



Ontario County Public Works

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HIGHWAYS ~ ENGINEERING ~ WASTEWATER SYSTEMS & SEWERS ~ BUILDINGS & GROUNDS ~ PARKS ~ PUBLIC WORKS FINANCE

April 5, 2019

Mr. David Cox, P.E.
Passero Associates
100 Liberty Pole Way
Rochester, New York 14604

Re: Royal Car Wash
Route 332, Canandaigua

Dear Mr. Cox:

We have reviewed the plans for the above referenced project dated March 2019, sent by the Town of Canandaigua Development Office on March 18, 2019 and hereby submit the following preliminary comments:

GENERAL

1. Provide calculations for the anticipated daily flow from your client's business.

EXISTING CONDITIONS & DEMOLITION PLAN

2. There is an existing 4" lateral servicing the property approximately 45' downstream of the manhole adjacent to the southeast property corner (a sketch from the maintenance staff is attached for your use). That lateral is required to be abandoned in the presence of District personnel. Depending on the location of the abandonment, an asbestos abatement may be required.

UTILITY PLAN

3. Revise the notation on the existing sanitary sewer main from "8" PVC" to "8" ACP".
4. Revise the new lateral connection "Core and Connect..." note to indicate that the connection must be made by cutting the main and installing an 8" x 6" wye. Because the existing sewer main is asbestos cement pipe, an asbestos abatement plan will be required to be prepared by a licensed contractor. You may wish to consider making the connection at the existing lateral's location to eliminate an additional asbestos abatement.
5. It appears the elevation (776.57) called out in the lateral connection note is the approximate invert of the sewer main. The new lateral connection invert will be roughly one foot higher.
6. Show a lateral cleanout at the right-of-way.

7. Provide calculations that demonstrate the oil water separator is adequately sized.
8. A sand interceptor is required upstream of the oil water separator.
9. Provide cleanouts on the discharge of each pretreatment unit.
10. Add the following note to the plan: "The sand interceptor and oil separator are to be designed, installed and maintained per NYS Plumbing Code. Design and installation shall include appropriate traps, cleanouts and venting per code requirements."
11. Cleanouts are required upstream of all bends and at intervals not exceeding 90 feet.
12. Revise the six inch lateral grade to be 1.5% min.
13. There appears to be inadequate vertical separation between the 4" lateral and the 12" storm pipe between DB-4 and DB-3. A minimum of 6" is required.
14. Provide approximate invert elevations at the building for each lateral.
15. Indicate that the laterals are to be SDR-21 pipe.
16. Based on an assumed watermain cover of five feet, there is inadequate vertical separation between the watermain and new lateral.
17. Provide the architect's Plumbing Plans with your resubmission.

NOTES

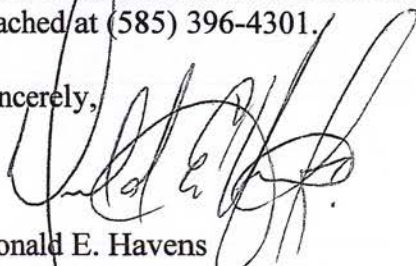
18. Replace the Sanitary Notes shown with the County's standard Lateral Plan Notes provided herein.

DETAILS

19. Remove "Sanitary Sewer" from the title of the Bedding Detail shown.
20. Add the attached Sanitary Sewer Main & Lateral Trench & Bedding Detail.
21. Replace the Sanitary Sewer Lateral Detail Privately-Owned Sewer Main detail with the Sanitary Sewer Lateral Detail provided.
22. Add the attached Sanitary Cleanout Detail.
23. Revise the Sewer Lateral Connection detail to indicate the correct sewer main material and show any adapters or special fittings required for a proper connection.

Please make revisions as noted and resubmit to our office. If you have any questions I may be reached at (585) 396-4301.

Sincerely,

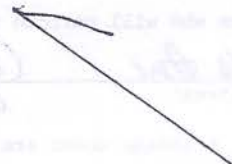


Donald E. Havens
District Supervisor, CLCSD

cc: John E. Berry, P.E., Deputy Commissioner of Public Works (w/o enc.)
Doug Finch, Town Manager, Town of Canandaigua (w/o enc.)

