

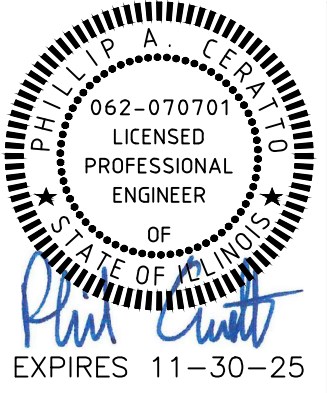
# VIEWS OF NAPERVILLE CLUBHOUSE SITE IMPROVEMENT PLANS

## 701 ROYAL SAINT GEORGE DRIVE, NAPERVILLE, ILLINOIS

### SECTION 13 TOWNSHIP 38 NORTH RANGE 9 EAST NAPERVILLE, ILLINOIS DuPAGE COUNTY

SITE COVERAGE SUMMARY (STORMWATER MANAGEMENT)			
Development Area	Area (sf)		
	Existing Conditions	Proposed Conditions	Change
Impervious	32,673	34,813	2,140
Permeable	0	3,350	3,350
Pervious	35,451	29,961	-5,490
Subtotal	68,124	68,124	0

\*Net New Impervious" = 2,140 S.F. < 2,500 S.F.  
∴ PCBMPs Not Required

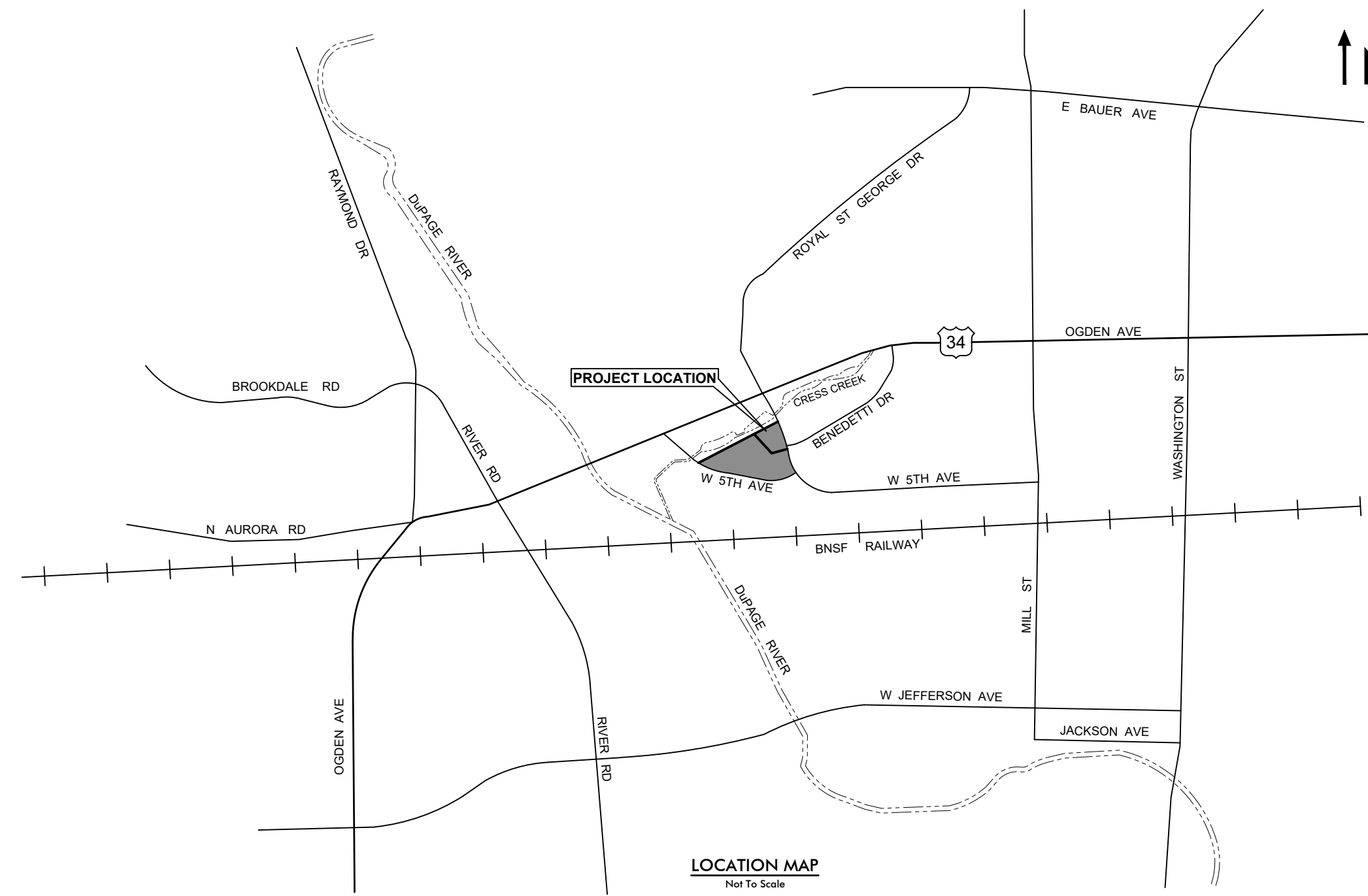


**ARCHITECT:**  
Maemar P.C.  
3996 Orchard Lane  
Long Grove, IL 60047  
Tel: 847-550-9805  
Fax: 847-550-9815  
www.maemarp.com

**OWNER:**  
Views of Naperville  
701 Royal Saint George Drive  
Naperville, IL 60563  
Tel: 630-796-7720

**PREPARED BY:**  
Haeger Engineering LLC  
Illinois Prof. Design Firm #184-003152  
100 E. State Parkway  
Schaumburg, IL 60173  
Tel: 847-394-6600  
Fax: 847-394-6608  
www.haegerengineering.com

**CITY OF NAPERVILLE**  
400 S. Eagle Street  
Naperville, IL 60540  
Tel: 630-420-6111



**BENCHMARKS:**

**City of Naperville Benchmark:**  
Station No. 1506 on the northeast corner of 5th Avenue and Mill Street  
Elevation = 690.61 NAVD 88

**Site Benchmark**

CP # 2279 (see survey)  
Description: SW Bolt on Hydrant  
Elevation: 692.88 NAVD 88 (Geoid 12A)

CP # 601 (see survey)  
Description: MAG Nail  
Elevation: 701.12 NAVD 88 (Geoid 12A)

CP # 604 (see survey)  
Description: MAG Nail  
Elevation: 700.96 NAVD 88 (Geoid 12A)

CP # 605 (see survey)  
Description: MAG Nail  
Elevation: 693.82 NAVD 88 (Geoid 12A)

INDEX TO SHEETS	
NO.	DESCRIPTION
C1.0	TITLE SHEET
C2.0	GENERAL NOTES & SPECIFICATIONS
C2.1	GENERAL NOTES & SPECIFICATIONS
C3.0	EXISTING CONDITIONS PLAN
C4.0	DEMOLITION PLAN
C5.0	GEOMETRY PLAN
C6.0	UTILITY PLAN
C7.0	GRADING PLAN
C8.0	STANDARD DETAILS
C8.1	STANDARD DETAILS
C8.2	STANDARD DETAILS

INDEX TO STORM WATER POLLUTION PREVENTION PLAN SHEETS	
NO.	DESCRIPTION
EC1.0	SWPPP TITLE SHEET
EC2.0	SWPPP GENERAL NOTES & SPECIFICATIONS
EC3.0	SWPPP TYPICAL DETAILS
EC4.0	STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

Existing Symbol	Description	Proposed Symbol
	Storm Sewer Manhole	
	Catch Basin	
	Inlet	
	Flared End Section	
	Headwall	
	Area Drain	
	Sanitary Sewer Manhole	
	Clean Out	
	Storm Sewer	
	Storm Sewer Service	
	Perforated Underdrain	
	Sanitary Sewer	
	Sanitary Sewer Service	
	Combined Sewer	
	Force Main	
	Water Main	
	Water Main Service	
	Fire Hydrant	
	Valve Vault	
	Valve Box	
	B-Box	
	Well Head	
	Light Pole	
	Light Pole With Mast Arm	
	Traffic Signal	
	Traffic Signal With Mast Arm	
	Hand Hole	
	Fence	
	Guardrail	
	Pipe Bollard	
	Sign	
	Gas Valve	
	Gas Line	
	Electric Line	
	Overhead Utility Line	
	Fiber Optic Line	
	Electrical Pedestal	
	Electric Manhole	
	Guy Wire	
	Utility Pole	
	Telephone Pedestal	
	Telephone Manhole	
	Telephone Line	
	Cable TV Line	
	Cable TV Pedestal	
	Flagpole	
	Mailbox	
	Handicapped Parking Stall	
	Number of Parking Stalls	
	Curb & Gutter	
	Reverse Pitch Curb & Gutter	
	Depressed Curb	
	Retaining Wall	
	Curb Elevation and Gutter/Pavement Elevation	
	Pavement Elevation	
	Sidewalk Elevation	
	Ground Elevation	
	Top of Wall Elevation	
	Bottom of Wall Elevation	
	Open Lid Frame & Grate	
	Closed Lid Frame & Lid	
	Garage Floor	
	Top of Foundation	
	Swale	
	Hardscape Flow	
	Softscape Flow	
	Contour Line	
	Wetland	
	Wetland Buffer	
	Normal Water Level	
	High Water Level	
	Flood Plain	
	Flood Way	
	Deciduous Tree	
	Coniferous Tree	
	Bush	
	Brushline	
	Soil Boring	
	Over Land Flow Route	
	Recommended Garage Hand With Driveway Slope	

No.	Date	Revision
1	05/02/2024	REVISED PER CITY REVIEW

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**TITLE SHEET**  
**VIEWS OF NAPERVILLE CLUBHOUSE**  
**SITE IMPROVEMENT PLANS**  
701 ROYAL SAINT GEORGE DRIVE, NAPERVILLE, ILLINOIS

Project Manager: P A C  
Engineer: C J B  
Date: 03/22/2024  
Project No. 22-028  
Sheet **C1.0** / C8



Know what's below.  
Call before you dig.

Note:  
Call 811 at least 48 hours, excluding weekends and holidays, before you dig.

GENERAL NOTES

- 1. Definition of Terms:
a. 'Owner' shall mean the person or entity with which Haeger Engineering, LLC has been contracted with to prepare the Plans and Specifications.
b. 'Engineer' shall mean Haeger Engineering, LLC.
c. 'Contractor' shall mean the persons or entities responsible for performing and constructing the work...
2. The Specifications governing this project are as follows:
a. All applicable Village/City and other applicable Jurisdictional Agency Ordinances, Codes, Regulations, Requirements, Policies, Specifications, Standards, etc.
3. In some instances, the existing utilities are shown on the Plans according to information obtained from the utility companies...

- 15. Before doing any work which will damage, disturb or leave unsupported, or unprotected any utility lines or related apparatuses encountered, the Contractor shall notify the respective Owner thereof, who will make all arrangements for relocating related apparatuses...
16. No extra compensation will be allowed by the Contractor for any expense incurred for complying with all of these aforementioned utility coordination and cooperation requirements...
17. Prior to commencing work, the Contractor is to field check and verify all critical locations, elevations, materials, sizes, dimensions, and conditions affecting the work...
18. The Contractor shall maintain proper drainage at all times during construction...
19. Prior to commencement of construction of any site, the Contractor shall obtain a copy of the notice of coverage letter and the IEPA National Pollution Discharge Elimination System (NPDES) General Permit ILR10 from the Owner...
20. No construction activities, disturbance or fill shall occur within the limits of natural resources such as wetlands, floodplains, creeks, streams, ponds, lakes, basins, reservoirs, etc...
21. The Contractor shall confine their activities to within the project boundaries, work areas, or easements specified...
22. The Contractor is responsible for returning all areas affected by equipment, materials and/or laborers to pre-construction condition...
23. All construction means and methods, techniques, procedures, scheduling, sequencing, and job site safety is the sole responsibility of the Contractor...
24. All proposed grades shown on the Plans shall be considered to be finished grade surface elevations unless noted otherwise...
25. Construction staking/layout shall be provided by the Contractor and shall be included in the Contract...
26. All construction means and methods, techniques, procedures, scheduling, sequencing, and job site safety is the sole responsibility of the Contractor...
27. The Contractor shall observe and comply with all the Occupational Safety and Health Administration (OSHA) standards, rules and regulations, as well as any other applicable local, state and federal safety requirements...
28. All trench shoring, bracing and construction work performed shall be in accordance with the Occupational Safety and Health Administration (OSHA) standards...
29. The Contractor shall take whatever steps necessary to protect the public from open trenches, excavations, and other site obstructions or hazards...
30. During construction the Contractor and their Sub-Contractors shall keep the premises clean by removing all rubbish, debris, waste material and other accumulations as necessary...
31. The Contractor shall have appropriate equipment and material including street sweepers and end loaders available at all times for use when cleaning up or after the work is completed...
32. The Contractor shall at all times maintain proper dust control at the site and shall have a watering truck readily available during all working hours...
33. Trees not marked for removal shall be protected as necessary by the Contractor...
34. Where overhead power lines, poles, or roots interfere with the required construction activities, said branches, limbs, or roots shall be trimmed or pruned as necessary...
35. The Contractor is responsible for the installation and maintenance of adequate signs, traffic control devices, and warning devices, in accordance with the Plans, applicable DOT Standard Specifications and the MUTCD Standards to inform and protect the public during all phases of construction...
36. Where noted in the Plans, the Contractor shall have Shop Drawings and any other required supporting documentation or calculations prepared and submitted for review and approval prior to any fabrication, placement, or construction...
37. The Contractor is responsible for having a set of approved Plans and Specifications with the latest revision date on the job site at all times during the construction period.

- 38. The Contractor shall maintain a clean, legible, undamaged set of Field Marked Construction Plans. These Field Marked Construction Plans shall show the location of the actual installed location of all underground utilities including related apparatuses (sanitary, storm, water, service stubs, gas, telephone, electric, cable TV, etc.)...
39. All work that is performed that is not in conformity with the Plans, Specifications or other Contract Documents or that is defective shall be removed and replaced...
40. All excavations or abatements of existing structures, Specifications or other Contract Documents shall be guaranteed against all excess in materials and workmanship of whatever nature by the Contractor and his surety for a minimum period of 12 months from the date of final acceptance of the work...
41. If required, the Owner shall have As-built or Record Drawings prepared and submitted to the Village/City and all other applicable Jurisdictional Agencies for approval...
42. If required, the Owner shall have As-built or Record Drawings prepared and submitted to the Village/City and all other applicable Jurisdictional Agencies for approval...
CITY OF NAPERVILLE GENERAL NOTES
1. The owner or their representative is responsible to obtain any and all permits required by applicable governmental agencies.
2. All work shall be performed in accordance with the City of Naperville design manual and standard specifications...
3. All contractors doing work in the public right-of-way must be licensed...
4. The contractor/developer assumes all responsibility and liability for any action resulting from their work within the public right-of-way.
5. The contractor/developer shall indemnify and hold harmless the City of Naperville...
6. Prior to commencement of any off-site construction, the contractor shall secure written authorization that all off-site easements have been secured...
7. The contractor and their on-site representatives will be required to attend a preconstruction meeting...
8. A minimum of 48 hours notice shall be given to the City of Naperville TED business group...
9. It shall be the contractor's responsibility to adequately identify and locate all existing utilities prior to excavation...
10. All areas to be excavated or disturbed shall be inspected with the City of Naperville by calling (630) 420-6100...
11. Record drawings are required to be submitted and approved by the City of Naperville prior to final occupancy being granted...
12. Final acceptance of public improvements shall be granted only after a final inspection has been completed...
DEMOLITION AND CLEARING
1. The Contractor shall perform all demolition, clearing, grubbing, and tree removal and protection work in accordance with all applicable Federal, State, County and Local requirements...
2. Prior to the commencement of any demolition or clearing activities, the Owner or Contractor shall obtain any applicable permits to disconnect the existing utility services...
3. The Contractor shall coordinate all demolition work with the Village/City, utility companies, and other Jurisdictional Agencies...
4. Clearing shall consist of the removal and legal disposal of all obstructions such as trees, hedges, fences, walls, accumulations of rubbish of whatever nature, and all logs, shrubs, brush, grass, weeds, and other vegetation and stumps...
5. All existing trenches for the proposed sanitary sewer, storm sewer, water main and services lying under the Plans shall be protected in accordance with section 220 of the 'Illinois Water Main Construction Code'...
6. All existing buildings services serving buildings that are to be removed shall be disconnected and removed as required by the applicable Jurisdictional Agency...
7. All existing walls shown on the Plans to be abandoned or that are discovered during the course of construction shall be exposed and cut-off three (3) feet below the proposed finished grade...
8. All structures including but not limited to frames and lids or grates, cleanouts, b-boxes, etc. shall be adjusted as necessary by the Contractor...
9. All existing septic tanks, grease traps or similar shown on the Plans to be abandoned or that are discovered during the course of construction shall have all liquids and solids removed...
10. The Contractor shall mark the locations of the ends of the service stubs with '4x4' wood posts...
11. All structures including but not limited to frames and lids or grates, cleanouts, b-boxes, etc. shall be adjusted as necessary by the Contractor...
12. All sanitary sewers, storm sewers, water mains as well as their services and other related apparatuses shall be thoroughly cleaned...
13. Any material containing asbestos or other hazardous materials found within existing structures or other items shown to be removed in order to construct the proposed improvements shall be removed from the site and legally disposed of off-site...
14. All fire access lanes or routes located within the existing project area shall remain in service...
15. There shall be no overhead power lines, poles, or roots interfere with the required construction activities...
16. It shall be the responsibility of the Contractor to legally remove from the site any and all materials and debris which results from their demolition or clearing operations...
EARTHWORK AND GRADING
1. All earthwork and grading activities shall be performed in accordance with the IDOT Standard Specifications or as noted in the Plans...
2. Any earthwork quantities, calculations, summaries that have been furnished by the Engineer are for information purposes only and are provided without any guarantee by the Owner or Engineer whatsoever as to their sufficiency or accuracy...
SANTITARY SEWER
1. All sanitary sewer piping shall be PVC pipe meeting the requirements of ASTM D-2241 with joints conforming to ASTM D-3139...
2. Any sanitary sewer fittings shall be PVC meeting the following requirements: 4" to 12" shall be Injection Molded Fittings meeting ASTM D-2241...

- 3. The soil boring reports for the subject property can be obtained from the Owner...
4. Erosion control silt fence, stabilized construction entrance, inlet protection, etc. shall be installed by the Contractor...
5. All earthwork and grading operations are to be supervised and inspected by a qualified Geotechnical/Soils Engineer...
6. Qualified Geotechnical/Soils Engineer or other designated representative shall observe the construction of the retention and detention areas...
7. Topsoil stripping or excavation shall initially consist of the removal of the uppermost layers of organic soil and stockpiling at a location shown on the Plans...
8. Stripping of vegetation or ground cover, grading, or other soil disturbance activities shall be done in a manner which will minimize soil erosion...
9. The Contractor shall take precautionary measures to minimize earthwork and other activities in the areas where trees are to be saved or protected...
10. Erosion control measures and silt fencing prior to construction shall be placed prior to embankment placement and compaction...
11. Topsoil spread shall consist of placing a minimum of a four (4) inch layer of topsoil or depth indicated on the Plans over the disturbed ungraded areas...
12. Sod shall be placed on all disturbed areas within the right-of-way and at other locations indicated on the Plans...
13. Refer to the Landscapes Plans prepared by Others for additional information on the landscaping and ground cover requirements...
14. Completed subgrade grading and final finished grading for all proposed improvements shall be within a tolerance of plus or minus one-tenth (0.1) foot of the design elevation...
15. Smooth transitions between proposed grades and smooth vertical curves/transitions through all high and low points...
16. The subgrade for the proposed streets and other pavement areas shall be proof-rolled by the Contractor...
17. It shall be the responsibility of the Contractor to legally remove from the site any and all materials and debris which results from their construction operations...
SEWER AND WATER MAIN GENERAL NOTES
1. All sanitary sewers, storm sewers and water mains as well as their services and other related apparatuses shall be constructed and tested in accordance with the 'Standard Specifications for Water and Sewer Construction in Illinois'...
2. Rough grading shall be within one (1) foot of finished subgrade elevation shall be completed prior to pre-construction condition...
3. Trench excavation, bedding and backfill, and compaction for sanitary sewers, storm sewers, water mains as well as their services and other related apparatuses shall be in accordance with applicable Trench Section Details...
4. When in the opinion of the Geotechnical/Soils Engineer, unsuitable soil conditions are encountered under the Plans, the contractor shall be required to remove the unsuitable material below the depth of the bedding specified...
5. Utility trenches for the proposed sanitary sewer, storm sewer, water main and services lying under the Plans shall be protected in accordance with section 220 of the 'Illinois Water Main Construction Code'...
6. The Contractor shall be responsible for dewatering any excavation for the installation of sanitary sewers, storm sewers, water mains as well as their services and other related apparatuses...
7. Connections to an existing sewer main shall be to an existing service stub, yue, tee, or manhole where possible...
8. When a trench is removed under any proposed bedding, pavement walk, or other structural areas or within zones of influence thereof shall be properly backfilled with suitable backfill material and/or compacted as necessary by the Contractor...
9. 'Band-Seal' or similar flexible tube couplings shall be used in the connection of sewer pipe of dissimilar materials...
10. The Contractor shall mark the locations of the ends of the service stubs with '4x4' wood posts...
11. All structures including but not limited to frames and lids or grates, cleanouts, b-boxes, etc. shall be adjusted as necessary by the Contractor...
12. All sanitary sewers, storm sewers, water mains as well as their services and other related apparatuses shall be thoroughly cleaned...
13. Any material containing asbestos or other hazardous materials found within existing structures or other items shown to be removed in order to construct the proposed improvements shall be removed from the site and legally disposed of off-site...
14. The cost of the cleaning, televising, and testing shall be considered incidental to the Contract...
15. All deficiencies and defects observed as well as any necessary corrective work required as the result of testing or television inspection shall be performed by the Contractor at no additional cost to the Owner...
16. Refer to Sanitary Sewer, Storm Sewer, Water Main and Water Main Protection Requirements for additional requirements...
SANTITARY SEWER
1. All sanitary sewer piping shall be PVC pipe meeting the requirements of ASTM D-2241 with joints conforming to ASTM D-3139...
2. Any sanitary sewer fittings shall be PVC meeting the following requirements: 4" to 12" shall be Injection Molded Fittings meeting ASTM D-2241...

- CITY OF NAPERVILLE DEPARTMENT OF PUBLIC UTILITIES - WATER UTILITIES GENERAL NOTES:
1. New water main valves, including pressure tap valves, adjacent to an existing water main, and existing water main valves shall only be operated by the City of Naperville...
2. Any existing utility structures requiring adjustment or reconstruction shall be completed by the contractor to the satisfaction of the utility owner...
3. Trees shall be installed a minimum of five (5) feet horizontally from underground electrical feeders, sanitary sewers, sanitary services, water mains, and water services...
4. All retainer glands when required to restrain valves, fittings, hydrants, and pipe joints shall be mechanical joint wedge action type MEGALUG 1100 Series...
5. Existing ductile iron systems for restraining push-on pipe bells shall be MEGALUG SERIES 1100HD or FORD SERIES 1390...
6. Existing ductile iron systems requiring restraint shall be MEGALUG SERIES 1100SD (split MEGALUG) for mechanical joints...
7. Ductile iron water main to be Class 52...
8. A set of as-built record drawing shall be given to the City of Naperville upon completion of improvements showing the elevation and location...
9. All sanitary sewer piping shall be PVC pipe meeting the requirements of ASTM D-2241 with joints conforming to ASTM D-3139...
10. The valves less than 16" shall be standard pattern, gate valves and shall have the name or mark of the manufacturer, size and working pressure plainly cast in raised letters...
11. Stainless steel nuts, bolts-T-bolts, and washers, Type 304 or better, will be required on all water main installations...
12. The contractor shall rotate and/or adjust any existing and/or new hydrant to the satisfaction of the Department of Public Utilities...
13. Water main cover piping shall be replaced to a hydrostatic/leakage test in accordance with Naperville Standard Specifications...
14. The City of Naperville Public Utilities does not require that any valve or fitting in the existing water distribution system will hold against a hydrostatic/leakage test...
15. Fire hydrant should be bagged 'NOT IN SERVICE' until all testing and disinfection has been completed...
16. Sanitary sewer and water shall be constructed, tested, and placed into service in accordance with City of Naperville Standard Specification and Specifications for Water and Sewer Main Construction...
17. All valve boxes, vaults, hydrants, and manholes shall not be covered with construction debris and shall remain accessible to the respective utility company...
18. Water service line smaller than 3" shall be type K Copper...
19. All sanitary manholes shall be tested for leakage by vacuum testing...
20. The contractor shall provide internal televised inspection of all installed sanitary sewer, laterals, manholes and connections to the public system...
21. Contractor work hours are only allowed from 7:00 a.m. to 5:00 p.m., Monday through Saturday...
22. Sanitary pipes with less than 4 feet or more than 25 feet of cover shall be constructed of ductile iron piping...
23. All excavations more than 20 feet deep must be protected by a system designed by a registered professional engineer...
24. Contractor shall maintain 2' minimum clearance between existing utilities and new foundations and underground facilities...
25. Fences shall be installed a minimum of 5 feet from any water or sanitary mains when running parallel with them...
26. All brass components shall be certified in compliance with NSF 61 and NSF 372 and identified with applicable markings...
27. Sanitary Force Main - Force main shall be tested a minimum of 1 hour at 1.5 the shut off head of the pump, 2.5 times the operating pressure, or 20 psi whichever is greatest...
28. Sanitary Force Main - Force main shall be tested a minimum of 1 hour at 1.5 the shut off head of the pump, 2.5 times the operating pressure, or 20 psi whichever is greatest...

HAEGER ENGINEERING CONSULTING ENGINEERS & SURVEYORS
100 East Sans Parkway, Schaumburg, IL 60173
847-394-6600
Job Number: #22-028
GENERAL NOTES & SPECIFICATIONS
VIEWS OF NAPERVILLE CLUBHOUSE SITE IMPROVEMENT PLANS
701 ROYAL SAINT GEORGE DRIVE, NAPERVILLE, ILLINOIS
Project Manager: P A C
Engineer: C J B
Date: 03/22/2024
Project No.: 22-028
Sheet: C2.0
No. No. Date Revision



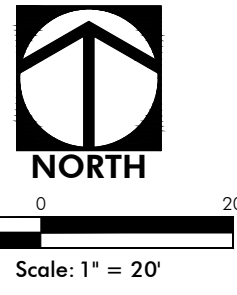
50' WIDE EASEMENT NO. 2 PER DOCUMENT NO. R62-38139

50' WIDE EASEMENT NO. 1 PER DOCUMENT NO. R62-38139

CRESS CREEK

50' WIDE EASEMENT PER DOCUMENT NO. R62-38139

ROYAL ST. GEORGE DRIVE



CP# 605  
MAG Nail  
N: 1863524.1138  
E: 1029695.3144  
Elev.: 693.82

CP# 2279  
SW Bolt on Hydrant  
N: 1863516.9381  
E: 1029802.3992  
Elev.: 692.68

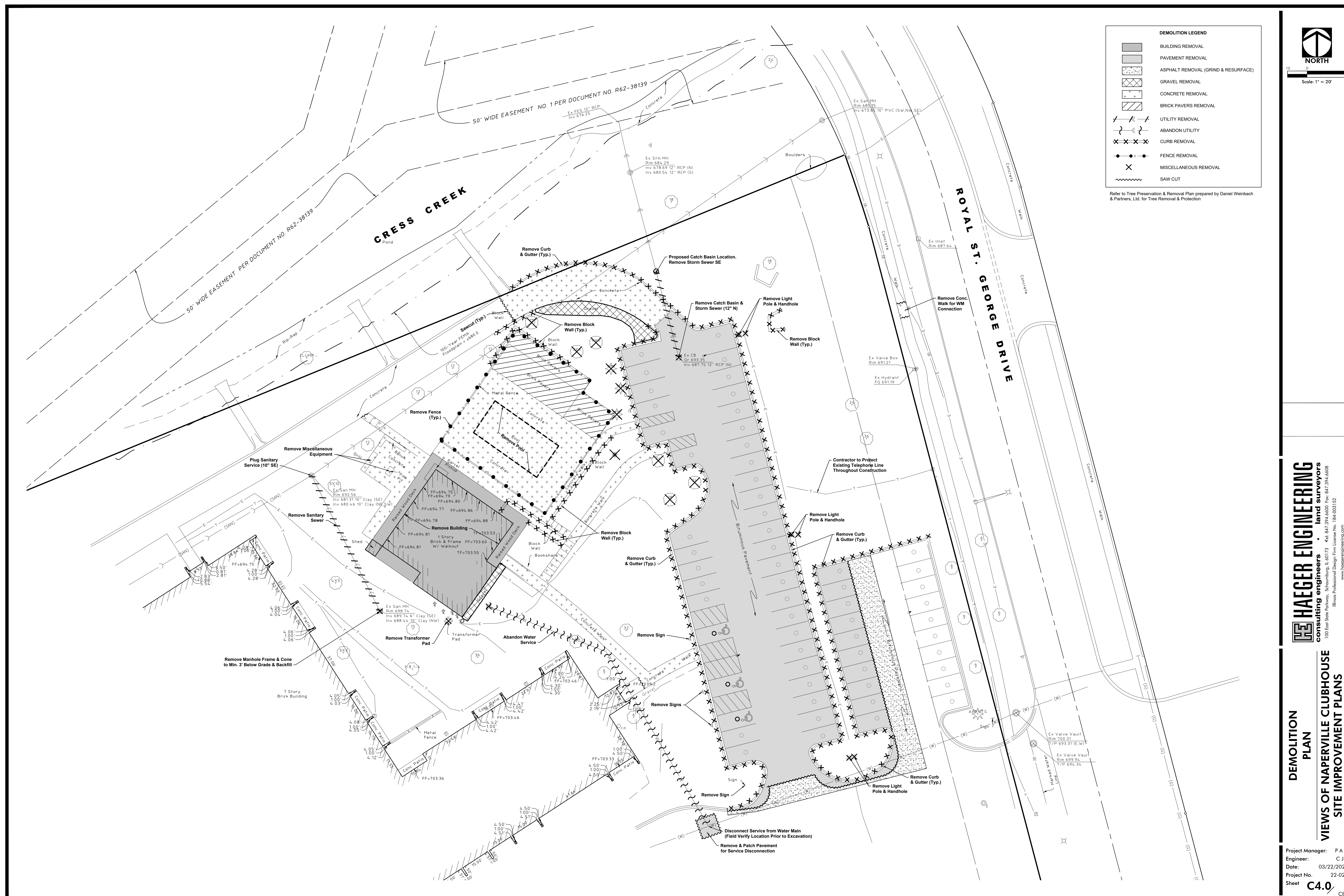
CP# 601  
MAG Nail  
N: 1863393.5354  
E: 1029799.7601  
Elev.: 701.12

CP# 604  
MAG Nail  
N: 1863371.5048  
E: 1029712.4220  
Elev.: 700.96

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**EXISTING CONDITIONS PLAN**  
**VIEWS OF NAPERVILLE CLUBHOUSE**  
**SITE IMPROVEMENT PLANS**  
701 ROYAL SAINT GEORGE DRIVE, NAPERVILLE, ILLINOIS

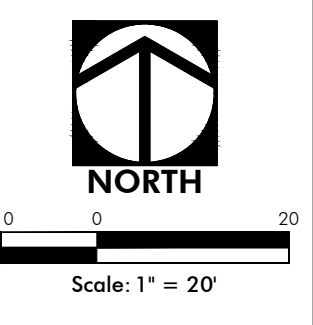
Project Manager: P A C  
Engineer: C J B  
Date: 03/22/2024  
Project No. 22-028  
Sheet **C3.0**



