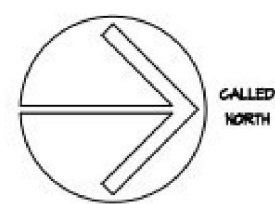


EXISTING SITE PLAN

1"=0' = 20'-0"



SITE DATA

PROPERTY ZONING CLASSIFICATION: C-1 (COMMERCIAL)
MINIMUM LOT SIZE: 1 ACRE
ACTUAL LOT SIZE: 1.22 ACRES (63,134 SF)
MINIMUM LOT WIDTH: 200 FEET
ACTUAL LOT WIDTH: 400 FEET
TAX MAP NUMBERS: 63.2-1-39

SETBACKS	REQUIRED	EXISTING
FRONT	50'-0"	50'-0"
SIDE	15'-0"	124'-6" & 70'-6"
REAR	30'-0"	38'-6"

MAXIMUM BUILDING HEIGHT	30'-0"	23'-0"
MINIMUM % PERMEABLE	60%	55.39%

EXISTING SITE COVERAGE
TOTAL SITE AREA: 63,134 SF (100%)
BUILDING AREA: 6,706 SF (12.62%)
PAVING & WALK AREAS: 16,995 SF (31.99%)
PERMEABLE AREA (GREEN SPACE): 29,433 SF (55.39%)

REMOVAL WORK NOTES

- NOTE 1 - REMOVE AREAS OF EXISTING ASPHALT PAVING AS REQUIRED FOR GRADING AND AS REQUIRED FOR INSTALLATION OF NEW PAVING.
- NOTE 2 - REMOVE EXISTING CONCRETE PAD IN ITS ENTIRETY.
- NOTE 3 - REMOVE EXISTING TREE AND ROOT SYSTEM IN ITS ENTIRETY.
- NOTE 4 - REMOVE EXISTING SEPTIC SYSTEM IN ITS ENTIRETY INCLUDING ALL DEVICES AND PIPING.
- NOTE 5 - CLEAR & GRUB AREAS INDICATED, STOCKPILE TOPSOIL FOR IN NEW LAWN AREAS.
- NOTE 6 - REMOVE EXISTING DRYWELL IN ITS ENTIRETY.
- NOTE 7 - REMOVE EXISTING FLAGPOLE & MEMORIAL, SALVAGE FOR REINSTALLATION AS INDICATED.
- NOTE 8 - REMOVE SECTIONS OF EXISTING CONCRETE WALK.
- NOTE 9 - REMOVE EXISTING WELL IN ITS ENTIRETY.
- NOTE 10 - REMOVE EXISTING PLANTING BED AND ALL SHRUBS IN ITS ENTIRETY.

DEEP TEST PIT & PERC TEST LOG

Percolation Data			
Location ID	Depth (ft.)	Groundwater/Bedrock	Percolation Rate (min./in.)
TP & PT #1	7	None	>60
PT #2	2	None	1.50

REGISTERED ARCHITECT

RICHARD E. JONES

STATE OF NEW YORK

015120

12/18/2021

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Unauthorized alteration or addition to this document is a violation of Article 17, section 7301 of the New York State Education Law regarding its practice of architecture.

Revision Schedule

No.	Description	Date

MOREAU EMERGENCY SQUAD

1583 ROUTE 9
MOREAU, NEW YORK 12828

EXISTING SITE PLAN

Richard E. Jones Associates

Architecture • Planning • Interiors

339 Aviation Road

Queensbury, New York 12254

Phone: (518) 793-1015 Fax: (518) 793-2223

email: info@rejaarchitects.com

DATE: 01-26-2026

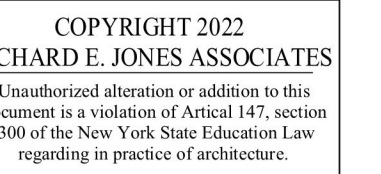
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CHECKED BY: Checker

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22-02

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1583 ROUTE 9
MOREAU, NEW YORK 12828