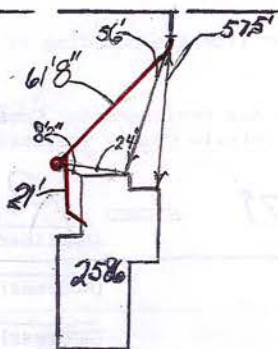
Enc.

N



145 332

8x4 WYE
6' ~ 4" LAT
6' DR



SANITARY LATERAL NOTES

ALL PROJECTS

1. All sanitary sewer construction and/or improvements shall be in accordance with the most recent standards and specifications of the Canandaigua Lake County Sewer District, N.Y.S. Department of Environmental Conservation, N.Y.S. Department of Health, the latest edition of Recommended Standards For Wastewater Facilities and any other agencies having jurisdiction.
2. No sanitary sewer-related work may be performed without first obtaining a written permit from the Canandaigua Lake County Sewer District.
3. District personnel shall be notified a minimum of 48 hours prior to beginning any sanitary sewer-related work.
4. The contractor shall locate, mark and preserve any right of way monuments or survey control in the area of construction.
5. Utility locations shown are approximate only. The contractor shall determine exact location of utilities, excavating to expose the utility, if necessary in the area of construction, before commencing construction. Contact U.F.P.O. at 1-800-962-7962 at least 72 hours prior to beginning work.
6. Laterals shall be min. 4" dia. SDR-21 with elastomeric joints; for commercial establishments, laterals are to be 6" dia. SDR-21. Minimum depth of burial is four feet. Cleanouts shall be installed within 30 inches of the outside face of buildings, at all changes in horizontal alignment, at the right of way or easement line, and at spacing not to exceed 90 feet.
7. Sewer mains and laterals shall be located a minimum horizontal distance of ten feet from any existing or proposed watermain (as measured from the outside of the sewer/lateral to the outside of the watermain). In cases where the main or lateral crosses a watermain, the minimum vertical separation shall be eighteen inches (measured out-to-out). The crossing shall be arranged so that the sewer joints will be equidistant and as far as possible from the watermain joints.
8. The contractor shall provide the District with shop drawings and material specifications that have been pre-approved by the design engineer before a permit will be issued.
9. The contractor is responsible for compliance with OSHA requirements in all aspects of construction.
10. The contractor shall be responsible for maintaining sanitary flows at all times by methods acceptable to the District.
11. Floor drains in basements or garages are to be connected to the sanitary sewer. Floor drains do not include foundation or footer drains installed to intercept uncontaminated groundwater. All discharges to the sanitary sewer must comply with effluent limits of the Ontario County Sewer Use Law. Foundation and footer drains shall be constructed in a manner that prohibits groundwater from draining into the sanitary sewer pipe cradle.

12. Lateral connections requiring openings in asbestos cement pipe will be designed, inspected and certified by the design engineer or representative thereof.
13. Any excavation not backfilled by the end of the workday shall be fenced, barricaded and lighted for safety and protection of the public.
14. The contractor shall be responsible for the removal of existing sanitary mains, structures and appurtenances, if any, needed to complete the work.

RENOVATION PROJECTS ONLY

15. Existing laterals to be disconnected must be permanently plugged or capped at the easement or right of way line under the direction of Canandaigua Lake County Sewer District personnel. The location of the plug or cap shall be recorded for as-built drawing purposes.
16. Prior to demolishing an existing building, the contractor shall excavate, disconnect and abandon the lateral from the building to the point of disconnection (approximately 30' from the existing building) per District standards. A temporary plug shall be installed in the remaining portion of the existing sanitary lateral until it is tested and televised.
17. In order to determine whether an existing sanitary lateral is acceptable for connection to a new building, the lateral shall be televised in the presence of District personnel at the owner's expense.
18. If an existing lateral is found to be acceptable and meet the minimum District requirements, it shall be temporarily re-plugged and backfilled with a witness stake in place, until connection to the new building can take place.
19. If a new sanitary sewer lateral is required, the existing lateral must be excavated, removed and capped at the easement or right of way line in accordance with District requirements.
20. If a new sanitary sewer lateral is required, the connection to the existing sanitary main shall be made per District standards.

NON-PAVEMENT/LAWN AREAS

PAVEMENT AREAS

SUITABLE EXCAVATED MATERIAL (NO STONES LARGER THAN 6"), PLACED & COMPACTED IN LIFTS NO GREATER THAN 6" TO SAFETY COVER.

