OWNER

KENSINGTON SCHOOL 743 MCCLINTOCK DRIVE BURR RIDGE, IL 60527 PHONE: (312) 907-7979

ARCHITECT

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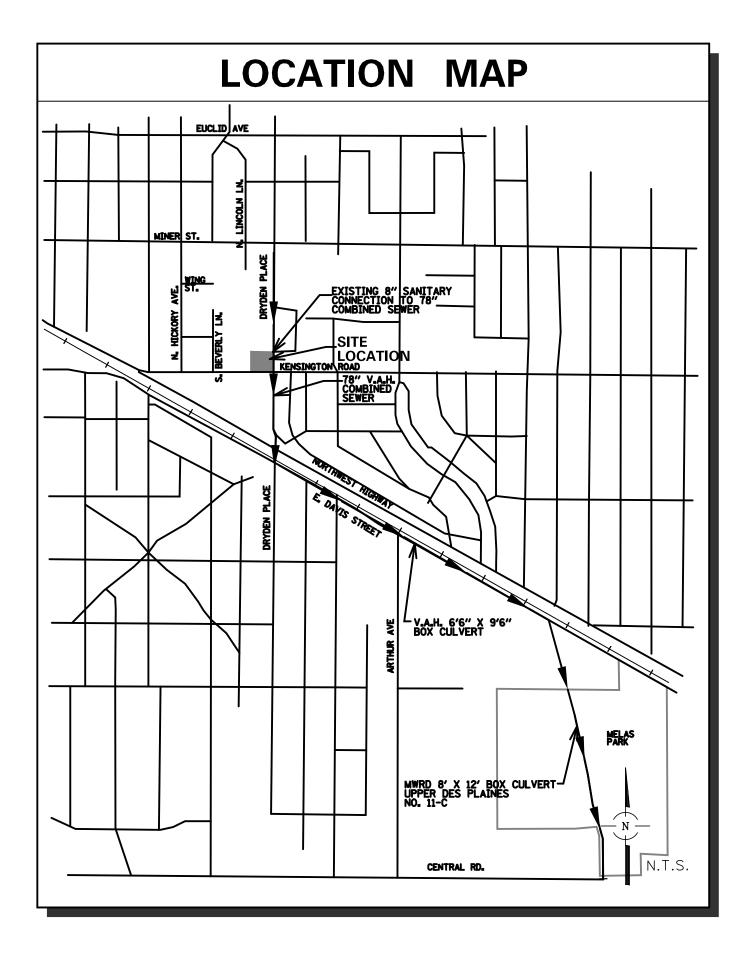
HAGUE ARCHITECTURE 418 CLINTON PLACE RIVER FOREST, IL 60305 PHONE: (708) 771-3900

CALL J.U.L.I.E. 1-800-892-0123 WITH THE FOLLOWING: COUNTY COOK CITY, TOWNSHIP VILLAGE OF ARLINGTON HEIGHTS, WHEELING TOWNSHIP SEC. & 1/4 SEC. NO. SE 1/4 OF SEC. 29, T42N, R11E

48 HOURS BEFORE YOU DIG. **EXCLUDING SAT., SUN. & HOLIDAYS**

INDEX SHEET SHEET SHEET DESCRIPTION I.D. # C1 | COVER SHEET 1 GN1 GENERAL NOTES AND TYPICAL SECTIONS 2 E1 EXISTING CONDITIONS 3 L1 | GEOMETRIC PLAN 4 | G1 | GRADING PLAN 5 6 U1 | UTILITY PLAN 7-9 SE1-SE3 SOIL EROSION AND SEDIMENT CONTROL PLANS 10-11 | SP1-SP2 | SPECIFICATIONS 12-13 D1-D2 DETAILS

BENCHMARK **ELEVATION:** DESCRIPTION: SEE SHEET E1 FOR



SITE IMPROVEMENT PLANS for

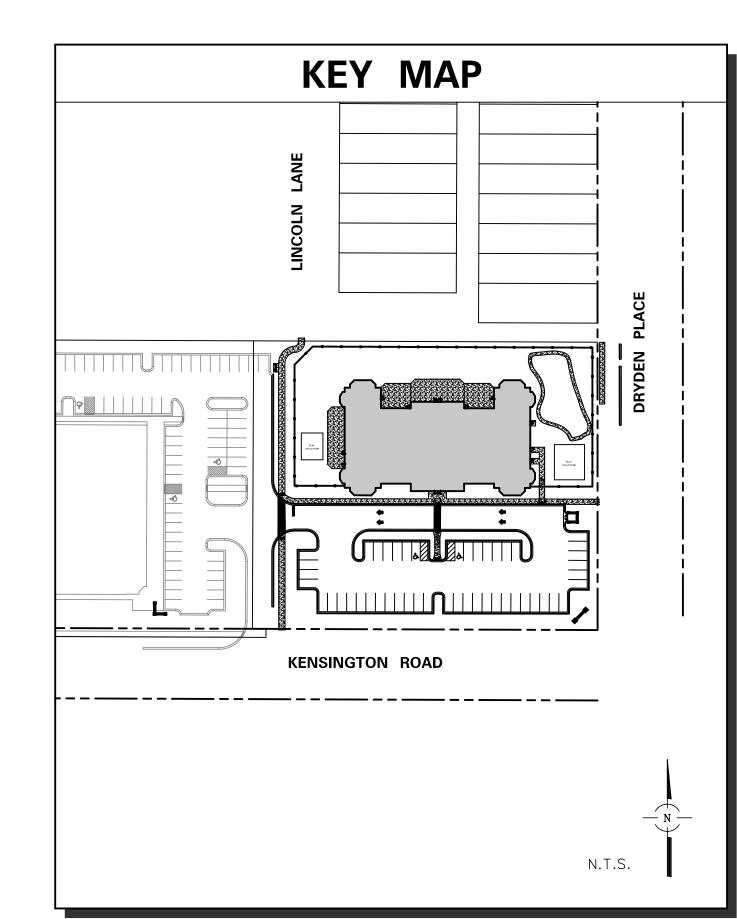
KENSINGTON SCHOOL

VILLAGE OF ARLINGTON HEIGHTS COOK COUNTY, ILLINOIS **PROJECT NO: 6124.07**

BENCHMARK INFORMATION

NOTE:

SPACECO, INC. IS TO BE NOTIFIED AT LEAST THREE (3) DAYS PRIOR TO STARTING CONSTRUCTION AND SHALL BE INCLUDED IN THE PRECONSTRUCTION MEETINGS



FOR PRELIMINARY REVIEW NOT FOR CONSTRUCTION

PROFESSIONAL DESIGN FIRM NO.: 184-001157 EXPIRATION DATE: 04/30/2017 THESE PLANS OR ANY PART THEREOF SHALL BE CONSIDERED VOID WITHOUT THE SIGNATURE, SEAL, AND EXPIRATION DATE OF SEAL OF THE ENGINEER

ILLINOIS REGISTRATION NO.: 062-054942 EXPIRATION DATE: 11/30/2017

ENGINEER JAMES C. KAPUSTIAK P.E.

DATE SEAL

C	ORIGINAL PLAN DATE: FEBRUARY 12, 2016							
#	SHEET #	DATE						
1	4	FIRE TRUCK TURNING MOVEMENTS	04/18/16					
2	4	PER DESIGN COMMISSION MEETING	04/27/16					
3	2,4-6,9	PER VILLAGE OF ARLINGTON HEIGHTS	05/10/16					
4	4-6,9	PER CLIENT	07/19/16					
5	4	PER VILLAGE OF ARLINGTON HEIGHTS	08/10/16					

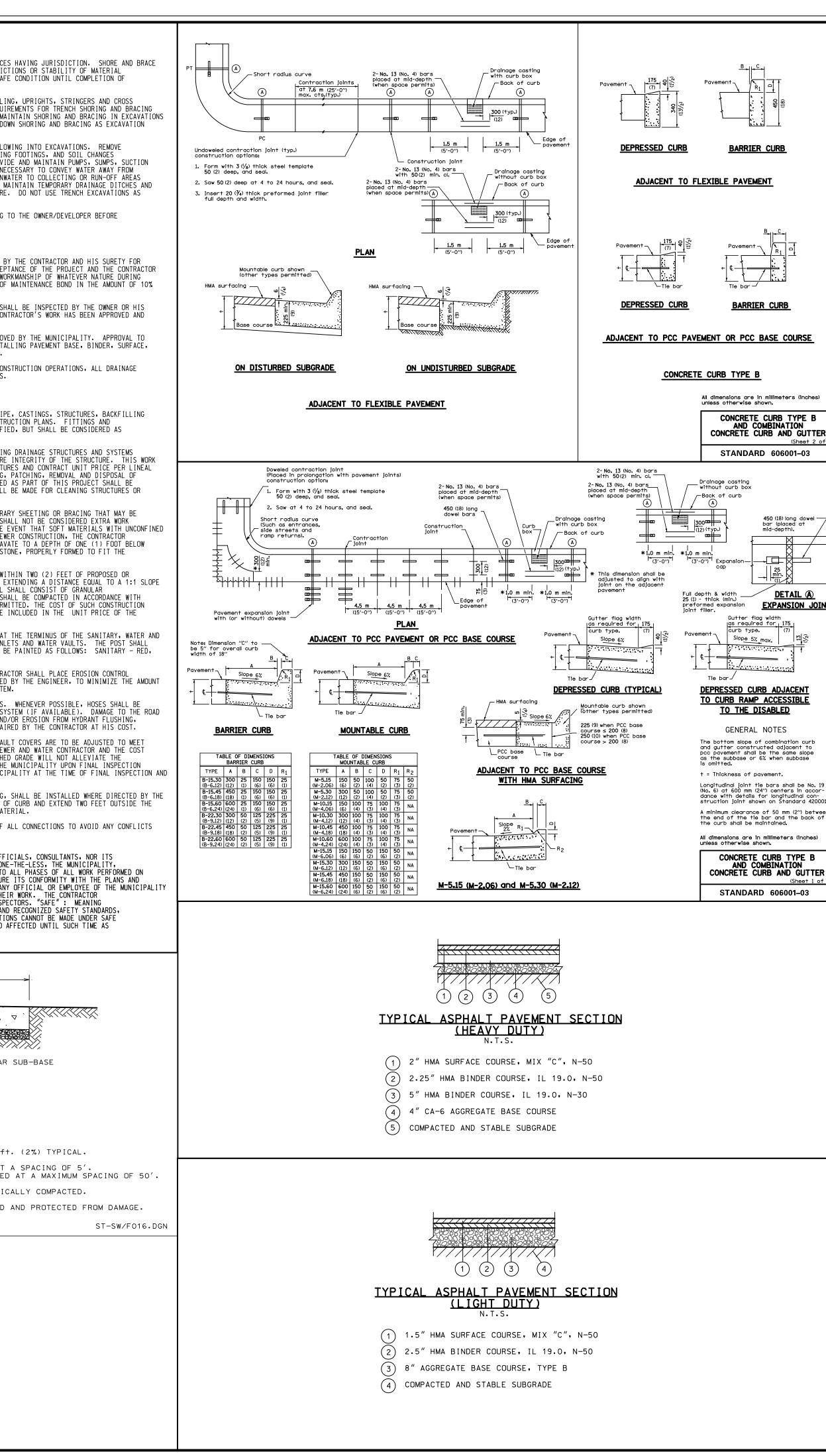


Rosemont, Illinois 60018 4060 Fax: (847) 696-4065 ins Road, Suite 700, Phone: (847) 696