**DEMOLITION LEGEND**

[Solid Grey Box]	BUILDING REMOVAL
[Dotted Box]	PAVEMENT REMOVAL
[Cross-hatched Box]	ASPHALT REMOVAL (GRIND & RESURFACE)
[Diagonal Lines Box]	GRAVEL REMOVAL
[Horizontal Lines Box]	CONCRETE REMOVAL
[Vertical Lines Box]	BRICK PAVERS REMOVAL
[Line with Arrow]	UTILITY REMOVAL
[Line with Circle]	ABANDON UTILITY
[X-Mark]	CURB REMOVAL
[Dashed Line]	FENCE REMOVAL
[X-Mark]	MISCELLANEOUS REMOVAL
[Wavy Line]	SAW CUT

Refer to Tree Preservation & Removal Plan prepared by Daniel Weinbach & Partners, Ltd. for Tree Removal & Protection



**HAEGER ENGINEERING**  
 consulting engineers • land surveyors  
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**DEMOLITION PLAN**  
**VIEWS OF NAPERVILLE CLUBHOUSE**  
**SITE IMPROVEMENT PLANS**  
 701 ROYAL SAINT GEORGE DRIVE, NAPERVILLE, ILLINOIS

Project Manager: P A C  
 Engineer: C J B  
 Date: 03/22/2024  
 Project No. 22-028  
 Sheet **C4.0** of C8



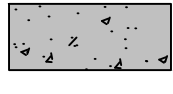
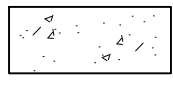
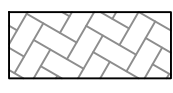


50' WIDE EASEMENT NO. 2 PER DOCUMENT NO. R62-38139

50' WIDE EASEMENT NO. 1 PER DOCUMENT NO. R62-38139

CRESS CREEK Pond

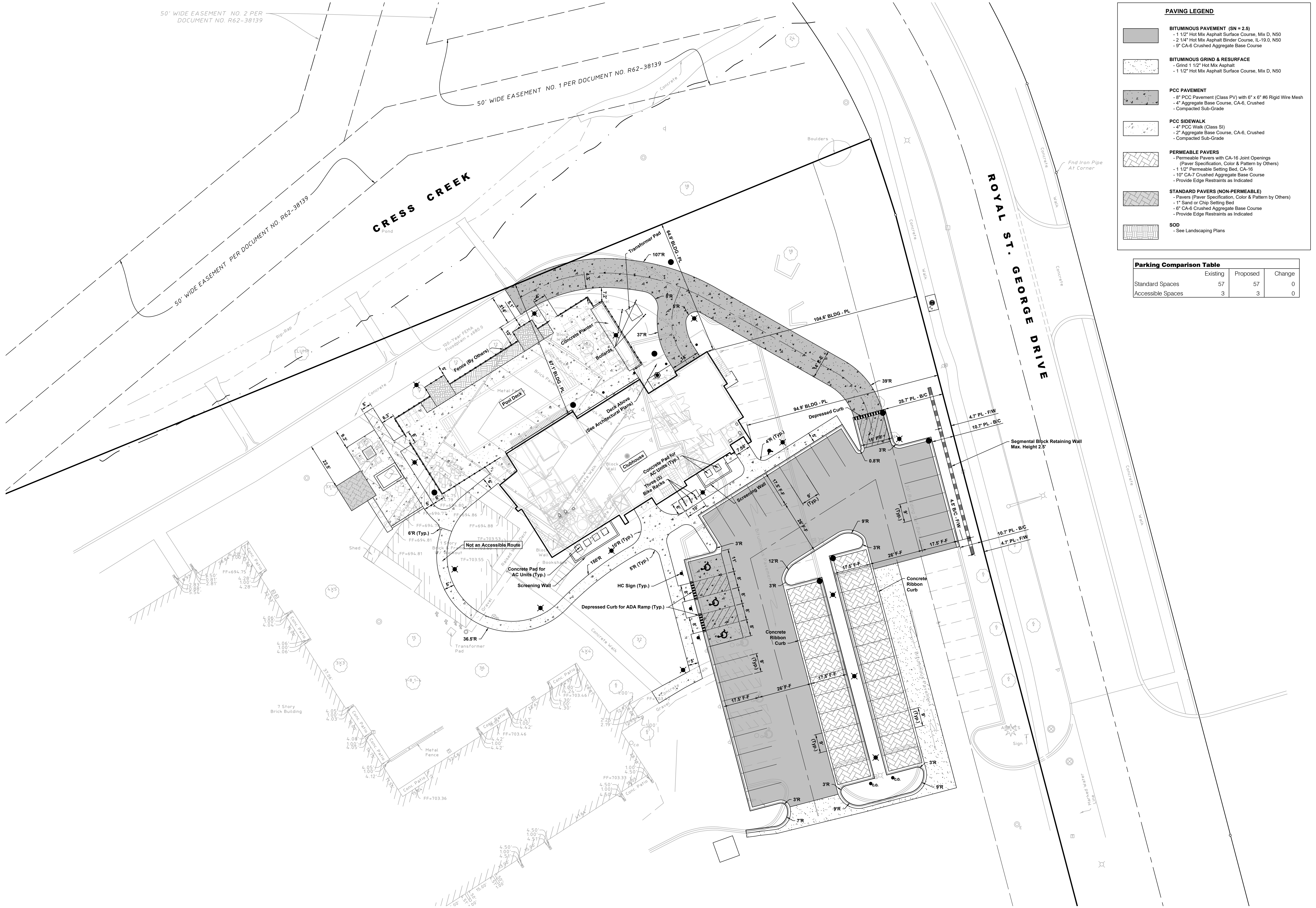
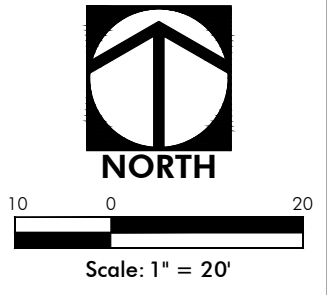
ROYAL ST. GEORGE DRIVE

**PAVING LEGEND**

	<b>BITUMINOUS PAVEMENT (SN = 2.5)</b> - 1 1/2" Hot Mix Asphalt Surface Course, Mix D, N50 - 2 1/4" Hot Mix Asphalt Binder Course, IL-19.0, N50 - 9" CA-6 Crushed Aggregate Base Course
	<b>BITUMINOUS GRIND &amp; RESURFACE</b> - Grind 1 1/2" Hot Mix Asphalt - 1 1/2" Hot Mix Asphalt Surface Course, Mix D, N50
	<b>PCC PAVEMENT</b> - 8" PCC Pavement (Class PV) with 6" x 6" #6 Rigid Wire Mesh - 4" Aggregate Base Course, CA-6, Crushed - Compacted Sub-Grade
	<b>PCC SIDEWALK</b> (Class SI) - 2" Aggregate Base Course, CA-6, Crushed - Compacted Sub-Grade
	<b>PERMEABLE PAVERS</b> - Permeable Pavers with CA-16 Joint Openings (Paver Specification, Color & Pattern by Others) - 1 1/2" Permeable Setting Bed, CA-16 - 10" CA-7 Crushed Aggregate Base Course - Provide Edge Restraints as Indicated
	<b>STANDARD PAVERS (NON-PERMEABLE)</b> - Pavers (Paver Specification, Color & Pattern by Others) - 1" Sand or Chip Setting Bed - 6" CA-6 Crushed Aggregate Base Course - Provide Edge Restraints as Indicated
	<b>SOD</b> - See Landscaping Plans

**Parking Comparison Table**

	Existing	Proposed	Change
Standard Spaces	57	57	0
Accessible Spaces	3	3	0



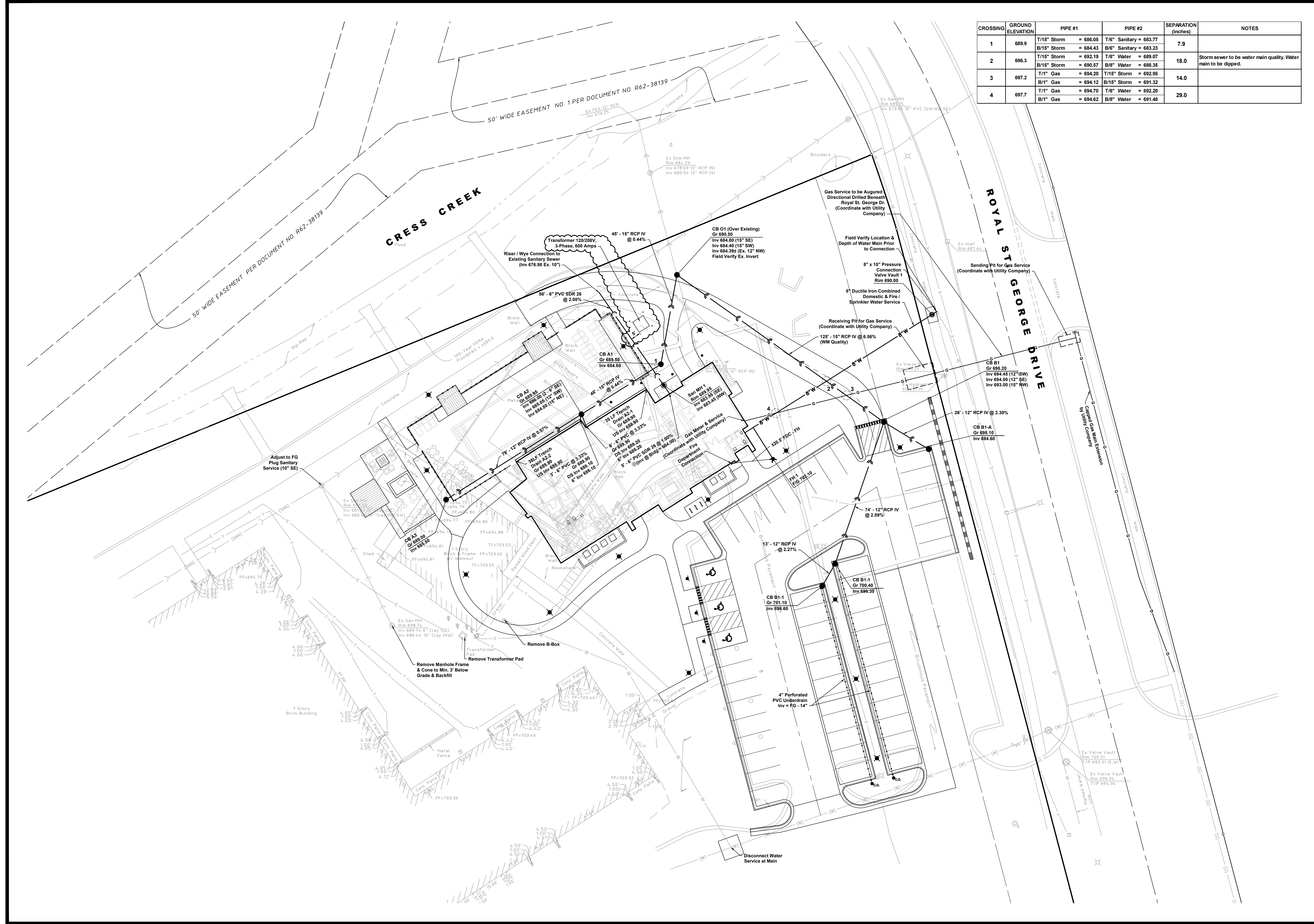
REVISIONS

No.	Date	Revision
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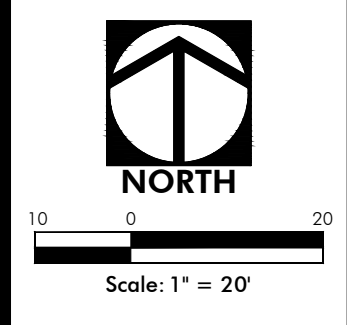
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**GEOMETRY PLAN**  
**VIEWS OF NAPERVILLE CLUBHOUSE**  
**SITE IMPROVEMENT PLANS**  
701 ROYAL SAINT GEORGE DRIVE, NAPERVILLE, ILLINOIS

Project Manager: P A C  
Engineer: C J B  
Date: 03/22/2024  
Project No. 22-028  
Sheet **C5.0** of C8



CROSSING	GROUND ELEVATION	PIPE #1	PIPE #2	SEPARATION (Inches)	NOTES
1	689.9	T/15" Storm = 686.05 B/15" Storm = 684.43	T/6" Sanitary = 683.77 B/6" Sanitary = 683.23	7.9	
2	696.3	T/15" Storm = 692.19 B/15" Storm = 690.57	T/8" Water = 689.07 B/8" Water = 688.35	18.0	Storm sewer to be water main quality. Water main to be dipped.
3	697.2	T/1" Gas = 694.20 B/1" Gas = 694.12	T/15" Storm = 692.95 B/15" Storm = 691.32	14.0	
4	697.7	T/1" Gas = 694.70 B/1" Gas = 694.62	T/8" Water = 692.20 B/8" Water = 691.48	29.0	



No.	Date	Revision
1	05/22/2024	REVISED PER CITY REVIEW

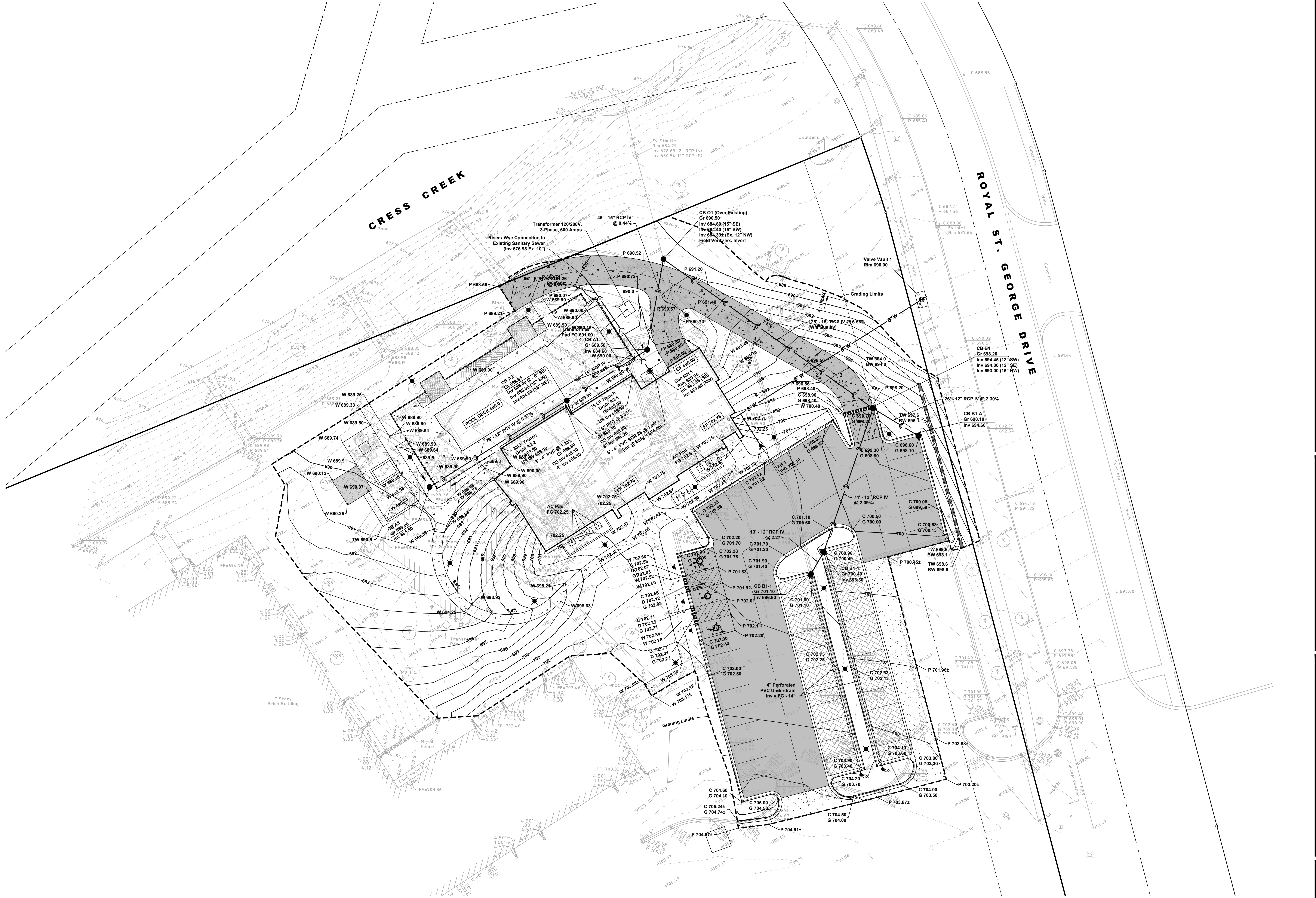
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**UTILITY PLAN**  
**VIEWS OF NAPERVILLE CLUBHOUSE**  
**SITE IMPROVEMENT PLANS**  
 701 ROYAL SAINT GEORGE DRIVE, NAPERVILLE, ILLINOIS

Project Manager: P A C  
 Engineer: C J B  
 Date: 03/22/2024  
 Project No. 22-028  
 Sheet **C6.0** of C8



Scale: 1" = 20'