SELECT GRANULAR FILL PER NYSDOT SPECIFICATION 203-2.02, PLACED & COMPACTED IN LIFTS NOT TO EXCEED 6", REMAINING DEPTH OF TRENCH

APPROXIMATE FINISH GRADE (TYP.)

SEWER SAFETY WARNING TAPE SHALL BE INSTALLED DIRECTLY ON SAFETY COVER CENTERED ABOVE PIPE. TRACER WIRE OR DETECTABLE WARNING TAPE IS REQUIRED OVER FORCEMAIN. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

COVER TYP.
2' SAFETY

#1 & #2 CRUSHED STONE BEDDING PER NYSDOT SPECIFICATION 703-02, HAND TAMPED TO SPRING LINE.

UNDISTURBED EARTH (TYP.)

12"
6" MIN. - UNDISTURBED EARTH
4" MIN. - ROCK

#3 CRUSHED STONE FOUNDATION FOR UNSTABLE SOIL CONDITIONS OR OVER-EXCAVATION, DEPTH AS REQUIRED.

MAX. TRENCH WIDTH
PIPE OD + 3' *

NOTES:

1. MINIMUM DEPTH OF COVER FOR SEWER MAINS AND LATERALS IS 4'.
2. MINIMUM PIPE DIAMETER REQUIRED FOR DEDICATION = 8"

* MAXIMUM TRENCH WIDTH FOR LATERALS = OD + 14"

SANITARY SEWER MAIN & LATERAL TRENCH & BEDDING DETAIL

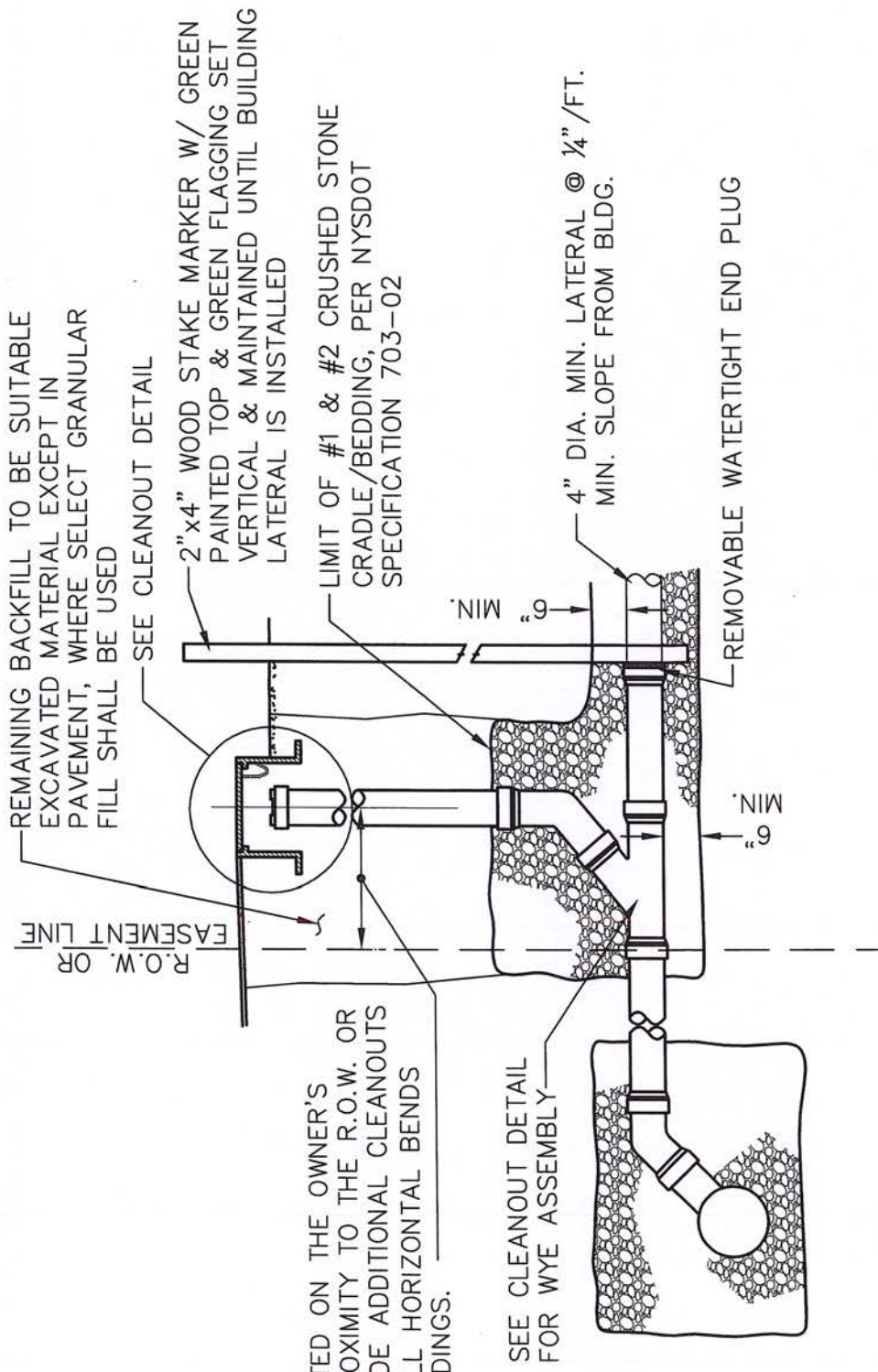
ONTARIO COUNTY DEPARTMENT OF PUBLIC WORKS