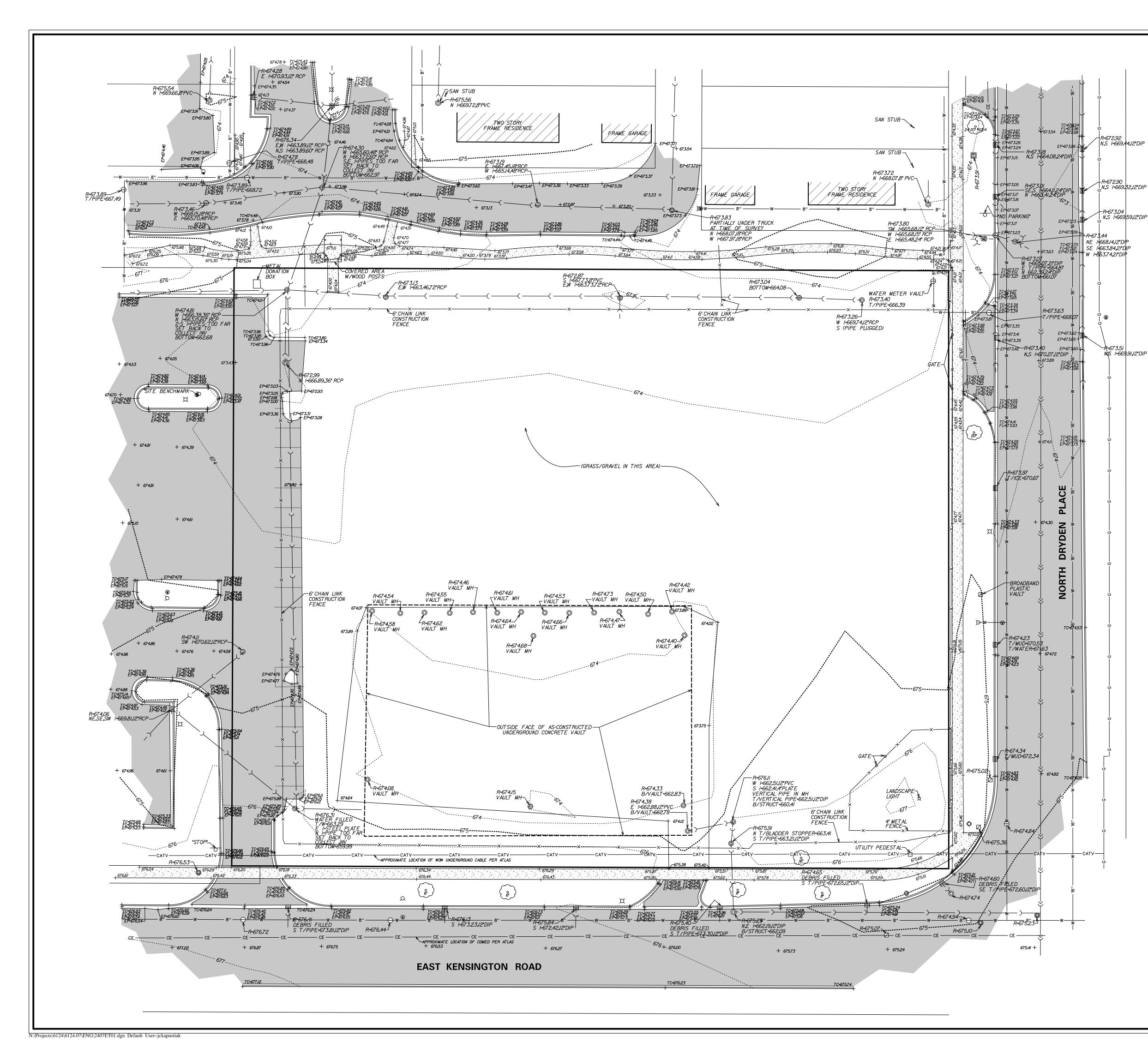
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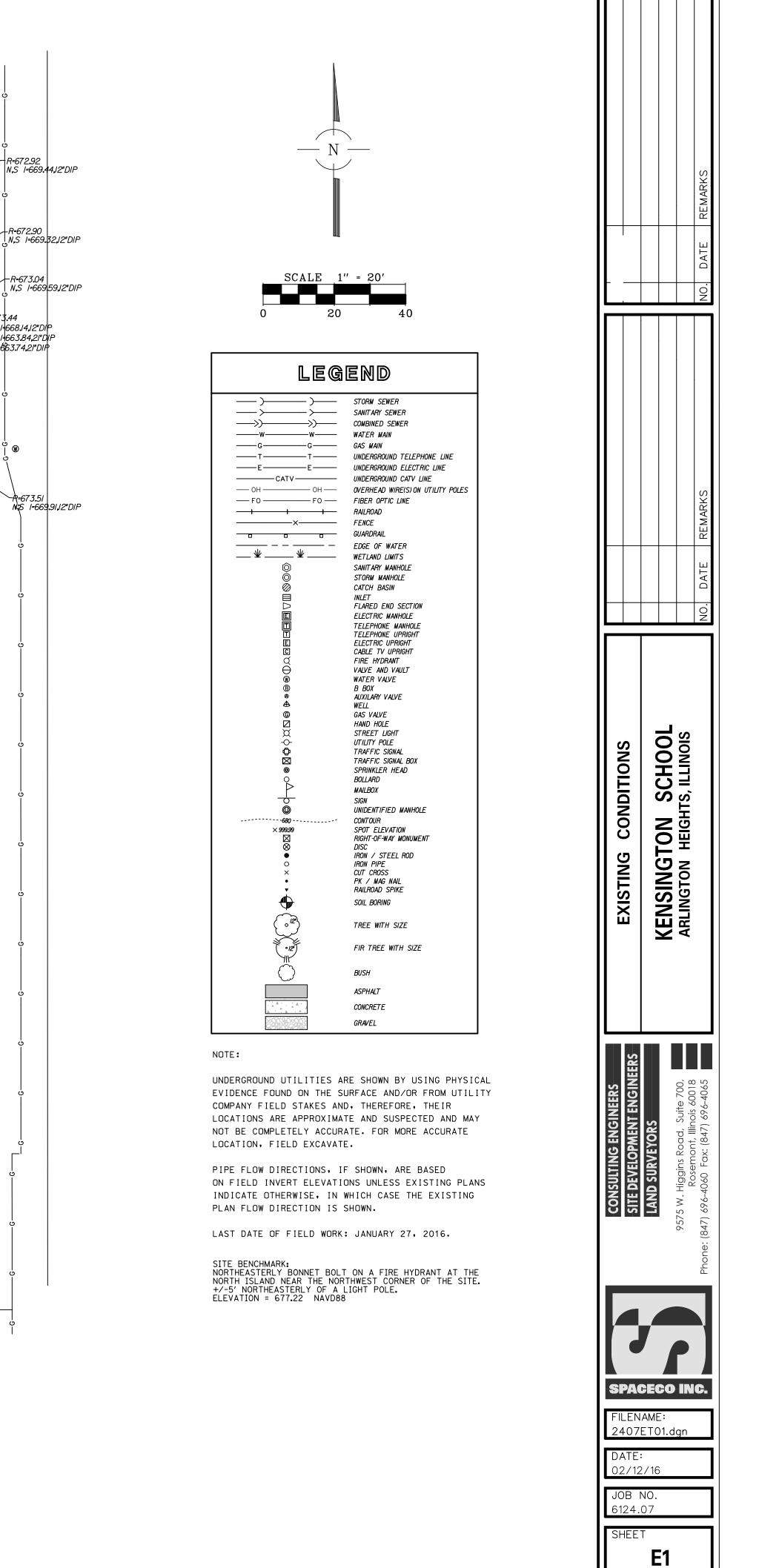
<u>GENERAL NOTES</u>	
 RELEMENDO CREEKE A. J., ALPARTEN MONOTONING THE SERVICE AND ALL ONTON TO THE STRUCTURE AND EXPERIENCES. IN CONTRACT, AND EXPERIENCES. AND EXP	 GREEAL EXCAVATION/UNDERGROUND NOTES SUPE SIDES OF EXCAVATION TO CORPLY WITH CODES AND OPDIMUNESS WHERE SUPERING IS SUPER CONTROL IN A SUPER SUPERING IS WARDED WARDEN AND SUBCE AND SUPERING IN SUPERING IN A SUPER SUPERING IN A SUPERING IN A SUPERING IN A SUPERING IN THE SUPERING IN A SUPERING IN SUPERING IN THE SUPERING IN SUPERING IN
COMMENCEMENT OF CONSTRUCTION THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THE WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IN ADDITION, THE CONTRACTOR MUST VERIFY THE REINERE'S LINE AND GRADE STAKES. IF THERE ARE ANY DISCREPANCIES WITH WHAT IS SHOWN THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT SAME DE CONTRACTOR SHALL SCHORANY WORK, OTHERWISE THE CONTRACTOR ASJOMES FULL RESPONSIBILITY. IN THE EVENT OF DISCREPANCIES WITH WHAT IS SHOWN DI THE CONSTRUCTION PLANS, SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDIOR WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTIONS ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE. ALL PROPOSED ELEVATIONS SHOWN ON THE PLANS ARE FINISHED SURFACE ELEVATIONS, UNLESS OTHERWISE SPECIFIED. UPON AWARDING OF THE CONTRACT, AND WHEN REQUIRED BY THE MUNICIPALITY OR OWNER, THE CONTRACTOR SHALL FURNISH A LABOR, MATERIAL AND PERFORMANCE BOND IN THE AMOUNT REQUIRED GUARANTEEING COMPLETION OF THE WORK. THE UNDERWRITER SHALL BE ACCEPTABLE TO THE MUNICIPALITY OR OWNER, SA PROPORIATE. THE CONTRACTORS SHALL PLAN THEIR WORK BASED ON THEIR OWN BORINGS, EXPLORATIONS AND OBSERVATIONS TO DETERMINE SOIL CONDITIONS AT LE LOCATION OF THE PROPOSED WORK. HOWEVER, IF THE OWNER HAS A SOILS REPORT, THE RESULTS WILL BE AVAILABLE FROM THE OWNER UPON WRITTEN REQUEST. COMMENCING CONSTRUCTION A. THE CONTRACTOR SHALL NOTIFY THE OWNER AND/OR HIS REPRESENTATIVE AND THE AFFECTED GOVERNMENTAL AGENCIES IN WRITING AT LEAST THREE FULL WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL NOTIFY AS NECESSARY, ALL TESTING SHALL BE THE RESPONSIBILITY'S OR THE OWNER'S, SUFFICIENTLY IN ADVANCE OF CONSTRUCTION ALL MATERIAL TESTING SHAL	 EXISTING PAVEMENTS, UTILITIES, DRIVEWAYS, AND SIDEWALKS AND EXT FROM SUBGRADE ELEVATION TO TOP OF PIPE. THE TRENCH BACKFILL SHAL (SSREG) SPECIFICATIONS. JETINO WITH WATER SHALL NOT BE PERMIT SHALL BE CONSIDERED INCIDENTAL TO THIS CONTRACT AND SHALL BE IN PIPE. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS ITEM. E. THE CONTRACTOR SHALL INSTALL A 4" X 4" X 6" (NOMINAL) POST AT T STORM SERVICE, SANITARY AND STORM MANHOLES, CATCH BASINS, INLET EXTEND 4" ABOVE THE GROUND. THE TOP 12" OF SAID POST SHALL BE WATERMAIN - BLUE, STORM - GREEN. F. AFTER THE STORM SEWER SYSTEM HAS BEEN CONSTRUCTED, THE CONTRACT AT REAR YARD INLET LOCATIONS, AND AT OTHER LOCATIONS SELECTED B OF SILTATION WHICH NORMALLY WOLLD ENTER THE STORM SEWER SYSTEM. G. HYDRANTS SHALL NOT BE FLUSHED DIRECTLY ON THE ROD SUBGRADES. USED TO DIRECT THE WATER DISTRIBUTION SYSTEM. WILL BE REPAIR SUBGRADE OR LOT GRADING DUE TO EXCESSIVE MATER SATURATION AND/O OR FROM LEAKS IN THE WATER DISTRIBUTION SYSTEM. WILL BE REPAIR H. ALL TOP OF FRAMES FOR STORM AND SANITARY SEWERS AND VALVE VAULT FINAL FINISH GRADE. THIS ADJUSTMENT S AS REQUIRED BY THE SEVER IS TO BE CONSIDERED INCIDENTAL. THESE ADJUSTMENTS TO FINISHED CONTRACTOR FROM ANY ADDITIONAL ADJUSTMENTS AS REQUIRED BY THE SEVER IS TO BE CONSIDERED INCIDENTAL. THESE ADJUSTMENTS AS FREQUIRED BY THE MUNICIPA MAY VARY FROM PLAN GRADE.) I. SLEEVES FOR UTILITY (COMED, TELEPHONE, ETC.) STREET CROSSING, S OWNER. SLEEVES SHALL BE 6" PVC INSTALLED 36" BELOW THE TOP OF CURB. TRENCH SHALL BE BACKFILLED WITH COMPACTED GRANULAR MATER J. THE CONTRACTOR SHALL VERIFY THE SIZE AND INVERT ELEVATION OF AL BEFORE STARTING WORK. NOTIFY DWNER OF ANY DISCREPANCIES. 25. IT SHALL BE UNDERSTOOD THAT NEITHER THE MUNICIPALITY. ITS OFFIC CONDITIONS. THE TOR WORK. NOTIFY DWNER OF ANY DISCREPANCIES. 25. IT SHALL BE UNDERSTOOD THAT NEITHER THE MUNICIPALITY. ITS OFFIC CONDITIONS. THE TOR WORK. NOTIFY DWNER OF ANY DISCREPANCIES. 25. IT SHALL BE UNDERSTOOD THAT NEITHER TH

