONS BETWEEN REINFORCED CONCRETE MANHOLE STRUCTURES AND PIPES).	
THE MUNICIPALITY. SIGNS, LIGHT STANDARDS, AND UTILITY POLES THAT INTERFERE WITH CONSTRUCTION AND ARE NOT NOTED ON THE PLANS FOR DISPOSAL SHALL BE REMOVED AND RESET BY	 1.6. 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 DIAMETER OF WHICH SHALL BE SUCH THAT THE ENTIRE DRIP ZONE 	PAVEMENT MATERIALS ESTABLISHED BY THE ENGINEER. 5.2. PRIOR TO PLACEMENT OF THE BITUMINOUS CONCRETE SURFACE COURSE, THE CONTRACTOR, WHEN REQUIRED BY THE VILLAGE OF ROMEOVILLE, SHALL OBTAIN SPECIMENS OF THE BINDER COURSE WITH A	 10. THE STORM SEWER SHALL BE TELEVISED IF REQUIRED BY THE VILLAGE OF ROMEOVILLE. 11. 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 	 PER VILLAGE OF ROMEOVILLE STANDARDS, ALL MANHOLES LOCATED IN AREAS SUBJECT TO INUNDATION MUST HAVE WATERPROOF, BOLT-DOWN FRAMES AND LIDS. RUBBER GASKETED BOOTS ARE REQUIRED FOR ALL PENETRATIONS THROUGH THE MANHOLE WALL. INTERNAL/EXTERNAL CHIMNEY SEALS ARE REQUIRED. 	
TOR AT THE CONTRACTOR'S OWN EXPENSE, AS DIRECTED BY THE ENGINEER. ANY DAMAGE MS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN THE SATISFACTION OF THE OWNER. ANY SIGNS NOT REQUIRED TO BE RESET SHALL BE THE RESPECTIVE OWNERS.	(EXTENT OF FURTHEST EXTENDING BRANCHES) SHALL BE WITHIN THE FENCE LIMITS. THE EXISTING GRADE WITHIN THE FENCED AREA SHALL NOT BE DISTURBED.	CORE DRILL WHERE DIRECTED, FOR THE PURPOSE OF THICKNESS VERIFICATION. 5.3. WHEN REQUIRED BY THE VILLAGE OF ROMEOVILLE, THE CONTRACTOR SHALL OBTAIN SPECIMENS OF THE FULL DEPTH BITUMINOUS CONCRETE PAVEMENT STRUCTURE WITH A CORE DRILL WHERE DIRECTED IN	VILLAGE OF RÓMEOVILLE. 12. ALL PVC PIPES CONNECTED TO REINFORCED CONCRETE PIPE SHALL BE CORED AND BOOTED PER THE	8. INTERNAL CHIMNEY SEALS SHALL BE ENVIROLASTIC AR350 OR RAVEN 581 BRUSH GRADE, A 100% SOLIDS, FLUID APPLIED POLYURIA ELASTOMER REPAIR MATERIAL AS APPLIED PER THE FOLLOWING: FOR SURFACE PREPARATION, SURFACES SHOULD BE THOROUGHLY CLEAN AND DRY. CONCRETE AND MORTAR MUST BE CURED AT LEAST 7 DAYS AND NO FROST OR WET CONDITIONS CAN BE PRESENT DURING INSTALLATION.	
D BE SAVED SHALL BE IDENTIFIED PRIOR TO CONSTRUCTION BY THE LANDSCAPE ARCHITECT E PROTECTED PER IDOT SECTION 201.05. THE RIGHT-OF-WAY LINE AND LIMITS OF THE S OPERATIONS SHALL BE CLEARLY DEFINED THROUGHOUT THE CONSTRUCTION PERIOD. ALL	 TOPSOIL EXCAVATION INCLUDES: 2.1. EXCAVATION OF TOPSOIL AND OTHER STRUCTURALLY UNSUITABLE MATERIALS WITHIN THOSE AREAS THAT WILL REQUIRE EARTH EXCAVATION OR COMPACTED EARTH FILL MATERIAL. EXISTING VEGETATION 	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	VILLAGE OF ROMEOVILLE REQUIREMENTS. WATERMAIN NOTES	REMOVE ALL LOOSE MORTAR AND FOREIGN MATERIAL. SURFACE MUST BE FREE OF LAITANCE, CONCRETE DUST, DIRT, FORM RELEASE AGENTS, MOISTURE CURING MEMBRANES, LOOSE CEMENT AND HARDENERS. FILL BUG HOLES, AIR POCKETS, AND OTHER VOIDS WITH STEEL-SEAM FT910. AFTER ENSURING THAT ALL SURFACES ARE CLEAN THE CHIMNEY SEAL COATING MATERIAL SHALL BE APPLIED EVENLY BY SPRAYING	
TO REMAIN SHALL BE PROTECTED FROM DAMAGE TO TRUNKS, BRANCHES AND ROOTS. NO FILLING OR GRADING IS TO BE DONE INSIDE THE DRIP LINE OF TREES UNLESS OTHERWISE	SHALL BE REMOVED PRIOR TO STRIPPING TOPSOIL OR FILLING AREAS. 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	CHECKING REQUIREMENTS CITED ABOVE. 6. ALL MATERIAL AND CONSTRUCTION SHALL CONFORM TO THE VILLAGE OF ROMEOVILLE CODE. WHEN CONFLICTS ARISE BETWEEN MUNICIPAL CODE, GENERAL NOTES AND SPECIFICATIONS, THE MORE	1. 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	OVER THE ENTIRE CHIMNEY SEAL INCLUDING THE FRAME JOINT AREA AND THE VERTICAL RISER OF THE MANHOLE CONE INCLUDING ALL EXTENSIONS TO THE CHIMNEY AREA. APPLICATION SHALL BE MADE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND FILM SHALL BE APPLIED AT A WET MILS	
SHALL BE PERFORMED UNDER THE SUPERVISION OF AN APPROVED LANDSCAPE ARCHITECT, R ARBORIST AND SHALL BE UNDERTAKEN IN A TIMELY FASHION SO AS NOT TO INTERFERE UCTION. ALL LIMBS, BRANCHES, AND OTHER DEBRIS RESULTING FROM THE CONTRACTOR'S BE DISPOSED OF OFF-SITE BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE.	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	STRINGENT SHALL TAKE PRECEDENCE.	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 VILLAGE OF ROMEOVILLE PRIOR TO ORDERING MATERIALS OR INSTALLING THE PIPE. ALL WATERMAIN	 SPREADING RATE OF BETWEEN 100 AND 125 MILS. THE FINAL INTERNAL CHIMNEY SEAL SHALL PASS VISUAL INSPECTION AND BE COMPLETELY FREE OT PINHOLES OR VOIDS. MINIMUM OF TWO (2) ADJUSTING RINGS (MIN. 6" ADJUSTING HEIGHT) AND MAXIMUM OF THREE (3) RINGS (MAX 10" ADJUSTING HEIGHT). NO 1" OR 2" CONCRETE RINGS ARE ALLOWED. UNDER PAVED AREAS, TOP 	
ER ONE (1) INCH IN DIAMETER SHALL BE PAINTED WITH AN APPROVED TREE PAINT. PAVEMENT OR CONCRETE TO BE REMOVED SHALL BE SAWCUT ALONG LIMITS OF PROPOSED	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	1. 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)	PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING: PIPE SIZE CODE PIPE MATERIAL 3"-48" DIP DUCTILE IRON PIPE, CLASS 52 (ANSI 21.51 AND AWWA C151)	RING SHOULD BE RUBBER. USE ONE (1) EJIW INFRA-RISER RUBBER COMPOSITE ADJUSTMENT RISER. 10. POURED CONCRETE TROUGHS REQUIRED IN EACH SANITARY MANHOLE FOR EACH INFLUENT LINE. <u>STORM SEWER</u>	
ORE COMMENCEMENT OF PAVEMENT REMOVAL. UTILITIES OR IMPROVEMENTS, INCLUDING WALKS, CURBS, PAVEMENT, AND PARKWAYS REMOVED DURING CONSTRUCTION SHALL BE PROMPTLY RESTORED TO THEIR RESPECTIVE	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.	STANDARDS. 2. 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.	 < 3" TYPE "K" COPPER PIPE 2. FITTINGS: ALL FITTINGS SHALL BE OF DUCTILE IRON WITH CEMENT MORTAR LINING AND MECHANICAL JOINTS CONFORMING TO ANSI AS21.10 (AWWA C110). 	 STORM SEWER JOINTS MUST BE FLEXIBLE GASKET O-RINGS PER ASTM C361, ASTM C433, AND ASTM C1619 VILLAGE OF ROMEOVILLE REQUIRES SUBMISSION OF RECORDED VIDEO INSPECTIONS OF ALL PUBLIC STORM SEWER. 	
IDITION. THE CONTRACTOR'S WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT Y ITEM IS LISTED ON THE BID LIST. SPECIFIED ITEMS. INCLUDING BUT NOT LIMITED TO. PAVEMENT. SIDEWALK, CURB. CURB AND	 EARTH EXCAVATION INCLUDES: 3.1. 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 	3. 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. 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. THE VALVES SHALL	 FOR CLOSED LID STRUCTURES, FRAME AND COVER SHALL BE EAST JORDAN 1022Z3 EMBOSSED WITH "STORM" AND "VILLAGE OF ROMEOVILLE". INTERNAL/EXTERNAL CHIMNEY SEALS ARE REQUIRED. INTERNAL CHIMNEY SEALS SHALL BE ENVIROLASTIC AR350 OR RAVEN 481 BRUSH GRADE, A 100% SOLIDS, FLUID APPLIED POLYURIA ELASTOMER REPAIR 	
ÆRTS, ETC., SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR AT THE S OWN EXPENSE. THE CONTRACTOR IS RESPONSIBLE FOR ANY PERMITS REQUIRED FOR SUCH	WHILE MAINTAINING PROPER DRAINAGE. THE TOLERANCE WITHIN PAVEMENT AREAS SHALL BE SUCH THAT THE EARTH MATERIALS SHALL "BALANCE" DURING THE FINE GRADING OPERATION. 3.2. PLACEMENT OF SUITABLE MATERIALS SHALL BE WITHIN THOSE AREAS REQUIRING STRUCTURAL FILL IN	 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. 	 HAVE MECHANICAL JOINTS. 4. THE MECHANICAL JOINTS AND ALL FASTENERS ON THE VALVE BODY SHALL HAVE STAINLESS STEEL NUTS AND BOLTS. 	MATERIAL AS APPLIED PER THE FOLLOWING: FOR SURFACE PREPARATION, SURFACES SHOULD BE THOROUGHLY CLEAN AND DRY. CONCRETE AND MORTAR MUST BE CURED AT LEAST 7 DAYS AND NO FROST OR WET CONDITIONS CAN BE PRESENT DURING INSTALLATION. REMOVE ALL LOOSE MORTAR AND	
TOR SHALL COLLECT AND REMOVE ALL CONSTRUCTION DEBRIS, EXCESS MATERIALS, TRASH, ASE RESIDUE, MACHINERY, TOOLS, AND OTHER MISCELLANEOUS ITEMS WHICH WERE NOT DR TO PROJECT COMMENCEMENT AT NO ADDITIONAL EXPENSE TO THE OWNER. THE	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.	 6. PAVEMENT MARKINGS ON BIKE PATHS, PARKING LOT STALLS, AND SIMILAR "LOW-WEAR" APPLICATIONS, SHALL BE PAINT IN ACCORDANCE WITH IDOT STANDARDS. 	5. VALVE VAULTS: VALVE VAULTS SHALL BE PRECAST CONCRETE STRUCTURES FIVE (5) FEET IN DIAMETER, AS NOTED ON THE PLANS. THE FRAME AND LID SHALL BE ACCORDING TO THE DETAIL ON THE PLANS,	FOREIGN MATERIAL. SURFACE MUST BE FREE OF LAITANCE, CONCRETE DUST, DIRT, FORM RELEASE AGENTS, MOISTURE CURING MEMBRANES, LOOSE CEMENT AND HARDENERS. FILL BUG HOLES, AIR POCKETS, AND OTHER VOIDS WITH STEEL-SEAM FT910. AFTER ENSURING THAT ALL SURFACES ARE CLEAN THE CHIMNEY SEAL COATING MATERIAL SHALL BE APPLIED EVENLY BY SPRAYING OVER THE ENTIRE CHIMNEY	
SHALL BE RESPONSIBLE FOR ACQUIRING ANY AND ALL PERMITS NECESSARY FOR THE DISPOSAL REQUIRED FOR CLEANUP, AS DIRECTED BY THE ENGINEER OR OWNER. BURNING IS NOT PERMITTED.	3.3. 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	7. 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.	 WITH "WATER" EMBOSSED ON THE LID. 6. 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 	SEAL INCLUDING THE FRAME JOINT AREA AND THE VERTICAL RISER OF THE MANHOLE CONE INCLUDING ALL EXTENSIONS TO THE CHIMNEY AREA. APPLICATION SHALL BE MADE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND FILM SHALL BE APPLIED AT A WET MILS SPREADING RATE OF BETWEEN 100 AND 125 MILS. THE FINAL INTERNAL CHIMNEY SEAL SHALL PASS VISUAL INSPECTION AND	
DUND WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE COVERED UNTIL IT HAS BEEN (THE VILLAGE OF ROMEOVILLE. APPROVAL TO PROCEED MUST BE OBTAINED FROM THE COMEOVILLE PRIOR TO INSTALLING PAVEMENT BASE, BINDER, AND SURFACE, AND PRIOR TO CONCRETE AFTER FORMS HAVE BEEN SET, AS NECESSARY.	OTHER UNSUITABLE MATERIALS UNLESS SPECIFICALLY DIRECTED BY A SOILS ENGINEER WITH THE CONCURRENCE OF THE OWNER.	8. 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.	WITH A HYDRANT BARREL TO VALVE BOX RESTRAINING DEVICE. THE PUMPER CONNECTION SHALL FACE THE ROADWAY. 7. PROVIDE AND INSTALL FOUR MEGALUG JOINT RESTRAINTS AT EACH JOINT FROM THE MAINLINE TEE TO	BE COMPLETELY FREE OT PINHOLES OR VOIDS. MINIMUM OF TWO (2) ADJUSTING RINGS (MIN 6" ADJUSTING HEIGHT) AND MAXIMUM OF THREE (3) RINGS (MAX 10" ADJUSTING HEIGHT). NO 1" OR 2" CONCRETE RINGS ARE ALLOWED. UNDER PAVED AREAS, TOP RING SHOULD BE RUBBER. USE ONE (1) EJIW INFRA-RISER RUBBER COMPOSITE	
N ON THE PLANS OR DIRECTED BY THE ENGINEER, EXISTING DRAINAGE STRUCTURES AND BE CLEANED OF DEBRIS AND PATCHED AS NECESSARY TO ASSURE INTEGRITY OF THE THE CONTRACTOR'S WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE MERGED	3.4. 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.	SANITARY SEWER NOTES	THE AUXILIARY VALVE AND BETWEEN THE AUXILIARY VALVE AND THE HYDRANT BARREL. 8. THE BREAK FLANGE AND ALL BELOW-GRADE FITTING SHALL HAVE STAINLESS STEEL NUTS AND BOLTS.	 ALL CLOSED LID STRUCTURES, FRAME AND COVER SHALL BE EAST JORDAN 1022Z3 EMBOSSED WITH "STORM" AND "VILLAGE OF ROMEOVILLE." PER VILLAGE OF ROMEOVILLE STANDARDS, ALL MANHOLES LOCATED IN AREAS SUBJECT TO INUNDATION MUST HAVE WATERPROOF, BOLT-DOWN FRAMES AND LIDS. 	
NTRACT UNIT PRICE EACH FOR STRUCTURES AND CONTRACT UNIT PRICE PER LINEAL FOOT SEWERS, WHICH SHALL BE PAYMENT IN FULL FOR CLEANING, PATCHING, REMOVAL, AND DEBRIS AND DIRT. DRAINAGE STRUCTURES AND STORM SEWERS CONSTRUCTED AS PART OF CTOR'S PROJECT SHALL BE MAINTAINED BY THE CONTRACTOR AT THE CONTRACTOR'S	4. 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. 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	9. 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.	7. SEE STORMWATER MANAGEMENT PLAN FOR LAKEWOOD HOMES, INC. DATED FEBRUARY 2002. EROSION AND SEDIMENT CONTROL	
EXTRA PAYMENT WILL BE MADE FOR CLEANING STRUCTURES OR STORM SEWERS AS PART OF THE CONTRACTOR'S PROJECT.	5. MISCELLANEOUS. THE CONTRACTOR SHALL: 5.1. SPREAD AND COMPACT UNIFORMLY TO THE DEGREE SPECIFIED ALL EXCESS TRENCH SPOIL AFTER	PIPE MATERIAL, SIZE AND TYPE MUST BE APPROVED BY THE OWNER, ENGINEER AND VILLAGE OF ROMEOVILLE PRIOR TO ORDERING MATERIALS OR INSTALLING THE PIPE. ALL SANITARY SEWER PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING:	10. SERVICE BOX: PROVIDE CURB VALVE AND CURB BOX, AS INDICATED ON THE PLANS. BOX SHALL BE EXTENSION TYPE WITH FOOT PIECE AND STATIONARY RODS FOR SIX (6) FEET OF BURY.	 ALL ACCESS TO AND FROM THE CONSTRUCTION SITE IS TO BE RESTRICTED TO THE CONSTRUCTION ENTRANCE. ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE EFFECTIVE PERFORMANCE OF THEIR INTENDED FUNCTION. 	C C
TOR SHALL BE RESPONSIBLE FOR HAVING THE UTILITY COMPANIES LOCATE THEIR FACILITIES PRIOR TO CONSTRUCTION AND SHALL ALSO BE RESPONSIBLE FOR THE MAINTENANCE AND N OF THESE FACILITIES. THE ENGINEER DOES NOT WARRANT THE LOCATION OF ANY EXISTING WIN ON THE PLANS. THE CONTRACTOR SHALL CALL J.U.L.I.E. (1-800-892-0123) AND THE	COMPLETION OF THE UNDERGROUND IMPROVEMENTS. 5.2. SCARIFY, DISC, AERATE, AND COMPACT, TO THE DEGREE SPECIFIED, THE UPPER TWELVE (12) INCHES	PIPE SIZE CODE PIPE MATERIAL 4" – 12" PVC POLYVINYL CHLORIDE PLASTIC PIPE SDR–26 (ASTM D3034 AND D2241) 4"–48" DIP DUCTILE IRON PIPE, CLASS 52 (ANSI 21.51 AND AWWA C151)	 MAXIMUM DEFLECTION AT PIPE JOINTS SHALL BE IN ACCORDANCE WITH PIPE MANUFACTURER'S CURRENT RECOMMENDATIONS AND AWWA SPECIFICATIONS. BEDDING: ALL WATERMAINS SHALL BE BEDDED ON FIRM GROUND, WITH BELLHOLES EXCAVATED SO THAT 	 MAJOR AMENDMENTS OF THE SITE DEVELOPMENT OR EROSION AND SEDIMENT CONTROL PLANS SHALL BE SUBMITTED TO THE DEPARTMENT OF COMMUNITY DEVELOPMENT TO BE APPROVED IN THE SAME MANNER AS THE ORIGINAL PLANS. ANY SEDIMENT REACHING A PUBLIC OR PRIVATE ROAD SHALL BE REMOVED BY SHOVELING OR STREET 	
OMEOVILLE FOR UTILITY LOCATIONS. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO PROVIDE CABLE TV, PHONE, S AND IRRIGATION SERVICES. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR	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. 5.3. PROVIDE WATER TO ADD TO DRY MATERIAL IN ORDER TO ADJUST THE MOISTURE CONTENT FOR THE	 2. 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 1/4" TO 1" IN SIZE WITH MINIMUM 	THE PIPE HAS AN 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.	 ANT SEDIMENT REACHING A FOBLIC OR FRIVATE ROAD SIDELE BE REMOVED BY SHOULING OR STREET CLEANING (NOT FLUSHING) BEFORE THE END OF EACH WORKDAY AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE DISPOSED OR WITHIN 30 DAYS AFTER THE FINAL SITE STABILIZATION IS ACHIEVED WITH PERMANENT SOIL STABILIZATION MEASURES. 	
E LAYOUTS FOR THESE UTILITIES AND SHALL COORDINATE AND PROVIDE CONDUIT S REQUIRED. THIS COORDINATION SHALL BE CONSIDERED INCIDENTAL TO GENERAL AGREEMENT WITH THE OWNER. ANY CONFLICTS IN UTILITIES SHALL BE CORRECTED BY THE ITRACTOR AT NO ADDITIONAL COST TO THE OWNER.	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.	BEDDING THICKNESS EQUAL TO 1/4 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 ARTICLE 704.01 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" OF THE STATE OF ILLINOIS OR ASTM C-33. THE GRADATION SHALL CONFORM TO	 14. 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 	 DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN 7 CALENDAR DAYS FOLLOWING THE END OF ACTIVE DISTURBANCE OR REDISTURBANCE. IF DEWATERING DEVICES ARE USED, DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. ALL 	
IS TO VERIFY ALL EXISTING STRUCTURES AND FACILITIES AT ALL PROPOSED UTILITY LOCATIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL	6. TESTING AND FINAL ACCEPTANCE 6.1. THE CONTRACTOR SHALL PROVIDE AS A MINIMUM A FULLY LOADED SIX-WHEEL TANDEM AXLE TRUCK	GRADATION CA-11 OR CA-13 OF THE ILLINOIS STANDARD SPECIFICATIONS AND SHALL BE EXTENDED AT LEAST 12" ABOVE THE TOP OF THE PIPE WHEN USING PVC.	 ON THE PLANS 15. "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 THIS WORK SHALL BE INCIDENTAL TO THE UNIT PRICE FOR THE PIPE 	 PUMPED DISCHARGES SHALL BE ROUTED THROUGH APPROPRIATELY DESIGNED SEDIMENT TRAPS OR BASINS. 8. EROSION CONTROL BLANKET, TEMPORARY SEEDING, & PERMANENT SEEDING TO BE PROVIDED AS SPECIFIED ON THE EROSION CONTROL PLAN TO CONTROL DUST. 	Of
G WORK. LES ENCOUNTERED SHALL BE INSPECTED BY THE ENGINEER. THE DRAIN TILE SHALL BE O THE STORM SEWER SYSTEM AND A RECORD KEPT BY THE CONTRACTOR OF THE	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 ENGINEER AND THE OWNER. (SEE PAVING SPECIFICATION.)	 ALL UNSUITABLE MATERIALS SHALL BE REMOVED BELOW THE PROPOSED SANITARY SEWER AND REPLACED WITH COMPACTED CRUSHED GRAVEL OR STONE, AS PER IDOT STANDARDS. ALL TRENCHES BENEATH PROPOSED OR EXISTING UTILITIES, PAVEMENTS, ROADWAYS, SIDEWALKS, AND FOR ADDITIONAL OF THE ADDITION OF THE PROPOSED OR EXISTING UTILITIES, PAVEMENTS, ROADWAYS, SIDEWALKS, AND FOR 	INSTALLED. 16. ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA) AND VILLAGE OF ROMEOVILLE WATERMAIN		KH.
ND TURNED OVER TO THE ENGINEER UPON COMPLETION OF THE PROJECT. THE COST OF CTOR'S WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT, AND NO ADDITIONAL N SHALL BE ALLOWED.	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.	A DISTANCE OF TWO (2) FEET ON EITHER SIDE OF SAME, AND/OR WHERE SHOWN ON THE PLANS, SHALL BE BACKFILLED WITH SELECT GRANULAR BACKFILL PER IDOT STANDARDS AND THOROUGHLY MECHANICALLY COMPACTED IN 9-INCH THICK (LOOSE MEASUREMENT) LAYERS. JETTING WITH WATER IS NOT PERMITTED.	PROTECTION: 16.1. <u>HORIZONTAL SEPARATION</u>		S
AND LIDS FOR STORM AND SANITARY SEWERS, VALVE VAULT COVERS, FIRE HYDRANTS, AND			16.1.1. WATERMAINS SHALL BE LAID AT LEAST TEN (10) FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED DRAIN, STORM SEWER, SANITARY SEWER, OR SEWER SERVICES CONNECTION.		

