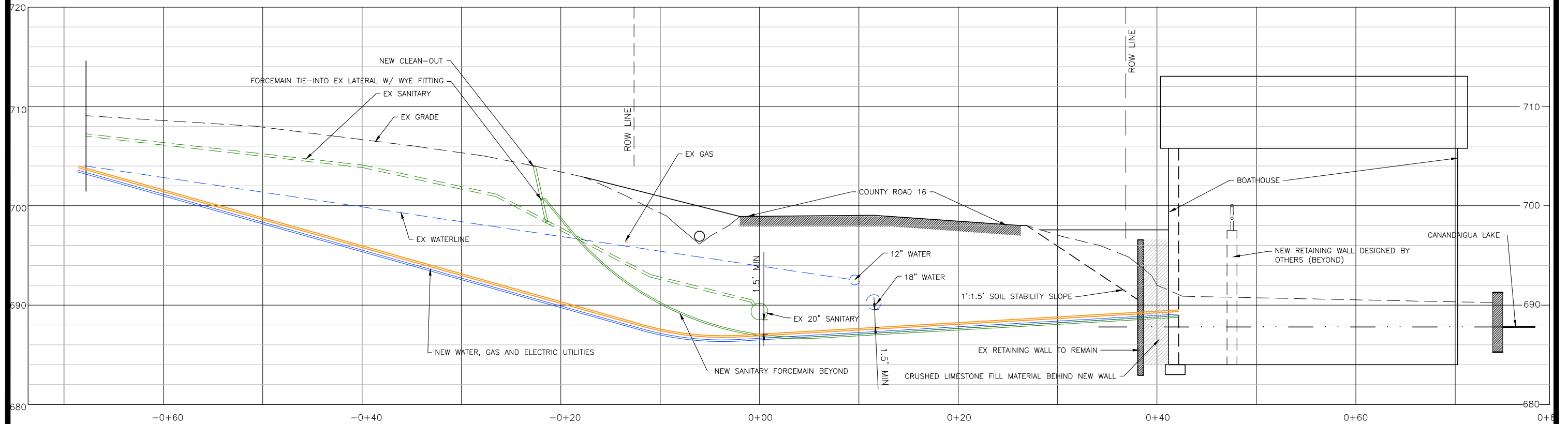


PREPARED FOR:  
**BRENDAN WOOD**  
UTILITY INSTALLATION DESIGN  
3568 COUNTY ROAD 16  
TOWN OF CANANDAIGUA  
COUNTY OF ONTARIO STATE OF NEW YORK



2 UTILITY PROFILE  
1"=10'



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GENERAL NOTES:

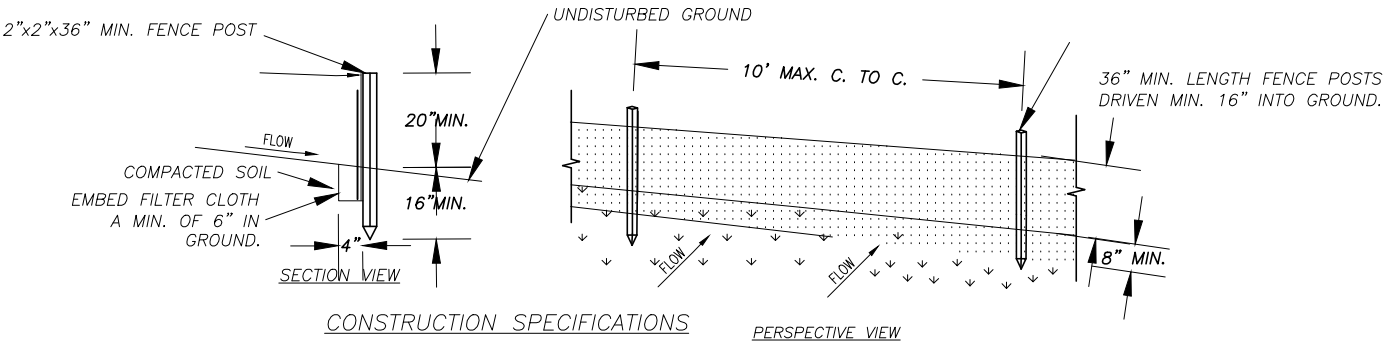
1. THE CONTRACTOR SHALL MAINTAIN ALL UTILITIES AND PROPERTY MARKERS. IT IS THE NYS LAW TO CALL NYS DIG SAFE FOR UFPO (811) PRIOR TO ANY EXCAVATION.
2. THE ROADWAY SHALL BE KEPT FREE OF DEBRIS DURING CONSTRUCTION.
3. THE CONTRACTOR IS RESPONSIBLE FOR SAFETY CONTROL DEVICES. SUCH DEVICES (BARRICADES, FENCING, ETC.) SHALL BE IMPLEMENTED TO MINIMIZE RISK OF INJURY TO PEDESTRIANS AND WORKERS. CONSTRUCTION ACTIVITY SHALL BE CONDUCTED WITHIN COMPLIANCE WITH OSHA GUIDELINES.
4. PLANS ARE GRAPHIC REPRESENTATIONS OF WORK TO BE PERFORMED. THESE PLANS ARE TO INTENDED TO CONVEY ENGINEERING INFORMATION ONLY.
5. CONTRACTOR TO VERIFY ALL LOCATIONS, GRADES AND INVERTS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO THE START OF WORK.
6. ALL SPECIFIED MATERIALS ARE TO BE INSTALLED AS PER MANUFACTURES RECOMMENDATIONS OR INDUSTRY STANDARD.
7. ENGINEER DOES NOT HOLD ANY LIABILITY FOR SYSTEM FAILURE. ANY SYSTEM MODIFICATIONS OR DEVIATIONS FROM THE APPROVED PLANS, NYS BUILDING CODES, AND/OR LOCAL REGULATIONS REQUIRED BY SITE CONSTRAINTS, UNFORESEEN CONDITIONS OR GOVERNING AUTHORITIES WILL BE DONE AT THE RISK OF THE CLIENT.
8. ALL CONSTRUCTION SHALL COMPLY WITH CURRENT NYS AND LOCAL BUILDING CODES AS WELL AS NATIONAL ELECTRIC CODE.

