

- NOTES:
- ALL PAVEMENT SPOT GRADE ELEVATIONS AND STRUCTURE RIM ELEVATIONS WITHIN OR ALONG CURB, CURB AND GUTTER, OR COMBINED SIDEWALK/CURB REFER TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED. SEE TYPICAL DETAILS FOR PROPOSED TOP OF CURB OR SIDEWALK ELEVATION RELATIVE TO PROPOSED PAVEMENT ELEVATION.
 - ALL ELEVATIONS SHOWN DEPICT FINISHED GRADE UNLESS OTHERWISE NOTED. SUBTRACT TOPSOIL THICKNESS OR PAVEMENT SECTION THICKNESS TO ESTABLISH REQUIRED SUBGRADE ELEVATIONS.
 - ALL PROPOSED GRADES SHALL MATCH EXISTING GRADES AT PROPERTY LINES, EDGE OF PAVEMENT, CURB, OR SIDEWALKS.
 - ALL NON-PAVED AREAS TO BE RE-SPREAD WITH 6" TOPSOIL AND STABILIZED WITH PERMANENT VEGETATIVE COVER, (SEEDED OR SOO).
 - ADA ACCESSIBLE PARKING STALLS SHALL NOT EXCEED A 2.0% SLOPE IN ANY DIRECTION AND ALL ADA ACCESSIBLE ROUTES SHALL NOT EXCEED A 2% CROSS SLOPE AND 5% LONGITUDINAL SLOPE.
 - TRANSITION FOR DEPRESSED CURB TO FULL HEIGHT CURB ADJACENT TO ACCESSIBLE RAMPS SHALL BE TAPERED AT MAXIMUM OF 1:12H, TAPERS AT ALL OTHER LOCATIONS (OVERFLOW DEPRESSIONS, CURB TERMINUS, ETC.) SHALL BE AT 1%:12H.

DETENTION SUMMARY:
 DESIGN ON FOR COMMERCIAL PER STORMWATER MANAGEMENT PLAN FOR LAKEWOOD FALLS 7C, DATED 2/1/2002: 96
 PROPOSED CN: 93.7
 SINCE THE PROPOSED CN IS LESS THAN THE DESIGN CN FOR THE ORIGINAL DETENTION BASIN DESIGN, NO ADDITIONAL STORMWATER DETENTION IS NECESSARY.

LEGEND

TF	TOP OF FOUNDATION	△	100 YEAR FLOOD ROUTE
FF	FINISHED FLOOR	→	FLOW DIRECTION
TC	TOP OF CURB	⊕	EXISTING GRADE ELEVATION
DC	TOP OF DEPRESSED CURB	⊕	PROPOSED GRADE ELEVATION
GF	GARAGE FLOOR	⊕	PROPOSED CONTOUR LINE
EP	EDGE OF PAVEMENT	—	EXISTING CONTOUR LINE
TW	TOP OF SIDEWALK		
R	STRUCTURE RIM		
GR	FIRE HYDRANT GRADE RING		
I	INVERT		
FG	FINISHED GRADE		

NO.	DATE	REVISION
1	03.05.26	INITIAL SUBMITTAL PER VILLAGE
2	04.20.26	

RENWICK ROAD PLAZA
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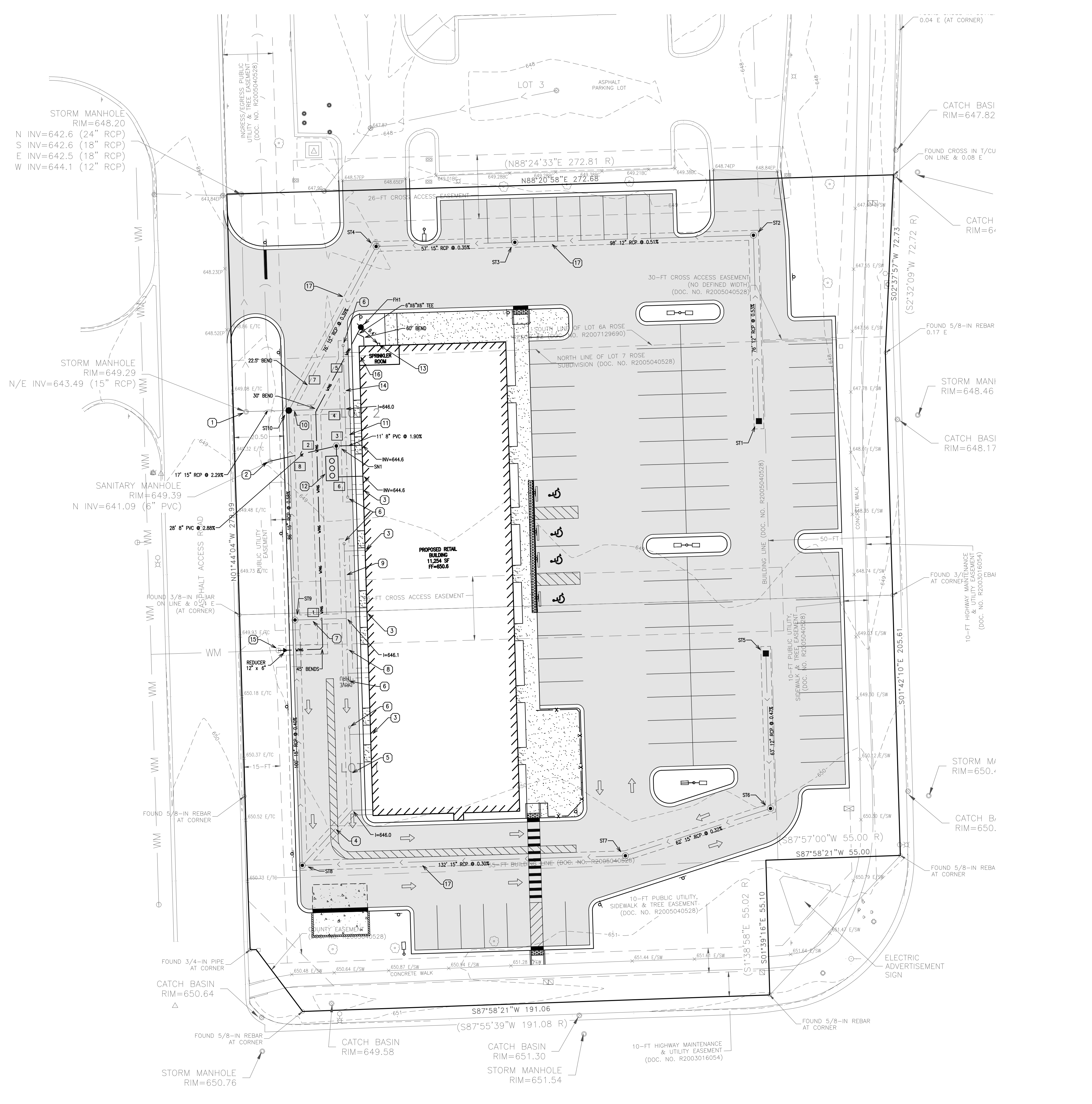
1207 CEDARWOOD DRIVE
 CREST HILL, ILLINOIS 60403
 815/730-1010

PROJECT NO. 21999
 DATE: 03.05.26
 DRAWN BY: TC
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GRADING PLAN

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 Date: 03/05/26 11:25 AM, Layout: UTILITY PLAN



- NOTES:**
- EXISTING UTILITIES HAVE BEEN SHOWN SCHEMATICALLY FOR REFERENCE BASED ON BEST AVAILABLE DATA. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UTILITIES THAT MAY BE AFFECTED PRIOR TO BEGINNING CONSTRUCTION.
 - ALL UTILITY LENGTHS ARE TO CENTER OF STRUCTURE.
 - ALL EXISTING AND PROPOSED UTILITY RIMS, GRADE RINGS, PEDESTALS, ETC. SHALL BE ADJUSTED AS REQUIRED TO MEET PROPOSED GRADES.
 - SELECT GRANULAR TRENCH BACKFILL MATERIAL SHALL BE PROVIDED FOR ALL TRENCHES LOCATED WITHIN FIVE FEET OF PAVEMENT, CURB, DRIVEWAYS, AND SIDEWALKS.
 - LOWER WATERMAIN TO ELEVATION SHOWN TO MAINTAIN 18" MINIMUM VERTICAL SEPARATION BETWEEN UTILITIES REFERENCED. PROVIDE WATER MAIN PROTECTION TO 10 FEET ON EACH SIDE OF CROSSING. SEE SPECIFICATION SHEET FOR DETAILS.
 - ALL WATER MAIN SHALL BE 5'-6" BELOW FINISHED GRADE TO TOP OF MAIN UNLESS OTHERWISE NOTED.
 - RIM ELEVATIONS PROVIDED FOR STORM STRUCTURES LOCATED IN CURB AND GUTTER ARE EDGE OF PAVEMENT ELEVATIONS.
 - LIGHT POLES LOCATIONS SHOWN FOR REFERENCE. DESIGN OF POWER SYSTEM TO SERVE PROPOSED POLES SHALL BE BY OTHERS. REFER TO PHOTO-METRIC PLAN AND SITE ELECTRICAL PLAN (BOTH BY OTHERS) FOR DETAILS.
 - UNLESS OTHERWISE NOTED, PIPE MATERIAL SHALL BE AS FOLLOWS (SEE SPECIFICATION SHEET FOR ADDITIONAL DETAILS):
 WATER: DUCTILE IRON, CLASS 52 (AWWA C-151), RUBBER-GASKET JOINTS (AWWA C-111) OR PVC (AWWA C900), CLASS 235 PRESSURE PIPE, SDR18, PUSH-ON JOINTS (ASTM F-477)
 SANITARY: PVC SDR 26 (ASTM D3034) WITH ELASTOMERIC GASKET JOINTS (ASTM D3212)
 STORM: RCP ASTM C76, CLASS IV, 70"-RING GASKET JOINTS (ASTM C443)
 DOWNSPOUTS COLLECTION: PVC SDR 26 (ASTM D3034), ELASTOMERIC GASKET JOINTS (ASTM D3212)
 FES: PRECAST CONCRETE STRUCTURE WITH GRATE
 - CONTRACTOR SHALL VERIFY LOCATIONS, SIZES, AND ELEVATIONS OF ALL BUILDING SERVICE LOCATIONS WITH ARCHITECTURAL PLANS. CONTRACTOR SHALL COORDINATE WITH BUILDING PLUMBING CONTRACTOR REGARDING EXTENSION OF WATER SERVICE INTO MECHANICAL ROOM AS WELL AS REQUIRED TESTING.
 - IF SHOWN, ROUTING OF GAS, ELECTRIC, AND TELEPHONE SERVICES ARE APPROXIMATE AND SUBJECT TO CHANGE BY RESPECTIVE UTILITY COMPANIES AND OWNER. CONTRACTOR OR OWNER SHALL COORDINATE WITH EACH UTILITY COMPANY REGARDING FINAL LOCATIONS AND LOCATION OF EXISTING UTILITIES FOR CONNECTION.

- CONSTRUCTION NOTES:**
- CONNECT TO EXISTING STORM MANHOLE WITH CORE AND BOOT. PROPOSED INV.=643.5.
 - CONNECT TO EXISTING SANITARY MANHOLE WITH CORE AND BOOT. PROPOSED INV.=641.7.
 - 6" PVC OR HDPE CONNECTION FOR DOWNSPOUTS. SLOPES VARY (TYPICAL FOR EACH DOWNSPOUT).
 - 12" PVC OR HDPE COLLECTION PIPE FOR DOWNSPOUTS @ 4.29%.
 - 12" PVC OR HDPE COLLECTION PIPE FOR DOWNSPOUTS @ 1.18%.
 - CLEANOUT. RIM=649.9.
 - 12" PVC OR HDPE COLLECTION PIPE FOR DOWNSPOUTS @ 8.10%.
 - 12" PVC OR HDPE COLLECTION PIPE FOR DOWNSPOUTS @ 1.23%.
 - 12" PVC OR HDPE COLLECTION PIPE FOR DOWNSPOUTS @ 1.00%.
 - 12" PVC OR HDPE COLLECTION PIPE FOR DOWNSPOUTS @ 9.13%.
 - 12" PVC OR HDPE COLLECTION PIPE FOR DOWNSPOUTS @ 1.11%.
 - APPROXIMATE LOCATION OF GREASE TRAP/TRIPLE BASIN. SEE PLUMBING PLANS FOR DETAILS. PROVIDE 6" SANITARY STUB TO BUILDING AND CONNECT TO PROPOSED SANITARY MANHOLE. INV.=644.5. INV. OUT.=643.0. RIM=649.7. ADJUST RIMS AS NECESSARY TO MEET PAVEMENT SLOPE.
 - FIRE DEPARTMENT CONNECTION, SEE ARCHITECTURAL PLANS FOR DETAILS.
 - 12" PVC OR HDPE COLLECTION PIPE FOR DOWNSPOUTS @ 1.54%.
 - PROVIDE CONNECTION TO EXISTING 12" WATER STUB.
 - PROPOSED 6" WATER MAIN, SEE PLUMBING PLAN FOR EXTENSION INTO MECHANICAL ROOM. SITE CONTRACTOR AND BUILDING CONTRACTOR TO COORDINATE EXTENSION OF 6" DRINK AND TESTING REQUIRED. DOMESTIC AND FIRE LINES TO BE SPLIT IN THE MECHANICAL ROOM AND A "XBOX" (SERIES 3200 OR 4400) WITH ENTRANCE KEY TO BE PROVIDED ON THE EXTERIOR OF THE BUILDING TO ALLOW ACCESS TO THE MECHANICAL ROOM.
 - PROVIDE COMPACTED GRANULAR TRENCH BACKFILL WITHIN 2' OF PAVEMENT OR CURB, SEE NOTE 4 (TYPICAL).

- CONFLICT TABLE:**
- | | | |
|-------------------------------|-------------------------------|-------------------------------|
| 1. B/STM=645.3
T/W=643.3* | 4. B/STM=645.3
T/W=643.3* | 7. B/STM=643.9
T/W=641.9* |
| 2. B/SAN=642.3
T/W=644.3* | 5. B/STM=646.2
T/W=644.4* | 8. B/STM=644.0
T/SAN=642.6 |
| 3. B/STM=646.2
T/SAN=645.2 | 6. B/STM=646.3
T/SAN=645.0 | |
- * - INDICATES WM TO BE LOWER, SEE NOTE 5

WATER STRUCTURE TABLE

NUMBER	ELEVATION
FH1	650.30

SANITARY STRUCTURE TABLE

NUMBER	RIM	INVERT(N)	INVERT(OUT)
SN1*	649.80	644.40(E)	642.50(W)

* 5" SANITARY MANHOLE

STORM STRUCTURE TABLE

NUMBER	SIZE	RIM	INVERT(N)	INVERT(OUT)
ST1	2'IN	648.00		645.30(N)
ST2	4'WH	648.10	644.90(S)	644.90(W)
ST3	4'WH	647.90	644.40(E)	644.40(N)
ST4	4'WH	648.00	644.20(E)	644.20(S)
ST5	2'IN	648.20		645.70(S)
ST6	4'WH	648.60	645.40(N)	645.40(W)
ST7	4'WH	648.80	645.20(E)	645.20(W)
ST8	4'WH	648.80	644.80(E)	644.80(N)
ST9	4'WH	648.80	644.40(S)	644.40(N)
ST10	4'WH	648.80	643.90(S)	643.90(W)

- STRUCTURE/PIPE LEGEND:**
- IN - INLET
 - CB - CATCH BASIN
 - MH - STORM MANHOLE (TYPE A)
 - FES - FLARED END SECTION WITH GRATE
 - TD - TRENCH DRAW
 - VV - VALVE VAULT
 - VB - VALVE BOX
 - FH - FIRE HYDRANT ASSEMBLY
 - PC - PRESSURE CONNECTION
 - SN - SANITARY MANHOLE
 - ST - STORM STRUCTURE
 - RCP - REINFORCED CONCRETE PIPE
 - PVC - POLYVINYL CHLORIDE PIPE
 - HDPE - HIGH DENSITY POLYETHYLENE PIPE

FRAME AND GRATE/LID LEGEND:
 CONTRACTOR SHALL VERIFY MANUFACTURER & MODEL NUMBERS WITH PERMITTING ENTITY. EQUIVALENT CASTINGS MAY BE SUBSTITUTED FOR EXISTING MODELS WITH APPROVAL OF THE PERMITTING ENTITY. ALL LIDS SHALL BE EMBOSSED WITH "STORM", "WATER", OR "SANITARY" AS APPLICABLE AND THE NAME OF THE MUNICIPALITY.

STORM:
 UNPAVED AREAS/PARKING AREAS: E1W 1020, TY. M2 GRATE
 ROLLED CURB & GUTTER: E1W 7525
 DEPRESSED CURB & GUTTER: E1W 7210, TY. M1 GRATE & T1 BACK
 E1W 7210, TY. M3 GRATE

SANITARY: E1W 1020 TY. A SOLID COVER
WATER: E1W 1020 TY. A SOLID COVER

NO. DATE REVISION
 1 03/05/26 INITIAL SUBMITTAL PER VILLAGE

RENICK ROAD PLAZA
 788-800 S. WEBER RD.
 ROMEVILLE, WILL COUNTY, IL
 UTILITY PLAN

GEOTECH INC.
 CONSULTING ENGINEERS - LAND SURVEYORS
 1207 CEDARWOOD DRIVE CREST HILL, ILLINOIS 60403 815/730-1010

PROJECT NO. 21999
 DATE: 03.05.26
 DRAWN BY: TC
 CHECKED BY: CP

SHEET NO.
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NOTES:

THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF NPDES LRII CONSTRUCTION GENERAL PERMIT ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FOR STORMWATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES.

1. SITE DECLARATION

THE FOLLOWING IS A DESCRIPTION OF THE CONSTRUCTION ACTIVITY THAT IS THE SUBJECT OF THIS PLAN

A. THE CONSTRUCTION SITE ACTIVITIES FOR THE SITE IMPROVEMENTS WILL INCLUDE, AS NECESSARY: TOPSOIL EXCAVATION AND STOCKPILING, EARTH EXCAVATION AND THE PLACEMENT OF EMBANKMENT MATERIAL, INSTALLATION OF WATER AND SEWER UTILITIES, STORM SEWERS, AND OTHER MUNICIPAL INFRASTRUCTURE, SUCH AS TELECOMMUNICATIONS, GAS AND ELECTRIC SERVICES, CURBS AND CURB CUTS, AND OTHER ACTIVITIES THAT MAY BE NECESSARY TO PROTECT ADJACENT AND DOWNSTREAM WATER COURSES FROM DAMAGE.

B. THE EXPECTED SEQUENCE OF ACTIVITIES THAT WILL CAUSE SIGNIFICANT DISTURBANCE AND DISRUPTION ARE AS FOLLOWS: SITE CLEARING, TOPSOIL EXCAVATION AND STOCKPILING, EARTH EXCAVATION AND RESTORATION OF DISTURBED AREAS, PRIOR TO THE COMMENCEMENT OF ANY SITE DISTURBANCE ACTIVITY, SILT FENCE, CONSTRUCTION ENTRANCE AND ANY REQUIRED DOWN-SLOPE PROTECTION MUST BE INSTALLED, AS NOTED ON THE PLANS, AS CONSTRUCTION ACTIVITY PROGRESSES.

C. THE ESTIMATED STORMWATER RUNOFF COEFFICIENT ARE CONTAINED IN THE PROJECT DESIGN NARRATIVE ON FILE WITH THE LOCAL AGENCIES. THE ESTIMATED STORMWATER RUNOFF COEFFICIENT FOR THE MANAGEMENT OF STORMWATER RUNOFF ARE CONTAINED IN THE PROJECT DESIGN NARRATIVE, WHICH IS INCORPORATED BY REFERENCE AND MADE A PART OF THIS PLAN.

D. SITE DESCRIPTION

SITE AREA = 1.97 ACRES
DISTURBED WITH PERMANENT SOILS ACHIEVED WITH PERMANENT SOILS
RECEIVING WATERS = LILY CACHE CREEK
WETLAND COVERAGE = 0.0 ACRES
POST CONSTRUCTION RUNOFF COEFFICIENT = 0.76
SOILS = ASHKUM SILTY CLAY LOAM, ELLIOTT SILT LOAM, SYMERTON SILT LOAM

E. PLEASE REFER TO EROSION CONTROL PLAN FOR A MAP INDICATING DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED BEFORE AND AFTER MAJOR GRADING ACTIVITIES. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AND CONTROLS FOR EROSION AND SEDIMENT CONTROL, CURRENT EDITIONS OF THE EROSION CONTROL PLAN, THE LOCATION OF MAJOR STRUCTURAL AND NON-STRUCTURAL CONTROLS IDENTIFIED IN THE PLAN, THE LOCATIONS OF AREAS WHERE STERILIZATION PROCEDURES ARE EXPECTED TO OCCUR, SURFACE WATERS (INCLUDING WETLANDS), AND LOCATIONS WHERE STORM WATER IS DISCHARGED TO A SURFACE WATER.

2. CONTROLS

THE PLAN ADDRESSES VARIOUS CONTROLS THAT MUST BE IMPLEMENTED FOR EACH OF THE MAJOR CONSTRUCTION ACTIVITIES DESCRIBED ABOVE. FOR EACH OF THE CONTROL DEVICES BELOW, THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR ITS IMPLEMENTATION. EACH CONTRACTOR HAS SIGNED THIS PLAN ACKNOWLEDGING RESPONSIBILITY FOR THE IMPLEMENTATION AND ONGOING MAINTENANCE OF THIS PLAN.

A. SOIL EROSION AND SEDIMENT CONTROLS:

1. STABILIZATION PRACTICES: EXISTING VEGETATION SHOULD BE PRESERVED AS LONG AS POSSIBLE. DISTURBED AREAS SHOULD BE STABILIZED AS SOON AS POSSIBLE AFTER MAJOR GRADING OR EARTHWORK ACTIVITIES OCCUR. WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE, AND WHEN STABILIZATION MEASURES ARE INITIATED, SHALL BE MAINTAINED AND INCORPORATED INTO THE PLAN. STABILIZATION OF DISTURBED AREAS MUST BE INITIATED WITHIN 1 WORKING DAY OF PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE BUT NOT LATER THAN 14 DAYS FROM THE INITIATION OF STABILIZATION WORK IN THE AREA. WHERE THE INITIATION OF STABILIZATION MEASURES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE ON AREAS WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED AND WILL RESUME IN 14 DAYS. A TEMPORARY STABILIZATION METHOD CAN BE USED. STABILIZATION IS NOT REQUIRED FOR EXIT POINTS AT LINEAR UTILITY CONSTRUCTION SITES THAT ARE ONLY EPISODICALLY AND FOR VERY SHORT DURATIONS OVER THE LIFE OF THE PROJECT. PROVIDED OTHER EXIT POINT CONTROLS ARE IMPLEMENTED TO MINIMIZE SEDIMENT TRACK-OUT.

THE FOLLOWING INTERIM AND PERMANENT STABILIZATION PRACTICES, AS A MINIMUM, SHALL BE EMPLOYED TO STABILIZE DISTURBED AREAS: TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, GEOTEXTILES, SOIL STABILIZATION, VEGETATIVE BUFFER STRIPS, PROTECTION OF TREES, PRESERVATION OF MATURE VEGETATION, STABILIZED CONSTRUCTION ENTRANCES, AND BARRIER FILTERS.

2. STRUCTURAL PRACTICES: THE FOLLOWING STRUCTURAL PRACTICES SHALL BE IMPLEMENTED TO THE EXTENT POSSIBLE TO DIVERT FLOWS FROM EXPOSED SOILS, STORE FLOWS OR OTHERS, LIMIT RUNOFF AND THE DISCHARGE OF POLLUTANTS FROM THE EXPOSED: STORM SEWER, STORM WATER CONVEYANCE CHANNELS AND PERMANENT SEEDING.