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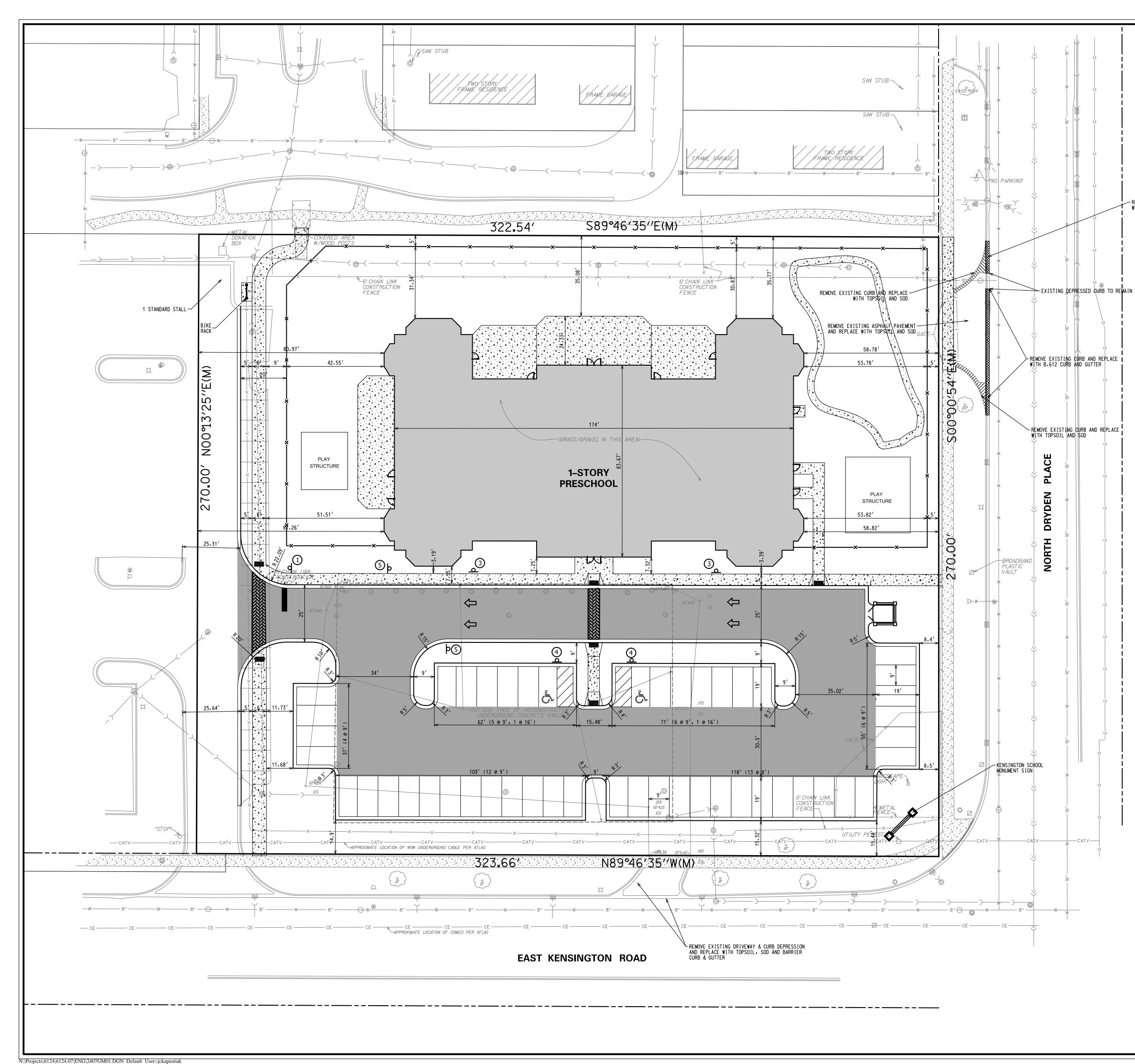


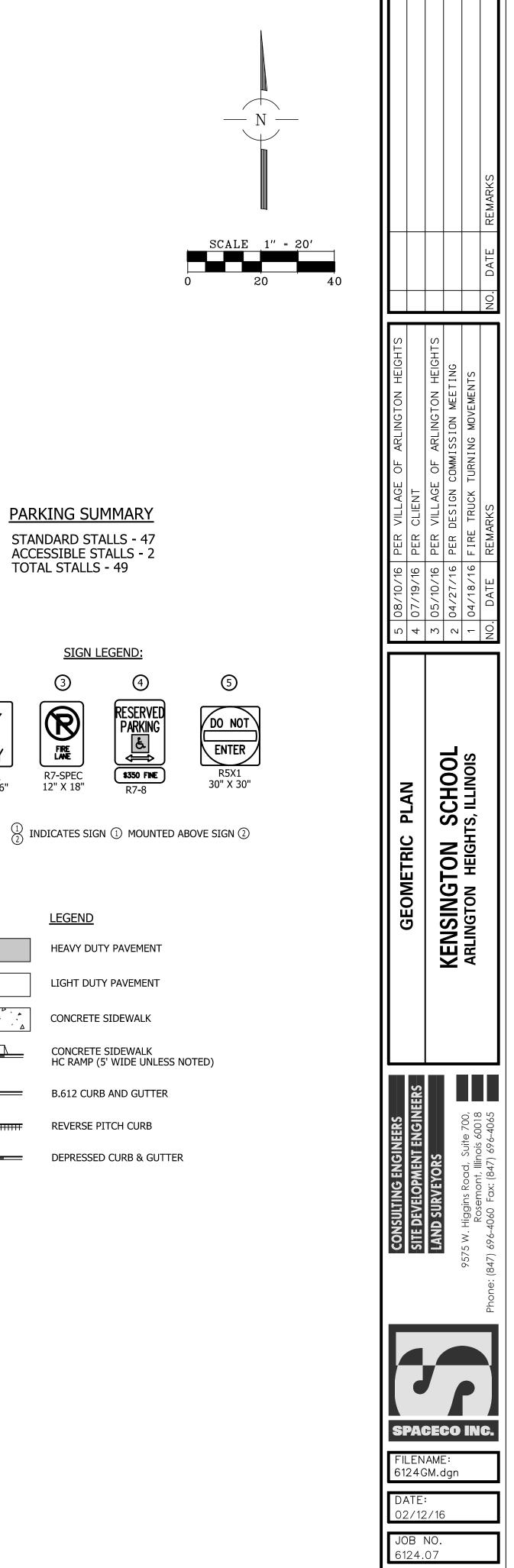
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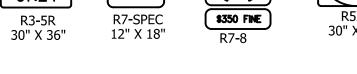
REMOVE EXISTING CURB AND REPLACE WITH B.612 CURB AND GUTTER

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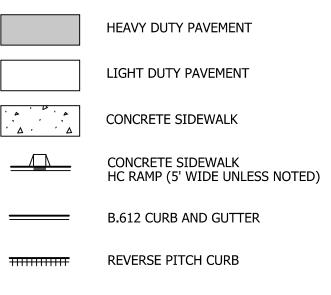
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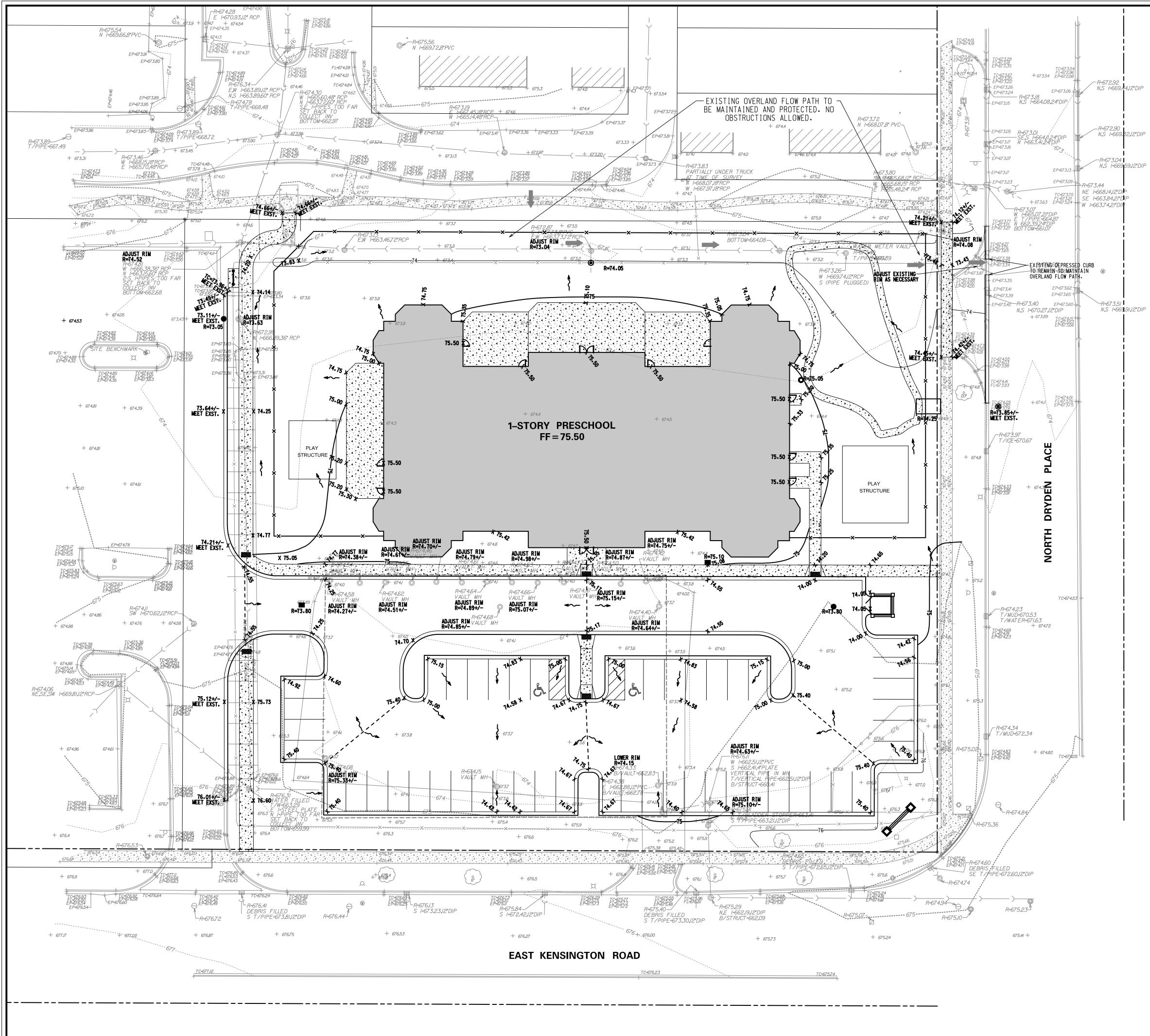
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<u>LEGEND</u>

