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Date: February 27, 2023
From: Wight & Company
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To: All Bidders for Downers Grove Grade SD 58 Playground Improvements for Four Schools project

SUBJECT: **ADDENDUM #1 TO THE BID DOCUMENTS FOR:**
Playground Improvements for Four Schools

Project No: 210223

This addendum forms a part of the bidding and contract documents and modifies the original bid documents dated 2/16/2023. Acknowledge receipt of this addendum when providing bid price. FAILURE TO DO SO MAY SUBJECT BIDDER TO DISQUALIFICATION.

PROJECT MANUAL

- 1. 321816.16 – PLAYGROUND PROTECTIVE SURFACING – POURED-IN-PLACE
 - a. MODIFIED specification. Please review all the updated specification

PLAN SHEETS – BELLE AIRE

- 1. C0.01 General Notes
 - a. Note 22 has been revised.
- C3.00
 - a. Asbuilt notes have been revised.
- C4.01
 - a. Detail 10 has been revised.
- C4.02
 - a. Sheet has been added.

PLAN SHEETS – FAIRMOUNT

- 1. C0.01 General Notes
 - a. Note 22 has been revised.
- C3.00
 - a. Grading and drainage have been revised.
- C3.01
 - a. Utilities has been updated.
 - b. Asbuilt notes have been revised.
- C4.01
 - a. Detail 10 has been revised.
- C4.02
 - a. Sheet has been added.

PLAN SHEETS – INDIAN TRAIL

- 2. C0.01 General Notes
 - a. Note 22 has been revised.
- C2.01

- a. Note 10 has been removed.
- C3.01
- a. Grading and drainage have been revised.
 - b. Asbuilt notes have been revised.
- C4.01
- a. Detail 11 has been revised.
- C4.02
- a. Sheet has been added.

PLAN SHEETS – KINGSLEY

- 1. C0.01 General Notes
 - a. Note 22 has been revised.
- C1.00
- a. Keynote 3 has been revised.
- C2.00
- a. Note 10 has been revised.
- C3.00
- a. Asbuilt notes have been revised.
- C4.01
- a. Detail 7 has been removed.
 - b. Detail 13 has been revised.

This Addendum #1 consists of two (2) description sheets, one (1) Specification consisting of seven pages and nineteen (19) plan sheets.

END OF ADDENDUM #1

SECTION 321816.16 – POURED-IN-PLACE PLAYGROUND PROTECTIVE SURFACING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Poured-in-Place Playground Surfacing System
 - 1. Acceptance of prepared subbase
 - 2. Coordination with related trades to ensure a complete, integrated, and timely installation: aggregate base course, sub-base material (tested for permeability), grading and compacting, piping and drain components (when required); as provided under its respective trade section.
- B. Related Sections: Materials and Methods, Excavation, Asphalt Paving, Concrete Paving, Sub-Drainage, Storm Drainage, Fencing, Playground Equipment and Structures.

1.2 REFERENCES

- A. American Society for Testing and Materials (ASTM):
 - 1. ASTM D412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers-Tension.
 - 2. ASTM D624 Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers.
 - 3. ASTM D2047 Standard Test Method for Static Coefficient of Friction of Polish-Coated Floor Surfaces as Measured by the James Machine.
 - 4. ASTM D2859 Standard Test Method for Flammability of Finished Textile Floor Covering Materials.
 - 5. ASTM E303 Standard Test Method for Measuring Surface Frictional Properties Using the British Pendulum Tester.
 - 6. ASTM F1292 Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment.
 - 7. ASTM F1951 Standard Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment.

1.3 SYSTEM DESCRIPTION

- A. Performance Requirements: Provide a 2-layer rubber-urethane playground surfacing system which has been designed, manufactured and installed to meet the following criteria:
 - 1. Shock Attenuation (ASTM F1292):
 - a. Gmax: Less than 200.

2. Head Injury Criteria: Less than 1000.
3. Flammability (ASTM D2859): Pass.
4. Tensile Strength (ASTM D412): 60 psi (413 kPa).
5. Tear Resistance (ASTM D624): 140%.
6. Water Permeability: 0.4 gal/yd²/second.
7. Dry skid resistance (ASTM E303) – 89
8. Wet skid resistance (ASTM E303) – 57 Required mix proportions by weight:
9. Basemat (Chunk) – 6+% urethane. 6% urethane, 94% premium rubber chunk granules.
10. Basemat (SBR) – 16+% urethane (as ratio: 14% urethane divided by 86% rubber). 14% urethane, 86% rubber (based on entire rubber & urethane mix).
11. Top Surface – 22% urethane (ratio: 18% urethane divided by 82% rubber). 18% urethane, 82% rubber (based on entire rubber & urethane mix).
12. Accessibility: Comply with requirements of ASTM F1951.

1.4 SUBMITTALS

- A. General: Submit listed submittals in accordance with Conditions of the Contract and Division
 1. Submittal Procedures Section
- B. Product Data: Submit manufacturer's product data and installation instructions.
- C. Verification Samples: Submit manufacturer's standard verification samples of 9" x 9" (229 x 229 mm) minimum for poured in place surfacing and tile color samples.
- D. Quality Assurance/Control Submittals: Submit the following:
 1. Certificate of qualifications of the playground surfacing installer.
- E. Shop Drawings:
 1. Include plans, sections, placement **and penetration** details, and attachment to substrates.
 2. Include **patterns made by varying colors of surfacing and details of graphics.**
 3. Include fall heights and use zones for equipment and structures specified in Section 116800 "Play Field Equipment and Structures," coordinated with the critical heights for protective surfacing.
- F. Closeout Submittals: Submit the following:
 1. Warranty documents specified herein.

1.5 QUALITY ASSURANCE

- A. Qualifications: Utilize an installer approved and trained by the manufacturer of the playground surfacing system, having experience with other projects of the scope and scale of the work described in this section.
- B. Certifications: Certification by manufacturer that installer is an approved applicator of the playground surfacing system.
- C. International Play Equipment Manufacturers Association (IPEMA) certified.

1.6 DELIVERY, STORAGE & HANDLING

- A. General: Comply with Division 1 Product Requirement Section.
- B. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- C. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at a minimum temperature of 40 degrees F (4 degrees C) and a maximum temperature of 90 degrees F (32 degrees C).

1.7 PROJECT/SITE CONDITIONS

- A. Environmental Requirements: Install surfacing system when minimum ambient temperature is 40 degrees F (1 degree C) and maximum ambient temperature is 90 degrees F (32 degrees C). Do not install in steady or heavy rain.
- B. Do not proceed with playground surfacing installation until all applicable site work, including substrate preparation, fencing, playground equipment installation and other relevant work, has been completed. Substrate preparation must be in accordance with surfacing manufacturer's specification. New asphalt must be fully cured – up to 30 days. New concrete must be fully cured – up to 7 days.

1.8 WARRANTY

- A. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.
- B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and not a limitation of, other rights Owner may have under contract documents.
- C. Proper drainage is critical to the longevity of the **PerfectPlay** Poured-in-Place surfacing system. Inadequate drainage will cause premature breakdown of the poured system in affected areas; and void the warranty.
 - 1. Warranty Period: **The standard warranty period is 7 years from date of completion of work when aromatic urethane is specified (PPlay-7 system).**

10 years from date of completion of work when aliphatic urethane is specified (MegaPlay-10 system). 2 years from date of completion of work when surface is in water play areas, pool surrounds or similar applications. Contact Perfect Turf LLC. for more information on warranty terms.

PART 2 - PRODUCTS

2.1 POURED-IN-PLACE PLAYGROUND SURFACING SYSTEM

A. Manufacturer: PerfectTurf

1. Contact: Perfect Turf LLC, 5540 Meadowbrook Ct, Rolling Meadows, IL 60008; Telephone: Rep: Margaret Chaidez, Cell: (630) 730-3645, Fax: (847) 277-3388, Email: mchaidez@playil.com; website: <http://www.perfectturf.com>
2. Or approved equal

B. Proprietary Products/Systems. Poured-in-place playground surfacing system, including the following:

1. **PerfectPlay** Poured-In-Place Primer:
 - a. Material: Urethane.
2. **PerfectPlay** Poured-in-Place SBR Cushion Layer:
 - a. Material: Blend of 100% recycled SBR (styrene butadiene rubber) and urethane.
 - b. Thickness: Contractor to verify critical fall height of existing equipment to determine appropriate thickness. Formulation Components: Blend of strand and granular material.
3. **PerfectPlay** Poured-In-Place Wear Course:
 - a. Material: Blend of recycled EPDM (ethylene propylene diene monomer) rubber and aliphatic urethane binder.
 - b. Thickness: Minimum 1/2" (12.7 mm)
 - c. Color: **To be determined by landscape architect**
 - d. Dry Static Coefficient of Friction (ASTM D2047): 1.0.
 - e. Wet Static Coefficient of Friction (ASTM D2047): 0.9.
 - f. Dry Skid Resistance (ASTM E303): 89.
 - g. Wet Skid Resistance (ASTM E303): 57.

2.2 PRODUCT SUBSTITUTIONS

- #### A. Substitutions: All Substitutions shall be subject to review of manufacturer's specifications and details by the Landscape Architect. Submit substitutions according to Section 012500.

2.3 MIXES

A. Required mix proportions by weight:

1. Basemat: 16+% urethane (as ratio: 14% urethane divided by 86% rubber). 14% urethane, 86% rubber (based on entire rubber & urethane mix).
2. Wear Course: 22% urethane (ratio: 18% urethane divided by 82% rubber). 18% urethane, 82% rubber (based on entire rubber & urethane mix).

2.4 BASE

A. **Minimum of 4” of compacted CA-7 (3/4” gravel) gravel base for subbase and drainage.**

PART 3 - EXECUTION

3.1 MANUFACTURER’S INSTRUCTIONS

- #### A. Comply with the instructions and recommendations of the playground surfacing manufacturer.

3.2 EXAMINATION

- #### A. Substrate preparation must be in accordance with surfacing manufacturer’s specification. New asphalt must be fully cured – up to 30 days. New concrete must be fully cured – up to 7 days.
- #### B. Proper drainage is critical to the longevity of the **PerfectPlay** Poured-in-Place surfacing system. Inadequate drainage will cause premature breakdown of the poured system in affected areas; and void the warranty.

3.3 PREPARATION

- #### A. Surface Preparation: Using a brush or short nap roller, apply primer to the substrate perimeter and any adjacent vertical barriers such as playground equipment support legs, curbs or slabs that will contact the surfacing system at the rate of 300 ft²/gal (7.5 m²/L).

3.4 INSTALLATION

- #### A. Do not proceed with playground surfacing installation until all applicable site work, including substrate preparation, fencing, playground equipment installation and other relevant work, has been completed.

B. Base:

1. Crushed stone base typical thickness to be **5.5"**, **minimum of 4"**.
2. Compact to 95% Standard Proctor Compaction.

C. Basemat Installation:

1. Using screeds and hand trowels, install the basemat at a consistent density. Basemat (Premium Chunk) consists of 6+% of urethane to rubber. Typical 100# of Premium Chunk base will require 6.5# of urethane. SBR Basemat consists of 16%+ of urethane to rubber. Typical 100# of SBR base rubber will require 16# of urethane.
2. Allow basemat to cure for sufficient time so that indentations are not left in the basemat from applicator foot traffic or equipment.
3. Do not allow foot traffic or use of the basemat surface until it is sufficiently cured.

D. Primer Application:

1. FOR SBR BASE: Using a brush or short nap roller, apply primer to the basemat perimeter and any adjacent vertical barriers such as playground equipment support legs, curbs or slabs that will contact the surfacing system at the rate of 300 ft²/gal (7.5 m²/L).

E. Top Course Installation:

1. Using a hand trowel, install top course at a consistent density. Top wear material consists of 22% urethane. Typical 110# mix of EPDM/TPV wear rubber will require 24.5# of urethane. The wear course will consist of 58 pounds per cubic foot to a nominal thickness of 1/2".
2. Allow top course to cure for a minimum of 48 hours.
3. At the end of the minimum curing period, verify that the top course is sufficiently dry and firm to allow foot traffic and use without damage to the surface.
4. Do not allow foot traffic or use of the surface until it is sufficiently cured. Complete installation recommendations are available from the manufacturer.

3.5 PROTECTION

- A. Protect the installed playground surface from damage resulting from subsequent construction activity on the site.

3.6 MAINTENANCE

A. Outdoor Applications

1. Using a standard leaf blower or broom, remove any light weight debris such as leaves, trash, etc. Using a watering hose or a pressure washer, not exceeding 1000 PSI, rinse off all excess debris from the surface. While surface is wet, apply a mild cleaning detergent and agitate lightly with a soft bristle brush. Repeat as

necessary. Once clean, final rinse with low-pressure water from a hose to remove any excess cleaning agents.

3.7 FIELD QUALITY CONTROL

- A. Testing Agency: **Engage** a qualified testing agency to perform tests.
- B. Perform the following tests **with the assistance of a factory-authorized service representative**:
 - 1. Perform "Installed Surface Performance Test" according to ASTM F1292 for each protective surfacing type and thickness in each playground area.
- C. Playground protective surfacing will be considered defective if it does not pass tests.
- D. Prepare test reports.

END OF SECTION 321816.13

GENERAL

- EXISTING SITE TOPOGRAPHY, UTILITIES, AND HORIZONTAL CONTROL SHOWN ON THE DRAWINGS WERE FIELD MEASURED BY CIVIL & ENVIRONMENTAL INC. (CEI), DATED 11/10/2011. ALL CONDIMENTS, INCLUDING UTILITY LOCATIONS ARE BASED ON BEST AVAILABLE INFORMATION. TRADE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITY LOCATIONS, INVERTS, RIMS, PIPE SIZE, MATERIAL TYPE, ETC. PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- ELEVATIONS ARE BASED ON ILLINOIS STATE PLANE COORDINATE SYSTEM NAVD 88 DATUM.
- THE TRADE CONTRACTOR SHALL SUBSCRIBE TO ALL GOVERNING REGULATIONS AND SHALL ABIDE BY THE REQUIREMENTS OF ALL APPLICABLE PERMITS.
- ALL APPLICABLE PROVISIONS OF THE CURRENT OCCUPATIONAL HEALTH AND SAFETY ACT ARE HEREIN INCORPORATED BY REFERENCE.
- NO BURNING OR INCINERATION OF RUBBISH IS PERMITTED ON THE SITE.
- STREET AND DRIVEWAY PAVEMENT SHALL BE PROTECTED FROM DAMAGE. ANY DAMAGE SHALL BE REPAIRED PER THE VILLAGE OF DOWNERS GROVE REQUIREMENTS. MATERIALS AND WORKMANSHIP OF REPAIRS SHALL CONFORM TO THE "DOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS (LATEST EDITION)", THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS (LATEST EDITION) PREPARED BY ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT), HEREIN AFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"; AND ILLINOIS ENVIRONMENTAL PROTECTION AGENCY ILLINOIS URBAN MANUAL, LATEST EDITION, AND "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", HEREIN AFTER REFERRED TO AS "ISPE STANDARDS" SHALL GOVERN THE CONSTRUCTION OF THESE IMPROVEMENTS EXCEPT AS MODIFIED BY THE CONTRACT DOCUMENTS.
- THE "DEVELOPMENT REGULATIONS", LATEST EDITION, AS ADOPTED BY THE VILLAGE OF DOWNERS GROVE, ILLINOIS, HEREIN AFTER REFERRED TO AS THE "DEVELOPMENT REGULATIONS" INCLUDING ALL VILLAGE STANDARD DETAILS AND SPECIFICATIONS; THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) AND THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS (LATEST EDITION)" PREPARED BY ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT), HEREIN AFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"; AND ILLINOIS ENVIRONMENTAL PROTECTION AGENCY ILLINOIS URBAN MANUAL, LATEST EDITION, AND "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", HEREIN AFTER REFERRED TO AS "ISPE STANDARDS" SHALL GOVERN THE CONSTRUCTION OF THESE IMPROVEMENTS EXCEPT AS MODIFIED BY THE CONTRACT DOCUMENTS.
- ALL CONNECTIONS TO EXISTING UTILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REGULATIONS OF THE VILLAGE OF DOWNERS GROVE, ILLINOIS AND THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, HEREIN AFTER REFERRED TO AS ISPE STANDARDS.
- ALL FACILITIES OR LANDSCAPING DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION BY THE RESPONSIBLE TRADE CONTRACTOR.
- PROPOSED ELEVATIONS INDICATE FINISHED GRADES. FOR SUBGRADE ELEVATIONS, ALLOW FOR THICKNESS OF PROPOSED PAVING OR TOPSOIL THICKNESS.
- THE TRADE CONTRACTOR SHALL NOTIFY THE VILLAGE OF DOWNERS GROVE, ILLINOIS 48 HOURS BEFORE THE COMMENCEMENT OF CONSTRUCTION.
- SHOULD THE TRADE CONTRACTOR ENCOUNTER FIELD DRAINAGE TILE NOT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY CONTACT ENGINEER AND THE VILLAGE OF DOWNERS GROVE FOR INSTRUCTIONS. SHOULD THE ENGINEER OR VILLAGE OF DOWNERS GROVE INSTRUCT THAT DAMAGED FIELD TILES BE RESTORED TO THEIR ORIGINAL CONDITION, THAT REPAIR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THE LOCATION OF FOUND DRAINAGE TILE SHALL BE INDICATED ON THE RECORD DRAWINGS.
- ALL TRENCHES SHOULD FOLLOW THE VILLAGE OF DOWNERS GROVE STANDARD DETAILS INCLUDED IN THE CIVIL DETAILS. TRENCHES ARE TO BE BACKFILLED WITH TRENCH BACKFILL AND COMPACTED TO 95% MODIFIED PROCTOR DENSITY, AS REQUIRED BY THE VILLAGE OF DOWNERS GROVE AND THE ISPE STANDARDS.
- TRADE CONTRACTOR IS RESPONSIBLE FOR CALLING J.U.L.I.E., AT 1-800-892-0123 OR 811 AND NOTIFYING THE CONSTRUCTION MANAGER AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING UTILITY MARKINGS THROUGHOUT CONSTRUCTION.
- ALL DIMENSIONS, CURB RADII AND ELEVATIONS REFER TO THE BACK OF CURB WHERE CURB IS SHOWN. COORDINATES ARE TO BACK OF CURB, CENTER OF STRUCTURES OR AS SHOWN.
- WHERE PAVEMENT, CURB OR SIDEWALK REMOVAL IS REQUIRED, THE TRADE CONTRACTOR SHALL SAW CUT THE BOUNDARIES OF THE AREA TO BE REMOVED PRIOR TO DEMOLITION.
- TRADE CONTRACTOR IS RESPONSIBLE FOR LAYOUT, LINE AND GRADE FOR ITEMS INCLUDED IN THE CONTRACT SCOPE OF WORK. CONTRACTOR TO USE CAD FILES AS PROVIDED BY THE ENGINEER FOR GEOMETRIC LAYOUT.
- TRADE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE PUBLIC STREET CLEAN OF DEBRIS.
- "BAND SEAL" JOINTS WITH STAINLESS STEEL STRAPS AND BOLTS SHALL BE USED WHEN CONNECTING DISSIMILAR MATERIALS.
- ALL EXISTING UTILITY STRUCTURES SHALL BE ADJUSTED AS NECESSARY TO MATCH FINISH GRADE. ALL EXISTING UTILITY STRUCTURES REQUIRING ADJUSTMENT OR RECONSTRUCTION SHALL BE COMPLETED BY THE CONTRACTOR TO THE SATISFACTION OF THE UTILITY OWNER. ADJUSTMENTS AND/OR RECONSTRUCTIONS NOT CALLED FOR ON THE PLANS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. NO MORE THAN A TOTAL OF 12 INCHES OF ADJUSTING RINGS AND/OR 2 ADJUSTING RINGS SHALL BE ALLOWED.
- IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT IN LOCATION AND/OR ELEVATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND CONSTRUCTION MANAGER SO THAT THE CONFLICT MAY BE RESOLVED.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL AS-BUILT SURVEYS. ALL AS-BUILT SURVEYS SHALL BE COMPLETED BY A PROFESSIONAL LAND SURVEYOR AND BE SIGNED AND SEALED. THE GRADING AND UTILITY CONSTRUCTION PLANS SHOULD BE USED AS THE BACKGROUND FOR ALL AS-BUILTS. THE CONTRACTOR SHALL SUBMIT TWO SETS OF THE "AS-BUILT" FINAL ENGINEERING DRAWINGS, RECORD DRAWINGS AND STORMWATER MANAGEMENT CALCULATIONS UPON COMPLETION OF IMPROVEMENTS AND INCLUDE ELECTRONIC CAD FILES. THE RECORD DRAWINGS SHOULD AT LEAST INCLUDE THE FOLLOWING INFORMATION: AS-BUILT DETENTION CONTOURS, ELEVATIONS (INCLUDING DETENTION BASIN TOP OF BERM AND OVERFLOW WEIR GRADES) AND VOLUME (VERIFIED, SIGNED & SEALED BY A PROFESSIONAL ENGINEER (PE) OR PROFESSIONAL LAND SURVEYOR (PLS)); ELEVATION, AND LOCATION (TIES TO TWO POINTS) OF ALL NEW STRUCTURES INCLUDING FIRE HYDRANTS, VALVE BOXES AND VAULTS, LINES/POST SLEEVES, WATER SERVICE CORPORATION STOPS, WATER MAIN FITTINGS/TEES, MANHOLES, SANITARY SERVICE WYES (MEASURED FROM DOWNSTREAM MANHOLE), ALL STORM/SANITARY SEWER STRUCTURES (INCLUDING INVERTS AND PIPE SIZES), ALL PIPES (LOCATIONS, SLOPES, LENGTHS, ETC.), OUTLET CONTROL STRUCTURES (INCLUDING CONTROL SIZES AND ELEVATIONS PLUS TOP OF WALL) AND ABANDONED WATER OR SANITARY SERVICE LINES. DETAILED TOPOGRAPHIC SURVEY OF ALL HIGH POINTS, LOW POINTS, CHANGE OF SLOPE INCLUDING GUTTER GRADES, TOP OF CURB GRADES, PAVEMENT GRADES, SIDEWALK GRADES, RAMP GRADES, ETC. TO VERIFY POSITIVE DRAINAGE. ALL ELEVATIONS SHOULD BE REFERENCED TO THE SAME BENCHMARK DATUM AS THE ORIGINAL DESIGN PLANS. HORIZONTAL TIES SHALL BE REFERENCED TO LOT LINES, BACK OF CURB, OR PROPERTY CORNERS. WITHIN DETENTION/IMP AREAS: FOR VERIFICATION OF DETENTION VOLUME AND SUBBASE GRADES, PRIOR TO BACK FILLING WITH CA-7, THE CONTRACTOR SHALL PROVIDE ENGINEER WITH A CERTIFIED TOPO SURVEY OF AS-BUILT SUBBASE GRADES FOR ENGINEER APPROVAL AND ALSO A COPY OF RECEIPT OF THE CA-7 AGGREGATE.
- EMERGENCY VEHICLE ACCESS IS TO BE MAINTAINED THROUGHOUT CONSTRUCTION. VEHICLE ACCESS IS TO BE CLEARLY MARKED. ANY ALTERATION OF EMERGENCY VEHICLE ROUTE OR ACCESS IS TO BE APPROVED BY THE VILLAGE OF DOWNERS GROVE, ILLINOIS.

TRAFFIC CONTROL

- THE TRADE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL (IDOT STANDARD 701006) AT ALL TIMES WHEN ANY VEHICLES, EQUIPMENT, WORKER, OR ACTIVITY ENROUCH ADJACENT ROADWAYS FROM 15 FEET TO THE EDGE OF PAVEMENT. THE TRADE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL (IDOT STANDARD 701501) WHEN ACTIVITY ENROACHES THE EDGE OF PAVEMENT FOR THESE ROADS.
- IF THE OPERATION IS 15 FEET OR MORE, OFF THE EDGE OF PAVEMENT, NO SIGNING WILL BE REQUIRED UNLESS TWO OR MORE VEHICLES CROSS THE 15 FOOT CLEAR ZONE IN ONE HOUR.
- WHEN WORKING WITHIN 2 FEET OF THE PAVEMENT EDGE, CONES, DRUMS, OR BARRICADES SHALL BE PLACED ACCORDING TO THE STANDARD 701101 REQUIREMENTS.
- CONTRACTOR MUST FOLLOW ALL VILLAGE OF DOWNERS GROVE AND DUPAGE COUNTY DEPARTMENT OF TRANSPORTATION REQUIREMENTS FOR TRAFFIC CONTROL.

HOT MIX ASPHALT PAVING

- SUBGRADE PREPARATION, BASE COURSE PLACEMENT, AND HMA PAVEMENT SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS AND RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
- DEPRESSIONS OF FINAL HMA SURFACES SHALL NOT EXCEED 1/4 INCH FROM PROPOSED CORRECTIONS TO NON-COMPLIANT AREAS ORDERED BY THE CONSTRUCTION MANAGER SHALL BE MADE AT NO ADDITIONAL CHARGE.
- ALL SIGNAGE AND STRIPING SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.

STORM SEWER

- CONTRACTOR TO FOLLOW ALL VILLAGE OF DOWNERS GROVE REQUIREMENTS.
- ALL STORM STRUCTURES AND SEWERS ARE TO BE CLEANED PRIOR TO FINAL ACCEPTANCE. THE TRADE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING SEDIMENT FROM THE STORM SEWER STRUCTURES AND PIPES DURING CONSTRUCTION AND UNTIL 90% OF VEGETATION IS ESTABLISHED.
- MANHOLES, CATCH BASINS, INLETS, BEDDINGS AND TRENCH BACKFILL SHALL CONFORM TO THE CONSTRUCTION DETAILS, STANDARD SPECIFICATIONS AND ISPE SPECIFICATIONS.
- ALL STORM SEWER SHOULD BE PVC SDR 26 OR STRONGER.

EARTHWORK

- ALL AREAS SHALL BE CLEARED AND TILLED IN PREPARATION TO RECEIVE SEED. REFER TO SPECIFICATIONS FOR REQUIREMENTS.
- THE TRADE CONTRACTOR SHALL APPLY FERTILIZER AND SEED TO ALL DISTURBED AREAS, AS NOTED ON THE CONSTRUCTION DRAWINGS. TRADE CONTRACTOR SHALL APPLY FERTILIZER AND SEED USING THE HYDROSEED METHOD. FERTILIZER AND SEED QUANTITIES AND SEEDING PROCEDURES SHALL CONFORM TO THE SPECIFICATIONS.
- THE TRADE CONTRACTOR WILL INSPECT THE SEEDED AREAS AFTER SEEDING, TO RECEIVE FINAL ACCEPTANCE. SEEDED AREAS MUST SUPPORT DENSE, THRIVING GRASSES SUFFICIENT TO PROTECT THE SOIL FROM EROSION IN A MODERATE RAINFALL AREAS THAT, IN THE OPINION OF THE OWNER & ENGINEER, DO NOT MEET THIS REQUIREMENT, MUST BE IMMEDIATELY RESEED, REFER TO SPECIFICATIONS FOR ALL REQUIREMENTS.
- TOPSOIL FOR RESTORATION AREAS SHALL COMPLY WITH THE STANDARD SPECIFICATIONS. TOPSOIL MAY BE SALVAGED FROM THE SITE AND STOCKPILED FOR REUSE WHEN ALL WORK IS COMPLETED. ADDITIONAL TOPSOIL REQUIRED TO COMPLETE THE JOB SHALL BE OBTAINED FROM OFF-SITE SOURCES AT THE TRADE CONTRACTORS EXPENSE. SALVAGED TOPSOIL SHALL BE SUBJECT TO THE ENGINEERS APPROVAL AND WILL BE REJECTED IF NOT CLEAN, UNCONTAMINATED MATERIAL.
- THE CROWNS AND ROOT OF TREES WHICH ARE TO BE PRESERVED IN THE PROJECT AREA, BUT WHICH COULD BE NEGATIVELY AFFECTED DURING THE CONSTRUCTION PROCESS, SHALL BE PRUNED BY A QUALIFIED ARBORIST ACCORDING TO THE TREE PRUNING STANDARDS SET BY ANSI Z100 CODE.
- POROUS GRANULAR EMBANKMENT, SUBGRADE

THIS WORK CONSISTS OF FURNISHING, PLACING, AND COMPACTING POROUS GRANULAR MATERIAL AS DIRECTED BY THE ENGINEER. POROUS GRANULAR EMBANKMENT SHALL CONSIST OF CA-1 AGGREGATE CAPPED WITH A 3 INCHES NOMINAL THICKNESS TOP LIFT OF CA-4 CAPPING AGGREGATE. THE MATERIAL SHALL BE USED AS A BRIDGING LAYER OVER SOFT, PUMPY, AND LOOSE SOIL AND SHALL CONFORM.

THE POROUS GRANULAR MATERIAL SHALL BE PLACED IN ONE LIFT WHEN THE TOTAL THICKNESS TO BE PLACED IS 2 FEET OR LESS OR AS DIRECTED BY THE ENGINEER. EACH LIFT OF THE POROUS GRANULAR MATERIAL SHALL BE ROLLED WITH A VIBRATORY ROLLER MEETING THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS TO OBTAIN THE DESIRED KEYING OR INTERLOCK AND COMPACTION. THE ENGINEER SHALL VERIFY THAT ADEQUATE KEYING HAS BEEN OBTAINED.

CONSTRUCTION EQUIPMENT NOT NECESSARY FOR THE COMPLETION OF THE REPLACEMENT MATERIAL WILL NOT BE ALLOWED ON THE UNDERCUT AREAS UNTIL COMPLETION OF THE RECOMMENDED THICKNESS OF THE POROUS GRANULAR EMBANKMENT SUBGRADE.

FULL DEPTH SUBGRADE UNDERCUT SHOULD OCCUR AT LIMITS DETERMINED BY THE ENGINEER. A TRANSITION SLOPE TO THE FULL DEPTH OF UNDERCUT SHALL BE MADE OUTSIDE OF THE UNDERCUT LIMITS AT A TAPER OF 1 FOOT LONGITUDINAL PER 1 INCH DEPTH BELOW THE PROPOSED SUBGRADE OR BOTTOM OF THE PROPOSED AGGREGATE SUBGRADE WHEN INCLUDED IN THE CONTRACT.

THIS WORK WILL BE MEASURED FOR PAYMENT IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, WHEN SPECIFIED ON THE CONTRACT, THE THEORETICAL ELEVATION OF THE BOTTOM OF THE AGGREGATE SUBGRADE SHALL BE USED TO DETERMINE THE UPPER LIMIT OF POROUS GRANULAR EMBANKMENT, SUBGRADE. THE VOLUME WILL BE COMPUTED BY THE METHOD OF AVERAGE END AREAS.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR POROUS GRANULAR EMBANKMENT, SUBGRADE WHICH PRICE SHALL INCLUDE THE CAPPING AGGREGATE, WHEN REQUIRED.

THE POROUS GRANULAR EMBANKMENT, SUBGRADE SHALL BE USED AS FIELD CONDITIONS WARRANT AT THE TIME OF CONSTRUCTION.

WORK UNDER THIS ITEM SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS EXCEPT AS HEREIN MODIFIED.

SPECIAL EXCAVATION SHALL INCLUDE THE SATISFACTORY REMOVAL AND OFF-SITE DISPOSAL OF ALL UNSUITABLE MATERIAL BELOW THE SUBGRADE ELEVATION.

AFTER EXCAVATING TO THE REQUIRED SUBGRADE LEVEL, THE ENGINEER & GEOTECH ENGINEER SHALL INSPECT THE SUBGRADE. PRIOR TO PLACING ANY PAVEMENT SECTION MATERIAL THE EXCAVATION LEVEL OR SUBGRADE LEVEL SHALL BE COMPACTED AND, WHERE POSSIBLE, PROOF ROLLED WITH A 40,000 LB TANDEM AXLE TRUCK BY MAKING AT LEAST 4 PASSES, THE COMPACTING AND PROOF ROLLING WILL DETECT SOFT OR UNSTABLE POCKETS OF MATERIAL WHICH SHALL BE REMOVED AND REPLACED AS HEREIN SPECIFIED. THE COMPACTING AND PROOF ROLLING SHALL BE INCIDENTAL TO THE WORK AND NO ADDITIONAL COMPENSATION WILL BE PAID.

IF THE EXISTING SUBGRADE SOIL IS NOT SUITABLE FOR PROVIDING AN IBR SOIL SUPPORT VALUE OF 2, THE TRADE CONTRACTOR SHALL REMOVE THE UNSUITABLE SUBGRADE SOIL BELOW THE PROPOSED SUBGRADE LEVEL TO A DEPTH AS DIRECTED BY THE ENGINEER. COMPACT AND PROOF ROLL THE EXCAVATED AREA. IF UPON PROOF ROLLING THE SUBGRADE IS STILL UNSUITABLE, ADDITIONAL EXCAVATION MAY BE REQUIRED. NO ADDITIONAL COMPENSATION WILL BE MADE REGARDLESS OF THE NUMBER OF TIMES THE AREA IS COMPACTED AND PROOF ROLLED.

CA-1 SHALL BE USED TO BRING THE SUBGRADE TO THE PROPOSED ELEVATION AS INDICATED UNDER THE ITEM POROUS GRANULAR EMBANKMENT, SUBGRADE, POROUS GRANULAR EMBANKMENT, SUBGRADE IS NOT CONSIDERED PART OF THIS ITEM.

THOSE AREAS OF SUBGRADE WHICH ARE NOT OVER EXCAVATED SHALL ALSO BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.

SPECIAL EXCAVATION AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER WILL BE MEASURED FOR PAYMENT IN PLACE AND THE VOLUME IN CUBIC YARDS COMPUTED BY THE METHOD OF AVERAGE END AREAS. EXCAVATION IN EXCESS OF THAT AUTHORIZED SHALL NOT BE MEASURED FOR PAYMENT.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT CUBIC YARD FOR SPECIAL EXCAVATION, WHICH PRICE SHALL INCLUDE ALL COSTS ASSOCIATED WITH UNSUITABLE MATERIAL REMOVAL AND LEGAL DISPOSAL, GRADING COMPACTING AND PROOF ROLLING OF SUBGRADE.

IF THE OWNER IS REQUIRED TO HAVE A GEOTECHNICAL ENGINEER ON-SITE TO MONITOR EARTHWORK, AND THE GRADING ACTIVITY, IN ORDER TO IDENTIFY UNSUITABLE SOILS FOR REMOVAL FROM THE SITE, CONTRACTOR TO ENSURE REQUIREMENTS ARE MET.

SEDIMENT AND EROSION CONTROL

- AN INITIAL SEDIMENTATION AND EROSION CONTROL INSPECTION IS REQUIRED PRIOR TO STARTING CONSTRUCTION. THE APPLICANT IS DIRECTED TO CONTACT THE COMMUNITY DEVELOPMENT DEPARTMENT AT 630-434-5529 TO SCHEDULE THIS INSPECTION; THIS NOTIFICATION SHALL BE AT LEAST 24 HOURS IN ADVANCE OF CONSTRUCTION.
- THE SEDIMENT AND EROSION CONTROL DEVICES SHALL BE FUNCTIONAL BEFORE ANY LAND IS DISTURBED ON THE SITE.
- STOCKPILES OF SOIL SHALL NOT BE LOCATED WITHIN ANY DRAINAGE WAYS, FLOODPLAINS, WETLANDS, BUFFERS OR LPDAS.
- SEDIMENT AND EROSION CONTROL SHALL BE PROVIDED FOR ANY SOIL STOCKPILE IF IT IS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS INCLUDING A DOUBLE ROW OF SILT FENCE OR COIR ROLL.
- PROPERTIES DOWNSTREAM FROM THE SITE SHALL BE PROTECTED FROM EROSION IF THE VOLUME, VELOCITY, SEDIMENT LOAD, OR PEAK FLOW RATES OF STORMWATER RUNOFF ARE TEMPORARILY INCREASED DURING CONSTRUCTION.
- STORM SEWER INLETS SHALL BE PROTECTED WITH SEDIMENT TRAPPING OR FILTER CONTROL DEVICES DURING CONSTRUCTION.
- THE SURFACE OF STRIPPED AREAS SHALL BE PERMANENTLY OR TEMPORARILY PROTECTED FROM SOIL EROSION WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED. STRIPPED AREAS THAT WILL REMAIN UNDISTURBED FOR MORE THAN SEVEN (7) DAYS AFTER INITIAL DISTURBANCE SHALL BE PROTECTED FROM EROSION.
- WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DOWATERING SHALL BE FILTERED.
- A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROVIDED TO PREVENT THE DEPOSITION OF SOIL ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED BEFORE THE END OF EACH WORKDAY.
- ALL TEMPORARY EROSION CONTROL MEASURES NECESSARY TO MEET THE REQUIREMENTS OF THE VILLAGE OF DOWNERS GROVE STORMWATER AND FLOOD PLAIN ORDINANCE SHALL BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE PERIOD OF LAND DISTURBANCE UNTIL PERMANENT SEDIMENT AND EROSION AND CONTROL MEASURES ARE OPERATIONAL.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL STABILIZATION IS ACHIEVED. TRAPPED SEDIMENT AND OTHER DISTURBED SOILS RESULTING FROM TEMPORARY MEASURES SHALL BE PROPERLY DISPOSED OF PRIOR TO PERMANENT STABILIZATION.
- TRADE CONTRACTOR SHALL ABIDE BY EROSION CONTROL MEASURES OUTLINED IN THE "ILLINOIS URBAN MANUAL, LATEST EDITION" BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA).
- SILT FENCING AND OTHER EROSION CONTROL DEVICES SHALL BE INSTALLED BY THE TRADE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION ACTIVITIES TO THE LIMITS DELINEATED ON THE PLANS. NO DISTURBANCE OF LAND IS ALLOWED OUTSIDE THE SILT FENCE AND PROJECT LIMITS AS INDICATED ON THE PLANS.
- ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES MUST BE INSPECTED WEEKLY AND MAINTAINED. INSPECTIONS SHALL ALSO BE MADE AFTER A RAINFALL EVENT OF 1/2 INCH OR GREATER OR EQUIVALENT SNOW FALL EVENT. IF NECESSARY, REPAIR OR REPLACEMENT MUST BE PERFORMED IMMEDIATELY TO ASSURE EFFECTIVE PERFORMANCE OF THEIR INTENDED FUNCTIONS.
- IF DOWATERING DEVICES ARE USED, DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. ALL PUMPED DISCHARGES SHALL BE ROUTED THROUGH APPROPRIATELY DESIGNED SEDIMENT TRAPS, BASINS, SEDIMENT FILTER BAGS OR EQUIVALENT MEASURES.
- STABILIZATION OF DISTURBED AREAS MUST BE INITIATED WITHIN 1 WORKING DAY OR PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE BUT NOT LATER THAN 7 DAYS FROM THE INITIATION OF STABILIZATION WORK IN AN AREA.
- MAJOR AMENDMENTS OF THE SITE DEVELOPMENT OR EROSION AND SEDIMENTATION CONTROL PLANS SHALL BE SUBMITTED TO THE MUNICIPALITY TO BE APPROVED IN THE SAME MANNER AS THE ORIGINAL PLANS.
- THE TRADE CONTRACTOR SHALL STABILIZE THE SIDE SLOPES GREATER THAN 10:1 OR WHERE SHOWN ON THE PLANS BY INSTALLING NORTH AMERICAN GREEN SC150BN EROSION CONTROL BLANKET, WITHIN 5 DAYS AFTER FINAL GRADE IS ACHIEVED AND FOLLOWING SEEDING WITH THE TEMPORARY SEED MATRIX. THE EROSION CONTROL BLANKET SHALL BE INSTALLED AS REQUIRED BY THE MANUFACTURER'S STANDARDS AND SPECIFICATIONS.
- TEMPORARY STOCKPILES SHALL HAVE A SILT FENCE ERRECTED AROUND THE PERIMETER OF THE PILE. IF A PILE IS TO REMAIN IN PLACE FOR MORE THAN 14 DAYS, IT SHALL BE TEMPORARY SEEDED.
- SOIL STOCKPILE LOCATIONS MAY BE LOCATED BY THE CONTRACTOR AS NECESSARY ONSITE AND DO NOT NEED TO MATCH EXACT LOCATION AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN. PROVIDE SILT FENCE AROUND ALL STOCKPILE LOCATIONS. NO STOCKPILES SHALL BE PLACED IN THE PROPOSED DETENTION POND OR BE PLACED IN FLOOD PROTECTION AREAS OR THEIR BUFFERS.
- ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY EXISTING STORM DRAINAGE SYSTEM BY THE USE OF INLET PROTECTIONS/FILTER, ROCK CHECK DAMS OR OTHER APPROVED METHODS. THE TRADE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT RESULTING FROM THIS PROJECT FROM ALL SEWERS AND DRAINAGE STRUCTURES (NO FLUSHING DOWNSTREAM) UNTIL 90% OF VEGETATION IS ESTABLISHED.
- TEMPORARY SEDIMENT BARRIERS, INLET PROTECTION/FILTER PROTECTION, FOR STORM SEWER GRATES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS WITHIN THE PLANS AND THE ILLINOIS URBAN MANUAL.
- THE TRADE CONTRACTOR SHALL PRESCRIBE THE METHODS OUTLINED IN THE ILLINOIS URBAN MANUAL TO CONTROL DUST. ACCEPTABLE MEASURES INCLUDE VEGETATIVE COVER (TEMPORARY SEEDING), MULCH, IRRIGATION, STONE, AND PERMANENT VEGETATION (PERMANENT SEEDING). TEMPORARY DUST CONTROL MEASURES (BY MEANS ACCEPTABLE TO LOCAL AUTHORITIES) SHALL BE APPLIED AS NEEDED TO ACCOMPLISH DUST CONTROL.
- IF AN EXISTING ON-SITE ASPHALT ACCESS IS NOT PRESENT THEN, THE TRADE CONTRACTOR SHALL PROVIDE A CONSTRUCTION ACCESS ROAD CONSTRUCTED OF IDOT CA-1 FOR 100 FEET IN LENGTH. THE TRADE CONTRACTOR SHALL MAINTAIN THE ADJACENT ROADS FREE OF MUD AND SEDIMENT AT ALL TIMES. REFER TO THE ILLINOIS URBAN MANUAL STANDARD DRAWING IL-630.
- ALL ACCESS TO AND FROM THE CONSTRUCTION SITE IS TO BE RESTRICTED TO THE CONSTRUCTION ENTRANCE.
- TRADE CONTRACTOR IS RESPONSIBLE FOR KEEPING PUBLIC STREETS CLEAR OF DIRT, DUST, DEBRIS AND MUD ON A DAILY BASIS FOR THE ENTIRE CONSTRUCTION PERIOD BY A MEANS ACCEPTABLE TO LOCAL AUTHORITIES.
- 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.
- A SWPPP IS NOT ANTICIPATED FOR THIS DEVELOPMENT SINCE THE DISTURBED AREA IS LESS THAN 1.0 ACRES

ABBREVIATIONS

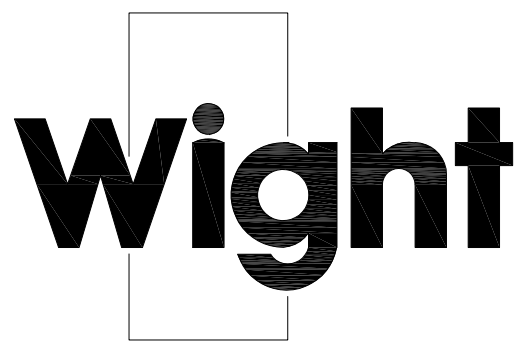
A	ARC LENGTH	MH	MANHOLE
B/C	BACK OF CURB	N.D.L	NO DISTURB LINE
B-B	BACK-TO-BACK OF CURB	N.I.C.	NOT IN CONTRACT
BI	BITUMINOUS PAVEMENT	N.W.E.	NORMAL WATER ELEVATION
B.L.	BUILDING LINE	P.I.	POINT OF INTERSECTION
B.M.	BENCH MARK	P.R.C.	POINT OF REVERSE CURVATURE
BRW	BOTTOM OF RETAINING WALL	P.V.C.	POLYVINYL CHLORIDE
B/W	BACK OF SIDEWALK	P.T.	POINT OF TANGENCY
CHDPE	CLEAN OUT	P.L.	PROPERTY LINE
C	CURB AND GUTTER	P.C.	POINT OF CURVATURE
C & G	CATCH BASIN	PVI	POINT OF VERTICAL INTERSECTION
CP	CONTROL POINT	R	PROFILE GRADE
DWG.	DRAWING	R	RADIUS
D.I.P.	DUCTILE IRON PIPE	RCP	REINFORCED CONCRETE PIPE
DI.A.	DIAMETER	REC.	RECORD DIMENSION
D	DISTANCE	R.O.W.	RIGHT-OF-WAY
DC	DEPRESSED CURB	R.T.	RIGHT
D.E.	DRAINAGE EASEMENT	SHT	SHEET
D.V.	DETECTION VOLUME	S	SLOPE
DS	DOWNSPOUT	STA	STATION
ELEV./ EL.	ELEVATION	STMH	STORM MANHOLE
E/P	EDGE OF PAVEMENT	SAN	SANITARY
E.J.	EXPANSION JOINT	SMH	SANITARY MANHOLE
EX.	EXISTING	T.E.	TOP ELEVATION
F.G.	FINISH GRADE	T/C	TOP OF CURB
F-F	FACE-TO-FACE OF CURB OR WALL	T.O.P.	TOP OF PIPE
F/L	FLOW LINE	T	TELEPHONE
F.H.	FIRE HYDRANT	TRW	TOP OF RETAINING WALL
F.E.S.	FLARED END SECTION	TYP	TYPICAL
FIP	FOUND IRON PIPE	U.E.	UTILITY EASEMENT
F/F	FINISHED FLOOR	V.C.	VERTICAL CURVE
GAV	GAS VALVE	V.I.F.	VERIFY IN FIELD
GF	GRADE AT FOUNDATION	V.I.T.	VITRIFIED HUB TILE
G.L.	GUTTER LINE	V.B.	VALVE BOX
GR	GRADE ELEVATION	V.V.	VALVE VAULT
GV/VV	GATE VALVE IN VALVE VAULT	V.C.P.	VITRIFIED CLAY PIPE
GV/VB	GATE VALVE IN VALVE BOX	VER.	VERTICAL
HDW	HEADWALL	W	WATER
HOR.	HORIZONTAL	W/H	WITH
H.W.E.	HIGH WATER ELEVATION	WM	WATER MAIN
I.E. / INV.	INVERT ELEVATION		
INL	INLET		
IRR.	IRRIGATION		
L	LENGTH		
L.P.	LIGHT POLE		
LT	LEFT		
(M)	MEASURED BEARING OR DISTANCE		
M/E	MATCH EXISTING		
M.O.	MID ORDINATE		

LEGEND

EXISTING			
	STORM SEWER		FIRE HYDRANT
	SANITARY SEWER		WATER VALVE VAULT
	WATER MAIN		WATER VALVE BOX
	TELEPHONE		WATER BUFFALO BOX
	ELECTRICAL		WATER METER
	GAS MAIN		ELECTRIC METER
	GUARD RAIL		GAS METER
	EXISTING FENCE		GAS VALVE
	STORM MANHOLE		CLEANOUT
	CATCH BASIN		VILLAGE ELEC. MH
	INLET		COMED ELEC. MH
	FLARED END SECTION		TELEPHONE MH
	SANITARY MANHOLE		SOIL BORING
	DECIDUOUS TREE		LIGHT POLE
	EVERGREEN TREE		POWER POLE
	SIGN		TELEPHONE POLE
PROPOSED			
	COMBINED SEWER		FIBER OPTIC CONDUIT
	STORM SEWER		ELECTRIC LIGHT
	SANITARY SEWER		CLEANOUT ACCESS
	WATER MAIN		FIRE HYDRANT
	TELEPHONE		WATER VALVE VAULT
	ELECTRICAL		WATER VALVE BOX
	GAS MAIN		ELECTRIC MANHOLE
	GUARD RAIL		TELEPHONE PEDESTAL
	STORM MANHOLE		GAS METER
	CATCH BASIN		DOWNSPOUT
	SANITARY MANHOLE		
	DECIDUOUS TREE		
	SIGN		
	TELEVISION		
	ELECTRIC GENERATOR		
	ELECTRIC TRANSFORMER		
	ELECTRIC METER BOX		
	SILT FENCE		
	FENCE/GATE		



DOWNERS GROVE GRADE SD 58



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	ADDENDUM 1	02-27-23
	ISSUED FOR BID	02-16-23
	ISSUED FOR PERMIT	01-26-23
REV	DESCRIPTION	DATE

BELLE AIRE PLAYGROUND

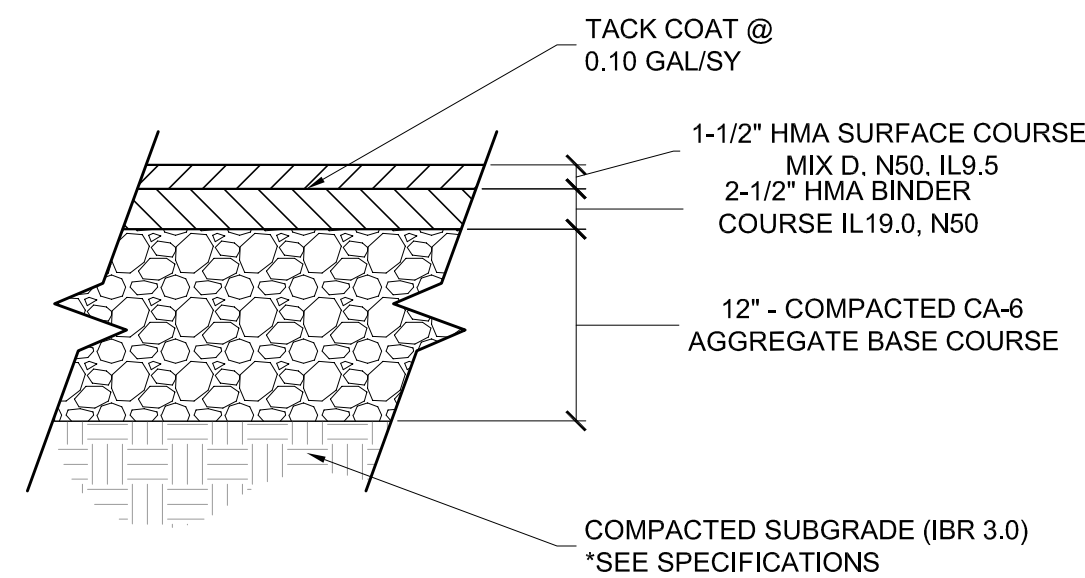
3935 BELLE AIRE LANE
DOWNERS GROVE, IL 60515

GENERAL NOTES

Project Number: 210223
Scale:

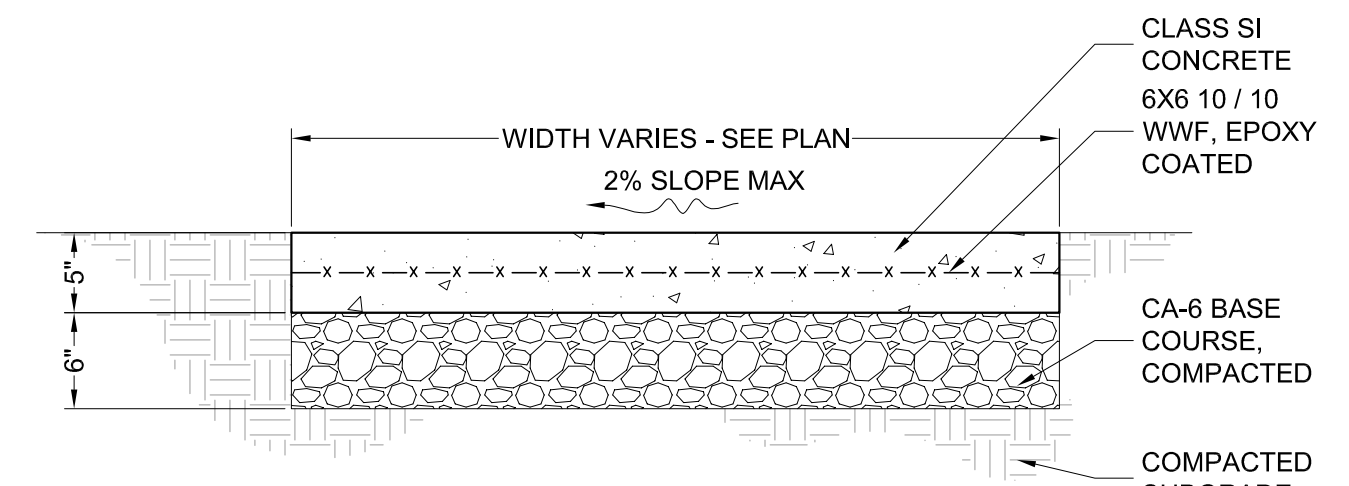
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Sheet: C0.01

S:\Darien\Downers Grove SD58\210223_Belle Aire Playground Renovation\01\11 Drawings\02 CD\200036 C4.00 DETAILS.dwg devans Feb 27, 2023 4:36:38 pm
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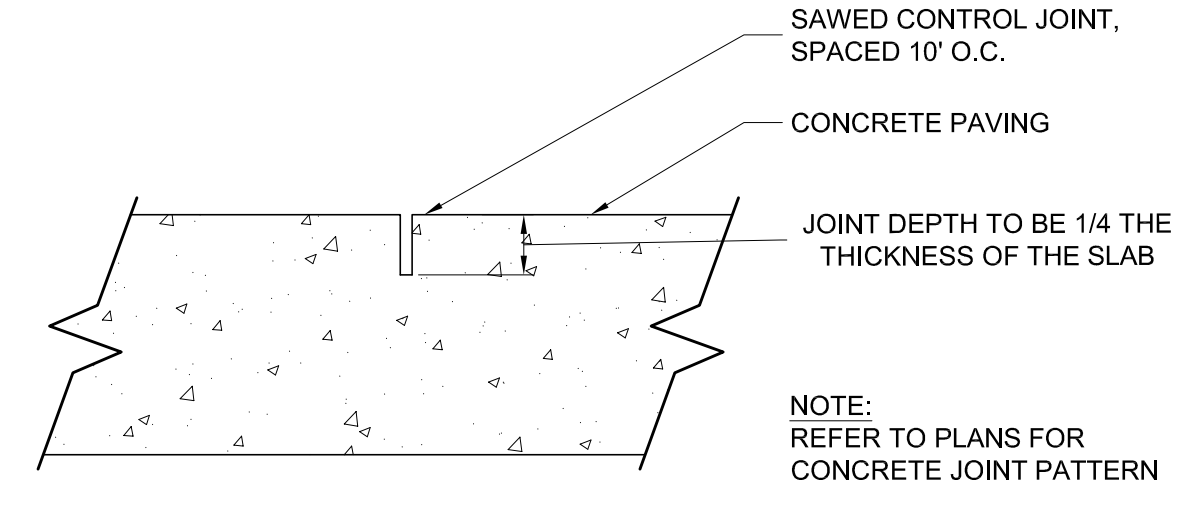
NOTES:
 1. FOR UNSUITABLE SUBGRADES UNDERCUT PER GEOTECHNICAL'S / ENGINEER'S RECOMMENDATION. (2 FOOT MAXIMUM)

1 HMA PAVEMENT - VEHICULAR
 SCALE: 1"=1'-0"



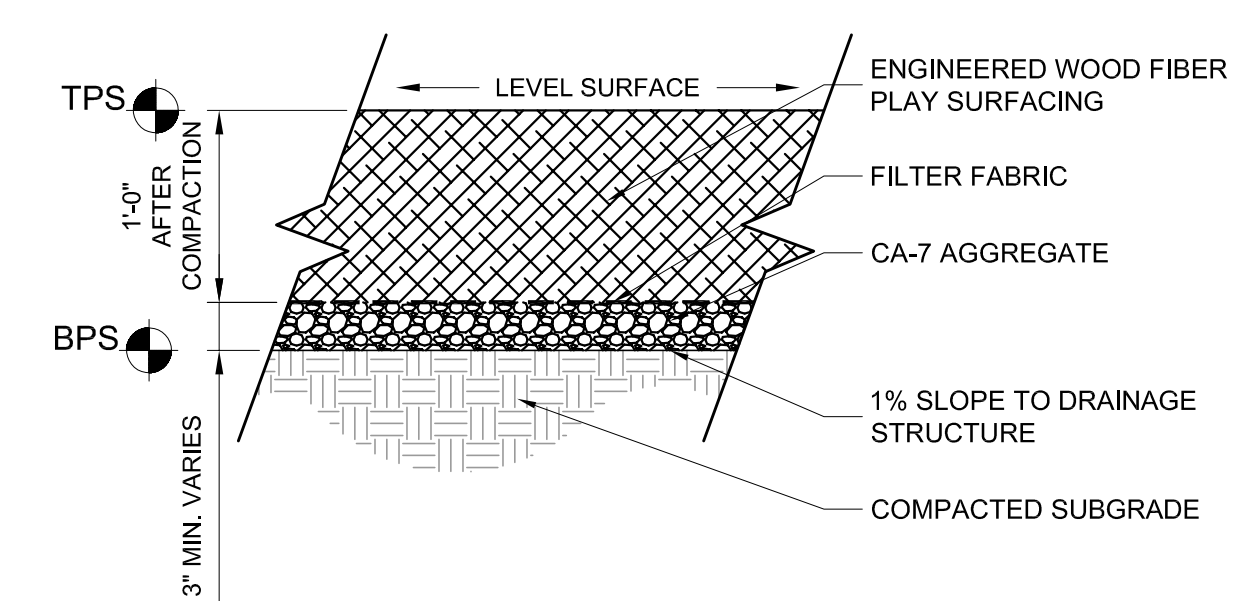
NOTES:
 1. ALL SIDEWALKS SHALL BE CONSTRUCTED WITH IDOT CLASS SI CONCRETE, NOT LESS THAN 3500 P.S.I. CONCRETE AT 14 DAYS.
 2. SIDEWALK THICKNESS CROSS DRIVEWAY SHALL BE A MINIMUM 8".
 3. REFER TO EXPANSION JOINT DETAIL.
 4. THE TRANSVERSE JOINTS SHALL EXTEND TO 1/4 THE DEPTH OF THE SIDEWALK, SHALL NOT BE MORE THAN 1/4" IN WIDTH, AND SHALL BE EDGED HAVING A 1/4 INCH RADIUS. NO SLAB SHALL BE LONGER THAN 6 FEET NOR LESS THAN 4 FEET ON ANY ONE SIDE.