B. STORM WATER MANAGEMENT

1. THE FOLLOWING MEASURES WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER DISCHARGE THAT MAY OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED. THE INSTALLATION OF SOME OF THESE DEVICES MAY BE SUBJECT TO THE PROVISIONS OF SECTION 404 OF THE CLEAN WATER ACT. THE PRACTICES BEING IMPLEMENTED BY THIS PLAN WERE SELECTED ON THE BASIS OF THE TECHNICAL GUIDANCE CONTAINED IN THE EPA'S STANDARD SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AS WELL AS OTHER DOCUMENTS AND ORDINANCES LISTED IN THE SPECIFICATIONS.

THE STORM WATER POLLUTANTS CONTROL MEASURES INCLUDE: SILT FILTER FENCE, BARRIER FILTERS, AND STORM WATER MANAGEMENT FACILITIES. THE FOLLOWING MEASURES WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER DISCHARGE THAT MAY OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED. THE INSTALLATION OF SOME OF THESE DEVICES MAY BE SUBJECT TO THE PROVISIONS OF SECTION 404 OF THE CLEAN WATER ACT. THE PRACTICES BEING IMPLEMENTED BY THIS PLAN WERE SELECTED ON THE BASIS OF THE TECHNICAL GUIDANCE CONTAINED IN THE EPA'S STANDARD SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AS WELL AS OTHER DOCUMENTS AND ORDINANCES LISTED IN THE SPECIFICATIONS.

2. VELOCITY DISSIPATION DEVICES SHALL BE PLACED AT DISCHARGE LOCATIONS AND ALONG THE LENGTH OF ANY OUTFALL CHANNELS, AS NECESSARY, TO ASSURE A NON-EROSIVE VELOCITY FLOW FROM ANY STRUCTURE TO A WATERCOURSE SO THAT THE NATURAL, PHYSICAL, AND BIOLOGICAL CHARACTERISTICS AND FUNCTIONS OF THE WATERCOURSE ARE MAINTAINED AND PROTECTED.

3. STORM WATER MANAGEMENT CONTROL INCLUDES: RIP-RAP FOR OUTLET PROTECTION AND DITCH/CHANNEL CHECK SYSTEMS.

C. OTHER CONTROLS

1. WASTE MANAGEMENT: NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT. ALL WASTE MATERIALS SHOULD BE COLLECTED AND STORED IN APPROVED RECEPTACLES. NO WASTES SHOULD BE PLACED IN ANY LOCATION OTHER THAN IN THE APPROVED CONTAINERS APPROPRIATE FOR THE MATERIALS BEING DISCHARGED. THERE SHOULD BE NO LIQUID WASTES DEPOSITED INTO DUMPSTERS OR OTHER CONTAINERS WHICH MAY LEAK. RECEPTACLES WITH DEFICIENCIES SHOULD BE REPAIRED AND THE APPROPRIATE CLEAN-UP PROCEDURE SHOULD BE FOLLOWED. WASTE DISPOSAL SHOULD COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS ON-SITE HAZARDOUS WASTE DISPOSAL SHOULD BE MINIMIZED AND STORED IN LABELED, SEPARATE RECEPTACLES FROM NON-HAZARDOUS WASTE. ALL HAZARDOUS WASTE SHOULD BE STORED AND DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE, AND FEDERAL REGULATION.

2. CONCRETE WASTE MANAGEMENT: CONCRETE WASTE OR WASHOUT SHOULD NOT BE ALLOWED IN THE STREET OR ALLOWED TO REACH A STORM WATER DRAINAGE SYSTEM OR WATERCOURSE. A SIGN SHOULD BE POSTED AT EACH LOCATION TO IDENTIFY THE WASHOUT. TO THE EXTENT PRACTICABLE CONCRETE WASHOUT AREAS SHOULD BE LOCATED A REASONABLE DISTANCE FROM A STORM WATER DRAINAGE INLET OR WATERCOURSE. CONCRETE WASHOUT AREAS SHOULD BE LOCATED AT LEAST 5 FEET BEHIND THE CURB IF THE WASHOUT AREA IS ADJACENT TO A PAVED ROAD. A STABILIZED ENTRANCE THAT MEETS ILLINOIS MANUAL STANDARDS SHOULD BE INSTALLED AT EACH WASHOUT AREA.

THE CONTAINMENT FACILITIES SHOULD BE OF SIGNIFICANT VOLUME TO COMPLETELY CONTAIN ALL LIQUID AND CONCRETE WASTE MATERIALS INCLUDING ENOUGH CAPACITY FOR ANTICIPATED LEVELS OF RAIN WATER. THE DRIED CONCRETE WASTE MATERIAL SHOULD BE PICKED UP AND DISPOSED OF PROPERLY WHEN AT 75% CAPACITY HARDENED CONCRETE CAN BE PROPERLY RECYCLED AS APPROVED BY THE MUNICIPALITY AND USED AGAIN ON-SITE OR HAULED TO AN APPROPRIATE LANDFILL.

3. DEWATERING OPERATIONS

DURING DEWATERING/PUMPING OPERATIONS, ONLY UNCONTAMINATED WATER SHOULD BE ALLOWED TO DISCHARGE TO PROTECTED NATURAL AREAS, WATERS OF THE STATE, OR TO A STORM SEWER SYSTEM (IN ACCORDANCE WITH LOCAL PERMITS). DISCHARGES SHALL BE TREATED TO MINIMIZE DISCHARGE OF POLLUTANTS. INLET HOSES SHOULD BE PLACED IN A STABILIZED SUMP PIT OR FLOATED AT THE SURFACE OF THE WATER IN ORDER TO LIMIT THE AMOUNT OF SEDIMENT INTAKE. DISCHARGE OF VISIBLE SOLIDS OR FOAMS IS NOT PERMITTED. PUMPING OPERATIONS SHOULD BE DISCHARGED TO A STABILIZED AREA THAT CONSISTS OF AN ENERGY DISSIPATING DEVICE (I.E. STONE, SEDIMENT FILTER BAG, OR BOTH). WHEN NECESSARY, STABILIZED CONVEYANCE CHANNELS SHOULD BE INSTALLED TO DIRECT WATER TO THE DESIRED LOCATION. ADDITIONAL BMP'S MAY BE REQUIRED AT THE OUTLET AREA AS REQUESTED BY THE MUNICIPALITY, OR OTHER REVIEWING AGENCY.

4. DUST CONTROL

DUST SHALL BE MINIMIZED ON AREAS OF EXPOSED SOILS THROUGH THE APPROPRIATE APPLICATION OF WATER OR OTHER DUST SUPPRESSION TECHNIQUES AS LISTED BELOW:
- SPRINKLING/IRRIGATION - VEGETATIVE COVER
- MULCHING - WATER TREATMENTS
- TILLAGE - STONE
- WATER TRUCK

5. OFF-SITE VEHICLE TRACKING

STABILIZED CONSTRUCTION ENTRANCE(S) SHOULD BE INSTALLED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. TO REDUCE EXCESS SEDIMENT, DIRT OR STONE TRACED FROM THE SITE, TRACKED OFFSITE ON ADJACENT ROADWAYS SHALL BE CLEANED BY THE END OF THE SAME BUSINESS DAY IN WHICH THE TRACK-OUT OCCURS OR BY THE END OF THE NEXT BUSINESS DAY IF TRACK-OUT OCCURS ON A NON-BUSINESS DAY. ACCUMULATED SEDIMENT AND STONE SHOULD BE REMOVED FROM THE STABILIZED ENTRANCE AS NEEDED. VEHICLES HAULING ERODIBLE MATERIAL TO AND FROM THE CONSTRUCTION SITE SHOULD BE COVERED WITH A TARP. HOUSING OR SWEEPING SEDIMENT INTO THE STORMWATER SYSTEM OR WATERS OF THE U.S. IS NOT PERMITTED.

6. CONCRETE CUTTING

CONCRETE WASTE MANAGEMENT SHOULD BE IMPLEMENTED TO CONTAIN AND DISPOSE OF SAW-CUTTING AREAS SURFACES. CONCRETE CUTTING SHOULD NOT TAKE PLACE DURING OR IMMEDIATELY AFTER A RAINFALL EVENT. WASTE GENERATED FROM CONCRETE CUTTING SHOULD BE CLEANED-UP AND DISPOSED INTO THE CONCRETE WASHOUT FACILITY AS DESCRIBED ABOVE.

7. SANITARY STATIONS

TO THE EXTENT PRACTICABLE, PORT-A-POTTIES SHOULD BE LOCATED AT A MINIMUM 6 FEET BEHIND THE CURB AND GUTTER OF THE INTERNAL ROADS AND BE LOCATED IN AN AREA THAT DOES NOT DRAIN TO ANY PROTECTED NATURAL AREAS, WATERS OF THE STATE, OR STORM WATER STRUCTURES AND SHOULD BE ANCHORED TO THE GROUND TO PREVENT TIPPING OVER. PORT-A-POTTIES LOCATED ON IMPERVIOUS SURFACES SHOULD BE PLACED ON TOP OF A SECONDARY CONTAINMENT DEVICE, OR BE SURROUNDED BY A CONTROL DEVICE (I.E. GRAVEL-BAG BERM).

8. SPILL PREVENTION

DISCHARGES OF A HAZARDOUS SUBSTANCE OR OIL CAUSED BY A SPILL (E.G. A SPILL OF OIL) ARE NOT AUTHORIZED BY THIS PERMIT. IF A SPILL OCCURS, NOTIFY THE OWNER IMMEDIATELY. THE CONSTRUCTION SITE SHOULD HAVE THE CAPACITY OF CONTROL, CONTAIN, AND REMOVE SPILLS IF THEY OCCUR. SPILLS SHOULD BE CLEANED IMMEDIATELY AFTER DISCOVERY IN ACCORDANCE WITH MSDS AND NOT BURIED ON SITE OR WASHED INTO STORM DRAINS OR WATERS OF THE STATE.

SPILLS IN EXCESS OF FEDERAL REPORTABLE QUANTITIES (40 CFR PARTS 110, 117, OR 302) SHALL BE REPORTED TO THE NATIONAL RESPONSE CENTER BY CALLING 800-424-8802. SPILLS OF TOXIC OR HAZARDOUS MATERIALS SHALL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY REGARDLESS OF SIZE. WHEN CLEANING UP THE SPILL, THE AREA SHALL BE KEPT WELL VENTILATED AND APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT SHOULD BE USED TO MINIMIZE INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

9. TOXIC AND HAZARDOUS MATERIAL

ON-SITE HAZARDOUS MATERIAL STORAGE SHOULD BE MINIMIZED AND STORED IN LABELED, SEPARATE, RECEPTACLES FROM NON-HAZARDOUS WASTE. ALL HAZARDOUS MATERIAL SHOULD BE STORED AND DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE, AND FEDERAL REGULATION OR BY THE MANUFACTURER.

D. APPROVED STATE OR LOCAL PLANS

THE MANAGEMENT PRACTICES, CONTROLS, AND OTHER PROVISIONS CONTAINED IN THIS PLAN ARE AT LEAST AS PROTECTIVE AS THE REQUIREMENTS CONTAINED IN THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. CURRENT EDITIONS OF THE EROSION CONTROL PLAN, AND ANY GOVERNING LOCAL ORDINANCES, REQUIREMENTS SPECIFIED IN SEDIMENT AND EROSION CONTROL SITE PLANS, SITE PERMITS, STORM WATER MANAGEMENT SITE PLANS OR SITE PERMITS APPROVED BY LOCAL OFFICIALS THAT ARE APPLICABLE TO PROTECTING SURFACE WATER RESOURCES ARE, UPON SUBMITTAL OF AN NO TO BE AUTHORIZED TO DISCHARGE UNDER THIS PERMIT, INCORPORATED BY REFERENCE AND ARE ENFORCEABLE UNDER THIS PERMIT EVEN IF THEY ARE NOT SPECIFICALLY INCLUDED IN THE PLAN.

E. POLLUTION PREVENTION

1. VEHICLE STORAGE AND MAINTENANCE

WHEN NOT IN USE, VEHICLES UTILIZED IN THE DEVELOPMENT OF THE SITE SHOULD BE STORED IN A DESIGNATED OFF-SITE AREA AWAY FROM THE DESIGNATED WATERCOURSE. ROAD, DRAINAGE, OR WASH-WAY OR STORM DRAIN, WHENEVER POSSIBLE VEHICLE MAINTENANCE, FUELING, AND WASHING SHOULD OCCUR OFF-SITE. IF ALLOWED ON-SITE, VEHICLE MAINTENANCE (INCLUDING BOTH ROUTINE MAINTENANCE AS WELL AS ON-SITE REPAIRS) SHOULD BE MADE WITHIN THE DESIGNATED OFF-SITE STORAGE AREA. STORAGE OF MECHANICAL FLUIDS (OIL, ANTIFREEZE, ETC.) INTO WATERCOURSES, WETLANDS, OR STORM DRAINS, DRIP PANS OR ABSORBENT PADS SHOULD BE USED FOR ALL VEHICLE AND EQUIPMENT MAINTENANCE ACTIVITIES THAT INVOLVE GREASE, OIL, SOLVENTS, OR OTHER VEHICLE FLUIDS. CONSTRUCTION VEHICLES SHOULD BE INSPECTED FREQUENTLY TO IDENTIFY ANY LEAKS; LEAKS SHOULD BE REPAIRED IMMEDIATELY OR THE VEHICLE SHOULD BE REMOVED FROM SITE. DISPOSE OF ALL USED OIL, ANTIFREEZE, SOLVENTS AND OTHER AUTOMOTIVE-RELATED CHEMICALS ACCORDING TO MANUFACTURER OR MSDS INSTRUCTIONS. CONTRACTORS SHOULD IMMEDIATELY REPORT SPILLS TO THE OWNER FOR PROPER REMEDIATION.

WASH WATERS, FROM EQUIPMENT OR VEHICLE WASHING, WHEEL WASH WATER AND OTHER WASH WATERS, MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.

2. MATERIAL STORAGE

MATERIALS AND/OR CONTAMINANTS SHOULD BE STORED IN A MANNER THAT MINIMIZES THE POTENTIAL TO DISCHARGE INTO STORM DRAINS OR WATERCOURSES. ALL MATERIALS SHOULD BE DESIGNATED FOR MATERIAL DELIVERY AND STORAGE. ALL MATERIALS KEPT ON-SITE SHOULD BE STORED IN THEIR ORIGINAL CONTAINERS WITH LEGIBLE LABELS, AND IF POSSIBLE UNDER A ROOF OR OTHER ENCLOSURE. LABELS SHOULD BE REPLACED IF DAMAGED OR DIFFICULT TO READ. BERMED-OFF STORAGE AREAS ARE AN ACCEPTABLE CONTROL MEASURE TO PREVENT CONTAMINATION OF STORM WATER, AVAILABLE FOR REFERENCING CLEAN UP PROCEDURES. ANY RELEASE OF CHEMICALS OR CONTAMINANTS SHOULD BE IMMEDIATELY CLEANED UP AND DISPOSED OF PROPERLY. CONTRACTORS SHOULD IMMEDIATELY REPORT ALL SPILLS TO THE OWNER, WHO SHOULD NOTIFY THE APPROPRIATE AGENCIES, IF NEEDED.

TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS ON-SITE, HAZARDOUS PRODUCTS SHOULD BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RE-SEALABLE. ORIGINAL LABELS AND MSDS DATA SHOULD BE RETAINED ON-SITE AT ALL TIMES. HAZARDOUS MATERIALS SHOULD BE STORED IN COVERED OR DESIGNATED CONTAINMENT AREAS IN ACCORDANCE WITH MANUFACTURER OR MSDS SPECIFICATIONS, WHEN DISPOSING OF HAZARDOUS MATERIALS. FOLLOW MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS.

3. THE EXPOSURE OF FUEL, OIL, HYDRAULIC FLUIDS, OTHER PETROLEUM PRODUCTS, AND OTHER CHEMICALS SHALL BE MINIMIZED BY STORING IN COVERED AREAS OR CONTAINMENT AREAS. ANY CHEMICALS CONTAINER WITH A STORAGE OF 55 GALLONS OR MORE MUST BE STORED A MINIMUM OF 50 FEET FROM RECEIVING WATERS, CONSTRUCTED OR NATURAL. SITE MATERIALS AND STORM DRAINAGE FEATURES, STORM INLETS, IF INFEASIBLE DUE TO SITE CONSTRAINTS, STORE CONTAINERS AS FAR AS FEASIBLE AS THE SITE PERMITS AND DOCUMENT IN THE SWPPP THE SPECIFIC REASONS WHY THE 50-FOOT SET BACK IS INFEASIBLE AND HOW THE CONTAINERS WOULD BE STORED.

3. MAINTENANCE

THE FOLLOWING PROCEDURES SHALL BE USED TO MAINTAIN, IN GOOD CONDITION, VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES, AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THIS PLAN AND THE STANDARD SPECIFICATION.

- a. STABILIZED CONSTRUCTION ENTRANCE: THE ENTRANCE SHALL BE MAINTAINED TO PREVENT TRACKING OF SEDIMENT ONTO PUBLIC STREETS. THIS WILL BE DONE BY TOP DRESSING WITH ADDITIONAL STONES, REMOVE AND REPLACE TOP SOIL AT THE ENTRANCE, AND TO MAINTAIN ADJACENT PAVED STREETS SHALL BE SWEEP FREQUENTLY, IF NOT DAILY, TO ELIMINATE DUST AND SEDIMENTS.
- b. VEGETATIVE EROSION CONTROL MEASURES: THE VEGETATIVE GROWTH OF TEMPORARY AND PERMANENT SEEDING, SODDING, VEGETATIVE CHANNELS, VEGETATIVE FILTER, ETC. SHALL BE MAINTAINED PERIODICALLY AND SUPPLY ADEQUATE WATERING AND FERTILIZER. THE VEGETATIVE COVER SHALL BE REMOVED AND RESEEDED AS NECESSARY.
- c. INLET FILTERS: CLEAN OR REMOVE OR REPLACE. THE PROTECTION MEASURES AS SEDIMENT ACCUMULATES, THE FILTER BECOMES CLOGGED, AND/OR PERFORMANCE IS COMPROMISED, WHERE THERE IS EVIDENCE OF SEDIMENT ACCUMULATION, ADJACENT TO THE INLET PROTECTION MEASURE, REMOVE THE DEPOSITED SEDIMENT BY THE END OF THE SAME BUSINESS DAY IN WHICH IT IS FIRST OBSERVED BY THE END OF THE FOLLOWING BUSINESS DAY IF REMOVAL BY THE SAME BUSINESS DAY IS NOT FEASIBLE.
- d. SILT FILTER FENCE AND STRAW BALE BARRIER FILTERS: ANY DAMAGED AREAS SHALL BE REPAIRED TO MEET THE ORIGINAL DESIGN INTENT OR REMOVED AND REPLACED AS NECESSARY.
- e. RIP-RAP OUTLET PROTECTION: IT SHALL BE INSPECTED AFTER HIGH FLOWS FOR ANY SCOUR BENEATH THE RIP-RAP OR FOR STONES THAT HAVE BEEN DISLOADED. IT SHALL BE REPAIRED IMMEDIATELY.

4. INSPECTIONS

UNLESS OTHERWISE DIRECTED BY THE OWNER, THE CONTRACTOR, OR CONTRACTOR'S REPRESENTATIVE SHALL PROVIDE TRAINED PERSONNEL TO INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE WHICH HAVE NOT BEEN FINALLY STABILIZED, STRUCTURAL CONTROL MEASURES, AND LOCATION WHERE VEHICLES ENTER OR EXIT THE SITE. SUCH INSPECTIONS SHALL BE CONDUCTED AT LEAST EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF EACH STORM WATER DISCHARGE. INSPECTIONS SHALL BE CONDUCTED AT LEAST EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF EACH STORM WATER DISCHARGE. INSPECTIONS SHALL BE CONDUCTED AT LEAST EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF EACH STORM WATER DISCHARGE. INSPECTIONS SHALL BE CONDUCTED AT LEAST EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF EACH STORM WATER DISCHARGE. INSPECTIONS SHALL BE CONDUCTED AT LEAST EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF EACH STORM WATER DISCHARGE.

A. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION AND ALL AREAS WHERE STORM WATER TYPICALLY FLOWS WITHIN THE SITE SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. ALL LOCATIONS WHERE STABILIZATION MEASURES HAVE BEEN IMPLEMENTED MUST BE OBSERVED TO ENSURE THAT THEY ARE STILL STABILIZED, WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE. THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS AND ADJACENT PAVED AREAS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF SITE SEDIMENT TRACKING.

B. FOR SITES DISCHARGING DEWATERING WATER, AN INSPECTION MUST BE CONDUCTED DURING THE DISCHARGE, ONCE PER DAY ON WHICH THE DISCHARGE OCCURS AND RECORD THE FOLLOWING IN A REPORT WITHIN 24 HOURS OF COMPLETING THE INSPECTION: THE INSPECTION DATE, NAMES AND TITLES OF PERSONNEL PERFORMING THE INSPECTION, APPROXIMATE TIMES THAT THE DEWATERING DISCHARGE BEGAN AND ENDED ON THE DAY OF INSPECTION, ESTIMATES OF THE RATE (GALLONS PER DAY) OF DISCHARGE ON THE DAY OF INSPECTION, AND WHETHER OR NOT ANY OF THE FOLLOWING INDICATORS OF POLLUTANT DISCHARGE WERE OBSERVED AT THE POINT OF DISCHARGE: A SEDIMENT PLUME, SUSPENDED SOLIDS, UNUSUAL COLOR, PRESENCE OF ODOUR, DECREASED CLARITY, PRESENCE OF FOAM, A VISIBLE SHEEN ON THE WATER SURFACE, AND/OR VISIBLE OIL DEPOSITS ON THE BOTTOM OR SHORELINE OF THE RECEIVING WATER.

C. BASED ON THE RESULTS OF THE INSPECTION, THE DESCRIPTION OF POTENTIAL POLLUTANT SOURCES IDENTIFIED IN SECTION 1 ABOVE AND POLLUTION PREVENTION MEASURES IDENTIFIED IN SECTION 2 ABOVE SHALL BE REVISED AS APPROPRIATE AS SOON AS PRACTICABLE AFTER SUCH INSPECTION. ANY CHANGES TO THIS PLAN RESULTING FROM THE REQUIRED INSPECTIONS SHALL BE IMPLEMENTED WITHIN 7 CALENDAR DAYS FOLLOWING THE INSPECTION.

D. ALL INSPECTION REPORTS MUST BE RETAINED AT THE CONSTRUCTION SITE. ANY FLOODING OR OTHER UNSAFE CONDITIONS THAT DELAY INSPECTIONS MUST BE DOCUMENTED IN THE INSPECTION REPORT.

E. A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THIS PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH SECTION 4.B. SHALL BE MADE AND RETAINED AS PART OF THE PLAN FOR AT LEAST THREE (3) YEARS AFTER THE DATE OF THE INSPECTION. THE REPORT SHALL BE SIGNED BY THE CONTRACTORS DESIGNATED "QUALIFIED INDIVIDUAL" AND COPIES FORWARDED TO THE ENGINEER AND OWNER.