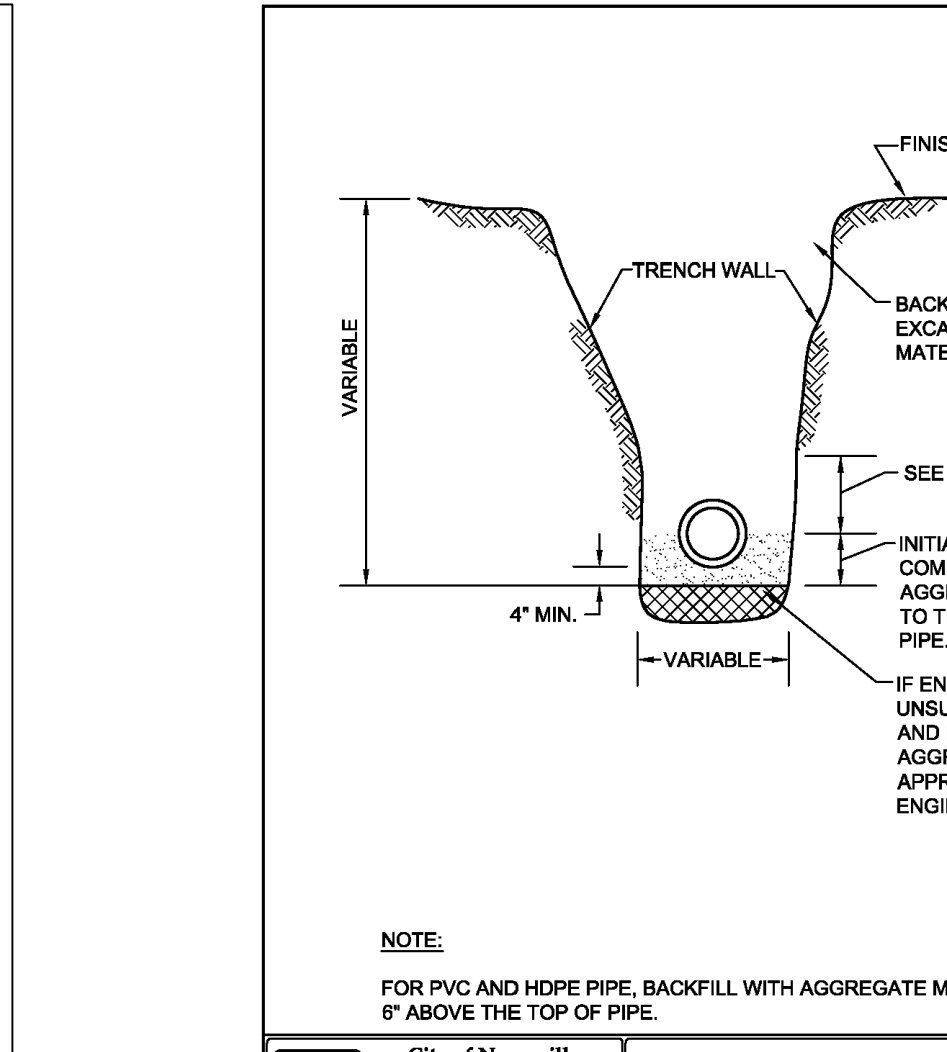
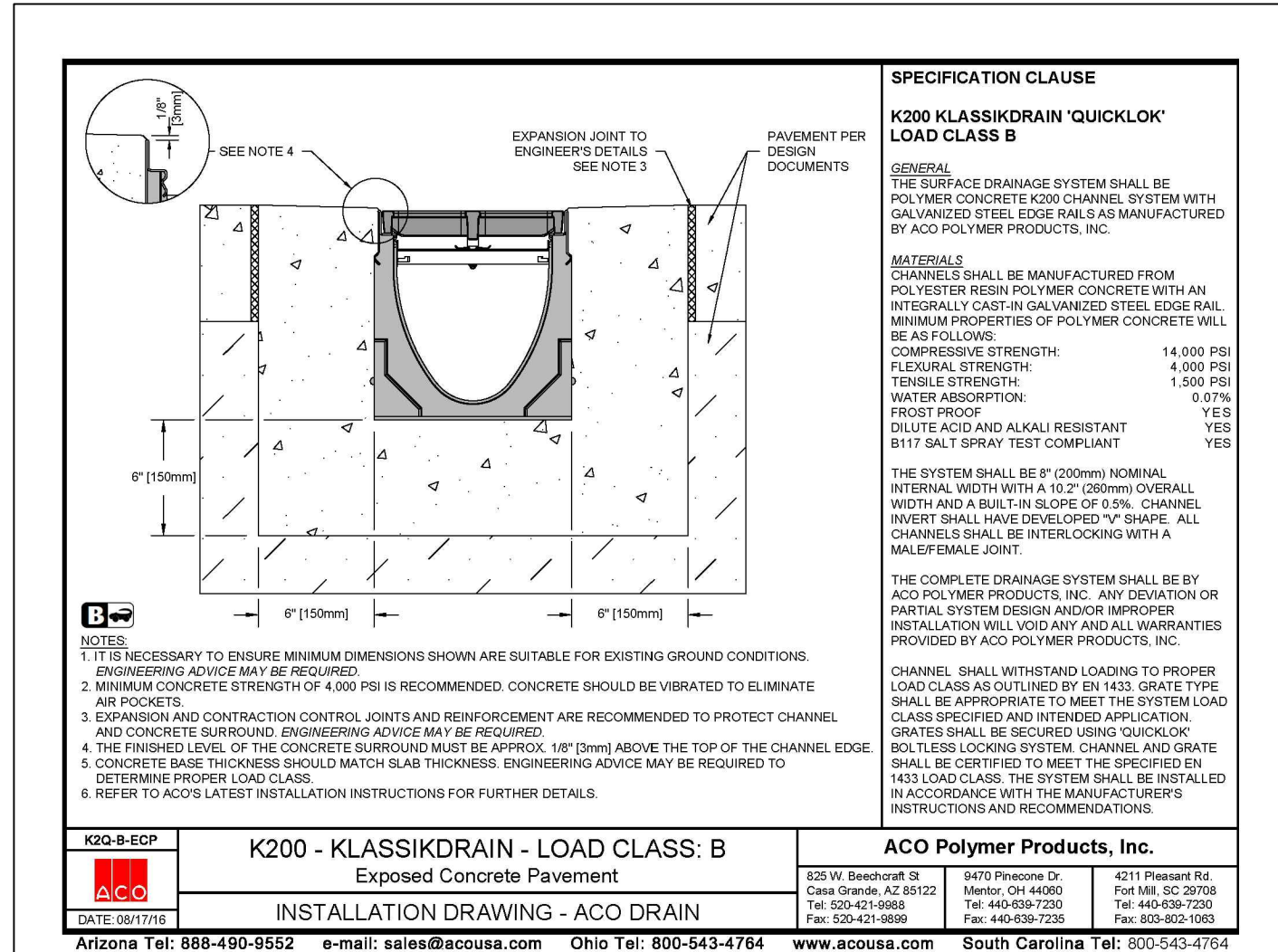
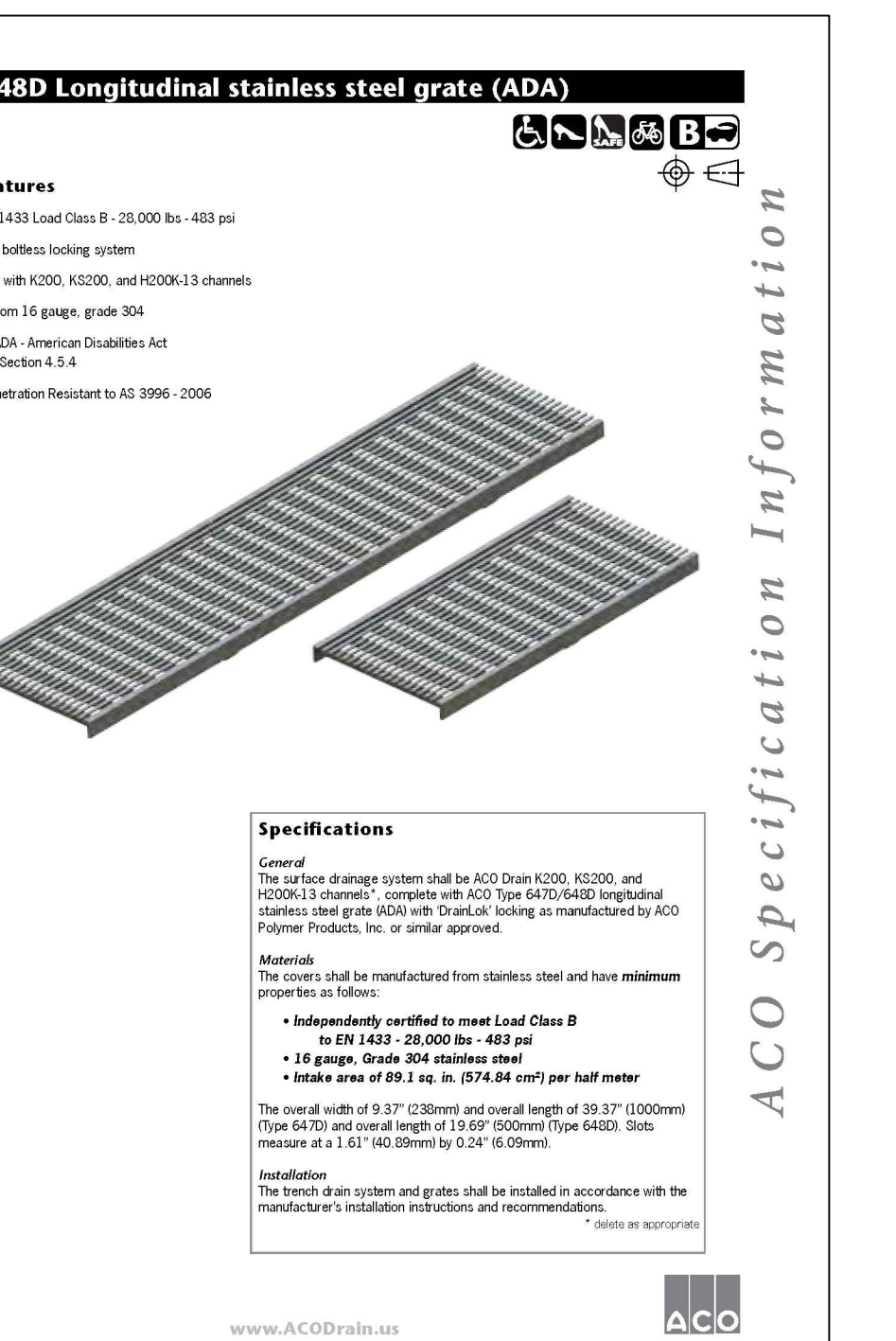
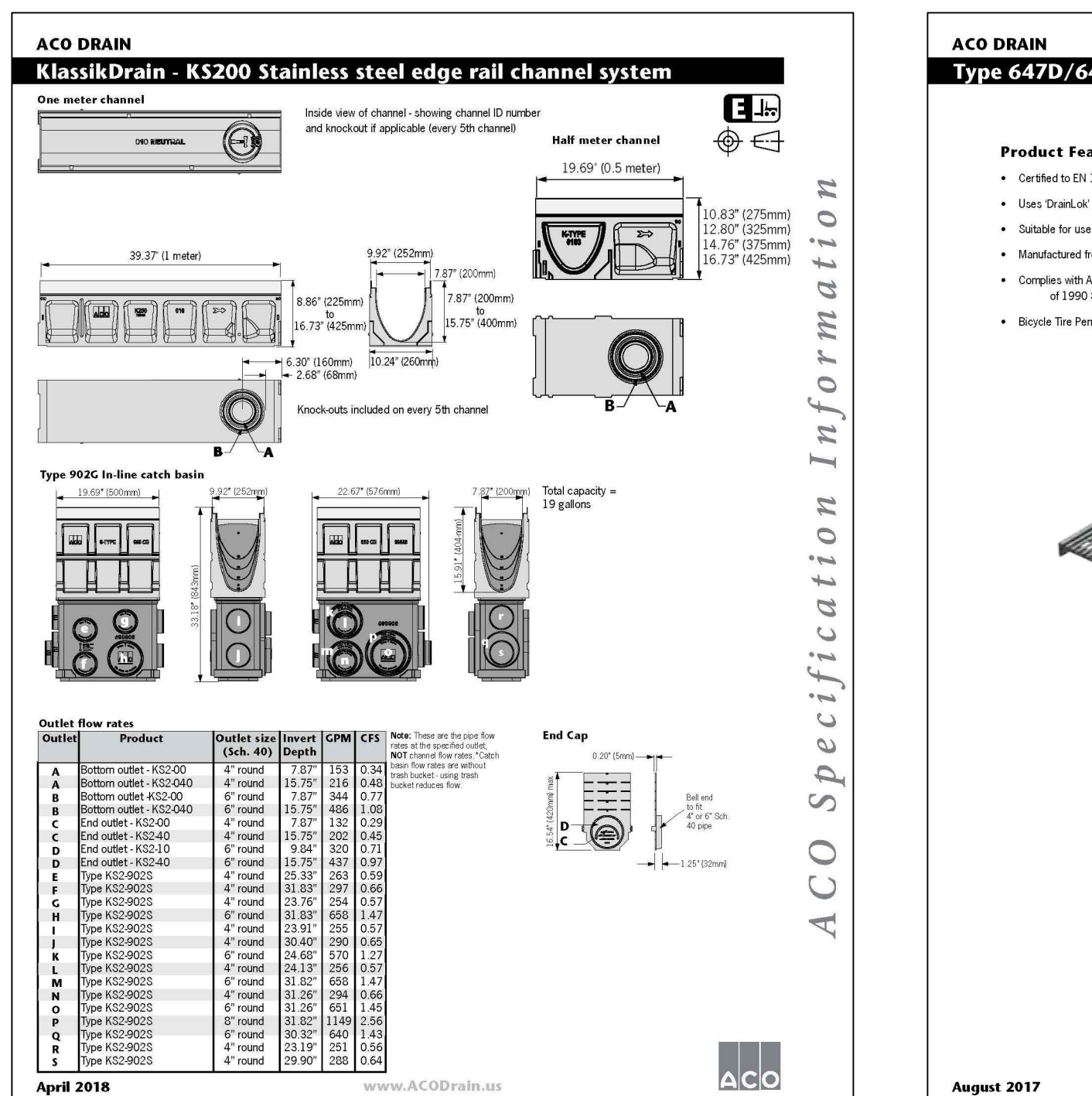
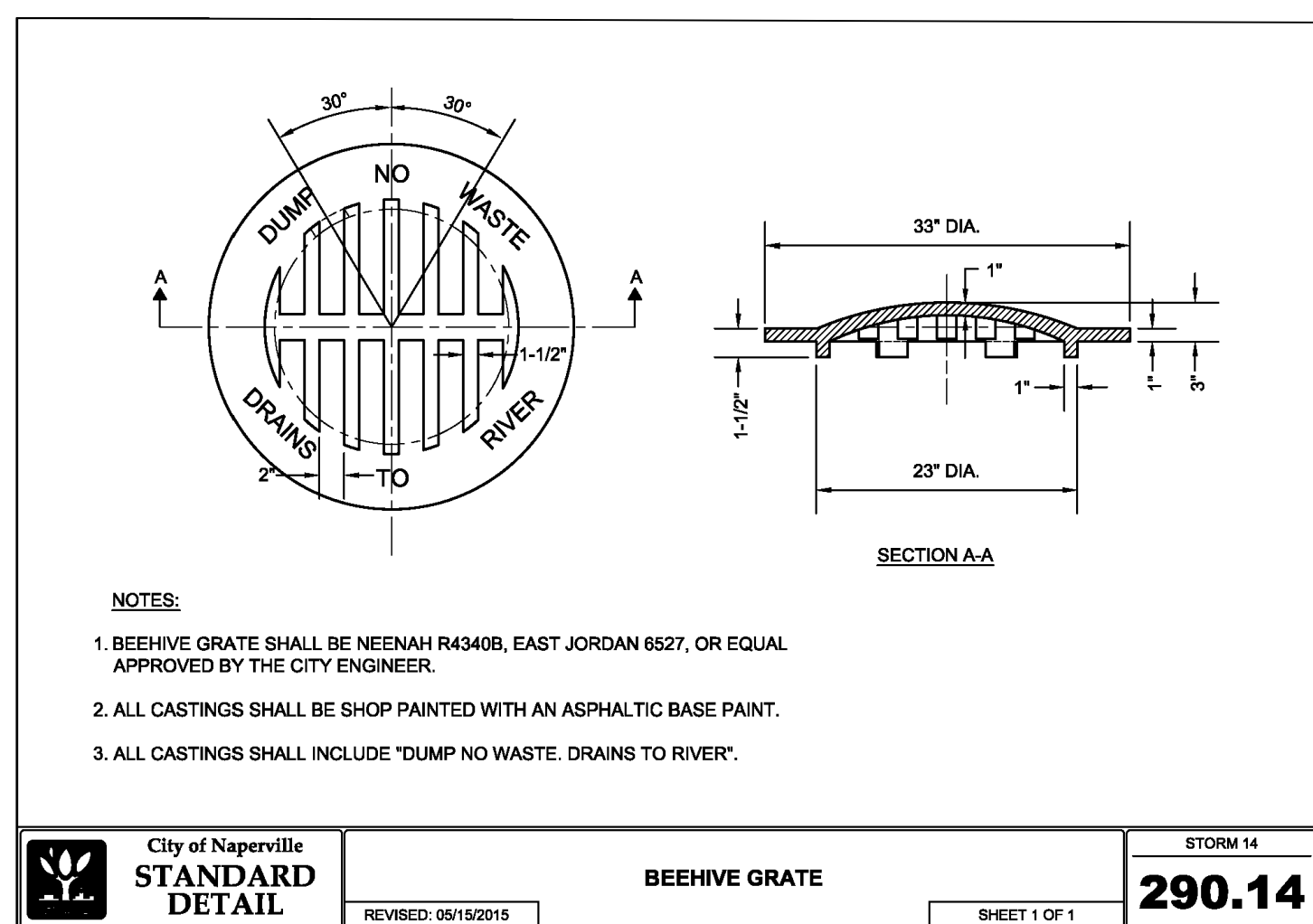
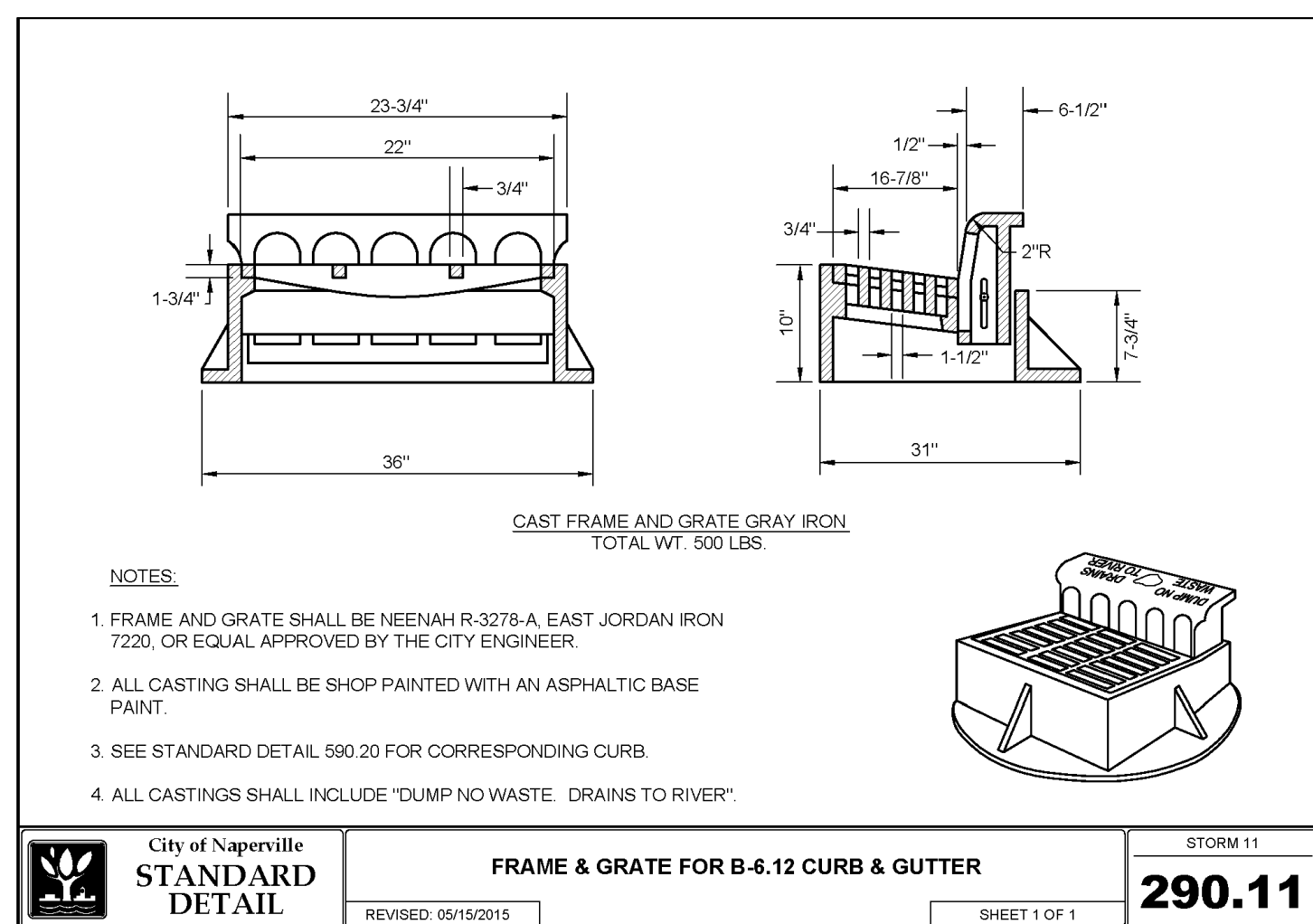
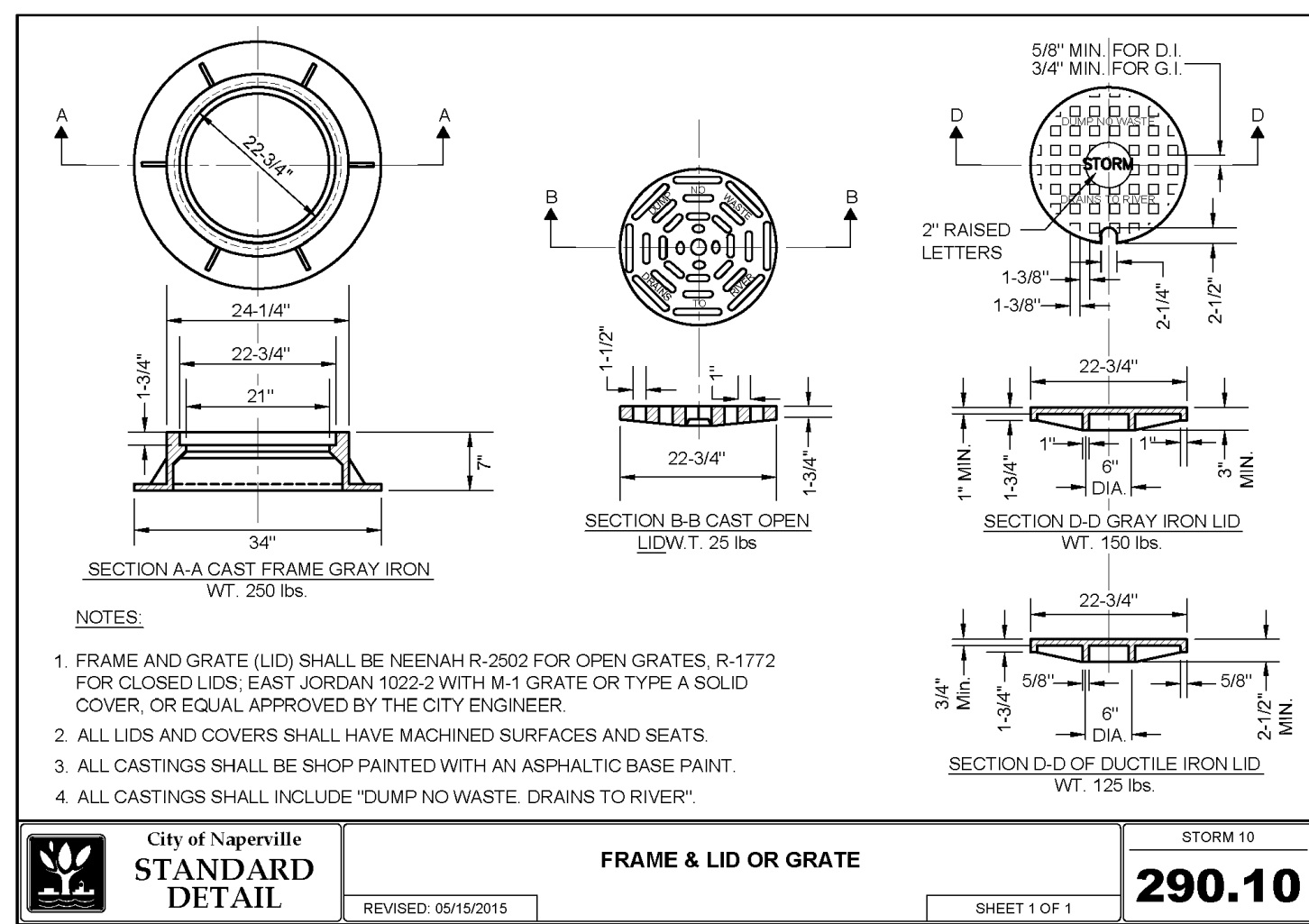
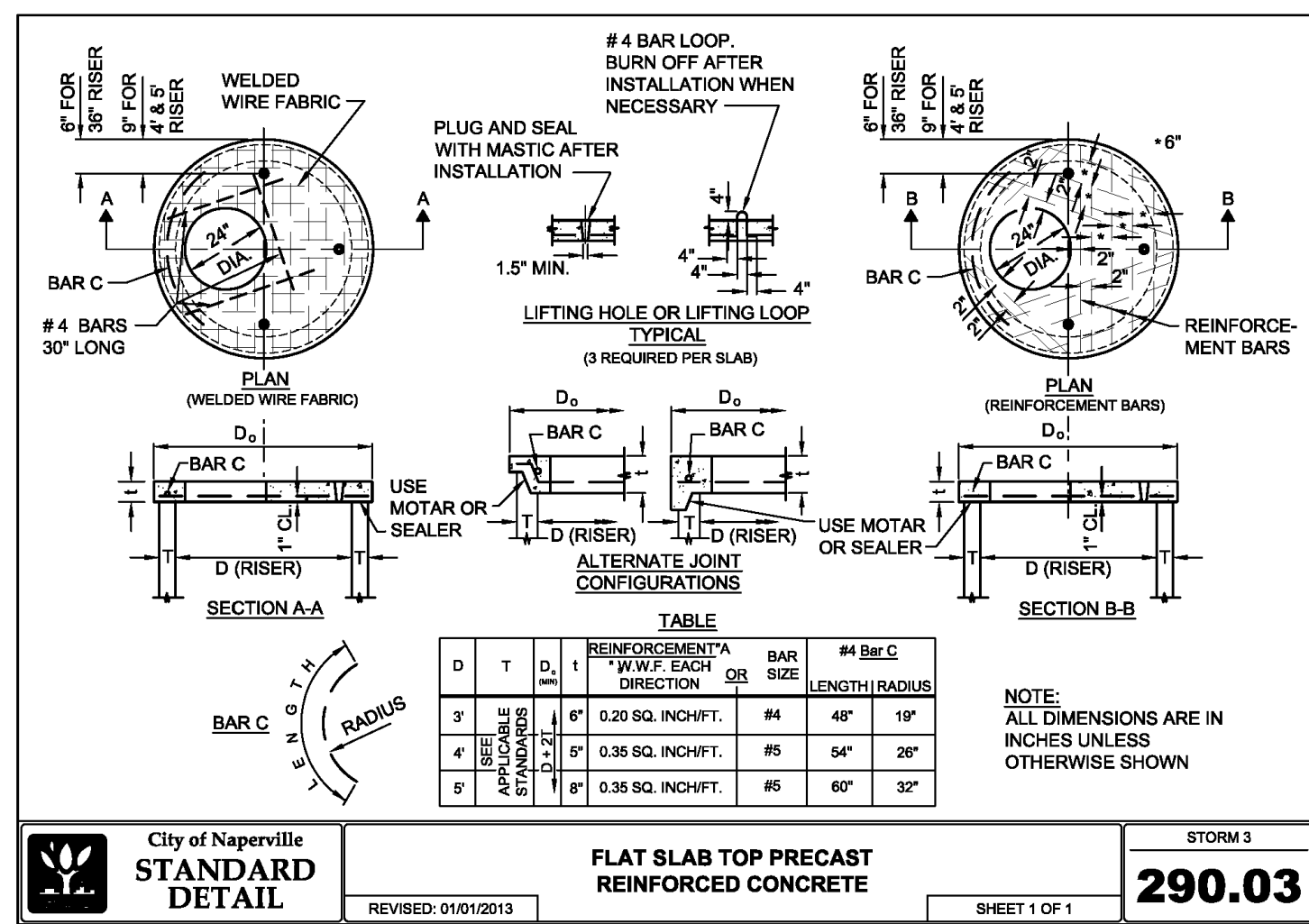
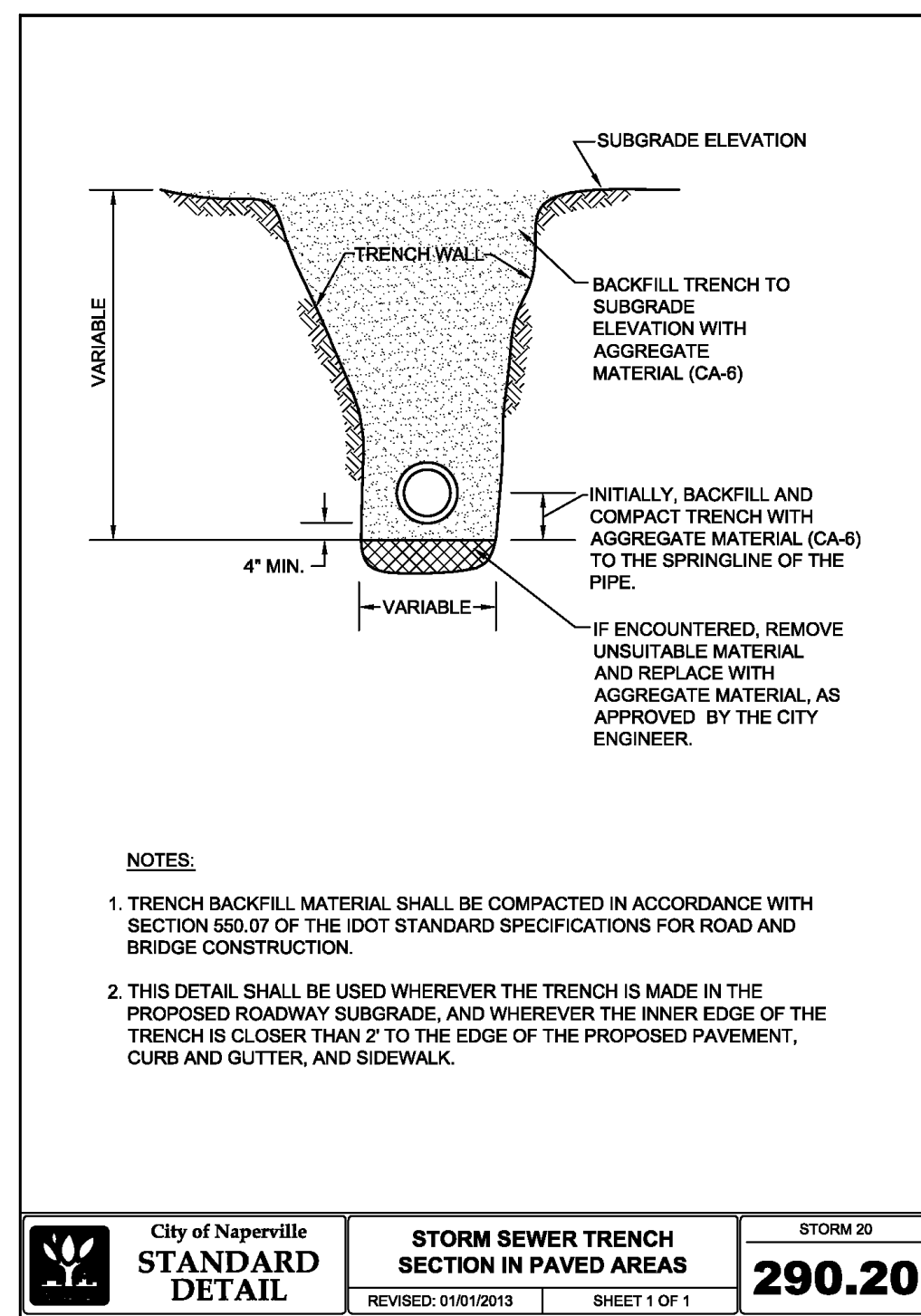
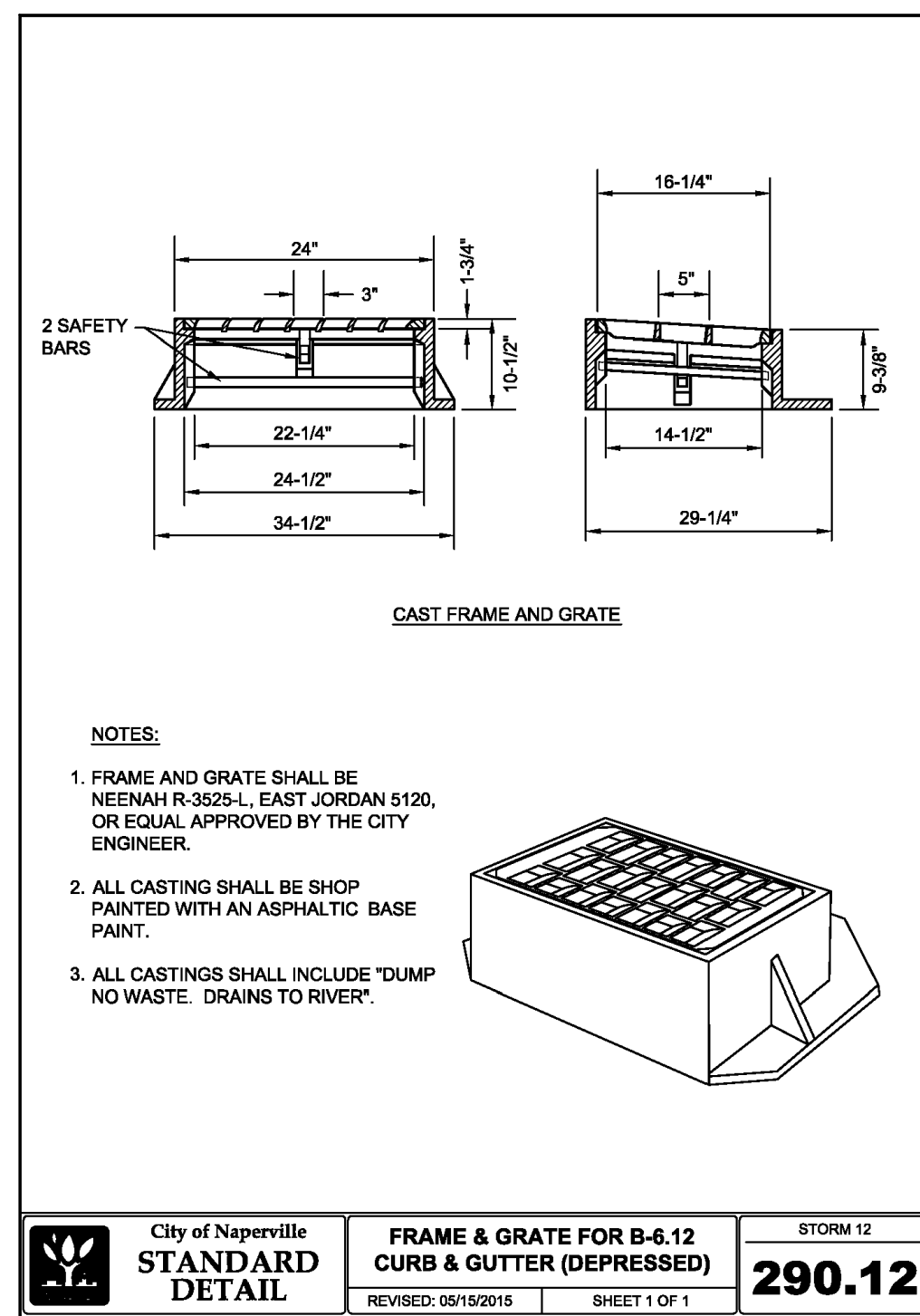
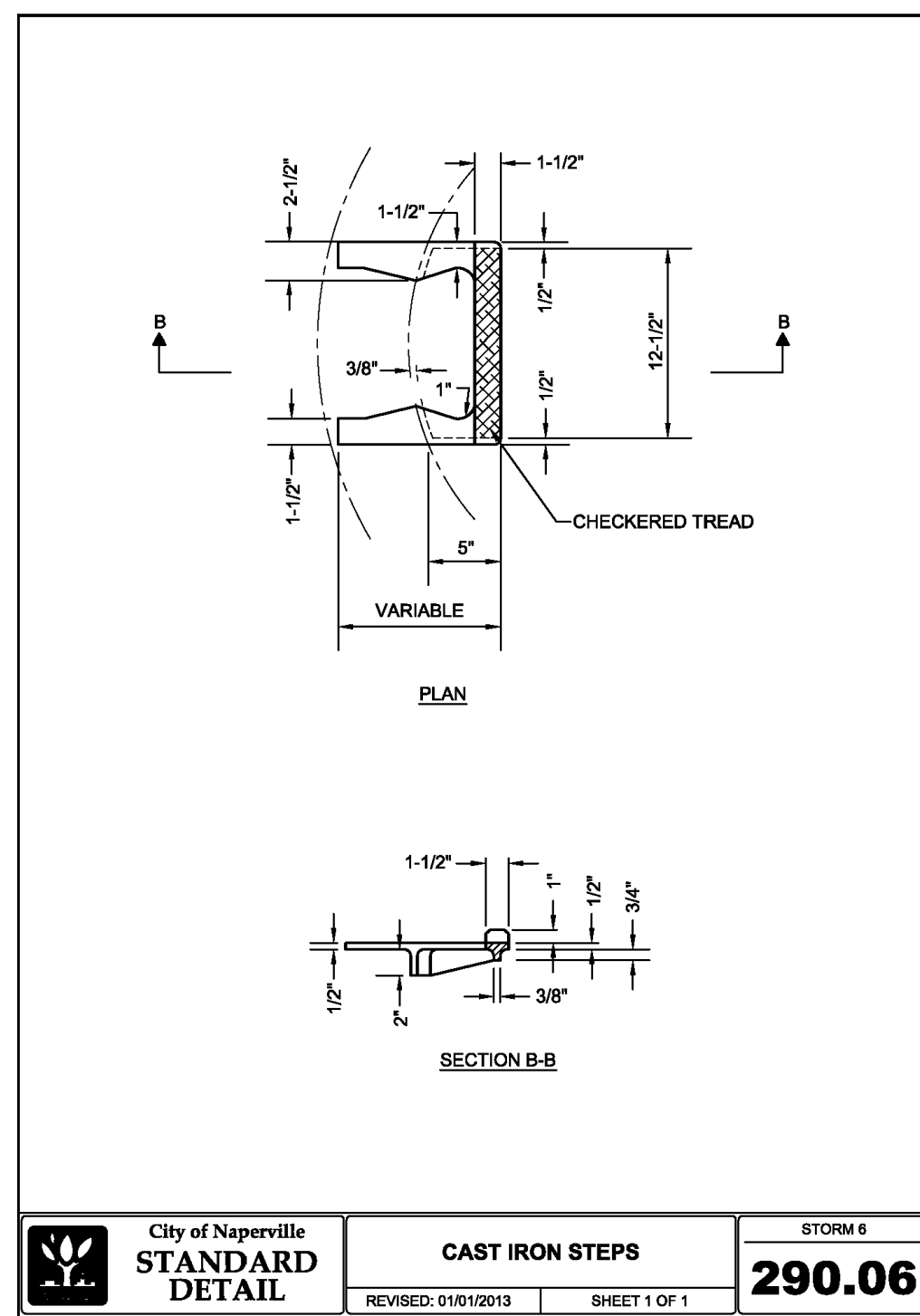
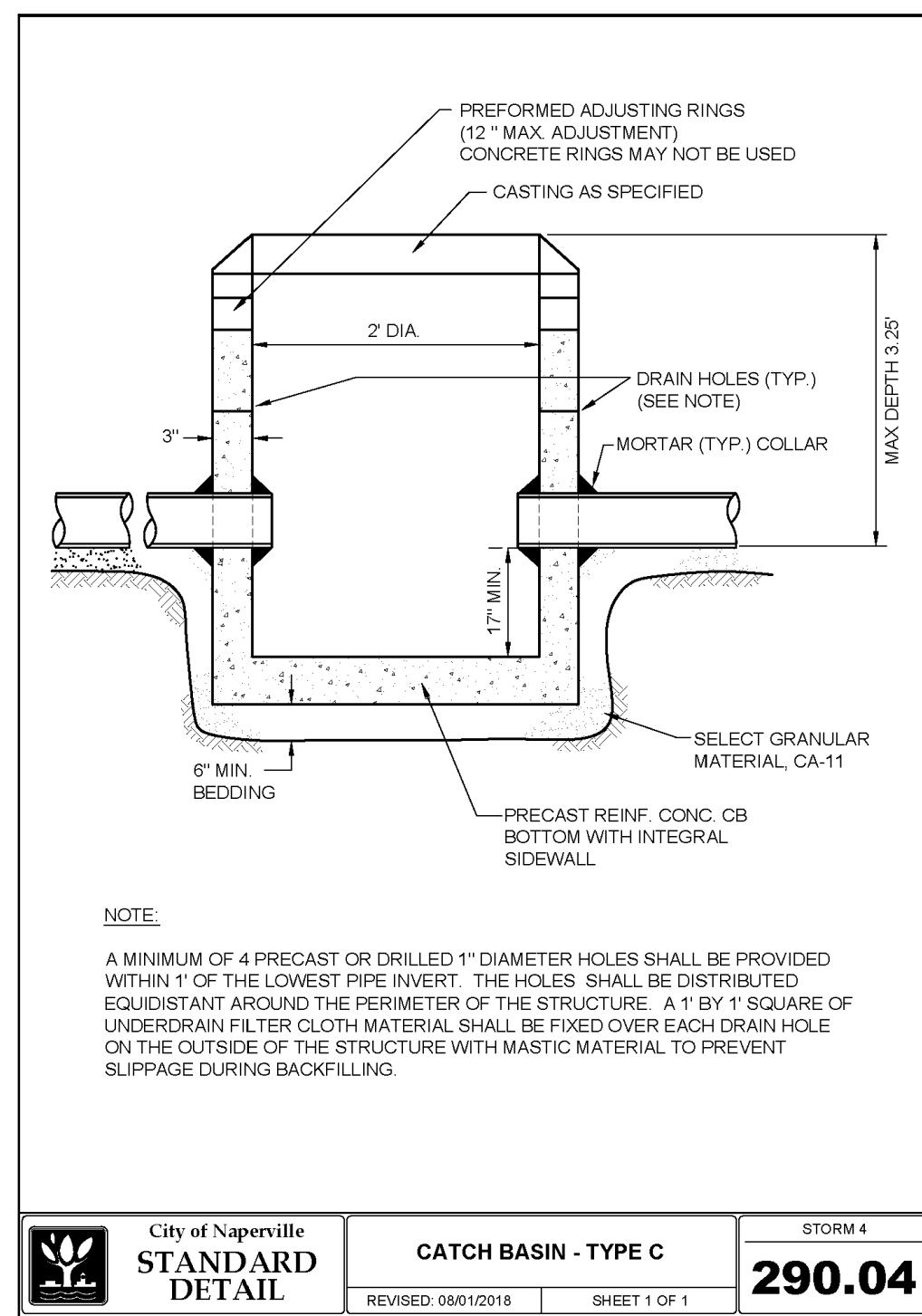
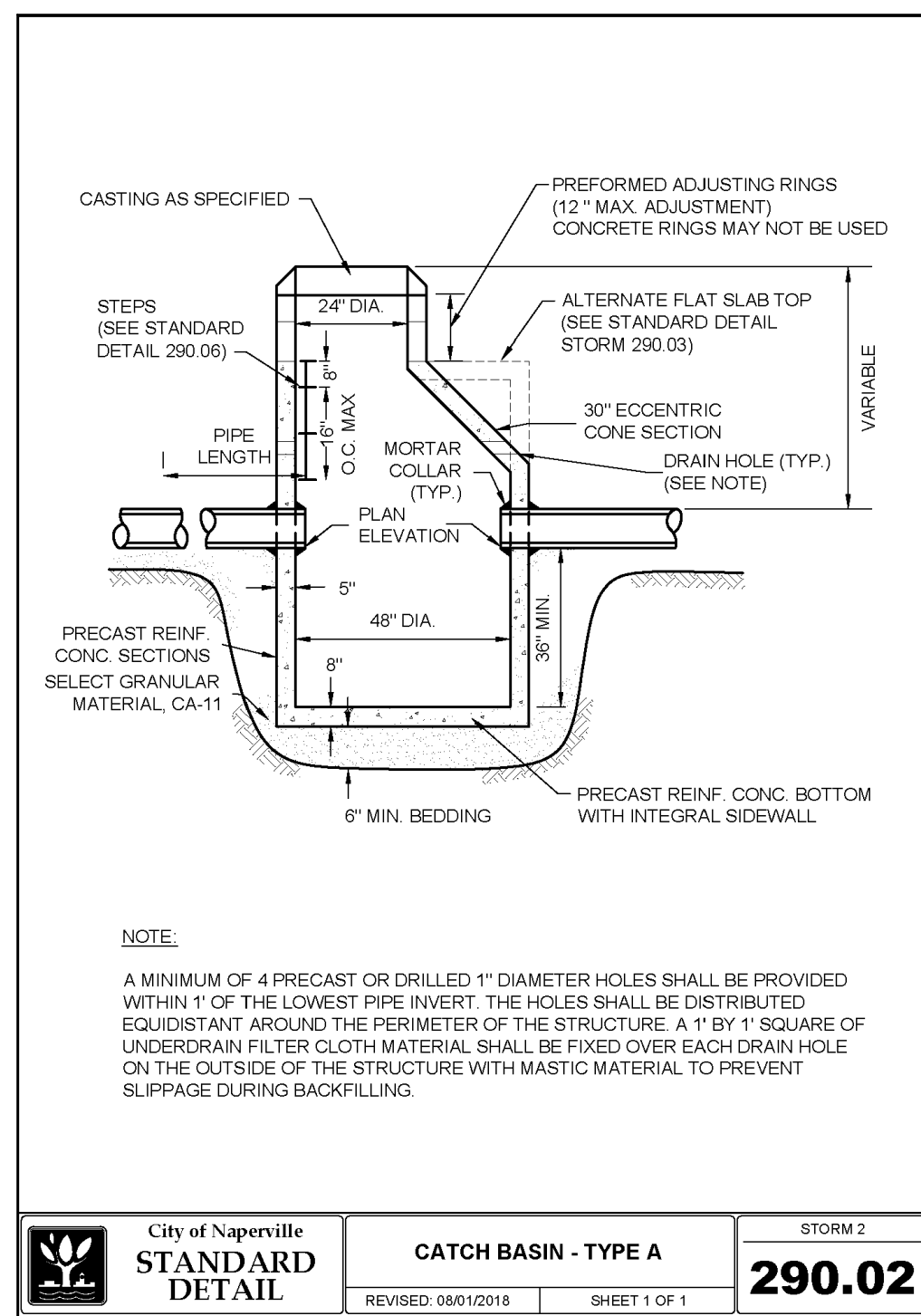
No.	Date	Revision
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**GRADING PLAN**  
**VIEWS OF NAPERVILLE CLUBHOUSE**  
**SITE IMPROVEMENT PLANS**  
 701 ROYAL SAINT GEORGE DRIVE, NAPERVILLE, ILLINOIS