Richard E. Jones Associates

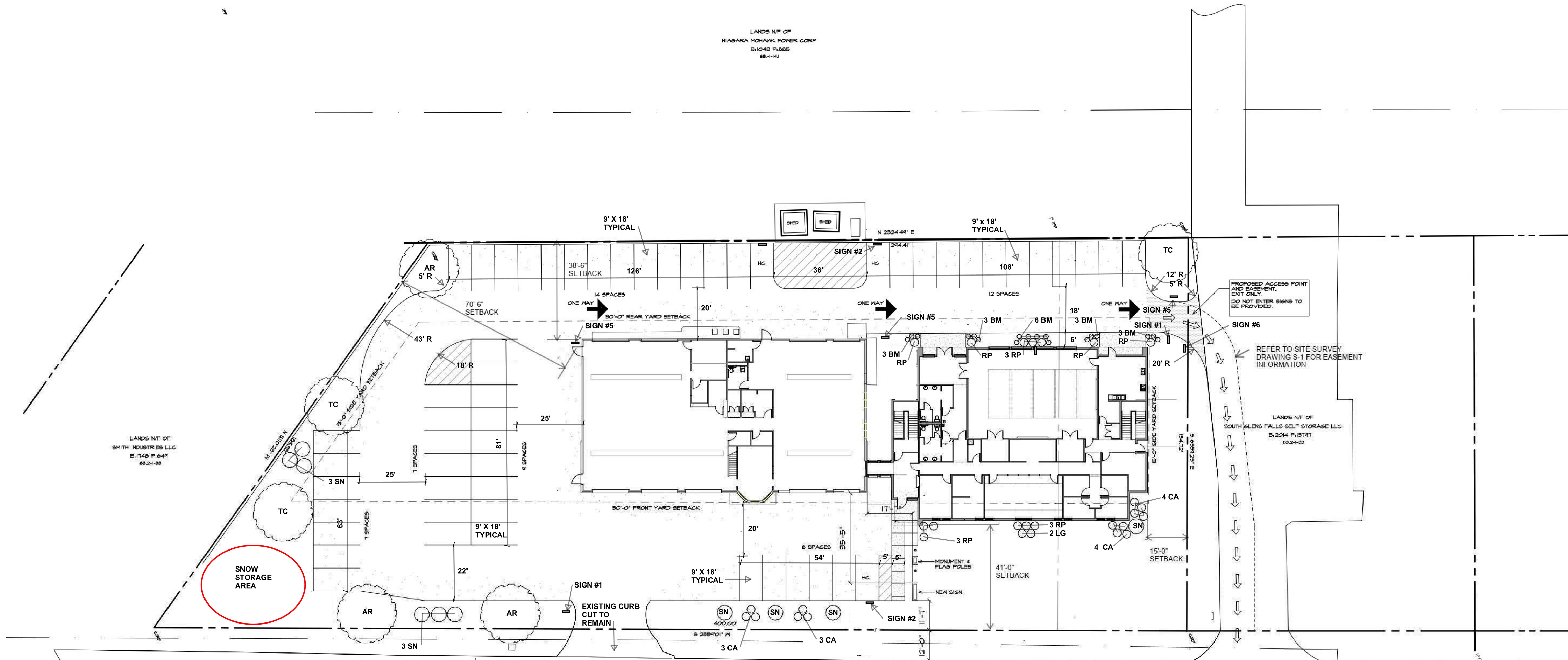
Architecture • Planning • Interiors

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Phone: (518) 793-1015 Fax: (518) 793-2223
email: info@rejarchitects.com

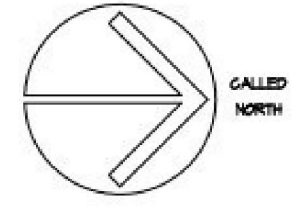
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2-02



PROPOSED SITE PLAN

$$1'-O'' = 20'-O''$$


U.S. ROUTE 9 - SARATOGA ROAD

SITE DATA

PROPERTY ZONING CLASSIFICATION: C-1 (COMMERCIAL)
MINIMUM LOT SIZE: 1 ACRE
ACTUAL LOT SIZE: 1.22 ACRES (53,134 SF)
MINIMUM LOT WIDTH: 200 FEET
ACTUAL LOT WIDTH: 400 FEET
TAX MAP NUMBER: 63.2-1-39

