



**GENERAL REQUIREMENTS:**

- ALL WORK SHALL BE IN CONFORMANCE WITH THE APPLICABLE SECTIONS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION (DOT) "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (HEREIN AFTER REFERRED TO AS STANDARD SPECIFICATIONS) ADOPTED APRIL 1, 2016 AND SUPPLEMENTAL SPECIFICATIONS, WITHIN THE STANDARD SPECIFICATIONS, ARTICLES 105.01, 105.09, 105.10, 105.11, 105.12, 105.13 AND SECTION 109 SHALL NOT BE INCORPORATED INTO THIS CONTRACT.
- SCOPE OF WORK: THE PROPOSED IMPROVEMENTS CONSIST OF SUPPLYING ALL THE NECESSARY LABOR, MATERIAL AND EQUIPMENT TO SATISFACTORILY CONSTRUCT AND INSTALL ALL IMPROVEMENTS ACCORDING TO THE PLANS DESIGNATED HEREIN.
- CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO LOCATE AND PROTECT ALL UNDERGROUND FACILITIES DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS AND CONTACT THE OWNER. ANY DAMAGE TO ANY UTILITIES SHALL BE PROMPTLY REPORTED TO THE OWNER. REPAIRS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE UNDERGROUND UTILITIES SHOWN HEREIN ARE APPROXIMATE AND BASED ON THE ACTUAL LOCATION OF SURFACE STRUCTURES AND PLANS PROVIDED BY THE OWNER. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVE GROUND UTILITY LOCATION, IDENTIFICATION, AND MARKING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS ASSOCIATED WITH BURIED AND ABOVEGROUND UTILITIES REMAINS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS.
- THE CONTRACTOR SHALL FURNISH, ERECT, AND MAINTAIN MARKINGS AND ASSOCIATED HAZARD WARNING LIGHTS, DELINEATOR FENCE, AND OTHER ASSOCIATED FACILITIES AS REQUIRED FOR OPEN TRENCHES, EXCAVATIONS, TEMPORARY STOCK PILES, AND PARKED CONSTRUCTION EQUIPMENT THAT MAY POSE A POTENTIAL HAZARD AS PART OF THE DAILY OPERATIONS AT THIS SITE. CONTRACTOR IS SOLELY RESPONSIBLE FOR SITE SAFETY.
- CONTRACTOR SHALL CONTINUOUSLY COMPARE ALL LINES, GRADES, AND OTHER INFORMATION APPEARING ON THE PLANS WITH THE ACTUAL LINES, GRADES, AND SITE CONDITIONS. ANY DISCREPANCIES THAT MAY AFFECT THE PERFORMANCE OF THE WORK IN ACCORDANCE WITH THE INTENT OF THE CONTRACT DOCUMENTS SHALL BE IMMEDIATELY REPORTED TO THE OWNER AND ENGINEER IN WRITING FOR THE CONTRACTOR BEFORE CONTRACTOR PROCEEDS WITH THE WORK. CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR THE WORK COMPLETED PRIOR TO THE REPORT TO THE OWNER AND ENGINEER, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION OF THE WORK PRIOR TO THE REPORT TO THE OWNER AND ENGINEER.
- CONTRACTOR PARKING AND LAYDOWN AREAS SHALL BE COORDINATED WITH THE OWNER.
- PRIOR TO PERFORMING ANY WORK IN OR ON THE RIGHT OF WAY OF ANY CITY OR STATE ROADWAY, THE CONTRACTOR SHALL NOTIFY THE CITY / STATE TRAFFIC ENGINEER'S OFFICE. THE CONTRACTOR SHALL ERECT WARNING SIGNS AND BARRICADES TO PROTECT THE TRAVELING PUBLIC AND HIS WORKERS. THE SIGNING AND BARRICADING SHALL CONFORM TO THE APPROPRIATE APPLICATIONS OUTLINED IN THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES OR AS OTHERWISE DIRECTED BY THE CITY / STATE TRAFFIC ENGINEER. IF PERMITS ARE REQUIRED TO CONDUCT THE WORK, THE CONTRACTOR SHALL SECURE THE PERMITS AND SUPPLY THEM TO THE OWNER AT NO ADDITIONAL COST. ALL FULL WIDTH LANE CLOSURES, PARTIAL LANE CLOSURES, AND CONSTRUCTION ADJACENT TO PAVEMENT SHALL BE IDENTIFIED, SIGNED, AND BARRICADES ERECTED IN CONFORMANCE WITH THE APPLICABLE ARTICLES OF SECTION 701 OF THE STANDARD SPECIFICATIONS AND THE MUNICIPALITY'S REQUIREMENTS. ALL TRAFFIC PROTECTION, BOTH ONSITE AND OFFSITE, SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- CONTRACTOR SHALL REMOVE EARTHEN MATERIALS, EXISTING SURFACES, AND STRUCTURES AS REQUIRED. ALL WASTE MATERIAL SHALL BE PROPERLY DISPOSED OFF-SITE AND SHALL BE INCIDENTAL TO THE CONTRACT.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, UNLESS NOTED. THIS WILL INCLUDE BUT NOT BE LIMITED TO MUNICIPAL BUILDING PERMIT. THE OWNER WILL SECURE THE N.P.D.E.S. PERMIT. THE CONTRACTOR SHALL PROVIDE ANY FINANCIAL SURETIES REQUIRED AS PART OF ANY PERMIT.
- WHEN CONCRETE IS PLACED ABUTTING STRUCTURES, FOUNDATIONS OR EXISTING SIDEWALKS, A BOND BREAKER CONSISTING OF 1" P.J.F. AND ELASTOMERIC JOINT SEALANT SHALL BE USED FULL DEPTH UNLESS OTHERWISE NOTED.
- MAXIMUM CONTRACTION JOINT SPACING ON CONCRETE CURB AND GUTTER OR CONCRETE GUTTER SHALL NOT EXCEED 25'.
- SIDEWALK RAMPS FOR ADA SHALL BE IN ACCORDANCE WITH THE DETAILS SHOWN HEREIN. DETECTABLE WARNINGS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- HOT-MIX ASPHALT PAVEMENT PATCHING SHALL BE IN ACCORDANCE WITH SECTION 442 OF THE STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND SUBMITTING ELECTRONIC AS-BUILT DRAWINGS, FOR UTILITIES AND DETENTION AREAS, TO THE OWNER AND ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PROJECT ACCEPTANCE.
- CONSTRUCTION STAKING, LAYOUT, AND GRADING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR USING THE BASIC TOPOGRAPHIC SURVEY CONTROL IN THE PLANS. CONTRACTOR SHALL VERIFY SURVEY CONTROL POINTS PRIOR TO BEGINNING CONSTRUCTION. ANY DISCREPANCIES IN THE SURVEY CONTROLS SHALL BE REPORTED TO THE OWNER AND ENGINEER PRIOR TO CONSTRUCTION. ANY ADDITIONAL SURVEY CONTROLS REQUIRED FOR CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL COORDINATE ALL UTILITY LINE CROSSINGS TO ENSURE ALL PIPES MAINTAIN MINIMUM COVER, MINIMUM CLEARANCES, AND PROPER SEPARATION. GRAVITY LINES SHALL HAVE PRECEDENCE OVER PRESSURIZED LINES.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL ITEMS INCORPORATED INTO THE WORK FOR ENGINEER REVIEW AND APPROVAL A MINIMUM OF 4 WEEKS PRIOR TO ORDERING.
- REFERENCES TO "INSPECTION" OR "INSPECTOR" IN THE SPECIFICATIONS SHALL NOT CREATE, IMPOSE, OR GIVE RISE TO ANY DUTY OWED BY THE OWNER OR ENGINEER TO THE CONTRACTOR, ANY SUBCONTRACTOR, OR ANY SUPPLIER. ALL IMPROVEMENTS SHALL BE SUBJECT TO INSPECTION BY A DULY AUTHORIZED AND QUALIFIED OWNER'S REPRESENTATIVE BOTH DURING THE COURSE OF CONSTRUCTION AND AFTER CONSTRUCTION IS COMPLETE. THE INSPECTOR SHALL HAVE AUTHORITY OVER MATERIALS OF CONSTRUCTION, METHODS OF CONSTRUCTION AND WORKSMANSHIP TO ENSURE COMPLIANCE WITH WORKING DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE FOR REASONABLE TESTS AND PROOF OF QUALITY OF MATERIALS AS REQUESTED BY THE INSPECTOR. UPON DUE CAUSE, WHICH SHALL INCLUDE WEATHER CONDITIONS, WORKSMANSHIP OR NON-ADHERENCE TO THE APPROVED PLANS AND SPECIFICATIONS, THE INSPECTOR SHALL HAVE THE AUTHORITY TO STOP CONSTRUCTION.
- WHERE SECTION, SUB-SECTION, SUBDIVISION, OR PROPERTY MONUMENTS ARE ENCOUNTERED, THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL PROPERTY MARKERS UNTIL AN OWNER OR AUTHORIZED SURVEYOR HAS WITNESSED OR REFERENCED THEIR LOCATION.
- ALL TRENCH BACKFILL SHALL BE IMPORTED GRANULAR MATERIAL UNLESS EXISTING GRANULAR MATERIALS ARE SPECIFICALLY APPROVED BY THE OWNER'S REPRESENTATIVE.
- ALL AGGREGATE BASE COURSE SHALL BE COMPACTED TO 98% STANDARD PROCTOR DENSITY.
- ALL AGGREGATE BASE AREAS TO BE PAVED (PAVEMENT, SIDEWALK, CURB, OR STRUCTURES) SHALL BE PROOF-ROLLED WITH SEVERAL PASSES OF A FULLY ROLLED DUMP TRUCK. CONTRACTOR SHALL NOTIFY THE OWNER AND/OR ENGINEER 24 HOURS PRIOR TO PROOF ROLL AND SHALL MAKE ALL CORRECTIONS TO PROVIDE A SATISFACTORY SUBGRADE.
- ANY UNCONTROLLED CRACKING THAT OCCURS IN CONCRETE PAVEMENT, SIDEWALK, CURB, OR CURB AND GUTTER PRIOR TO FINAL ACCEPTANCE SHALL BE ROUTED OR SAWED AND SEALED ACCORDING TO THE STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES PRIOR TO ANY WORK IN AND AROUND UTILITY-OWNED INFRASTRUCTURE AND MAKE THEM AWARE OF WORK TO BE PERFORMED.
- ALL SIDEWALKS SHALL BE 6 INCHES IN THICKNESS AND CONSTRUCTED TO THE WIDTH SHOWN ON THE PLANS. ALL SIDEWALKS SHALL BE CONSTRUCTED WITH A MIN. CROSS SLOPE OF 1% AND A MAX. CROSS SLOPE OF 2%. SIDEWALK THICKNESS SHALL BE INCREASED TO A MINIMUM 6" AT DRIVEWAYS OR AS REQUIRED BY THE MUNICIPALITY.
- ANY SIDEWALKS, FENCES, AND OTHER ITEMS NOT SHOWN TO BE REMOVED, BUT DAMAGED DURING CONSTRUCTION, SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.
- CONTRACTOR SHALL NOTIFY THE APPROPRIATE AGENCY A MINIMUM OF 48 HOURS PRIOR TO CONNECTING TO OR INSTALLING ANY PUBLIC SEWER OR WATER MAINS.
- PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE PROJECT SITE. IN ADDITION, THE CONTRACTOR MUST VERIFY THE ENGINEER'S LINE AND GRADE STAKES. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, THE CONTRACTOR MUST IMMEDIATELY PROVIDE THE INFORMATION TO THE ENGINEER BEFORE DOING ANY WORK. OTHERWISE, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTIONS FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK EFFECTED BY OMISSIONS OR DISCREPANCIES. IF THE CONTRACTOR FAILS TO SECURE WRITTEN INSTRUCTIONS FROM THE ENGINEER, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTION ARISING WITH RESPECT TO SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL.

**EXISTING TOPOGRAPHY:**

- ALL UTILITIES SHOWN ARE APPROXIMATE ONLY AND ARE DERIVED FROM EXISTING UTILITY MARKINGS, OLD SITE PLANS, UTILITY COMPANY MAPS, PRIVATE LOCATOR AND OBSERVED EVIDENCE.

- ALL PIPE SIZES REFERENCED HEREON ARE SHOWN ACCORDING TO UTILITY COMPANY MAPS, OLD SITE PLANS AND OBSERVED EVIDENCE. ALL PIPE SIZES AND INVERTS SHOULD BE VERIFIED PRIOR TO ANY CONSTRUCTION.
- PRIOR TO ANY EXCAVATION CONTRACTORS SHALL CALL THE TOLL FREE J.U.L.I.E. TELEPHONE NUMBER 1-800-892-0123. ALLOW 48 HOURS FOR LOCATIONS OTHER THAN EMERGENCY ASSISTANCE.

**SITE DEMOLITION:**

- EXISTING UTILITIES TO REMAIN, WHICH ARE DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION, SHALL BE REPAIRED AND/OR REPLACED WITHOUT ADDITIONAL COMPENSATION. CONFLICTS WITH PROPOSED CONSTRUCTION AND UTILITIES TO REMAIN ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONSTRUCTION MANAGER FOR COORDINATION WITH THE OWNER'S REPRESENTATIVE, ENGINEER, AND UTILITY COMPANY.
- NO DEMOLITION OR CONSTRUCTION ACTIVITIES SHALL TAKE PLACE WITHIN PUBLIC RIGHT-OF-WAY UNTIL ALL PERMITS ARE SECURED.
- ALL PAVEMENT TO BE REMOVED SHALL BE SAWCUT FULL DEPTH.
- CONTRACTOR SHALL EMPLOY ALL MEASURES NECESSARY DURING DEMOLITION TO CONTROL EROSION AND INSURE THAT SEDIMENT DOES NOT LEAVE THE SITE. TRACKING OF DIRT ONTO PUBLIC STREETS AND EXISTING PARKING LOT SHALL BE CLEANED IMMEDIATELY, AND ALL SEDIMENT AND EROSION CONTROL ITEMS SHALL BE INSTALLED PRIOR TO CLEARING AND DEMOLITION WORK.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING SITE CONDITIONS AND BECOMING FAMILIAR WITH ALL CONSTRUCTION DOCUMENTS.
- ITEMS INDICATED TO BE REMOVED SHALL BE COMPLETELY REMOVED UNLESS INDICATED OTHERWISE.
- ALL TREES AND BRUSH IDENTIFIED TO BE REMOVED SHALL BE REMOVED COMPLETELY, INCLUDING ROOT BALLS.
- UNLESS OTHERWISE IDENTIFIED AND/OR NOTED ON THE DEMOLITION PLAN, CONTRACTOR SHALL FULLY DEMOLISH, REMOVE, AND LAWFULLY DISPOSE OF ALL EXISTING BUILDINGS, IMPROVEMENTS, AND RELATED APPURTENANCES AT THIS SITE AND PROPERTY. CONTRACTOR SHALL ALSO DEMOLISH, REMOVE, AND LAWFULLY DISPOSE OF EXISTING IMPROVEMENTS AND CONSTRUCTIONS IN THE PUBLIC RIGHT-OF-WAY NECESSARY TO ACCOMPLISH THE NEW PROJECT WORK DESCRIBED ELSEWHERE IN THESE BIDDING AND CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL PROCURE ALL NECESSARY PERMITS AND APPROVALS FOR SUCH DEMOLITION WORK (BOTH INSIDE THE PROPERTY LINE AND IN THE PUBLIC RIGHT-OF-WAY) PRIOR TO COMMENCING ANY DEMOLITION OPERATIONS.
- CONTRACTOR SHALL FULLY PROTECT ALL SURROUNDING PROPERTIES FROM ANY AND ALL DAMAGE DURING DEMOLITION OPERATIONS, AND SHALL BE FULLY RESPONSIBLE FOR REPAIRING (TO A CONDITION ACCEPTABLE TO THE OWNER AND ARCHITECT) ANY AND ALL DAMAGE THAT DOES OCCUR.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROLS AND RELATED APPURTENANCES THAT ARE REQUIRED BY ANY APPLICABLE CODES AND ORDINANCES, DURING ALL DEMOLITION OPERATIONS.
- CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE SAFETY AND SECURITY OF THE PROJECT SITE AND ITS SURROUNDINGS DURING DEMOLITION OPERATIONS.
- ALL DEMOLISHED EXISTING MATERIALS, SYSTEMS, AND CONSTRUCTIONS SHALL BE DISPOSED OF IN A LAWFUL MANNER, AND WRITTEN RECORDS OF THE FINAL DESTINATION FOR THESE MATERIALS, SYSTEMS, AND CONSTRUCTIONS SHALL BE PROVIDED TO THE OWNER AND ENGINEER.
- EXISTING SITE SHALL BE CLEANED ON A DAILY BASIS THROUGHOUT THE DURATION OF DEMOLITIONS OPERATIONS, AND NO DEBRIS OR PRODUCTS OF DEMOLITION SHALL BE ALLOWED TO ACCUMULATE OUTSIDE THE BOUNDARIES OF THE SITE.
- CONTRACTOR SHALL FULLY COORDINATE ALL PROJECT DEMOLITION OPERATIONS, INCLUDING THE REMOVAL AND LAWFUL DISPOSAL OF ALL MATERIALS AND SYSTEMS.
- CONTRACTOR SHALL SUBMIT A COMPLETE WRITTEN PLAN AND SCHEDULE FOR ALL PROPOSED DEMOLITION WORK TO OWNER AND ARCHITECT FOR REVIEW AND COMMENT, PRIOR TO BEGINNING ANY SUCH OPERATIONS. DURING THE COURSE OF THIS DEMOLITION WORK, IF ANY ARTIFACTS OR OTHER UNUSUAL ITEMS ARE DISCOVERED, CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER IMMEDIATELY, BEFORE PROCEEDING ANY FURTHER. ANY EXPENSES RESULTING FROM THE FAILURE TO PROVIDE SUCH IMMEDIATE NOTIFICATION SHALL BE BORNE BY THE CONTRACTOR.

**SITE LAYOUT:**

- JOINTS IN SIDEWALK SHALL BE TOOLED AT 5' MAX. INTERVALS, UNLESS INDICATED OTHERWISE.
- NORTHING-EASTING COORDINATES AND DIMENSIONS FOR CURB AND GUTTER ARE TO FACE OF CURB.
- CONTRACTOR SHALL COORDINATE ALL WORK WITHIN PUBLIC RIGHT-OF-WAY WITH THE APPROPRIATE PUBLIC AGENCY. NOTIFICATION SHALL OCCUR A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK WITHIN PUBLIC RIGHT-OF-WAY. ALL PERMITS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- P.C. CONCRETE PAVEMENT AND SIDEWALKS SHALL BE CLASS PV AND CLASS SI, RESPECTIVELY, IN ACCORDANCE WITH THE IDOT STANDARD SPECIFICATIONS.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING SITE CONDITIONS AND BECOMING FAMILIAR WITH ALL CONSTRUCTION DOCUMENTS.
- SEE ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS AND DOOR LOCATIONS.
- CONTRACTOR SHALL COORDINATE EQUIPMENT PADS WITH EQUIPMENT MANUFACTURERS.
- THREE (3) DRILLED AND GROUTED NO. 5 REINFORCING BARS OR EXPANSION TIE ANCHORS, 5/8" IN DIAMETER, SHALL BE USED TO TIE THE NEW CURB AND GUTTER TO THE EXISTING CURB AND GUTTER ON EACH SIDE.

**SITE GRADING AND EROSION CONTROL:**

- ENGINEERED STRUCTURAL FILLS SHALL BE INCLUDED IN OVERALL SITE DEVELOPMENT TO PROVIDE ADEQUATE STRUCTURAL SUPPORT FOR THE FLOOR SLABS ON GRADE AND ADJOINING PAVEMENT AREAS. REFER TO THE GEOTECHNICAL REPORT FOR APPROVED FILL MATERIALS.
- WHERE FIRM FOUNDATION MATERIAL IS NOT ENCOUNTERED AT THE GRADE ESTABLISHED, DUE TO UNSUITABLE SOIL, ALL SUCH UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED WITH APPROVED COMPACTED GRANULAR MATERIAL.
- TOPSOIL SHALL BE STRIPPED IN ALL STRUCTURAL FILL AREAS BEFORE PLACEMENT OF FILL MATERIAL AND SHALL BE STOCKPILED IN AREAS DESIGNATED BY THE OWNER OR PER PLAN.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM EARTHWORK CALCULATIONS BASED ON THE PROVIDED PLANS AND TO LAWFULLY DISPOSE OF AND REMOVE ANY EXCESS MATERIAL FROM THE PROJECT SITE, OR TO PROVIDE ANY NECESSARY FILL MATERIAL THAT MAY BE REQUIRED TO MEET THE FINAL PLAN GRADES. THE DISPOSAL OR PROVIDING OF MATERIAL SHALL BE INCIDENTAL TO THE CONTRACT.
- ALL VEGETATIVE AND STRUCTURAL EROSION CONTROL PRACTICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE "ILLINOIS URBAN MANUAL."
- THE OWNER/ENGINEER SHALL PROVIDE THE SOIL EROSION AND SEDIMENT CONTROL PLANS INCLUDED HEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTATION OF THE STORMWATER POLLUTION PREVENTION PLAN BOOKLET AND ASSOCIATED DOCUMENTS IN ACCORDANCE WITH THE "GENERAL NPDES PERMIT FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES;" AND A COPY SHALL BE KEPT ONSITE AT ALL TIMES.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE INSTALLATION, ALL INSPECTIONS, AND MAINTENANCE OF ALL EROSION CONTROL FACILITIES REQUIRED BY THE GENERAL NPDES PERMIT UNTIL FINAL STABILIZATION OF ALL AREAS DISTURBED BY CONSTRUCTION OCCURS. MAINTENANCE AND REPLACEMENT OF EROSION CONTROL ITEMS SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT.
- WEEKLY NPDES INSPECTION REPORTS (AND THOSE REQUIRED AFTER 1/2" OF RAINFALL) SHALL BE SENT VIA EMAIL TO NPDES@ROMEORVILLE.ORG.
- ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITY MUST BE SEEDED, SODDED, BLANKETED OR OTHERWISE PROTECTED WITHIN 14 DAYS OF FINAL DISTURBANCE. ALL AREAS DISTURBED BY THE CONTRACTOR DURING THE CONSTRUCTION OF THIS PROJECT WHICH ARE LOCATED OUTSIDE OF THE PROPOSED SEEDING LIMITS SHALL BE GRADEN TO DRAIN, FERTILIZED, SEEDED, MULCHED AND WATERED. THE COST ASSOCIATED WITH THE PLACEMENT OF ADDITIONAL FERTILIZER, SEED, MULCH AND WATERING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. A MINIMUM OF 70% VEGETATIVE COVERAGE IS REQUIRED PRIOR TO ACCEPTANCE. SEE LANDSCAPE PLANS FOR ADDITIONAL REQUIREMENTS.
- ALL EROSION CONTROL MEASURES SHOWN ON THE PLAN ARE THE MINIMUM MEASURES REQUIRED. UNFORESEEN CHANGES IN SCOPE, SCHEDULE OR CONSTRUCTION METHODS MAY RESULT IN CHANGES OR ADDITIONS TO THIS PLAN AND THE SWPPP. ANY CHANGES OR ADDITIONS NECESSARY TO MAINTAIN COMPLIANCE WITH THE NPDES PERMIT SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE OWNER.
- SHOULD PROJECT SCHEDULING PROHIBIT THE ABILITY TO SEED DISTURBED EARTH UPON COMPLETION OF GRADING, CONTRACTOR SHALL EMPLOY ALTERNATE SOURCE CONTROLS IN ADDITION TO THOSE ON THIS PLAN, INCIDENTAL TO THE CONTRACT.
- DUST CONTROL MUST BE PROVIDED AS NEEDED, BY WATERING OR OTHER MEANS.
- ALL AREAS WITH THE EXCEPTION OF PAVEMENT SHALL BE FINISHED IN ACCORDANCE WITH THE LANDSCAPE PLANS INCLUDED IN THE PLAN SET.
- CONTRACTOR SHALL INSTALL INLET FILTER PROTECTION BASKETS INSIDE ALL EXISTING AND PROPOSED MANHOLES AND INLET FRAMES.
- CONTRACTOR IS REQUIRED TO PROVIDE AND USE A CONCRETE WASHOUT AREA FOR RINSING CONCRETE TRUCKS.
- CONTRACTOR IS REQUIRED TO PROVIDE AND USE A TEMPORARY CONSTRUCTION ENTRANCE FOR ALL CONSTRUCTION TRAFFIC PER PLAN.

- CONTRACTOR SHALL PROVIDE AND USE A WHEEL WASH SYSTEM TO ENSURE THAT ALL CONSTRUCTION TRAFFIC ENTERING AND EXITING THE SITE MAINTAIN CLEAN TIRES. ANY SEDIMENT TRACKED ONTO ADJACENT ROADWAYS OR PAVED AREAS SHALL BE REMOVED BY THE CONTRACTOR BY THE END OF THE SAME WORK DAY.
- ALL ELEVATIONS SHOWN ARE TO FINISHED PAVEMENT UNLESS SPECIFIED OTHERWISE.
- ALL SLOPES GREATER THAN OR EQUAL TO 4:1 SHALL BE STABILIZED WITH NAG 5758B OR EQUIVALENT.
- CONTRACTOR SHALL PROVIDE A MINIMUM OF 6" TOPSOIL IN ALL ISLANDS, LANDSCAPE AREAS, AND OPEN SPACES.