2 CONCRETE PAVING
 SCALE: 1" = 1'-0"

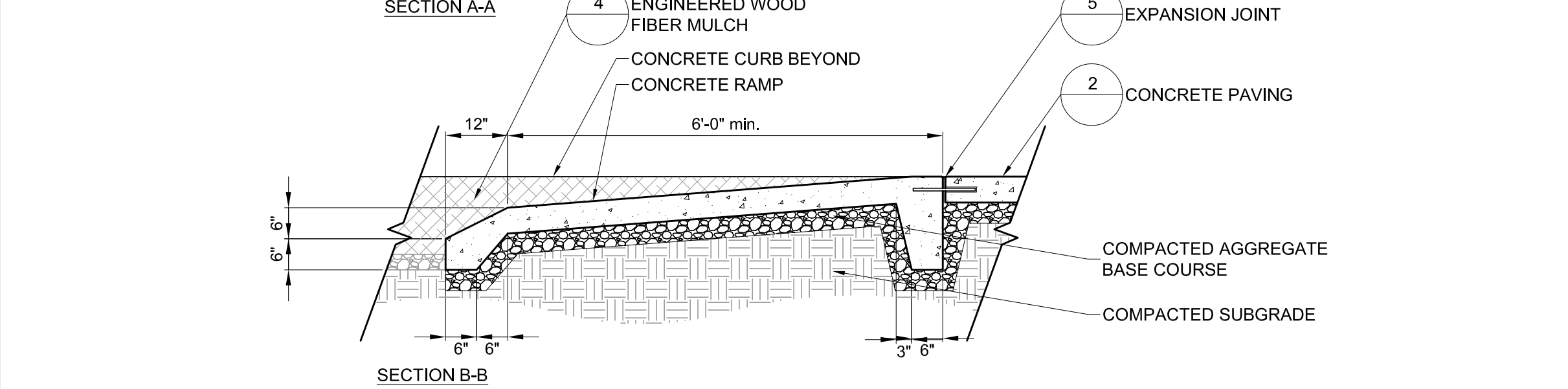
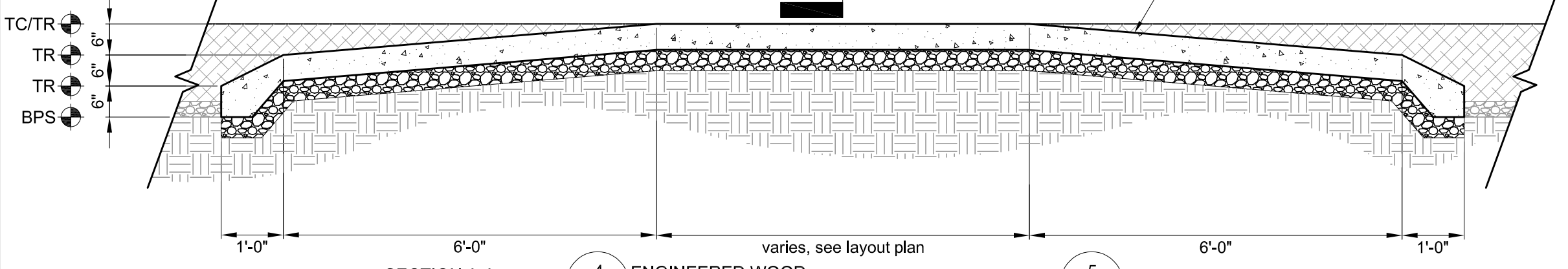
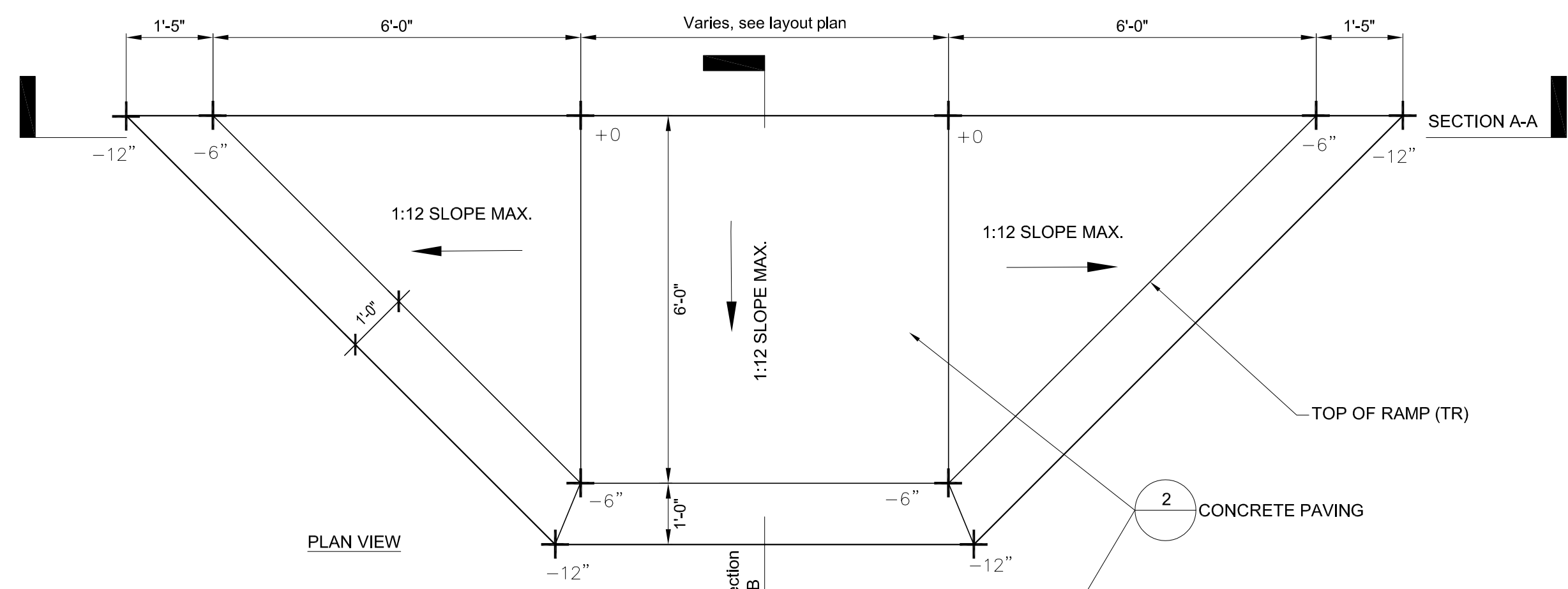


NOTE:
 REFER TO PLANS FOR CONCRETE JOINT PATTERN

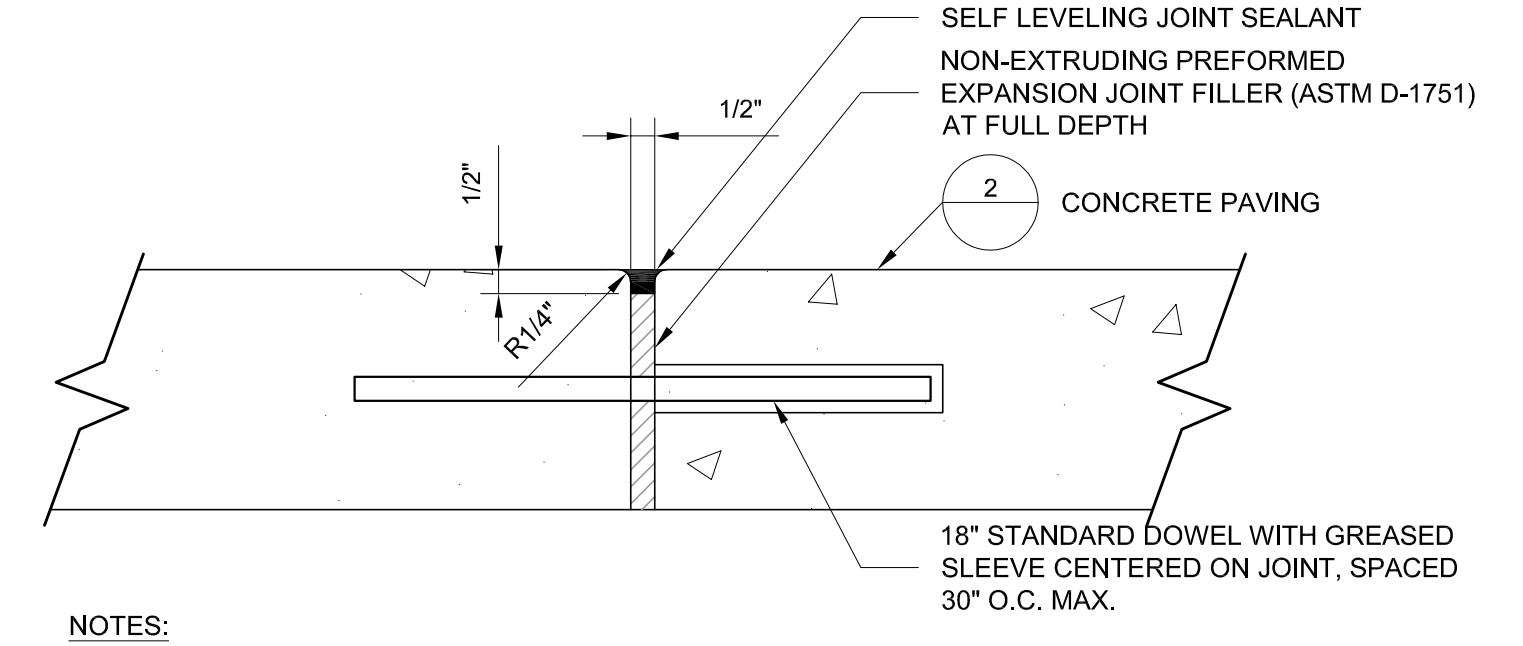
3 CONTROL JOINT
 SCALE: 3" = 1'-0"



4 PLAY SURFACING - ENGINEERED WOOD FIBER MULCH
 SCALE: 1" = 1'-0"

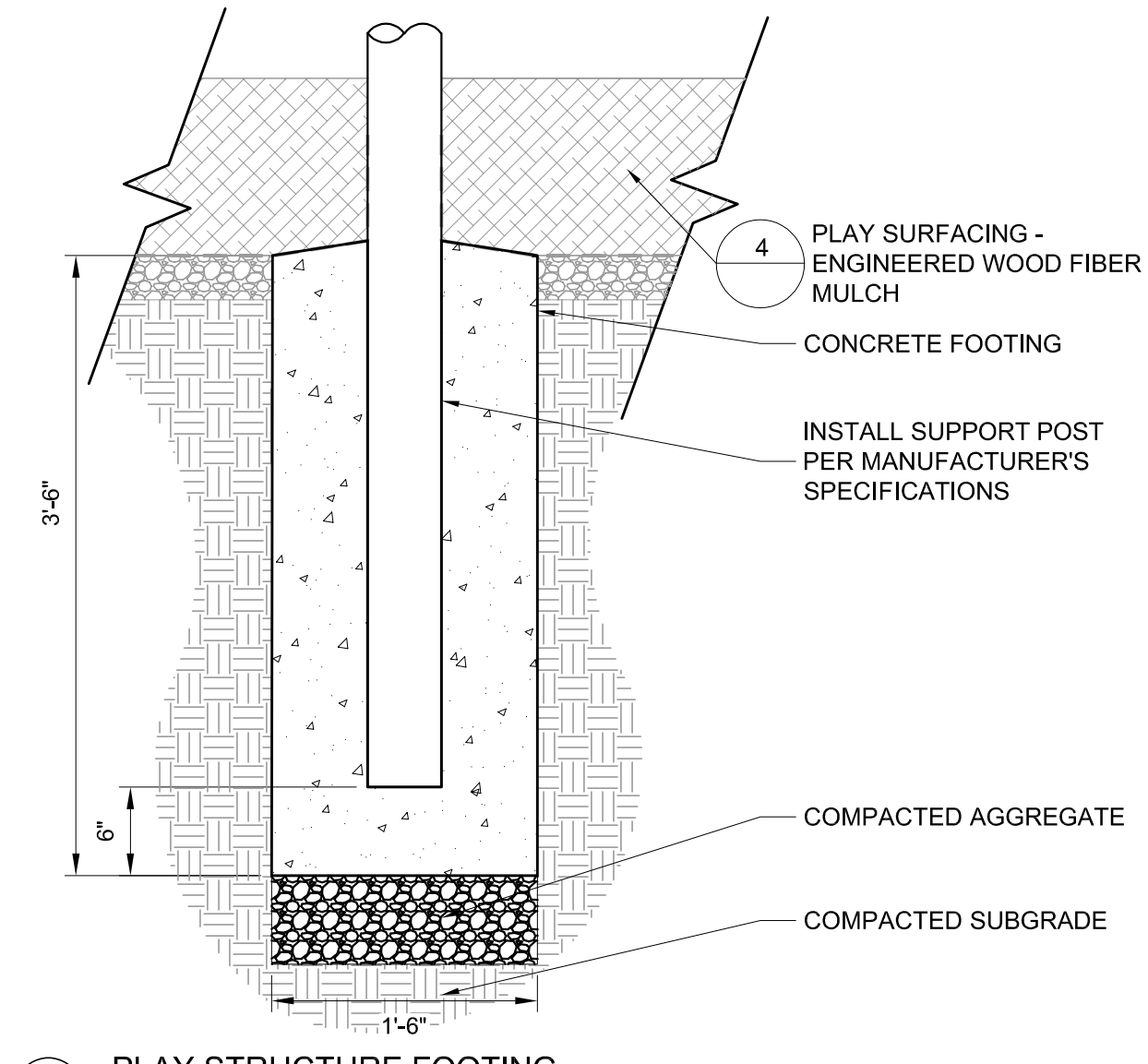


7 PLAYGROUND RAMP
 SCALE: 1/2"=1'-0"

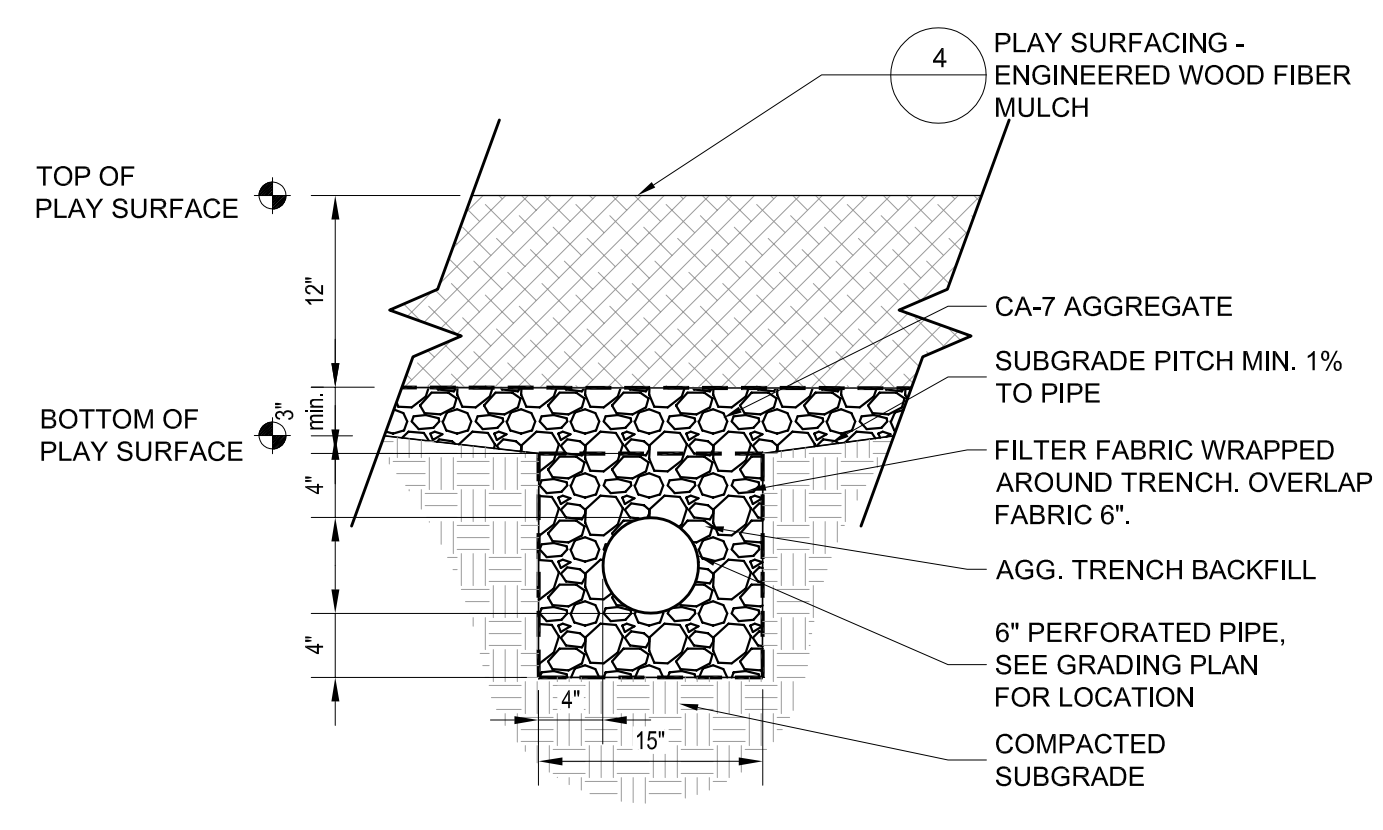


NOTES:
 1. PREFORMED FLEXIBLE FOAM EXPANSION JOINT FILLER NOT ACCEPTED.
 2. EACH EXPANSION JOINT SHALL HAVE (2) 3" DOWEL BARS, 18" LONG AND PROPERLY LUBRICATED, PLACED AT MID DEPTH.
 3. EXPANSION JOINTS 3/8" THICK SHALL BE WHERE PROPOSED CONCRETE MEETS EXISTING CONCRETE, AT 50 FT INTERVALS FOR HAND POURS AND 100 FT INTERVALS FOR SLIP OR MONOLITHIC POURS.
 4. EXPANSION JOINTS 1/2" THICK SHALL BE AT EVERY P.C. & P.T. OF CURVATURE, 5 FT EACH SIDE OF STRUCTURES, AND AT END OF POURS.
 5. PREFORMED EXPANSION JOINT 1/2" THICK SHALL BE PLACED BETWEEN THE SIDEWALK AND ALL STRUCTURES.
 6. EXPANSION JOINTS SHALL ALSO BE PLACED WHERE THE SIDEWALK ABUTS EXISTING SIDEWALKS AND WHERE THE SIDEWALK ABUTS A CURB.
 6. EXPANSION JOINTS SHALL ALSO BE PLACED WHERE THE CURB ABUTS EXISTING CURB.

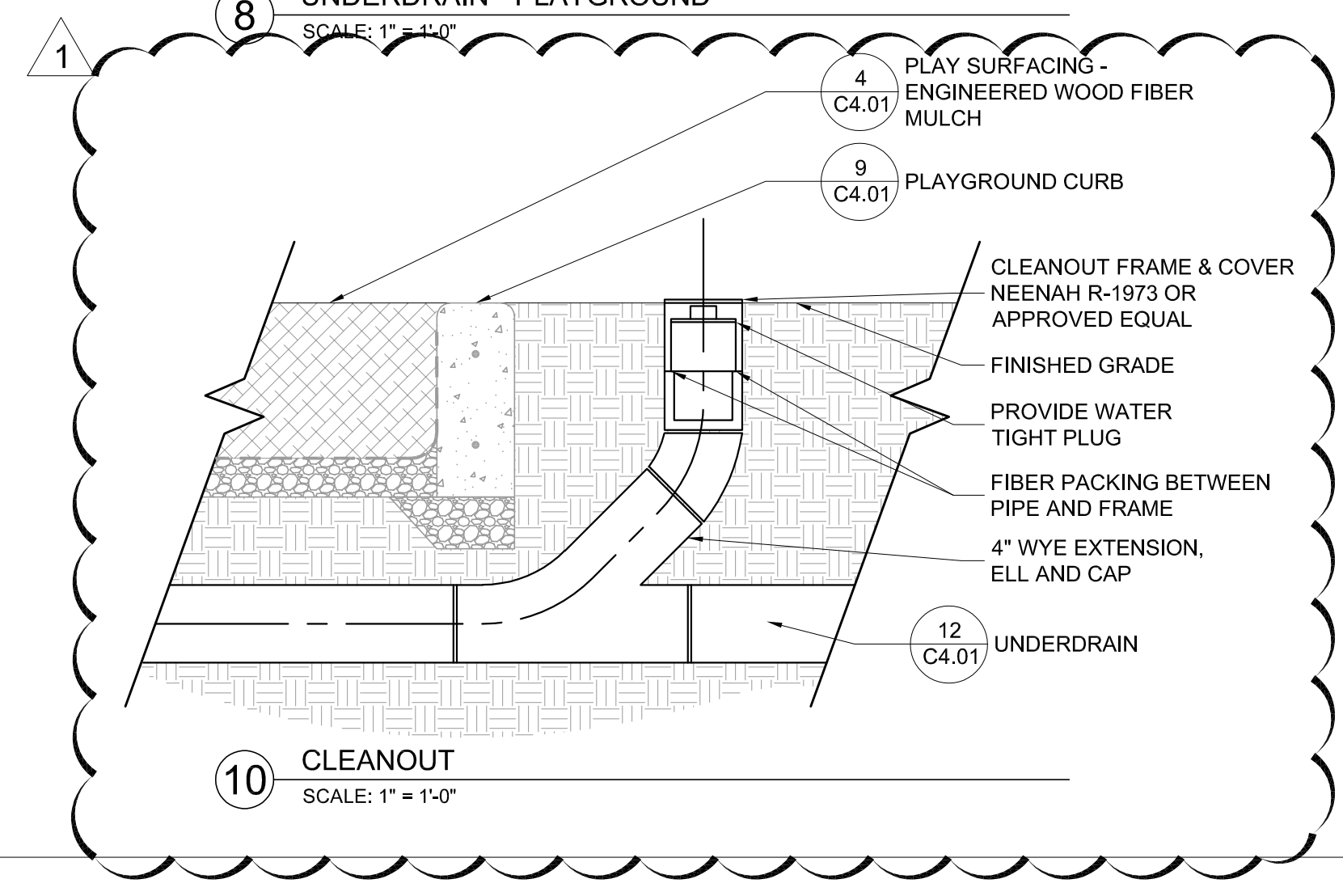
5 EXPANSION JOINT
 SCALE: 3" = 1'-0"



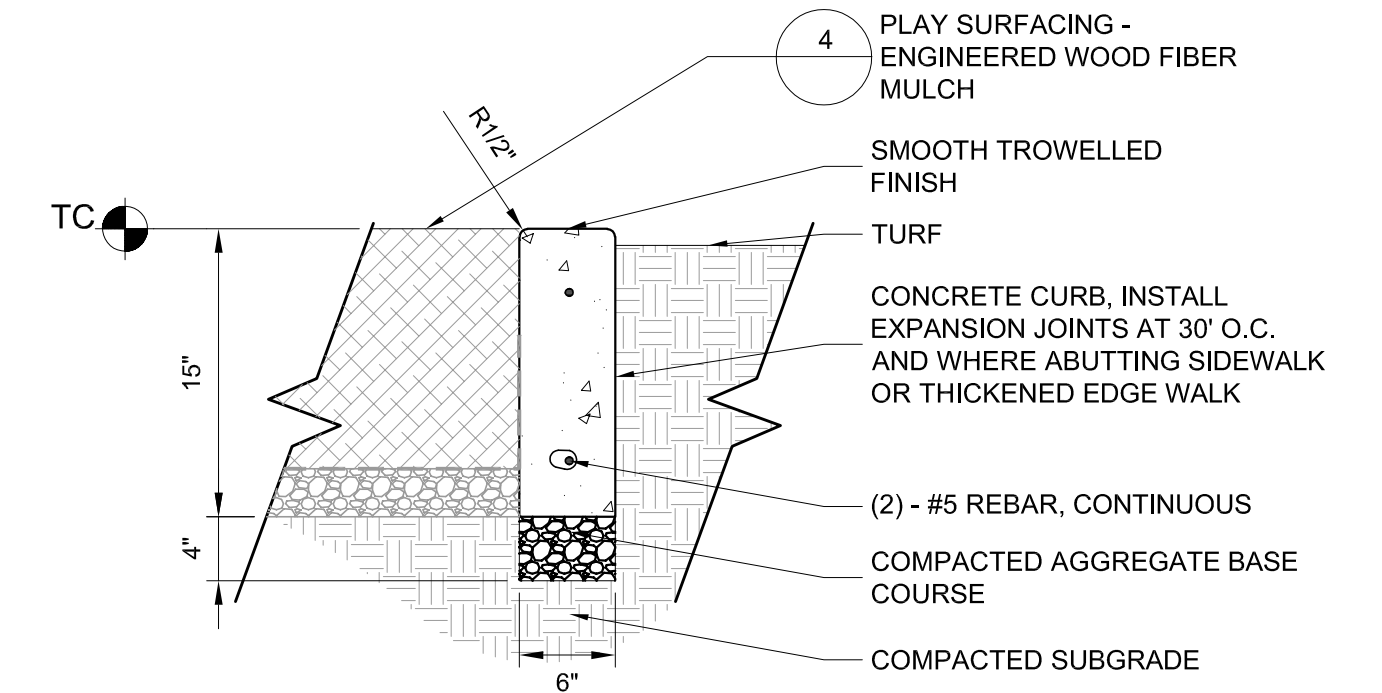
6 PLAY STRUCTURE FOOTING
 SCALE: 1"=1'-0"



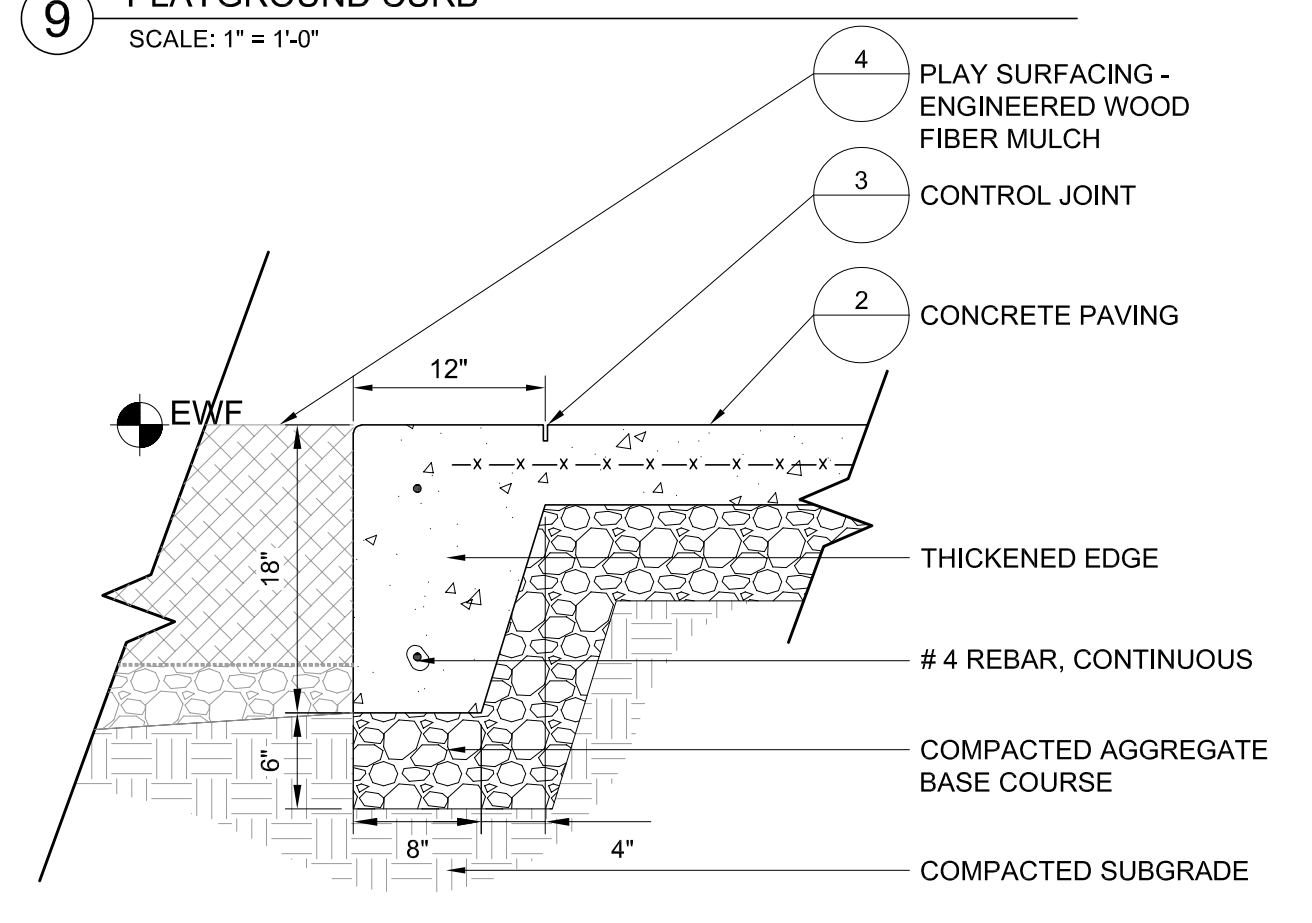
8 UNDERDRAIN - PLAYGROUND
 SCALE: 1" = 1'-0"



10 CLEANOUT
 SCALE: 1" = 1'-0"



9 PLAYGROUND CURB
 SCALE: 1" = 1'-0"



11 THICKENED EDGE CURB
 SCALE: 1"=1'-0"



DOWNERS GROVE GRADE SD 58

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ADDENDUM 1	02-27-23	
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REV	DESCRIPTION	DATE

BELLE AIRE PLAYGROUND

3935 BELLE AIRE LANE
 DOWNERS GROVE, IL 60515

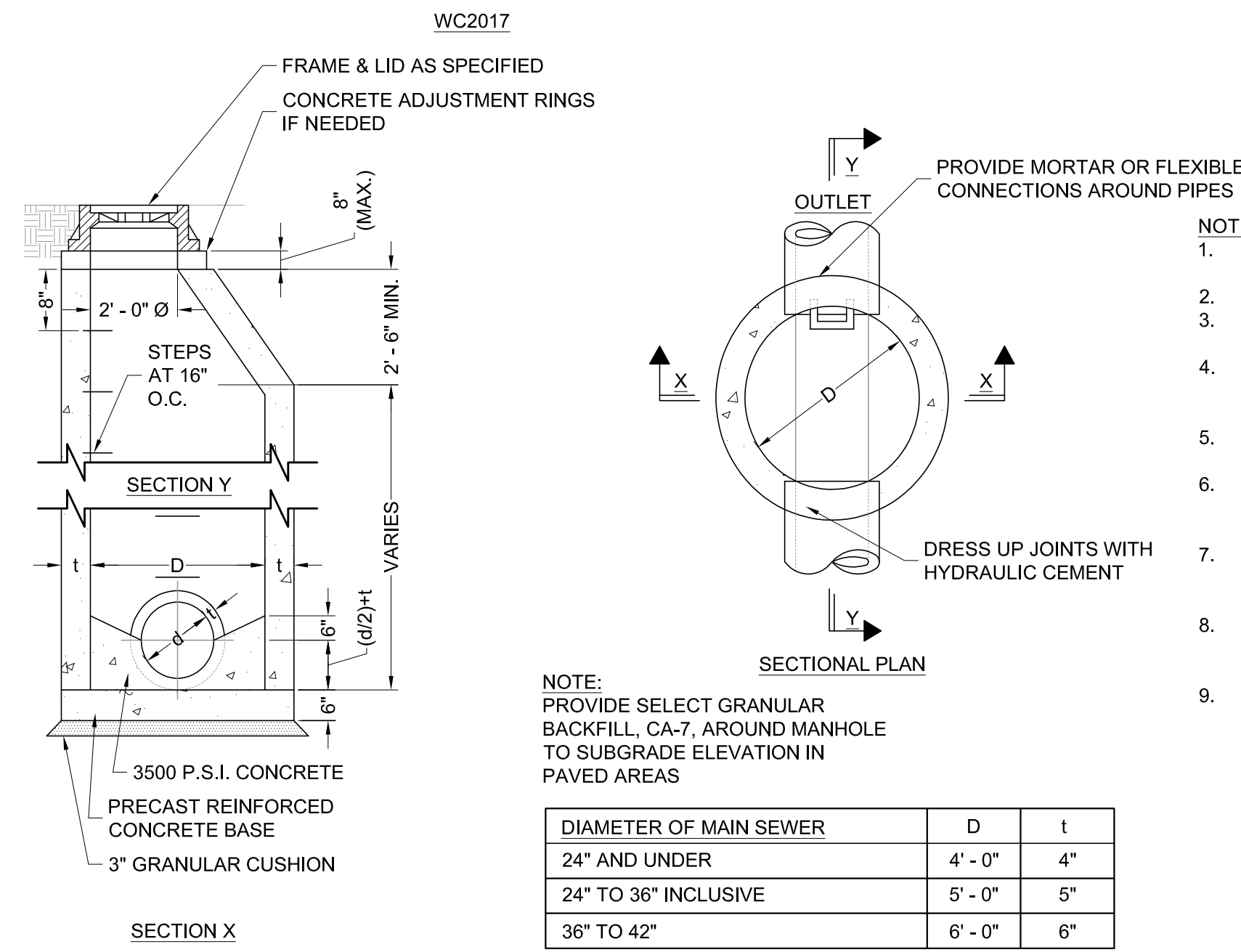
DETAILS

Project Number: 210223
 Scale:
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 Sheet:

C4.01

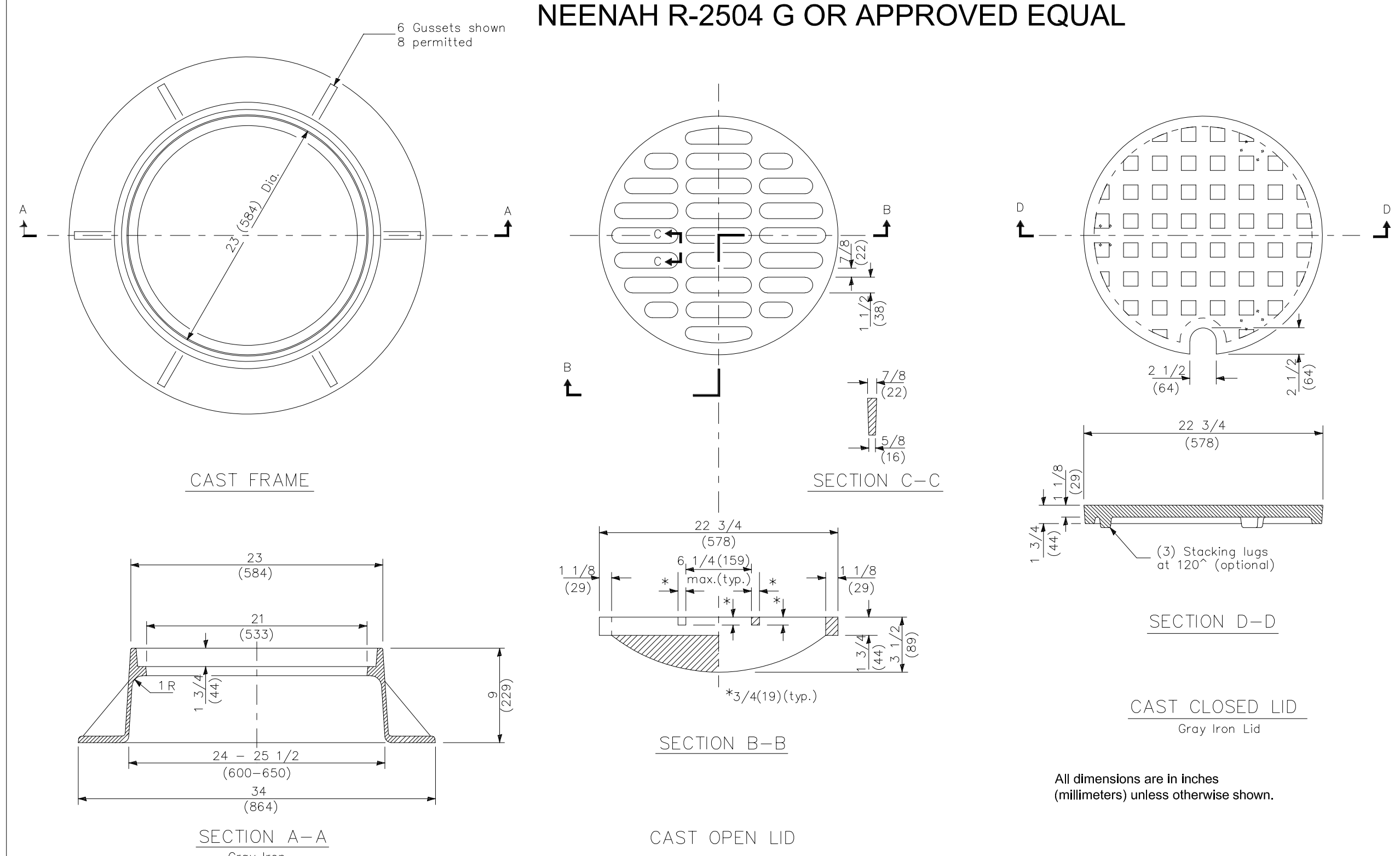
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3 STORM SEWER MANHOLE, TYPE A
SCALE: NTS

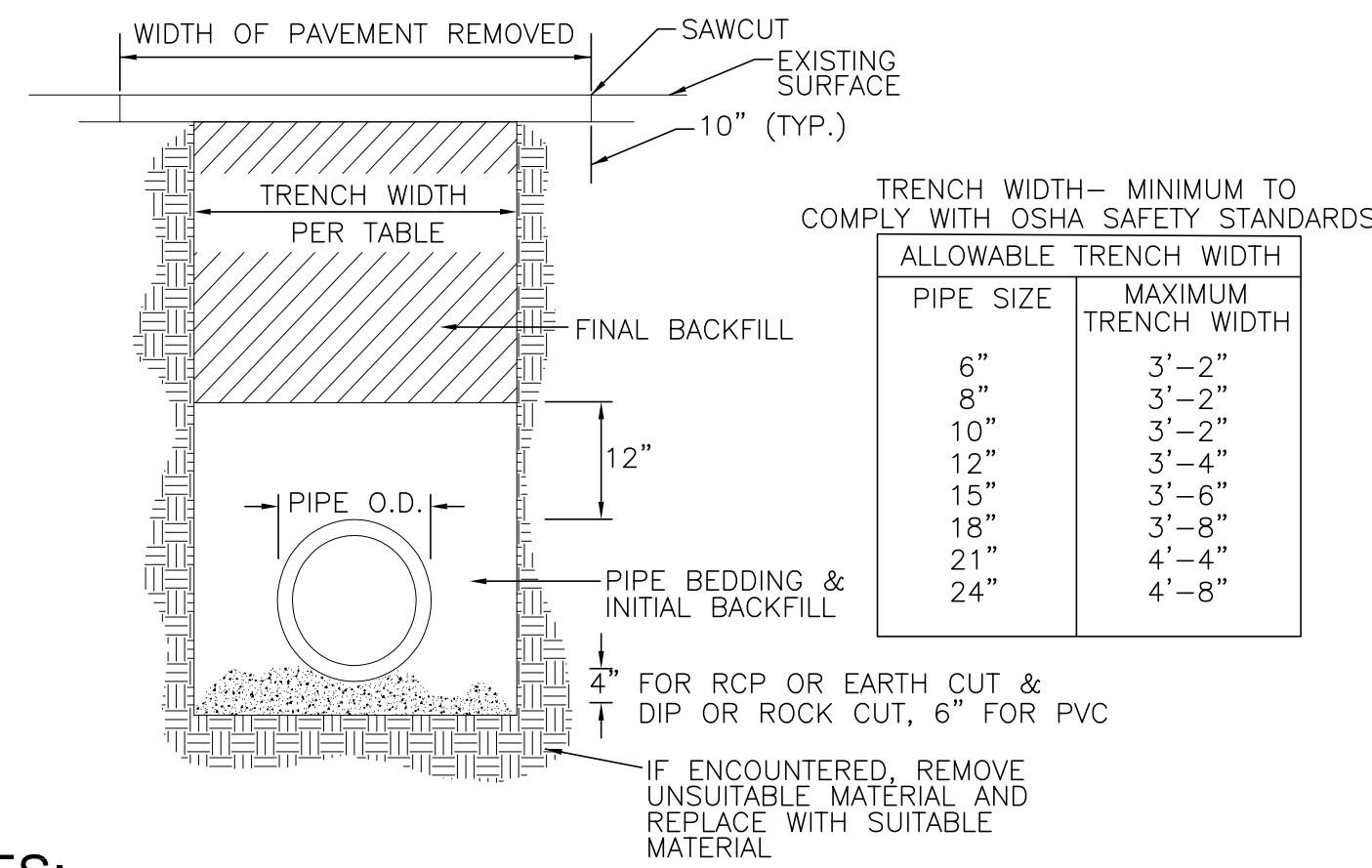


- NOTES:**
1. ALL MANHOLES SHALL BE OF PRECAST REINFORCED CONCRETE SECTIONS.
 2. PIPE OPENINGS SHALL BE CAST INTO WALL.
 3. ALL MANHOLES SHALL BE CONSTRUCTED WITH A PRECAST REINFORCED CONCRETE BASE.
 4. ALL JOINTS BETWEEN PRECAST RISER, TOP SLAB SECTIONS, ADJUSTMENT RINGS AND CASTINGS SHALL BE SEALED WITH A BITUMASTIC MATERIAL.
 5. MORTAR SHALL NOT BE USED TO DRESS UP ADJUSTING RINGS.
 6. STEPS SHALL BE EMBEDDED INTO THE WALL A MINIMUM OF 4 INCHES AND SHALL NOT BE EXTENDED ON THE OUTSIDE.
 7. FRAME AND LID CASTINGS SHALL BE AS SPECIFIED ON THE PLANS. THE WORD "STORM" SHALL BE CAST IN THE LID.
 8. THE CONTRACT UNIT PRICE FOR MANHOLES SHALL INCLUDE THE FRAME AND LID, STEPS AND THE GRANULAR CUSHION.
 9. WHERE A FLAT TOP IS REQUIRED, IT SHALL BE PRECAST AND CONFORM TO IDOT STANDARDS.

2 FRAME AND LIDS TYPE 1



3 PIPE BEDDING & BACKFILL - STORM SEWER
SCALE: NTS



- NOTES:**
1. TRENCH WIDTH - MINIMUM TO COMPLY WITH OSHA SAFETY STANDARDS.
 2. REINFORCING OF RESTORED PAVEMENT MUST MATCH EXISTING.
 3. RESTORATION TO ORIGINAL SURFACE REQUIRED, NO CONCRETE PATCHES ON ASPHALT ROADS.
 4. STREETS MUST REMAIN OPEN TO TRAFFIC WORK ON ONLY ONE HALF OF STREET ALLOWED AT A TIME.
 5. CONTRACTORS SHALL ERECT AND MAINTAIN SUFFICIENT AND SUITABLE SIGNS AND BARRICADES DURING AND AFTER CONSTRUCTION.
 6. STREETS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION WITHIN 72 HOURS FROM THE TIME THE WORK COMMENCED. STREET OPENINGS SHALL BE BACKFILLED WITH APPROVED GRANULAR MATERIAL AND A TEMPORARY PAVEMENT SURFACE OF COMPACTED COLD ASPHALT MATERIAL SHALL BE INSTALLED WITHIN 24 HOURS FROM THE TIME THE WORK COMMENCED.
 7. A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE MUNICIPALITY BEFORE BACKFILLING AND RESTORATION WORK ARE TO COMMENCE.

PIPE BEDDING & INITIAL BACKFILL
FOR PVC AND HDPE, CRUSHED STONE (IDOT CA-11 OR CA-13) TO 1 FOOT OVER PIPE. FOR RCP & DIP, CA-6 TO SPRING LINE. PLACE IN MAXIMUM 6" LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY PER AASHTO T-99.

FINAL BACKFILL
IN PAVEMENT AREAS AND WHERE TRENCH FALLS WITHIN A 1 TO 1 SLOPE EXTENDED FROM THE EDGE OF THE PAVEMENT, MATERIAL SHALL BE TRENCH-BACKFILL (CA-6 PER I.D.O.T. SPECS.) COMPACTED TO 95% STANDARD PROCTOR DENSITY PER AASHTO T-99.

IN AREAS WHERE GRASS IS REMOVED AND PARKWAY RESTORATION IS REQUIRED LANDSCAPE FABRIC SHALL BE PLACED BETWEEN THE BACKFILLED MATERIAL AND THE REQUIRED TOPSOIL AS DIRECTED BY THE MUNICIPAL DIRECTOR OF PUBLIC WORKS.

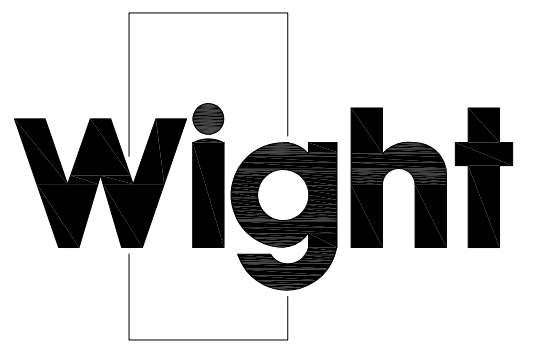
IN LANDSCAPE AREAS MATERIAL SHALL BE SELECT, EXCAVATED MATERIAL, FREE OF ROCKS AND DEBRIS COMPACTED TO 85% STANDARD PROCTOR DENSITY PER AASHTO T-99.

UTILITY CROSSINGS
AT UTILITY CROSSINGS, INSTALL TRENCH BACKFILL AS ABOVE, FROM THE PIPE BEDDING TO 1 FOOT OVER THE HIGHER PIPE. SUCH A GRANULAR CRADLE SHALL BE CONSTRUCTED REGARDLESS OF WHETHER THE CROSSING OCCURS IN PAVED OR LANDSCAPED AREAS.

WHERE UTILITY CROSSINGS INCLUDE A WATER MAIN, USE CLASS IV COMPACTED SELECT EXCAVATED MATERIAL BETWEEN PIPES AS REQUIRED BY THE STANDARD SPECIFICATIONS FOR SEWER & WATER MAIN CONSTRUCTION IN ILLINOIS, STANDARD DRAWINGS 19 THROUGH 24.