F. THE PERMITTED SHALL NOTIFY THE APPROPRIATE AGENCY FIELD OPERATIONS SECTION OFFICE BY EMAIL AT: EPA549N00N00P00LL00NS00, TELEPHONE OR FAX (SEE ATTACHMENT A OF THE GENERAL NPDES STORMWATER WATER PERMIT FOR CONSTRUCTION ACTIVITIES) WITHIN 24 HOURS OF ANY INCIDENCE OF NONCOMPLIANCE FOR ANY VIOLATION OF THE STORM WATER POLLUTION PREVENTION PLAN OBSERVED DURING ANY INSPECTION CONDUCTED, OR FOR VIOLATIONS OF ANY CONDITIONS OF THE PERMIT. THE REPORT SHALL COMPLETE AND SUBMIT WITHIN 5 DAYS OF AN "INCIDENCE OF NONCOMPLIANCE" (ION) REPORT FOR ANY VIOLATION OF THE STORM WATER POLLUTION PREVENTION PLAN OBSERVED DURING ANY INSPECTION CONDUCTED, OR FOR VIOLATIONS OF ANY CONDITIONS OF THIS PERMIT. THE REPORT SHALL BE ON FORMS PROVIDED BY THE AGENCY AND INCLUDE SPECIFIC INFORMATION ON THE CAUSE OF NONCOMPLIANCE, ACTIONS WHICH WERE TAKEN TO PREVENT ANY FURTHER CAUSES OF NONCOMPLIANCE, AND A STATEMENT DETAILING ANY ENVIRONMENTAL IMPACT WHICH HAS RESULTED FROM THE NONCOMPLIANCE. CORRECTIVE ACTIONS MUST BE UNDERTAKEN IMMEDIATELY TO ADDRESS THE IDENTIFIED NON-COMPLIANCE ISSUE(S).

G. ALL REPORTS OF NONCOMPLIANCE SHALL BE SIGNED BY A RESPONSIBLE AUTHORITY AS DEFINED IN PART VI.G OF THE ILLINOIS PERMIT (SIGNATORY REQUIREMENTS).

H. AFTER THE INITIAL CONTACT HAS BEEN MADE WITH THE APPROPRIATE AGENCY FIELD OPERATIONS SECTION OFFICE, ALL REPORTS OF NONCOMPLIANCE SHALL BE MAILED TO THE AGENCY AT THE FOLLOWING ADDRESS:

5. NON-STORM WATER DISCHARGES

EXCEPT FOR FLOWS FROM FIRE-FIGHTING ACTIVITIES, SOURCES OF NON-STORM WATER THAT MAY BE COMBINED WITH STORM WATER DISCHARGES ASSOCIATED WITH THE ACTIVITY ADDRESSED IN THIS PLAN ARE AS FOLLOWS:

- A. WATER MAIN FLUSHING
- B. FIRE HYDRANT FLUSHING
- C. WET DRY CLEANING OR DUST CONTROL
- D. IRRIGATION DRAINAGE FOR VEGETATIVE GROWTH FOR SEEDING, ETC.
- E. UNCONTAMINATED GROUNDWATER (FROM DE-WATERING ACTIVITIES).

THE POLLUTION MEASURES SPECIFIED IN THE PLAN SHALL BE IMPLEMENTED FOR NON-STORM WATER COMPONENTS OF THE DISCHARGE EXCEPT THAT EROSION DUE TO IRRIGATION OF SEEDING SHALL BE CONSIDERED MINOR.

6. GENERAL NOTES

- A. ALL ACCESS TO AND FROM THE CONSTRUCTION SITE IS TO BE RESTRICTED TO THE CONSTRUCTION ENTRANCE.
- B. ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE EFFECTIVE PERFORMANCE OF THEIR INTENDED FUNCTION.
- C. 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.
- D. ANY SEDIMENT REACHING A PUBLIC OR PRIVATE ROAD SHALL BE REMOVED BY SHOVELING OR STREET CLEANING (NOT FLUSHING) BEFORE THE END OF EACH WORKDAY AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL.
- E. 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.
- F. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN 7 CALENDAR DAYS FOLLOWING THE END OF ACTIVE DISTURBANCE OR RESTURBANCE.
- G. 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.
- H. THE CONTRACTOR SHALL TAKE THE NECESSARY STEPS TO CONTROL WASTE SUCH AS BUILDING MATERIALS, CONCRETE TRUCK WASHOUT, CHEMICALS, LITTER AND SANITARY WASTE AT THE CONSTRUCTION SITE THAT MAY CAUSE ADVERSE IMPACTS TO WATER QUALITY.
- I. ALL STORM SEWER FRAMES AND GRATES/LIDS SHALL BE MARKED WITH "DUMP NO WASTE" AND "DRAINS TO CREEK".
- J. A NOTICE OF INTENT (NOI) MUST BE SUBMITTED TO THE NPDES PERMITTING AUTHORITY AND POSTMARKED AT LEAST 30 DAYS BEFORE COMMENCEMENT OF ANY WORK ON-SITE FOR ALL CONSTRUCTION SITES OVER ONE ACRE. INCLUDED IN THE NOI SHALL BE THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP), WHICH INCLUDES THE APPROPRIATE BMP'S TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM THE CONSTRUCTION SITE.
- K. IF, AT ANY TIME, AN EROSION OR SEDIMENT CONTROL DEVICE FAILS, AN INCIDENT OF NON-COMPLIANCE MUST BE VERIFIED AND REPORTED TO EPA WITHIN 24 HOURS AND IN WRITING WITHIN FIVE DAYS OF THE INCIDENT, AS REQUIRED BY THE NPDES CONSTRUCTION GENERAL PERMIT.
- L. A NOTICE OF TERMINATION (NOT) MUST BE COMPLETED AND SUBMITTED TO THE IEPA. WHEN ALL PERMANENT EROSION CONTROL MEASURES ARE IN PLACE WITH A 70% ESTABLISHMENT OF VEGETATION.
- M. DUST CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 107.36 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. APPROPRIATE MEASURES INCLUDE SPRINKLING/IRRIGATION, VEGETATIVE COVER, OR MULCH.

7. LONG TERM (POST CONSTRUCTION) MAINTENANCE

COMPONENTS OF THE STORMWATER MANAGEMENT FACILITIES, STORMWATER COLLECTION SYSTEM, AND LANDSCAPED/VEGETATED AREAS SHALL BE INSPECTED PERIODICALLY BETWEEN MARCH AND NOVEMBER, AS NECESSARY, TO ENSURE PROPER PERFORMANCE. AT A MINIMUM THE FOLLOWING MEASURES SHALL BE TAKEN TO ENSURE THAT SYSTEMS OPERATE AS DESIGNED AND THE DESIGN VOLUME OF ANY DETENTION FACILITIES ARE MAINTAINED:

- A. LITTER AND DEBRIS SHALL BE CONTROLLED THROUGHOUT THE SITE
- B. LANDSCAPE AREAS SHALL BE MAINTAINED WITH REGULAR MOWING AND RESTORED WITH APPROPRIATE RIPRAP AREAS SHALL BE REPAIRED WITH THE ADDITION OF NEW RIPRAP, AS NECESSARY, OF SIMILAR SIZE AND SHAPE.
- C. INSPECT ANY SIDE SLOPE/EMBANKMENTS IN DETENTION BASIN OR ALONG FLOW ROUTE FOR SETTLEMENT AND EROSION AND REPAIR AS NECESSARY.
- D. ENSURE NO OBSTRUCTIONS ARE BLOCKING THE EMERGENCY OVERFLOW WEIR.
- E. INSPECT THE RESTRICTOR MANHOLE TO ENSURE SEDIMENT OR DEBRIS IS NOT BLOCKING RESTRICTORS AND OUTLET PIPES.
- F. INSPECT ALL DETENTION AND VOLUME CONTROL FACILITIES TO ENSURE THE CONSTRUCTED VOLUME IS MAINTAINED; NO SEDIMENT, TOPSOIL, OR OTHER DUMPING INTO THE FACILITY SHALL BE ALLOWED. ANY ACCUMULATED SEDIMENT SHALL BE DREGGED AS NECESSARY TO RESTORE THE REQUIRED STORAGE VOLUME.
- G. INSPECT STORM INLETS/CATCH BASINS/MANHOLE/CULVERTS FOR ACCUMULATED SEDIMENT AND REMOVE SEDIMENT AS NECESSARY.
- H. REMOVE ACCUMULATED LEAVES AND OTHER DEBRIS FROM STORM SEWER INLET GRATES, AS NECESSARY.
- I. NATIVE PLANTING AREAS OR STORM WATER SEED MIX AREAS SHALL BE MAINTAINED PER THE APPROVED PLANTING PLAN.

8. CORRECTIVE ACTIONS

CORRECTIVE ACTIONS MUST BE TAKEN TO ADDRESS ANY OF THE FOLLOWING CONDITIONS IDENTIFIED AT THE SITE: A STORMWATER CONTROL NEEDS REPAIR OR REPLACEMENT; A STORMWATER CONTROL NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT WAS NEVER INSTALLED OR WAS INSTALLED INCORRECTLY; POLLUTANTS ARE BEING DISCHARGED INTO RECEIVING WATERS OR WATER QUALITY STANDARDS; OR A PROHIBITED DISCHARGE HAS OCCURRED. CORRECTIVE ACTIONS MUST BE COMPLETED AS SOON AS POSSIBLE AND DOCUMENTED WITHIN 7 DAYS IN AN INSPECTION REPORT OR REPORT OF NONCOMPLIANCE. IF IT IS INFEASIBLE TO COMPLETE THE INSTALLATION OR REPAIR WITHIN 7 CALENDAR DAYS, IT MUST BE DOCUMENTED WHY IT IS INFEASIBLE TO COMPLETE THE INSTALLATION OR REPAIR WITHIN THE 7-DAY TIMEFRAME AND DOCUMENT THE SCHEDULE FOR INSTALLING THE STORMWATER CONTROL(S) AND MAKING IT OPERATIONAL AS SOON AS FEASIBLE AFTER THE 7-DAY TIMEFRAME. IF MAINTENANCE IS REQUIRED FOR THE SAME STORMWATER CONTROL AT THE SAME LOCATION THREE OR MORE TIMES, THE CONTROL MUST BE REPAIRED IN A MANNER THAT PREVENTS CONTINUED FAILURE TO THE EXTENT FEASIBLE, AND IT MUST BE DOCUMENTED THE CONDITION AND HOW IT WAS REPAIRED IN THE RECORDS. ALTERNATIVELY, IT MUST BE DOCUMENTED IN THE RECORDS WHY THE SPECIFIC REOCCURRENCE OF THIS SAME ISSUE SHOULD CONTINUE TO BE ADDRESSED AS A ROUTINE MAINTENANCE FIX.

9. SEQUENCE OF EVENTS AND ESTIMATED CONSTRUCTION SCHEDULE

- 1. INSTALL TEMPORARY EROSION CONTROL: SPRING 2026
- 2. EARTH EXCAVATION/ROUGH GRADING: SPRING 2026
- 3. ALL CURB AND AGGREGATE BAY: SPRING 2026
- 4. PAVING: SPRING 2026
- 5. SEEDING AND LANDSCAPING: SPRING 2026
- 6. 70% ESTABLISHMENT OF VEGETATION: SUMMER 2026
- 7. TEMPORARY EROSION CONTROL: SUMMER 2026

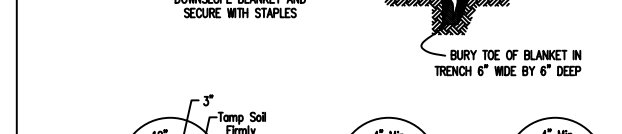
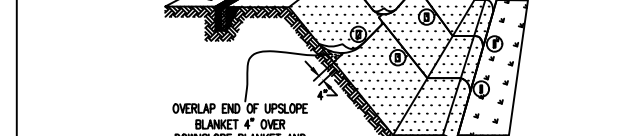
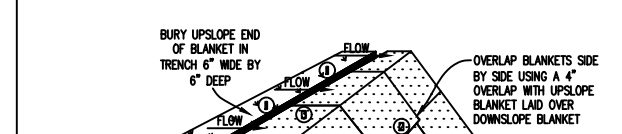
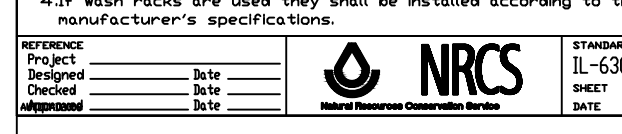
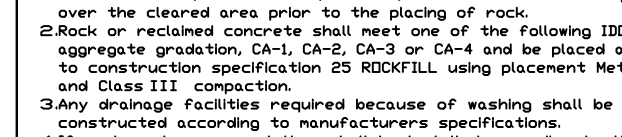
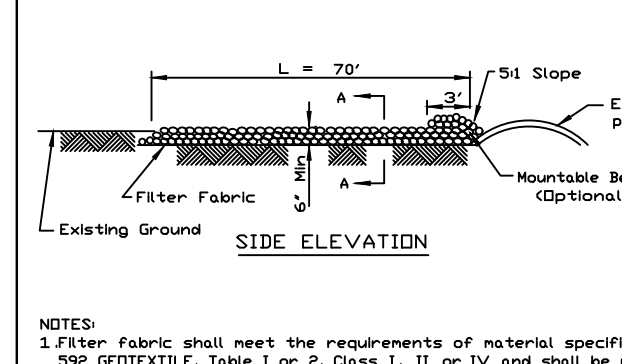
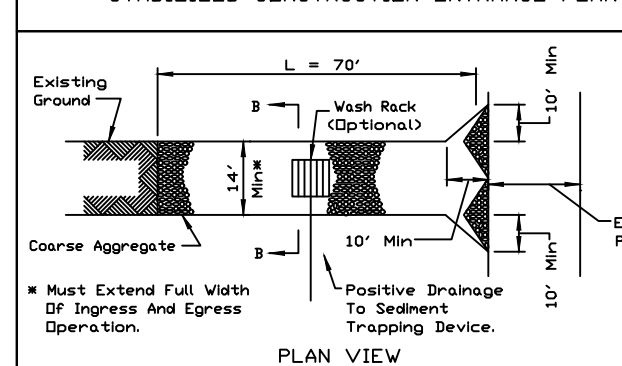
ESTIMATED SCHEDULE SHOWN FOR REFERENCE ONLY. ACTUAL DATES WILL BE DETERMINED BY CONTRACTOR BASED UPON MULTIPLE FACTORS. ESTIMATED THAT CLEARED AREAS MAY BE EXPOSED FOR APPROXIMATELY 45 DAYS.