Project Manager: P A C  
 Engineer: C J B  
 Date: 03/22/2024  
 Project No. 22-028  
 Sheet **C7.0** of C8

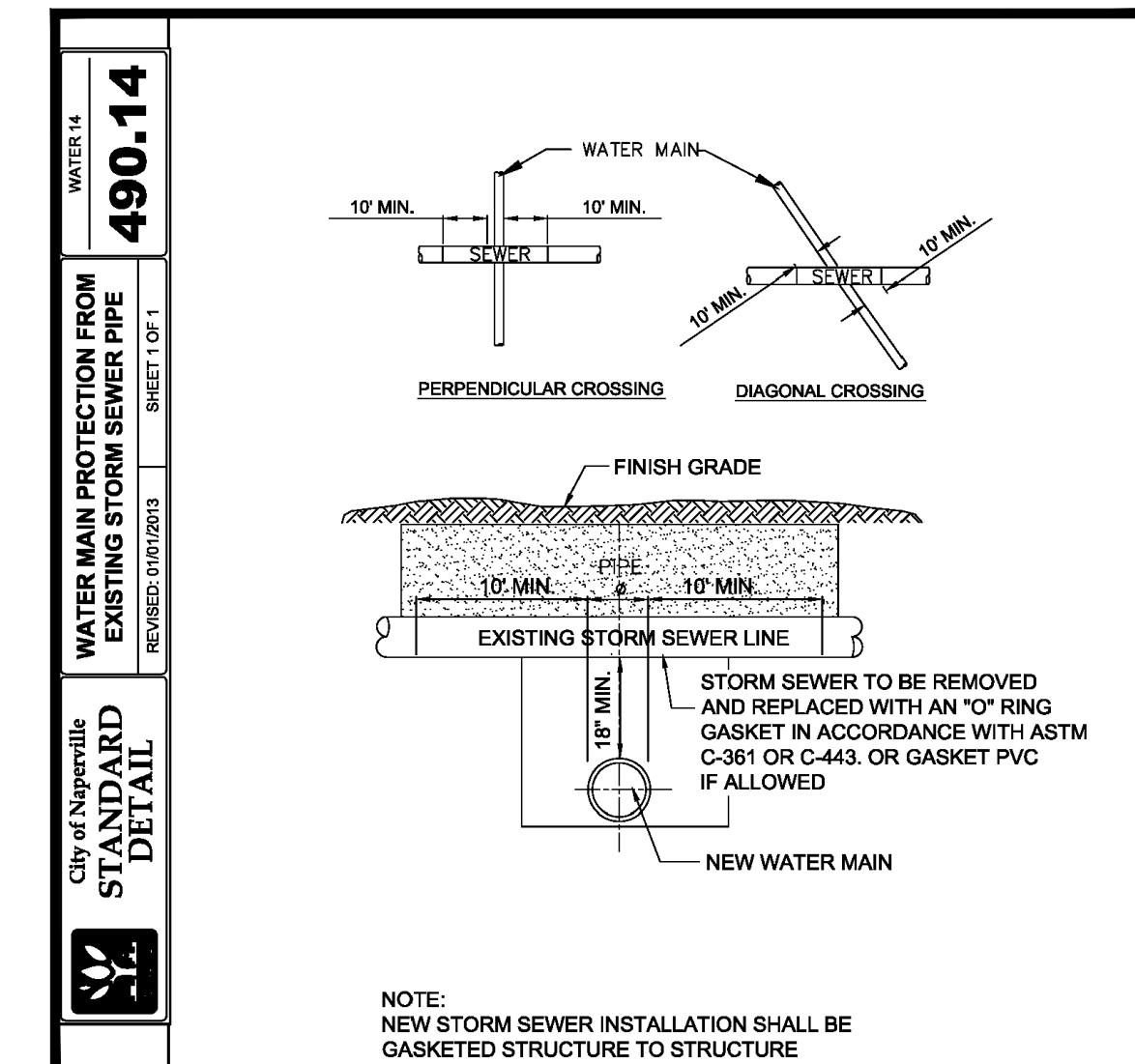
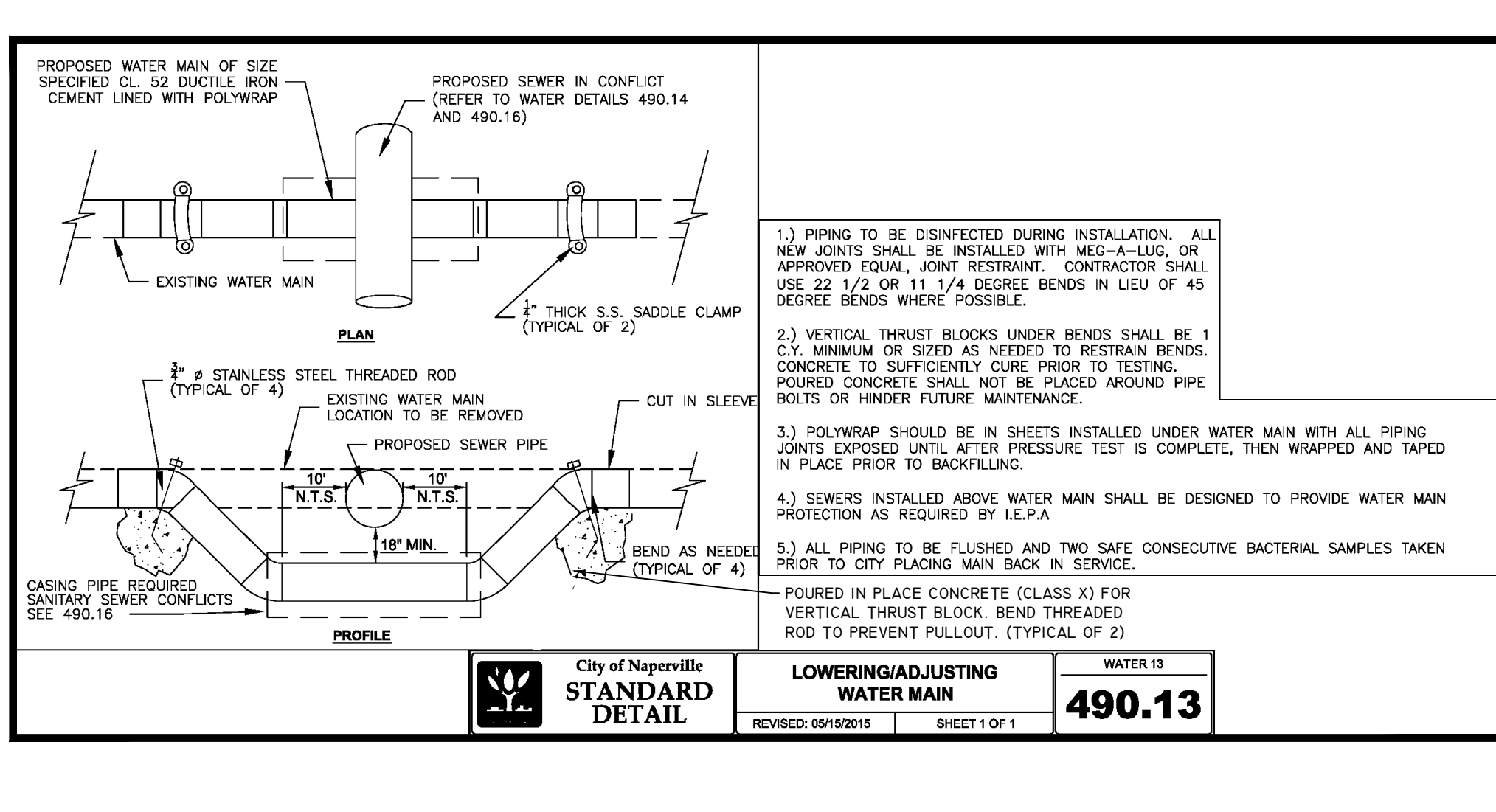
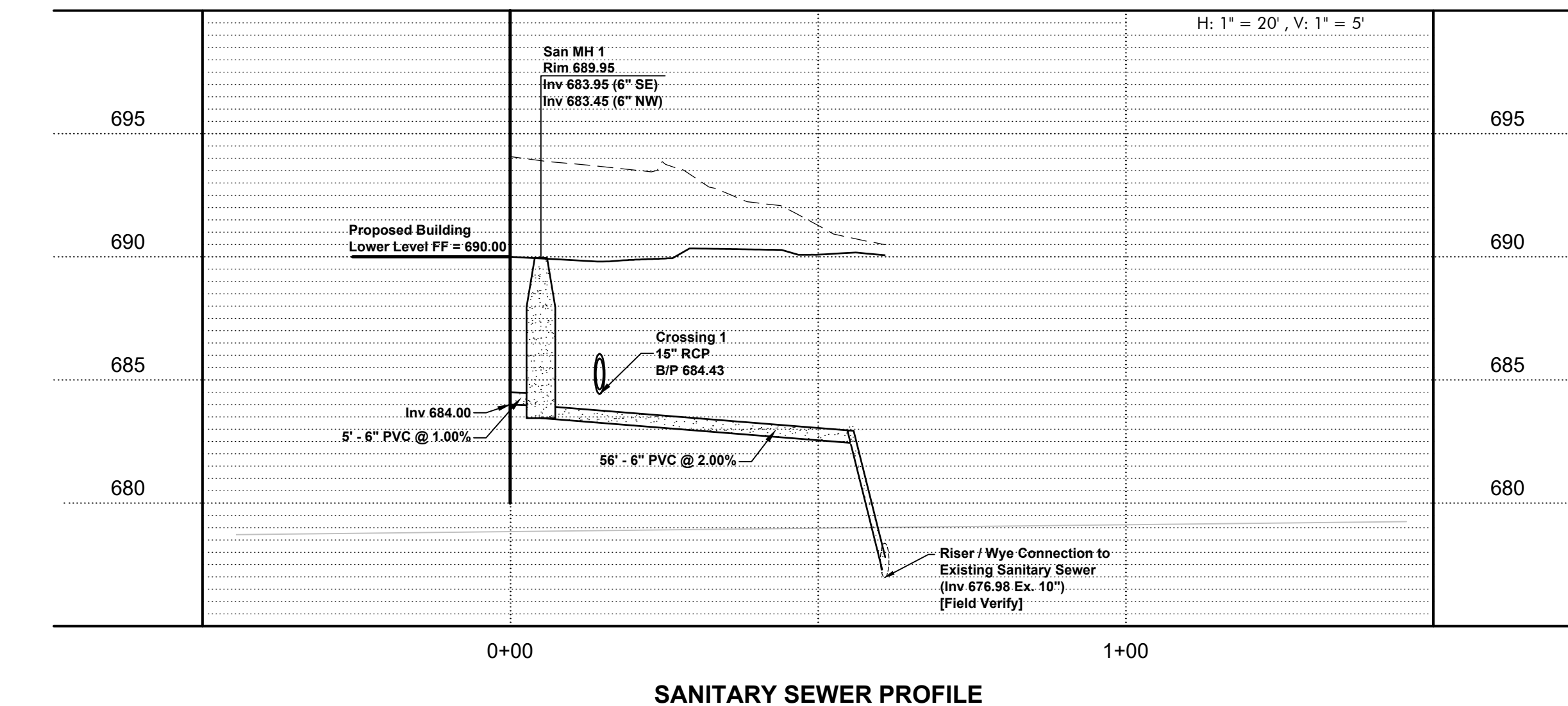
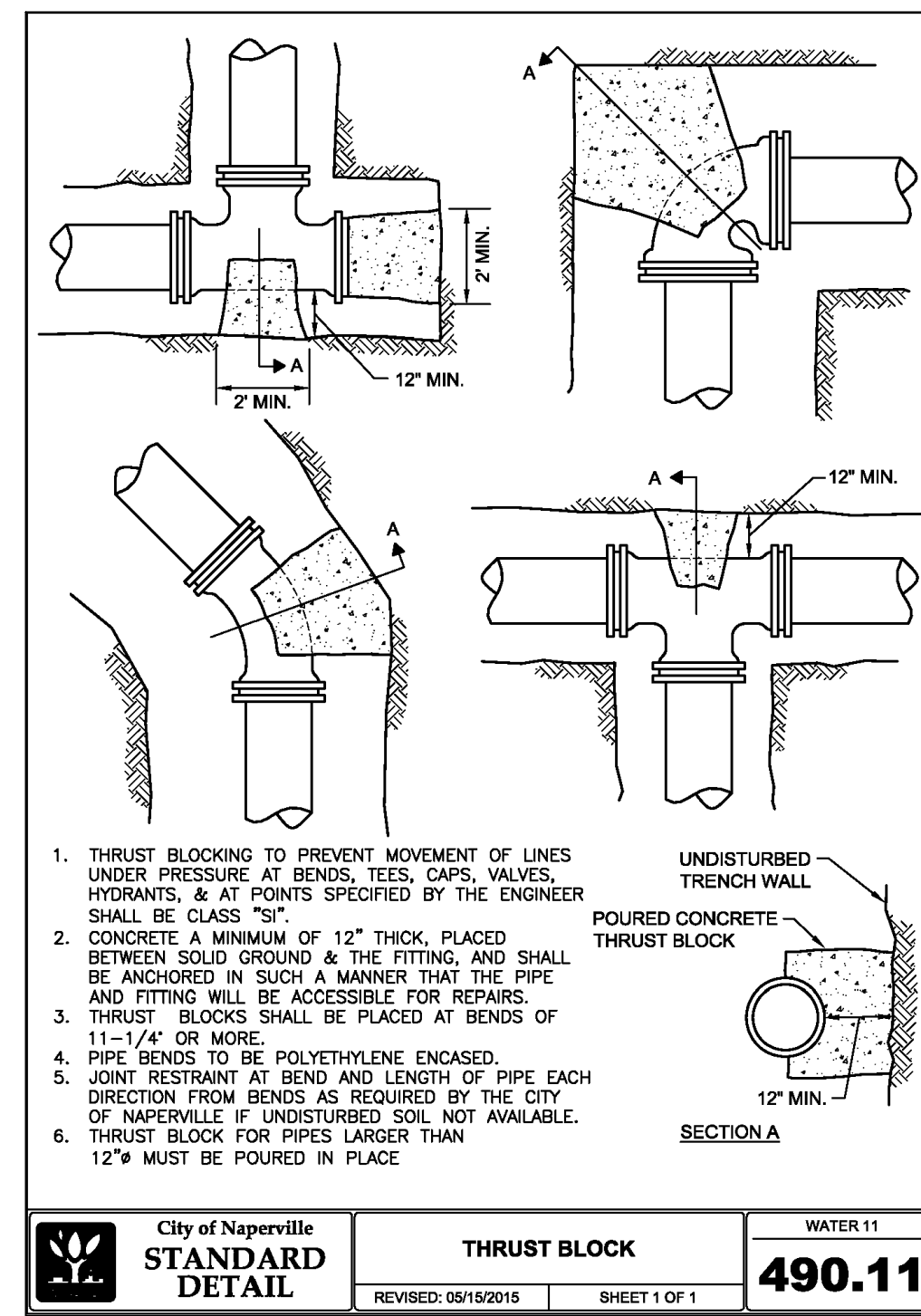
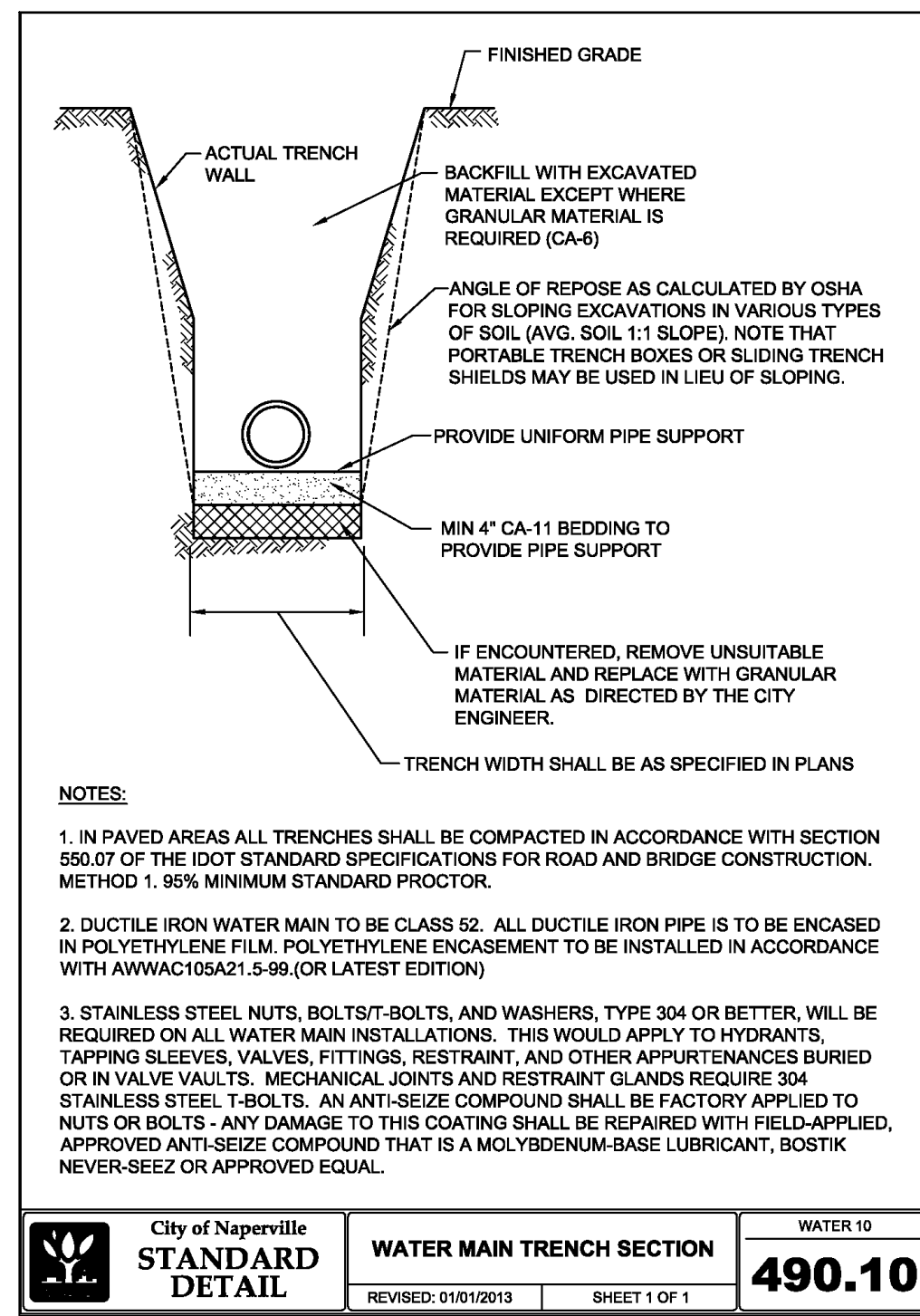
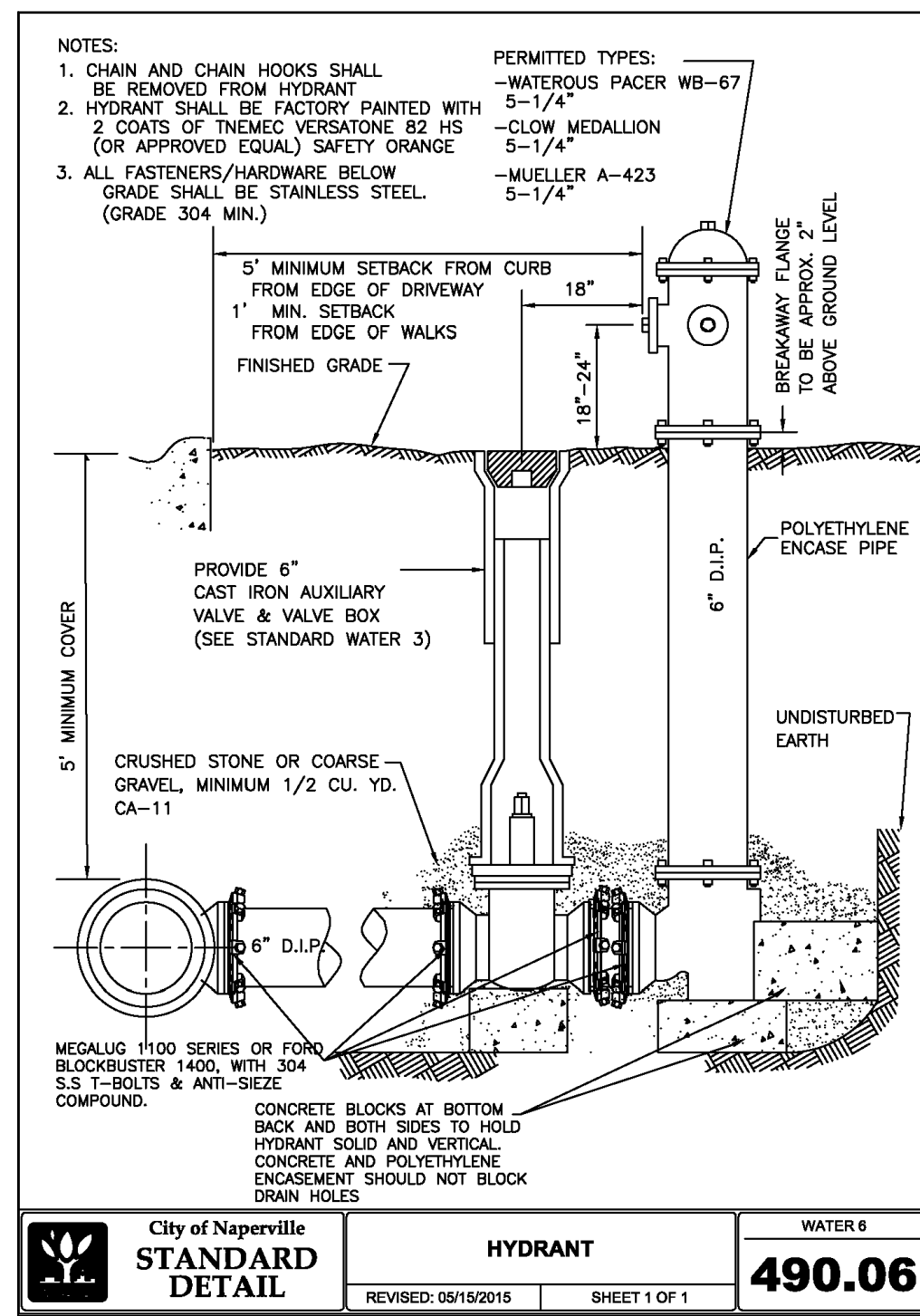
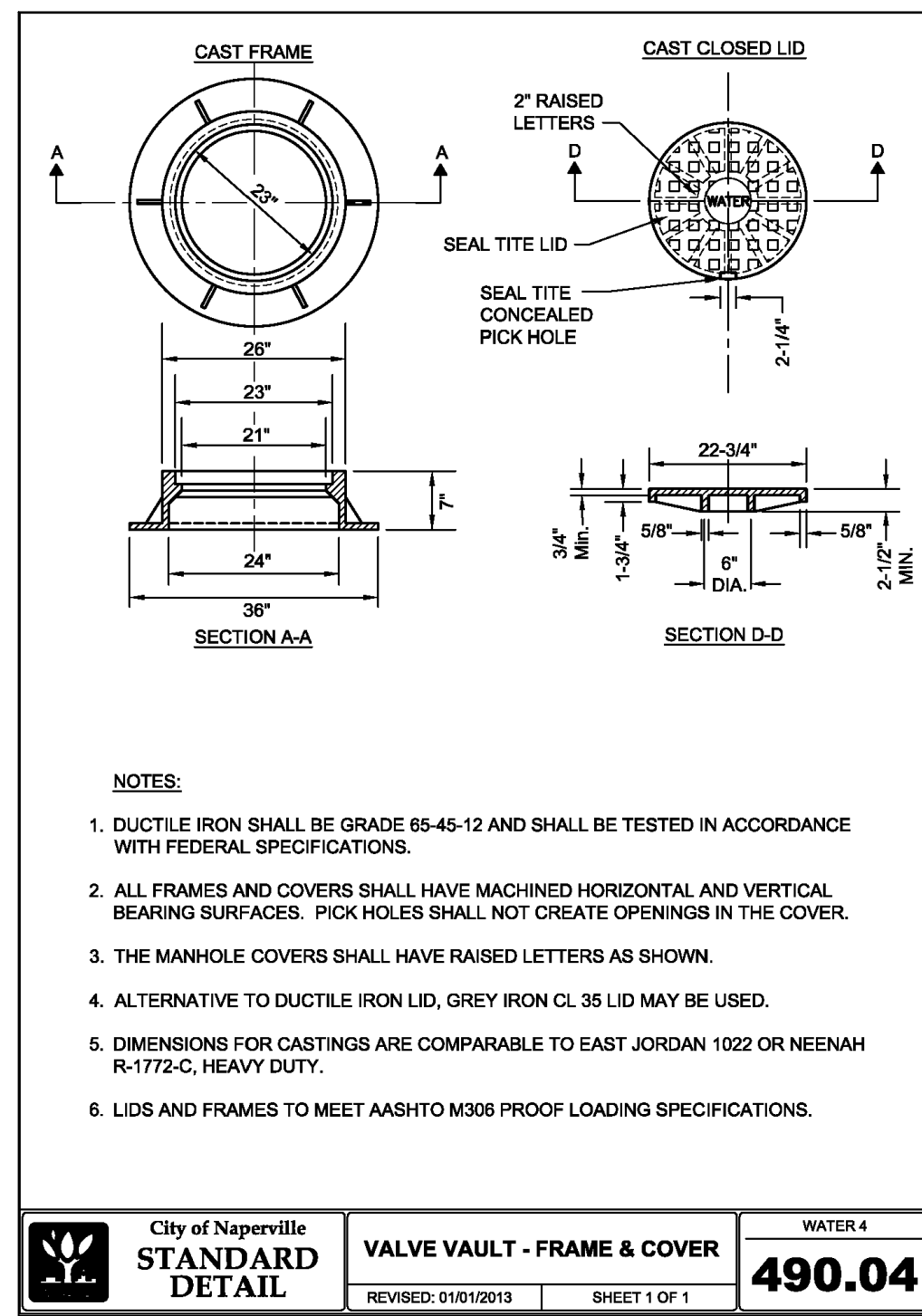
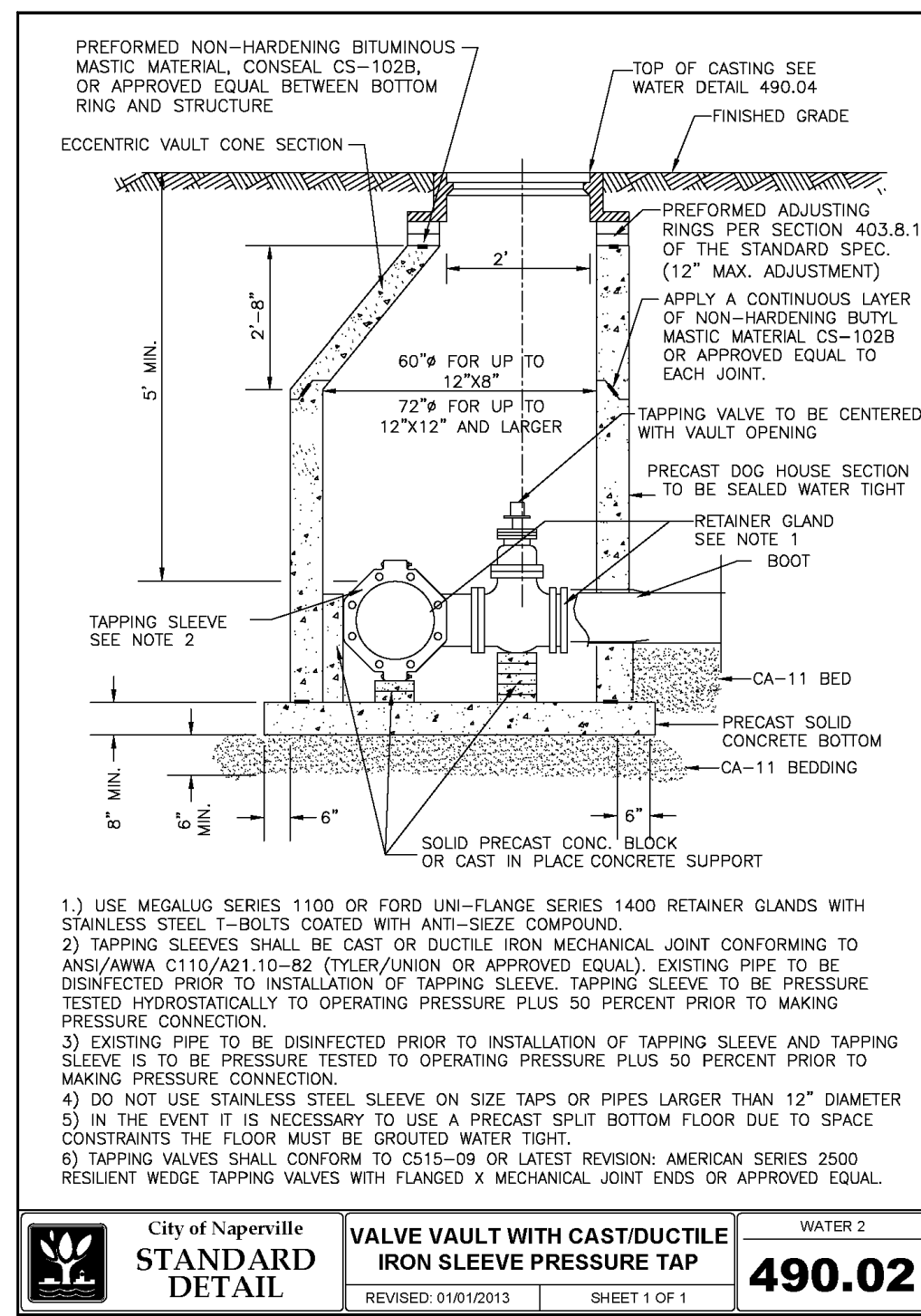
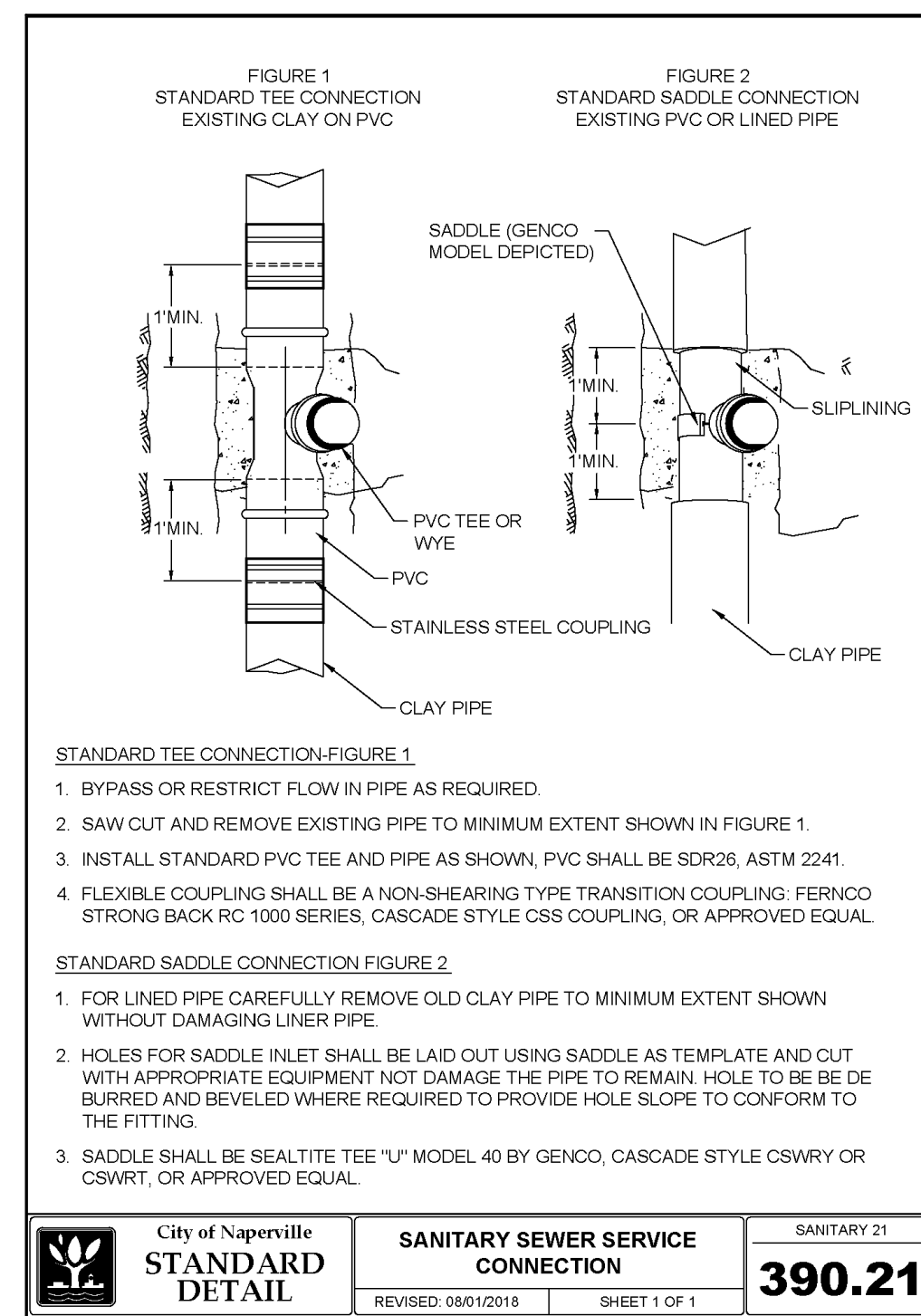
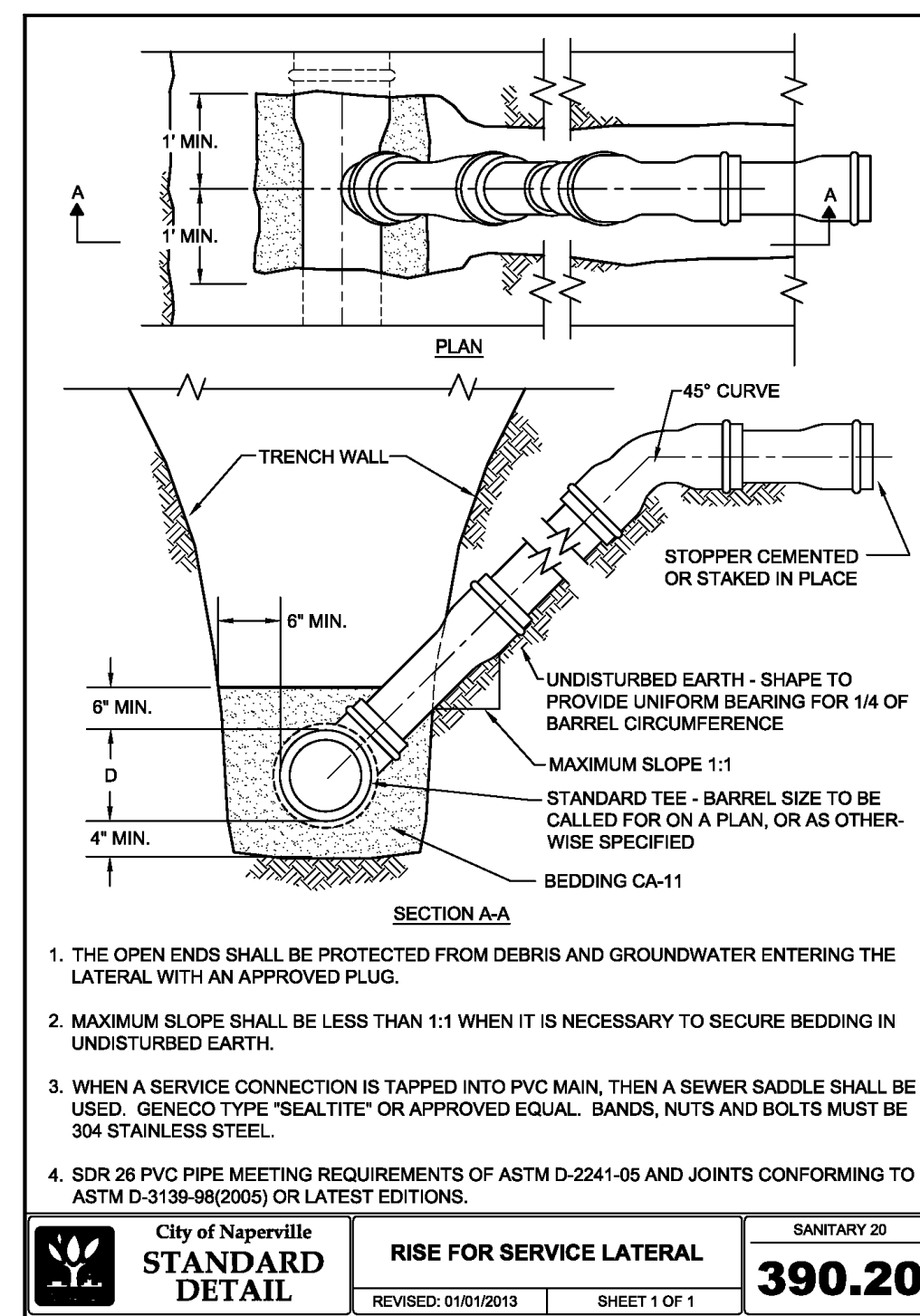
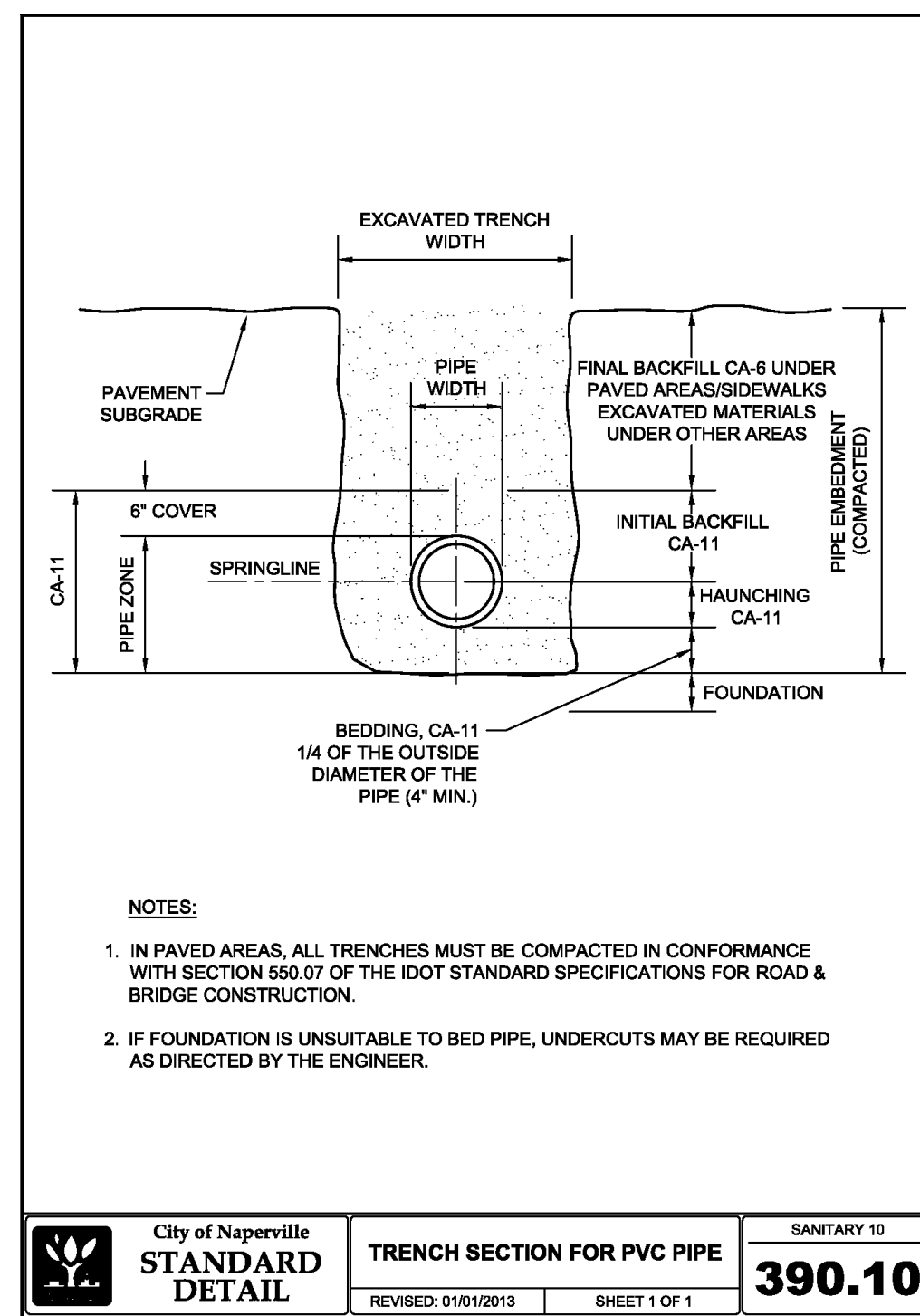
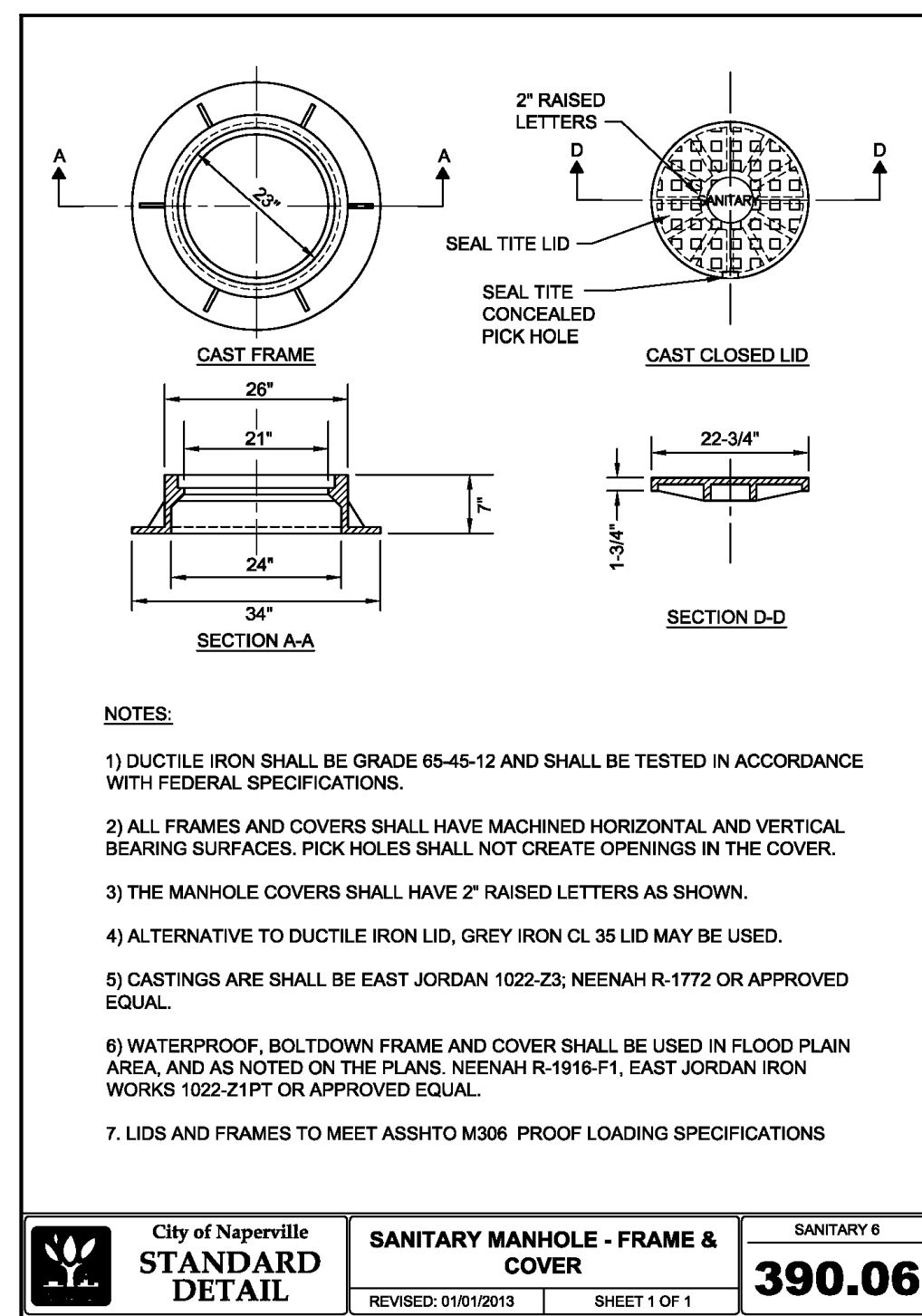
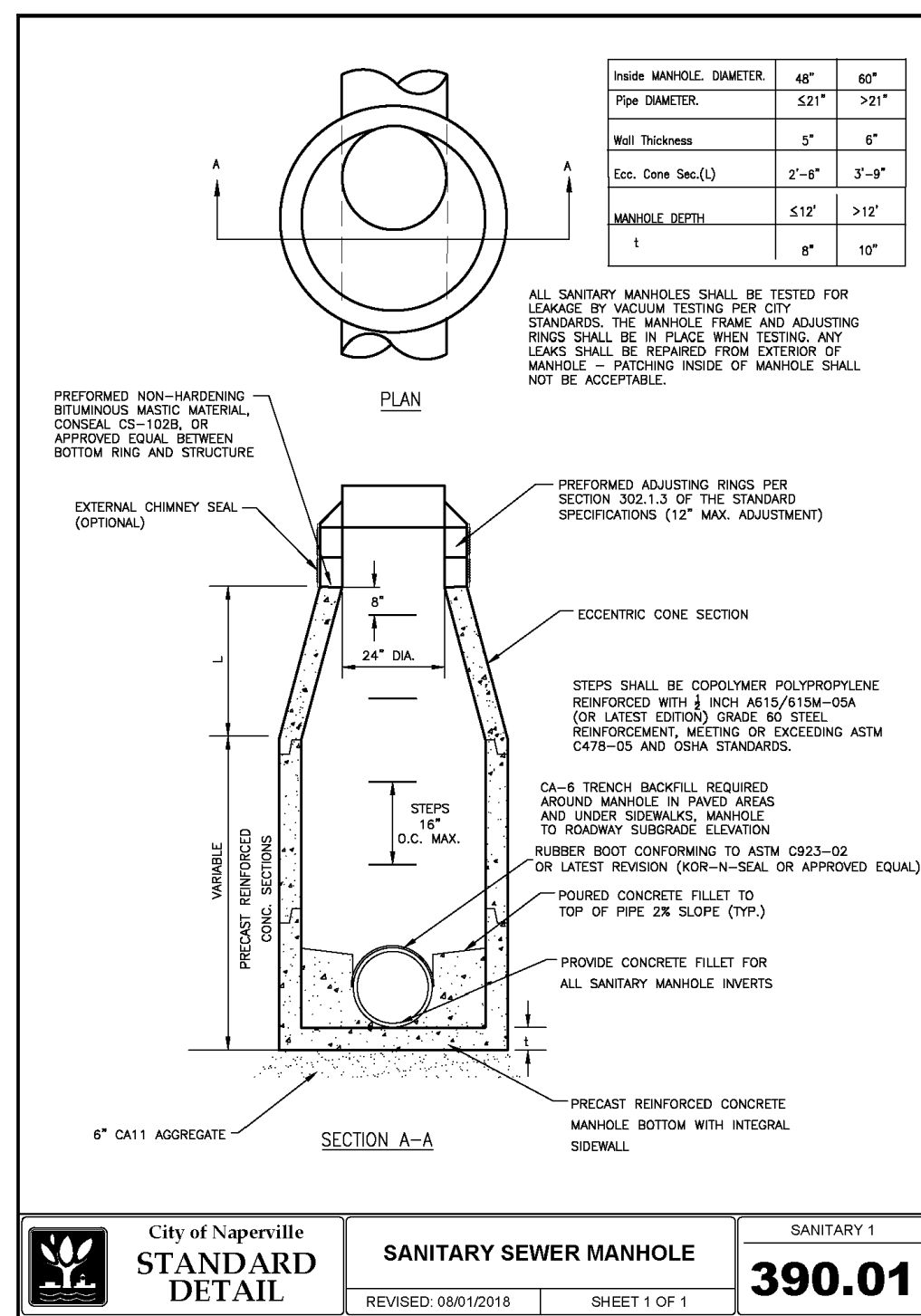