DOWNERS GROVE GRADE SD 58



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ADDENDUM 1	02-27-23	
ISSUED FOR BID	02-16-23	
ISSUED FOR PERMIT	01-26-23	
REV	DESCRIPTION	DATE

**BELLE AIRE
PLAYGROUND**

3935 BELLE AIRE LANE
DOWNERS GROVE, IL 60515

DETAILS

Project Number: 210223
Scale:
Drawn By:
DE
Sheet:

C4.02

GENERAL

- EXISTING SITE TOPOGRAPHY, UTILITIES, AND HORIZONTAL CONTROL SHOWN ON THE DRAWINGS WERE FIELD MEASURED BY CIVIL & ENVIRONMENTAL ENGINEERS, INC. CONSULTANTS. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS ARE BASED ON BEST AVAILABLE INFORMATION. TRADE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITY LOCATIONS, INVERTS, RIMS, PIPE SIZE, MATERIAL TYPE, ETC. PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- ELEVATIONS ARE BASED ON ILLINOIS STATE PLANE COORDINATE SYSTEM NAVD 88 DATUM.
- THE TRADE CONTRACTOR SHALL SUBSCRIBE TO ALL GOVERNING REGULATIONS AND SHALL ABIDE BY THE REQUIREMENTS OF ALL APPLICABLE PERMITS.
- ALL APPLICABLE PROVISIONS OF THE CURRENT OCCUPATIONAL HEALTH AND SAFETY ACT ARE HEREIN INCORPORATED BY REFERENCE.
- NO BURNING OR INCINERATION OF RUBBISH IS PERMITTED ON THE SITE.
- STREET AND DRIVEWAY PAVEMENT SHALL BE PROTECTED FROM DAMAGE. ANY DAMAGE SHALL BE REPAIRED PER THE VILLAGE OF DOWNERS GROVE REQUIREMENTS. MATERIALS AND WORKMANSHIP OF REPAIRS SHALL CONFORM TO THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS (LATEST EDITION), THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS (LATEST EDITION), HEREIN AFTER REFERRED TO AS "STANDARD SPECIFICATIONS" AND THE VILLAGE OF DOWNERS GROVE REQUIREMENTS.
- THE "DEVELOPMENT REGULATIONS", LATEST EDITION, AS ADOPTED BY THE VILLAGE OF DOWNERS GROVE, ILLINOIS, HEREIN AFTER REFERRED TO AS THE "DEVELOPMENT REGULATIONS" INCLUDING ALL VILLAGE STANDARD DETAILS AND SPECIFICATIONS; THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) AND THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS (LATEST EDITION)" PREPARED BY ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT), HEREIN AFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"; AND ILLINOIS ENVIRONMENTAL PROTECTION AGENCY ILLINOIS URBAN MANUAL, LATEST EDITION, AND "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", HEREIN AFTER REFERRED TO AS "ISPE STANDARDS" SHALL GOVERN THE CONSTRUCTION OF THESE IMPROVEMENTS EXCEPT AS MODIFIED BY THE CONTRACT DOCUMENTS.
- ALL CONNECTIONS TO EXISTING UTILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REGULATIONS OF THE VILLAGE OF DOWNERS GROVE, ILLINOIS AND THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, HEREIN AFTER REFERRED TO AS ISPE STANDARDS.
- ALL FACILITIES OR LANDSCAPING DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION BY THE RESPONSIBLE TRADE CONTRACTOR.
- PROPOSED ELEVATIONS INDICATE FINISHED GRADES. FOR SUBGRADE ELEVATIONS, ALLOW FOR THICKNESS OF PROPOSED PAVING OR TOPSOIL THICKNESS.
- THE TRADE CONTRACTOR SHALL NOTIFY THE VILLAGE OF DOWNERS GROVE, ILLINOIS 48 HOURS BEFORE THE COMMENCEMENT OF CONSTRUCTION.
- SHOULD THE TRADE CONTRACTOR ENCOUNTER FIELD DRAINAGE TILE NOT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER AND THE VILLAGE OF DOWNERS GROVE FOR INSTRUCTIONS. SHOULD THE ENGINEER OR VILLAGE OF DOWNERS GROVE INSTRUCT THAT DAMAGED FIELD TILES BE RESTORED TO THEIR ORIGINAL CONDITION, THAT REPAIR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THE LOCATION OF FOUND DRAINAGE TILE SHALL BE INDICATED ON THE RECORD DRAWING.
- ALL TRENCHES SHOULD FOLLOW THE VILLAGE OF DOWNERS GROVE STANDARD DETAILS INCLUDED IN THE CIVIL DETAILS. TRENCHES ARE TO BE BACKFILLED WITH TRENCH BACKFILL AND COMPACTED TO 95% MODIFIED PROCTOR DENSITY, AS REQUIRED BY THE VILLAGE OF DOWNERS GROVE AND THE ISPE STANDARDS.
- TRADE CONTRACTOR IS RESPONSIBLE FOR CALLING J.U.L.L.E. AT 1-800-892-0123 OR 811 AND NOTIFYING THE CONSTRUCTION MANAGER AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING UTILITY MARKINGS THROUGHOUT CONSTRUCTION.
- ALL DIMENSIONS, CURB RADII AND ELEVATIONS REFER TO THE BACK OF CURB WHERE CURB IS SHOWN. COORDINATES ARE TO BACK OF CURB, CENTER OF STRUCTURES OR AS SHOWN.
- WHERE PAVEMENT, CURB OR SIDEWALK REMOVAL IS REQUIRED, THE TRADE CONTRACTOR SHALL SAW CUT THE BOUNDARIES OF THE AREA TO BE REMOVED PRIOR TO DEMOLITION.
- TRADE CONTRACTOR IS RESPONSIBLE FOR LAYOUT, LINE AND GRADE FOR ITEMS INCLUDED IN THE CONTRACT SCOPE OF WORK. CONTRACTOR TO USE CAD FILES AS PROVIDED BY THE ENGINEER FOR GEOMETRIC LAYOUT.
- TRADE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE PUBLIC STREET CLEAN OF DEBRIS.
- "BAND SEAL" JOINTS WITH STAINLESS STEEL STRAPS AND BOLTS SHALL BE USED WHEN CONNECTING DISSIMILAR MATERIALS.
- ALL EXISTING UTILITY STRUCTURES SHALL BE ADJUSTED AS NECESSARY TO MATCH FINISH GRADE. ALL EXISTING UTILITY STRUCTURES REQUIRING ADJUSTMENT OR RECONSTRUCTION SHALL BE COMPLETED BY THE CONTRACTOR TO THE SATISFACTION OF THE UTILITY OWNER. ADJUSTMENTS AND/OR RECONSTRUCTIONS NOT CALLED FOR ON THE PLANS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. NO MORE THAN A TOTAL OF 12 INCHES OF ADJUSTING RINGS AND/OR 2 ADJUSTING RINGS SHALL BE ALLOWED.
- IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT IN LOCATION AND/OR ELEVATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND CONSTRUCTION MANAGER SO THAT THE CONFLICT MAY BE RESOLVED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL AS-BUILT SURVEYS. ALL AS-BUILT SURVEYS SHALL BE COMPLETED BY A PROFESSIONAL LAND SURVEYOR AND BE SIGNED AND SEALED. THE GRADING AND UTILITY CONSTRUCTION PLANS SHOULD BE USED AS THE BACKGROUND FOR ALL AS-BUILTS. THE CONTRACTOR SHALL SUBMIT TWO SETS OF THE "AS-BUILT" FINAL ENGINEERING DRAWINGS, RECORD DRAWINGS AND STORMWATER MANAGEMENT CALCULATIONS UPON COMPLETION OF IMPROVEMENTS AND INCLUDE ELECTRONIC CAD FILES. THE RECORD DRAWINGS SHOULD AT LEAST INCLUDE THE FOLLOWING INFORMATION: AS-BUILT DETENTION CONTOURS, ELEVATIONS (INCLUDING DETENTION BASIN TOP OF BERM AND OVERFLOW WEIR GRADES) AND VOLUME (VERIFIED, SIGNED & SEALED BY A PROFESSIONAL ENGINEER (PE) OR PROFESSIONAL LAND SURVEYOR (PLS)); ELEVATION, AND LOCATION (TIES TO TWO POINTS) OF ALL NEW STRUCTURES INCLUDING FIRE HYDRANTS, VALVE BOXES AND VAULTS, LINES/POST SLEEVES, WATER SERVICE CORPORATION STOPS, WATER MAIN FITTINGS, MANHOLES, SANITARY SERVICE WYES (MEASURED FROM DOWNSTREAM MANHOLE), ALL STORM/SANITARY SEWER STRUCTURES (INCLUDING INVERTS AND PIPE SIZES), ALL PIPES (LOCATIONS, SLOPES, LENGTHS, ETC.), OUTLET CONTROL STRUCTURES (INCLUDING STRUCTURE SIZES AND ELEVATIONS PLUS TOP OF WALL) AND ABANDONED WATER OR SANITARY SERVICE LINES. DETAILED TOPOGRAPHIC SURVEY OF ALL HIGH POINTS, LOW POINTS, CHANGE OF SLOPE INCLUDING GUTTER GRADES, TOP OF CURB GRADES, PAVEMENT GRADES, SIDEWALK GRADES, RAMP GRADES, ETC. TO VERIFY POSITIVE DRAINAGE. ALL ELEVATIONS SHOULD BE REFERENCED TO THE SAME BENCHMARK DATUM AS THE ORIGINAL DESIGN PLANS. HORIZONTAL TIES SHALL BE REFERENCED TO LOT LINES, BACK OF CURB, OR PROPERTY CORNERS. WITHIN DETENTION/IMP AREAS: FOR VERIFICATION OF DETENTION VOLUME AND SUBBASE GRADES, PRIOR TO BACK FILLING WITH CA-7, THE CONTRACTOR SHALL PROVIDE ENGINEER WITH A CERTIFIED TOP SURVEY OF AS-BUILT SUBBASE GRADES FOR ENGINEER APPROVAL AND ALSO A COPY OF RECEIPT OF THE CA-7 AGGREGATE.
- EMERGENCY VEHICLE ACCESS IS TO BE MAINTAINED THROUGHOUT DURATION OF PROJECT. VEHICLE ACCESS IS TO BE CLEARLY MARKED. ANY ALTERATION OF EMERGENCY VEHICLE ROUTE OR ACCESS IS TO BE APPROVED BY THE VILLAGE OF DOWNERS GROVE, ILLINOIS.

TRAFFIC CONTROL

- THE TRADE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL (IDOT STANDARD 701006) AT ALL TIMES WHEN ANY VEHICLES, EQUIPMENT, WORKER, OR ACTIVITY ENROUCH ADJACENT ROADWAYS FROM 15 FEET TO THE EDGE OF PAVEMENT. THE TRADE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL (IDOT STANDARD 701501) WHEN ACTIVITY ENROACHES THE EDGE OF PAVEMENT FOR THESE ROADS.
- IF THE OPERATION IS 15 FEET OR MORE, OFF THE EDGE OF PAVEMENT, NO SIGNING WILL BE REQUIRED UNLESS TWO OR MORE VEHICLES CROSS THE 15 FOOT CLEAR ZONE IN ONE HOUR.
- WHEN WORKING WITHIN 2 FEET OF THE PAVEMENT EDGE, CONES, DRUMS, OR BARRICADES SHALL BE PLACED ACCORDING TO THE STANDARD 701101 REQUIREMENTS.
- CONTRACTOR MUST FOLLOW ALL VILLAGE OF DOWNERS GROVE AND DUPAGE COUNTY DEPARTMENT OF TRANSPORTATION REQUIREMENTS FOR TRAFFIC CONTROL.

HOT MIX ASPHALT PAVING

- SUBGRADE PREPARATION, BASE COURSE PLACEMENT, AND HMA PAVEMENT SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS AND RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
- DEPRESSIONS OF FINAL HMA SURFACES SHALL NOT EXCEED 1/4 INCH FROM PROPOSED CORRECTIONS TO NON-COMPLIANT AREAS ORDERED BY THE CONSTRUCTION MANAGER SHALL BE MADE AT NO ADDITIONAL CHARGE.
- ALL SIGNAGE AND STRIPING SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.

STORM SEWER

- CONTRACTOR TO FOLLOW ALL VILLAGE OF DOWNERS GROVE REQUIREMENTS.
- ALL STORM STRUCTURES AND SEWERS ARE TO BE CLEANED PRIOR TO FINAL ACCEPTANCE. THE TRADE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING SEDIMENT FROM THE STORM SEWER STRUCTURES AND PIPES DURING CONSTRUCTION AND UNTIL 90% OF VEGETATION IS ESTABLISHED.
- MANHOLES, CATCH BASINS, INLETS, BEDDINGS AND TRENCH BACKFILL SHALL CONFORM TO THE CONSTRUCTION DETAILS, STANDARD SPECIFICATIONS AND ISPE SPECIFICATIONS.
- ALL STORM SEWER SHOULD BE PVC SDR 26 OR STRONGER.

EARTHWORK

- ALL AREAS SHALL BE CLEARED AND TILLED IN PREPARATION TO RECEIVE SEED. REFER TO SPECIFICATIONS FOR REQUIREMENTS.
- THE TRADE CONTRACTOR SHALL APPLY FERTILIZER AND SEED TO ALL DISTURBED AREAS, AS NOTED ON THE CONSTRUCTION DRAWINGS. TRADE CONTRACTOR SHALL APPLY FERTILIZER AND SEED USING THE HYDROSEED METHOD. FERTILIZER AND SEED QUANTITIES AND SEEDING PROCEDURES SHALL CONFORM TO THE SPECIFICATIONS.
- THE TRADE CONTRACTOR WILL INSPECT THE SEEDED AREAS AFTER SEEDING, TO RECEIVE FINAL ACCEPTANCE. SEEDED AREAS MUST SUPPORT DENSE, THRIVING GRASSES SUFFICIENT TO PROTECT THE SOIL FROM EROSION IN A MODERATE RAINFALL AREAS THAT, IN THE OPINION OF THE OWNER & ENGINEER, DO NOT MEET THIS REQUIREMENT, MUST BE IMMEDIATELY RESEED, REFER TO SPECIFICATIONS FOR ALL REQUIREMENTS.
- TOPSOIL FOR RESTORATION AREAS SHALL COMPLY WITH THE STANDARD SPECIFICATIONS. TOPSOIL MAY BE SALVAGED FROM THE SITE AND STOCKPILED FOR REUSE WHEN ALL WORK IS COMPLETED. ADDITIONAL TOPSOIL REQUIRED TO COMPLETE THE JOB SHALL BE OBTAINED FROM OFF-SITE SOURCES AT THE TRADE CONTRACTOR'S EXPENSE. SALVAGED TOPSOIL SHALL BE SUBJECT TO THE ENGINEER'S APPROVAL AND WILL BE REJECTED IF NOT CLEAN, UNCONTAMINATED MATERIAL.
- THE CROWNS AND ROOT OF TREES WHICH ARE TO BE PRESERVED IN THE PROJECT AREA, BUT WHICH COULD BE NEGATIVELY AFFECTED DURING THE CONSTRUCTION PROCESS, SHALL BE PRUNED BY A QUALIFIED ARBORIST ACCORDING TO THE TREE PRUNING STANDARDS SET BY ANSI Z100 CODE.
- POROUS GRANULAR EMBANKMENT, SUBGRADE

THIS WORK CONSISTS OF FURNISHING, PLACING, AND COMPACTING POROUS GRANULAR MATERIAL AS DIRECTED BY THE ENGINEER. POROUS GRANULAR EMBANKMENT SHALL CONSIST OF CA-1 AGGREGATE CAPPED WITH A 3 INCHES NOMINAL THICKNESS TOP LIFT OF CA-4 CAPPING AGGREGATE. THE MATERIAL SHALL BE USED AS A BRIDGING LAYER OVER SOFT, PUMPY, AND LOOSE SOIL AND SHALL CONFORM.

THE POROUS GRANULAR MATERIAL SHALL BE PLACED IN ONE LIFT WHEN THE TOTAL THICKNESS TO BE PLACED IS 2 FEET OR LESS OR AS DIRECTED BY THE ENGINEER. EACH LIFT OF THE POROUS GRANULAR MATERIAL SHALL BE ROLLED WITH A VIBRATORY ROLLER MEETING THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS TO OBTAIN THE DESIRED KEYING OR INTERLOCK AND COMPACTION. THE ENGINEER SHALL VERIFY THAT ADEQUATE KEYING HAS BEEN OBTAINED.

CONSTRUCTION EQUIPMENT NOT NECESSARY FOR THE COMPLETION OF THE REPLACEMENT MATERIAL WILL NOT BE ALLOWED ON THE UNDERCUT AREAS UNTIL COMPLETION OF THE RECOMMENDED THICKNESS OF THE POROUS GRANULAR EMBANKMENT SUBGRADE.

FULL DEPTH SUBGRADE UNDERCUT SHOULD OCCUR AT LIMITS DETERMINED BY THE ENGINEER. A TRANSITION SLOPE TO THE FULL DEPTH OF UNDERCUT SHALL BE MADE OUTSIDE OF THE UNDERCUT LIMITS AT A TAPER OF 1 FOOT LONGITUDINAL PER 1 INCH DEPTH BELOW THE PROPOSED SUBGRADE OR BOTTOM OF THE PROPOSED AGGREGATE SUBGRADE WHEN INCLUDED IN THE CONTRACT.

THIS WORK WILL BE MEASURED FOR PAYMENT IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, WHEN SPECIFIED ON THE CONTRACT, THE THEORETICAL ELEVATION OF THE BOTTOM OF THE AGGREGATE SUBGRADE SHALL BE USED TO DETERMINE THE UPPER LIMIT OF POROUS GRANULAR EMBANKMENT, SUBGRADE. THE VOLUME WILL BE COMPUTED BY THE METHOD OF AVERAGE END AREAS.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR POROUS GRANULAR EMBANKMENT, SUBGRADE WHICH PRICE SHALL INCLUDE THE CAPPING AGGREGATE, WHEN REQUIRED.

THE POROUS GRANULAR EMBANKMENT, SUBGRADE SHALL BE USED AS FIELD CONDITIONS WARRANT AT THE TIME OF CONSTRUCTION.

- SPECIAL EXCAVATION

WORK UNDER THIS ITEM SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS EXCEPT AS HEREIN MODIFIED.

SPECIAL EXCAVATION SHALL INCLUDE THE SATISFACTORY REMOVAL AND OFF-SITE DISPOSAL OF ALL UNSUITABLE MATERIAL BELOW THE SUBGRADE ELEVATION.

AFTER EXCAVATING TO THE REQUIRED SUBGRADE LEVEL, THE ENGINEER & GEOTECH ENGINEER SHALL INSPECT THE SUBGRADE. PRIOR TO PLACING ANY PAVEMENT SECTION MATERIAL THE EXCAVATION LEVEL OR SUBGRADE LEVEL SHALL BE COMPACTED AND, WHERE POSSIBLE, PROOF ROLLED WITH A 40,000 LB TANDEM AXLE TRUCK BY MAKING AT LEAST 4 PASSES. THE COMPACTING AND PROOF ROLLING WILL DETECT SOFT OR UNSTABLE POCKETS OF MATERIAL WHICH SHALL BE REMOVED AND REPLACED AS HEREIN SPECIFIED. THE COMPACTING AND PROOF ROLLING SHALL BE INCIDENTAL TO THE WORK AND NO ADDITIONAL COMPENSATION WILL BE PAID.

IF THE EXISTING SUBGRADE SOIL IS NOT SUITABLE FOR PROVIDING AN IBR SOIL SUPPORT VALUE OF 2, THE TRADE CONTRACTOR SHALL REMOVE THE UNSUITABLE SUBGRADE SOIL BELOW THE PROPOSED SUBGRADE LEVEL TO A DEPTH AS DIRECTED BY THE ENGINEER. COMPACT AND PROOF ROLL THE EXCAVATED AREA. IF UPON PROOF ROLLING THE SUBGRADE IS STILL UNSUITABLE, ADDITIONAL EXCAVATION MAY BE REQUIRED. NO ADDITIONAL COMPENSATION WILL BE MADE REGARDLESS OF THE NUMBER OF TIMES THE AREA IS COMPACTED AND PROOF ROLLED.

CA-1 SHALL BE USED TO BRING THE SUBGRADE TO THE PROPOSED ELEVATION AS INDICATED UNDER THE ITEM POROUS GRANULAR EMBANKMENT, SUBGRADE, POROUS GRANULAR EMBANKMENT, SUBGRADE IS NOT CONSIDERED PART OF THIS ITEM.

THOSE AREAS OF SUBGRADE WHICH ARE NOT OVER EXCAVATED SHALL ALSO BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.

SPECIAL EXCAVATION AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER WILL BE MEASURED FOR PAYMENT IN PLACE AND THE VOLUME IN CUBIC YARDS COMPUTED BY THE METHOD OF AVERAGE END AREAS. EXCAVATION IN EXCESS OF THAT AUTHORIZED SHALL NOT BE MEASURED FOR PAYMENT.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT CUBIC YARD FOR SPECIAL EXCAVATION, WHICH PRICE SHALL INCLUDE ALL COSTS ASSOCIATED WITH UNSUITABLE MATERIAL REMOVAL AND LEGAL DISPOSAL, GRADING COMPACTING AND PROOF ROLLING OF SUBGRADE.

- THE OWNER IS REQUIRED TO HAVE A GEOTECHNICAL ENGINEER ON-SITE TO MONITOR EARTHWORK, AND THE GRADING ACTIVITY, IN ORDER TO IDENTIFY UNSUITABLE SOILS FOR REMOVAL FROM THE SITE. CONTRACTOR TO ENSURE REQUIREMENTS ARE MET.

SEDIMENT AND EROSION CONTROL

- AN INITIAL SEDIMENTATION AND EROSION CONTROL INSPECTION IS REQUIRED PRIOR TO STARTING CONSTRUCTION. THE APPLICANT IS DIRECTED TO CONTACT THE COMMUNITY DEVELOPMENT DEPARTMENT AT 630-434-5529 TO SCHEDULE THIS INSPECTION; THIS NOTIFICATION SHALL BE AT LEAST 24 HOURS IN ADVANCE OF CONSTRUCTION.
- THE SEDIMENT AND EROSION CONTROL DEVICES SHALL BE FUNCTIONAL BEFORE ANY LAND IS DISTURBED ON THE SITE.
- STOCKPILES OF SOIL SHALL NOT BE LOCATED WITHIN ANY DRAINAGE WAYS, FLOODPLAINS, WETLANDS, BUFFERS OR LPDAS.
- SEDIMENT AND EROSION CONTROL SHALL BE PROVIDED FOR ANY SOIL STOCKPILE IF IT IS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS INCLUDING A DOUBLE ROW OF SILT FENCE OR COIR ROLL.
- PROPERTIES DOWNSTREAM FROM THE SITE SHALL BE PROTECTED FROM EROSION IF THE VOLUME, VELOCITY, SEDIMENT LOAD, OR PEAK FLOW RATES OF STORMWATER RUNOFF ARE TEMPORARILY INCREASED DURING CONSTRUCTION.
- STORM SEWER INLETS SHALL BE PROTECTED WITH SEDIMENT TRAPPING OR FILTER CONTROL DEVICES DURING CONSTRUCTION.
- THE SURFACE OF STRIPPED AREAS SHALL BE PERMANENTLY OR TEMPORARILY PROTECTED FROM SOIL EROSION WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED. STRIPPED AREAS THAT WILL REMAIN UNDISTURBED FOR MORE THAN SEVEN (7) DAYS AFTER INITIAL DISTURBANCE SHALL BE PROTECTED FROM EROSION.
- WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DOWATERING SHALL BE FILTERED.
- A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROVIDED TO PREVENT THE DEPOSITION OF SOIL ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED BEFORE THE END OF EACH WORKDAY.
- ALL TEMPORARY EROSION CONTROL MEASURES NECESSARY TO MEET THE REQUIREMENTS OF THE VILLAGE OF DOWNERS GROVE STORMWATER AND FLOOD PLAIN ORDINANCE SHALL BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE PERIOD OF LAND DISTURBANCE UNTIL PERMANENT SEDIMENT AND EROSION AND CONTROL MEASURES ARE OPERATIONAL.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL STABILIZATION IS ACHIEVED. TRAPPED SEDIMENT AND OTHER DISTURBED SOILS RESULTING FROM TEMPORARY MEASURES SHALL BE PROPERLY DISPOSED OF PRIOR TO PERMANENT STABILIZATION.
- TRADE CONTRACTOR SHALL ABIDE BY EROSION CONTROL MEASURES OUTLINED IN THE "ILLINOIS URBAN MANUAL, LATEST EDITION" BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA).
- SILT FENCING AND OTHER EROSION CONTROL DEVICES SHALL BE INSTALLED BY THE TRADE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION ACTIVITIES TO THE LIMITS DELINEATED ON THE PLANS. NO DISTURBANCE OF LAND IS ALLOWED OUTSIDE THE SILT FENCE AND PROJECT LIMITS AS INDICATED ON THE PLANS.
- ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES MUST BE INSPECTED WEEKLY AND MAINTAINED. INSPECTIONS SHALL ALSO BE MADE AFTER A RAINFALL EVENT OF 1/2 INCH OR GREATER OR EQUIVALENT SNOW FALL EVENT. IF NECESSARY, REPAIR OR REPLACEMENT MUST BE PERFORMED IMMEDIATELY TO ASSURE EFFECTIVE PERFORMANCE OF THEIR INTENDED FUNCTIONS.
- IF DOWATERING DEVICES ARE USED, DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. ALL PUMPED DISCHARGES SHALL BE ROUTED THROUGH APPROPRIATELY DESIGNED SEDIMENT TRAPS, BASINS, SEDIMENT FILTER BAGS OR EQUIVALENT MEASURES.
- STABILIZATION OF DISTURBED AREAS MUST BE INITIATED WITHIN 1 WORKING DAY OR PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE BUT NOT LATER THAN 7 DAYS FROM THE INITIATION OF STABILIZATION WORK IN AN AREA.
- MAJOR AMENDMENTS OF THE SITE DEVELOPMENT OR EROSION AND SEDIMENTATION CONTROL PLANS SHALL BE SUBMITTED TO THE MUNICIPALITY TO BE APPROVED IN THE SAME MANNER AS THE ORIGINAL PLANS.
- THE TRADE CONTRACTOR SHALL STABILIZE THE SIDE SLOPES GREATER THAN 10:1 OR WHERE SHOWN ON THE PLANS BY INSTALLING NORTH AMERICAN GREEN SC150BN EROSION CONTROL BLANKET, WITHIN 5 DAYS AFTER FINAL GRADE IS ACHIEVED AND FOLLOWING SEEDING WITH THE TEMPORARY SEED MATRIX. THE EROSION CONTROL BLANKET SHALL BE INSTALLED AS REQUIRED BY THE MANUFACTURER'S STANDARDS AND SPECIFICATIONS.
- TEMPORARY STOCKPILES SHALL HAVE A SILT FENCE ERRECTED AROUND THE PERIMETER OF THE PILE. IF A PILE IS TO REMAIN IN PLACE FOR MORE THAN 14 DAYS, IT SHALL BE TEMPORARY SEEDED.
- SOIL STOCKPILE LOCATIONS MAY BE LOCATED BY THE CONTRACTOR AS NECESSARY ONSITE AND DO NOT NEED TO MATCH EXACT LOCATION AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN. PROVIDE SILT FENCE AROUND ALL STOCKPILE LOCATIONS. NO STOCKPILES SHALL BE PLACED IN THE PROPOSED DETENTION POND OR BE PLACED IN FLOOD PROTECTION AREAS OR THEIR BUFFERS.
- ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY EXISTING STORM DRAINAGE SYSTEM BY THE USE OF INLET PROTECTIONS/FILTER, ROCK CHECK DAMS OR OTHER APPROVED METHODS. THE TRADE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT RESULTING FROM THIS PROJECT FROM ALL SEWERS AND DRAINAGE STRUCTURES (NO FLUSHING DOWNSTREAM) UNTIL 90% OF VEGETATION IS ESTABLISHED.
- TEMPORARY SEDIMENT BARRIERS, INLET PROTECTION/FILTER PROTECTION, FOR STORM SEWER GRATES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS WITHIN THE PLANS AND THE ILLINOIS URBAN MANUAL.
- THE TRADE CONTRACTOR SHALL PRESCRIBE THE METHODS OUTLINED IN THE ILLINOIS URBAN MANUAL TO CONTROL DUST. ACCEPTABLE MEASURES INCLUDE VEGETATIVE COVER (TEMPORARY SEEDING), MULCH, IRRIGATION, STONE, AND PERMANENT VEGETATION (PERMANENT SEEDING). TEMPORARY DUST CONTROL MEASURES (BY MEANS ACCEPTABLE TO LOCAL AUTHORITIES) SHALL BE APPLIED AS NEEDED TO ACCOMPLISH DUST CONTROL.
- IF AN EXISTING ON-SITE ASPHALT ACCESS IS NOT PRESENT THEN, THE TRADE CONTRACTOR SHALL PROVIDE A CONSTRUCTION ACCESS ROAD CONSTRUCTED OF IDOT CA-1 FOR 100 FEET IN LENGTH. THE TRADE CONTRACTOR SHALL MAINTAIN THE ADJACENT ROADS FREE OF MUD AND SEDIMENT AT ALL TIMES. REFER TO THE ILLINOIS URBAN MANUAL STANDARD DRAWING IL-630.
- ALL ACCESS TO AND FROM THE CONSTRUCTION SITE IS TO BE RESTRICTED TO THE CONSTRUCTION ENTRANCE.
- TRADE CONTRACTOR IS RESPONSIBLE FOR KEEPING PUBLIC STREETS CLEAR OF DIRT, DUST, DEBRIS AND MUD ON A DAILY BASIS FOR THE ENTIRE CONSTRUCTION PERIOD BY A MEANS ACCEPTABLE TO LOCAL AUTHORITIES.
- 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.
- A SWPPP IS NOT ANTICIPATED FOR THIS DEVELOPMENT SINCE THE DISTURBED AREA IS LESS THAN 1.0 ACRES

ABBREVIATIONS

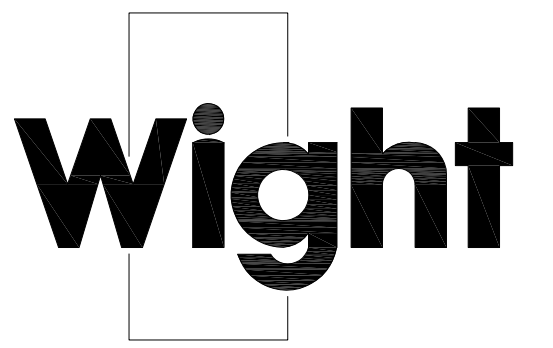
A	ARC LENGTH	MH	MANHOLE
B/C	BACK OF CURB	N.D.L	NO DISTURB LINE
B-B	BACK-TO-BACK OF CURB	N.I.C.	NOT IN CONTRACT
BI	BITUMINOUS PAVEMENT	N.W.E.	NORMAL WATER ELEVATION
B.L.	BUILDING LINE	P.I.	POINT OF INTERSECTION
B.M.	BENCH MARK	P.R.C.	POINT OF REVERSE CURVATURE
B.R.W.	BOTTOM OF RETAINING WALL	P.W.C.	POLYETHYLENE CHLORIDE
B/W	BACK OF SIDEWALK	P.T.	POINT OF TANGENCY
CHDPE	CLEAN OUT	P.L.	PROPERTY LINE
CO	CORRUGATED HIGH DENSITY POLYETHYLENE PIPE	P.C.	POINT OF CURVATURE
C & G	CURB AND GUTTER	P.V.I	POINT OF VERTICAL INTERSECTION
C.B.	CATCH BASIN	R	RADIUS
CP	CONTROL POINT	RCP	REINFORCED CONCRETE PIPE
DWG.	DRAWING	REC.	RECORD DIMENSION
D.I.P.	DUCTILE IRON PIPE	R.O.W.	RIGHT-OF-WAY
DI.A.	DIAMETER	R.T.	RIGHT
D	DISTANCE	SHT	SHEET
DC	DEPRESSED CURB	S	SLOPE
D.E.	DRAINAGE EASEMENT	STA	STATION
D.V.	DETECTION VOLUME	STMH	STORM MANHOLE
DS	DOWNSPOUT	SAN	SANITARY
ELEV./ EL.	ELEVATION	SMH	SANITARY MANHOLE
E/P	EDGE OF PAVEMENT	T.E.	TOP ELEVATION
E.J.	EXPANSION JOINT	T/C	TOP OF CURB
EX.	EXISTING	T.O.P.	TOP OF PIPE
F.G.	FINISH GRADE	T	TELEPHONE
F-F	FACE-TO-FACE OF CURB OR WALL	TRW	TOP OF RETAINING WALL
F/L	FLOW LINE	TYP	TYPICAL
F.H.	FIRE HYDRANT	U.E.	UTILITY EASEMENT
F.E.S.	FLARED END SECTION	V.C.	VERTICAL CURVE
FIP	FOUND IRON PIPE	V.I.F.	VITRIFIED HUB TILE
F/F	FINISHED FLOOR	V.B.	VALVE BOX
GAV	GAS VALVE	V.V.	VALVE VAULT
GF	GRADE AT FOUNDATION	V.C.P.	VITRIFIED CLAY PIPE
G.L.	GUTTER LINE	VER.	VERTICAL
GR	GRADE ELEVATION	W	WATER
GV/VV	GATE VALVE IN VALVE VAULT	WM	WATER MAIN
GV/VB	GATE VALVE IN VALVE BOX		
HDW	HEADWALL		
HOR.	HORIZONTAL		
H.W.E.	HIGH WATER ELEVATION		
I.E. / INV.	INVERT ELEVATION		
INL	INLET		
IRR.	IRRIGATION		
L	LENGTH		
L.P.	LIGHT POLE		
LT	LEFT		
(M)	MEASURED BEARING OR DISTANCE		
M/E	MATCH EXISTING		
M.O.	MID ORDINATE		

LEGEND

EXISTING			
	STORM SEWER		FIRE HYDRANT
	SANITARY SEWER		WATER VALVE VAULT
	WATER MAIN		WATER VALVE BOX
	TELEPHONE		WATER BUFFALO BOX
	ELECTRICAL		WATER METER
	GAS MAIN		ELECTRIC METER
	GUARD RAIL		GAS METER
	EXISTING FENCE		GAS VALVE
	STORM MANHOLE		CLEANOUT
	CATCH BASIN		VILLAGE ELEC. MH
	INLET		COMED ELEC. MH
	FLARED END SECTION		TELEPHONE MH
	SANITARY MANHOLE		SOIL BORING
	DECIDUOUS TREE		LIGHT POLE
	EVERGREEN TREE		POWER POLE
	SIGN		TELEPHONE POLE
PROPOSED			
	COMBINED SEWER		FIBER OPTIC CONDUIT
	STORM SEWER		ELECTRIC LIGHT
	SANITARY SEWER		CLEANOUT ACCESS
	WATER MAIN		FIRE HYDRANT
	TELEPHONE		WATER VALVE VAULT
	ELECTRICAL		WATER VALVE BOX
	GAS MAIN		ELECTRIC MANHOLE
	GUARD RAIL		TELEPHONE PEDESTAL
	STORM MANHOLE		GAS METER
	CATCH BASIN		DOWNSPOUT
	SANITARY MANHOLE		
	DECIDUOUS TREE		
	SIGN		
	TELEVISION		
	ELECTRIC GENERATOR		
	ELECTRIC TRANSFORMER		
	ELECTRIC METER BOX		
	SILT FENCE		
	FENCE/GATE		



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REV	DESCRIPTION	DATE
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FAIRMOUNT PLAYGROUND

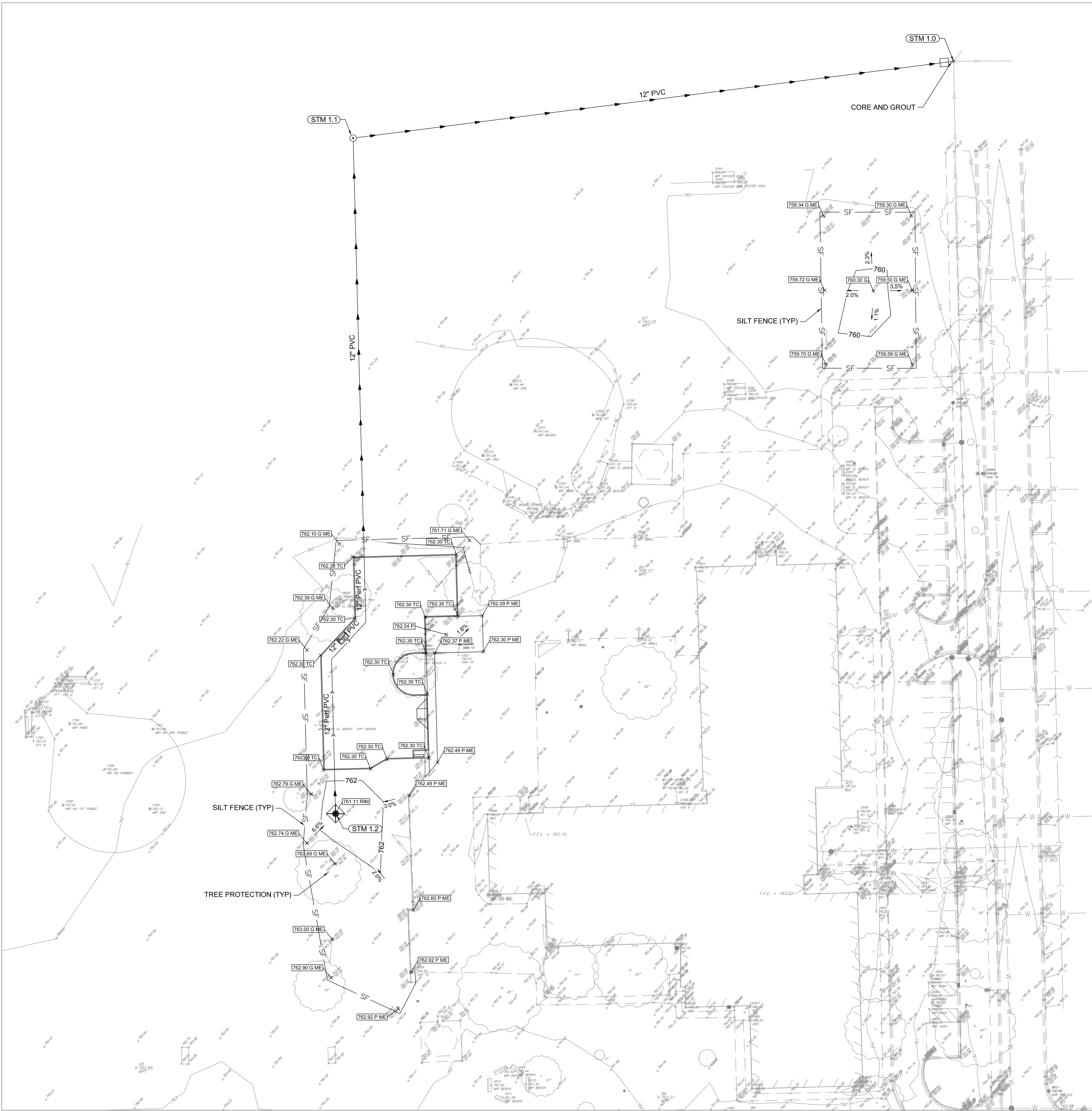
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GENERAL NOTES

Project Number:	Scale:
200031	
Drawn By:	
LMB	
Sheet:	

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LEGEND

ME	MATCH EXISTING ELEVATION
HP	HIGH POINT
11.77 P	TOP OF PAVEMENT ELEVATION
11.77 G	GROUND ELEVATION
11.77 SW	TOP OF SIDEWALK ELEVATION
11.77 RM	RIM ELEVATION
11.77 P/S	PLAY SURFACE
7.45	EXISTING CONTOUR LINE
7.45	PROPOSED CONTOUR LINE
2.0%	SLOPE/FLOW DIRECTION
→	STORM SEWER
→	UNDERDRAIN
●	OPEN LID STORM CATCH BASIN
○	CLOSE LID MANHOLE
•	CLEANOUT
◊	INLET PROTECTION
— SF —	SILT FENCE

GRADING NOTES

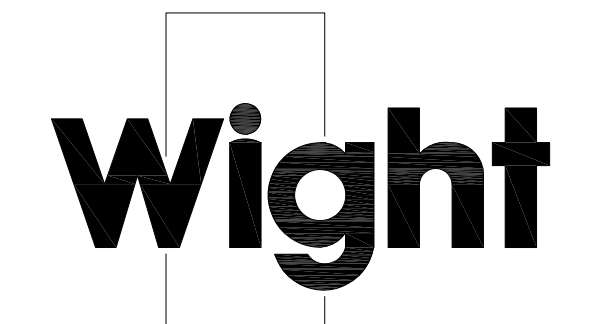
- CONTRACTOR TO VERIFY ALL EXISTING UTILITY LOCATIONS, SIZES, SLOPES, INVERTS, ETC. AND CONTACT ENGINEER IMMEDIATELY IF THERE ARE ANY CONFLICTS/DISCREPANCIES.
- CONTRACTOR TO PROTECT ALL EXISTING UTILITIES.
- ALL EXISTING UTILITY STRUCTURES SHALL BE ADJUSTED AS NECESSARY TO MATCH FINISH GRADE. ALL EXISTING UTILITY STRUCTURES REQUIRING ADJUSTMENT OR RECONSTRUCTION SHALL BE COMPLETED BY THE CONTRACTOR TO THE SATISFACTION OF THE UTILITY OWNER. ADJUSTMENTS AND/OR RECONSTRUCTIONS NOT CALLED FOR ON THE PLANS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. NO MORE THAN A TOTAL OF 12 INCHES OF ADJUSTING RINGS AND/OR 2 ADJUSTING RINGS SHALL BE ALLOWED.
- ALL SITE WORK SHALL BE IN CONFORMANCE WITH THE ILLINOIS ACCESSIBILITY CODE AND WITH THE AMERICANS WITH DISABILITIES ACT.
- SLOPES BETWEEN SPOT ELEVATIONS ON PATHWAYS SHALL BE CONSISTENT.
- MAXIMUM SLOPE ON ALL PAVED SURFACES IS 1:20 (5%). RAMPS SHALL NOT EXCEED A RUNNING SLOPE OF 1:12 (8.33%).
- ALL SURFACES SHALL BE GRADED FOR POSITIVE DRAINAGE. MAXIMUM CROSS-SLOPE ON ANY WALK OR RAMPS SHALL BE 2% IN DIRECTION INDICATED. IF NO DIRECTION IS INDICATED, GRADE FOR POSITIVE DRAINAGE AWAY FROM WALLS, COLUMNS, STEPS, AND STRUCTURES.
- ALL ACCESSIBLE PARKING SPACES AND LOADING ZONES SHALL HAVE A MAXIMUM SLOPE OF 2% IN ANY DIRECTION.
- AVOID EXCESSIVE FILL IN CRITICAL ROOT ZONES. SEE SPECIFICATIONS. FEATHER NEWLY GRADED AREAS INTO EXISTING GRADE.
- TOPSOIL IN AREAS DESIGNATED FOR PAVING SHALL BE STRIPPED AND RESPREAD IN ACCORDANCE WITH GRADING PLAN. HAUL OFF SITE AND LEGALLY DISPOSE OF UNSUITABLE OR EXCESS EXCAVATED MATERIAL.
- TOPSOIL IN AREAS OF NEWLY CREATED BERMS SHALL BE STRIPPED AND STOCKPILED. CONSTRUCT BERM USING ON SITE FILL MATERIAL OR IMPORTED MATERIAL AS DIRECTED. RESPREAD TOPSOIL IN ACCORDANCE WITH GRADING PLAN AND SPECIFICATIONS.
- TOPSOIL SHALL BE IMPORTED AS NEEDED AND SPREAD AT SPECIFIED DEPTHS TO ACHIEVE FINAL GRADE. GRANULAR FILL WILL NOT BE ACCEPTED UNDER TURF OR PLANTING AREAS.
- PROMPTLY NOTIFY OWNER'S REPRESENTATIVE IS UNSATISFACTORY SUB-GRADE MATERIALS ARE DISCOVERED.
- OBTAIN LANDSCAPE ARCHITECT'S REVIEW OF FINE GRADING PRIOR TO SEEDING OPERATIONS.
- REFER TO SPECIFICATIONS FOR ADDITIONAL CONDITIONS, STANDARDS, AND NOTES.
- ANY SOIL STOCKPILES SHALL BE PROTECTED WITH DOUBLE ROW OF SILT FENCE COIR ROLL AROUND PERIMETER.
- ANY DAMAGE TO TREES WITHIN THE VILLAGE RIGHT OF WAY AS A RESULT OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE APPLICANT TO ADDRESS AT THE DIRECTION OF THE VILLAGE FORESTER.

AS-BUILT NOTES:

THE CONTRACTOR IS RESPONSIBLE FOR ALL AS-BUILT SURVEYS. ALL AS-BUILT SURVEYS SHALL BE COMPLETED BY A PROFESSIONAL LAND SURVEYOR AND BE SIGNED AND SEALED. THE GRADING AND UTILITY CONSTRUCTION PLANS SHOULD BE USED AS THE BACKGROUND FOR ALL AS-BUILTS. THE CONTRACTOR SHALL SUBMIT TWO SETS OF THE "AS-BUILT" FINAL ENGINEERING DRAWINGS (I.E. RECORD DRAWINGS) AND STORMWATER MANAGEMENT CALCULATIONS UPON COMPLETION OF IMPROVEMENTS AND INCLUDE ELECTRONIC CAD FILES. THE RECORD DRAWINGS SHOULD AT LEAST INCLUDE THE FOLLOWING INFORMATION: AS-BUILT DETENTION CONTOURS, ELEVATIONS (INCLUDING DETENTION BASIN TOP OF BERM AND OVERFLOW WEIR GRADES) AND VOLUME (VERIFIED, SIGNED, & SEALED BY A PROFESSIONAL ENGINEER (PE) OR PROFESSIONAL LAND SURVEYOR (PLS)); ELEVATION, AND LOCATION (TIES TO TWO POINTS) OF ALL NEW STRUCTURES INCLUDING FIRE HYDRANTS, VALVE BOXES AND VAULTS, LINESSTOP SLEEVES, WATER SERVICE CORPORATION STOPS, WATER MAIN FITTINGS/BENDS, MANHOLES, SANITARY SERVICE WYES (MEASURED FROM DOWNSTREAM MANHOLE), ALL STORM/SANITARY SEWER STRUCTURES (INCLUDING INVERTS AND PIPE SIZES), ALL PIPES (LOCATIONS, SLOPES, LENGTHS, ETC.), OUTLET CONTROL STRUCTURES (INCLUDING RESTRICTOR SIZES AND ELEVATIONS PLUS TOP OF WALL) AND ABANDONED WATER OR SANITARY SERVICE LINES. DETAILED TOPOGRAPHIC SURVEY OF ALL HIGH POINTS, LOW POINTS, CHANGE OF SLOPE INCLUDING GUTTER GRADES, TOP OF CURB GRADES, PAVEMENT GRADES, SIDEWALK GRADES, RAMP GRADES, ETC. TO VERIFY POSITIVE DRAINAGE. ALL ELEVATIONS SHOULD BE REFERENCED TO THE SAME BENCHMARK DATUM AS THE ORIGINAL DESIGN PLANS. HORIZONTAL TIES SHALL BE REFERENCED TO LOT LINES, BACK OF CURB, OR PROPERTY CORNERS. WITHIN DETENTION/BMP AREAS: FOR VERIFICATION OF DETENTION VOLUME AND SUBBASE GRADES, PRIOR TO BACK FILLING WITH CA-7, THE CONTRACTOR SHALL PROVIDE ENGINEER WITH A CERTIFIED TOPO SURVEY OF AS-BUILT SUBBASE GRADES FOR ENGINEER APPROVAL AND ALSO A COPY OF RECEIPT OF THE CA-7 AGGREGATE.



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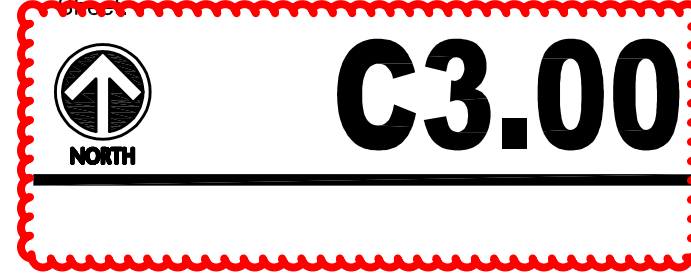
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FAIRMOUNT PLAYGROUND

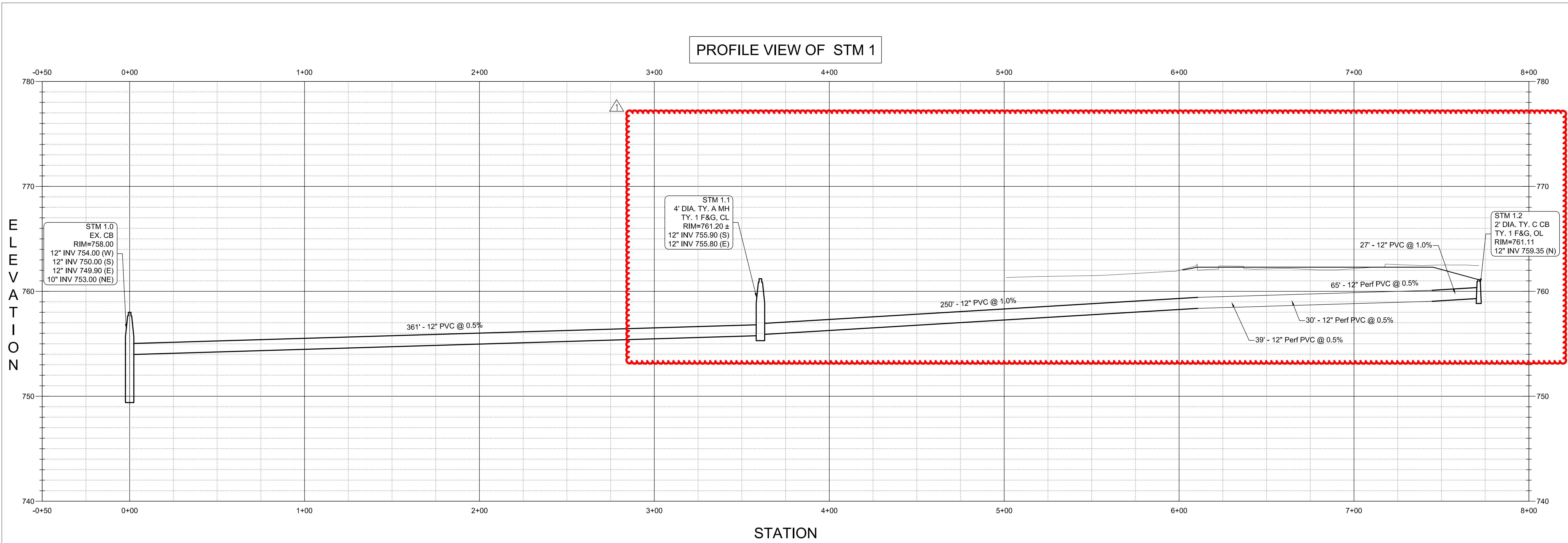
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GRADING AND DRAINAGE PLAN

Project Number: 200031
 Scale: 1" = 30'
 Drawn By: LMB



S:\Darien\Downers Grove SD58\200031_Fairmount Playground\01\11 Drawings\02 CD\200031_C3.01 UTILITY PROFILE PLAN.dwg devans Feb 27, 2023 1:21:20 pm
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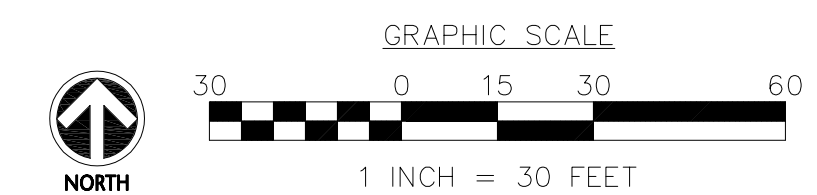
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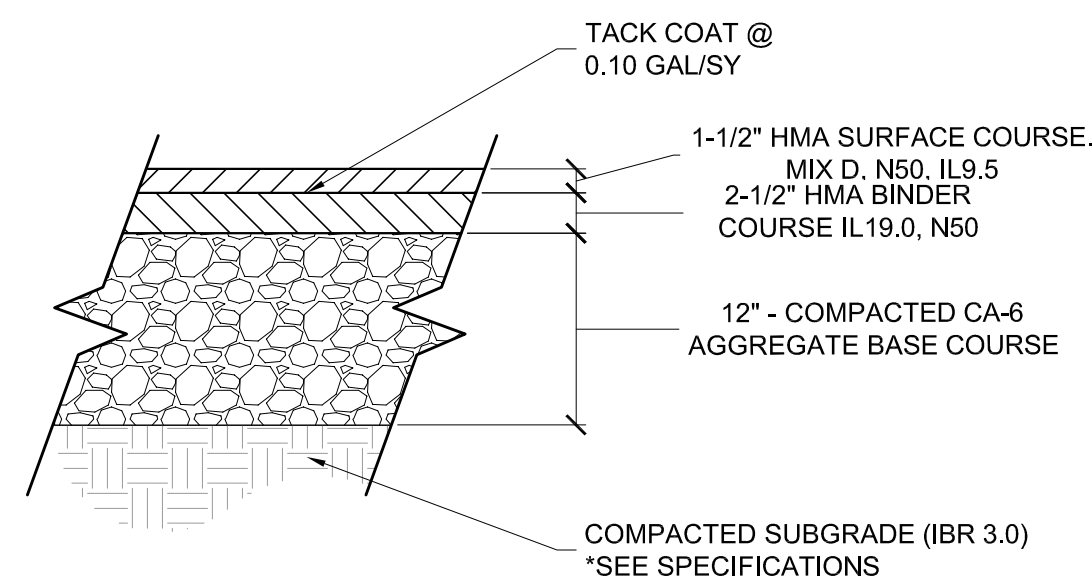
UTILITY PROFILE PLAN

Project Number: 200031
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 Drawn By: DE
 Sheet:



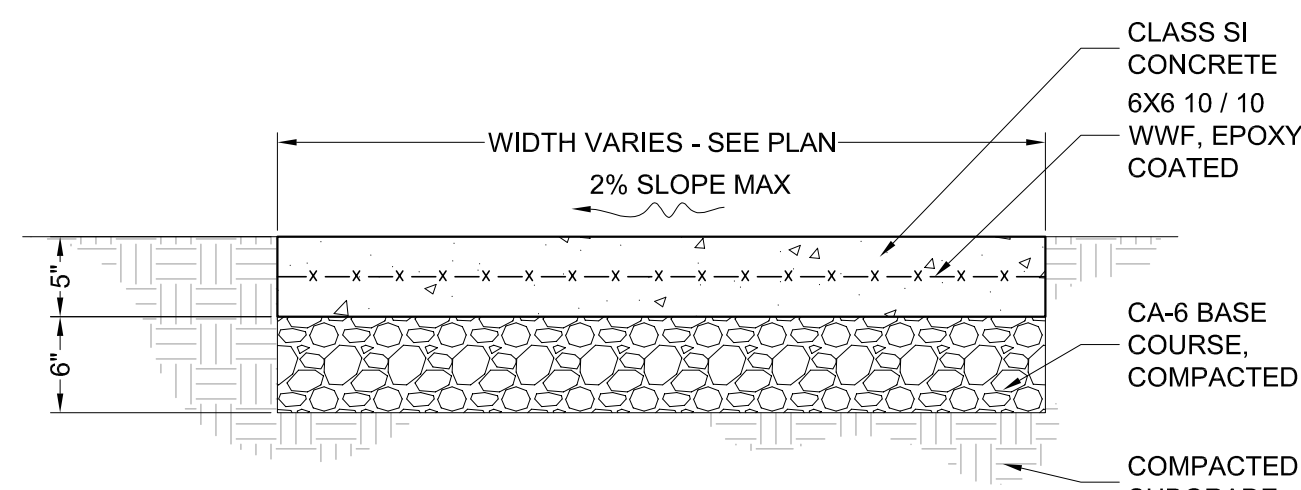
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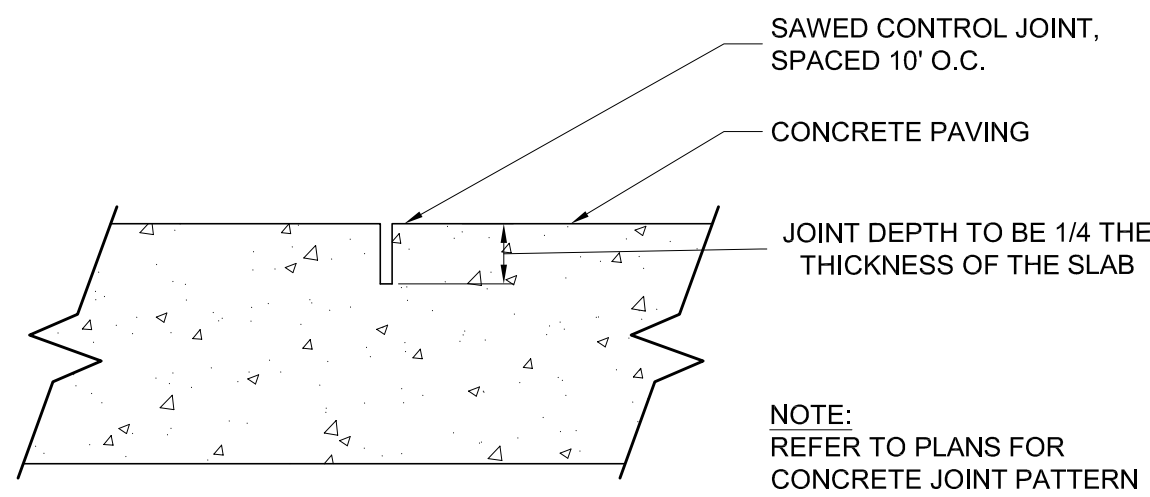
NOTES:
 1. FOR UNSUITABLE SUBGRADES UNDERCUT PER GEOTECHNICAL'S / ENGINEER'S RECOMMENDATION. (2 FOOT MAXIMUM)

1 HMA PAVEMENT - VEHICULAR
 SCALE: 1"=1'-0"



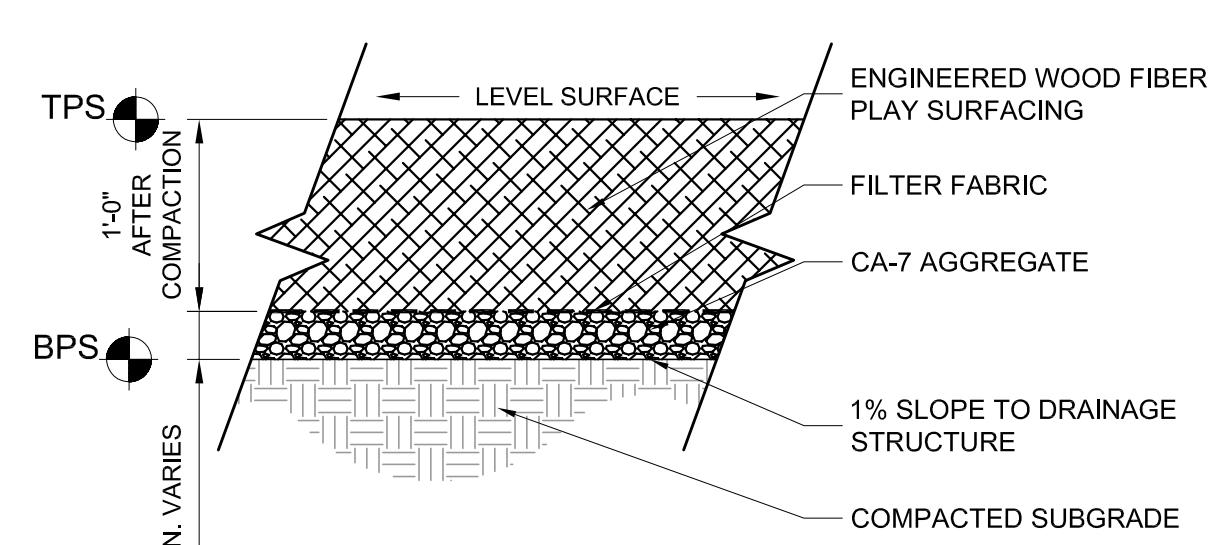
NOTES:
 1. ALL SIDEWALKS SHALL BE CONSTRUCTED WITH IDOT CLASS SI CONCRETE, NOT LESS THAN 3500 P.S.I. CONCRETE AT 14 DAYS.
 2. SIDEWALK THICKNESS CROSS DRIVEWAY SHALL BE A MINIMUM 8".
 3. REFER TO EXPANSION JOINT DETAIL.
 4. THE TRANSVERSE JOINTS SHALL EXTEND TO 1/4 THE DEPTH OF THE SIDEWALK, SHALL NOT BE MORE THAN 1/4" IN WIDTH, AND SHALL BE EDGED HAVING A 1/4 INCH RADIUS. NO SLAB SHALL BE LONGER THAN 6 FEET NOR LESS THAN 4 FEET ON ANY ONE SIDE.