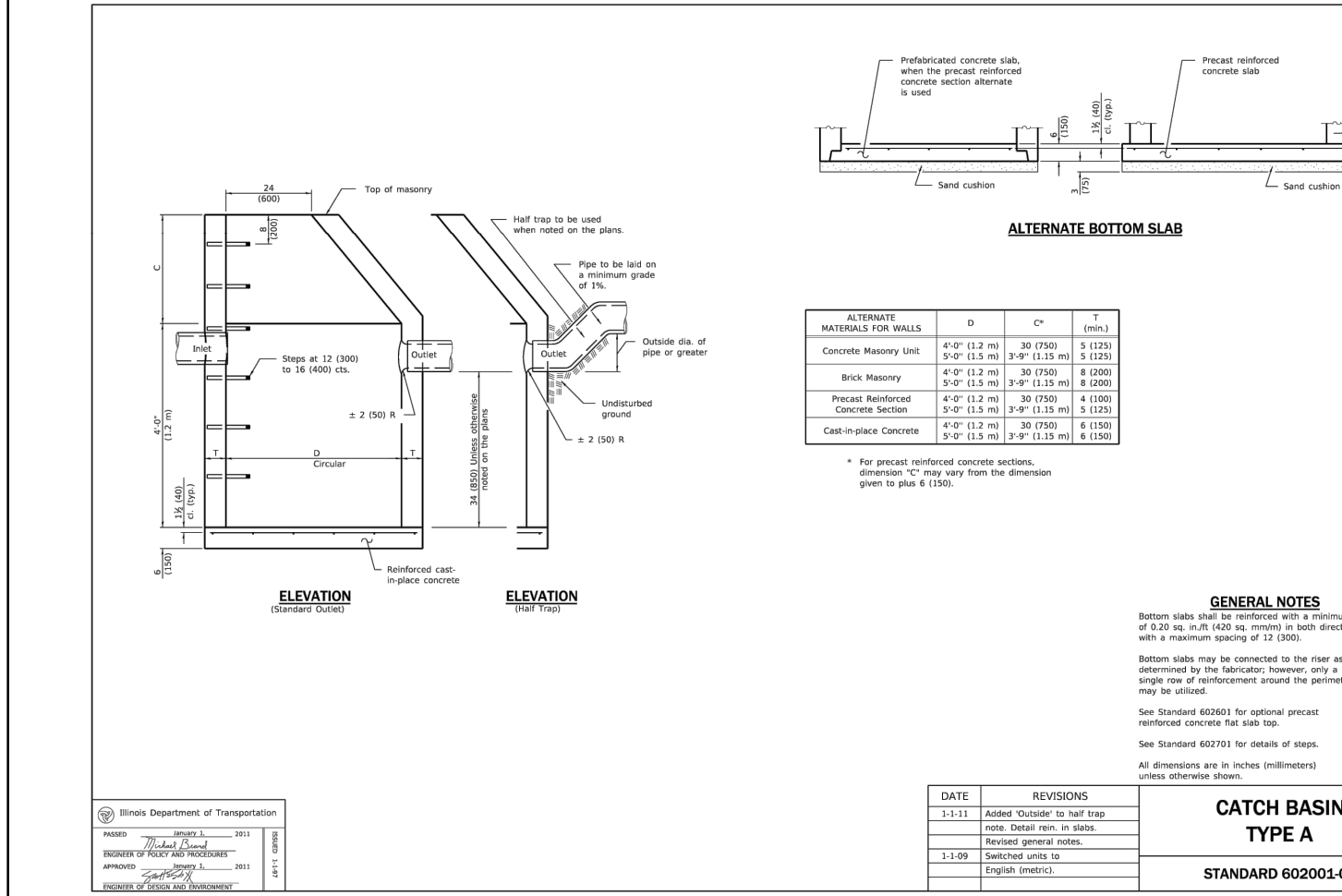
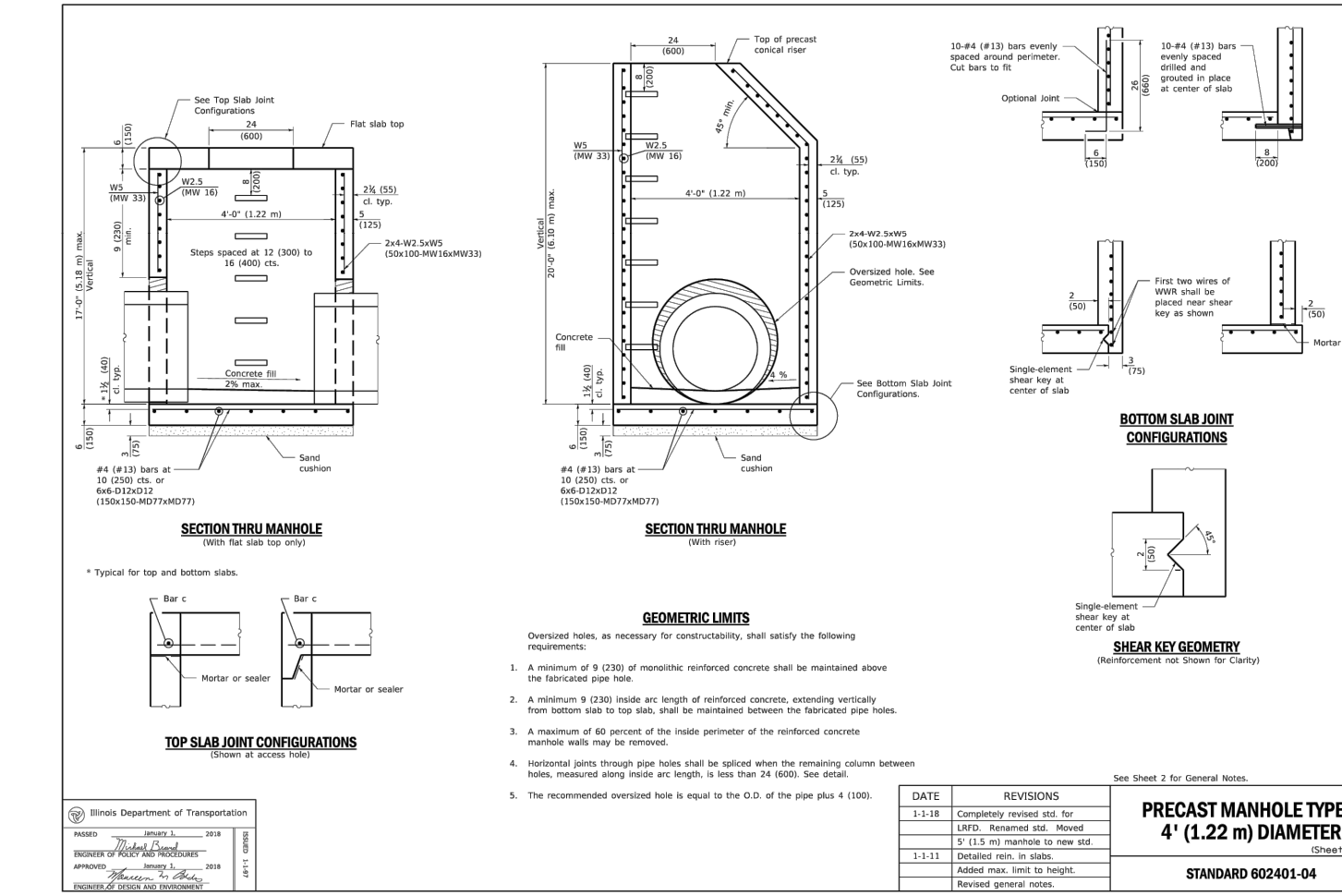
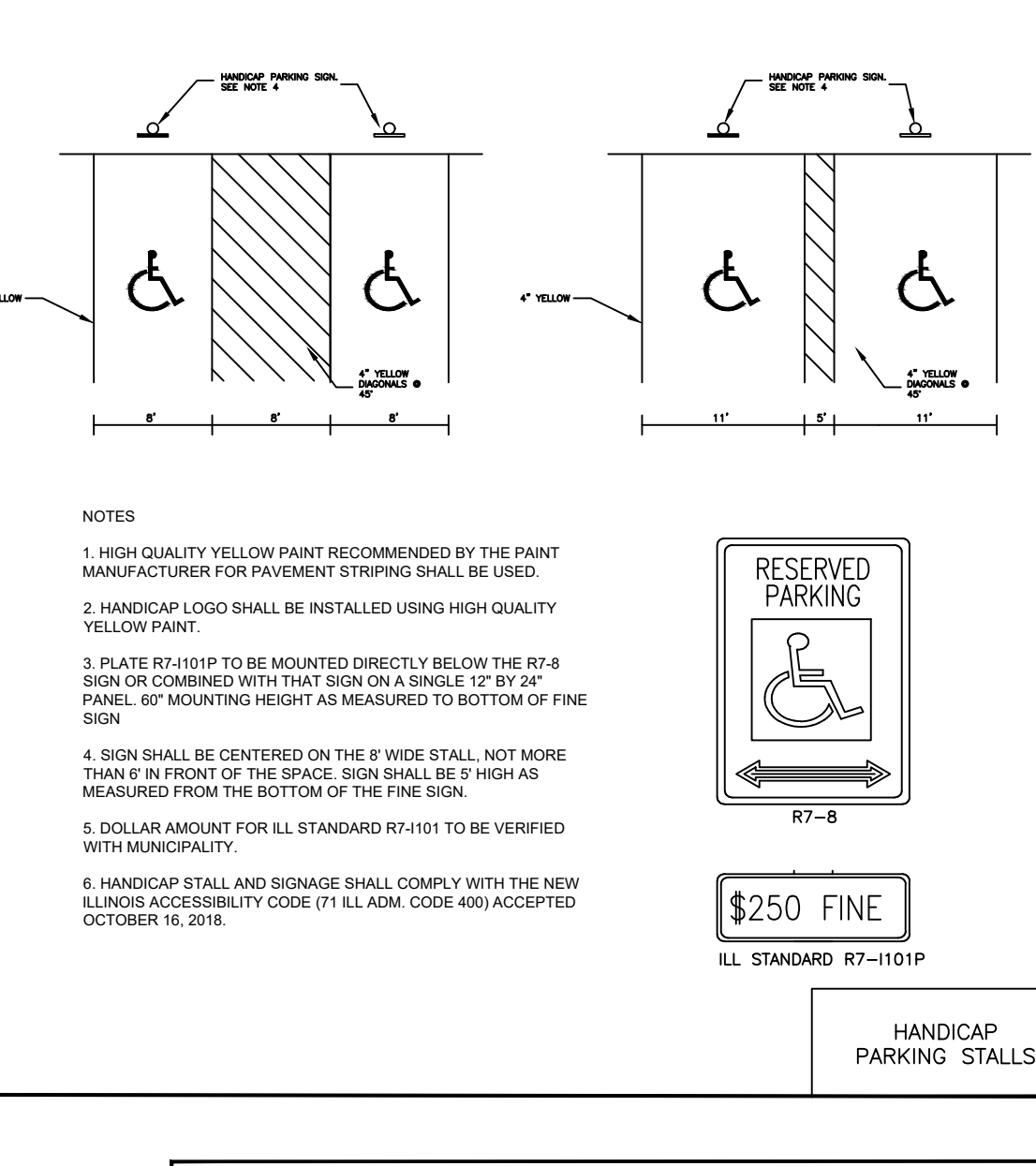
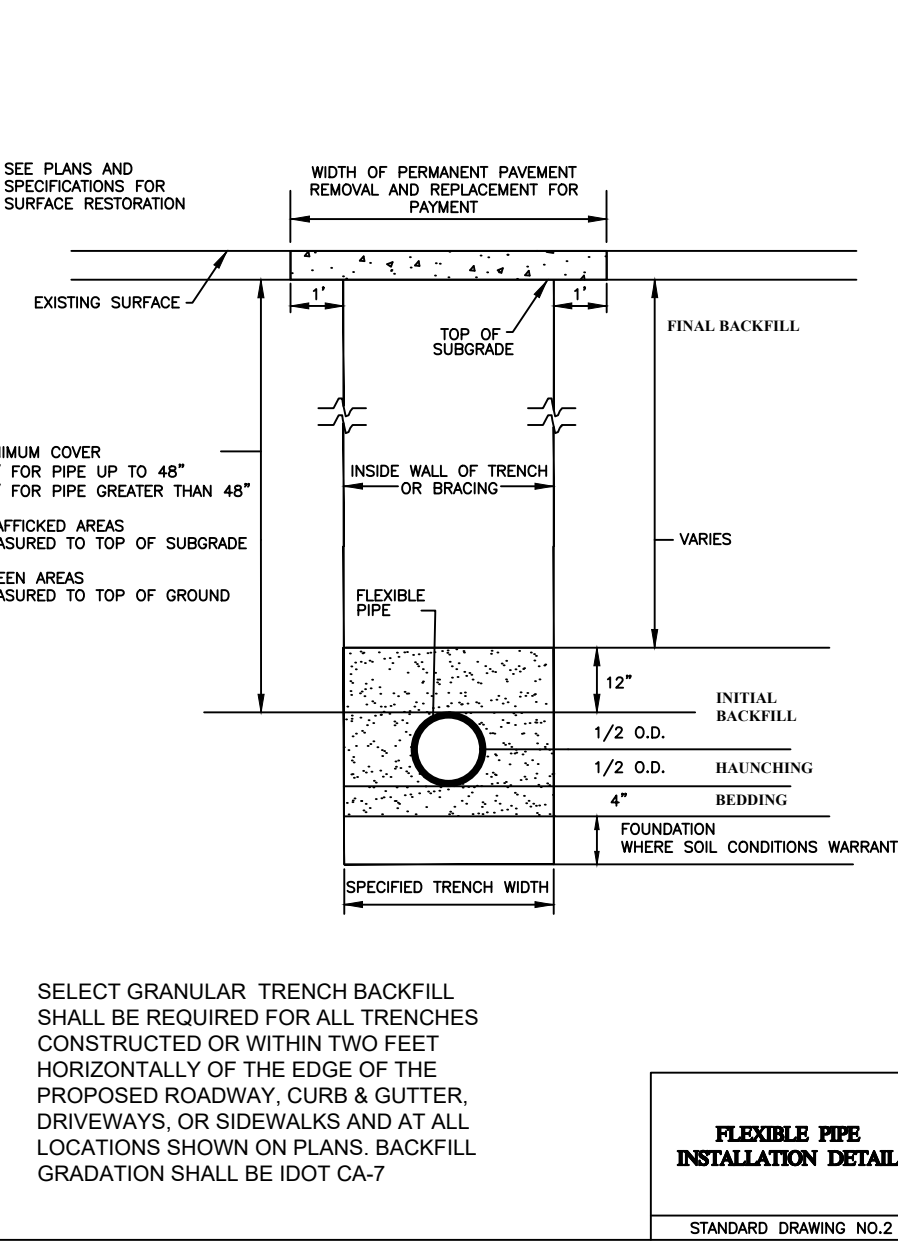
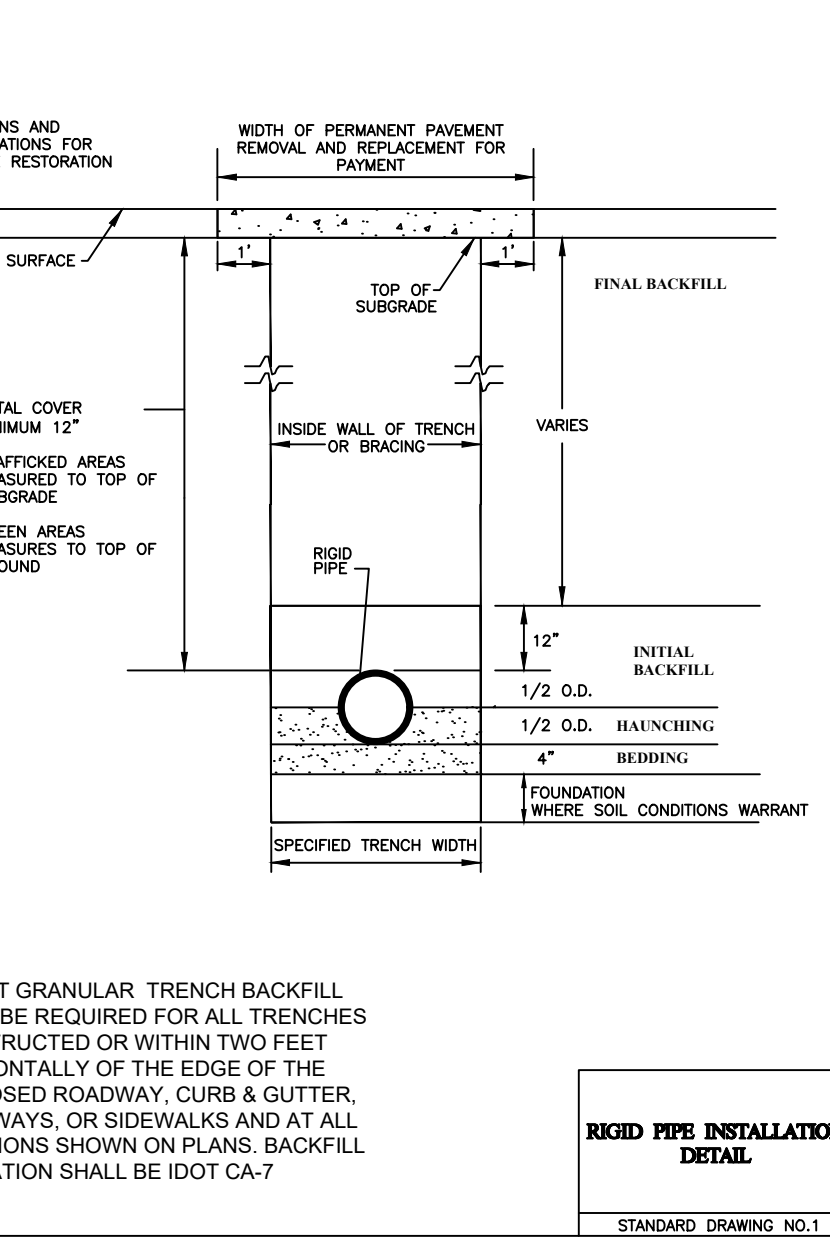
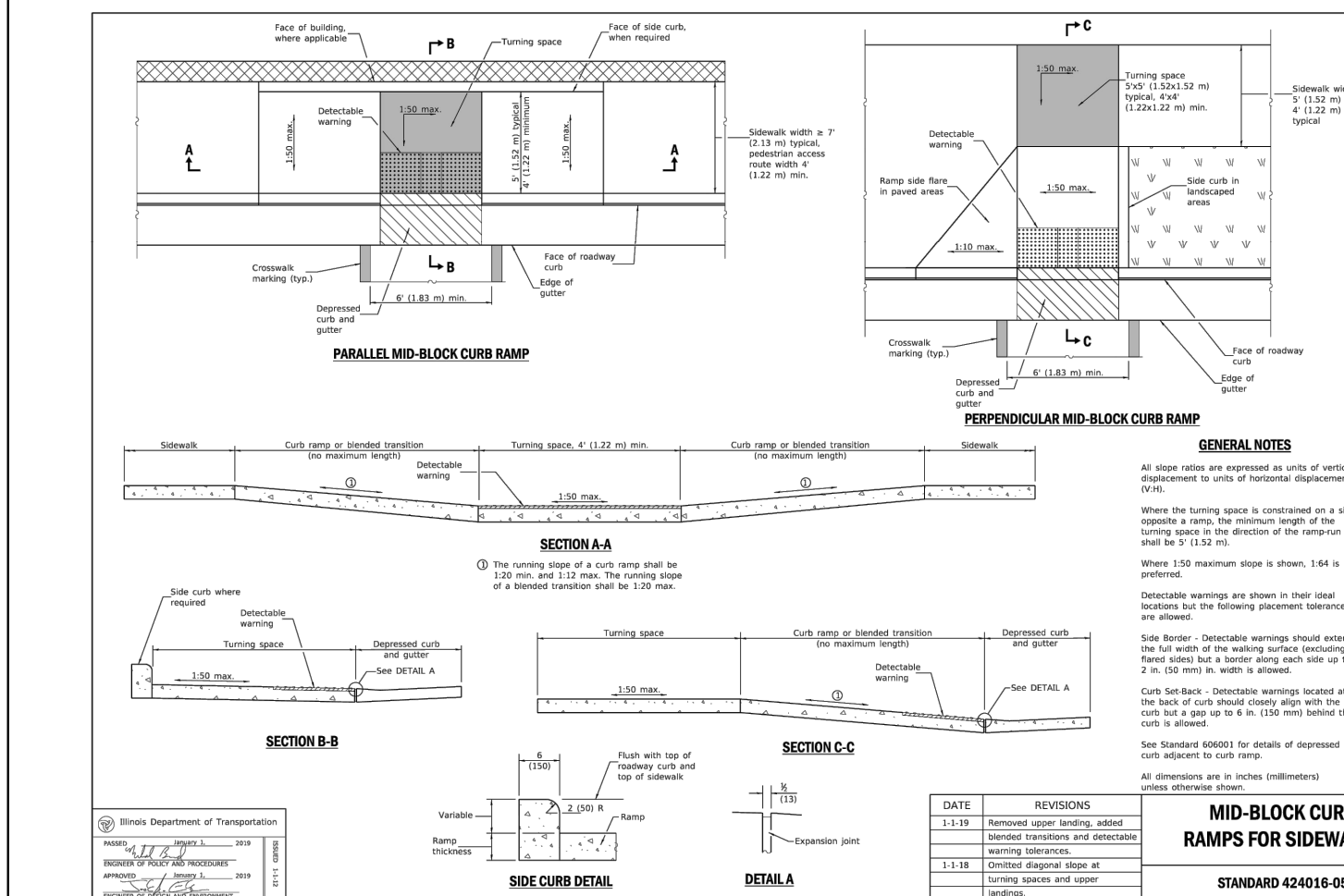
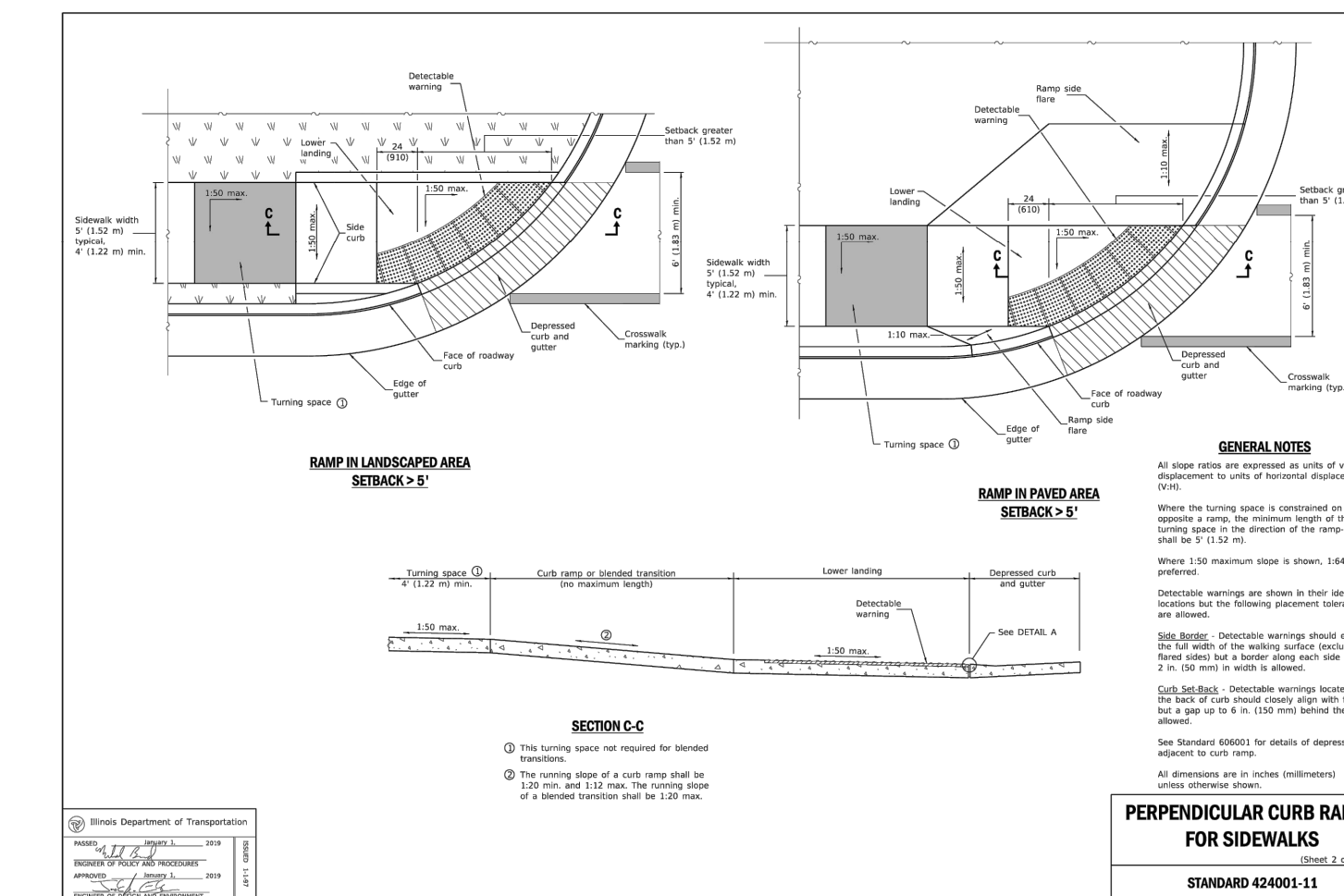
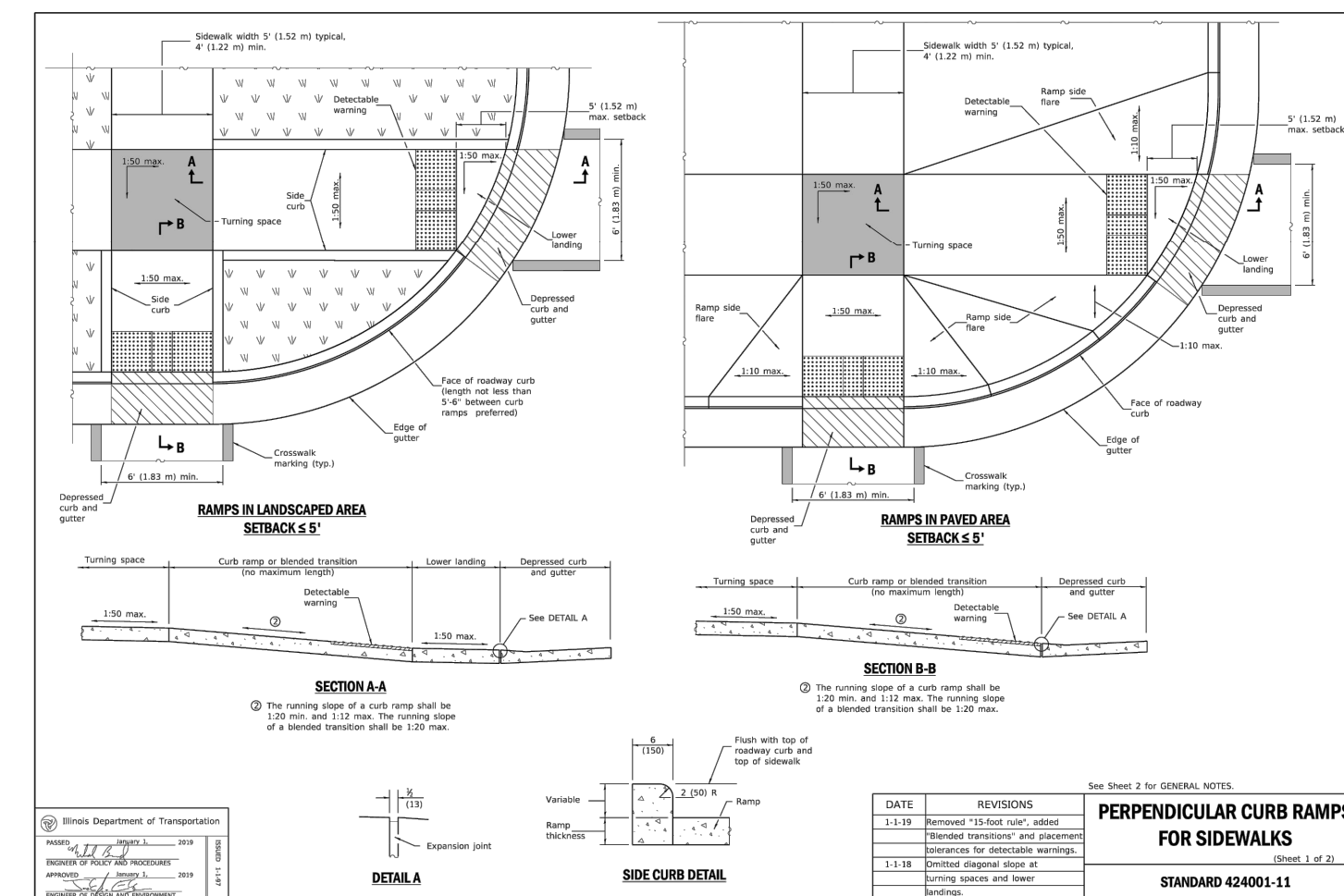
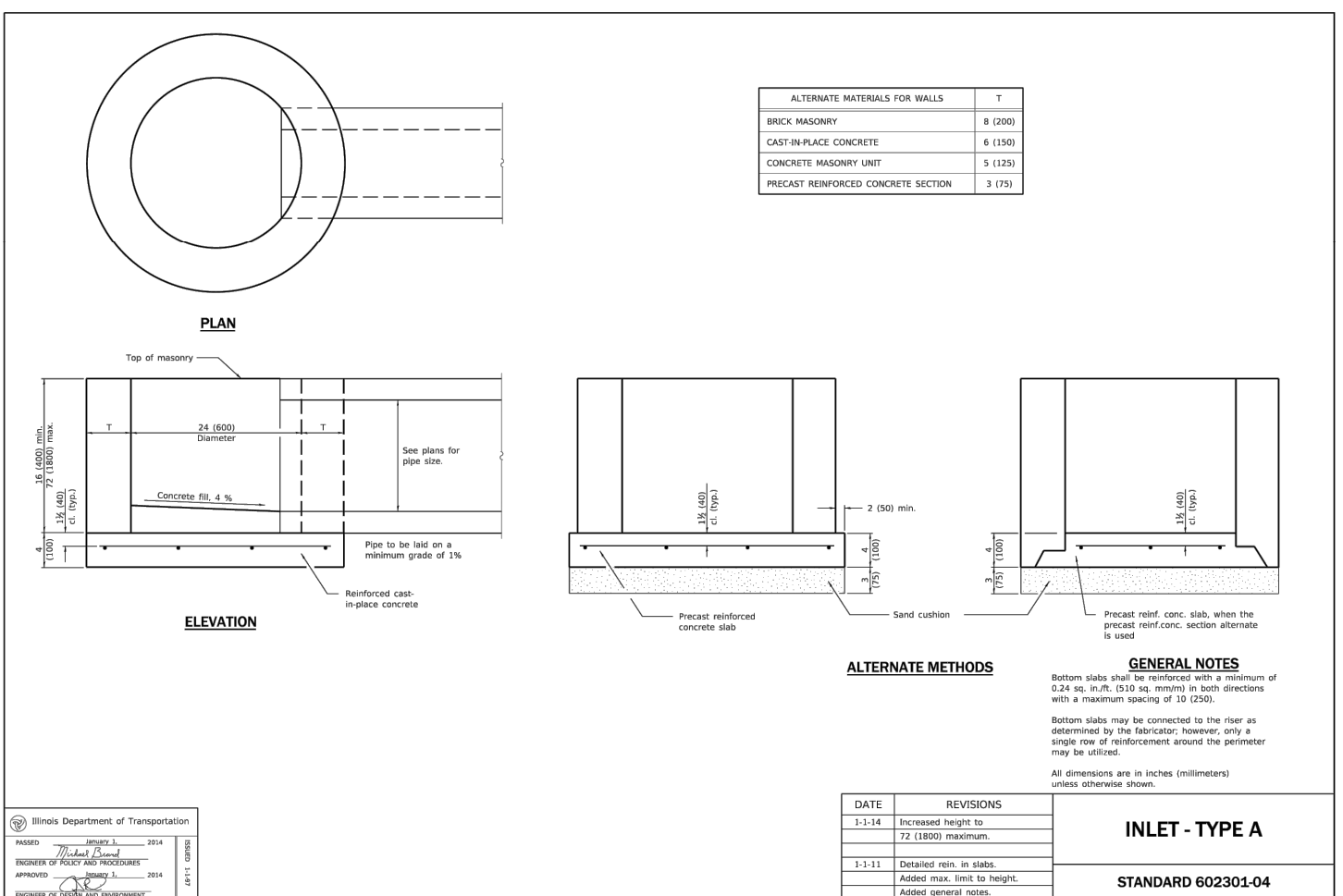
SOIL PROTECTION CHART

STABILIZATION TYPE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
PERMANENT SEEDING												
DORMANT SEEDING												
TEMPORARY SEEDING												
SODDING												
MULCHING												

- A. KENTUCKY BLUEGRASS 90 LBS/ACRE
- B. MIXED W/ PERENNIAL RYE GRASS 30 LBS/ACRE
- C. SPRING GRASS 100 LBS/ACRE
- D. WHEAT OR CEREAL RYE 150 LBS/ACRE
- E. SOD
- F. STRAW MULCH 2 TONS/ACRE
- G. IRRIGATION NEEDED DURING JUNE AND JULY
- H. IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING.
- I. NO MOWING AS NECESSARY.