F/F FINISHED FLOOR LOCAL DRAINAGE -~~ 100-YEAR OVERLAND FLOW ROUTE ---- LOCAL DRAINAGE DIVIDE

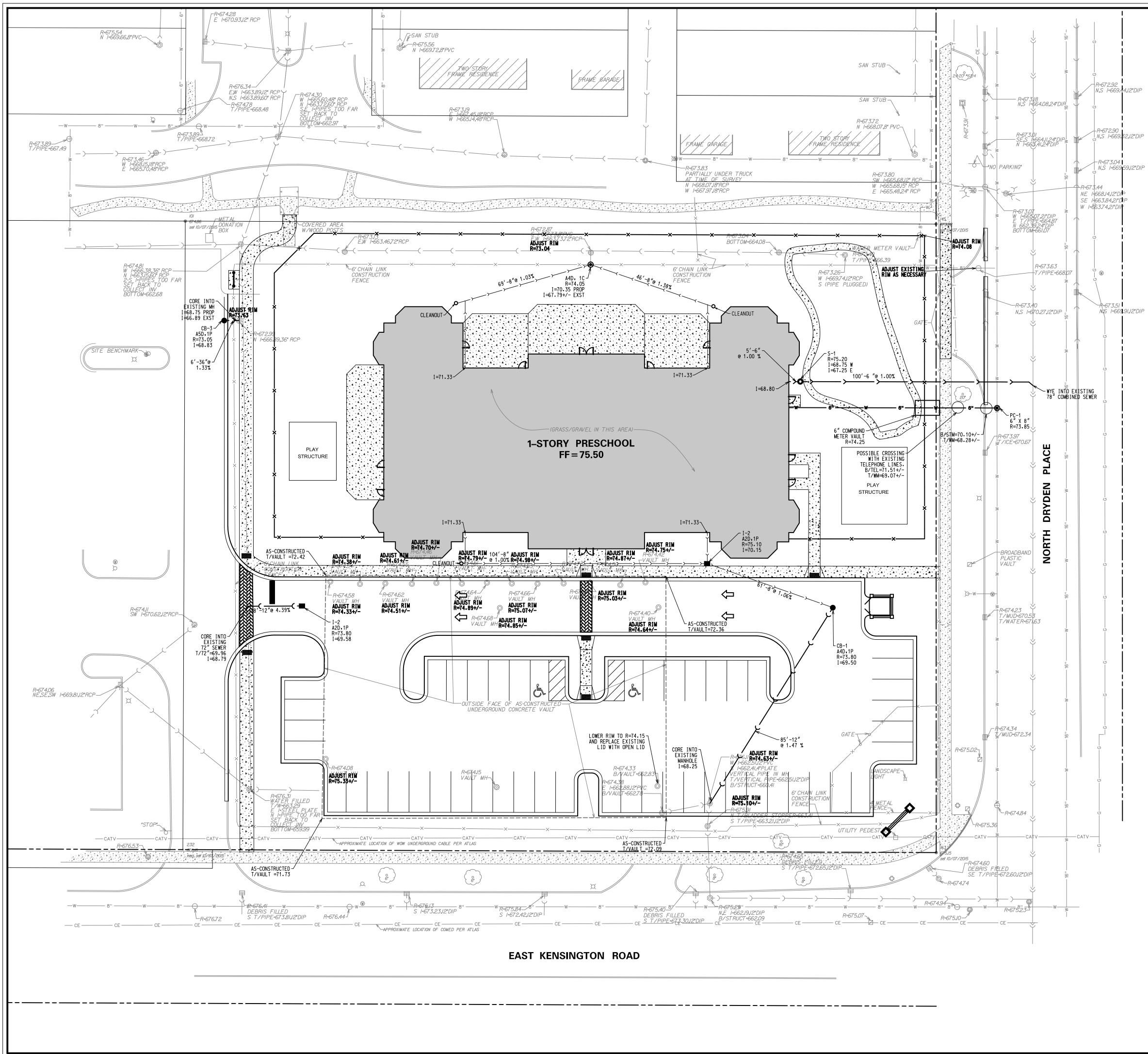
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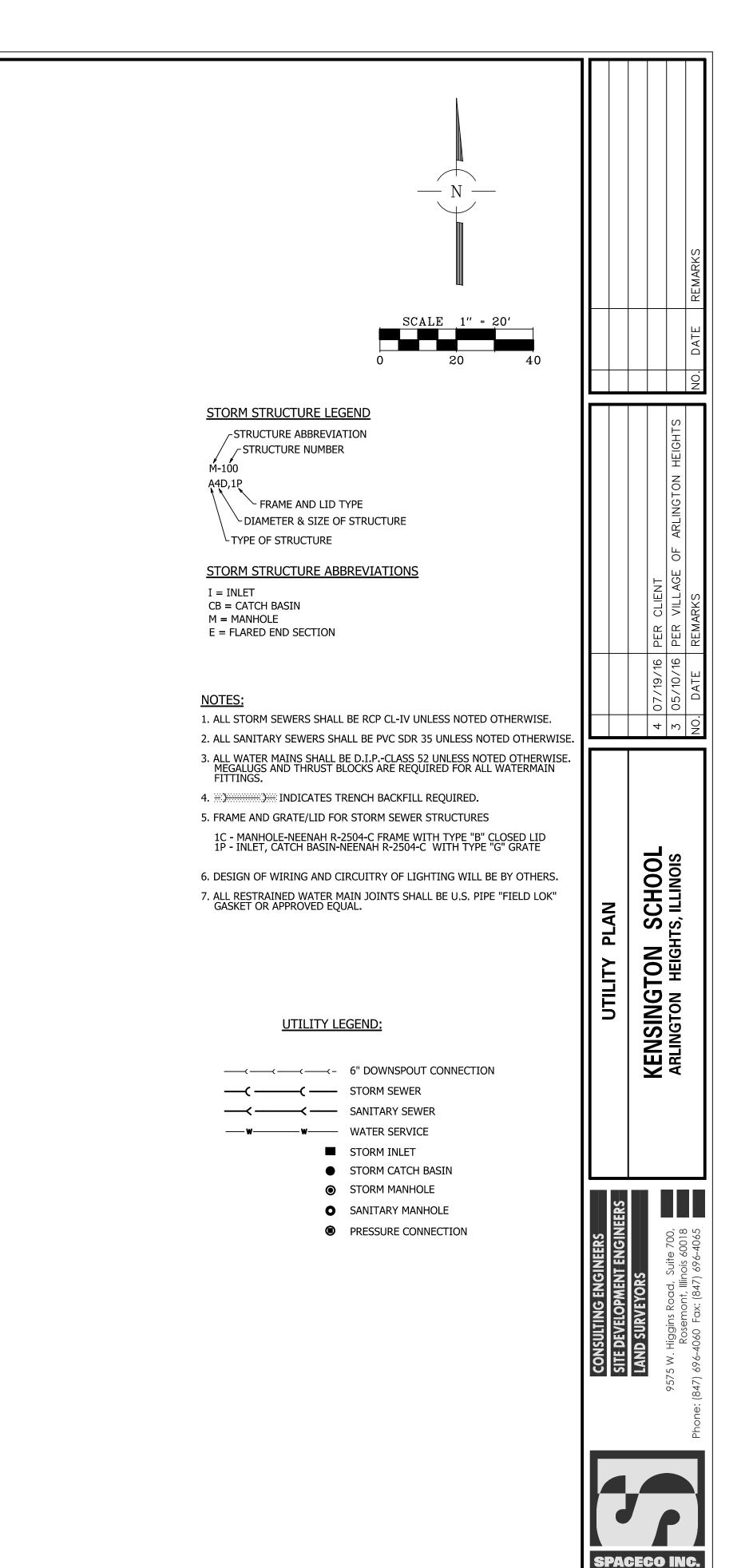
2. ALL CURB AND GUTTER IS STANDARD PITCH UNLESS NOTED OTHERWISE.

3. ALL SPOT GRADES ALONG CURB LINE ARE EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.

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KENSINGTON SCHOOL ARLINGTON HEIGHTS, ILLINOIS
LAND SURVEYORS 9575 W. Higgins Road, Suite 700, Rosemont, Illinois 60018 Phone: (847) 696-4060 Fax: (847) 696-4065
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This Soil Erosion & Sediment Control (SESC) Plan has been prepared to fulfill one of the requirements of the National Pollutant Discharge Elimination System (NPDES) General Permit No. ILR10 N132 SESC Plan should be maintained on site as an integral component of the Storm Water Pollution Prevention Plan (SWPPP). The SWPPP, including the SESC Plan, should be amended whenever there is a change in design, construction, operation, or maintenance, which has a significant effect on the potential for the discharge of pollutants to the Waters of the State and which has not otherwise been addressed in the SWPPP. The SWPPP, shall also be amanded if it proves to be ineffective in eliminating or significantly minimizing pollutants, or in otherwise achieving the general objectives of controlling pollutants in storm water discharges associated with construction site activity. In addition, the SWPPP shall be amended to identify any new contractor and/or subcontractor that will implement a measure of the SWPPP. 1. SITE DESCRIPTION

A. The following is a description of the nature of the construction activity: <u>The proposed development consists</u> of construction one story preschool. The construction activities for site improvement include as a minumum: <u>Pavement construction</u>, utility installation, and soil erosion and sediment control measures. B. The following is a description of the intended sequence of construction activities which will disturb

soils for major portions of the construction site: Describe proposed construction sequence, sample follows:

- 1) Install perimeter sediment control measures a) Selective vegetation removal for silt fence installation
- Silt fence installation c) Construction fencing around areas not to be disturbed
- d) Stabilized construction entrance Clear and arub (as necessary)
-) Construct sediment trapping devices (sediment traps, sediment basins, etc.) Strip topsoil, stockpile topsoil and grade site
- Temporarily stabilize topsoil stockpiles (seed and silt fence around toe of slope) Install storm sewer, sanitary sewer, watermain and associated inlet & outlet protection
- Temporarily stabilize all areas including lots that have reached mass grade Install roadways
-)) Permanently stabilize all outlot areas 10) Install buildings and grade individual lots 11) Permanently stabilize lots

12) Remove all temporary soil erosion and sediment control measures after the site is stabilized with vegetation

C. The site h<u>as a t</u>otal acreage of approximately 2.03 acres. Construction activity will disturb approximately 1.83 acres of the site.

D. 1) An estimated runoff coefficient of the site after construction activities are completed is. 2) Existing data describing the soil or quality of any discharge from the site is included in

- . Refer to Sheets <u>G1, U1, PP1-PP3, SE1-SE3</u> for a site plan indicating:
- 1) drainage patterns;) approximate slopes anticipated before and after major grading activities; locations where vehicles enter or exit the site and controls to minimize off-site sediment tracking;
- areas of soil disturbance;) the location of major structural and nonstructural controls;
- b) the location of areas where stabilization practices are expected to occur;) surface waters (including wetlands); and,
-) locations where storm water is discharged to a surface water.
- F. 1) The name of the receiving water(s) is(are): <u>Weller Creek.</u> 2) The name of the ultimate receiving water is: <u>Des Plaines River</u> .
- 3) The extent of wetland acreage at the site is <u>0 acres.</u>
- G. Potential sources of pollution associated with this construction activity may include: sediment from disturbed soils
- portable sanitary stations - fuel tanks
- staaina areas - waste containers
- chemical storage areas oil or other petroleum products
- adhesives tar
- solvents - detergents
- fertilizers - raw materials (e.g., bagged portland cement)
- construction debris landscape waste - concrete and concrete trucks
- litter
- 2. CONTROLS

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 SWPPP, the contractor(s) or subcontractor(s) that will implement the measure should be identified. All contractors 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.

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 Department of Agriculture's Natural Resource Conservation Service Illinois Urban Manual, 2002. 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 are enforceable under the ILR10 permit even if they are not specifically included in a SWPPP required under the ILR10 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.

The soil erosion and sediment control measures for this site should meet the requirements of the following agencies: - Village of Arlington Heights

- North Cook County SWCD
- B. Control Implementation Schedule

Best Management Practices will be implemented on an as-needed basis to protect water auglity. 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 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 disturbing activities.

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 after final stabilization of those portions of the site upward of the perimeter control. C. Erosion and Sediment Controls

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 of the end of a 0.5-inch (or greater) rain event, or snowfall equivalent.

Unless 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 measures necessary to minimize erosion and sedimentation 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 sediment control measures. Additional erosion controls should be implemented as necessary, as determined by the Engineer or Primary Contact.

The following temporary and permanent stabilization practices, at a minimum, are proposed:

- permanent seeding temporary seeding – erosion control blanket

Site-specific scheduling of the implementation of these practices is included in the Soil Protection Chart. 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.

Except as provided in paragraphs (a) and (b) below, stabilization measures shall be initiated as soon as practicable on portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 7 days after the construction activity on that portion of the site has temporarily or permanently ceased.

(a) Where the initiation of stabilization measures by the 7th day after construction activity temporarily or permanently ceased is precluded by snow cover, stabilization measures shall be initiated as soon as practicable. (b) Where construction activity will resume on a portion of the site within 14 days from when activities ceased, (e.g., the total time period that construction activity is temporarily ceased is less than 14 days) then stabilization measures do not have to be initiated on that portion of site by the 7th day after construction activity temporarily ceased.

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:

- stabilized construction entrance - silt fence - sediment traps

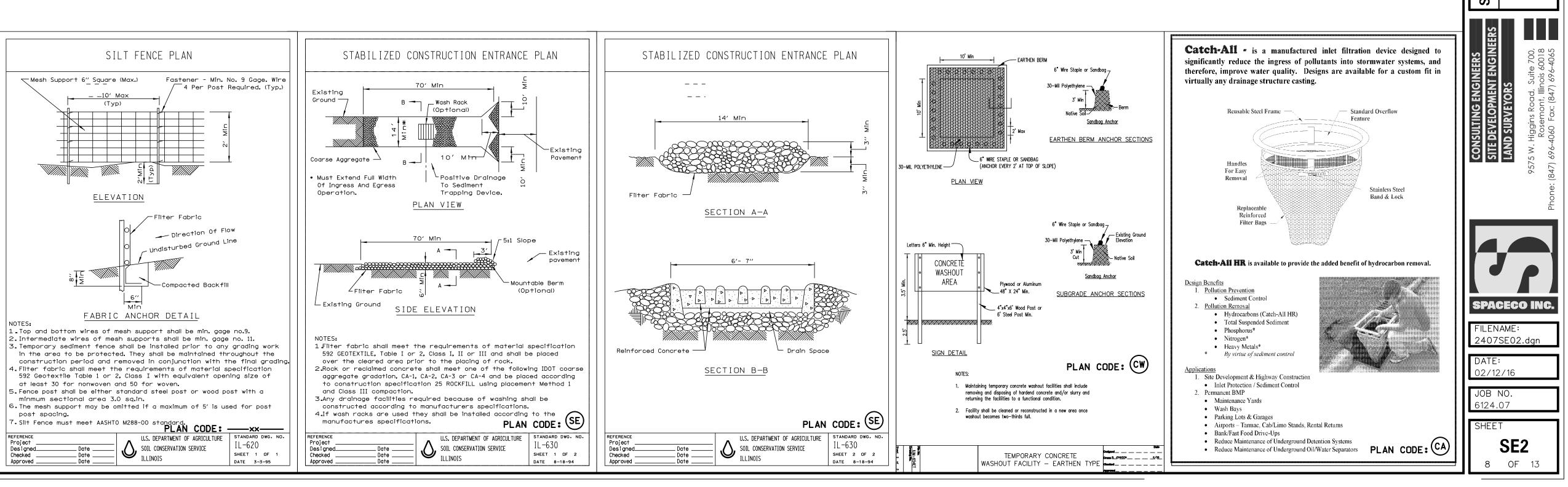
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- An effort should be made to store only enough product re All materials stored on site should be stored in a neat
- containers and adeauately protected from the environmen Products should be kept in their original containers wi
- Substances should not be mixed with one another unless r
- Operations should be observed as necessary to ensure pro on site.
- Whenever possible, all of a product should be used up be-Manufacturer's recommendations for proper use and dispose
- J. Management of Portable Sanitary Stations

If topsoil is to be stockpiled at the site, select a locati interfere with work on site. Topsoil stockpiles should not designated buffer protecting Waters of the State. During co should be stabilized or protected with sediment trapping mea fence, should be placed around the stockpile immediately. Stabilization of the stockpile should be completed if the stockpile is to remain undisturbed for longer than thirty days.

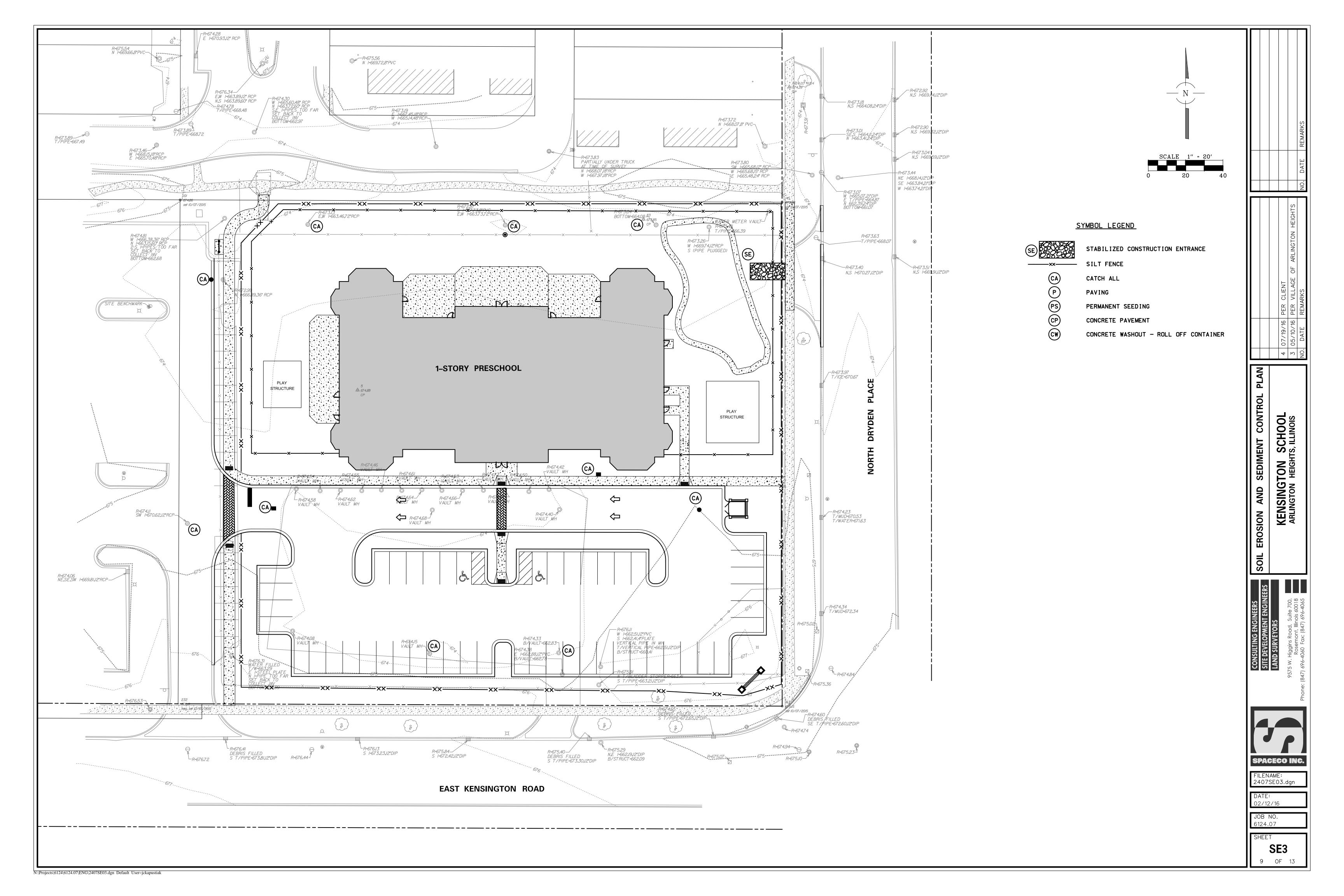
D. Storm Water Management Provided below is a description of measures that will be installed during the construction process to control the pollutants in storm water discharges that will occur after the construction operations have been completed.	0. Dust Control Dust control should be implemented on site as necessary. Repetitive treatment should be applied as needed to	STABILI TYPE
The installation of these devices may be subject to Section 404 of the Clean Water Act. 1) The practices selected for implementation were determined on the basis of technical guidance contained in IEPA's Illinois Urban Manual, Federal, State, and/or Local Requirements. The storm water management	accomplish control when temporary dust control measures are used. A water truck should be present on site (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.	PERMANE SEEDING DORMANT
measures include: - Fee-in-lieu stormwater detention - Permanent vegetation and native plantings	If field observations indicate that additional protection from wind erosion (in addition to, or in place of watering) is necessary, alternative dust suppressant controls should be implemented at the discretion and approval of the Engineer and/or Primary Contact.	SEEDING TEMPORA SEEDING
2) Velocity dissipation devices, such as rip-rap aprons at flared end sections or level spreaders, shall be placed	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 the direction of the Engineer and/or Primary Contact.	SODDING
at discharge locations and along the length of any outfall channel as necessary to provide a non-erosive velocity flow from the structure to a watercourse so that the natural, physical, and biological characteristics and functions are maintained and protected (e.g., maintenance of hydrologic conditions, such as the hydroperiod and hydrodynamics present prior to the initiation of construction activities).	3. MAINTENANCE Maintenance of the controls incorporated into this project should be performed as needed to assure their continued 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,	MULCHIN
E. Waste Management Solid waste materials including trash, construction debris, excess construction materials, machinery, tools and other items will be collected and disposed of off site by the contractor. The contractor is responsible to acquire the permit required for such disposal. Burning on site will not be permitted. No solid materials, including building materials,	erosion and sediment control measures and other protective measures identified in the SESC Plan and Standard Specifications. Dust control: When temporary dust control measures are used, repetitive treatment should be applied as needed to accomplish control.	
shall be discharged to Waters of the State, except as authorized by a Section 404 permit. All waste materials should be collected and stored in approved receptacles. No wastes should be placed in any location other than in the approved containers appropriate for the materials being discarded. There should be no liquid wastes deposited into dumpsters or other containers which may leak. Receptacles with deficiencies should be replaced as soon as possible and the appropriate	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 a sediment discharge. The bags should be inspected frequently and repaired or replaced as needed.	
clean-up procedure should take place, if necessary. Construction waste material is not to be buried on site. Waste disposal should comply with all Local, State, and Federal regulations. On-site hazardous material storage should be minimized and stored in labeled, separate receptacles from non-hazardous	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	
waste. All hazardous waste should be disposed of in the manner specified by Local or State regulation or by the manufacturer. F. Concrete Waste Management	of any sediment that has accumulated on the silt fence. Alternative sediment control measures should be considered 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	
Concrete waste or washout should not be allowed in the street or allowed to reach a storm water drainage system or watercourse. When practicable, a sign should be posted at each location to identify the washout. To the extent practicable, concrete washout areas should be located a reasonable distance from a storm water drainage inlet or watercourse, and should be located at least 10 feet behind the curb, if the washout area is adjacent to a paved road.	sediment of the public sheets. Mathematice includes top dressing with additional stoke and removing top tayers of stone and sediment. The sediment tracked onto the public right-of-way should be removed immediately. 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	
A stabilized entrance that meets Illinois Urban Manual standards should be installed at each washout area. The containment facilities should be of sufficient volume to completely contain all liquid and concrete waste materials including enough capacity for anticipated levels of rainwater. The dried concrete waste material should be picked up and disposed of properly when 75% capacity is reached. Hardened concrete can be properly recycled and	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, remove the structure and all unstable sediment. Grade the area to blend with the adjoining areas and stabilize properly.	
used again on site (as approved by the Engineer) or hauled off site to an appropriate landfill. G. Concrete Cutting	4. INSPECTIONS 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	
Concrete waste management should be implemented to contain and dispose of saw-cutting slurries. Concrete cutting should not take place during or immediately after a rainfall event. Waste generated from concrete cutting should be cleaned-up and disposed into the concrete washout facility as described above.	by the person who performed the inspection. The inspection report should be maintained on site as part of the SWPPP. Inspections should be conducted at least once every seven calendar days and within 24 hours	
H. Vehicle Storage and Maintenance When not in use, construction vehicles should be stored in a designated area(s) outside of the regulatory floodplain, away from any natural or created watercourse, pond, drainage-way or storm drain. Controls should be installed to minimize the potential of runoff from the storage area(s) from reaching storm	of the end of a storm event that is 0.5 inches or greater, or equivalent snowfall. Each inspection should include the following components:	
drains or water courses. Vehicle maintenance (including both routine maintenance as well as on-site repairs) should be made within a designated area(s) to prevent the migration of mechanical fluids (oil, antifreeze, etc.) into watercourses, wetlands or storm drains. Drip pans or absorbent pads should be used for all vehicle and equipment maintenance activities that involve grease, oil, solvents, or other vehicle fluids. Construction vehicles should be inspected frequently to identify any leaks; leaks should be repaired immediately or the vehicle should be removed from site. Dispose of all used oil, antifreeze, solvents and other vehicle-related	A. Disturbed areas and areas used for the storage of materials that are exposed to precipitation 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 inspected for off-site sediment tracking. All pumping operations and other potential non-storm	
chemicals in accordance with United States Environmental Protection Agency (USEPA) and IEPA regulations and per Material Safety Data Sheet (MSDS) and/or manufacturer instructions. Contractors should immediately report spills to the Primary Contact. I. Material Storage and Good Housekeeping	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	
Materials and/or contaminants should be stored in a manner that minimizes the potential to discharge into storm drains or watercourses. An on-site area should be designated for material delivery and storage. All materials kept on site should be stored in their original containers with legible labels, and if possible, under a	soon as practicable after the inspection. The modifications, if any, shall provide for timely implementation 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	
roof or other enclosure. Labels should be replaced if damaged or difficult to read. Bermed-off storage areas are an acceptable control measure to prevent contamination of storm water. MSDS should be available for referencing clean-up procedures. Any release of chemicals/contaminants should be immediately cleaned up and disposed of properly. Contractors should immediately report all spills to the Primary Contact, who should notify the appropriate agencies, if needed.	the inspection, the date(s) of the inspection, major observations relating to the implementation of the SWPPP, and actions taken in accordance with paragraph B. above should be made and retained as 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.	
To reduce the risks associated with hazardous materials on site, hazardous products should be kept in original containers unless they are not re-sealable. The original labels and MSDS should be retained on site at all times. Hazardous materials and all other material on site should be stored in accordance with manufacturer or MSDS specifications. When disposing of hazardous materials, follow manufacturer or Local and State recommended methods.	<u>epa.swnoncomp@illinois.gov</u> , telephone or fax within 24 hours of any incidence of noncompliance for any 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	
The following good housekeeping practices should be followed on site during the construction project:	and include specific information on the cause of non-compliance, actions which were taken to prevent any further causes of non-compliance, and a statement detailing any environmental impact, which may have resulted from the non-compliance.	
 An effort should be made to store only enough product required to do the job. All materials stored on site should be stored in a neat, orderly manner in their appropriate containers and adequately protected from the environment. 	 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. 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: 	
 Products should be kept in their original containers with the original manufacturer's label. Substances should not be mixed with one another unless recommended by the manufacturer. 	Illinois Environmental Protection Agency Division of Water Pollution Control Compliance Assurance Section	
 Operations should be observed as necessary to ensure proper use and disposal of materials on site. Whenever possible, all of a product should be used up before disposing of the container. 	1021 North Grand Avenue East Post Office Box 19276 Springfield, Illinois 62794-9276	
 Manufacturer's recommendations for proper use and disposal should be followed. J. Management of Portable Sanitary Stations 	5. NON-STORM WATER DISCHARGES Except for flows from fire fighting activities, possible sources of non-storm water that may be combined with storm water discharges associated with the proposed activity, are described below:	
To the extent practicable, portable sanitary stations should be located in an area that does not drain to any protected natural areas, Waters of the State, or storm water structures and should be anchored to the ground to prevent from tipping over. Portable sanitary stations located on impervious surfaces should be placed on top of a secondary containment device, or be surrounded	 Water used to wash vehicles where detergents are not used; Water used to control dust; 	
by a control device (e.g., gravel-bag berm). The contractor should not create or allow unsanitary conditions. Sanitary waste should be disposed of in accordance with applicable State and/or Local regulations.	 Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (unless spilled materials have been removed) and where detergents are not used; Irrigation ditches; Uncontaminated ground water; and, Foundation or footing drains where flows are not contaminated with process materials such as solvents; 	
K. Spill Prevention and Clean-Up Procedures Manufacturer's recommended methods for spill clean-up should be available and site personnel should be made aware of the procedures and the location of the information and clean-up supplies. Materials and equipment necessary for spill clean-up should be kept in the material storage area on site.	 Landscape irrigation drainages; uncontaminated air conditioning condensate. Pollution prevention measures should be implemented for non-storm water components of the discharge. 	
Equipment and materials should include, but are not limited to, brooms, dust pans, mops, rags, gloves, goggles, kitty litter, sand, sawdust and plastic and/or metal trash containers specifically for this purpose. Discharges of a hazardous substance or oil caused by a spill (e.g., a spill of oil into a separate storm sewer		
or Waters of the State) are not authorized by the ILR10 permit. If a spill occurs, notify the Primary Contact immediately. The construction site should have the capacity to control, contain, and remove spills, if they occur. Spills should be cleaned up immediately (after discovery) in accordance with MSDS and should not be buried on site or washed into storm sewer drainage inlets, drainage-ways, or Waters of the State.		
Spills in excess of Federal Reportable Quantities (as established under 40 CFR Parts 110, 117, or 302), should be reported to the National Response Center by calling (800) 424-8802. MSDS often include information on Federal Reportable Quantities for materials. Spills of toxic or hazardous materials should be reported to the appropriate State or Local government agency, as required. When cleaning up a spill, the area should be kept well ventilated and appropriate		
personal protective equipment should be used to minimize injury from contact with a hazardous substance. In addition to the good housekeeping and other management practices discussed in the previous sections of these Notes, the following minimum practices should be followed to reduce the risk of spills:		
 On-site vehicles should be monitored for leaks and should receive regular preventative maintenance to reduce the chance of leakage. Petroleum products should be stored in tightly sealed and clearly labeled containers. 		
 Contractors should follow the manufacturer's recommendations for proper use, storage, and disposal of materials. Excess materials should be disposed of according to the manufacturer's instructions or State and Local regulations, and should not be discharged to the storm sewer or waterbody. 		
L. De-Watering Operations During de-watering/pumping operations, only uncontaminated water should be allowed to discharge to protected natural areas, Waters of the State, or to a storm sewer system (in accordance with Local permits). Inlet hoses should be placed		
in a stabilized sump pit or floated at the surface of the water in order to limit the amount of sediment intake. Pumping operations may be discharged to a stabilized area that consists of an energy dissipating device (e.g., stone), sediment filter bag, or both. Adequate erosion controls should be used during de-watering operations as necessary. Stabilized conveyance channels should be installed to direct water to the desired location as applicable. Additional control measures may be installed at the outlet area at the discretion of the Primary Contact or Engineer.		
M. Off-Site Vehicle Tracking The site should have one or more stabilized construction entrances in conformance with the Plan details. Stabilized construction entrance(s) should be installed to help reduce vehicle tracking of sediments. Streets should be		
swept as needed to reduce excess sediment, dirt, or stone tracked from the site. Maintenance may include top dressing the stabilized entrance with additional stone and removing top layers of stone and sediment, as needed. Vehicles hauling erodible material to and from the construction site should be covered with a tarp.		
N. Topsoil Stockpile Management If topsoil is to be stockpiled at the site, select a location so that it will not erode, block drainage, or interfere with work on site. Topsoil stockpiles should not be located in the 100-year floodplain or designated buffer protecting Waters of the State. During construction of the project, soil stockpiles should be stabilized or protected with sediment trapping measures. Perimeter controls, such as silt fence, should be placed around the stockpile immediately. Stabilization of the stockpile should be completed if the stockpile is to compile undisturbed for longer than thirty days		

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	EARTHWORK NOTES		PA
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	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.	M T R B. W B C. P T D D. W B A E. F	ATERIALS ESTABLISHED BY THE OWNER AND/OR MUNIC HE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE EQUIREMENTS OF THE MUNICIPALITY. HEN REQUESTED BY THE OWNER, TEST RESULTS AND D
	SIGNING AND PAVEMENT MARKING	-	
1. 2. 3. 4. 5. 6. 7. 8. 9.	ALL SIGNING AND PAYEMENT MARKING SHALL BE IN ACCORDANCE WITH THE ILLINDIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (SSRBC). MUNICIPAL CODE AND THESE PLANS. CONTRACTOR SHALL ESTABLISH LOCATION OF ALL SIGNS AND MARKINGS FOR APPROVAL BY THE OWNER PRIOR TO INSTALLATION. SIGNS: SIGNS SHALL BE CONSTRUCTED OF 0.080 INCH THICK FLAT ALUMINUM PANELS WITH REFLECTORIZED LEGERD ON THE FACE IN ACCORDANCE WITH (SSRBC) SECTION 720. LEGEND SHALL BE IN ACCORDANCE WITH MUTCD AND AS SHOWN ON THE PLANS. POSTS: SIGN POSTS SHALL BE A HEAVY DUTY STEEL "U" SHAPED CHANNEL WEIGHING 3.0 POUNDS/FOOT SUCH AS A TYPE B METAL POST PER (SSRBC) SECTION 729 [OR: 2" PERFORATED STEEL TUBE PER (SSRBC) SECTION 728]. SIGNS AND POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE ABOVE (SSRBC) SECTIONS AND IDOT STANDARD 729001 EXCEPT AS MODIFIED BY THE PLANS. PAYEMENT MARKINGS: ALL PAVEMENT MARKINGS IN THE ROADWAY LIMITS, SUCH AS STOP LINES, CENTERLINES, CROSSWALKS AND DIRECTIONAL ARROWS SHALL BE REFLECTORIZED THERMOPLASTIC PER (SSRBC) SECTION 780. EXCEPT AS MODIFIED BY THE PLANS. INDIF ID ENGINEER: IDOT PREFERS REFLECTORIZED PAINT ON CONCRETE PAVEMENT - CHECK WITH AGENCY WHO WILL MAINTAIN ROAD.] PAVEMENT MARKINGS ON BIKE PATHS, PARKING LOT STALLS, AND SIMILAR "LOW WEAR" APPLICATION, SHALL BE PAINT IN ACCORDANCE TO (SSRBC) SECTION 780, EXCEPT AS MODIFIED BY THE PLANS. COLOR, WIDTH, STYLE, AND SIZE OF ALL MARKINGS SHALL BE IN ACCORDANCE WITH (MUTCD) EXCEPT AS MODIFIED. COLOR, WIDTH, STYLE, AND SIZE OF ALL MARKINGS SHALL BE IN ACCORDANCE WITH (MUTCD) EXCEPT AS MODIFIED BY THE PLANS. THERMOPLASTIC MARKINGS SHALL BE INSTALLED WHEN THE PAVEMENT TEMPERATURE IS 55° F AND RISING. PAINT MARKINGS MAY BE INSTALLED WHEN THE AIR TEMPERATURE IS 50° F AND RISING.		
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AVING NOTES SANITARY SEWER NOTES 1. GENERAL SANITARY SEWER PIPE SHALL BE PVC (POLYVINYL CHLORIDE) PLASTIC PIPE WITH A STANDARD DIMENSION RATIO (SDR) OF 26 CONFORMING TO ASTM D-3034 WITH PUSH-ON JOINTS CONFORMING TO ASTM D-3212 AND PVC (POLYVINYL CHLORIDE) PREPARATION AND COMPACTION; PLACEMENT OF SUB-BASE OR Α. R SURFACE COURSES; FORMING, FINISHING AND CURING PLASTIC PIPE WITH A STANDARD DIMENSION RATIO (SDR) OF 21 CONFORMING TO ASTM D-2241 WITH PUSH-ON JOINTS CONFORMING TO ASTM D-3139 AS SHOWN ON THE PLANS. PAYMENT SHALL BE MADE AT THE CLEAN-UP AND ALL RELATED WORK. 57 (MODIFIED PROCTOR)] SUB-GRADE = 93%; SUB-BASE = 93%; CONTRACT UNIT PRICE PER LINEAL FOOT OF SANITARY SEWER COMPLETE IN PLACE. ES = REFER TO SSRBC ARTICLE 406.07. SANITARY SEWER PIPE 18" AND LARGER, WHERE NOTED ON THE PLANS, OR WHERE THE IEPA MINIMUM THAT MATERIALS ARE PROPERLY PLACED AND COMPACTED. B۰ SEPARATION CANNOT BE MAINTAINED, SHALL BE ONE OF THE FOLLOWING: ITY TO PROVIDE PROPER BARRICADING, WARNING DEVICES AND A OF CONSTRUCTION. ALL SUCH DEVICES AND THEIR NUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION PLAN CODE DESCRIPTION DIP: DUCTILE IRON WATERMAIN QUALITY PIPE, CLASS 52, (ANSI 21.51) WITH MECHANICAL OR O-RING GASKETED JOINTS (ANSI 21.11). PVC: PRESSURE RATED PVC PIPE MEETING ASTM D-2241 WITH ASTM D-3139 GASKETED JOINT, SDR 26 "BAND-SEAL" OR SIMILAR FLEXIBLE TYPE COUPLINGS SHALL BE USED WHEN CONNECTING SEWER PIPES OF DISSIMILAR MATERIALS. "BAND-SEAL", "FERNCO", AND "MISSION" TYPE COUPLINGS SHALL NOT BE USED ON ANY SEWER MAIN. BE FINISHED TO WITHIN 0.1 FOOT, PLUS OR MINUS, OF C. HIMSELF THAT THE SUBGRADE HAS BEEN PROPERLY PREPARED BEEN GRADED WITHIN TOLERANCES ALLOWED IN THESE HE OWNER AND ENGINEER IN WRITING PRIOR TO FINE D. ALL SANITARY SEWERS ARE TO BE CONSTRUCTED USING A LASER INSTRUMENT TO MAINTAIN LINE AND GRADE. NDERSTOOD THAT HE HAS APPROVED AND ACCEPTS THE E. ALL FLOOR DRAINS SHALL CONNECT TO THE SANITARY SEWER. SUBGRADE MUST BE PROOF ROLLED AND INSPECTED FOR F. CONNECTIONS TO EXISTING SANITARY SEWER SYSTEM SHALL NOT BE DONE UNTIL AUTHORIZED BY THE MUNICIPALITY. THE SOILS ENGINEER SHALL CONDUCT AND THE VILLAGE SHALL ADE IS ENCOUNTERED, IT SHALL BE CORRECTED IN A MANNER APPROVED BY WATERMAINS SHALL BE SEPARATED FROM SANITARY SEWERS AND STORM SEWERS IN ACCORDANCE WITH IEPA CLUDE ONE OR MORE OF THE FOLLOWING METHODS: REQUIREMENTS AS SPECIFIED IN "WATER MAIN" SECTION. FILL. NO WATER LINE SHALL BE PLACED IN THE SAME TRENCH AS A SEWER LINE EXCEPT UNDER SPECIAL CIRCUMSTANCES AND H. THEN ONLY UNDER THE FOLLOWING RULES: AL. a) PERMISSION SHALL BE OBTAINED FROM THE MUNICIPAL ENGINEERING DEPARTMENT IN WRITING PRIOR TO MAY BE 1/4" TO 1/2" IF NO DEFLECTION OCCURS OVER THE BEGINNING CONSTRUCTION. 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. TER AND THE PLACEMENT OF THE BASE MATERIAL, THE 0.04 FEET (1/2") OF FINAL SUBGRADE ELEVATION, TO A POINT TWO SURE THE PROPER THICKNESS OF PAVEMENT COURSES. NO CLAIMS 2. BEDDING: IMPROPER SUBGRADE PREPARATION WILL BE HONORED. BEDDING SHALL CONSIST OF A MINIMUM OF FOUR (4") INCHES OF COMPACTED CRUSHED GRAVEL OR STONE, GRADATION NO. CA-11 OR CA-13. 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 LINE FOR DIP. THE BEDDING AND COVER MATERIAL SHALL BE ASTM D-2321 CLASS II FOR PVC PIPE AND ASTM D-448 SIZE 67 FOR DIP PIPE. THE COST OF Α. BGRADES MUST BE APPROVED BY THE MUNICIPAL THE BEDDING AND COVER SHALL BE MERGED WITH THE UNIT PRICE BID FOR THE SEWER. ALL UNSUITABLE MATERIAL SHALL BE REMOVED BELOW THE PROPOSED SANITARY SEWER AND REPLACED WITH Β. NT CONCRETE CLASS SI OR PV PER (SSRBC) SECTION 1020.04 5%) OR MORE THAN EIGHT (8%) PERCENT. CONCRETE SHALL BE OP A MINIMUM OF 3,500 PSI COMPRESSIVE STRENOTH AT FOURTEEN SHED PERPENDICULAR TO THE DIRECTION OF TRAVEL. THE ADDITION FLY ASH FOR PORTLAND CEMENT IS PROHIBITED. 1.50 Ibs OF COLLATED, O TO 0.75 INCHES IN LENGTH SHALL BE ADDED TO EACH CUBIC YARD OF LL BE AS MANUFACTURED UNDER THE NAME "FIBERMESH" OR EQUAL. COMPACTED CA-6 CRUSHED GRAVEL OR STONE. ALL TRENCHES BENEATH PROPOSED OR EXISTING UTILITIES, PAVEMENTS, ROADWAYS, SIDEWALKS, AND FOR A DISTANCE OF FIVE (5′) FEET ON EITHER SIDE OF SAME, AND/OR WHERE SHOWN ON THE PLANS, SHALL BE BACKFILLED WITH SELECT GRANULAR BACKFILL (CA-6) AND THOROUGHLY MECHANICALLY COMPACTED IN 9″ THICK (LOOSE MEASUREMENT) LAYERS, JETTING WITH WATER IS NOT PERMITTED. REFER TO THE TRENCH BACKFILL LIMITS DETAIL. TER SHALL BE OF THE TYPE SHOWN ON THE PLANS. THE 3. MANHOLES: RUCTION STANDARDS AND THE PAVEMENT CROSS-SECTION RE AGGREGATE BASE COURSE THICKNESS BENEATH THE CURB WITH TWO 3/4" X 18" EPOXY COATED STEEL DOWEL BARS, SHALL AT ALL PC'S, PT'S AND CURB RETURNS, ALTERNATE ENDS OF THE RETAL EXPANSION TUBES, SAWED OR FORMED CONTRACTION RETAL EXPANSION TUBES, SAWED OR FORMED CONTRACTION SANITARY SEWER MANHOLES SHALL BE 4'-O" I.D. PRECAST CONCRETE SECTIONS CONFORMING TO 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. Α. TEEN (15) FOOT INTERVALS BETWEEN EXPANSION JOINTS. NO 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. UBLIC WALKS/PEDESTRIAN PATHS INTERSECT CURB LINES, AND 4. FRAMES AND LIDS: PROVIDING ACCESSIBILITY. (SEE CONSTRUCTION STANDARDS ESSED AT DRIVEWAY LOCATIONS. ALL SANITARY SEWER MANHOLE FRAMES AND LIDS SHALL BE NEENAH R-1712 UNLESS OTHERWISE NOTED ON THE PLANS, THE LIDS SHALL HAVE RECESSED (CONCEALED) PICK HOLE AND BE SELF SEALING WITH AN "O" RING GASKET, THE LIDS SHALL HAVE THE WORDS "SANITARY" EMBOSSED ON THE SURFACE, THE JOINTS BETWEEN FRAME AND CONCRETE SECTION SHALL BE SEALED WITH A BUTYL ROPE. Α. STRUCTION AND PRIOR TO THE PLACEMENT OF THE BASE SEVEN DAYS BEFORE THE CURBS ARE BACKFILLED. THE ABOVE AND THE PLANS. PROVIDE SCORED JOINTS AT 5 B. A MAXIMUM OF EIGHT (8) INCHES OF CONCRETE ADJUSTING RINGS SHALL BE USED TO ADJUST FRAME ELEVATIONS. RINGS SHALL BE SEALED TOGETHER WITH BUTYL ROPE. NSION JOINTS AT 50 FOOT INTERVALS, AND ADJACENT TO CE WITH THE ABOVE AND THE PLANS. PROVIDE 6" X 6" NO. PREMOLDED FIBER EXPANSION JOINT 5. DROP MANHOLE ASSEMBLIES: OVIDE SAWED OR FORMED CONTRACTION JOINT AT MID-POINT DROP MANHOLE ASSEMBLIES: DROP MANHOLE ASSEMBLIES SHALL BE PROVIDED AT THE JUNCTION OF SANITARY SEWERS WHERE THE DIFFERENCE IN INVERT GRADES IS TWO FEET (2′) OR MORE, OR AS SHOWN ON THE PLANS. THE ENTIRE DROP IN ACCORDANCE WITH THE ABOVE AND THE PLANS. SAWED ASSEMBLY SHALL BE CAST IN CONCRETE MONOLITHICALLY WITH THE MANHOLE BARREL SECTION. BE AS SHOWN ON THE PLANS. CORDANCE WITH (SSRBC) - METHOD I, II, OR III. 6. CLEANING: ALL MANHOLES AND PIPES SHALL BE THOROUGHLY CLEANED OF DIRT AND DEBRIS, AND ALL VISIBLE LEAKAGE ELIMINATED, BEFORE FINAL INSPECTION AND ACCEPTANCE. CONCRETE WORK SHALL BE INCLUDED IN THE COST OF THE Α. 7. TESTING: , PARKING LOTS, DRIVEWAYS, SIDEWALKS AND PATHS HERWISE SHOWN ON THE PLANS, THE FLEXIBLE PAVEMENTS SHALL A. DEFLECTION AND LEAKAGE TESTING WILL BE REQUIRED. THE PROCEDURE AND ALLOWABLE TESTING LIMITS SHALL BE AS SPECIFIED IN THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", OR MUNICIPAL CODES. IN THE EVENT OF A DISCREPANCY BETWEEN THE STANDARD SPECIFICATIONS AND THE MUNICIPAL CODE. THE MUNICIPAL CODE SHALL GOVERN. THE FULL LENGTH OF THE SANITARY SEWER IS REQUIRED TO BE BOTH AIR TESTED AND JMINOUS CONCRETE BINDER COURSE; AND BITUMINOUS CONCRETE SPECIFIED ON THE PLANS. THICKNESSES SPECIFIED SHALL BE ESS. THE PAVING IS TO BE DONE IN ACCORD WITH THE STANDARD DEFLECTION TESTED. ON IN ILLINOIS. B. TESTING THE ALIGNMENT/STRAIGHTNESS SHALL BE IN ACCORDANCE WITH MUNICIPAL CODE. GGREGATE BASE UNTIL THE BINDER COURSE IS LAID. THE D AT A RATE OF 0.4 TO 0.5 GALLONS PER SQUARE YARD PRIOR C. TESTING OF MANHOLES TO BE IN ACCORDANCE WITH ASTM 969. ERIALS SHALL BE BITUMINOUS M.C. - 30. BINDER COURSE SHALL BE CLEANED, AND TACK COATED IF 8. TELEVISING: DER, BASE OR CURB SHALL BE REPAIRED TO THE SATISFACTION SE. THE CONTRACTOR SHALL PROVIDE WHATEVER EQUIPMENT ALL SANITARY SEWERS SHALL BE TELEVISED AND A COPY OF THE TAPE /DVD AND A WRITTEN REPORT SHALL BE SUBMITTED AND REVIEWED BY THE OWNER OR MUNICIPALITY 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 BOTH VERBALLY AND ON-SCREEN USING MANHOLE NUMBERS FROM APPROVED PLANS. ORDER OF WRITTEN REPORT SHALL BE THE OWER BROOMS IF REQUIRED BY THE OWNER, TO PREPARE OURSE. THE TACK COAT SHALL BE UNIFORMLY APPLIED TO THE INS PER SQUARE YARD. TACK COAT SHALL BE AS SPECIFIED IN SAME AS THE VIDEO TAPES/DVDS. L BE STAGGERED A MINIMUM OF 6". 9. TEST RESULTS: THE BITUMINOUS CONCRETE BINDER COURSE TO IF THE SANITARY SEWER INSTALLATION FAILS TO MEET THE TEST REQUIREMENTS SPECIFIED, THE CONTRACTOR SHALL DETERMINE THE CAUSE OR CAUSES OF THE DEFECT AND SHALL, AT HIS OWN EXPENSE, REPAIR OR STALLATION OF THE BITUMINOUS CONCRETE SURFACE Α. CIPAL ENGINEER OR OWNER. REPLACE ALL MATERIALS, AND WORKMANSHIP AS MAY BE NECESSARY TO COMPLY WITH THE TEST REQUIREMENTS. 10. CERTIFICATION: TESTING PROGRAM FOR CONCRETE AND PAVEMENT CONTRACTOR SHALL SUBMIT CERTIFIED COPIES OF ALL REPORTS OF TESTS CONDUCTED BY AN INDEPENDENT LABORATORY BEFORE INSTALLATION OF PVC PLASTIC PIPE. TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH STANDARD METHOD OF TEST FOR "EXTERNAL LOADING PROPERTIES OF PLASTIC PIPE BY PARALLEL PLATE LOADING". ASTM STANDARDS D-2412 OR D-2241 AS APPROPRIATE FOR THE PIPE TO BE USED. TESTS SHALL ALSO BE CONDUCTED CIPALITY. TESTING SHALL BE DONE IN ACCORD WITH E CONSTRUCTION IN ILLINOIS AND THE TESTING DOCUMENTATION FOR THE CONCRETE, BASE COURSE, DURSE, SHALL BE SUBMITTED FOR VERIFICATION. TO DEMONSTRATE JOINT PERFORMANCE AT 5% MAXIMUM DIAMETRIC DEFLECTION OF THE SPIGOT. SURFACE COURSE, THE CONTRACTOR, WHEN REQUIRED BY 11. RECORD DRAWINGS: IENS OF THE BINDER COURSE WITH A CORE DRILL WHERE THE CONTRACTOR SHALL PROVIDE ALL INFORMATION TO PREPARE RECORD DRAWING(S) INCLUDING SERVICE STUB LOCATIONS, TO SPACECO. SPACECO SHALL PREPARE RECORD DRAWINGS AND SUBMIT TO APPROPRIATE PUBLIC AGENCIES. IF FINAL MEASUREMENTS INDICATE DEFICIENCIES, THE CONTRACTOR, AT HIS OWN COST, WILL ADJUST MANHOLES AND/OR SEWERS TO PROPER ELEVATIONS AND OTHERWISE CORRECT THE DEFICIENCIES. E CONTRACTOR SHALL OBTAIN SPECIMENS OF THE FULL DEPTH A CORE DRILL WHERE DIRECTED, IN ORDER TO CONFIRM THE HALL BE ADJUSTED FOR BY THE METHOD DESCRIBED IN (SSRBC), LATION SHALL BE SUBJECT TO THE TESTING AND CHECKING