2 CONCRETE PAVING
 SCALE: 1" = 1'-0"

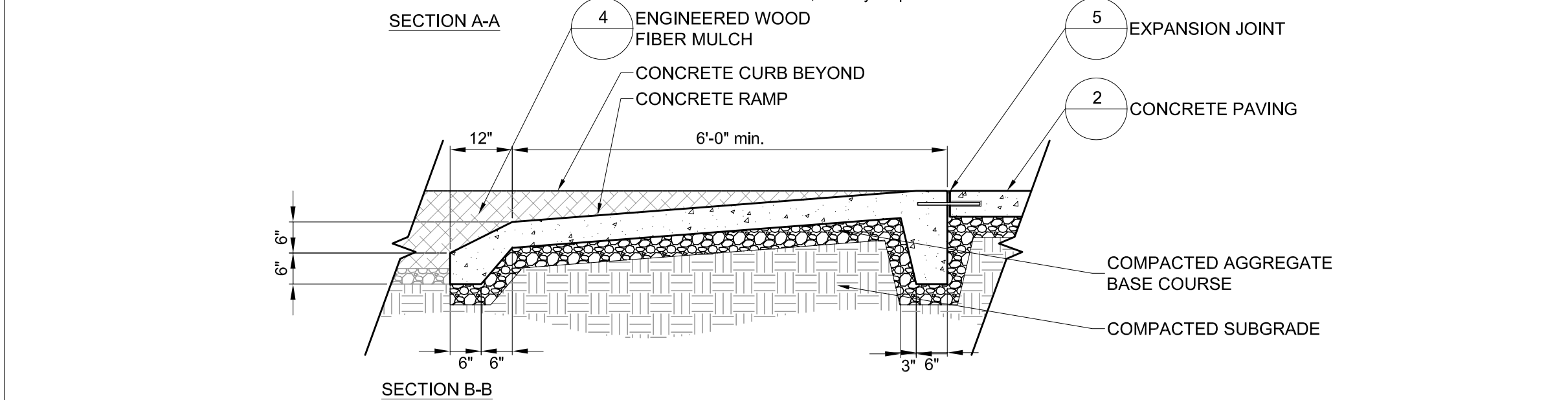
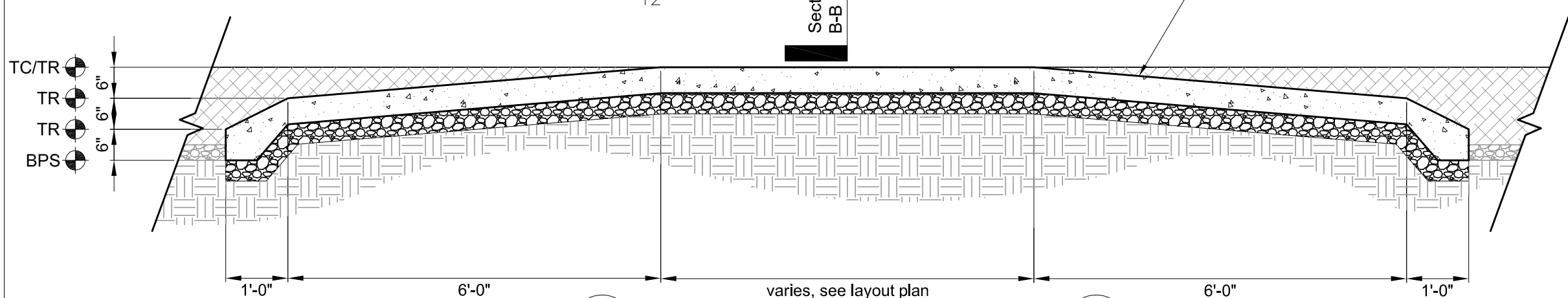
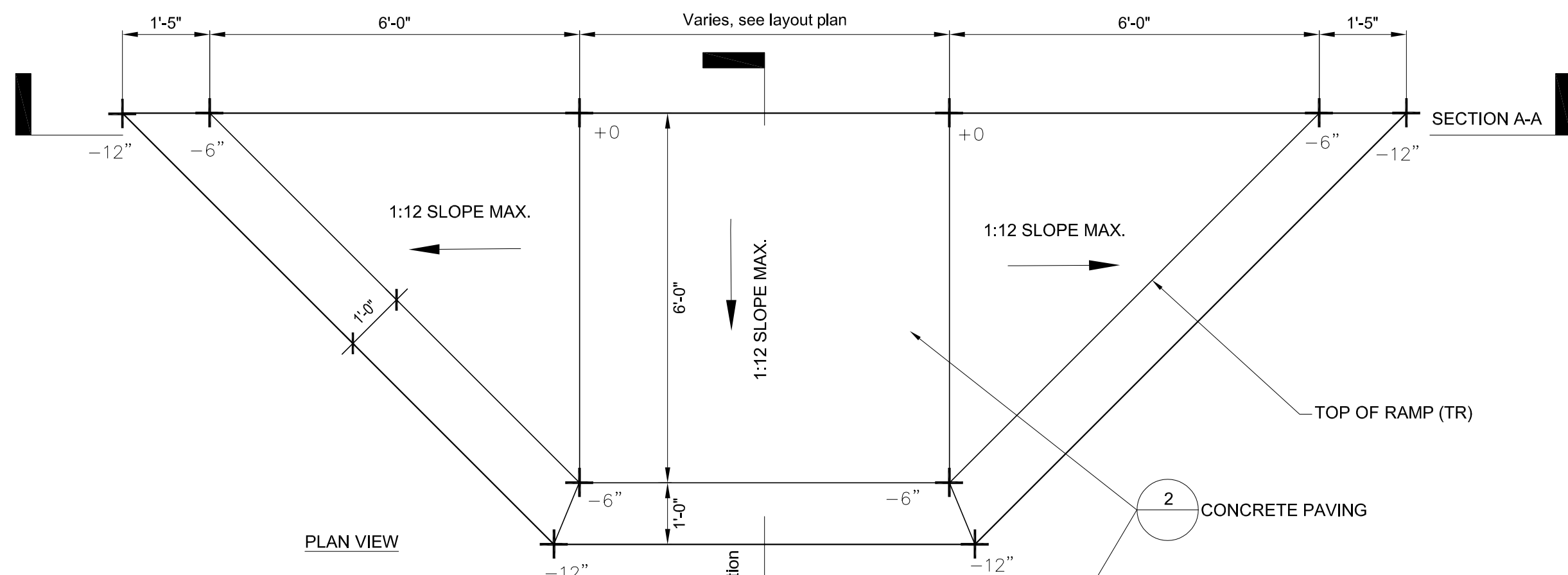


NOTE:
 REFER TO PLANS FOR CONCRETE JOINT PATTERN

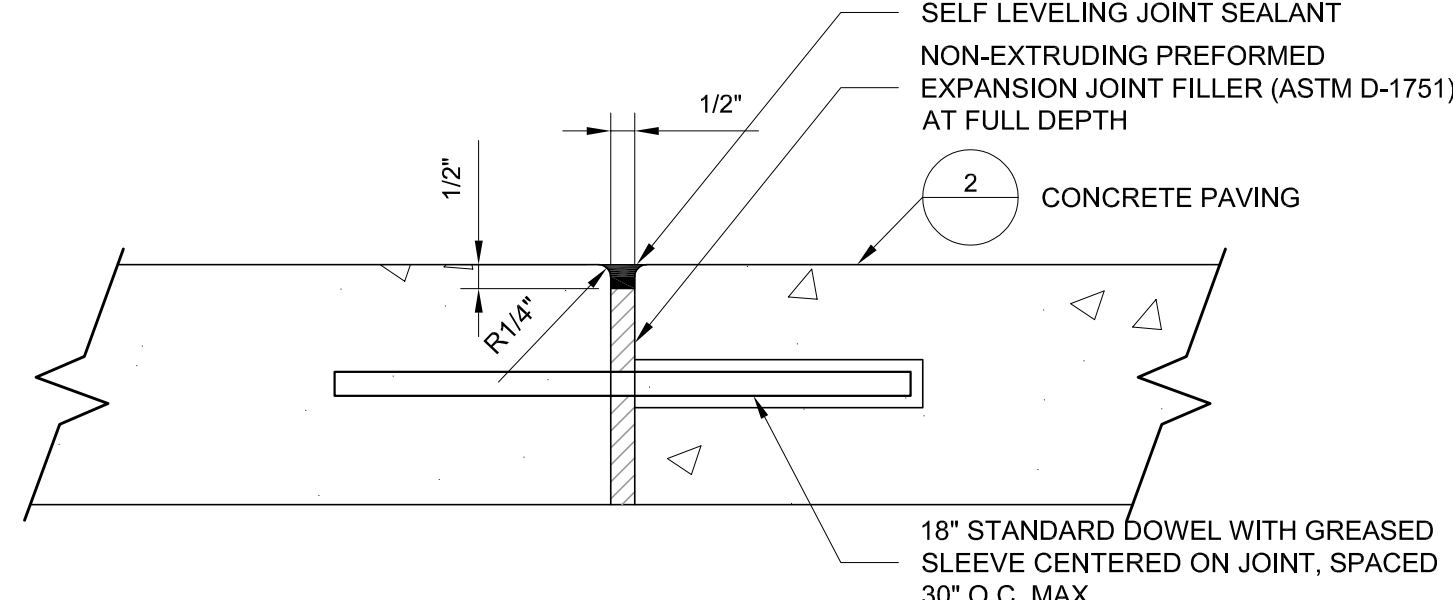
3 CONTROL JOINT
 SCALE: 3" = 1'-0"



4 PLAY SURFACING - ENGINEERED WOOD FIBER MULCH
 SCALE: 1" = 1'-0"

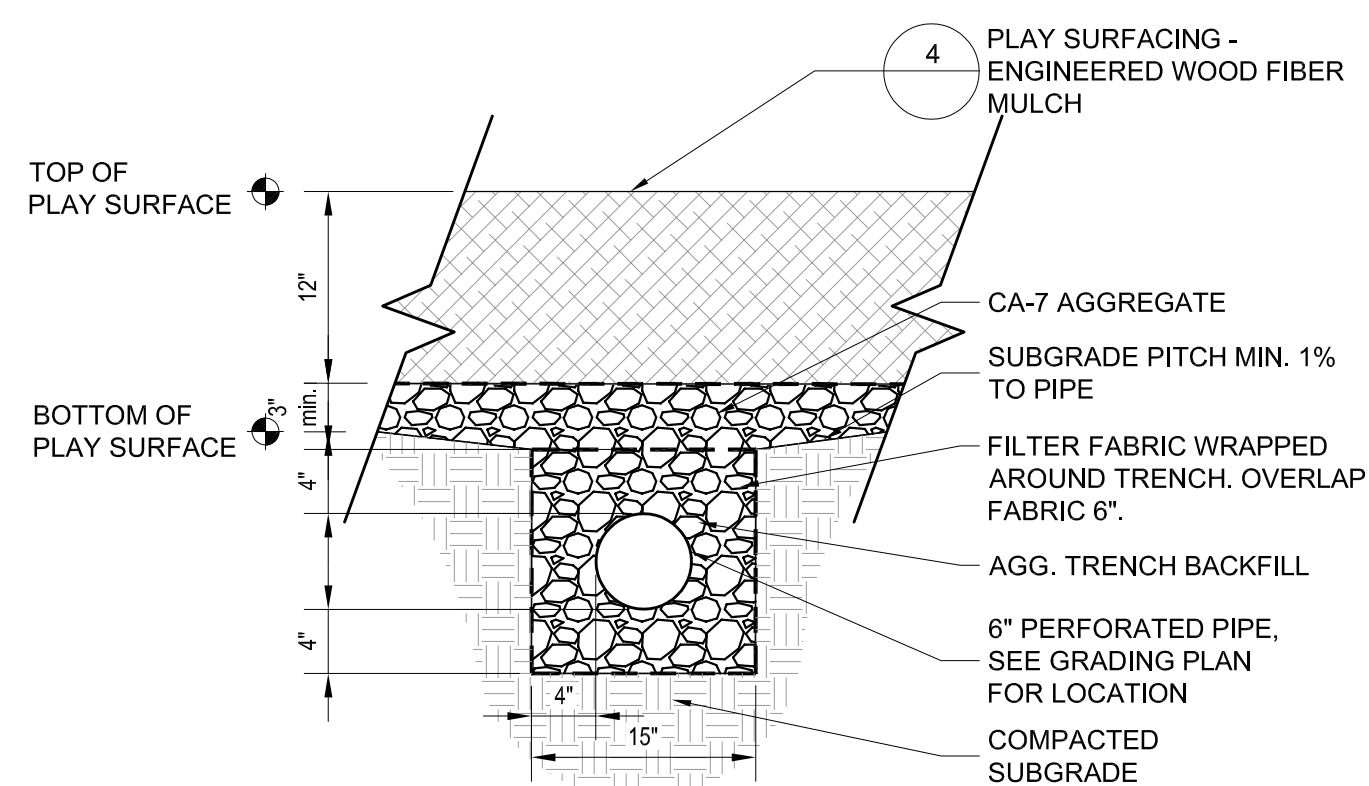


7 PLAYGROUND RAMP
 SCALE: 1/2"=1'-0"

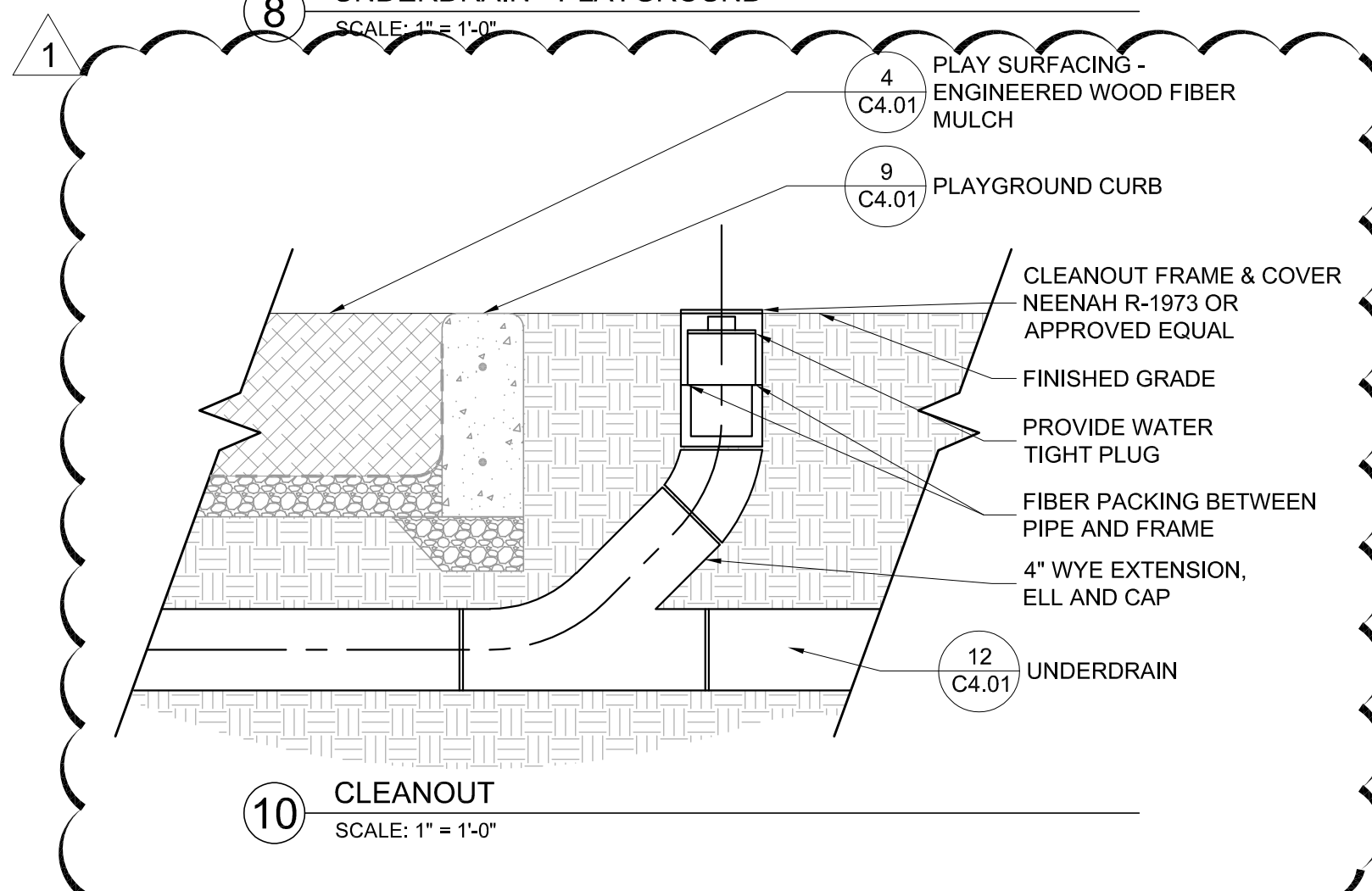


NOTES:
 1. PREFORMED FLEXIBLE FOAM EXPANSION JOINT FILLER NOT ACCEPTED.
 2. EACH EXPANSION JOINT SHALL HAVE (2) 3" DOWEL BARS, 18" LONG AND PROPERLY LUBRICATED, PLACED AT MID DEPTH.
 3. EXPANSION JOINTS 3/4" THICK SHALL BE WHERE PROPOSED CONCRETE MEETS EXISTING CONCRETE, AT 50 FT INTERVALS FOR HAND POURS AND 100 FT INTERVALS FOR SLIP OR MONOLITHIC POURS.
 4. EXPANSION JOINTS 3/4" THICK SHALL BE AT EVERY P.C. & P.T. OF CURVATURE, 5 FT EACH SIDE OF STRUCTURES, AND AT END OF POURS.
 5. PREFORMED EXPANSION JOINT 1/2" THICK SHALL BE PLACED BETWEEN THE SIDEWALK AND ALL STRUCTURES.
 6. EXPANSION JOINTS SHALL ALSO BE PLACED WHERE THE SIDEWALK ABUTS EXISTING SIDEWALKS AND WHERE THE SIDEWALK ABUTS A CURB.
 7. EXPANSION JOINTS SHALL ALSO BE PLACED WHERE THE CURB ABUTS EXISTING CURB.

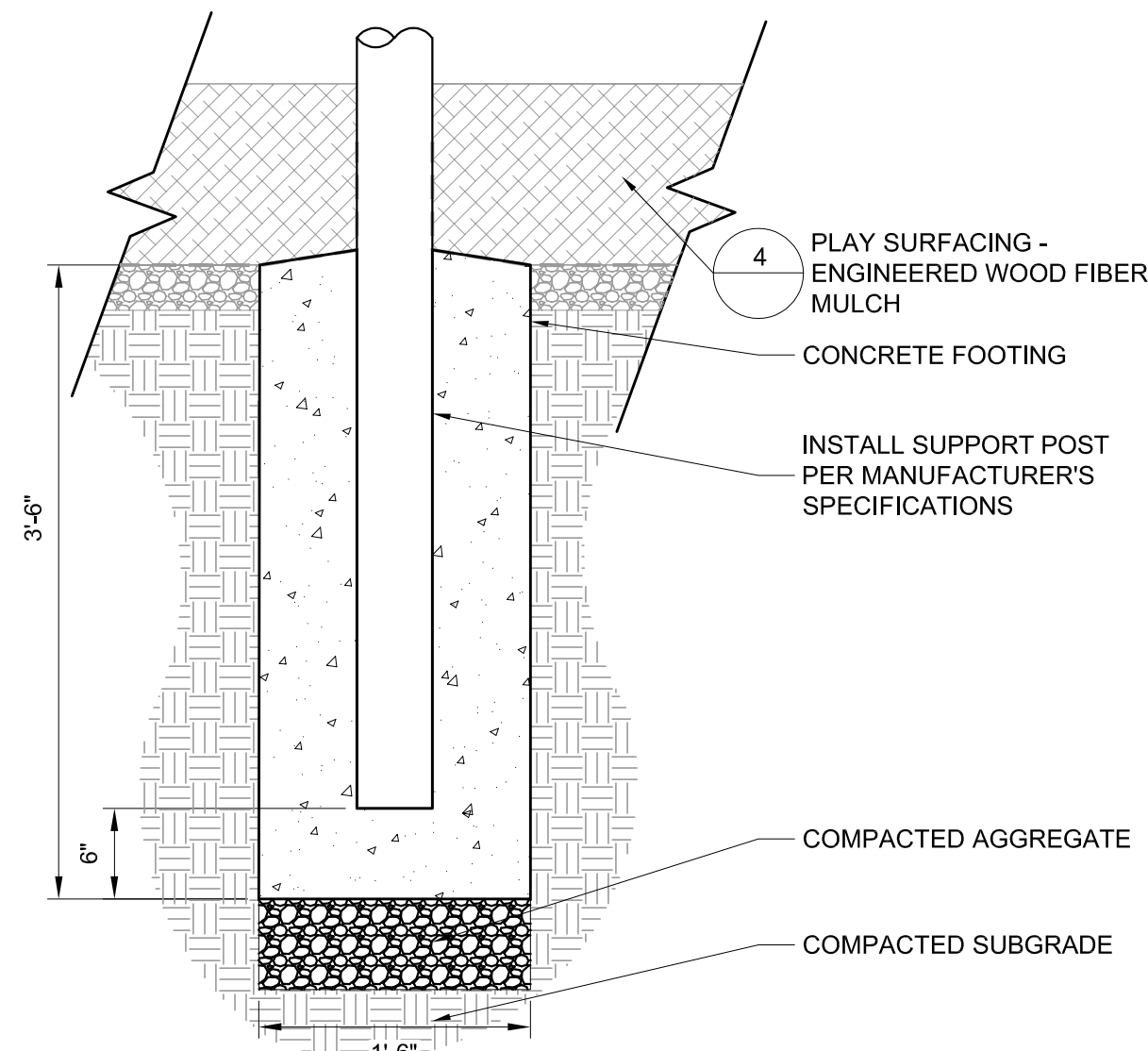
5 EXPANSION JOINT
 SCALE: 3" = 1'-0"



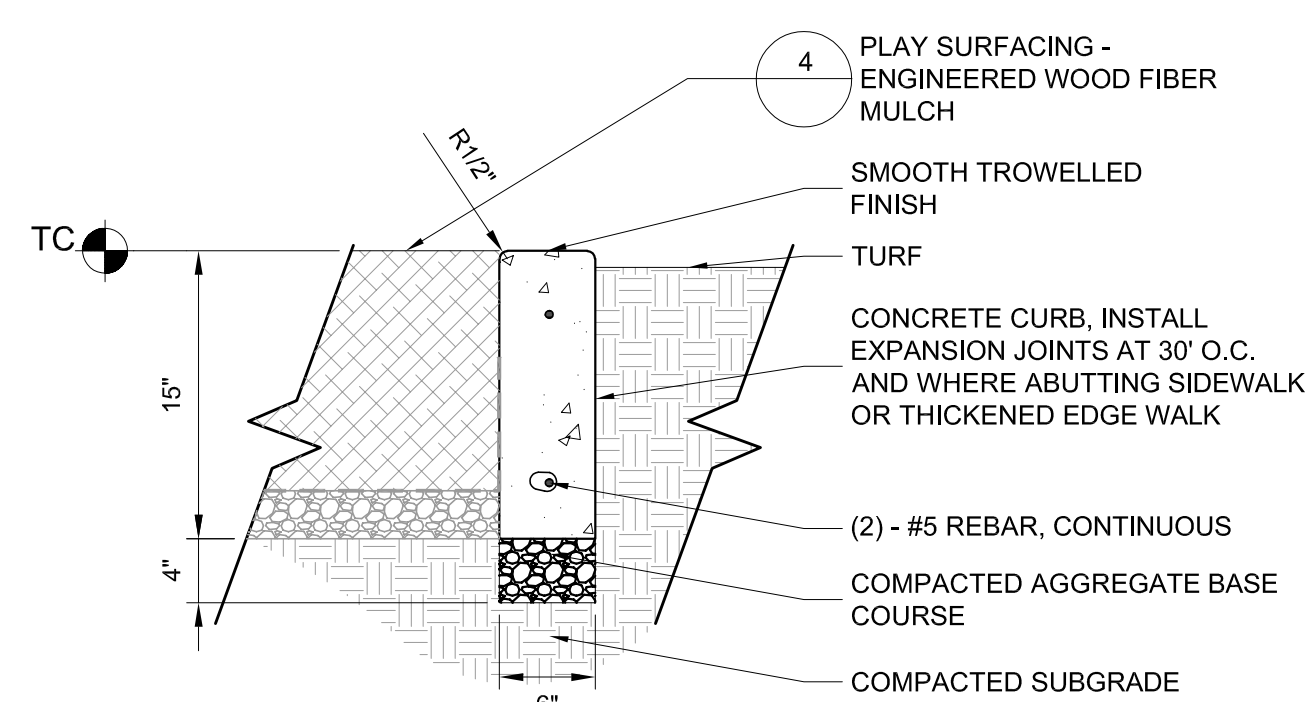
8 UNDERDRAIN - PLAYGROUND
 SCALE: 1" = 1'-0"



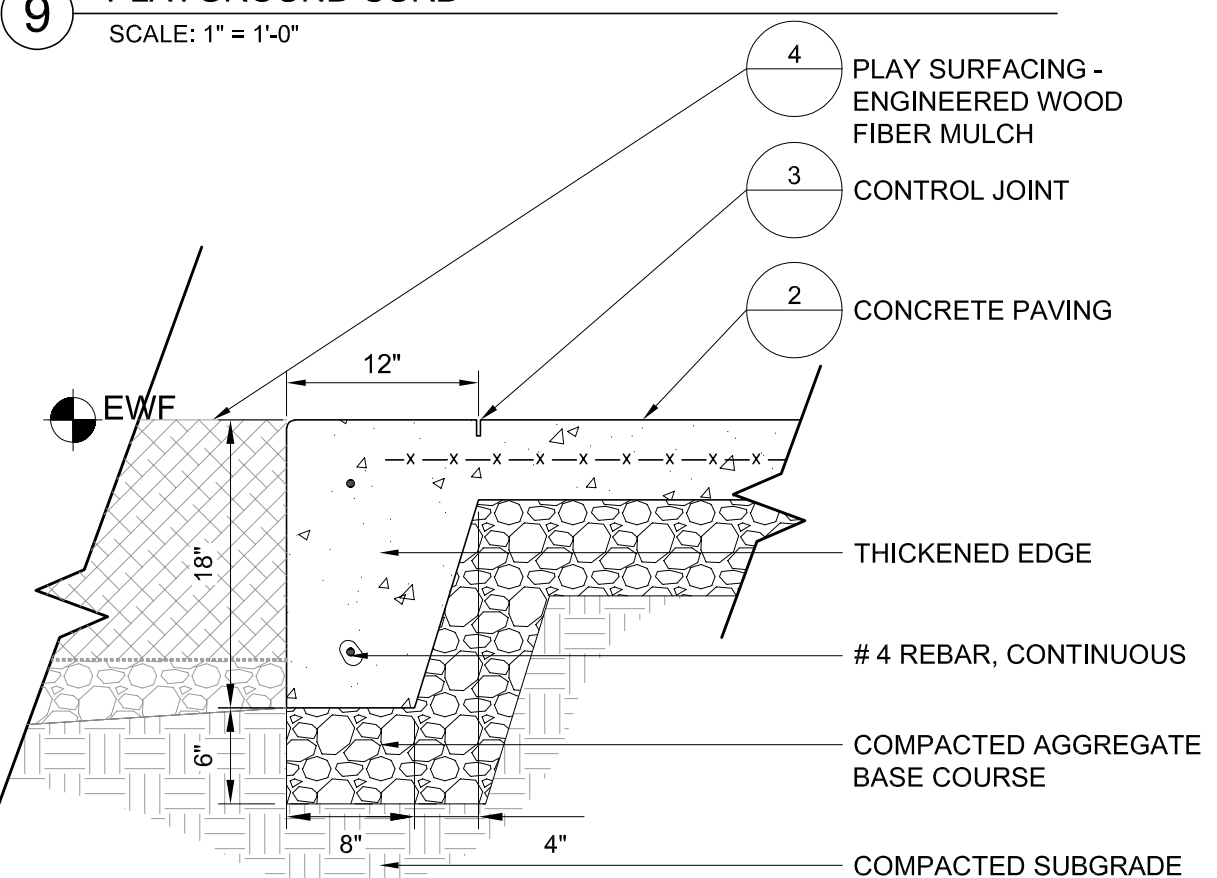
10 CLEANOUT
 SCALE: 1" = 1'-0"



6 PLAY STRUCTURE FOOTING
 SCALE: 1"=1'-0"



9 PLAYGROUND CURB
 SCALE: 1" = 1'-0"



11 THICKENED EDGE CURB
 SCALE: 1"=1'-0"



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FAIRMOUNT PLAYGROUND

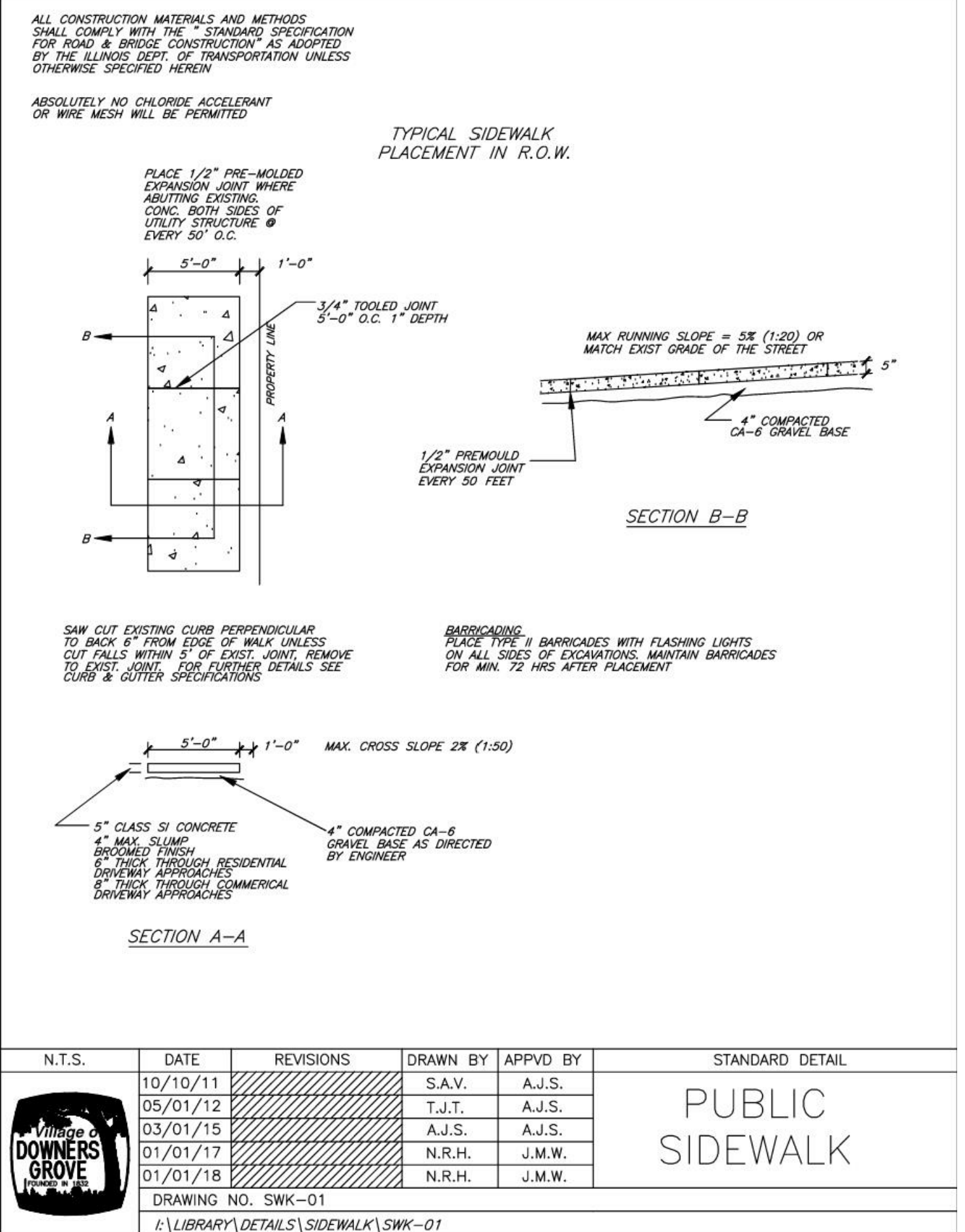
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DETAILS

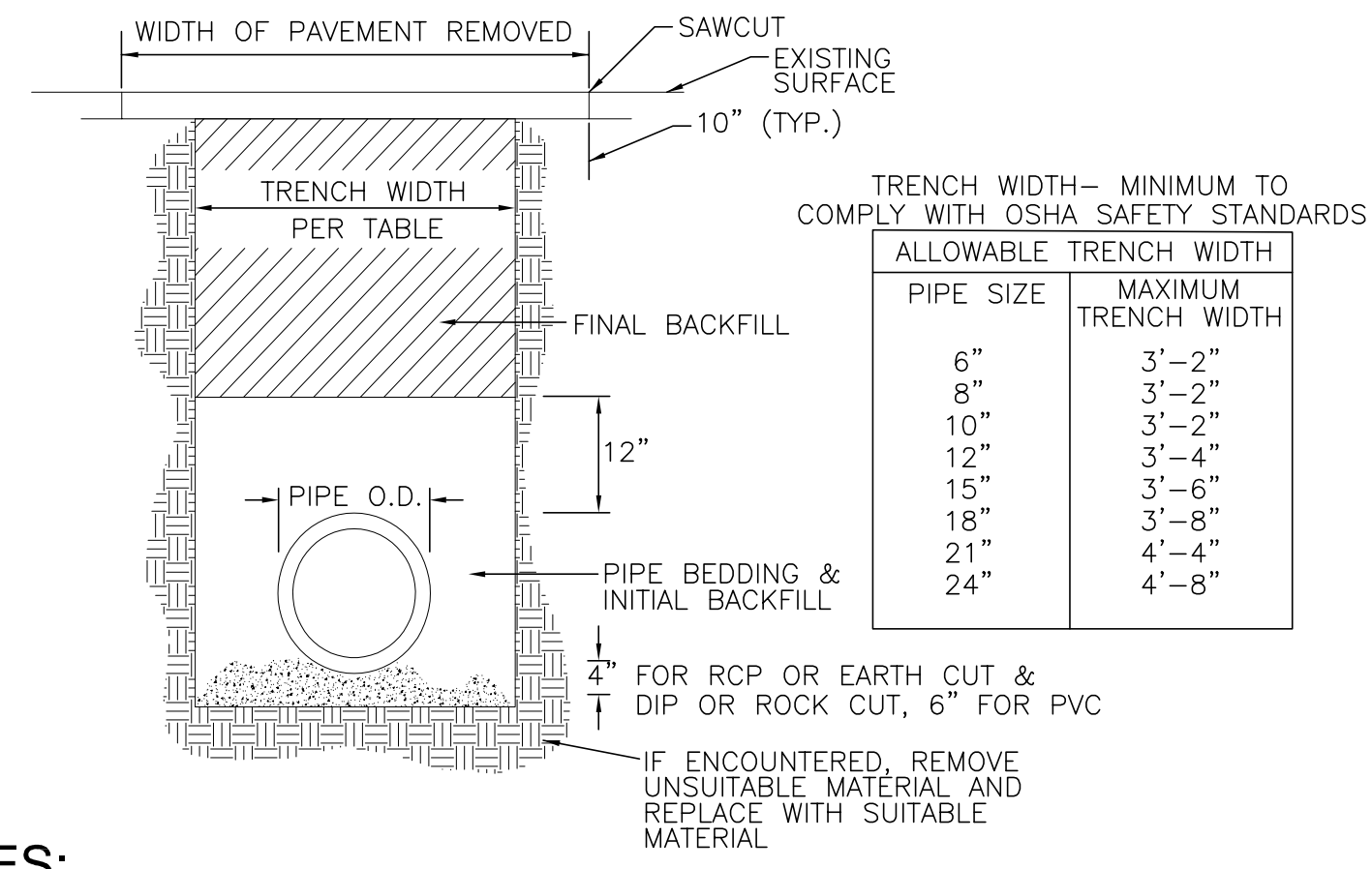
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 Drawn By: LMB
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1 PUBLIC SIDEWALK
SCALE: NTS



2 PIPE BEDDING & BACKFILL - STORM SEWER
SCALE: NTS



NOTES:

- TRENCH WIDTH - MINIMUM TO COMPLY WITH OSHA SAFETY STANDARDS.
- REINFORCING OF RESTORED PAVEMENT MUST MATCH EXISTING.
- RESTORATION TO ORIGINAL SURFACE REQUIRED. NO CONCRETE PATCHES ON ASPHALT ROADS
- STREETS MUST REMAIN OPEN TO TRAFFIC WORK ON ONLY ONE HALF OF STREET ALLOWED AT A TIME.
- CONTRACTORS SHALL ERECT AND MAINTAIN SUFFICIENT AND SUITABLE SIGNS AND BARRICADES DURING AND AFTER CONSTRUCTION.
- STREETS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION WITHIN 72 HOURS FROM THE TIME THE WORK COMMENCED. STREET OPENINGS SHALL BE BACKFILLED WITH APPROVED GRANULAR MATERIAL AND A TEMPORARY PAVEMENT SURFACE OF COMPACTED COLD ASPHALT MATERIAL SHALL BE INSTALLED WITHIN 24 HOURS FROM THE TIME THE WORK COMMENCED.
- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE MUNICIPALITY BEFORE BACKFILLING AND RESTORATION WORK ARE TO COMMENCE.

PIPE BEDDING & INITIAL BACKFILL
FOR PVC AND HDPE, CRUSHED STONE (IDOT CA-11 OR CA-13) TO 1 FOOT OVER PIPE. FOR RCP & DIP, CA-6 TO SPRING LINE. PLACE IN MAXIMUM 6" LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY PER AASHTO T-99.

FINAL BACKFILL
IN PAVEMENT AREAS AND WHERE TRENCH FALLS WITHIN A 1 TO 1 SLOPE EXTENDED FROM THE EDGE OF THE PAVEMENT, MATERIAL SHALL BE TRENCH-BACKFILL (CA-6 PER I.D.O.T. SPECS.) COMPACTED TO 95% STANDARD PROCTOR DENSITY PER AASHTO T-99.

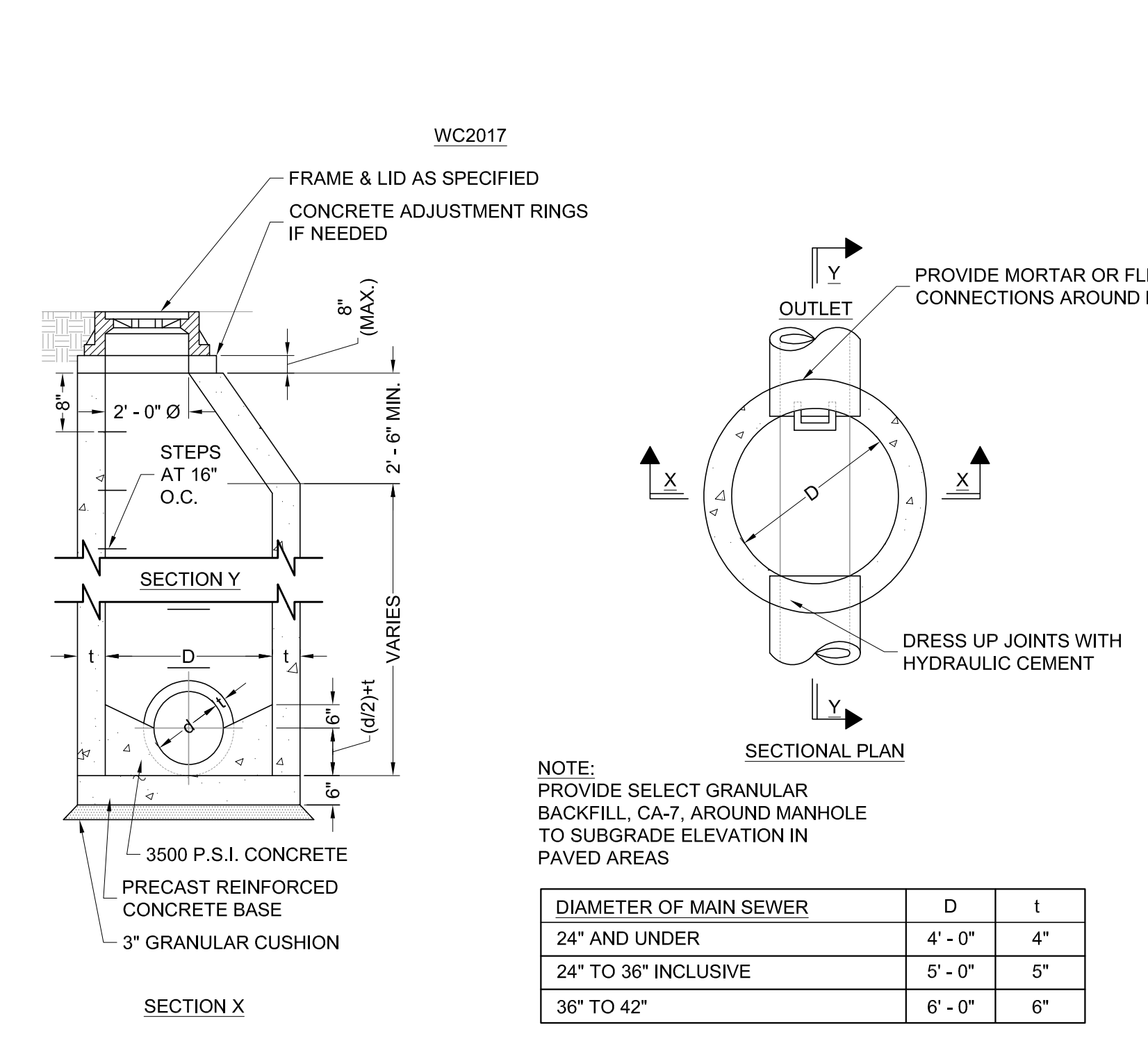
IN AREAS WHERE GRASS IS REMOVED AND PARKWAY RESTORATION IS REQUIRED LANDSCAPE FABRIC SHALL BE PLACED BETWEEN THE BACKFILLED MATERIAL AND THE REQUIRED TOPSOIL AS DIRECTED BY THE MUNICIPAL DIRECTOR OF PUBLIC WORKS.

IN LANDSCAPE AREAS MATERIAL SHALL BE SELECT, EXCAVATED MATERIAL, FREE OF ROCKS AND DEBRIS COMPACTED TO 85% STANDARD PROCTOR DENSITY PER AASHTO T-99.

UTILITY CROSSINGS
AT UTILITY CROSSINGS, INSTALL TRENCH BACKFILL, AS ABOVE, FROM THE PIPE BEDDING TO 1 FOOT OVER THE HIGHER PIPE. SUCH A GRANULAR CRADLE SHALL BE CONSTRUCTED REGARDLESS OF WHETHER THE CROSSING OCCURS IN PAVED OR LANDSCAPED AREAS.

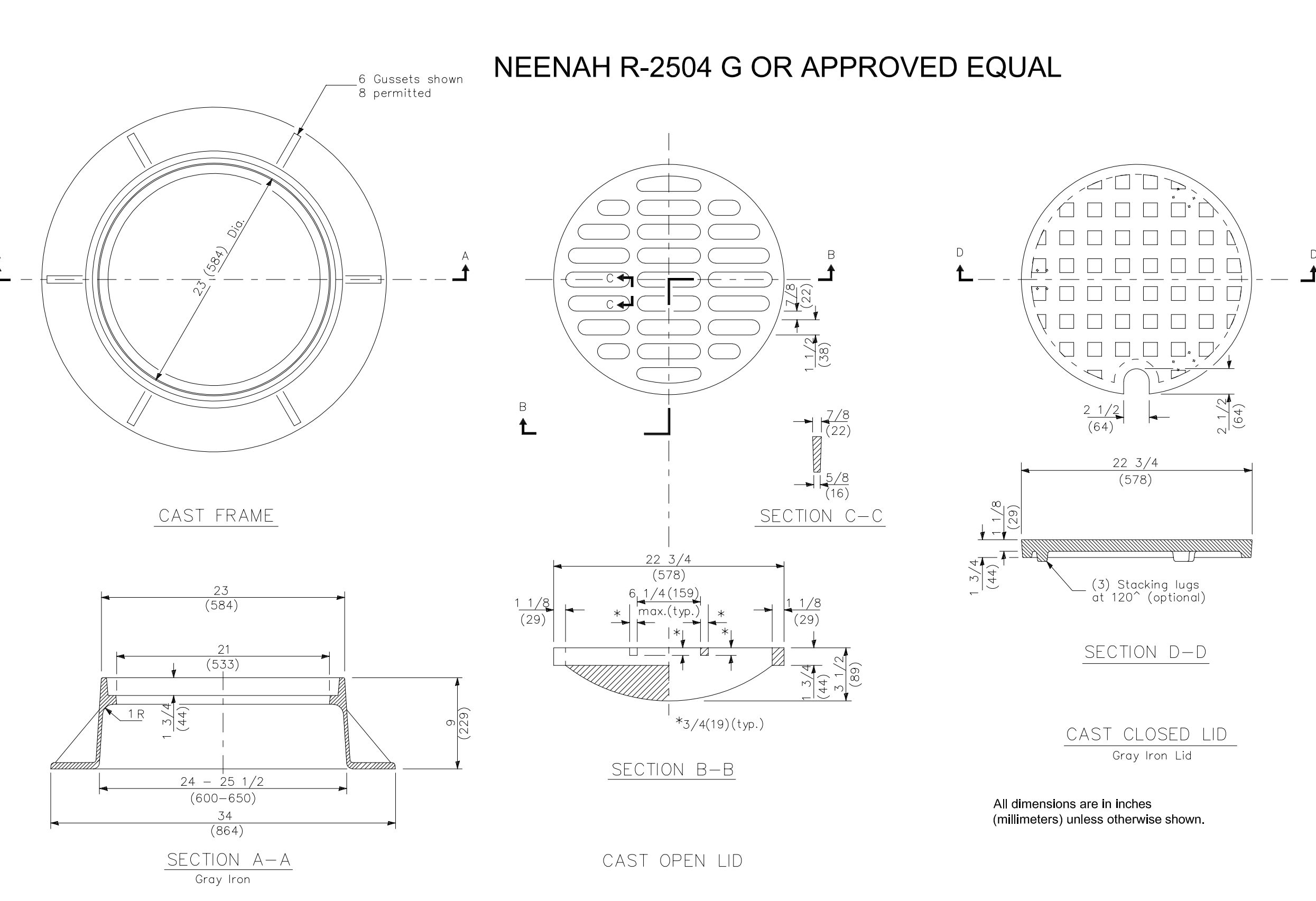
WHERE UTILITY CROSSINGS INCLUDE A WATER MAIN, USE CLASS IV COMPACTED SELECT EXCAVATED MATERIAL BETWEEN PIPES AS REQUIRED BY THE STANDARD SPECIFICATIONS FOR SEWER & WATER MAIN CONSTRUCTION IN ILLINOIS, STANDARD DRAWINGS 19 THROUGH 24.

3 STORM SEWER MANHOLE, TYPE A
SCALE: NTS

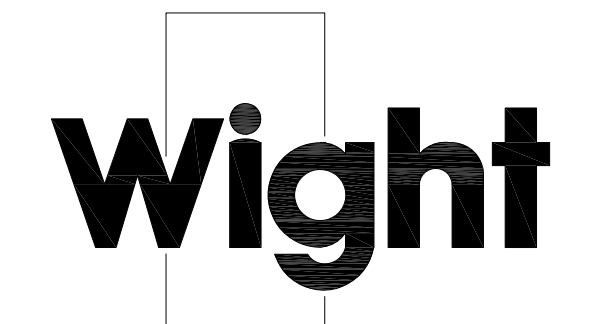


- NOTES:**
- ALL MANHOLES SHALL BE OF PRECAST REINFORCED CONCRETE SECTIONS.
 - PIPE OPENINGS SHALL BE CAST INTO WALL.
 - ALL MANHOLES SHALL BE CONSTRUCTED WITH A PRECAST REINFORCED CONCRETE BASE.
 - ALL JOINTS BETWEEN PRECAST RISER, TOP SLAB SECTIONS, ADJUSTMENT RINGS AND CASTINGS SHALL BE SEALED WITH A BITUMASTIC MATERIAL.
 - MORTAR SHALL NOT BE USED TO DRESS UP ADJUSTING RINGS.
 - STEPS SHALL BE EMBEDDED INTO THE WALL A MINIMUM OF 4 INCHES AND SHALL NOT BE EXTENDED ON THE OUTSIDE.
 - FRAME AND LID CASTINGS SHALL BE AS SPECIFIED ON THE PLANS. THE WORD "STORM" SHALL BE CAST IN THE LID.
 - THE CONTRACT UNIT PRICE FOR MANHOLES SHALL INCLUDE THE FRAME AND LID, STEPS AND THE GRANULAR CUSHION.
 - WHERE A FLAT TOP IS REQUIRED, IT SHALL BE PRECAST AND CONFORM TO IDOT STANDARDS.