STABILIZED CONSTRUCTION ENTRANCE PLAN



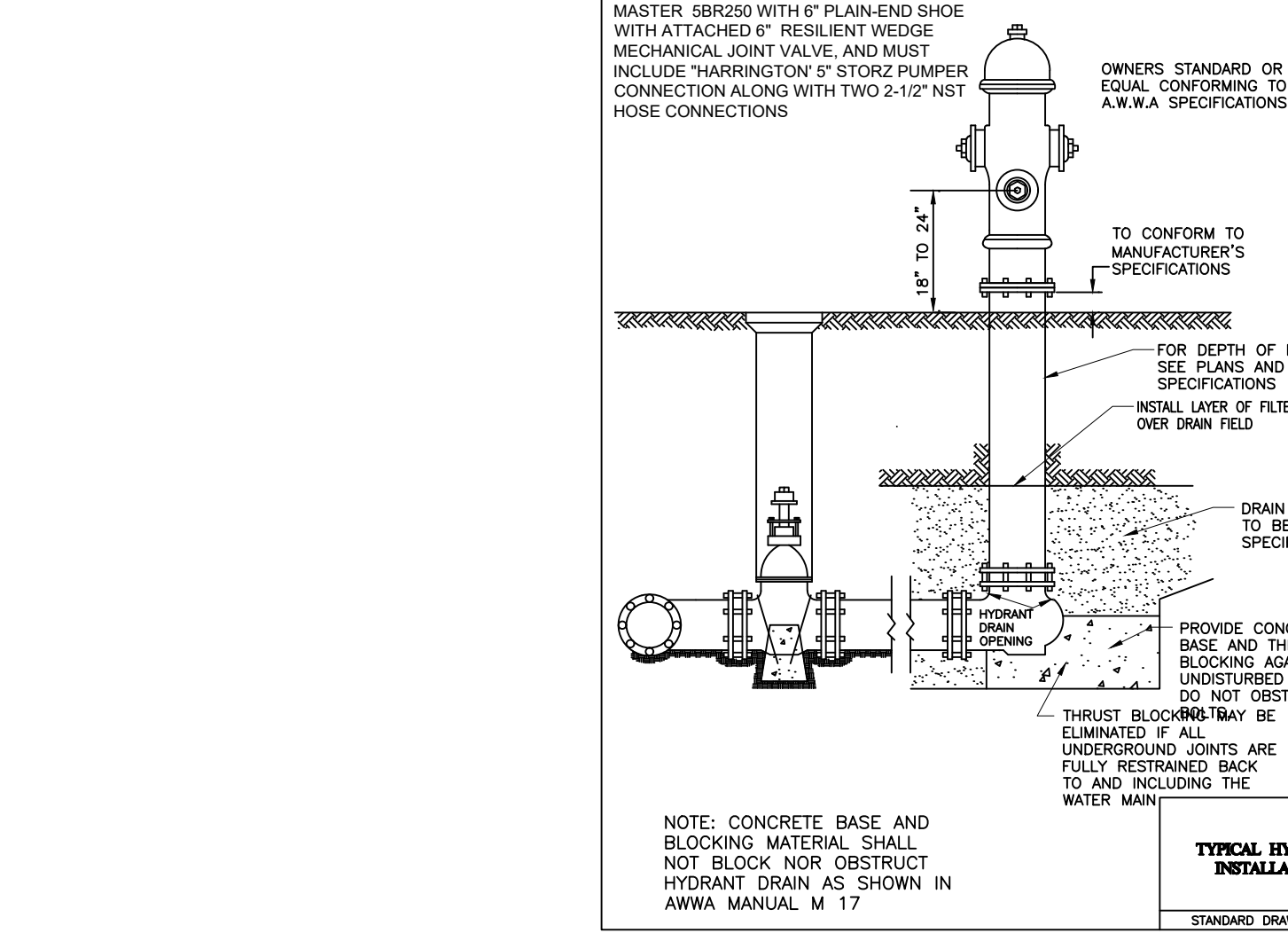
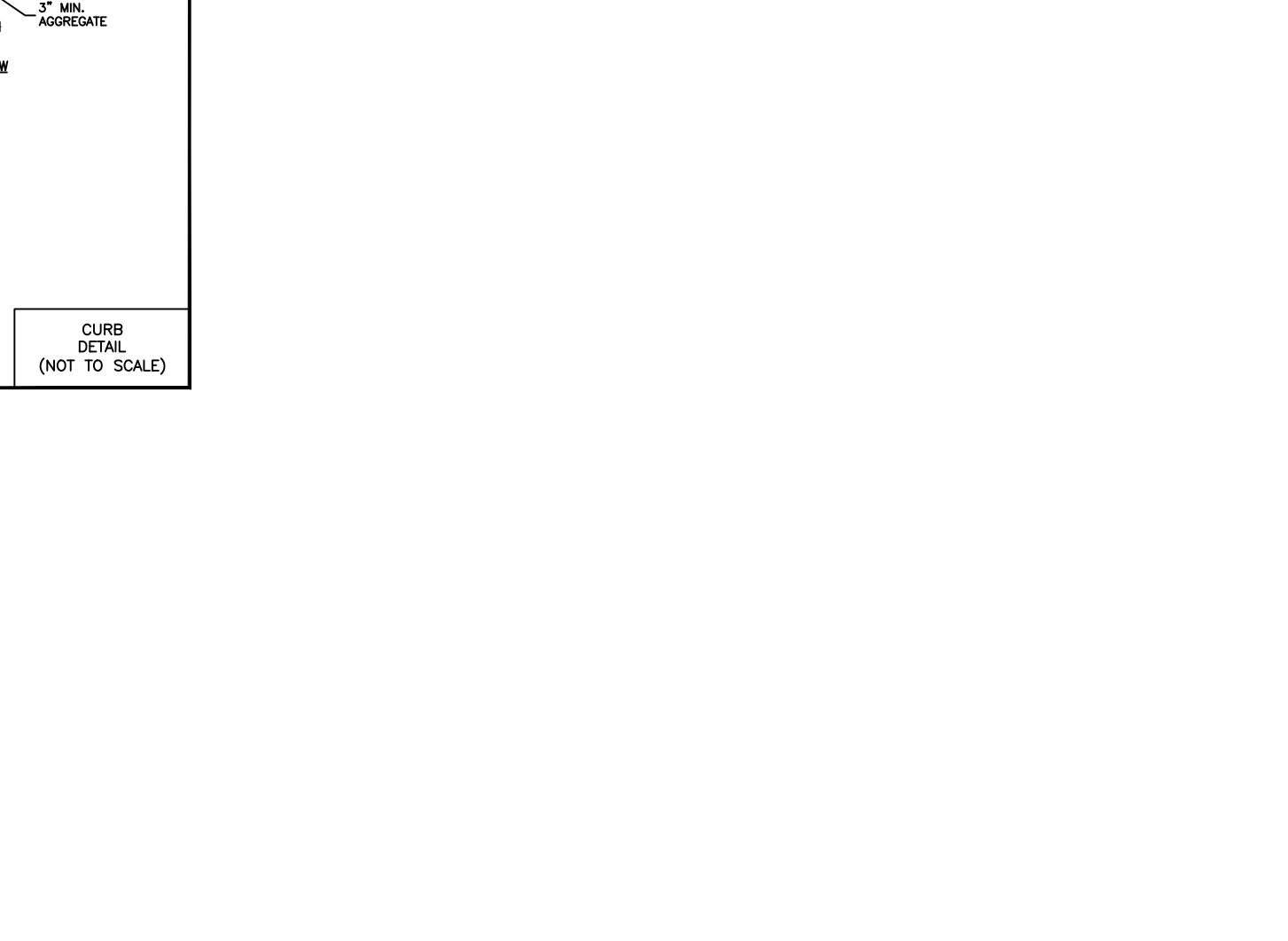
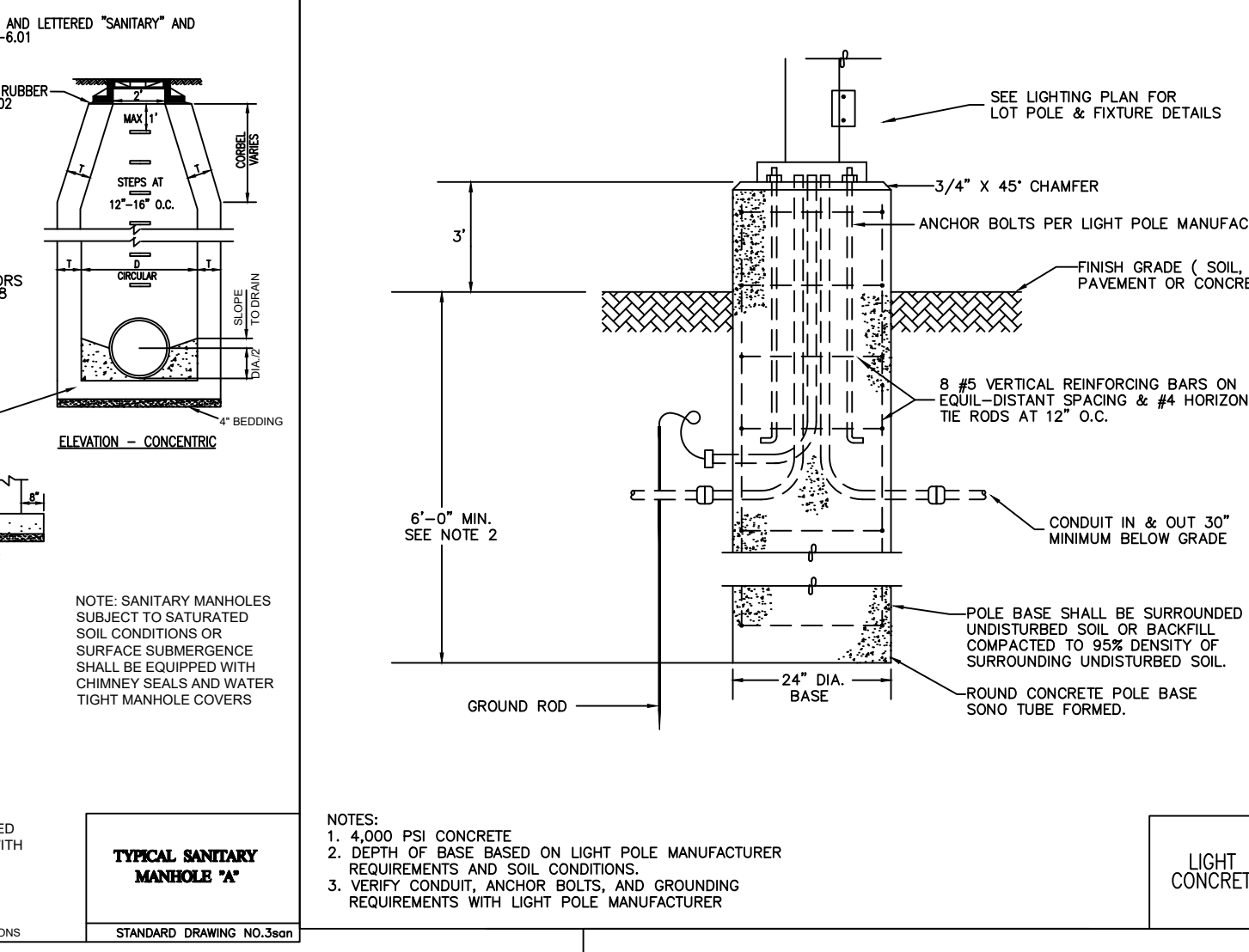
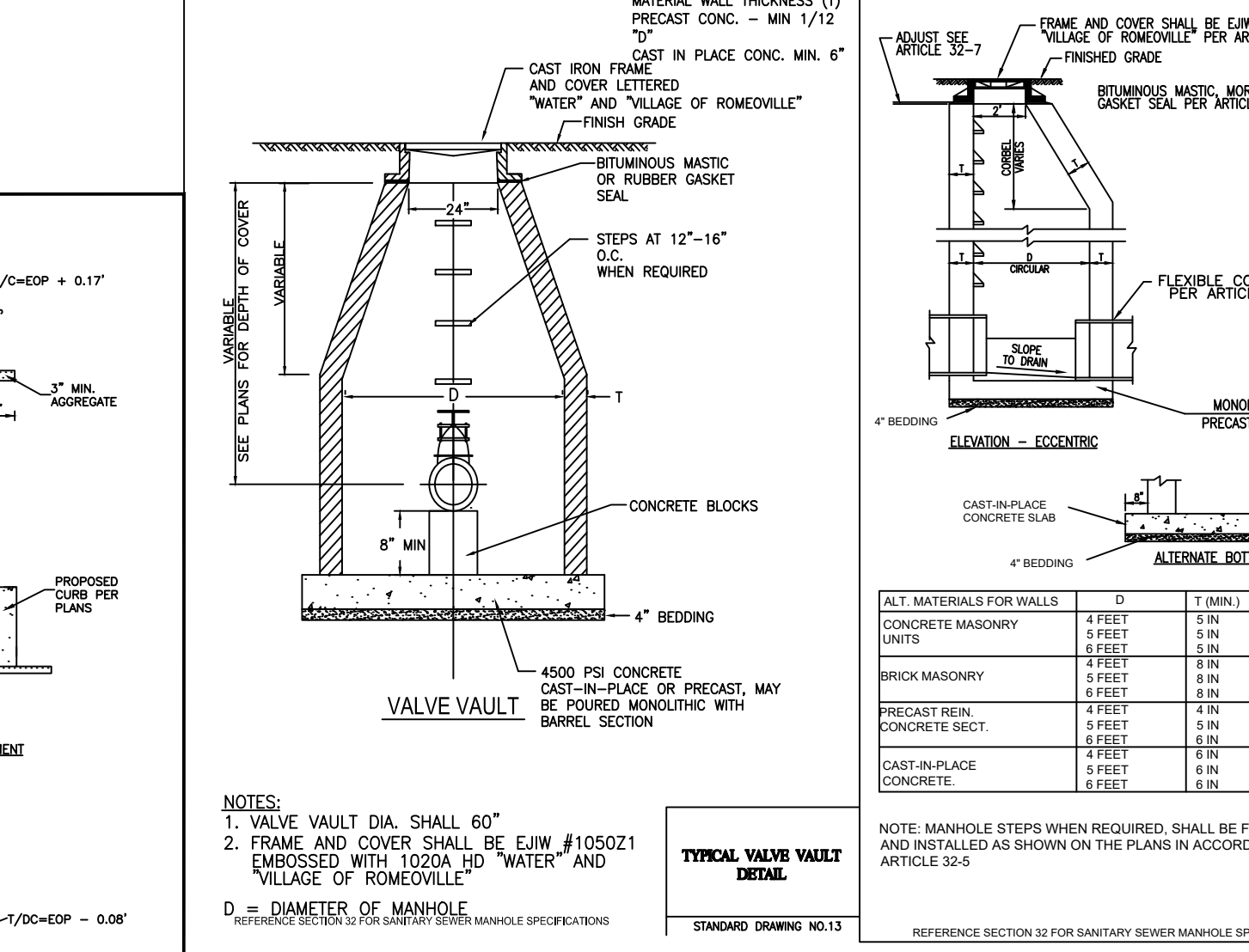
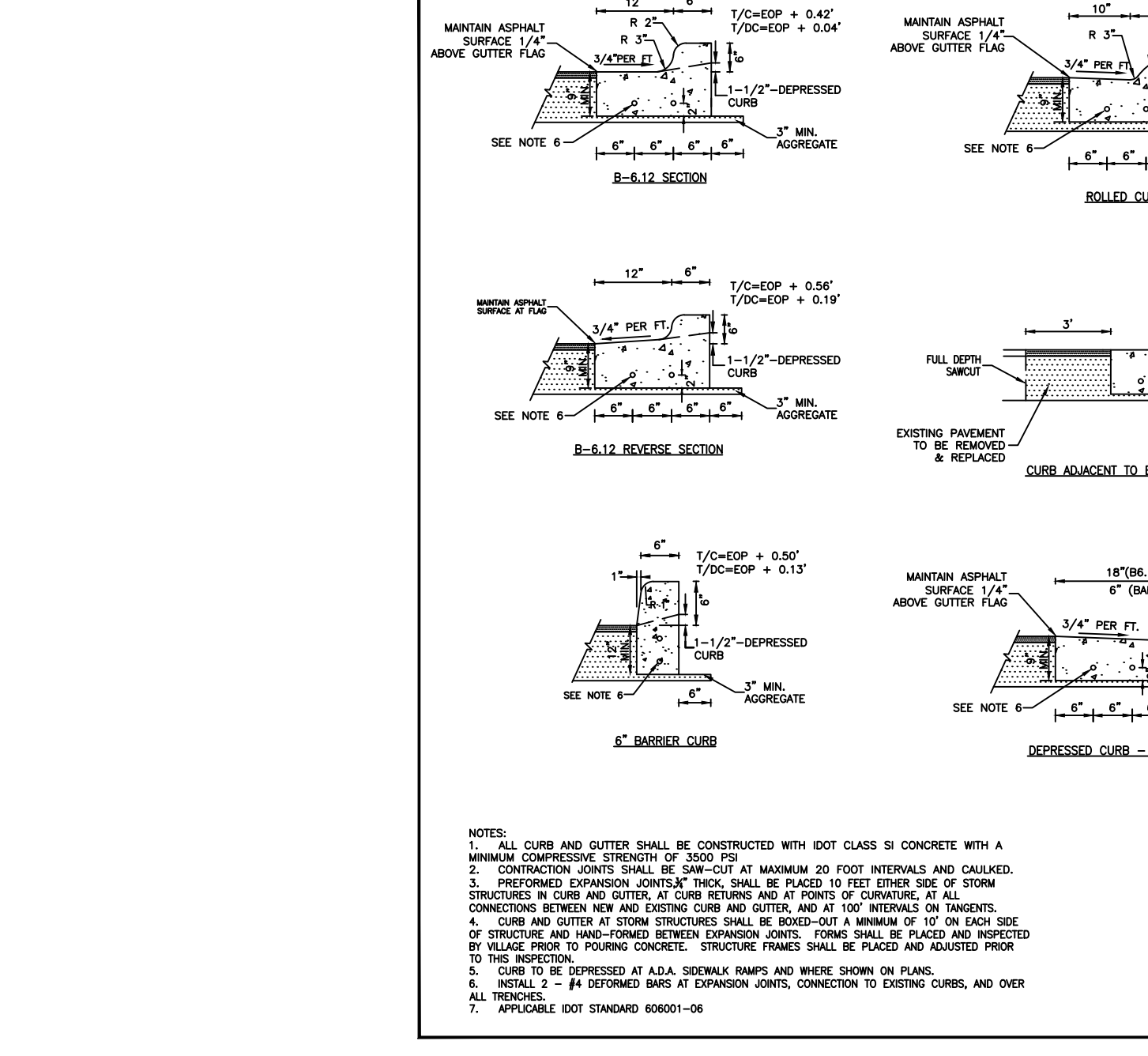


DUCTILE IRON JOINT RESTRAINT TABLE

PIPE SIZE (IN.)	TEE BRANCH	90 ELBOW	45 ELBOW	22.5 ELBOW	11.25 ELBOW	DEAD END
4	10	8	4	2	1	17
6	19	11	5	3	2	23
8	27	15	6	3	2	31
10	34	18	8	4	2	37
12	41	21	9	5	2	43

NOTES

1. RESTRAINED LENGTHS SHOWN (IN FEET) ARE BASED ON EBAA IRON'S RESTRAINT LENGTH CALCULATOR VERSION 7.1.3.
2. TEXT PRESSURE BASED ON 150PSI.
3. FOR PIPES ENCASED IN POLYETHYLENE, INCREASE THE GIVEN VALUE BY A FACTOR OF 1.5.
4. COORDINATE WITH MUNICIPALITY AS NECESSARY REGARDING RESTRAINED LENGTHS.



NO. DATE REVISION

1	03.05.26	INITIAL SUBMITTAL
2	04.20.26	PER VILLAGE

RENWICK ROAD PLAZA
788-800 S. WEBER RD.
ROMEOWILLE, WILL COUNTY, IL

DETAILS - 1

GEOTECH INC.
CONSULTING ENGINEERS - LAND SURVEYORS
1207 CEDARWOOD DRIVE CREST HILL, ILLINOIS 60403 815/730-1010

PROJECT NO. 21999
DATE: 03.05.26
DRAWN BY: TC
CHECKED BY: CP

SHEET NO.

88



Fixture Type	Top	Shade	Weight (lbs)	Height (ft)	Width (ft)	Depth (ft)
Top 1	Shade 1	28	28	28	28	28
Top 2	Shade 2	28	28	28	28	28
Top 3	Shade 3	28	28	28	28	28
Top 4	Shade 4	28	28	28	28	28
Top 5	Shade 5	28	28	28	28	28
Top 6	Shade 6	28	28	28	28	28
Top 7	Shade 7	28	28	28	28	28
Top 8	Shade 8	28	28	28	28	28

PRODUCT SPECIFICATIONS

FINISH

- 3.5 mils electrocoat powder coat
- NLS standard high-quality finishes prevent corrosion, protect against extreme environmental conditions

WARRANTY

- Five-year limited warranty for drivers and LEDs

BUY AMERICAN

To ensure the latest BAA/TA/BA/BA Standards are being met, please select BAA, TA, or BAA in the options section. Please contact the factory before placing an order for any NLS products requiring BAA (Buy American Act), TA (Trade American Act), or BAA (Build America, Buy America).