**SITE UTILITIES:**

- THIS CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
  - "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", CURRENT EDITION.
  - ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION"
  - VILLAGE OF ROMEORVILLE OFFICE OF PUBLIC WORKS STANDARDS AND SPECIFICATIONS
- ALL UTILITY TRENCHES UNDER OR WITHIN 2' OF EXISTING OR PROPOSED PAVEMENT OR BUILDING SHALL BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL IN ACCORDANCE WITH IDOT SPECIFICATIONS. CONTROLLED LOW-STRENGTH MATERIAL (CLSM) SHALL BE USED TO BACKFILL TRENCHES WITHIN PUBLIC RIGHT OF WAY. THE CLSM SHALL EXTEND 2 FT PAST THE PROPOSED PAVEMENT, CURB, OR SIDEWALK.
- OPEN CUT TRENCHES SHALL BE SHEETED AND BRACED AS REQUIRED BY THE GOVERNING STATE, FEDERAL LAWS AND MUNICIPAL ORDINANCES, AND AS MAY BE NECESSARY TO PROTECT LIFE, PROPERTY OR THE WORK.
- CONTRACTOR SHALL AT ALL TIMES DURING CONSTRUCTION PROVIDE AND MAINTAIN SUFFICIENT MEANS AND DEVICES TO REMOVE AND PROPERLY DISPOSE OF ALL WATER ENTERING THE EXCAVATIONS. WATER SHALL BE FILTERED AND DISCHARGED IN ACCORDANCE WITH THE NPDES REQUIREMENTS.
- ALL PIPE SHALL BE INSTALLED ON A BEDDING OF APPROVED, COMPACTED GRANULAR MATERIAL UNLESS OTHERWISE APPROVED BY THE ENGINEER. THE BEDDING MATERIAL SHALL BE INSTALLED PER STANDARD SPECIFICATIONS AND PROVIDED PLAN DETAILS.
- A MINIMUM HORIZONTAL SEPARATION OF 10 FEET SHALL BE MAINTAINED BETWEEN ALL WATER MAINS AND SEWERS. IF SEPARATION IS NOT POSSIBLE, WATER MAIN ENCASEMENT SHALL BE REQUIRED OR THE SEWER SHALL BE CONSTRUCTED OF WATER MAIN QUALITY PIPE.
- WATER MAINS SHALL CROSS ABOVE SEWERS WITH A MINIMUM VERTICAL SEPARATION OF 18 INCHES WHILE STILL MAINTAINING THE REQUIRED DEPTH OF COVER. IF PROPER SEPARATION IS NOT POSSIBLE, OR IF THE WATER MAIN MUST BE ROUTED UNDER THE SEWER, WATER MAIN ENCASEMENT SHALL BE REQUIRED OR THE SEWER SHALL BE CONSTRUCTED OF WATER MAIN QUALITY PIPE.
- ALL SANITARY SEWERS SHALL BE TESTED FOR EXFILTRATION OF AIR UNDER PRESSURE, INFILTRATION OF WATER, AND/OR EXFILTRATION OF WATER AS PER STANDARD SPECIFICATIONS. ALL SANITARY SEWERS SHALL BE DEFLECTION TESTED NO SOONER THAN 30 DAYS AFTER INSTALLATION. ALL MANHOLES SHALL BE TESTED FOR WATERTIGHTNESS BY EITHER ASTM C 969 OR ASTM C 1244.
- WHEN UTILITY STRUCTURE ADJUSTMENT IS NECESSARY, A MINIMUM OF TWO (2) ADJUSTING RINGS (MIN. 6" ADJUSTING HEIGHT) AND MAXIMUM OF THREE (3) ADJUSTING RINGS (MAX. 10" ADJUSTING HEIGHT), NO 1" OR 2" CONCRETE RINGS ARE ALLOWED. UNDER PAVED AREAS, TOP RING SHOULD BE RUBBER. USE ONE (1) JUVI INFRA-RUBBER COMPOSITE.
- STORM SEWER SHALL BE IN CONFORMANCE WITH THE FOLLOWING:
  - JOINTS MUST BE FLEXIBLE GASKET O-RINGS PER ASTM C361, ASTM C433, AND ASTM C1619.
  - REINFORCED CONCRETE PIPE (RCP), ASTM C76
    - GASKETS - ASTM C443
    - FITTINGS - ASTM C443
  - SMOOTH INTERIOR WALLED HIGH DENSITY POLYETHYLENE PIPE (HDPE), ASTM D3212, N-12 WT
    - WATER TIGHT JOINTS
    - JOINT SHALL BE SEALED SUFFICIENTLY TO PREVENT JETTING OR LEAKING AT THE JOINT
  - FRAME AND GRATES - ALL FRAME AND GRATES MUST INCLUDE "DUMP NO WASTE" AND "DRAINS TO CREEK"
    - TYPE 1 CLOSED LID = EAST JORDAN 105021 EMBOSSED WITH "STORM" AND "VILLAGE OF ROMEORVILLE"
    - TYPE 1 OPEN LID = NEENAH R-2504 (OR APPROVED EQUAL)
    - TYPE 3 = NEENAH R-3281-A (OR APPROVED EQUAL)
    - DITCH GRATE = NEENAH R-4342 (OR APPROVED EQUAL)
- SANITARY SEWER SHALL BE IN CONFORMANCE WITH THE FOLLOWING:
  - PIPE AND FITTING MATERIAL - POLYVINYL CHLORIDE (PVC), ASTM D 3034, TYPE PSM
    - PIPES MUST BE PVC SDR 26 WHEN LESS THAN 15 FEET DEEP
    - PIPES MUST BE PVC SDR 21 WHEN 15-20 FEET DEEP
    - PIPES MUST BE PVC SDR 18 WHEN OVER 20 FEET DEEP
  - PIPES MUST HAVE A MINIMUM COVER DEPTH OF 5 FEET.
  - GASKETS - FLEXIBLE ELASTOMERIC, ASTM F 477, ASTM D 3139
  - JOINTS - ASTM D 3212. ALL JOINTS NEED TO BE EXTERNALLY WRAPPED (MINIMUM 9" WIDTH) WITH MACWRAP OR APPROVED EQUAL.
  - BEDDING - CLASS II, ASTM 2321
  - FRAME AND COVER - EAST JORDAN 105021 EMBOSSED WITH "SANITARY" AND "VILLAGE OF ROMEORVILLE"
  - EXTERNAL CHIMNEY SEALS ARE REQUIRED TO BE INSTALLED ON ALL NEW MANHOLES (AND EXISTING MANHOLES BEING ADJUSTED) AND SHALL CONFORM TO ASTM C923. ACCEPTABLE EXTERNAL CHIMNEY SEALS INCLUDE INFI-SHIELD UNI-BAND.
  - INTERNAL CHIMNEY SEALS ARE REQUIRED TO BE INSTALLED ON ALL NEW MANHOLES (AND EXISTING MANHOLES BEING ADJUSTED). INTERNAL CHIMNEY SEALS SHALL BE RAVEN 581 BRUSH GRADE, A 100% SOLIDS, FLUID APPLIED POLYURIA ELASTOMER REPAIR MATERIAL AS APPLIED PER THE FOLLOWING: FOR SURFACE PREPARATION, SURFACES SHOULD BE THOROUGHLY CLEAN AND DRY. CONCRETE AND MORTAR MUST BE CURED AT LEAST 7 DAYS AND NO FROST OR WET CONDITIONS CAN BE PRESENT DURING INSTALLATION. REMOVE ALL LOOSE MORTAR AND FOREIGN MATERIAL. SURFACE MUST BE FREE OF LAITANCE, CONCRETE DUST, DIRT, FROM 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.
    - ALL SANITARY MANHOLE CASTINGS, ADJOINING 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 OR RUBBER AND MASTIC. THE BAND SHALL HAVE AN OUTER LAYER OF RUBBER OR POLYETHYLENE AND 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.
  - ALL CLEANOUT RIMS SHALL BE CONSTRUCTED FLUSH WITH THE FINISHED GROUND SURFACE.
  - CONTRACTOR SHALL COORDINATE CONSTRUCTION OF SANITARY SEWER SERVICES WITH THE DEPARTMENT OF PUBLIC WORKS.
  - CONTRACTOR SHALL COORDINATE WATER MAIN, FIRE AND DOMESTIC WATER SERVICES WITH THE DEPARTMENT OF PUBLIC WORKS.
  - GENERAL CONTRACTOR SHALL COORDINATE ALL UTILITY LINES THAT ENTER THE BUILDING. IN GENERAL, PLUMBING PLANS SHOW ALL INTERIOR BUILDING PIPING AND PIPING UP TO 5-FEET OUTSIDE THE BUILDING. CIVIL PLANS SHOW SITE PIPING BEGINNING FROM 5-FEET OUTSIDE THE BUILDING. GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY CONNECTIONS.
  - CONTRACTOR SHALL COORDINATE ALL UTILITY LINE CROSSINGS TO ENSURE ALL PIPES MAINTAIN MINIMUM COVER, MINIMUM CLEARANCES, AND PROPER SEPARATION. GRAVITY LINES SHALL HAVE PRECEDENCE OVER PRESSURIZED LINES.
  - ALL TRENCH BACKFILL SHALL BE IMPORTED GRANULAR MATERIAL UNLESS EXISTING GRANULAR MATERIALS ARE SPECIFICALLY APPROVED BY THE OWNER'S REPRESENTATIVE.
  - ALL MANHOLES AND INLET CASTINGS LOCATED WITHIN BITUMINOUS ASPHALT PAVEMENT SHALL BE CONSTRUCTED WITH A CONCRETE APRON AT THE SURFACE.
  - FOR ALL WATERMAIN CONSTRUCTION:
    - WATER MAIN AND SERVICES TO BE INSTALLED WITH A MINIMUM OF 5' OF COVER FROM FINISHED GRADE TO TOP OF WATER PIPE.
    - ALL RESTRAINED JOINTS MUST BE RESTRAINED WITH MEGALUGS (EBAA IRON) ONLY AND SHALL MEET THE REQUIRED RESTRAINED LENGTHS PER EBAA RECOMMENDATIONS AND LOCAL SOIL CONDITIONS. RESTRAINED JOINT LENGTHS ARE SPECIFIED ON PLANS BUT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CONFIRM THAT EBAA RESTRAINED LENGTHS ARE MET.

- ALL WATERMAIN PIPE 4" AND LARGER SHALL BE DUCTILE IRON PIPE SPECIAL CLASS 52, 250 PSI RATING, WITH SINGLE GASKET JOINTS AND SHALL BE WRAPPED IN V-BIO POLYETHYLENE USING ALTERNATE MODIFIED METHOD A: WET TRENCH CONDITIONS. A LAYER OF ARC-SPRAYED ZINC PER ISO 8179 IS REQUIRED ON EXTERIOR OF PIPE.
- ALL WATER SERVICE PIPE LESS THAN 4" SHALL BE COPPER PIPE, TYPE K OR PVC SDR 9 WITH A PRESSURE RATING OF 200 PSI.
- PLEASE BE CONSCIOUS OF DAMAGING THE PAINT ON THE HYDRANTS DURING INSTALLATION. THE VILLAGE OF ROMEORVILLE HAS FOUND THAT THE PAINT ON THE HYDRANTS CAN BE DAMAGED DURING BACKFILLING. IF REQUESTED BY THE VILLAGE OF ROMEORVILLE 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 ROMEORVILLE WATER DEPARTMENT AT 815-886-1870 TO GET APPROVAL OF SAID USAGE. ANY UNAUTHORIZED USAGES WILL RESULT IN PENALTIES.
- ALL HYDRANTS MUST BE EAST JORDAN WATER MASTER 58R250, WITH 6" PLAIN-END SHOE WITH ATTACHED 6" RESILIENT WEDGE MECHANICAL JOINT, AND MUST INCLUDE STORZ PUMPER CONNECTION ALONG WITH TWO 2-1/2" HOSE CONNECTIONS.
- ALL VALVES BE RESILIENT-SEALED GATE VALVES AND MUST BE AMERICAN FLOW OR EAST JORDAN (FLOWMASTER).
- VALVE BOXES MUST BE TYLER SCREW TYPE C, CAST IRON, SERIES 6860 WITH NO. 160 OVAL BASE OR EAST JORDAN SCREW-TYPE, SERIES 5860 WITH #160 BASE. LIDS MUST BE MARKED WITH "WATER".
- ALL VALVES AND HYDRANTS SHALL BE SUBMITTED TO THE VILLAGE OF ROMEORVILLE WATER DEPARTMENT FOR WRITTEN APPROVAL PRIOR TO ORDERING.
- VALVE VAULTS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
  - ALL VALVE VAULTS SHALL BE A MINIMUM OF 5' DIAMETER.
  - FRAME AND COVER SHALL BE EAST JORDAN #105021 EMBOSSED WITH 1020A HD "WATER" AND "VILLAGE OF ROMEORVILLE"
  - ALL JOINTS NEED TO BE EXTERNALLY WRAPPED WITH MACWRAP (MINIMUM 9" WIDE) OR EQUAL.
  - RUBBER GASKETED BOOTS ARE REQUIRED FOR ALL PENETRATIONS THROUGH THE MANHOLE WALL EXCEPT FOR DOGHOUSE MANHOLES (I.E. REQUIRED FOR PRESSURE CONNECTIONS) WHERE BRICKMORTAR WITH HYDROPLUG CEMENT IS REQUIRED ON BOTH THE INSIDE AND OUTSIDE OF THE PENETRATION.
  - 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 EJIW INFRA-RISER RUBBER COMPOSITE ADJUSTMENT RISERS (MINIMUM 2" THICK).
  - 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 THE 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 APPROXIMATE 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 FLEXIBLE WATERTIGHT JOINTS, SHALL REMAIN WORKABLE OVER A WIDE TEMPERATURE RANGE AND SHALL NOT SHRINK OR OXIDIZE UPON AGING. MATERIAL SHALL BE EQUAL TO TYLOX SUPERSEAL AND SHALL MEET ASTM C443 AND ASTM C361 REQUIREMENTS.
  - THE FRAME FOR THE LID SHALL BE INSTALLED WHEN CONE SECTION IS CAST.
  - HEAT-SHRINKABLE ENCAPSULATION FOR EXTERNAL WRAPPING OF ALL JOINTS: WRAPAP SEAL AS MANUFACTURED BY CANUSA CPS, BIDCO EXTERNAL JOINT WRAP AS MANUFACTURED BY NPC, OR APPROVED EQUAL.

**INDEMNIFICATION:**

- THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER, THE VILLAGE OF ROMEORVILLE, AND CAGE ENGINEERING, INC. FROM AND AGAINST ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING FROM THE PERFORMANCE OF THE CONTRACTOR'S WORK. IN ANY AND ALL CLAIMS AGAINST THE OWNER OR CAGE ENGINEERING, INC. BY ANY EMPLOYEE OF THE CONTRACTOR, OR ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY THE CONTRACTOR, OR ANYONE FOR WHOM ACTS THE CONTRACTOR MAY BE LIABLE, THE INDEMNIFICATION OBLIGATION SHALL NOT BE LIMITED IN ANY WAY BY ANY LIMITATION ON THE AMOUNT OF DAMAGES, COMPENSATION OR BENEFITS PAYABLE BY OR FOR THE CONTRACTOR UNDER WORKER'S COMPENSATIONS ACTS, DISABILITY BENEFIT ACTS OR OTHER EMPLOYEE BENEFIT ACTS.

**INSURANCE REQUIREMENTS**

- THE CONTRACTOR SHALL PURCHASE AND MAINTAIN COMPREHENSIVE GENERAL LIABILITY AND OTHER INSURANCE SET FORTH BELOW WHICH WILL PROVIDE PROTECTION FROM CLAIMS WHICH MAY ARISE OUT OF OR RESULTING FROM THE PERFORMANCE OF WORK BY ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY THE CONTRACTOR OR BY ANYONE FOR WHOM ACTS THE CONTRACTOR MAY BE LIABLE.
  - COMPREHENSIVE AUTOMOBILE LIABILITY INSURANCE COVERING ALL AUTOMOBILES, TRUCKS, TRAILERS AND ANY OTHER MOTORIZED EQUIPMENT OWNED OR LEASED BY THE CONTRACTOR.
  - WORKER'S COMPENSATION AND EMPLOYER'S LIABILITY INSURANCE IN ANY AMOUNT NOT LESS THAN STATUTORY LIMITS REQUIRED BY LAW.
  - COMPREHENSIVE GENERAL LIABILITY INSURANCE INCLUDING COVERAGE IN THE AMOUNT OF \$500,000 PER ACCIDENT FOR PROPERTY DAMAGE AND \$1,000,000 PER PERSON AND \$3,000,000 AGGREGATE PER ACCIDENT FOR BODILY INJURY, SICKNESS OR DISEASE, OR DEATH OF ANY PERSON.
- CERTIFICATE OF INSURANCE
  - THE CONTRACTOR SHALL NOT COMMENCE WORK UNTIL HE HAS FILED WITH THE MUNICIPALITY AND ITS INSPECTOR A CERTIFICATE OF INSURANCE SHOWING COMPLETE COVERAGE OF ALL INSURANCE REQUIRED, SIGNED BY THE INSURANCE COMPANIES OR THEIR AUTHORIZED AGENTS. EACH CERTIFICATE SHALL PROVIDE THAT COVERAGE SHALL NOT BE TERMINATED OR REDUCED WITHOUT 30 DAYS ADVANCE WRITTEN NOTICE TO THE MUNICIPALITY AND ITS INSPECTOR. THE CONTRACTOR SHALL NAME THE OWNER, THE VILLAGE OF ROMEORVILLE AND CAGE ENGINEERING, INC. AS ADDITIONAL INSURED ON THE COMPREHENSIVE GENERAL LIABILITY AND AUTOMOBILE LIABILITY POLICIES.

**CONSTRUCTION MEANS, METHODS, SAFETY**

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL LAWS, INCLUDING OSHA STANDARDS AND WITH ANY OTHER APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS AND ORDERS OF ANY PUBLIC BODY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY OR TO PROTECT THEM FROM DAMAGE, INJURY OR LOSS. THE CONTRACTOR SHALL PROVIDE ALL SAFEGUARDS, SAFETY DEVICES AND PROTECTIVE EQUIPMENT AND SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS UTILIZED BY THE CONTRACTOR AND HIS SUB-CONTRACTORS IN THE PERFORMANCE OF THEIR WORK AND SHALL TAKE ANY OTHER ACTIONS NECESSARY TO PROTECT THE LIFE AND HEALTH OF EMPLOYEES ON THE JOB AND THE SAFETY OF THE PUBLIC AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES OR PROCEDURES, EQUIPMENT, AND FOR SAFETY PRECAUTIONS OR PROGRAMS, UNLESS SUCH MEANS AND EQUIPMENT ARE SPECIFIED IN THESE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL COMPLY WITH SECTION 108.06 LABOR, METHODS, AND EQUIPMENT OF THE "STANDARD SPECIFICATIONS."

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REVISIONS

06-08-2022 REVISED PER VILLAGE COMMENTS  
04-07-2022 REVISED PER VILLAGE COMMENTS

THIS DOCUMENT IS UNCONTROLLED. THE AUTHORITY OF CAGE ENGINEERING, INC. IS PART OF THIS DRAWING. NO PART OF THIS DRAWING MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.

PROPOSED IMPROVEMENTS FOR  
**CNG FUELING STATION**  
NW CORNER OF CHICAGO TUBE DR & SOUTH CREEK PKWY  
ROMEORVILLE, ILLINOIS

PROJ. NO: 210196

ENG: BPH

DATE: 2/18/2022

SHEET TITLE

**GENERAL NOTES & SPECIFICATIONS**

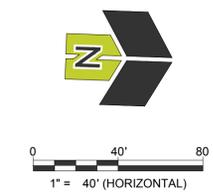
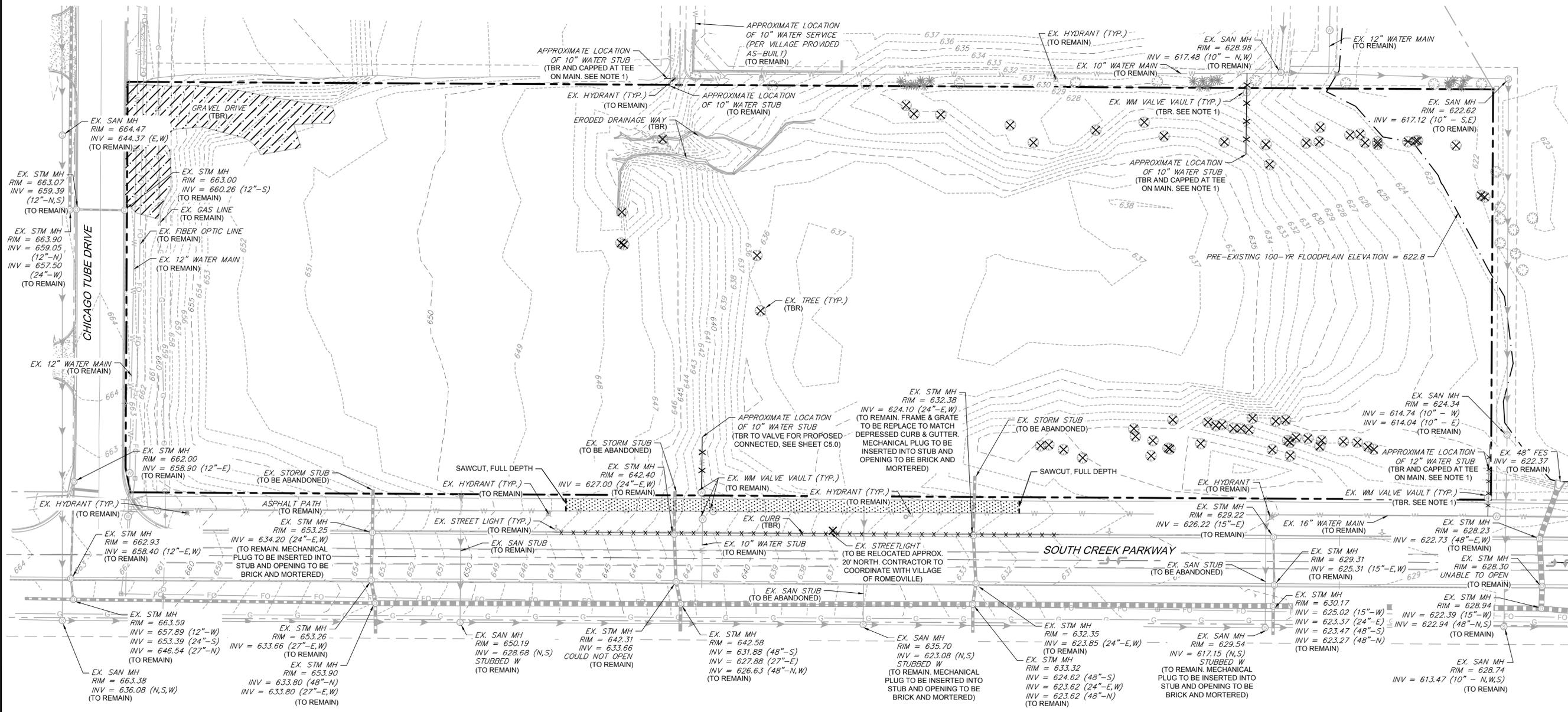
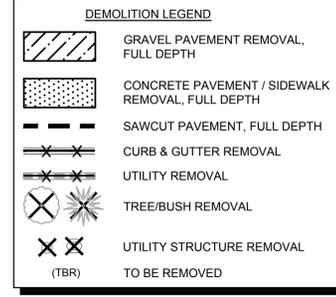
SHEET NUMBER

**C0.1**

2 OF 11

**BENCHMARKS**  
 REFERENCE BENCHMARK: NGS PID: DP5467  
 STAINLESS STEEL ROD IN PVC SLEEVE LOCATED IN THE NORTH RIGHT OF WAY OF RENWICK ROAD, APPROX 1 MILE EAST OF WEBER ROAD, 7 FEET SOUTH OF THE END OF CHAIN LINK FENCE ON THE SOUTH SIDE OF EXISTING AIRPORT.  
 ELEVATION: 661.68 DATUM: NAVD88-GEIOD 12B  
 SITE BENCHMARK 1:  
 NORTHWEST BOLD ON THE FIRE HYDRANT LOCATED AT THE NORTHWEST CORNER OF SOUTH CREEK PARKWAY AND CHICAGO TUBE DRIVE.  
 ELEVATION: 662.30 DATUM: NAVD88-GEIOD 12B  
 SITE BENCHMARK 2:  
 TAG BOLT ON THE SECOND FIRE HYDRANT WEST OF SOUTH CREEK PARKWAY, IN THE NORTH RIGHT OF WAY OF CHICAGO TUBE DRIVE.  
 ELEVATION: 665.51 DATUM: NAVD88-GEIOD 12B

**SHEET NOTES**  
 1. EXISTING WATER MAIN SHALL BE SHUT OFF FOR REMOVAL OF EXISTING WATER SERVICE STUBS THAT ARE TO BE REMOVED.



REVISIONS

NO.	DATE	DESCRIPTION
1	05-09-2022	REVISED PER VILLAGE COMMENTS
2	05-09-2022	REVISED PER VILLAGE COMMENTS
3	04-07-2022	REVISED PER VILLAGE COMMENTS

PROPOSED IMPROVEMENTS FOR  
**CNG FUELING STATION**  
 NW CORNER OF CHICAGO TUBE DR & SOUTH CREEK PKWY  
 ROMEOVILLE, ILLINOIS

PROJ NO: 210196  
 ENG: BPH  
 DATE: 2/18/2022

SHEET TITLE  
**SITE LAYOUT PLAN**

SHEET NUMBER  
**C2.0**  
 4 OF 11

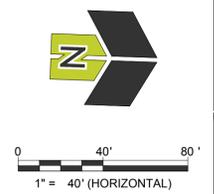
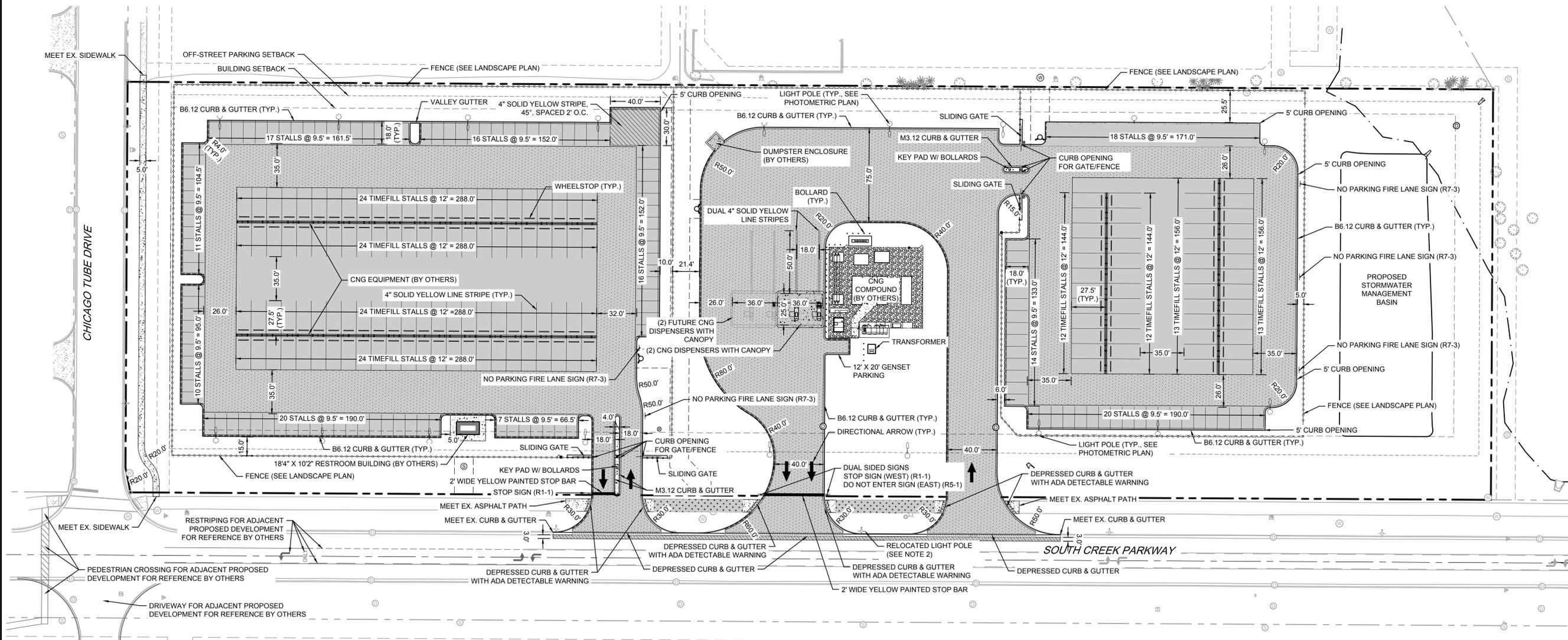
- SHEET NOTES**
- ALL GATES MUST BE TWO FEET WIDER THAN THE DRIVE LANE AND BE A MINIMUM OF 30 FT FROM PUBLIC ROADWAY.
  - GATES THAT ARE ELECTRONICALLY CONTROLLED MUST HAVE FIRE DEPARTMENT OVERRIDE BY OPTICOM RECEIVER OR KNOX KEYED ELECTRONIC CONTROL SWITCH TO OPEN THE GATE.
  - MANUAL SWING GATES MUST SWING INWARD TO OPEN.
  - SLIDING GATES THAT ARE SECURED WITH A PADLOCK SHALL HAVE A FIRE DEPARTMENT KNOX LOCK OR A KEY BOX LOCATED AT EACH GATE WITH THE OWNER'S KEYS.
  - CONTRACTOR IS RESPONSIBLE FOR LIGHT POLE RELOCATION. CONTRACTOR SHALL WORK WITH VILLAGE OF ROMEOVILLE'S THEN CURRENT LIGHTING MAINTENANCE CONTRACTOR TO ENSURE RELOCATION IS COMPLETED PROPERLY.