4 FRAME AND LIDS TYPE 1



DOWNERS GROVE GRADE SD 58



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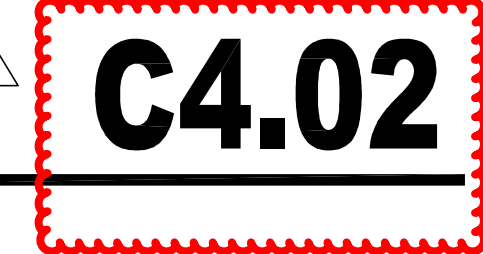
REV	DESCRIPTION	DATE
ADDENDUM 1		02-27-23
ISSUED FOR BID		02-16-23

FAIRMOUNT PLAYGROUND

6036 BLODGETT AVENUE
DOWNERS GROVE, IL 60516

DETAILS

Project Number: 200031
Scale:
Drawn By:
DE
Sheet:



S:\Darien\Downers Grove SD58\200031_Fairmount Playground\0111 Drawings\02 CD\200031_C4.00 CIVIL DETAILS.dwg devans Feb 27, 2023 1:59:42 pm
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GENERAL

- EXISTING SITE TOPOGRAPHY, UTILITIES, AND HORIZONTAL CONTROL SHOWN ON THE DRAWINGS WERE FIELD MEASURED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. (CEI), DATED 01/22/2023. ALL DIMENSIONS AND UTILITY LOCATIONS ARE BASED ON BEST AVAILABLE INFORMATION. TRADE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITY LOCATIONS, INVERTS, RIMS, PIPE SIZE, MATERIAL TYPE, ETC. PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- ELEVATIONS ARE BASED ON ILLINOIS STATE PLANE COORDINATE SYSTEM NAVD 88 DATUM.
- THE TRADE CONTRACTOR SHALL SUBSCRIBE TO ALL GOVERNING REGULATIONS AND SHALL ABIDE BY THE REQUIREMENTS OF ALL APPLICABLE PERMITS.
- ALL APPLICABLE PROVISIONS OF THE CURRENT OCCUPATIONAL HEALTH AND SAFETY ACT ARE HEREIN INCORPORATED BY REFERENCE.
- NO BURNING OR INCINERATION OF RUBBISH IS PERMITTED ON THE SITE.
- STREET AND DRIVEWAY PAVEMENT SHALL BE PROTECTED FROM DAMAGE. ANY DAMAGE SHALL BE REPAIRED PER THE VILLAGE OF DOWNERS GROVE REQUIREMENTS. MATERIALS AND WORKMANSHIP OF REPAIRS SHALL CONFORM TO THE "DOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS (LATEST EDITION)", THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS (LATEST EDITION), HEREIN AFTER REFERRED TO AS "STANDARD SPECIFICATIONS" AND THE VILLAGE OF DOWNERS GROVE REQUIREMENTS.
- THE "DEVELOPMENT REGULATIONS", LATEST EDITION, AS ADOPTED BY THE VILLAGE OF DOWNERS GROVE, ILLINOIS, HEREIN AFTER REFERRED TO AS THE "DEVELOPMENT REGULATIONS" INCLUDING ALL VILLAGE STANDARD DETAILS AND SPECIFICATIONS; THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) AND THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS (LATEST EDITION)" PREPARED BY ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT), HEREIN AFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"; AND ILLINOIS ENVIRONMENTAL PROTECTION AGENCY ILLINOIS URBAN MANUAL, LATEST EDITION, AND "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", HEREIN AFTER REFERRED TO AS "ISPE STANDARDS" SHALL GOVERN THE CONSTRUCTION OF THESE IMPROVEMENTS EXCEPT AS MODIFIED BY THE CONTRACT DOCUMENTS.
- ALL CONNECTIONS TO EXISTING UTILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REGULATIONS OF THE VILLAGE OF DOWNERS GROVE, ILLINOIS AND THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, HEREIN AFTER REFERRED TO AS ISPE STANDARDS.
- ALL FACILITIES OR LANDSCAPING DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION BY THE RESPONSIBLE TRADE CONTRACTOR.
- PROPOSED ELEVATIONS INDICATE FINISHED GRADES. FOR SUBGRADE ELEVATIONS, ALLOW FOR THICKNESS OF PROPOSED PAVING OR TOPSOIL THICKNESS.
- THE TRADE CONTRACTOR SHALL NOTIFY THE VILLAGE OF DOWNERS GROVE, ILLINOIS 48 HOURS BEFORE THE COMMENCEMENT OF CONSTRUCTION.
- SHOULD THE TRADE CONTRACTOR ENCOUNTER FIELD DRAINAGE TILE NOT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY CONTACT ENGINEER AND THE VILLAGE OF DOWNERS GROVE FOR INSTRUCTIONS. SHOULD THE ENGINEER OR VILLAGE OF DOWNERS GROVE INSTRUCT THAT DAMAGED FIELD TILES BE RESTORED TO THEIR ORIGINAL CONDITION, THAT REPAIR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THE LOCATION OF FOUND DRAINAGE TILE SHALL BE INDICATED ON THE RECORD DRAWING.
- ALL TRENCHES SHOULD FOLLOW THE VILLAGE OF DOWNERS GROVE STANDARD DETAILS INCLUDED IN THE CIVIL DETAILS. TRENCHES ARE TO BE BACKFILLED WITH TRENCH BACKFILL AND COMPACTED TO 95% MODIFIED PROCTOR DENSITY, AS REQUIRED BY THE VILLAGE OF DOWNERS GROVE AND THE ISPE STANDARDS.
- TRADE CONTRACTOR IS RESPONSIBLE FOR CALLING J.U.L.L.E. AT 1-800-892-0123 OR 811 AND NOTIFYING THE CONSTRUCTION MANAGER AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING UTILITY MARKINGS THROUGHOUT CONSTRUCTION.
- ALL DIMENSIONS, CURB RADII AND ELEVATIONS REFER TO THE BACK OF CURB WHERE CURB IS SHOWN. COORDINATES ARE TO BACK OF CURB, CENTER OF STRUCTURES OR AS SHOWN.
- WHERE PAVEMENT, CURB OR SIDEWALK REMOVAL IS REQUIRED, THE TRADE CONTRACTOR SHALL SAW CUT THE BOUNDARIES OF THE AREA TO BE REMOVED PRIOR TO DEMOLITION.
- TRADE CONTRACTOR IS RESPONSIBLE FOR LAYOUT, LINE AND GRADE FOR ITEMS INCLUDED IN THE CONTRACT SCOPE OF WORK. CONTRACTOR TO USE CAD FILES AS PROVIDED BY THE ENGINEER FOR GEOMETRIC LAYOUT.
- TRADE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE PUBLIC STREET CLEAN OF DEBRIS.
- "BAND SEAL" JOINTS WITH STAINLESS STEEL STRAPS AND BOLTS SHALL BE USED WHEN CONNECTING DISSIMILAR MATERIALS.
- ALL EXISTING UTILITY STRUCTURES SHALL BE ADJUSTED AS NECESSARY TO MATCH FINISH GRADE. ALL EXISTING UTILITY STRUCTURES REQUIRING ADJUSTMENT OR RECONSTRUCTION SHALL BE COMPLETED BY THE CONTRACTOR TO THE SATISFACTION OF THE UTILITY OWNER. ADJUSTMENTS AND/OR RECONSTRUCTIONS NOT CALLED FOR ON THE PLANS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. NO MORE THAN A TOTAL OF 12 INCHES OF ADJUSTING RINGS AND/OR 2 ADJUSTING RINGS SHALL BE ALLOWED.
- IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT IN LOCATION AND/OR ELEVATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND CONSTRUCTION MANAGER SO THAT THE CONFLICT MAY BE RESOLVED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL AS-BUILT SURVEYS. ALL AS-BUILT SURVEYS SHALL BE COMPLETED BY A PROFESSIONAL LAND SURVEYOR AND BE SIGNED AND SEALED. THE GRADING AND UTILITY CONSTRUCTION PLANS SHOULD BE USED AS THE BACKGROUND FOR ALL AS-BUILTS. THE CONTRACTOR SHALL SUBMIT TWO SETS OF THE "AS-BUILT" FINAL ENGINEERING DRAWINGS, RECORD DRAWINGS AND STORMWATER MANAGEMENT CALCULATIONS UPON COMPLETION OF IMPROVEMENTS AND INCLUDE ELECTRONIC CAD FILES. THE RECORD DRAWINGS SHOULD AT LEAST INCLUDE THE FOLLOWING INFORMATION: AS-BUILT DETENTION CONTOURS; ELEVATIONS (INCLUDING DETENTION BASIN TOP OF BERM AND OVERFLOW WEIR GRADES) AND VOLUME (VERIFIED, SIGNED, & SEALED BY A PROFESSIONAL ENGINEER (PE) OR PROFESSIONAL LAND SURVEYOR (PLS)); ELEVATION AND LOCATION (TIES TO TWO POINTS) OF ALL NEW STRUCTURES INCLUDING FIRE HYDRANTS, VALVE BOXES AND VAULTS, LINES/POST SLEEVES, WATER SERVICE CORPORATION STOPS, WATER MAIN FITTINGS/GENIES, MANHOLES, SANITARY SERVICE WYES (MEASURED FROM DOWNSTREAM MANHOLE), ALL STORM/SANITARY SEWER STRUCTURES (INCLUDING INVERTS AND PIPE SIZES), ALL PIPES (LOCATIONS, SLOPES, LENGTHS, ETC.), OUTLET CONTROL STRUCTURES (INCLUDING STRUCTURE SIZES AND ELEVATIONS PLUS TOP OF WALL) AND ABANDONED WATER OR SANITARY SERVICE LINES. DETAILED TOPOGRAPHIC SURVEY OF ALL HIGH POINTS, LOW POINTS, CHANGE OF SLOPE INCLUDING GUTTER GRADES, TOP OF CURB GRADES, PAVEMENT GRADES, SIDEWALK GRADES, RAMP GRADES, ETC. TO VERIFY POSITIVE DRAINAGE. ALL ELEVATIONS SHOULD BE REFERENCED TO THE SAME BENCHMARK DATUM AS THE ORIGINAL DESIGN PLANS. HORIZONTAL TIES SHALL BE REFERENCED TO LOT LINES, BACK OF CURB, OR PROPERTY CORNERS. WITHIN DETENTION/IMP AREAS: FOR VERIFICATION OF DETENTION VOLUME AND SUBBASE GRADES, PRIOR TO BACK FILLING WITH CA-7, THE CONTRACTOR SHALL PROVIDE ENGINEER WITH A CERTIFIED TOPSOIL SURVEY OF AS-BUILT SUBBASE GRADES FOR ENGINEER APPROVAL AND ALSO A COPY OF RECEIPT OF THE CA-7 AGGREGATE.
- EMERGENCY VEHICLE ACCESS IS TO BE MAINTAINED THROUGHOUT DURATION OF PROJECT. VEHICLE ACCESS IS TO BE CLEARLY MARKED. ANY ALTERATION OF EMERGENCY VEHICLE ROUTE OR ACCESS IS TO BE APPROVED BY THE VILLAGE OF DOWNERS GROVE, ILLINOIS.

TRAFFIC CONTROL

- THE TRADE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL (IDOT STANDARD 701006) AT ALL TIMES WHEN ANY VEHICLES, EQUIPMENT, WORKER, OR ACTIVITY ENROUCH ADJACENT ROADWAYS FROM 15 FEET TO THE EDGE OF PAVEMENT. THE TRADE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL (IDOT STANDARD 701501) WHEN ACTIVITY ENROACHES THE EDGE OF PAVEMENT FOR THESE ROADS.
- IF THE OPERATION IS 15 FEET OR MORE, OFF THE EDGE OF PAVEMENT, NO SIGNING WILL BE REQUIRED UNLESS TWO OR MORE VEHICLES CROSS THE 15 FOOT CLEAR ZONE IN ONE HOUR.
- WHEN WORKING WITHIN 2 FEET OF THE PAVEMENT EDGE, CONES, DRUMS, OR BARRICADES SHALL BE PLACED ACCORDING TO THE STANDARD 701101 REQUIREMENTS.
- CONTRACTOR MUST FOLLOW ALL VILLAGE OF DOWNERS GROVE AND DUPAGE COUNTY DEPARTMENT OF TRANSPORTATION REQUIREMENTS FOR TRAFFIC CONTROL.

HOT MIX ASPHALT PAVING

- SUBGRADE PREPARATION, BASE COURSE PLACEMENT, AND HMA PAVEMENT SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS AND RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
- DEPRESSIONS OF FINAL HMA SURFACES SHALL NOT EXCEED 1/4 INCH FROM PROPOSED CORRECTIONS TO NON-COMPLIANT AREAS ORDERED BY THE CONSTRUCTION MANAGER SHALL BE MADE AT NO ADDITIONAL CHARGE.
- ALL SIGNAGE AND STRIPING SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.

STORM SEWER

- CONTRACTOR TO FOLLOW ALL VILLAGE OF DOWNERS GROVE REQUIREMENTS.
- ALL STORM STRUCTURES AND SEWERS ARE TO BE CLEANED PRIOR TO FINAL ACCEPTANCE. THE TRADE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING SEDIMENT FROM THE STORM SEWER STRUCTURES AND PIPES DURING CONSTRUCTION AND UNTIL 90% OF VEGETATION IS ESTABLISHED.
- MANHOLES, CATCH BASINS, INLETS, BEDDINGS AND TRENCH BACKFILL SHALL CONFORM TO THE CONSTRUCTION DETAILS, STANDARD SPECIFICATIONS AND ISPE SPECIFICATIONS.
- ALL STORM SEWER SHOULD BE PVC SDR 26 OR STRONGER.

EARTHWORK

- ALL AREAS SHALL BE CLEARED AND TILLED IN PREPARATION TO RECEIVE SEED. REFER TO SPECIFICATIONS FOR REQUIREMENTS.
- THE TRADE CONTRACTOR SHALL APPLY FERTILIZER AND SEED TO ALL DISTURBED AREAS, AS NOTED ON THE CONSTRUCTION DRAWINGS. TRADE CONTRACTOR SHALL APPLY FERTILIZER AND SEED USING THE HYDROSEED METHOD. FERTILIZER AND SEED QUANTITIES AND SEEDING PROCEDURES SHALL CONFORM TO THE SPECIFICATIONS.
- THE TRADE CONTRACTOR WILL INSPECT THE SEEDED AREAS AFTER SEEDING, TO RECEIVE FINAL ACCEPTANCE. SEEDED AREAS MUST SUPPORT DENSE, THRIVING GRASSES SUFFICIENT TO PROTECT THE SOIL FROM EROSION IN A MODERATE RAINFALL AREAS THAT, IN THE OPINION OF THE OWNER & ENGINEER, DO NOT MEET THIS REQUIREMENT, MUST BE IMMEDIATELY RESEED, REFER TO SPECIFICATIONS FOR ALL REQUIREMENTS.
- TOPSOIL FOR RESTORATION AREAS SHALL COMPLY WITH THE STANDARD SPECIFICATIONS. TOPSOIL MAY BE SALVAGED FROM THE SITE AND STOCKPILED FOR REUSE WHEN ALL WORK IS COMPLETED. ADDITIONAL TOPSOIL REQUIRED TO COMPLETE THE JOB SHALL BE OBTAINED FROM OFF-SITE SOURCES AT THE TRADE CONTRACTORS EXPENSE. SALVAGED TOPSOIL SHALL BE SUBJECT TO THE ENGINEERS APPROVAL AND WILL BE REJECTED IF NOT CLEAN, UNCONTAMINATED MATERIAL.
- THE CROWNS AND ROOT OF TREES WHICH ARE TO BE PRESERVED IN THE PROJECT AREA, BUT WHICH COULD BE NEGATIVELY AFFECTED DURING THE CONSTRUCTION PROCESS, SHALL BE PRUNED BY A QUALIFIED ARBORIST ACCORDING TO THE TREE PRUNING STANDARDS SET BY ANSI Z100 CODE.
- POROUS GRANULAR EMBANKMENT, SUBGRADE

THIS WORK CONSISTS OF FURNISHING, PLACING, AND COMPACTING POROUS GRANULAR MATERIAL AS DIRECTED BY THE ENGINEER. POROUS GRANULAR EMBANKMENT SHALL CONSIST OF CA-1 AGGREGATE CAPPED WITH A 3 INCHES NOMINAL THICKNESS TOP LIFT OF CA-8 CAPPING AGGREGATE. THE MATERIAL SHALL BE USED AS A BRIDGING LAYER OVER SOFT, PUMPY, AND LOOSE SOIL AND SHALL CONFORM.

THE POROUS GRANULAR MATERIAL SHALL BE PLACED IN ONE LIFT WHEN THE TOTAL THICKNESS TO BE PLACED IS 2 FEET OR LESS OR AS DIRECTED BY THE ENGINEER. EACH LIFT OF THE POROUS GRANULAR MATERIAL SHALL BE ROLLED WITH A VIBRATORY ROLLER MEETING THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS TO OBTAIN THE DESIRED KEYING OR INTERLOCK AND COMPACTION. THE ENGINEER SHALL VERIFY THAT ADEQUATE KEYING HAS BEEN OBTAINED.

CONSTRUCTION EQUIPMENT NOT NECESSARY FOR THE COMPLETION OF THE REPLACEMENT MATERIAL WILL NOT BE ALLOWED ON THE UNDERCUT AREAS UNTIL COMPLETION OF THE RECOMMENDED THICKNESS OF THE POROUS GRANULAR EMBANKMENT SUBGRADE.

FULL DEPTH SUBGRADE UNDERCUT SHOULD OCCUR AT LIMITS DETERMINED BY THE ENGINEER. A TRANSITION SLOPE TO THE FULL DEPTH OF UNDERCUT SHALL BE MADE OUTSIDE OF THE UNDERCUT LIMITS AT A TAPER OF 1 FOOT LONGITUDINAL PER 1 INCH DEPTH BELOW THE PROPOSED SUBGRADE OR BOTTOM OF THE PROPOSED AGGREGATE SUBGRADE WHEN INCLUDED IN THE CONTRACT.

THIS WORK WILL BE MEASURED FOR PAYMENT IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, WHEN SPECIFIED ON THE CONTRACT, THE THEORETICAL ELEVATION OF THE BOTTOM OF THE AGGREGATE SUBGRADE SHALL BE USED TO DETERMINE THE UPPER LIMIT OF POROUS GRANULAR EMBANKMENT, SUBGRADE. THE VOLUME WILL BE COMPUTED BY THE METHOD OF AVERAGE END AREAS.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR POROUS GRANULAR EMBANKMENT, SUBGRADE WHICH PRICE SHALL INCLUDE THE CAPPING AGGREGATE, WHEN REQUIRED.

THE POROUS GRANULAR EMBANKMENT, SUBGRADE SHALL BE USED AS FIELD CONDITIONS WARRANT AT THE TIME OF CONSTRUCTION.

SPECIAL EXCAVATION

WORK UNDER THIS ITEM SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS EXCEPT AS HEREIN MODIFIED.

SPECIAL EXCAVATION SHALL INCLUDE THE SATISFACTORY REMOVAL AND OFF-SITE DISPOSAL OF ALL UNSUITABLE MATERIAL BELOW THE SUBGRADE ELEVATION.

AFTER EXCAVATING TO THE REQUIRED SUBGRADE LEVEL, THE ENGINEER & GEOTECH ENGINEER SHALL INSPECT THE SUBGRADE. PRIOR TO PLACING ANY PAVEMENT SECTION MATERIAL THE EXCAVATION LEVEL OR SUBGRADE LEVEL SHALL BE COMPACTED AND, WHERE POSSIBLE, PROOF ROLLED WITH A 40,000 LB TANDEM AXLE TRUCK BY MAKING AT LEAST 4 PASSES. THE COMPACTING AND PROOF ROLLING WILL DETECT SOFT OR UNSTABLE POCKETS OF MATERIAL WHICH SHALL BE REMOVED AND REPLACED AS HEREIN SPECIFIED. THE COMPACTING AND PROOF ROLLING SHALL BE INCIDENTAL TO THE WORK AND NO ADDITIONAL COMPENSATION WILL BE PAID.

IF THE EXISTING SUBGRADE SOIL IS NOT SUITABLE FOR PROVIDING AN IBR SOIL SUPPORT VALUE OF 2, THE TRADE CONTRACTOR SHALL REMOVE THE UNSUITABLE SUBGRADE SOIL BELOW THE PROPOSED SUBGRADE LEVEL TO A DEPTH AS DIRECTED BY THE ENGINEER. COMPACT AND PROOF ROLL THE EXCAVATED AREA. IF UPON PROOF ROLLING THE SUBGRADE IS STILL UNSUITABLE, ADDITIONAL EXCAVATION MAY BE REQUIRED. NO ADDITIONAL COMPENSATION WILL BE MADE REGARDLESS OF THE NUMBER OF TIMES THE AREA IS COMPACTED AND PROOF ROLLED.

CA-1 SHALL BE USED TO BRING THE SUBGRADE TO THE PROPOSED ELEVATION AS INDICATED UNDER THE ITEM POROUS GRANULAR EMBANKMENT, SUBGRADE, POROUS GRANULAR EMBANKMENT, SUBGRADE IS NOT CONSIDERED PART OF THIS ITEM.

THOSE AREAS OF SUBGRADE WHICH ARE NOT OVER EXCAVATED SHALL ALSO BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.

SPECIAL EXCAVATION AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER WILL BE MEASURED FOR PAYMENT IN PLACE AND THE VOLUME IN CUBIC YARDS COMPUTED BY THE METHOD OF AVERAGE END AREAS. EXCAVATION IN EXCESS OF THAT AUTHORIZED SHALL NOT BE MEASURED FOR PAYMENT.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT CUBIC YARD FOR SPECIAL EXCAVATION, WHICH PRICE SHALL INCLUDE ALL COSTS ASSOCIATED WITH UNSUITABLE MATERIAL REMOVAL AND LEGAL DISPOSAL, GRADING COMPACTING AND PROOF ROLLING OF SUBGRADE.

IF THE OWNER IS REQUIRED TO HAVE A GEOTECHNICAL ENGINEER ON-SITE TO MONITOR EARTHWORK, AND THE GRADING ACTIVITY, IN ORDER TO IDENTIFY UNSUITABLE SOILS FOR REMOVAL FROM THE SITE, CONTRACTOR TO ENSURE REQUIREMENTS ARE MET.

SEDIMENT AND EROSION CONTROL

- AN INITIAL SEDIMENTATION AND EROSION CONTROL INSPECTION IS REQUIRED PRIOR TO STARTING CONSTRUCTION. THE APPLICANT IS DIRECTED TO CONTACT THE COMMUNITY DEVELOPMENT DEPARTMENT AT 630-434-5529 TO SCHEDULE THIS INSPECTION; THIS NOTIFICATION SHALL BE AT LEAST 24 HOURS IN ADVANCE OF CONSTRUCTION.
- THE SEDIMENT AND EROSION CONTROL DEVICES SHALL BE FUNCTIONAL BEFORE ANY LAND IS DISTURBED ON THE SITE.
- STOCKPILES OF SOIL SHALL NOT BE LOCATED WITHIN ANY DRAINAGE WAYS, FLOODPLAINS, WETLANDS, BUFFERS OR LPDAS.
- SEDIMENT AND EROSION CONTROL SHALL BE PROVIDED FOR ANY SOIL STOCKPILE IF IT IS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS INCLUDING A DOUBLE ROW OF SILT FENCE OR COIR ROLL.
- PROPERTIES DOWNSTREAM FROM THE SITE SHALL BE PROTECTED FROM EROSION IF THE VOLUME, VELOCITY, SEDIMENT LOAD, OR PEAK FLOW RATES OF STORMWATER RUNOFF ARE TEMPORARILY INCREASED DURING CONSTRUCTION.
- STORM SEWER INLETS SHALL BE PROTECTED WITH SEDIMENT TRAPPING OR FILTER CONTROL DEVICES DURING CONSTRUCTION.
- THE SURFACE OF STRIPPED AREAS SHALL BE PERMANENTLY OR TEMPORARILY PROTECTED FROM SOIL EROSION WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED. STRIPPED AREAS THAT WILL REMAIN UNDISTURBED FOR MORE THAN SEVEN (7) DAYS AFTER INITIAL DISTURBANCE SHALL BE PROTECTED FROM EROSION.
- WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DOWATERING SHALL BE FILTERED.
- A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROVIDED TO PREVENT THE DEPOSITION OF SOIL ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED BEFORE THE END OF EACH WORKDAY.
- ALL TEMPORARY EROSION CONTROL MEASURES NECESSARY TO MEET THE REQUIREMENTS OF THE VILLAGE OF DOWNERS GROVE STORMWATER AND FLOOD PLAIN ORDINANCE SHALL BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE PERIOD OF LAND DISTURBANCE UNTIL PERMANENT SEDIMENT AND EROSION AND CONTROL MEASURES ARE OPERATIONAL.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL STABILIZATION IS ACHIEVED. TRAPPED SEDIMENT AND OTHER DISTURBED SOILS RESULTING FROM TEMPORARY MEASURES SHALL BE PROPERLY DISPOSED OF PRIOR TO PERMANENT STABILIZATION.
- TRADE CONTRACTOR SHALL ABIDE BY EROSION CONTROL MEASURES OUTLINED IN THE "ILLINOIS URBAN MANUAL, LATEST EDITION" BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA).
- SILT FENCING AND OTHER EROSION CONTROL DEVICES SHALL BE INSTALLED BY THE TRADE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION ACTIVITIES TO THE LIMITS DELINEATED ON THE PLANS. NO DISTURBANCE OF LAND IS ALLOWED OUTSIDE THE SILT FENCE AND PROJECT LIMITS AS INDICATED ON THE PLANS.
- ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES MUST BE INSPECTED WEEKLY AND MAINTAINED. INSPECTIONS SHALL ALSO BE MADE AFTER A RAINFALL EVENT OF 1/2 INCH OR GREATER OR EQUIVALENT SNOW FALL EVENT. IF NECESSARY, REPAIR OR REPLACEMENT MUST BE PERFORMED IMMEDIATELY TO ASSURE EFFECTIVE PERFORMANCE OF THEIR INTENDED FUNCTIONS.
- IF DOWATERING DEVICES ARE USED, DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. ALL PUMPED DISCHARGES SHALL BE ROUTED THROUGH APPROPRIATELY DESIGNED SEDIMENT TRAPS, BASINS, SEDIMENT FILTER BAGS OR EQUIVALENT MEASURES.
- STABILIZATION OF DISTURBED AREAS MUST BE INITIATED WITHIN 1 WORKING DAY OR PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE BUT NOT LATER THAN 7 DAYS FROM THE INITIATION OF STABILIZATION WORK IN AN AREA.
- MAJOR AMENDMENTS OF THE SITE DEVELOPMENT OR EROSION AND SEDIMENTATION CONTROL PLANS SHALL BE SUBMITTED TO THE MUNICIPALITY TO BE APPROVED IN THE SAME MANNER AS THE ORIGINAL PLANS.
- THE TRADE CONTRACTOR SHALL STABILIZE THE SIDE SLOPES GREATER THAN 10:1 OR WHERE SHOWN ON THE PLANS BY INSTALLING NORTH AMERICAN GREEN SC150BN EROSION CONTROL BLANKET, WITHIN 5 DAYS AFTER FINAL GRADE IS ACHIEVED AND FOLLOWING SEEDING WITH THE TEMPORARY SEED MATRIX. THE EROSION CONTROL BLANKET SHALL BE INSTALLED AS REQUIRED BY THE MANUFACTURER'S STANDARDS AND SPECIFICATIONS.
- TEMPORARY STOCKPILES SHALL HAVE A SILT FENCE ERRECTED AROUND THE PERIMETER OF THE PILE. IF A PILE IS TO REMAIN IN PLACE FOR MORE THAN 14 DAYS, IT SHALL BE TEMPORARY SEEDED.
- SOIL STOCKPILE LOCATIONS MAY BE LOCATED BY THE CONTRACTOR AS NECESSARY ONSITE AND DO NOT NEED TO MATCH EXACT LOCATION AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN. PROVIDE SILT FENCE AROUND ALL STOCKPILE LOCATIONS. NO STOCKPILES SHALL BE PLACED IN THE PROPOSED DETENTION POND OR BE PLACED IN FLOOD PROTECTION AREAS OR THEIR BUFFERS.
- ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY EXISTING STORM DRAINAGE SYSTEM BY THE USE OF INLET PROTECTIONS/FILTER, ROCK CHECK DAMS OR OTHER APPROVED METHODS. THE TRADE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT RESULTING FROM THIS PROJECT FROM ALL SEWERS AND DRAINAGE STRUCTURES (NO FLUSHING DOWNSTREAM) UNTIL 90% OF VEGETATION IS ESTABLISHED.
- TEMPORARY SEDIMENT BARRIERS, INLET PROTECTION/FILTER PROTECTION, FOR STORM SEWER GRATES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS WITHIN THE PLANS AND THE ILLINOIS URBAN MANUAL.
- THE TRADE CONTRACTOR SHALL PRESCRIBE THE METHODS OUTLINED IN THE ILLINOIS URBAN MANUAL TO CONTROL DUST. ACCEPTABLE MEASURES INCLUDE VEGETATIVE COVER (TEMPORARY SEEDING), MULCH, IRRIGATION, STONE, AND PERMANENT VEGETATION (PERMANENT SEEDING). TEMPORARY DUST CONTROL MEASURES (BY MEANS ACCEPTABLE TO LOCAL AUTHORITIES) SHALL BE APPLIED AS NEEDED TO ACCOMPLISH DUST CONTROL.
- IF AN EXISTING ON-SITE ASPHALT ACCESS IS NOT PRESENT THEN, THE TRADE CONTRACTOR SHALL PROVIDE A CONSTRUCTION ACCESS ROAD CONSTRUCTED OF IDOT CA-1 FOR 100 FEET IN LENGTH. THE TRADE CONTRACTOR SHALL MAINTAIN THE ADJACENT ROADS FREE OF MUD AND SEDIMENT AT ALL TIMES. REFER TO THE ILLINOIS URBAN MANUAL STANDARD DRAWING IL-630.
- ALL ACCESS TO AND FROM THE CONSTRUCTION SITE IS TO BE RESTRICTED TO THE CONSTRUCTION ENTRANCE.
- TRADE CONTRACTOR IS RESPONSIBLE FOR KEEPING PUBLIC STREETS CLEAR OF DIRT, DUST, DEBRIS AND MUD ON A DAILY BASIS FOR THE ENTIRE CONSTRUCTION PERIOD BY A MEANS ACCEPTABLE TO LOCAL AUTHORITIES.
- 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.
- A SWPPP IS NOT ANTICIPATED FOR THIS DEVELOPMENT SINCE THE DISTURBED AREA IS LESS THAN 1.0 ACRES

ABBREVIATIONS

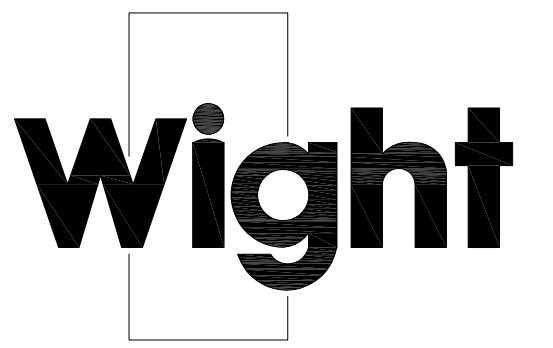
A	ARC LENGTH	MH	MANHOLE
B/C	BACK OF CURB	N.D.L	NO DISTURB LINE
B-B	BACK-TO-BACK OF CURB	N.I.C.	NOT IN CONTRACT
BI	BITUMINOUS PAVEMENT	N.W.E.	NORMAL WATER ELEVATION
B.L.	BUILDING LINE	P.I.	POINT OF INTERSECTION
B.M.	BENCH MARK	P.R.C.	POINT OF REVERSE CURVATURE
BRW	BOTTOM OF RETAINING WALL	P.V.C.	POLYVINYL CHLORIDE
B/W	BACK OF SIDEWALK	P.T.	POINT OF TANGENCY
CHDPE	CORRUGATED HIGH DENSITY POLYETHYLENE PIPE	P.L.	PROPERTY LINE
CO	CLEAN OUT	P.C.	POINT OF CURVATURE
C & G	CURB AND GUTTER	P.VI	POINT OF VERTICAL INTERSECTION
C.B.	CATCH BASIN	R	RADIUS
CP	CONTROL POINT	RCP	REINFORCED CONCRETE PIPE
DWG.	DRAWING	REC.	RECORD DIMENSION
D.I.P.	DUCTILE IRON PIPE	R.O.W.	RIGHT-OF-WAY
DI.A.	DIAMETER	RT	RIGHT
D	DISTANCE	SHT	SHEET
DC	DEPRESSED CURB	S	SLOPE
D.E.	DRAINAGE EASEMENT	STA	STATION
D.V.	DETECTION VOLUME	STMH	STORM MANHOLE
DS	DOWNSPOUT	SAN	SANITARY
ELEV./ EL.	ELEVATION	SMH	SANITARY MANHOLE
E/P	EDGE OF PAVEMENT	T.E.	TOP ELEVATION
E.J.	EXPANSION JOINT	T/C	TOP OF CURB
EX.	EXISTING	T.O.P.	TOP OF PIPE
F.G.	FINISH GRADE	T	TELEPHONE
F-F	FACE-TO-FACE OF CURB OR WALL	TRW	TOP OF RETAINING WALL
F/L	FLOW LINE	TYP	TYPICAL
F.H.	FIRE HYDRANT	U.E.	UTILITY EASEMENT
F.E.S.	FLARED END SECTION	V.C.	VERTICAL CURVE
FIP	FOUND IRON PIPE	V.I.F.	VERTIFIED HUB TILE
F/F	FINISHED FLOOR	V.B.	VALVE BOX
GAV	GAS VALVE	V.V.	VALVE VAULT
GF	GRADE AT FOUNDATION	V.C.P.	VERTIFIED CLAY PIPE
G.L.	GUTTER LINE	VER.	VERTICAL
GR	GRADE ELEVATION	W	WATER
GV/VV	GATE VALVE IN VALVE VAULT	W/W	WITH
GV/VB	GATE VALVE IN VALVE BOX	WM	WATER MAIN
HDW	HEADWALL		
HOR.	HORIZONTAL		
H.W.E.	HIGH WATER ELEVATION		
I.E. / INV.	INVERT ELEVATION		
INL.	INLET		
IRR.	IRRIGATION		
L	LENGTH		
L.P.	LIGHT POLE		
LT	LEFT		
(M)	MEASURED BEARING OR DISTANCE		
M/E	MATCH EXISTING		
M.O.	MID ORDINATE		

LEGEND

EXISTING			
	STORM SEWER		FIRE HYDRANT
	SANITARY SEWER		WATER VALVE VAULT
	WATER MAIN		WATER VALVE BOX
	TELEPHONE		WATER BUFFALO BOX
	ELECTRICAL		WATER METER
	GAS MAIN		ELECTRIC METER
	GUARD RAIL		GAS METER
	EXISTING FENCE		GAS VALVE
	STORM MANHOLE		CLEANOUT
	CATCH BASIN		VILLAGE ELEC. MH
	INLET		COMED ELEC. MH
	FLARED END SECTION		TELEPHONE MH
	SANITARY MANHOLE		SOIL BORING
	DECIDUOUS TREE		LIGHT POLE
	EVERGREEN TREE		POWER POLE
	SIGN		TELEPHONE POLE
PROPOSED			
	COMBINED SEWER		FIBER OPTIC CONDUIT
	STORM SEWER		ELECTRIC LIGHT
	SANITARY SEWER		CLEANOUT ACCESS
	WATER MAIN		FIRE HYDRANT
	TELEPHONE		WATER VALVE VAULT
	ELECTRICAL		WATER VALVE BOX
	GAS MAIN		ELECTRIC MANHOLE
	GUARD RAIL		TELEPHONE PEDESTAL
	STORM MANHOLE		GAS METER
	CATCH BASIN		DOWNSPOUT
	SANITARY MANHOLE		
	DECIDUOUS TREE		
	SIGN		
	TELEVISION		
	ELECTRIC GENERATOR		
	ELECTRIC TRANSFORMER		
	ELECTRIC METER BOX		
	SILT FENCE		
	FENCE/GATE		



DOWNERS GROVE GRADE SD 58



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REV	DESCRIPTION	DATE

INDIAN TRAIL ELEMENTARY SCHOOL PLAYGROUND

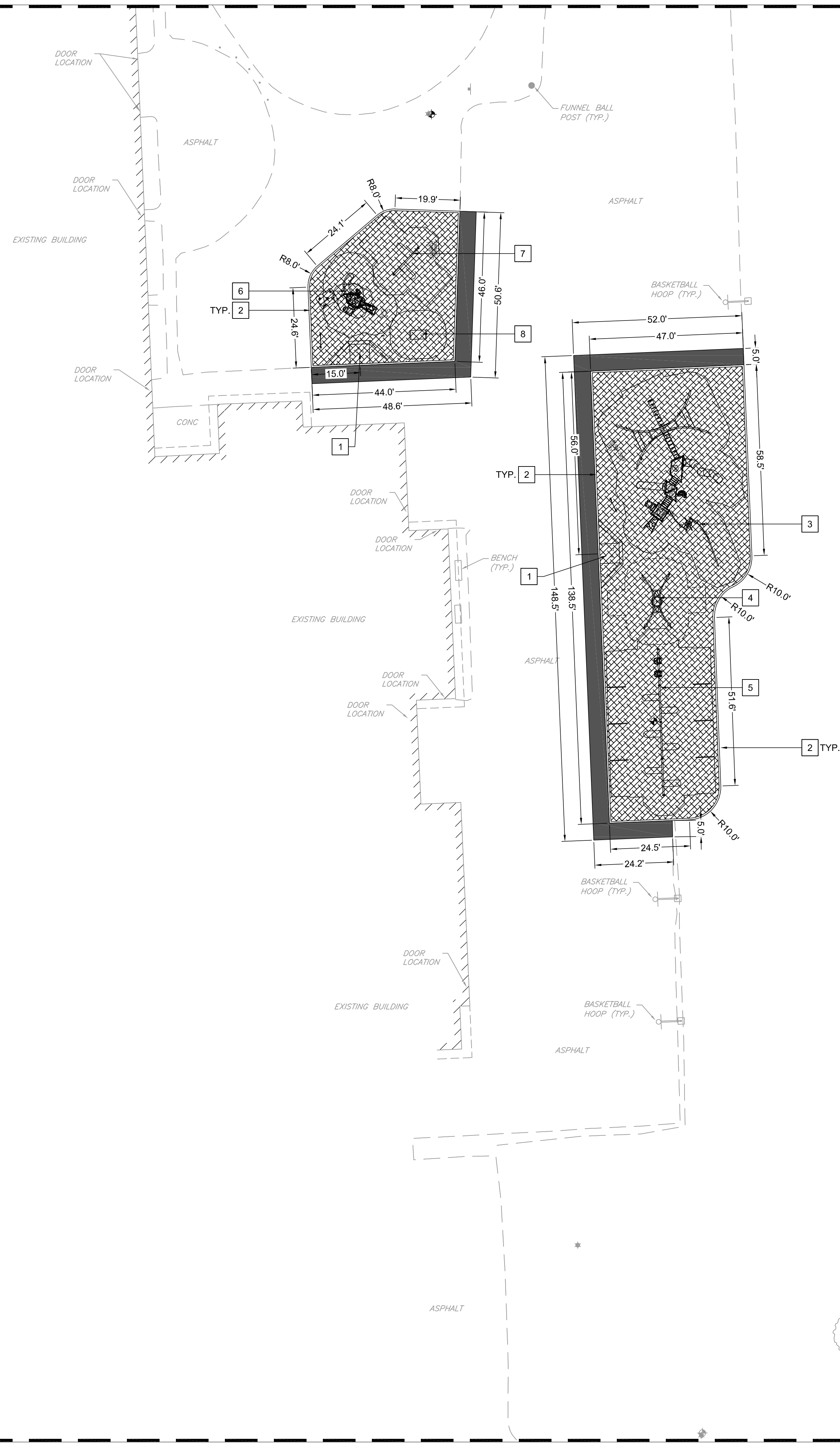
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GENERAL NOTES

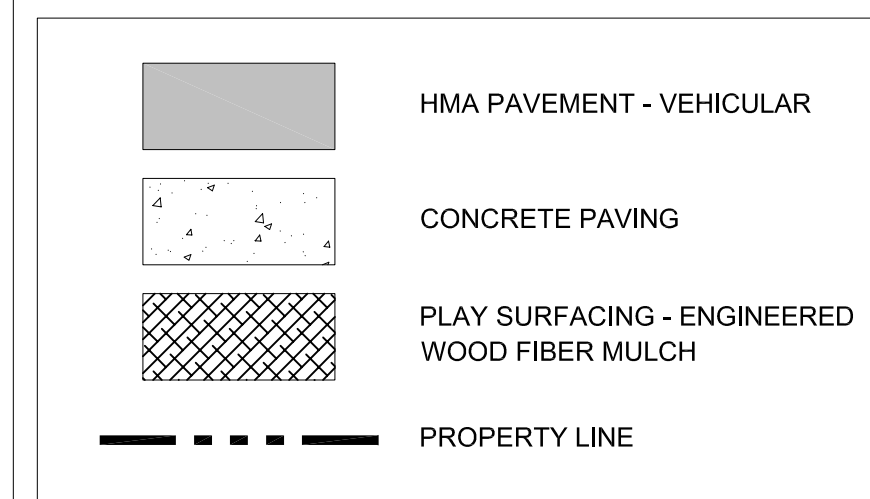
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Drawn By: LMB
 Sheet: C0.01

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LEGEND

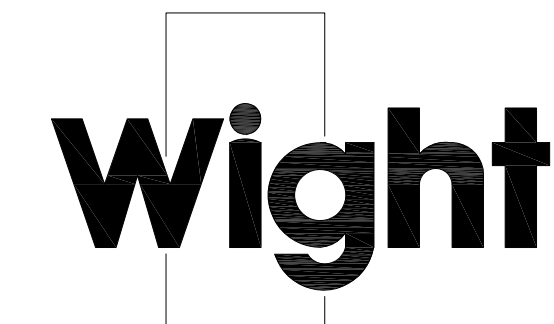


KEY NOTES

- 1 PLAYGROUND RAMP
- 2 PLAYGROUND CURB
- 3 MAIN PLAYGROUND STRUCTURE. PLAY EQUIPMENT PURCHASED BY OWNER AND INSTALLED BY CONTRACTOR.
- 4 NEST SWING. PLAY EQUIPMENT PURCHASED BY OWNER AND INSTALLED BY CONTRACTOR.
- 5 MAIN SWINGS. PLAY EQUIPMENT PURCHASED BY OWNER AND INSTALLED BY CONTRACTOR.
- 6 ECC PLAYGROUND STRUCTURE. PLAY EQUIPMENT PURCHASED BY OWNER AND INSTALLED BY CONTRACTOR.
- 7 ECC SWINGS. PLAY EQUIPMENT PURCHASED BY OWNER AND INSTALLED BY CONTRACTOR.
- 8 ECC INDEPENDENT PLAY STRUCTURE. PLAY EQUIPMENT PURCHASED BY OWNER AND INSTALLED BY CONTRACTOR.

SITE PLAN AND LAYOUT NOTES

1. ALL LAYOUT FOR SITE IMPROVEMENTS SHALL BE COMPLETED BY A PROFESSIONAL LAND SURVEYOR HIRED BY THE CONTRACTOR. LAYOUT SHALL BE COMPLETED USING THE ELECTRONIC CAD FILES PROVIDED BY THE ENGINEER. NO ADDITIONAL PAYMENT WILL BE MADE FOR ADJUSTMENT NECESSARY TO CONSTRUCT THE WORK AS DRAWN.
2. CONTRACTOR SHALL OBTAIN APPROVAL OF LAYOUT FROM THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION. NO ADDITIONAL PAYMENT SHALL BE MADE TO CORRECT WORK IF CONSTRUCTED INCORRECTLY PRIOR TO APPROVAL OF LAYOUT.
3. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL LAYOUT MARKINGS. NO ADDITIONAL PAYMENT WILL BE MADE TO REPLACE MARKINGS.
4. ALL DIMENSIONS, CURB RADII, AND ELEVATIONS REFER TO THE BACK OF CURB WHERE CURBS SHOWN UNLESS OTHERWISE SHOWN. ALL WALL DIMENSIONS ARE TO THE FACE OF WALL UNLESS OTHERWISE SHOWN. ALL PAVEMENT DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE SHOWN. COORDINATES ARE TO THE BACK OF CURB, CENTER OF STRUCTURE, OR AS SHOWN.
5. ALL RADII SHALL BE SMOOTH AND CONTINUOUS AND NOT SEGMENTED. CONTRACTOR TO PROVIDE STAKES A MINIMUM OF EVERY 10 FEET WHERE RADIUS POINTS ARE NOT ACCESSIBLE.
6. ADJUSTMENTS TO STAKE LOCATIONS DUE TO DISCREPANCIES BETWEEN COORDINATES AND DIMENSIONS ARE CONSIDERED INCIDENTAL TO THE WORK.
7. CONTRACTOR RESPONSIBLE TO TAKE DELIVERY, VERIFY CONDITION AND COMPLETENESS, ASSEMBLE AND INSTALL ALL MATERIALS AND FURNISHINGS PER MANUFACTURER'S INSTRUCTIONS.
8. PLACE CONTROL AND EXPANSION JOINTS WHERE INDICATED ON PLANS AND DETAILS FOR CONCRETE WORK. WHERE JOINTS ARE NOT SHOWN, PLACE CONTROL JOINTS IN SPACING TO MATCH PAVEMENT WIDTH OR MAXIMUM OF 10 FEET ON CENTER. EXPANSION JOINTS SHALL BE A MAXIMUM OF 30 FEET ON CENTER AND BETWEEN ALL POURS AND EXISTING CONCRETE OR WALLS.
9. ANY CHANGE TO THE SITE PLAN DURING DESIGN OR IN FIELD DURING CONSTRUCTION MUST BE SUBMITTED IN WRITING TO THE ENGINEER AND VILLAGE OF DOWNERS GROVE.



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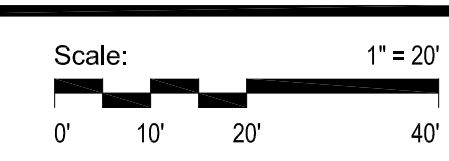
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**INDIAN TRAIL
 ELEMENTARY SCHOOL
 PLAYGROUND**

6235 Stonewall Avenue
 Downers Grove, IL 60516

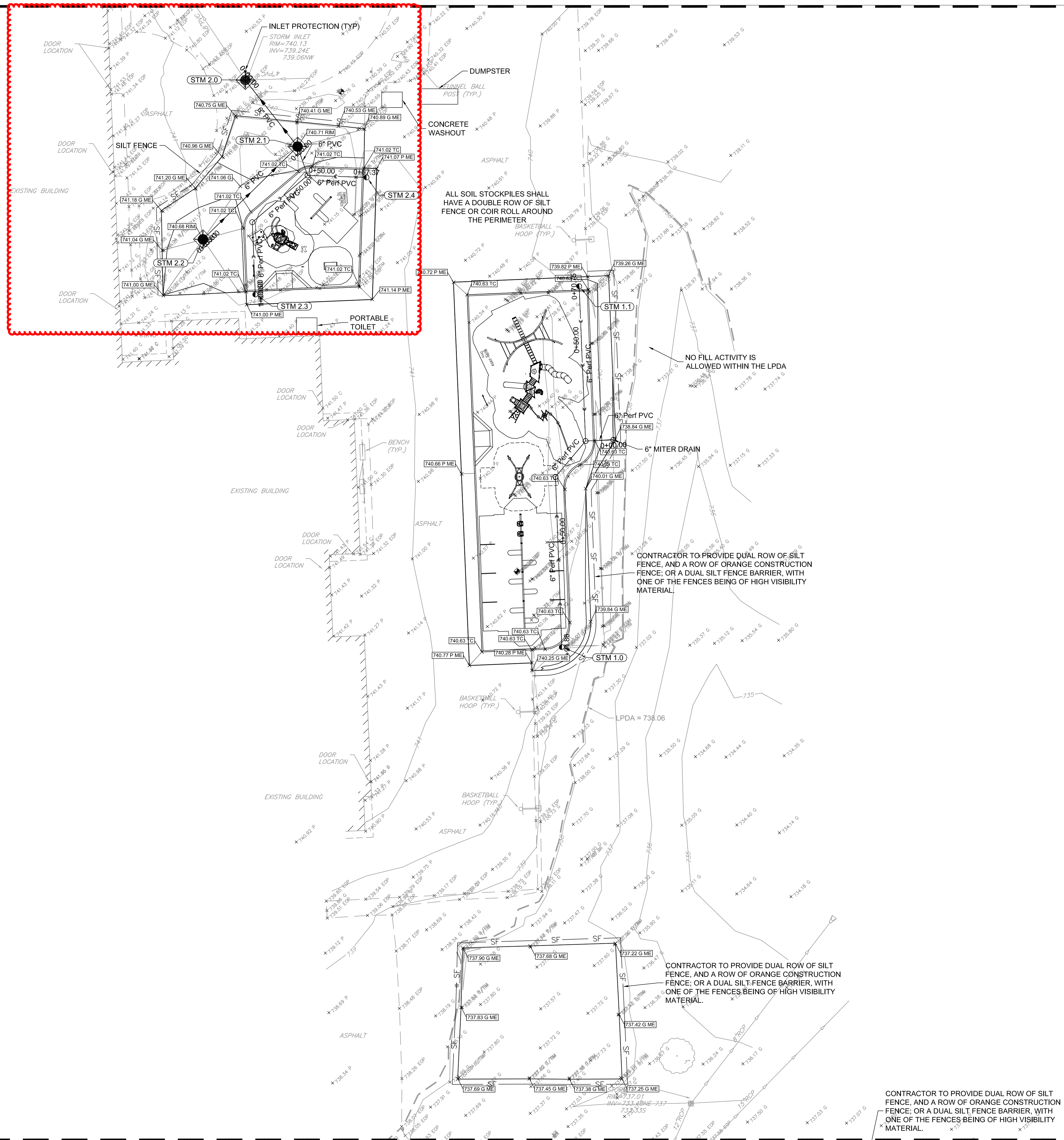
SITE PLAN ENLARGEMENT

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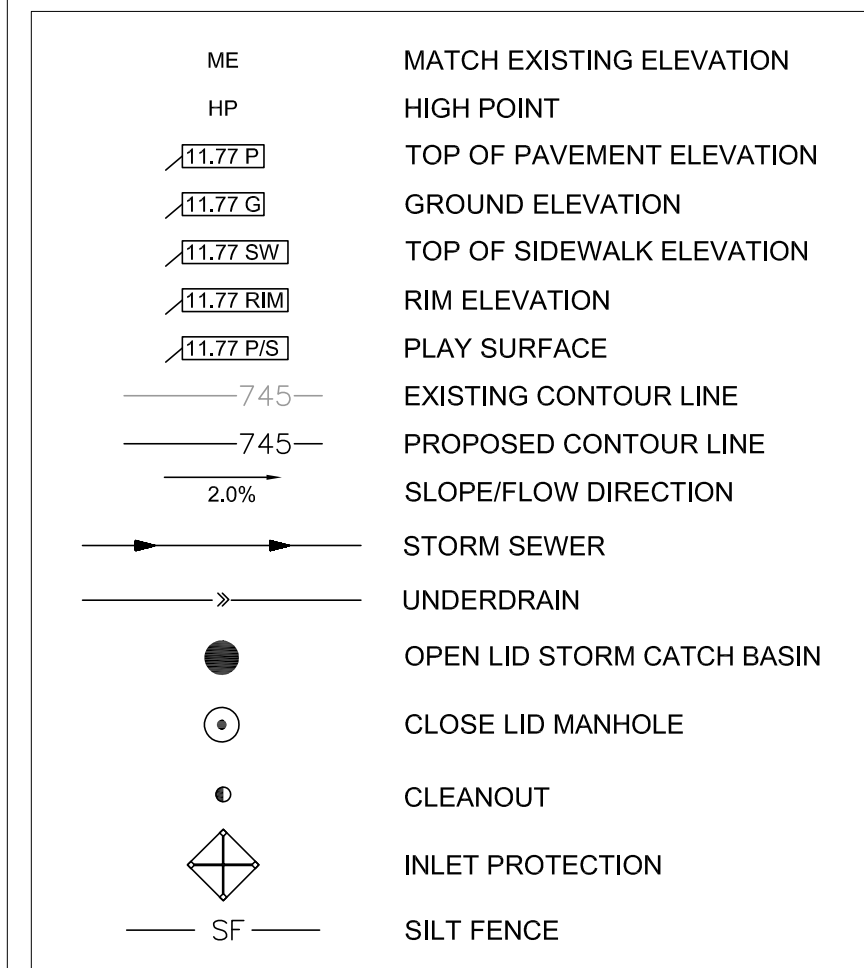


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S:\Darien\Downers Grove SD58\200032_Indian Trail Playground\01\11 Drawings\02 CD\200032_C3.00 GRADING AND EROSION CONTROL PLAN.dwg devans Feb 27, 2023 3:27:21 pm
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LEGEND



GRADING NOTES

- CONTRACTOR TO VERIFY ALL EXISTING UTILITY LOCATIONS, SIZES, SLOPES, INVERTS, ETC. AND CONTACT ENGINEER IMMEDIATELY IF THERE ARE ANY CONFLICTS/DISCREPANCIES.
- CONTRACTOR TO PROTECT ALL EXISTING UTILITIES.
- ALL EXISTING UTILITY STRUCTURES SHALL BE ADJUSTED AS NECESSARY TO MATCH FINISH GRADE. ALL EXISTING UTILITY STRUCTURES REQUIRING ADJUSTMENT OR RECONSTRUCTION SHALL BE COMPLETED BY THE CONTRACTOR TO THE SATISFACTION OF THE UTILITY OWNER. ADJUSTMENTS AND/OR RECONSTRUCTIONS NOT CALLED FOR ON THE PLANS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. NO MORE THAN A TOTAL OF 12 INCHES OF ADJUSTING RINGS AND/OR 2 ADJUSTING RINGS SHALL BE ALLOWED.
- ALL SITE WORK SHALL BE IN CONFORMANCE WITH THE ILLINOIS ACCESSIBILITY CODE AND WITH THE AMERICANS WITH DISABILITIES ACT.
- SLOPES BETWEEN SPOT ELEVATIONS ON PATHWAYS SHALL BE CONSISTENT.
- MAXIMUM SLOPE ON ALL PAVED SURFACES IS 1:20 (5%). RAMPS SHALL NOT EXCEED A RUNNING SLOPE OF 1:12 (8.33%).
- ALL SURFACES SHALL BE GRADED FOR POSITIVE DRAINAGE. MAXIMUM CROSS-SLOPE ON ANY WALK OR RAMPS SHALL BE 2% IN DIRECTION INDICATED. IF NO DIRECTION IS INDICATED, GRADE FOR POSITIVE DRAINAGE AWAY FROM WALLS, COLUMNS, STEPS, AND STRUCTURES.
- ALL ACCESSIBLE PARKING SPACES AND LOADING ZONES SHALL HAVE A MAXIMUM SLOPE OF 2% IN ANY DIRECTION.
- AVOID EXCESSIVE FILL IN CRITICAL ROOT ZONES. SEE SPECIFICATIONS. FEATHER NEWLY GRADED AREAS INTO EXISTING GRADE.
- TOPSOIL IN AREAS DESIGNATED FOR PAVING SHALL BE STRIPPED AND RESPAID IN ACCORDANCE WITH GRADING PLAN. HAUL OFF SITE AND LEGALLY DISPOSE OF UNSUITABLE OR EXCESS EXCAVATED MATERIAL.
- TOPSOIL IN AREAS OF NEWLY CREATED BERMS SHALL BE STRIPPED AND STOCKPILED. CONSTRUCT BERM USING ON SITE FILL MATERIAL OR IMPORTED MATERIAL AS DIRECTED. RESPAID TOPSOIL IN ACCORDANCE WITH GRADING PLAN AND SPECIFICATIONS.
- TOPSOIL SHALL BE IMPORTED AS NEEDED AND SPREAD AT SPECIFIED DEPTHS TO ACHIEVE FINAL GRADE. GRANULAR FILL WILL NOT BE ACCEPTED UNDER TURF OR PLANTING AREAS.
- PROMPTLY NOTIFY OWNER'S REPRESENTATIVE IS UNSATISFACTORY SUB-GRADE MATERIALS ARE DISCOVERED.
- OBTAIN LANDSCAPE ARCHITECT'S REVIEW OF FINE GRADING PRIOR TO SEEDING OPERATIONS.
- REFER TO SPECIFICATIONS FOR ADDITIONAL CONDITIONS, STANDARDS, AND NOTES.
- ANY SOIL STOCKPILES SHALL BE PROTECTED WITH DOUBLE ROW OF SILTY FENCE COIR ROLL AROUND PERIMETER.
- ANY DAMAGE TO TREES WITHIN THE VILLAGE RIGHT OF WAY AS A RESULT OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE APPLICANT TO ADDRESS AT THE DIRECTION OF THE VILLAGE FORESTER.