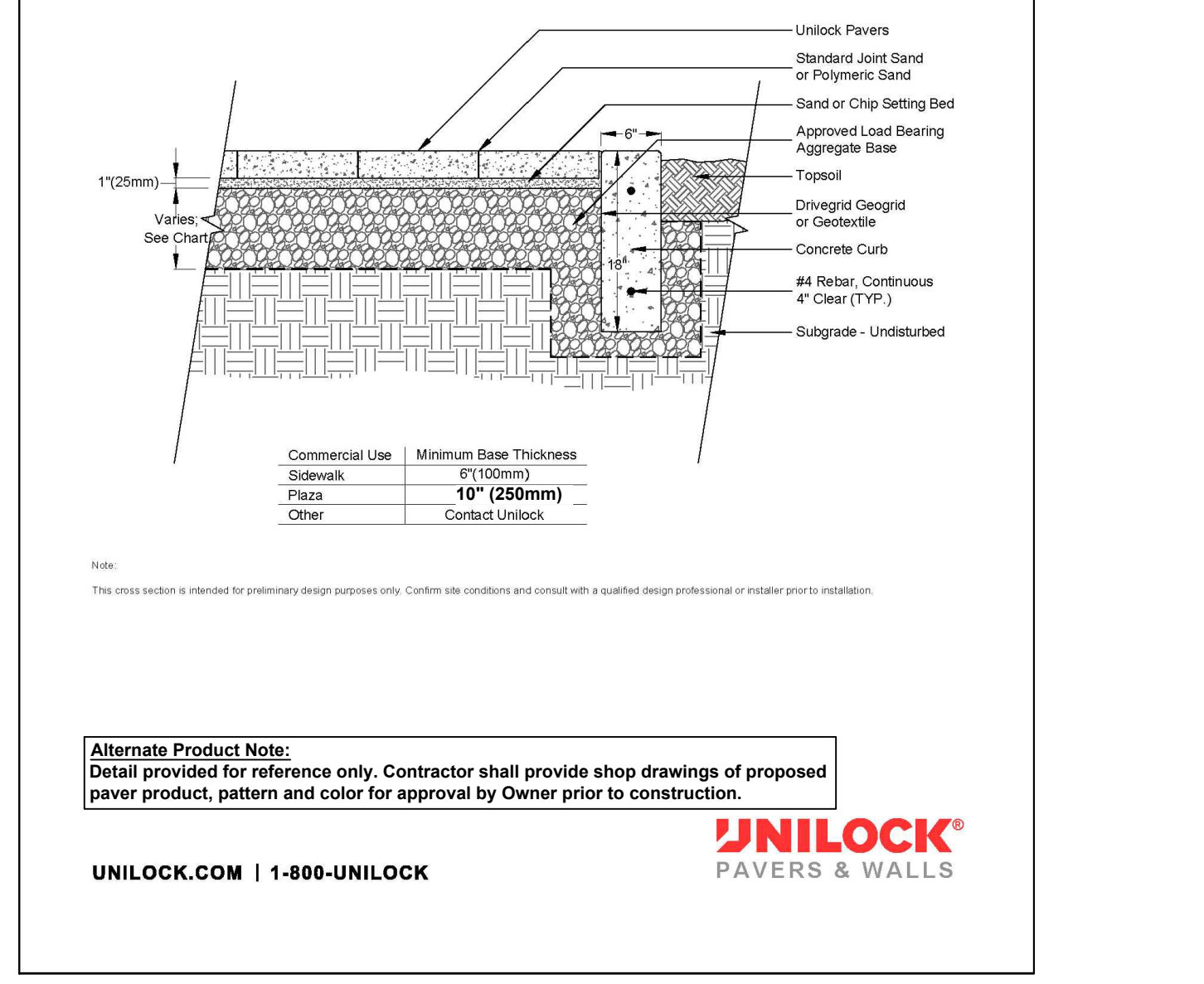
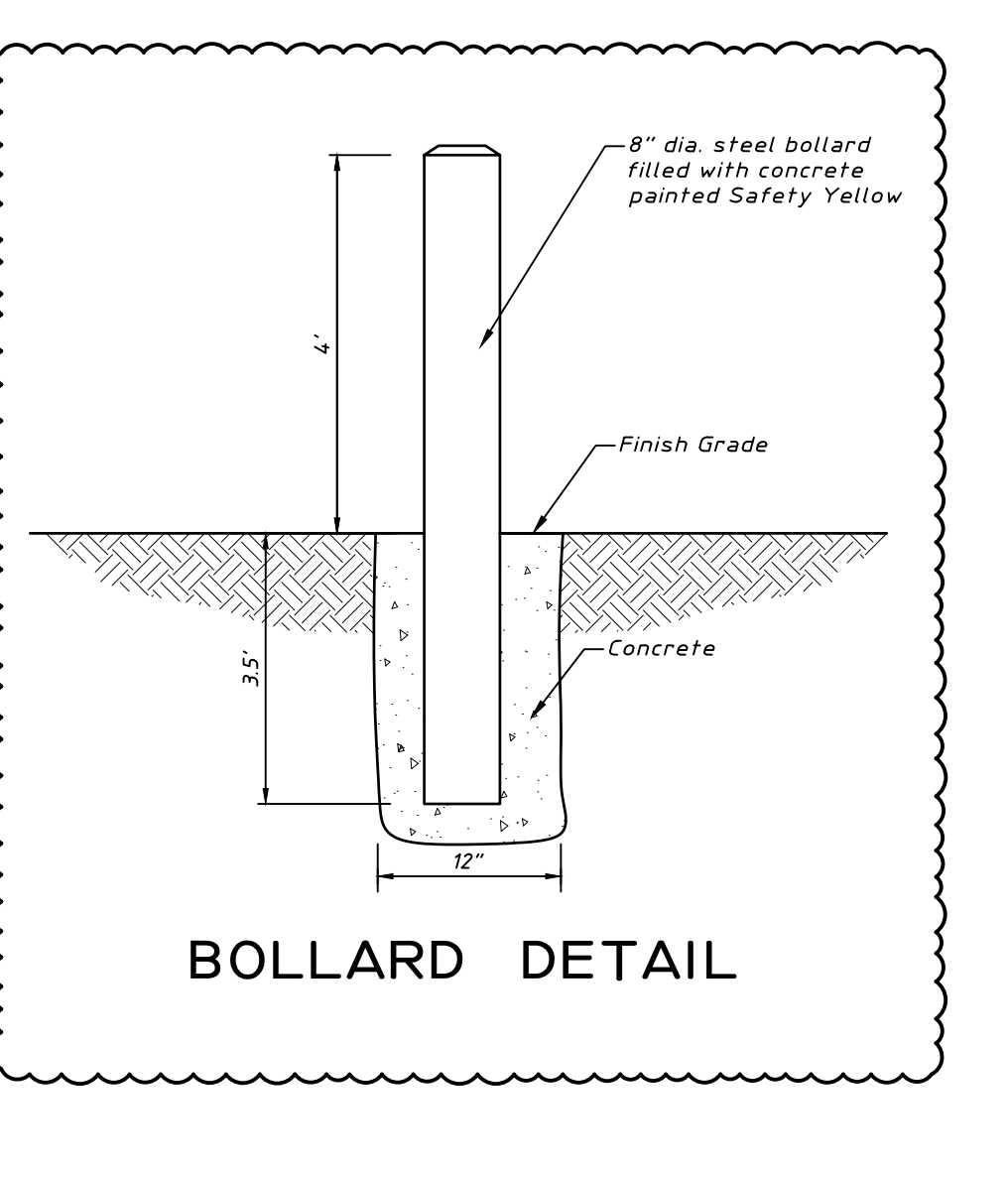
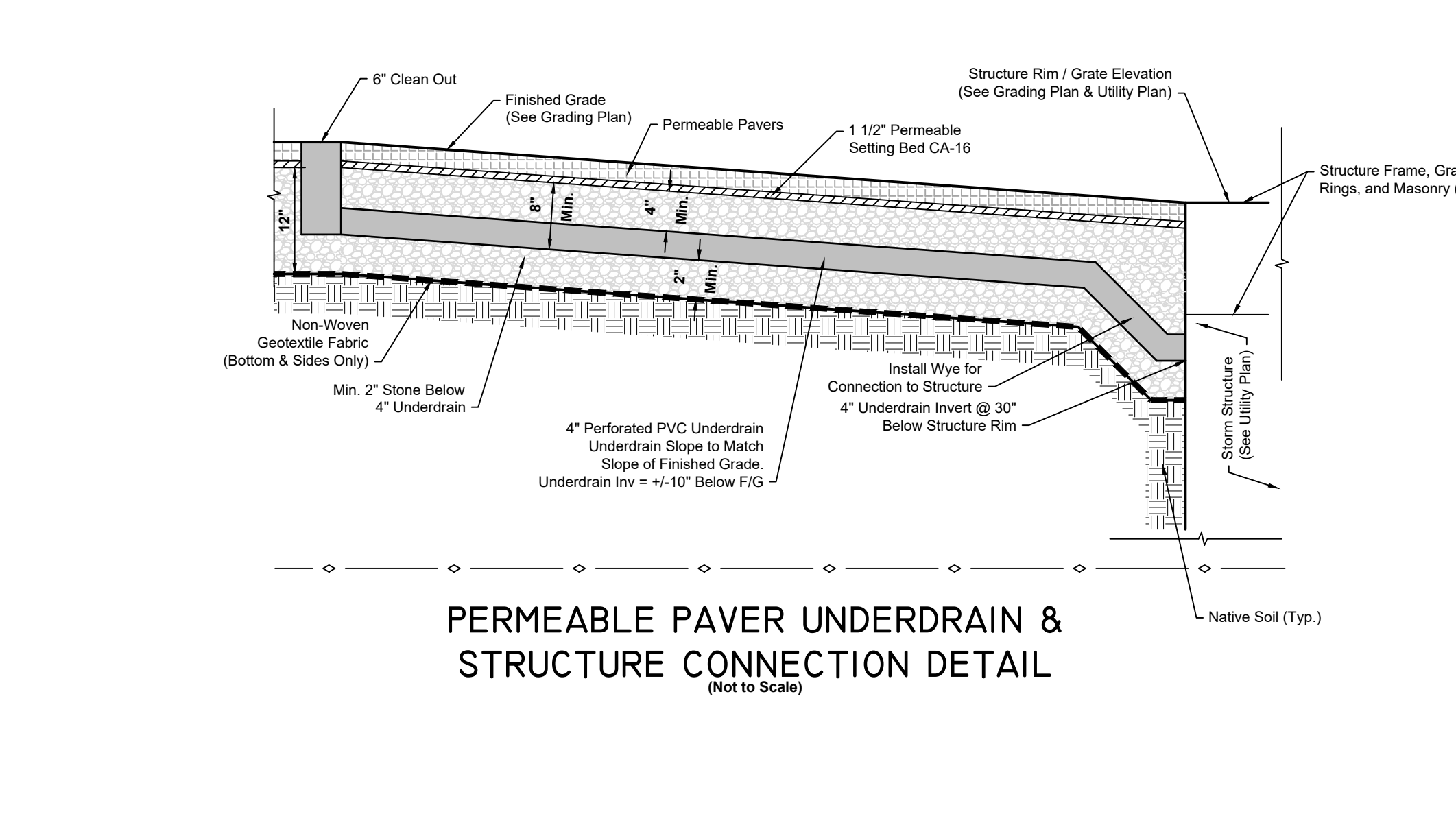
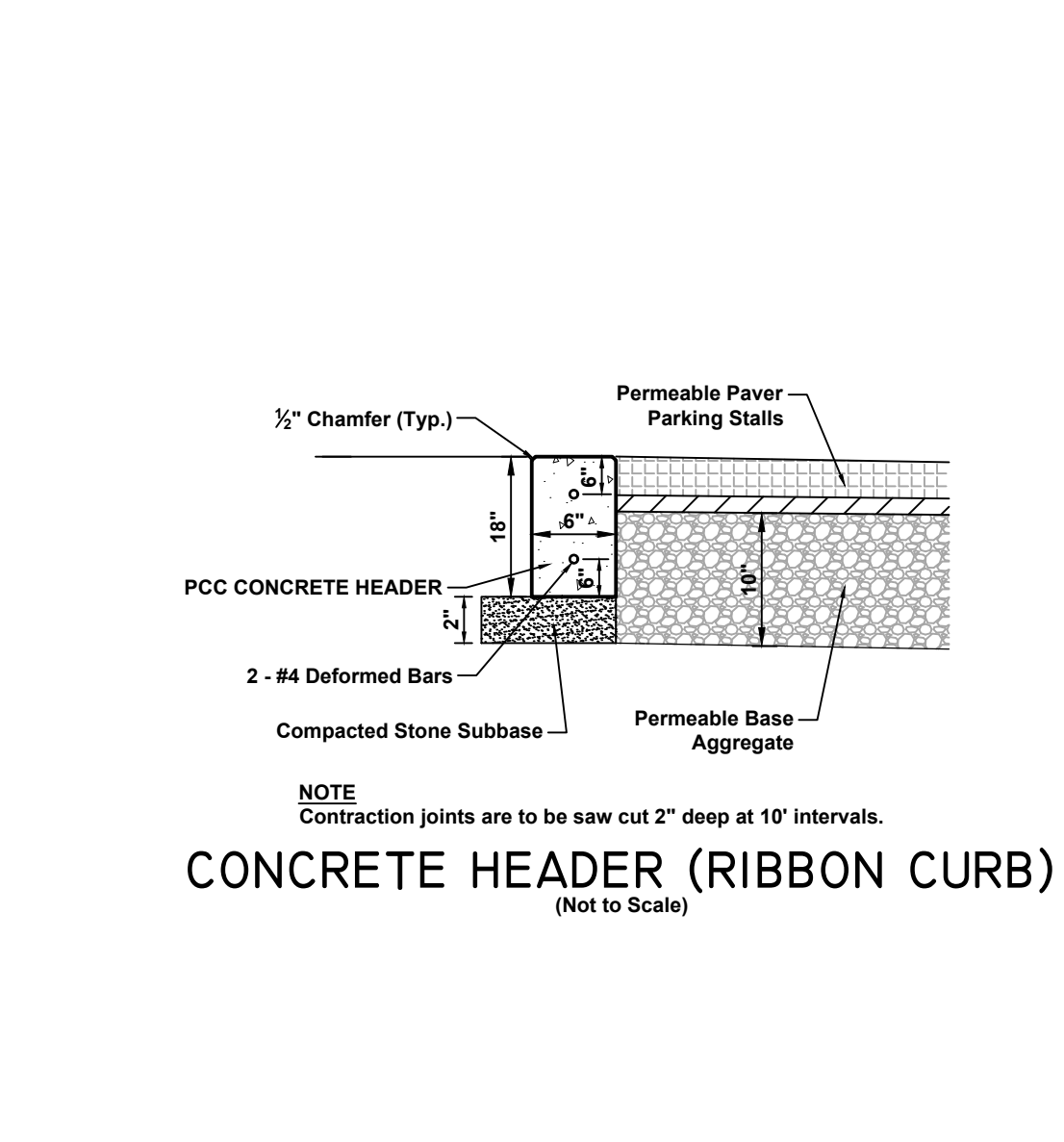
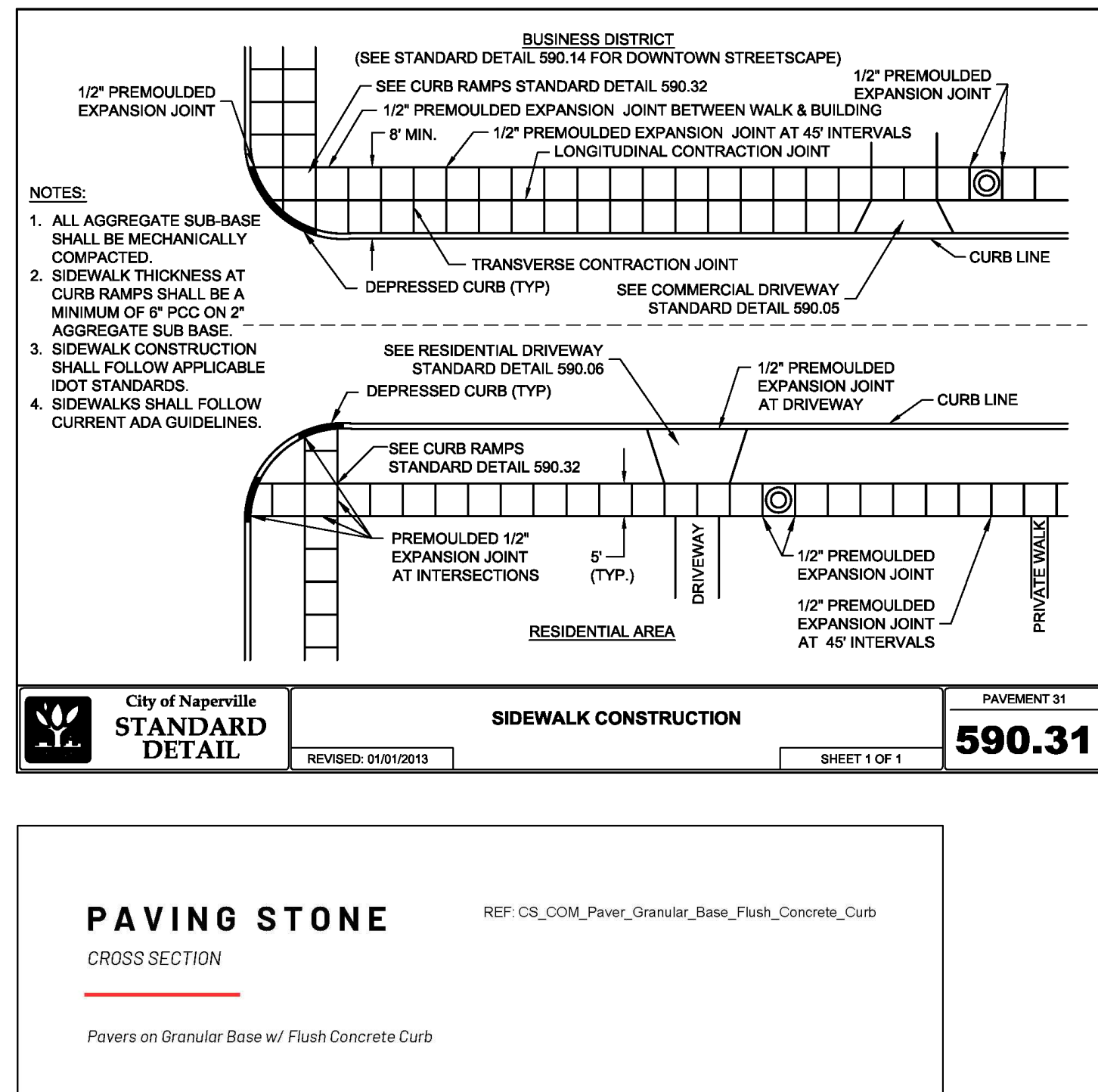
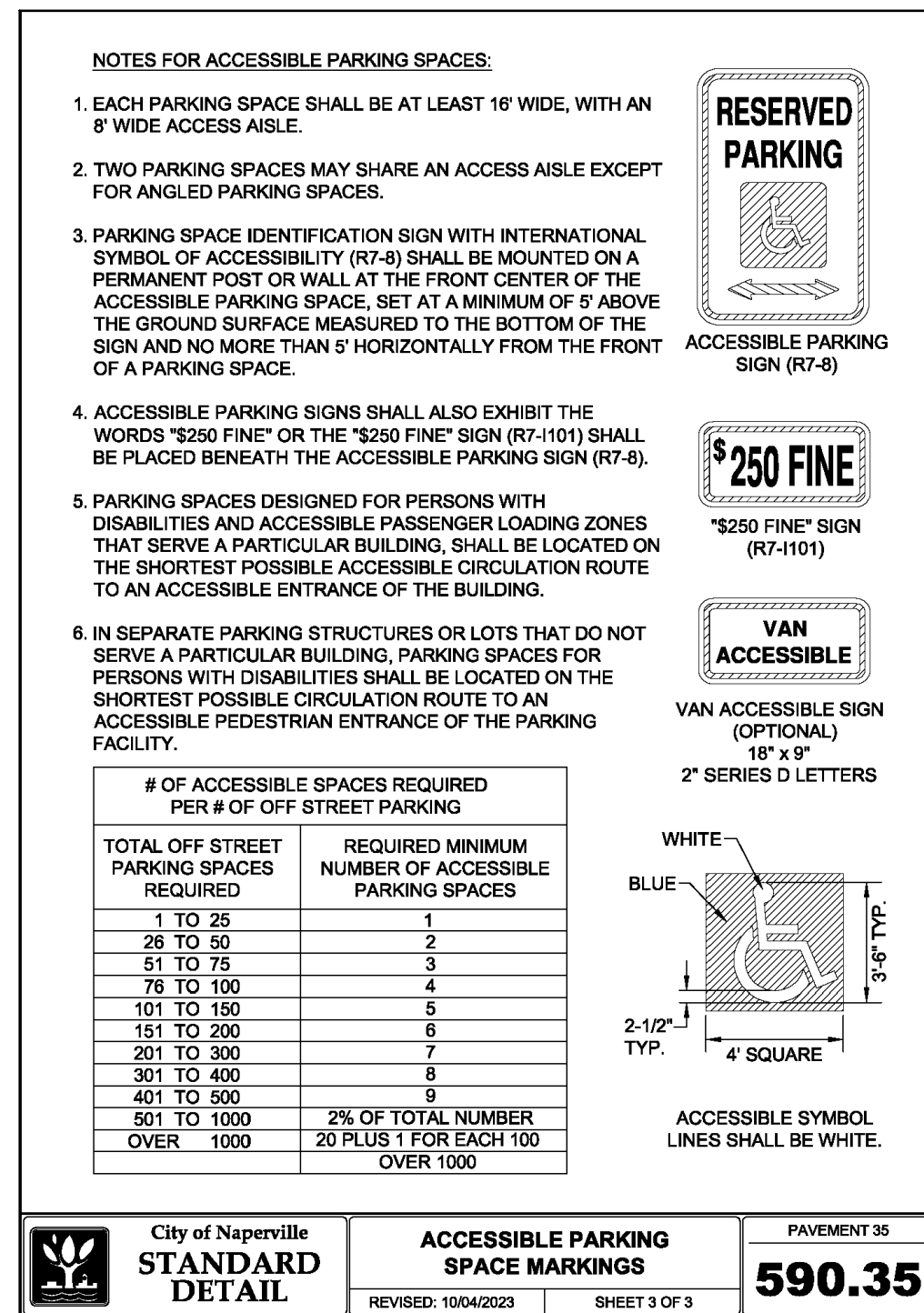
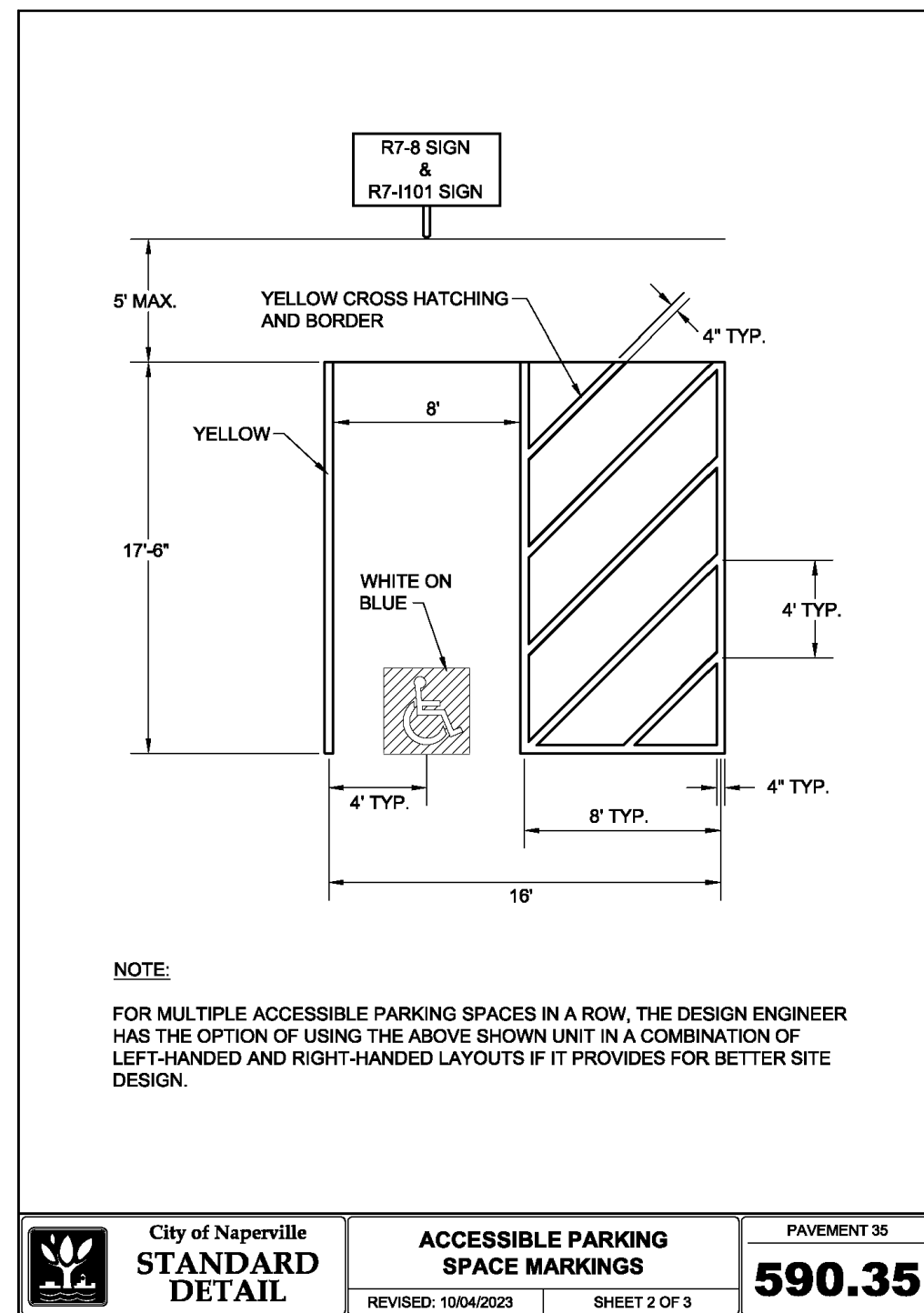
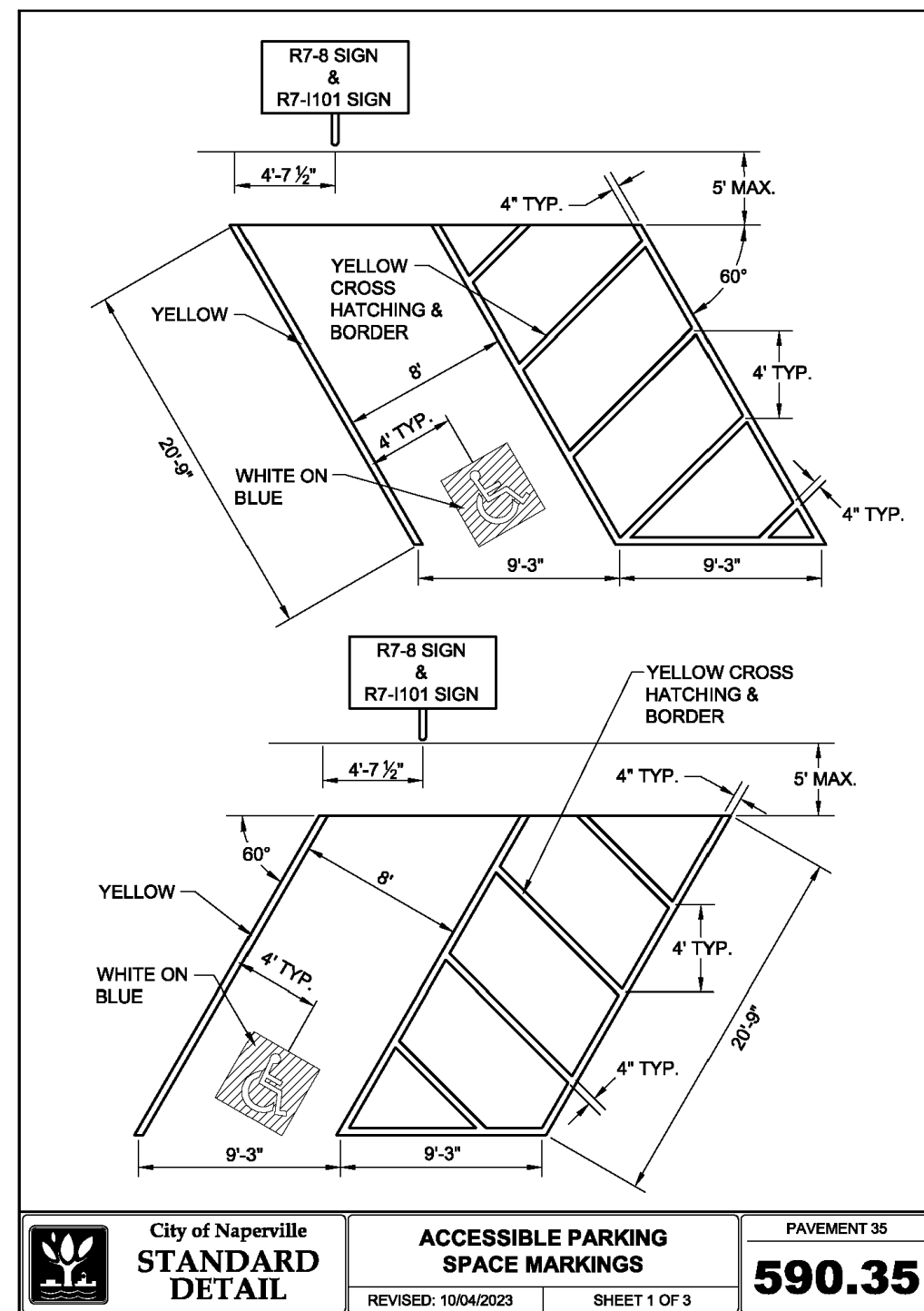
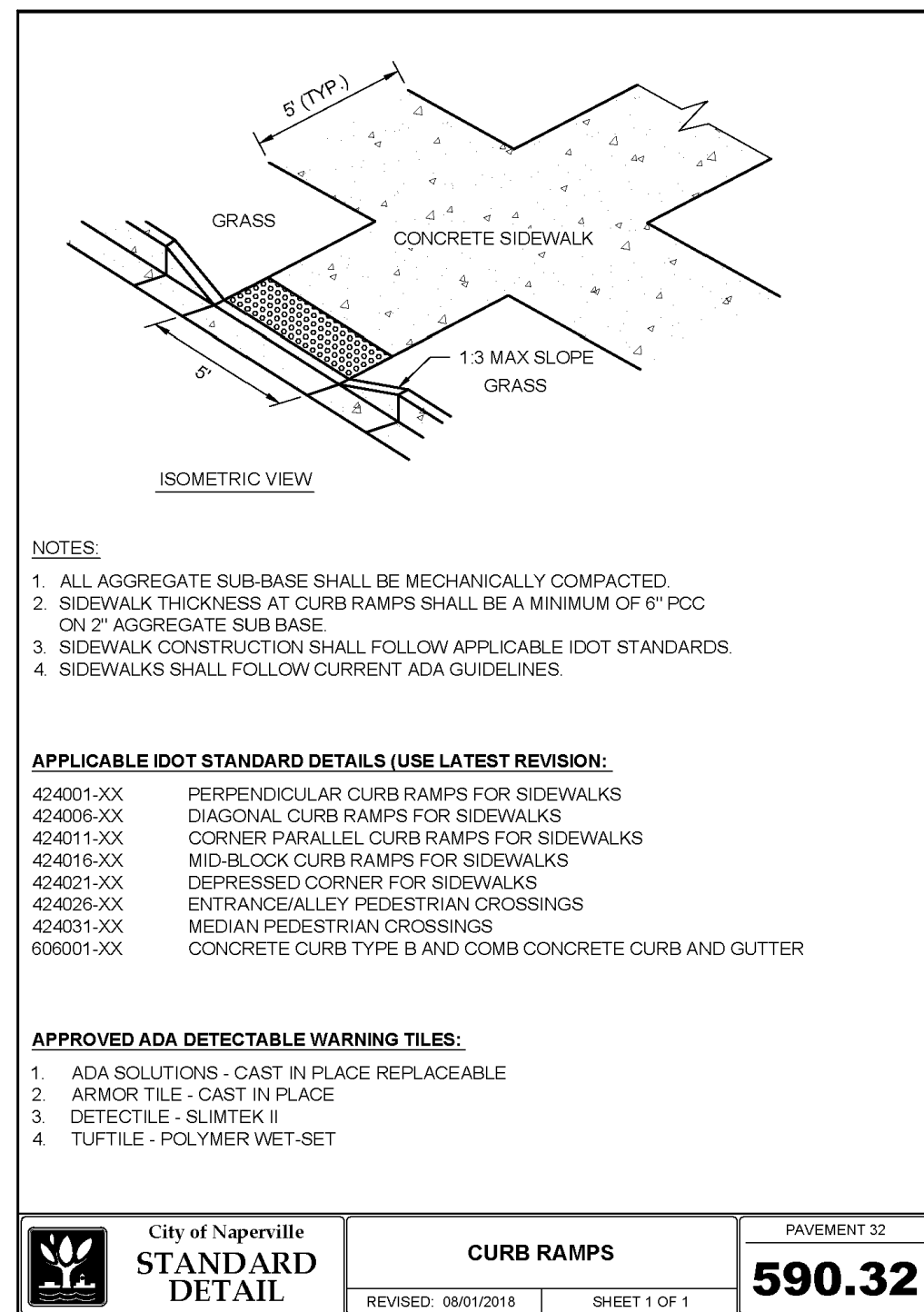
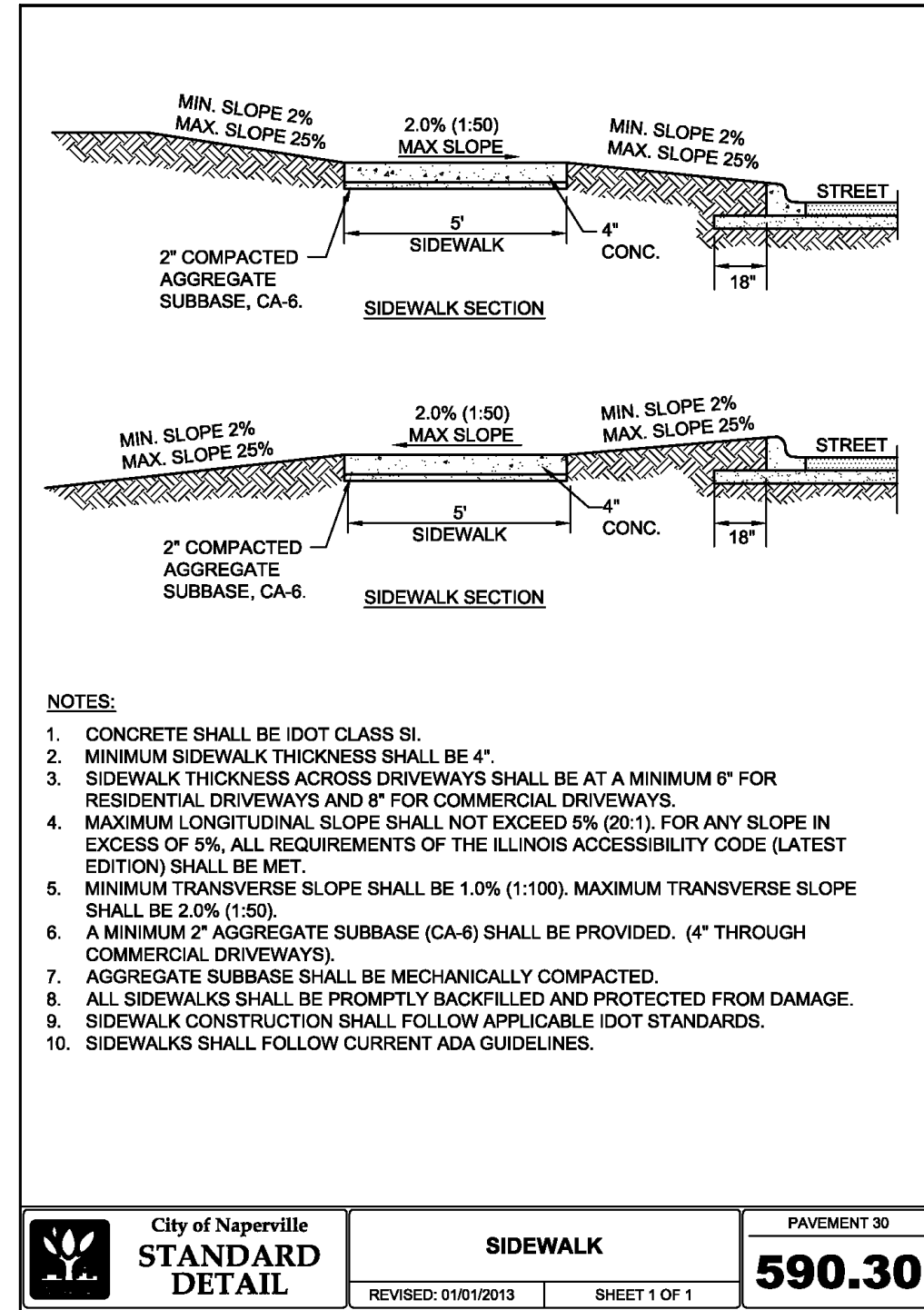
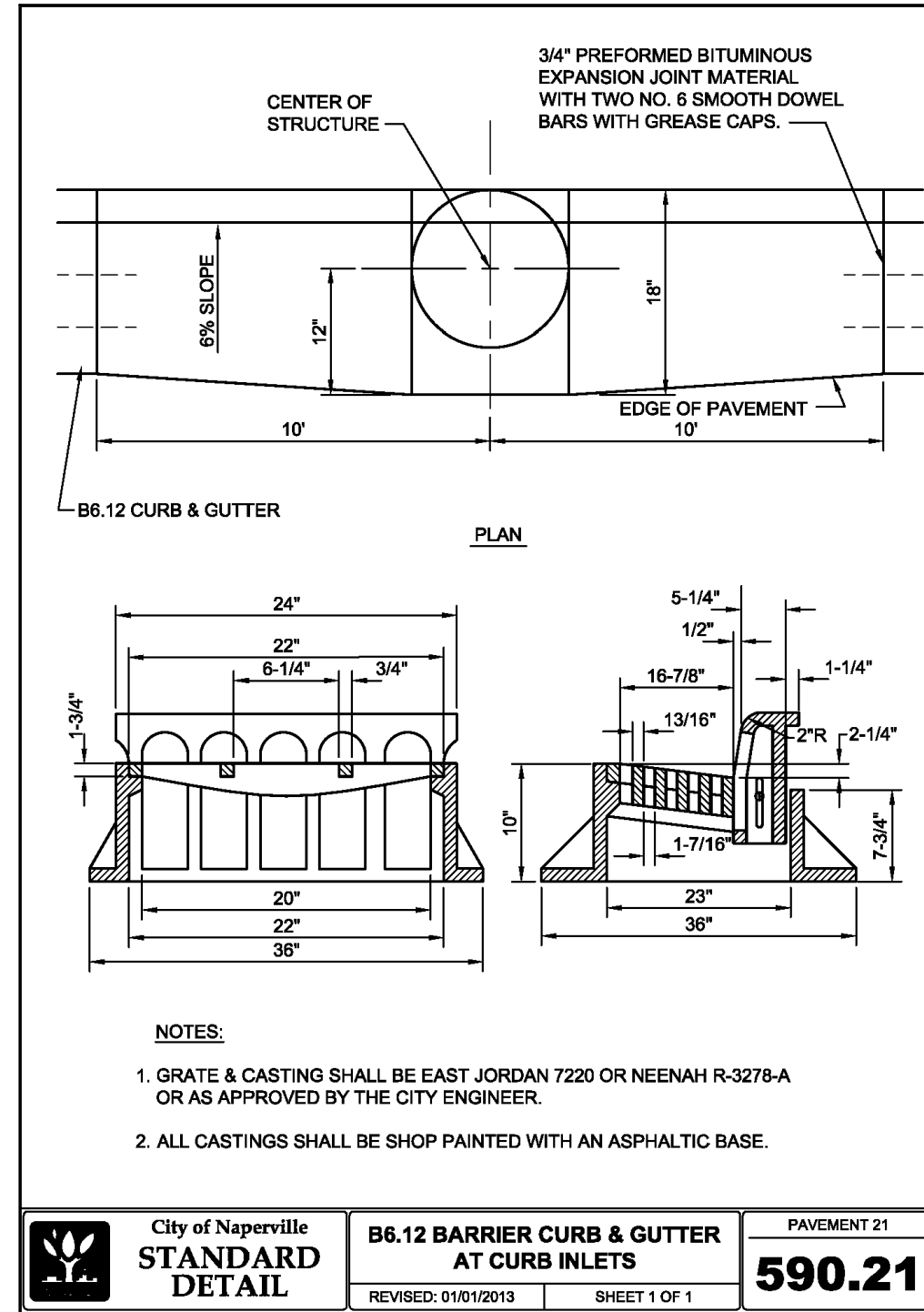
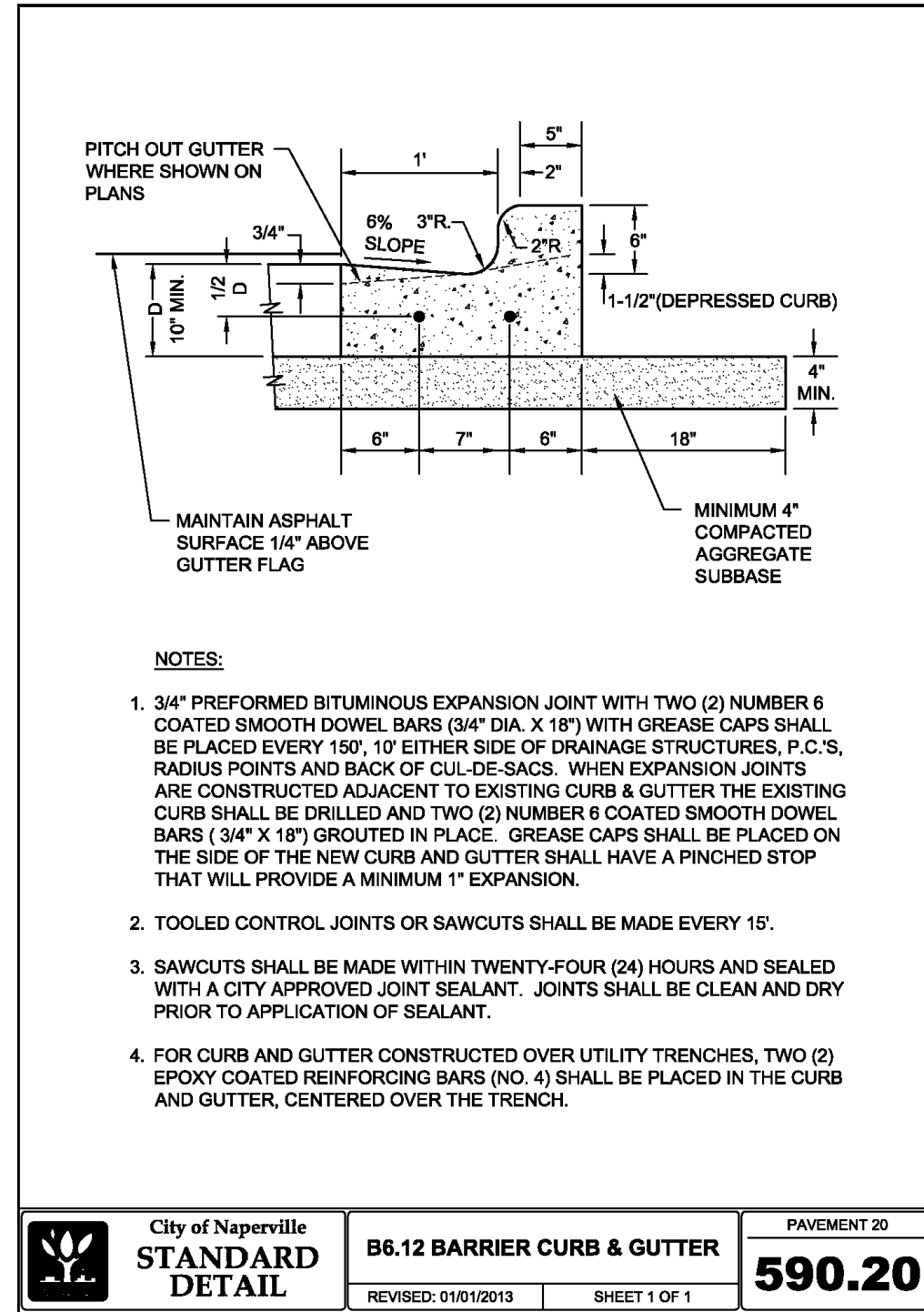
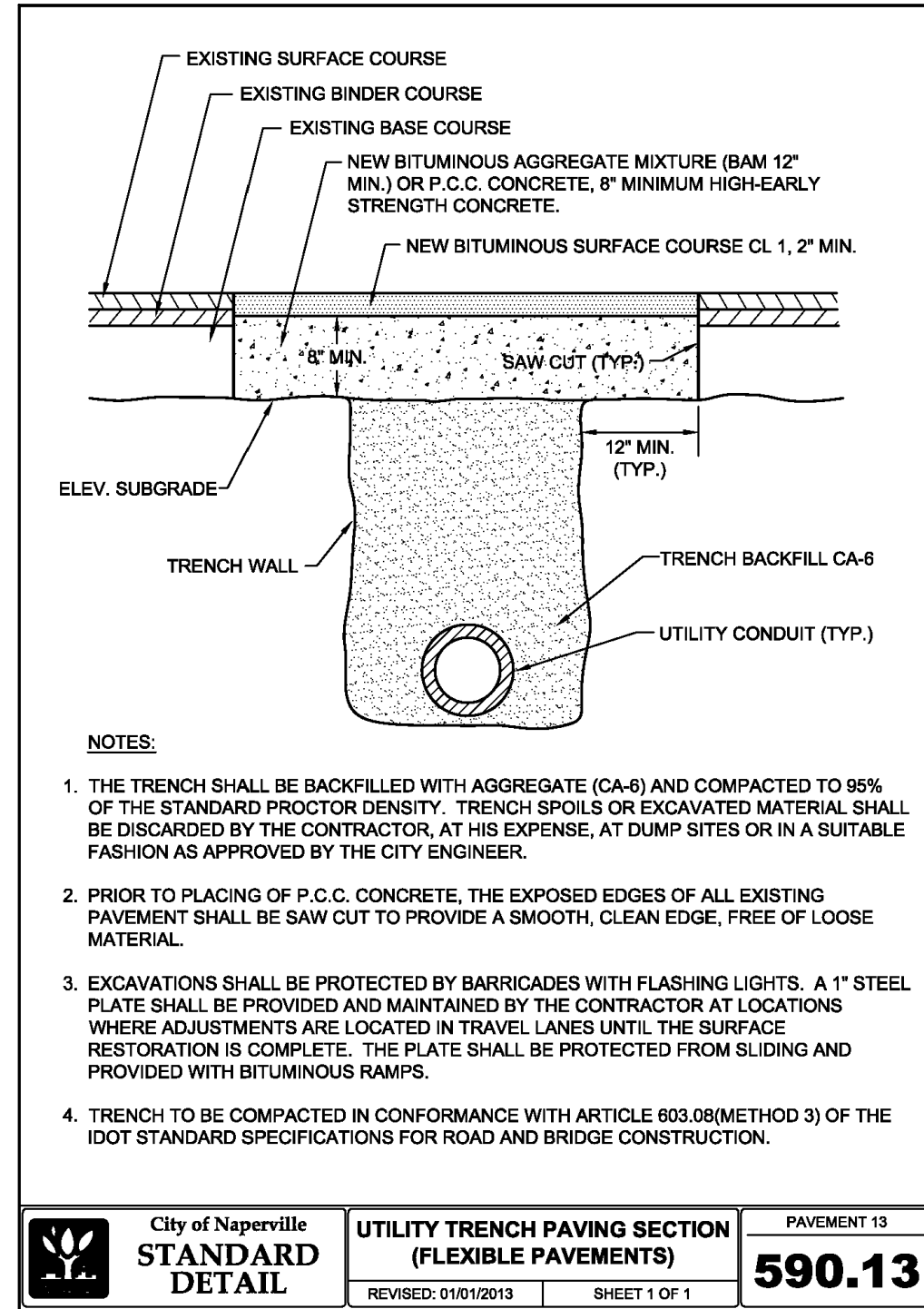
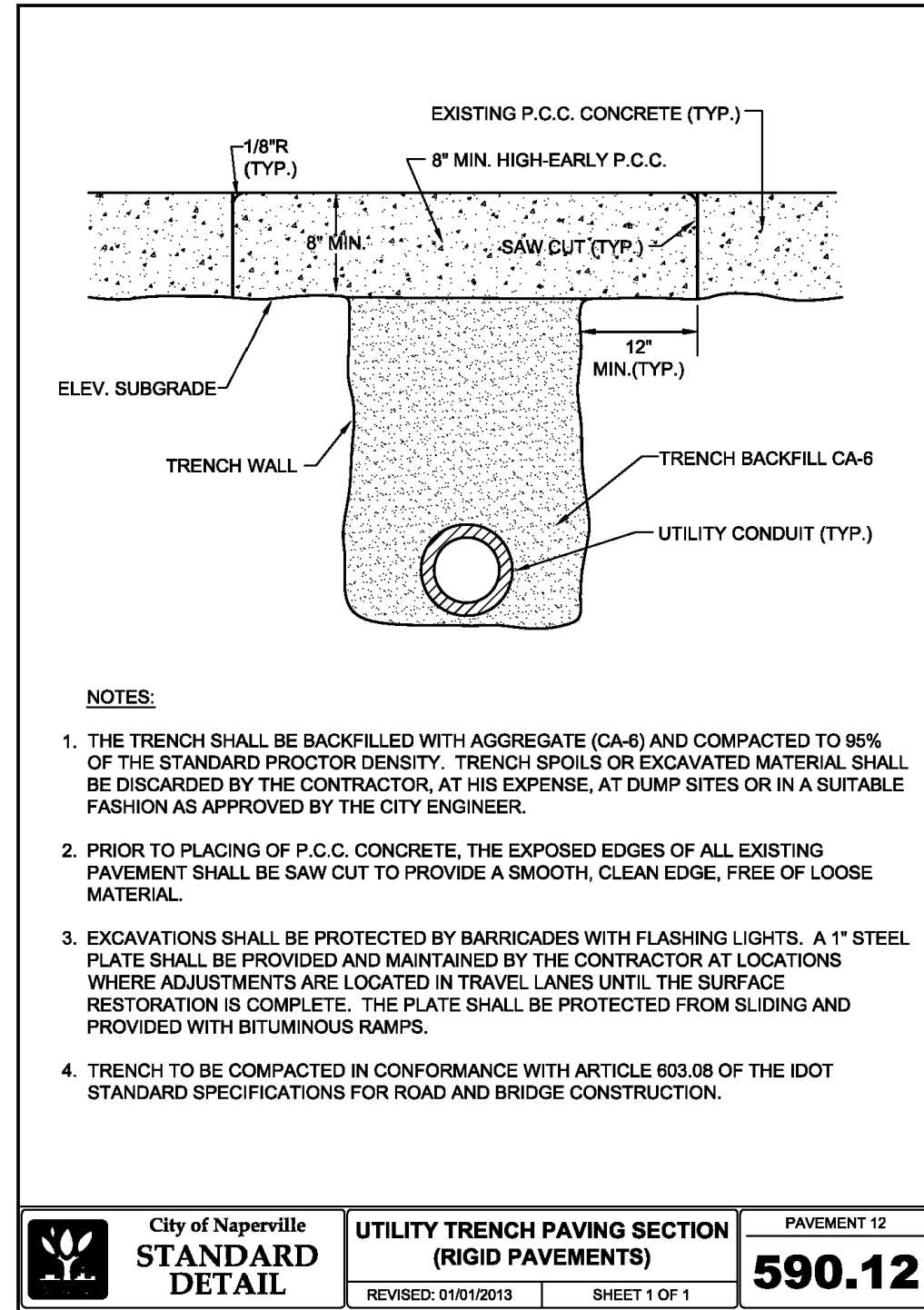


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**CITY OF NAPERVILLE STANDARD DETAILS**  
**VIEWS OF NAPERVILLE CLUBHOUSE SITE IMPROVEMENT PLANS**  
 701 ROYAL SAINT GEORGE DRIVE, NAPERVILLE, ILLINOIS

Project Manager: P A C  
 Engineer: C J B  
 Date: 03/22/2024  
 Project No. 22-028  
 Sheet **C8.0**





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**CITY OF NAPERVILLE STANDARD DETAILS**

**VIEWS OF NAPERVILLE CLUBHOUSE SITE IMPROVEMENT PLANS**

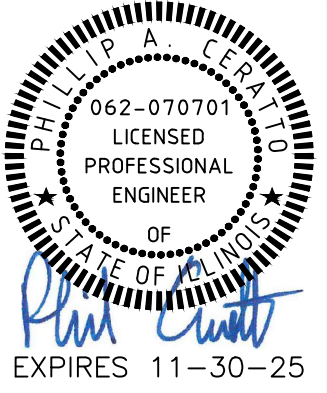
701 ROYAL SAINT GEORGE DRIVE, NAPERVILLE, ILLINOIS

Project Manager: P A C  
 Engineer: C J B  
 Date: 03/22/2024  
 Project No. 22-028  
 Sheet **C8.2** of C8

# VIEWS OF NAPERVILLE CLUBHOUSE STORM WATER POLLUTION PREVENTION PLAN

## 701 ROYAL SAINT GEORGE DRIVE, NAPERVILLE, ILLINOIS

### SECTION 13 TOWNSHIP 38 NORTH RANGE 9 EAST NAPERVILLE, ILLINOIS DuPAGE COUNTY

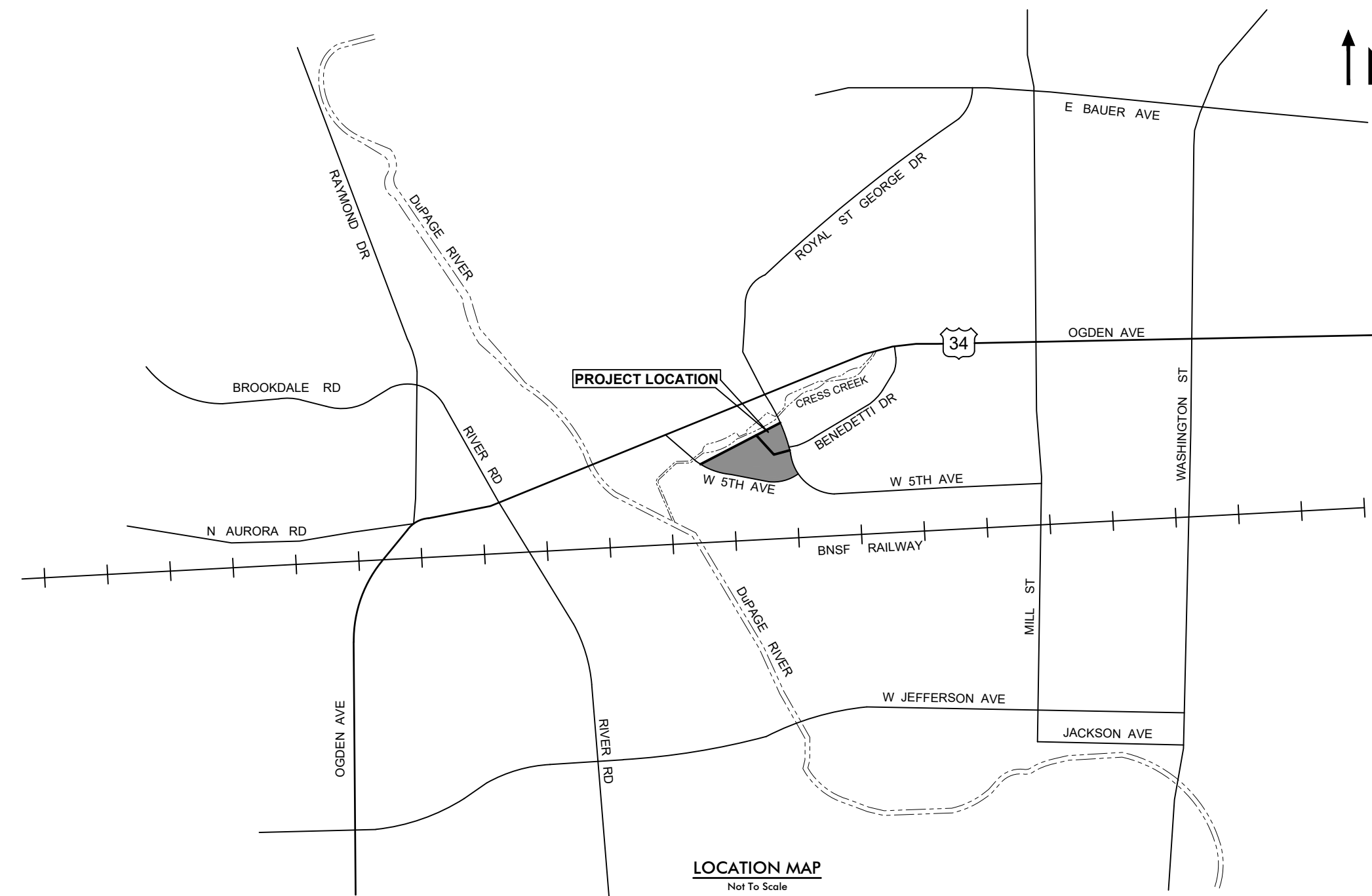


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Long Grove, IL 60047  
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Fax: 847-550-9815  
www.maemarp.com

**OWNER:**  
Views of Naperville  
701 Royal Saint George Drive  
Naperville, IL 60563  
Tel: 630-796-7720

**PREPARED BY:**  
Haeger Engineering LLC  
Illinois Prof. Design Firm #184-003152  
100 E. State Parkway  
Schaumburg, IL 60173  
Tel: 847-394-6600  
Fax: 847-394-6608  
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**CITY OF NAPERVILLE**  
400 S. Eagle Street  
Naperville, IL 60540  
Tel: 630-420-6111



**LOCATION MAP**  
Not To Scale

**BENCHMARKS:**

**City of Naperville Benchmark:**

Station No. 1506 on the northeast corner of  
5th Avenue and Mill Street

Elevation = 690.61 NAVD 88

**Site Benchmark**

CP # 2279 (see survey)  
Description: SW Bolt on Hydrant  
Elevation: 692.68 NAVD 88 (Geoid 12A)

CP # 601 (see survey)  
Description: MAG Nail  
Elevation: 701.12 NAVD 88 (Geoid 12A)

CP # 604 (see survey)  
Description: MAG Nail  
Elevation: 700.96 NAVD 88 (Geoid 12A)

CP # 605 (see survey)  
Description: MAG Nail  
Elevation: 693.82 NAVD 88 (Geoid 12A)

**INDEX TO STORM WATER POLLUTION PREVENTION PLAN SHEETS**

NO.	DESCRIPTION
EC1.0	SWPPP TITLE SHEET
EC2.0	SWPPP GENERAL NOTES & SPECIFICATIONS
EC3.0	SWPPP TYPICAL DETAILS
EC4.0	STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

Existing Symbol	Description	Proposed Symbol
	Storm Sewer Manhole	
	Catch Basin	
	Inlet	
	Flared End Section	
	Headwall	
	Area Drain	
	Sanitary Sewer Manhole	
	Clean Out	
	Storm Sewer	
	Storm Sewer Service	
	Perforated Underdrain	
	Sanitary Sewer	
	Sanitary Sewer Service	
	Combined Sewer	
	Force Main	
	Water Main	
	Water Main Service	
	Fire Hydrant	
	Valve Vault	
	Valve Box	
	B-Box	
	Well Head	
	Light Pole	
	Light Pole With Mast Arm	
	Traffic Signal	
	Traffic Signal With Mast Arm	
	Hand Hole	
	Fence	
	Guardrail	
	Pipe Bollard	
	Sign	
	Gas Valve	
	Gas Line	
	Electric Line	
	Overhead Utility Line	
	Fiber Optic Line	
	Electrical Pedestal	
	Electric Manhole	
	Guy Wire	
	Utility Pole	
	Telephone Pedestal	
	Telephone Manhole	
	Telephone Line	
	Cable TV Line	
	Cable TV Pedestal	
	Flagpole	
	Mailbox	
	Handicapped Parking Stall	
	Number of Parking Stalls	
	Curb & Gutter	
	Reverse Pitch Curb & Gutter	
	Depressed Curb	
	Retaining Wall	
	Curb Elevation and Gutter/Pavement Elevation	
	Pavement Elevation	
	Sidewalk Elevation	
	Ground Elevation	
	Top of Wall Elevation	
	Bottom of Wall Elevation	
	Open Lid Frame & Grate	
	Closed Lid Frame & Lid	
	Finish Grade	
	Garage Floor	
	Top of Foundation	
	Swale	
	Hardscape Flow	
	Softscape Flow	
	Contour Line	
	Wetland	
	Wetland Buffer	
	Normal Water Level	
	High Water Level	
	Flood Plain	
	Flood Way	
	Deciduous Tree	
	Coniferous Tree	
	Bush	
	Brushline	
	Soil Boring	
	Over Land Flow Route	
	Recommended Garage Hand With Driveway Slope	

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**SWPPP TITLE SHEET**  
**VIEWS OF NAPERVILLE CLUBHOUSE**  
**SWPPP**  
701 ROYAL SAINT GEORGE DRIVE, NAPERVILLE, ILLINOIS

Project Manager: P A C  
Engineer: C J B  
Date: 03/22/2024  
Project No. 22-028  
Sheet EC1.0 / EC4



Know what's below.  
Call before you dig.

Note:  
Call 811 at least 48 hours, excluding weekends and holidays, before you dig.

Stormwater Pollution Prevention Plan

This plan has been prepared to comply with the provisions of the NPDES Permit Number \_\_\_\_\_ issued by the Illinois Environmental Protection Agency for storm water discharges from Construction Site Activities.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Owner's Name \_\_\_\_\_ Signature \_\_\_\_\_  
Title \_\_\_\_\_ Date \_\_\_\_\_  
Name of Firm/Company \_\_\_\_\_

I. Site Description:

A. The following is a description of the project location:  
The project is located at 701 Royal Saint George Drive in Naperville, Illinois, in Section 13, Township 38 North, Range 9 East all in DuPage County. (See Location Map on Title Sheet for additional information).

B. The following is a description of the construction activity which is the subject of this plan:  
Demolition of existing clubhouse, pool, and parking lot. Construction of proposed clubhouse and pool with improvements to parking lots, underground utilities, and related improvements.

C. The following is a description of the intended sequence of major activities which will disturb soils for major portions of the construction site, such as grubbing, excavation and grading:  
Exact phasing and sequencing has yet to be determined. Generally, pavement and trees will be removed as required, and then clearing and grubbing will occur. Next, mass grading will commence for the building pad and parking areas. Then the underground utilities will be constructed. Finally, the buildings, parking lots, etc. will be constructed, followed by the installation of landscaping.

D. The total area of the construction site is estimated to be approximately +/- 1.6 acres.

E. The following is a weighted average of the runoff coefficient for this project after construction activities are completed:  
The weighted runoff coefficient after completion of all construction activities is approximately 0.69.

F. The following is a description of the soil types found at the project site followed by information regarding their erosivity:  
Please refer to the geotechnical report prepared by \_\_\_\_\_, dated \_\_\_\_\_.

G. The following is a description of potentially erosive areas associated with this project:  
Areas with side slopes exceeding 3:1 slopes. These slope areas on the site shall be stabilized with a turf reinforcement mat and hydroseeded growing media system.

H. The following is a description of soil disturbing activities, their locations, and their erosive factors (e.g. steepness of slopes, length of slopes, etc):  
The soil disturbing activities consist of grading and general infrastructure improvements over the entire site. The Contractor shall be responsible for maintaining all disturbances within the site, and shall protect all off-site areas as needed.

I. See the erosion control plans and/or drainage plans for this contract for information regarding drainage patterns, approximate slopes anticipated before and after major grading activities, locations where vehicles enter or exit the site and controls to prevent offsite sediment tracking (to be added after contractor identifies locations), areas of soil disturbance, the location of major structural and non-structural controls identified in the plan, the location of areas where stabilization practices are expected to occur, surface waters (including wetlands) and locations where storm water is discharged to surface water including wetlands.

J. The following is a list of receiving water(s) and the ultimate receiving water(s), and aerial extent of wetland acreage at the site. The location of the receiving waters can be found on the erosion and sediment control plans:  
The closest receiving water is Cress Creek.

K. The following pollutants of concern will be associated with this construction project:  
Soil sediment and dust, and construction of bituminous pavement.

II. Controls:

This section of the plan addresses the controls that will be implemented for each of the major construction activities described in I.C. above and for all use areas, borrow sites, and waste sites. For each measure discussed, the contractor will be responsible for its implementation as indicated. The contractor shall provide to the resident engineer a plan for the implementation of the measures indicated. The contractor, and subcontractors, will notify the resident engineer of any proposed changes, maintenance, or modifications to keep construction activities compliant with the permit. Each such contractor has signed the required certification on forms which are attached to, and are a part of, this plan.

A.Erosion and Sediment Controls

1. **Stabilized Practices:** Provided below is a description of interim and permanent stabilization practices, including site specific scheduling of the implementation of the practices. Site plans will ensure that existing vegetation is preserved where attainable and disturbed portions of the site will be stabilized. Stabilization practices may include but are not limited to: temporary seeding, permanent seeding, mulching, geotextiles, sodding, vegetative buffer strips, protection of trees, preservation of mature vegetation, and other appropriate measures. Except as provided below in li(A)(1)(a) and li(A)(3), stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 7 days after the construction activity in that portion of the site has temporarily or permanently ceases on all disturbed portions of the site where construction will not occur for a period of 14 or more calendar days.

a. Where the initiation of stabilization measures by the 7th day after construction activity temporarily or permanently ceases is precluded by snow cover, stabilization measures shall be initiated as soon as practicable thereafter.

The following Stabilization Practices will be used for this project: Temporary blanket & seeding, permanent seeding, as shown on the Plans.

Describe how the Stabilization Practices listed above will be utilized: Seed & blanket.

See Storm Water Pollution Prevention (SWPPP) Plan. SWPPP Plan shall be modified as necessary by the Contractor during construction to prevent sediment from leaving the site or entering the offsite storm sewer.

2. **Structural Practices:** Provided below is a description of structural practices that will be implemented, to the degree attainable, to divert flows from exposed soils, store flows or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Such practices may include but are not limited to: perimeter erosion barrier, earth dikes, drainage swales, sediment traps, ditch checks, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, and temporary or permanent sediment basins. The installation of these devices may be subject to Section 404 of the Clean Water Act.

The following Structural Practices will be used for this project: Perimeter erosion control (silt) fence and inlet protection.

Describe how the Structural Practices listed above will be utilized:

See Storm Water Pollution Prevention (SWPPP) Plan. SWPPP Plan shall be modified as necessary by the Contractor during construction to prevent sediment from leaving the site.

3. **Storm Water Management:** Provided below is a description of measures that will be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. The installation of these devices may be subject to Section 404 of the Clean Water Act.

Such practices may include but are not limited to: storm water detention structures (including wet ponds), storm water retention structures, flow attenuation by use of open vegetated swales and natural depressions, infiltration of runoff on site, and sequential systems (which combine several practices).

The practices selected for implementation were determined on the basis of the technical guidance in Chapter 41 (Construction Site Stormwater Pollution Control) of the Illinois Department of Transportation Bureau of Design and Environment Manual. If practices other than those discussed in Chapter 41 are selected for implementation or if practices are applied to situations different from those covered in Chapter 41, the technical basis for such decisions will be explained below.

b. Velocity dissipation devices will be placed at discharge locations and along the length of any outfall channel as necessary to provide a non-erosive velocity flow from the structure to a water course so that the natural physical and biological characteristics and functions are maintained and protected (e.g. maintenance of hydrologic conditions such as the hydroperiod and hydrodynamics present prior to the initiation of construction activities).

Description of Storm Water Management Controls: Installation of a storm sewer system. All inlets will be protected with silt baskets.

4. **Other Controls:**

a. Vehicle Entrances and Exits - Stabilized construction entrances and exits must be constructed to prevent tracking of sediments onto roadways.  
The contractor will provide the resident engineer with a written plan identifying the location of stabilized entrances and exits and the procedures (s/he will use to construct and maintain them).

b. Material Delivery, Storage, and Use - The following BMPs shall be implemented to help prevent discharges of construction materials during delivery, storage, and use:  
All products delivered to the project site must be properly labeled.  
• Water tight shipping containers and/or semi trailers shall be used to store hand tools, small parts, and most construction materials that can be carried by hand, such as paint cans, solvents, and grease.  
• A storage/containment facility should be chosen for larger items such as drums and items shipped or stored on pallets. Such material is to be covered by a tin roof or large sheets of plastic to prevent precipitation from coming in contact with the products being stored.  
• Large items such as light stands, framing materials and lumber shall be stored in the open in a general storage area. Such material shall be elevated with wood blocks to minimize contact with storm water runoff.  
• Spill clean-up materials, material safety data sheets, an inventory of materials, and emergency contact numbers shall be maintained and stored in one designated area and each Contractor is to inform his/her employees and the resident engineer of this location.

c. Stockpile Management - BMPs shall be implemented to reduce or eliminate pollution of storm water from stockpiles of soil and paving materials such as but not limited to portland cement concrete rubble, asphalt concrete, asphalt concrete rubble, aggregate base, aggregate sub base, and pre-mixed aggregate. The following BMPs may be considered:  
• Perimeter Erosion Barrier  
• Temporary Seeding  
• Temporary Mulch  
• Plastic Covers  
• Soil Binders  
• Storm Drain Inlet Protection

The contractor will provide the resident engineer with a written plan of the procedures (s/he will use on the project and how they will be maintained.

d. Waste Disposal. No materials, including building materials, shall be discharged into Waters of the State, except as authorized by a Section 404 permit.

e. The provisions of this plan shall ensure and demonstrate compliance with applicable State and/or local waste disposal, sanitary sewer or septic system regulations.

f. The contractor shall provide a written and graphic plan to the resident engineer identifying where each of the above areas will be located and how they are to be managed.

5. **Approved State or Local Laws**  
The management practices, controls and provisions contained in this plan will be in accordance with IDOT specifications, which are at least as protective as the requirements contained in the Illinois Environmental Protection Agency's Illinois Urban Manual, 1995. Procedures and requirements specified in applicable sediment and erosion site plans or storm water management plans approved by local officials shall be described or incorporated by reference in the space provided below. Requirements specified in sediment and erosion site plans, site permits, storm water management site plans or site permits approved by local officials that are applicable to protecting surface water resources are, upon submission of an NOI, to be authorized to discharge under permit ILR10 incorporated by reference and are enforceable under this permit even if they are not specifically included in the plan.  
Description of procedures and requirements specified in applicable sediment and erosion site plans or storm water management plans approved by local officials:  
See Storm Water Pollution Prevention (SWPPP) Plan. SWPPP Plan shall be modified as necessary by the Contractor during construction to prevent sediment from leaving the site or entering the offsite storm sewer.

III. Maintenance:

The following is a description of procedures that will be used to maintain, in good and effective operating conditions, the vegetation, erosion and sediment control measures and other protective measures identified in this plan. The resident engineer will provide maintenance guides to the contractor for the practices associated with this project.

All disturbed areas shall be graded to keep runoff and sediment on-site to the greatest extent possible. Site shall be graded in such a manner to direct runoff to storm structures with catch-all inlet protection. Contractor shall maintain, replace, clean, and add additional measures as needed during the progression of construction to prevent sediment, debris, etc. from leaving the site.

IV. Inspections:

Qualified personnel shall inspect disturbed areas of the construction site which have not yet been finally stabilized, structural control measures, and locations where vehicles and equipment enter and exit the site. Such inspections shall be conducted at least once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5 inches or greater or equivalent snowfall.

A. Disturbed areas, use areas (storage of materials, stockpiles, machine maintenance, fueling, etc.), borrow sites, and waste sites shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the plan shall be observed to ensure that they are operating correctly. Discharge locations or points that are accessible, shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of off site sediment tracking.

B. Based on the results of the inspection, the description of potential pollutant sources identified in section I above and pollution prevention measures identified in section II above shall be revised as appropriate as soon as practicable after such inspection. Any changes to this plan resulting from the required inspections shall be implemented within 1/2 hour to 1 week based on the urgency of the situation. The resident engineer will notify the contractor of the time required to implement such actions through the weekly inspection report.

C. A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of this storm water pollution prevention plan, and actions taken in accordance with section IV(B) shall be made and retained as part of the plan for at least three (3) years after the date of the inspection. The report shall be signed in accordance with Part VI. G of the general permit.

D. If any violation of the provisions of this plan is identified during the conduct of the construction work covered by this plan, the resident engineer shall notify the appropriate EPA Field Operations Section office by email at: epa\_swnoncomp@illinois.gov, telephone or fax within 24 hours of the incident. The resident Engineer shall then complete and submit an "Incidence of Noncompliance" (ION) report for the identified violation within 5 days of the incident. The resident engineer shall use forms provided by the Illinois Environmental Protection Agency and shall include specific information on the cause of noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact which may have resulted from the noncompliance. All reports of noncompliance shall be signed by a responsible authority in accordance with Part VI. G of the general permit.

The Incidence of Non-Compliance shall be mailed to the following address:  
Illinois Environmental Protection Agency  
Division of Water Pollution Control  
Attn: Compliance Assurance Section  
1021 North Grand East  
Post Office Box 19276  
Springfield, Illinois 62794-9276

V. Non-Storm Water Discharges:

Except for flows from fire fighting activities, sources of non-storm water that is combined with storm water discharges associated with the industrial activity addressed in this plan must be described below. Appropriate pollution prevention measures, as described below, will be implemented for the non-storm water component(s) of the discharge.

A. Spill Prevention and Control - BMPs shall be implemented to contain and clean-up spills and prevent material discharges to the storm drain system. The contractor shall produce a written plan stating how his/her company will prevent, report, and clean up spills and provide a copy to all of his/her employees and the resident engineer. The contractor shall notify all of his/her employees on the proper protocol for reporting spills. The contractor shall notify the resident engineer of any spills immediately.

B. Concrete Residuals and Washout Wastes - The following BMPs shall be implemented to control residual concrete, concrete sediments, and rinse water:  
• Temporary Concrete Washout Facilities shall be constructed for rinsing out concrete trucks. Signs shall be installed directing concrete truck drivers where designated washout facilities are located.  
• The contractor shall have the location of temporary concrete washout facilities approved by the resident engineer.  
• All temporary concrete washout facilities are to be inspected by the contractor after each use and all spills must be reported to the resident engineer and cleaned up immediately.  
• Concrete waste solids/liquids shall be disposed of properly.

C. Litter Management - A proper number of dumpsters shall be provided on site to handle debris and litter associated with the project. The Contractor is responsible for ensuring his/her employees place all litter including marking paint cans, soda cans, food wrappers, wood lathe, marking ribbon, construction string, and all other construction related litter in the proper dumpsters.

D. Vehicle and Equipment Cleaning - Vehicles and equipment are to be cleaned in designated areas only, preferably off site.

E. Vehicle and Equipment Fueling - A variety of BMPs can be implemented during fueling of vehicles and equipment to prevent pollution. The contractor shall inform the resident engineer as to which BMPs will be used on the project. The contractor shall inform the resident engineer how (s/he) will be informing his/her employees of these BMPs (i.e. signs, training, etc.). Below are a few examples of these BMPs:  
• Containment  
• Spill Prevention and Control  
• Use of Dip Pans and Absorbents  
• Automatic Shut-Off Nozzles  
• Topping Off Restrictions  
• Leak Inspection and Repair

F. Vehicle and Equipment Maintenance - On site maintenance must be performed in accordance with all environmental laws such as proper storage and no dumping of old engine oil or other fluids on site.

VI. Failure to Comply:

Failure to comply with any provisions of this Storm Water Pollution Prevention Plan will result in the implementation of an Erosion and Sediment Control Deficiency Deduction against the contractor and/or penalties under the NPDES permit which could be passed onto the contractor.

SUPPLEMENTARY SOIL EROSION AND SEDIMENTATION CONTROL NOTES

1. All soil erosion and sedimentation control (SESC) measures shall be installed and properly maintained in accordance with the Illinois Environmental Protection Agency's (IEPA) "Illinois Urban Manual", latest edition and "Illinois Procedures and Standards for Urban Soil Erosion and Sedimentation Control", latest edition, and shall be followed as directed by the Village/City and Engineer. In addition, on sites that will ultimately result in the disturbance of one (1) acre or more the provisions outlined in the General National Pollutant Discharge Elimination System (NPDES) General Permit No. ILR10, latest edition, shall also be followed.

2. Prior to commencement of construction, on sites that will ultimately result in the disturbance of one (1) acre or more, the Contractor shall be responsible for obtaining a copy of the notice of coverage letter and the IEPA National Pollutant Discharge Elimination System (NPDES) General Permit ILR10 from the Owner. The Owner together along with the Contractor and/or other entities if so designated by the Owner, shall be responsible for ensuring that all the requirements of the General Permit and the Storm Water Pollution Prevention Plan (SWPPP) including but not limited to the installation, maintenance as well as the installation of any additional measures necessary that may be required, and inspections of the soil erosion and sediment control measures as well as completing all of the necessary applicable certifications, reports, logs, etc. Inspections are required to be performed at least once every seven (7) calendar days and within 24 hours of the end of a storm event of 0.5 inches of rain (or equivalent snowfall) or greater. The SWPPP and all the required paperwork shall be kept on-site and be organized and ready for viewing.

3. All erosion control measures are to be installed prior to any demolition, earth moving activities or other disturbance.

4. Soil Erosion Control measures shall include the provision of an erosion control fence as required along the area of disturbance, a stabilized construction entrance, and sediment traps or other inlet protection method at each inlet or catch basin.

5. Contractor to establish a temporary stabilized construction entrance as well as install all perimeter silt fence prior to the start of any clearing or grading activities.

6. Temporary gravel stabilized construction entrance shall be maintained, adjusted, and/or relocated as necessary to prevent mud and other debris from being tracked onto adjacent public roadways. Any mud or other debris that is tracked onto a public road shall be properly removed as soon as practical, but before the end of each working day.

7. After the start of mass grading and before all storm water conveyance improvements are in place and functional, all on-site storm water shall be temporarily diverted into the detention basin or a properly constructed temporary sedimentation basin or collection device, as per local requirements, so as to prevent surface waters from flowing onto adjacent property.

8. Disturbed areas shall be stabilized by seeding within seven (7) calendar days of the completion of disturbance. If construction activity on a portion of the site is to resume within fourteen (14) calendar days of the end of the last disturbance, then stabilization measures do not have to be initiated on that portion of the site by the 7th day after the completion of said disturbance. Areas with slopes 3H:1V or greater shall be stabilized with erosion control blanket or mat in addition to seeding.

9. The Contractor shall provide adequate planning and supervision during the project construction period for implementing construction methods, processes and clean up procedures necessary to prevent water pollution and control erosion.

10. No sediment or debris shall be allowed to enter the existing storm sewer system or flow off-site.

11. All temporary and permanent erosion and sedimentation control measures shall be maintained, repaired and/or replaced as necessary to ensure effective performance. If required, a designated erosion control inspector shall inspect all measures every seven (7) calendar days, or within twenty-four (24) hours of a 0.5-in-rain event or equivalent snowfall, and report where items are in non-compliance. Otherwise, the Contractor shall be responsible for the inspection as well as maintenance of all measures and shall be subject to the terms of Federal, State, and local requirements.

12. All temporary erosion and sedimentation control measures are to remain in place and be functioning until final stabilization. After final stabilization, the Contractor is to remove and properly dispose of all erosion and sedimentation measures according to Jurisdictional Agency requirements within thirty (30) days. All disturbed areas or trapped sediment that accumulates from said measures shall be permanently stabilized.

13. Topsoil stockpiles shall not be located in flood prone areas or buffers protecting wetlands, or waters of the United States or County. Stockpiles shall be protected from erosion by installing silt fence around the perimeter of the stockpile(s). Stockpiles shall be seeded within seven (7) calendar days of completion.

14. If dewatering services are used, adjoining properties and discharge locations shall be protected from erosion. Discharges shall be routed through an effective sediment control measure (i.e., sediment trap, sediment basin, or other appropriate measure).

15. All storm sewers, drainage structures, catch basin sumps and/or retention/detention/sedimentation basins provided within this project are to be cleaned at the end of construction and prior to final acceptance. Cleaning may also be required during the course of construction if it is determined that the structures are not properly functioning and their performance is impaired.

16. Storm water conveyance swales, channels, streams or similar, if disturbed, are to be stabilized within 48 hours after the end of active disturbance.

17. Extreme caution shall be taken by the Contractor to prevent erosion and siltation during construction. The Contractor shall inspect catch basins and clean out if necessary. The Contractor shall use silt/erosion control fence staked in place to prevent siltation of all drainage structures.

18. The Contractor shall water the site, as required during dry weather to control dust.

19. Erosion Control Maintenance and Replacement Notes:  
a. Silt fences are to be cleaned as required during the course of the construction of the project or if the Engineer determines that they are not properly functioning and their performance is impaired.  
b. Sediment traps and basins shall be inspected immediately after each rainfall and at least daily during prolonged rainfall. Any required repairs shall be made immediately.  
c. Should the fabric decomposed or become ineffective prior to the end of the expected life and the barrier still be necessary, the fabric shall be replaced promptly.  
d. Sediment deposits should be removed after each storm event. They must be removed when deposits reach approximately half the height of the barrier.  
e. Mud or dust which is deposited on adjacent roadways shall be removed at the end of each day.  
20. The sediment and erosion control measures indicated on the plans are the minimum requirements. Additional measures may be required, as directed by the Engineer or Jurisdictional Agency.  
21. The Contractor shall assume responsibility for maintenance of all soil erosion and sedimentation control measures during and after construction. However, the Contractor shall not transfer these improvements for the purpose of maintenance until they have completed with the above and until they have received final inspection and approval from the Jurisdictional Agency or designated erosion control inspector and a Notice of Termination has been filed (NOT).

CITY OF NAPERVILLE EROSION CONTROL AND DRAINAGE NOTES  
(City of Naperville Erosion Control and Drainage Notes section shall override the Soil Erosion and Sedimentation Control General Notes section for any conflicts.)

1. The contractor shall maintain proper drainage at all times during the course of construction and prevent storm water from running into or standing in excavated areas.  
2. During extended dry periods, the construction area(s) may need to be watered down to prevent the blowing of soil from the site.  
3. During construction, a stabilized construction entrance shall be utilized to minimize the tracking of dirt onto the public streets. It is the contractor's responsibility to keep public street pavement clean of dirt and debris. Any dirt that is tracked onto the public streets shall be removed the same day. If the amount tracked on the public street is excessive, cleaning may be required more frequently.  
4. All erosion control measures shall be properly installed, as permitted, prior to any land disturbance activities. All erosion control shall be maintained until turf is established.  
5. Stockpiles not being disturbed for more than 14 days shall be seeded.  
6. All erosion control measures shall be inspected weekly, after any 0.5 inch rainfall, or more frequently as necessary to maintain their function.

Owner/Contractor Certification Statement

This certification statement is part of the Storm Water Pollution Prevention Plan for the Views of Naperville Clubhouse project, in accordance with General NPDES Permit No. \_\_\_\_\_ issued by the Illinois Environmental Protection Agency.

I certify under penalty of law that I understand the terms of the general National Pollutant Discharge Elimination System (NPDES) permit (ILR 10) that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification.

In addition, I have read and understand all of the information and requirements stated in the Storm Water Pollution Prevention Plan for the above mentioned project. I have provided all documentation required to be in compliance with the ILR10 and Storm Water Pollution Prevention Plan and will provide timely updates to these documents as necessary.

Name \_\_\_\_\_ Signature \_\_\_\_\_  
Title \_\_\_\_\_ Date \_\_\_\_\_  
Name of Firm/Company \_\_\_\_\_ Telephone \_\_\_\_\_  
Address \_\_\_\_\_ City/State/Zip \_\_\_\_\_

The Owner, and all Contractor's and Sub-Contractor's performing work on this site are required to sign the above illustrated Certification Statement. The signed Certification shall be maintained on the site with the SWPPP.

SWPPP GENERAL NOTES & SPECIFICATIONS

Views of Naperville Clubhouse

SWPPP

701 ROYAL SAINT GEORGE DRIVE, NAPERVILLE, ILLINOIS

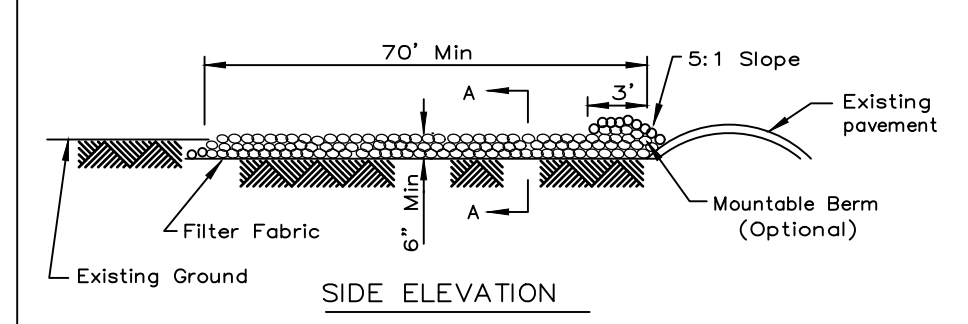
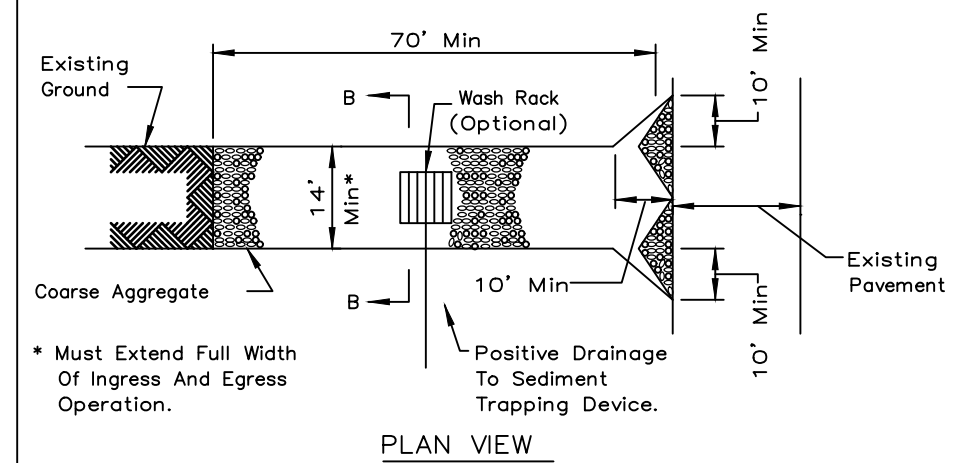
Project Manager: P A C  
Engineer: C J B  
Date: 03/22/2024  
Project No. 22-028  
Sheet EC.2.0 / EC4

Revision  
Date  
No.

HAEGER ENGINEERING  
consulting engineers • land surveyors  
100 East State Parkway, Schaumburg, IL 60173 • Tel: 847.394.6000 • Fax: 847.394.6498  
Illinois Professional Design Firm License No. 184-003152  
www.haegerengineering.com

Plot Date: May 23, 2024 - 9:26am Plotted By: phil.c  
File Name: P:\0222\22028(Dwgs)\Final Engineering\22028-SWPPP.dwg

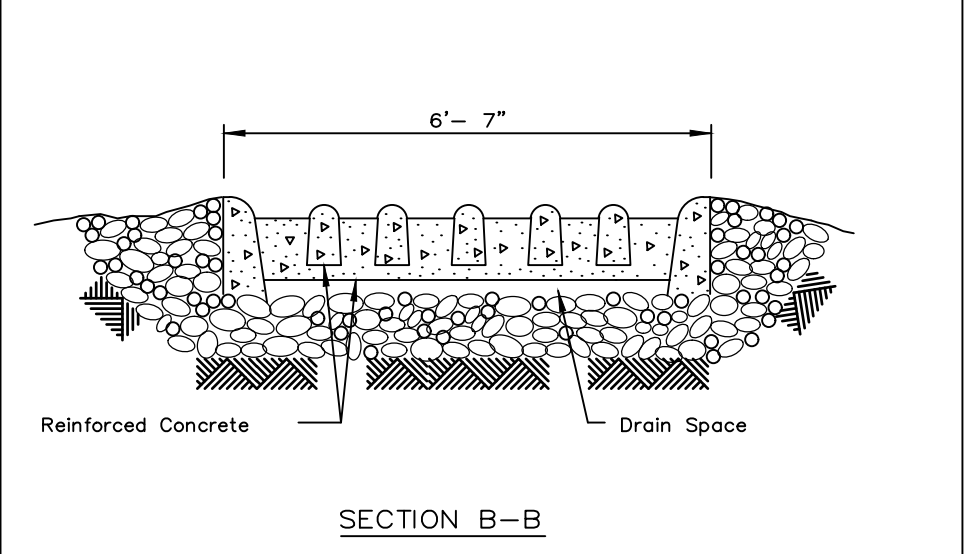
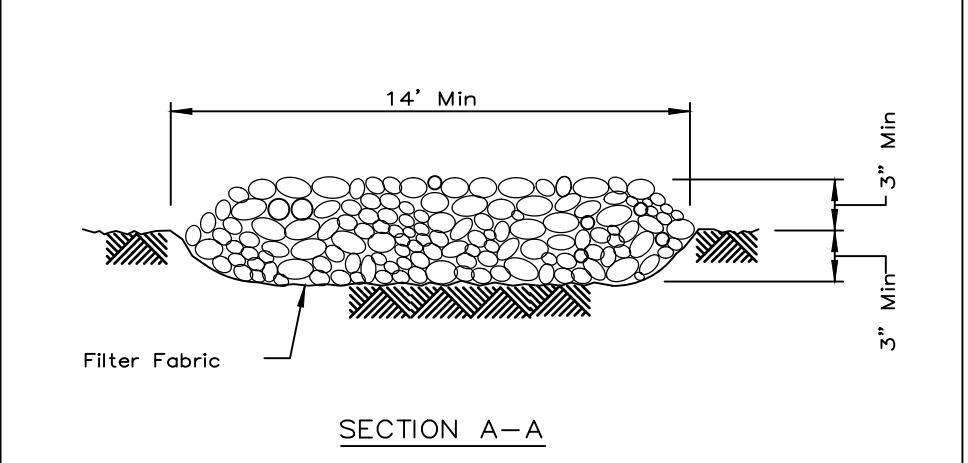
**STABILIZED CONSTRUCTION ENTRANCE PLAN**



**NOTES:**  
 1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table 1 or 2, Class I call and shall be placed over the cleared area prior to the placing of rock.  
 2. Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradation, CA-1, CA-2, CA-3 or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.  
 3. Any drainage facilities required because of washing shall be constructed according to manufacturers specifications.  
 4. If wash racks are used they shall be installed according to the manufacturers specifications.

Project	Date	U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE ILLINOIS	STANDARD DWG. NO. IL-630 SHEET 1 OF 2 DATE 8-18-24
Designed	Date		
Checked	Date		
Approved	Date		

**STABILIZED CONSTRUCTION ENTRANCE PLAN**



Project	Date	U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE ILLINOIS	STANDARD DWG. NO. IL-630 SHEET 2 OF 2 DATE 8-18-24
Designed	Date		
Checked	Date		
Approved	Date		

**TEMPORARY CONCRETE WASHOUT FACILITY - BARRIER WALL**

**NOTES:**  
 1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardened concrete and/or returning the facilities to a functional condition.  
 2. Facility shall be cleaned or reconstructed in a new area once washout becomes non-trip safe.

Project	Date	U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE ILLINOIS	STANDARD DWG. NO. IL-630 SHEET 2 OF 2 DATE 8-18-24
Designed	Date		
Checked	Date		
Approved	Date		

**TEMPORARY EROSION CONTROL MEASURE - SILT FENCE**

**NOTES:**  
 1. TEMPORARY SILT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED. THEY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.  
 2. FILTER FABRIC SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION 592 GEOTEXTILE TABLE 1 OR 2, CLASS I WITH EQUIVALENT OPENING SIZE OF AT LEAST 30 FOR NON-WOVEN OR 50 FOR WOVEN.  
 3. FENCE POSTS SHALL BE EITHER STANDARD STEEL POST OR WOOD POST WITH A MINIMUM CROSS-SECTIONAL AREA OF 3.0 SQ. IN.  
 4. DEPENDING UPON THE CONFIGURATION, ATTACH FABRIC AND WIRE MESH WITH HOG RINGS, STEEL POST WITH THE WIRES, WOOD POST WITH NAILS.

City of Naperville <b>STANDARD DETAIL</b>	TEMPORARY EROSION CONTROL MEASURE - SILT FENCE REVISED: 01/01/2013 SHEET 1 OF 2	LANDSCAPE 3 <b>790.03</b>
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**TEMPORARY EROSION CONTROL MEASURE - SILT FENCE**

**NOTES:**  
 1. TEMPORARY SILT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED. THEY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.  
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City of Naperville <b>STANDARD DETAIL</b>	TEMPORARY EROSION CONTROL MEASURE - SILT FENCE REVISED: 01/01/2013 SHEET 2 OF 2	LANDSCAPE 3 <b>790.03</b>
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**SOIL PROTECTION CHART**

Stabilization Type	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Permanent Seeding			A			*	*		*			
Dormant Seeding	B										B	
Temporary Seeding			C				D					
Sodding			E**									
Mulching	F											

**KEY:**  
 A KENTUCKY BLUEGRASS 90 LBS/AC MIXED WITH PERENNIAL RYE GRASS 30 LBS/AC  
 B KENTUCKY BLUEGRASS 135 LBS/AC MIXED WITH PERENNIAL RYE GRASS 45 LBS/AC + 2 TONS STRAW MULCH PER AC  
 C SPRING OATS 100 LBS/AC  
 D WHEAT OR CEREAL RYE 150 LBS/AC  
 E SOD  
 F STRAW MULCH 2 TONS/AC

\*\* IRRIGATION NEEDED DURING JUNE, JULY AND SEPTEMBER  
 \*\* IRRIGATION NEEDED FOR 2-3 WEEKS AFTER SODDING

**STOCKPILE PROTECTION DETAIL**

**TRENCH DRAIN INLET PROTECTION**

**INLET SILT BASKET CATCH-ALL**

**GENERAL NOTES:**  
 FRAME: Top flange fabricated from 1/2" x 1/2" x 1/2" angle. Base rim fabricated from 1/2" x 1/2" x 1/2" channel. Handles and suspension brackets fabricated from 1/2" x 1/2" flat stock. All domestic steel conforming to ASTM-A36.  
 SEDIMENT BAG: Bag fabricated from 4 oz./sq.yd. non-woven polypropylene geotextile reinforced with polyester mesh. Bag secured to base rim with a stainless steel strap and lock. All storm structures must have either a curb silt basket catch-all or an inlet silt basket catch-all inserted prior to construction.

**TEMPORARY SEEDING NOTES (ILLINOIS URBAN MANUAL CODE 965)**

This practice applies to all cleared, unvegetated, or sparsely vegetated soil surfaces where vegetative cover is needed for less than 1 year. Applications of this practice include diversions, dams, temporary sediment basins, temporary road banks, topsoil/city stockpiles and any other exposed areas of a construction site.

**Plant selection** - Select plants appropriate to the season and site conditions from Table 1.

**Site preparation** - Prior to seeding, install necessary erosion control and sediment control practices if possible. Remove large rocks or other debris that may interfere with seedbed preparation or seeding operations.

**Seedbed preparation:**  
 1. Liming: Where the pH of the soil is below 5.5, apply one and one half to two tons per acre of finely ground agricultural limestone. If the seeding period is less than 30 days liming will not be required.  
 2. Fertilizer: Apply 500 pounds per acre of 10-10-10 fertilizer or equivalent. Incorporate time and fertilizer into the top 2 - 4 inches of soil. If the seeding period is less than 30 days fertilizer will not be required.  
 3. Prepare a seedbed of loose soil to a depth of 3 to 4 inches. If recent tillage or grading operations have resulted in a loose surface, additional tillage or roughening may not be required except to break up large clods. If rainfall caused the surface to become sealed or crusted, loosen it just prior to seeding by disking, raking, harrowing, or other suitable methods. Groove or furrow slopes steeper than 3:1 on the contour before seeding.

**Seeding** - Seed shall be evenly applied with a cyclone seeder, drill, cultipacker seeder or hydroseeder. Small grains shall be planted no more than one inch deep. Grasses shall be planted no more than one half inch deep.

**Cover broadcast seedings** by cultipacking, dragging a harrow, or raking.

Temporary seeding provides protection for no more than 1 year, during which time permanent stabilization should be initiated. Permanent seeding shall conform to the Permanent Seeding (Code 880) of the Illinois Urban Manual Practice Standards.

Reseed areas where seeding emergence is poor, or where erosion occurs, as soon as possible. Protect from vehicular and foot traffic. Control weeds by mowing.

Species	Lbs./Acre	Lbs./1000 sq. ft.	Seeding Dates
Oats	90	2	Early spring - July 1
Cereal Rye	90	2	Early spring - Sept. 30
Wheat	90	2	Early spring - Sept. 30
Perennial Ryegrass	25	0.6	Early spring - Sept. 30

**CONSTRUCTION SEQUENCE**

CONSTRUCTION SEQUENCE AND RESPONSIBLE CONTRACTOR	GRADING CONTRACTOR	UNDERGROUND CONTRACTOR	PAVING CONTRACTOR	LANDSCAPE CONTRACTOR
1. INSTALL SEDIMENT CONTROL MEASURES - DITCH CHECKS - EROSION CONTROL FENCE - SEDIMENT BASIN - STABILIZED CONSTRUCTION ENTRANCE - TEMPORARY SWALES - SPECIFIED STORM SEWER LINES				
2. GRADE SITE/STOCKPILE TOPSOIL				
3. INSTALL STORMWATER MANAGEMENT MEASURES - CONTROL MEASURES - SEDIMENT TRAP INLET PROTECTION - DITCH/SWALES				
4. TEMPORARY VEGETATIVE STABILIZATION - CONTROL MEASURES - TEMPORARY SEEDING - MULCHING				
5. INSTALL ROAD SUBGRADE - AGGREGATE COVER				
6. SITE CONSTRUCTION WORK - CURB AND GUTTER - PAVING (WALKS & BIKEPATHS)				
7. VEGETATIVE COVER ON ALL AREAS TO BE EXPOSED LONGER THAN 60 DAYS - TEMPORARY SEEDING				
8. SURFACE ROADS - PAVING				
9. PERMANENT VEGETATIVE STABILIZATION OF ALL EXPOSED AREAS - PERMANENT SEEDING - SODDING				
10. INSTALL PERMANENT LANDSCAPING				
11. PERFORM CONTINUING MAINTENANCE				

**SILT WORM (AS SPECIFIED)**

**NOTES:**  
 MAINTENANCE OF SILT WORM PER MANUFACTURER'S RECOMMENDATIONS

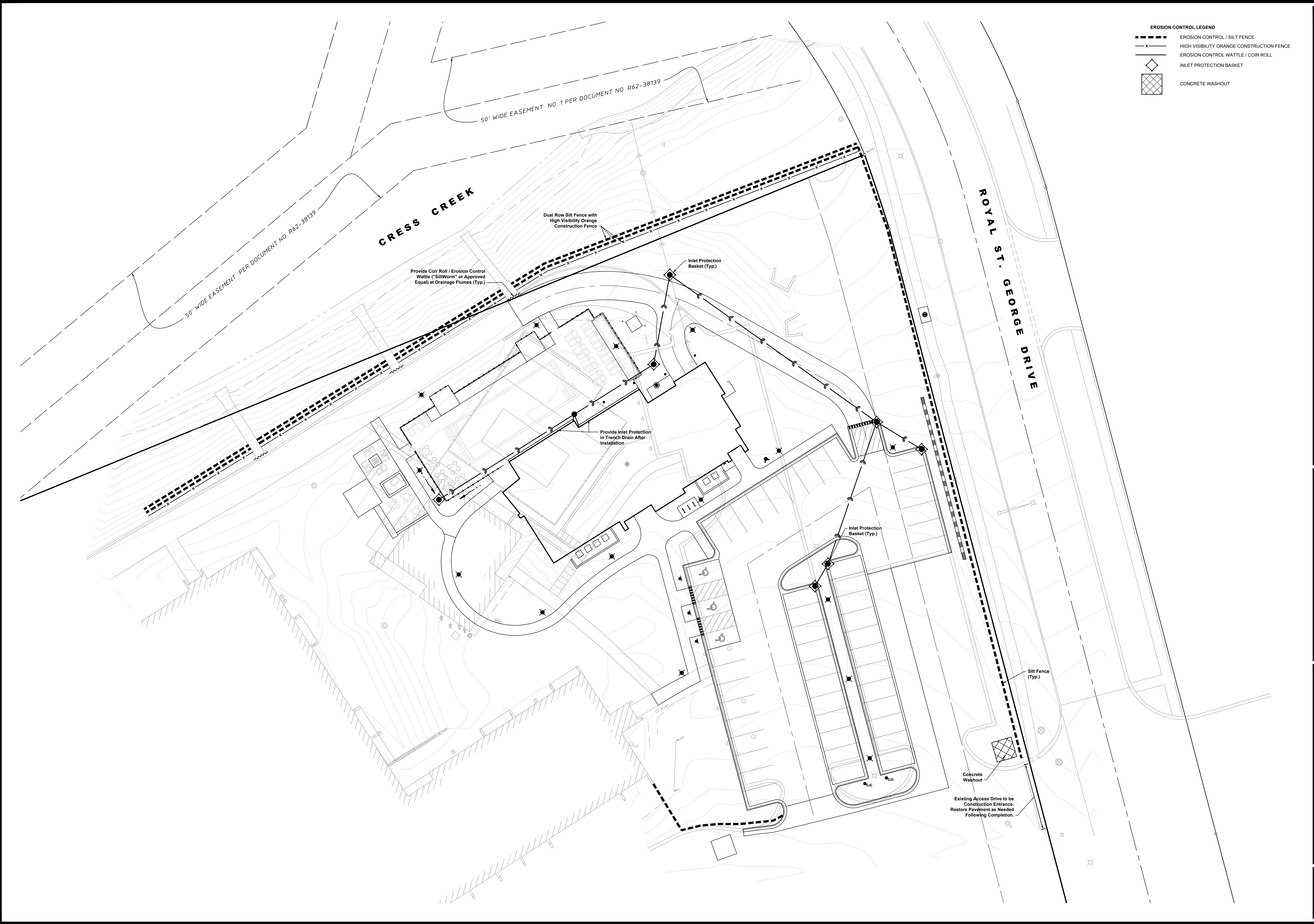
**SILT WORM**  
 by Moore & Moore Erosion Control  
 WWW.SILT WORM.COM

**1" = 1'-0"**

**TREE PROTECTION**

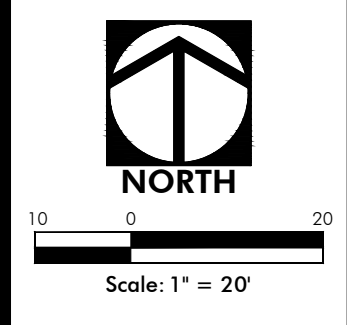
**NOTES:**  
 1. A TREE PROTECTION AREA SHALL BE ESTABLISHED AROUND A TREE A DISTANCE OF ONE FOOT FOR EACH ONE INCH OF TREE DIAMETER, UP TO A MAXIMUM OF 30 FEET.  
 2. PROTECTIVE TREE FENCE SHALL BE INSTALLED AT THE LIMITS OF THE TREE PROTECTION AREA. THE FENCE SHALL BE HIGH ENOUGH SO AS TO BE VISIBLE TO ALL CONSTRUCTION PERSONNEL.  
 3. GRADE CHANGES, UTILITY TRENCHES, STORAGE OF CONSTRUCTION MATERIAL, DUMPING OF WASTE, OR OPERATION OR STORAGE OF ANY EQUIPMENT SHALL NOT BE ALLOWED WITHIN THE TREE PROTECTION AREA.  
 4. AUGURING IS REQUIRED IF A UTILITY MUST BE INSTALLED WITHIN THE TREE PROTECTION AREA. AUGURED UTILITIES MUST BE A MINIMUM OF 24 INCHES BELOW GRADE.  
 5. ALL TREES TO BE SAVED WHICH HAVE BEEN SUBJECTED TO CONSTRUCTION ACTIVITY WITHIN THE TREE PROTECTION AREA SHOULD BE SELECTIVELY THINNED 10% BY AN ARBORIST SKILLED AT THE SELECTIVE THINNING PROCEDURE. NONE OF THE TREES SHALL BE TOPPED, HEADED BACK, SKINNED (REMOVAL OF THE INTERIOR BRANCHES), OR CLIMBED WITH SPIKES. ALL DEAD WOOD SHOULD BE REMOVED TO AVOID HAZARD.  
 6. IT IS RECOMMENDED THAT FOLLOWING CONSTRUCTION, TREES BE MAINTAINED IN THEIR NATIVE CONDITION. NO LAWN SHOULD BE PLACED AROUND THE TREES. IT IS RECOMMENDED THAT THE AREA BE MULCHED WITH 2 INCHES OF DECOMPOSED LEAVES AND 2 INCHES OF WOOD CHIPS OR BARK.

City of Naperville <b>STANDARD DETAIL</b>	TREE PROTECTION REVISED: 08/01/2018 SHEET 1 OF 1	LANDSCAPE 10 <b>790.10</b>
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**EROSION CONTROL LEGEND**

	EROSION CONTROL / SILT FENCE
	HIGH VISIBILITY ORANGE CONSTRUCTION FENCE
	EROSION CONTROL WATTLE / COIR ROLL
	INLET PROTECTION BASKET
	CONCRETE WASHOUT



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 www.haegerengineering.com

**STORM WATER POLLUTION PREVENTION PLAN (SWPPP)**  
**VIEWS OF NAPERVILLE CLUBHOUSE SWPPP**  
 701 ROYAL SAINT GEORGE DRIVE, NAPERVILLE, ILLINOIS

Project Manager:	P A C
Engineer:	C J B
Date:	03/22/2024
Project No.:	22-028
Sheet:	<b>EC4.0</b>

REVISED PER CITY REVIEW

Date

No.

1

05/02/2024

EC4