**PAVING LEGEND**

[Pattern]	STANDARD DUTY ASPHALT
[Pattern]	HEAVY DUTY ASPHALT
[Pattern]	GRAVEL (BY OTHERS)
[Pattern]	ASPHALT PATH - MATCH EX. PAVEMENT SECTION
[Pattern]	PAVEMENT PATCH ADJACENT TO PROPOSED CURB & GUTTER. MEET EX. PAVEMENT SECTION
[Pattern]	CONCRETE SIDEWALK
[Pattern]	CURB & GUTTER
[Pattern]	REVERSE PITCH CURB & GUTTER
[Pattern]	DEPRESSED CURB & GUTTER

**SITE DATA TABLE**

ZONING CLASS	P-B
LOT SIZE	8.18 AC
ONSITE IMPERVIOUS AREA	4.67 AC (57.1%)
FLOOR AREA RATIO	0.0005
<b>BUILDING SETBACKS</b>	
FRONT (SOUTH CREEK PARKWAY)	50 FT
FRONT (CHICAGO TUBE DRIVE)	35 FT
REAR (NORTH)	30 FT
SIDE (WEST)	20 FT
<b>OFF-STREET PARKING SETBACKS</b>	
FRONT (SOUTH CREEK PARKWAY)	35 FT
FRONT (CHICAGO TUBE DRIVE)	35 FT
SIDE (NORTH)	10 FT
REAR (WEST)	10 FT
<b>PARKING COUNT</b>	
TIMEFILL PARKING SPACES	146
CAR PARKING SPACES	149





APPROXIMATE EROSION CONTROL SCHEDULE			
TASK NAME	DURATION	START	FINISH
START CONSTRUCTION	91 DAYS	6/20/22	10/20/22
INSTALL SITE FENCE & SWPPP	5 DAYS	6/10/22	6/14/22
CLEAR AND GRUB SITE	5 DAYS	6/24/22	6/28/22
ROUGH GRADE SITE	13 DAYS	7/1/22	7/17/22
INSTALL STORM DRAIN SYSTEM	5 DAYS	7/16/22	7/22/22
CURB & GUTTER	5 DAYS	7/22/22	7/26/22
ASPHALT PAVING	6 DAYS	7/29/22	8/5/22
GRADING LANDSCAPE AREAS	4 DAYS	8/5/22	8/8/19
LANDSCAPING	7 DAYS	8/7/22	8/15/22
REMOVAL OF SWPPP	5 DAYS	8/12/22	8/16/22

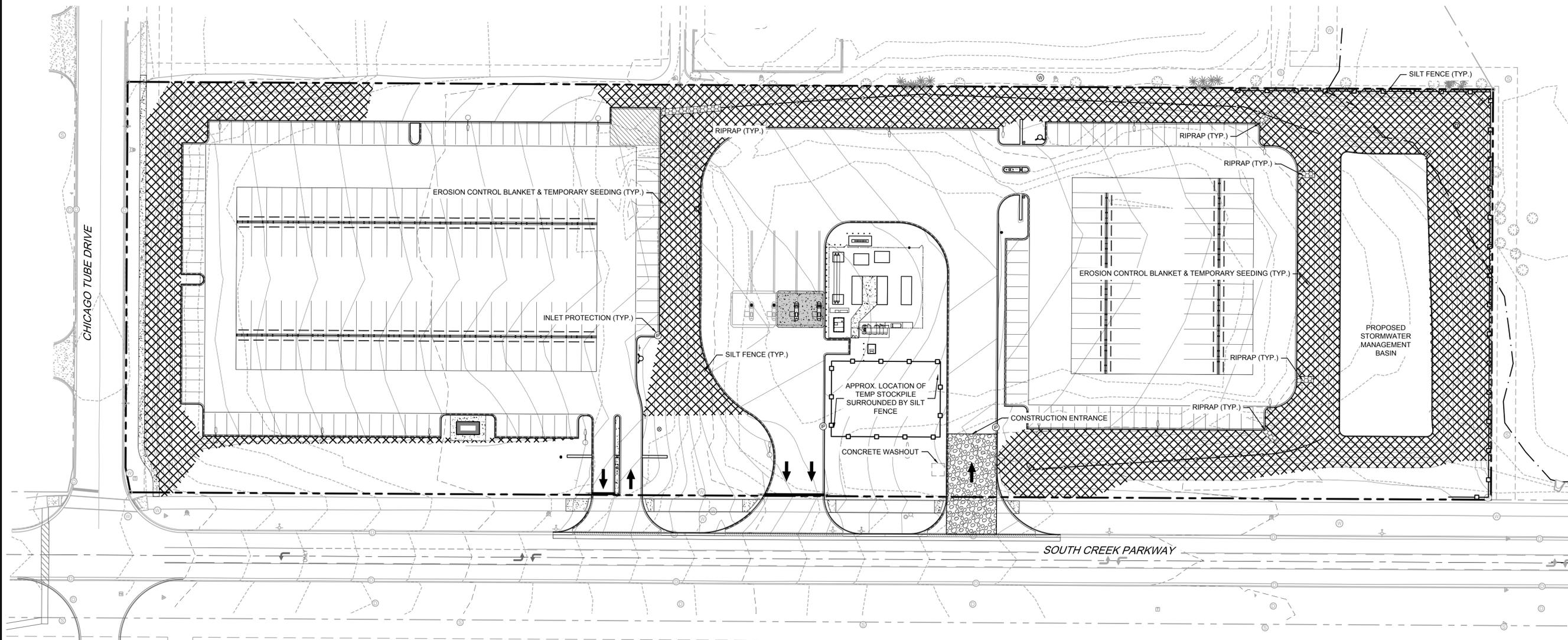
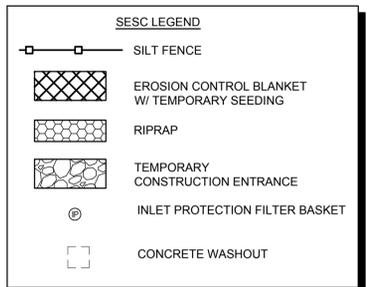
- SOIL EROSION & SEDIMENT CONTROL PLAN NOTES**
1. ALL ACCESS TO AND FROM THE CONSTRUCTION SITE IS TO BE RESTRICTED TO THE CONSTRUCTION ENTRANCE.
  2. ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE EFFECTIVE PERFORMANCE OF THEIR INTENDED FUNCTION.
  3. 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.
  4. ANY SEDIMENT REACHING A PUBLIC OR PRIVATE ROAD SHALL BE REMOVED BY SHOVELING OR STREET CLEARING (NOT FLUSHING) BEFORE THE END OF EACH WORKDAY AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL.
  5. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE DISPOSED OF WITHIN 30 DAYS AFTER THE FINAL SITE STABILIZATION IS ACHIEVED WITH PERMANENT SOIL STABILIZATION MEASURES.
  6. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN 7 CALENDAR DAYS FOLLOWING THE END OF ACTIVE DISTURBANCE OR REDISTURBANCE.
  7. 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.

**SOIL EROSION & SEDIMENT CONTROL PLAN CERTIFICATION**

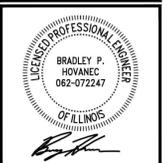
THIS EROSION CONTROL PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, AND COMPLIES WITH THE URBAN SOIL EROSION CONTROL STANDARDS IN ILLINOIS MANUAL (LATEST EDITION) AND GENERALLY RECOGNIZES METHODS USE IN THE AREA.

*Bradley P. Hovanec*  
ENGINEER

04/07/2022  
DATE



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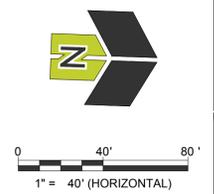


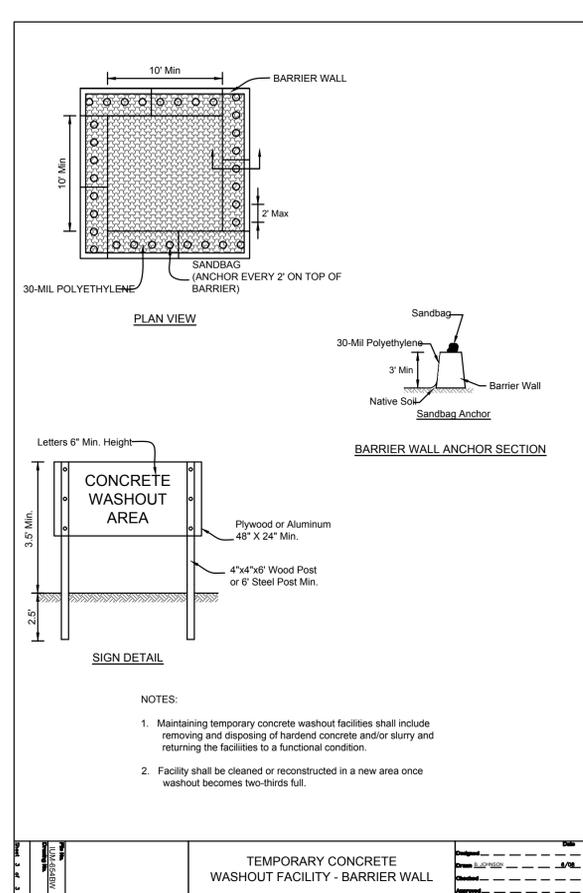
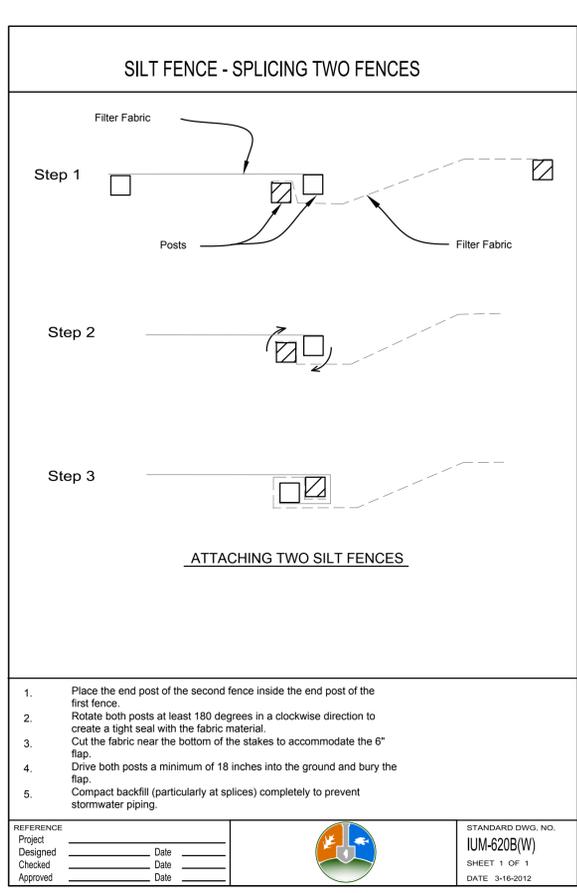
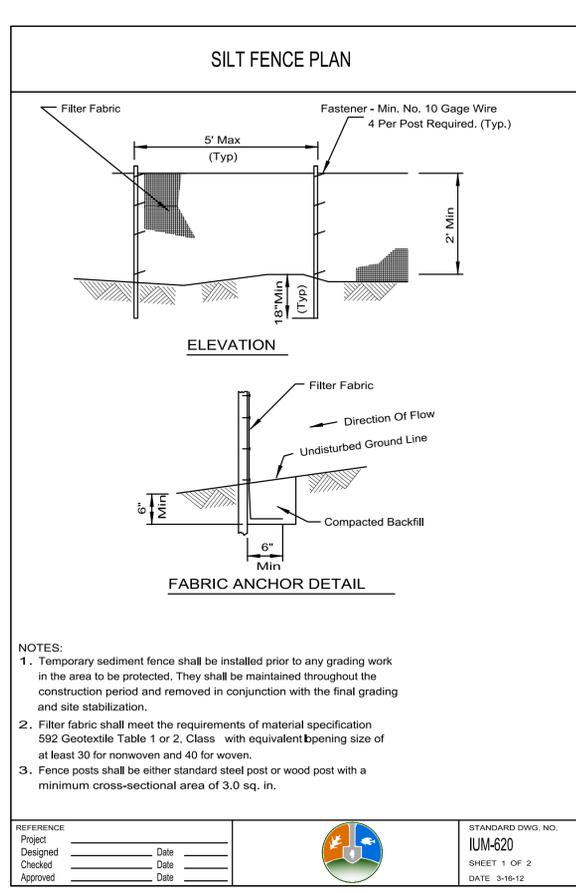
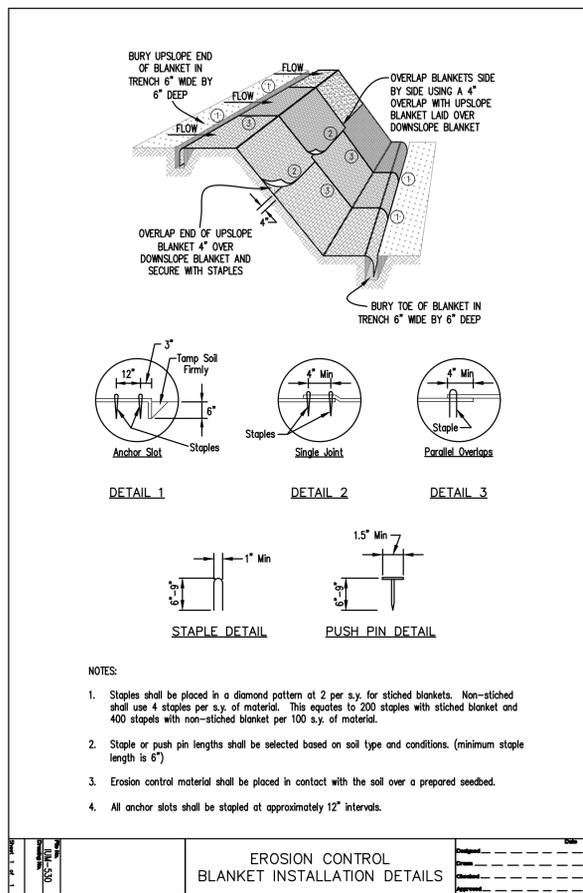
**REVISIONS**

NO.	DATE	DESCRIPTION
1	06-08-2022	REVISED PER VILLAGE COMMENTS
2	04-07-2022	REVISED PER VILLAGE COMMENTS

PROPOSED IMPROVEMENTS FOR  
**CNG FUELING STATION**  
NW CORNER OF CHICAGO TUBE DR & SOUTH CREEK PKWY  
ROMEDEVILLE, ILLINOIS

PROJ NO: 210196
ENG: BPH
DATE: 2/18/2022
SHEET TITLE SOIL EROSION AND SEDIMENT CONTROL PLAN
SHEET NUMBER <b>C4.0</b> 6 OF 11

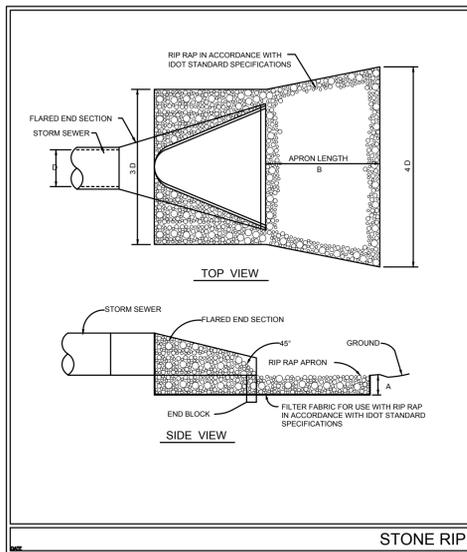




**EROSION CONTROL BLANKET DETAIL**  
Scale: NOT TO SCALE

**SILT FENCE DETAIL**  
Scale: NOT TO SCALE

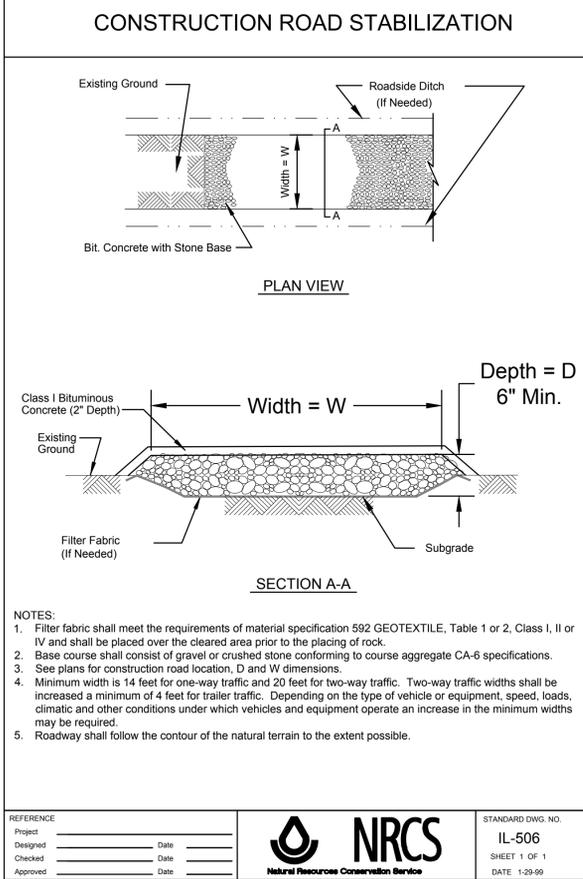
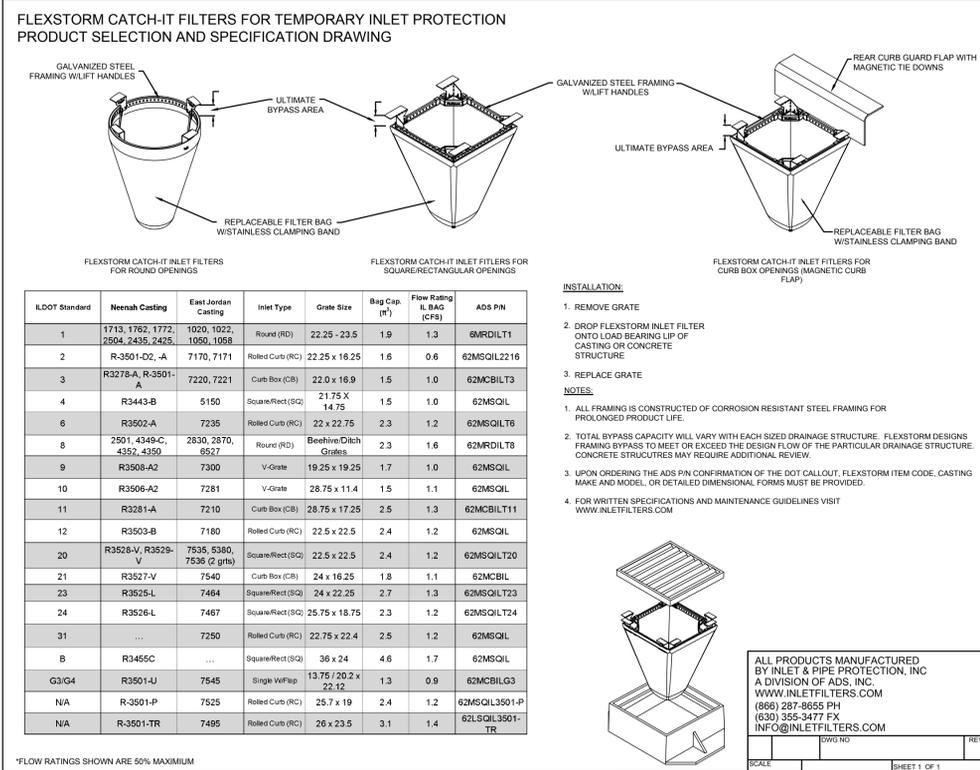
**CONCRETE WASHOUT DETAIL**  
Scale: NOT TO SCALE



PIPE DIAMETER (IN.)	STONE RIP-RAP							BEDDING	
	QUALITY DESIGNATION	GRADATION NUMBER	MINIMUM THICKNESS (IN.)	MINIMUM LENGTH RANGE (FT.)	WEIGHT PER AVERAGE (LB)	WEIGHT PER AVERAGE (LB)	SIZE AVERAGE (IN.)	GRADATION NUMBER	MINIMUM THICKNESS (IN.)
12	B	3	12"	12"	1-50	10	4.5"	N/A	N/A
15	B	3	14"	14"	1-50	10	4.5"	N/A	N/A
18	B	4	16"	16"	1-50	40	7"	1 or CA-3	6"
21	B	4	18"	18"	1-150	40	7"	1 or CA-3	6"
24	B	4	20"	20"	1-150	40	7"	1 or CA-3	6"
30	B	4	22"	22"	1-150	40	7"	1 or CA-3	6"
36	B	5	24"	24"	3-400	90	10"	1 or CA-3	8"
42	B	5	26"	26"	3-400	90	10"	1 or CA-3	8"
48	B	6	28"	28"	6-600	170	12"	2 or CA-1	10"
54	B	6	32"	32"	6-600	170	12"	2 or CA-1	10"
60	B	6	36"	36"	6-600	170	12"	2 or CA-1	10"
72	B	6	44"	44"	6-600	170	12"	2 or CA-1	10"

**NOTE:**

- FOR PIPE SIZE 72" AND LARGER A SPECIAL DESIGN OF RIP-RAP OR APRON IS REQUIRED.
- GRADATION REFER TO I.D.O.T. SPECIFICATIONS AND STANDARDS.



**RIP-RAP DETAIL**  
Scale: NOT TO SCALE

**INLET PROTECTION DETAIL**  
Scale: NOT TO SCALE

**CONSTRUCTION ENTRANCE DETAIL**  
Scale: NOT TO SCALE

3110 WOODCREEK DRIVE  
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P. 630.598.0007  
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**CAGE CIVIL ENGINEERING**

PROFESSIONAL ENGINEER  
BRADLEY P. HOVANEK  
052-072247  
OF ILLINOIS

REVISIONS

05-08-2022 REVISED PER VILLAGE COMMENTS  
11-07-2022 REVISED PER VILLAGE COMMENTS

PROPOSED IMPROVEMENTS FOR  
**CNG FUELING STATION**  
NW CORNER OF CHICAGO TUBE DR & SOUTH CREEK PKWY  
ROMEOVILLE, ILLINOIS

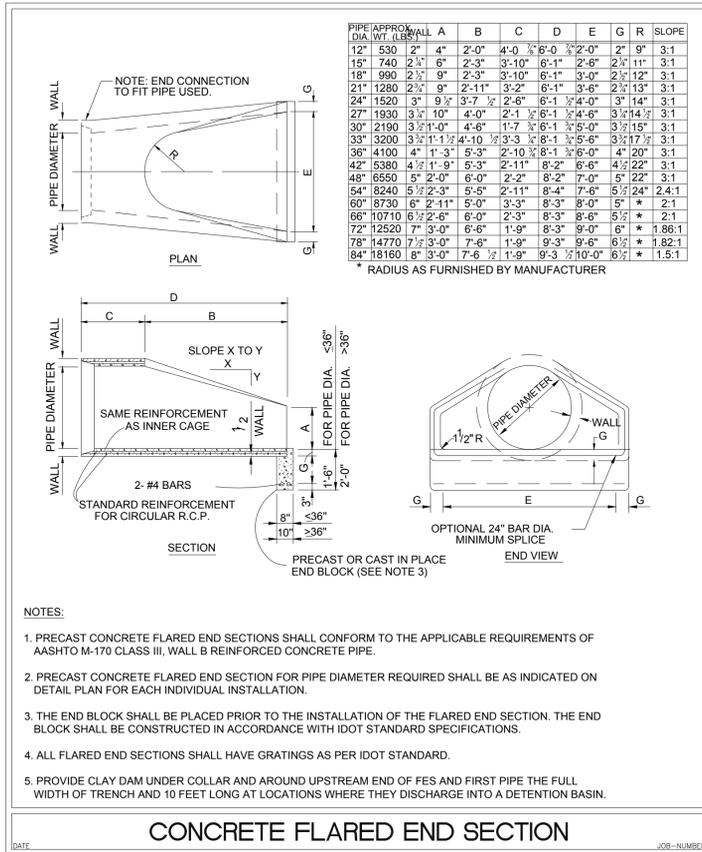
PROJ NO: 210196  
ENG: BPH  
DATE: 2/18/2022

SHEET TITLE

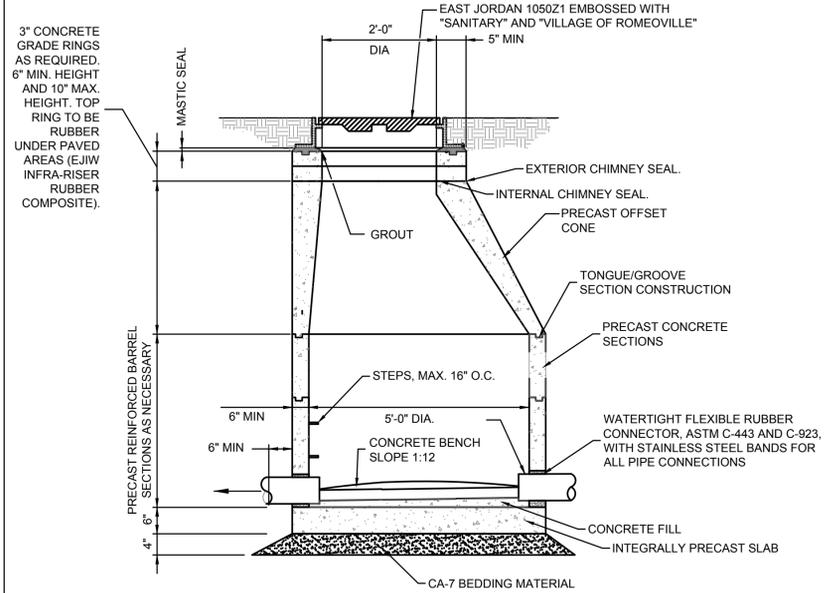
SOIL EROSION AND SEDIMENT CONTROL DETAILS

SHEET NUMBER  
**C4.1**  
7 OF 11



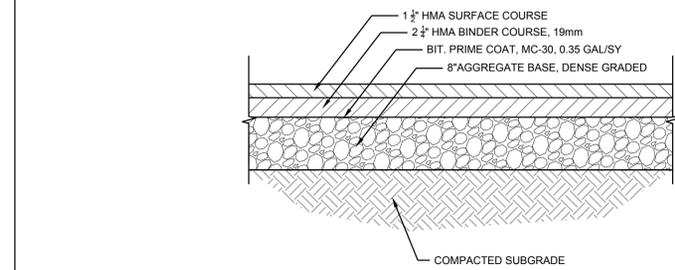


CONCRETE FLARED END SECTION



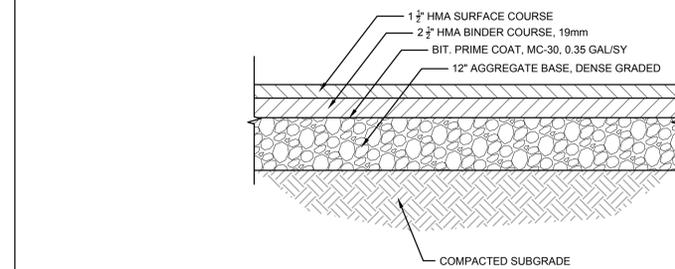
- NOTES:  
 1. FOR SEWERS TWENTY-FOUR (24) INCH OR LESS IN DIAMETER, USE FORTY-EIGHT (48) INCH MANHOLES; FOR SEWERS MORE THAN TWENTY-FOUR (24) INCH IN DIAMETER, USE SIXTY (60) INCH MANHOLES.  
 2. FORM FLOW CHANNELS THRU MANHOLE THE FULL SIZE OF SEWER MAINS CONFORMING TO THE CROSS SECTION OF PIPE, SHAPE AND TROWEL SMOOTH.  
 3. STOP ALL PIPE 1" INTO MANHOLE.  
 4. CLEAN ALL JOINTS AND INSTALL SEALING GASKETS.  
 5. ALL STRUCTURE SECTIONS SHALL BE JOINED IN TONGUE AND GROOVE METHOD WITH A PREFORMED BITUMINOUS JOINT SEALER THROUGHOUT THE SEALING SURFACE.  
 6. ALL CASTING SHALL CONFORM TO THE CURRENT CITY APPROVED CASTING LIST.  
 7. TRENCH BACKFILL IS REQUIRED AROUND ALL STRUCTURES, CA-7 CRUSHED LIMESTONE AGGREGATE.