PRODUCT SPECIFICATIONS

FINISH

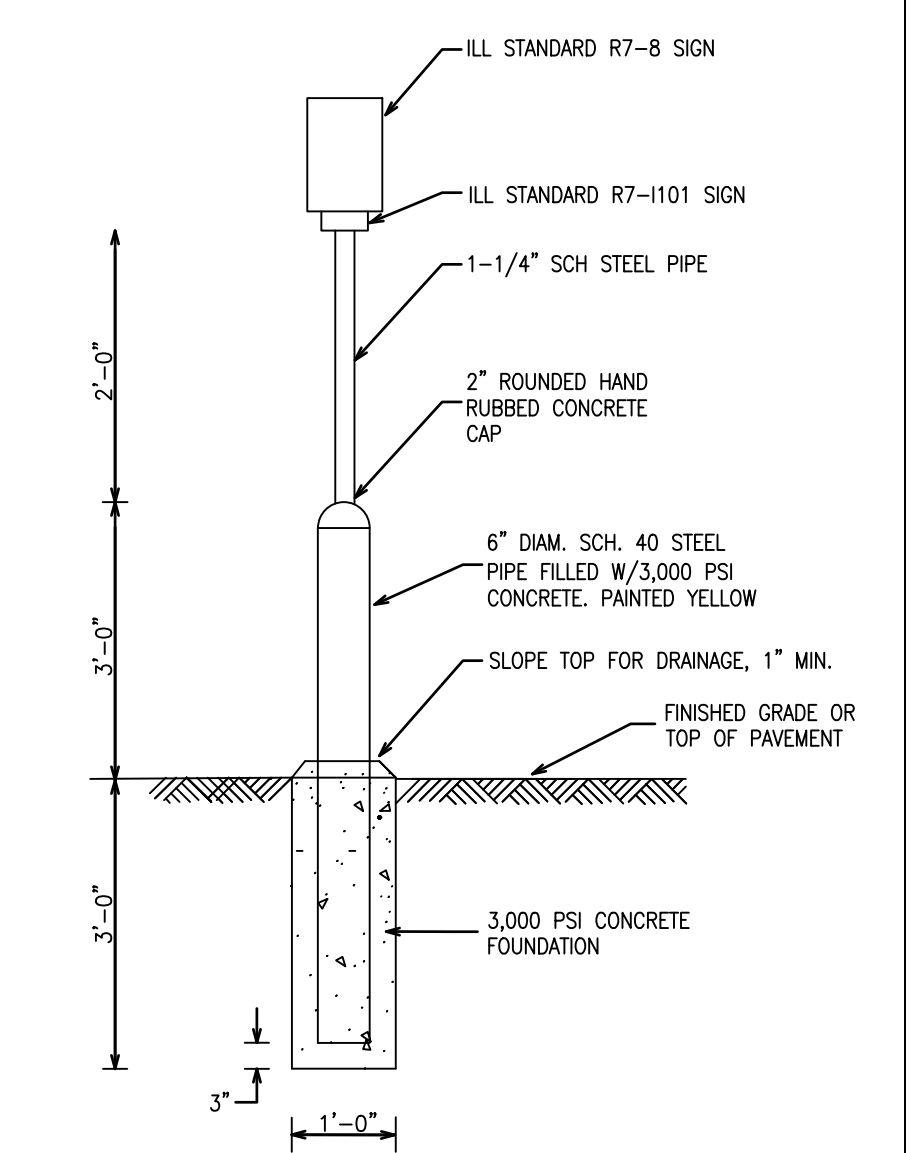
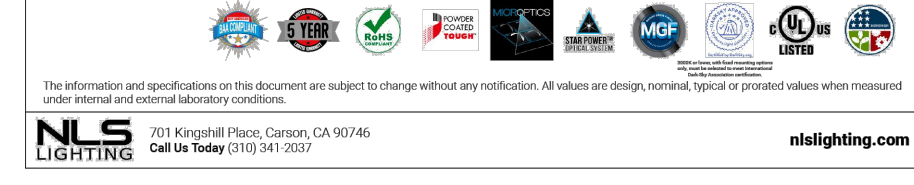
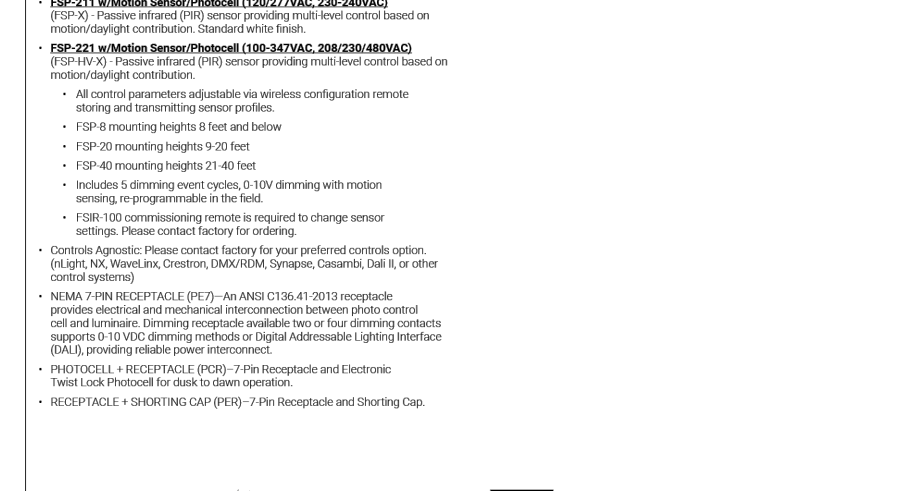
- 3.5 mils electrocoat powder coat
- NLS standard high-quality finishes prevent corrosion, protect against extreme environmental conditions

WARRANTY

- Five-year limited warranty for drivers and LEDs

BUY AMERICAN

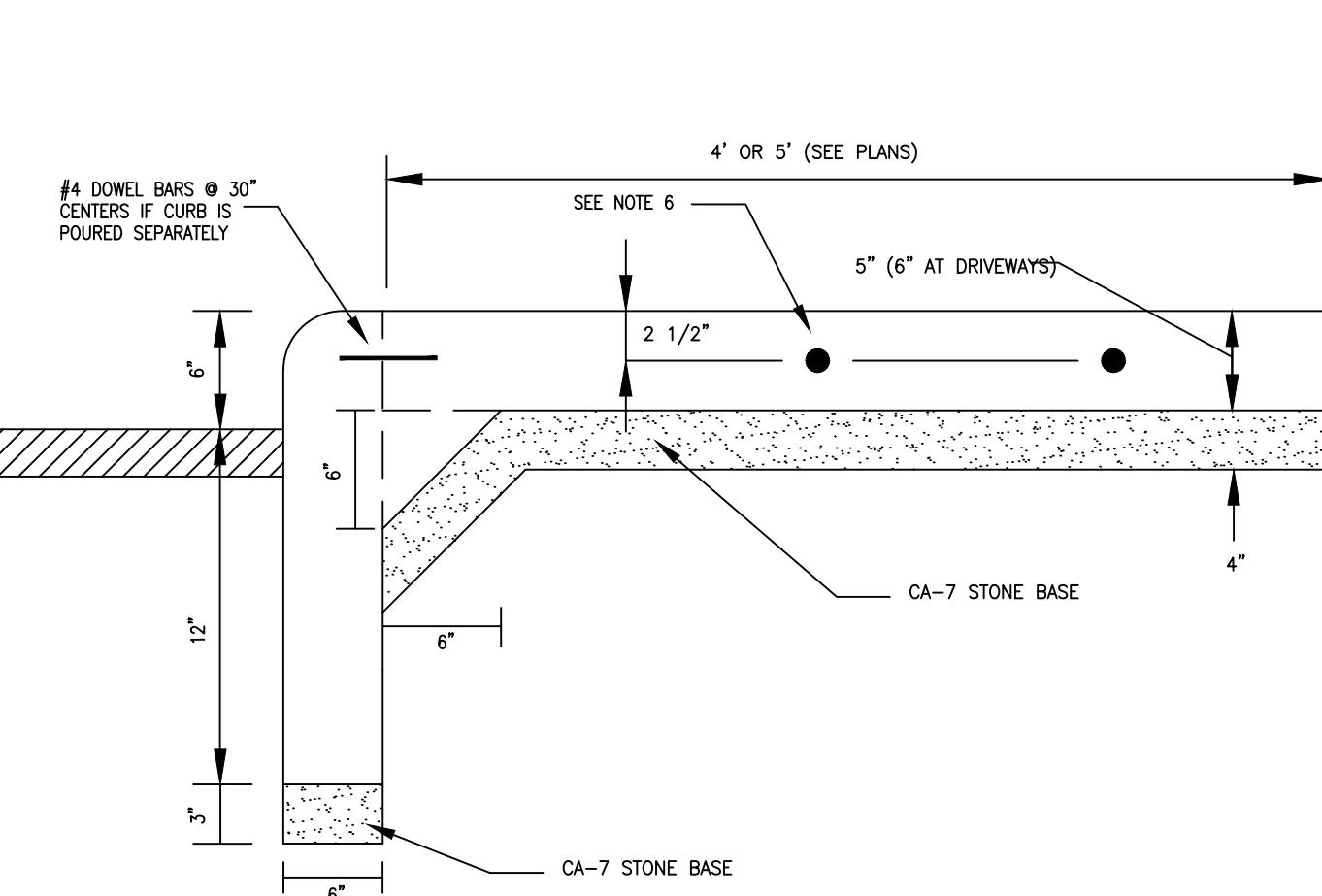
To ensure the latest BAA/TA/BA/BA Standards are being met, please select BAA, TA, or BAA in the options section. Please contact the factory before placing an order for any NLS products requiring BAA (Buy American Act), TA (Trade American Act), or BAA (Build America, Buy America).



- NOTES:**
1. MAINTAIN MINIMUM 2' COVER OVER CONNECTION PIPE
 2. ALL BENDS AND FITTINGS SHALL BE SCHEDULE 40 PVC
 3. SITE CONTRACTOR TO COORDINATE WITH BUILDING CONTRACTOR FOR TERMINATION POINT OF CONNECTION PIPE AND EXTENSION TO DOWNSPOUT.
 4. FITTINGS, BENDS, ETC. SHOWN FOR REFERENCE. CONTRACTOR TO PROVIDE FITTINGS AS NECESSARY.

TYPICAL BOLLARD WITH SIGN

DOWNSPOUT CONNECTION DETAIL



- NOTES:**
1. ALL SIDEWALK SHALL BE CONSTRUCTED WITH IDOT CLASS "SI" CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 3,500 PSI AT 14 DAYS
 2. PREFORMED EXPANSION JOINTS (1/2" THICK) SHALL BE CONSTRUCTED IN SIDEWALK EVERY 50 FEET AND AT ALL ABUTTING DRIVEWAYS AND CURB AND GUTTER.
 3. TOOLED CONTRACTION JOINTS SHALL BE CONSTRUCTED IN SIDEWALK EVERY 50 FEET.
 4. SIDEWALK SHALL HAVE MAXIMUM 1/4" (1:50) PER FOOT CROSS-SLOPE.
 5. W1.4XW1.4 WELDED WIRE MESH SHALL BE INSTALLED AT ALL DRIVEWAY CROSSINGS.
 6. INSTALL #4 BARS (12" LONG), EMBEDDED 6 INCHES, AT ALL CONNECTIONS BETWEEN NEW AND EXISTING SIDEWALKS.

INTEGRAL SIDEWALK/ CURB DETAIL

PRODUCT SPECIFICATIONS

PRODUCT CONFIGURATION

TOPS

TOP 1
Smooth

TOP 2
Alum. Single

TOP 3
Luminous

TOP 4
Luminous

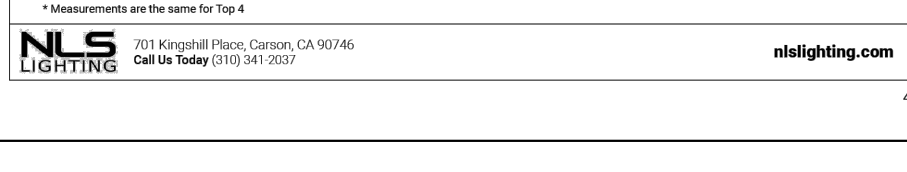
SHADES

SHADE 1
SHADE 2
SHADE 3
SHADE 4
SHADE 5
SHADE 6
SHADE 7
SHADE 8

LED KELVIN RANGE

AMBER 2700K TO CRI
3000K TO CRI
3500K TO CRI
4000K TO CRI
5000K TO CRI

Fixture	Top	Shade	Weight (lbs)	Height (ft)	Width (ft)	Depth (ft)
FIXTURE	TOP 1	SHADE 1	28	28	28	28
FIXTURE	TOP 1	SHADE 2	28	28	28	28
FIXTURE	TOP 1	SHADE 3	28	28	28	28
FIXTURE	TOP 1	SHADE 4	28	28	28	28
FIXTURE	TOP 1	SHADE 5	28	28	28	28
FIXTURE	TOP 1	SHADE 6	28	28	28	28
FIXTURE	TOP 1	SHADE 7	28	28	28	28
FIXTURE	TOP 1	SHADE 8	28	28	28	28



PRODUCT SPECIFICATIONS

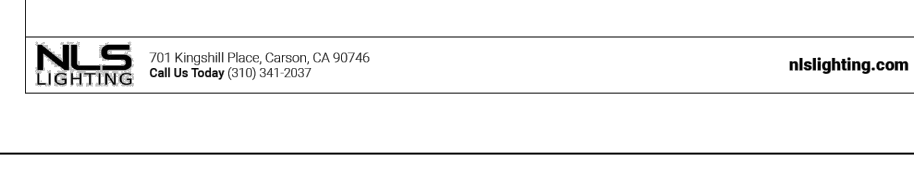
OPTICS

TYPE 1 (TS)
TYPE 2 (TS)
TYPE 3 (TS)
TYPE 4 (TS)
TYPE 5 (TS)
TYPE 6 (TS)
TYPE 7 (TS)
TYPE 8 (TS)
TYPE 9 (TS)
TYPE 10 (TS)
TYPE 11 (TS)
TYPE 12 (TS)
TYPE 13 (TS)
TYPE 14 (TS)
TYPE 15 (TS)
TYPE 16 (TS)
TYPE 17 (TS)
TYPE 18 (TS)

LED KELVIN RANGE

AMBER 2700K TO CRI
3000K TO CRI
3500K TO CRI
4000K TO CRI
5000K TO CRI

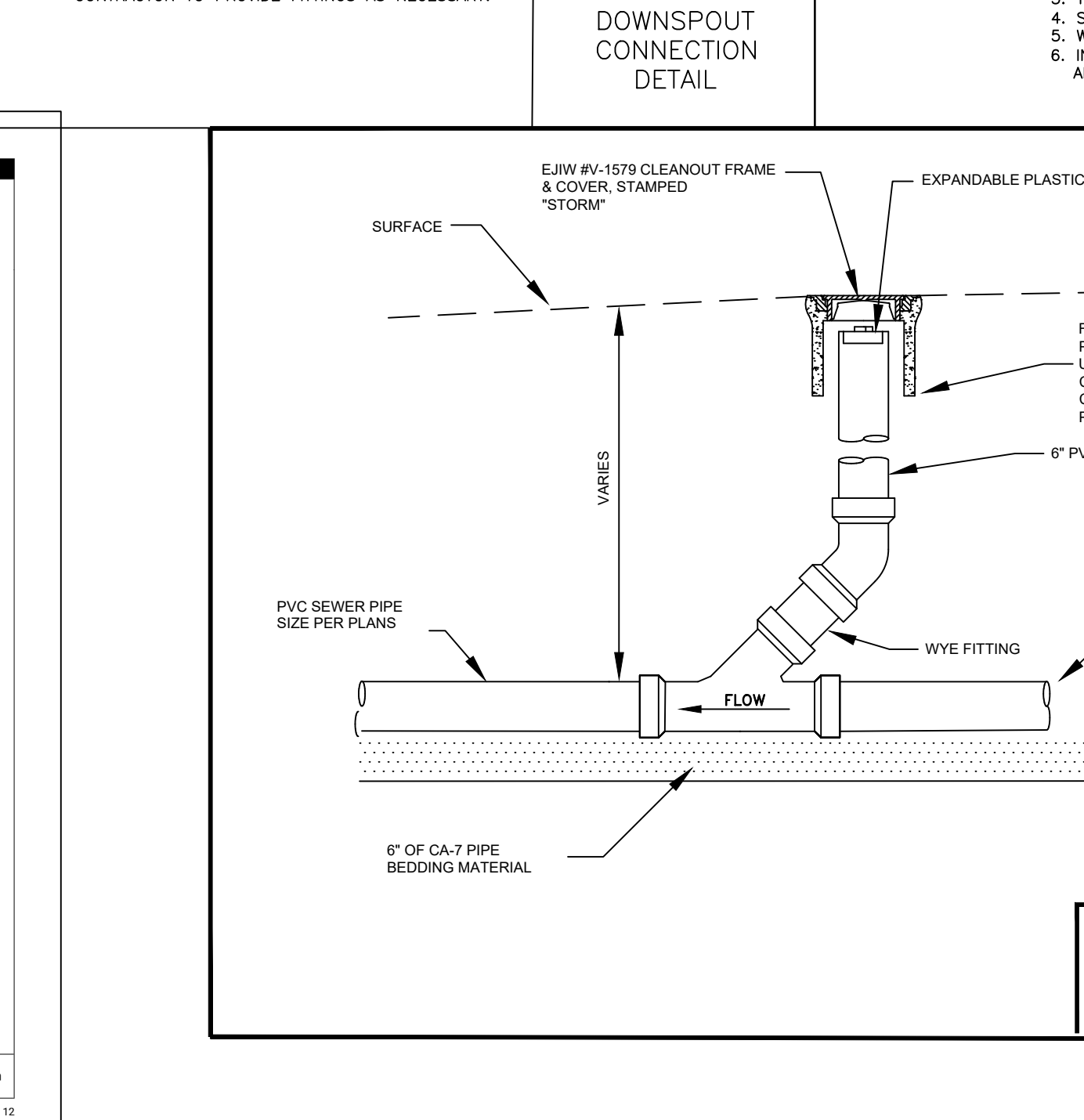
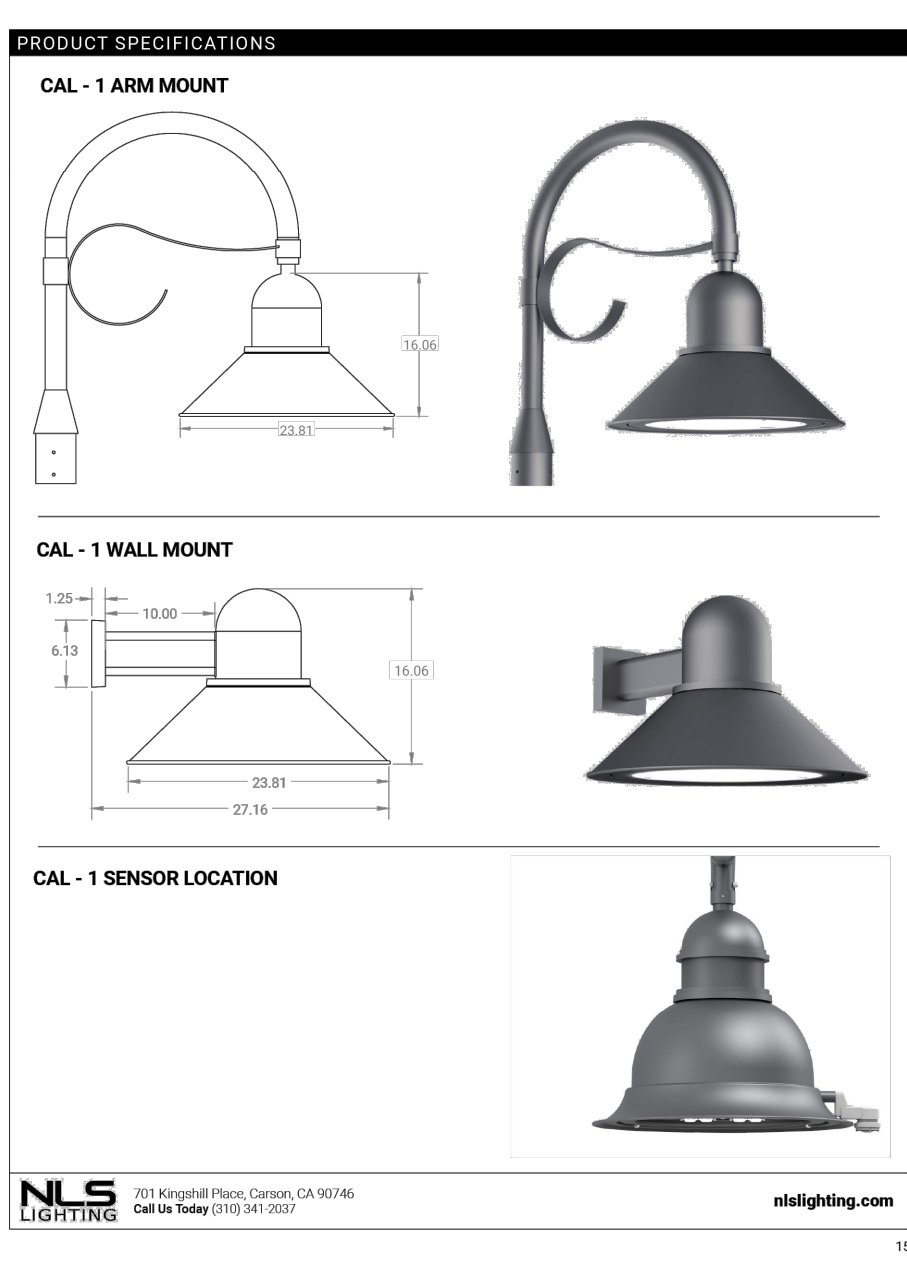
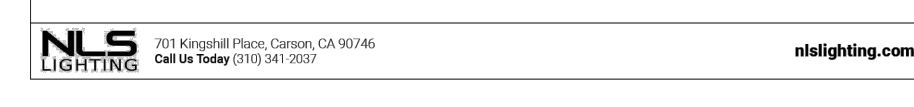
Fixture	Top	Shade	Weight (lbs)	Height (ft)	Width (ft)	Depth (ft)
FIXTURE	TOP 1	SHADE 1	28	28	28	28
FIXTURE	TOP 1	SHADE 2	28	28	28	28
FIXTURE	TOP 1	SHADE 3	28	28	28	28
FIXTURE	TOP 1	SHADE 4	28	28	28	28
FIXTURE	TOP 1	SHADE 5	28	28	28	28
FIXTURE	TOP 1	SHADE 6	28	28	28	28
FIXTURE	TOP 1	SHADE 7	28	28	28	28
FIXTURE	TOP 1	SHADE 8	28	28	28	28



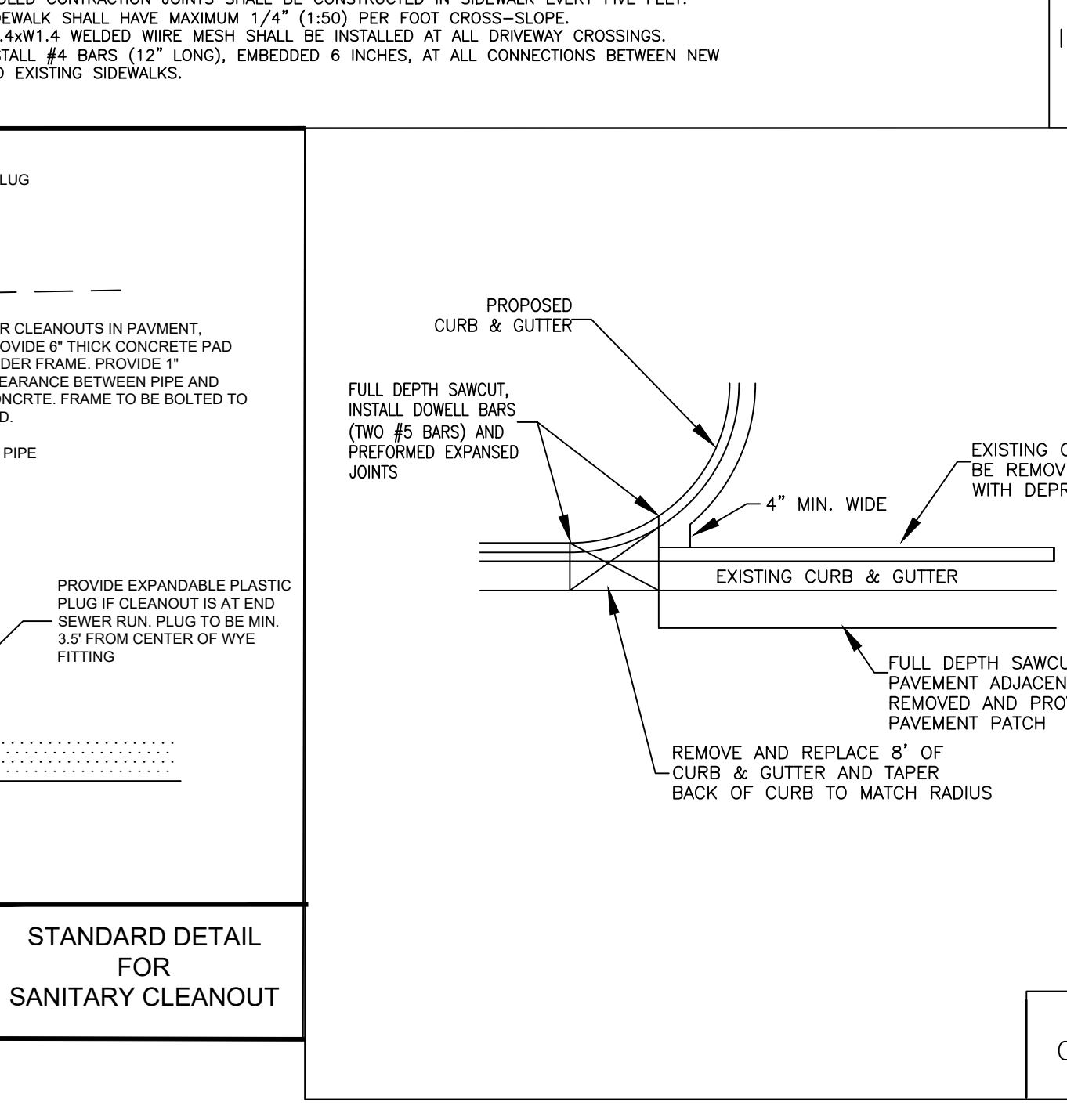
PRODUCT SPECIFICATIONS

CAL - 1 ARM OPTIONS

ARCHITECTURAL ARM 1
ARCHITECTURAL ARM 2
ARCHITECTURAL ARM 3
ARCHITECTURAL ARM 4
ARCHITECTURAL ARM 5
ARCHITECTURAL ARM 6
ARCHITECTURAL ARM 7
ARCHITECTURAL ARM 8
ARCHITECTURAL ARM 9
ARCHITECTURAL ARM 10
ARCHITECTURAL ARM 11
ARCHITECTURAL ARM 12
ARCHITECTURAL ARM 13
ARCHITECTURAL ARM 14
ARCHITECTURAL ARM 15
ARCHITECTURAL ARM 16
ARCHITECTURAL ARM 17
ARCHITECTURAL ARM 18