AS-BUILT NOTES:

THE CONTRACTOR IS RESPONSIBLE FOR ALL AS-BUILT SURVEYS. ALL AS-BUILT SURVEYS SHALL BE COMPLETED BY A PROFESSIONAL LAND SURVEYOR AND BE SIGNED AND SEALED. THE GRADING AND UTILITY CONSTRUCTION PLANS SHOULD BE USED AS THE BACKGROUND FOR ALL AS-BUILTS. THE CONTRACTOR SHALL SUBMIT TWO SETS OF THE "AS-BUILT" FINAL ENGINEERING DRAWINGS (I.E. RECORD DRAWINGS) AND STORMWATER MANAGEMENT CALCULATIONS UPON COMPLETION OF IMPROVEMENTS AND INCLUDE ELECTRONIC CAD FILES. THE RECORD DRAWINGS SHOULD AT LEAST INCLUDE THE FOLLOWING INFORMATION: AS-BUILT DETENTION CONTOURS, ELEVATIONS (INCLUDING DETENTION BASIN TOP OF BERM AND OVERFLOW WEIR GRADES) AND VOLUME (VERIFIED, SIGNED, & SEALED BY A PROFESSIONAL ENGINEER (PE) OR PROFESSIONAL LAND SURVEYOR (PLS)); ELEVATION, AND LOCATION (TIES TO TWO POINTS) OF ALL NEW STRUCTURES INCLUDING FIRE HYDRANTS, VALVE BOXES AND VAULTS, LINSTOP SLEEVES, WATER SERVICE CORPORATION STOPS, WATER MAIN FITTINGS/BENDS, MANHOLES, SANITARY SERVICE WYES (MEASURED FROM DOWNSTREAM MANHOLE). ALL STORM/SANITARY SEWER STRUCTURES (INCLUDING INVERTS AND PIPE SIZES), ALL PIPES (LOCATIONS, SLOPES, LENGTHS, ETC.), OUTLET CONTROL STRUCTURES (INCLUDING RESTRICTOR SIZES AND ELEVATIONS PLUS TOP OF WALL) AND ABANDONED WATER OR SANITARY SERVICE LINES. DETAILED TOPOGRAPHIC SURVEY OF ALL HIGH POINTS, LOW POINTS, CHANGE OF SLOPE INCLUDING GUTTER GRADES, TOP OF CURB GRADES, PAVEMENT GRADES, SIDEWALK GRADES, RAMP GRADES, ETC. TO VERIFY POSITIVE DRAINAGE. ALL ELEVATIONS SHOULD BE REFERENCED TO THE SAME BENCHMARK DATUM AS THE ORIGINAL DESIGN PLANS. HORIZONTAL TIES SHALL BE REFERENCED TO LOT LINES, BACK OF CURB, OR PROPERTY CORNERS. WITHIN DETENTION/BMP AREAS: FOR VERIFICATION OF DETENTION VOLUME AND SUBBASE GRADES, PRIOR TO BACK FILLING WITH CA-7, THE CONTRACTOR SHALL PROVIDE ENGINEER WITH A CERTIFIED TOPO SURVEY OF AS-BUILT SUBBASE GRADES FOR ENGINEER APPROVAL AND ALSO A COPY OF RECEIPT OF THE CA-7 AGGREGATE.



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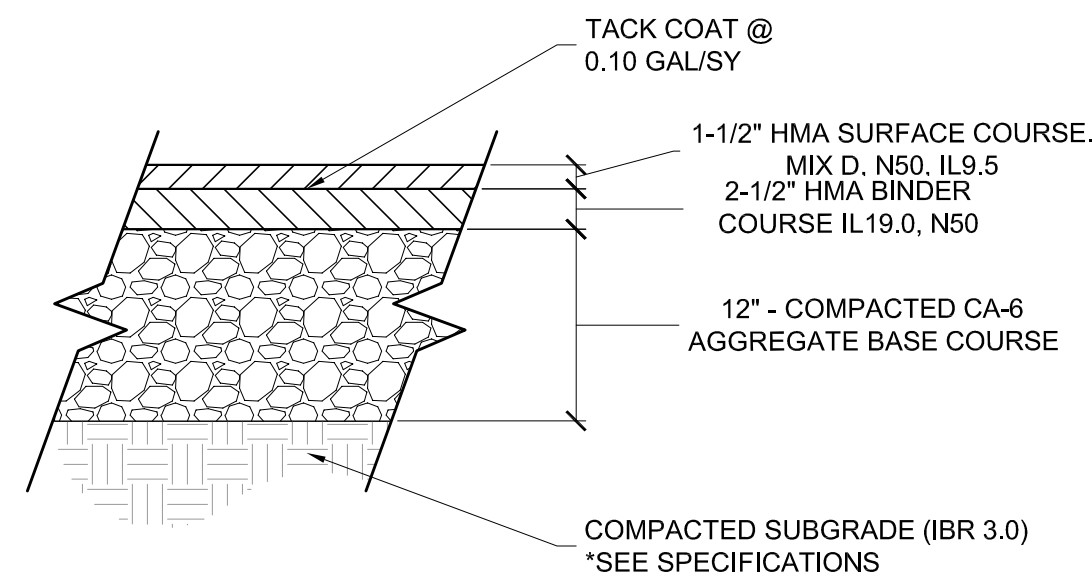
**INDIAN TRAIL
 ELEMENTARY SCHOOL
 PLAYGROUND**

6235 Stonewall Avenue
 Downers Grove, IL 60516

**GRADING AND DRAINAGE
 PLAN ENLARGEMENT**

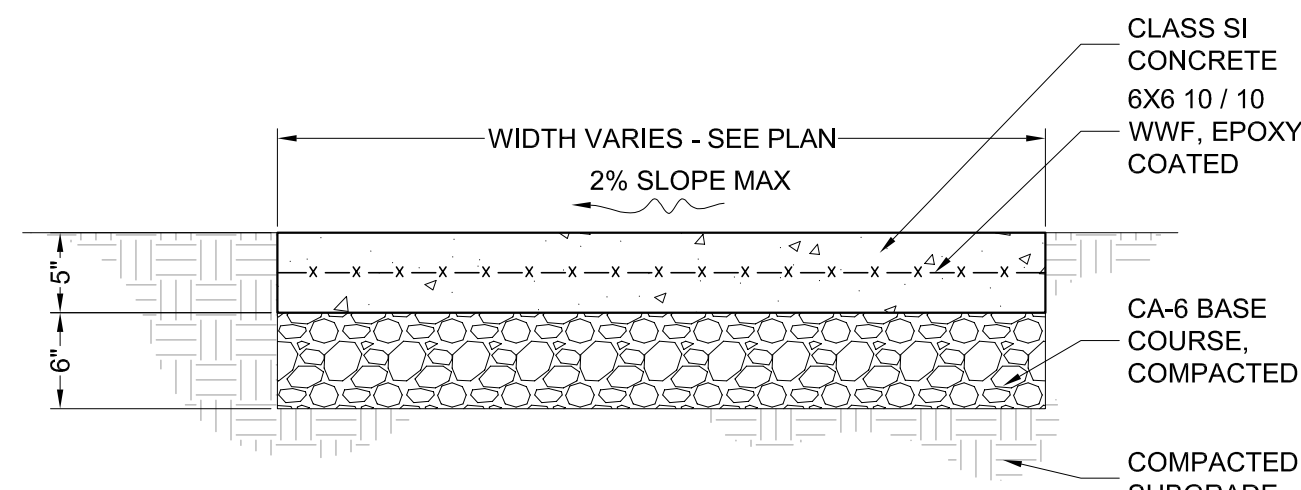
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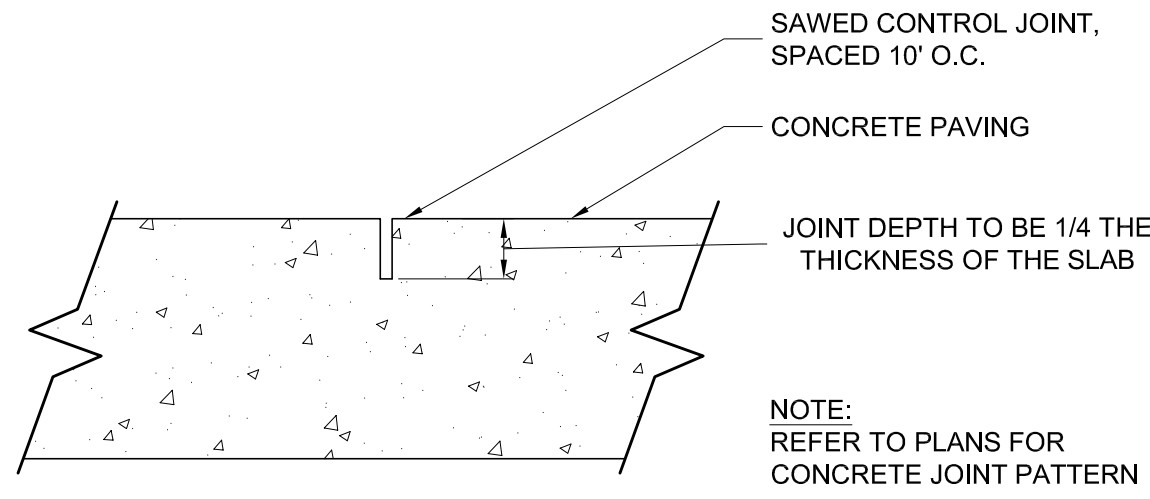
NOTES:
 1. FOR UNSUITABLE SUBGRADES UNDERCUT PER GEOTECHNICAL'S / ENGINEER'S RECOMMENDATION. (2 FOOT MAXIMUM)

1 HMA PAVEMENT - VEHICULAR
 SCALE: 1"=1'-0"



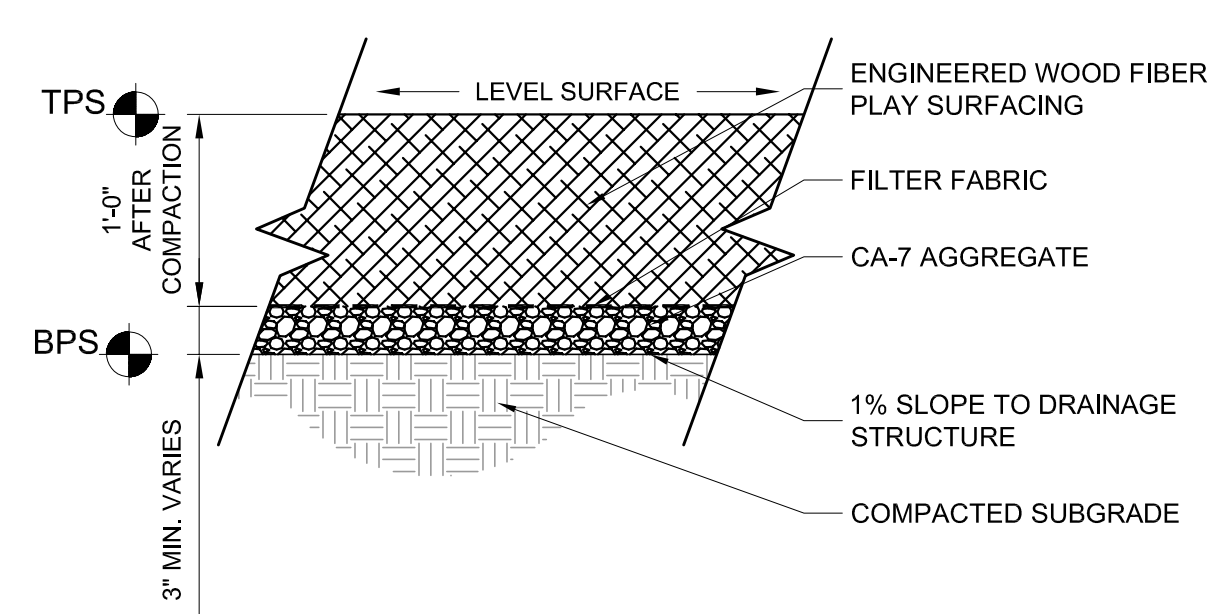
NOTES:
 1. ALL SIDEWALKS SHALL BE CONSTRUCTED WITH IDOT CLASS SI CONCRETE, NOT LESS THAN 3500 P.S.I. CONCRETE AT 14 DAYS.
 2. SIDEWALK THICKNESS CROSS DRIVEWAY SHALL BE A MINIMUM 8".
 3. REFER TO EXPANSION JOINT DETAIL.
 4. THE TRANSVERSE JOINTS SHALL EXTEND TO 1/4 THE DEPTH OF THE SIDEWALK, SHALL NOT BE MORE THAN 1/4" IN WIDTH, AND SHALL BE EDGED HAVING A 1/4 INCH RADIUS. NO SLAB SHALL BE LONGER THAN 6 FEET NOR LESS THAN 4 FEET ON ANY ONE SIDE.

2 CONCRETE PAVING
 SCALE: 1"=1'-0"

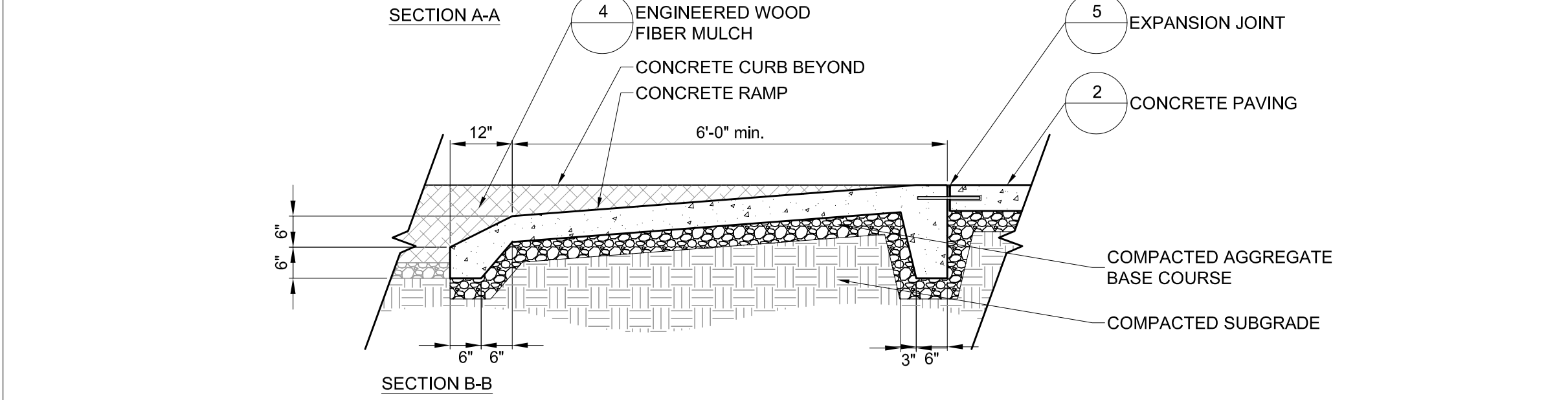
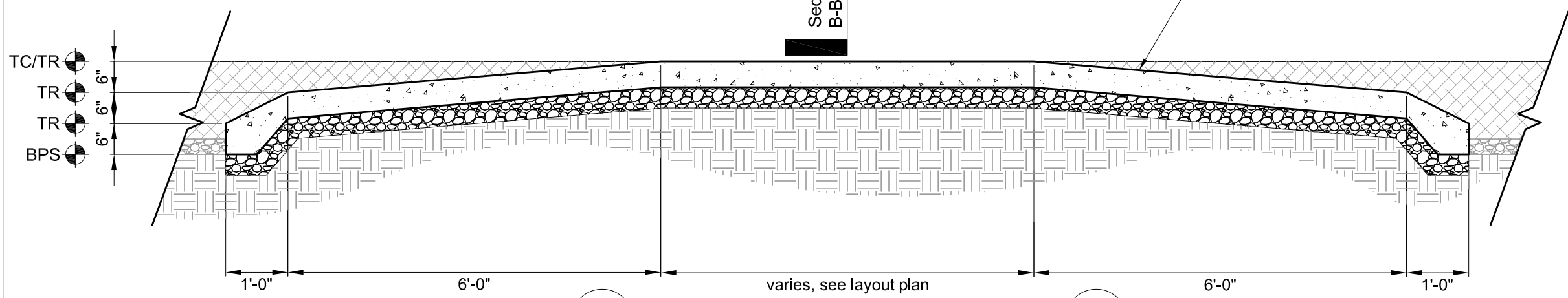
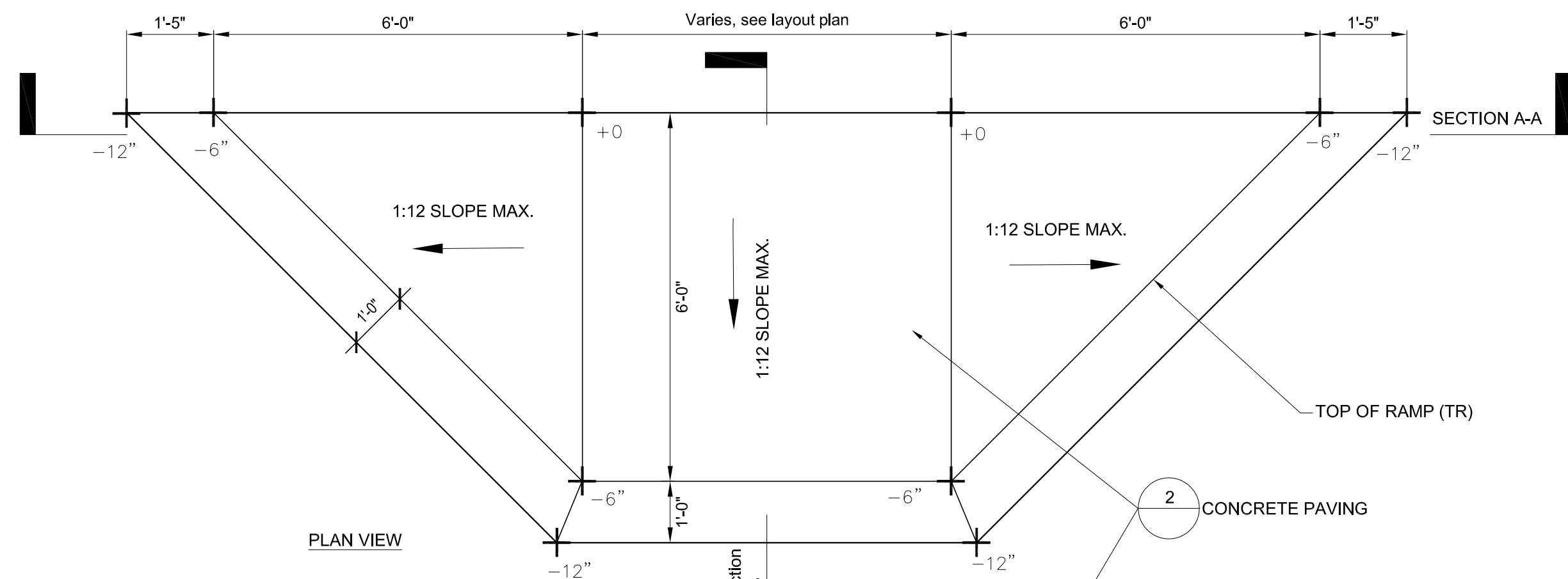


NOTE:
 REFER TO PLANS FOR CONCRETE JOINT PATTERN

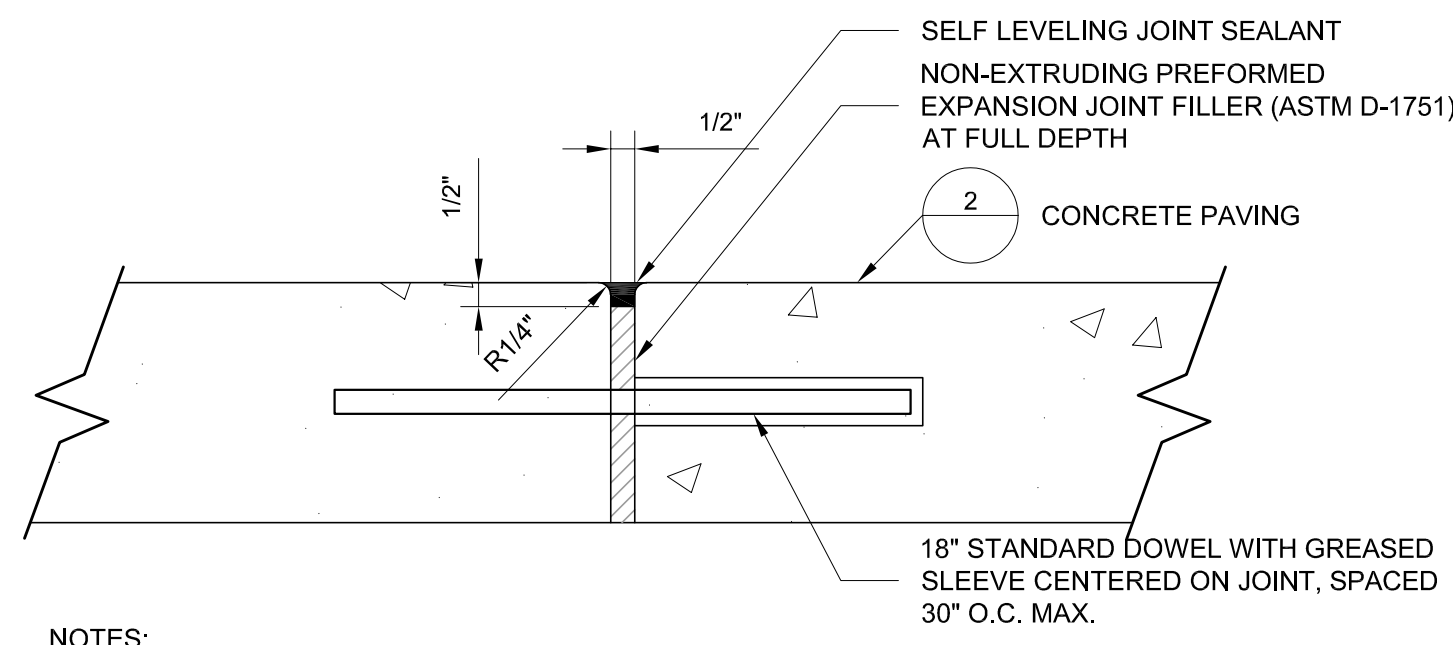
3 CONTROL JOINT
 SCALE: 3"=1'-0"



4 PLAY SURFACING - ENGINEERED WOOD FIBER MULCH
 SCALE: 1"=1'-0"

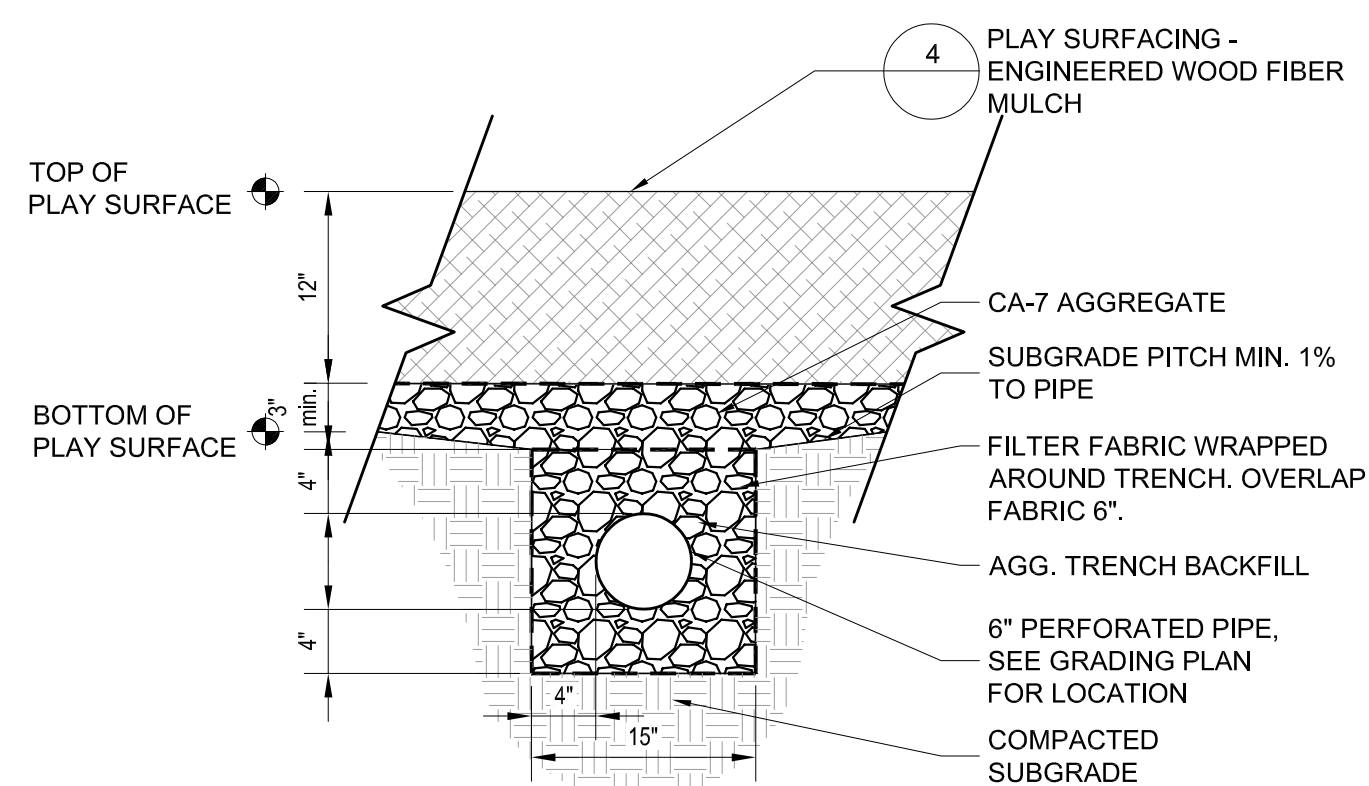


7 PLAYGROUND RAMP
 SCALE: 1/2"=1'-0"

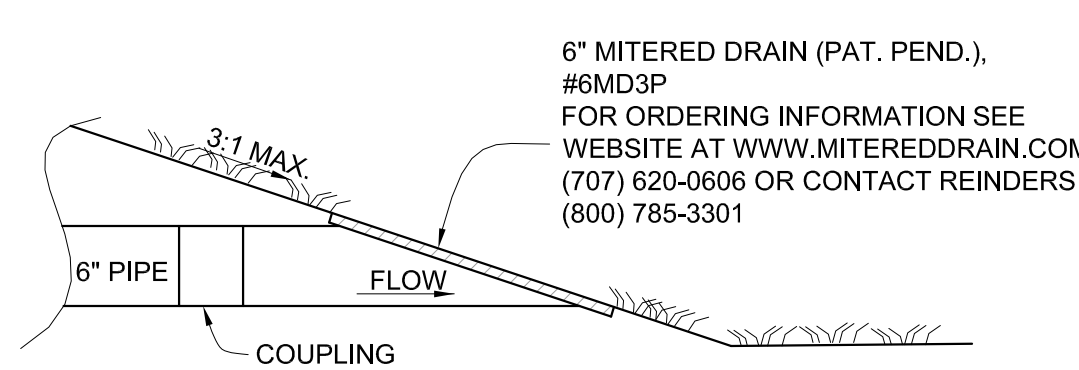


NOTES:
 1. PREFORMED FLEXIBLE FOAM EXPANSION JOINT FILLER NOT ACCEPTED.
 2. EACH EXPANSION JOINT SHALL HAVE (2) 3" DOWEL BARS, 18" LONG AND PROPERLY LUBRICATED, PLACED AT MID DEPTH.
 3. EXPANSION JOINTS 3/4" THICK SHALL BE WHERE PROPOSED CONCRETE MEETS EXISTING CONCRETE. AT 50 FT INTERVALS FOR HAND POURS AND 100 FT INTERVALS FOR SLIP OR MONOLITHIC POURS.
 4. EXPANSION JOINTS 3/4" THICK SHALL BE AT EVERY P.C. & P.T. OF CURVATURE, 5 FT EACH SIDE OF STRUCTURES, AND AT END OF POURS.
 5. PREFORMED EXPANSION JOINT 1/2" THICK SHALL BE PLACED BETWEEN THE SIDEWALK AND ALL STRUCTURES.
 6. EXPANSION JOINTS SHALL ALSO BE PLACED WHERE THE SIDEWALK ABUTS EXISTING SIDEWALKS AND WHERE THE SIDEWALK ABUTS A CURB.
 7. EXPANSION JOINTS SHALL ALSO BE PLACED WHERE THE CURB ABUTS EXISTING CURB.

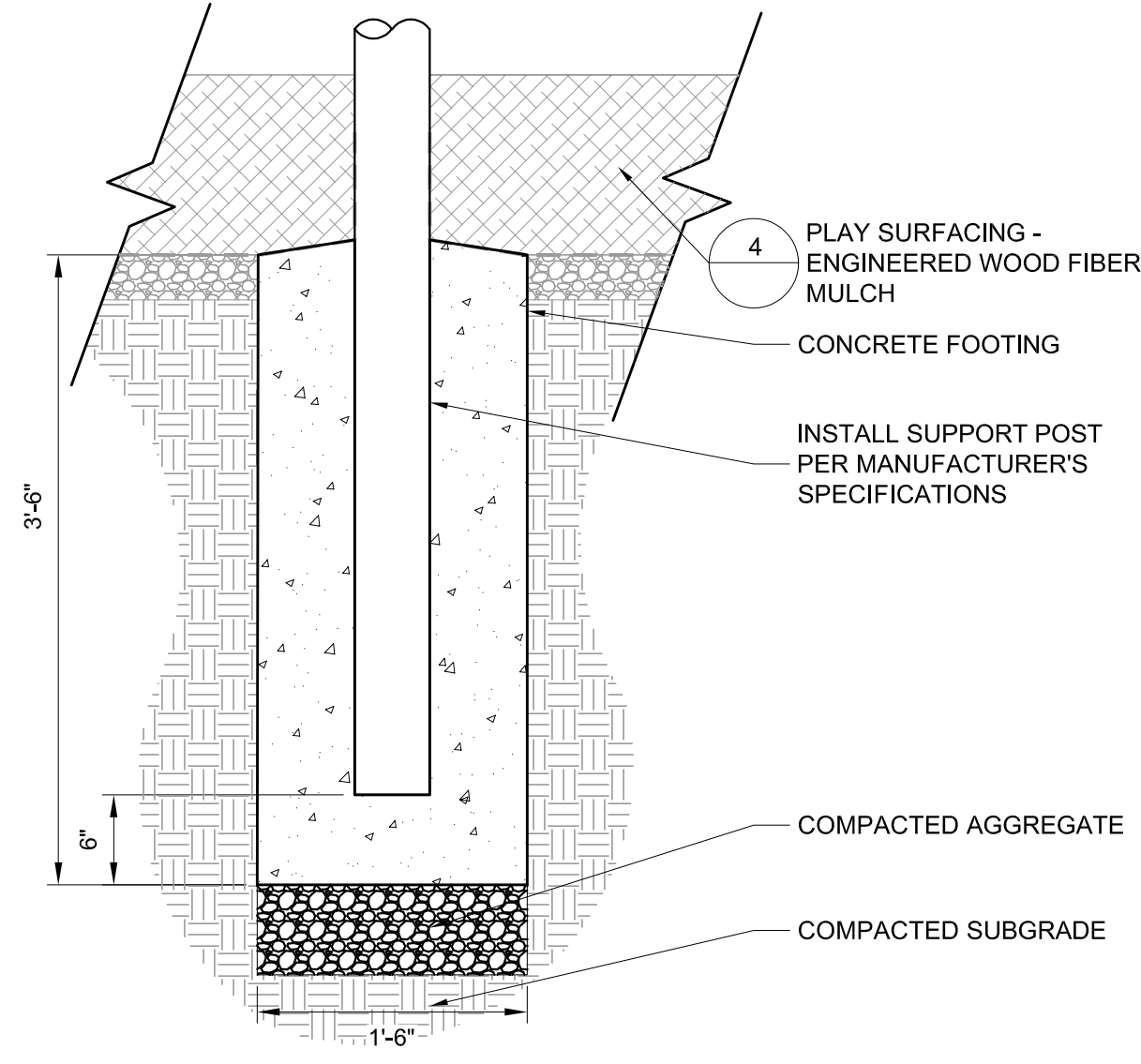
5 EXPANSION JOINT
 SCALE: 3"=1'-0"



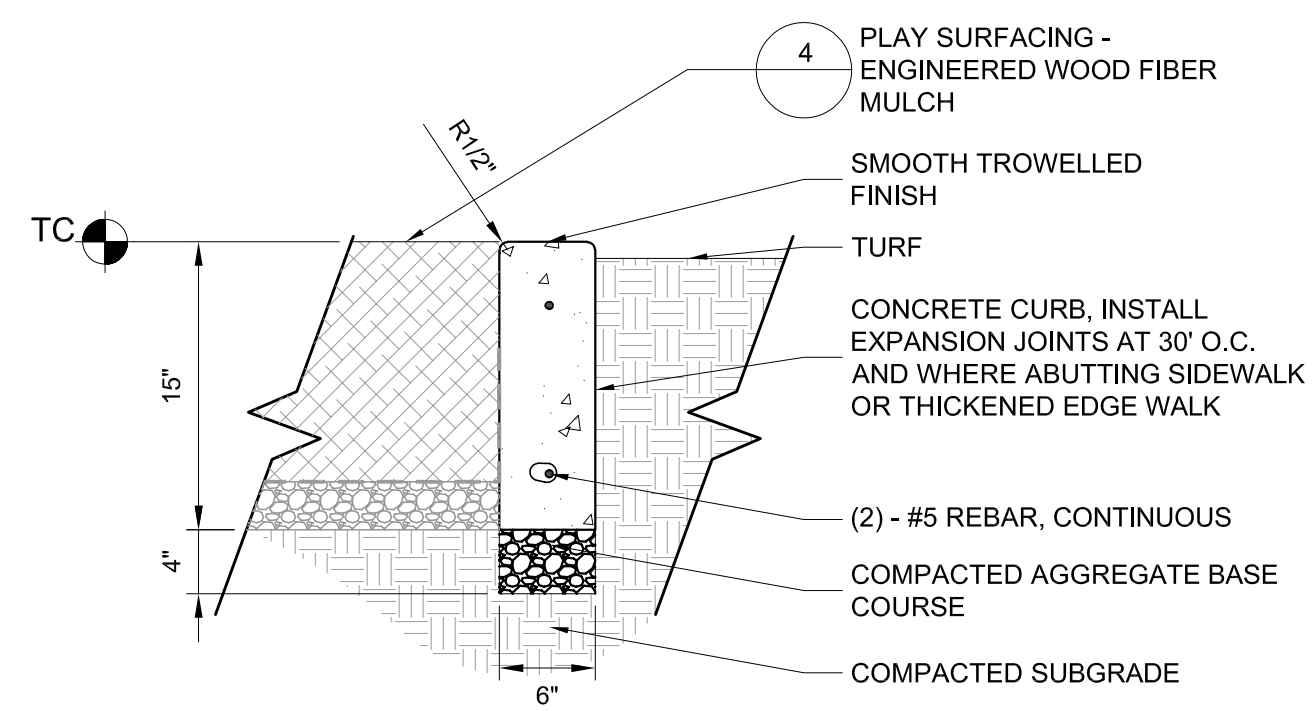
8 UNDERDRAIN - PLAYGROUND
 SCALE: 1"=1'-0"



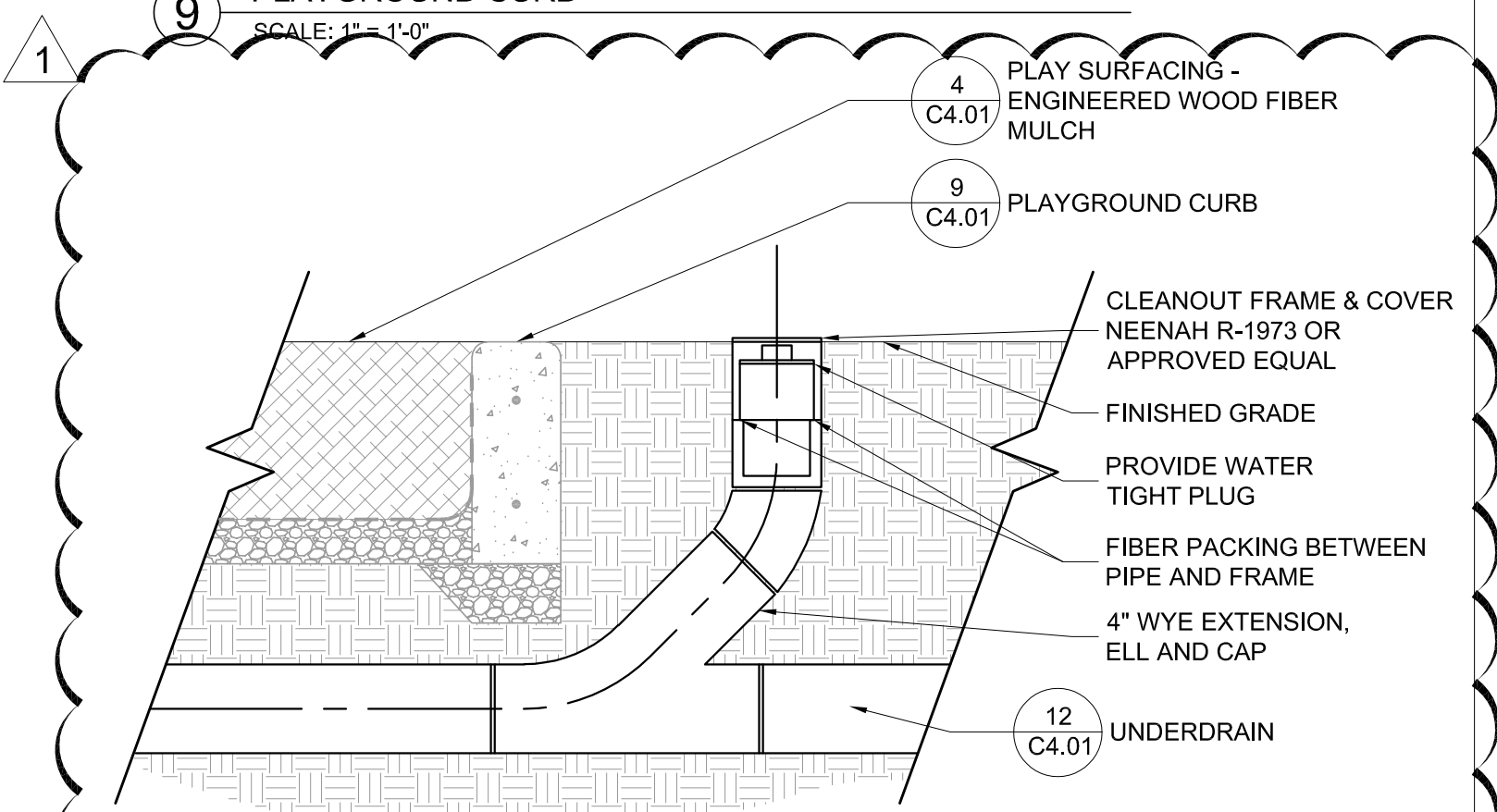
10 MITER DRAIN
 NTS



6 PLAY STRUCTURE FOOTING
 SCALE: 1"=1'-0"



9 PLAYGROUND CURB
 SCALE: 1"=1'-0"



11 CLEANOUT
 SCALE: 1"=1'-0"



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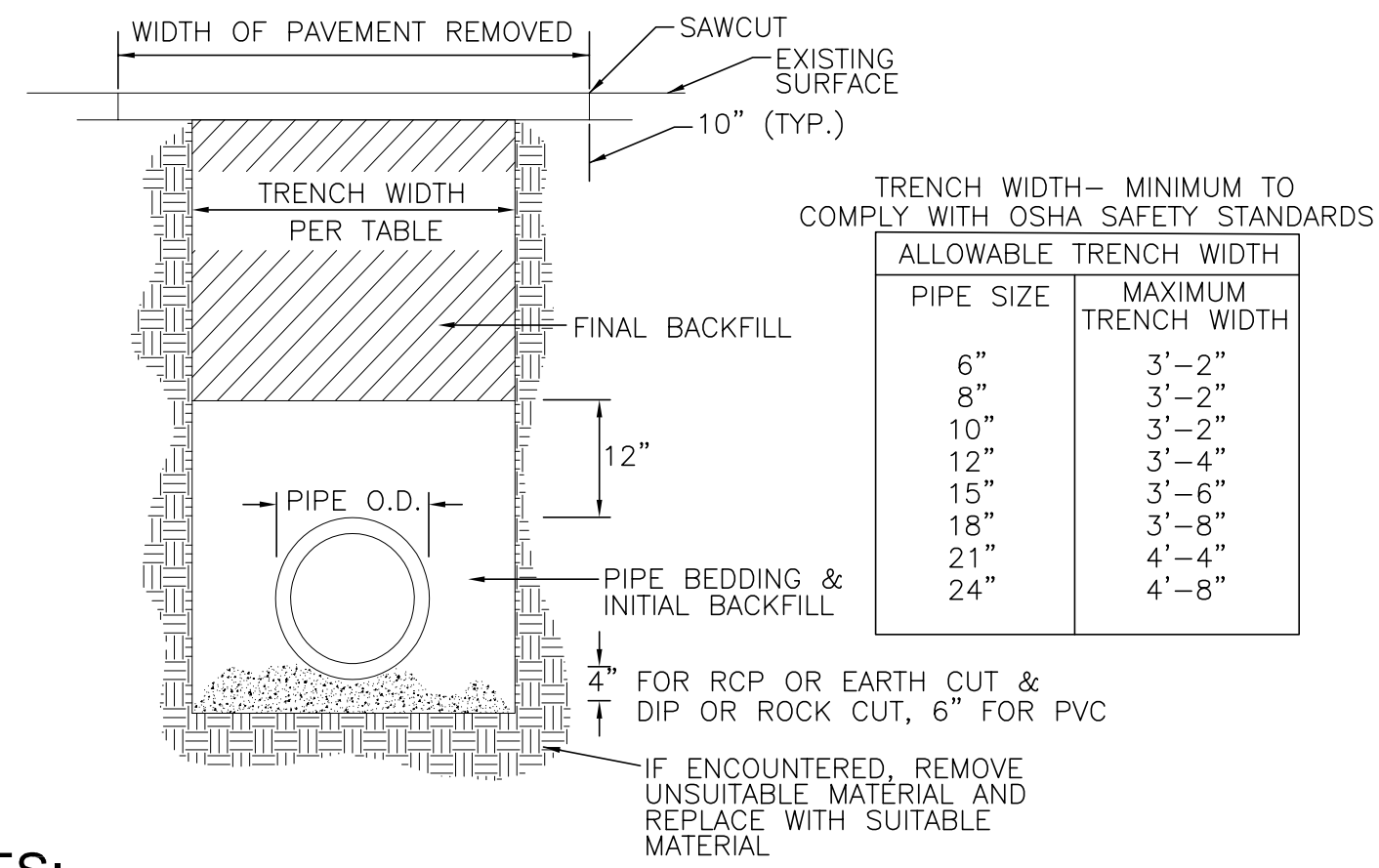
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1 PIPE BEDDING & BACKFILL - STORM SEWER
 SCALE: NTS



TRENCH WIDTH - MINIMUM TO COMPLY WITH OSHA SAFETY STANDARDS PER TABLE

ALLOWABLE PIPE SIZE	MAXIMUM TRENCH WIDTH
6"	3'-2"
8"	3'-2"
10"	3'-2"
12"	3'-4"
15"	3'-6"
18"	3'-8"
21"	4'-4"
24"	4'-8"

NOTES:

- TRENCH WIDTH - MINIMUM TO COMPLY WITH OSHA SAFETY STANDARDS.
- REINFORCING OF RESTORED PAVEMENT MUST MATCH EXISTING.
- RESTORATION TO ORIGINAL SURFACE REQUIRED. NO CONCRETE PATCHES ON ASPHALT ROADS
- STREETS MUST REMAIN OPEN TO TRAFFIC WORK ON ONLY ONE HALF OF STREET ALLOWED AT A TIME. CONTRACTORS SHALL ERECT AND MAINTAIN SUFFICIENT AND SUITABLE SIGNS AND BARRICADES DURING AND AFTER CONSTRUCTION.
- STREETS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION WITHIN 72 HOURS FROM THE TIME THE WORK COMMENCED. STREET OPENINGS SHALL BE BACKFILLED WITH APPROVED GRANULAR MATERIAL AND A TEMPORARY PAVEMENT SURFACE OF COMPACTED COLD ASPHALT MATERIAL SHALL BE INSTALLED WITHIN 24 HOURS FROM THE TIME THE WORK COMMENCED.
- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE MUNICIPALITY BEFORE BACKFILLING AND RESTORATION WORK ARE TO COMMENCE.

PIPE BEDDING & INITIAL BACKFILL
 FOR PVC AND HDPE, CRUSHED STONE (IDOT CA-11 OR CA-13) TO 1 FOOT OVER PIPE. FOR RCP & DIP, CA-6 TO SPRING LINE. PLACE IN MAXIMUM 6" LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY PER AASHTO T-99.

FINAL BACKFILL
 IN PAVEMENT AREAS AND WHERE TRENCH FALLS WITHIN A 1 TO 1 SLOPE EXTENDED FROM THE EDGE OF THE PAVEMENT, MATERIAL SHALL BE TRENCH-BACKFILL (CA-6 PER I.D.O.T. SPECS.) COMPACTED TO 95% STANDARD PROCTOR DENSITY PER AASHTO T-99.

IN AREAS WHERE GRASS IS REMOVED AND PARKWAY RESTORATION IS REQUIRED LANDSCAPE FABRIC SHALL BE PLACED BETWEEN THE BACKFILLED MATERIAL AND THE REQUIRED TOPSOIL AS DIRECTED BY THE MUNICIPAL DIRECTOR OF PUBLIC WORKS.

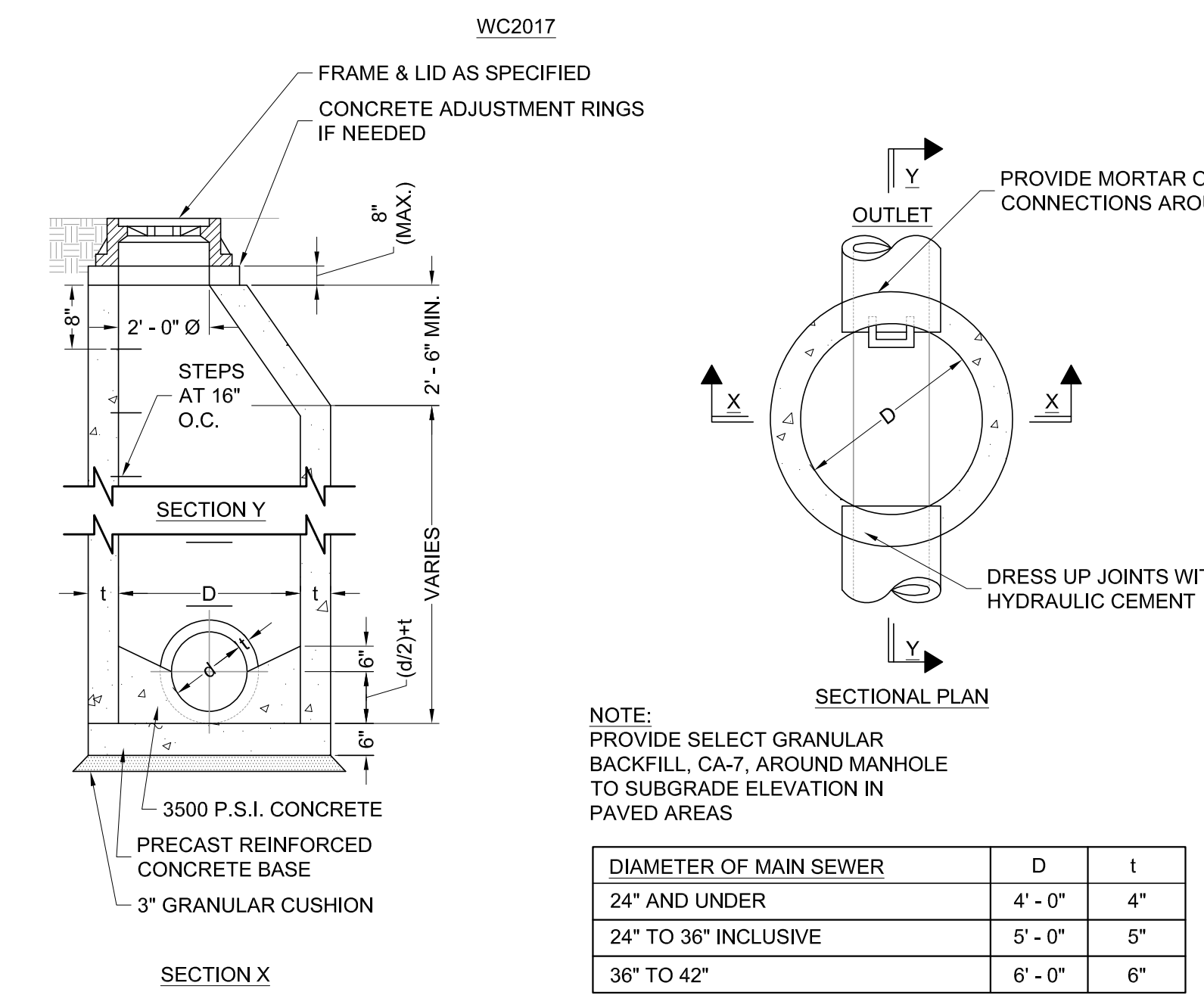
IN LANDSCAPE AREAS MATERIAL SHALL BE SELECT, EXCAVATED MATERIAL, FREE OF ROCKS AND DEBRIS COMPACTED TO 85% STANDARD PROCTOR DENSITY PER AASHTO T-99.

UTILITY CROSSINGS

AT UTILITY CROSSINGS, INSTALL TRENCH BACKFILL, AS ABOVE, FROM THE PIPE BEDDING TO 1 FOOT OVER THE HIGHER PIPE. SUCH A GRANULAR CRADLE SHALL BE CONSTRUCTED REGARDLESS OF WHETHER THE CROSSING OCCURS IN PAVED OR LANDSCAPED AREAS.

WHERE UTILITY CROSSINGS INCLUDE A WATER MAIN, USE CLASS IV COMPACTED SELECT EXCAVATED MATERIAL BETWEEN PIPES AS REQUIRED BY THE STANDARD SPECIFICATIONS FOR SEWER & WATER MAIN CONSTRUCTION IN ILLINOIS, STANDARD DRAWINGS 19 THROUGH 24.

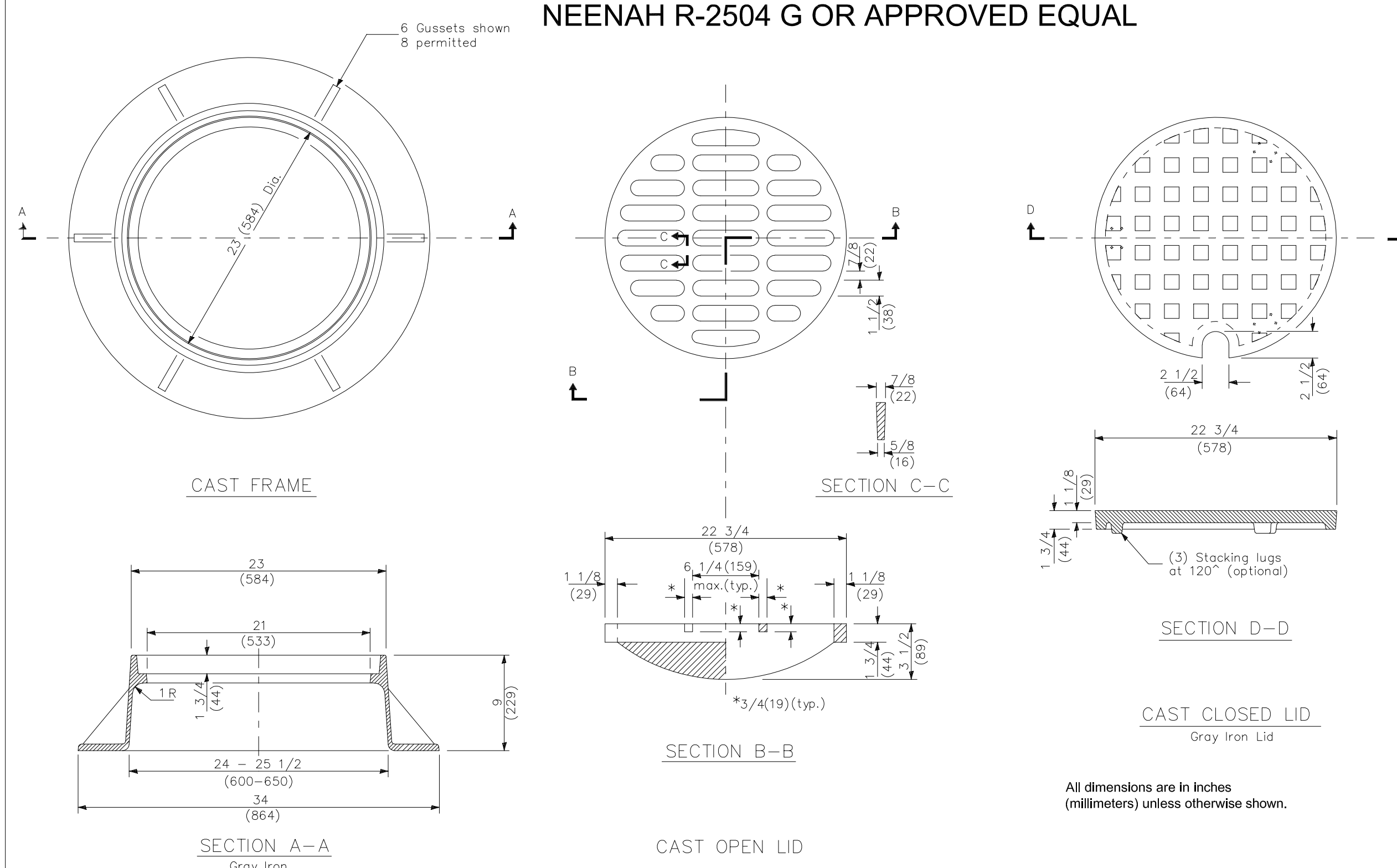
3 STORM SEWER MANHOLE, TYPE A
 SCALE: NTS



NOTE:
 PROVIDE SELECT GRANULAR BACKFILL, CA-7, AROUND MANHOLE TO SUBGRADE ELEVATION IN PAVED AREAS

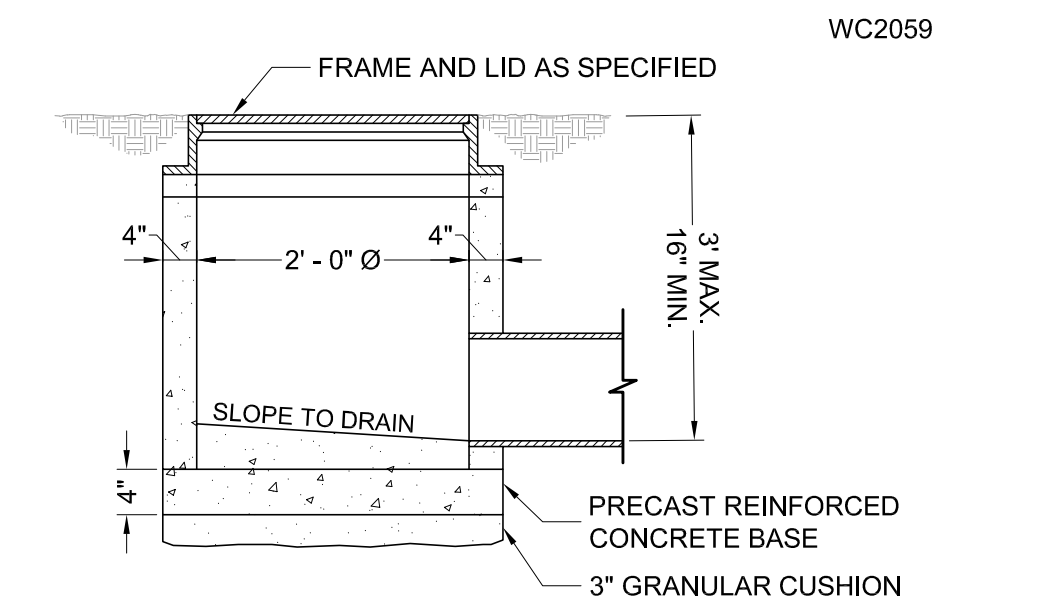
DIAMETER OF MAIN SEWER	D	t
24" AND UNDER	4' - 0"	4"
24" TO 36" INCLUSIVE	5' - 0"	5"
36" TO 42"	6' - 0"	6"

2 FRAME AND LIDS TYPE 1
 SCALE: NTS



All dimensions are in inches (millimeters) unless otherwise shown.