CLCSD STDS
08/2010

DWG:
REV:

SA_STDS
N.T.S.

PROJECT:
SCALE:



CLEANOUT TO BE LOCATED ON THE OWNER'S PROPERTY IN CLOSE PROXIMITY TO THE R.O.W. OR EASEMENT LINE. PROVIDE ADDITIONAL CLEANOUTS @ 90' INTERVALS, AT ALL HORIZONTAL BENDS AND ADJACENT TO BUILDINGS.

NOTE:
4" OR 6" DIA. SDR 21 SHALL BE USED FOR NEW LATERALS, RISERS, CLEANOUTS & WYE CONNECTIONS. 22 1/2" AND 45" BENDS ONLY - 90° BENDS AND TEES ARE UNACCEPTABLE. TWO 22 1/2" BENDS MAY BE CONNECTED W/ A 2' (MIN.) LENGTH OF STRAIGHT PIPE. ALL JOINTS MUST HAVE RUBBER GASKETS. GLUED JOINTS ARE PROHIBITED.

SANITARY SEWER LATERAL DETAIL

ONTARIO COUNTY DEPARTMENT
OF PUBLIC WORKS

CLCSD STDS
03/2013

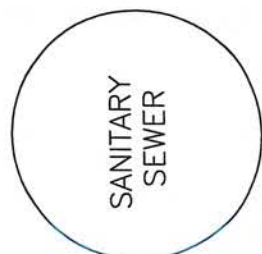
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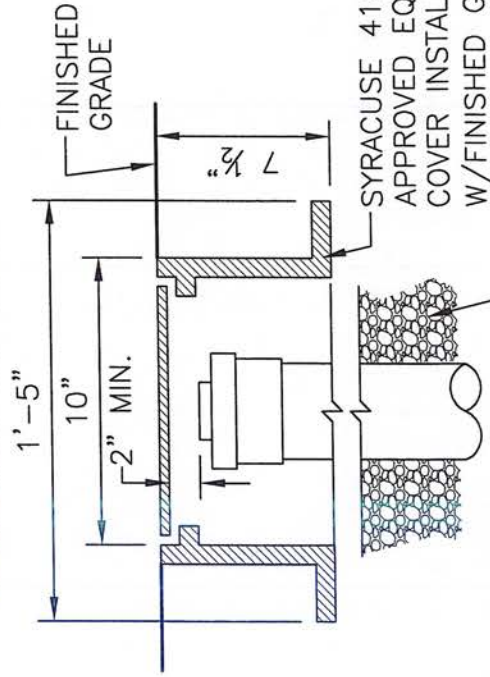
PROJECT:
SCALE:

NOTE:

CLEANOUTS LOCATED IN PAVED AREAS ARE CONSIDERED UNDESIRABLE, AND SHOULD BE AVOIDED WHENEVER POSSIBLE.