<u>SETBACKS</u>	<u>REQUIRED</u>	<u>PROPOSED</u>
FRONT	50'-0"	41'-0"
SIDE	15'-0"	15'-0" & 70'-6"
REAR	30'-0"	38'-6"
 MAXIMUM BUILDING HEIGHT	 30'-0"	 27'-2"
MAXIMUM % PERMEABLE	60%	25.14%

PROPOSED SITE COVERAGE
TOTAL SITE AREA: 53,134 SF (100%)
BUILDING AREA: 13,222 SF (24.88%)
PAVING & WALK AREA: 26,558 SF (49.98%)
PERMEABLE AREA (GREEN SPACE): 13,354 SF (25.14%)

PARKING CALCULATIONS:
ASSEMBLY SPACE: 1 SPACE / 5 PERSONS (249 PERSONS) = 50 SPACES
OFFICE SPACE: 1 SPACE / 300 SF (1,664 SF) = 6 SPACES
BOARDING SPACE: 1 SPACE / BED (8 TOTAL BEDS) = 8 SPACES

TOTAL SPACES REQUIRED = 64 SPACES
TOTAL SPACES PROVIDED = 55 SPACES

PLANTING SCHEDULE

	DETAIL	QTY.	ABRV.	BOTANICAL NAME	COMMON NAME	SIZE	COND.	SPACING	COMMENT
TREES	<div>3</div> <div>C-520</div>	3	TC	TILLA CORDATA	LITTLE LEAF LINDEN	2.5'-3" CAL.	B&B	AS SHOWN	
		3	AR	ACER RUBRUM	RED MAPLE	2.5'-3" CAL.	B&B	AS SHOWN	
SHRUBS	<div>2</div> <div>C-520</div>	10	Sn	SPIREA NIPPONICA	SNOWMOUND SPIREA	#5 CONT.	--	AS SHOWN	
		13	Rp	RHOODENDRON 'FJM'	PM RHOODENDRON	3'-36"	--	AS SHOWN	
		18	Bm	BUXUS MICROPHYLLA KOREANA 'WINTERGREEN'	WINTERGREEN BOXWOOD	18'-24" HEIGHT	--	3'-5'	
		14	Ca	CRNUS ALBA SIBERICA	RED TWIG DOGWOOD	#5 CONT.	--	AS SHOWN	
		2	Ig	ILES GLABRA 'SHAMROCK'	INKBERRY	30"-36"	B&B	AS SHOWN	

SEE DRAWING C-520 FOR LANDSCAPING NOTES AND DETAILS.

LAYOUT :

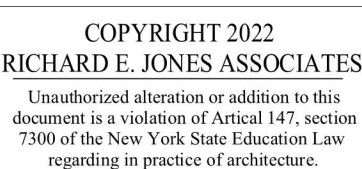
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL FIELD LAYOUT.
2. REFER TO ARCHITECTURAL DRAWINGS, IF APPLICABLE, FOR PRECISE BUILDING DIMENSIONS AND APPURTENANCES.
3. THE CONTRACTOR SHALL TAKE TIES TO ALL UTILITY CONNECTIONS AND PROVIDE MARKED-UP AS BUILT PLANS FOR ALL UTILITIES SHOWING TIES TO CONNECTIONS, BENDS, VALVES, LENGTHS OF LINES AND INVERTS. AS-BUILT PLANS SHALL BE REVIEWED BY THE OWNER/ARCHITECT AND THE ENGINEER AND THE CONTRACTOR SHALL PROVIDE ANY CORRECTION OR ADMISSIONS TO THE SATISFACTION OF THE OWNER/ARCHITECT AND THE ENGINEER BEFORE UTILITIES WILL BE ACCEPTED.

PAVING:

1. NO VEHICULAR TRAFFIC OF ANY SORT SHALL BE PERMITTED ON THE SURFACE OF SUBBASE COURSE MATERIAL ONCE IT HAS BEEN FINE GRADED, COMPACTED, AND IS READY FOR PAVING. SUBBASE MATERIAL SO PREPARED FOR PAVING SHALL BE PAVED WITHIN THREE DAYS OF PREPARATION.
2. SUBBASE MATERIAL AND THE VARIOUS ASPHALT CONCRETE MATERIALS CALLED OUT IN THESE DRAWINGS SHALL CONFORM WITH THE REFERENCED SECTION OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED JANUARY 1, 2018, INCLUDING ALL REVISIONS AND ADDENDUMS. CONSTRUCTION SHALL BE AS FURTHER SET FORTH IN THOSE SPECIFICATIONS AND AS OTHERWISE PROVIDED FOR IN THESE DRAWINGS.
3. PROOF ROLLING OF SUBGRADE SHALL BE WITNESSED BY THE ENGINEER. ALL UNSATISFACTORY AREAS, AS DETERMINED BY THE ENGINEER SHALL BE EXCAVATED AND REPLACED WITH SUBBASE MATERIAL TO THE ENGINEER'S SATISFACTION.
4. PLACE ASPHALT CONCRETE MIXTURE ON PREPARED SURFACE, SPREAD AND STRIKE-OFF USING A SELF-PROPELLED PAVING MACHINE, WITH VIBRATING SCREED. PLACEMENT IN INACCESSIBLE AND SMALL AREAS MAY BE BY HAND.
5. PROVIDE JOINTS BETWEEN OLD AND NEW PAVEMENTS OR BETWEEN SUCCESSIVE DAYS' WORK.
6. TACK COAT BINDER COURSE BEFORE PLACING TOP COURSE IF MORE THAN 48 HOURS HAVE ELAPSED AFTER PLACING BINDER COURSE.
7. ALL PAVEMENT RESTORATION SHALL MEET AND MATCH EXISTING GRADES.
8. AFTER COMPLETION OF PAVING AND SURFACING OPERATIONS, CLEAN SURFACES OF EXCESS OR SPILLAGE ASPHALT, GRAVEL OR STONE MATERIALS TO THE SATISFACTION OF THE ENGINEER.

STRIPING:

1. STRIPE PAVEMENT AS INDICATED ON THE PLANS AND/OR IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REQUIREMENTS.
2. COLOR:
 - ROAD CENTERLINE - DOUBLE YELLOW OR AOBE
 - DRIVE LANE DIVIDERS - WHITE OR AOBE
 - NO PARKING ZONE WARNINGS - WHITE OR AOBE
 - PARKING DIVIDERS - WHITE OR AOBE
 - WALKING LINES - WHITE OR AOBE
 - HANDICAP PARKING LINES & SYMBOL - BLUE

[illegible]

MOREAU EMERGENCY SQUAD
583 ROUTE 9
MOREAU, NEW YORK 12828
SITE PLAN - GRADING, DRAIN
AND UTILITIES

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DATE: 01-26-2026

SCALE: AS NOTED

DRAWN BY: Author

CHECKED BY: Checker

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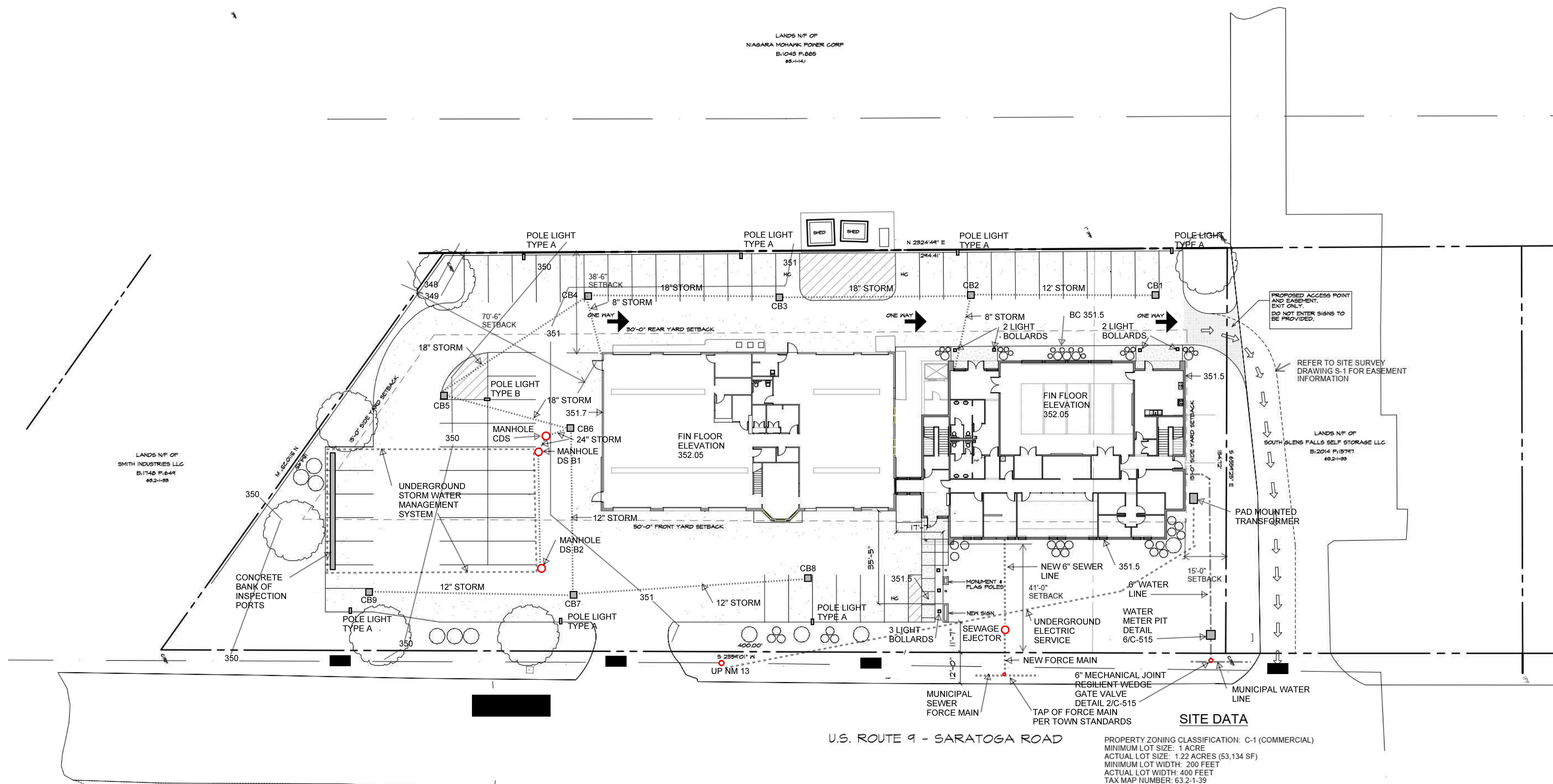
22-02

GRADING NOTES:

1. PRIOR TO SITE DISTURBANCE, CONTRACTOR TO INSTALL EROSION & SEDIMENT CONTROL MEASURES.
2. IF BEDROCK IS ENCOUNTERED, BLASTING MUST RECEIVE LOCAL APPROVAL. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY APPROVALS AND PERMITS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
3. REMOVE ALL VEGETATION, TREES, STUMPS, GRASSES, ORGANIC SOILS, DEBRIS, AND DELETERIOUS MATERIALS WITHIN THE AREAS SLATED FOR CONSTRUCTION.
4. STRIP ALL TOPSOIL PRIOR TO COMMENCING EARTHWORK OPERATIONS. TOPSOIL MAY BE STORED, SCREENED AND THEN REUSED IN LAWN AND PLANTING AREAS ONLY. TOPSOIL AND SEED ALL AREAS DISTURBED BY CONSTRUCTION THAT ARE TO REMAIN GREEN.
5. BOX ALL TREES AND HOUSE ALL SHRUBS AND HEDGES BEFORE PLACING EARTH AGAINST OR NEAR THEM. ORNAMENTAL TREES, SHRUBS AND HEDGES SHALL BE REMOVED DURING CONSTRUCTION SHALL BE HEALED IN AND RE-PLANTED IN AS GOOD OF CONDITION AS THEY WERE PRIOR TO THEIR REMOVAL. ANY DAMAGED TREES, SHRUBS, AND/OR HEDGES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
6. ALL EARTHWORK SHALL BE SMOOTHLY AND EVENLY BLENDED INTO EXISTING CONDITIONS. NO WORK, STORAGE OR TRESPASS SHALL BE PERMITTED BEYOND THE BOUNDARIES OF ANY EASEMENT OR PROPERTY LINE.
7. ALL EXISTING SURFACE APPURTENANCES (I.E. WATER VALVES, CATCH BASIN FRAMES AND GRADES, MANHOLE COVERS) WITHIN THE PROJECT LIMITS SHALL BE ADJUSTED TO FINISH GRADE FLUSH. AREAS DISTURBED OR DAMAGED AS PART OF THIS PROJECT'S CONSTRUCTION THAT ARE OUTSIDE OF THE "PRIME" WORK AREA SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE, TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
8. SLOPE SIDES OF EXCAVATIONS TO COMPLY WITH ALL LOCAL CODES AND ORDINANCES HAVING JURISDICTION. MAINTAIN SIDES AND SLOPES OF EXCAVATIONS IN A SAFE CONDITION UNTIL COMPLETION OF BACKFILLING. BACKFILL EXCAVATION AS PROMPTLY AS WORK PERMITS, BUT NOT WITHOUT ACCEPTANCE BY ENGINEER OF CONSTRUCTION BELOW FINISH GRADE.
9. PLACE BACKFILL AND FILL MATERIALS IN LAYERS NOT MORE THAN 8" IN LOOSE DEPTH. FILL MATERIAL SHALL BE FREE FROM DEBRIS, VEGETATION & DELETERIOUS MATERIAL. COMPACT ALL TRENCH BACKFILL TO 95% STANDARD PROCTOR.
10. GRAVEL AND SUB-BASE SHALL BE LAID IN 6" LIFTS AND SHALL CONFORM TO THE TYPICAL SECTION FOR PAVEMENT. ALL HOLES AND DEPRESSIONS SHALL BE FILLED WITH GRAVEL.