1. GENERAL:

STORM SEWER NOTES

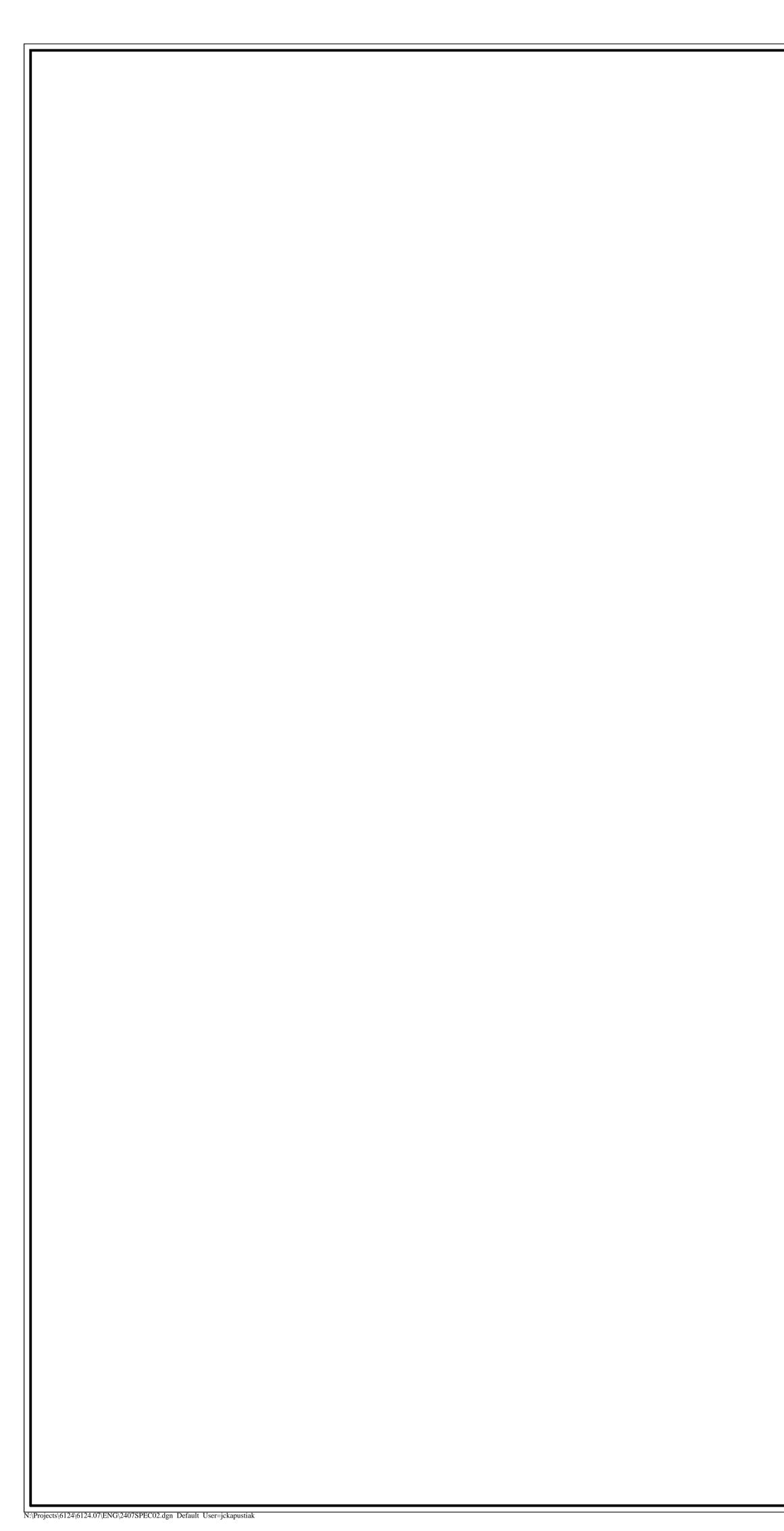
A. ALL STORM SEWER PIPE SHALL BE RCP, UNLESS OTHERWISE NOTED ON THE PLANS, IN ACCORDANCE WITH THE FOLLOWING: PLAN CODE: MATERIAL RCP: REINFORCED CONCRETE PIPE (ASTM C-76) WITH O-RING GASKETED JOINTS, (ASTM C-443); TYPE 1, CLASS IV, PER SSRBC SECTION 603. ELLIPTICAL RCCP PIPE SHALL BE TYPE 1, HE-III PER SSRBC SECTION 511. PRECAST FLARED END SECTIONS MAY HAVE MASTIC JOINTS. PAYMENTS SHALL BE MADE AT THE CONTRACT UNIT PRICE PER LINEAR FOOT

OF STORM SEWER COMPLETE IN PLACE. DIP: DUCTILE IRON WATERMAIN QUALITY PIPE CLASS 52 (ANSI 21.51) WITH MECHANICAL OR PUSH-ON JOINTS (ANSI 21.11). CEMENT LINING IS NOT REQUIRED. PVC: POLYVINYL CHLORIDE SEWER PIPE, SDR 26, CONFORMING TO ASTM D-3034 WITH ASTM D-3212 PUSH-ON GASKETED JOINTS.

- BAND SEAL" OR SIMILAR COUPLINGS SHALL BE USED WHEN JOINING SEWER PIPES OF DISSIMILAR MATERIALS. "BAND SEAL", "FERNCO", AND "MISSION" TYPE COUPLINGS SHALL NOT BE USED ON SEWER MAINS. CHANGES IN PIPE MATERIAL SHALL BE MADE AT A STRUCTURE.
 ALL STORM SEWERS ARE TO BE CONSTRUCTED USING A LASER INSTRUMENT TO MAINTAIN LINE AND GRADE.
- D. ALL FOOTING DRAIN AND SUMP PUMP DISCHARGE PIPES SHALL BE CONNECTED TO THE STORM SEWER SYSTEM. DOWNSPOUTS SHALL DISCHARGE TO THE GROUND.
- E. THE CONTRACTOR SHALL MAINTAIN AT LEAST THREE (3') FEET OF COVER OVER THE TOP OF SHALLOW 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.

STORM SEWER NOTES		
 2. BEDDING: A. ALL STORM SEWERS SHALL BE INSTALLED ON A TYPE A GRANULAR BEDDING, 1/4" TO 3/4" IN SIZE (CA-13) WITH A MINIMUM THICKNESS EQUAL TO 1/4 THE OUTSIDE DIAMETER OF THE SEWER PIPE BUT NOT LESS THAN 4". BLOCKING OF ANY KIND FOR GRADE IS NOT PERMITTED. THE BEDDING MATERIALS SHALL BE COMPACTED TO 90% OF MODIFIED PROCTOR DENSITY. BEDDING SHALL EXTEND TO THE SPRINGLINE ON ALL RCP AND DIP PIPE. BEDDING SHALL EXTEND TO 12" OVER ANY PVC OR HDPE PIPE. COST OF BEDDING SHALL BE CONSIDERED INCIDENTAL TO THE COST OF PIPE. NO SEPERATE PAYMENT SHALL BE MADE FOR THIS. 		
 STRUCTURES: MANHOLE, CATCH BASIN AND INLET BOTTOMS SHALL BE PRECAST CONCRETE SECTIONAL UNITS OR MONOLITHIC CONCRETE. MANHOLES AND CATCH BASINS SHALL BE A MINIMUM 4' IN DIAMETER UNLESS OTHERWISE SPECIFIED ON THE PLANS. STRUCTURE JOINTS SHALL BE SEALED WITH O-RING OR BUTYL ROPE. A MAXIMUM OF EIGHT (8") INCHES OF ADJUSTING RINGS SHALL BE USED. B. A CONCRETE BENCH TO DIRECT FLOWS SHALL BE CONSTRUCTED IN THE BOTTOM OF ALL INLETS AND MANHOLES. 		RKS SKS
 C. THE FRAME, GRATE, AND/OR CLOSED LID SHALL BE CAST IRON OF THE STYLE SHOWN ON THE PLANS. D. MANHOLE LIDS SHALL BE MACHINE SURFACED, NON-ROCKING DESIGN. THE CLOSED LIDS SHALL HAVE THE WORD "STORM" CAST ON THE LID. THE JOINTS BETWEEN CONCRETE SECTION ADJUSTING RINGS, AND FRAME SHALL BE SEALED WITH A MASTIC COMPOUND. 		E REMARKS
		NO. DAT
 CASTINGS: A. CASTINGS FOR SEWER OR OTHER STRUCTURES SHALL BE "NEENAH" OR APPROVED EQUAL. COST OF CASTINGS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE STRUCTURE. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS ITEM. 5. CLEANING: 		
 A. THE STORM SEWER SYSTEM SHALL BE THOROUGHLY CLEANED PRIOR TO FINAL INSPECTION AND TESTING. 6. TELEVISING: 		
A. THE STORM SEWER SYSTEM SHALL BE TELEVISED IF REQUIRED BY MUNICIPALITY.		
WATERMAIN NOTES		
 PIPE MATERIALS: WATERMAINS OR SERVICES 3" OR LARGER IN DIAMETER SHALL BE CONSTRUCTED OF BITUMINOUS COATED, CEMENT LINED DUCTILE IRON PIPE, CLASS 52, CONFORMING 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). 		REMARKS
 2. FITTINGS: A. ALL FITTINGS SHALL BE CAST-IRON, WITH MECHANICAL JOINTS AND "MEGALUG" RETAINER GLANDS, AND CEMENT LINED PER ANSI A21.4. COST OF FITTINGS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE PIPE. B. ALL DUCTILE IRON WATERMAIN AND FITTINGS SHALL BE WRAPPED IN 8-MIL POLYETHYLENE WRAP. ALL MECHANICAL JOINT FITTINGS SHALL USE STAINLESS STEEL NUTS AND BOLTS. CONTINUITY WEDGES SHALL BE PROVIDED ON ALL WATERMAINS. PAYMENT SHALL BE MADE AT THE CONTRACT UNIT PRICE PER LINEAL FOOT OF WATERMAIN COMPLETE IN PLACE. 		NO. DATE
3. WATER SERVICES: A. WATER SERVICE PIPE, 2" IN DIAMETER OR SMALLER, SHALL BE TYPE K COPPER WATER TUBING, CONFORMING TO ASTM B-88 AND B-251, WITH COMPRESSION OR FLARED JOINTS.		
 4. VALVES: A. GATE VALVES SHALL BE USED ON ALL WATERMAIN 3" AND LARGER. 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 HAVE MECHANICAL JOINTS. B. THE MECHANICAL JOINTS AND ALL FASTENERS ON THE VALVE BODY SHALL HAVE STAINLESS STEEL NUTS AND BOLTS. 	-	CHOOL
5. VALVE VAULTS: A. VALVE VAULTS SHALL BE PRECAST CONCRETE STRUCTURES AS NOTED ON THE PLANS. THE FRAME AND LID SHALL BE NEENAH R-1712, OR EQUAL, WITH "WATER" EMBOSSED ON THE LID.	- SNO	S t l
 6. FIRE HYDRANTS: A. FIRE HYDRANTS SHALL CONFORM TO AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARD NO. C-502, LATEST REVISION, AND SHALL BE A MODEL SHOWN ON THE PLANS AND APPROVED BY THE MUNICIPALITY. FIRE HYDRANTS SHALL BE INSTALLED WITH AN AUXILIARY VALVE AND CAST IRON VALVE BOX. THE PUMPER CONNECTION SHALL FACE ROADWAY. B. DROWIDE THE DODS FROM THE MAINLINE TEE TO THE AUXILIARY VALVE. AND RETWEEN THE AUXILIARY VALVE AND 	CIFICATIONS	LD Z
 B. PROVIDE THE RODS FROM THE MAINLINE TEE TO THE AUXILIARY VALVE, AND BETWEEN THE AUXILIARY VALVE AND HYDRANT BARREL WHERE NOT BOLTED TOGETHER. C. THE BREAK FLANGE AND ALL BELOW GRADE FITTINGS SHALL HAVE STAINLESS STEEL NUTS AND BOLTS. D. FIRE HYDRANT LEADS FROM THE WATERMAIN TO THE FIRE HYDRANT SHALL BE A MINIMUM DIAMETER OF 8" 	SPEC	KENSIN Arlingto
 CORPORATION STOPS: CORPORATION STOPS SHALL BE BRONZE BODY KEY STOPS CONFORMING TO AWWA C-800, AND SHALL INCLUDE "J" BEND, TAIL PIECE, AND COMPRESSION FITTINGS. SIZE AND LOCATION AS SHOWN ON PLANS. TAPPING SADDLES SPECIFICALLY DESIGNED FOR USE WITH PVC PIPE SHALL BE IN CONJUCTION WITH THE CORPORATION STOP. 		
 8. SERVICE BOX: A. 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. B. MAXIMUM DEFLECTION AT PIPE JOINTS SHALL BE IN ACCORDANCE WITH PIPE MANUFACTURER'S CURRENT RECOMMENDATIONS AND AWWA SPECIFICATIONS. 	ERS	
9. BEDDING: A. ALL DUCTILE IRON WATERMAIN SHALL HAVE COARSE SAND BEDDING EXTENDED TO AT LEAST SIX INCHES (6") ABOVE THE TOP OF THE PIPE. COST OF BEDDING SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THIS PIPE. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS ITEM.	HEERS ENGINE	S Suite 700, nois 60018 1 696-4065
 B. GRANULAR BEDDING MATERIAL OR GRANULAR BACKFILL MATERIAL SHALL BE CAREFULLY PLACED TO 12" OVER THE TOP OF THE PIPE BEFORE FINAL BACKFILLING AND COMPACTION. C. A MINIMUM DEPTH OF COVER OF 5'-6" SHALL BE MAINTAINED OVER THE WATER LINES. THE MAXIMUM COVER SHALL BE EIGHT (8') FEET EXCEPT AT SPECIAL CROSSINGS. 	CONSULTING ENGIN	LAND SURVEYORS 575 W. Higgins Road, ' Rosemont, Illin 7) 696-4060 Fax: (847)
D. CONCRETE THRUST BLOCKING SHALL BE INSTALLED ON WATERMAIN AT ALL BENDS, TEE, ELBOWS, ETC.	CON	
 A. HORIZONTAL SEPARATION MATERMAINS SHALL BE LAID AT LEAST TEN FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED DRAIN, STORM SEWER, SANITARY SEWER OR SEWER SERVICES CONNECTION. MATERMAINS MAY BE LAID CLOSER THAN TEN FEET TO A SEWER LINE WHEN:		957 Phone: (847)
 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. c) BOTH THE WATERMAIN AND DRAIN OR SEWER SHALL BE CONSTRUCTED WITH PIPE EQUIVALENT TO WATERMAIN STANDARDS OF CONSTRUCTION WHEN IT IS IMPOSSIBLE TO MEET (a) OR (b) ABOVE. THE DRAIN OR SEWER SHALL BE PRESSURE TESTED TO THE MAXIMUM EXPECTED SURCHARGE HEAD BEFORE BACKFILLING. B. VERTICAL SEPARATION 		
 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 TEN FEET HORIZONTALLY OF ANY SEWER OR DRAIN CROSSED. A 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 	SPA	CECO INC.
 STANDARDS OF CONSTRUCTION WHEN: IT IS IMPOSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION AS DESCRIBED IN (d) ABOVE; OR 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 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. C) CONSTRUCTION SHALL EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE NORMAL DISTANCE FORM THE WATERMAIN THE DRAIN LINES TO PREVENT STATE IS A LEAST TEN FEET 		SPEC01.dgn :
WATERMAIN TO THE SEWER OR DRAIN LINE IS AT LEAST TEN FEET. 11. TESTING: A. ALL WATERMAINS SHALL BE PRESSURE TESTED, FLUSHED AND DISINFECTED IN ACCORDANCE WITH AWWA AND MUNICIPAL	JOB 6124.	NO.
 ALL WATERMAINS SHALL BE PRESSURE TESTED, FLOSHED 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 SEWER AND WATERMAIN CONSTRUCTION IN ILLINOIS. AT NO TIME IS THERE TO BE ANY VISIBLE LEAKAGE FROM THE MAIN. B. BRASS WEDGES BETWEEN WATERMAIN PIPE JOINTS SHALL BE REQUIRED. C. CONTRACTOR IS RESPONSIBLE FOR PRESSURE TESTING AGAINST EXISTING WATER VALVES. 	SHEE	

10 OF 13



		NO. DATE REMARKS
		NO. DATE REMARKS
 MWRD TYPICAL GENERAL NOTES 1. THE MWRD LOCAL SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK (CALL 708-588-4055). 2. ELEVATION DATUM IS U.S.G.S. 3. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM. 4. NO DOWNSPOUTS AND FOOTING DRAINS. 5. ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO: PIPE MATERIAL SPEC. JOINT SPEC. WOR C-425 	SPECIFICATIONS – 2	KENSINGTON SCHOOL ARLINGTON HEIGHTS, ILLINOIS
THE DISTRICT IF CONSIDERING USING PIPE NOT LISTED ABOVE.)	CONSULTING ENGINEERS SITE DEVELOPMENT ENGINEERS	9575 W. Higgins Road, Suite 700, Rosemont, Illinois 60018 hone: (847) 696-4060 Fax: (847) 696-4065
 G. ALL SANITARY SEWER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS). REQUIRES STONG BEDDING WITH STONE 'A' TO 1' IN SIZE, WITH MINIMUM BEDDING THICKRESS EQUAL TO 'A' THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (A) INCHES NOR MORE THAN EIGHT (B) INCHES, MATERIAL SHALL BE CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12" ABOVE THE TOP OF THE PIPE WHEN USING PVC. 7. "BAND SEAL" OR SIMILAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSINLAR MATERIALS. 8. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAT AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED: 1. CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SHEWER-TAP" MACHINE OR SIMILAR') AND PROPER INSTALLATION OF HUBWYESADDLE OR HUB-TEE SADDLE. 2. REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION. 3. WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING "BAND SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE. 3. WHENEVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATERMAIN. THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE IN INCHESS HARD THE THE WER TRANCH SECONTAL DISTANCE OF OLD A FEET BETWEEN SANITARY/COMBINED SEWERS AND WATERMAINS SHALL BE MAINTAINED UNLESS: 1. HENEVER A SANITARY/COMBINED SEWER TO THE BOTTOM OF THE WATERMAIN. SHALL BE MAINTAINED UNLESS: 1. HENEVER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER CROSSES DESCRIBED ABOVE CAN NOT BE MAINTAINED. FE THEM THE VERTICAL OF HORSIES DESCRIBED ABOVE THE WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BEENCH OF HORIZONTAL DISTANCES DESCRIBED ABOVE CAN NOT BE CONSTRUCTED TO WATERMADS. 10. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAME	FILEN 24073 DATE: 02/12 JOB N 6124.	AME: SPECO2.dgn /16