SANITARY MONITORING MANHOLE DETAIL



STANDARD DUTY ASPHALT PAVEMENT DETAIL

Scale: NOT TO SCALE



HEAVY DUTY ASPHALT PAVEMENT DETAIL

Scale: NOT TO SCALE

FLARED END SECTION DETAIL

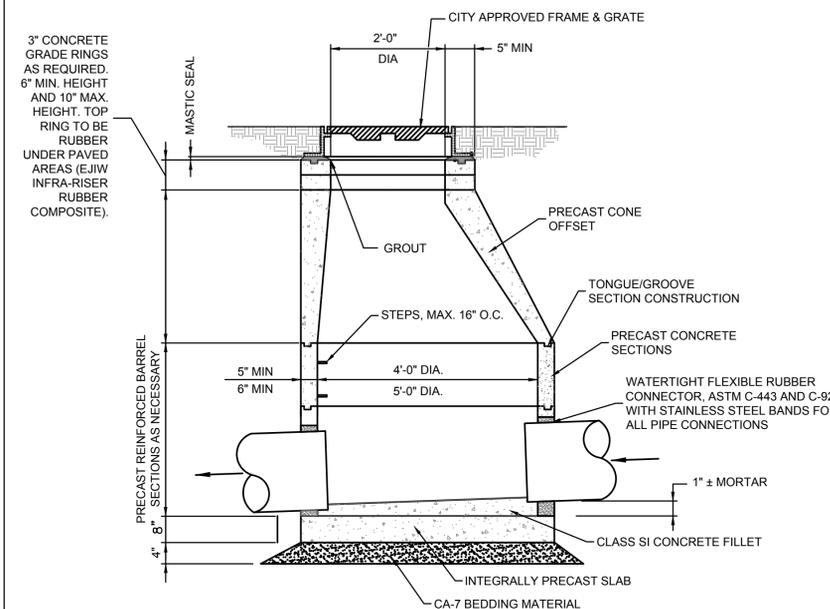
Scale: NOT TO SCALE

SANITARY MONITORING MANHOLE DETAIL

Scale: NOT TO SCALE

HEAVY DUTY ASPHALT PAVEMENT DETAIL

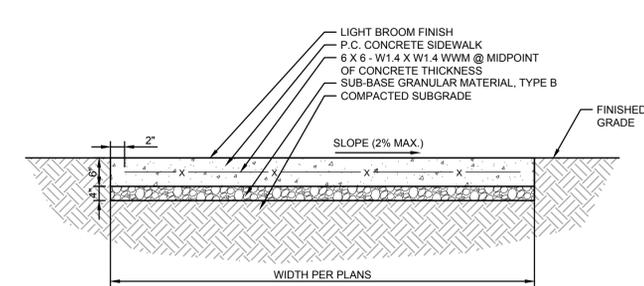
Scale: NOT TO SCALE



- NOTES:  
 1. FOR SEWERS TWENTY-FOUR (24) INCH OR LESS IN DIAMETER, USE FORTY-EIGHT (48) INCH MANHOLES; FOR SEWERS MORE THAN TWENTY-FOUR (24) INCH IN DIAMETER, USE SIXTY (60) INCH MANHOLES.  
 2. STOP ALL PIPE 3" INTO MANHOLE.  
 3. CLEAN ALL JOINTS AND INSTALL SEALING GASKETS.  
 4. ALL STRUCTURE SECTIONS SHALL BE JOINED IN TONGUE AND GROOVE METHOD WITH A PREFORMED BITUMINOUS JOINT SEALER THROUGHOUT THE SEALING SURFACE.  
 5. ALL CASTING SHALL CONFORM TO THE CURRENT CITY APPROVED CASTING LIST.  
 6. TRENCH BACKFILL IS REQUIRED AROUND ALL STRUCTURES, CA-7 CRUSHED LIMESTONE AGGREGATE.

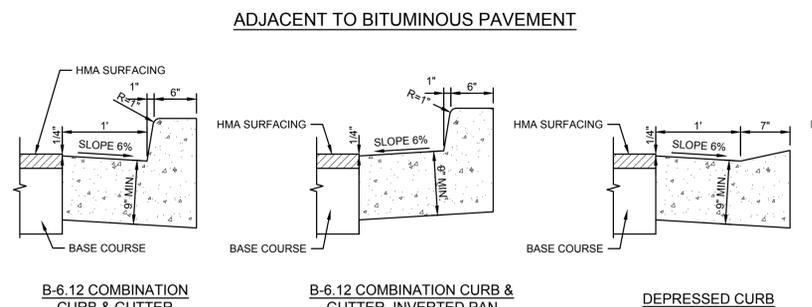
STORM MANHOLE DETAIL

Scale: NOT TO SCALE



CONCRETE SIDEWALK DETAIL

Scale: NOT TO SCALE



CONCRETE CURB & GUTTER DETAIL

Scale: NOT TO SCALE

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REVISIONS

06-08-2022 REVISED PER VILLAGE COMMENTS  
 04-07-2022 REVISED PER VILLAGE COMMENTS

PROPOSED IMPROVEMENTS FOR  
**CNG FUELING STATION**  
 NW CORNER OF CHICAGO TUBE DR & SOUTH CREEK PKWY  
 ROMEOVILLE, ILLINOIS

PROJ NO: 210196

ENG: BPH

DATE: 2/18/2022

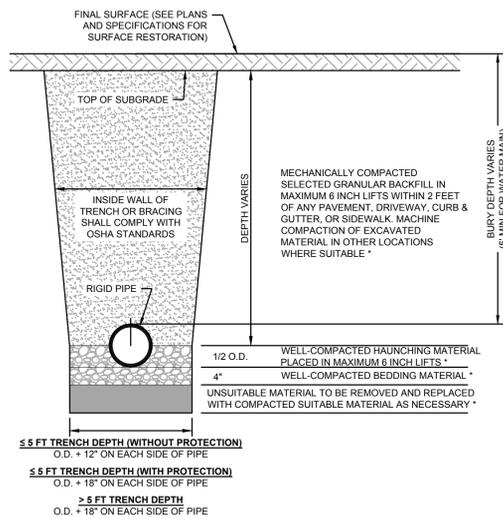
SHEET TITLE

CONSTRUCTION DETAILS

SHEET NUMBER

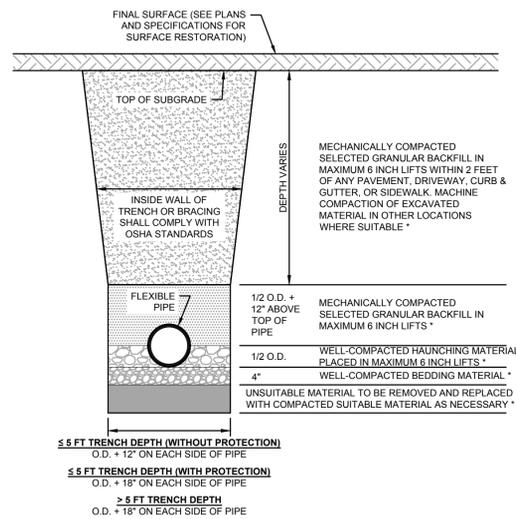
C6.0

9 OF 11



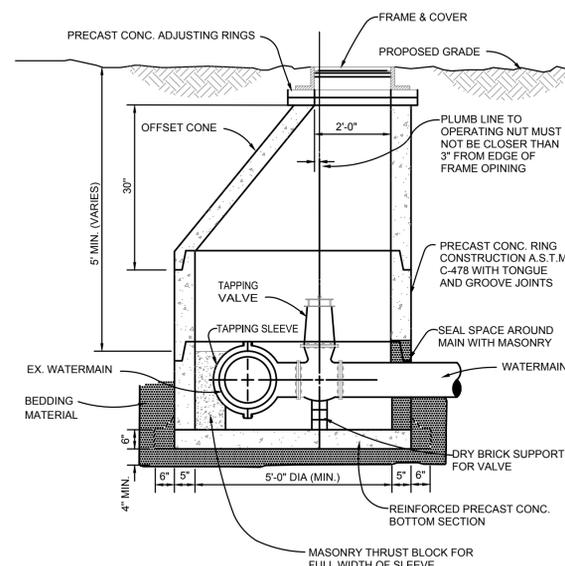
**RIGID PIPE INSTALLATION DETAIL**

CONCRETE PIPE  
VITRIFIED CLAY PIPE  
DUCTILE IRON PIPE  
STEEL PIPE



**FLEXIBLE PIPE INSTALLATION DETAIL**

PVC PIPE  
COMPOSITE SEWER PIPE  
HDPE PIPE  
CORRUGATED METAL PIPE

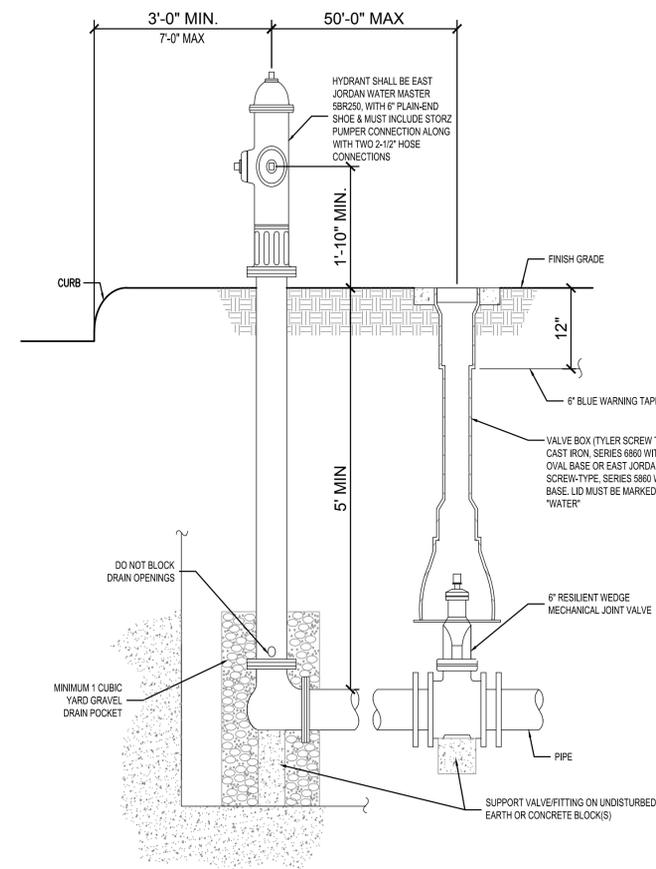


**NOTES:**

1. INSTALL A MINIMUM 4" OF SELECT GRANULAR BACKFILL UNDER STRUCTURE BOTTOM SECTION AND FILL ENTIRE EXCAVATION ALL AROUND STRUCTURE UP TO CENTERLINE OF PIPE WITH BEDDING MATERIAL.
2. PIPE OPENINGS SHALL BE CAST INTO WALL.
3. STRUCTURE FRAME, ADJUSTING RINGS, AND ALL CONCRETE SECTIONS SHALL BE SET ON AND SEALED WITH BITUMINOUS MASTIC JOINT MATERIAL.
4. FILL LUG HOLES WITH BITUMINOUS JOINING COMPOUND.

**PRESSURE CONNECTION W/ VALVE VAULT DETAIL**

Scale: NOT TO SCALE

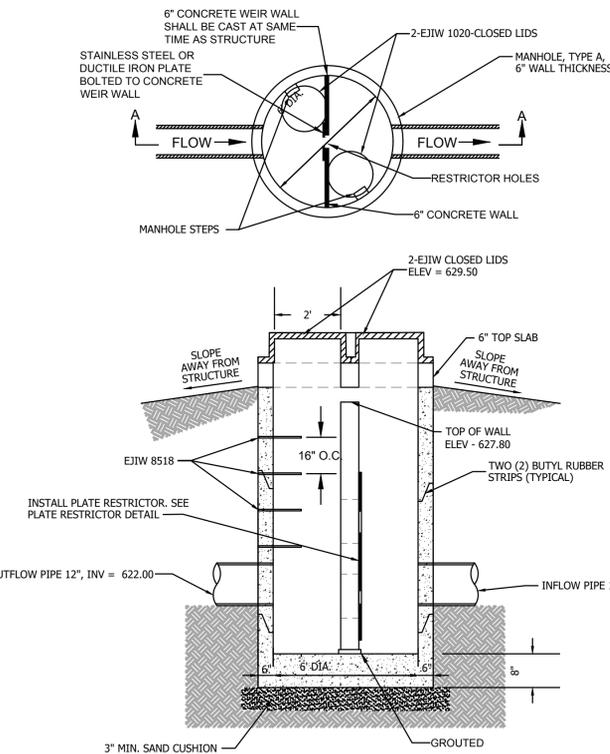


**FIRE HYDRANT DETAIL**

Scale: NOT TO SCALE

**PIPE INSTALLATION DETAIL**

Scale: NOT TO SCALE

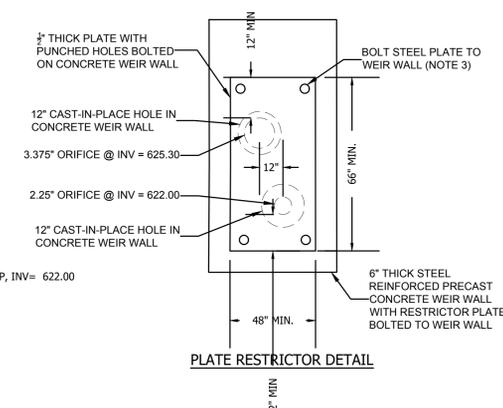


**NOTES:**

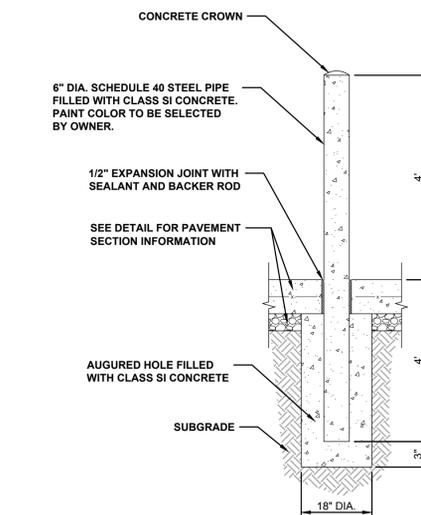
1. THE RESTRICTOR PLATE AND FASTENERS SHALL BE FABRICATED IN STAINLESS STEEL OR DUCTILE IRON
2. THE DEPTH OF THE ANCHOR BOLTS SHALL BE EMBEDDED AT LEAST 3" INTO THE STRUCTURE WALL.
3. THE STEEL PLATE SHALL BE BOLTED TO THE CONCRETE WALL.
4. ALL BOLTS SHALL BE TACK WALDED TO THE STEEL PLATE
5. EPOXY SEALANT SHALL BE USED BETWEEN THE WEIR AND STEEL PLATE

**RESTRICTOR CATCH BASIN DETAIL**

Scale: NOT TO SCALE

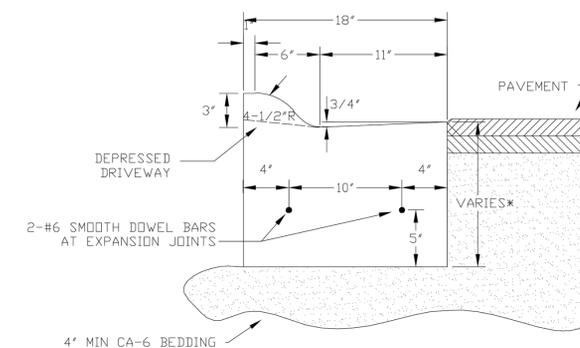


**PLATE RESTRICTOR DETAIL**



**BOLLARD DETAIL**

Scale: NOT TO SCALE



\*CURB DEPTH SHALL BE EQUAL TO PAVEMENT THICKNESS PLUS PAVEMENT BASE DEPTH, MINUS 4" CURB BASE DEPTH, 9" MIN. (IE. 3" PAVEMENT WITH 12" AGGREGATE BASE COURSE MINUS 4" CURB BASE EQUALS 11" CURB DEPTH)

NOTE: EXPANSION JOINTS @ 100' INTERVALS  
CONTROL JOINTS @ 20' INTERVALS  
CLASS SI CONCRETE

**COMBINATION CURB AND GUTTER M3.12 DETAIL**

01/31/97 MAG  
03/02/07 KRL

N.T.S.

**MOUNTABLE CURB DETAIL**

Scale: NOT TO SCALE

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**REVISIONS**

06-08-2022 REVISED PER VILLAGE COMMENTS

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PROPOSED IMPROVEMENTS FOR  
**CNG FUELING STATION**  
NW CORNER OF CHICAGO TUBE DR & SOUTH CREEK PKWY  
ROMEOVILLE, ILLINOIS

PROJ NO: 210196

ENG: BPH

DATE: 2/18/2022

SHEET TITLE

**CONSTRUCTION DETAILS**

SHEET NUMBER

**C6.1**

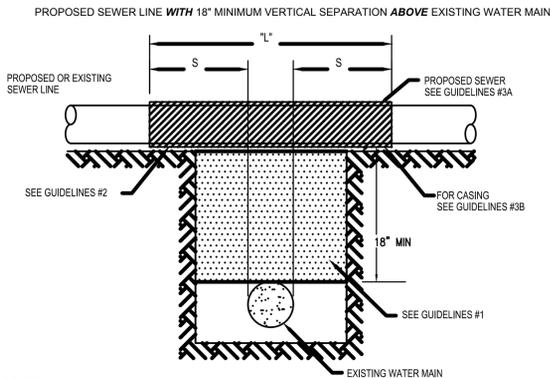
10 OF 11

Fitting Type	Pipe Material	Soil Type	Safety Factor	Trench Type	Depth of Bury	Test Pressure	Nominal Size	Bend Angle	Branch Size	Length Along Run	Reduced Size	Restraint Length
Horizontal Bend	Poly Wrapped Ductile	CL	1	5	5	150	8	11.25				2 ft.
Horizontal Bend	Poly Wrapped Ductile	CL	1	5	5	150	8	22.5				3 ft.
Horizontal Bend	Poly Wrapped Ductile	CL	1	5	5	150	8	45				5 ft.
Horizontal Bend	Poly Wrapped Ductile	CL	1	5	5	150	8	90				11 ft.
Reducer	Poly Wrapped Ductile	CL	1	5	5	150	10				8	20 ft.
Tee	Poly Wrapped Ductile	CL	1	5	5	150	8		6	20		1 ft.

NOTE: IF YOUR DISTANCE BETWEEN FITTINGS IS LESS THAN OR EQUAL TO THE CALCULATED RESTRAINED LENGTH, RESTRAIN ALL JOINTS BETWEEN THOSE FITTINGS

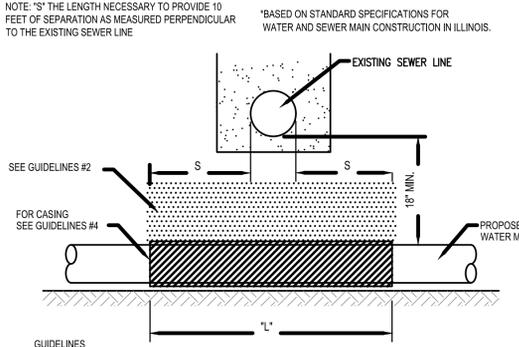
### RESTRAINED JOINT LENGTHS PER EBAA RECOMMENDATIONS

Scale: NOT TO SCALE



- GUIDELINES**
- IF SELECT GRANULAR BACKFILL EXISTS, REMOVE WITHIN WIDTH OF PROPOSED SEWER TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT
  - OMIT SELECT GRANULAR EMBEDMENT AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF SEWER AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT THE LENGTH OF "L" FEET.
  - A) CONSTRUCT "L" FEET OF PROPOSED SEWER OF WATER MAIN MATERIAL AND PRESSURE TEST, OR;  
B) USE "L" FEET OF WATER MAIN MATERIAL FOR CASING OF PROPOSED SEWER AND SEAL ENDS OF CASING.
- NOTE: "S" IS THE LENGTH NECESSARY TO PROVIDE 10 FEET OF SEPARATION AS MEASURED PERPENDICULAR TO THE EXISTING WATER MAIN
- \*BASED ON STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS.

PROPOSED WATER MAIN BELOW EXISTING SEWER LINE WITH 18" MINIMUM VERTICAL SEPARATION



- GUIDELINES**
- OMIT SELECT GRANULAR EMBEDMENT AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF WATER MAIN AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT THE LENGTH OF "L" FEET.
  - IF SELECT GRANULAR BACKFILL EXISTS, REMOVE WITHIN WIDTH OF EXISTING SEWER LINE TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT.
  - PROVIDE ADEQUATE SUPPORT FOR EXISTING SEWER LINE TO PREVENT DAMAGE DUE TO SETTLEMENT.
  - USE "L" FEET OF WATER MAIN MATERIAL FOR CASING OF PROPOSED WATER MAIN AND SEAL ENDS OF CASING.

### WATER/SEWER SEPERATION DETAILS

Scale: NOT TO SCALE

#### Final Acceptance and Testing of Sanitary Sewer

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

#### Final Testing of Sanitary Sewer Manholes

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

#### Flow Monitoring prior to Acceptance

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

### VILLAGE OF ROMEOVILLE - FINAL ACCEPTANCE & TESTING OF SANITARY SEWER REQUIREMENTS

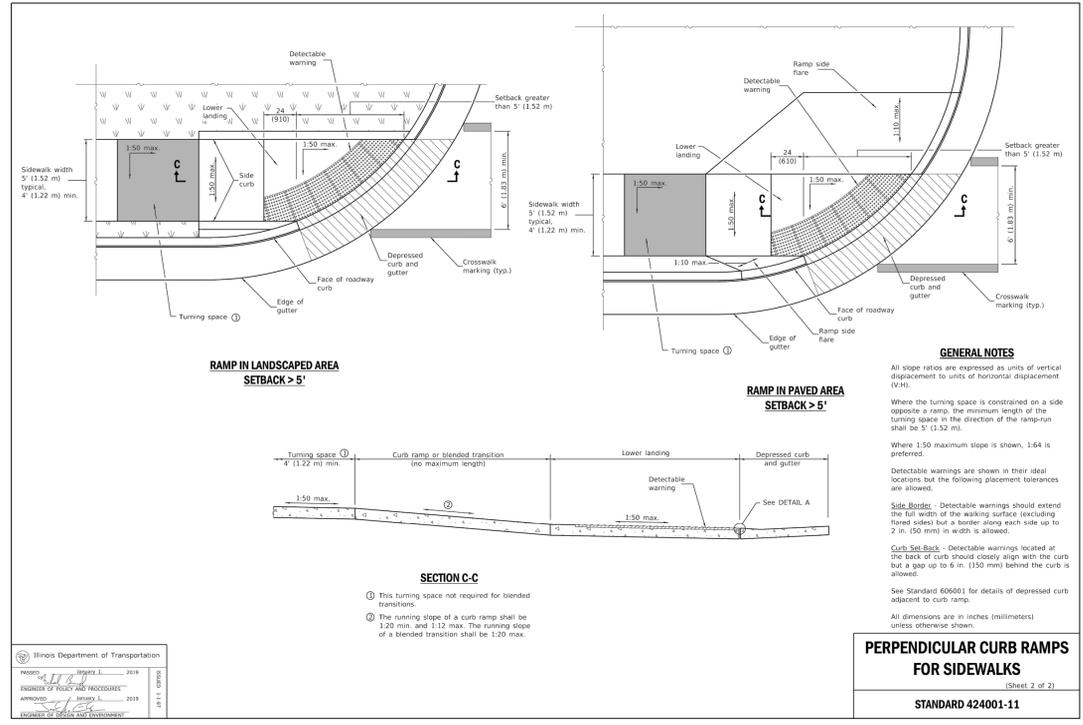
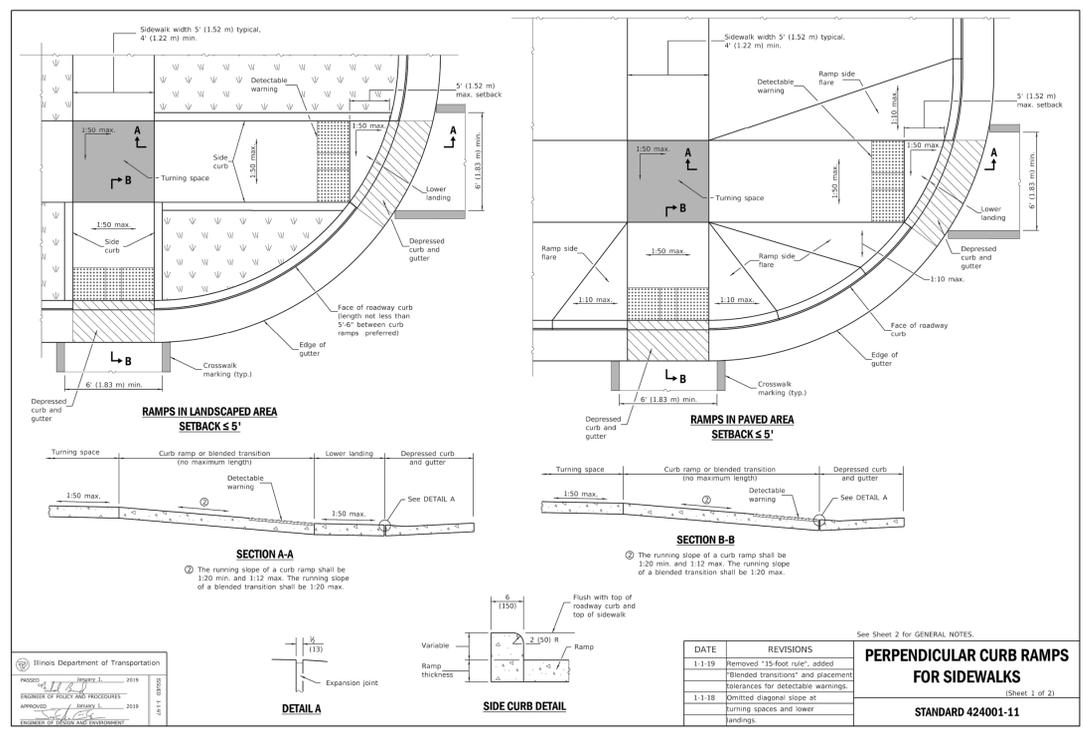
Scale: NOT TO SCALE

#### Village of Romeoville - Minimum chlorination standards:

- Gas chlorine must be used for disinfection.
- The chlorination contractor must call 815-886-1870 a minimum of 24-hours in advance to schedule chlorination.
- Only Village of Romeoville employees shall operate water system valves and turn on/off sampling whips while samples are being collected.
- All chlorination and safety equipment must meet or exceed the standards and recommendations set by The Chlorine Institute, Inc.
- 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 field.
- The chlorination contractor must be bonded and insured, and have proof of both on file with the Village.
- 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.
- 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.

### VILLAGE OF ROMEOVILLE - MINIMUM CHLORINATION STANDARDS

Scale: NOT TO SCALE



NOTE: DETECTABLE WARNING PLATES MUST BE EAST JORDAN INSERTS, HEAVY DUTY LOAD RATING, BRICK RED POWDER COATING RAL3016. TWO (2) 24" x 30" PLATES ARE REQUIRED FOR 5' WALKS

### PERPENDICULAR CURB RAMP FOR SIDEWALK DETAIL

Scale: NOT TO SCALE

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**REVISIONS**

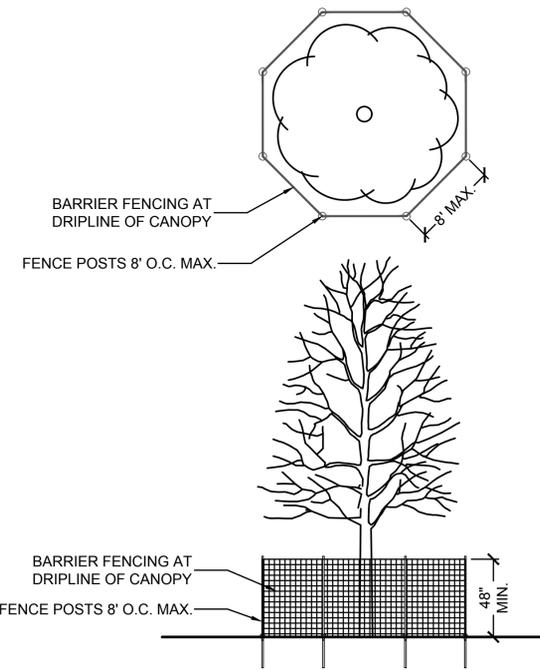
NO.	DATE	DESCRIPTION
06-08-2022	REVISED PER VILLAGE COMMENTS	
04-07-2022	REVISED PER VILLAGE COMMENTS	

PROPOSED IMPROVEMENTS FOR  
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NW CORNER OF CHICAGO TUBE DR & SOUTH CREEK PKWY  
ROMEOVILLE, ILLINOIS

PROJ NO: 210196  
ENG: BPH  
DATE: 2/18/2022

SHEET TITLE  
**CONSTRUCTION DETAILS**

SHEET NUMBER  
**C6.2**  
11 OF 11



**2** TREE PRESERVATION FENCING DETAIL

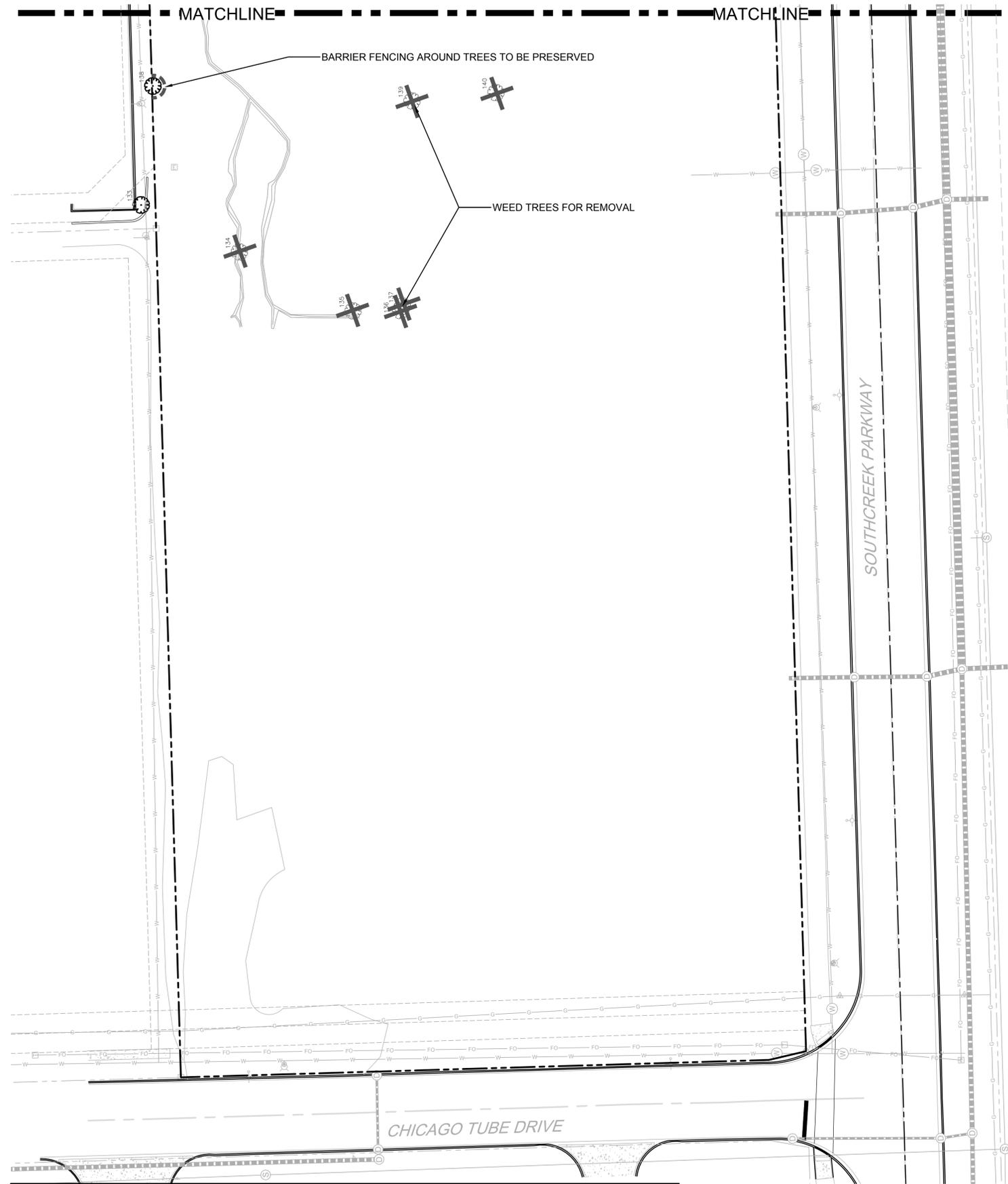
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**TREE PROTECTION & REMOVAL LEGEND**

- EXISTING TREES TO REMAIN
- EXISTING TREE TO BE REMOVED
- BARRIER FENCING TO BE INSTALLED

**EXISTING VEGETATION DESCRIPTION**

THE PROJECT SITE CONSISTS OF A VACANT LOT OF 8.18 ACRES. WITH PRIMARILY COTTONWOOD AND WILLOW SAPPLINGS THROUGHOUT THE SITE. ALL OF THE TREES ON SITE WILL BE REMOVED FOR GRADING PURPOSES. ALL TREES TO BE REMOVED ARE COTTONWOOD AND WILLOW, NO REPLACEMENT TREES ARE ACCOUNTED FOR.



**1** TREE PROTECTION & REMOVAL PLAN - SOUTH

SEAL



EXPIRES 08/2023

**PROJECT TEAM**

CIVIL ENGINEER:



**PROJECT NAME**

CNG FUELING STATION

Southcreek Parkway & Chicago Tube Drive, Romeoville, Illinois

**DRAWING ISSUED**

NO.	TITLE	DATE
1.	Issued for Review	02/18/2022
2.	Per Village Comment	04/07/2022
3.	Per Village Comment	05/02/2022

**SET TYPE**  
LANDSCAPE PLANS

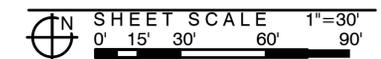
**PROJECT NUMBER**  
2202028

DATE  
02-18-2022  
DRAWN BY: LCG APPROVED BY: LCG

**SHEET TITLE**  
TREE PROTECTION & REMOVAL PLAN - SOUTH

**SHEET NUMBER**

**L1.0**



SEAL



EXPIRES 08/2023

PROJECT TEAM

CIVIL ENGINEER:



PROJECT NAME

CNG FUELING STATION

Southcreek Parkway &  
Chicago Tube Drive,  
Romeoville, Illinois

DRAWING ISSUED

NO.	TITLE	DATE
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3.	Per Village Comment	05/02/2022

SET TYPE  
LANDSCAPE PLANS

PROJECT NUMBER  
2202028

DATE  
02-18-2022  
DRAWN BY: LCG APPROVED BY: LCG

SHEET TITLE  
TREE PROTECTION &  
REMOVAL PLAN - NORTH

SHEET NUMBER

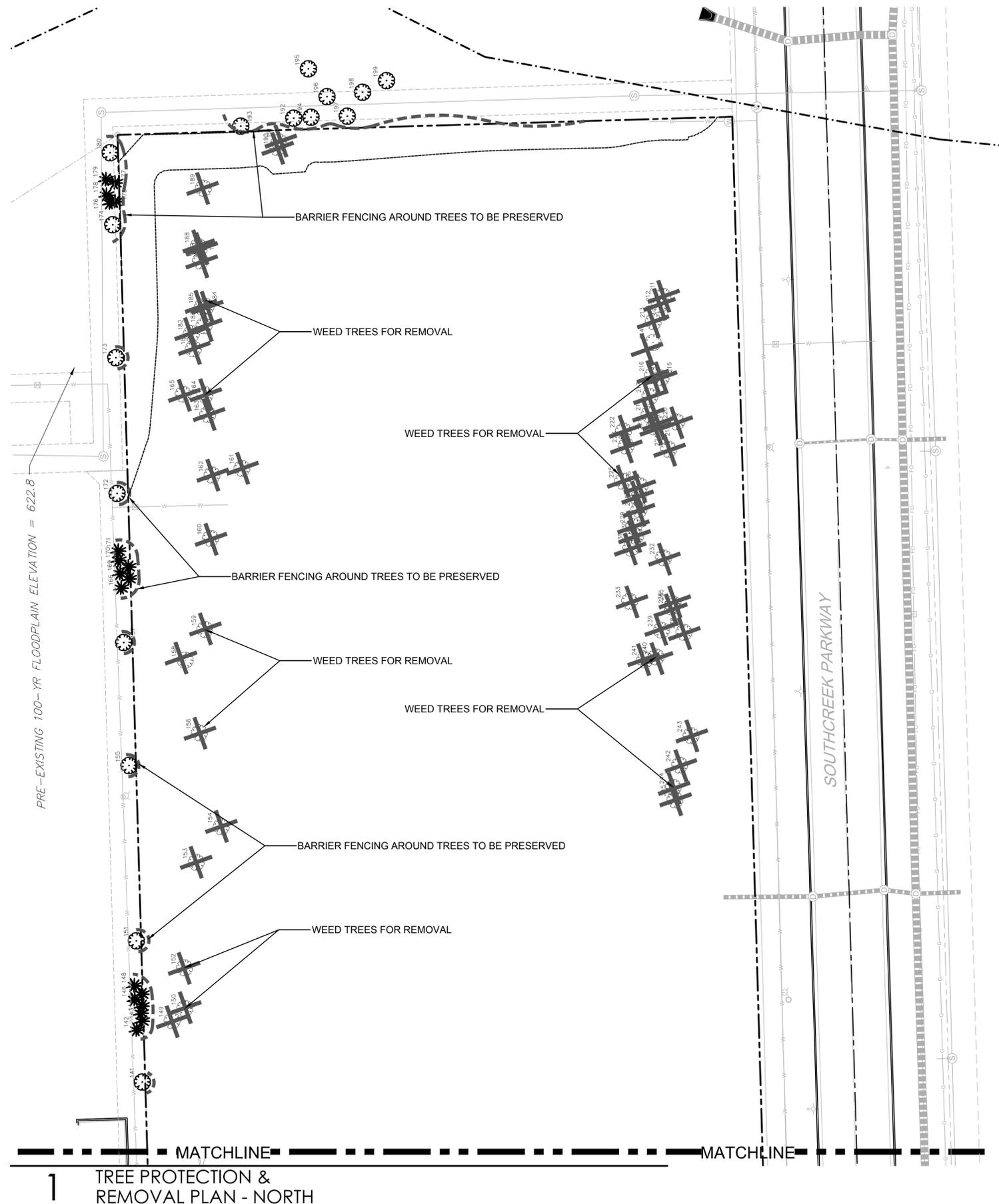
L1.1

TREE PROTECTION &  
REMOVAL NOTES

1. CONTRACTOR SHALL OBTAIN ALL NECESSARY STATE AND LOCAL PERMITS AND PERMISSIONS TO PRUNE, REMOVE, AND/OR TRANSPLANT ANY TREES ON SITE.
2. DEAD AND DYING MATERIAL ON THE SITE SHALL BE REMOVED OR PRUNED. MATERIALS NOT LABELED ON THE PROTECTION PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR REMEDIATION.
3. DURING CONSTRUCTION EXISTING TREES OVER FOUR INCHES IN CALIPER SHALL BE PROTECTED WITH BARRIER FENCING.
4. BARRIER SHALL BE CONSTRUCTED OF A MIN. 4' TALL SNOW FENCE OR SIMILAR AND SUPPORT POSTS MIN. 6' O.C. AND SHALL BE ERECTED ONE FOOT BEYOND THE DRIP LINE OFF ALL EXISTING TREES ON SITE AND ADJACENT SITES TO REMAIN.
5. BARRIER FENCING SHOWN ON THE PLAN IS APPROXIMATE. CONTRACTOR SHALL ADJUST LOCATION OF BARRIER TO POSITION OUTLINED IN COMMENT 4.
6. NO EXCESS SOIL OR ADDITIONAL FILL, BUILDING MATERIALS OR DEBRIS SHALL BE PLACED WITHIN THE PROTECTIVE BARRIER.
7. NO VEHICLES OR HEAVY MACHINERY SHALL BE ALLOWED TO WORK WITHIN THE BARRIER AREA.
8. NO ATTACHMENTS OR WIRES, OTHER THAN PROTECTIVE GUY WIRES, SHALL BE ATTACHED TO ANY OF THE TREES WHICH ARE WITHIN PROTECTIVE BARRIER.
9. STUMPS OR TREE REMAINS NOT TO BE FULLY EXCAVATED SHALL BE REMOVEED. A STUMP GRINDER SHALL BE USED TO REMOVE ALL REMAINING ROOTS AND WOODY MATERIAL. WITHIN A 24" RADIUS OF THE TREE TRUNK TO MIN. 6" BELOW GRADE. DISTURBED AREA SHALL BE BACKFILLED WITH COMPACTED TOPSOIL TO MEET SURROUNDING GRADES.

TREE PROTECTION &  
REMOVAL LEGEND

- EXISTING TREES TO REMAIN
- EXISTING TREE TO BE REMOVED
- BARRIER FENCING TO BE INSTALLED



1 TREE PROTECTION &  
REMOVAL PLAN - NORTH

SHEET SCALE 1"=30'  
0' 15' 30' 60' 90'

SURVEY OF EXISTING TREES

TREE #	SIZE	SCIENTIFIC NAME	COMMON NAME	LOCATION	COND/FORM	COMMENTS
133	14"	ELM HYBRID	ULMUS SSP.	SW	4	OFF-SITE, PROTECT
134	5,4	COTTONWOOD	POPULUS DELTOIDES	SW	4	REMOVE
135	4"	COTTONWOOD	POPULUS DELTOIDES	S	4	REMOVE
136	6,4,3	WILLOW SSP.	SALIX SSP.	S	3	REMOVE
137	5,4	WILLOW SSP.	SALIX SSP.	S	3	REMOVE
138	7"	RED OAK	QUERCUS RUBRA	SW	5	OFF-SITE, PROTECT
139	4"	COTTONWOOD	POPULUS DELTOIDES	CENTER	5	REMOVE
140	5"	COTTONWOOD	POPULUS DELTOIDES	CENTER	5	OFF-SITE, PROTECT
141	7"	RED OAK	QUERCUS RUBRA	SW	5	OFF-SITE, PROTECT
142	5,4,3	JUNIPER SSP.	JUNIPERUS SSP	W	4	OFF-SITE, PROTECT
143	6,3,3	JUNIPER SSP.	JUNIPERUS SSP	W	4	OFF-SITE, PROTECT
144	5"	JUNIPER SSP.	JUNIPERUS SSP	W	4	OFF-SITE, PROTECT
145	4,3	JUNIPER SSP.	JUNIPERUS SSP	W	4	OFF-SITE, PROTECT
146	4,3,3	JUNIPER SSP.	JUNIPERUS SSP	W	4	OFF-SITE, PROTECT
147	5"	JUNIPER SSP.	JUNIPERUS SSP	W	4	OFF-SITE, PROTECT
148	5"	JUNIPER SSP.	JUNIPERUS SSP	W	4	OFF-SITE, PROTECT
149	8"	COTTONWOOD	POPULUS DELTOIDES	W	5	REMOVE
150	4"	COTTONWOOD	POPULUS DELTOIDES	W	5	REMOVE
151	5"	RED OAK	QUERCUS RUBRA	W	5	OFF-SITE, PROTECT
152	4"	COTTONWOOD	POPULUS DELTOIDES	W	4	REMOVE
153	7"	COTTONWOOD	POPULUS DELTOIDES	W	4	REMOVE
154	4"	COTTONWOOD	POPULUS DELTOIDES	W	4	REMOVE
155	7"	COTTONWOOD	POPULUS DELTOIDES	W	4	REMOVE
156	5"	COTTONWOOD	POPULUS DELTOIDES	W	4	REMOVE
157	7"	RED OAK	QUERCUS RUBRA	NW	5	OFF-SITE, PROTECT
158	5,3	COTTONWOOD	POPULUS DELTOIDES	NW	4	REMOVE
159	5,4	COTTONWOOD	POPULUS DELTOIDES	NW	4	REMOVE
160	8"	COTTONWOOD	POPULUS DELTOIDES	NW	5	REMOVE
161	5"	COTTONWOOD	POPULUS DELTOIDES	NW	4	REMOVE
162	5"	COTTONWOOD	POPULUS DELTOIDES	NW	4	REMOVE
163	5"	COTTONWOOD	POPULUS DELTOIDES	NW	4	REMOVE
164	4"	COTTONWOOD	POPULUS DELTOIDES	NW	4	REMOVE
165	4,3	ELM HYBRID	ULMUS SSP	NW	4	OFF-SITE, PROTECT
166	5"	JUNIPER SSP.	JUNIPERUS SSP	NW	4	OFF-SITE, PROTECT
167	5"	JUNIPER SSP.	JUNIPERUS SSP	NW	4	OFF-SITE, PROTECT
168	4,3	JUNIPER SSP.	JUNIPERUS SSP	NW	3	OFF-SITE, PROTECT
169	4"	JUNIPER SSP.	JUNIPERUS SSP	NW	4	OFF-SITE, PROTECT
170	5"	JUNIPER SSP.	JUNIPERUS SSP	NW	4	OFF-SITE, PROTECT
171	5"	JUNIPER SSP.	JUNIPERUS SSP	NW	4	OFF-SITE, PROTECT
172	6"	RED OAK	QUERCUS RUBRA	NW	5	OFF-SITE, PROTECT
173	8"	RED OAK	QUERCUS RUBRA	NW	5	OFF-SITE, PROTECT
174	6"	RED OAK	QUERCUS RUBRA	NW	5	OFF-SITE, PROTECT
175	4"	JUNIPER SSP.	JUNIPERUS SSP	NW	4	OFF-SITE, PROTECT
176	5"	JUNIPER SSP.	JUNIPERUS SSP	NW	4	OFF-SITE, PROTECT
177	4"	JUNIPER SSP.	JUNIPERUS SSP	NW	4	OFF-SITE, PROTECT
178	4"	JUNIPER SSP.	JUNIPERUS SSP	NW	4	OFF-SITE, PROTECT
179	4"	JUNIPER SSP.	JUNIPERUS SSP	NW	4	OFF-SITE, PROTECT
180	9"	FREEMAN MAPLE	ACER FREEMANII	NW	5	OFF-SITE, PROTECT
181	5,4	COTTONWOOD	POPULUS DELTOIDES	NW	4	REMOVE
182	4"	COTTONWOOD	POPULUS DELTOIDES	NW	4	REMOVE
183	4"	COTTONWOOD	POPULUS DELTOIDES	NW	4	REMOVE
184	6"	COTTONWOOD	POPULUS DELTOIDES	NW	4	CROWDED
185	4"	COTTONWOOD	POPULUS DELTOIDES	NW	4	REMOVE
186	9"	COTTONWOOD	POPULUS DELTOIDES	NW	5	REMOVE
187	5,4	COTTONWOOD	POPULUS DELTOIDES	NW	4	CROWDED
188	6,5,4,3"	COTTONWOOD	POPULUS DELTOIDES	NW	3	REMOVE
189	5"	COTTONWOOD	POPULUS DELTOIDES	NW	5	REMOVE
190						
191						
192	4"	COTTONWOOD	POPULUS DELTOIDES	NW	4	PROTECT
193	4"	COTTONWOOD	POPULUS DELTOIDES	NW	5	PROTECT
194	8"	COTTONWOOD	POPULUS DELTOIDES	NW	4	PROTECT
195	5,4	COTTONWOOD	POPULUS DELTOIDES	NW	4	PROTECT
196	4"	COTTONWOOD	POPULUS DELTOIDES	N	4	PROTECT
197	6"	COTTONWOOD	POPULUS DELTOIDES	N	4	PROTECT
198	4"	COTTONWOOD	POPULUS DELTOIDES	N	4	PROTECT
199	4"	COTTONWOOD	POPULUS DELTOIDES	N	4	PROTECT
200	6,5,4	SALIX SSP.	WILLOW SSP.	N	3	PROTECT
201						
202						
203	6"	COTTONWOOD	POPULUS DELTOIDES	N	5	PROTECT
204	9"	COTTONWOOD	POPULUS DELTOIDES	N	5	PROTECT
205	5"	COTTONWOOD	POPULUS DELTOIDES	N	4	PROTECT
206	6"	COTTONWOOD	POPULUS DELTOIDES	N	4	PROTECT
207	5"	COTTONWOOD	POPULUS DELTOIDES	N	4	PROTECT
208	5,4	COTTONWOOD	POPULUS DELTOIDES	N	4	PROTECT
209	5"	COTTONWOOD	POPULUS DELTOIDES	N	4	PROTECT
210	5"	COTTONWOOD	POPULUS DELTOIDES	N	5	PROTECT
211	5"	COTTONWOOD	POPULUS DELTOIDES	NE	3	CROWDED, REMOVE
212	7,4	COTTONWOOD	POPULUS DELTOIDES	NE	3	CROWDED, REMOVE
213	6"	COTTONWOOD	POPULUS DELTOIDES	NE	4	REMOVE
214	7,4	COTTONWOOD	POPULUS DELTOIDES	NE	4	REMOVE
215	6"	COTTONWOOD	POPULUS DELTOIDES	NE	4	CROWDED
216	5"	COTTONWOOD	POPULUS DELTOIDES	NE	4	CROWDED
217						
218	4"	COTTONWOOD	POPULUS DELTOIDES	NE	5	REMOVE
219	4"	COTTONWOOD	POPULUS DELTOIDES	NE	4	REMOVE
220	5"	COTTONWOOD	POPULUS DELTOIDES	NE	4	REMOVE
221	4"	COTTONWOOD	POPULUS DELTOIDES	NE	4	REMOVE
222	4"	COTTONWOOD	POPULUS DELTOIDES	NE	4	REMOVE
223	4"	COTTONWOOD	POPULUS DELTOIDES	NE	4	REMOVE
224	6"	COTTONWOOD	POPULUS DELTOIDES	NE	4	REMOVE
225	4"	COTTONWOOD	POPULUS DELTOIDES	NE	4	REMOVE
226	5"	COTTONWOOD	POPULUS DELTOIDES	NE	4	REMOVE
227	5"	COTTONWOOD	POPULUS DELTOIDES	NE	4	REMOVE
228	6,5	COTTONWOOD	POPULUS DELTOIDES	NE	4	REMOVE
229	6"	COTTONWOOD	POPULUS DELTOIDES	NE	4	REMOVE
230	4"	COTTONWOOD	POPULUS DELTOIDES	NE	4	REMOVE
231	5"	COTTONWOOD	POPULUS DELTOIDES	NE	4	REMOVE
232	4,4	COTTONWOOD	POPULUS DELTOIDES	NE	4	REMOVE
233	5"	COTTONWOOD	POPULUS DELTOIDES	NE	4	REMOVE
234	5,4,3	WILLOW SSP.	SALIX SSP.	NE	4	REMOVE
235	5"	COTTONWOOD	POPULUS DELTOIDES	NE	4	REMOVE
236	5"	COTTONWOOD	POPULUS DELTOIDES	NE	4	REMOVE

BEST 5/5

BEST 5/5

237	4"	COTTONWOOD	POPULUS DELTOIDES	NE	4	REMOVE
238	5"	COTTONWOOD	POPULUS DELTOIDES	NE	4	REMOVE
239	4"	COTTONWOOD	POPULUS DELTOIDES	NE	3	CROWDED, REMOVE
240	8"	COTTONWOOD	POPULUS DELTOIDES	NE	4	REMOVE
241	5"	COTTONWOOD	POPULUS DELTOIDES	NE	4	REMOVE
242	8"	COTTONWOOD	POPULUS DELTOIDES	NE	5	DITCH, REMOVE
243	9"	COTTONWOOD	POPULUS DELTOIDES	NE	5	DITCH, REMOVE
244	7,5	COTTONWOOD	POPULUS DELTOIDES	NE	4	DITCH, REMOVE
245	7,7	WILLOW SSP.	SALIX SSP.	NE	5	DITCH, REMOVE

SEAL



EXPIRES 08/2023

PROJECT TEAM

CIVIL ENGINEER:



PROJECT NAME

CNG FUELING STATION

Southcreek Parkway &  
Chicago Tube Drive,  
Romeoville, Illinois

DRAWING ISSUED

NO.	TITLE	DATE
1.	Issued for Review	02/18/2022
2.	Per Village Comment	04/07/2022
3.	Per Village Comment	05/02/2022

SET TYPE  
LANDSCAPE PLANS

PROJECT NUMBER  
2202028

DATE  
02-18-2022  
DRAWN BY: LCG | APPROVED BY: LCG

SHEET TITLE  
SURVEY OF EXISTING TREES  
AND NOTES

SHEET NUMBER

L1.2

TREE PROTECTION &  
REMOVAL NOTES

- CONTRACTOR SHALL OBTAIN ALL NECESSARY STATE AND LOCAL PERMITS AND PERMISSIONS TO PRUNE, REMOVE, AND/OR TRANSPLANT ANY TREES ON SITE.
- DEAD AND DYING MATERIAL ON THE SITE SHALL BE REMOVED OR PRUNED. MATERIALS NOT LABELED ON THE PROTECTION PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR REMEDIATION.
- DURING CONSTRUCTION EXISTING TREES OVER FOUR INCHES IN CALIPER SHALL BE PROTECTED WITH BARRIER FENCING.
- BARRIER SHALL BE CONSTRUCTED OF A MIN. 3' TALL SNOW FENCE OR SIMILAR AND SUPPORT POSTS MIN. 6' O.C. AND SHALL BE ERECTED ONE FOOT BEYOND THE DRIP LINE OFF ALL EXISTING TREES ON SITE AND ADJACENT SITES TO REMAIN.
- BARRIER FENCING SHOWN ON THE PLAN IS APPROXIMATE. CONTRACTOR SHALL ADJUST LOCATION OF BARRIER TO POSITION OUTLINED IN COMMENT 4.
- NO EXCESS SOIL OR ADDITIONAL FILL, BUILDING MATERIALS OR DEBRIS SHALL BE PLACED WITHIN THE PROTECTIVE BARRIER.
- NO VEHICLES OR HEAVY MACHINERY SHALL BE ALLOWED TO WORK WITHIN THE BARRIER AREA.
- NO ATTACHMENTS OR WIRES, OTHER THAN PROTECTIVE GUY WIRES, SHALL BE ATTACHED TO ANY OF THE TREES WHICH ARE WITHIN PROTECTIVE BARRIER.
- STUMPS OR TREE REMAINS NOT TO BE FULLY EXCAVATED SHALL BE REMOVED. A STUMP GRINDER SHALL BE USED TO REMOVE ALL REMAINING ROOTS AND WOODY MATERIAL. WITHIN A 24" RADIUS OF THE TREE TRUNK TO MIN. 6" BELOW GRADE. DISTURBED AREA SHALL BE BACKFILLED WITH COMPACTED TOPSOIL TO MEET SURROUNDING GRADES.



SEAL



EXPIRES 08/2023

PROJECT TEAM

CIVIL ENGINEER:



PROJECT NAME

CNG FUELING STATION

Southcreek Parkway &  
 Chicago Tube Drive,  
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SET TYPE

LANDSCAPE PLANS

PROJECT NUMBER

2202028

DATE

02-18-2022

DRAWN BY: LCG APPROVED BY: LCG

SHEET TITLE

LANDSCAPE PLAN

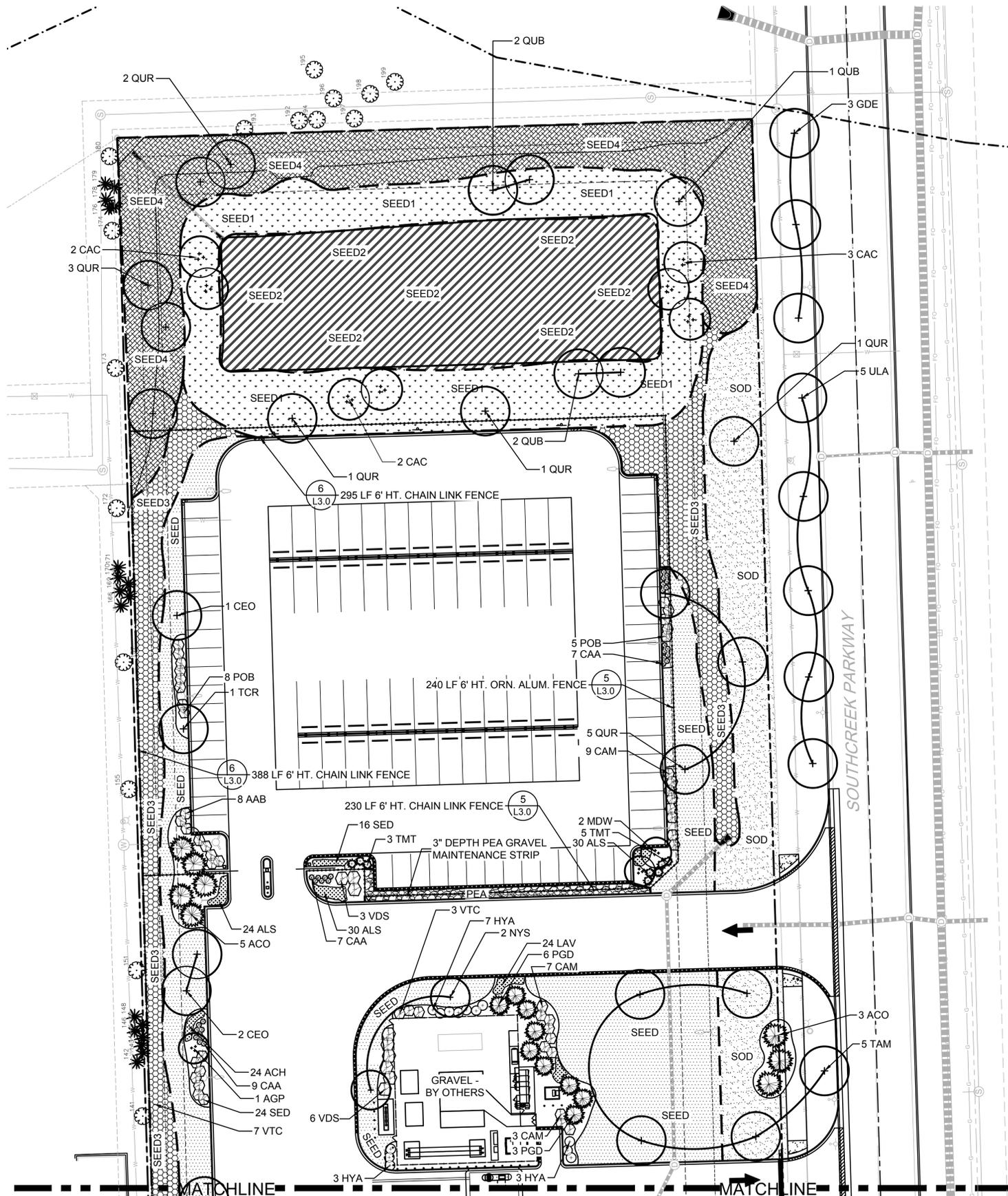
NORTH

SHEET NUMBER

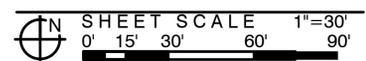
L2.1

LANDSCAPE LEGEND

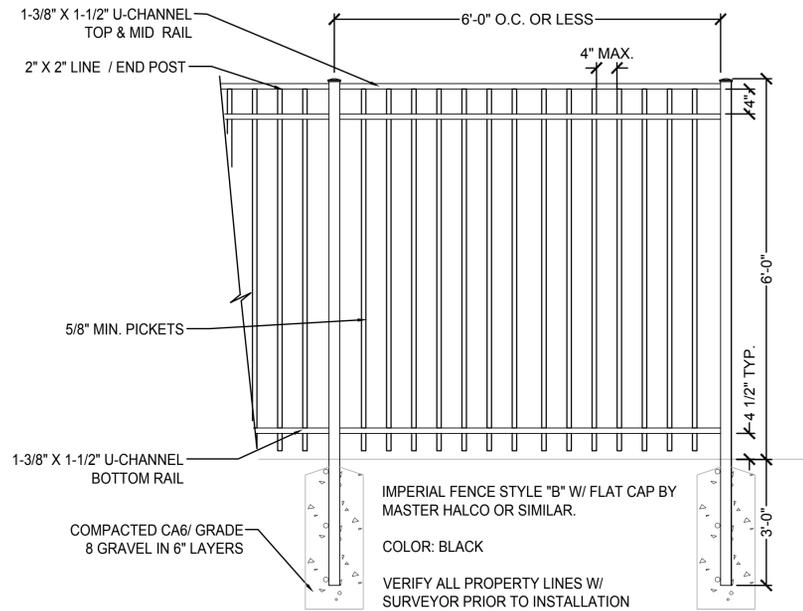
	EXISTING TREE		PROPOSED EVERGREEN SHRUB
	PROPOSED SHADE TREE		PROPOSED LOW SHRUB
	PROPOSED EVERGREEN TREE		PROPOSED ORNAMENTAL GRASS
	PROPOSED ORNAMENTAL TREE		PROPOSED PERENNIAL PLANTING
	PROPOSED LARGE SHRUB		SODDED LAWN
	PROPOSED MEDIUM SHRUB		SEEDDED LAWN
			NATIVE SEED1 MIX - BASIN SLOPES
			NATIVE SEED2 MIX - BASIN BOTTOM
			NATIVE SEED3 MIX - BIOSWALES
			NATIVE SEED4 MIX - UPLAND SLOPE
			3" DEPTH PEA GRAVEL MAINTENANCE STRIP



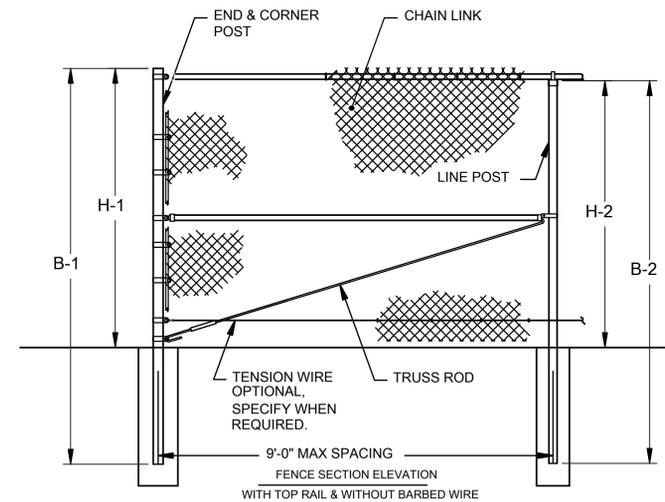
1 LANDSCAPE PLAN NORTH







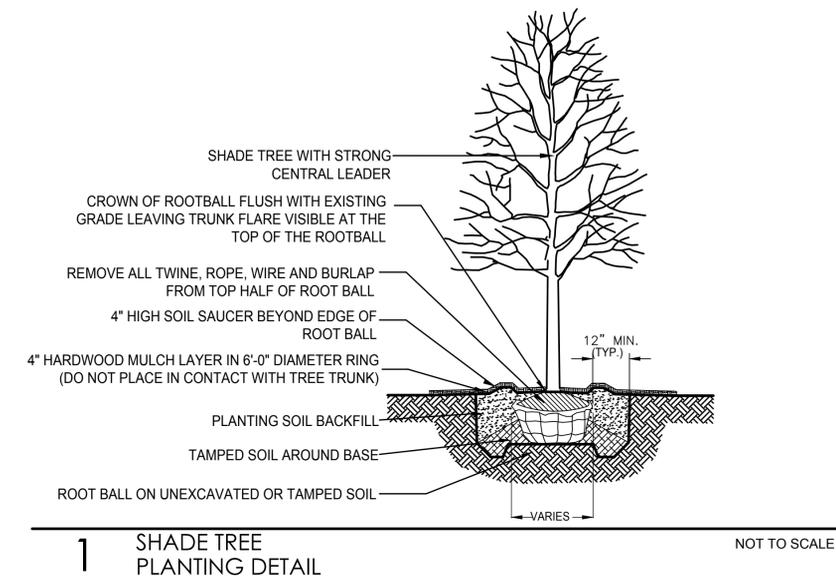
**5** 6'-0" HT. ORNAMENTAL ALUMINUM FENCE DETAIL NOT TO SCALE



FENCE HEIGHT	END & CORNER POSTS		LINE POSTS		
	NOMINAL HEIGHT	B-1 BAR LENGTH	H-1 HEIGHT ABOVE GRADE	B-2 BAR LENGTH	H-2 HEIGHT ABOVE GRADE
6'-0" [1829MM]	10'-0" [2743MM]	6'-2" [1845MM]	9'-10"	5'-10" [1749MM]	

NOTES:  
 1. THIS DWG CORRESPONDS WITH DWGS 1-1110 & 1-1130.  
 2. SPECIFICATIONS SHOWN CAN BE CHANGED BY MASTER HALCO ONLY.  
 3. COLOR TO BE BLACK.

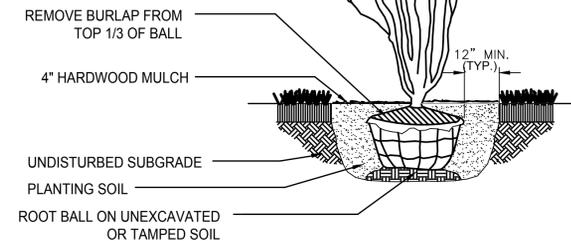
**6** 6'-0" HT. VINYL CLAD CHAIN LINK FENCE DETAIL NOT TO SCALE



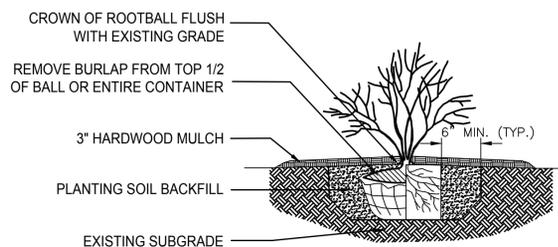
**1** SHADE TREE PLANTING DETAIL NOT TO SCALE

NOTES:

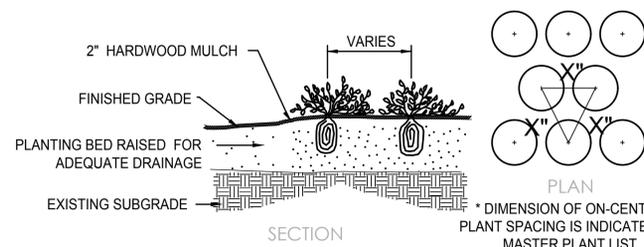
NEVER CUT LEADERS TREE SHALL BEAR SAME RELATION TO FINISHED GRADE AS IT BORE TO PREVIOUS GRADE.



**2** ORNAMENTAL TREE PLANTING DETAIL NOT TO SCALE



**3** SHRUB PLANTING DETAIL NOT TO SCALE



**4** PERENNIAL / ANNUAL PLANTING DETAIL NOT TO SCALE

LANDSCAPE NOTES

- CONTRACTOR SHALL OBTAIN ALL NECESSARY LOCAL PERMITS AND PERMISSIONS TO INSTALL THE PROPOSED IMPROVEMENTS
- ALL LANDSCAPE MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE VILLAGE OF ROMEOVILLE LANDSCAPING CODES AND ZONING ORDINANCES.
- PRIOR TO COMMENCING ANY WORK, CONTRACTOR SHALL HAVE DIGGERS HOTLINE LOCATE AND MARK ALL UNDERGROUND UTILITY FACILITIES AND LINES.
- ALL PLANT MATERIALS (EXCEPT FOR GROUND COVER, ANNUALS, AND PERENNIALS) SHALL BE BALLED AND BURLAPPED STOCK AND MEET CURRENT STANDARDS OF THE AMERICAN ASSOCIATION OF NURSERYMEN'S STANDARD FOR NURSERY STOCK (ANSI 260.1-1986) OR EQUAL. PLANT MATERIALS MUST BE SUPPLIED WITHIN A 150 MILE RADIUS OF PROJECT SITE WITHIN NORTHEAST ILLINOIS. CONTRACTOR MAY SUBSTITUTE CONTAINER STOCK FOR SHRUBS IF SIZES ARE EQUAL TO SPECIFIED B&B STOCK, WITH THE APPROVAL OF THE LANDSCAPE ARCHITECT.
- IF SPECIFIED PLANTS ARE NOT AVAILABLE AT THE TIME OF ORDERING, PLANTS WITH SIMILAR WHOLESALE VALUE AND LANDSCAPE CHARACTERISTICS MAY BE SUBSTITUTED UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT AND VILLAGE STAFF.
- SOIL IN GROUND COVER BEDS SHALL BE AMENDED USING 2 INCHES OF MUSHROOM COMPOST INCORPORATED INTO THE TOP 4 INCHES OF SOIL.
- DISTURBED AREAS TO RECEIVE SOD SHALL BE TILLED TO 6" DEPTH AND FINE GRADED TO PROVIDE SMOOTH BASE SURFACE. IF EXISTING SOIL IS A MAJORITY OF CLAY OR UNSUITABLE, 2" OF FINE GRADED TOPSOIL SHALL BE ADDED PRIOR TO TILLING. EXISTING SOD AREAS SHALL HAVE TURF REMOVED WITH AUTOMATED SODCUTTER OR HAND SPACE TO REMOVE ALL BLADES AND ROOTS. 1" OF FINE GRADED TOPSOIL SHALL BE TILLED AND GRADED.
- TREE AND SHRUB BACKFILL MIXTURE SHALL BE 2 PARTS EXIST. NATIVE TOPSOIL AND 1 PART SPHAGNUM PEAT MOSS W/ DECOMPOSED MANURE.
- ALL SHRUB BEDS AND INDIVIDUAL TREE PLANTINGS, UNLESS OTHERWISE NOTED, SHALL RECEIVE A 4 INCH LAYER OF SHREDDED HARDWOOD MULCH. ALL GROUND COVER, ANNUAL AND PERENNIAL BEDS SHALL RECEIVE A 2 INCH LAYER OF THE SAME MULCH MATERIAL. COSTS FOR MULCH SHALL BE CONSIDERED INCIDENTAL AND SHALL BE INCLUDED IN THE COST OF PLANTINGS.
- NURSERY TAGS (SPECIES, SIZE) FOR ALL SHADE TREES SHALL REMAIN ATTACHED TO TREES UNTIL FINAL APPROVAL FROM MUNICIPALITY.
- THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE OWNER A BONDED WRITTEN ONE-YEAR WARRANTY AGREEMENT (BEGINNING ON THE OWNER'S POSSESSION DATE). THIS AGREEMENT SHALL COVER MAINTENANCE, REPAIR, AND REPLACEMENT OF ALL DEAD OR DAMAGED LANDSCAPING TO PRESERVE THE SAME QUANTITY AND QUALITY AS INITIALLY APPROVED.
- CONTRACTOR SHALL PROVIDE A SEPARATE ESTIMATE FOR AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM FOR COMPLETE EFFECTIVE COVERAGE OF ALL LAWN AREAS AND SHRUB BEDS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL AND APPLY FOR ALL NECESSARY PERMITS PRIOR TO COMMENCING WORK. IRRIGATION PLANS SHALL INCLUDE HUNTER PRO-C CONTROLLER W/WIRELESS SOLAR SYNC STATION AND HUNTER SPRAYHEADS AND NOZZLES. IRRIGATION WORK SHALL BE WARRANTY ALL LABOR AND MATERIALS FOR 1 FULL YEAR AFTER INSTALLATION AND TESTING.
- SEEDED LAWN AREAS SHALL BE BID WITH A BID ALTERNATE FOR HYDROSEEDING LAWN. PRIOR TO SEEDING, 2" OF FINE TOPSOIL SHALL BE TILLED INTO EXIST SOIL MIXTURE. A MIX CONSISTING OF ROUGHLY 30% BLUEGRASS / 30% FINE FESCUES / 40% RYE GRASSES (AND TACKIFIER FOR HYDROSEEDING) SHALL BE APPLIED AT MANUFACTURERS SPECIFIED RATES FOR NEW LAWNS BETWEEN 5 AND 10 LBS PER 1,000 SF.
- TREES AND SHRUBS SHALL NOT BE LOCATED CLOSER THAN TEN (10) FEET TO FIRE HYDRANTS, TRANSFORMERS OR OTHER ABOVE GROUND UTILITIES. ANY DISCREPANCY ON THE PLAN RELATED TO THESE PROXIMATE UTILITIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR RESOLUTION.

NO.	TITLE	DATE
1.	Issued for Review	02/18/2022
2.	Per Village Comment	04/07/2022
3.	Per Village Comment	05/02/2022

## NATIVE LANDSCAPE WORK

### NATIVE LANDSCAPE WORK PART 1 - GENERAL

#### 1.1 DESCRIPTION OF WORK

THE PURPOSE OF THIS PLAN IS TO ESTABLISH NATIVE PLANT COMMUNITIES WITHIN NATURALIZED STORMWATER MANAGEMENT FACILITIES. THE AREAS TO BE PLANTED CONSISTS OF ONE (1) BASIN, BASIN SLOPES, OPEN PRAIRIE AND BIOSWALES.

#### 1.2 QUALITY ASSURANCE

- WORK SHALL CONFORM TO STATE OF ILLINOIS HORTICULTURAL STANDARDS AND LOCAL MUNICIPAL REQUIREMENTS.
- QUALITY CONTROL PROCEDURES:
  - SHIP LANDSCAPE MATERIALS WITH CERTIFICATES OF INSPECTION AS REQUIRED BY GOVERNMENTAL AUTHORITIES. COMPLY WITH GOVERNING REGULATIONS APPLICABLE TO LANDSCAPE MATERIALS.
  - DO NOT MAKE SUBSTITUTIONS. IF SPECIFIED LANDSCAPE MATERIAL IS NOT OBTAINABLE, SUBMIT TO LANDSCAPE ARCHITECT PROOF OF NON-AVAILABILITY AND PROPOSAL FOR USE OF EQUIVALENT MATERIAL.
  - ANALYSIS AND STANDARDS: PACKAGE STANDARD PRODUCTS WITH MANUFACTURERS CERTIFIED ANALYSIS.

#### 1.3 SUBMITTALS

- PLANTING SCHEDULE  
SUBMIT THREE (3) COPIES OF THE PROPOSED PLANTING SCHEDULE SHOWING DATES FOR EACH TYPE OF PLANTING
- MAINTENANCE INSTRUCTION - LANDSCAPE WORK  
SUBMIT TWO (2) COPIES OF TYPEWRITTEN INSTRUCTIONS RECOMMENDING PROCEDURES TO BE ESTABLISHED BY THE OWNER FOR THE MAINTENANCE OF LANDSCAPE WORK FOR ONE FULL YEAR. SUBMIT PRIOR TO EXPIRATION OF REQUIRED MAINTENANCE PERIODS. INSTRUCTIONS SHALL INCLUDE: WATERING, FERTILIZING, SPRAYING, MULCHING AND PRUNING FOR PLANT MATERIAL AND TRIMMING GROUNDCOVER. INSTRUCTIONS FOR WATERING, FERTILIZING AND MOWING GRASS AREAS SHALL BE PROVIDED TEN (10) DAYS PRIOR TO REQUEST FOR INSPECTION FOR FINAL ACCEPTANCE. LANDSCAPE ARCHITECT SHALL RECEIVE COPIES OF ALL INSTRUCTIONS WHEN ISSUED.

#### 1.4 JOB CONDITIONS

- EXAMINE AND EVALUATE GRADES, SOILS AND WATER LEVELS. OBSERVE THE CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED AND NOTIFY LANDSCAPE ARCHITECT OF UNSATISFACTORY CONDITIONS. DO NOT PROCEED WITH THE WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED IN AN ACCEPTABLE MANNER.
- UTILITIES: REVIEW UNDERGROUND UTILITY LOCATION MAPS AND PLANS; NOTIFY LOCAL UTILITY LOCATION SERVICE; DEMONSTRATE AN AWARENESS OF UTILITY LOCATIONS; AND CERTIFY ACCEPTANCE OF LIABILITY FOR THE PROTECTION OF UTILITIES DURING COURSE OF WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES OR PROPERTY.
- EXCAVATION: WHEN CONDITIONS DETRIMENTAL TO PLANT GROWTH ARE ENCOUNTERED SUCH AS RUBBLE FILL, ADVERSE DRAINAGE CONDITIONS OR OBSTRUCTIONS, NOTIFY LANDSCAPE ARCHITECT BEFORE PLANTING.

#### 1.5 GUARANTEES

- NATIVE PLANTING AREA PERFORMANCE CRITERIA  
1ST FULL GROWING SEASON: 90% OF COVER CROP SHALL BE ESTABLISHED. THERE SHALL BE NO BARE AREAS GREATER THAN TWO (2) SQUARE FEET IN SEEDED AREAS. AT LEAST 25% OF VEGETATION COVERAGE SHALL BE NATIVE, NON-INVASIVE SPECIES. AT LEAST 50% OF THE EMERGENT SPECIES, IF PLANTED AS PLUGS SHALL BE ALIVE AND APPARENT.

2ND FULL GROWING SEASON: ALL AREAS WITH THE EXCEPTION OF EMERGENT ZONES SHALL EXHIBIT FULL VEGETATIVE COVER. AT LEAST 50% OF THE VEGETATION COVERAGE SHALL BE NATIVE, NON-INVASIVE SPECIES.

3RD FULL GROWING SEASON: AT LEAST 75% OF VEGETATION COVERAGE SHALL BE NATIVE, NON-INVASIVE SPECIES. NON-NATIVE SPECIES SHALL CONSTITUTE NO MORE THAN 25% RELATIVE AERIAL COVERAGE OF THE PLANTED AREA. INVASIVE SPECIES FOR THIS PROJECT SHALL INCLUDE THE FOLLOWING: AMBROSIA ARTEMISIFOLIA & TRIFIDA (COMMON & GIANT RAGWEED), CIRSIUM ARVENSE (CANADA THISTLE), DIPSACUS LACINIATUS (CUT-LEAVED TEASEL), DIPSACUS SYLVESTRIS (COMMON TEASEL), LYTHRUM SALICARIA (PURPLE LOOSESTRIFE), MELILOTUS SP. (SWEET CLOVER), PHALARIS ARUNDINACEA (REED CANARY GRASS), PHRAGMITES AUSTRALIS (GIANT REED), FALLOPIA JAPONICA (JAPANESE KNOTWEED), RHAMNUS CATHARTICA & FRANGULA (COMMON & GLOSSY BUCKTHORN), TYPHA SP. (BROADLEAF, NARROWLEAF, AND HYBRID CATTAIL).

### NATIVE LANDSCAPE WORK PART 2 - PLANT MATERIALS

#### 2.1 NATIVE PLANTING MIXTURES

PROVIDE FRESH, CLEAN, NEW CROP OF THE SPECIES AND PROPORTIONS AS SPECIFIED. NATIVE SEED AND LIVE PLANT MATERIAL SHALL BE OBTAINED FROM A REPUTABLE SUPPLIER (APPROVED BY LANDSCAPE ARCHITECT) THAT HAS COLLECTED FROM SOURCES EAST OF THE MISSISSIPPI RIVER WITHIN THE SAME EPA LEVEL III ECOREGION AS THE PROJECT SITE (CENTRAL CORN BELT PLAINS). ANY MATERIAL SOURCED FROM OUTSIDE THIS ECOREGION MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

FOR EACH SPECIES, THE AMOUNT OF SEED INDICATED ON THE SPECIFICATIONS SHALL MEAN THE TOTAL AMOUNT OF PURE LIVE SEED (PLS) PER ACRE. SEED TAGS AND PLS TESTING INFORMATION SHALL BE PROVIDED TO THE OWNER PRIOR TO SEEDING. IT IS THE SOLE RESPONSIBILITY OF THE NATIVE LANDSCAPE CONTRACTOR TO PROVIDE APPROVED SEED THAT MEETS INDUSTRY-STANDARD PLS REQUIREMENTS.

- TEMPORARY COVER CROP:  
COVER CROPS SHALL BE INSTALLED IN ALL PLANTING AREAS CONTAINING DRY MESIC, MESIC, AND WET MESIC SOILS TO STABILIZE SOILS, AND COMBAT WEED PRESSURE DURING THE GERMINATION AND ESTABLISHMENT OF THE NATIVE SEEDING AREA.

FOR SPRING PLANTINGS USE SEED OATS AT THE SPECIFIED RATE BELOW:

BOTANICAL NAME	COMMON NAME	LBS./AC.
AVENA	SATIVA SEED OATS	40.0 LBS.

FOR FALL OR DORMANT PLANTINGS, USE REGREEN™ AT THE SPECIFIED RATES BELOW:

BOTANICAL NAME	COMMON NAME	LBS./AC.
TRITICUM	AESTIVUM REGREEN	50.0 LBS.

- FOR PLANTING LIST AND DETAILS SEE SHEET L2.1 & L2.2
- PLANTING SOIL MIXTURE  
PROVIDE PLANTING SOIL MIXTURE CONSISTING OF CLEAN UNCOMPACTED TOPSOIL (STOCKPILED AT SITE) FOR ALL PLANTING PITS, PERENNIAL, ANNUAL AND GROUNDCOVER AREAS. TOPSOIL SHALL BE CONDITIONED BASED ON ANY RECOMMENDATIONS RESULTING FROM THE SOIL TEST IN 1.3.C.
- EROSION CONTROL

- EROSION CONTROL BLANKET: NORTH AMERICAN GREEN S150BN, OR EQUIVALENT APPROVED EQUAL ON ALL SLOPES OVER 4:1

### LANDSCAPE WORK PART 3 - EXECUTION

#### 3.1 PLANTING SCHEDULE

AT LEAST THIRTY (30) DAYS PRIOR TO THE BEGINNING OF WORK IN EACH AREA, SUBMIT A PLANTING SCHEDULE FOR APPROVAL BY THE OWNER.

#### 3.2 PLANTINGS

- SEEDING NATIVE AREAS
  - THE PERIOD FOR PLANTING PRAIRIE SEED SHALL BE FROM APRIL 1 TO MAY 15 OR NOVEMBER 1 TO JUST BEFORE THE FIRST FROST. SEEDING OUTSIDE OF THESE TIMEFRAMES MUST BE APPROVED BY THE LANDSCAPE ARCHITECT. NATIVE SEED PLANTED OUTSIDE OF SPECIFIED TIMEFRAMES MUST HAVE AT LEAST 60 DAYS OF GROWTH PRIOR TO FROST. DORMANT SEEDING IN WINTER IS POSSIBLE IF SOIL CONDITIONS ALLOW.
  - THE GENERAL CONTRACTOR AND NATIVE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ALL WORK NECESSARY TO ACHIEVE AND MAINTAIN AN ACCEPTABLE SEEDBED PRIOR TO SEEDING. ALL AREAS MUST BE PROPERLY PREPARED BEFORE SEEDING BEGINS. EQUIPMENT HAVING LOW UNIT PRESSURE GROUND CONTACT SHALL BE UTILIZED WITHIN THE PLANTING AREAS.
  - IF PRESENT, COMPACTED SOILS SHALL BE DISKED OR RAKED PRIOR TO SEEDING. REMEDIAL MEASURES FOR THE ACCESS AREA MAY, AT THE DIRECTION OF THE WETLAND CONSULTANT, INVOLVE RIPPING FROM 12 TO 18 INCHES OF THE SOIL HORIZON PRIOR TO DISKING.
  - PRIOR TO SEEDING, PLANTING AREAS SHALL HAVE AT LEAST TWELVE INCHES OF CLEAN UN-COMPACTED TOPSOIL. CLUMPS, CLOUDS, STONES OVER 2" DIAMETER, ROOTS AND OTHER EXTRANEOUS MATTER SHALL BE REMOVED AND DISPOSED OF LEGALLY OFF-SITE.
  - GRANULAR MYCORRHIZAL INOCULANTS SHALL BE INSTALLED WITH THE SEED MIX AT A RATE OF 40LBS/ ACRE. INOCULANT CAN BE BANDED UNDER SEED, WORKED INTO SEED OR ADDED INTO SPRAY TANKS. NATIVE AREAS SHALL NOT RECEIVE FERTILIZER.
  - CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PROPER HANDLING AND STORAGE OF THE SEED ACCORDING TO THE BEST SEED HANDLING AND STORAGE PRACTICES, INCLUDING FUNGICIDE TREATMENTS AND STRATIFICATION CONSIDERATIONS. OWNER SHALL MAKE NO COMPENSATION FOR DAMAGE TO THE SEED BECAUSE OF IMPROPER STORAGE, CLEANING, THRESHING, OR SCREENING OPERATIONS.
  - EXCEPT WHERE SITE CONDITIONS PRECLUDE THEIR USE, SEEDING SHALL BE PERFORMED USING A TRUAX DRILL, TRUAX TRILLION SEEDER, OR COMPARABLE EQUIPMENT DESIGNED SPECIFICALLY FOR INSTALLATION OF NATIVE SEED. FOR AREAS WHERE SITE CONDITIONS PRECLUDE THE USE OF SPECIALIZED EQUIPMENT, SEED MAY BE INSTALLED THROUGH HAND BROADCASTING AND FOLLOWED BY LIGHT RAKING. HAND BROADCAST SEED SHALL BE SPREAD AT TWICE THE SPECIFIED RATE. OTHER METHODS OF SEED INSTALLATION MAY BE USED WITH PRIOR APPROVAL FROM THE LANDSCAPE ARCHITECT.
  - PRIOR TO STARTING WORK, ALL SEEDING EQUIPMENT SHALL BE CALIBRATED AND ADJUSTED TO SOW SEEDS AT THE PROPER SEEDING RATE. IN GENERAL, THE OPTIMUM SEEDING DEPTH IS 0.25 INCH BELOW THE SOIL SURFACE. AREAS WHERE THE SEED HAS NOT BEEN INCORPORATED INTO THE SOIL TO THE PROPER DEPTHS WILL NOT BE ACCEPTED, AND NO COMPENSATION FOR MATERIALS OR LABOR FOR THE REJECTED WORK WILL BE MADE BY THE OWNER.
  - SEEDING AND SOIL TRACKING/FIRMING SHALL NOT BE DONE DURING PERIODS OF RAIN, SEVERE DROUGHT, HIGH WINDS, EXCESSIVE MOISTURE, FROZEN GROUND, OR OTHER CONDITIONS THAT PRECLUDE SATISFACTORY RESULTS.
  - EMERGENT AREAS SHALL BE PLANTED, AND SEED ALLOWED TO GERMINATE (IF POSSIBLE), PRIOR TO FLOODING WITH SIGNIFICANT AMOUNTS OF WATER. ANY AREAS OF SIGNIFICANT PERMANENT WATER LOCATED WITHIN THE PLANTING AREA WILL RECEIVE LIVE PLUGS IN LIEU OF SEED.
  - AFTER THE SEEDING OPERATION IS COMPLETED, INSTALL EROSION CONTROL BLANKET PER MANUFACTURER'S SPECIFICATIONS.
  - EMERGENT PLUGS SHALL BE PLANTED IN NATURAL GROUPINGS WITHIN DESIGNED AREAS CONTAINING SATURATED SOILS OR SHALLOW INUNDATION. PLANTS WITHIN GROUPINGS SHALL BE PLANTED AT 2 FOOT CENTERS.
  - EMERGENT PLUGS SHALL NOT BE PLANTED LESS THAN THE SPECIFIED RATE AND SHALL BE PROTECTED WITH GOOSE ENCLOSURES SURROUNDING ALL NATURAL GROUPINGS OF PLUGS.
- INITIAL MAINTENANCE
  - BEGIN MAINTENANCE IMMEDIATELY AFTER PLANTING, CONTINUING UNTIL FINAL ACCEPTANCE. A MINIMUM OF THIRTY (30) DAYS.
  - MAINTAIN PLANTED AND SEEDED AREAS BY WATERING, ROLLING/REGRAIDING, REPLANTING AND IMPLEMENTING EROSION CONTROL AS REQUIRED TO ESTABLISH VEGETATION FREE OF ERODED OR BARE AREAS.
  - NATIVE PLANTING AREAS ARE TO BE MOWED ONLY ONCE PER SPRING DURING THE INITIAL THREE YEAR ESTABLISHMENT PERIOD.