EROSION AND SEDIMENT CONTROL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR THE CONTROL OF EROSION AND SEDIMENTATION DURING CONSTRUCTION. SILT FENCE SHALL BE INSTALLED AND MAINTAINED AS NEEDED.
2. SOIL DISTURBANCES SHALL BE STABILIZED IMMEDIATELY. DISTURBED SOIL THAT WILL REMAIN LONGER THAN 14 DAYS SHALL BE TEMPORARILY STABILIZED WITHIN 7 DAYS. SOIL SHALL BE STABILIZED WITH NORTHERN GRASS SEED MIXTURE OR APPROPRIATE SEED MIXTURE FOR CONDITIONS. GRASS SEED SHALL BE INSTALLED PER MANUFACTURES SPECIFICATIONS. MULCH STRAW APPLIED AT A RATE OF 2 BALES / 1000 SQFT OR SEED MIXTURE TO PROTECT SITE UNTIL SEED GERMINATES. HYDRO-SEED MAY BE INSTALLED AS AN ALTERNATE.
3. CONTRACTOR SHALL INSPECT THE SITE DAILY FOR SIGNS OF EROSION. IF ANY EROSION OR SEDIMENTATION OCCUR CONTRACTOR SHALL IMMEDIATELY PROVIDE PROPER CONTROLS TO STABILIZE THE SITE. ENGINEER WILL RECOMMEND CONTROLS IF REQUIRED.
4. SLOPE GREATER THAN 4 ON 1 SHALL BE STABILIZED WITH JUTE FABRIC INSTALLED AS PER MANUFACTURES SPECIFICATIONS AS REQUIRED.
5. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN STALLED IN ACCORDANCE WITH NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENTATION CONTROLS.
6. INSTALL AND MAINTAIN TEMPORARY DIVERSION SWALES AS NEEDED TO CONTROL RUNOFF DURING CONSTRUCTION.
7. THE SITE SHALL BE COMPLETELY STABILIZED FOLLOWING CONSTRUCTION ACTIVITIES AND ALL TEMPORARY EROSION CONTROL DEVICES SHALL BE REMOVED AND DISPOSED OF PROPERLY.
8. CONCRETE TRUCKS SHALL NOT BE ALLOWED TO WASH-OUT ON SITE.
9. CONSTRUCTION STAGING AND PARKING AREAS SHALL BE LIMITED TO PAVED OR STONE AREAS OUTSIDE OF THE HIGHWAY RIGHT-OF-WAY.
10. ANY UNUSED SPOIL SHALL BE HAULED OFFSITE IMMEDIATELY.
11. TOPSOIL HAS BEN PREVIOUSLY REMOVED FROM SITE.

GRADING NOTES:

1. CUT AND FILL SLOPES SHALL NOT EXCEED 3 ON 1.
2. CONSTRUCTION SHALL CONFORM TO THE TOWN OF CANANDAIGUA AND NYS CODES AND STANDARDS
3. SITE SHALL BE GRADED SUCH THAT THERE IS POSITIVE DRAINAGE AT A MINIMUM OF 2% AWAY FROM ANY BUILDINGS, STRUCTURES, DRIVEWAYS, AND SEPTIC SYSTEM.
4. TOPSOIL SHALL BE STRIPED OF AREAS PLANNED FOR CONSTRUCTION AND REAPPLIED AFTER GRADING IS FINISHED. ANY UNUSED TOPSOIL SHALL BE HAULED OFF SITE.



1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "I" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO POSTS WITH STAPLES.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIRONMENT, OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

1 TYPICAL SILT FENCE DETAIL  
NTS



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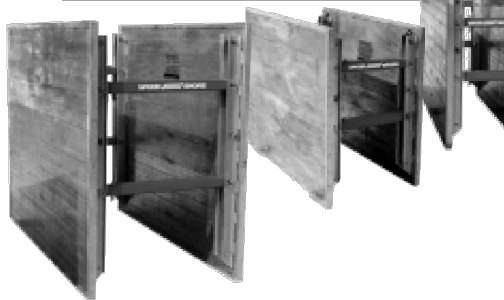


# Aluminum Shields

Speed Shores Aluminum Trench Shields provide exceptional strength at minimal weight — as little as half the weight of comparable steel trench shields. These aluminum trench shields are specifically designed for municipalities, utility companies, plumbers and contractors who generally use a rubber-tired backhoe or light excavator. The comprehensive product line includes the popular Aluminum Panel Shield (APS) series as well as a wide variety of heavy-duty welded-construction models.

Available in a full range of sizes and configurations, Speed Shores aluminum trench shields offer the most complete array of standard features and options in the industry. Rugged steel lifting and pulling eyes, heavy-duty stacking sockets and foam-filled walls are just a few of the many features offered. A variety of spreader options are available, to include adjustable telescoping steel spreaders, hydraulic cylinders, and fixed-length static spreaders. The shields smooth exterior walls minimize pulling friction while preventing the accumulation of dirt and debris.

Ideal for utility maintenance and repair, pipeline bellholes, cable splice pits and light utility installations, Speed Shore aluminum trench shields offer the ultimate in lightweight, high-capacity trench shielding.