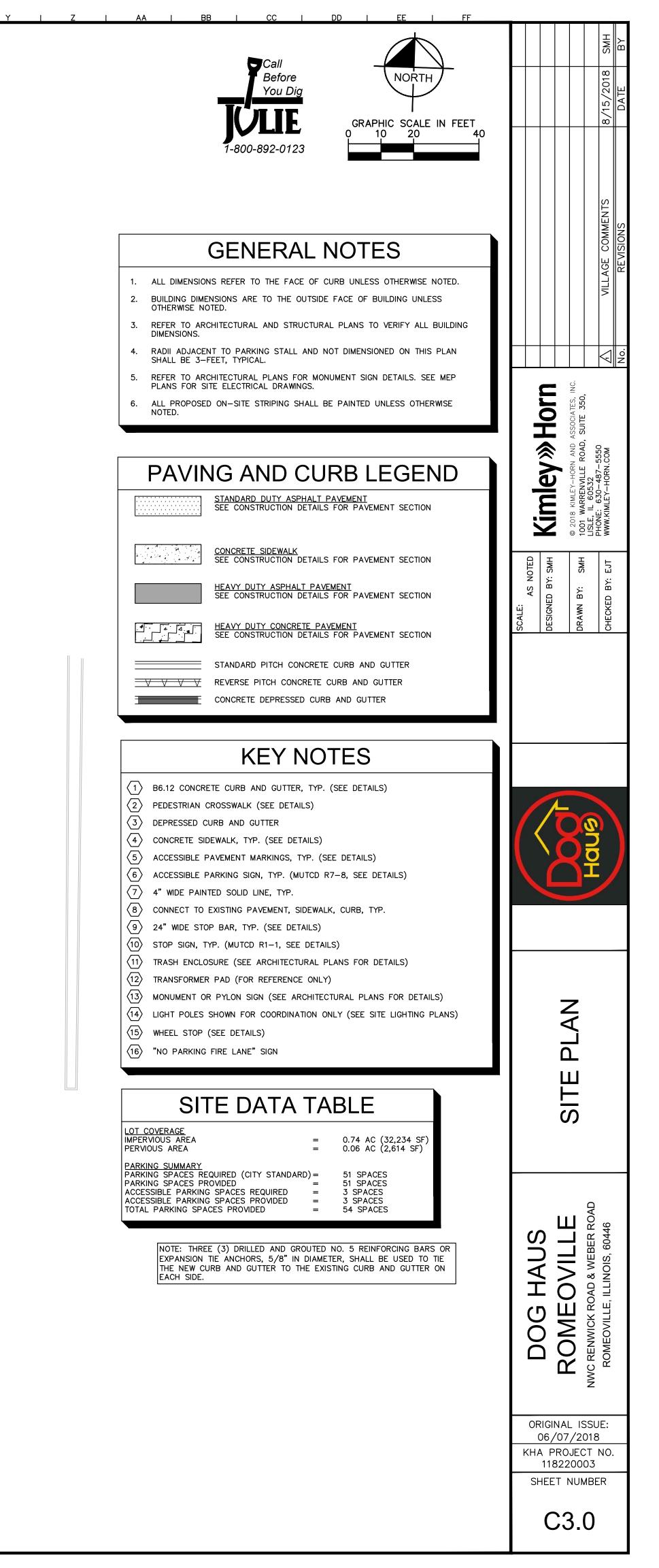


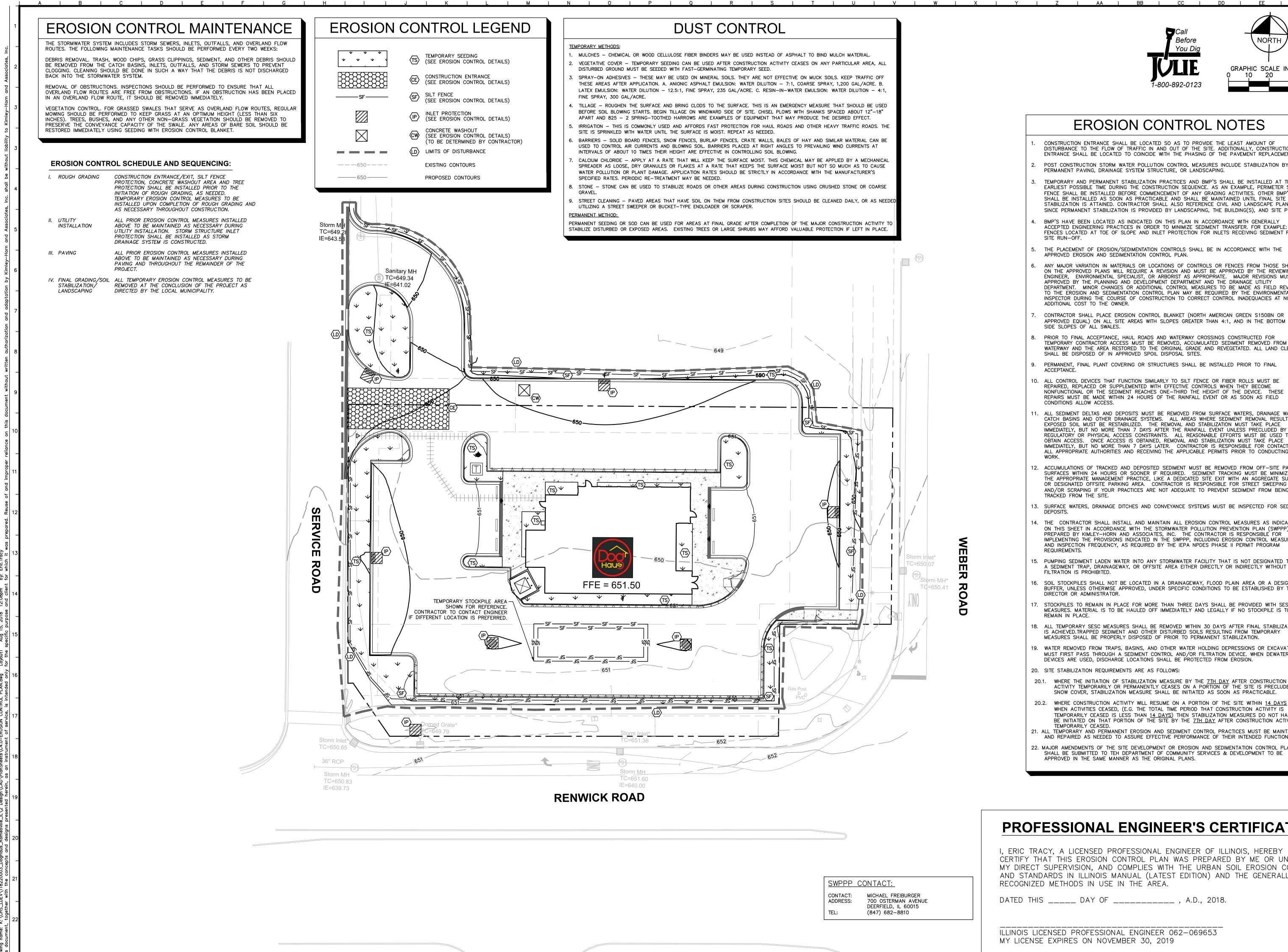


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	EROSION CONTROL NOTES	
	TRUCTION ENTRANCE SHALL BE LOCATED SO AS TO PROVIDE THE LEAST AMOUNT OF RBANCE TO THE FLOW OF TRAFFIC IN AND OUT OF THE SITE. ADDITIONALLY, CONSTRUCTION ANCE SHALL BE LOCATED TO COINCIDE WITH THE PHASING OF THE PAVEMENT REPLACEMENT.	ļ
	CONSTRUCTION STORM WATER POLLUTION CONTROL MEASURES INCLUDE STABILIZATION BY ANENT PAVING, DRAINAGE SYSTEM STRUCTURE, OR LANDSCAPING.	
	DRARY AND PERMANENT STABILIZATION PRACTICES AND BMP'S SHALL BE INSTALLED AT THE EST POSSIBLE TIME DURING THE CONSTRUCTION SEQUENCE. AS AN EXAMPLE, PERIMETER SILT E SHALL BE INSTALLED BEFORE COMMENCEMENT OF ANY GRADING ACTIVITIES. OTHER BMP'S BE INSTALLED AS SOON AS PRACTICABLE AND SHALL BE MAINTAINED UNTIL FINAL SITE LIZATION IS ATTAINED. CONTRACTOR SHALL ALSO REFERENCE CIVIL AND LANDSCAPE PLANS PERMANENT STABILIZATION IS PROVIDED BY LANDSCAPING, THE BUILDING(S), AND SITE PAVING.	
	HAVE BEEN LOCATED AS INDICATED ON THIS PLAN IN ACCORDANCE WITH GENERALLY PTED ENGINEERING PRACTICES IN ORDER TO MINIMIZE SEDIMENT TRANSFER. FOR EXAMPLE: SILT ES LOCATED AT TOE OF SLOPE AND INLET PROTECTION FOR INLETS RECEIVING SEDIMENT FROM RUN-OFF.	i
	PLACEMENT OF EROSION/SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE OVED EROSION AND SEDIMENTATION CONTROL PLAN.	•
-	MAJOR VARIATION IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THOSE SHOWN HE APPROVED PLANS WILL REQUIRE A REVISION AND MUST BE APPROVED BY THE REVIEWING EER, ENVIRONMENTAL SPECIALIST, OR ARBORIST AS APPROPRIATE. MAJOR REVISIONS MUST BE DVED BY THE PLANNING AND DEVELOPMENT DEPARTMENT AND THE DRAINAGE UTILITY RTMENT. MINOR CHANGES OR ADDITIONAL CONTROL MEASURES TO BE MADE AS FIELD REVISIONS HE EROSION AND SEDIMENTATION CONTROL PLAN MAY BE REQUIRED BY THE ENVIRONMENTAL CTOR DURING THE COURSE OF CONSTRUCTION TO CORRECT CONTROL INADEQUACIES AT NO IONAL COST TO THE OWNER.	
	RACTOR SHALL PLACE EROSION CONTROL BLANKET (NORTH AMERICAN GREEN S150BN OR OVED EQUAL) ON ALL SITE AREAS WITH SLOPES GREATER THAN 4:1, AND IN THE BOTTOM AND SLOPES OF ALL SWALES.	
NOTED	TO FINAL ACCEPTANCE, HAUL ROADS AND WATERWAY CROSSINGS CONSTRUCTED FOR DRARY CONTRACTOR ACCESS MUST BE REMOVED, ACCUMULATED SEDIMENT REMOVED FROM THE RWAY AND THE AREA RESTORED TO THE ORIGINAL GRADE AND REVEGETATED. ALL LAND CLEARING BE DISPOSED OF IN APPROVED SPOIL DISPOSAL SITES.	
LE: AS	ANENT, FINAL PLANT COVERING OR STRUCTURES SHALL BE INSTALLED PRIOR TO FINAL PTANCE.	
SCALE:	CONTROL DEVICES THAT FUNCTION SIMILARLY TO SILT FENCE OR FIBER ROLLS MUST BE RED, REPLACED OR SUPPLEMENTED WITH EFFECTIVE CONTROLS WHEN THEY BECOME JNCTIONAL OR THE SEDIMENT REACHES ONE—THIRD THE HEIGHT OF THE DEVICE. THESE RS MUST BE MADE WITHIN 24 HOURS OF THE RAINFALL EVENT OR AS SOON AS FIELD ITIONS ALLOW ACCESS.	
	SEDIMENT DELTAS AND DEPOSITS MUST BE REMOVED FROM SURFACE WATERS, DRAINAGE WAYS, H BASINS AND OTHER DRAINAGE SYSTEMS. ALL AREAS WHERE SEDIMENT REMOVAL RESULTED IN SED SOIL MUST BE RESTABILIZED. THE REMOVAL AND STABILIZATION MUST TAKE PLACE DIATELY, BUT NO MORE THAN 7 DAYS AFTER THE RAINFALL EVENT UNLESS PRECLUDED BY LEGAL, ATORY OR PHYSICAL ACCESS CONSTRAINTS. ALL REASONABLE EFFORTS MUST BE USED TO N ACCESS. ONCE ACCESS IS OBTAINED, REMOVAL AND STABILIZATION MUST TAKE PLACE DIATELY, BUT NO MORE THAN 7 DAYS LATER. CONTRACTOR IS RESPONSIBLE FOR CONTACTING PPROPRIATE AUTHORITIES AND RECEIVING THE APPLICABLE PERMITS PRIOR TO CONDUCTING ANY	
	MULATIONS OF TRACKED AND DEPOSITED SEDIMENT MUST BE REMOVED FROM OFF-SITE PAVED ACES WITHIN 24 HOURS OR SOONER IF REQUIRED. SEDIMENT TRACKING MUST BE MINIMIZED BY APPROPRIATE MANAGEMENT PRACTICE, LIKE A DEDICATED SITE EXIT WITH AN AGGREGATE SURFACE ESIGNATED OFFSITE PARKING AREA. CONTRACTOR IS RESPONSIBLE FOR STREET SWEEPING OR SCRAPING IF YOUR PRACTICES ARE NOT ADEQUATE TO PREVENT SEDIMENT FROM BEING KED FROM THE SITE.	
	ACE WATERS, DRAINAGE DITCHES AND CONVEYANCE SYSTEMS MUST BE INSPECTED FOR SEDIMENT SITS.	
	CONTRACTOR SHALL INSTALL AND MAINTAIN ALL EROSION CONTROL MEASURES AS INDICATED HIS SHEET IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) ARED BY KIMLEY-HORN AND ASSOCIATES, INC. THE CONTRACTOR IS RESPONSIBLE FOR MENTING THE PROVISIONS INDICATED IN THE SWPPP, INCLUDING EROSION CONTROL MEASURES NSPECTION FREQUENCY, AS REQUIRED BY THE IEPA NPDES PHASE II PERMIT PROGRAM REMENTS.	
	ING SEDIMENT LADEN WATER INTO ANY STORMWATER FACILITY THAT IS NOT DESIGNATED TO BE DIMENT TRAP, DRAINAGEWAY, OR OFFSITE AREA EITHER DIRECTLY OR INDIRECTLY WITHOUT ATION IS PROHIBITED.	
	STOCKPILES SHALL NOT BE LOCATED IN A DRAINAGEWAY, FLOOD PLAIN AREA OR A DESIGNATED ER, UNLESS OTHERWISE APPROVED, UNDER SPECIFIC CONDITIONS TO BE ESTABLISHED BY THE TOR OR ADMINISTRATOR.	I
	KPILES TO REMAIN IN PLACE FOR MORE THAN THREE DAYS SHALL BE PROVIDED WITH SESC URES. MATERIAL IS TO BE HAULED OFF IMMEDIATELY AND LEGALLY IF NO STOCKPILE IS TO IN IN PLACE.	I
	EMPORARY SESC MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION HIEVED.TRAPPED SEDIMENT AND OTHER DISTURBED SOILS RESULTING FROM TEMPORARY URES SHALL BE PROPERLY DISPOSED OF PRIOR TO PERMANENT STABILIZATION.	I
	R REMOVED FROM TRAPS, BASINS, AND OTHER WATER HOLDING DEPRESSIONS OR EXCAVATIONS FIRST PASS THROUGH A SEDIMENT CONTROL AND/OR FILTRATION DEVICE. WHEN DEWATERING ES ARE USED, DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. STABILIZATION REQUIREMENTS ARE AS FOLLOWS:	9.
	HERE THE INITIATION OF STABILIZATION MEASURE BY THE <u>7TH DAY</u> AFTER CONSTRUCTION CTIVITY TEMPORARILY OR PERMANENTLY CEASES ON A PORTION OF THE SITE IS PRECLUDED BY	20.1
	NOW COVER, STABILIZATION MEASURE SHALL BE INITIATED AS SOON AS PRACTICABLE. HERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN <u>14 DAYS</u> FROM HEN ACTIVITIES CEASED, (E.G. THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS	20.2
	EMPORARILY CEASED IS LESS THAN <u>14 DAYS</u>) THEN STABILIZATION MEASURES DO NOT HAVE TO E INITIATED ON THAT PORTION OF THE SITE BY THE <u>7TH DAY</u> AFTER CONSTRUCTION ACTIVITY EMPORARILY CEASED. MPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED	1. ^
	AMENDMENTS OF THE SITE DEVELOPMENT OR EROSION AND SEDIMENTATION CONTROL PLANS	

FF

SSS

I, ERIC TRACY, A LICENSED PROFESSIONAL ENGINEER OF ILLINOIS, HEREBY CERTIFY THAT THIS EROSION CONTROL PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, AND COMPLIES WITH THE URBAN SOIL EROSION CONTROL AND STANDARDS IN ILLINOIS MANUAL (LATEST EDITION) AND THE GENERALLY RECOGNIZED METHODS IN USE IN THE AREA.

DATED	TLIC	
DAILD	11113	

___ DAY OF ______, A.D., 2018.

ILLINOIS LICENSED PROFESSIONAL ENGINEER 062-069653 MY LICENSE EXPIRES ON NOVEMBER 30, 2019

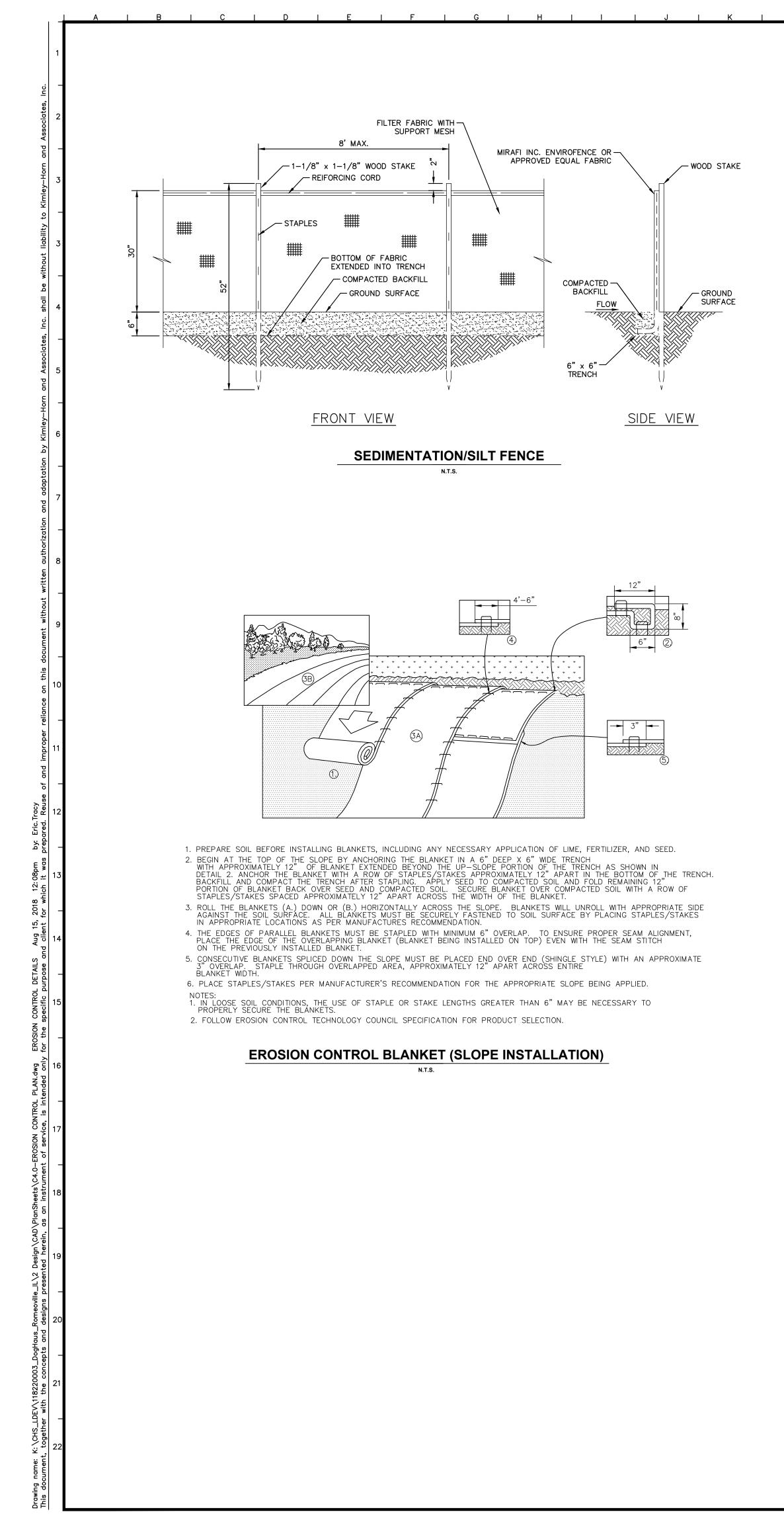


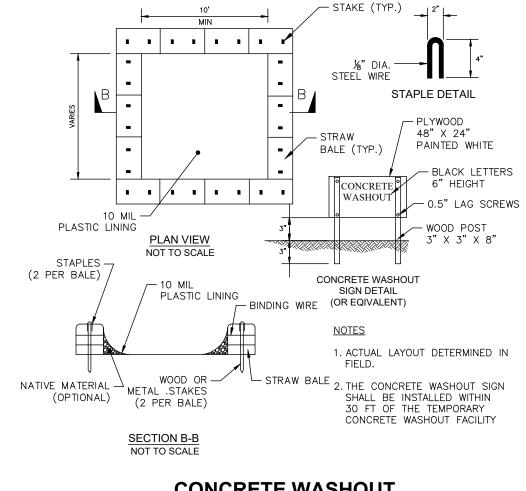
ORIGINAL ISSUE:

06/07/2018

KHA PROJECT NO.

118220003



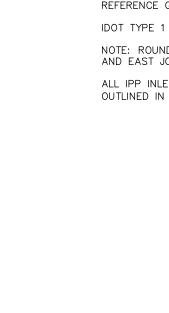


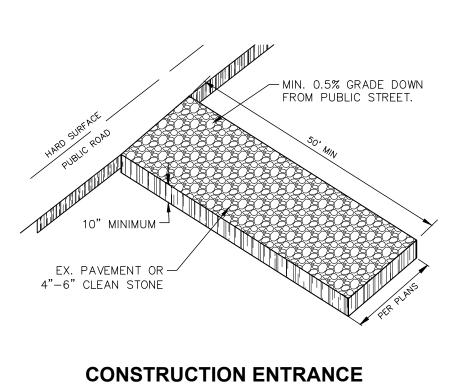
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STABILIZATION TYPE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ост.	NOV.	DEC.
PERMANENT			A			*	*					
SEEDING			-									
	В		_								В	
SEEDING	, ,											
TEMPORARY			С				D					
SEEDING												
SODDING			E									
			**									
	F											
MULCHING												

C SPRING OATS 100 LBS/ACRE

SEEDING CHART

150 LBS/ACRE

A KENTUCKY BLUEGRASS 90 LBS/ACRE MIXED WITH PERENNIAL D WHEAT OR CEREAL RYE RYEGRASS 30 LBS/ACRE

B KENTUCKY BLUEGRASS 135
 KENTUCKY BLUEGRASS 100
 L
 002

 LBS/ACRE MIXED WITH PERENNIAL
 F
 STRAW MULCH 2 TONS/ACRE
 TONS STRAW MULCH/ACRE

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					NMIEV »HO		© 2018 KIMLEY-HORN AND ASSOCIA 1001 Warrenville road. Suite	LISLE, IL 60532 DHONE: 630-487-5550	
							© 2018	LISLE,	WWW.K
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ORIGINAL ISSUE: 06/07/2018 KHA PROJECT NO. 118220003 SHEET NUMBER

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INLET PROTECTION

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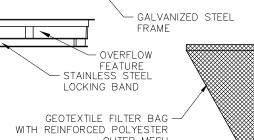
AND EAST JORDAN BEEHIVE, ROLL CURB AND CURB BOX FRAME TYPES ALL IPP INLET FILTERS TO CONFORM TO IDOT SPECIFICATIONS AS OUTLINED IN ARTICLE 1081.15 OF IDOT'S STANDARD SPECIFICATIONS GUIDE.

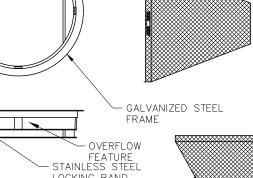
IDOT TYPE 1 ROUND INLET FILTER DEPICTED NOTE: ROUND AND SQUARE INLET FILTERS AVAILABLE FOR MOST NEENAH

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

NOTE: INLET FILTERS ARE SLIGHTLY SMALLER THAN THE INLET GRATE

OUTER MESH GENERAL NOTES: ALL PRODUCTS MANUFACTURED BY INLET AND PIPE PROTECTION, INC OR APPROVED EQUAL.

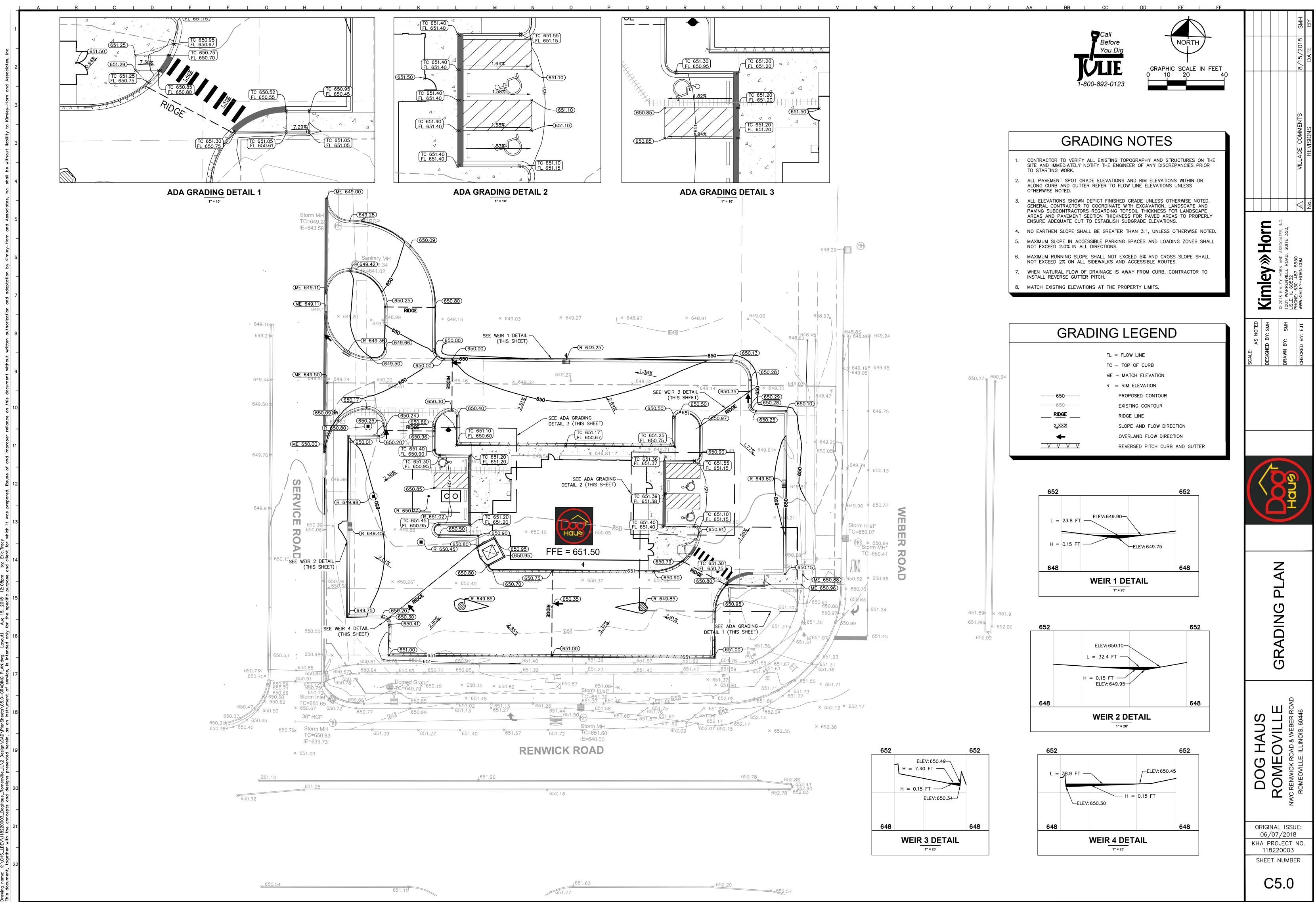


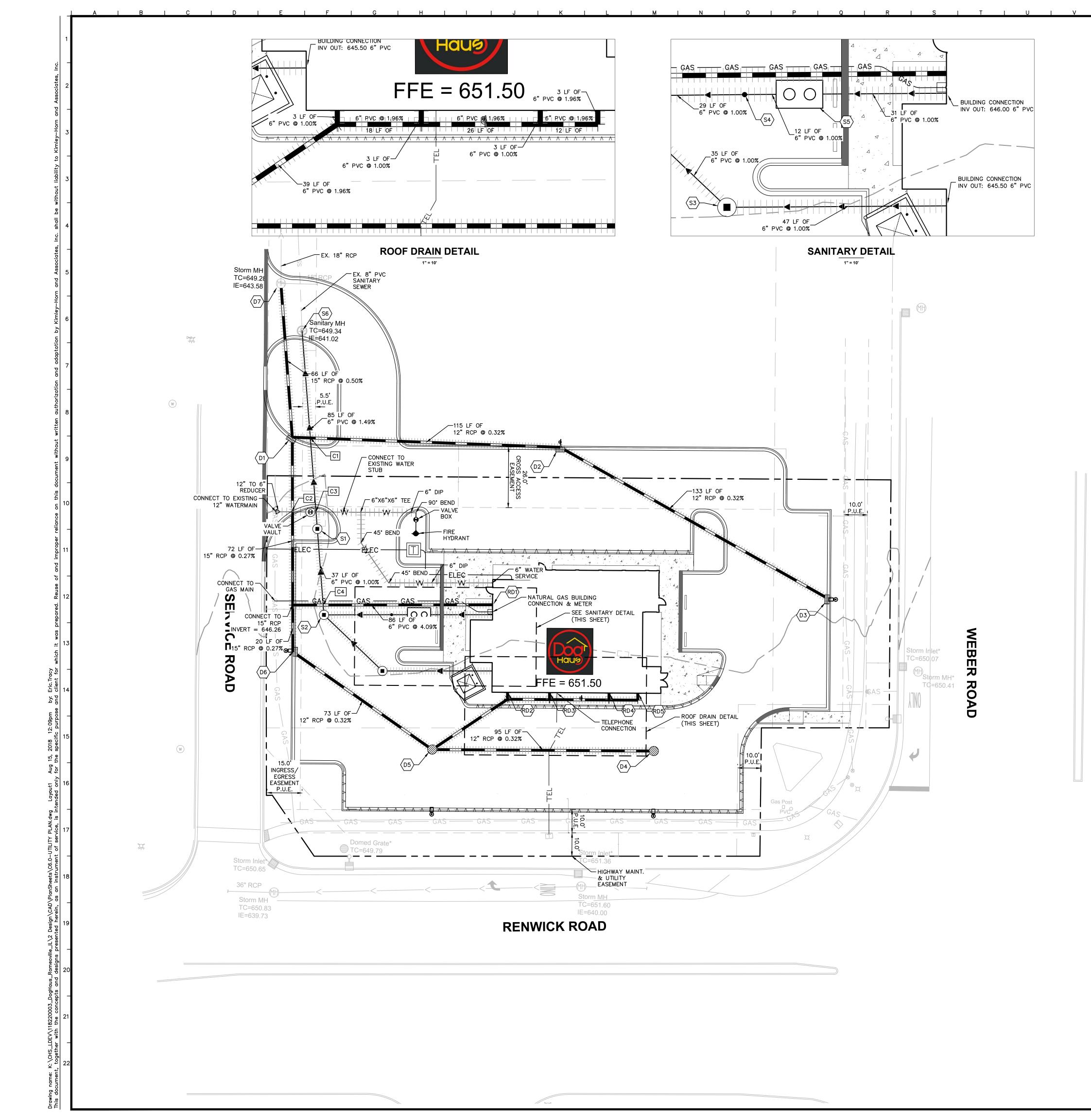


_____LIFT HANDLES

I R I S I T I U I V I W I X I Y I Z I AA I BB I CC I DD I

* IRRIGATION NEEDED DURING JUNE AND JULY ** IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD



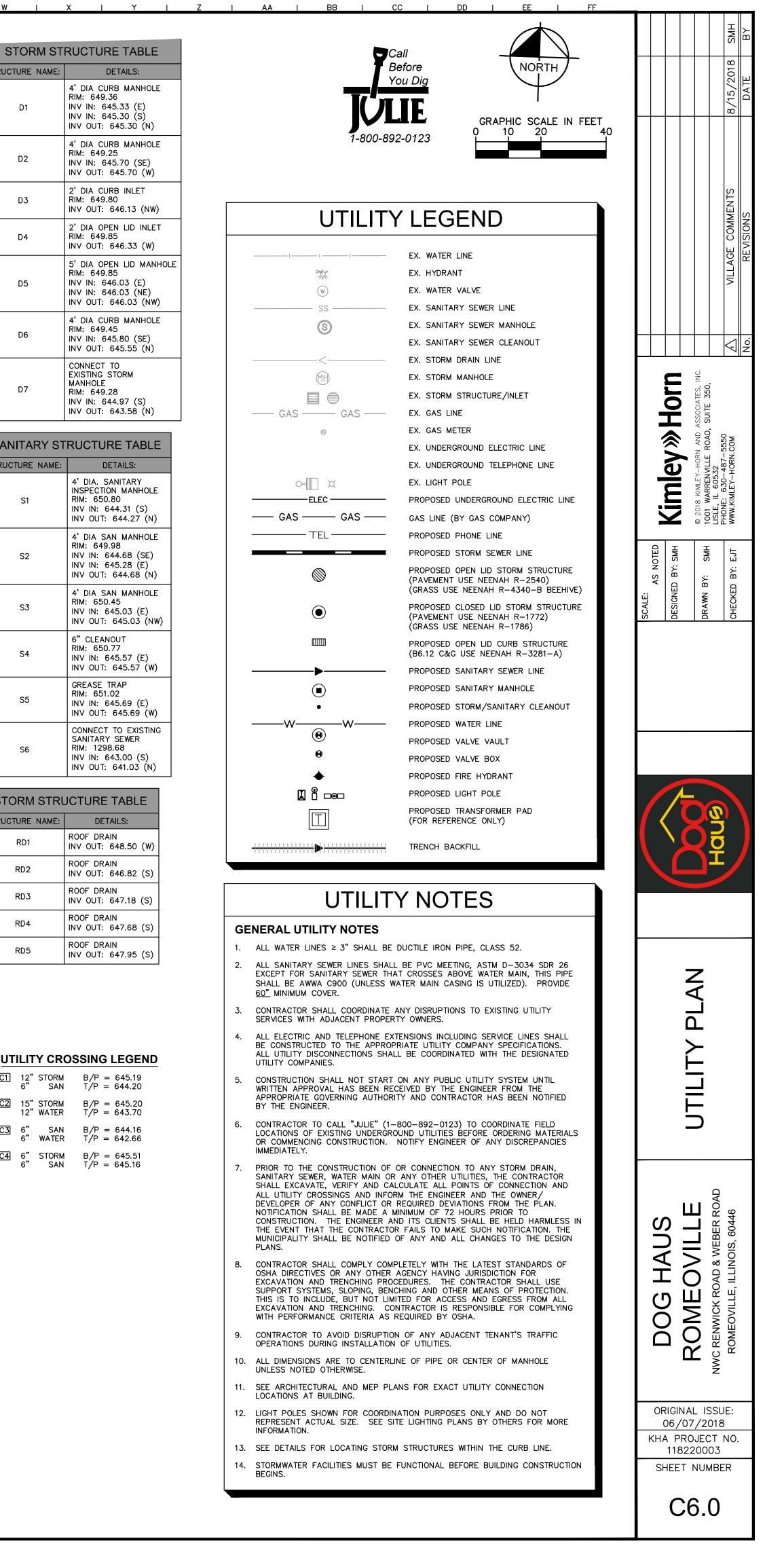


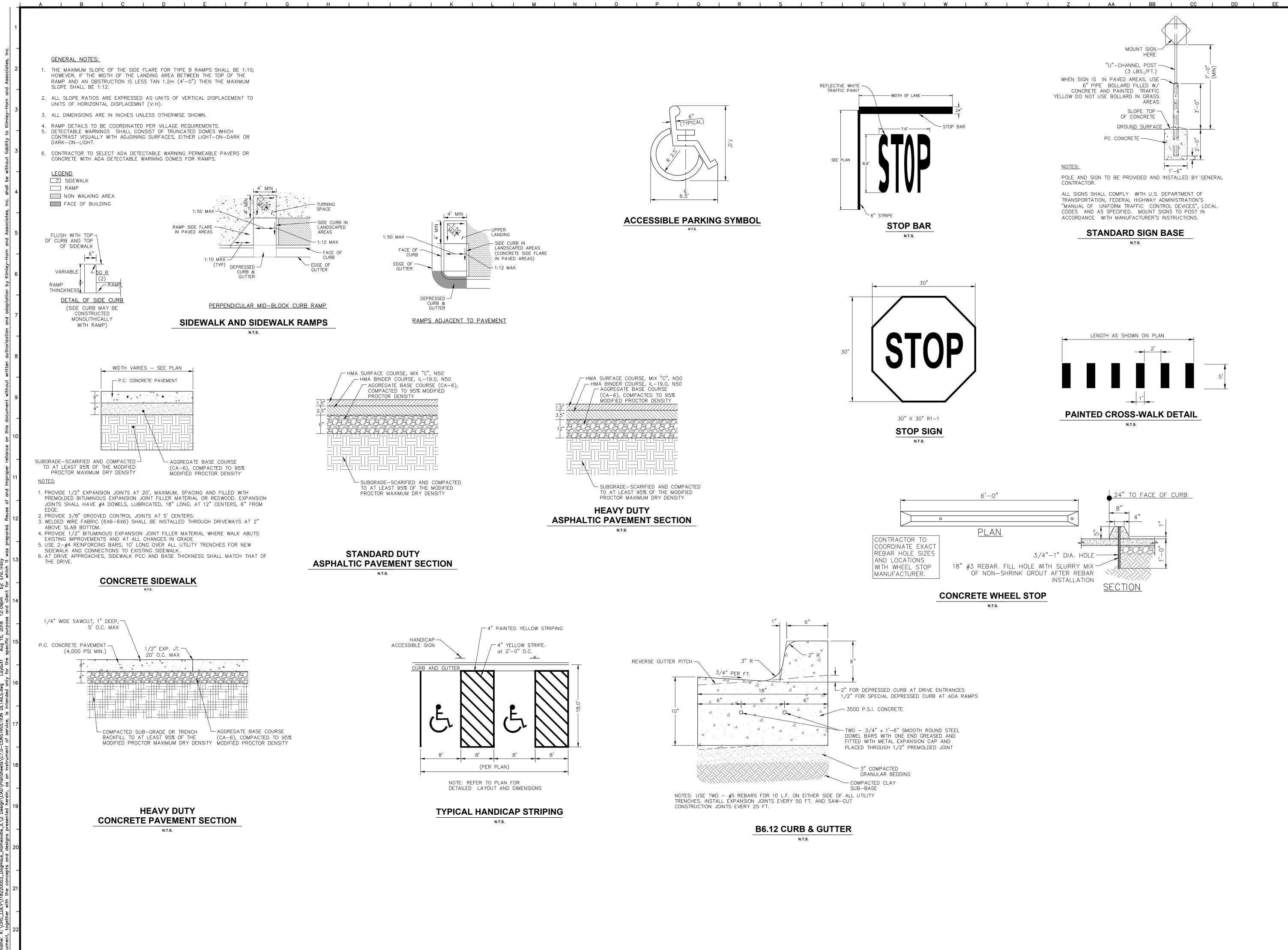
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D2	
D3	-
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D5	
D6	
D7	
SANITARY ST	F
STRUCTURE NAME:	Ī
S1	
S2	
S3	
S4	
S5	
S6	
STORM STRU	J
STRUCTURE NAME:	
RD1	
RD2	
RD3	
RD4	
-	-
RD5	l

w

STRUCTURE NAME:

UT	ILIT	Y CRC
C1	12" 6"	STORM SAN
<u>C2</u>	15" 12"	STORM WATER
C3	6" 6"	SAN WATER
C4	6" 6"	STORM SAN





		_	_		_	_
					SMH	2
MOUNT SIGN HERE "U"-CHANNEL POST (3 LBS./FT.) WHEN SIGN IS IN PAVED AREAS, USE 6" PIPE BOLLARD FILLED W/					8/15/2018	D A TE
CONCRETE AND PAINTED TRAFFIC YELLOW DO NOT USE BOLLARD IN GRASS AREAS SLOPE TOP OF CONCRETE GROUND SURFACE PC CONCRETE					SE COMMENTS	
NOTES: POLE AND SIGN TO BE PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. ALL SIGNS SHALL COMPLY WITH U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", LOCAL CODES AND AS SPECIFIED. MOUNT SIGNS TO POST IN					NILLAGE	
ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. STANDARD SIGN BASE N.T.S.				o, INC.	\triangleleft	
		Vindan Maria	NIMBY » TOP	WARRE WARRE	PHONE: 630-487-5550 WWW.KIMLEY-HORN.COM	
LENGTH AS SHOWN ON PLAN 2' 	SCALE:	AS NOTED	DESIGNED BY: SMH	DRAWN BY: SMH	CHECKED BY: EJT	
NT. NT. NT. NT. NT. NT. NT. NT.						
			CONSTRUCTION	DETAILS		
		DOG HAUS		NWC RENWICK ROAD & WEBER ROAD	ROMEOVILLE, ILLINOIS, 60446	
	 	0 <ha< td=""><td>06/0 PR(1182</td><td>L ISSI 7/2018 DJECT 20003</td><td>8 NO.</td><td></td></ha<>	06/0 PR(1182	L ISSI 7/2018 DJECT 20003	8 NO.	



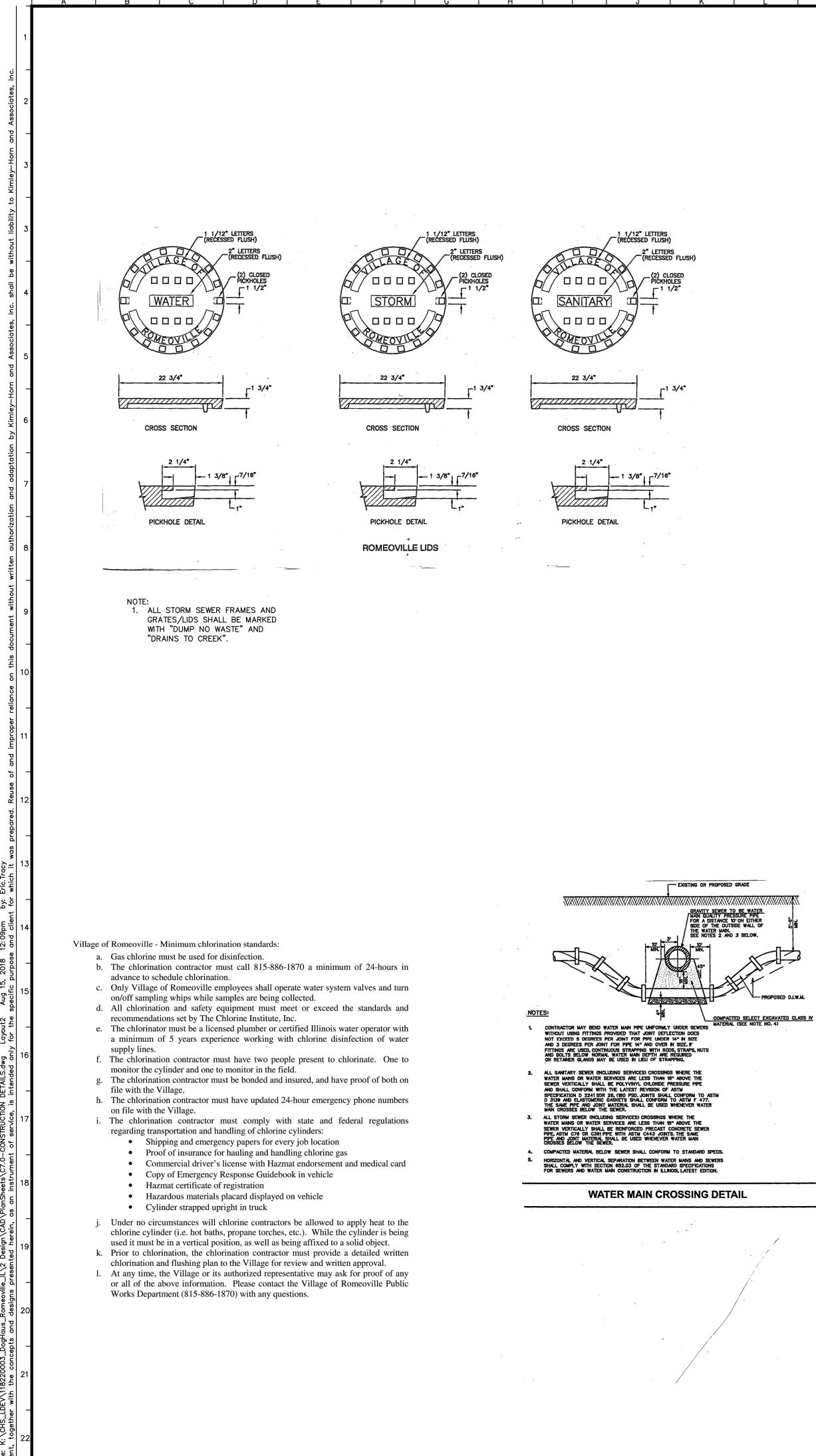
6'-0"

<u>Plan</u>

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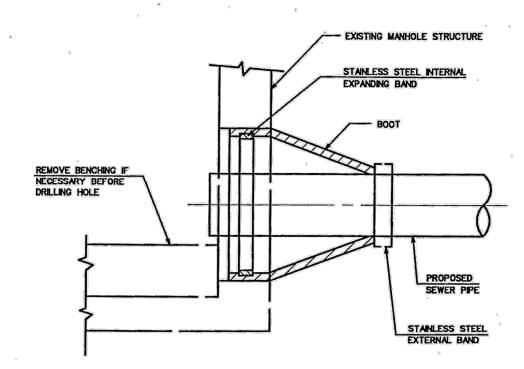


ANITARY SEWER CONNECTION TO EXISTING MANHOLE

8

- 4. CLEAN EXISTING MANHOLE OF ANY DIRT, CONCRETE DR DEBRIS WHICH MAY ACCUMULATE DURING THE CONSTRUCTION PROCESS.
- 3. CUT. SHAPE AND SLOPE NEW INVERT CHANNEL IN THE EXISTING CONCRETE BENCH FOR SMOOTH FLOW FROM NEW SANITARY SEWER CONNECTION.
- KOR-N SEAL FLEXIBLE RUBBER BOOT (MANUFACTURED BY NATIONAL POLLUTION CONTROL SYSTEMS, INC.) OR APPROVED EQUAL SHALL BE USED FOR WATERTIGHT CONNECTION.
- 1. CORE-DRILL CIRCULAR OPENING IN MANHOLE WALL OF DIAMETER TO FIT THE REQUIRED BOOT SIZE.





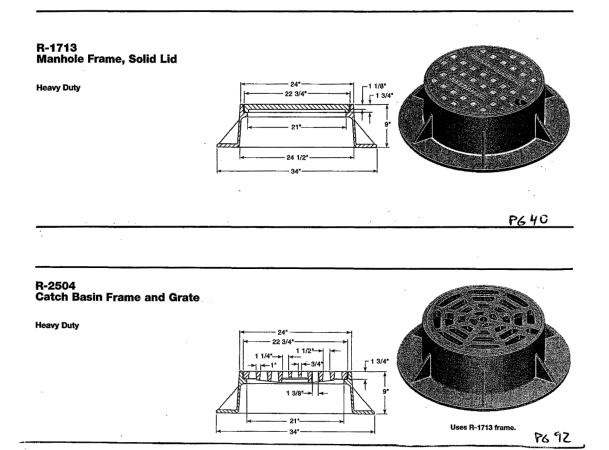
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PARKING FINE ACCESSIBLE PARKING SIGN WITH \$250 FINE SIGN MUTCD R7-8, 12"x18" IL. STD. R7-1101, 12"x6" **ACESSIBLE PARKING SIGN** a 127

.

RESERVED

9 9 10



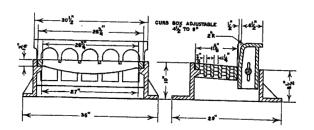
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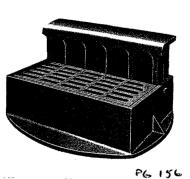
BB I

R-3281-A Curb Inlet Frame, Grate and Curb Box

X

Heavy Duty Also available with open curb box (no bars), or with flat curb plate instead of curb box. (See R-3246-1)





CC I

DD

1. ALL STORM SEWER FRAMES AND GRATES/LIDS SHALL BE MARKED WITH "DUMP NO WASTE" AND "DRAINS TO CREEK".

Final Acceptance and Testing of Sanitary Sewer

Before final acceptance, the sanitary sewers shall be tested in accordance with Section 31-1.11 of the "Standard Specifications for Water and Sewer Main Construction in Illinois". Specifically, all pipelines constructed of flexible materials shall be subject to air exfiltration tests, televising test, and deflection test. The deflection test shall be performed no sooner than thirty (30) days of the backfilling operation and shall consist of measuring the pipe for vertical ring deflection. Maximum ring deflection of the pipeline under load shall be limited to five (5) percent of the internal pipe diameter. All pipe exceeding this deflection shall be considered to have reached the limit of its serviceability and shall be re-laid or replaced by the developer. Deflection testing shall be accomplished by pulling a mandrel, sphere, or pin-type "go / no-go" device, with a diameter equal to ninety-five (95) percent of the undeflected inside diameter of the flexible pipe, through the pipeline. In addition, all sanitary sewer having a diameter of eight (8) inches or greater shall be televised. Copies of all video tapes must be submitted to the Village of Romeoville.

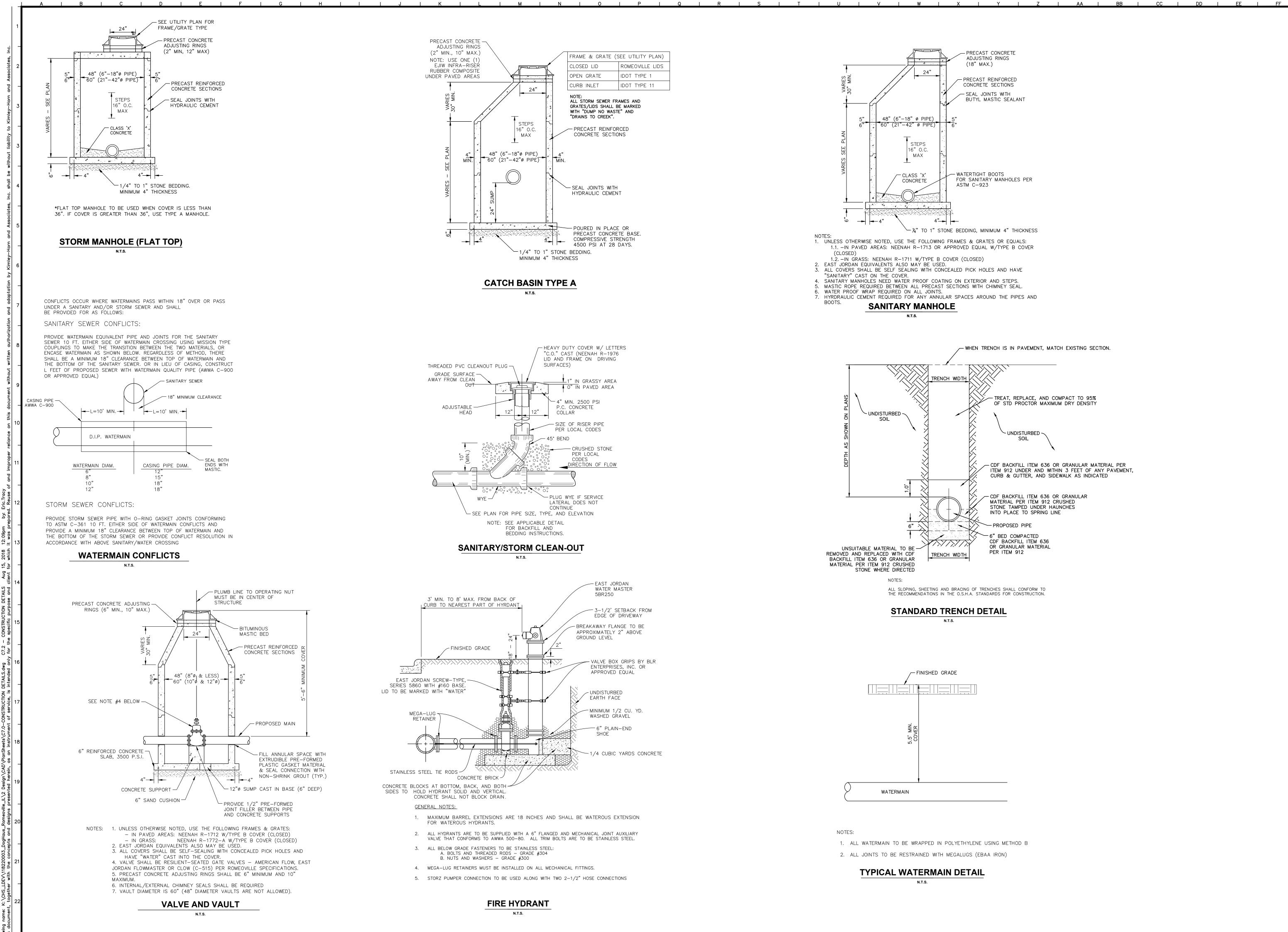
Final Testing of Sanitary Sewer Manholes

Vacuum Testing shall be carried out immediately after assembly and prior to backfilling of manholes that are up to seventy-two (72) inches in diameter. All lift holes shall be plugged with a non-shrink grout, or rubber plug. The manhole frame and adjusting rings and chimney seals shall be in place before testing. No grout shall be placed in the horizontal joints. All pipes entering the manhole shall be plugged, taking care to securely brace the plugs from being drawn into the manhole with the vacuum testing. Vacuum testing shall test all manholes for leakage. A vacuum of ten (10) inches of mercury shall be placed on the manhole and the time measured for the vacuum to drop to nine (9) inches of mercury. The vacuum drop shall not exceed the requirements shown in Table 1 of ASTM C1244-02. If testing fails, developer shall seal all leaks and retest until acceptable. The testing shall be completed prior to backfilling (whenever possible) so that any leaks can be found and fixed externally, and to give the horizontal manhole joints an opportunity to tighten.

Flow Monitoring prior to Acceptance

The developer will be required to monitor the flowrate from the site for a period of two months (encompassing at least two major storm events) to identify any excessive inflow/infiltration occurring in the system. The data must be submitted to the Village of Romeoville prior to acceptance of the public improvements.

			8/15/2018 SMH	DATE BY
			VILLAGE COMMENTS	REVISIONS
			\bigtriangledown	No.
	Kimley » Horn		PHONE: 630-487-5550 WWW.KIMLEY-HORN.COM	
SCALE: AS NOTED	DESIGNED BY: SMH	DRAWN BY: SMH	CHECKED BY: EJT	
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	7			
	CONSTRUCTION	DETAILS		
			46	



TYPICAL WATERMAIN DETAIL

N.T.S.

