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CHICAGO TUBE DRIVE ROMEOVILLE, ILLINOIS





STORM WATER DRAINAGE CER

STATE OF ILLINOIS) SS.

COUNTY OF DuPAGE)

I, ALGIS J. RUGIENIUS, A REGIS STORAGE AND DRAINAGE CAPA DEVELOPMENT WILL NOT BE DIV ONE HUNDRED (100) YEAR EVEN VILLAGE ORDINANCES. .

SOIL EROSION PLAN CERTIFICA

STATE OF ILLINOIS) SS.

COUNTY OF DuPAGE)

I, ALGIS J. RUGIENIUS, A REGIS WAS PREPARED BY ME OR UND STANDARDS IN ILLINOIS (LATES

PREPARED FOR NATIONAL EXPRESS CARRIERS, INC. **273 MARQUETTE DR. BOLINGBROOK, IL 60440**

EXISTING UTILITIES

NOTICE TO CONTRACTORS

WHEN THE PLANS OR SPECIAL PROVISIONS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF OVERHEAD AND/OR UNDERGROUND UTILITY FACILITIES, SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE ENGINEER AS TO THE LOCATION OF SUCH UTILITIES AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDER. THE ENGINEER AND THE OWNER ASSUME NO RESPONSIBILITY WHATSOEVER IN RESPECT TO THE SUFFICIENCY OR VERACITY OF THE INFORMATION SHOWN ON THE PLANS RELATIVE TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES OR THE MANNER IN WHICH THEY ARE TO BE REMOVED OR ADJUSTED. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES. HE SHALL ALSO OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULES OF THE UTILITY COMPANIES FOR REMOVING OR ADJUSTING THEM.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL PUBLIC AND PRIVATE UTILITY COMPANIES WHICH MAY HAVE OVERHEAD OR UNDERGROUND FACILITIES IN THE AREA BEFORE CONSTRUCTION BEGINS (SEE SPECIFICATIONS)

ENGINEER'S CERTIFICATION

STATE OF ILLINOIS) SS.

COUNTY OF DuPAGE)

I, ALGIS J. RUGIENIUS, A REGIS BY MORRIS ENGINEERING, INC. SUBMISSION IS INTENDED TO B FURTHER STATE THAT THE PRC PROPERTIES.

PROJECT PINS: 11-04-08-301-002-0000 11-04-08-301-003-0000 11-04-08-301-004-0000 11-04-08-301-005-0000						
INDEX OF SHEETS1.COVER SHEET2.GENERAL NOTES3.GRADING PLAN4.PAVING AND SIGNAGE PLAN5.UTILITIES PLAN6.LANDSCAPING PLAN7-9.EROSION CONTROL PLAN10.SWPPP PLAN		RESUBMITTAL TO VILLAGE	RESUBMITTAL TO VILLAGE			
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IERED PROFESSIONAL ENGINEER OF ILLINOIS, HEREBY CERTIFY THAT THIS EROSION CONTROL PLAN DER MY DIRECT SUPERVISION, AND COMPLIES WITH THE URBAN SOIL EROSION CONTROL AND TEDITION) AND THE GENRALLY RECOGNIZED METHODS IN USE IN THE AREA. DATED THIS <u>16TH</u> DAY OF <u>AUGUST</u> , A.D. 20 <u>18</u> ILLINOIS REGISTERED PROFESSIONAL ENGINEER NO. 062-047342 MY REGISTRATION EXPIRES ON NOVEMBER 30, 2019						BETTER INFRASTRULIURE BETTER ENVIRONMENTS BETTER LIFE!
TERED PROFESSIONAL ENGINEER OF ILLINOIS, HEREBY CERTIFY THAT THESE PLANS WERE PREPARED 515 WARRENVILLE ROAD, LISLE, ILLINOIS, 60532 UNDER MY PERSONAL DIRECTION. THIS TECHNICAL E USED AS AN INTEGRAL PART OF AND IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS. I DPOSED IMPROVEMENTS WILL NOT CAUSE PONDING OR FLOODING ON THE PROPERTY OR ADJACENT DATED THIS <u>16TH</u> DAY OF <u>AUGUST</u> , A.D. 20 18	FIEL DRA CHE APP DATI	D CRE WN BY CKED ROVED E: LE:	BY: BY: BY: BY: S	$\frac{1}{2}$)B JS F /2018 – -	

ILLINOIS REGISTERED PROFESSIONAL ENGINEER NO. 062-047342 MY REGISTRATION EXPIRES ON NOVEMBER 30, 2019

OF<u>13</u>SHEETS

PROJ # 17-PR-1002

GENERAL NOTES

- ALL EARTHWORK, GRADING, UTILITIES, AND STREET IMPROVEMENTS WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAY'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN LLINOIS, AND ALL REVISIONS THERETO.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND HEALTHFUL WORKING CONDITIONS IN ACCORDANCE WITH SECTION 107 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION THROUGHOUT THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
- SOIL EROSION AND SEDIMENTATION CONTROL PRACTICES AND DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE URBAN COMMITTEE OF THE ASSOCIATION OF ILLINOIS SOIL AND WATER CONSERVATION DISTRICTS' PROCEDURES AND STANDARDS FOR URBAN SOIL EROSION AND SEDIMENTATION CONTROL IN ILLINOIS AND ALL REVISIONS THERETO AND IN ACCORDANCE WITH THE DETAILS ON THE PLANS.
- 4. THE CONTRACTOR SHALL BE AWARE OF POTENTIAL CONFLICTS WITH EXISTING UTILITIES AS INDICATED ON THE PLANS. THE CONTRACTOR SHALL EXCAVATE AROUND UTILITIES TO DETERMINE ELEVATIONS BEFORE BEGINNING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING EACH OF THE UTILITY COMPANIES BEFORE ANY WORK COMMENCES. ALL UTILITIES SHALL BE STAKED PRIOR TO CONSTRUCTION.
- THE OWNER WILL FURNISH THE CONTRACTOR WITH LINES, GRADES AND ELEVATIONS NECESSARY TO THE PROPER PROSECUTION AND CONTROL OF THE WORK ONCE.
- THE CONTRACTOR SHALL GIVE THE ENGINEER AT LEAST SEVENTY-TWO (72) HOURS NOTICE FOR ANY STAKING TO BE DONE. EACH OF THE VARIOUS ITEMS OF WORK COVERED BY THIS CONTRACT WILL BE STAKED ONCE. ADDITIONAL STAKING REQUIRED DUE TO THE CONTRACTOR'S NEGLIGENCE IN PRESERVING THE STAKES SHALL BE PAID FOR BY THE CONTRACTOR AT THE CURRENT HOURLY RATE.
- THE CONTRACTOR SHALL INFORM THE ENGINEER AND THE VILLAGE OF ROMEOVILLE AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 8.1. TELEPHONE NUMBERS: MORRIS ENGINEERING (630) 271-0770 VILLAGE OF ROMEOVILLE CONTACT INFORMATION 8.2. MR. JONATHON A. ZABROCKI, P.E.
 - C/O VILLAGE OF ROMEOVILLE PUBLIC WORKS 615 ANDERSON DRIVE ROMEOVILLE, IL 60446