## MAINTENANCE / PERFORMANCE STANDARDS OF NATIVE PLANTINGS

### 1. MONITORING

- THE OWNER SHALL NOTIFY THE VILLAGE UPON COMPLETION OF PLANTINGS. THE OWNER'S ENVIRONMENTAL SPECIALIST SHALL INSPECT THE PLANTINGS AND PROVIDE THE VILLAGE WITH A COPY OF THE PLANTING LOCATIONS, SPECIES, AND QUANTITIES FOR VERIFICATION.
- THE OWNER'S ENVIRONMENTAL SPECIALIST SHALL INSPECT THE PLANTINGS AT LEAST TWICE PER YEAR DURING THE THREE-YEAR TERM OF THE ESTABLISHMENT AND MAINTENANCE CASH BOND OR LETTER OF CREDIT, TO DETERMINE COMPLIANCE WITH THE MINIMUM ANNUAL PERFORMANCE CRITERIA (SEE 1.5C GUARANTEES). A MONITORING REPORT WILL BE PROVIDED TO THE COUNTY BY JANUARY 31ST FOLLOWING EACH INSPECTION.

### 2. MAINTENANCE:

- FIRST SEASON** - WITH THE EXCEPTION OF THE AREA, NATIVE SEEDING AREAS SHOULD BE MOWED TO A HEIGHT OF 6" TO CONTROL ANNUAL NONNATIVE AND INVASIVE SPECIES EARLY IN THE GROWING SEASON. MOWING, INCLUDING WEED WHIPPING, SHOULD BE CONDUCTED DURING PRIOR TO WEED SEED PRODUCTION. MOWING HEIGHT AND TIMING MAY NEED TO BE ADJUSTED PER TARGET SPECIES. SMALL QUANTITIES OF UNDESIRABLE PLANT SPECIES, SHALL BE CONTROLLED BY HAND PULLING PRIOR TO THE DEVELOPMENT AND MATURITY OF THE PLANT. HAND REMOVAL SHALL INCLUDE THE REMOVAL OF ALL ABOVE-GROUND AND BELOW-GROUND STEMS, ROOTS AND FLOWER MASSES PRIOR TO DEVELOPMENT OF SEEDS. HERBICIDE SHOULD BE APPLIED AS NECESSARY BY A TRAINED AND LICENSED OPERATOR THAT IS COMPETENT IN THE IDENTIFICATION OF NATIVE AND NONNATIVE HERBACEOUS PLANTS. DEBRIS AND LITTER SHALL BE REMOVED FROM THE NATIVE AREAS AND STORM STRUCTURES SHALL BE INSPECTED AND MAINTAINED AS NECESSARY.
- SECOND SEASON** - CONTROL OF UNDESIRABLE PLANT SPECIES DURING THE SECOND GROWING SEASON SHALL CONSIST PRIMARILY OF PRECISE HERBICIDE APPLICATION. MOWING AND WEED WHIPPING SHALL BE CONDUCTED AS NEEDED DURING THE EARLY GROWING SEASON AND AS NEEDED TO A HEIGHT OF 6 TO 8 INCHES TO PREVENT ANNUAL WEEDS FROM PRODUCING SEED. DEBRIS AND LITTER SHALL BE REMOVED FROM THE NATIVE AREAS AND STORM STRUCTURES SHALL BE INSPECTED AND MAINTAINED AS NECESSARY.
- THIRD SEASON** - SEASONAL MOWING AND HERBICIDE WILL CONTINUE AS ABOVE BUT SHOULD BE REDUCED OVER TIME. DEBRIS AND LITTER SHALL BE REMOVED FROM THE NATIVE AREAS AND STORM STRUCTURES SHALL BE INSPECTED AND MAINTAINED AS NECESSARY. AT THE COMPLETION OF THE THIRD GROWING SEASON (DEPENDENT ON FUEL AVAILABILITY; DOMINANCE OF GRAMINOID SPECIES; AND FAVORABLE WEATHER CONDITIONS), FIRE MAY BE INTRODUCED TO THE PLANTED AREAS AS A MANAGEMENT TOOL.
  - STATE AND LOCAL PERMITS SHALL BE REQUIRED PRIOR TO CONTROLLED BURNING. BURNING SHALL BE CONDUCTED BY TRAINED PROFESSIONALS EXPERIENCED IN MANAGING SMOKE IN URBAN ENVIRONMENTS. PRIOR TO A CONTROLLED BURN, SURROUNDING PROPERTY OWNERS AS WELL AS LOCAL FIRE AND POLICE DEPARTMENTS SHALL BE NOTIFIED. A BURN PLAN DETAILING PREFERRED WIND DIRECTION AND SPEED, LOCATION OF FIRE BREAKS, AND NECESSARY PERSONNEL AND EQUIPMENT SHALL BE PREPARED AND UTILIZED IN PLANNING AND BURN IMPLEMENTATION.
  - THE INITIAL BURN SHALL BE DEPENDENT ON FUEL AVAILABILITY WHICH IS DIRECTLY RELATED TO THE QUANTITY AND QUALITY OF GRASSES CONTAINED WITHIN THE PLANT MATRIX. TIMING OF THE BURN SHALL BE DETERMINED BASED ON RESULTS OF THE ANNUAL MONITORING INDICATING SPECIES COMPOSITION OF THE MANAGEMENT AREA AND OTHER ANALYSIS OF MANAGEMENT GOALS. GENERALLY, BURNS SHALL BE SCHEDULED FROM SPRING TO FALL ON A ROTATIONAL BASIS. BURN FREQUENCY SHALL ALSO BE DEPENDENT ON THE SPECIES COMPOSITION WITHIN THE MANAGEMENT AREA. GENERALLY, A NEW PRAIRIE RESTORATION AREA SHALL BE BURNED ANNUALLY FOR TWO YEARS AFTER THE SECOND OR THIRD GROWING SEASON AFTER PLANTING AND THEN EVERY 2-3 YEARS THEREAFTER, BURNING 50-75% OF THE AREA.
- LONG TERM WETLAND AND PRAIRIE MANAGEMENT/MAINTENANCE**
  - A FINAL COMPLIANCE REPORT AND LONG-TERM OPERATION AND MAINTENANCE PLAN SHALL BE SUBMITTED BY THE DEVELOPER/OWNER'S ENVIRONMENTAL SPECIALIST NO LESS THAN 60 DAYS PRIOR TO THE EXPIRATION OF ANY LANDSCAPE CASH BOND OR LETTER OF CREDIT POSTED FOR THE NATIVE AREAS. FINAL ACCEPTANCE AND RELEASE SHALL BE DETERMINED BY THE VILLAGE UPON INSPECTION OF THE SITE TO VERIFY COMPLIANCE.
  - THE LONG -TERM OPERATION AND MAINTENANCE PLAN SHALL BE WRITTEN TO INCLUDE GUIDELINES AND SCHEDULES FOR BURNING, MOWING, APPLICATION OF HERBICIDE, DEBRIS/LITTER REMOVAL AND INSPECTION SCHEDULE FOR STORM STRUCTURES AND SEDIMENT REMOVAL.

### 4. CLEAN UP AND PROTECTION

- DURING LANDSCAPE WORK, STORE MATERIALS AND EQUIPMENT WHERE DIRECTED. KEEP PAVEMENTS CLEAN AND WORK AREAS AND ADJOINING AREAS IN AN ORDERLY CONDITION.
- PROTECT LANDSCAPE WORK AND MATERIALS FROM DAMAGE DUE TO LANDSCAPE OPERATIONS, OPERATIONS BY OTHER TRADES AND TRESPASSERS. MAINTAIN PROTECTION DURING INSTALLATION AND MAINTENANCE PERIODS. TREAT, REPAIR OR REPLACE DAMAGED LANDSCAPE WORK AS DIRECTED BY LANDSCAPE ARCHITECT.

### 5. INSPECTION AND ACCEPTANCE

- THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO INSPECT SEEDS, PLANTS, TREES AND SHRUBS EITHER AT PLACE OF GROWTH OR AT SITE BEFORE PLANTING FOR COMPLIANCE WITH REQUIREMENTS FOR NAME, VARIETY, SIZE, QUANTITY, QUALITY AND MIX PROPORTION.
- SUPPLY WRITTEN AFFIDAVIT CERTIFYING COMPOSITION OF SEED MIXTURES AND INTEGRITY OF PLANT MATERIALS WITH RESPECT TO SPECIES, VARIETY AND SOURCE.
- NOTIFY THE LANDSCAPE ARCHITECT WITHIN FIVE (5) DAYS AFTER COMPLETING INITIAL AND/OR SUPPLEMENTAL PLANTINGS IN EACH AREA.
- WHEN THE LANDSCAPE WORK IS COMPLETED, INCLUDING MAINTENANCE, THE LANDSCAPE ARCHITECT WILL, UPON REQUEST, MAKE A FINAL INSPECTION TO DETERMINE ACCEPTABILITY. AFTER FINAL ACCEPTANCE, THE OWNER WILL BE RESPONSIBLE FOR MAINTENANCE.
- INVASIVE WOODY VEGETATION REMOVAL**
  - THIS SECTION INCLUDES THE SELECTIVE CUTTING AND DISPOSAL OF WOODY BRUSH PRIMARILY TARGETING NON-NATIVE SHRUBS.
  - WORK SHALL BE SUPERVISED BY A CERTIFIED ARBORIST WHO IS COMPETENT AT THE IDENTIFICATION OF PLANT MATERIALS TO BE REMOVED AND NATIVE SPECIES TO BE PRESERVED.
  - HERBICIDE TO BE USED FOR BASAL APPLICATIONS OF CUT STUMPS SHALL BE TRICLOPYR: 3,5,6-TRICHLORO-2-PYRIDINYLOXYACETIC ACID, BUTOXYETHYL ESTER, TRADE NAME GARLON 4 OR EQUIVALENT.
  - CONTRACTOR WILL CUT ALL WOODY SPECIES TO BE REMOVED WITH HAND TOOLS INCLUDING BUT NOT LIMITED TO GAS POWERED CHAINSAWS, GAS POWERED CLEARING SAWS, BOW SAWS, AND LOPPERS.
  - ALL STUMPS SHALL BE CUT FLAT WITH NO SHARP POINTS, AND TO WITHIN TWO INCHES OF SURROUNDING GRADE. STUMPS SHALL BE PAINTED WITH GARLON 4, OR EQUIVALENT, IMMEDIATELY AFTER CUTTING.
  - A SUPPLY OF CHEMICAL ABSORBENT SHALL BE KEPT ON-SITE. SPILLS SHALL BE PROPERLY CLEANED UP AND REPORTED IMMEDIATELY TO THE OWNER.
  - THE CONTRACTOR SHALL MAINTAIN COPIES AT THE PROJECT SITE OF ALL CURRENT PESTICIDE APPLICATOR'S LICENSES, HERBICIDE LABELS, AND MSDS'S (MATERIAL SAFETY DATA SHEETS) FOR ALL CHEMICALS UTILIZED DURING COMPLETION OF WORK.
  - REMOVAL OF UNDESIRABLE WOODY SPECIES SHALL PREFERENTIALLY OCCUR WHEN GROUND IS FROZEN.
  - CUT BRUSH PILES SHALL NOT EXCEED EIGHT (8) FEET IN HEIGHT BY TWELVE (12) FEET IN DIAMETER. PILES SHALL BE SPACED AS NECESSARY TO MINIMIZE DRAGGING CUT MATERIAL. PILES MUST BE LOCATED IN OPEN AREAS WITHOUT CANOPY BRANCHES OF PRESERVED TREES EXTENDING OVER THE PILES. PILES SHALL BE BURNED WHILE TAKING PREVAILING WINDS INTO ACCOUNT. ASH FROM BURN PILES SHALL BE DISPERSED ACROSS THE SITE AT A DEPTH NOT TO EXCEED ½ INCH. \* NOTE: IF CUT BRUSH IS TO BE REMOVED FROM THE SITE RATHER THAN BURNED, NO RESTRICTION OF BRUSH PILE SIZE IS APPLICABLE.
  - SPECIES DESIGNATED FOR REMOVAL:  
SCIENTIFIC NAME COMMON NAME DISPOSITION  
RHAMNUS SPP. BUCKTHORN SPECIES REMOVE ALL
  - REPAIR: REPAIR ANY DAMAGES CAUSED BY CONTRACTOR DURING COMPLETION OF THE WORK. SAID DAMAGES MAY INCLUDE BUT ARE NOT LIMITED TO TIRE RUTS IN THE GROUND, DAMAGE TO LAWN AREAS, DAMAGE TO TRAILS, ETC. IN THE EVENT ANY VEGETATION TO BE PRESERVED IS DAMAGED, NOTIFY THE OWNER WITHIN 24 HOURS. THE CONTRACTOR WILL BE LIABLE FOR REMEDYING DAMAGES TO PLANT MATERIALS TO THE SATISFACTION OF THE OWNER

## SEAL



EXPIRES 08/2023

## PROJECT TEAM

CIVIL ENGINEER:



## PROJECT NAME

CNG FUELING STATION

Southcreek Parkway &  
Chicago Tube Drive,  
Romeoville, Illinois

## DRAWING ISSUED

NO.	TITLE	DATE
1.	Issued for Review	02/18/2022
2.	Per Village Comment	04/07/2022
3.	Per Village Comment	05/02/2022

## SET TYPE

LANDSCAPE PLANS

## PROJECT NUMBER

2202028

## DATE

02-18-2022

DRAWN BY: | APPROVED BY:

LCG | LCG

## SHEET TITLE

NATIVE PLANTINGS SPECS /  
MAINTENANCE

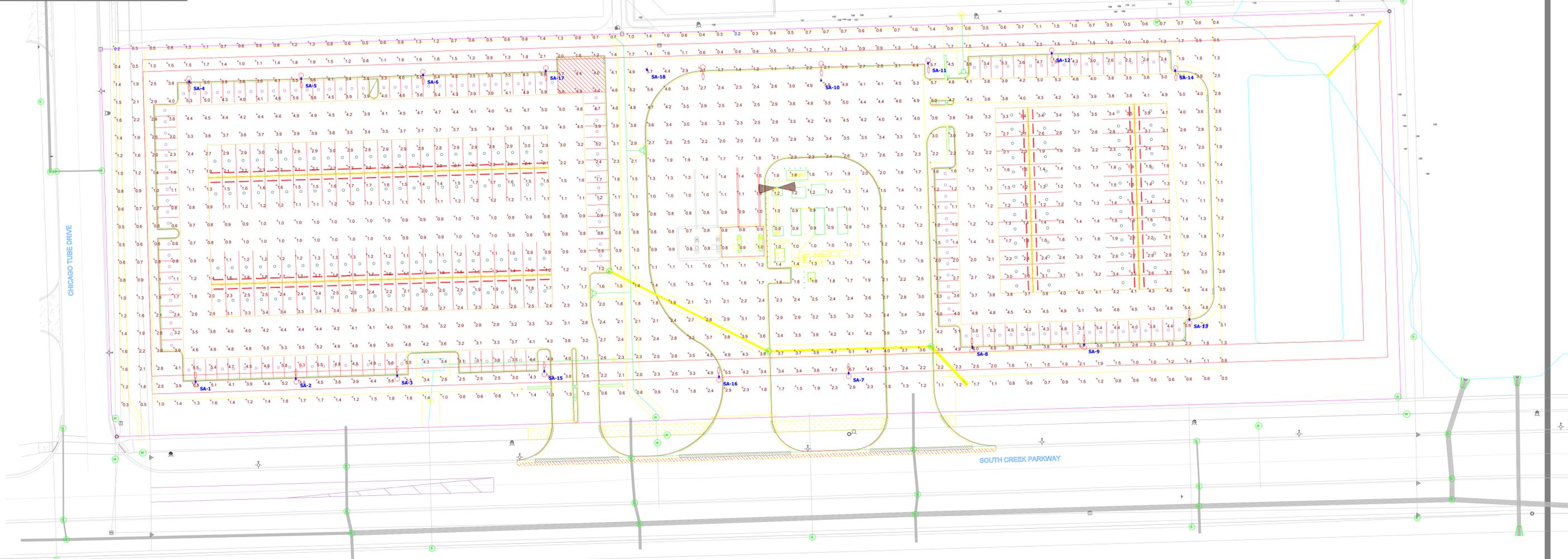
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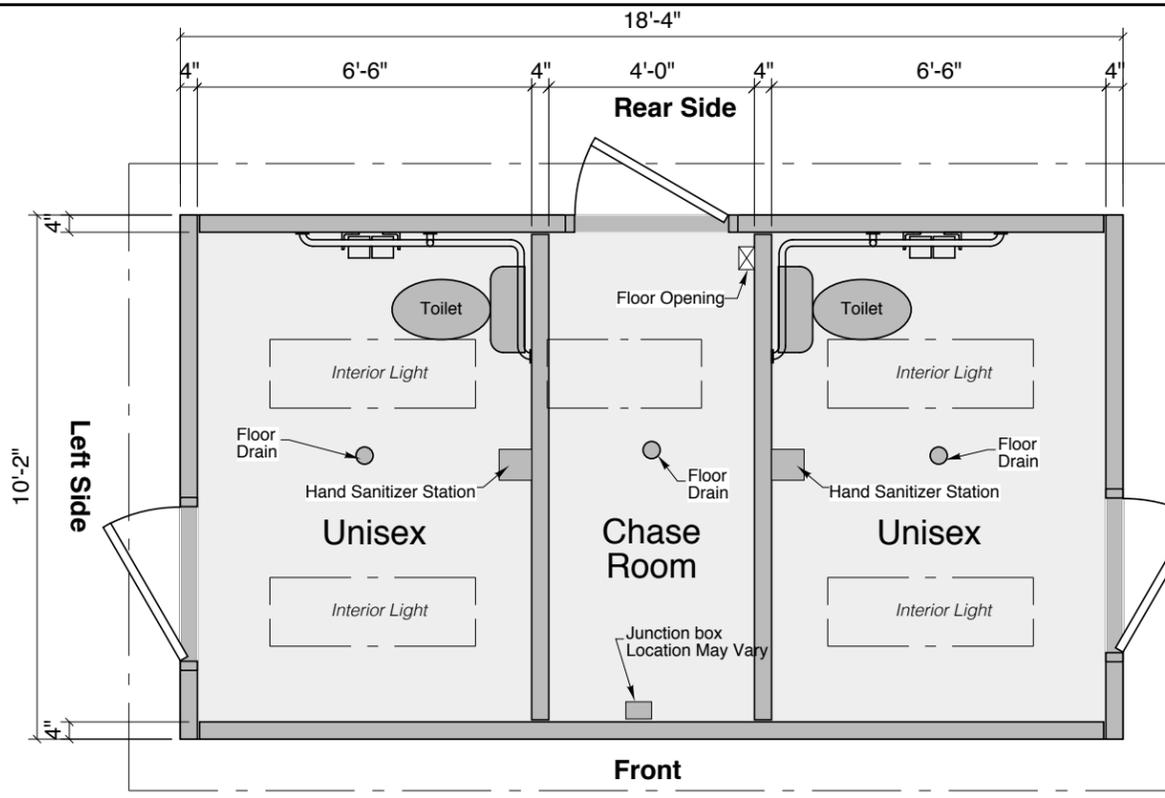
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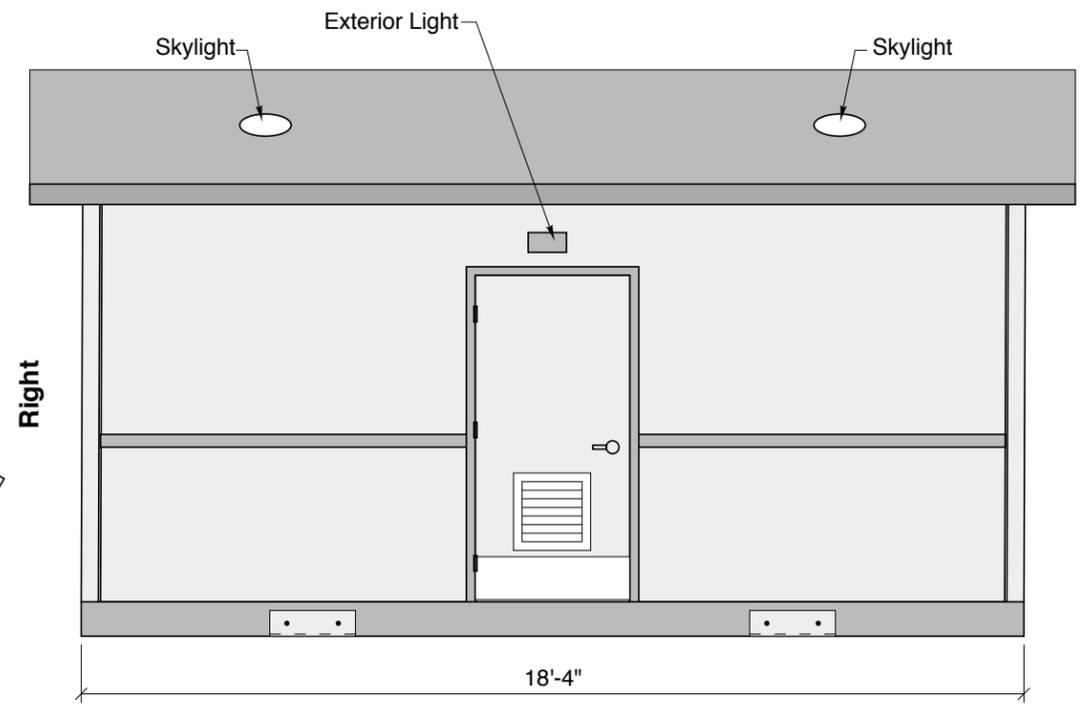
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3	SA	242.64	26.33	35.00	0.00	0.00
4	SA	66.62	277.10	35.00	180.00	0.00
5	SA	161.35	279.44	35.00	180.00	0.00
6	SA	264.52	282.62	35.00	180.00	0.00
7	SA	624.66	28.52	35.00	0.00	0.00
8	SA	729.35	50.41	35.00	0.00	0.00
9	SA	823.87	52.59	35.00	0.00	0.00
10	SA	601.25	278.04	35.00	180.00	0.00
11	SA	691.79	292.45	35.00	180.00	0.00
12	SA	796.44	300.95	35.00	180.00	0.00
13	SA	912.92	73.83	35.00	0.00	0.00
14	SA	900.86	286.34	35.00	180.00	0.00
15	SA	367.05	30.22	35.00	0.00	0.00
16	SA	514.85	25.44	35.00	0.00	0.00
17	SA	368.29	285.90	35.00	180.00	0.00
18	SA	454.00	287.04	35.00	180.00	0.00



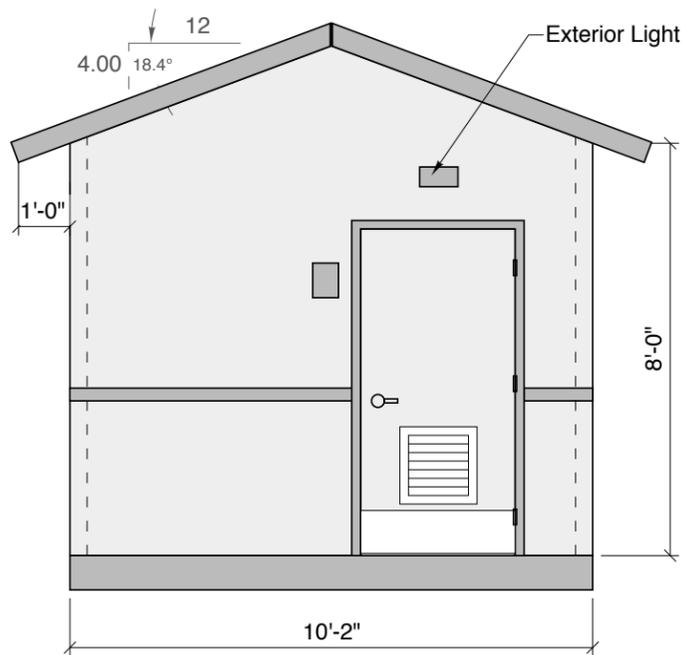
Plan View  
Scale: 1" = 40ft



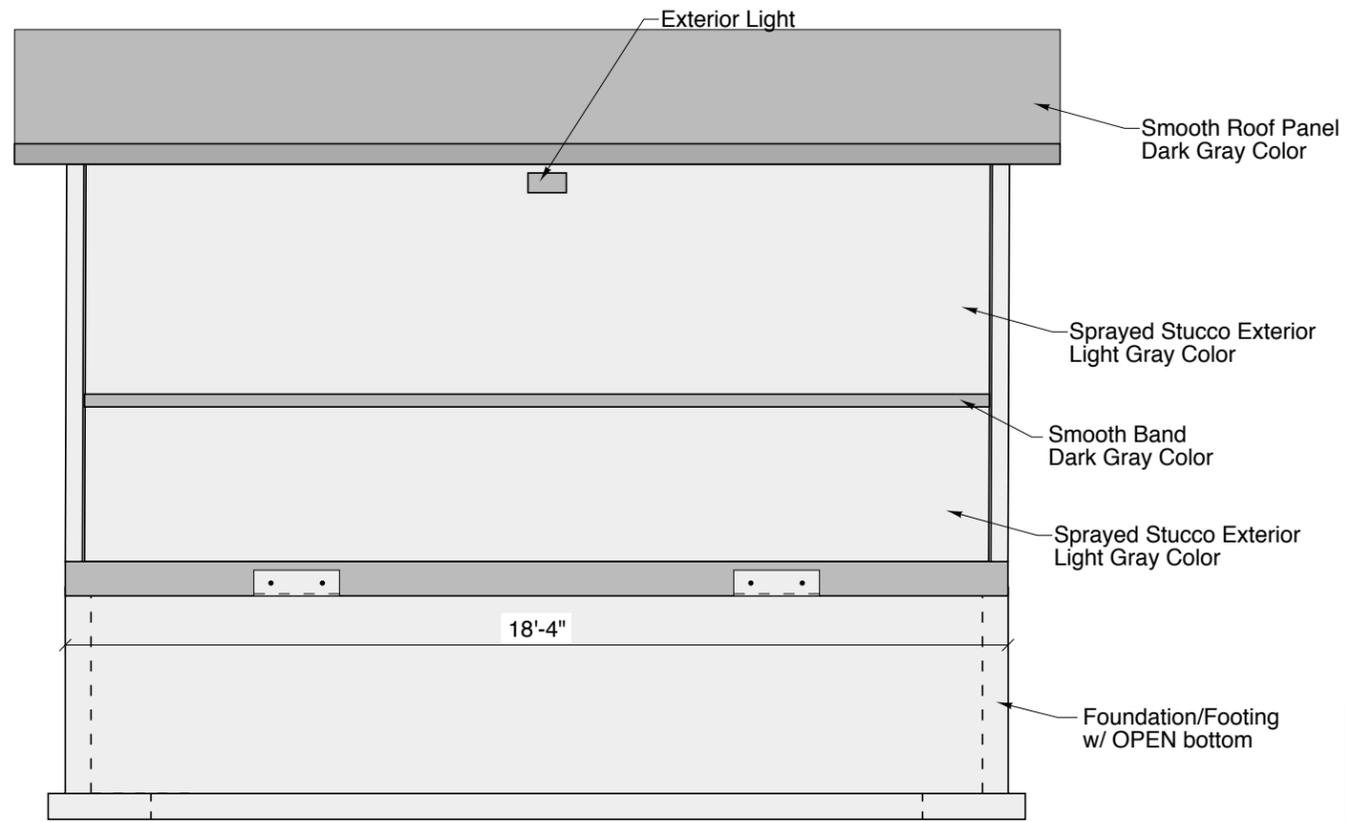
**Plan View**



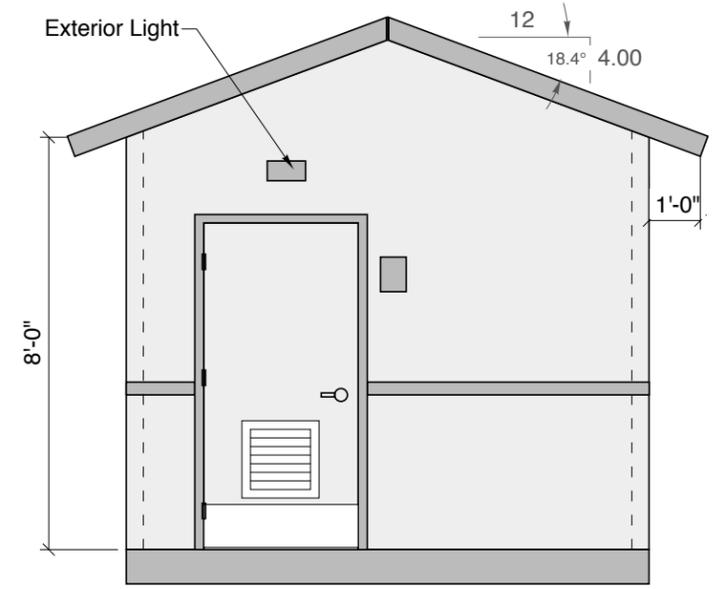
**Rear Elevation**



**Left Side Elevation**



**Front Elevation**



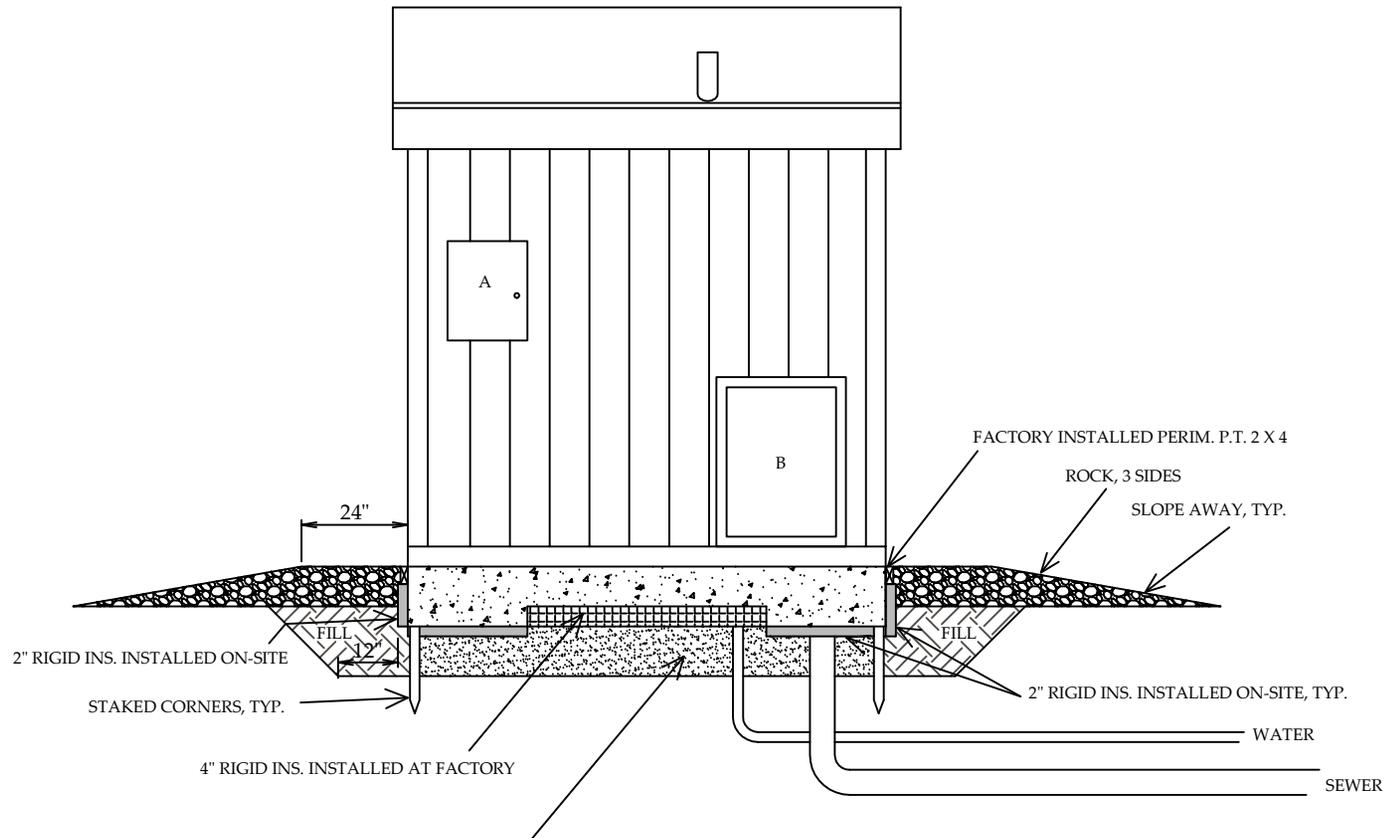
**Right Side Elevation**

Notes:  
Concrete - 5000 PSI  
Reinforcement - Grade 60

**RM 300 - Flush Building**

**Crest Precast, Inc.**  
**La Crescent, MN & Barneveld, WI**  
800-658-9045

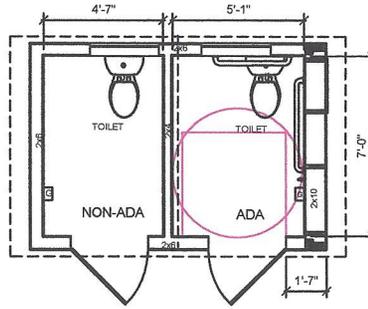
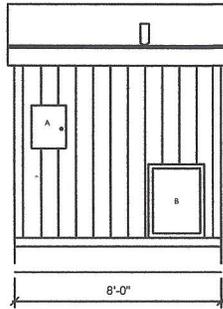
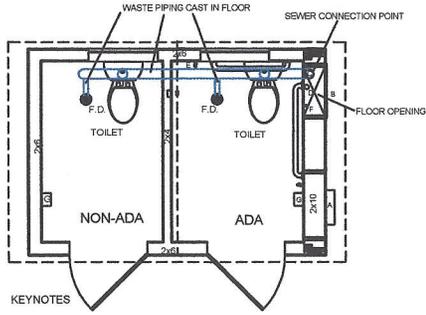
Job #		Drawn By:	KK
Date	1-20-21	Revision	2-7-22
Project:	<b>RM 300 Flush Building</b>		
Contractor:	<b>Clean Energy</b>	Drawing Number	<b>1</b>



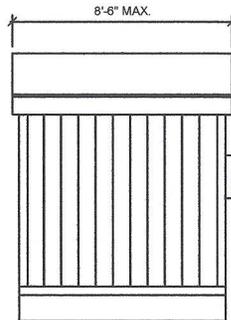
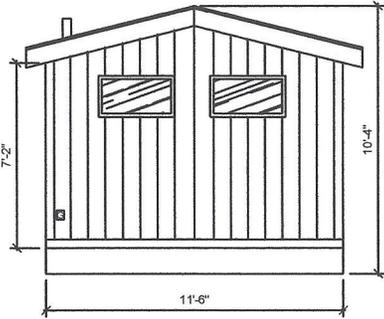
UNCOMPACTED SAND OR 3/4" MINUS COMPACTED TO 92% MLD  
 LEVEL TO WITHIN 1/8" IN 10', ALL DIRECTIONS. 12" MIN. OR TO FROST DEPTH  
 SITE CAST FOUNDATIONS (IF REQ'D) ARE NOT SHOWN

## SITE WORK DETAIL FOR SUNDANCE RESTROOM CLEAN ENERGY, ROMEOVILLE, IL.



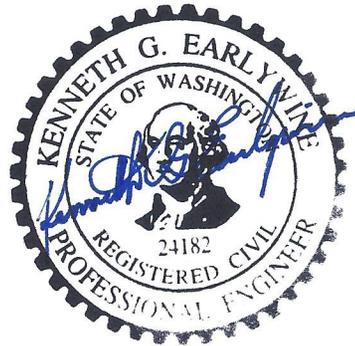
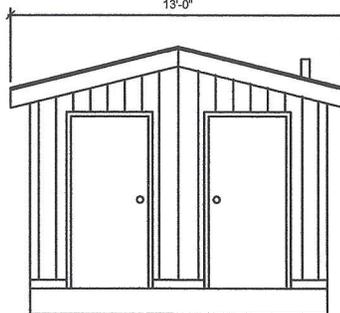


- A. ELECT. SERVICE PANEL
- B. MECH. SERVICE PANEL
- C. 4" VENT THRU ROOF
- D. WATER SUPPLY HOLE
- E. HOSE BIB
- F. TRAP PRIMER
- G. HAND SANITIZER
- H. DUPLEX RECEPTACLE



RIGID FOAM

SECTION THRU FLOOR



Green Flush Materials List				
Materials may be substituted provided they are approved equals				
Framed Salslh				
Clean Energy				
<b>PLANS AND APPROVALS</b>				
Engineering	Complete set of stamped plans			
State tags	YES			
Factory inspections	YES			
<b>ARCHITECTURAL ELEMENTS FOR FRAMED ASPEN WITHOUT PORCH</b>				
QUANT.				
L.S.	Concrete Floor	4000 psi min	surface sealer & admix.	Silencure SRT or ProtocoSil BHN sealer
L.S.	Floor finish	Broom finish		
L.S.	Wall framing	2x4		per energy code
L.S.	Rafters	2x		per energy code
L.S.	Energy code	YES		
L.S.	Siding	Vertical groove	LP Smart Panel	Cedar pattern
L.S.	Siding at gables	Vertical groove	LP Smart Panel	Cedar pattern
L.S.	Soffit	Hardie board	LP Smart Panel	Cedar pattern
L.S.	Fascia	1x		
L.S.	Roofing	30 year Owens Corning shingles	Duration	
L.S.	Interior cabin walls	FRP covered plywood		
L.S.	Mech. Room walls	Painted plywood		
L.S.	Int. cabin gable walls	Hardie board	Cedar Mill pattern	
L.S.	Cove base	4" or 6" vinyl		
L.S.	Interior ceilings	Hardie board	Cedar Mill pattern	
3	Doors	18 gage HM		
3	Frames	16 gage HM	Welded corners	
1 ea.	Grab bars	18", 36", 42"		
2	TP Holder	Royce Rolls TP2		
L.S.	Signs	per code "Restroom"		
2	Coat hook	Bobrick B-682		
<b>HW Group 1C</b>				
2	Single occupant cabin with occup. indicator	Corridor lock, mortise Throw bolt with occ. Ind.	Schlage L9456R 06A 630 L283-722	
		Door closer	Schlage	B571622
		Hinges	LCN	4040XP
		Threshold	SS-BBH-NRP	
		Kickplate (push side)	Pemco	
		Door sweep	Tice	10 x 34
			Pemco	
<b>HW Group 2</b>				
1	Mechanical Room	Storeroom lock	Schlage	ND80PD
		Hinges	SS-BBH-NRP	
		Threshold	Pemco	
		Door sweep	Pemco	
		Check chain		
<b>PLUMBING PACKAGE</b>				
QUANT.				
2	Stealth single flush toilet	Rear discharge	Elongated bowl, ADA	White open end seat
2	Lavatory	Kohler	K-2007 Single	
2	Matering faucet	Chicago	807-E2805-569P/SHAB	Set for 10 seconds of operation
1	Hose bib on exterior	Woodford	24-PC	Removable operator handle
2	Low profile floor drain	Zurn	2451	with trap filler if req's by code
2	Trap primer	Proflo	PPF2500	
2	Trap seal	JR Smith	Quad Seal 2692-02	
LS	Sewer & vent pipe	Schedule 40 PVC		
1	Water Heater	EeMax	EMT-1	1.3 gallon tank, 120VAC plug-in
LS	Waterlines	Aquapex		
LS	Water line insulation	Rigid foam tube pipe	All waterlines in Mech. Rm.	
2	Sink trap guards			
<b>ELECTRICAL PACKAGE 120VAC SYSTEM</b>				
QUANT.				
1	Electrical panel	Square D	100 amp	
3	120 VAC LED Int. lights	CTL	LWP15BZDLP	15 Watt
1	120 VAC LED Ext. lights	CTL	LWP15BZDLP	15 Watt
1	120 VAC Daylight sensor	For mechanical room		
2	Light switch with motion sensor	Pass and Seymour	RW3U600	Operates light and heat exchanger
1	Standard Light switch	For mechanical room		
1	4 gang outlet	In mechanical room		
<b>HEAT</b>				
1	Heat Exchanger ERV	Fantech FT120E ERV	run supply and exhaust ducting to each room appropriately	
2	Heating panels	Radiant Systems cove heaters	C-4512	Place as high as possible on gable wall
2	Program. Thermostat	Honeywell	P-8001	

DATE	REV	REVISION	BY	DATE	REV	REVISION	BY



PROJECT NAME & LOCATION:  
**SUNDANCE**  
**Clean Energy, Romeoville, IL.**

SHEET TITLE:  
**Floor Plan & Elevations**

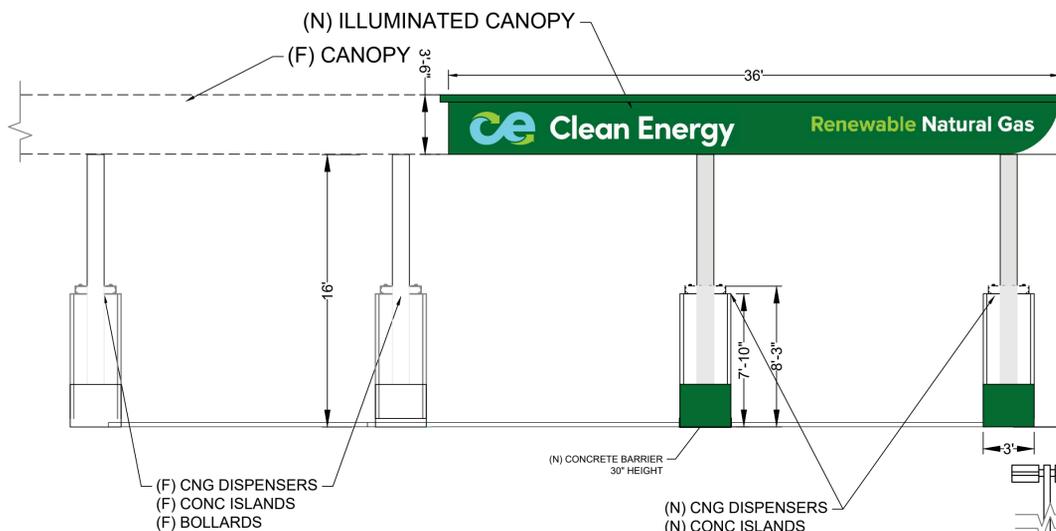
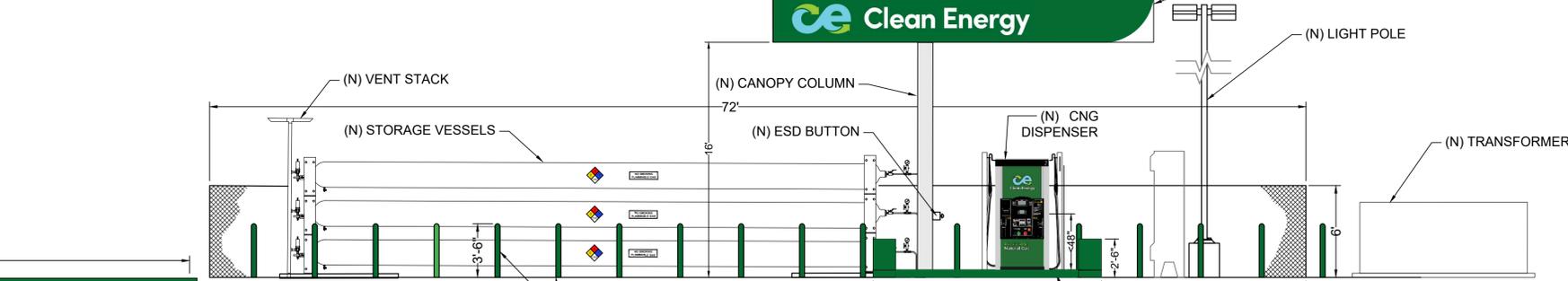
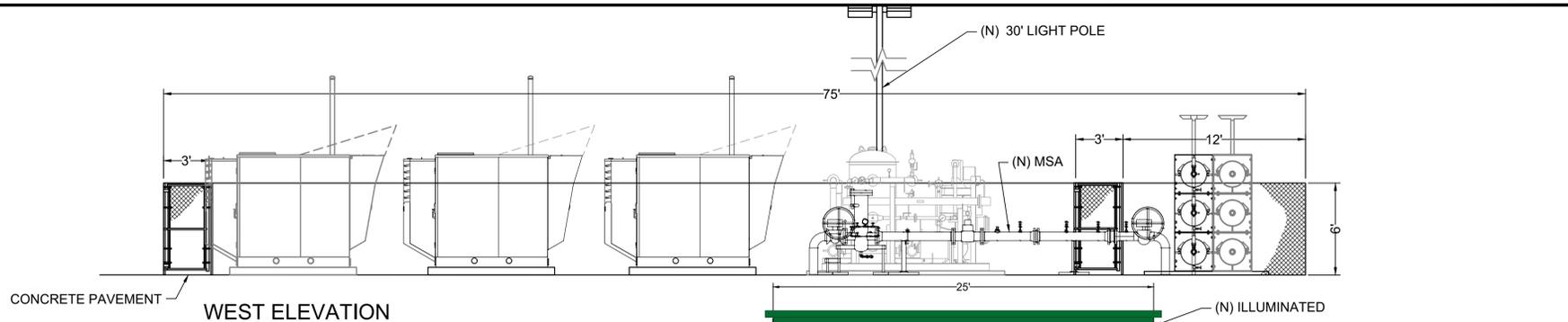
Approved for Const:  
File Copy:  
Drawn By:  
Issue Date:

Job No:  
**A1.1**

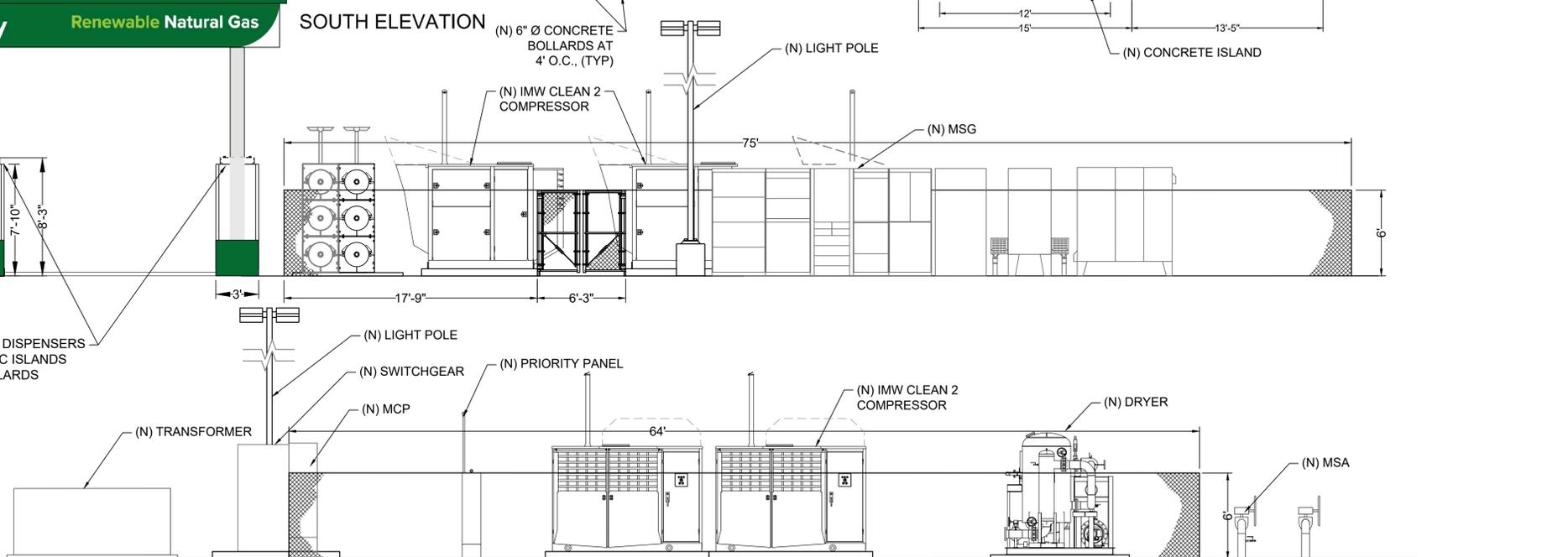
CANOPY COLOR CHART	BOLLARD COLOR CHART
PANTONE 3500 C 	PANTONE 3500 C 
PANTONE 630 C 	
PANTONE 2300 C 	

**NOTES**

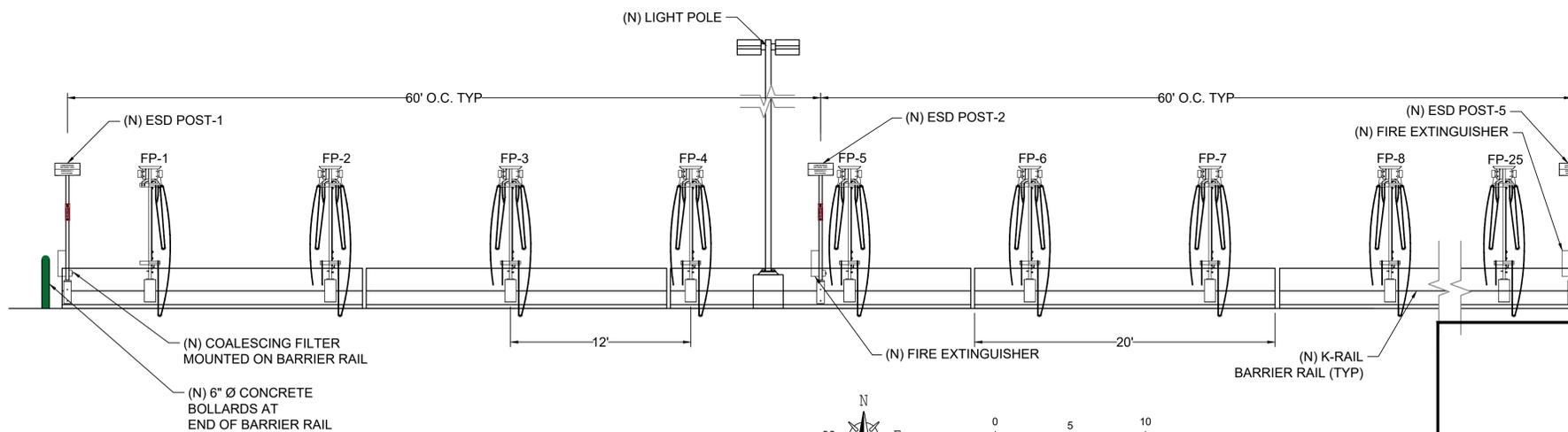
1. COLOR IS TO MATCH PANTONE COLOR SYSTEM OR EQUIVALENT 1101 HIGH GLOSS LACQUER ENAMEL OR EQUIVALENT.



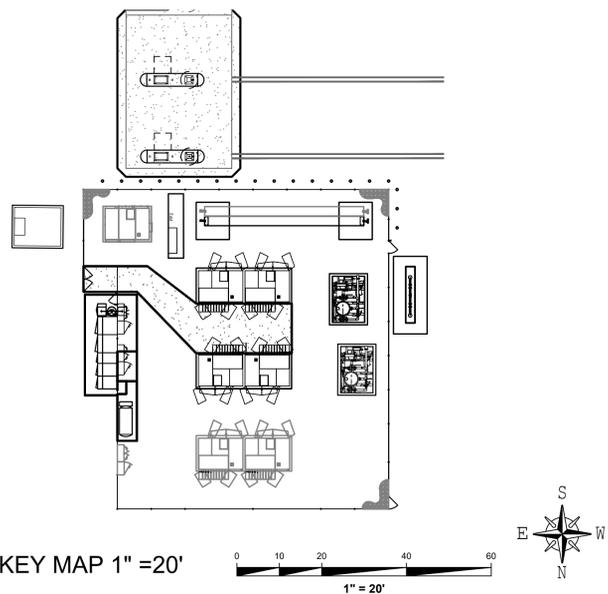
EAST ELEVATION



NORTH ELEVATION



TIME FILL STATION ELEVATIONS (1" = 5')



KEY MAP 1" = 20'

REV	DATE	REVISIONS
0	2/4/2022	30% REVIEW SET - NOT FOR CONSTRUCTION
1		
2		
3		

**DIG AHEAD** 

Know what's below. CALL 811 before you dig.  
REDUCED PLAN  
CAUTION: THE DRAWING SHALL BE REDUCED  
0 1 2 3  
24" ORIGINAL DRAWING

**Clean Energy**

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TEL: (618) 437-1100 | FAX: (618) 724-1317 | WWW.CLEANENERGYFUELS.COM

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**CNG FUELING STATION  
MDW ROMEOVILLE, IL  
SOUTH CREEK PARKWAY  
ROMEOVILLE, IL  
GENERAL ARRANGEMENT & ELEVATIONS FASTFILL**

ASSET NO: 210721.00

DATE	DRAWN BY:	PB
2/4/2022	CHECKED BY:	ML
SCALE	AS NOTED	
SHEET	G1.0	

2/7/2022 2:23:37 PM