- TREAT, REPLACE, AND COMPACT TO 95% OF STD PROCTOR MAXIMUM DRY DENSITY ∽ UNDISTURBED ~ SOIL - CDF BACKFILL ITEM 636 OR GRANULAR MATERIAL PER ITEM 912 UNDER AND WITHIN 3 FEET OF ANY PAVEMENT, CURB & GUTTER, AND SIDEWALK AS INDICATED - CDF BACKFILL ITEM 636 OR GRANULAR MATERIAL PER ITEM 912 CRUSHED STONE TAMPED UNDER HAUNCHES INTO PLACE TO SPRING LINE - PROPOSED PIPE -6" BED COMPACTED CDF BACKFILL ITEM 636 OR GRANULAR MATERIAL PER ITEM 912

- WHEN TRENCH IS IN PAVEMENT, MATCH EXISTING SECTION.

WATERTIGHT BOOTS FOR SANITARY MANHOLES PER ASTM C-923

- PRECAST REINFORCED CONCRETE SECTIONS - SEAL JOINTS WITH BUTYL MASTIC SEALANT

- PRECAST CONCRETE

ADJUSTING RINGS

(18" MAX.)

24"

TRENCH WIDTH

/ \/ / \/ ,/

TRENCH WIDTH

N.T.S.

					18 SMH	BΥ
					8/15/2018	DATE
					VILLAGE COMMENTS	REVISIONS
					\bigtriangledown	No.
			0 2018 KIMLEY-HORN AND ASSOCIATES, INC. 1001 WARRENVILLE ROAD SLITTE 350		WWW.KIMLEY-HORN.COM	
SCALE:	AS NOTED	DESIGNED BY: SMH	 DRAWN BY: SMH		CHECKED BY: EJT	
				Haug		
					ROMEOVILLE, ILLINOIS, 60446	

PLANT SCHEDULE

<u>CANOPY TREES</u> AS TC	<u>QTY</u> 3 4	BOTANICAL NAME Acer rubrum `Red Sunset` Tilia cordata	<u>COMMON NAME</u> Red Sunset Maple Littleleaf Linden	<u>CONT</u> B & B B & B	<u>CALIPER</u> 2.5"Cal 2.5"Cal		<u>REMARKS</u> Strong central leader Strong central leader
<u>SHRUBS</u> IVH	<u>QTY</u> 45	BOTANICAL NAME Itea virginica `Henry`s Garnet`	<u>COMMON NAME</u> Henry`s Garnet Sweetspire	<u>CONT</u> Cont.	<u>HEIGHT</u> 30" HT MIN.		<u>REMARKS</u> Uniform; Dense; Full to t around
RKR	27	Rosa x `Knockout` TM	Knockout Rose	Cont.	30" HT MIN.		Uniform; Dense; Full to t
TD	22	Taxus x media `Densiformis`	Dense Yew	Cont.	36" HT. MIN.		ground Uniform; Dense; Full to t ground
ТН	8	Taxus x media `Hicksii`	Hicks Yew	Cont.	36" HT. MIN.		Uniform; Dense; Full to t
VLM	57	Viburnum lantana `Mohican`	Mohican Wayfaring Tree	Cont.	36" HT. MIN.		ground Uniform; Dense; Full to t ground
GROUND COVERS	<u>QTY</u> 53	BOTANICAL NAME Liriope muscari	COMMON NAME Lily Turf	<u>CONT</u> 1 gal.		<u>SPACING</u> 18" o.c.	REMARKS

INGRESS/ EGRESS EASEMENT P.U.D.

SERVICE ROAD

PERIMETER A

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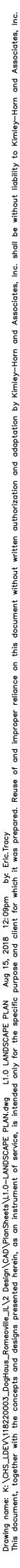
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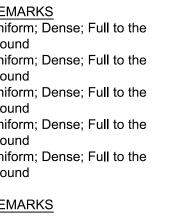
LEGEND

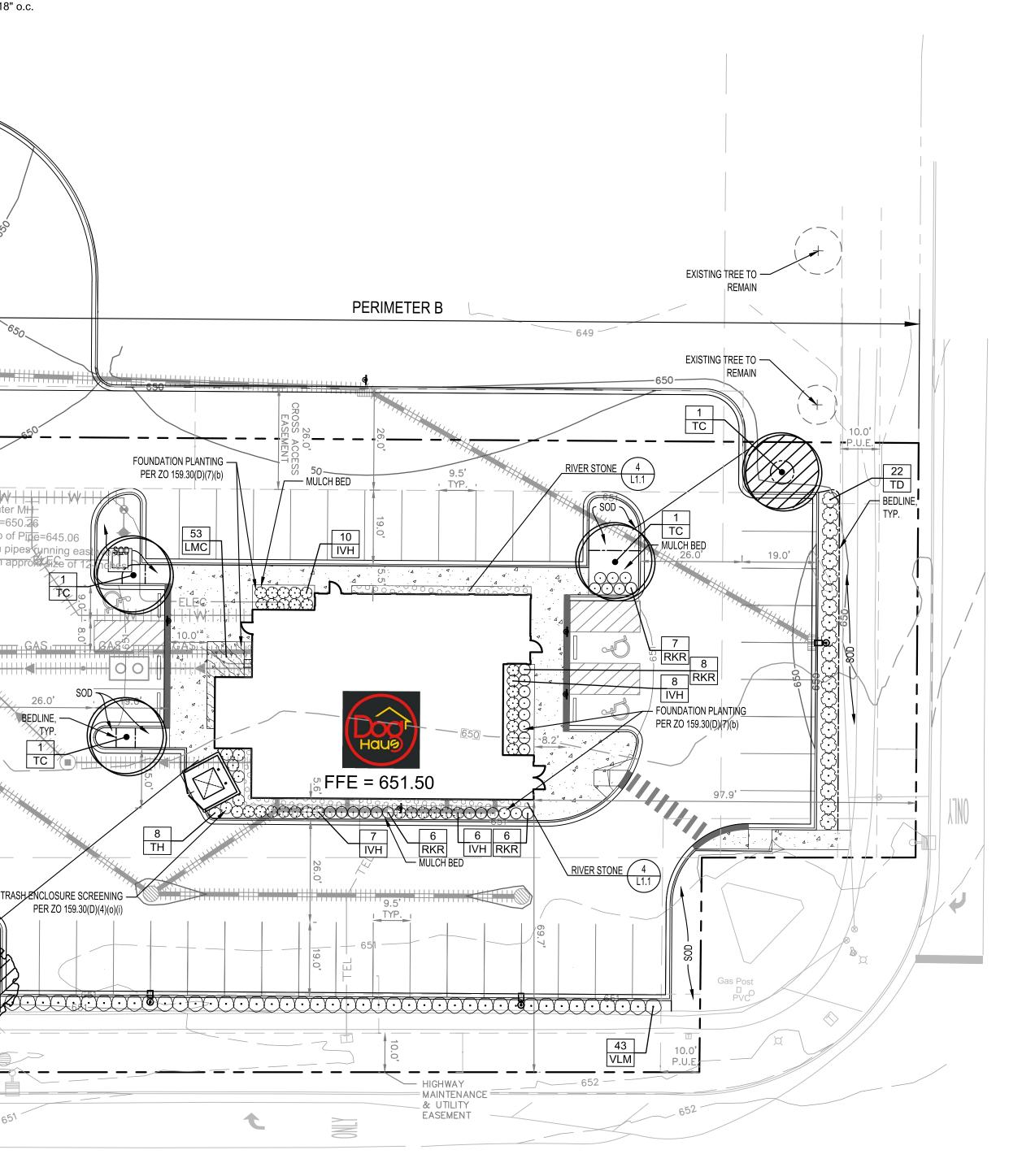
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TREE PRESERVATION REPLACEMENT TREE

PROPERTY LINE

BED LINE





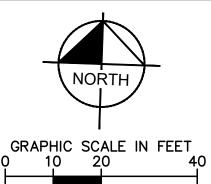
RENWICK ROAD



CC I DD

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Parking Lot Perimeter Lands	caping	ZO 159.30(D)(6)
<mark>Front Yard</mark> along Renwick Road		
Parking Perimeter Length= 171'	Required Length of Landscape Screen= Length of Landscape Screen Provided=	
Corner Side Yard along Weber Road		
Parking Perimeter Length= 86'	Required Length of Landscape Screen= Length of Landscape Screen Provided=	
<u>Side Yard</u> along Service Road		
Parking Perimeter Length= 95'	Required Length of Landscape Screen= Length of Landscape Screen Provided=	, , , , , , , , , , , , , , , , , , ,

Note:

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1. If a continuous row of shrubs or hedges is chosen for a Front Yard or Corner Yard, the entire parking lot frontage shall be screened (ZO 159.30(D)(6)(c)(b).

Perimeter Landscap	ing	ZO 159.30(D)(8)
<u>Perimeter A</u> along east boundary	Abutting Property Zoning= B-3 Frontage Length= 163'	
<u>Plant Material Type</u> Shade Tree	Quantity Required 1 per 75LF frontage= 3	<u>Quantity Provided</u> 3
<u>Perimeter B</u> along north boundary	Abutting Property Zoning= B-3 Frontage Length= 45'	(see note 1)
<u>Plant Material Type</u> Shade Tree	<u>Quantity Required</u> 1 per 75LF frontage= 1	<u>Quantity Provided</u> 1

Note:

1. Cross Access Easement is excluded from the frontage length.

Tree Preservation		ZO 159.30 (C)
Existing Trees to be Removed	Caliper	Replacement Trees Required
Deciduous Tree	4 inches	4
Deciduous Tree	5 inches	4
Deciduous Tree	5 inches	4
Total Replacem	ent Trees Required=	12
Daulaan		4
Replacem	ent Trees Provided=	4

Note:

1. Only trees to be removed with a caliper of 4-inches or greater are noted within this table (ZO 15930 (C)(1)). 2. Location, species, and size of replacement trees is noted on the landscape plan. 3. Replacement trees may not be located within the parking lot or within the public right-of-way

(ZO 159.30(C)(3)(i)(vi).



GENERAL NOTES

- 1. Plants shall be healthy, vigorous material, free of pests and diseases and are subject to approval/rejection of the Landscape Architect prior to, during and after installation.
- 2. Contractor shall identify all materials at growing location prior to purchase and submit digital photographs, and source list to the Landscape Architect for approval at a minimum of six (6) calendar weeks prior to installation. Plants not approved shall be resourced and resubmitted. 3. Planting beds and individual tree plantings shall be mulched continuously as specified.
- 4. Prior to construction the contractor shall be responsible for locating underground utilities and execute work in a manner that avoids damage to utilities during the course of work. Contractor shall be responsible or remedy of any damage to utilities, structures, site appurtenances that occur as a result of landscape related work. 5. Contractor is responsible for verifying quantities shown on documents. Field adjustments shall be
- approved by Landscape Architect prior to installation. Quantities indicated on drawings are for reference-it is the Contractor's responsibility to ensure full coverage of plants at the indicated spacing.
- 6. Contractor is responsible for maintenance of all plantings including, but not limited to watering, mowing, edging, spraying, mulching, fertilizing, of plantings and turf areas for one (1) calendar year from date of certificate of occupancy. Contractor is responsible for warranty of all plant material for a period of one (1) calendar year from date of certificate of occupancy. Warranty replacement planting shall meet or exceed the original specification identified on drawings. Replacement planting shall extend the same warranty as originally installed materials. Plantings and grass areas shall be flourishing and fully thriving at end of warranty period.
- 7. Plants identified for replacement by Owner, Landscape Architect shall be replaced immediately by the Contractor unless otherwise agreed upon. Plantings (trees, shrubs, groundcover) subject to replacement by warranty shall exhibit characteristics of 30% dead-per individual plant, non-contributing or disease compromised. Grass areas suitable for acceptance shall demonstrate 85% sustained/consistent and continuous, densely established coverage.
- Contractor shall perform a site review at end of warranty period and provide the Owner with written documentation of the site, including plant health, warranty replacement items, and conditions that may be influencing plant health. Contractor shall remove from plants and site, all staking and guying material at end of warranty period.
- 8. Contractor shall comply with all local, state and federal requirements, codes and regulations related to the work undertaken.
- 9. All material including planting operation appurtenances shall be of domestic origin manufacture and sourced within 100 miles of the project site.
- 10. Contractor is responsible for coordination among trades operating on site. Coordination and if necessary resulting modifications to schedules are responsibility of the Contractor.