(815) 886-1870

- 9. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PLANS AND SPECIFICATIONS AND SHALL INFORM THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES THAT THE CONTRACTOR DISCOVERS DURING THE BIDDING PERIOD. SAID DISCREPANCIES WILL BE CLARIFIED BY THE ENGINEER TO THE BEST OF HIS ABILITY PRIOR TO RECEIPT OF BIDS. THE ENGINEER WILL BE UNRECEPTIVE TO CLAIMS FOR ADDITIONAL COMPENSATION FOR WORK ITEMS BECAUSE OF CONTRACTOR'S LACK OF COMPLIANCE WITH THIS REQUIREMENT
- 10. THE CONTRACTOR SHALL INFORM THE ENGINEER IMMEDIATELY OF ANY LATENT DISCREPANCIES THAT THE CONTRACTOR DISCOVERS DURING THE CONSTRUCTION PROCESS. THE ENGINEER WILL BE UNRECEPTIVE TO CLAIMS FOR ADDITIONAL COMPENSATION FOR WORK PERFORMED TO CORRECT A LATENT CONDITION NOT BROUGHT TO THE ATTENTION OF THE ENGINEER.
- 11. THE CONTRACTOR RESPONSIBLE FOR DRAINAGE IMPROVEMENTS (UNDERGROUND STRUCTURES AND CONDUITS) SHALL DISPOSE OF ALL SURPLUS EXCAVATED MATERIAL FROM TRENCHES OR STRUCTURE EXCAVATIONS AND SHALL DEPOSIT SAID SURPLUS MATERIALS ON THE SITE IN ACCORDANCE WITH THE GRADING PLAN OR AS DIRECTED BY THE ENGINEER.
- 12. THE CONTRACTOR SHALL NOT PLACE ANY EXCAVATED MATERIAL UPON ANY TOPSOIL. THE TOPSOIL SHALL BE REMOVED FROM ALL AREAS TO BE FILLED AND SHALL BE STOCKPILED IN AREAS AS DIRECTED BY THE ENGINEER.
- 13. THE CONTRACTOR SHALL NOT DISCHARGE INTO STREAMS, PONDS, WETLANDS OR ITS TRIBUTARIES ANY MOTOR OIL, TRANSMISSION FLUID, LUBRICANTS OR ANY OTHER PETROLEUM DISTILLATES, ANY PETROLEUM DISTILLATES DISCHARGED ON THE GROUND SURFACE SHALL BE PROMPTLY AND PROPERLY REMOVED PRIOR TO THE RESUMPTION OF ANY WORK ON THE PROJECT.
- 14. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING FIELD TILES. ANY FIELD TILES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS SOLE EXPENSE. INVESTIGATION SHALL BE MADE TO INSURE THAT FIELD TILES DO NOT CONVEY OFF SITE WATER. TILES THAT CONVEY OFF SITE WATER SHALL BE REROUTED THROUGH THE SITE. TILES THAT DO NOT CONVEY OFF SITE WATER SHALL BE ABANDONED IN AN APPROPRIATE MANNER APPROVED BY THE VILLAGE. FIELD TILES WITHIN A RIGHT-OF-WAY SHALL BE REMOVED AND BACKFILLED WITH CA-6 COMPACTED IN EIGHT INCH LIFTS TO THE BOTTOM OF THE ROADWAY BASE. EXISTING FIELD TILES SHALL BE REMOVED BY SLIT TRENCHING.
- 15. THE CONTRACTOR RESPONSIBLE FOR DRAINAGE IMPROVEMENTS SHALL BE RESPONSIBLE TO PLACE ALL FIRE HYDRANTS, FRAMES AND LIDS OR GRATES, AND ALL GRATES FOR MANHOLES, CATCH BASINS, INLETS AND VALVE VAULTS AT THE ELEVATIONS SHOWN AND SPECIFIED ON THE PLANS. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR SAID ADJUSTMENT AND THE COST OF SAID ADJUSTMENT SHALL BE INCLUDED IN THE UNIT PRICE FOR THE VARIOUS DRAINAGE STRUCTURES MENTIONED ABOVE.
- 16. ALL MANHOLES SHALL HAVE CONCRETE INVERTS CONFORMING TO THE SHAPE OF THE PIPE. CONCRETE INVERTS SHALL BE PLACED IN THE FIELD AND THE COST OF CONCRETE INVERTS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE VARIOUS INLETS AND MANHOLES.
- 17. WHERE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER, EXISTING DRAINAGE STRUCTURES AND SYSTEMS SHALL BE CLEANED OF DEBRIS AND PATCHED AS NECESSARY TO ASSURE INTEGRITY OF THE STRUCTURE. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR STRUCTURES AND CONTRACT UNIT PRICE PER LINEAL FOOT FOR SYSTEMS WHICH SHALL BE PAYMENT IN FULL FOR CLEANING, PATCHING, REMOVAL AND DISPOSAL OF DEBRIS AND DIRT. DRAINAGE STRUCTURES AND SYSTEMS CONSTRUCTED AS PART OF THIS PROJECT SHALL BE MAINTAINED BY THE CONTRACTOR AT HIS EXPENSE UNTIL FINAL ACCEPTANCE BY THE OWNER OR MUNICIPALITY.
- 18. THE CONTRACTOR SHALL KEEP PUBLIC STREET PAVEMENTS CLEAN OF DIRT AND DEBRIS AND, WHEN NECESSARY, SHALL ON A DAILY BASIS CLEAN THE PAVEMENT OF SUCH DIRT AND DEBRIS RESULTING FROM CONSTRUCTION OPERATIONS.
- 19. THE CONTRACTOR SHALL PROVIDE PIPE BEDDING IN ACCORDANCE WITH THE DETAIL ON THE PLANS. THE COST OF THE BEDDING SHALL BE INCLUDED IN THE UNIT PRICE PER LINEAL FOOT OF THE VARIOUS SIZES OF STORM SEWER. NO ADDITIONAL COMPENSATION WILL BE MADE FOR PIPE BEDDING.
- 20. THE CONTRACTOR SHALL PLACE TOPSOIL AT A 6" MINIMUM DEPTH AND SEED OR SOD ALL AREAS DESIGNATED BY THE ENGINEER.

GENERAL NOTES (CONT.)

- 21. THE CONTRACTOR SHALL EXAMINE THE DRAINAGE PATTERNS SHOWN ON THE PLANS AND MAKE CERTAIN THAT ALL OVERFLOW POINT ELEVATIONS AND CROSS SECTIONS ARE CONSTRUCTED STRICTLY IN ACCORDANCE WITH THOSE SHOWN ON THE PLANS.
- 22. ALL CONSTRUCTION SHALL CONFORM WITH THE PERMIT PLANS AND REVISIONS THERETO APPROVED BY THE VILLAGE AND UTILITIES COMPANIES.
- 23. THE CONTRACTOR SHALL CONTACT J.U.L.I.E. (1-800-892-0123) PRIOR TO ANY WORK IN THE RIGHT OF WAY OR EASEMENTS TO LOCATE UTILITIES, AND CONTACT THE OWNER'S REPRESENTATIVE SHOULD PUBLIC UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS.
- 24. ALL WORK HEREIN PROPOSED SHALL BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, THE MUNICIPALITY, AND ALL PERTINENT LAWS, DIRECTIVES, ORDINANCES AND THE LIKE SHALL BE CONSIDERED TO BE A PART OF THESE SPECIFICATIONS.
- 25. THE VILLAGE OF ROMEOVILLE DETAILS SUPERSEDE ALL OTHERS.
- 26. ALL NEW CURB THAT MEETS EXISTING CURB WILL HAVE THREE DRILLED AND GROUTED #5 REINFORCING BARS OR EXPANSION TIE ANCHORS, 5/8" DIAMETER FOR EACH NEW CURB ADJACENT TO EXISTING CURB.
- 27. FOR STRUCTURE ADJUSTMENT MINIMUM OF 6" (2 @ 3") ADJUSTING RINGS (10" MAX) CONCRETE RINGS WILL BE 3" MINIMUM. RUBBER CAN BE 1" - 3" AND MUST BE USED FOR TOP ADJUSTING RING IN PAVED AREAS. "EJIW INTRA-RISER RUBBER COMPOSITE ADJUSTMENT RISERS" OR APPROVED EQUAL.
- 28. ADD AN INTERNAL/EXTERNAL ADAPTOR SEAL ON THE ADJUSTED SANITARY MANHOLE. THE "I/E A" SEAL STOPS INFLOW BETWEEN THE MANHOLE FRAME AND THE TOP ADJUSTING RING AND IT ALSO SEALS THE MANHOLE CHIMNEY FROM THE FRAME TO THE CORBEL. ONE VENDOR OF THIS SEAL IS ADAPTOR INC.
- 29. THE DEVELOPER IS REQUIRED TO HAVE A GEOTECHNICAL ENGINEER ON-SITE TO MONITOR EARTHWORK AND THE GRADING ACTIVITY, IN ORDER TO IDENTIFY UNSUITABLE SOILS FOR REMOVAL FROM THE SITE. A NOTE TO THIS EFFECT MUST BE ADDED TO THE PLANS, AND A LETTER COMMITTING TO THIS REQUIREMENT MUST BE PROVIDED BY THE DEVELOPER. IN ADDITION, DAILY REPORTS AND COPIES OF ALL GEOTECHNICAL TESTING (TESTING AND FREQUENCY IN ACCORDANCE WITH THE IDOT STATE SPECIFICATIONS) MUST BE SUBMITTED TO THE VILLAGE OF ROMEOVILLE ONCE THE ROADWAYS HAVE BEEN COMPLETED.
- 30. DETECTABLE WARNING PLATES SHALL BE EAST JORDAN, POWDER COATED BRICK RED.

EXCAVATION

ALL SITE CLEARING, EXCAVATION, GRADING, COMPACTION, SUBGRADE PREPARATION, BASE COURSE, SURFACE COURSE, PCC CURB AND GUTTER AND SIDEWALKS SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS, LATEST FDITION.

EARTHWORK UNDER THIS CONTRACT SHALL INCLUDE THE FOLLOWING:

- A. REMOVAL OF EXISTING VEGETATION WITHIN CONSTRUCTION LIMITS FROM
- THE SITE. B. PROTECTION OF CERTAIN TREES AS DIRECTED BY THE OWNER'S
- REPRESENTATIVE WITH APPROVED FENCING.
- C. STRIPPING OF ALL TOPSOIL AND OTHER UNSUITABLE MATERIALS FROM BUILDING AND/OR PAVEMENT AREAS AND REMOVAL FROM SITE OF ALL EXCESS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING THE REQUIREMENTS OF ALL APPLICABLE SOIL EROSION AND SEDIMENT CONTROL ORDINANCES. THE COST OF ALL WORK NECESSARY TO MEET THESE REQUIREMENTS SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT, AND NO SEPARATE PAYMENT WILL BE MADE.

THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE IF PROPER COMPACTION CANNOT BE OBTAINED SO THAT THE OWNER'S REPRESENTATIVE MAY DETERMINE WHAT REMEDIAL MEASURES MAY BE NEEDED.