**SPEED SHORE**  
PIONEERING TRENCH SAFETY

## Aluminum Panel Shields Offer Superior Strength With Less Weight.

- **Aluminum Alloy Construction** for exceptional high strength-to-weight ratios and superior corrosion resistance.
- **Narrow Double-Wall Panels** minimize excavation width while maximizing interior work space.
- **Exclusive APS Extruded Panel** offers unique 12-inch high extrusion for greater strength and wall height increments of 1 foot.
- **Foam-Filled Smooth Walls** prevent accumulation of water, dirt and debris.
- **Adjustable Spreaders** allow for rapid adjustment of shield width.
- **Heavy-Duty Lifting Lugs** provide for rapid 4-point lifting of units.
- **Stacking Pockets** provide solid interlock of stacked units for deeper applications.

# Aluminum Shield Specifications

## Aluminum Panel Shields

MODEL	DIMENSIONS H (Ft.) L		PIPE CLEARANCE (In.)	WEIGHT (Lbs.)	SHIELD CAPACITY (Psf)	ALLOWABLE DEPTH (Ft.) by soil type **			
						A	B	C(60)	C
APS-0406	4	6	18	488	4190	50	50	50	50
APS-0408	4	8	18	586	2050	50	45	35	26
APS-0410	4	10	18	686	1210	46	27	21	16
APS-0412	4	12	18	786	800	30	18	14	11
APS-0414	4	14	18	884	570	21	13	10	8
APS-0416	4	16	18	984	420	15	10	8	6
APS-0606	6	6	30	698	2330	50	50	39	30
APS-0608	6	8	30	848	1750	50	39	30	25
APS-0610	6	10	30	996	1210	46	27	21	16
APS-0612	6	12	30	1142	800	30	18	14	11
APS-0614	6	14	30	1292	570	21	13	10	8
APS-0616	6	16	30	1434	420	15	10	8	6
APS-0806	8	6	36	920	1650	50	36	28	21
APS-0808	8	8	36	1114	1240	48	27	20	16
APS-0810	8	10	36	1306	990	38	21	16	13
APS-0812	8	12	36	1498	800	30	18	14	11
APS-0814	8	14	36	1692	570	21	13	10	8
APS-0816	8	16	36	1884	420	15	10	8	6

Note: Stacking Kits (Model No. APS-SB-04) are available, and include the 4 brackets and pins required for stacking two shields.  
\*\* Prior to use, refer to OSHA's 29 CFR, Part 1926 (subpart P) and Speed Shore's Tabulated Data for detailed explanation of soil types and product application. Type A soil not to exceed 25 Psf per foot of depth; Type B soil not to exceed 45 Psf per foot of depth; Type C(60) soil not to exceed 60 Psf per foot of depth; Type C soil not to exceed 80 Psf per foot of depth.

Note: Allowable depths are limited to 50 feet for practical purposes. Contact Speed Shore for applications exceeding posted allowable depths.

## Adjustable Spreaders\*

### HEAVY-DUTY (For End Loading)

MODEL	OPERATING RANGE (Ins.)	WEIGHT (Lbs.)
SPRH-APS-036	26 - 36	214
SPRH-APS-048	32 - 48	260
SPRH-APS-060	40 - 60	318
SPRH-APS-072	48 - 72	600
SPRH-APS-096	60 - 96	758

### STANDARD

MODEL	OPERATING RANGE (Ins.)	WEIGHT (Lbs.)
SPR-APS-036	26 - 36	164
SPR-APS-048	32 - 48	200
SPR-APS-060	40 - 60	246
SPR-APS-072	48 - 72	294
SPR-APS-096	60 - 96	364

\*Includes 4 spreaders per set.



## Aluminum Trench Shields (Welded Construction)

Available in a full range of sizes to accommodate your more challenging excavations, our welded-construction aluminum shields are P.E.-Certified. They have exceptional strength, and weigh half as much as comparable steel trench shields. Call for specifications.

## Pioneer of the World's Most Advanced Trench Safety Systems



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PIONEERING TRENCH SAFETY

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(713) 943-0750 ■ FAX (713) 943-8483 ■ USA TOLL FREE: 1-800-231-6662  
[www.speedshore.com](http://www.speedshore.com)

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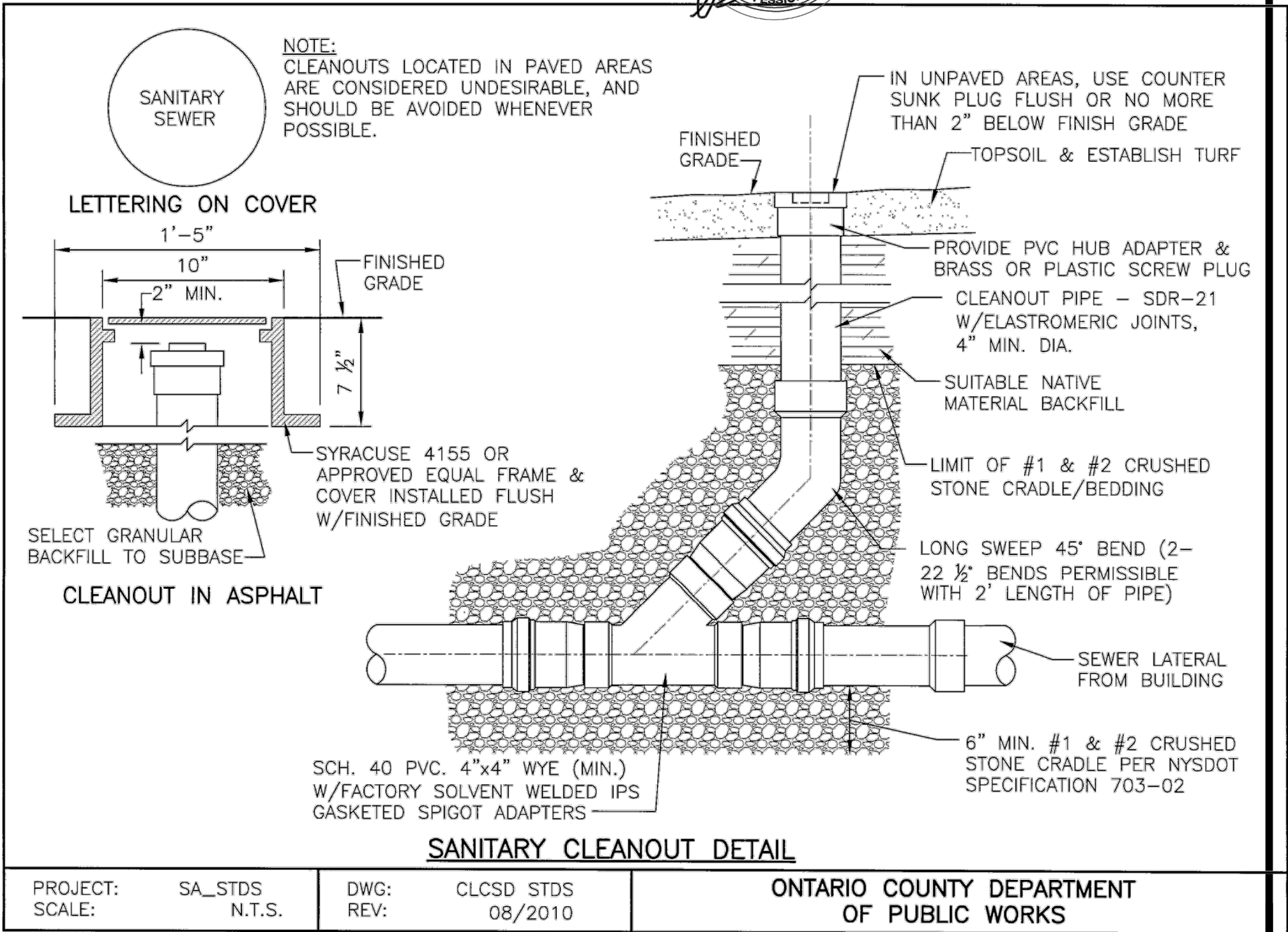
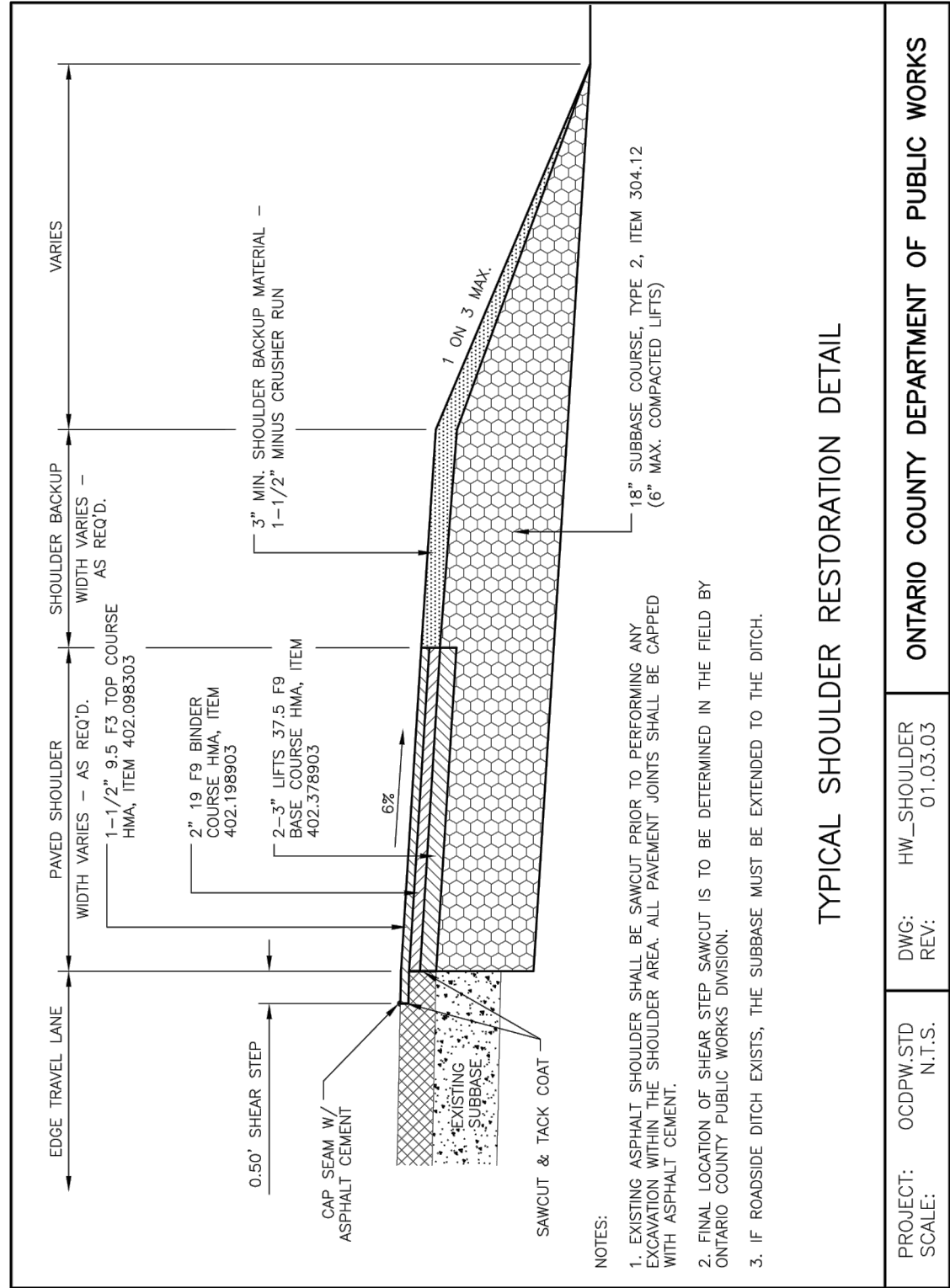


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SANITARY LATERAL NOTES

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.



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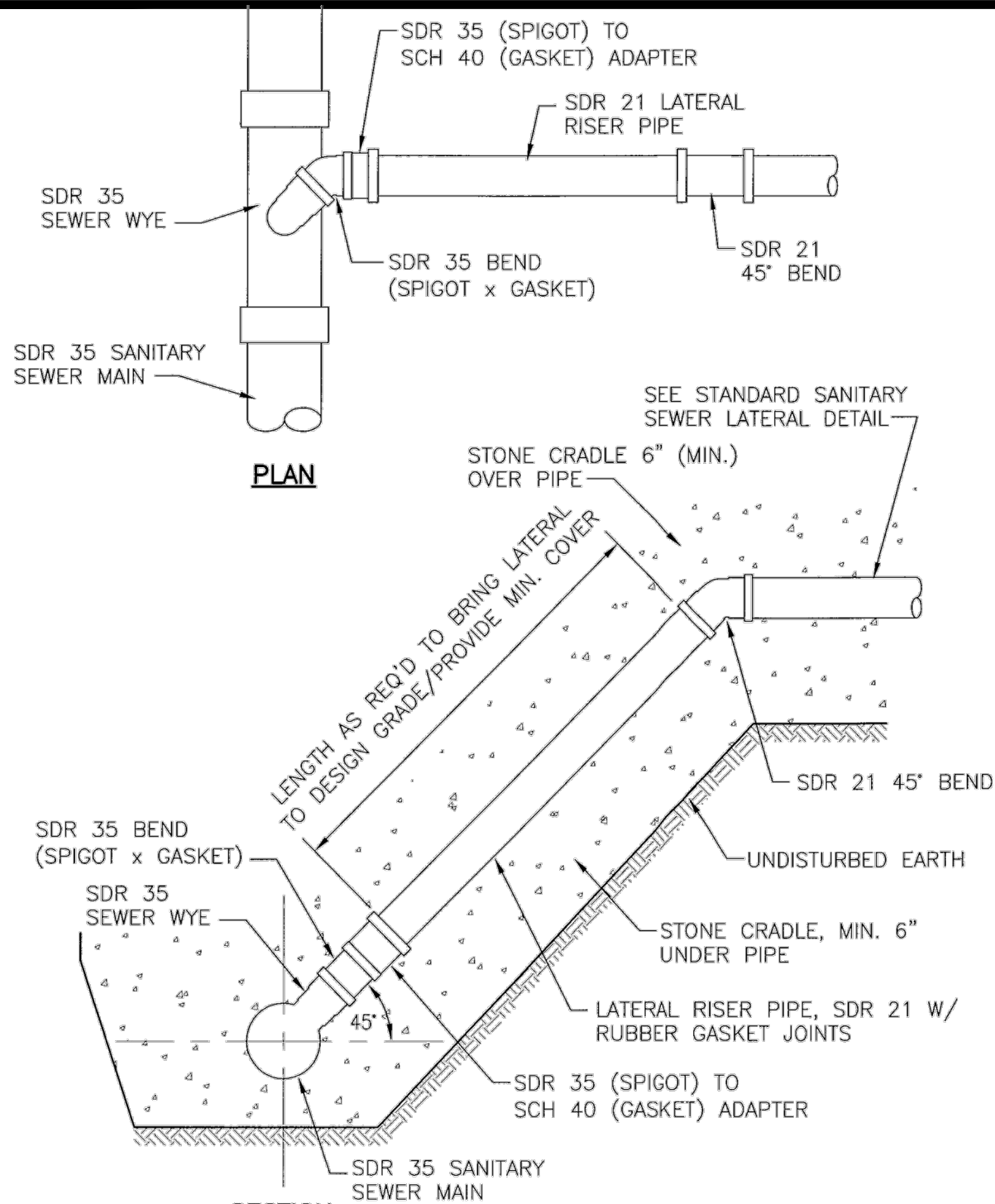
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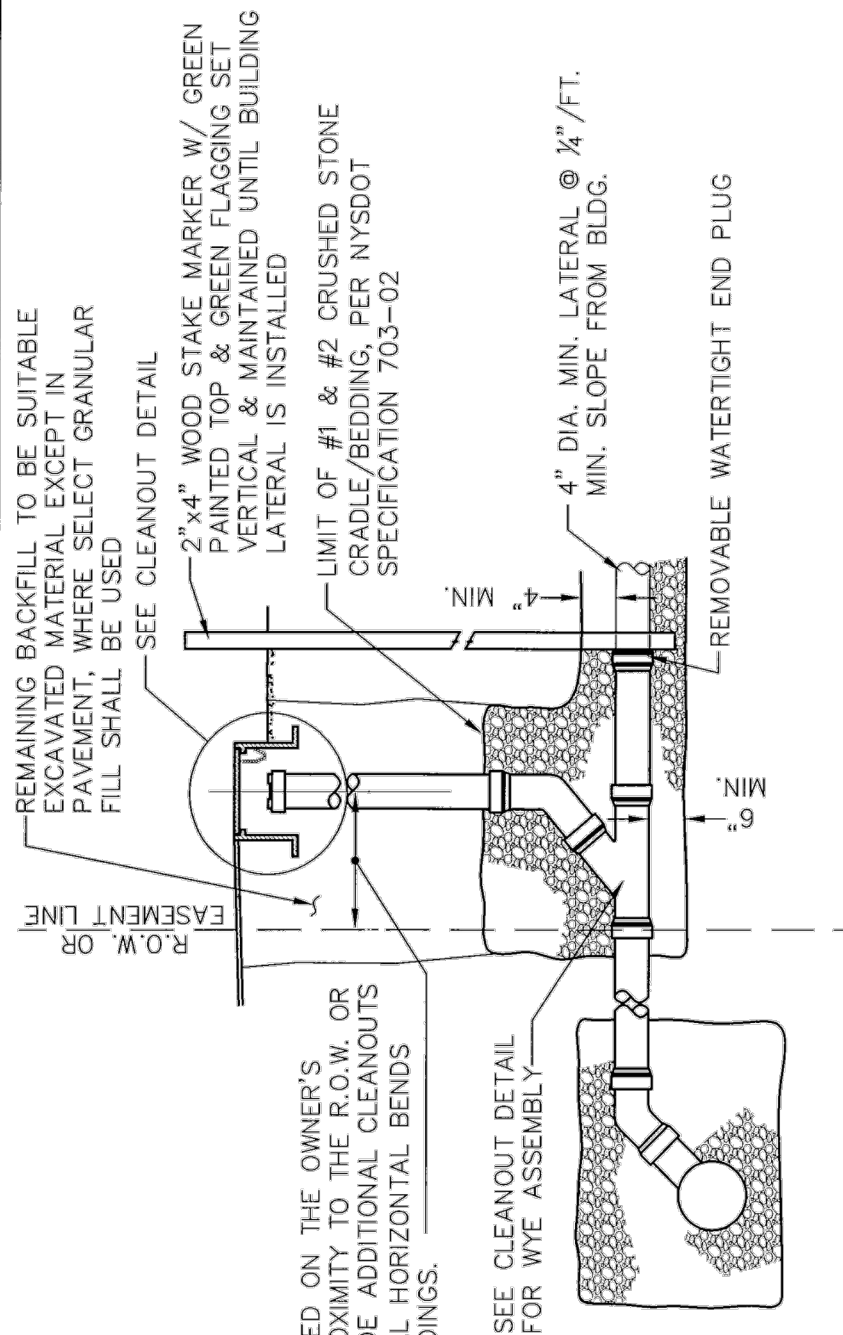
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**SANITARY SEWER  
LATERAL RISER DETAIL**

PROJECT: SA\_STDS    DWG: CLCSD STDS    ONTARIO COUNTY DEPARTMENT  
SCALE: N.T.S.    REV: 07/2011    OF PUBLIC WORKS



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  
DISTRICT-OWNED SEWER MAIN**

PROJECT: SA\_STDS    DWG: CLCSD STDS    ONTARIO COUNTY DEPARTMENT  
SCALE: N.T.S.    REV: 08/2010    OF PUBLIC WORKS

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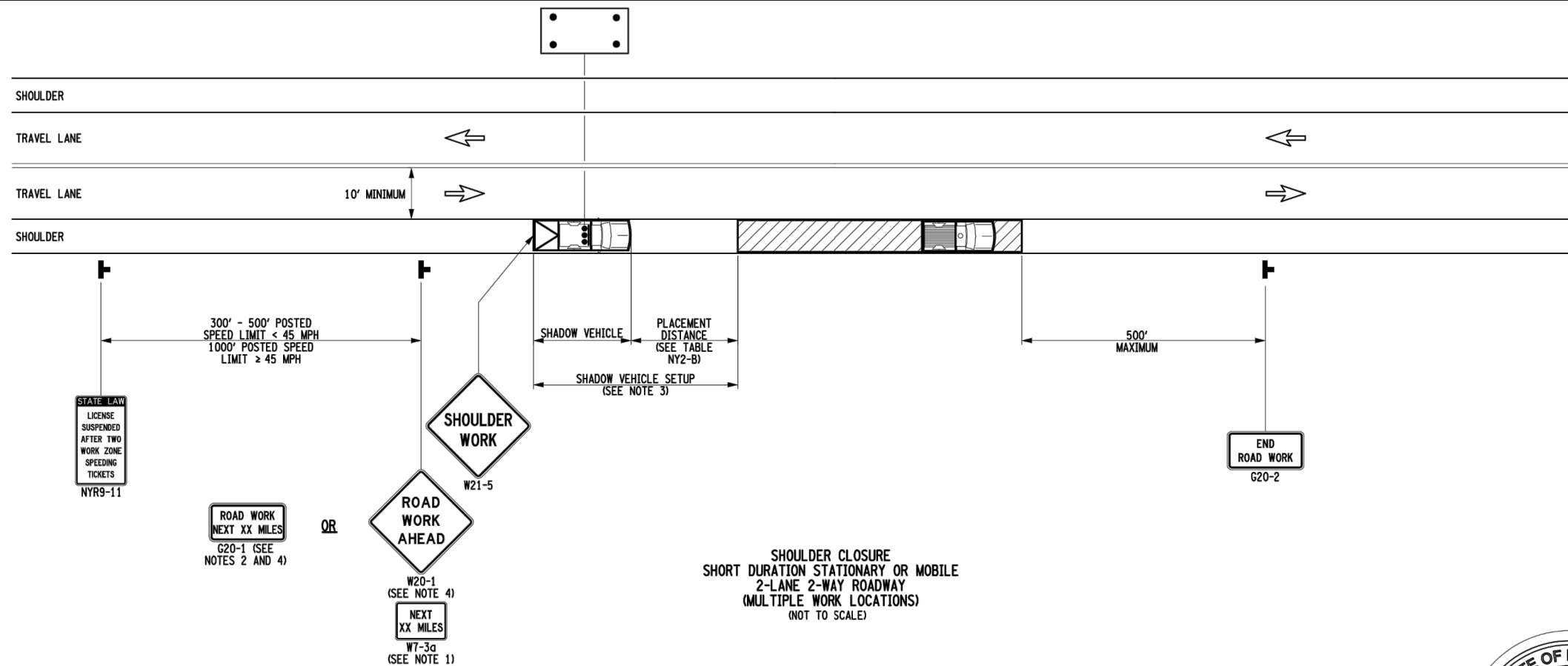


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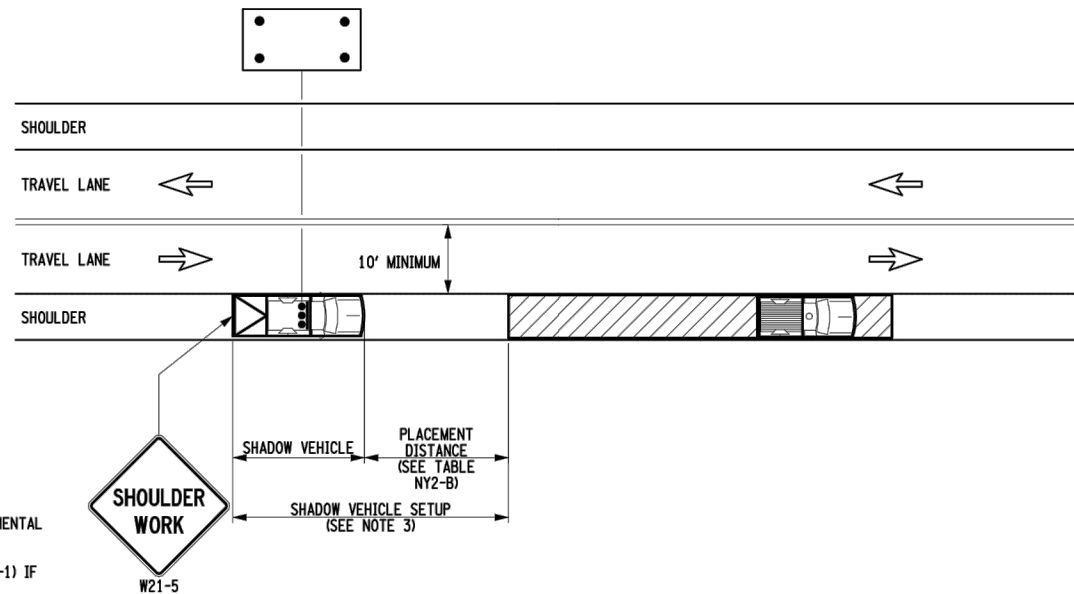
NOTE: SEE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES" FOR LEGEND OF SYMBOLS AND/OR LETTER CODES USED IN THIS DRAWING.

STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
U.S. CUSTOMARY STANDARD SHEET	
SHOULDER CLOSURE 2-LANE 2-WAY ROADWAY MULTIPLE WORK LOCATIONS	
APPROVED SEPTEMBER 15, 2009	ISSUED UNDER EB 09-025
/S/ DAVID J. CLEMENTS, P.E. DIRECTOR, OFFICE OF TRAFFIC SAFETY AND MOBILITY	619-21

EFFECTIVE DATE: 01/07/10

NOTES:

1. WHEN THE DISTANCE BETWEEN THE ADVANCE WARNING SIGNS AND WORK IS 2 MILES TO 5 MILES, A SUPPLEMENTAL DISTANCE PLAQUE (W7-3a) SHOULD BE USED WITH THE ROAD WORK AHEAD SIGN (W20-1).
2. THE ROAD WORK NEXT XX MILES SIGN (G20-1) MAY BE USED INSTEAD OF THE ROAD WORK AHEAD SIGN (W20-1) IF WORK LOCATIONS OCCUR OVER A DISTANCE OF MORE THAN 2 MILES.
3. FOR SHADOW VEHICLE USE REQUIREMENTS SEE TABLES NY1-B AND NY2-B ON THE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES".
4. IN THOSE SITUATIONS WHERE MULTIPLE WORK LOCATIONS EXIST WITHIN A LIMITED DISTANCE MAKE IT PRACTICAL TO PLACE STATIONARY SIGNS, THE DISTANCE BETWEEN THE ADVANCE WARNING SIGN AND WORK SHALL NOT EXCEED 5 MILES.



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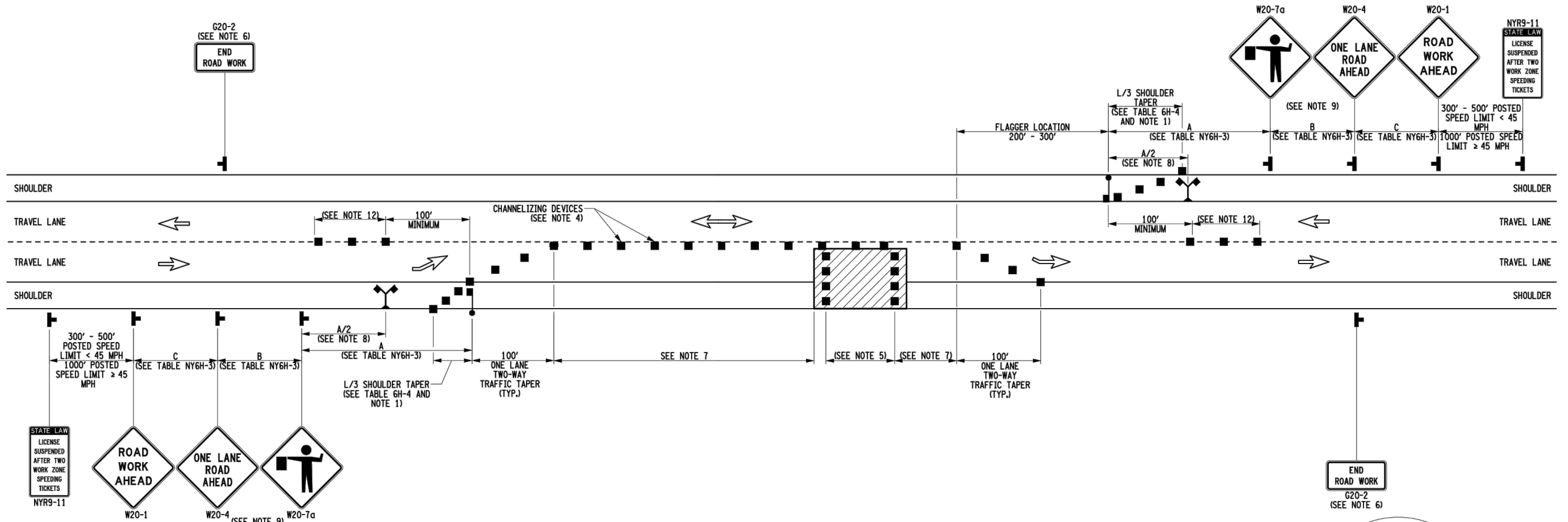


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FLAGGING OPERATION  
SHORT OR INTERMEDIATE TERM STATIONARY  
LANE CLOSURE ON 2-LANE 2-WAY ROADWAY  
(NOT TO SCALE)



NOTES:

- WHEN PAVED SHOULDERS HAVING A WIDTH OF 8' OR MORE ARE CLOSED, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK AREA AND DIRECT VEHICULAR TRAFFIC TO REMAIN IN THE TRAVEL WAY.
- WHEN A SIDE ROAD OR DRIVEWAY INTERSECTS THE ROADWAY WITHIN A WORK ZONE TRAFFIC CONTROL AREA, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES AND/OR FLAGGERS SHALL BE PLACED AS NEEDED. ADDITIONAL FLAGGERS SHALL BE LOCATED AT ALL INTERSECTIONS AND COMMERCIAL DRIVEWAYS LOCATED WITHIN OR NEAR THE ACTIVE WORK SPACE.
- NO WORK ACTIVITY, EQUIPMENT, OR STORAGE OF VEHICLES, OR MATERIAL SHALL OCCUR WITHIN THE BUFFER SPACE AT ANY TIME.
- CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40' IN THE ACTIVE WORK SPACE.
- TRANSVERSE DEVICES SHALL BE REQUIRED (AS PER 619 STANDARD SPECIFICATIONS) WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 1500'.
- THE END ROAD WORK SIGN (G20-2) SHALL BE PLACED A MAXIMUM OF 500' PAST THE END OF THE WORK SPACE.
- WHERE DIRECTED BY THE ENGINEER, A BUFFER SPACE SHALL BE PROVIDED IN ORDER TO LOCATE THE ONE-LANE, TWO-WAY TRAFFIC TAPER PRIOR TO ANY HORIZONTAL OR VERTICAL CURVE, IN ORDER TO PROVIDE ADEQUATE SIGHT DISTANCE FOR THE FLAGGERS AND/OR A QUEUE OF STOPPED VEHICLES.
- THE FLAG TREE SHALL BE LOCATED ON THE SHOULDER, AT APPROXIMATELY 1/2 THE DISTANCE BETWEEN THE FLAGGER SIGN (W20-7a) AND THE FLAGGER.
- FLAGGER SIGN (W20-7a) AND ONE LANE ROAD AHEAD SIGN (W20-4) SHALL BE REMOVED, COVERED OR TURNED AWAY FROM ROAD USERS WHEN FLAGGING OPERATIONS ARE NOT OCCURRING.
- FLAGGER AND FLAG TREE SHALL BE ILLUMINATED TO LEVEL II ILLUMINATION DURING NIGHT TIME OPERATIONS.
- ALL FLAGGERS SHALL USE 24" (MIN.) OCTAGON SHAPED STOP/SLOW PADDLES HAVING 6" STAFF.
- CENTERLINE CHANNELIZING DEVICES ARE OPTIONAL AND MAY BE ELIMINATED WHERE SPACE CONSTRAINTS EXIST.

NOTE: SEE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES" FOR LEGEND OF SYMBOLS AND/OR LETTER CODES USED IN THIS DRAWING.

STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
U.S. CUSTOMARY STANDARD SHEET	
FLAGGING OPERATION 2-LANE 2-WAY ROADWAY	
APPROVED SEPTEMBER 15, 2009 /S/ DAVID J. CLEMENTS, P.E. DIRECTOR, OFFICE OF TRAFFIC SAFETY AND MOBILITY	ISSUED UNDER EB 09-025  619-60

EFFECTIVE DATE: 01/07/10

DRAWN BY:	KRB
CHECKED BY:	BMARKS
SCALE:	1"=20'
JOB NO.:	17-083
DATE:	9/11/2017
TAX MAP#:	98.17-1-17.000

PREPARED FOR:  
**BRENDAN WOOD**  
UTILITY INSTALLATION DESIGN  
3568 COUNTY ROAD 16  
TOWN OF CANANDAIGUA  
COUNTY OF ONTARIO STATE OF NEW YORK

DETAILS			
REVISIONS AND APPROVALS			
NO.	DATE	DESCRIPTION OF REVISION OR APPROVAL	BY
1	10/12/2017	PER OWNERS REQUEST	BAM
2	10/30/2017	PER DOT AND NYSDEC REQUEST	BAM



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