4 INLET, TYPE A
 SCALE: NTS



NOTES:

- INLETS SHALL BE OF PRECAST REINFORCED CONCRETE SECTIONS.
- PIPE OPENINGS, AS INDICATED ON THE PLANS, SHALL BE CAST INTO THE WALL SECTIONS.
- ALL INLETS SHALL BE CONSTRUCTED WITH A PRECAST REINFORCED CONCRETE BASE.
- ALL JOINTS BETWEEN PRECAST RISER, TOP SLAB SECTIONS, ADJUSTMENT RINGS AND CASTINGS SHALL BE SEALED WITH A BITUMASTIC MATERIAL.
- MORTAR SHALL NOT BE USED TO DRESS UP ADJUSTING RINGS.
- STEPS SHALL BE EMBEDDED INTO THE WALL A MINIMUM OF 4 INCHES AND SHALL NOT BE EXTENDED ON THE OUTSIDE.
- FRAME AND LID CASTINGS SHALL BE AS SPECIFIED ON THE PLANS. THE WORD "STORM" SHALL BE CAST IN THE LID.
- THE CONTRACT UNIT PRICE FOR MANHOLES SHALL INCLUDE THE FRAME AND LID, STEPS AND THE GRANULAR CUSHION.
- WHERE A FLAT TOP IS REQUIRED, IT SHALL BE PRECAST AND CONFORM TO IDOT STANDARDS.
- WHERE A FLAT TOP IS REQUIRED, IT SHALL BE PRECAST AND CONFORM TO IDOT STANDARDS.



Wight

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REV	DESCRIPTION	DATE
ADDENDUM 1		02-27-23
ISSUED FOR PERMIT		01/09/22

**INDIAN TRAIL
 ELEMENTARY SCHOOL
 PLAYGROUND**

6235 Stonewall Avenue
 Downers Grove, IL 60516

DETAILS

Project Number: 200032
 Scale:
 Drawn By:
 DE
 Sheet:

C4.02

GENERAL

- EXISTING SITE TOPOGRAPHY, UTILITIES, AND HORIZONTAL CONTROL SHOWN ON THE DRAWINGS WERE FIELD MEASURED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. (CEI), DATED 01/11/2023. ALL HORIZONTAL AND UTILITY LOCATIONS ARE BASED ON BEST AVAILABLE INFORMATION. TRADE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITY LOCATIONS, INVERTS, RIMS, PIPE SIZE, MATERIAL TYPE, ETC. PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- ELEVATIONS ARE BASED ON ILLINOIS STATE PLANE COORDINATE SYSTEM NAVD 88 DATUM.
- THE TRADE CONTRACTOR SHALL SUBSCRIBE TO ALL GOVERNING REGULATIONS AND SHALL ABIDE BY THE REQUIREMENTS OF ALL APPLICABLE PERMITS.
- ALL APPLICABLE PROVISIONS OF THE CURRENT OCCUPATIONAL HEALTH AND SAFETY ACT ARE HEREIN INCORPORATED BY REFERENCE.
- NO BURNING OR INCINERATION OF RUBBISH IS PERMITTED ON THE SITE.
- STREET AND DRIVEWAY PAVEMENT SHALL BE PROTECTED FROM DAMAGE. ANY DAMAGE SHALL BE REPAIRED PER THE VILLAGE OF DOWNERS GROVE REQUIREMENTS. MATERIALS AND WORKMANSHIP OF REPAIRS SHALL CONFORM TO THE "DOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS (LATEST EDITION)", THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS (LATEST EDITION) PREPARED BY ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT), HEREIN AFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"; AND ILLINOIS ENVIRONMENTAL PROTECTION AGENCY ILLINOIS URBAN MANUAL, LATEST EDITION, AND "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", HEREIN AFTER REFERRED TO AS "ISPE STANDARDS" SHALL GOVERN THE CONSTRUCTION OF THESE IMPROVEMENTS EXCEPT AS MODIFIED BY THE CONTRACT DOCUMENTS.
- THE "DEVELOPMENT REGULATIONS", LATEST EDITION, AS ADOPTED BY THE VILLAGE OF DOWNERS GROVE, ILLINOIS, HEREIN AFTER REFERRED TO AS THE "DEVELOPMENT REGULATIONS" INCLUDING ALL VILLAGE STANDARD DETAILS AND SPECIFICATIONS; THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) AND THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS (LATEST EDITION) PREPARED BY ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT), HEREIN AFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"; AND ILLINOIS ENVIRONMENTAL PROTECTION AGENCY ILLINOIS URBAN MANUAL, LATEST EDITION, AND "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", HEREIN AFTER REFERRED TO AS "ISPE STANDARDS" SHALL GOVERN THE CONSTRUCTION OF THESE IMPROVEMENTS EXCEPT AS MODIFIED BY THE CONTRACT DOCUMENTS.
- ALL CONNECTIONS TO EXISTING UTILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REGULATIONS OF THE VILLAGE OF DOWNERS GROVE, ILLINOIS AND THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, HEREIN AFTER REFERRED TO AS ISPE STANDARDS.
- ALL FACILITIES OR LANDSCAPING DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION BY THE RESPONSIBLE TRADE CONTRACTOR.
- PROPOSED ELEVATIONS INDICATE FINISHED GRADES. FOR SUBGRADE ELEVATIONS, ALLOW FOR THICKNESS OF PROPOSED PAVING OR TOPSOIL THICKNESS.
- THE TRADE CONTRACTOR SHALL NOTIFY THE VILLAGE OF DOWNERS GROVE, ILLINOIS 48 HOURS BEFORE THE COMMENCEMENT OF CONSTRUCTION.
- SHOULD THE TRADE CONTRACTOR ENCOUNTER FIELD DRAINAGE TILE NOT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY CONTACT ENGINEER AND THE VILLAGE OF DOWNERS GROVE FOR INSTRUCTIONS. SHOULD THE ENGINEER OR VILLAGE OF DOWNERS GROVE INSTRUCT THAT DAMAGED FIELD TILES BE RESTORED TO THEIR ORIGINAL CONDITION, THAT REPAIR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THE LOCATION OF FOUND DRAINAGE TILE SHALL BE INDICATED ON THE RECORD DRAWING.
- ALL TRENCHES SHOULD FOLLOW THE VILLAGE OF DOWNERS GROVE STANDARD DETAILS INCLUDED IN THE CIVIL DETAILS. TRENCHES ARE TO BE BACKFILLED WITH TRENCH BACKFILL AND COMPACTED TO 95% UNIFIED PROCTOR DENSITY, AS REQUIRED BY THE VILLAGE OF DOWNERS GROVE AND THE ISPE STANDARDS.
- TRADE CONTRACTOR IS RESPONSIBLE FOR CALLING J.U.L.I.E. AT 1-800-892-0123 OR 811 AND NOTIFYING THE CONSTRUCTION MANAGER AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING UTILITY MARKINGS THROUGHOUT CONSTRUCTION.
- ALL DIMENSIONS, CURB RADII AND ELEVATIONS REFER TO THE BACK OF CURB WHERE CURB IS SHOWN. COORDINATES ARE TO BACK OF CURB, CENTER OF STRUCTURES OR AS SHOWN.
- WHERE PAVEMENT, CURB OR SIDEWALK REMOVAL IS REQUIRED, THE TRADE CONTRACTOR SHALL SAW CUT THE BOUNDARIES OF THE AREA TO BE REMOVED PRIOR TO DEMOLITION.
- TRADE CONTRACTOR IS RESPONSIBLE FOR LAYOUT, LINE AND GRADE FOR ITEMS INCLUDED IN THE CONTRACT SCOPE OF WORK. CONTRACTOR TO USE CAD FILES AS PROVIDED BY THE ENGINEER FOR GEOMETRIC LAYOUT.
- TRADE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE PUBLIC STREET CLEAN OF DEBRIS.
- "BAND SEAL" JOINTS WITH STAINLESS STEEL STRAPS AND BOLTS SHALL BE USED WHEN CONNECTING DISSIMILAR MATERIALS.
- ALL EXISTING UTILITY STRUCTURES SHALL BE ADJUSTED AS NECESSARY TO MATCH FINISH GRADE. ALL EXISTING UTILITY STRUCTURES REQUIRING ADJUSTMENT OR RECONSTRUCTION SHALL BE COMPLETED BY THE CONTRACTOR TO THE SATISFACTION OF THE UTILITY OWNER. ADJUSTMENTS AND/OR RECONSTRUCTIONS NOT CALLED FOR ON THE PLANS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. NO MORE THAN A TOTAL OF 12 INCHES OF ADJUSTING RINGS AND/OR 2 ADJUSTING RINGS SHALL BE ALLOWED.
- IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT IN LOCATION AND/OR ELEVATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND CONSTRUCTION MANAGER SO THAT THE CONFLICT MAY BE RESOLVED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL AS-BUILT SURVEYS. ALL AS-BUILT SURVEYS SHALL BE COMPLETED BY A PROFESSIONAL LAND SURVEYOR AND BE SIGNED AND SEALED. THE GRADING AND UTILITY CONSTRUCTION PLANS SHOULD BE USED AS THE BACKGROUND FOR ALL AS-BUILTS. THE CONTRACTOR SHALL SUBMIT TWO SETS OF THE "AS-BUILT" FINAL ENGINEERING DRAWINGS, RECORD DRAWINGS AND STORMWATER MANAGEMENT CALCULATIONS UPON COMPLETION OF IMPROVEMENTS AND INCLUDE ELECTRONIC CAD FILES. THE RECORD DRAWINGS SHOULD AT LEAST INCLUDE THE FOLLOWING INFORMATION: AS-BUILT DETENTION CONTOURS, ELEVATIONS (INCLUDING DETENTION BASIN TOP OF BERM AND OVERFLOW WEIR GRADES) AND VOLUME (VERIFIED, SIGNED, & SEALED BY A PROFESSIONAL ENGINEER (PE) OR PROFESSIONAL LAND SURVEYOR (PLS)); ELEVATION, AND LOCATION (TIES TO TWO POINTS) OF ALL NEW STRUCTURES INCLUDING FIRE HYDRANTS, VALVE BOXES AND VAULTS, LINES/POST SLEEVES, WATER SERVICE CORPORATION STOPS, WATER MAIN FITTINGS/RENDS, MANHOLES, SANITARY SERVICE WYES (MEASURED FROM DOWNSTREAM MANHOLE), ALL STORM/SANITARY SEWER STRUCTURES (INCLUDING INVERTS AND PIPE SIZES), ALL PIPES (LOCATIONS, SLOPES, LENGTHS, ETC.), OUTLET CONTROL STRUCTURES (INCLUDING CONTROL SIZES AND ELEVATIONS PLUS TOP OF WALL) AND ABANDONED WATER OR SANITARY SERVICE LINES. DETAILED TOPOGRAPHIC SURVEY OF ALL HIGH POINTS, LOW POINTS, CHANGE OF SLOPE INCLUDING GUTTER GRADES, TOP OF CURB GRADES, PAVEMENT GRADES, SIDEWALK GRADES, RAMP GRADES, ETC. TO VERIFY POSITIVE DRAINAGE. ALL ELEVATIONS SHOULD BE REFERENCED TO THE SAME BENCHMARK DATUM AS THE ORIGINAL DESIGN PLANS. HORIZONTAL TIES SHALL BE REFERENCED TO LOT LINES, BACK OF CURB, OR PROPERTY CORNERS. WITHIN DETENTION/IMP AREAS: FOR VERIFICATION OF DETENTION VOLUME AND SUBBASE GRADES, PRIOR TO BACK FILLING WITH CA-7, THE CONTRACTOR SHALL PROVIDE ENGINEER WITH A CERTIFIED TOPSOIL SURVEY OF AS-BUILT SUBBASE GRADES FOR ENGINEER APPROVAL AND ALSO A COPY OF RECEIPT OF THE CA-7 AGGREGATE.
- EMERGENCY VEHICLE ACCESS IS TO BE MAINTAINED THROUGHOUT DURATION OF PROJECT. VEHICLE ACCESS IS TO BE CLEARLY MARKED. ANY ALTERATION OF EMERGENCY VEHICLE ROUTE OR ACCESS IS TO BE APPROVED BY THE VILLAGE OF DOWNERS GROVE, ILLINOIS.

TRAFFIC CONTROL

- THE TRADE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL (IDOT STANDARD 701006) AT ALL TIMES WHEN ANY VEHICLES, EQUIPMENT, WORKER, OR ACTIVITY ENROUCH ADJACENT ROADWAYS FROM 15 FEET TO THE EDGE OF PAVEMENT. THE TRADE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL (IDOT STANDARD 701501) WHEN ACTIVITY ENROACHES THE EDGE OF PAVEMENT FOR THESE ROADS.
- IF THE OPERATION IS 15 FEET OR MORE, OFF THE EDGE OF PAVEMENT, NO SIGNING WILL BE REQUIRED UNLESS TWO OR MORE VEHICLES CROSS THE 15 FOOT CLEAR ZONE IN ONE HOUR.
- WHEN WORKING WITHIN 2 FEET OF THE PAVEMENT EDGE, CONES, DRUMS, OR BARRICADES SHALL BE PLACED ACCORDING TO THE STANDARD 701101 REQUIREMENTS.
- CONTRACTOR MUST FOLLOW ALL VILLAGE OF DOWNERS GROVE AND DUPAGE COUNTY DEPARTMENT OF TRANSPORTATION REQUIREMENTS FOR TRAFFIC CONTROL.

HOT MIX ASPHALT PAVING

- SUBGRADE PREPARATION, BASE COURSE PLACEMENT, AND HMA PAVEMENT SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS AND RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
- DEPRESSIONS OF FINAL HMA SURFACES SHALL NOT EXCEED 1/4 INCH FROM PROPOSED CORRECTIONS TO NON-COMPLIANT AREAS ORDERED BY THE CONSTRUCTION MANAGER SHALL BE MADE AT NO ADDITIONAL CHARGE.
- ALL SIGNAGE AND STRIPING SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.

STORM SEWER

- CONTRACTOR TO FOLLOW ALL VILLAGE OF DOWNERS GROVE REQUIREMENTS.
- ALL STORM STRUCTURES AND SEWERS ARE TO BE CLEANED PRIOR TO FINAL ACCEPTANCE. THE TRADE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING SEDIMENT FROM THE STORM SEWER STRUCTURES AND PIPES DURING CONSTRUCTION AND UNTIL 90% OF VEGETATION IS ESTABLISHED.
- MANHOLES, CATCH BASINS, INLETS, BEDDINGS AND TRENCH BACKFILL SHALL CONFORM TO THE CONSTRUCTION DETAILS, STANDARD SPECIFICATIONS AND ISPE SPECIFICATIONS.
- ALL STORM SEWER SHOULD BE PVC SDR 26 OR STRONGER.

EARTHWORK

- ALL AREAS SHALL BE CLEARED AND TILLED IN PREPARATION TO RECEIVE SEED. REFER TO SPECIFICATIONS FOR REQUIREMENTS.
- THE TRADE CONTRACTOR SHALL APPLY FERTILIZER AND SEED TO ALL DISTURBED AREAS, AS NOTED ON THE CONSTRUCTION DRAWINGS. TRADE CONTRACTOR SHALL APPLY FERTILIZER AND SEED USING THE HYDROSEED METHOD. FERTILIZER AND SEED QUANTITIES AND SEEDING PROCEDURES SHALL CONFORM TO THE SPECIFICATIONS.
- THE TRADE CONTRACTOR WILL INSPECT THE SEEDED AREAS AFTER SEEDING, TO RECEIVE FINAL ACCEPTANCE. SEEDED AREAS MUST SUPPORT DENSE, THRIVING GRASSES SUFFICIENT TO PROTECT THE SOIL FROM EROSION IN A MODERATE RAINFALL AREAS THAT, IN THE OPINION OF THE OWNER & ENGINEER, DO NOT MEET THIS REQUIREMENT, MUST BE IMMEDIATELY RESEED, REFER TO SPECIFICATIONS FOR ALL REQUIREMENTS.
- TOPSOIL FOR RESTORATION AREAS SHALL COMPLY WITH THE STANDARD SPECIFICATIONS. TOPSOIL MAY BE SALVAGED FROM THE SITE AND STOCKPILED FOR REUSE WHEN ALL WORK IS COMPLETED. ADDITIONAL TOPSOIL REQUIRED TO COMPLETE THE JOB SHALL BE OBTAINED FROM OFF-SITE SOURCES AT THE TRADE CONTRACTORS EXPENSE. SALVAGED TOPSOIL SHALL BE SUBJECT TO THE ENGINEERS APPROVAL AND WILL BE REJECTED IF NOT CLEAN, UNCONTAMINATED MATERIAL.
- THE CROWNS AND ROOT OF TREES WHICH ARE TO BE PRESERVED IN THE PROJECT AREA, BUT WHICH COULD BE NEGATIVELY AFFECTED DURING THE CONSTRUCTION PROCESS, SHALL BE PRUNED BY A QUALIFIED ARBORIST ACCORDING TO THE TREE PRUNING STANDARDS SET BY ANSI Z100 CODE.
- POROUS GRANULAR EMBANKMENT, SUBGRADE

THIS WORK CONSISTS OF FURNISHING, PLACING, AND COMPACTING POROUS GRANULAR MATERIAL AS DIRECTED BY THE ENGINEER. POROUS GRANULAR EMBANKMENT SHALL CONSIST OF CA-1 AGGREGATE CAPPED WITH A 3 INCHES NOMINAL THICKNESS TOP LIFT OF CA-4 CAPPING AGGREGATE. THE MATERIAL SHALL BE USED AS A BRIDGING LAYER OVER SOFT, PUMPY, AND LOOSE SOIL AND SHALL CONFORM.

THE POROUS GRANULAR MATERIAL SHALL BE PLACED IN ONE LIFT WHEN THE TOTAL THICKNESS TO BE PLACED IS 2 FEET OR LESS OR AS DIRECTED BY THE ENGINEER. EACH LIFT OF THE POROUS GRANULAR MATERIAL SHALL BE ROLLED WITH A VIBRATORY ROLLER MEETING THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS TO OBTAIN THE DESIRED KEYING OR INTERLOCK AND COMPACTION. THE ENGINEER SHALL VERIFY THAT ADEQUATE KEYING HAS BEEN OBTAINED.

CONSTRUCTION EQUIPMENT NOT NECESSARY FOR THE COMPLETION OF THE REPLACEMENT MATERIAL WILL NOT BE ALLOWED ON THE UNDERCUT AREAS UNTIL COMPLETION OF THE RECOMMENDED THICKNESS OF THE POROUS GRANULAR EMBANKMENT SUBGRADE.

FULL DEPTH SUBGRADE UNDERCUT SHOULD OCCUR AT LIMITS DETERMINED BY THE ENGINEER. A TRANSITION SLOPE TO THE FULL DEPTH OF UNDERCUT SHALL BE MADE OUTSIDE OF THE UNDERCUT LIMITS AT A TAPER OF 1 FOOT LONGITUDINAL PER 1 INCH DEPTH BELOW THE PROPOSED SUBGRADE OR BOTTOM OF THE PROPOSED AGGREGATE SUBGRADE WHEN INCLUDED IN THE CONTRACT.

THIS WORK WILL BE MEASURED FOR PAYMENT IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, (WHEN SPECIFIED ON THE CONTRACT, THE THEORETICAL ELEVATION OF THE BOTTOM OF THE AGGREGATE SUBGRADE SHALL BE USED TO DETERMINE THE UPPER LIMIT OF POROUS GRANULAR EMBANKMENT, SUBGRADE. THE VOLUME WILL BE COMPUTED BY THE METHOD OF AVERAGE END AREAS.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR POROUS GRANULAR EMBANKMENT, SUBGRADE WHICH PRICE SHALL INCLUDE THE CAPPING AGGREGATE, WHEN REQUIRED.

THE POROUS GRANULAR EMBANKMENT, SUBGRADE SHALL BE USED AS FIELD CONDITIONS WARRANT AT THE TIME OF CONSTRUCTION.

SPECIAL EXCAVATION SHALL INCLUDE THE SATISFACTORY REMOVAL AND OFF-SITE DISPOSAL OF ALL UNSUITABLE MATERIAL BELOW THE SUBGRADE ELEVATION.

WORK UNDER THIS ITEM SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS EXCEPT AS HEREIN MODIFIED.

AFTER EXCAVATING TO THE REQUIRED SUBGRADE LEVEL, THE ENGINEER & GEOTECH ENGINEER SHALL INSPECT THE SUBGRADE. PRIOR TO PLACING ANY PAVEMENT SECTION MATERIAL THE EXCAVATION LEVEL OR SUBGRADE LEVEL SHALL BE COMPACTED AND, WHERE POSSIBLE, PROOF ROLLED WITH A 40,000 LB TANDEM AXLE TRUCK BY MAKING AT LEAST 4 PASSES. THE COMPACTING AND PROOF ROLLING WILL DETECT SOFT OR UNSTABLE POCKETS OF MATERIAL WHICH SHALL BE REMOVED AND REPLACED AS HEREIN SPECIFIED. THE COMPACTING AND PROOF ROLLING SHALL BE INCIDENTAL TO THE WORK AND NO ADDITIONAL COMPENSATION WILL BE PAID.

IF THE EXISTING SUBGRADE SOIL IS NOT SUITABLE FOR PROVIDING AN IBR SOIL SUPPORT VALUE OF 2, THE TRADE CONTRACTOR SHALL REMOVE THE UNSUITABLE SUBGRADE SOIL BELOW THE PROPOSED SUBGRADE LEVEL TO A DEPTH AS DIRECTED BY THE ENGINEER. COMPACT AND PROOF ROLL THE EXCAVATED AREA. IF UPON PROOF ROLLING THE SUBGRADE IS STILL UNSUITABLE, ADDITIONAL EXCAVATION MAY BE REQUIRED. NO ADDITIONAL COMPENSATION WILL BE MADE REGARDLESS OF THE NUMBER OF TIMES THE AREA IS COMPACTED AND PROOF ROLLED.

CA-1 SHALL BE USED TO BRING THE SUBGRADE TO THE PROPOSED ELEVATION AS INDICATED UNDER THE ITEM POROUS GRANULAR EMBANKMENT, SUBGRADE. POROUS GRANULAR EMBANKMENT, SUBGRADE IS NOT CONSIDERED PART OF THIS ITEM.

THOSE AREAS OF SUBGRADE WHICH ARE NOT OVER EXCAVATED SHALL ALSO BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.

SPECIAL EXCAVATION AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER WILL BE MEASURED FOR PAYMENT IN PLACE AND THE VOLUME IN CUBIC YARDS COMPUTED BY THE METHOD OF AVERAGE END AREAS. EXCAVATION IN EXCESS OF THAT AUTHORIZED SHALL NOT BE MEASURED FOR PAYMENT.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT CUBIC YARD FOR SPECIAL EXCAVATION, WHICH PRICE SHALL INCLUDE ALL COSTS ASSOCIATED WITH UNSUITABLE MATERIAL REMOVAL AND LEGAL DISPOSAL, GRADING COMPACTING AND PROOF ROLLING OF SUBGRADE.

IF THE OWNER IS REQUIRED TO HAVE A GEOTECHNICAL ENGINEER ON-SITE TO MONITOR EARTHWORK, AND THE GRADING ACTIVITY, IN ORDER TO IDENTIFY UNSUITABLE SOILS FOR REMOVAL FROM THE SITE, CONTRACTOR TO ENSURE REQUIREMENTS ARE MET.

SEDIMENT AND EROSION CONTROL

- AN INITIAL SEDIMENTATION AND EROSION CONTROL INSPECTION IS REQUIRED PRIOR TO STARTING CONSTRUCTION. THE APPLICANT IS DIRECTED TO CONTACT THE COMMUNITY DEVELOPMENT DEPARTMENT AT 630-434-5529 TO SCHEDULE THIS INSPECTION; THIS NOTIFICATION SHALL BE AT LEAST 24 HOURS IN ADVANCE OF CONSTRUCTION.
- THE SEDIMENT AND EROSION CONTROL DEVICES SHALL BE FUNCTIONAL BEFORE ANY LAND IS DISTURBED ON THE SITE.
- STOCKPILES OF SOIL SHALL NOT BE LOCATED WITHIN ANY DRAINAGE WAYS, FLOODPLAINS, WETLANDS, BUFFERS OR LPDAS.
- SEDIMENT AND EROSION CONTROL SHALL BE PROVIDED FOR ANY SOIL STOCKPILE IF IT IS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS INCLUDING A DOUBLE ROW OF SILT FENCE OR COIR ROLL.
- PROPERTIES DOWNSTREAM FROM THE SITE SHALL BE PROTECTED FROM EROSION IF THE VOLUME, VELOCITY, SEDIMENT LOAD, OR PEAK FLOW RATES OF STORMWATER RUNOFF ARE TEMPORARILY INCREASED DURING CONSTRUCTION.
- STORM SEWER INLETS SHALL BE PROTECTED WITH SEDIMENT TRAPPING OR FILTER CONTROL DEVICES DURING CONSTRUCTION.
- THE SURFACE OF STRIPPED AREAS SHALL BE PERMANENTLY OR TEMPORARILY PROTECTED FROM SOIL EROSION WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED. STRIPPED AREAS THAT WILL REMAIN UNDISTURBED FOR MORE THAN SEVEN (7) DAYS AFTER INITIAL DISTURBANCE SHALL BE PROTECTED FROM EROSION.
- WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING SHALL BE FILTERED.
- A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROVIDED TO PREVENT THE DEPOSITION OF SOIL ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED BEFORE THE END OF EACH WORKDAY.
- ALL TEMPORARY EROSION CONTROL MEASURES NECESSARY TO MEET THE REQUIREMENTS OF THE VILLAGE OF DOWNERS GROVE STORMWATER AND FLOOD PLAIN ORDINANCE SHALL BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE PERIOD OF LAND DISTURBANCE UNTIL PERMANENT SEDIMENT AND EROSION AND CONTROL MEASURES ARE OPERATIONAL.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL STABILIZATION IS ACHIEVED. TRAPPED SEDIMENT AND OTHER DISTURBED SOILS RESULTING FROM TEMPORARY MEASURES SHALL BE PROPERLY DISPOSED OF PRIOR TO PERMANENT STABILIZATION.
- TRADE CONTRACTOR SHALL ABIDE BY EROSION CONTROL MEASURES OUTLINED IN THE "ILLINOIS URBAN MANUAL, LATEST EDITION" BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA).
- SILT FENCING AND OTHER EROSION CONTROL DEVICES SHALL BE INSTALLED BY THE TRADE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION ACTIVITIES TO THE LIMITS DELINEATED ON THE PLANS. NO DISTURBANCE OF LAND IS ALLOWED OUTSIDE THE SILT FENCE AND PROJECT LIMITS AS INDICATED ON THE PLANS.
- ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES MUST BE INSPECTED WEEKLY AND MAINTAINED. INSPECTIONS SHALL ALSO BE MADE AFTER A RAINFALL EVENT OF 1/2 INCH OR GREATER OR EQUIVALENT SNOW FALL EVENT. IF NECESSARY, REPAIR OR REPLACEMENT MUST BE PERFORMED IMMEDIATELY TO ASSURE EFFECTIVE PERFORMANCE OF THEIR INTENDED FUNCTIONS.
- IF DEWATERING DEVICES ARE USED, DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. ALL PUMPED DISCHARGES SHALL BE ROUTED THROUGH APPROPRIATELY DESIGNED SEDIMENT TRAPS, BASINS, SEDIMENT FILTER BAGS OR EQUIVALENT MEASURES.
- STABILIZATION OF DISTURBED AREAS MUST BE INITIATED WITHIN 1 WORKING DAY OR PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE BUT NOT LATER THAN 7 DAYS FROM THE INITIATION OF STABILIZATION WORK IN AN AREA.
- MAJOR AMENDMENTS OF THE SITE DEVELOPMENT OR EROSION AND SEDIMENTATION CONTROL PLANS SHALL BE SUBMITTED TO THE MUNICIPALITY TO BE APPROVED IN THE SAME MANNER AS THE ORIGINAL PLANS.
- THE TRADE CONTRACTOR SHALL STABILIZE THE SIDE SLOPES GREATER THAN 10:1 OR WHERE SHOWN ON THE PLANS BY INSTALLING NORTH AMERICAN GREEN SC150BN EROSION CONTROL BLANKET. WITHIN 5 DAYS AFTER FINAL GRADE IS ACHIEVED AND FOLLOWING SEEDING WITH THE TEMPORARY SEED MATRIX, THE EROSION CONTROL BLANKET SHALL BE INSTALLED AS REQUIRED BY THE MANUFACTURER'S STANDARDS AND SPECIFICATIONS.
- TEMPORARY STOCKPILES SHALL HAVE A SILT FENCE ERRECTED AROUND THE PERIMETER OF THE PILE. IF A PILE IS TO REMAIN IN PLACE FOR MORE THAN 14 DAYS, IT SHALL BE TEMPORARY SEEDED.
- SOIL STOCKPILE LOCATIONS MAY BE LOCATED BY THE CONTRACTOR AS NECESSARY ONSITE AND DO NOT NEED TO MATCH EXACT LOCATION AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN. PROVIDE SILT FENCE AROUND ALL STOCKPILE LOCATIONS. NO STOCKPILES SHALL BE PLACED IN THE PROPOSED DETENTION POND OR BE PLACED IN FLOOD PROTECTION AREAS OR THEIR BUFFERS.
- ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY EXISTING STORM DRAINAGE SYSTEM BY THE USE OF INLET PROTECTIONS/FILTER, ROCK CHECK DAMS OR OTHER APPROVED METHODS. THE TRADE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT RESULTING FROM THIS PROJECT FROM ALL SEWERS AND DRAINAGE STRUCTURES (NO FLUSHING DOWNSTREAM) UNTIL 90% OF VEGETATION IS ESTABLISHED.
- TEMPORARY SEDIMENT BARRIERS, INLET PROTECTION/FILTER PROTECTION, FOR STORM SEWER GRATES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS WITHIN THE PLANS AND THE ILLINOIS URBAN MANUAL.
- THE TRADE CONTRACTOR SHALL PRESCRIBE THE METHODS OUTLINED IN THE ILLINOIS URBAN MANUAL TO CONTROL DUST. ACCEPTABLE MEASURES INCLUDE VEGETATIVE COVER (TEMPORARY SEEDING), MULCH, IRRIGATION, STONE, AND PERMANENT VEGETATION (PERMANENT SEEDING). TEMPORARY DUST CONTROL MEASURES (BY MEANS ACCEPTABLE TO LOCAL AUTHORITIES) SHALL BE APPLIED AS NEEDED TO ACCOMPLISH DUST CONTROL.
- IF AN EXISTING ON-SITE ASPHALT ACCESS IS NOT PRESENT THEN, THE TRADE CONTRACTOR SHALL PROVIDE A CONSTRUCTION ACCESS ROAD CONSTRUCTED OF IDOT CA-1 FOR 100 FEET IN LENGTH. THE TRADE CONTRACTOR SHALL MAINTAIN THE ADJACENT ROADS FREE OF MUD AND SEDIMENT AT ALL TIMES. REFER TO THE ILLINOIS URBAN MANUAL STANDARD DRAWING IL-630.
- ALL ACCESS TO AND FROM THE CONSTRUCTION SITE IS TO BE RESTRICTED TO THE CONSTRUCTION ENTRANCE.
- TRADE CONTRACTOR IS RESPONSIBLE FOR KEEPING PUBLIC STREETS CLEAR OF DIRT, DUST, DEBRIS AND MUD ON A DAILY BASIS FOR THE ENTIRE CONSTRUCTION PERIOD BY A MEANS ACCEPTABLE TO LOCAL AUTHORITIES.
- 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.
- A SWPPP IS NOT ANTICIPATED FOR THIS DEVELOPMENT SINCE THE DISTURBED AREA IS LESS THAN 1.0 ACRES

ABBREVIATIONS

A	ARC LENGTH	MH	MANHOLE
B/C	BACK OF CURB	N.D.L	NO DISTURB LINE
B-B	BACK-TO-BACK OF CURB	N.I.C.	NOT IN CONTRACT
BI	BITUMINOUS PAVEMENT	N.W.E.	NORMAL WATER ELEVATION
B.L.	BUILDING LINE	P.I.	POINT OF INTERSECTION
B.M.	BENCH MARK	P.R.C.	POINT OF REVERSE CURVATURE
BRW	BOTTOM OF RETAINING WALL	P.W.C.	POLYETHYLENE CHLORIDE
B/W	BACK OF SIDEWALK	P.T.	POINT OF TANGENCY
CHDPE	CLEAN OUT	P.L.	PROPERTY LINE
CO	CORRUGATED HIGH DENSITY POLYETHYLENE PIPE	P.C.	POINT OF CURVATURE
C & G	CURB AND GUTTER	PVI	POINT OF VERTICAL INTERSECTION
C.B.	CATCH BASIN	R	RADIUS
CP	CONTROL POINT	RCP	REINFORCED CONCRETE PIPE
DWG.	DRAWING	REC.	RECORD DIMENSION
D.I.P.	DUCTILE IRON PIPE	R.O.W.	RIGHT-OF-WAY
DI.A.	DIAMETER	R.T.	RIGHT
D	DISTANCE	SHT	SHEET
DC	DEPRESSED CURB	S	SLOPE
D.E.	DRAINAGE EASEMENT	STA	STATION
D.V.	DETECTION VOLUME	STMH	STORM MANHOLE
DS	DOWNSPOUT	SAN	SANITARY
ELEV./ EL.	ELEVATION	SMH	SANITARY MANHOLE
E/P	EDGE OF PAVEMENT	T.E.	TOP ELEVATION
E.X.	EXPANSION JOINT	T/C	TOP OF CURB
EX.	EXISTING	T.O.P.	TOP OF PIPE
F.G.	FINISH GRADE	T	TELEPHONE
F-F	FACE-TO-FACE OF CURB OR WALL	TRW	TOP OF RETAINING WALL
F/L	FLOW LINE	TYP	TYPICAL
F.H.	FIRE HYDRANT	U.E.	UTILITY EASEMENT
F.E.S.	FLARED END SECTION	V.C.	VERTICAL CURVATURE
FIP	FOUND IRON PIPE	V.I.F.	VITRIFIED HUB TILE
F/F	FINISHED FLOOR	V.B.	VALVE BOX
GAV	GAS VALVE	V.V.	VALVE VAULT
GF	GRADE AT FOUNDATION	V.C.P.	VITRIFIED CLAY PIPE
G.L.	GUTTER LINE	VER.	VERTICAL
GR	GRADE ELEVATION	W	WATER
GV/VV	GATE VALVE IN VALVE VAULT	W/W	WITH
GV/VB	GATE VALVE IN VALVE BOX	WM	WATER MAIN
HDW	HEADWALL		
HOR.	HORIZONTAL		
H.W.E.	HIGH WATER ELEVATION		
I.E. / INV.	INVERT ELEVATION		
INL	INLET		
IRR.	IRRIGATION		
L	LENGTH		
L.P.	LIGHT POLE		
LEFT	LEFT		
(M)	MEASURED BEARING OR DISTANCE		
M/E	MATCH EXISTING		
M.O.	MID ORDINATE		

LEGEND

EXISTING			
	STORM SEWER		FIRE HYDRANT
	SANITARY SEWER		WATER VALVE VAULT
	WATER MAIN		WATER VALVE BOX
	TELEPHONE		WATER BUFFALO BOX
	ELECTRICAL		WATER METER
	GAS MAIN		ELECTRIC METER
	GUARD RAIL		GAS METER
	EXISTING FENCE		GAS VALVE
	STORM MANHOLE		CLEANOUT
	CATCH BASIN		VILLAGE ELEC. MH
	INLET		COMED ELEC. MH
	FLARED END SECTION		TELEPHONE MH
	SANITARY MANHOLE		SOIL BORING
	DECIDUOUS TREE		LIGHT POLE
	EVERGREEN TREE		POWER POLE
	SIGN		TELEPHONE POLE
PROPOSED			
	COMBINED SEWER		FIBER OPTIC CONDUIT
	STORM SEWER		ELECTRIC LIGHT
	SANITARY SEWER		CLEANOUT ACCESS
	WATER MAIN		FIRE HYDRANT
	TELEPHONE		WATER VALVE VAULT
	ELECTRICAL		WATER VALVE BOX
	GAS MAIN		ELECTRIC MANHOLE
	GUARD RAIL		TELEPHONE PEDESTAL
	STORM MANHOLE		GAS METER
	CATCH BASIN		DOWNSPOUT
	SANITARY MANHOLE		
	DECIDUOUS TREE		
	SIGN		
	TELEVISION		
	ELECTRIC GENERATOR		
	ELECTRIC TRANSFORMER		
	ELECTRIC METER BOX		
	SILT FENCE		
	FENCE/GATE		



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	ISSUED FOR BID	02-16-23
	ISSUED FOR PERMIT	01-26-23
REV	DESCRIPTION	DATE

KINGSLEY ELEMENTARY SCHOOL PLAYGROUND

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Downers Grove, IL 60516

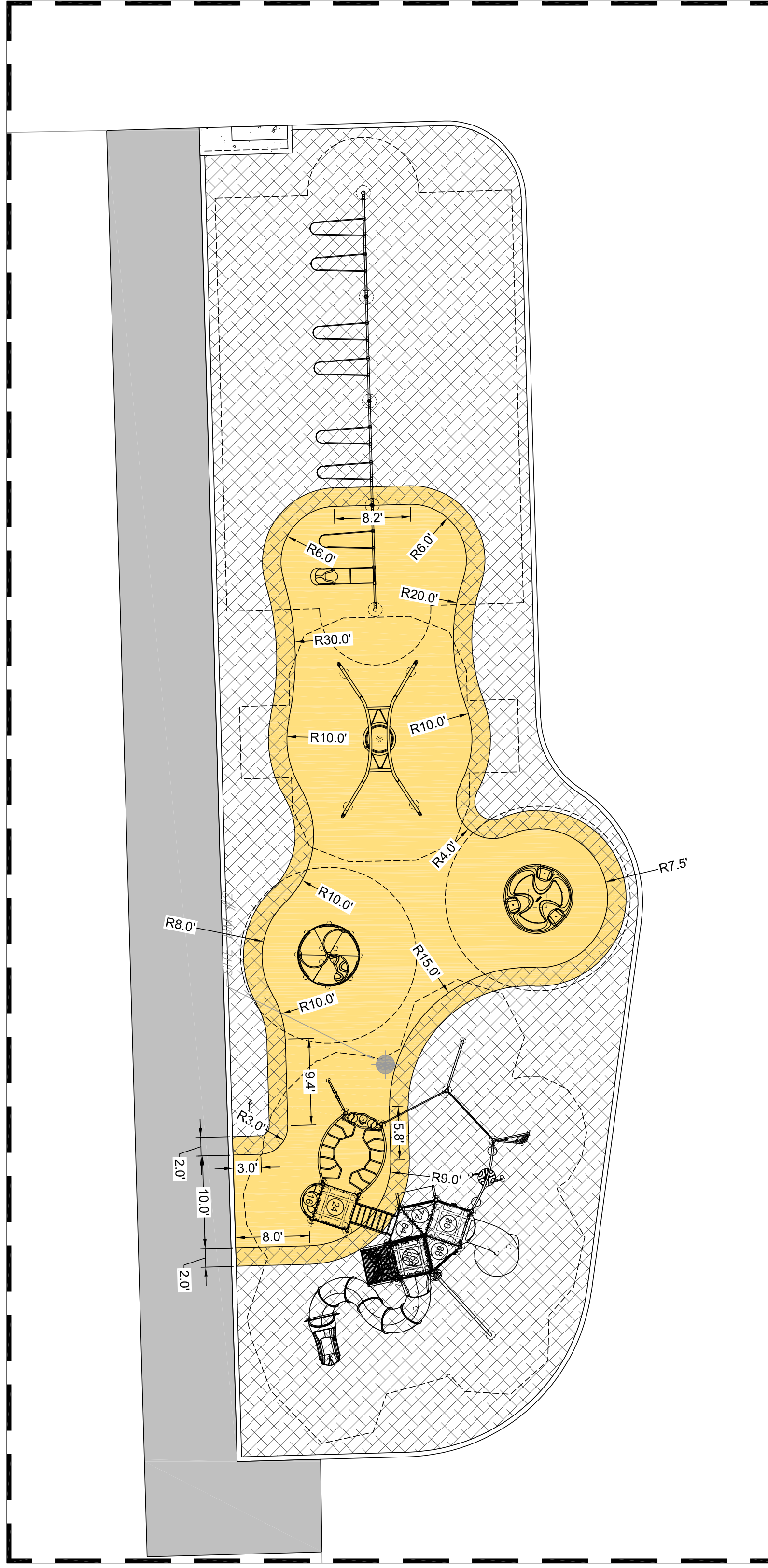
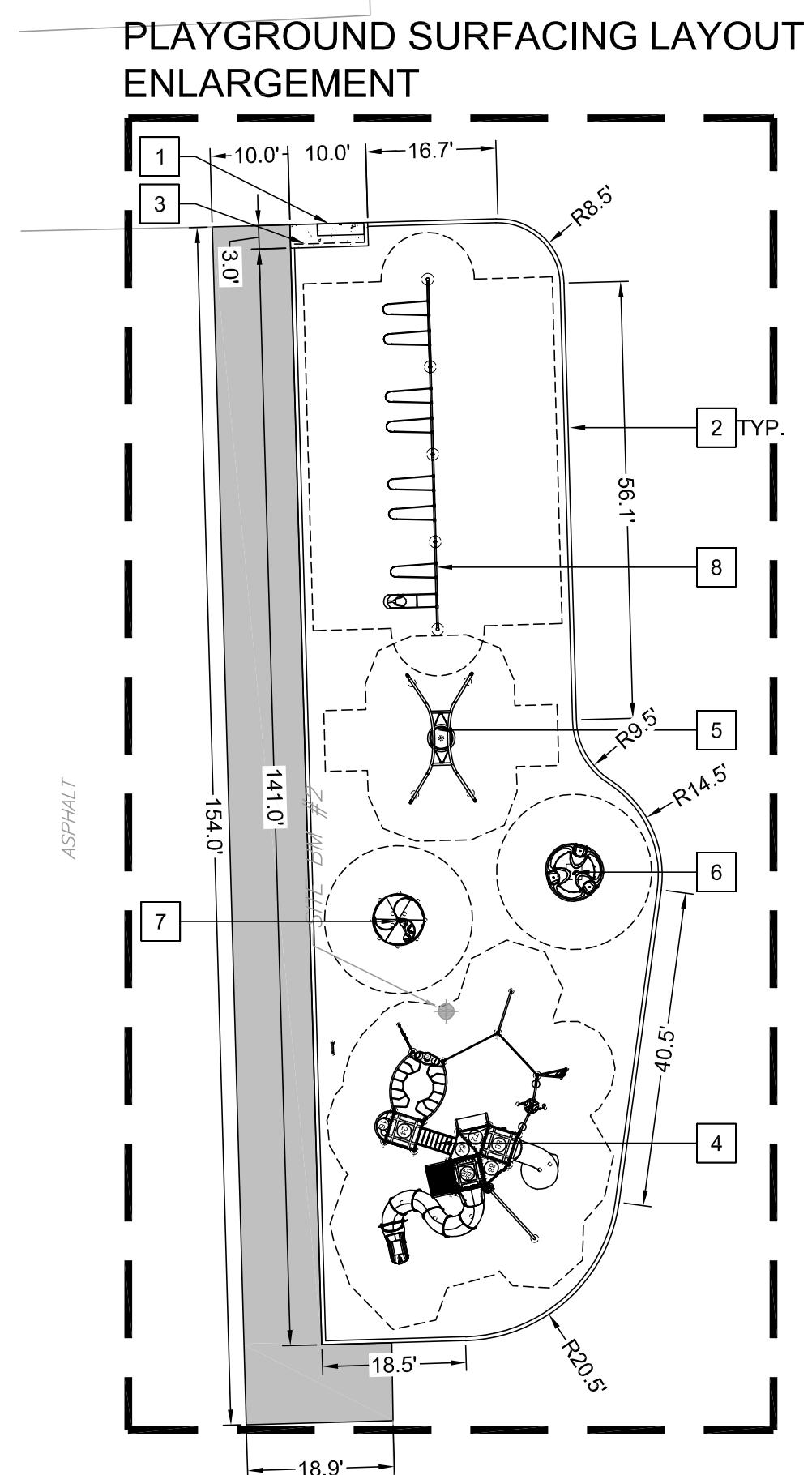
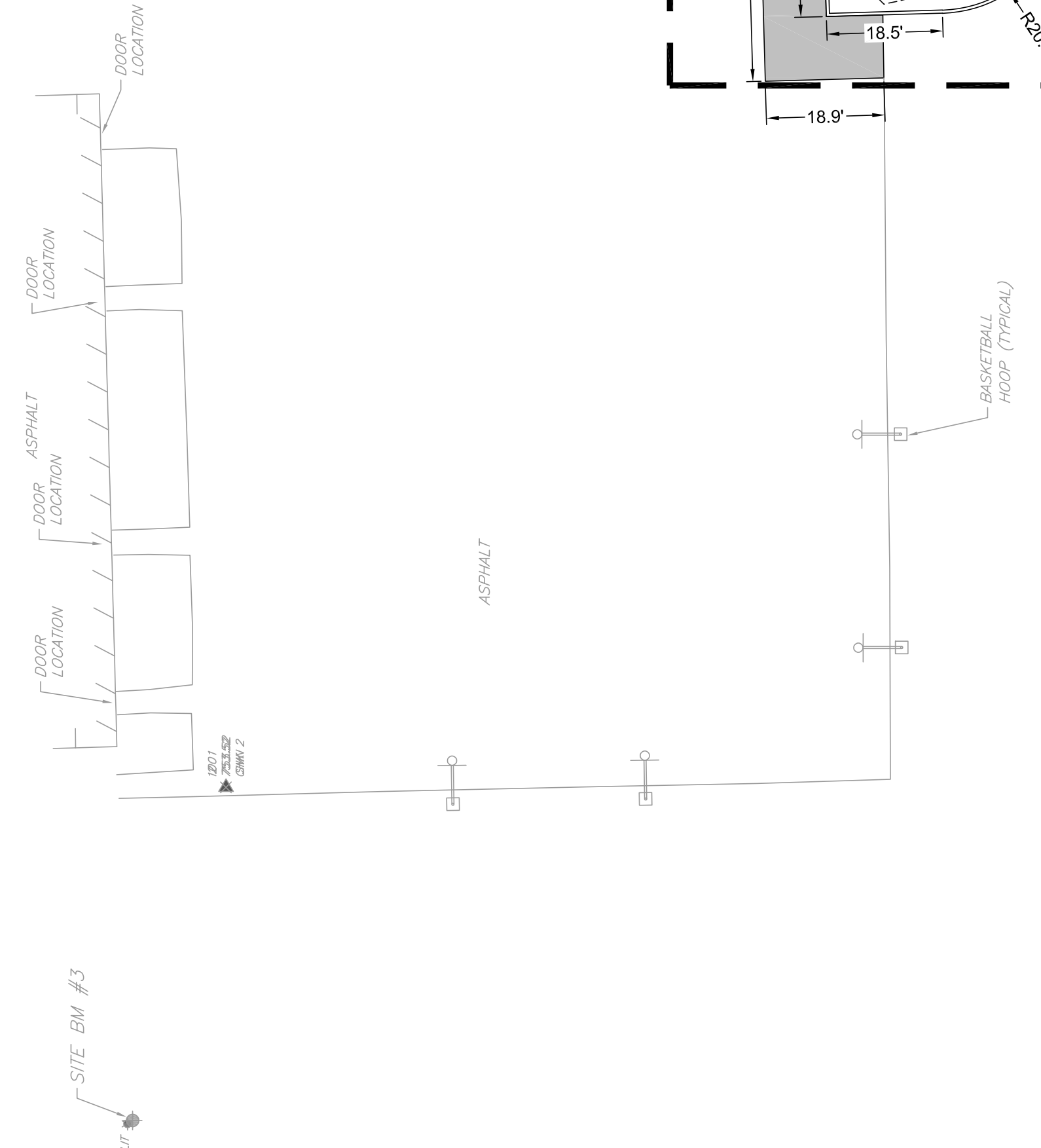
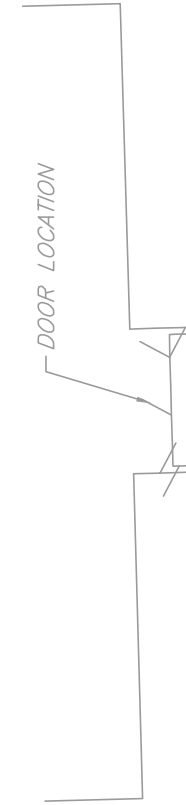
GENERAL NOTES

Project Number:	Scale:	1" = 20'
200034		
Drawn By:		
LMB		
Sheet:		



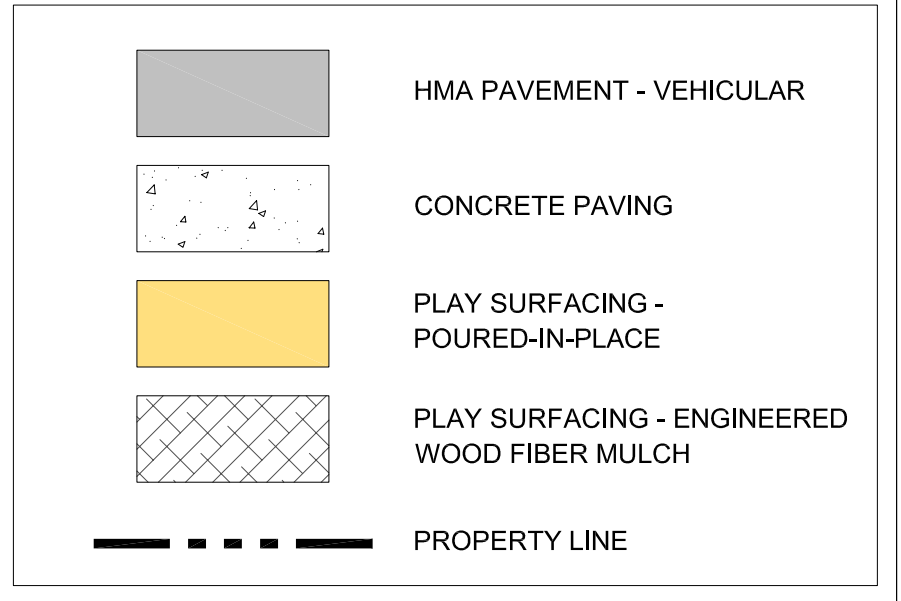
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PLAYGROUND SURFACING LAYOUT ENLARGEMENT
 SCALE: 1"=10'-0"

LEGEND



KEY NOTES

- 1 RELOCATED BENCH
- 2 PLAYGROUND CURB
- 3 THICKENED CONCRETE EDGE
- 4 MAIN PLAYGROUND STRUCTURE, PLAY EQUIPMENT PURCHASED BY OWNER AND INSTALLED BY CONTRACTOR.
- 5 VOLITO SWING, PLAY EQUIPMENT PURCHASED BY OWNER AND INSTALLED BY CONTRACTOR.
- 6 VOLTA INCLUSIVE SPINNER, PLAY EQUIPMENT PURCHASED BY OWNER AND INSTALLED BY CONTRACTOR.
- 7 INCLUSIVE ORBIT, PLAY EQUIPMENT PURCHASED BY OWNER AND INSTALLED BY CONTRACTOR.
- 8 SWINGS, PLAY EQUIPMENT PURCHASED BY OWNER AND INSTALLED BY CONTRACTOR.

SITE PLAN AND LAYOUT NOTES

1. ALL LAYOUT FOR SITE IMPROVEMENTS SHALL BE COMPLETED BY A PROFESSIONAL LAND SURVEYOR HIRED BY THE CONTRACTOR. LAYOUT SHALL BE COMPLETED USING THE ELECTRONIC CAD FILES PROVIDED BY THE ENGINEER. NO ADDITIONAL PAYMENT WILL BE MADE FOR ADJUSTMENT NECESSARY TO CONSTRUCT THE WORK AS DRAWN.
2. CONTRACTOR SHALL OBTAIN APPROVAL OF LAYOUT FROM THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION. NO ADDITIONAL PAYMENT SHALL BE MADE TO CORRECT WORK IF CONSTRUCTED INCORRECTLY PRIOR TO APPROVAL OF LAYOUT.
3. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL LAYOUT MARKINGS. NO ADDITIONAL PAYMENT WILL BE MADE TO REPLACE MARKINGS.
4. ALL DIMENSIONS, CURB RADII, AND ELEVATIONS REFER TO THE BACK OF CURB WHERE CURB SHOWN UNLESS OTHERWISE SHOWN. ALL WALL DIMENSIONS ARE TO THE FACE OF WALL UNLESS OTHERWISE SHOWN. ALL PAVEMENT DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE SHOWN. COORDINATES ARE TO THE BACK OF CURB, CENTER OF STRUCTURE, OR AS SHOWN.
5. ALL RADII SHALL BE SMOOTH AND CONTINUOUS AND NOT SEGMENTED. CONTRACTOR TO PROVIDE STAKES A MINIMUM OF EVERY 10 FEET WHERE RADIUS POINTS ARE NOT ACCESSIBLE.
6. ADJUSTMENTS TO STAKE LOCATIONS DUE TO DISCREPANCIES BETWEEN COORDINATES AND DIMENSIONS ARE CONSIDERED INCIDENTAL TO THE WORK.
7. CONTRACTOR RESPONSIBLE TO TAKE DELIVERY, VERIFY CONDITION AND COMPLETENESS, ASSEMBLE AND INSTALL ALL MATERIALS AND FURNISHINGS PER MANUFACTURER'S INSTRUCTIONS.
8. PLACE CONTROL AND EXPANSION JOINTS WHERE INDICATED ON PLANS AND DETAILS FOR CONCRETE WORK. WHERE JOINTS ARE NOT SHOWN, PLACE CONTROL JOINTS IN SPACING TO MATCH PAVEMENT WIDTH OR MAXIMUM OF 10 FEET ON CENTER. EXPANSION JOINTS SHALL BE A MAXIMUM OF 30 FEET ON CENTER AND BETWEEN ALL POURS AND EXISTING CONCRETE OR WALLS.
9. ANY CHANGE TO THE SITE PLAN DURING DESIGN OR IN FIELD DURING CONSTRUCTION MUST BE SUBMITTED IN WRITING TO THE ENGINEER AND VILLAGE OF DOWNERS GROVE.
10. REFER TO LANDSCAPE PLAN FOR RESTORATION



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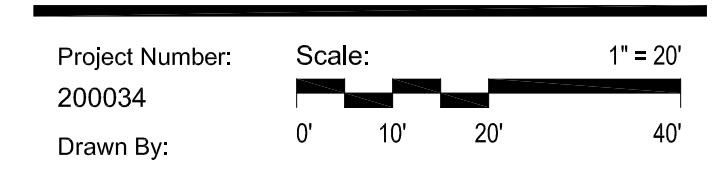
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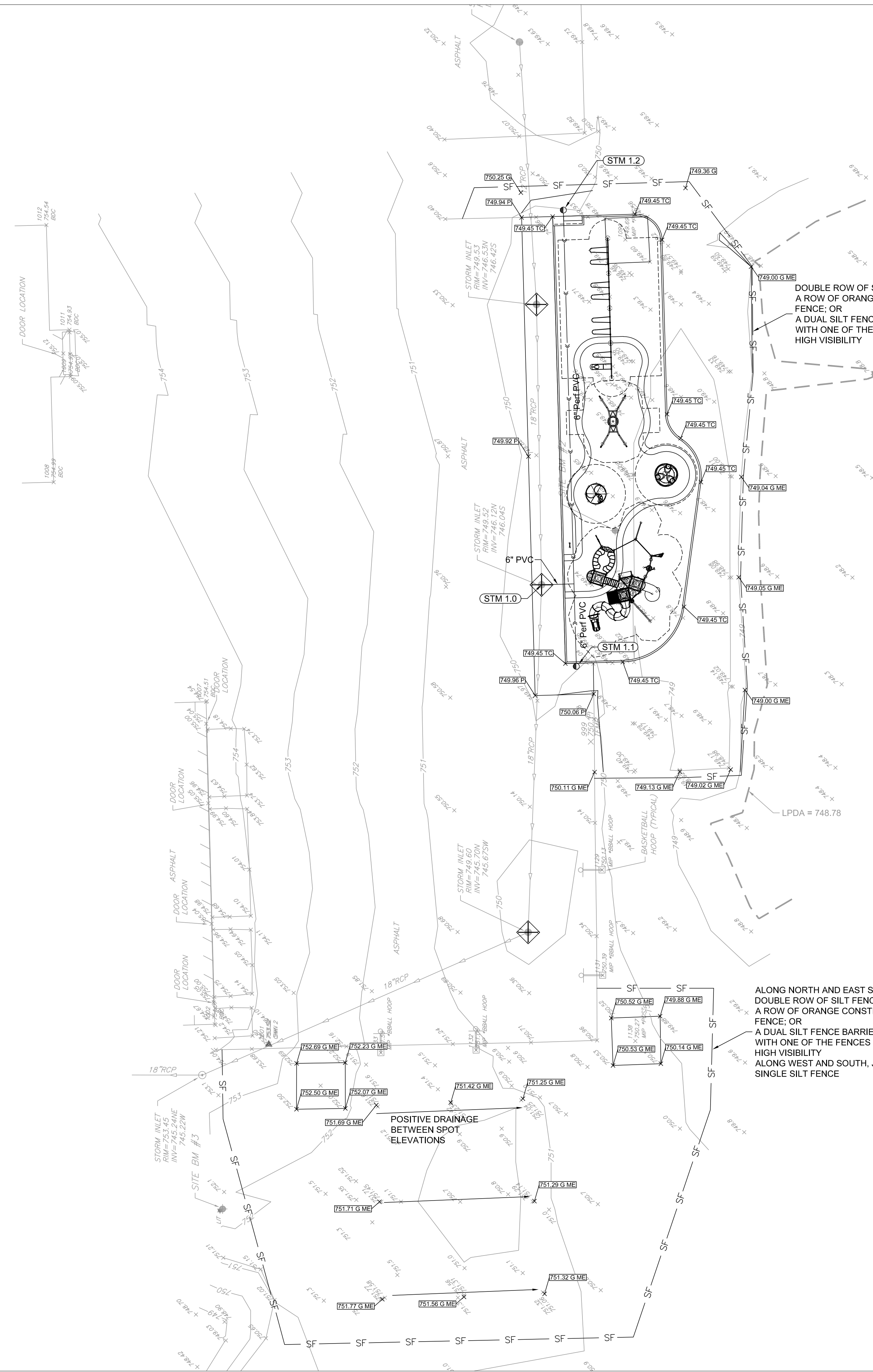
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KINGSLEY ELEMENTARY SCHOOL PLAYGROUND

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SITE PLAN





LEGEND

ME	MATCH EXISTING ELEVATION
HP	HIGH POINT
11.77 P	TOP OF PAVEMENT ELEVATION
11.77 G	GROUND ELEVATION
11.77 SW	TOP OF SIDEWALK ELEVATION
11.77 RM	RIM ELEVATION
11.77 PS	PLAY SURFACE
7.45	EXISTING CONTOUR LINE
7.45	PROPOSED CONTOUR LINE
2.0%	SLOPE/FLOW DIRECTION
→	STORM SEWER
→	UNDERDRAIN
●	OPEN LID STORM CATCH BASIN
○	CLOSE LID MANHOLE
●	CLEANOUT
◆	INLET PROTECTION
— SF —	SILT FENCE

GRADING NOTES

- CONTRACTOR TO VERIFY ALL EXISTING UTILITY LOCATIONS, SIZES, SLOPES, INVERTS, ETC. AND CONTACT ENGINEER IMMEDIATELY IF THERE ARE ANY CONFLICTS/DISCREPANCIES.
- CONTRACTOR TO PROTECT ALL EXISTING UTILITIES.
- ALL EXISTING UTILITY STRUCTURES SHALL BE ADJUSTED AS NECESSARY TO MATCH FINISH GRADE. ALL EXISTING UTILITY STRUCTURES REQUIRING ADJUSTMENT OR RECONSTRUCTION SHALL BE COMPLETED BY THE CONTRACTOR TO THE SATISFACTION OF THE UTILITY OWNER. ADJUSTMENTS AND/OR RECONSTRUCTIONS NOT CALLED FOR ON THE PLANS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. NO MORE THAN A TOTAL OF 12 INCHES OF ADJUSTING RINGS AND/OR 2 ADJUSTING RINGS SHALL BE ALLOWED.
- ALL SITE WORK SHALL BE IN CONFORMANCE WITH THE ILLINOIS ACCESSIBILITY CODE AND WITH THE AMERICANS WITH DISABILITIES ACT.
- SLOPES BETWEEN SPOT ELEVATIONS ON PATHWAYS SHALL BE CONSISTENT.
- MAXIMUM SLOPE ON ALL PAVED SURFACES IS 1:20 (5%). RAMPS SHALL NOT EXCEED A RUNNING SLOPE OF 1:12 (8.33%).
- ALL SURFACES SHALL BE GRADED FOR POSITIVE DRAINAGE. MAXIMUM CROSS-SLOPE ON ANY WALK OR RAMPS SHALL BE 2% IN DIRECTION INDICATED. IF NO DIRECTION IS INDICATED, GRADE FOR POSITIVE DRAINAGE AWAY FROM WALLS, COLUMNS, STEPS, AND STRUCTURES.
- ALL ACCESSIBLE PARKING SPACES AND LOADING ZONES SHALL HAVE A MAXIMUM SLOPE OF 2% IN ANY DIRECTION.
- AVOID EXCESSIVE FILL IN CRITICAL ROOT ZONES. SEE SPECIFICATIONS. FEATHER NEWLY GRADED AREAS INTO EXISTING GRADE.
- TOPSOIL IN AREAS DESIGNATED FOR PAVING SHALL BE STRIPPED AND RESPREAD IN ACCORDANCE WITH GRADING PLAN. HAUL OFF-SITE AND LEGALLY DISPOSE OF UNSUITABLE OR EXCESS EXCAVATED MATERIAL.
- TOPSOIL IN AREAS OF NEWLY CREATED BERMS SHALL BE STRIPPED AND STOCKPILED. CONSTRUCT BERM USING ON-SITE FILL MATERIAL OR IMPORTED MATERIAL AS DIRECTED. RESPREAD TOPSOIL IN ACCORDANCE WITH GRADING PLAN AND SPECIFICATIONS.
- TOPSOIL SHALL BE IMPORTED AS NEEDED AND SPREAD AT SPECIFIED DEPTHS TO ACHIEVE FINAL GRADE. GRANULAR FILL WILL NOT BE ACCEPTED UNDER TURF OR PLANTING AREAS.
- PROMPTLY NOTIFY OWNER'S REPRESENTATIVE IS UNSATISFACTORY SUB-GRADE MATERIALS ARE DISCOVERED.
- OBTAIN LANDSCAPE ARCHITECT'S REVIEW OF FINE GRADING PRIOR TO SEEDING OPERATIONS.
- REFER TO SPECIFICATIONS FOR ADDITIONAL CONDITIONS, STANDARDS, AND NOTES.
- ANY SOIL STOCKPILES SHALL BE PROTECTED WITH DOUBLE ROW OF SILT FENCE COIR ROLL AROUND PERIMETER.
- ANY DAMAGE TO TREES WITHIN THE VILLAGE RIGHT OF WAY AS A RESULT OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE APPLICANT TO ADDRESS AT THE DIRECTION OF THE VILLAGE FORESTER.

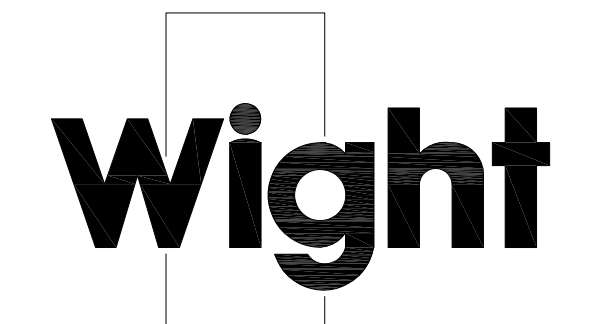
AS-BUILT NOTES:

THE CONTRACTOR IS RESPONSIBLE FOR ALL AS-BUILT SURVEYS. ALL AS-BUILT SURVEYS SHALL BE COMPLETED BY A PROFESSIONAL LAND SURVEYOR AND BE SIGNED AND SEALED. THE GRADING AND UTILITY CONSTRUCTION PLANS SHOULD BE USED AS THE BACKGROUND FOR ALL AS-BUILTS. THE CONTRACTOR SHALL SUBMIT TWO SETS OF THE "AS-BUILT" FINAL ENGINEERING DRAWINGS (I.E. RECORD DRAWINGS) AND STORMWATER MANAGEMENT CALCULATIONS UPON COMPLETION OF IMPROVEMENTS AND INCLUDE ELECTRONIC CAD FILES. THE RECORD DRAWINGS SHOULD AT LEAST INCLUDE THE FOLLOWING INFORMATION: AS-BUILT DETENTION CONTOURS, ELEVATIONS (INCLUDING DETENTION BASIN TOP OF BERM AND OVERFLOW WEIR GRADES) AND VOLUME (VERIFIED, SIGNED, & SEALED BY A PROFESSIONAL ENGINEER (PE) OR PROFESSIONAL LAND SURVEYOR (PLS)) ELEVATION, AND LOCATION TIES (TO TWO POINTS) OF ALL NEW STRUCTURES INCLUDING FIRE HYDRANTS, VALVE BOXES AND VAULTS, LINESTOP SLEEVES, WATER SERVICE CORPORATION STOPS, WATER MAIN FITTINGS/BENDS, MANHOLES, SANITARY SERVICE WYES (MEASURED FROM DOWNSTREAM MANHOLE), ALL STORM/SANITARY SEWER STRUCTURES (INCLUDING INVERTS AND PIPE SIZES), ALL PIPES (LOCATIONS, SLOPES, LENGTHS, ETC.), OUTLET CONTROL STRUCTURES (INCLUDING RESTRICTOR SIZES AND ELEVATIONS PLUS TOP OF WALL) AND ABANDONED WATER OR SANITARY SERVICE LINES, DETAILED TOPOGRAPHIC SURVEY OF ALL HIGH POINTS, LOW POINTS, CHANGE OF SLOPE INCLUDING GUTTER GRADES, TOP OF CURB GRADES, PAVEMENT GRADES, SIDEWALK GRADES, RAMP GRADES, ETC. TO VERIFY POSITIVE DRAINAGE. ALL ELEVATIONS SHOULD BE REFERENCED TO THE SAME BENCHMARK DATUM AS THE ORIGINAL DESIGN PLANS. HORIZONTAL TIES SHALL BE REFERENCED TO LOT LINES, BACK OF CURB, OR PROPERTY CORNERS.

WITHIN DETENTION/BMP AREAS: FOR VERIFICATION OF DETENTION VOLUME AND SUBBASE GRADES, PRIOR TO BACK FILLING WITH CA-7, THE CONTRACTOR SHALL PROVIDE ENGINEER WITH A CERTIFIED TOPO SURVEY OF AS-BUILT SUBBASE GRADES FOR ENGINEER APPROVAL AND ALSO A COPY OF RECEIPT OF THE CA-7 AGGREGATE.



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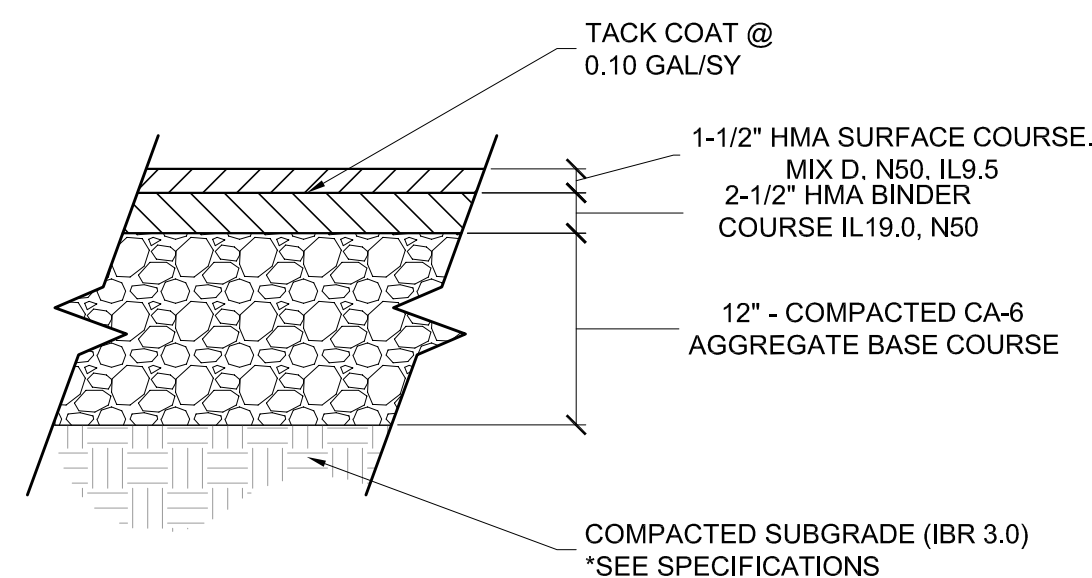
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GRADING AND DRAINAGE PLAN

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 Drawn By: LMB
 Sheet:

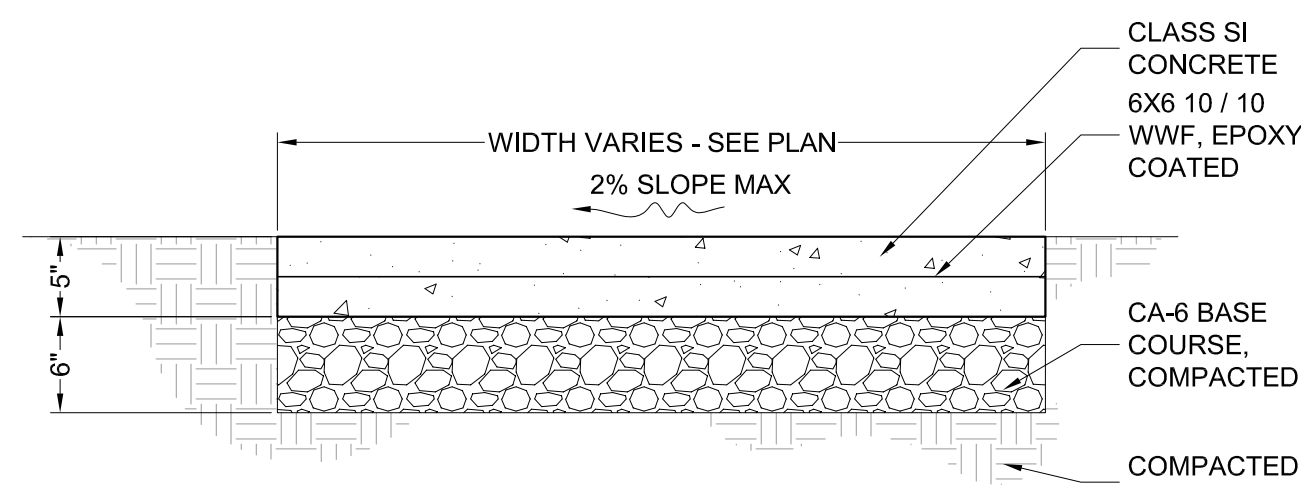


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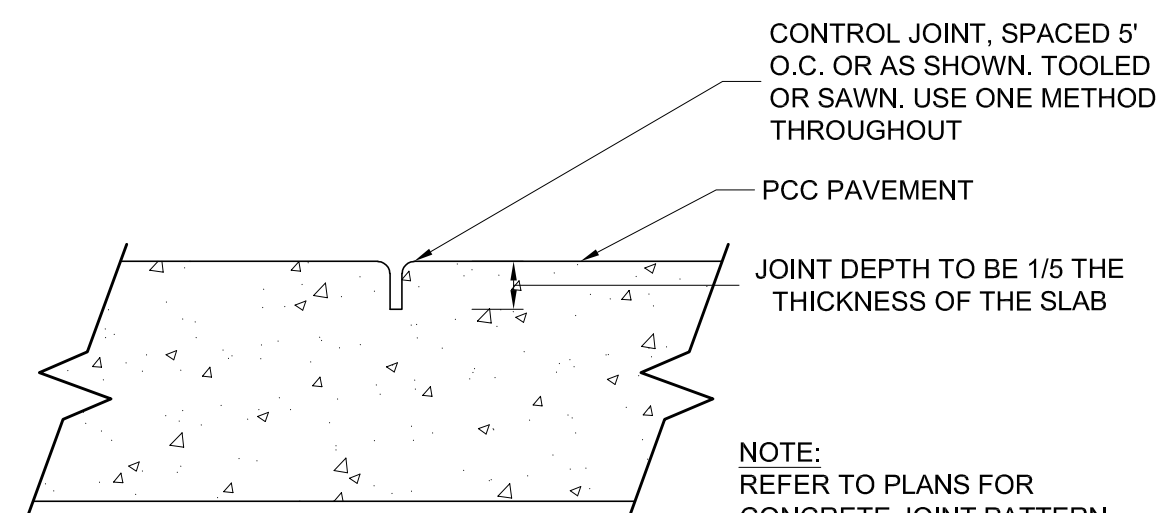
NOTES:
 1. FOR UNSUITABLE SUBGRADES UNDERCUT PER GEOTECHNICAL'S / ENGINEER'S RECOMMENDATION. (2 FOOT MAXIMUM)

1 HMA PAVEMENT - VEHICULAR
 SCALE: 1"=1'-0"



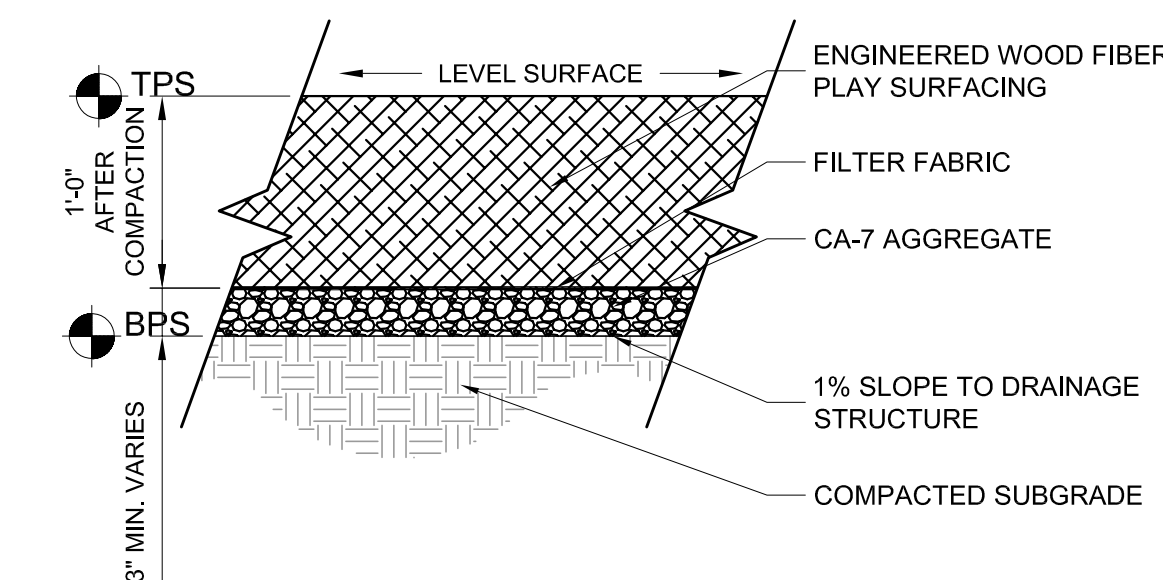
NOTES:
 1. ALL SIDEWALKS SHALL BE CONSTRUCTED WITH IDOT CLASS SI CONCRETE, NOT LESS THAN 3500 P.S.I. CONCRETE AT 14 DAYS.
 2. SIDEWALK THICKNESS CROSS DRIVEWAY SHALL BE A MINIMUM 8".
 3. REFER TO EXPANSION JOINT DETAIL.
 4. THE TRANSVERSE JOINTS SHALL EXTEND TO 1/4 THE DEPTH OF THE SIDEWALK, SHALL NOT BE MORE THAN 1/4" IN WIDTH, AND SHALL BE EDGED HAVING A 1/4 INCH RADIUS. NO SLAB SHALL BE LONGER THAN 6 FEET NOR LESS THAN 4 FEET ON ANY ONE SIDE.

2 CONCRETE PAVING
 SCALE: 1"=1'-0"

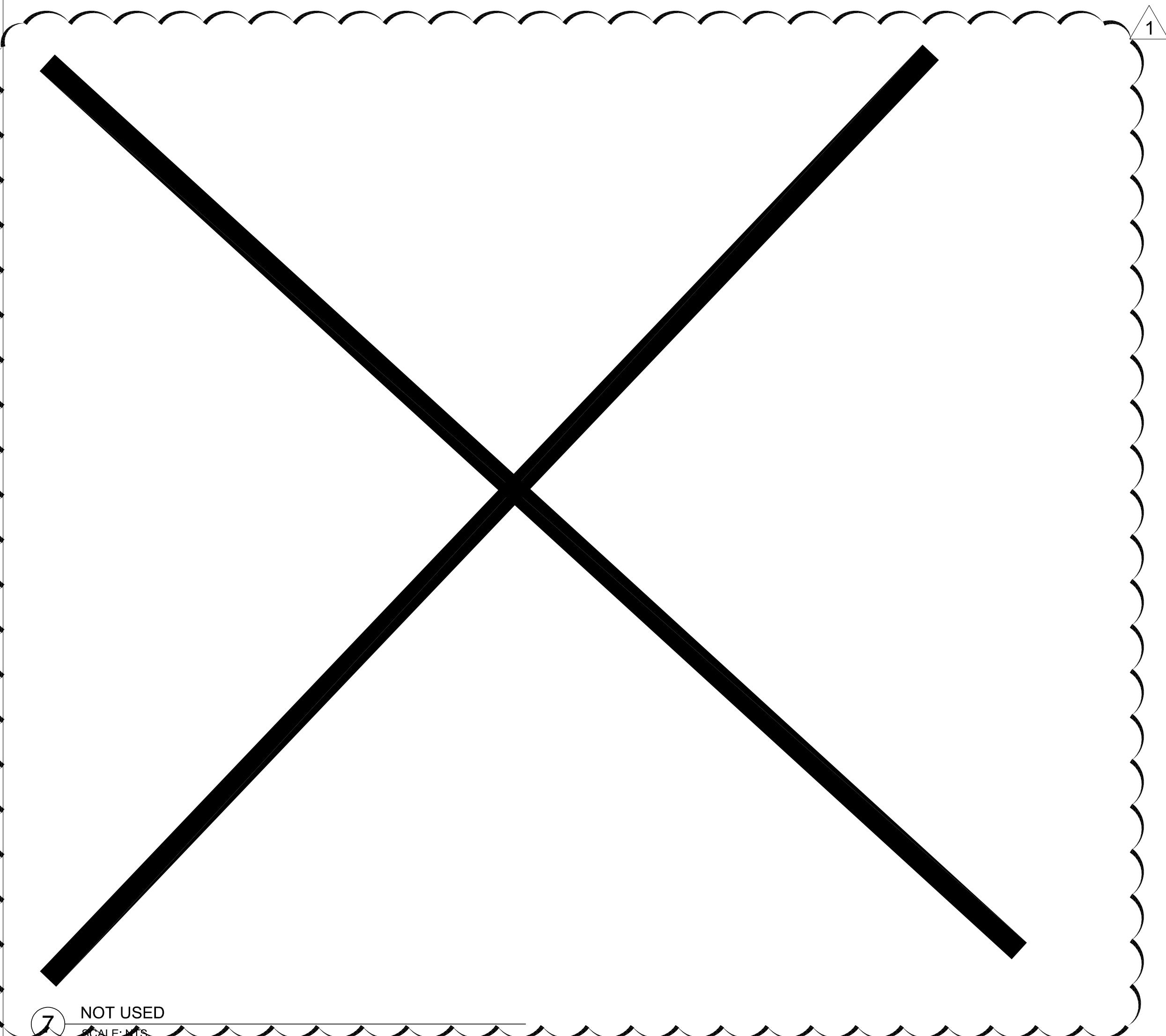


NOTE:
 REFER TO PLANS FOR CONCRETE JOINT PATTERN

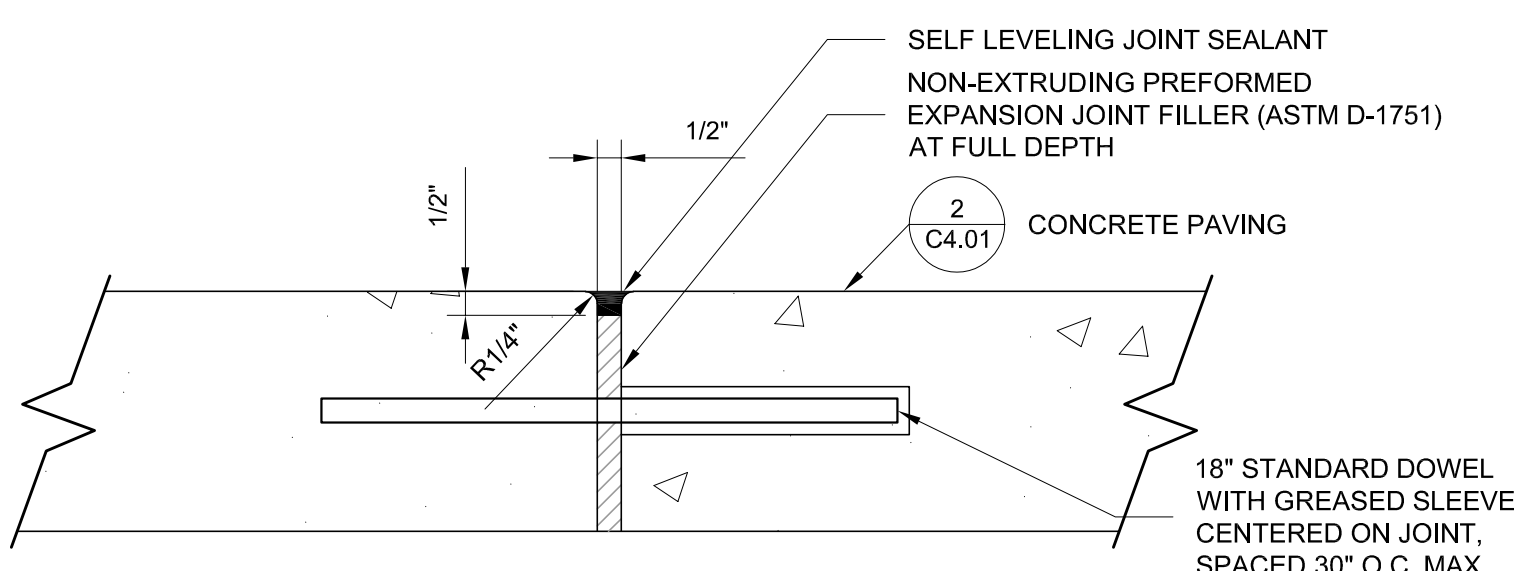
3 CONTROL JOINT
 SCALE: 3"=1'-0"



4 PLAY SURFACING - ENGINEERED WOOD FIBER MULCH
 SCALE: 1"=1'-0"

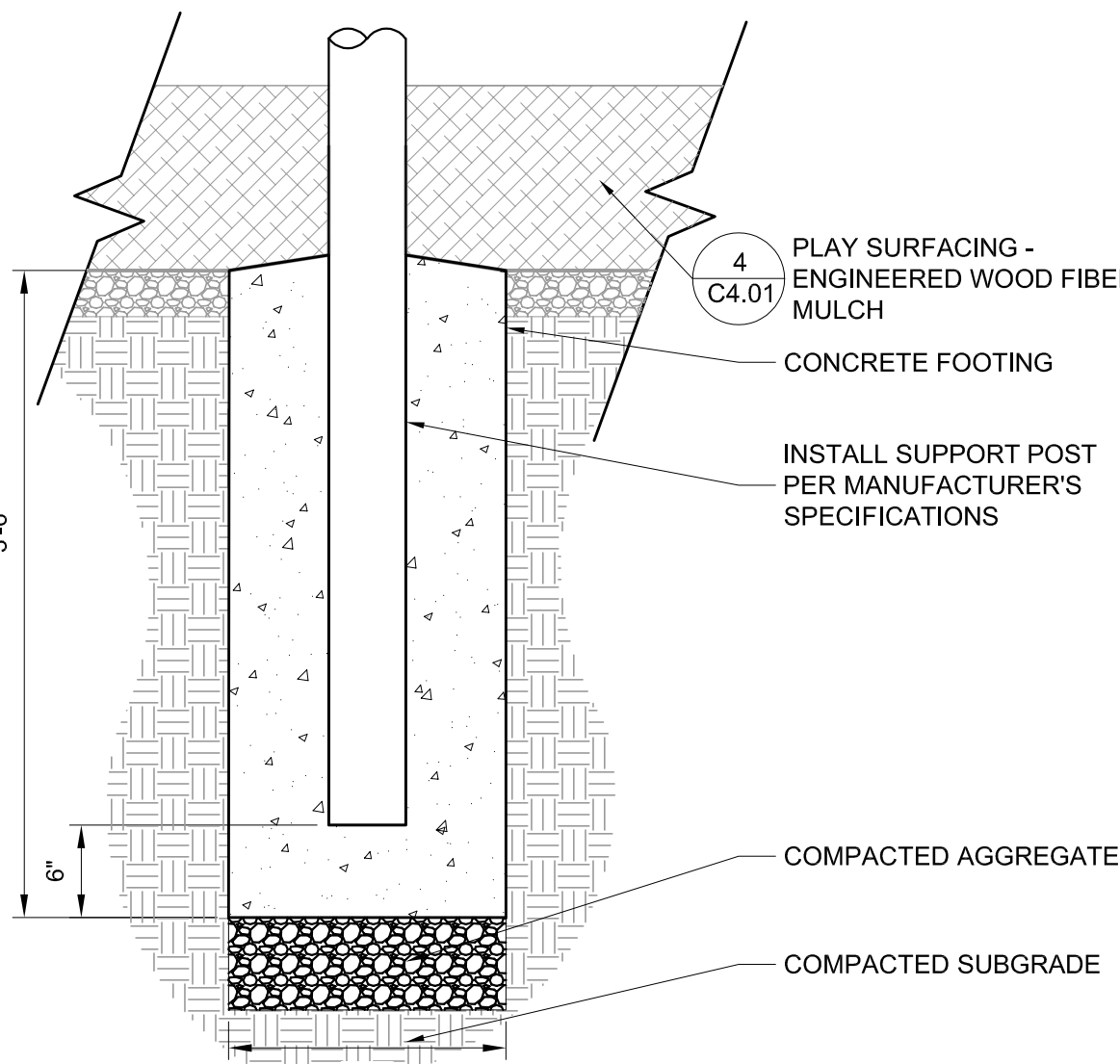


NOT USED
 SCALE: N/A

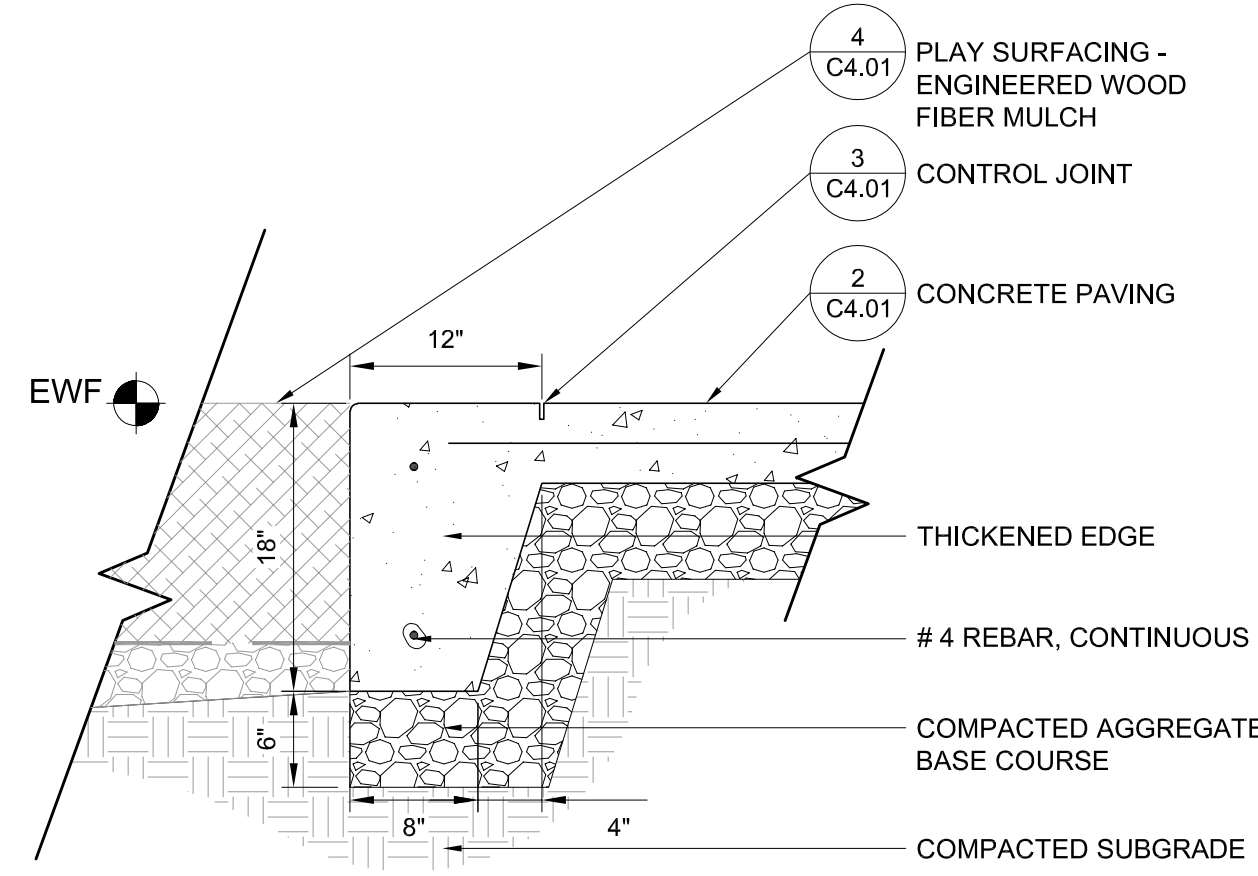


NOTES:
 1. PREFORMED FLEXIBLE FOAM EXPANSION JOINT FILLER NOT ACCEPTED.
 2. EACH EXPANSION JOINT SHALL HAVE (2) 3" DOWEL BARS, 18" LONG AND PROPERLY LUBRICATED, PLACED AT MID DEPTH.
 3. EXPANSION JOINTS 3/8" THICK SHALL BE WHERE PROPOSED CONCRETE MEETS EXISTING CONCRETE, AT 50 FT INTERVALS FOR HAND POURS AND 100 FT INTERVALS FOR SLIP OR MONOLITHIC POURS.
 4. EXPANSION JOINTS, 3/8" THICK SHALL BE AT EVERY P.C. & P.T. OF CURVATURE, 5 FT EACH SIDE OF STRUCTURES, AND AT END OF POURS.
 5. PREFORMED EXPANSION JOINT 1/2" THICK SHALL BE PLACED BETWEEN THE SIDEWALK AND ALL STRUCTURES.
 6. EXPANSION JOINTS SHALL ALSO BE PLACED WHERE THE SIDEWALK ABUTS EXISTING SIDEWALKS AND WHERE THE SIDEWALK ABUTS A CURB.
 7. EXPANSION JOINTS SHALL ALSO BE PLACED WHERE THE CURB ABUTS EXISTING CURB.

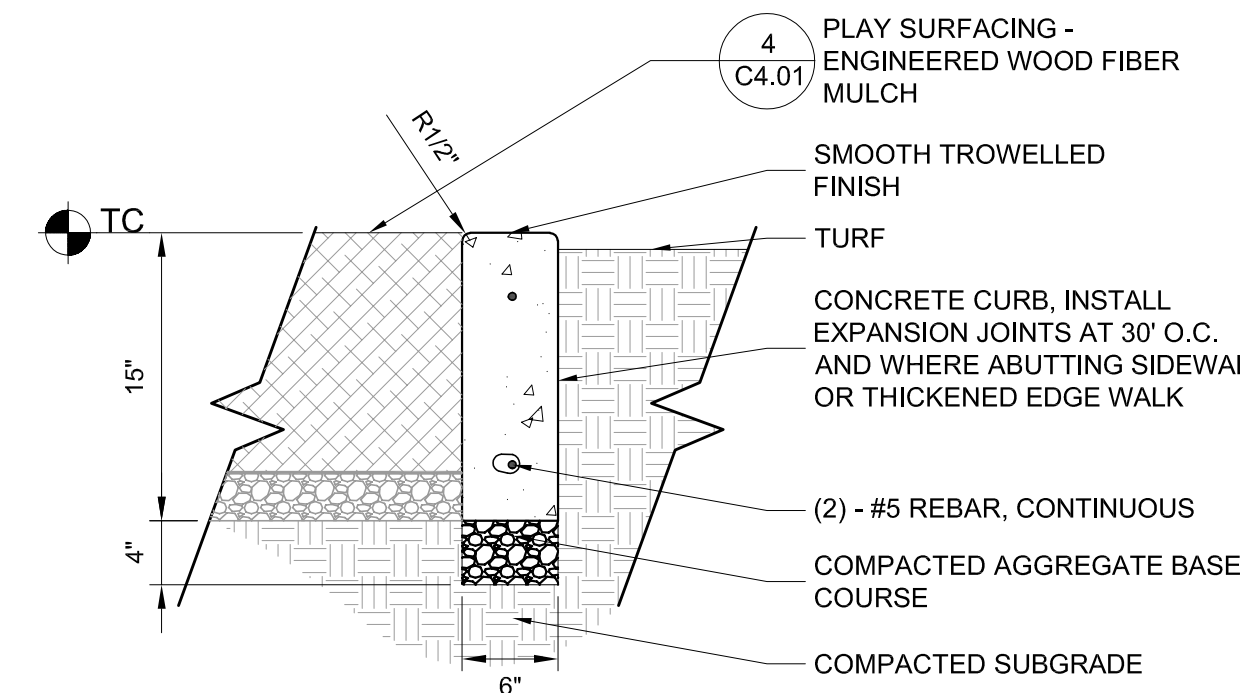
5 EXPANSION JOINT
 SCALE: 3"=1'-0"



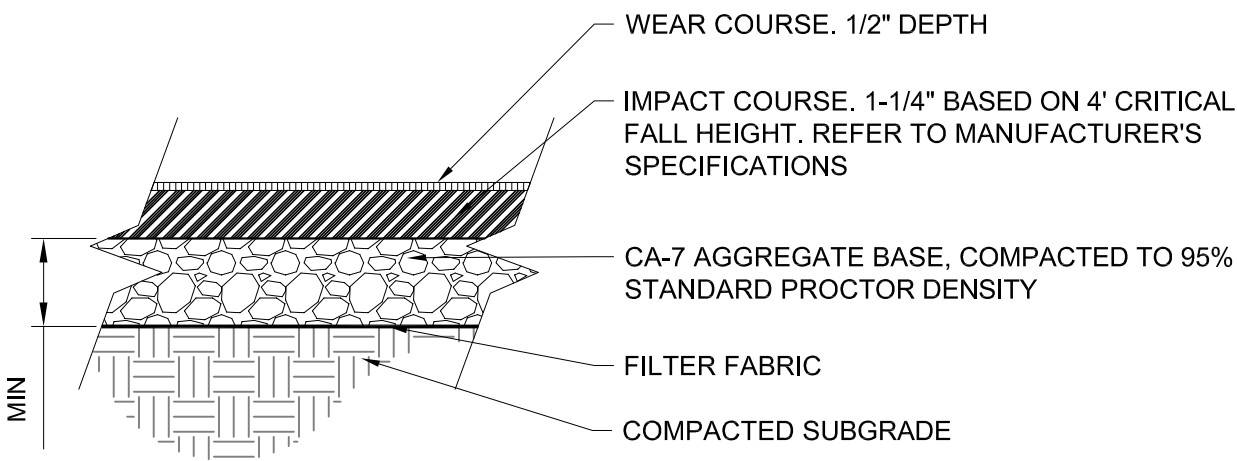
6 PLAY STRUCTURE FOOTING
 SCALE: 1"=1'-0"



8 THICKENED EDGE CURB
 SCALE: 1"=1'-0"

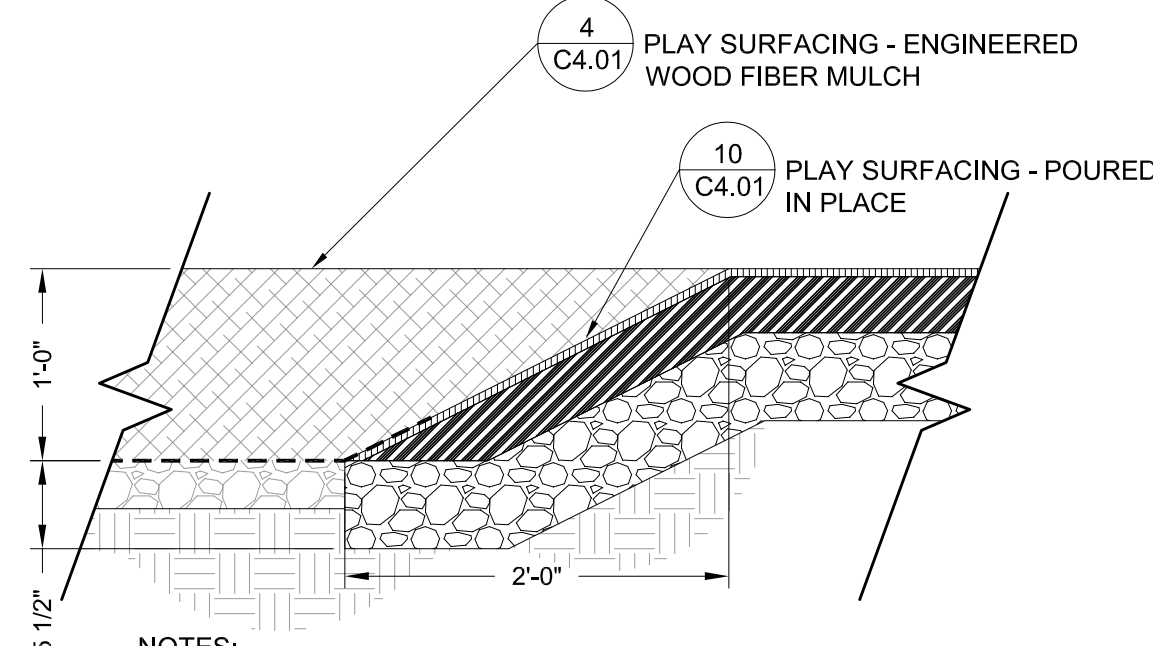


9 PLAYGROUND CURB
 SCALE: 1"=1'-0"



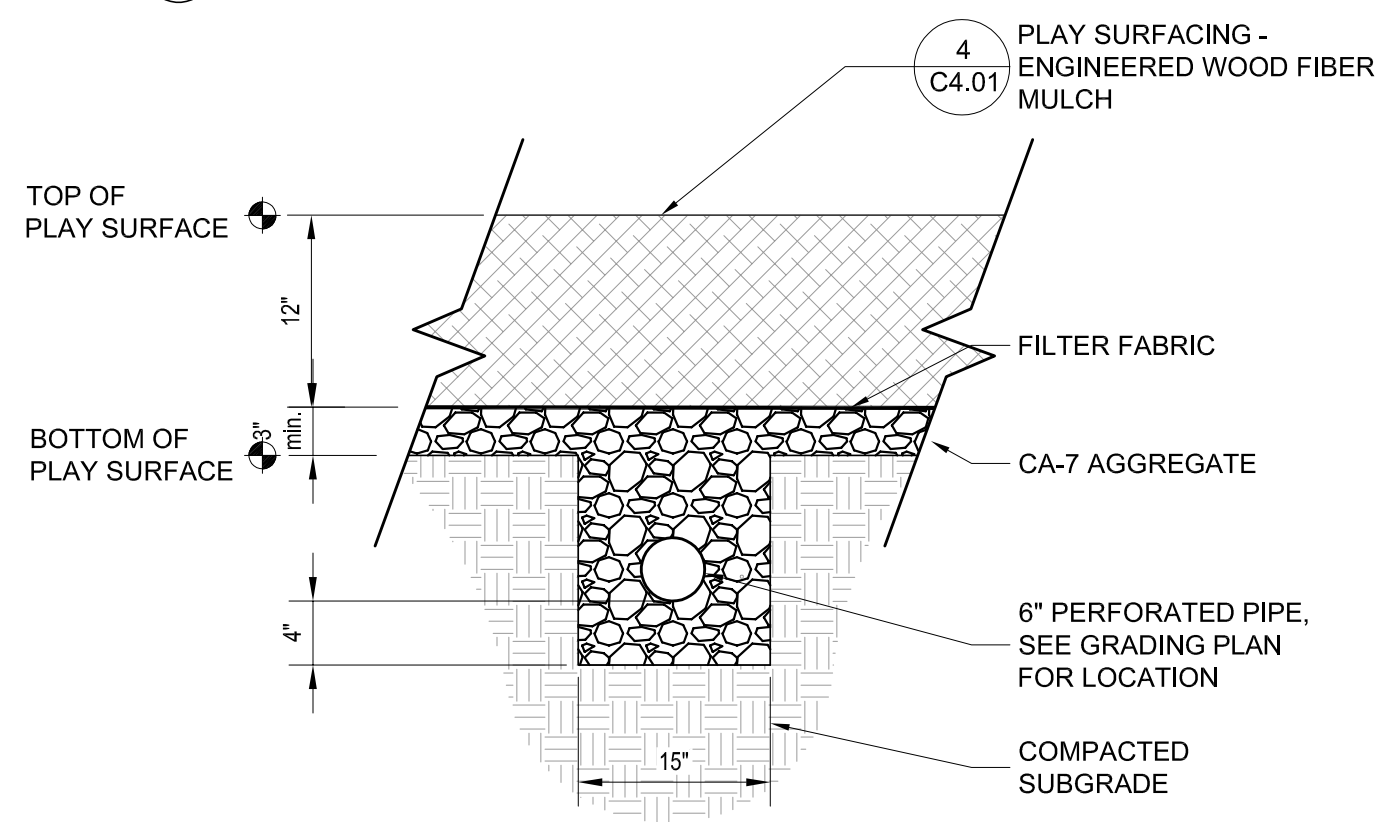
NOTE:
 1. CONTRACTOR RESPONSIBLE FOR SUBGRADE, FILTER FABRIC AND PREPARED AGG. BASE. P.I.P. RUBBER COURSES BY OTHERS.
 2. SUBGRADE PITCHED AT 1.0% MIN TOWARD UNDERDRAIN. SEE GRADING PLAN
 3. REFER TO MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION

10 PLAY SURFACING - POURED IN PLACE
 SCALE: 1"=1'-0"

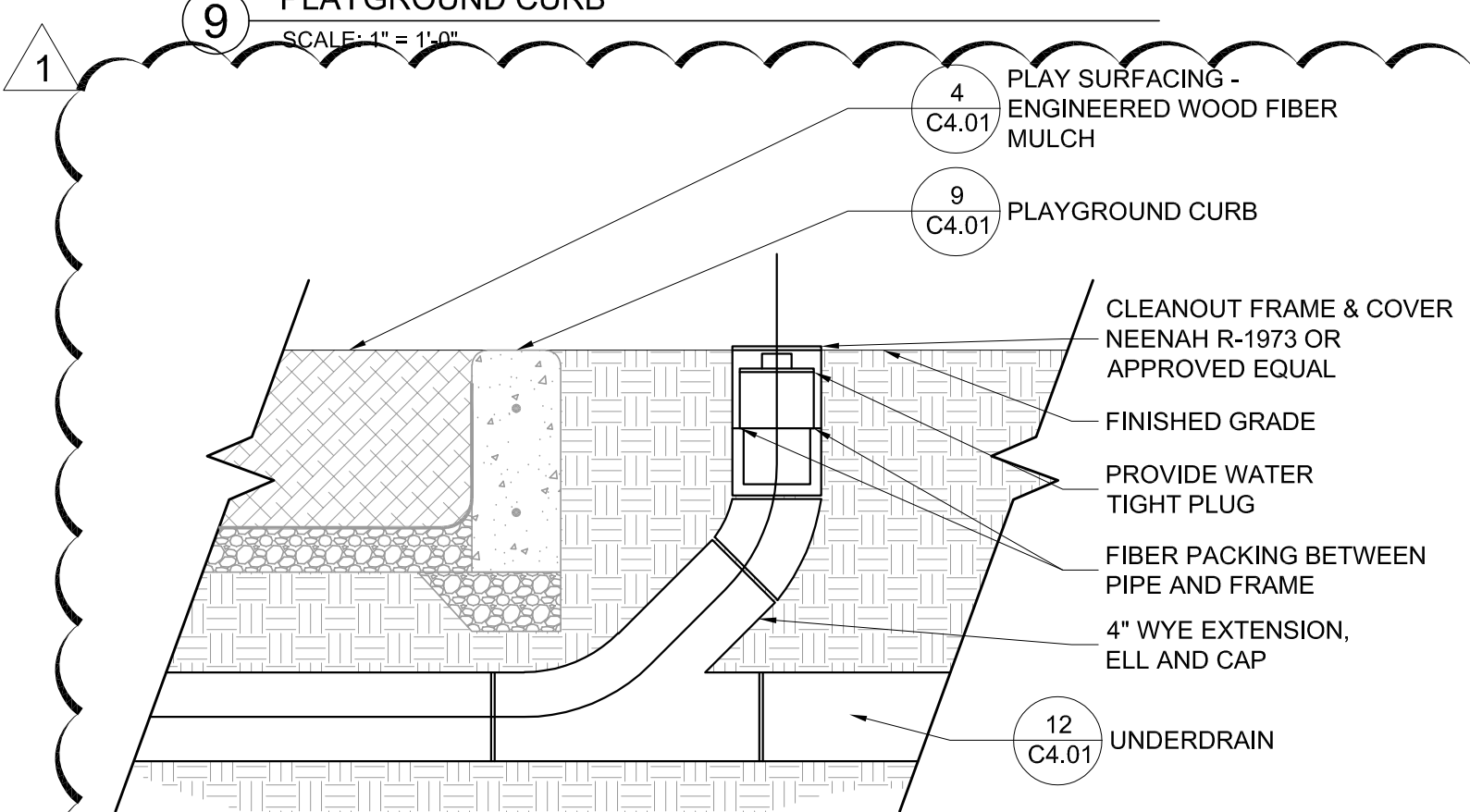


NOTES:
 1. INSTALL SAFETY SURFACE PER MANUFACTURER'S SPECIFICATIONS
 2. TOP OF PLAY SURFACING TO BE FLUSH WITH FINISH GRADE OF P.I.P. SURFACE.

11 PLAY SURFACING - POURED IN PLACE TRANSITION
 SCALE: 1"=1'-0"



12 UNDERDRAIN - PLAYGROUND
 SCALE: 1"=1'-0"



13 CLEANOUT
 SCALE: 1"=1'-0"



DOWNERS GROVE GRADE SD58

Wight

Wight & Company
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REV	DESCRIPTION	DATE
ADDENDUM 1		02-27-23
	ISSUED FOR BID	02-16-23
	ISSUED FOR PERMIT	01-26-23

**KINGSLEY
 ELEMENTARY SCHOOL
 PLAYGROUND**

6509 Powell Street
 Downers Grove, IL 60516

DETAILS

Project Number: 200034
 Drawn By: LB
 Sheet: _____

C4.01