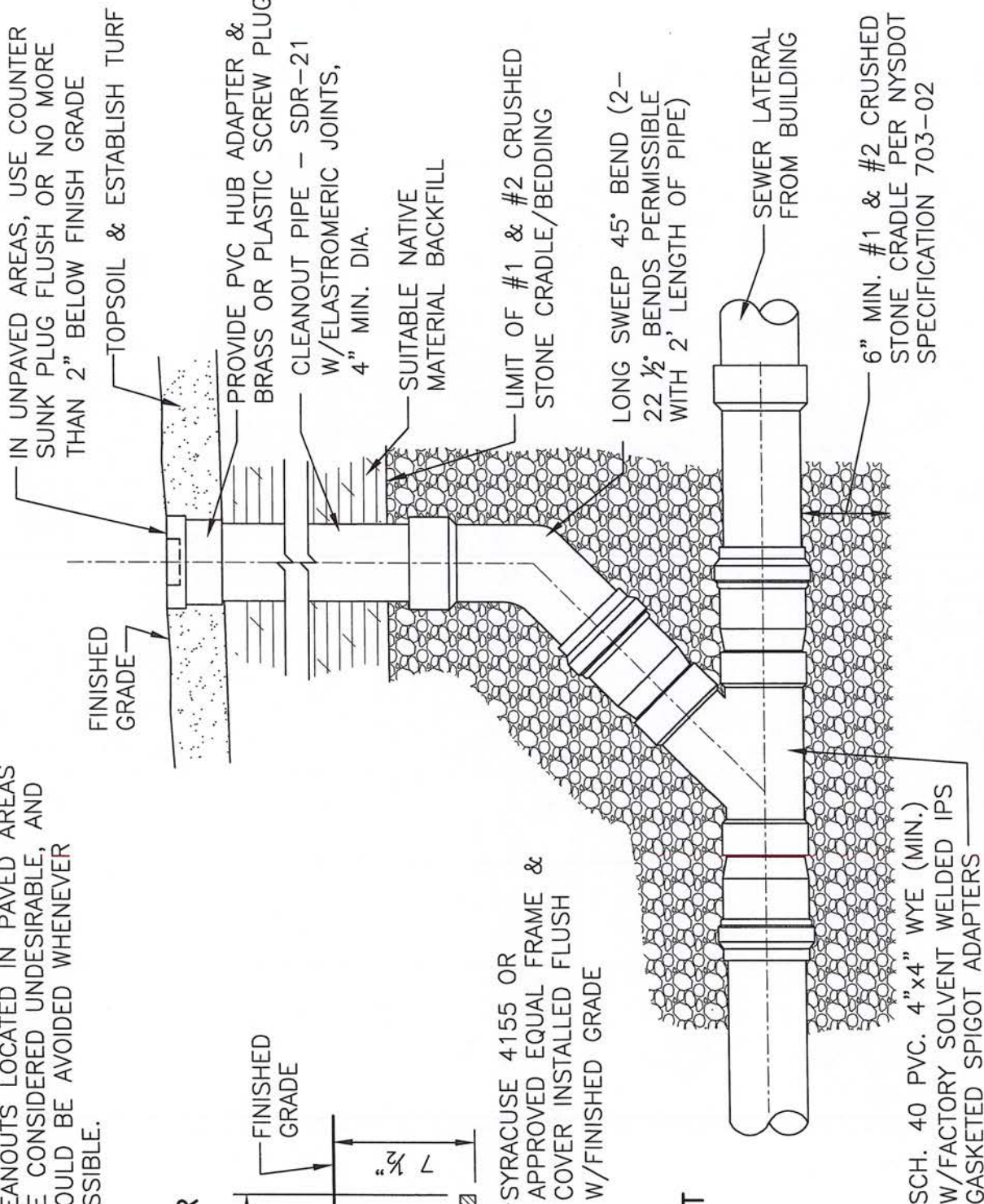


LETTERING ON COVER



SELECT GRANULAR BACKFILL TO SUBBASE

CLEANOUT IN ASPHALT



SANITARY CLEANOUT DETAIL

ONTARIO COUNTY DEPARTMENT
OF PUBLIC WORKS

CLCSD STDS
08/2010

DWG:
REV:

SA_STDS
N.T.S.

PROJECT:
SCALE: