





nis Soil Erosion & Sediment Control (SESC) Plan has been prepared to fulfill one of the requirements f the National Pollutant Discharge Elimination System (NPDES) General Permit No. ILR10The ESC Plan should be maintained on site as an integral component of the Storm Water Pollution Prevention	D. Storm Water Management Provided below is a description of measures that will be insta
lan (SWPPP). The SWPPP, including the SESC Plan, should be amended whenever there is a change in design, onstruction, operation, or maintenance, which has a significant effect on the potential for the discharge f pollutants to the Waters of the State and which has not otherwise been addressed in the SWPPP. The SWPPP, hall also be amonded if it proves to be ineffective in eliminating or significantly minimizing pollutants, or in	the pollutants in storm water discharges that will occur after The installation of these devices may be subject to Section 40 1) The practices selected for implementation were determined
onstruction site activity. In addition, the SWPPP shall be amended to identify any new contractor and/or ubcontractor that will implement a measure of the SWPPP.	<ul> <li>in IEPA's Illinois Urban Manual, Federal, State, and/or Local measures include:</li> <li>detention basins (wet basins, dry basins, etc.)</li> </ul>
. The following is a description of the nature of the construction activity:	<ul> <li>retention basins</li> <li>vegetated swales</li> <li>infiltration trenches</li> <li>other measures</li> </ul>
<ul> <li>The following is a description of the intended sequence of construction activities which will disturb soils for major portions of the construction site:</li> <li>escribe proposed construction sequence, sample follows:</li> </ul>	2) Velocity dissipation devices, such as rip-rap aprons at fl at discharge locations and along the length of any outfall ch flow from the structure to a watercourse so that the natural, are maintained and protected (e.g., maintenance of hydrologic
) Install perimeter sediment control measures a) Selective vegetation removal for silt fence installation b) Silt fence installation	present prior to the initiation of construction activities). E. Waste Management
<ul> <li>c) Construction fencing around areas not to be disturbed</li> <li>d) Stabilized construction entrance</li> <li>) Clear and grub (as necessary)</li> <li>) Construct sediment trapping devices (sediment traps, sediment basins, etc.)</li> </ul>	Solid waste materials including trash, construction debris, items will be collected and disposed of off site by the cont required for such disposal. Burning on site will not be per shall be discharged to Waters of the State, except as author
) Construct detention facilities and outlet control structure with restrictor & temporary perforated riser ) Strip topsoil, stockpile topsoil and grade site ) Temporarily stabilize topsoil stockpiles (seed and silt fence around toe of slope) ) Jestall storm semar, seption, semar, watermain and associated inlat & outlet sectention	collected and stored in approved receptacles. No wastes sho containers appropriate for the materials being discarded. The other containers which may leak. Receptacles with deficienc clean-up procedure should take place, if necessary. Constru
) Permanently stabilize detention basins with seed and erosion control blanket ) Temporarily stabilize all areas including lots that have reached mass grade 0) Install roadways 1) Permanently, stabilize all aution areas	On-site hazardous material storage should be minimized and s waste. All hazardous waste should be disposed of in the man
<ul> <li>install buildings and grade individual lots</li> <li>Permanently stabilize lots</li> <li>Remove all temporary soil erosion and sediment control measures after the site is stabilized with vegetation</li> </ul>	F. Concrete Waste Management
<ul> <li>The site has a total acreage of approximatelyacres. Construction activity will disturb pproximatelyacres of the site.</li> <li>1) An estimated runoff coefficient of the site after construction activities are completed is</li> </ul>	watercourse. When practicable, a sign should be posted at ear practicable, concrete washout areas should be located a reas watercourse, and should be located at least 10 feet behind the A stabilized entrance that meets Illinois Urban Manual stand
<ul> <li>2) Existing data describing the soil or quality of any discharge from the site is included in</li> <li>Refer to Sheets for a site plan indicating:</li> </ul>	The containment facilities should be of sufficient volume to including enough capacity for anticipated levels of rainwate up and disposed of properly when 66% capacity is reached. He
<ol> <li>arainage patterns;</li> <li>approximate slopes anticipated before and after major grading activities;</li> <li>locations where vehicles enter or exit the site and controls to minimize off-site sediment tracking;</li> <li>areas of soil disturbance;</li> </ol>	used again on site (as approved by the Engineer) or hauled o G. Concrete Cutting
<ul> <li>a) the location of major structural and honstructural controls;</li> <li>b) the location of areas where stabilization practices are expected to occur;</li> <li>c) surface waters (including wetlands); and,</li> <li>c) locations where storm water is discharged to a surface water.</li> </ul>	Concrete waste management should be implemented to contain a not take place during or immediately after a rainfall event, concrete cutting should be cleaned-up and disposed into the o
<ul> <li>1) The name of the receiving water(s) is(are):</li> <li>2) The name of the ultimate receiving water is:</li> <li>3) The extent of wetland acreage at the site isacres.</li> </ul>	H. Vehicle Storage and Maintenance When not in use, construction vehicles should be stored in a regulatory floodplain, away from any natural or created water
<ul> <li>Potential sources of pollution associated with this construction activity may include:</li> <li>sediment from disturbed soils</li> <li>portable sanitary stations</li> </ul>	drains or water courses. Vehicle maintenance (including both should be made within a designated area(s) to prevent the mig into watercourses, wetlands or storm drains. Drip pans or at and equipment maintenance activities that involve grasse, ai
- fuel tanks - staging areas - waste containers - chemical storage areas	vehicles should be inspected frequently to identify any leaks vehicle should be removed from site. Dispose of all used oi chemicals in accordance with United States Environmental Pro- regulations and per Material Safety Data Sheet (MSDS) and/or
- oil or other petroleum products - adhesives - tar - solvents - detergente	should immediately report spills to the Primary Contact. I. Material Storage and Good Housekeeping
- gerergents - fertilizers - raw materials (e.g., bagged portland cement) - construction debris - landcome wate	Materials and/or contaminants should be stored in a manner th storm drains or watercourses. An on-site area should be des materials kept on site should be stored in their original con roof or other enclosure. Labels should be replaced if damage
- concrete and concrete trucks - litter P. CONTROLS	are an acceptable control measure to prevent contamination or referencing clean-up procedures. Any release of chemicals/con disposed of properly. Contractors should immediately report the appropriate agencies, if needed.
This section of the SESC Plan addresses the various controls that should be implemented for each of the major construction activities described in the "Site Description" section. For each measure identified in the WPPP, the contractor(s) or subcontractor(s) that will implement the measure should be identified. All contractors	To reduce the risks associated with hazardous materials on s kept in original containers unless they are not re-sealable. should be retained on site at all times. Hazardous materials
and subcontractors that are identified should be required to sign a copy of the certification statement from Part IV.F. of the ILR10 Permit (in accordance with Part VI.G Signatory Requirements, of the ILR10 Permit). All signed certification statements should be maintained in the SWPPP.	of hazardous materials, follow manufacturer or Local and Stat The following good housekeeping practices should be followed
A, Approved State or Local Plans The management practices, controls and other provisions contained in the SWPPP should be at least as protective as the requirements contained in the Illinois Environmental Protection Agency's (IEPA) and the United States According to the requirements contained in the Illinois Environmental Protection Agency's (IEPA) and the United	<ul> <li>An effort should be made to store only enough product required</li> <li>All materials stored on site should be stored in a neat, or</li> </ul>
pepariment of Agriculture's Natural Resource conservation Service Itlinois Urban Manual, 2012. Requirements specified in sediment and erosion control site plans or site permits or storm water management site plans or site permits approved by local officials that are applicable to protecting surface water resources are, upon submittal of a Notice of Intent (NOI) to be authorized to discharge under the ILR10 permit, incorporated by reference and proceeding under the ILR10 permit even if they are not considered by reference and	<ul><li>containers and adequately protected from the environment.</li><li>Products should be kept in their original containers with</li></ul>
LLRID permit. This provision does not apply to provisions of master plans, comprehensive plans, non-enforceable guidelines or technical guidance documents that are not identified in a specific plan or permit that is issued for the construction site.	<ul> <li>Substances should not be mixed with one another unless rea</li> <li>Operations should be observed as necessary to ensure proper on site.</li> </ul>
The soil erosion and sediment control measures for this site should meet the requirements of the following agencies: - Municipality (be specific) - County Agency and/or SWCD (be specific)	<ul> <li>Whenever possible, all of a product should be used up before</li> <li>Manufacturer's recommendations for proper use and disposal</li> </ul>
- IEPA - U.S. Army Corps of Engineers 3. Control Implementation Schedule	J. Management of Portable Sanitary Stations To the extent practicable, portable sanitary stations should
Best Management Practices will be implemented on an as-needed basis to protect water quality. Perimeter controls of the site should be installed prior to soil disturbance (excluding soil disturbance necessary to install the controls), including demolition activities. Perimeter controls, including the silt fence, should be actively maintained until final	be anchored to the ground to prevent from tipping over. Por- impervious surfaces should be placed on top of a secondary of by a control device (e.g., gravel-bag berm). The contractor conditions. Spritary waste should be disposed of in accordan
stabilization of those portions of the site upward of the perimeter control. Stabilized construction entrance(s) and sediment traps should be installed as described in the intended sequence of construction activities. The contractor is responsible for the adequate protection (including sediment control) of existing sewers and sewer structures during construction operations. As necessary, the appropriate sediment control measure should be installed prior to land	Local regulations. K. Spill Prevention and Clean-Up Procedures
Stabilization measures should be initiated where construction activities have temporarily or permanently ceased, in accordance with Local and State requirements, as described below. Once construction activity in an area has permanently ceased, that area should be permanently stabilized. Temporary perimeter controls should be removed	Manufacturer's recommended methods for spill clean-up should be made aware of the procedures and the location of the infor and equipment necessary for spill clean-up should be kept in Equipment and materials should include, but are not limited
after final stabilization of those portions of the site upward of the perimeter control.	goggles, kitty litter, sand, sawdust and plastic and/or meta Discharges of a hazardous substance or oil caused by a spill or Waters of the State) are not authorized by the ILR10 permi
The appropriate soil erosion and sediment controls should be implemented on site and should be modified to reflect the current phase of construction. All temporary sediment and erosion control measures should be repaired or replaced as soon as practicable to maintain NPDES compliance. Permittee or an authorized agent is responsible for inspecting all sediment and erosion control measures at a minimum of every 7 calendar days and within 24 hours, or	occur. Spills should be cleaned up immediately (after discovnot be buried on site or washed into storm sewer drainage in Spills in excess of Federal Reportable Quantities (as establic
one working day, of the end of a 0.5-inch (or greater) rain event. Inless otherwise indicated, all vegetative and structural erosion and sediment control practices should be installed to the Standard Practice. The contractor is responsible for the installation of any additional erosion and sediment control	be reported to the National Response Center by calling (800) Reportable Quantities for materials. Spills of toxic or hazar or Local government agency, as required. When cleaning up a personal protective equipment should be used to minimize init
neasures necessary to minimize erosion and seatmentation as determined by the Engineer or Primary Contact. 1) Stabilization Practices - Areas that will not be paved or covered with non-erosive material should be stabilized using procedures in substantial conformance with the Illinois Urban Manual. This SESC Plan includes site-specific soil erosion and seatment control measures. Additional erosion controls should be implemented as pecessary, as	In addition to the good housekeeping and other management pro the following minimum practices should be followed to reduce
Ine following temporary and permanent stabilization practices, at a minimum, are proposed:	<ul> <li>On-site vehicles should be monitored for leaks and should chance of leakage.</li> <li>Petroleum products should be stored in tightly sealed and</li> </ul>
– permanent seeding – temporary seeding – erosion control blanket – other measures	<ul> <li>Contractors should follow the manufacturer's recommendation Excess materials should be disposed of according to the material and should not be discharged to the storm sewer or waterboard</li> </ul>
Site-specific scheduling of the implementation of these practices is included in the Soil Protection Chart.	L. De-Watering Operations During de-watering/pumping operations, only uncontaminated wa
A record of the dates when major grading activities occur, when construction activities cease on a portion of the site, and when stabilization measures are initiated should be included in the SWPPP. Stabilization of disturbed areas must be initiated within 1 working day of permanent or temporary cessation of earth	in a stabilized sump pit or floated at the surface of the wat operations may be discharged to a stabilized area that consis filter bag, or both. Adequate erosion controls should be use Stabilized conveyance channels should be installed to direct
work in an area. Exceptions to these time frames are specified below. a. Where the initiation of stabilization measures is precluded by snow cover, stabilization measures shall be initiated as soon as practicable.	Additional control measures may be installed at the outlet an M. Off-Site Vehicle Tracking
b. On areas where construction activity has temporarily ceased and will resume after 14 days, a temporary stabilization method can be used. Temporary stabilization techniques and materials shall conform to the SWPPP.	The site should have one or more stabilized construction entr construction entrance(s) should be installed to help reduce a swept as needed to reduce excess sediment, dirt, or stone tro top dressing the stabilized entrance with additional stone ar
2) Structural Practices - Provided below is a description of structural practices that should be implemented, to the degree attainable to divert flows from exposed soils, store flows or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Structural practices should be placed on upland soils to the degree practicable. The installation of the following devices may be subject to Section 404 of the Clean Water Act:	needed. Vehicles hauling erodible material to and from the one of the standard stand
- stabilized construction entrance - silt fence - sediment traps (provide locations and dimensions in plan set)	IT TOPSOLL IS TO DE STOCKPILED AT THE SITE, SELECT A LOCATION interfere with work on site. Topsoil stockpiles should not b designated buffer protecting Waters of the State. During cons should be stabilized or protected with sediment trapping meas fearer, should be algoed provide the attacking the state of the state.
- other measures	completed if the stockpile is to remain undisturbed for longe

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led during the construction process to control the construction operations have been completed. of the Clean Water Act.	0. Dust Control Dust control should be implemented on site as necessary. Repetitive treatment should be applied as needed to accomplish control when temporary dust control measures are used. A water truck should be present on site	ST/ TYI PEI
n the basis of technical guidance contained equirements. The storm water management	(or available) for sprinkling/irrigation to limit the amount of dust leaving the site. Watering should be applied daily (or more frequently) to be effective. Caution should be used not to overwater, as that may cause erosion. If field observations indicate that additional protection from wind erosion (in addition to, or in place of	SEI DOI SEI
	watering) is necessary, alternative dust suppressant controls should be implemented at the discretion and approval of the Engineer and/or Primary Contact. Street cleaning should also be used as necessary to control dust. Paved areas that have soil on them from the construction site should be cleaned as needed, utilizing a street sweeper or bucket-type endloader or scraper at	TEI SEI
red end sections or level spreaders, shall be placed nnel as necessary to provide a non-erosive velocity physical, and biological characteristics and functions conditions, such as the hydroperiod and hydrodynamics	the direction of the Engineer and/or Primary Contact. 3. MAINTENANCE Maintenance of the controls incorporated into this project should be performed as needed to assure their continued	MUI
xcess construction materials, machinery, tools and other	effectiveness. This includes prompt and effective repair and/or replacement of deficient control measures. The following is a description of procedures that should be used to maintain, in good and effective operating condition, erosion and sediment control measures and other protective measures identified in the SESC Plan and Standard Specifications.	
actor. The contractor is responsible to acquire the permit itted. No solid materials, including building materials, zed by a Section 404 permit. All waste materials should be Id be placed in any location other than in the approved ere should be no liquid wastes deposited into dumpsters or	Dust control: When temporary dust control measures are used, repetitive treatment should be applied as needed to accomplish control. Sediment filter bags: Sediment filter bags should be installed on pump outlet hoses that discharge off site or to sensitive on-site areas, and should be placed in an area that allows for the bag to be removed without producing	
es should be replaced as soon as possible and the appropriate tion waste material is not to be buried on site. Waste ulations. pred in labeled, separate receptacles from non-hazardous	a sediment discharge. The bags should be inspected frequently and repaired or replaced as needed. Silt fence: Silt fences should be inspected regularly for undercutting where the fence meets the ground, overtopping, and tears along the length of the fence. Deficiencies should be repaired immediately. Remove accumulated sediments from the fence base when the sediment reaches one-half the fence height. During final stabilization, properly dispose	
or allowed to reach a storm water drainage system or	for areas where silt fence continually fails. Stabilized construction entrance: The stabilized construction entrances should be maintained to prevent tracking of sediment onto public streets. Maintenance includes top dressing with additional stone and removing top layers of stope and rediment. The sediment tracked onto the public right-of-way should be removed immediately.	
n location to identify the washout. To the extent nable distance from a storm water drainage inlet or e curb, if the washout area is adjacent to a paved road. rds should be installed at each washout area.	Temporary sediment traps: Temporary sediment traps should be inspected after each period of significant rainfall. Remove sediment and restore the trap to its original dimensions when the sediment has accumulated to one-half the design depth of the permanent pool. Place the sediment that is removed in a designated disposal area. Check the structure for damage from erosion or piping. After all sediment-producing areas have been permanently stabilized.	
completely contain all liquid and concrete waste materials • The dried concrete waste material should be picked rdened concrete can be properly recycled and f site to an appropriate landfill.	remove the structure and all unstable sediment. Grade the area to blend with the adjoining areas and stabilize properly. 4. INSPECTIONS	
d dispose of saw-cutting slurries. Concrete cutting should Waste generated from oncrete washout facility as described above.	The Permittee (or their authorized representative) will be responsible for conducting site inspections in compliance with the ILR10 NPDES Permit. After each inspection, a report should be prepared by the qualified personnel who performed the inspection. The inspection report should be maintained on site as part of the SWPPP.	
designated area(s) outside of the course, pond, drainage-way or storm drain.	Inspections should be conducted at least once every seven calendar days and within 24 hours or by the end of the following work day, of the end of a storm event that is 0.5 inches or greater, or equivalent snowfall. Inspections may be reduced to once per month when construction activities have ceased due to frozen conditions. Weekly inspections will recommence when construction activities are conducted, or if there is 0.5" or greater rain	
off from the storage area(s) from reaching storm outine maintenance as well as on-site repairs) ration of mechanical fluids (oil, antifreeze, etc.) sorbent pads should be used for all vehicle solvents, or other vehicle fluids. Construction	event, or a discharge due to snowmelt occurs. Each inspection should include the following components: A. Disturbed areas and areas used for the storage of materials that are exposed to precipitation	
: leaks should be repaired immediately or the antifreeze, solvents and other vehicle-related action Agency (USEPA) and IEPA manufacturer instructions. Contractors	should be inspected for evidence of, or the potential for, pollutants entering the drainage system. The erosion and sediment control measures identified in the SWPPP should be observed to ensure that they have been installed and are operating correctly. Where discharge points are accessible, they should be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to the receiving waters. Locations where vehicles enter or exit the site should be	
at minimizes the potential to discharge into mated for material delivery and storage. All	inspected for off-site sediment tracking. All pumping operations and other potential non-storm water discharge sources should also be inspected. B. Based on the results of the inspection, the description of potential pollutant sources identified, and the pollution prevention measures described in the SWPPP should be revised, as appropriate, as	
d or difficult to read. Bermed-off storage areas storm water. MSDS should be available for taminants should be immediately cleaned up and all spills to the Primary Contact, who should notify	of any changes to the SWPPP within 7 calendar days following the inspection. C. A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the SWPPP, and actions taken is generated as with paragraph R, above should be made and retained as	
te, hazardous products should be The original labels and MSDS and all other material on site fications. When disposing	part of the SWPPP for at least three years from the date that permit coverage expires or is terminated. The report shall be signed in accordance with Part VI.G. (Signatory Requirements) of the ILR10 NPDES Permit. D. The Permittee shall notify the appropriate agency field operations section office by e-mail at: end, swooncompaillingis, day, telephone or fax within 24 bours of any incidence of poncompliance for any	
on site during the construction	violation of the storm water pollution prevention plan observed during any inspection conducted or for violation of any condition of this permit. The Permittee should complete and submit within 5 days an "Incidence of Non-Compliance" (ION) report for any violation of the SWPPP observed during an inspection conducted, including those not required by the SWPPP. Submission should be on forms provided by IEPA and include specific information on the cause of non-compliance, actions which were taken to prevent any	
ired to do the job. rderly manner in their appropriate	further causes of non-compliance, and a statement detailing any environmental impact, which may have resulted from the non-compliance. E. All reports of non-compliance shall be signed by a responsible authority as defined in Part VI.G. (Signatory Requirements), of the ILR10 NPDES Permit.	
the original manufacturer's label. ommended by the manufacturer. r use and disposal of materials	F. After the initial contact has been made within the appropriate agency field operations section office, all reports of non-compliance shall be mailed to IEPA at the following address: Illinois Environmental Protection Agency	
e disposing of the container. should be followed.	Division of Water Pollution Control Compliance Assurance Section 1021 North Grand Avenue East Post Office Box 19276 Springfield, Illinois 62794-9276	
be located in an area that does not storm water structures and should	5. NON-STORM WATER DISCHARGES Except for flows from fire fighting activities, possible sources of non-storm water that may be combined with	
able sanitary stations located on tainment device, or be surrounded should not create or allow unsanitary se with applicable State and/or	storm water discharges associated with the proposed activity, are described below: - Fire fighting activities - Fire hydrant flushings	
be available and site personnel should nation and clean-up supplies. Materials	<ul> <li>Water used to wash vehicles where detergents are not used</li> <li>Water used to control dust</li> <li>Potable water sources including uncontaminated waterline flushings</li> <li>Landscape irrigation drainages</li> <li>Routine external building washdown which does not use detergents</li> </ul>	
e.g., a spill of oil into a separate storm sewer	<ul> <li>Pavement wash waters where spills or leaks of foxic or hazardous materials have not occurred (unless spilled materials have been removed) and where detergents have not been used.</li> <li>Uncontaminated air conditioning condensate</li> <li>Springs</li> <li>Irrigation ditches</li> <li>Uncontaminated eround water</li> </ul>	
so control, contain, and remove spills, if they ery) in accordance with MSDS and should ets, drainage-ways, or Waters of the State.	<ul> <li>Foundation or footing drains where flows are not contaminated with process materials such as solvents</li> <li>PROHIBITED NON-STORMWATER DISCHARGES</li> <li>Concrete and wastewater from washout of concrete (unless managed by an appropriate control)</li> </ul>	
24-8802. MSDS often include information on Federal lous materials should be reported to the appropriate State spill, the area should be kept well ventilated and appropriate y from contact with a hazardous substance.	<ul> <li>Drywall compound</li> <li>Wastewater from washout and cleanout of stucco, paint</li> <li>Form release oils</li> <li>Curing compounds and other construction materials</li> <li>Fuels, oils, or other pollutants used in vehicle or equipment operation and maintenance</li> </ul>	
tices discussed in the previous sections of these Notes, the risk of spills: receive regular preventative maintenance to reduce the	<ul> <li>Soaps, solvents, or detergents</li> <li>Toxic or hazardous substances from a spill or other release</li> <li>Any other pollutant that could cause or tend to cause water pollution</li> <li>Pollution prevention measures should be implemented for non-storm water components of the discharge.</li> </ul>	
elearly labeled containers. This for proper use, storage, and disposal of materials. Aufacturer's instructions or State and Local regulations,		
er should be allowed to discharge to protected natural		
in order to limit the amount of sediment intake. Pumping s of an energy dissipating device (e.g., stone), sediment d during de-watering operations as necessary. vater to the desired location as applicable.		
unces in conformance with the Plan details. Stabilized		
ked from the site. Maintenance may include I removing top layers of stone and sediment, as Instruction site should be covered with a tarp.		
so that it will not erode, block drainage, or clocated in the 100-year floodplain or ruction of the project, soil stockpiles ures. Perimeter controls, such as silt		OUTF NAME NUM
than fourteen days.		

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EARTHWORK NOTES	PAVING NOTES	SANITARY SEWER NOTES
1. GENERAL	1. GENERAL A. PAVING WORK INCLUDES FINAL SUBGRADE SHAPING, PREPARATION AND COMPACTION; PLACEMENT OF SUB- BASE OR BASE COURSE MATERIALS; BITUMINOUS BINDER AND/OR SURFACE COURSES; FORMING, FINISHING AND CURING CONCRETE PAVEMENT, CURRS AND WALKS: AND FINAL CLEAN-UP AND ALL BELATED WORK	1. SANITARY SEWER PIPE SHALL BE PVC (POLYVINYL CHLORIDE) PLASTIC PIPE CONFORMING TO ASTM D-3034 WIT PUSH-ON JOINTS CONFORMING TO ASTM D-3212 AND A STANDARD DIMENSION RATIO (SDR) OF 26 EXCEPT WHERE NOTED.
A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE SOIL AND GROUNDWATER CONDITIONS AT THE SITE. THE CONTRACTOR SHALL OBTAIN AND READ THE GEOTECHNICAL REPORTS AVAILABLE FROM THE OWNER.	B. COMPACTION REQUIREMENTS: SUB-GRADE = 93%; SUB-BASE = 93%; AGGREGATE BASE COURSE = 95%; BITUMINOUS COURSES = 95% OF MAXIMUM DENSITY PER (SSHSC).	2. SANITARY SEWER PIPE 18" AND LARGER, WHERE NOTED ON THE PLANS, OR WHERE THE STANDARD SPECIFICATIO FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN (SSSWCW) MINIMUM SEPARATION CANNOT BE MAINTAINED, SHALL BE ONE OF THE FOLLOWING: PLAN CODE
B. ANY QUANITIES IN THE BID PROPOSAL ARE INTENDED AS A GUIDE FOR THE CONTRACTORS USE IN DETERMINING THE SCOPE OF THE COMPLETED PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALL MATERIAL QUANTITIES AND APPRAISE HIMSELF OF ALL SITE CONDITIONS. THE CONTRACT PRICE SUBMITTED BY THE CONTRACTOR SHALL BE CONSIDERED AS LUMP SUM FOR THE COMPLETE PROJECT. NO CLAIMS FOR EXTRA WORK WILL BE RECOGNIZED UNLESS ORDERED IN WRITING BY THE OWNER.	C. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE PROPER BARRICADING, WARNING DEVICES AND THE SAFE MANAGEMENT OF TRAFFIC WITHIN THE AREA OF CONSTRUCTION. ALL SUCH DEVICES AND THEIR INSTALLATION SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES(MUTCD, LATEST EDITION AND IN ACCORDANCE WITH THE MUNICIPAL CODE.	DIP: DUCTILE IRON WATERMAIN QUALITY PIPE, CLASS 52, (ANSI 21.51) WITH MECHANICAL OR RING GASKETED JOINTS (ANSI 21.11). PRESSURE RATED PVC PIPE MEETING ASTM D-2241 WITH ASTM D-3139 GASKETED JOINT, SD 26.
C. THE CONTRACTOR WILL NOTE THAT THE ELEVATIONS SHOWN ON THE CONSTRUCTION PLANS ARE FINISHED GRADE ELEVATIONS AND THAT PAVEMENT THICKNESS, TOPSOIL, ETC. MUST BE SUBTRACTED TO DETERMINE SUBGRADE ELEVATIONS.	2. SUB-GRADE PREPARATION A. EARTHWORK FOR PROPOSED PAVEMENT SUBGRADE SHALL BE FINISHED TO WITHIN 0.1 FOOT, PLUS OR MINUS, OF PLAN ELEVATION. THE CONTRACTOR SHALL SATISFY HIMSELF THAT THE SUBGRADE HAS BEEN	<ul> <li>3. "BAND-SEAL" OR SIMILAR FLEXIBLE TYPE COUPLINGS SHALL BE USED WHEN CONNECTING SEWER PIPES OF DISSIMILAR MATERIALS.</li> <li>4. BEDDING: BEDDING SHALL CONSIST OF A MINIMUM OF FOUR (4") INCHES OF COMPACTED CRUSHED GRAVEL OR</li> </ul>
D. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE DURING CONSTRUCTION, AND PREVENT STORMWATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS. THE FAILURE TO PROVIDE PROPER DRAINAGE WILL NEGATE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF. FINAL GRADES SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION, SEDIMENTATION AND TRAFFIC.	PROPERLY PREPARED AND THAT THE FINISH TOP SUBGRADE ELEVATION HAS BEEN GRADED WITHIN TOLERANCES ALLOWED IN THESE SPECIFICATIONS. UNLESS THE CONTRACTOR ADVISES THE OWNER AND ENGINEER IN WRITING PRIOR TO FINE GRADING FOR BASE COURSE CONSTRUCTION, IT IS UNDERSTOOD THAT HE HAS APPROVED AND ACCEPTS THE RESPONSIBILITY FOR THE SUBGRADE.	STONE, $V_4'' - 1''$ IN SIZE. THE SEWER SHALL HAVE MECHANICALLY TAMPED CRUSHED GRAVEL OR STONE COVER ABOVE THE TOP OF THE PIPE TO A MINIMUM OF TWELVE (12") INCHES FOR PVC PIPE AND TO THE SPRING LIN FOR DIP. THE BEDDING AND COVER MATERIAL SHALL BE ASTM D-2321 CLASS II FOR PVC PIPE AND ASTM D SIZE 67 FOR DIP. THE COST OF THE BEDDING AND COVER SHALL BE MERGED WITH THE UNIT PRICE BID FOR SEWER.
E. PLANS FOR THE SITE DEWATERING, IF EMPLOYED, SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER PRIOR TO IMPLEMENTATION. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR DEWATERING DURING CONSTRUCTION.	FOR UNSUITABLE MATERIALS AND/OR EXCESSIVE MOVEMENT. IF UNSUITABLE SUBGRADE IS ENCOUNTERED, IT SHALL BE CORRECTED IN A MANNER APPROVED BY THE OWNER OR HIS REPRESENTATIVE. THIS MAY INCLUDE ONE OR MORE OF THE FOLLOWING METHODS:	5. ALL UNSUITABLE MATERIAL SHALL BE REMOVED BELOW THE PROPOSED SANITARY SEWER AND REPLACED WITH COMPACTED CA-6 CRUSHED GRAVEL OR STONE.
F. 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 MASS GRADING BEGINS.	<ol> <li>SCARIFY DISC AND AERATE.</li> <li>REMOVE AND REPLACE WITH STRUCTURAL CLAY FILL.</li> <li>REMOVE AND REPLACE WITH GRANULAR MATERIAL.</li> <li>USE OF GEOTEXTILE FABRIC.</li> </ol>	DISTANCE OF FIVE (5') FEET ON EITHER SIDE OF SAME, AND/OR WHERE SHOWN ON THE PLANS, SHALL BE BACKFILLED WITH SELECT GRANULAR BACKFILL OR SELECT ONSITE MATERIAL AND THOROUGHLY MECHANICALLY COMPACTED IN 9" THICK (LOOSE MEASUREMENT) LAYERS. JETTING WITH WATER IS NOT PERMITTED. 7. ALL SANITARY SEWERS ARE TO BE CONSTRUCTED USING A LASER INSTRUMENT TO MAINTAIN LINE AND GRADE.
G. PRIOR TO COMMENCEMENT OF GRADING ACTIVITIES, THE CONTRACTOR SHALL ERECT A "SNOW 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 (EXTENT OF FURTHEST EXTENDING BRANCHES) SHALL BE WITHIN THE FENCE LIMITS. THE EXISTING GRADE WITHIN THE FENCED AREA SHALL NOT BE DISTURBED.	<ul> <li>MAXIMUM DEFLECTION ALLOWED IN ISOLATED AREAS MAY BE<sup>1</sup>/<sub>4</sub>" TO<sup>1</sup>/<sub>2</sub>" IF NO DEFLECTION OCCURS OVER THE MAJORITY OF THE AREA.</li> <li>C. PRIOR TO THE CONSTRUCTION OF THE CURB AND GUTTER AND THE PLACEMENT OF THE BASE MATERIAL, THE PAVEMENT AREA SHALL BE FINE GRADED TO WITHIN 0.04 FEET (1/2") OF FINAL SUBGRADE ELEVATION, TO A DOWN TWO OF OVER TWO ADDITION OF THE DEPONDENT OF ADDITION OF THE DEPONDENT.</li> </ul>	<ul> <li>8. ALL FLOOR DRAINS SHALL CONNECT TO THE SANITARY SEWER.</li> <li>9. CONNECTIONS TO EXISTING SANITARY SEWER SYSTEM SHALL NOT BE DONE UNTIL AUTHORIZED BY THE MUNICIPALITY.</li> </ul>
H. EXCESS MATERIALS, IF NOT UTILIZED AS FILL SHALL BE COMPLETELY REMOVED FROM THE CONSTRUCTION SITE AND DISPOSED OF OFF-SITE BY THE CONTRACTOR.	DUINT TWO (2) FEET BEYOND THE BACK OF CURB, SU AS TO INSURE THE PROPER THICKNESS OF PAVEMENT COURSES. NO CLAIMS FOR EXCESS QUANTITY OF BASE MATERIALS DUE TO IMPROPER SUBGRADE PREPARATION WILL BE HONORED. D. PRIOR TO PLACEMENT OF THE BASE COURSE, THE SUBGRADE MUST BE APPROVED BY THE MUNICIPAL	10.WATERMAINS SHALL BE SEPARATED FROM SANITARY SEWERS AND STORM SEWERS IN ACCORDANCE WITH SSSWCW REQUIREMENTS AS SPECIFIED IN "WATER MAIN" SECTION. 11.NO WATER LINE SHALL BE PLACED IN THE SAME TRENCH AS A SEWER LINE EXCEPT UNDER SPECIAL
2. TOFSOIL EXCAVATION INCLUDES: A. EXCAVATION OF TOPSOIL AND OTHER STRUCTURALLY UNSUITABLE MATERIALS WITHIN THOSE AREAS THAT WILL REQUIRE EARTH EXCAVATION OR COMPACTED EARTH FILL MATERIAL. EXISTING VEGETATION SHALL BE REMOVED PRIOR TO STRIPPING TOPSOIL OR FILLING AREAS.	ENGINEER AND/OR OWNER. 3. CONCRETE WORK	CIRCUMSTANCES AND THEN ONLY UNDER THE FOLLOWING RULES: A. PERMISSION SHALL BE OBTAINED FROM THE MUNICIPAL ENGINEERING DEPARTMENT IN WRITING PRIOR TO BEGINNING CONSTRUCTION.
B. PLACEMENT OF THE EXCAVATED MATERIAL IN OWNER DESIGNATED AREAS FOR FUTURE USE WITHIN AREAS TO BE LANDSCAPED, AND THOSE AREAS NOT REQUIRING STRUCTURAL FILL MATERIAL. PROVIDE NECESSARY EROSION CONTROL MEASURES FOR STOCKPILE.	A. ALL EXTERIOR CONCRETE SHALL BE PORTLAND CEMENT CONCRETE CLASS "X" PER (SSHSC) WITH AIR ENTRAINMENT OF NOT LESS THAN FIVE (5%) OR MORE THAN EIGHT (8%) PERCENT. CONCRETE SHALL BE A MINIMUM OF SIX (6) BAG MIX AND SHALL DEVELOP A MINIMUM OF 4,000 PSI COMPRESSIVE STRENGTH OF FOURTEEN (14) DAYS. ALL CONCRETE SHALL BE BROOM FINISHED PERPENDICULAR TO THE DIRECTION OF TRAVEL	<ul> <li>B. THE BOTTOM OF A WATER LINE SHALL BE INSTALLED ON A SHELF A MINIMUM OF 18" ABOVE THE TOP OF THE SEWER AND 18" HORIZONTALLY AWAY FROM THE EDGE OF THE SEWER.</li> <li>12. MANHOLES: SANITARY SEWER MANHOLES SHALL BE 4'-0" LD. PRECAST CONCRETE SECTIONS CONFORMING TO</li> </ul>
C. TOPSOIL STOCKPILED FOR RESPREAD SHALL BE FREE OF CLAY AND SHALL NOT CONTAIN ANY OF THE TRANSITIONAL MATERIAL BETWEEN THE TOPSOIL AND CLAY. THE TRANSITIONAL MATERIAL SHALL BE USED IN NON-STRUCTURAL FILL AREAS OR DISPOSED OF OFF-SITE.	B. CONCRETE CURB AND/OR COMBINATION CURB AND GUTTER SHALL BE OF THE TYPE SHOWN ON THE PLANS. THE CONTRACTOR IS CAUTIONED TO REFER TO THE CONSTRUCTION STANDARDS AND THE PAVEMENT CROSS- SECTION TO DETERMINE THE GUTTER FLAG THICKNESS AND THE AGGREGATE BASE COURSE THICKNESS	ASTM D-478 WITH PREFORMED BITUMINOUS OR "O" RING JOINTS, IN ACCORDANCE WITH MUNICIPAL REGULATIONS, AND HAVE AN ECCENTRIC CONE INSTALLED TO LINE UP WITH THE MANHOLE STEPS. ALL MANHOLE STEPS SHALL BE AT 16" O.C. SIMILAR TO NEENAH R-1980.
<ul> <li>D. TOPSOIL RESPREAD SHALL INCLUDE HAULING AND SPREADING 6" OF TOPSOIL OVER AREAS TO BE LANDSCAPED WHERE SHOWN ON THE PLANS OR DIRECTED BY THE OWNER.</li> <li>E. MODERATE COMPACTION IS REQUIRED IN NON-STRUCTURAL FILL AREAS.</li> </ul>	BENEATH THE CURB AND GUTTER. ALTERNATE ENDS OF THE DOWEL BARS SHALL BE GREASED AND FITTED WITH METAL EXPANSION TUBES. C. CURBS SHALL BE DEPRESSED AT LOCATIONS WHERE PUBLIC WALKS/PEDESTRIAN PATHS INTERSECT CURB	ALL PIPE CONNECTION OPENINGS SHALL BE PRECAST WITH RESILIENT RUBBER WATER TIGHT SLEEVES. THE BOTTOM OF MANHOLE SHALL HAVE A CONCRETE BENCH POURED TO FACILITATE SMOOTH FLOWS. 13. FRAMES AND LIDS: ALL SANITARY SEWER MANHOLE FRAMES AND LIDS SHALL BE NEENAH R-1712 UNLESS OTHERWISE NOTED ON THE PLANS. THE LIDS SHALL HAVE DECESSED (CONCEALED) DICK HOLE AND BE SELE
3. EARTH EXCAVATION INCLUDES: A. EXCAVATION OF CLAY AND OTHER MATERIALS WHICH ARE SUITABLE FOR USE AS STRUCTURAL FILL. THE	D. THE CURBES SHALL BE BACKETILED AFTER THEIR CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE BASE	SEALING WITH AN "O" RING GASKET. THE LIDS SHALL HAVE RECESSED (CONCEALED) FICK HOLE AND BE SELF SEALING WITH AN "O" RING GASKET. THE LIDS SHALL HAVE THE WORDS "SANITARY" EMBOSSED ON THE SUF THE JOINTS BETWEEN FRAME AND CONCRETE SECTION SHALL BE SEALED WITH A BUTYL ROPE. 14. A MAXIMUM OF FIGHT (8) INCHES OF CONCRETE ADJUSTING RINGS SHALL BE USED TO ADJUST FRAME
EXCAVATION SHALL BE TO WITHIN A TOLERANCE OF 0.1 FEET + OF THE PLAN SUBGRADE ELEVATIONS WHILE MAINTAINING PROPER DRAINAGE. THE + TOLERANCE WITHIN PAVEMENT AREAS SHALL BE SUCH THAT THE EARTH MATERIALS SHALL "BALANCE" DURING THE FINE GRADING OPERATION. B. PLACEMENT OF THE CLAY AND OTHER SUITABLE MATERIALS SHALL BE WITHIN THOSE AREAS REQUIRING	<ul> <li>COURSE.</li> <li>E. CONCRETE SIDEWALK SHALL BE IN ACCORDANCE WITH THE ABOVE AND THE PLANS. PROVIDE SCORED JOINTS AT 5 FOOT INTERVALS AND<sup>1</sup>/<sub>2</sub>" PREMOLDED FIBER EXPANSION JOINTS AT 50 FOOT INTERVALS, AND AD LOCENT TO CONCRETE CURPS. PRIVEWAXS, ECHNIDATIONS, ETC.</li> </ul>	ELEVATIONS. RINGS SHALL BE SEALED TOGETHER WITH BUTYL ROPE. 15. DROP MANHOLE ASSEMBLIES: DROP MANHOLE ASSEMBLIES SHALL BE PROVIDED AT THE JUNCTION OF SANITAR' SEWERS WHERE THE DIFFERENCE IN INVERT GRADES EXCEEDS TWO FEET (2'), OR AS SHOWN ON THE PLANS. ENTIPE DROP ASSEMBLY SHALL BE CAST IN CONCRETE MONOLITHICALLY WITH THE MANHOLE BAPPEL SECTION
STRUCTURAL FILL IN ORDER TO ACHIEVE THE PLAN SUBGRADE ELEVATIONS TO WITHIN A TOLERANCE OF 0.1 FEET +. THE FILL MATERIAL 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.	F. CONCRETE DRIVEWAY APRONS SHALL BE IN ACCORDANCE WITH THE ABOVE AND THE PLANS. PROVIDE 12" X 12" W2.9/W2.9 WELDED WIRE MESH IN DRIVEWAYS. PROVIDE34" PREMOLDED FIBER EXPANSION JOINT ADJACENT TO CURBS AND CONCRETE SIDEWALKS. PROVIDE SAWED OR FORMED CONTRACTION JOINT AT MID-POINT AND 13	16. CLEANING: ALL MANHOLES AND PIPES SHALL BE THOROUGHLY CLEANED OF DIRT AND DEBRIS, AND ALL VISI LEAKAGE ELIMINATED, BEFORE FINAL INSPECTION AND ACCEPTANCE.
STRUCTURAL FILL MATERIAL MAT BE PLACED WITHIN THOSE PORTIONS OF THE SITE NOT REQUIRING STRUCTURAL FILL, TO WITHIN SIX (6) INCHES OF THE PLAN FINISHED GRADE ELEVATION. IN AREAS REQUIRING STRUCTURAL FILL, HOWEVER, THIS MATERIAL SHALL NOT BE PLACED OVER TOPSOIL OR OTHER UNSUITABLE MATERIALS UNLESS SPECIFICALLY DIRECTED BY A SOILS ENGINEER WITH THE CONCURRENCE OF THE OWNER.	FOOT MAXIMUM. G STANDARD REINFORCED CONCRETE PAVEMENT SHALL BE IN ACCORDANCE WITH THE ABOVE AND THE PLANS. SAWED OR FORMED CONTRACTION EXPANSION JOINTS SHALL BE AS SHOWN ON THE PLANS.	17. TESTING: DEFLECTION AND LEAKAGE TESTING WILL BE REQUIRED. THE PROCEDURE AND ALLOWABLE TESTING LIMITS SHALL BE AS SPECIFIED IN THE "STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION WISCONSIN", OR MUNICIPAL CODES.
C. COMPACTION OF THE CLAY AND OTHER 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.	<ul> <li>H. CONCRETE CURING AND PROTECTION SHALL BE IN ACCORDANCE WITH (SSHSC). TWO</li> <li>(2) COATS OF BOILED LINSEED OIL IN CONFORMANCE WITH (SSHSC) SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES.</li> </ul>	<ul> <li>18. TESTING THE ALIGNMENT/STRAIGHTNESS SHALL BE IN ACCORDANCE WITH MUNICIPAL CODE.</li> <li>19. TELEVISING: ALL SANITARY SEWERS SHALL BE TELEVISED AND A COPY OF THE TAPE AND A WRITTEN REPORT SHALL BE SUBMITTED AND REVIEWED BY THE OWNER OR MUNICIPALITY BEFORE FINAL ACCEPTANCE. THE DEPORT SHALL INCLUDE STUDY OF ALL DEFERTS WATER LEAK</li> </ul>
4. UNSUITABLE MATERIAL UNSUITABLE MATERIAL SHALL BE CONSIDERED AS MATERIAL WHICH IS NOT SUITABLE FOR THE SUPPORT OF PAVEMENT AND BUILDING CONSTRUCTION, AND IS ENCOUNTERED BELOW NORMAL TOPSOIL DEPTHS AND THE PROPOSED SUBCRADE ELEVATION. THE DECISION TO REMOVE SAID MATERIAL AND TO WHAT FYICKT SHALL BE	<ul> <li>THE COST OF AGGREGATE BASE ON SOB-BASE UNDER CONCRETE WORK SHALL BE INCLUDED IN THE COST OF THE RESPECTIVE CONCRETE ITEM.</li> <li>FLEXIBLE PAVEMENT</li> </ul>	LENGTHS. IDENTIFY MANHOLE TO MANHOLE BOTH VERBALLY AND ON-SCREEN USING MANHOLE NUMBERS FROM APPROVED PLANS. ORDER OF WRITTEN REPORT SHALL BE THE SAME AS THE VIDEO TAPES. 20. TEST RESULTS: IF THE SANITARY SEWER INSTALLATION FAILS TO MEET THE TEST REQUIREMENTS SPECIFI
MADE BY A SOILS ENGINEER WITH THE CONCURRENCE OF THE OWNER. 5. MISCELLANEOUS, THE CONTRACTOR SHALL:	A. THE PAVEMENT MATERIALS FOR BITUMINOUS STREETS, PARKING LOTS, DRIVEWAYS, SIDEWALKS AND BIKE PATHS SHALL BE AS DETAILED ON THE PLANS, UNLESS OTHERWISE SHOWN ON THE PLANS, THE FLEXIBLE PAVEMENTS SHALL CONSIST OF AGGREGATE BASE COURSE, TYPE B, (OR BAM IF SELECTED BY THE OWNER); BITUMINOUS CONCRETE BINDER COURSE, MIXTURE B; AND BITUMINOUS CONCRETE SURFACE COURSE, CLASS 1. MIXTURE D, TYPE 2: OF THE THICKNESS AND MATERIALS SPECIFIED ON THE PLANS, THICKNESSES SPECIFIED	CUNIRACION SHALL DETERMINE THE CAUSE OF CAUSES OF THE DEFECT AND SHALL, AT HIS OWN EXPENSE REPAIR, OR REPLACE ALL MATERIALS, AND WORKMANSHIP AS MAY BE NECESSARY TO COMPLY WITH THE TEST REQUIREMENTS. 21. CERTIFICATION: CONTRACTOR SHALL SUBMIT CERTIFIED COPIES OF ALL REPORTS OF TESTS CONDUCTED BY
<ul> <li>A. SPREAD AND COMPACT UNIFORMLY TO THE DEGREE SPECIFIED ALL EXCESS TRENCH SPOIL AFTER COMPLETION OF THE UNDERGROUND IMPROVEMENTS.</li> <li>B. SCARIFY, DISC, AERATE, AND COMPACT, TO THE DEGREE SPECIFIED, THE UPPER TWELVE (12) INCHES OF THE SUITABLE SUBGRADE MATERIAL, IN ALL AREAS THAT MAY BE SOFT DUE TO EXCESS MOISTURE CONTENT. THIS</li> </ul>	SHALL BE CONSIDERED TO BE THE MINIMUM COMPACTED THICKNESS. B. 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 MINIMUM RATE OF 0.3 GALLONS PER SOURCE YARD BRIDE TO PLACING THE DUNER COURSE OF THE COATE AT A MINIMUM RATE OF 0.3 GALLONS PER	INDEPENDENT LABORATORY BEFORE INSTALLATION OF PVC PLASTIC PIPE. TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH STANDARD METHOD OF TEST FOR "EXTERNAL LOADING PROPERTIES OF PLASTIC PIPE BY PARALLEL PLATE LOADING", ASTM STANDARDS D-2412 OR D-2241 AS APPROPRIATE FOR THE PIPE TO BE USI TESTS SHALL ALSO BE CONDUCTED TO DEMONSTRATE JOINT PERFORMANCE AT 5% MAXIMUM DIAMETRIC DEFLECTION OF THE SPICET
APPLIES TO CUT AREAS AS WELL AS FILL AREAS. C. PROVIDE WATER TO ADD TO DRY MATERIAL IN ORDER TO ADJUST THE MOISTURE CONTENT FOR THE PURPOSE OF ACHIEVING THE SPECIFIED COMPACTION.	- 30. C. 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 REPAIRED TO	22. RECORD DRAWINGS: THE CONTRACTOR SHALL PROVIDE ALL INFORMATION TO PREPARE RECORD DRAWING(S) INCLUDING SERVICE STUB LOCATIONS, TO SPACECO. SPACECO SHALL PREPARE RECORD DRAWINGS AND SUBM TO APPROPRIATE PUBLIC AGENCIES. IF FINAL MEASUREMENTS INDICATE DEFICIENCIES, THE CONTRACTOR,
<ul> <li>D. BACKFILL THE CURB AND GUTTER AFTER ITS CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE BASE COURSE MATERIAL.</li> <li>6. TESTING AND FINAL ACCEPTANCE</li> </ul>	THE SATISFACTION OF THE OWNER PRIOR TO LAYING THE SURFACE COURSE. THE CONTRACTOR SHALL PROVIDE WHATEVER EQUIPMENT AND MANPOWER 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 OF 0.05 TO 0.10 GALLONS PER	HIS OWN COST, WILL ADJUST MANHOLES AND/OR SEWERS TO PROPER ELEVATIONS AND OTHERWISE CORRECT THE DEFICIENCIES.
A. THE CONTRACTOR SHALL PROVIDE AS A MINIMUM, A FULLY LOADED SIX-WHEEL TANDEM AXLE TRUCK FOR PROOF ROLLING THE PAVEMENT SUBGRADE PRIOR TO THE PLACEMENT OF THE CURB AND GUTTER AND THE BASE MATERIAL. THIS SHALL BE WITNESSED BY MUNICIPAL ENGINEER AND THE OWNER. SEE PAVING SPECIFICATION.	SQUARE YARD. TACK COAT SHALL BE AS SPECIFIED IN (SSHSC). D. SEAMS IN BAM, BINDER AND SURFACE COURSE SHALL BE STAGGERED A MINIMUM OF 6". E. FOR NEW STREETS, THE CONTRACTOR SHALL PERMIT THE BITUMINOUS CONCRETE BINDER COURSE TO	STORM SEWER NOTES
B. ANY UNSUITABLE AREA ENCOUNTERED AS A RESULT OF PROOF ROLLING SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL, OR OTHERWISE CORRECTED, APPROVED BY THE SOILS CONSULTANT.	COURSE UNLESS OTHERWISE SPECIFIED BY THE MUNICIPAL ENGINEER OR OWNER. 5. TESTING AND FINAL ACCEPTANCE	1. STORM SEWER PIPE: ALL STORM SEWER PIPE SHALL BE RCP, UNLESS OTHERWISE NOTED ON THE PLANS, IN ACCORDANCE WITH THE FOLLOWING: PLAN CODE MATERIAL
	<ul> <li>A. THE CONTRACTOR SHALL FOLLOW THE QUALITY CONTROL TESTING PROGRAM FOR CONCRETE AND PAVEMENT MATERIALS ESTABLISHED BY THE OWNER AND/OR MUNICIPALITY.</li> <li>B. WHEN REQUESTED BY THE OWNER, TEST RESULTS AND DOCUMENTATION FOR THE CONCRETE, BASE COURSE,</li> </ul>	RCP: REINFORCED CONCRETE PIPE (ASTM C-76) WITH O-RING GASKETED JOINTS (ASTM C-443); TYPI CLASS IV PER SSSWCW. ELLIPTICAL RCCP PIPE SHALL BE TYPE 1, HE-III PER SSSWCW PRECAST FLARED END SECTIONS MAY HAVE MASTIC JOINTS. HDPE: HIGH DENSITY POLYETHYLENE CORRUGATED PIPE WITH SMOOTH INTERIOR MEETING AASHTO M-294
SIGNING AND PAVEMENT MARKING	BITUMINOUS CONCRETE BINDER, AND/OR SURFACE COURSE, SHALL BE SUBMITTED FOR VERIFICATION. C. PRIOR TO PLACEMENT OF THE BITUMINOUS CONCRETE SURFACE COURSE, THE CONTRACTOR, WHEN REQUIRED BY THE OWNER OR MUNICIPALITY, SHALL OBTAIN SPECIMENS OF THE BINDER COURSE WITH A CODE DELLA WHERE DIDECTED, FOR THE PURPOSE OF THICKNESS VERIFICATION.	SUCH AS ADS N-12 BY ADVANCED DRAINAGE SYSTEM, COLUMBUS, OH: OR HI-Q BY HANCOR, FINDLEY OH. JOINTS SHALL BE SPLIT CORRUGATED BANDS BY THE PIPE MANUFACTURER. DIP: DUCTILE IRON WATERMAIN QUALITY PIPE (ANSI 21.51) WITH MECHANICAL OR PUSH-ON JOINTS (AN 21.110. CEMENT LINING IS NOT REQUIRED.
1 ALL STONTING AND DAVEMENT MADE IN A COODDANCE WITH THE MANUAL OF UNITODA	D. WHEN REQUIRED BY THE OWNER OR MUNICIPALITY, THE CONTRACTOR SHALL OBTAIN SPECIMENS OF THE FULL DEPTH BITUMINOUS CONCRETE PAVEMENT STRUCTURE WITH A CORE DRILL WHERE DIRECTED, IN ORDER TO CONFIRM THE PLAN THICKNESS. DEFICIENCIES IN THICKNESS SHALL BE ADJUSTED FOR BY THE METHOD	UD: RIGID, PERFORATED PVC UNDERDRAIN PIPE, SDR 26, CONFORMING TO ASIM D-3034 WITH ASIM D-3212 POSH UD: RIGID, PERFORATED PVC UNDERDRAIN PIPE (ASIM D-2729), SDR 35, OR SCHEDULE 40, WITH SOLVENT WELD JOINTS AND FILTER FABRIC WRAPPING OR SOCK. PERFORATED HDPE PIPE ALSO ACCEPTABLE.
TRAFFIC CONTROL DEVICES (MUTCD), THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION (SSHSC, Wisdot), CITY OF JANESVILLE, MUNICIPAL CODE AND THESE PLANS. 2. CONTRACTOR SHALL ESTABLISH LOCATION OF ALL SIGNS AND MARKINGS FOR APPROVAL BY THE OWNER PRIOR	DESCRIBED IN (SSHSC). E. FINAL ACCEPTANCE OF THE TOTAL PAVEMENT INSTALLATION SHALL BE SUBJECT TO THE TESTING AND CHECKING REQUIREMENTS CITED ABOVE.	2. "BAND SEAL" OR SIMILAR COUPLINGS SHALL BE USED WHEN JOINING SEWER PIPES OF DISSIMILAR MATERIAL 3. (RESERVED)
TO INSTALLATION. 3. 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 MUTCD AND AS SHOWN ON THE PLANS.	VENTURE DRIVE PAVING NOTES (CITY OF JANESVILLE) PAVING OF VENTURE DRIVE SHALL CONFORM TO THE "CITY OF JANESVILLE- PUBLIC	4. BEDDING: ALL STORM SEWERS SHALL BE INSTALLED ON A TYPE A GRANULAR BEDDING, <sup>1</sup> ⁄ <sub>4</sub> " TO <sup>3</sup> ⁄ <sub>4</sub> " IN SIZE (C 13) WITH A MINIMUM THICKNESS EQUAL TO <sup>1</sup> ⁄ <sub>4</sub> THE OUTSIDE DIAMETER OF THE SEWER PIPE BUT NOT LESS THA 4". BLOCKING OF ANY KIND FOR GRADE IS NOT PERMITTED. THE BEDDING MATERIALS SHALL BE COMPACTE ADDITION OF ANY KIND FOR GRADE IS NOT PERMITTED. THE BEDDING MATERIALS SHALL BE COMPACTE ADDITION OF ANY KIND FOR GRADE IS NOT PERMITTED. THE BEDDING MATERIALS SHALL BE COMPACTE ADDITION OF ANY KIND FOR GRADE IS NOT PERMITTED. THE BEDDING MATERIALS SHALL BE COMPACTE ADDITION OF ANY KIND FOR GRADE IS NOT PERMITTED. THE BEDDING MATERIALS SHALL BE COMPACTE ADDITION OF ANY KIND FOR GRADE IS NOT PERMITTED. THE BEDDING MATERIALS SHALL BE COMPACTE ADDITION OF ANY KIND FOR GRADE IS NOT PERMITTED.
<pre>4. POSTS: SIGN POSTS SHALL BE A HEAVY DUTY STEEL "U" SHAPED CHANNEL WEIGHING 3.0 POUNDS/FOOT SUCH AS A TYPE B METAL POST.</pre>	WORKS PROGRAM#1 2000, CONTRACT C- PAVING ADDENDUM #1" SPECIFICATIONS PAVING SPECIFICATIONS SHALL FOLLOW THE MOST CURRENT VERSION OF SECTION 407 ASPHALTIC CONCRETE PAVEMENT OF THE WDOT STANDARD SPECIFICATIONS	5. CONSTRUCTION: ALL STORM SEWERS ARE TO BE CONSTRUCTED USING A LASER INSTRUMENT TO MAINTAIN LII AND GRADE.
6. PAVEMENT MARKINGS: ALL PAVEMENT MARKINGS IN THE ROADWAY LIMITS, SUCH AS STOP LINES, CENTERLINES, CROSSWALKS AND DIRECTIONAL ARROWS SHALL BE REFLECTORIZED THERMOPLASTIC PER (SSHSC), EXCEPT AS MODIFIED BY THE PLANS.	WITH THE FOLLOWING MUDIFICATIONS: DELETE SECTIONS 407.2.3, 407.2.5,407.3,407.4 AND 407.5 SUBSECTION 407.1 SHALL INCLUDE THE FOLLOWING MODIFICATION	6. COVER: THE CONTRACTOR SHALL MAINTAIN AT LEAST THREE (3') FEET OF COVER OVER THE TOP OF SHALL PIPES AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL MOUND OVER ANY PIPES WHICH HAVE LESS THAN THREE (3') FEET OF COVER DURING CONSTRUCTION UNTIL THE AREA IS FINAL GRADED OR PAVED
7. PAVEMENT MARKINGS ON BIKE PATHS, PARKING LOT STALLS, AND SIMILAR "LOW WEAR" APPLICATION, SHALL BE PAINT IN ACCORDANCE TO (SSHSC), EXCEPT AS MODIFIED BY THE PLANS. REFLECTIVE BEADS ARE NOT REQUIRED.	3 LOWER AND UPPER LAYERS. PERFORMANCE GRADED ASPHALT TYPE PG58-28 SHALL BE USED. NOMINAL SIZE AGGREGATE IN LOWER LAYER PAVEMENTS SHALL BE <sup>3</sup> / <sub>4</sub> INCH (19.0 mm) AND <sup>1</sup> / <sub>2</sub> INCH (12.5mm) FOR UPPER LAYER PAVEMENTS.	(. SIRUCTURES: MANHOLE, CATCH BASIN AND INLET BOTTOMS SHALL BE PRECAST CONCRETE SECTIONAL UNITS MONOLITHIC CONCRETE. MANHOLES AND CATCH BASINS SHALL BE 4' IN DIAMETER UNLESS OTHERWISE SPECT ON THE PLANS. STRUCTURE JOINTS SHALL BE SEALED WITH O-RING OR BUTYL ROPE. A MAXIMUM OF EIGHT INCHES OF ADJUSTING RINGS SHALL BE USED. A CONCRETE BENCH TO DIDECT FLOWS SHALL BE CONSTRUCTED IN THE ROTTOM OF ALL INFERT. AND
<ul> <li>8. COLOR, WIDTH, STYLE, AND SIZE OF ALL MARKINGS SHALL BE IN ACCORDANCE WITH (MUTCD) EXCEPT AS MODIFIED BY THE PLANS.</li> <li>9. THERMOPLASTIC MARKINGS SHALL BE INSTALLED WHEN THE PAVEMENT TEMPERATURE IS 55 E</li> </ul>	FINE AGGREGATE ANGULARITY FOR PAVEMENT TYPE E-3 SHALL BE 45. FRACTURED FACES FOR PAVEMENT TYPE E-3 SHALL BE 90/60 (ONE FACE/TWO FACE BY COUNT)	THE FRAME, GRATE, AND/OR CLOSED LID SHALL BE CONSTRUCTED IN THE BUTTUM OF ALL INLETS AND . THE FRAME, GRATE, AND/OR CLOSED LID SHALL BE CAST IRON OF THE STYLE SHOWN ON THE PLANS. MANHOLE LIDS SHALL BE MACHINE SURFACED, NON-ROCKING DESIGN. THE CLOSED LIDS SHALL HAVE THE WO "STORM" CAST ON THE LID. THE JOINTS BETWEEN CONCRETE SECTION ADJUSTING RINGS, AND FRAME SHALL SEALED WITH A MASTIC COMPOUND.
AND RISING, PAINT MARKINGS MAY BE INSTALLED WHEN THE AIR TEMPERATURE IS 50 F AND RISING.	PERCENT PASSING THE #200 SIEVE SHALL BE 3%-7% FOR ALL PAVEMENT TYPES USED SPECIFICATIONS FOR CONSTRUCTING LIMESTONE BASE COURSES SHALL CONFORM TO SECTION E- STREET CONSTRUCTION OF THE "CITY OF JANESVILLE PUBLIC WORKS	8. CLEANING: THE STORM SEWER SYSTEM SHALL BE THOROUGHLY CLEANED PRIOR TO FINAL INSPECTION AND TESTING.
	PROGRAM #1-2001" SPECIFICATIONS. FURNISHING OF THE MATERIALS NECESSARY FOR STOCKPILING OF CRUSHED STONE SHALL CONFORM TO THE "DIVISION 10 OF THE CITY OF JANESVILLE STANDARD	9 THE STORM SEWER SHALL BE TELEVISED IF REQUIRED BY THE CITY OF JANESVILLE.
	SPECIFICATIONS - DETAILED SPECIFICATIONS FOR CRUSHED STONE". SPECIFICATIONS FOR CONSTRUCTION, MATERIALS, AND GENERAL REQUIREMENTS FOR ASPHALTIC CONCRETE PAVEMENT SHALL CONFORM TO "DIVISION 6-OF THE CITY OF LANESVILLE STANDARD SPECIFICATIONS FOR ASPLATTOR	
I	UF JANESVILLE STANDARD SPECIFICATIONS- DETAIL SPECIFICATIONS FOR ASPHALTIC CONCRETE PAVEMENT", EXCLUDING SECTIONS 6.2.3.2, 6.2.4.1, 6.2.4.3, AND 6.2.5	

SOIL EROSION AND SEDIMENTATION CONTROL SPECIFICATIONS		
THE CONTRACTOR SHALL PROVIDE SOIL EROSION AND SEDIMENTATION CONTROL IN ACCORDANCE WITH THE WISCONSIN CONSTRUCTION SITE BEST MANAGEMENT PRACTICE HANDBOOK "FROM THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES AND IN ACCORDANCE WITH THE PLANS.		
SOIL STABILIZATION 1. TOPSOIL AND VEGETATIVE COVER: STRIP TOPSOIL AND REMOVE		
2. TEMPORARY SEEDING: TEMPORARY SEEDING SHALL BE PROVIDED		
WITHIN 15 DAYS TO ANY DISTURBED AREAS INCLUDING STOCKPILES THAT ARE SCHEDULED TO REMAIN DENUDED FOR LONGER THAN 60 DAYS. 3. PERMANENT SEEDING: IMMEDIATELY FOLLOWING FINISH GRADING AND TOPSOLL PLACEMENT INSTALL SEEDING OR SOD IN AREAS AS		EMARKS
4. PAVED AREAS: INSTALL THE AGGREGATE BASE AS SOON AS		
5. SLOPE PROTECTION: PROTECT SEEDING ON STEEP SLOPES WITH		DAT
SEDIMENT CONTROL		OZ
SEDIMENT DEPOSITION BY PRESERVING A VEGETATED BUFFER STRIP OR BY SEDIMENT BARRIERS OR FILTERS AT THE LOWER PERIMETER OF THE LOT.		
2. SEDIMENTATION CONTROL SHALL BE PROVIDED IN ALL AREAS AROUND THE PERIMETER OF ALL STOCKPILE AREAS.		
5. STORM SEWER INLET PROTECTION: DURING CONSTRUCTION FILTER SEDIMENT LADEN WATER THROUGH STRAW BALES BEFORE IT ENTERS NEWLY CONSTRUCTED STORM SEWER.		
<ol> <li>(RESERVED).</li> <li>PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT (MUD) BY RUNOFF OR VEHICLE TRACKING ONTO STATE, COUNTY OR TOWNSHIP HIGHWAYS OR LOCAL STREETS. IF NECESSARY, STATE, COUNTY OR TOWNSHIP HIGHWAYS OR LOCAL STREETS SHALL BE CLEANED DAILY AT THE END OF EACH WORK DAY OR AS REQUIRED TO KEEP MUD AND/OR OTHER DEBRIS OFF OF ANY HIGHWAY OR STREET.</li> </ol>		XX N
6. REMOVAL OF CONTROL MEASURES: DISPOSES OF ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES WITHIN 30 DAYS AFTER FINAL SITE STABLLIZATION IS ACHIEVED.		REMA
7. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES TO BE CHECKED WEEKLY AND AFTER EACH RAIN. CLEAN AND RESTORE AS REQUIRED.		ATE
8. STREETS MUST BE KEPT CLEAN BY STREET SWEEPERS PER THE DISCRETION OF THE OWNER, AND/OR THE DIRECTION OF THE CITY ENGINEER.		NO.
9. (RESERVED) 10. THE ROCK COUNTY CONSERVATION DISTRICT (RCCD) MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION		
CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO THE FINAL INSPECTION. 11. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL		
BE MAINTAINED ON THE SITE AT ALL TIMES. 12. PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE DIANS (INCLUDING DUT NOT LIMITED TO		
ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE OWNER FOR REVIEW BY THE RCCD.		ES ES
13. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION.	ONS	
14. DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS.	CATI	
	ECIFI	
	S	
<b>WATERMAIN NOTES</b> 1. PIPE MATERIALS: WATERMAINS OR SERVICES 3" OR LARGER IN DIAMETER SHALL BE CONSTRUCTED OF RETURNINGLY CONTEND OF THE LINED DUCTULE UPON DIFF. CLASS 52 CONFORMUNC TO ANSLA 21 FO. (ANWA		
BITUMINUUS CUAIED, CEMENT LINED DUCTILE INUN PIPE, CLASS 52, CUMFURMING TO ANSI A-21.50 (AWWA C150) AND ANSI A-21.51 (AWWA C151). CEMENT MORTAR LINING SHALL CONFORM TO ANSI A-21.4 (AWWA C- 104). THE JOINTS SHALL BE O-RING GASKETED PUSH-ON OR MECHANICAL JOINTS CONFORMING TO ANSI A-21.11 (AWWA C-111).		
2. FITTINGS: ALL FITTINGS SHALL BE OF DUCTILE IRON WITH CEMENT MORTAR LINING AND MECHANICAL JOINTS CONFORMING TO ANSI AS21.10 (AWWA C-110).		
<ol> <li>ALL DUCTILE IRON WATERMAIN AND FITTINGS SHALL BE POLYETHYLENE TOBE ENCASED. ALL MECHANICAL JUINT FITTINGS SHALL USE STAINLESS STEEL NUTS AND BOLTS.</li> <li>WATER SERVICES: WATER SERVICE PIPE, 3" IN DIAMETER OR SMALLER, SHALL BE TYPE K COPPER WATER TUBING,</li> </ol>	S S	
CONFORMING TO ASIM B-88 AND B-251, WITH COMPRESSION OR FLARED JOINTS. 5. GATE VALVES SHALL BE RESILIENT WEDGE IN ACCORDANCE WITH VILLAGE DETAIL. THE MECHANICAL JOINTS AND ALL FASTENERS ON THE VALVE BODY SHALL HAVE STAINLESS STEEL NUTS AND	RS GINEER	700, 018 065
BOLTS. 6. VALVE VAULTS SHALL BE IN ACCORDANCE WITH PROVIDED DETAIL.	<b>GINEE</b> NT ENO	<b>25</b> Suite 7 linois 60 7) 696-4
7. FIRE HYDRANTS SHALL BE IN ACCORDANCE WITH PROVIDED DETAIL. 8. ALL WATERMAIN SHALL HAVE COMPACTED CA-7, GRANULAR BEDDING, A MINIMUM OF 4 INCHES BELOW THE BOTTOM OF THE PIPE FOR THE FULL LENGTH, COST FOR BEDDING SHALL BE MERGED WITH THE UNIT PRICE BID	NG EN LOPME	<b>VEYO</b> Is Road mont, Il ax: (84)
FOR THE WATERMAIN. 9. A MINIMUM DEPTH OF COVER OF 6'O" SHALL BE MAINTAINED OVER THE WATER LINES. THE MAXIMUM COVER	NSULTI E DEVE	ND SUR . Higgir Rose -4060 F
10. CONCRETE THRUST BLOCKING SHALL BE INSTALLED ON WATERMAINS AT ALL BENDS, TEES, ELBOWS, ETC. RETAINER GLANDS MAY BE USED WHEN APPROVED BY THE MUNICIPAL ENGINEER.	SIT	9575 W 847) 696
11. SSSWCW WATERMAIN PROTECTION 1. HORIZONTAL SEPARATION:		hone: (
<ul> <li>b) WATERMAINS SHALL BE LAID AT LEAST EIGHT FEET HORIZONTALLT FROM ANT EXISTING OR PROPOSED</li> <li>DRAIN, STORM SEWER, SANITARY SEWER OR SEWER SERVICES CONNECTION.</li> <li>b) WATERMAINS MAY BE LAID CLOSER THAN EIGHT FEET TO A SEWER LINE WHEN:         <ol> <li>LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF EIGHT FEET;</li> <li>LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF EIGHT FEET;</li> </ol> </li> </ul>		<u>م</u>
<ul> <li>2) THE WATERMAIN INVERT IS AT LEAST 18 INCHES ABOVE THE CROWN OF THE SEWER; AND</li> <li>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.</li> <li>c) BOTH THE WATERMAIN AND DRAIN OR SEWER SHALL BE CONSTRUCTED WITH PIPE EQUIVALENT TO</li> </ul>		
WATERMAIN STANDARDS OF CONSTRUCTION WHEN IT IS IMPOSSIBLE TO MEET (@) OR (b) ABOVE. THE DRAIN OR SEWER SHALL BE PRESSURE TESTED TO THE MAXIMUM EXPECTED SURCHARGE HEAD BEFORE BACKFILLING. 2. VERTICAL SEPARATION:		
d) A WATERMAIN SHALL BE LAID SO THAT ITS INVERT IS 18 INCHES ABOVE THE CROWN OF THE DRAIN OR SEWER WHENEVER WATERMAINS CROSS STORM SEWERS, SANITARY SEWERS OR SEWER SERVICE CONNECTIONS. THE VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATERMAIN LOCATED WITHIN EIGHT FEET HORIZONTALLY OF ANY SEWER OR DRAIN CROSSED. A	SPA	CECO INC.
LENGTH OF WATERMAIN PIPE SHALL BE CENTERED OVER THE SEWER TO BE CROSSED WITH JOINTS EQUIDISTANCE FROM THE SEWER OR DRAIN. b) BOTH THE WATERMAINS AND SEWER SHALL BE CONSTRUCTED WITH PIPE EQUIVALENT TO WATERMAIN STANDARDS OF CONSTRUCTION WHEN:	FILEN 8251	AME: SPEC.DGN
1) IT IS IMPOSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION AS DESCRIBED IN (d) ABOVE; OR 2) THE WATERMAIN PASSES UNDER A SEWER OR DRAIN. c) A VERTICAL SEPARATION OF 18 INCHES BETWEEN THE INVERT OF THE SEWER OR DRAIN AND THE	DATE 12/23	: 3/14
CROWN OF THE WATERMAIN SHALL BE MAINTAINED WHERE A WATERMAIN CROSSES UNDER SEWER. SUPPORT THE SEWER OR DRAIN LINES TO PREVENT SETTLING AND BREAKING THE WATER MAIN. d) 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 EIGHT FFFT.	JOB 8251	NO.
12. ALL WATERMAINS SHALL BE PRESSURE TESTED, FLUSHED AND DISINFECTED IN ACCORDANCE WITH AWWA AND MUNICIPAL SPECIFICATIONS. EACH VALVE SECTION SHALL BE PRESSURE TESTED FOR A MINIMUM OF 4 HOURS. ALLOWABLE LEAKAGE IS TO BE ONLY THAT WHICH IS PREDETERMINED BY THE STANDARD SPECIFICATIONS FOR	SHEE	
WATER AND SEWER CONSTRUCTION IN WISCONSIN. AT NO TIME IS THERE TO BE ANY VISIBLE LEAKAGE FROM THE MAIN.		<b>571</b> OF 13

![](_page_7_Figure_0.jpeg)

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## **NE POND**

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# NW POND

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POND CROSS SECTIONS		AUTUMN LEAVES FRANKLIN, WISCONSIN
CONSULTING ENGINEERS SITE DEVELOPMENT ENGINEERS	LAND SURVEYORS	9575 W. Higgins Road, Suite 700, Rosemont, Illinois 60018 Phone: (847) 696-4060 Fax: (847) 696-4065
SPAC FILEN 8251> DATE 12/23	AME (SO <sup>2</sup> ): 3/14	EO INC.
JOB 8251 SHEE	NO. T <b>XS</b>	S1

![](_page_9_Figure_0.jpeg)

THAT PART OF THE EAST 1/2 OF THE EAST 1/2 OF THE SE 1/4 OF SECTION 8, AND PART OF THE SW 1/4 OF SECTION 9, T 5 N, R 21 E, IN THE CITY OF FRANKLIN, MILWAUKEE COUNTY, WISCONSIN, WHICH IS BOUNDED AND DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF SAID SE 1/4 SECTION; THENCE SOUTH 88° 09' 29" WEST ALONG THE SOUTH LINE OF SAID 1/4 SECTION 169.86 FT. TO THE POINT OF BEGINNING OF THE LANDS

THIS SURVEY REFLECTS MATTERS OF TITLE AS LISTED ON A COMMITMENT FOR TITLE INSURANCE BY CHICAGO TITLE INSURANCE COMPANY, COMMITMENT NO. CO-1841 EFFECTIVE DATE: MAY 9, 2014.

UNDERGROUND UTILITIES ARE SHOWN BY USING PHYSICAL EVIDENCE FOUND ON THE SURFACE AND/OR FROM UTILITY COMPANY FIELD STAKES, AND/OR ENGINEERING DESIGN PLANS. THEREFORE, THEIR LOCATIONS ARE APPROXIMATE AND SUSPECTED AND MAY NOT BE COMPLETELY ACCURATE. FOR MORE ACCURATE LOCATION, FIELD EXCAVATE. OTHER UTILITIES NOT SHOWN MAY EXIST. NO UNDERGROUND UTILITIES WERE LOCATED. BEFORE DIGGING CALL DIGGERS HOTLINE AT 811 OR 1-800-242-8511.

ALL DIMENSIONS ARE IN FEET AND DECIMAL PARTS THEREOF. NO DISTANCES OR ANGLES SHOWN HEREON MAY BE ASSUMED BY SCALING. TAX KEY NO. (PER TITLE COMMITMENT): 784-9994-003

BASED UPON A REVIEW OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) MAP NUMBER 55079C0143E AND 55079C0144E WITH EFFECTIVE DATE: SEPTEMBER 26, 2008, IT IS OUR CONSIDERED OPINION THAT THIS PROPERTY LIES IN ZONE X - AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AS

PROPERTY SURVEYED CONTAINS 301,283 SQUARE FEET, OR 6.917 ACRES,

THE CURRENT ZONING FOR THE SURVEYED PROPERTY IS R-8 - MULTIPLE FAMILY RESIDENCE DISTRICT, BASED ON THE CITY OF FRANKLIN WEBSITE

THIS SURVEY COMPLIES WITH CHAPTER AE-7 OF THE WISCONSIN ADMINISTRATIVE CODE AND IS CORRECT TO THE BEST OF THE SURVEYOR'S

![](_page_9_Figure_20.jpeg)

TO: CHICAGO TITLE INSURANCE COMPANY AND TO: PRESERVE APARTMENTS LLC AND PAUL J. BURBACH THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2011 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS," JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4 6(a), 8, 11(a) & 13 OF TABLE "A" THEREOF. THE FIELD WORK WAS COMPLETED ON JUNE 9, 2014. THIS SURVEY WAS PREPARED FOR THE LASALLE GROUP, INC. IRVING, TEXAS GIVEN UNDER MY HAND AND SEAL THIS\_\_\_\_\_ DAY OF\_\_\_ ROSEMONT, ILLINOIS.

CONSULTING ENGINEERS SITE DEVELOPMENT ENGINEERS AND SURVEYORS

9575 W. Higgins Road, Suite 700,

DATE: 07/17/201 JOB NO: 8251 FILENAME 8251ALTA-01 Rosemont, Illinois 60018 SHEET Phone: (847) 696-4060 Fax: (847) 696-4065 1 OF 1

![](_page_9_Picture_25.jpeg)

OBSERVATION WISCONSIN C.O.R.S. - MILWAUKEE

![](_page_9_Figure_27.jpeg)

GRAVEL

![](_page_10_Figure_0.jpeg)