EXISTING SEWER AND WATERMAIN TRENCHES UNDER DRIVEWAYS IN PARKWAYS SHALL BE EXCAVATED TO THE TOP OF PIPE AND BACKFILLED WITH COMPACTED TRENCH BACKFILL.

EXISTING GRAVEL COMPACTION TO BE TESTED OR SOIL BORINGS TO BE MADE TO VERIFY SUITABILITY OF EXISTING GRAVEL AS SUBGRADE.

PROJECT SPECIFICATIONS AND GENERAL CONSTRUCTION NOTES

- THE PROJECT SECIFICATIONS AND GENERAL CONSTRUCTION NOTES SHALL INCLUDE THE FOLLOWING PROVISIONS:
- 1. ALL ON-SITE AND OFF-SITE IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE "VILLAGE OF ROMEOVILLE";
- 2. PERMITS SHALL BE OBTAINED FROM ALL OUTSIDE GOVERNMENTAL AGENCIES HAVING JURISDICTION;
- 3. ALL STRUCTURE ADJUSTEMENTS SHALL BE ACCOMPLISHED IN CONFORMANCE WITH THE MOST RECENT VILLAGE STANDARD;
- 4. EXISTING FIELD TILES ENCOUNTERED DURING CONSTRUCTION SHALL BE EITHER INTEGRATED INTO THE SITE DRAINAGE SYSTEM, REMOVED OR PLUGGED IN A MANNER DEEMED APPROPRIATE BY THE VILLAGE ENGINEER;
- 5. THE DEVELOPER SHALL BE RESPONSIBLE FOR ALL ADJUSTMENTS BEFORE AND AFTER FINAL INSPECTION, PRIOR TO FINAL ACCEPTANCE BY THE VILLAGE OF ROMEOVILLE;
- 6. THE VILLAGE MUST HAVE FORTY-EIGHT (48) HOURS NOTICE PRIOR TO THE INITIATION OF CONSTRUCTION ACTIVITY;
- 7. THE TESTING AND STERILIZATION OF ALL NEW WATER DISTRIBUTION FACILITIES SHALL BE COMPLETED PRIOR TO MAKING WATER SERVICE TAPS BY AN OUTSIDE TESTING SERVICE;
- 8. MATERIAL SPECIFICATIONS COMPLY WITH VILLAGE STANDARDS AND INCLUDE:
- A. PAVING BASE MATERIALS
- B. PAVING SURFACE MATERIALS
- C. CONCRETE MATERIALS
- D. PIPE MATERIALS.
- 9. DUST CONTROL THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF EXCESSIVE DUST BY WATERING DURING THE CONSTRUCTION PERIOD UNTIL THE ROAD PAVEMENT IS INSTALLED BY THE PAVING CONTRACTOR. THE REQUIREMENT FOR DUST CONTROL SHALL BE AS DIRECTED BY THE LOCAL APPROVING AUTHORITIES OR THE ENGINEER, AND SUCH DUST CONTROL (IF REQUIRED) SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- 10. PERSON RESPONSIBLE FOR MAINTENANCE OF EROSION CONTROL STRUCTURES AND MEASURES, DURING AND AFTER DEVELOPMENT: SARUNAS BRAZDEIKIS 273 MARQUETTE DRIVE
 - BOLINGBROOK, IL 60440 (630) 755-4661

STORM SEWER NOTES

- STORM SEWER JOINTS MUST BE FLEXIBLE GASKET O-RINGS PER ASTM C361, • ASTM C433, AND ASTM C1619.
- VILLAGE REQUIRES SUBMISSION OF RECORDED VIDEO INSPECTIONS OF ALL • PUBLIC STORM SEWER.
- FOR CLOSED LID STRUCTURES, FRAME AND COVER SHALL BE EAST JORDAN • 1022Z3 EMBOSSED WITH "STORM" AND VILLAGE OF ROMEOVILLE."
- WHEN UTILITY STRUCTURE ADJUSTMENT IS NECESSARY, A MINIMUM OF TWO ADJUSTING RINGS (MIN 6" ADJUSTING HEIGHT) AND MAXIMUM OF THREE RINGS (MAX 10" ADJUSTING HEIGHT). NO 1" OR 2" CONCRETE RINGS ARE ALLOWED. UNDER PAVED AREAS, TOP RING SHOULD BE RUBBER. USE ONE (1)

EJIW INFRA-RISER RUBBER COMPOSITE.

SANITARY SEWER NOTES

- ADJUSTING RINGS (MIN 6" ADJUSTING HEIGHT) AND MAXIMUM OF THREE RINGS (MAX 10" ADJUSTING HEIGHT). NO 1" OR 2" CONCRETE RINGS ARE ALLOWED. UNDER PAVED AREAS, TOP RING SHOULD BE RUBBER. USE ONE (1) EJIW INFRA-RISER RUBBER COMPOSITE.
- PIPES MUST HAVE A MINIMUM COVER DEPTH OF 5 FEET. PIPES MUST BE PVC SDR 26 WHEN LESS THAN 15 FEET DEEP, PVC SDR 21 WHEN 15-20 FEET DEEP, AND PVC SDR 18 WHEN OVER 20 FEET DEEP.
- ALL MANHOLES LOCATED IN AREAS SUBJECT TO INUNDATION MUST HAVE WATERPROOF, BOLT-DOWN FRAMES AND LIDS.
- BOTH INTERNAL AND EXTERNAL CHIMNEY SEALS ARE REQUIRED ON THE SANITARY MANHOLES. THE EXTERNAL CHIMNEY SEAL SHALL BE THE "L/E A" SEAL BY ADAPTOR INC. OR APPROVED EQUAL. THE INTERNAL CHIMNEY SEAL SHALL BE ENVIROLASTIC AR350 OR RAVEN 581 BRUSH GRADE, A 100% SOLIDS, FLUID APPLIED POLYURIA ELASTOMER REPAIR MATERIAL AS APPLIED PER THE FOLLOWING:
 - FOR SURFACE PREPARATION, SURFACES SHOULD BE THOROUGHLY CLEAN AND DRY. CONCRETE AND MORTAR MUST BE CURED AT LEAST7 DAYS AND NO FROST OR WET CONDITIONS CAN BE PRESENT DURING INSTALLATION. REMOVE ALL LOOSE MORTAR AND FOREIGN MATERIAL SURFACE MUST BE FREE OF LAITANCE, CONCRETE DUST, DIRT, FORM RELEASE AGENTS, MOISTURE CURING MEMBRANES, LOOSE CEMENT AND HARDENERS. FILL BUG HOLES, AIR POCKETS AND OTHER VOIDS WITH STEEL-SEAM FT910. AFTER ENSURING THAT ALL SURFACES ARE CLEAN THE CHIMNEY SEAL COATING MATERIAL SHALL BE APPLIED EVENLY BY SPRAYING OVER THE ENTIRE CHIMNEY SEAL AREA INCLUDING THE FRAME JOINT AREA AND THE VERTICAL RISER OF THE MANHOLE CONE INCLUDING ALL EXTENSIONS TO THE CHIMNEY AREA. APPLICATION SHALL BE MADE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND FILM SHALL BE APPLIED AT A WET MILS SPREADING RATE OF BETWEEN 100 TO 125 MILS. THE FINAL INTERNAL CHIMNEY SEAL SHALL PASS VISUAL INSPECTION AND BE COMPLETELY FREE OF PINHOLES OR VOIDS.
- SANITARY MANHOLE FRAME AND COVER SHALL BE EAST JORDAN 1022Z3 EMBOSSED WITH "SANITARY" AND VILLAGE OF ROMEOVILLE." ALL JOINTS NEED TO BE EXTERNALLY WRAPPED WITH MACWRAP OR EQUAL. RUBBER GASKETED BOOTS ARE REQUIRED FOR THE MAIN AT THE MANHOLE WALL
- "ALL SANITARY MANHOLE CASTINGS, ADJUSTING RINGS AND MANHOLE SECTION SHALL BE SET IN BUTYL ROPE OR APPROVED EQUAL. EACH MANHOLE CONE AND BARREL SECTION JOINT SHALL ALSO BE EXTERNALLY SEALED WITH A 6" WIDE SEALING BAND OF RUBBER AND MASTIC. THE BAND SHALL HAVE AN OUTER LAYER OF RUBBER OR POLYETHYLENE WITH AN UNDER LAYER OF RUBBERIZED MASTIC MEETING THE REQUIREMENTS OF ASTM C-877-02 (STANDARD SPECIFICATION FOR EXTERNAL SEALING BANDS FOR CONCRETE PIPE, MANHOLES, AND PRECAST BOX SECTIONS). PIPE CONNECTION TO NEW AND EXISTING MANHOLES THROUGH OPENINGS (CAST OR CORE-DRILLED) SHALL BE PROVIDED WITH A FLEXIBLE RUBBER WATERTIGHT CONNECTOR CONFORMING TO ASTM C-923 (STANDARD SPECIFICATIONS FOR RESILIENT CONNECTIONS BETWEEN REINFORCED CONCRETE MANHOLE STRUCTURES AND PIPES)".
- EXISTING SANITARY SERVICE STUBS TO BE REMOVED SHALL HAVE THE EXISTING SADDLE REMOVED FROM THE MAIN AND CIPP SPOT LINERS INSTALLED A MINIMUM OF 10 FEET ON EITHER SIDE OF THE SERVICE TO BE REMOVED.

FINAL ACCEPTANCE AND TESTING OF SANITARY SEWER

BEFORE FINAL ACCEPTANCE, THE SANITARY SEWERS SHALL BE TESTED IN ACCORDANCE WITH SECTION 31-1.11 OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS". SPECIFICALLY, ALL PIPELINES CONSTRUCTED OF FLEXIBLE MATERIALS SHALL BE SUBJECT TO AIR EXFILTRATION TESTS, TELEVISING TEST, AND DEFLECTION TEST. THE DEFLECTION TEST SHALL BE PERFORMED NO SOONER THAN THIRTY (30) DAYS OF THE BACKFILLING OPERATION AND SHALL CONSIST OF MEASURING THE PIPE FOR VERTICAL RING DEFLECTION. MAXIMUM RING DEFLECTION OF THE PIPELINE UNDER LOAD SHALL BE LIMITED TO FIVE (5) PERCENT OF THE INTERNAL PIPE DIAMETER. ALL PIPE EXCEEDING THIS DEFLECTION SHALL BE CONSIDERED TO HAVE REACHED THE LIMIT OF ITS SERVICEABILITY AND SHALL BE RE-LAID OR REPLACED BY THE DEVELOPER. DEFLECTION TESTING SHALL BE ACCOMPLISHED BY PULLING A MANDREL, SPHERE, OR PIN-TYPE "GO / NO-GO" DEVICE, WITH A DIAMETER EQUAL TO NINETY-FIVE (95) PERCENT OF THE UN-DEFLECTED INSIDE DIAMETER OF THE FLEXIBLE PIPE, THROUGH THE PIPELINE. IN ADDITION, ALL SANITARY SEWER HAVING A DIAMETER OF EIGHT (8) INCHES OR GREATER SHALL BE TELEVISED. COPIES OF ALL VIDEO TAPES MUST BE SUBMITTED TO THE VILLAGE OF ROMEOVILLE.

FINAL TESTING OF SANITARY SEWER MANHOLES

VACUUM TESTING SHALL BE CARRIED OUT IMMEDIATELY AFTER ASSEMBLY AND PRIOR TO BACKFILLING OF MANHOLES THAT ARE UP TO SEVENTY-TWO (72) INCHES IN DIAMETER. ALL LIFT HOLES SHALL BE PLUGGED WITH A NON-SHRINK GROUT, OR RUBBER PLUG. THE MANHOLE FRAME AND ADJUSTING RINGS AND CHIMNEY SEALS SHALL BE IN PLACE BEFORE TESTING. NO GROUT SHALL BE PLACED IN THE HORIZONTAL JOINTS. ALL PIPES ENTERING THE MANHOLE SHALL BE PLUGGED, TAKING CARE TO SECURELY BRACE THE PLUGS FROM BEING DRAWN INTO THE MANHOLE WITH THE VACUUM TESTING. VACUUM TESTING SHALL TEST ALL MANHOLES FOR LEAKAGE. A VACUUM OF TEN (10) INCHES OF MERCURY SHALL BE PLACED ON THE MANHOLE AND THE TIME MEASURED FOR THE VACUUM TO DROP TO NINE (9) INCHES OF MERCURY. THE VACUUM DROP SHALL NOT EXCEED THE REQUIREMENTS SHOWN IN TABLE 1 OF ASTM C1244-02. IF TESTING FAILS, DEVELOPER SHALL SEAL ALL LEAKS AND RETEST UNTIL ACCEPTABLE. THE TESTING SHALL BE COMPLETED PRIOR TO BACKFILLING (WHENEVER POSSIBLE) SO THAT ANY LEAKS CAN BE FOUND AND FIXED EXTERNALLY, AND TO GIVE THE HORIZONTAL MANHOLE JOINTS AN OPPORTUNITY TO TIGHTEN.

FLOW MONITORING PRIOR TO ACCEPTANCE

THE DEVELOPER WILL BE REQUIRED TO MONITOR THE FLOWRATE FROM THE SITE FOR A PERIOD OF TWO MONTHS (ENCOMPASSING AT LEAST TWO MAJOR STORM EVENTS) TO IDENTIFY ANY EXCESSIVE INFLOW/INFILTRATION OCCURRING IN THE SYSTEM. THE DATA MUST BE SUBMITTED TO THE VILLAGE OF ROMEOVILLE PRIOR TO ACCEPTANCE OF THE PUBLIC IMPROVEMENTS.

WHEN UTILITY STRUCTURE ADJUSTMENT IS NECESSARY, A MINIMUM OF TWO

WATER MAIN NOTES "PLEASE BE CONSCIOUS OF DAMAGING THE PAINT ON THE HYDRANTS DURING INSTALLATION. THE VILLAGE OF ROMEOVILLE HAS FOUND THAT THE PAINT ON THE HYDRANTS CAN BEEN DAMAGED DURING BACKFILLING. IF REQUESTED BY THE VILLAGE OF ROMEOVILLE WATER SUPERINTENDENT, ANY HYDRANTS EXHIBITING EXCESSIVE ROCK DAMAGE WILL BE SAND BLASTED AND REPAINTED BY AN APPROVED CONTRACTOR PRIOR TO ACCEPTANCE."

- "A MINIMUM OF 48 HOURS PRIOR TO ANY WATER USAGES (I.E. FLUSHES, FILLS, ETC.), THE CONTRACTOR MUST CALL THE VILLAGE OF ROMEOVILLE'S WATER DEPARTMENT AT 815-886-1870 TO GET APPROVAL OF SAID USAGE. ANY UNAUTHORIZED USAGES WILL RESULT IN PENALTIES."
- "ALL VALVES AND HYDRANTS SHALL BE SUBMITTED TO THE VILLAGE OF ROMEOVILLE WATER DEPARTMENT FOR WRITTEN APPROVAL PRIOR TO ORDERING."

VALVE VAULTS:

- ALL VALVE VAULTS SHALL BE A MINIMUM OF 5' DIAMETER.
- FRAME AND COVER SHALL BE EAST JORDAN #1022Z3 EMBOSSED WITH 1020A HD "WATER" AND "VILLAGE OF ROMEOVILLE."
- ALL JOINTS NEED TO BE EXTERNALLY WRAPPED WITH MACWRAP OR EQUAL.
- RUBBER GASKETED BOOTS ARE REQUIRED FOR ALL PENETRATIONS THROUGH THE MANHOLE WALL.
- INTERNAL/EXTERNAL CHIMNEY SEALS ARE REQUIRED.
- MINIMUM OF TWO ADJUSTING RINGS (MIN 6" ADJUSTING HEIGHT) AND MAXIMUM OF THREE RINGS (MAX 10" ADJUSTING HEIGHT). NO 1" OR 2" CONCRETE RINGS ARE ALLOWED. UNDER PAVED AREAS, TOP RING SHOULD BE RUBBER. USE ONE (1) EJIW INFRA-RISER RUBBER COMPOSITE ADJUSTMENT RISERS (1" TO 3" MAX HT. OF STACKED RISERS).

MANHOLES FOR VALVE VAULTS:

- MANHOLES MUST CONFORM TO THE LATEST REQUIREMENTS OF ASTM C478.
- NEVER TRANSPORT SECTIONS TO THE SITE UNTIL THEY HAVE CURED FOR AT LEAST TEN (10) DAYS.
- MARK EACH PIECE PLAINLY WITH MANHOLE NUMBERS AND DATE OF MANUFACTURE SO IT CAN BE INSTALLED IN THE PROPER LOCATION, AS SHOWN ON THE PLANS.
- MAKE SURE FACTORY-INSTALLED CUTOUTS IN THE BOTTOM SECTION ARE APPROPRIATE FOR THE PIPE BEING LAID.
- PIPE CONNECTIONS AT MANHOLE CUTOUTS SHOULD BE EQUIPPED WITH RUBBER BOOTS TO ENSURE A WATERTIGHT CONNECTION. MATERIAL SHALL BE EQUAL TO KOR-N-SEAL CONNECTOR, AS MANUFACTURED BY NPC, INC.
- JOINT SEALANT FLEXIBLE RUBBER SEALANT FOR JOINTS IN PRE-CAST MANHOLE SECTIONS SHALL PROVIDE PERMANENTLY FLEKIBLE WATERTIGHT JOINTS, SHALL REMAIN WORKABLE OVER A WIDE TEMPERATURE RANGE AND SHALL NOT SHRINK, HARDEN OR OXIDIZE UPON AGING. MATERIAL SHALL BE EQUAL TO TYLOX SUPERSEAL AND SHALL MEET ASTM C 443 AND ASTM C 361 REQUIREMENTS.
- THE FRAME FOR THE LID SHALL BE INSTALLED WHEN CONE SECTION IS CAST.
- HEAT-SHRINKABLE ENCAPSULATION FOR EXTERNAL WRAPPING OF ALL JOINTS: WRAPID SEAL AS MANUFACTURED BY CANUSA CPS, BIDCO EXTERNAL JOINT WRAP AS MANUFACTURED BY NPC, OR APPROVED EQUAL.

VILLAGE OF ROMEOVILLE - MINIMUM CHLORINATION STANDARDS

- a. GAS CHLORINE MUST BE USED FOR DISINFECTION.
- b. THE CHLORINATION CONTRACTOR MUST CALL 815-886-1870 A MINIMUM OF 24-HOURS IN ADVANCE TO SCHEDULE CHLORINATION.
- c. ONLY VILLAGE OF ROMEOVILLE EMPLOYEES SHALL OPERATE WATER SYSTEM VALVES AND TURN ON/OFF SAMPLING WHIPS WHILE SAMPLES ARE BEING COLLECTED.
- d. ALL CHLORINATION AND SAFETY EQUIPMENT MUST MEET OR EXCEED THE STANDARDS AND RECOMMENDATIONS SET BY THE CHLORINE INSTITUTE, INC.
- e. THE CHLORINATOR MUST BE A LICENSED PLUMBER OR CERTIFIED ILLINOIS WATER OPERATOR WITH A MINIMUM OF 5 YEARS EXPERIENCE WORKING WITH CHLORINE DISINFECTION OF WATER SUPPLY LINES.
- THE CHLORINATION CONTRACTOR MUST HAVE TWO PEOPLE PRESENT TO CHLORINATE. ONE TO MONITOR THE CYLINDER AND ONE TO MONITOR IN THE FIFI D
- THE CHLORINATION CONTRACTOR MUST BE BONDED AND INSURED, AND HAVE PROOF OF BOTH ON FILE WITH THE VILLAGE. h. THE CHLORINATION CONTRACTOR MUST HAVE UPDATED 24-HOUR EMERGENCY PHONE NUMBERS ON FILE WITH THE VILLAGE.
- THE CHLORINATION CONTRACTOR MUST COMPLY WITH STATE AND FEDERAL REGULATIONS REGARDING TRANSPORTATION AND HANDLING OF CHLORINE CYLINDERS:
- SHIPPING AND EMERGENCY PAPERS FOR EVERY JOB LOCATION PROOF OF INSURANCE FOR HAULING AND HANDLING CHLORINE GAS COMMERCIAL DRIVER'S LICENSE WITH HAZMAT ENDORSEMENT AND MEDICAL CARD
- COPY OF EMERGENCY RESPONSE GUIDEBOOK IN VEHICLE
- HAZMAT CERTIFICATE OF REGISTRATION
- HAZARDOUS MATERIALS PLACARD DISPLAYED ON VEHICLE CYLINDER STRAPPED UPRIGHT IN TRUCK
- UNDER NO CIRCUMSTANCES WILL CHLORINE CONTRACTORS BE ALLOWED TO APPLY HEAT TO THE CHLORINE CYLINDER (I.E. HOT BATHS, PROPANE TORCHES, ETC.). WHILE THE CYLINDER IS BEING USED IT MUST BE IN A VERTICAL POSITION, AS WELL AS BEING AFFIXED TO A SOLID OBJECT.
- k. PRIOR TO CHLORINATION, THE CHLORINATION CONTRACTOR MUST PROVIDE A DETAILED WRITTEN CHLORINATION AND FLUSHING PLAN TO THE VILLAGE FOR REVIEW AND WRITTEN APPROVAL.
- AT ANY TIME, THE VILLAGE OR ITS AUTHORIZED REPRESENTATIVE MAY ASK FOR PROOF OF ANY OR ALL OF THE ABOVE INFORMATION. PLEASE CONTACT THE VILLAGE OF ROMEOVILLE PUBLIC WORKS DEPARTMENT (815-886-1870) WITH ANY QUESTIONS.

E	2018 RESUBMITTAL TO VILLAGE	2018 RESUBMITTAL TO VILLAGE				
DAT	1 6/29/2	2 8/15/2	3	4	5	9
	GENERAL NOTES					
		Land Surveying	515 Warrenville Road, Lisle, IL 60532	Phone: (630) 271-0770 Survey: (630) 271-0599	RUGTURE FEI FAX: (630) 271-0774	BETTER - Website: www.ecivil.com
FIEI DR/ CHI APF DAT	LD CR AWN B ECKED PROVED TE:	EW: . Y: . BY: . <u>H</u> V	3/1: 00RIZ /ERT	GB CJS EF 2/201		BETTER BETTE

OF<u>13</u>SHEETS PROJ # 17-PR-1002









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 . The 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 amended 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: Construction of a 25,600 s.f. warehouse/office facility. The construction activities for the site improvements will include: mass grading, pavement construction, installation of utilities including storm sewers, soil erosion and sedimentation control measures, at a minimum.
- 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:
- Install perimeter sediment control measures
- Selective vegetation removal for silt fence installation Silt fence installation
- Construction fencing around areas not to be disturbed
- stabilized construction entrance Clear and grub (as necessary)
- Strip topsoil, stockpile topsoil and grade site
- Temporarily stabilize topsoil stockpiles (seed and silt fence around toe of slope) Construct building
- Install storm sewer, sanitary sewer, watermain and associated inlet and outlet protection
- Install roadway and parking pavement
- Permanently stabilize detention basins with see and erosion control blanket Remove all temporary soil erosion and sediment control measures after the site is stabilized with vegetation
- C. The site has a total acreage of approximately 4.35 acres. Construction activity will disturb approximately 4.35 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 for a site plan indicating:
- 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:
- 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.
- The name of the receiving water(s) is(are)
- The name of the ultimate receiving water is The extent of wetland acreage at the site is ______ acres.
- G. Potential sources of pollution associated with this construction activity may include:
- sediment from disturbed soils
- portable sanitary stations fuel tanks
- staging 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
- 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 Romeoville
- Will County IEPA
- B. Control Implementation Schedule

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 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 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 ans determined by the Engineer or Primary Contact.

2) 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 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 nitiated 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

D. Storm Water Management

subject to Section 404 of the Clean Water Act.

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 measures include:

storm sewe existing detention basin

2) Velocity dissipation devices, such as rip-rap aprons at flared end sections or level spreaders, shall be placed at discharge locations and along the length of any outfall channel as necessary to provide a non-erosive velocity flow from the structure to a 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).

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, 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 shall 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 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 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

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. A stabilized entrance that meets Illinois Urban Manual standards should be installed at each washout area.

or hauled off site to an appropriate landfill.

G. Concrete Cutting

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.

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 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 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

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 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 Contract, who should notify the appropriate agencies, if needed.

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.

- An effort should be made to store only enough product required to do the job.
- from the environment.
- Substances should not be mixed with one another unless recommended by the manufacturer.

Manufacturer's recommendations for proper use and disposal should be followed.

Management of Portable Sanitary Stations

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 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.

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. 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 CFG 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.
- discharged to the storm sewer or waterbody.

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

N. Topsoil Stockpile Management

undisturbed for longer than thirty days.

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.

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. The installation of these devices may be

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 used again on site (as approved by the Engineer)

The following good housekeeping practices should be followed on site during the construction project:

All materials stored on site should be stored in a neat, orderly manner in their appropriate containers and adequately protected

Products should be kept in their original containers with the original manufacturer's label.

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.

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

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 remain

O. 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 (or available) for sprinkling/irrigation to li the amount of dust leaving the site. Watering should be applied daily (or more frequently) to be effective. Caution should be used r to overwater, as that may cause erosion.

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 Contac

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 or 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.

Dust control: when temporary dust control measures are used, repetitive treatment should be applied as needed to accomplish

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.

Silt fences: Silt fences should be inspected regularly for undercutting where the fence meet the ground, overtopping, and tears alo the length of the fence. Deficiencies should be repaired immediately. Remove accumulated sediments from the fence base when sediment reaches one-half the fence height. During final stabilization, properly dispose of any sediment that has accumulated on t 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 stone and sediment. The sedime 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 sedime 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. A 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.

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 by the qualified personnel 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 of the end of a storm event that is (inches or greater, or equivalent snowfall.

Each inspection should include the following components.

A. Disturbed areas and areas used for the storage of materials that are exposed to precipitation should be inspected for eviden of, or the potential for, pollutants entering the drainage system. The erosion and sediment control measures identified in the SWPF should be observed to ensure that they have been installed and are operating correctly. Where discharge points are accessible, th 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 a other potential non-storm water discharge sources should also be inspected.

B. Based on the results of the inspection, the description of potential pullutant sources identified, and the pollution prevention measures described in the SWPPP should be revised, as appropriate, as soon as practicable after the inspection. The modification 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 the inspection, the date(s of the inspection, major observations relating to the implementation of the SWPPP, and actions taken in accordance with paragra B. above should be made and retained as part of the SWPPP for at least three years from the date that permit coverage expires of 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 email at: epc.swnoncomp@illinois.gov telephone or fax within 24 hours of any incidence of noncompliance for any violation of the storm water pollution prevention p observed during any inspection conducted 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 further causes of non-compliance, and a spatement 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), 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:

Illinois Environmental Protection Agency Division of Water Pollution Control Compliance Assurance Section 1021 North Grand Avenue East Springfield, Illinois 62794-9276

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 discharge associated with the proposed activity, are described below:

- Water used to wash vehicles where detergents are not used; Water used to control dust;
- 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;
- Landscape irrigation drainages: Uncontaminated air conditioning condensate.

Pollution prevention measures should be implemented for non-storm water components of the discharge.

NOTE: ALL SEDIMENT TRAPS ARE DESIGNED FOR A 1 YEAR - 24 HOUR STORM EVENT

VILLAGE OF ROMEOVILLE EROSION CONTROL NOTES

- All access to and from the construction site is to be restricted to the construction entrance.
- All temporary and permanent erosion and sediment control practices must be maintained and repaired as needed to assure effective performance of their intended function.
- of each workday and transported to a controlled sediment disposal
- achieved with permanent soil stabilization measures.
- If dewatering devices are used, discharge locations shall be protected from erosion. All pumped discharges shall be routed through appropriately designed sediment traps or basins.

Major amendments of the site development or erosion and sedimentation control plans shall be submitted to the Department of Community Development to be approved in the same manner as the original plans.

Any sediment reaching a public or private road shall be removed by shoveling or street cleaning (not flushing) before the end

All temporary erosion and sediment control measures shall be disposed of within 30 days after the final site stabilization is

Disturbed areas shall be stabilized with temporary or permanent measures within 7 calendar days following the end of active

disturbance or redisturbance.

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- SHALL BE DISPOSED OF WITHIN 30 DAYS AFTER THE FINAL SITE STABILIZATION IS ACHIEVED WITH PERMANENT SOIL STABILIZATION MEASURES. 10. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN 7 CALENDAR DAYS FOLLOWING THE END OF ACTIVE DISTURBANCE OR REDISTURBANCE. OR BASINS.
- CONTROLLED SEDIMENT DISPOSAL. 9. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES
- 11. IF DEWATERING DEVICES ARE USED, DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION, ALL PUMPED DISCHARGES SHALL BE ROUTED THROUGH APPROPRIATELY DESIGNED SEDIMENT TRAPS
- 12. ALL INLETS AND CATCH BASINS ARE TO BE PROTECTED UPON INSTALLATION.

NOTES

2. CONTRACTOR SHALL FIELD DETERMINE LOCATION OF CONCRETE

3. NORTH AMERICAN GREEN S-75 EROSION CONTROL BLANKET SHALL

4. GREEN SPACE SHALL BE FINISHED WITH 6" TOPSOIL, SEED AND

5. ALL ACCESS TO AND FROM THE CONSTRUCTION SITE IS TO BE

6. ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT

CONTROL PRACTICES MUST BE MAINTAINED AND REPAIRED AS

NEEDED TO ASSURE EFFECTIVE PERFORMANCE OF THEIR INTENDED

MAJOR AMENDMENTS OF THE SITE DEVELOPMENT OR EROSION AND SEDIMENTATION CONTROL PLANS SHALL BE SUBMITTED TO THE DEPARTMENT OF COMMUNITY DEVELOPMENT TO BE APPROVED IN

8. ANY SEDIMENT REACHING A PUBLIC OR PRIVATE ROAD SHALL BE

REMOVED BY SHOVELING OR STREET CLEANING (NOT FLUSHING) BEFORE THE END OF EACH WORKDAY AND TRANSPORTED TO A

RESTRICTED TO THE CONSTRUCTION ENTRANCE.

THE SAME MANNER AS THE ORIGINAL PLANS.

BE INSTALLED IN ALL AREAS WHERE SLOPE IS GREATER THAN 6:1.

1. CONTRACTOR SHALL COORDINATE FINAL STABILIZATION WITH

LANDSCAPE ARCHITECT PLANS.

WASHOUT.

BLANKET.

FUNCTION.

EDGE OF WATER _____ 02/20/2018 ==*= --624--<u>40</u>9.11' (R) (\mathcal{O}) F.I.R. 1/2" __ 0.06' N & 0.11' E INLET BASKET à \bigcirc

- 11. IF DEWATERING DEVICES ARE USED, DISCHARGE LOCATIONS SHALL OR BASINS.
- BE PROTECTED FROM EROSION, ALL PUMPED DISCHARGES SHALL BE ROUTED THROUGH APPROPRIATELY DESIGNED SEDIMENT TRAPS

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THE SAME MANNER AS THE ORIGINAL PLANS.

CONTROLLED SEDIMENT DISPOSAL.

BE INSTALLED IN ALL AREAS WHERE SLOPE IS GREATER THAN 6:1.

NEEDED TO ASSURE EFFECTIVE PERFORMANCE OF THEIR INTENDED

FUNCTION. INSPECTION OF ALL EROSION CONTROL DEVICES SHALL

OCCUR ON A WEEKLY BASIS AND AFTER 0.5" OF RAIN HAS FALLEN IN

25% FULL OF DEBRIS MUST BE CLEANED OUT. ALL SILT FENCE MUST

MAJOR AMENDMENTS OF THE SITE DEVELOPMENT OR EROSION AND

SEDIMENTATION CONTROL PLANS SHALL BE SUBMITTED TO THE

DEPARTMENT OF COMMUNITY DEVELOPMENT TO BE APPROVED IN

ANY SEDIMENT REACHING A PUBLIC OR PRIVATE ROAD SHALL BE REMOVED BY SHOVELING OR STREET CLEANING (NOT FLUSHING) BEFORE THE END OF EACH WORKDAY AND TRANSPORTED TO A

9. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES

10. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR

END OF ACTIVE DISTURBANCE OR REDISTURBANCE.

SHALL BE DISPOSED OF WITHIN 30 DAYS AFTER THE FINAL SITE

STABILIZATION IS ACHIEVED WITH PERMANENT SOIL STABILIZATION

PERMANENT MEASURES WITHIN 7 CALENDAR DAYS FOLLOWING THE

A 24 HOUR PERIOD. ALL INLET BASKETS THAT ARE GREATER THAN

CONTRACTOR SHALL COORDINATE FINAL STABILIZATION WITH

LANDSCAPE ARCHITECT PLANS.

BE KEPT FREE OF DEBRIS.

MEASURES.

WASHOUT.

BLANKET.

12. THE OWNER OF THE PROPERTY, CHICAGO TUBE DRIVE, LLC., WILL HAVE LEGAL RESPONSIBILITY FOR THE MAINTENANCE OF EROSION CONTROL STRUCTURES AND MEASURES DURING AND AFTER DEVELOPMENT.

 $x_{0}^{(5,3)} = x_{0}^{(5,3)} = x_{0}^{(5,1)} = x_{0}^{(5,1)$ EDGE OF WATER ____ 02/20/2018 ==== -624--409.11' (R) F.I.R. 1/2" 0.06' N & 0.11' E 5 ----- \bigcirc

PROJ # 17-PR-1002

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I	Schedule											
	Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
	•	Α	6	Lithonia Lighting	DSX2 LED P8 40K T4M MVOLT	DSX2 LED P8 40K T4M MVOLT	LED	1	DSX2_LED_P8_40 K_T4M_MVOLT.ies	48144	0.95	431
		В	7	Lithonia Lighting	DSX1 LED P9 40K T4M MVOLT	DSX1 LED P9 40K T4M MVOLT	LED	1	DSX1_LED_P9_40 K_T4M_MVOLT.ies	26996	0.95	241

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone Depressed Loading Dock	Ж	6.0 fc	8.8 fc	4.5 fc	2.0:1	1.3:1
Calc Zone East Loading Dock	Ж	6.1 fc	8.9 fc	4.6 fc	1.9:1	1.3:1
Calc Zone Employee Parking Area		1.5 fc	7.0 fc	0.2 fc	35.0:1	7.5:1
Calc Zone Entire Area	+	1.9 fc	10.8 fc	0.0 fc	N/A	N/A
Calc Zone Main Entrance	X	8.2 fc	8.2 fc	8.1 fc	1.0:1	1.0:1
Calc Zone West Loading Dock	\diamond	5.6 fc	8.9 fc	4.2 fc	2.1:1	1.3:1

Luminaire Locations													
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6	Α	2.41	201.39	25.00	90.00								
1	В	248.00	103.50	20.00	270.00								
2	В	248.00	256.50	20.00	270.00								
3	В	409.50	256.50	20.00	90.00								
4	В	409.50	103.50	20.00	90.00								
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	0.2	0.3	0.6	1.0 [.] 0.	9 <u>0.7</u>	0.7	0.8	1.8	2.0	1.6 1.	.2 0.9	9 0.7	0.5	0.4	0.3	0.2	0.2	0.1	0.1	0.2	0.2	.0.2	0.3	0.4	0.4	0.5	0.4	0.4	0.1 C	0.0 [.] 0.0).0 [.] 0.	0.0	0.0	0.0	0.0	0.0 0	.0 0.0	0.0	0.0	0.0	0.0 0.	1 0.4	0.4	0.4	0.4 0.4	4 0.3	0.2	0.2	0.1 (0.1
	0.3	0.7	1.0 ·	1.2 1.	4 [.] 1.3	1.6	3.1	3.2	2.6	2.1 1.	.7 1.3	3 0.9	0.6	0.5	0.3	0.2	0.2	0.2	0.2	0.2	0.3	.0.3	0.5	0.6	0.7	0.8	0.8	0.8	0.2 C	0.0 [°] ().0 [°] 0.1	0 ^{.0} 0.0	0.0 N 87°56%	0.0 28" E (R)	0.0	0.0 0	0.0 0.0	0.0	.0.0	0.0	0.0 0.	2 0.8	0.8	0.8	0.7 0.6	3 0.5	0.3	0.3	0.2 (0.2
	0.6	1.0	1.1	2.1 [.] 2.	3 [.] 3.1	4.8	4.4	4.1	3.5	2.7 2	.1 1.	5 [.] 1.1	0.8	0.5	0.4	0.3	0.2	0.2	0.2	0.2	.0.3	0.5	0.6	0.9	1.1	1.4	[.] 1.3	1.3	0.5 C	0.0 [°] ().0 [°] 0.0	0 ^{.0} 0.0	630.0	0'	0.0	0.0 0	.0 0.0	0.0	0.0	0.0	0.0 0.	5 1.3	1.3	1.3	1.1 0.§	э 0.7		0.4	0.3 (0.2
	0.7	0.8	1.3	2.1 2.	5 8.4	7.4	6.0	5.3	4.1	3.1 2	.3 1.	7 .1.2	0.8	0.6	0.4	0.3	0.2	0.2	0.2	0.2	0.4	0.6	0.9	1.2	1.6	.2.0	2.1	2.1	0.9 C	0.0 [.] ().0 [°] 0.	0.0	0.0	0.0	0.0	0.0 0	.0 0.0	.0.0	0.0	0.0	0.0 0.	5 2.1	2.1	2.0	1.6 1.2	2 0.9	0.6	0.4	0.3 (0.3
	0.5	0.7	1.1	2.8 7.	8 A-1 10.6	9.2	7.3	6.0	4.5	3.4 2.	.5 1.8	8 [.] 1.3	0.9	0.6	0.4	0.3	0.2	0.2	0.2	.0.2	0.4	0.6	[.] 1.1	1.6	.2.2	2.8	3.3	3.1	1.0 [°] C	D.O [°] C).0 [°] 0.	0 [°] 0.0	.00	[.] 0.0	0.0	0.0 0	0.0 0.0	0.0	[`] 0.0	0.0	0.0 0.	7 3.1	3.3	2.8	2.2 1.6	3 [.] 1.1	0.7	0.5	0.4 (0.4
	0.4	0.7	1.3	4.4 6.	7 9.1	8.8	7.3	5.9	4.8	3.6 2	.6 1.9	9 1.3	0.9	0.6	0.4	0.3	0.2	0.2	0.2	0.2	0.4	0.6	1.2	.2.0	3.0	3.9	4.6	4.1	0.5 C	0.0 0.0).0 [°] 0.	0 [.] 0.0	0.0	0.0	0.0	0.0 0	.0 [.] 0.0	0.0	0.0	0.0	0.0 0.	0 4.1	4.6	3.8	3.0 2.0	J ¹ .2	0.7	0.5	0.4 (0.4
	0.4	0.9	3.0	4.1 5.	8 [.] 7.6	7.8	6.5	5.5	4.4	3.4 2.	.5 1.8	8 1.3	0.9	0.6	0.4	0.3	0.2	0.2	0.2	.0.2	0.4	0.6	1.2	2.1	3.3	4.8	6.1	6.5	0.0 0	0.0 [.] ().0 [°] 0.	0 0.0	.0.0	.0.0	0.0	0.0 0	0.0 0.0	0.0	0.0	0.0	0.0 0.	0 6.5	6.1	4.8	3.3 2.1	1 1.2	0.7	0.5		0.5
	0.7	1.8	3.1	3.8 5.	3 6.9	6.9	6.1	5.1	4.0	3.0 [.] 2	. 3 ¹ .	7 .1.2	0.8	0.6	0.4	0.3	0.2	0.2	0.2	0.3	0.4	0.7	1.2	[.] 2.1	3.5	· 5.0	7.2		2							\langle / \rangle						B-3 8.9	7.2	5.0	3.4 2.1	1 1.3	0.8	0.6	0.5 (0.5
	1.2	2.1	2.6	3.4 4.	3 6.4	6.7	6.0	4.9	3.8	2.9 [.] 2	.2 1.0	6 1.1	[.] 0.7	0.5	0.3	0.2	0.2	0.2	0.2	0.3	0.5	0.8	1.4	2.3	3.7	·5.2	6.6	[.] 7.0		$\langle \rangle$		$\langle \rangle \rangle$			$\langle \rangle \rangle$	$\langle \rangle \rangle$		\langle / \rangle				[.] 7.0	6.6	5.2	3.7 2.3	3 1.4	0.9	0.6	0.5 (0.5
	1.3	1.9	2.3	2.9 3.	4 [.] 6.3	6.6	6.3	5.1	4.0	3.0 2	.2 1.	5 [.] 1.0	0.6	0.4	0.3	0.2	0.1	0.1	0.2	0.3	0.5	0.9	1.6	2.6	3.8	4.8	5.5	·5.0				$\langle \rangle \rangle$			$\langle \rangle \rangle$			$\langle \rangle \rangle$				5.0	5.5	4.8	3.8 2.6	ð ¹ .6	1.0	0.7	0.5 (0.5
	1.2	1.7	2.2	2.6 [·] 3.	8 6.4	6.9	7.0	5.6	4.5	3.2 2	.2 1.4	4 [`] 0.9	0.6	0.4	0.2	0.2	0.1	0.1	0.2	0.4	0.6	1.1	1.7	.2.6	3.5	4.3	4.9	·4.6		$\backslash \rangle$				$\langle \rangle \rangle$			$\left/ \right/$	$\langle \rangle \rangle$				·4.6	4.9	4.3	3.5 2.6	ð ¹ .8	1.1	0.7	0.6 (0.5
	1.0	1.7	2.2	2.7 [.] 4.	3 [.] 7.8	8.2	7.8	6.3	4.7	3.3 2	.1 1.:	3 0.8	0.5	0.3	0.2	0.1	0.1	[.] 0.1	0.2	0.4	0.7	1.1	1.8	2.5	3.4	4.2	4.7	[.] 4.6		$\backslash\rangle$				$\langle \rangle \rangle$	$\langle \rangle \rangle$			$\langle \rangle \rangle$				4.6	4.7	4.2	3.3 2.5	5 1.8	1.2	0.7	0.5 (0.4
	0.8	1.6	2.1	3.6 [.] 4.	5 ¹ 10.5	10.1	8.6	6.4	4.7	3.2 2	.1 1.3	3 .0.8	0.5	0.3	0.2	0.1	0.1	0.1	0.2	0.4	0.6	1.1	1.7	2.6	3.6	4.5	5.1	[.] 4.6						PR	OPOSE		$\langle \rangle \rangle$					4.7	5.1	4.5	3.6 2.6	ð ¹ .7	¹ 1.1	0.7	0.5 ⁽	0.4
	0.7	1.4	1.9	3.3 [.] 4.	3 ¹ 10.4	10.0	8.5	6.5	4.8	3.3 2	.2 1.	4 [.] 0.9	0.5	0.3	0.2	0.2	0.1	[.] 0.1	0.2	.0.3	0.6		1.6	2.6	3.9	5.1	6.0	[.] 5.7														5.7	6.0	5.0	3.9 2.6	ð ¹ .6	0.9	0.6	0.4 (0.3
	0.7	1.3	1.5	1.9 3.	5 [.] 7.5	7.9	7.7	6.5	5.1	3.5 2	.4 1.	5 [.] 1.0	0.6	0.4	0.2	0.2	0.1	[.] 0.1	0.2	0.3	0.5	0.8	1.4	2.4	3.8	5.4	7.2	[.] 8.2		$\langle \rangle$		$\langle \rangle \rangle$			NF 123.3			\langle / \rangle				8.1	7.1	5.3	3.7 2.4	4 1.4	0.8	0.5	0.3 ⁽	0.2
	0.7	1.1	1.1	1.2 2.	6 [.] 6.0	6.6	6.9	6.0	4.9	3.7 2	.6 1.	7 1.1	0.7	0.4	0.3	0.2	0.1	0.1	0.2	0.3	0.5	.0.8	1.4	.2.4	[.] 3.8	5.4	7.4	8.8	5		$\langle \rangle \rangle$	$\langle \rangle \rangle$						$\langle \rangle \rangle$				B-7 8.8	7.3	5.3	3.7 2.3	3 1.4	0.8	0.5	0.3 (0.2
A A	0.7 [.]	0.9	0.9	1.0 1.	8 5.7	6.1	6.3	5.5	4.6	3.6 2	.7 1.	9 1.2	0.8	0.5	0.3	0.2	0.1	0.1	0.2	0.3	0.5	0.9	1.5	2.5	·3.9	.5.2	6.2	[.] 5.9		$\langle \rangle$	$\langle \rangle \rangle$	$\langle \rangle \rangle$						$\langle \rangle \rangle$				6.0	6.2	5.1	3.8 2.5	5 1.5	0.9	0.5	0.3 (0.2
ETENTIO	UNDER 0.7	0.8	0.8	1.0 2.	0 5.7	6.0	6.0	5.3	4.4	3.5 2	.7 1.	9 [.] 1.3		0.5	0.3	0.2	0.1	[.] 0.1	0.2	0.3	0.6	1.0	1.7	2.6	[.] 3.7	4.5	[.] 5.2	[.] 4.6		$\langle \rangle$	$\langle \rangle \rangle$			$\langle \rangle \rangle$								4.7	5.3	4.5	3.6 2.6	3 1.6	1.0	0.6	0.3 (0.2
WALER WALER BOT	0.8	0.9	0.9	1.11 18 W	9 [.] 5.7	6.2	6.2	5.5	4.6	3.6 2	.6 1.	8 1.2	0.8	0.5	0.3	0.2	0.1	[.] 0.1	0.2	0.4	0.7	1.1	1.8	2.5	3.4	4.2	4.6	[.] 4.5		$\langle \rangle$	$\langle \rangle \rangle$		$\langle \rangle \rangle$	$\langle \rangle \rangle$								4.5	4.6	4.1	3.3 2.5	5 1.7	[`] 1.1	0.6	0.3 (0.2
PURIC LONC	0.8	1.2	1.2	1.4 %2.	9 6.0	6.8	6.9	5.9	4.9	3.6 2	.5 1.	6 1.1	0.7	0.4	0.3	0.2	0.1	[.] 0.1	0.2	0.4	0.6	[.] 1.1	1.7	2.5	3.4	4.2	4.7	[.] 4.5								$\langle \rangle \rangle$			$\langle \rangle \rangle$	$\langle \rangle \rangle$		4.5	4.6	4.1	3.3 2.5	5 1.7	1.1	0.6	0.3 (0.2
	0.9	1.4	1.7	2.1 4.	0 [·] 7.9	8.3	7.7	6.3	4.9	3.4 2	.3 1.	5 0.9	0.6	0.4	0.2	0.2	0.1	[.] 0.1	0.2	0.3	0.6	1.0	1.6	2.6	3.7	4.6	·5.3	[.] 4.6								$\langle \rangle \rangle$					$\langle \rangle \rangle$	4.6	5.2	4.5	3.6 2.5	5 1.6	0.9	0.5	0.3 (0.2
	0.9	1.6	2.2	3.1 4.	6 10.8	10.2	8.4	6.2	4.6	3.2 2	.1 1.	3 0.8	0.5	0.3	0.2	0.2	0.1	0.1	0.2	0.3	0.5	0.8	1.4	2.4	3.8	5.1	6.2	[.] 6.0				$\langle \rangle \rangle$				$\langle \rangle \rangle$		$\langle \rangle \rangle$				6.0	6.1	5.0	3.7 2.3	3 1.4	.0.8	[.] 0.4	0.3 (0.2
	[`] 1.1	1.8	2.5	3.6 4.	9 10.4	10.0	8.3	6.1	4.5	3.1 2	.0 1.	3 0.8	0.5	0.3	0.2	0.2	0.1	0.1	0.2	0.2	0.4	0.7	1.2	2.2	3.5	5.1	7.2															8.6 B-4	7.1	5.0	3.4 2.1	1 1.2	0.7	0.4	0.2 (0.1
	1.2	2.0	2.4	2.8 4.	4 7.8	8.0	7.6	5.9	4.6	3.2 2	.1 1.	3 0.8	0.6	0.4	0.2	0.2	0.1	0.1	0.2	0.2	0.4	0.6	[.] 1.2	2.1	3.4	4.9	6.7	7.6	ָ ⁰ .3 ໍ (0.5	1:0 1:1.	6 2.5	3.3	4.8	8.2 B-	8.1 4	1.8 3.3	2.5	1.6	0.9	0.5 0.	3 7.7	6.6	4.8 *	3.3 2.(ງ 1,1	, 0.6 , 0.6	0.4	0.2 (0.2
	1.4	2.1	2.5	2.8 4.	0 6.6	6.9	6.7	5.4	4.3	3.2 2	.2 1.	5 1.0	0.6	0.4	0.3	0.2	0.1	[.] 0.1	0.2	0.2	0.4	0.6	1.2	2.1	3.2	4.3	5.2	4.9	[.] 0.3 [.] (0.6	1.0 1.	7 2.6	· 3.9	5.3	.7.0 •	7.0 :	5.2 [·] 3.8	2.6	1.6	1.0	0.6 0.	.3 [.] 5.0	5.2	4.2	3.2 2.0) [.] 1.1	0.6	0.4	0.2 (0.2
	1.6	2.2	2.8	3.3 4.	1 6.8	6.7	6.1	4.9	3.9	3.1 2	.3 1.	6 [`] 1.1	0.7	0.5	0.3	0.2	0.2	0.1	0.2	0.2	0.4	0.7	[`] 1.1	1.8	2.5	3.1	3.8	[.] 3.5	0.9	0.6 ···	1.1 ['] 1.	7 2.4	3.4	4.6	5.1	5.1 [.] 2	l.6 3.3	2.4	1.7	1.0	0.6 0.	.7 3.5	3.8	3.1	2.5 . 1.8	3 1.1	0.7	0.4	0.3 (0.2
	1.8	2.4	3.1	4.0 5.	1 [`] 7.0	6.8	6.0	4.9	4.0	3.1 2	.4 1.	8 1.3	0.9	0.6	0.4	0.3	0.2	0.2	0.2	0.2	0.4	0.6	1.0	1.4	[.] 1.8	2.2	2.5	2.6	1.3 (0.6 .0	0.9 [.] 1.	4 1.9	2.7	3.4	3.4	3.4	3.4 2.7	1.9	1.4	0.9	0.6 0.	.9 2.6	2.6	2.2	1.8 . 1.4	4 1.0	0.6	0.4	0.3 (0.3
	1.3	2.7	3.5	4.5 6.	0 [`] 7.7	7.1	6.3	5.4	4.3	3.4 2	.6 1.	9 [.] 1.4	0.9	0.6	0.4	0.3	0.2	0.2	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.6	[.] 1.6	1.7	0.9 (0.5 .0	0.7 [.] 1.	.1 1.4	1.9	2.1	2.0	2.0 2	2.1 1.9	1.4	1.1	0.7	0.5 0.	.6 1.7	1.7	1.6	1.3 ¹ .() O.8	0.6	0.4	0.4 (0.4
	0.5	1.7	3.7	4.7 6.	7 [.] 8.5	8.1	6.8	5.9	4.7	3.5 2	.6 1.	9 1.3	0.9	0.6	0.4	0.3	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.0	[.] 1.0	.11		0.4 (0.5 0.	.8 .1.0) 1.2	1.2	1.1	1.1	i.2 [.] 1.2	· 1.0	0.8	0.5	0.4 0.	.6 1.1	1.0	1.0	0.9 0.7	7 0.6	0.5	0.4	0.4 (0.4
	0.5	0.8	1.8	5.2 8.	1 [`] 9.7	9.0	7.4	5.9	4.5	3.4 2	5 [°] 1.	8 1.3	0.9	0.6	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.6	0.6	0.6	0.3 (0.3 .	0.4 0.	.5 0.6	0.6	0.6	0.5	0.5 ().6 0.6	0.6	0.5	0.4	0.3 0.	.4 0.6	0.6	0.6	0.6 0.4	5 [.] 0.4	0.4	0.4	0.4 (0.5
	0.5	0.7	1.2 —	2.9 7 .	4 4.12.2	7.9	6.4	5.5	4.1	3.1 2	.3 1.	7 1.2	0.8	0.6	-0.4	0.3		0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4		l 0.2 (0.2 (). <u>3</u> 0.	.3 0.3	<u>0.3</u>	0.3	0.3	0.3 ().3 0.3	0.3	0.3	0.3	. <u></u>	2 0.4	0.4	<u>0.4</u>	0.4 0.1	3 0.3	<u> </u>	0.3	-0.4(0.4
	0.6	0.8	1.3	2.4 2.	5 4.8	6.1	4.9	4.3	3.7	2.8 2	.1 [.] 1.	6 ¹ .1	0.8	0.5	0.4	0.3	[.] 0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1 (0.2 0.	.2 0.2	2	0.1	0.1	0.1 ().1 ^{.0.2}	0.2	0.2	0.2	0.1 0.	.2 0.2	0.2	0.2	0.2 0.2	2 0.2	0.3	0.3	0.3	0.4
409	.11' (R) [°] 0.6	0.9	1.1	1.9 2.	3 2.0	2.5	3.6	3.5	2.9	2.2 1	.7 .1.	3 0.9	0.6	0.4	0.3	0.2	0.2	0.1	0.1	0.1	[.] 0.1	[.] 0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1 (0.1 (0.1 [°] 0.	.1 0.1	0.1	0.1	0.1	0.1 ().1 [`] 0.1	0.1	0.1	0.1	0.1 0.	.1 0.1	0.1	0.1	0.1 0.2	2 0.2		0.2	0.3 (0.4
															0	Ĩ										008/07						¢	1		s	30.24' (88*18'47" v	[M]) / (R)													
				13+0	0								14+00										15+00			LONCH	VETE GURB					16+00)							17	7+00							1	8+00	
																													CHIC	AGO	ال	urf ((66' DRIN	'r.o.w.) Æ																
							9	4		8	7	~	· · · · ·		- \														91119/		U	كا بن ب	<u> </u>																	

Plan View Scale - 1" = 30ft