STANDARD DETAIL FOR SANITARY CLEANOUT



ENTRANCE CURB CONNECTION DETAIL NOT TO SCALE

NO.	DATE	REVISION
1	03.05.26	INITIAL SUBMITTAL PER VILLAGE

RENWICK ROAD PLAZA
788-800 S. WEBER RD.
ROMEOVILLE, WILL COUNTY, IL

GEOTECH INC.
CONSULTING ENGINEERS - LAND SURVEYORS
1207 CEDARWOOD DRIVE CREST HILL, ILLINOIS 60403 815/730-1010

PROJECT NO. 21999
DATE: 03.05.26
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SHEET NO.
9

GENERAL SPECIFICATIONS:

- DEFINITION OF TERMS:
 - "CLIENT" SHALL MEAN THE PERSON OR ENTITY WITH WHOM GEOTECH INCORPORATED HAS CONTRACTED WITH TO PREPARE CIVIL ENGINEERING PLANS AND SPECIFICATIONS.
 - "ENGINEER" SHALL MEAN GEOTECH INCORPORATED.
 - "PLANS" SHALL MEAN THE CIVIL ENGINEERING PLANS AND SPECIFICATION PREPARED BY THE ENGINEER.
 - "CONTRACTOR" SHALL MEAN ANY ENTITY PERFORMING ANY WORK DESCRIBED IN THE PLANS.
 - "JURISDICTIONAL ENTITY" SHALL MEAN ANY MUNICIPAL, COUNTY, STATE, OR FEDERAL UNIT OF GOVERNMENT FROM WHOM AN APPROVAL, PERMIT, AND/OR REVIEW IS REQUIRED FOR ANY ASPECT OF THE PROJECT.
- CONTRACTOR ACKNOWLEDGES AND AGREES THAT THE USE AND RELIANCE OF THE PLANS IS SUFFICIENT CONSIDERATION FOR CONTRACTOR'S COVENANTS STATE HEREIN.
- NO CONSTRUCTION PLAN SHALL BE USED FOR CONSTRUCTION UNLESS SPECIFICALLY MARKED "FOR CONSTRUCTION". PRIOR TO COMMENCEMENT OF CONSTRUCTION THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THE WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IN ADDITION, THE CONTRACTOR MUST VERIFY THE ENGINEER'S LINE AND GRADE STAKES. IF THERE ARE ANY DISCREPANCIES WITH WHAT IS SHOWN ON THE CONSTRUCTION PLANS, THE CONTRACTOR MUST IMMEDIATELY REPORT SAME TO ENGINEER BEFORE DOING ANY WORK. OTHERWISE THE CONTRACTOR ASSUMES FULL RESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, SPECIFICATIONS, AND/OR DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AGREED BY OMISSIONS OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT THEIR OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTIONS ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.
- ALL WORK HEREIN PROPOSED SHALL BE COMPLETED IN ACCORDANCE WITH ALL REQUIREMENTS OF ANY JURISDICTIONAL ENTITY, AND ALL SUCH PERTINENT LAWS, DIRECTIVES, ORDINANCES AND THE LIKE SHALL BE CONSIDERED TO BE A PART OF THESE PLANS. IF A DISCREPANCY IS NOTED BETWEEN THE PLANS AND REQUIREMENTS OF ANY JURISDICTIONAL ENTITY, THE CLIENT AND/OR CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.
- CONSTRUCTION OF WORK PROPOSED BY THE PLANS SHALL BE COMPLETED IN ACCORDANCE WITH, AND MATERIALS USED SHALL BE IN COMPLIANCE WITH, THE METHODS AND MATERIALS REQUIRED IN THE APPROPRIATE SECTIONS OF THE LATEST EDITIONS OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS" AND "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS".
- WHEN THE PLANS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF EXISTING UNDERGROUND FACILITIES AND UTILITIES, SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE ENGINEER AS TO THE APPROXIMATE LOCATION AND ELEVATION OF SUCH FACILITIES AND UTILITIES. AT THE LOCATIONS WHEREIN DETAILED POSITIONS OF THESE FACILITIES AND UTILITIES BECOME NECESSARY FOR NEW CONSTRUCTION, INCLUDING ALL POINTS OF CONNECTION, THE CONTRACTOR SHALL FURNISH ALL LABOR AND TOOLS TO VERIFY DEFINITELY ESTABLISH THE HORIZONTAL LOCATION, ELEVATION, SIZE, AND MATERIAL OF THE FACILITIES AND UTILITIES. CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO CONSTRUCTION IF ANY DISCREPANCIES IN EXISTING INFORMATION OR CONFLICTS WITH EXISTING UTILITIES EXIST. ENGINEER ASSUMES NO RESPONSIBILITY WHATSOEVER WITH RESPECT TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS RELATIVE TO THE LOCATION OF UNDERGROUND FACILITIES AND UTILITIES, NOR THE MANNER IN WHICH THEY ARE REMOVED OR ADJUSTED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY PRIOR TO CONSTRUCTION TO NOTIFY ALL UTILITY COMPANIES OF THE INTENT TO BEGIN CONSTRUCTION AND TO VERIFY THE ACTUAL LOCATION OF SUCH FACILITIES AND UTILITIES. THE CONTRACTOR SHALL ALSO OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES THE WORKING SCHEDULE FOR REMOVING OR ADJUSTING THESE FACILITIES.
- THE PLANS HAVE BEEN PREPARED BY THE ENGINEER BASED ON THE ASSUMPTION THAT EXISTING OR MODIFIED SOIL CONDITIONS ARE SUITABLE TO SUPPORT THE PROPOSED IMPROVEMENTS SHOWN. THE CLIENT AND/OR CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY OBSTRUCTIONS OR UNSUITABLE MATERIAL ARE DISCOVERED THAT PREVENTS THE INSTALLATION OF THE IMPROVEMENTS AS SHOWN ON THE PLANS. THE CLIENT, AT THEIR DISCRETION SHALL RETAIN A GEOTECHNICAL ENGINEER, TO ENSURE THE SOIL CONDITIONS ARE SUITABLE TO SUPPORT THE PROPOSED IMPROVEMENTS.
- DUE TO THE UNCERTAINTY OF SEASONAL GROUND WATER TABLES AND THE GEOPHYSICAL CONDITIONS AFFECTING GROUND WATER MOVEMENT, THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE MANAGEMENT OF GROUND WATER ASSOCIATED WITH SUBGRADE CONSTRUCTION, UNDERGROUND UTILITIES, BASEMENTS, OR OTHER SIMILAR FACILITIES CONSTRUCTED BELOW FINISHED GRADE ARE AT THE RISK OF THE CLIENT. CLIENT SHALL COORDINATE WITH CONTRACTOR, ARCHITECT, AND/OR SOILS ENGINEER TO MITIGATE THE POTENTIAL IMPACT OF GROUND WATER ON THE PROPOSED IMPROVEMENTS.
- TREES NOT SCHEDULED TO BE REMOVED SHALL BE PROTECTED FROM DAMAGE. TREES SHALL NOT BE REMOVED UNLESS REQUESTED BY THE CLIENT.
- THE CONTRACTOR SHALL PROVIDE ALL SIGNS, EQUIPMENT, AND PERSONNEL NECESSARY TO PROVIDE FOR SAFE AND EFFICIENT TRAFFIC FLOW. THE CONTRACTOR SHALL INTERFERE, INTERRUPT, OR CAUSE TO CHANGE IN ANY FLOW OF THE CONDITIONS OF TRAFFIC FLOW THAT EXISTED PRIOR TO THE START OF WORK. EMERGENCY VEHICLE ACCESS SHALL BE MAINTAINED AT ALL TIMES.
- THE CONTRACTOR, HIS AGENTS AN EMPLOYEES, AND ALL EQUIPMENT, MACHINERY AND VEHICLES SHALL CONFINE THEIR WORK WITH THE BOUNDARIES OF THE PROJECT OR WORK AREA. THE CONTRACTOR SHALL BE SOLELY LIABLE FOR DAMAGE CAUSED BY THEIR AGENTS, EMPLOYEES, EQUIPMENT, MACHINERY, AND VEHICLES ON ADJACENT PROPERTIES OR AREAS OUTSIDE DESIGNATED WORK AREAS.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO ARRANGE FOR THE RELOCATION OR BRACING OF EXISTING UTILITY POLES THAT ARE WITHIN THE LIMITS OF THE CONTRACT. ALL WORK AND COSTS CONNECTED WITH THE RELOCATION OR MAINTENANCE SHALL BE THE RESPONSIBILITY OF THE CLIENT OR CONTRACTOR.
- RESTORATION OF DAMAGE TO PUBLIC OR PRIVATE PROPERTY OUTSIDE THE LIMITS OF THE PROJECT SHALL BE PERFORMED IMMEDIATELY UPON COMPLETION OF THE WORK. AREAS SHALL BE RESTORED AS NEARLY AS POSSIBLE TO THEIR ORIGINAL CONDITION OR BETTER AND SHALL INCLUDE BUT NOT LIMITED TO: MAINTAINED LAWNS AND RIGHT-OF-WAYS, ROADWAYS, DITCHES, SIDEWALKS, PAVEMENTS, LANDSCAPING, TREES, FENCES, MAILBOXES, SEWERS, WATER MAINS, ETC.
- CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING THE PERFORMANCE OF THE WORK. THE REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS AND REGULATIONS RELATING TO THE SAFETY OF PERSONS OR PROPERTY, OR TO THE PROTECTION OF PERSONS OR PROPERTY FROM DAMAGE, INJURY, OR LOSS, AND SHALL ERRECT AND MAINTAIN ALL NECESSARY SAFEGUARDS FOR SUCH SAFETY AND PROTECTION. THE DUTIES OF THE ENGINEER DO NOT INCLUDE REVIEW OF THE ADEQUACY OF EITHER THE CONTRACTOR'S OR THE GENERAL PUBLIC'S SAFETY IN, ON, OR NEAR THE CONSTRUCTION SITE.
- CONTRACTOR SHALL AT ALL TIMES KEEP THE SITE FREE FROM ACCUMULATION OF CONSTRUCTION DEBRIS, WASTE MATERIAL, TRASH, OILS, AND OTHER MISCELLANEOUS ITEMS. ADJACENT ROADWAYS SHALL BE KEPT FREE OF MUD AND DEBRIS AT ALL TIMES. UTILITY STRUCTURES AND CURB FLOW LINES SHALL BE CLEANED OF DEBRIS.
- FOR DISTURBANCES EXCEEDING ONE ACRE, A NOTICE OF INTENT SHALL BE SUBMITTED BY THE ENGINEER TO OBTAIN THE NECESSARY AUTHORITY OVER THE RESPONSIBILITY FOR THE METHODS, TECHNIQUES, AND PROCEDURES OF THE ACTIVITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ALL INSPECTIONS AND RECORD KEEPING REQUIRED AS PART OF THE NPDES PERMIT.
- CONTRACTOR SHALL ADJUST ALL STRUCTURES TO EITHER EXISTING OR PROPOSED ELEVATIONS. ADJUSTMENTS SHALL BE CONSIDERED INCIDENTAL. ADJUSTMENTS TO FINISHED GRADE WILL NOT ALLEViate THE CONTRACTOR FROM A ANY ADDITIONAL ADJUSTMENTS AS REQUIRED DURING FINAL INSPECTION.
- THE VILLAGE/CITY SHALL BE NOTIFIED WHEN EXISTING FLOOD DRAINAGE TILES ARE ENCOUNTERED DURING CONSTRUCTION REGARDLESS OF CONDITION OR FUNCTIONALITY. THE VILLAGE/CITY SHALL HAVE FINAL APPROVAL OF ANY REPAIR, CONNECTION, ABANDONMENT, OR OTHER METHODS FOR MITIGATING EXISTING DRAINAGE TILES ENCOUNTERED ON SITE. CONTRACTOR SHALL KEEP A RECORD OF ALL SIZES AND LOCATIONS OF ENCOUNTERED FLOOD DRAINAGE TILES.
- ALL PROPOSED ELEVATIONS SHOWN ON THE PLANS ARE FINISHED SURFACE ELEVATIONS, UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR SHALL PRESERVE ALL CONSTRUCTION STAKES UNTIL THEY ARE NO LONGER NEEDED, ANY STAKES DESTROYED OR DISTURBED BY THE CONTRACTOR PRIOR TO THEIR USE SHALL BE RESET BY THE ENGINEER AT CONTRACTOR'S COST.
- ANY EXISTING SIGNS, LIGHT STANDARDS, AND/OR UTILITY POLES WHICH INTERFERE WITH CONSTRUCTION OPERATIONS AND NOT NOTED FOR DISPOSAL SHALL BE REMOVED AND RESET BY THE CONTRACTOR, WHICH SHALL BE CONSIDERED INCIDENTAL. ANY DAMAGE TO THESE ITEMS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT THEIR EXPENSE. ANY SIGNS NOT REQUIRED TO BE RESET SHALL BE DELIVERED TO THE RESPECTIVE OWNERS.
- ANY DETERIORATION OF SEWER AND WATER TRENCHES AS WELL AS TEMPORARY SHEETING OR BRACING THAT MAY BE REQUIRED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL NOT BE CONSIDERED EXTRA WORK. IN THE EVENT THAT SOFT MATERIALS WITH UNCONFINED COMPRESSIVE STRENGTH LESS THAN 0.5 TSF ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL (UPON APPROVAL OF THE CLIENT AND/OR ENGINEER) OVER-EXCAVATE TO A DEPTH OF ONE (1) FOOT BELOW THE BOTTOM OF THE PIPE AND BACKFILL WITH COMPACTED CRUSHED STONE, PROPERLY FORMED TO FIT THE BOTTOM OF THE PIPE.
- CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER 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 OBLIGATIONS AGAINST THE ENGINEER BY ANY EMPLOYEE OF THE CONTRACTOR, OR ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY THE CONTRACTOR, OR ANYONE WHOSE ACTS THE CONTRACTOR MAY BE LIABLE. THE INDEMNIFICATION OBLIGATION SHALL NOT BE LIMITED IN ANY WAY BY ANY LIMITATION ON THE AMOUNT OF DAMAGES OR BENEFITS PAYABLE BY, OR FOR THE CONTRACTOR UNDER WORKER'S COMPENSATION ACTS, DISABILITY BENEFIT ACTS OR OTHER EMPLOYEE BENEFIT ACTS.
- CONTRACTOR SHALL MAINTAIN COMPREHENSIVE GENERAL LIABILITY INSURANCE, WORKER'S COMPENSATION AND EMPLOYER'S LIABILITY INSURANCE, AND COMPREHENSIVE AUTOMOBILE LIABILITY INSURANCE TO 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 WHOSE ACTS THE CONTRACTOR MAY BE LIABLE. THE ENGINEER SHALL BE NAMED AS ADDITIONAL INSURED ON THE POLICIES.
- THE ENGINEER SHALL NOT SUPERVISE, DIRECT, OR HAVE CONTROL OVER THE CONTRACTOR'S WORK, NOR SHALL THE ENGINEER BE RESPONSIBLE FOR THE ALLOCATION OF THE RESPONSIBILITY FOR THE METHODS, TECHNIQUES, AND PROCEDURES, OR PROCEDURES PRELATED BY THE CONTRACTOR TO COMPLETE THE WORK. ENGINEER SHALL NOT BE RESPONSIBLE FOR THE SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL TO THE WORK OF THE CONTRACTOR FOR ANY FAILURE OF THE CONTRACTOR TO COMPLY WITH THE LAWS, RULES, REGULATIONS, ORDINANCES, CODES, OR ORDERS APPLICABLE TO THE CONTRACTOR FURNISHING AND PERFORMING THEIR WORK.

DEMOLITION:

- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR THE DEMOLITION WORK AND DISPOSAL OF WASTE MATERIAL. ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE FOR DEMOLITION, REMOVAL, AND DISPOSAL OF ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, ROAD, PARKING LOTS, DRIVEWAYS, UTILITIES, ETC. SUCH THAT THE IMPROVEMENTS SHOWN ON THE PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO THE PROPOSED SUB-GRADE ELEVATION WITH SUITABLE COMPACTED MATERIAL.
- ALL EXISTING UTILITY LINES AND CONDUITS LOCATED UNDER PROPOSED BUILDINGS, ROADWAYS, DRIVES, PAVEMENT AREAS, OR SIDEWALKS SHALL BE REMOVED AND PROPERLY BACKFILLED WITH SUITABLE COMPACTED MATERIAL. ALL EXISTING UTILITY LINES UNDER PROPOSED LANDSCAPE AREAS SHALL BE LEFT IN PLACE AND PLUGGED AT ALL STRUCTURES. ALL EXISTING STRUCTURES SHALL BE REMOVED AND BACKFILLED WITH SUITABLE COMPACTED MATERIAL. CONTRACTOR SHALL COORDINATE ACTIVITIES WITH THE APPROPRIATE UTILITY COMPANY.
- CONTRACTOR SHALL COORDINATE WITH JURISDICTIONAL ENTITY AND UTILITY COMPANIES REGARDING THE REMOVAL OF SERVICE LINES. CONTRACTOR IS RESPONSIBLE FOR ALL FEES AND CHARGES ASSOCIATED WITH DISCONNECTION OF EXISTING SERVICES.
- REMOVAL AND/OR ABANDONMENT OF ANY WELLS, SEPTIC TANKS AND/OR FIELDS, AND GREASE TRAPS SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPROPRIATE JURISDICTIONAL ENTITY.
- CONTRACTOR SHALL DEVELOP AND MAINTAIN A DUST CONTROL PLAN IN ACCORDANCE WITH JURISDICTIONAL ENTITY REQUIREMENTS.
- CONTRACTOR SHALL COORDINATE WITH JURISDICTIONAL ENTITY AND CLIENT TO ENSURE PROTECTION AND MAINTENANCE OF SANITARY AND WATER UTILITIES AS NECESSARY AND PROVIDE STORM WATER CONVEYANCE UNTIL NEW FACILITIES ARE CONSTRUCTED, TESTED, AND PLACED IN OPERATION.

EARTHWORK:

- COPIES OF SOIL BORINGS AND REPORTS, IF SUCH BORINGS WERE TAKEN BY THE CLIENT, SHOULD BE MADE AVAILABLE BY THE CLIENT TO THE ENGINEER AND CONTRACTOR. THESE BORINGS ARE PRESENTED FOR WHATEVER PURPOSE THE CONTRACTOR CHOOSES TO MAKE OF THEM. THE ENGINEER MAKES NO REPRESENTATIONS OR WARRANTY REGARDING THE NUMBER, LOCATION, SPACING, OR DEPTH OF BORINGS TAKEN, NOR OF THE ACCURACY OR RELIABILITY OF THE INFORMATION GIVEN IN THE RESULTS THEREOF.
- FURTHER, THE ENGINEER DOES NOT ASSUME RESPONSIBILITY FOR THE POSSIBILITY THAT DURING CONSTRUCTION, THE SOIL AND GROUNDWATER CONDITIONS MAY BE DIFFERENT THAN INDICATED. NEITHER DOES THE ENGINEER ASSUME RESPONSIBILITY FOR VARIATIONS OF SOIL AND GROUNDWATER AT LOCATIONS BETWEEN BORINGS. THE CONTRACTOR MAY AT THEIR DISCRETION AND COST OBTAIN ITS OWN BORINGS, EXPLORATIONS, AND OBSERVATIONS TO DETERMINE SOIL AND GROUND WATER CONDITIONS.
- THE SITE SHALL BE CLEARED, GRUBBED, AND TREES AND STUMPS REMOVED WHERE DESIGNATED ON THE PLANS OR SPECIFIED BY THE CLIENT. TREES DESIGNATED TO REMAIN SHALL BE PROTECTED FROM DAMAGE.
- UPON COMPLETION OF DEMOLITION AND SITE CLEARING, ALL TOPSOIL, ORGANIC MATERIAL, OR OTHER UNSUITABLE MATERIAL SHALL BE STRIPPED FROM AREAS REQUIRING STRUCTURAL FILL. STRIPPED MATERIAL SHALL BE PLACED IN STOCKPILES IN CLIENT DESIGNATED AREAS FOR FUTURE USE WITHIN AREAS TO BE LANDSCAPED AND FILL IN AREAS NOT REQUIRING STRUCTURAL FILL. EXCESS STRIPPED MATERIAL SHALL BE COMPLETELY REMOVED FROM THE SITE AND DISPOSED OF OFF-SITE BY THE CONTRACTOR.
- ALL SUITABLE EXCAVATED MATERIALS SHALL BE HAULED, PLACED (MOISTURE CONDITIONED IF NECESSARY) AND COMPACTED IN FILL AREAS. CONTRACTOR SHALL INCLUDE ALL WEIGHING, TEMPORARY DITCHES AND CULVERTS NECESSARY TO COMPLETE THE EXCAVATION AND FILL WORK.
- EXCAVATION AND PLACEMENT OF SUITABLE FILL MATERIAL SHALL BE WITHIN THE PROJECT LIMITS AND TO THE SUBGRADE ELEVATIONS PROVIDED ON THE PLANS. FILL MATERIAL SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING EIGHT (8) INCHES IN THICKNESS AND THE WATER CONTENT SHALL BE ADJUSTED TO ACHIEVE REQUIRED COMPACTION. IN AREAS REQUIRING STRUCTURAL FILL, FILL MATERIAL SHALL NOT BE PLACED OVER TOPSOIL OR OTHER UNSUITABLE MATERIAL.
- COMPACTION OF EXCAVATED MATERIAL AND OTHER SUITABLE MATERIAL SHALL BE AT LEAST 95% OF THE STANDARD PROCTOR DRY DENSITY WITH STRUCTURAL FILL AREAS (BUILDING PAD, PAVEMENT, SIDEWALK, ETC.) AND 90% OF THE STANDARD PROCTOR DRY DENSITY FOR NON-STRUCTURAL AREAS (GRASS, LANDSCAPE, YARDS, ETC.).
- UNSUITABLE MATERIAL SHALL BE CONSIDERED AS MATERIAL WHICH IS NOT SUITABLE FOR THE SUPPORT OF PAVEMENT AND BUILDING CONSTRUCTION. IF ENCOUNTERED BELOW NORMAL TOPSOIL DEPTHS AND/OR PROPOSED SUBGRADE ELEVATIONS IT SHALL BE REMOVED AND REPLACED WITH MATERIAL APPROVED BY THE SOILS CONSULTANT. THE DESIGN TO REMOVE SAID MATERIAL AND TO WHAT EXTENT SHALL BE MADE BY A SOILS CONSULTANT AND THE CLIENT.
- THE CLIENT SHALL, AT THEIR DISCRETION, EMPLOY A SOILS CONSULTANT AND TESTING FIRM TO ENSURE THE EXCAVATED AND FILL MATERIALS ARE PROPERLY CONSTRUCTED TO SUPPORT THE PROPOSED IMPROVEMENTS. THE ENGINEER DOES NOT ASSUME ANY RESPONSIBILITY REGARDING THE SUITABILITY OF THE SOIL TO SUPPORT THE PROPOSED IMPROVEMENTS.
- UPON COMPLETION OF EXCAVATION AND SHAPING OF STORM WATER DETENTION AREAS INTENDED TO MAINTAIN A PERMANENT POOL OF WATER, ALL SILT SEAMS AND GRANULAR OR SANDY SOILS SHALL BE REMOVED TO A MINIMUM DEPTH OF THREE FEET BELOW THE SUBGRADE AND REPLACED WITH AN IMPERMEABLE CLAY LINER, INCLUDING ADJACENT TO AND UNDER STORM SEWER INLETS AND OUTLETS. IT IS THE INTENT OF THESE PLANS THAT THE CONTRACTOR SHALL PREPARE THE POND BOTTOMS, SIDE SLOPES, AND COMPACTION THEREOF SUCH THAT THE PONDS WILL MAINTAIN THE PROPOSED NORMAL WATER LEVELS.