PERFORMANCE SPECIFICATION

I. PLANTS

- A.General 1. Live healthy plants free of dead branches and parts
- 2. Free of disease, insect, injury and damage
- 3. Unbroken, intact, dense and solid rootballs and containers, without cracks, flat sides or previously repaired damage.
- 4. Free of girdling roots or rootbound/circling container conditions 5. Plants of consistent in growth habit and healthy character
- 6. Free of compromising growth conditions such as weak crotch connections, crossed branches, snags and
- 7. Point of origin growing location within 100 miles of project site

8. Graded, standards, caliper, sizes and stock consistent with ANSI Z60.1, American Standard for Nursery Stock most current edition 9. Species identified consistent with Hortus Third: Concise Dictionary of Plants Cultivated in the United States and Canada, most current edition and Manual of Woody Plants: Their Identification, Ornamental

- Characteristics, Culture, Propagation and Uses, most current edition 10. All disturbed areas shall be grass seed unless otherwise identified on landscape plans
- B. Trees:
- 1. Deciduous Single Trunk
- a. Full, straight and upright with consistent symmetrical natural branching pattern throughout b. Branching Height-seven (7) feet to lowest branch in two years unless otherwise required by local jurisdiction
- 2. Deciduous Multi-Trunk

a. Full and upright with straight consistent symmetrical natural branching pattern throughout b. Canes evenly spaced and of similar growth habit c. Free of suckers and extraneous branching

3. Evergreen Single-Trunk

- a. Full and upright with continuous symmetrical dense natural habit
- b. Clear branching height twelve (12) inches above top of rootball c. Free of suckers and extraneous branching
- d. Do not shear or otherwise prune to shape plantings

C.Evergreen and Deciduous Shrubs

- 1. Full, dense and naturally symmetrical.
- 2. Consistent with container and/or balled and burlapped size 3. Free of suckers and extraneous branching
- 4. Do not shear or otherwise prune or shape plantings

D. Evergreen and Deciduous Groundcover 1. Full and dense in pots or flats

E. Perennials and Seasonal Color 1. Full and dense in pots or flats

F. Turf Grass

- 1. Subgrade
- a. Soil Mix-10% Compost, 90% topsoil by volume b. Preparation-loosen subgrade to a minimum depth of four (4) inches. Remove all non-natural materials
- including litter, stones, sticks and all items greater than ³/₄ inch in any dimension c. Preparation-spread soil mix at a depth of four (4) inches continuously to meet grade elevations shown on drawings. Allow for thickness of sod when applicable

2. Grass Sod

- a. Install not longer than twenty-four (24) hours from harvest
- b. Grass bed not less than two (2) inches in continuous thickness
- c. 100% continuous live sod coverage after first growing season and at end of warranty period. d. Of uniform non-varying density and continuous texture quality capable of growth and development
- immediately upon installation. Weed and noxious plant free
- e. Stagger installation rows and place aligned parallel to contours f. Fill joints solidly with planting bed preparation soil
- g. Provide anchor pins at twenty-four (24) inches on center for slopes greater than 4:1

3. Grass Seed

- a. Mix approved by the Landscape Architect
- b. Provide first and new of year seed crops in mix free of weed seeds and deleterious matter
- c. Provide seed mix not greater than 15% annual or perennial rye d. Coverage 85% continuous coverage live stand after first growing season and at end of warranty
- e. Replacement or overseeding mixes consistent with original application/installation
- f. Provide erosion blankets or other slope retention methods as noted on drawings

II. Materials and Appurtenances

- A.Testing
- 1. Materials testing information/certificates/dated labels shall be current to the project and performed/certified not greater than 120 calendar previous days from current date of submittal for review

B. Top Soil

- 1. Neutral Ph balance 5.5 -7.5. Friable and containing 2.0-5.0% organic matter by dry weight. Continuously free of non-soil items such as stones, debris, sticks, trash, and deleterious matter greater than ³/₄ inch in any direction. Clay content shall not exceed 25%. Gravel content shall not exceed 10%. Silt shall not exceed 25%
- C.Use of Existing Topsoil
- 1. Existing topsoil on-site may be repurposed with prior Owner approval. Contractor shall provide soil testing and additive program that demonstrates consistent performance and characteristics and composition as identified herein. Owner shall approve soil testing and soil amendment/additive methods and procedures

- D. Shredded Hardwood Mulch
- Neutral Ph balance 5.5-7.5
- E. Composted Pine Bark Fines wood content

F. Compost Ph

Consistent with US-EPA CFR Title 40 Part 503 Standards for Class A biosolids

G.Compost Testing

- requirements

H.Planting Mix 1. 85% topsoil and 15% Compost

- I. Fertilizer
- Product and Material Safety Data as approved by Owner

J. Herbicide

- K. Water 1. Potable only unless otherwise approved by Owner
- L. Hardwood Stakes

M.Tree Ties

1. Villa Non-Abrasive Rubber Tree Ties or approved equal

N.Filter Fabric 1. Mirafi 140-N or approved equal

O.Steel Edging

P. River Stone

- 2. Size shall not exceed 3 total inches in any dimension.
- 3. Color and texture approved by Owner
- 5. Concrete or mortar as approved by owner.

III. Execution

A.Site Conditions

- of acceptance prior to commencement of work.
- access to storage/work areas, damage to conditions, etc.
- 4. Notify Owner in writing immediately of any items that may influence work schedule, timing of tasks, materials delivery and/or installation and warranty responsibilities.

B.Planting Seasons

work by others.

Recommended seasons are a general guide based on historical climatic data and typical performance of plantings, and which vary dependent on project-specific environmental conditions. Due to construction schedules, recommended planting seasons may/may not coincide with request(s) for certificate of occupancy for projects. Coordination of planting installation and seasons shall be reviewed with Owner on an individual project basis.

Deciduous and Evergreen Trees

2. Dogwood (Cornus Sp.)

3. Sweetgum (Liquidambar Sp.)

4. Spring Flowering Bulbs

No Plant Installation

C.Positioning & Location of Plantings

Plan accordingly for procurement of materials

a. Install/plant in season per approved schedule

5. Seasonal Annuals

3. Perennials

6. Turf Grass

installation

Owner approval

D.Implementation

E. Clean Up

Architect.

furnishings, etc.

1. 100% organic shredded first year hardwood free of deleterious matter, rock, gravel and weed seed.

1. 100% organic ground pine bark with no particle dimension greater than ³/₄-inch and no greater than 10%

1. Balanced 5.0-8.5 mature, stable and weed free produced by natural aerobic decomposition. Free of visible contaminants and toxic substances. Not greater than 5% sand, silt, clay or rock by dry weight.

1. Prior to delivery on-site, the following items are required for approval by Owner: Feedstock percentage in final compost product; statement that the products meets federal, state and local health safety

2. Provide copy of lab analysis less than 120 calendar days old verifying that the product meets described physical requirements; chemical contaminants; Ph; physical contaminants; biological contaminants (including a statement that fecal coliform and salmonella testing and results comply with requirements of the US Composting Council Seal of Testing approval programs

1. Granular 10% nitrogen, 6% Phosphorous, 4% Potassium granular form with 50% Nitrogen in organic form.

1. Product and Material Safety Data as approved by Owner

1. 2 x 2 x 48 inch square of sound hardwood, painted flat black on all sides

1. 1/8-inch x 4-inch in full sections. Ryerson, Timec or approved equal with integral stakes. No open corners. Corners shall be formed and trued to compliant angle or welded closed

1. Locally sourced, river rounded, unfaceted river stone/cobbles.

4. When placed in concrete or mortar setting bed, tamp to secure and brush clear joints.

1. Inspect site and notify Owner in writing of acceptance with indication that project conditions are acceptable are suitable to proceed with work. Notify Owner of any existing damage and/or other conflicting conditions. 2. Do not proceed with work until unsatisfactory conditions have been satisfactorily remedied. Notify Owner

3. Notify Owner in writing of any conditions that may preclude successful completion of work including items such as coordination with other trades, incomplete work, drainage, soil temperature and/or composition,

5. Coordinate and cooperate with other trades working in and adjacent to work areas. Examine drawings of

other trades which show development of the entire project and become familiar with the scope of required

a. Do not install/plant the following trees between September 15 and March 15 1. Oaks (Quercus Sp., Such as Q. rubra, Q. alba, Q. phellos, Q. coccinnea)

4. All Conifers and Evergreens except White Pine (Pinus strobus Sp.)

2. Deciduous and Evergreen Shrubs

a. Install/plant between March 15 and June 15 and/or September 15 and November 30

a. Install/plant between March 15 and May 15 and/or September 15 and November 30

1. Position plants to show the most-prominent and well-formed face to most-public view

availability are not cause for non-completion of scheduled delivery of work

5. Report delays due to extraordinary natural or other conditions beyond control of Contractor

remedy of schedule delays. Do not work, place or modify frozen soil

degrees Fahrenheit, or forecast for a twelve (12) hour period after completion of work

a. Install/plant between September 15 and December 15

b. Do not install/plant seed or sod turf grass areas when ambient air temperature is below forty (40)

a. Do not install plantings or turf grass between June 15 and September 15, without approval by Owner

2. Field locate plants and location/spacing/dimension of planting beds on project site prior to beginning

3. Verify location of individual plants and plant beds prior to beginning installation. Do not proceed without

1. Pursue work continuously without delay or interruption until completion unless notified otherwise by Owner

2. Provide project submittals ahead of commencement of work. Landscape Architect requires a minimum of

ten (10) working days from date of receipt for review of submittals and response to Owner and Contractor.

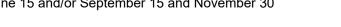
3. Continuously update implementation schedule and notify Owner of progress. Delays related to material

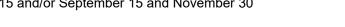
4. Report delays due to weather or site conditions immediately upon finding. Provide recommendation for

1. Remove trash, debris and work materials from site prior to request for substantial completion. Thoroughly

clean surfaces impacted by work including building, parking areas, roadways, sidewalks, signs, lights, site

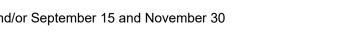
a. Install/plant between March 15 and June 15 and/or September 15 and November 30





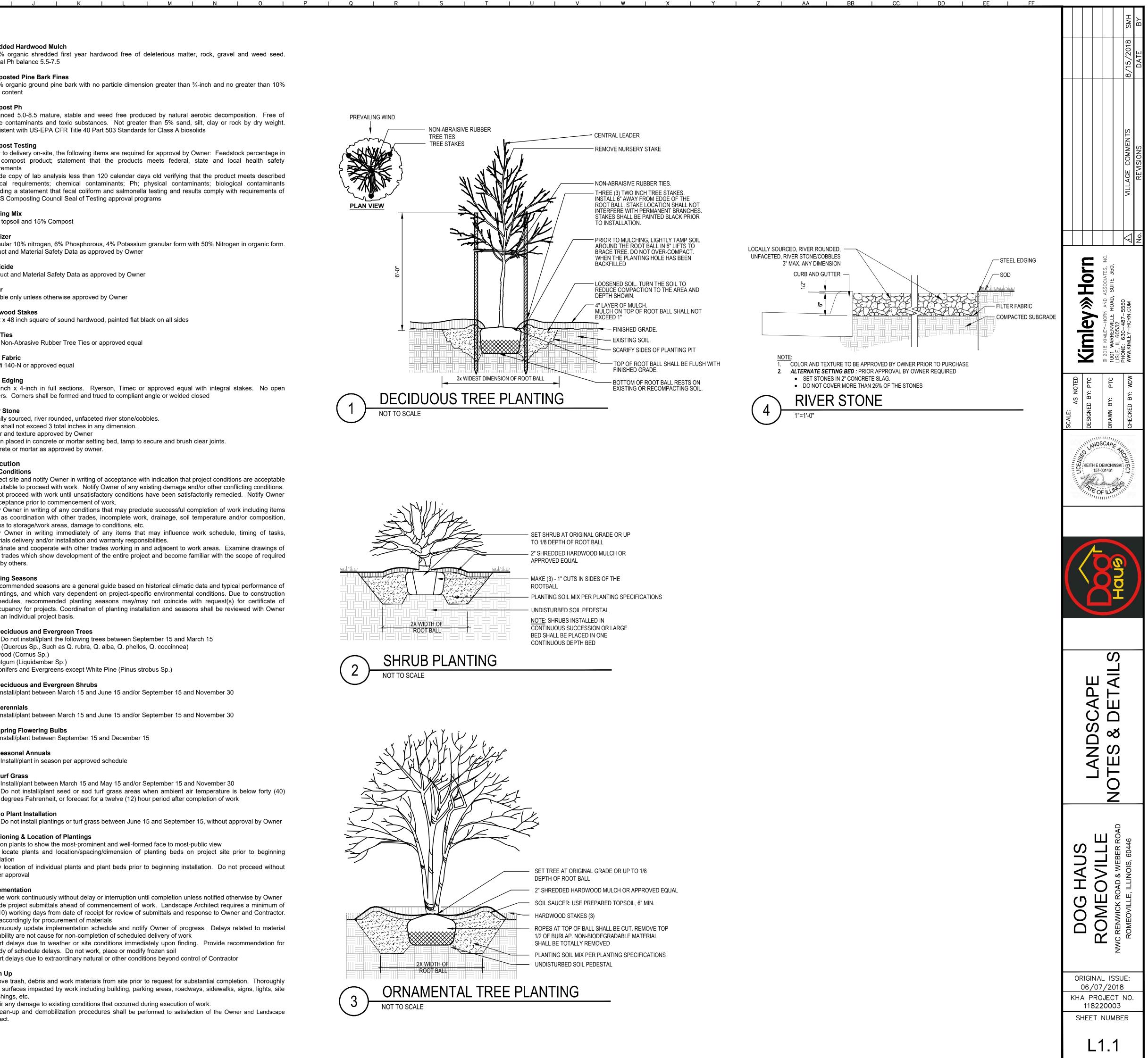


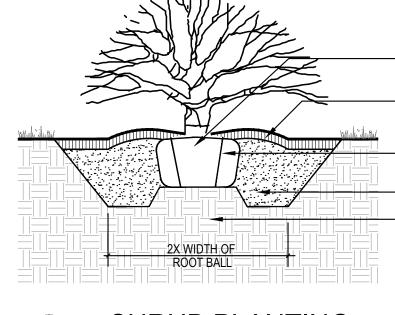


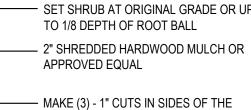












2. Repair any damage to existing conditions that occurred during execution of work.

3. All clean-up and demobilization procedures shall be performed to satisfaction of the Owner and Landscape

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