THE CONTRACTOR SHALL:

- MAINTAIN POSITIVE SITE DRAINAGE AT ALL TIMES DURING CONSTRUCTION AND PREVENT STORM WATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS.
- SPREAD AND COMPACT UNIFORMLY ALL EXCESS TRENCH SPOILS AFTER COMPLETION OF THE UNDERGROUND UTILITIES.
- SCARIFY AND COMPACT THE UPPER TWELVE (12) INCHES OF THE SUITABLE SUBGRADE MATERIAL IN ALL AREAS EXCAVATED AND FILL THAT MAY BE SOFT DUE TO EXCESS MOISTURE CONTENT.
- PROVIDE WATER TO ADD TO DRY MATERIAL IN ORDER TO ADJUST MOISTURE CONTENT FOR THE PURPOSE OF ACHIEVING THE SPECIFIED COMPACTION.
- BACKFILL THE CURB AND GUTTER AFTER ITS CONSTRUCTION AND PRIOR TO THE PLACEMENT OF BASE COURSE MATERIAL.
- IMPLEMENT AND MAINTAIN SOIL EROSION CONTROL MEASURES PROVIDED ON THE PLANS.
- LIME STABILIZE THE SUBGRADE MATERIAL IF REQUIRED BY THE SOILS CONSULTANT AND CLIENT.

- CONTRACTOR SHALL PROVIDE TESTING AND PROOF-ROLLING AS REQUIRED BY THE CLIENT AND JURISDICTIONAL ENTITY. ANY UNSUITABLE AREAS ENCOUNTERED DURING TESTING SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL APPROVED BY THE SOILS CONSULTANT AND RETESTED.

SEWER AND WATER MAIN GENERAL NOTES:

- ALL SANITARY SEWERS, STORM SEWERS, WATER MAINS AS WELL AS THEIR SERVICES AND OTHER RELATED APPURTENANCES SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS" AND "DOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" IN ADDITION TO THE REQUIREMENTS OF THE APPLICABLE JURISDICTIONAL ENTITY.
- SELECT GRANULAR TRENCH BACKFILL (DOT CA-7) SHALL BE REQUIRED FOR ALL SEWER AND WATER MAIN TRENCHES LYING UNDER EXISTING OR PROPOSED STREETS, DRIVEWAYS, PARKING LOTS, CURB AND GUTTER, SIDEWALKS, AND WITHIN TWO FEET THEREOF, AND WHERE NOTED ON PLANS.
- TRENCH EXCAVATION, BEDDING, HAUNCHING, AND INITIAL BACKFILL (DOT CA-7) FOR TRENCHES SHALL BE PROVIDED IN ACCORDANCE WITH THE APPLICABLE TRENCH SECTION DETAIL AND SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE PIPE.
- UNSUITABLE SOIL CONDITIONS BELOW THE DEPTH OF THE TRENCH BEDDING, AS DETERMINED BY THE SOILS/GEOTECHNICAL ENGINEER, ENCOUNTERED DURING TRENCH EXCAVATION SHALL BE REMOVED AND REPLACED WITH GRANULAR COMPACTED BEDDING MATERIAL AS DIRECTED BY THE SOILS/GEOTECHNICAL ENGINEER OR JURISDICTIONAL ENTITY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ANY TRENCH EXCAVATIONS FOR THE INSTALLATION OF UNDERGROUND MAINS AND APPURTENANCES. DETERIORATION SHALL BE CONSIDERED INCIDENTAL.
- NON-SHEAR "BAND-SEAL" OR SIMILAR FLEXIBLE TYPE COUPLINGS SHALL BE USED WHEN CONNECTING SEWER PIPES OF DISSIMILAR MATERIAL.
- CONTRACTOR SHALL MARK THE LOCATIONS OF THE ENDS OF SERVICE STUBS WITH 4"x4" WOOD POSTS EXTENDING A MINIMUM OF THREE FEET ABOVE THE GROUND. THE TOP OF THE POSTS SHALL BE PAINTED GREEN FOR SANITARY, WHITE FOR STORM, AND BLUE FOR WATER. CONTRACTOR SHALL KEEP ACCURATE RECORDS OF SERVICE CONNECTION LOCATIONS, INCLUDING DISTANCES FROM DOWNSTREAM MANHOLES FOR SANITARY SERVICES. ALL STUBS SHALL BE PROPERLY PLUGGED.
- FOR UTILITY STRUCTURES REQUIRING ADJUSTMENT, A MINIMUM OF TWO ADJUSTING RINGS (MIN. 6" ADJUSTING HEIGHT) AND MINIMUM OF TWO ADJUSTING RINGS (MIN. 12" ADJUSTING HEIGHT). NO 18" OR 24" CONCRETE RINGS ARE ALLOWED. UNDER PAVED AREAS, TOP RING SHOULD BE RUBBER. USE ONE (1) E/1W INFR-RESR RUBBER COMPOSITE.
- ALL SANITARY SEWERS, STORM SEWERS, WATER MAIN AS WELL AS THEIR SERVICES AND OTHER RELATED APPURTENANCES SHALL BE THOROUGHLY CLEANED PRIOR TO INSPECTION AND TESTING AND AT THE END OF THE PROJECT.
- CONTRACTOR SHALL COORDINATE INSPECTIONS, TESTING, AND TELEVISION WITH THE APPLICABLE JURISDICTIONAL ENTITY. THE COST OF CLEANING, TESTING, AND TELEVISION SHALL BE CONSIDERED INCIDENTAL.
- ALL DEFICIENCIES AND DEFECTS OBSERVED AS WELL AS ANY NECESSARY CORRECTIVE WORK REQUIRED AS A RESULT OF TESTING OR TELEVISION INSPECTION SHALL BE PERFORMED BY THE CONTRACTOR AT NO ADDITIONAL COST AND WITHOUT DELAY. ALL DIPS, CRACKS, LEAKS, IMPROPERLY SEALED JOINTS AND DEPARTURES FROM THE APPROVED GRADES AND ELEVATIONS SHALL BE REPAIRED BY SEALING AND REPLACING THE INVOLVED SECTIONS OF PIPE. UPON COMPLETION THEREOF, THE SEWER SHALL BE RETESTED AND/OR RE-TESTED.

LIGHTING:

- ALL WORK SHALL CONFORM WITH THE NATIONAL ELECTRIC CODE, COMMONWEALTH EDISON POLICES, AND THE APPLICABLE REGULATIONS OF THE JURISDICTIONAL ENTITY.
- PLANS SHOW LOCATION OF LIGHT POLES ONLY. THE DESIGN OF THE ELECTRIC SYSTEM REQUIRED TO POWER THE LIGHTS SHALL BY OTHERS.
- CLIENT SHALL BE RESPONSIBLE FOR ANY AND ALL COSTS ASSOCIATED WITH THE DESIGN, PERMITTING, AND INSTALLATION OF THE COMPLETE LIGHTING SYSTEM (POWER, POLES, LIGHTS, ETC.).
- CLIENT AND/OR CONTRACTOR SHALL COORDINATE WITH COMMONWEALTH EDISON, AS NECESSARY, REGARDING EXISTING OR PROPOSED POWER TO THE SITE. CLIENT WILL BE RESPONSIBLE FOR ANY AND ALL COSTS ASSOCIATED WITH COMMONWEALTH EDISON SUPPLYING POWER TO THE SITE.
- IF LIGHTING SYSTEM IS CONSIDERED A PUBLIC IMPROVEMENT, CLIENT AND/OR CONTRACTOR SHALL COORDINATE WITH COMMONWEALTH EDISON AND THE JURISDICTIONAL ENTITY REGARDING TRANSFER OF STREET LIGHT SYSTEM TO JURISDICTIONAL ENTITY.

DEMOLITION:

- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR THE DEMOLITION WORK AND DISPOSAL OF WASTE MATERIAL. ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE FOR DEMOLITION, REMOVAL, AND DISPOSAL OF ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, ROAD, PARKING LOTS, DRIVEWAYS, UTILITIES, ETC. SUCH THAT THE IMPROVEMENTS SHOWN ON THE PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO THE PROPOSED SUB-GRADE ELEVATION WITH SUITABLE COMPACTED MATERIAL.
- ALL EXISTING UTILITY LINES AND CONDUITS LOCATED UNDER PROPOSED BUILDINGS, ROADWAYS, DRIVES, PAVEMENT AREAS, OR SIDEWALKS SHALL BE REMOVED AND PROPERLY BACKFILLED WITH SUITABLE COMPACTED MATERIAL. ALL EXISTING UTILITY LINES UNDER PROPOSED LANDSCAPE AREAS SHALL BE LEFT IN PLACE AND PLUGGED AT ALL STRUCTURES. ALL EXISTING STRUCTURES SHALL BE REMOVED AND BACKFILLED WITH SUITABLE COMPACTED MATERIAL. CONTRACTOR SHALL COORDINATE ACTIVITIES WITH THE APPROPRIATE UTILITY COMPANY.
- CONTRACTOR SHALL COORDINATE WITH JURISDICTIONAL ENTITY AND UTILITY COMPANIES REGARDING THE REMOVAL OF SERVICE LINES. CONTRACTOR IS RESPONSIBLE FOR ALL FEES AND CHARGES ASSOCIATED WITH DISCONNECTION OF EXISTING SERVICES.
- REMOVAL AND/OR ABANDONMENT OF ANY WELLS, SEPTIC TANKS AND/OR FIELDS, AND GREASE TRAPS SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPROPRIATE JURISDICTIONAL ENTITY.
- CONTRACTOR SHALL DEVELOP AND MAINTAIN A DUST CONTROL PLAN IN ACCORDANCE WITH JURISDICTIONAL ENTITY REQUIREMENTS.
- CONTRACTOR SHALL COORDINATE WITH JURISDICTIONAL ENTITY AND CLIENT TO ENSURE PROTECTION AND MAINTENANCE OF SANITARY AND WATER UTILITIES AS NECESSARY AND PROVIDE STORM WATER CONVEYANCE UNTIL NEW FACILITIES ARE CONSTRUCTED, TESTED, AND PLACED IN OPERATION.

EARTHWORK:

- COPIES OF SOIL BORINGS AND REPORTS, IF SUCH BORINGS WERE TAKEN BY THE CLIENT, SHOULD BE MADE AVAILABLE BY THE CLIENT TO THE ENGINEER AND CONTRACTOR. THESE BORINGS ARE PRESENTED FOR WHATEVER PURPOSE THE CONTRACTOR CHOOSES TO MAKE OF THEM. THE ENGINEER MAKES NO REPRESENTATIONS OR WARRANTY REGARDING THE NUMBER, LOCATION, SPACING, OR DEPTH OF BORINGS TAKEN, NOR OF THE ACCURACY OR RELIABILITY OF THE INFORMATION GIVEN IN THE RESULTS THEREOF.
- FURTHER, THE ENGINEER DOES NOT ASSUME RESPONSIBILITY FOR THE POSSIBILITY THAT DURING CONSTRUCTION, THE SOIL AND GROUNDWATER CONDITIONS MAY BE DIFFERENT THAN INDICATED. NEITHER DOES THE ENGINEER ASSUME RESPONSIBILITY FOR VARIATIONS OF SOIL AND GROUNDWATER AT LOCATIONS BETWEEN BORINGS. THE CONTRACTOR MAY AT THEIR DISCRETION AND COST OBTAIN ITS OWN BORINGS, EXPLORATIONS, AND OBSERVATIONS TO DETERMINE SOIL AND GROUND WATER CONDITIONS.
- THE SITE SHALL BE CLEARED, GRUBBED, AND TREES AND STUMPS REMOVED WHERE DESIGNATED ON THE PLANS OR SPECIFIED BY THE CLIENT. TREES DESIGNATED TO REMAIN SHALL BE PROTECTED FROM DAMAGE.
- UPON COMPLETION OF DEMOLITION AND SITE CLEARING, ALL TOPSOIL, ORGANIC MATERIAL, OR OTHER UNSUITABLE MATERIAL SHALL BE STRIPPED FROM AREAS REQUIRING STRUCTURAL FILL. STRIPPED MATERIAL SHALL BE PLACED IN STOCKPILES IN CLIENT DESIGNATED AREAS FOR FUTURE USE WITHIN AREAS TO BE LANDSCAPED AND FILL IN AREAS NOT REQUIRING STRUCTURAL FILL. EXCESS STRIPPED MATERIAL SHALL BE COMPLETELY REMOVED FROM THE SITE AND DISPOSED OF OFF-SITE BY THE CONTRACTOR.
- ALL SUITABLE EXCAVATED MATERIALS SHALL BE HAULED, PLACED (MOISTURE CONDITIONED IF NECESSARY) AND COMPACTED IN FILL AREAS. CONTRACTOR SHALL INCLUDE ALL WEIGHING, TEMPORARY DITCHES AND CULVERTS NECESSARY TO COMPLETE THE EXCAVATION AND FILL WORK.
- EXCAVATION AND PLACEMENT OF SUITABLE FILL MATERIAL SHALL BE WITHIN THE PROJECT LIMITS AND TO THE SUBGRADE ELEVATIONS PROVIDED ON THE PLANS. FILL MATERIAL SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING EIGHT (8) INCHES IN THICKNESS AND THE WATER CONTENT SHALL BE ADJUSTED TO ACHIEVE REQUIRED COMPACTION. IN AREAS REQUIRING STRUCTURAL FILL, FILL MATERIAL SHALL NOT BE PLACED OVER TOPSOIL OR OTHER UNSUITABLE MATERIAL.
- COMPACTION OF EXCAVATED MATERIAL AND OTHER SUITABLE MATERIAL SHALL BE AT LEAST 95% OF THE STANDARD PROCTOR DRY DENSITY WITH STRUCTURAL FILL AREAS (BUILDING PAD, PAVEMENT, SIDEWALK, ETC.) AND 90% OF THE STANDARD PROCTOR DRY DENSITY FOR NON-STRUCTURAL AREAS (GRASS, LANDSCAPE, YARDS, ETC.).
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- THE CLIENT SHALL, AT THEIR DISCRETION, EMPLOY A SOILS CONSULTANT AND TESTING FIRM TO ENSURE THE EXCAVATED AND FILL MATERIALS ARE PROPERLY CONSTRUCTED TO SUPPORT THE PROPOSED IMPROVEMENTS. THE ENGINEER DOES NOT ASSUME ANY RESPONSIBILITY REGARDING THE SUITABILITY OF THE SOIL TO SUPPORT THE PROPOSED IMPROVEMENTS.
- UPON COMPLETION OF EXCAVATION AND SHAPING OF STORM WATER DETENTION AREAS INTENDED TO MAINTAIN A PERMANENT POOL OF WATER, ALL SILT SEAMS AND GRANULAR OR SANDY SOILS SHALL BE REMOVED TO A MINIMUM DEPTH OF THREE FEET BELOW THE SUBGRADE AND REPLACED WITH AN IMPERMEABLE CLAY LINER, INCLUDING ADJACENT TO AND UNDER STORM SEWER INLETS AND OUTLETS. IT IS THE INTENT OF THESE PLANS THAT THE CONTRACTOR SHALL PREPARE THE POND BOTTOMS, SIDE SLOPES, AND COMPACTION THEREOF SUCH THAT THE PONDS WILL MAINTAIN THE PROPOSED NORMAL WATER LEVELS.

THE CONTRACTOR SHALL:

- MAINTAIN POSITIVE SITE DRAINAGE AT ALL TIMES DURING CONSTRUCTION AND PREVENT STORM WATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS.
- SPREAD AND COMPACT UNIFORMLY ALL EXCESS TRENCH SPOILS AFTER COMPLETION OF THE UNDERGROUND UTILITIES.
- SCARIFY AND COMPACT THE UPPER TWELVE (12) INCHES OF THE SUITABLE SUBGRADE MATERIAL IN ALL AREAS EXCAVATED AND FILL THAT MAY BE SOFT DUE TO EXCESS MOISTURE CONTENT.
- PROVIDE WATER TO ADD TO DRY MATERIAL IN ORDER TO ADJUST MOISTURE CONTENT FOR THE PURPOSE OF ACHIEVING THE SPECIFIED COMPACTION.
- BACKFILL THE CURB AND GUTTER AFTER ITS CONSTRUCTION AND PRIOR TO THE PLACEMENT OF BASE COURSE MATERIAL.
- IMPLEMENT AND MAINTAIN SOIL EROSION CONTROL MEASURES PROVIDED ON THE PLANS.
- LIME STABILIZE THE SUBGRADE MATERIAL IF REQUIRED BY THE SOILS CONSULTANT AND CLIENT.

- CONTRACTOR SHALL PROVIDE TESTING AND PROOF-ROLLING AS REQUIRED BY THE CLIENT AND JURISDICTIONAL ENTITY. ANY UNSUITABLE AREAS ENCOUNTERED DURING TESTING SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL APPROVED BY THE SOILS CONSULTANT AND RETESTED.

SEWER & WATER MAIN APPURTENANCES:

- WATER MAIN SHALL BE DUCTILE IRON PIPE, CLASS 52 CONFORMING TO ANNA C151 WITH PUSH ON JOINTS CONFORMING TO ANNA C110. ALL FITTINGS SHALL BE DUCTILE IRON FITTINGS CONFORMING TO ANNA C110. PIPE AND FITTINGS SHALL BE GEMENT LINED IN CONFORMANCE WITH ANNA C104.
- ALL WATER MAIN SHALL BE WRAPPED IN V-BIO POLYETHYLENE USING ALTERNATE METHODED A4: WET TRENCH CONDITIONS. A LAYER OF ARC-SPRAYED ZINC PER SO 8179 IS REQUIRED ON EXTERIOR OF PIPE.
- INSTALLATION OF PIPE AND FITTINGS SHALL BE PER ANNA C600. PIPE SHALL BE INSTALLED WITH A MINIMUM COVER OF 5' FROM FINISHED GRADE.
- WATER MAIN FITTINGS (I.E. BENDS, ELBOWS, TEES, REDUCERS, ETC.) MAY NOT BE SPECIFICALLY REFERENCED ON THE PLANS AND ARE TO BE CONSIDERED INCIDENTAL AND INCLUDED IN THE LINEAR FOOTAGE COST OF THE WATER MAIN.
- WATER SERVICES 2-INCHES IN DIAMETER OR SMALLER SHALL BE TYPE K COPPER PER ASTM 888 AND ASTM B251. SERVICE SIZES 3-INCH AND LARGER SHALL BE DUCTILE IRON.
- ALL JOINTS SHALL BE RESTRAINED WITH MEGALUGS (EBA IRON) ONLY, NO ANNEAL THURST BLOCKS.
- WATER VALVES SHALL BE RESILIENT WEDGE GATE VALVE CONFORMING TO ANNA C509. VALVES SHALL BE AMERICAN FLOW OR EAST JORDAN (FLOWMASTER). VALVE BOXES SHALL BE TYLER SCREW-TYPE C, CAST IRON, SERIES 8860 WITH NO. 160 OVAL BASE OR EAST JORDAN SCREW-TYPE, SERIES 8860 WITH #160 BASE. LIDS MUST BE MARKED "WATER".
- VALVE VAULTS SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478. MINIMUM 5' DIAMETER. JOINTS SHALL BE EXTERNALLY WRAPPED WITH MACWRAP (MIN. 9" WIDE) OR EQUAL. RUBBER GASKETED BOOTS ARE REQUIRED FOR ALL PENETRATIONS THROUGH THE MANHOLE WALLS EXCEPT FOR DOWHOLE MANHOLES (I.E. PRESSURE CONNECTIONS) WHERE BRICK/MORTAR WITH HYDROPLUG CEMENT IS REQUIRED ON BOTH THE INSIDE AND OUTSIDE OF THE PENETRATION. INTERNAL/EXTERNAL CHIMNEY SEALS SHALL BE PROVIDED. MINIMUM OF TWO ADJUSTING RINGS (MIN. 6" ADJUSTING HEIGHT) AND MINIMUM OF TWO ADJUSTING RINGS (MIN. 12" ADJUSTING HEIGHT). NO 18" OR 24" CONCRETE RINGS ARE ALLOWED. UNDER PAVED AREAS, TOP RING SHOULD BE E/1W INFR-RESR RUBBER COMPOSITE. ADJUSTMENT RINGS IN BOTTOM OF THE SECTION (IF PIPE BEING LAD) SHALL BE FULLY WRAPPED WITH MACWRAP FOR AT LEAST TEN (10) DAYS. MARK EACH PIPE PLAINLY WITH MANHOLE NUMBERS AND DATE OF MANUFACTURE. SO IT CAN BE INSTALLED IN THE PROPER LOCATION AS SHOWN ON THE PLANS. MAKE SURE THE CONTRACTOR INSTALLED AUTOMATICALLY IN THE BOTTOM OF THE SECTION (IF PIPE BEING LAD). MAKE CONNECTIONS AT MANHOLE - CUTOUTS SHOULD BE EQUIPPED WITH RUBBER ROOTS TO ENSURE A WATERIGHT CONNECTION. MATERIAL SHALL CONFORM TO MANUFACTURER'S SPECIFICATIONS BY NIP, INC. JOINT SEALANT - FLEXIBLE RUBBER SEALANT FOR JOINTS IN PRE-CAST MANHOLE SECTIONS SHALL PROVIDE PERMANENTLY WATER TIGHT JOINTS. SHALL REMAIN WORKABLE OVER A WIDE TEMPERATURE RANGE AND SHALL NOT CRACK, HARDEN OR OXIDIZE UPON EXPOSURE. MATERIAL SHALL BE EQUAL OR SUPERIOR TO ASTM C443 AND ASTM C361 REQUIREMENTS. THE FRAME FOR THE LD SHALL BE INSTALLED WHEN ONE SECTION IS CAST. HEAT-SHRINKABLE WRAPPING FOR ALL EXPOSED JOINTS SHALL BE AS MANUFACTURED BY NIP, INC. JOINT SEALANT - FLEXIBLE RUBBER SEALANT FOR JOINTS IN PRE-CAST MANHOLE SECTIONS SHALL PROVIDE PERMANENTLY WATER TIGHT JOINTS. SHALL REMAIN WORKABLE OVER A WIDE TEMPERATURE RANGE AND SHALL NOT CRACK, HARDEN OR OXIDIZE UPON EXPOSURE. 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