UTILITY NOTES:

1. ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN THEIR RELATIVE POSITION AND ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR TO VERIFY THEIR ACTUAL LOCATION AND INVERTS IN THE FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
2. EXPLORATORY EXCAVATIONS SHALL BE PERFORMED BY THE CONTRACTOR AT ALL UTILITY CONNECTION LOCATIONS AND AS NEEDED TO VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK.
3. ANY CONDITION ENCOUNTERED IN THE FIELD DIFFERING FROM THOSE SHOWN HEREON, SHALL BE REPORTED TO THE DESIGN ENGINEER BEFORE CONSTRUCTION IS TO PROCEED.
4. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO STARTING CONSTRUCTION ON ANY UTILITY CONNECTIONS/EXTENSIONS.
5. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIRED PERMITS AND ASSOCIATED CONDITIONS.
6. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES IN SERVICE FOR THE DURATION OF THE WORK.
7. CONTRACTOR TO VERIFY STATUS OF ALL UTILITY SERVICES PRIOR TO INTERRUPTION.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING UTILITY TRENCHES AND EXCAVATIONS AND FOR THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF THE WORK.
9. ALL TRENCH EXCAVATION AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH THE LATEST REVISIONS OF NEW YORK STATE INDUSTRIAL CODE RULE 23 AND OSHA REGULATIONS FOR CONSTRUCTION. SHEET PILING SHALL BE DESIGNED AND SEALED BY A NEW YORK STATE PROFESSIONAL ENGINEER.
10. ALL PROPOSED UTILITIES SHALL TERMINATE 5 FEET FROM ANY PROPOSED BUILDING FACE. CONTRACTOR TO COORDINATE WITH BUILDING PLANS FOR ANY CONNECTIONS.
11. SEWER MAINS IN RELATION TO WATER MAINS: WHERE POSSIBLE, SEWERS SHALL BE LAID AT LEAST 10 (TEN) FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. VERTICAL SEPARATION SHALL BE MAINTAINED TO PROVIDE 18 (EIGHTEEN) INCHES BETWEEN TOP OF SEWER AND BOTTOM OF WATER MAIN AT UTILITY CROSSLINGS. WHEN NOT POSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION, SEWER PIPE SHALL BE PRESSURE RATED AND TESTED @ 150 PSI, 10 (TEN) FEET ON EACH SIDE OF THE WATER MAIN BEING CROSSED.
12. ALL STORM SEWER SHALL BE SMOOTH INTERIOR HDPE UNLESS OTHERWISE SPECIFIED.
13. ALL GRAVITY SANITARY SEWER SHALL BE SDR-26 PVC UNLESS OTHERWISE SPECIFIED.
14. ALL WATER PIPE SHALL BE CLASS 52 DUCTILE IRON PIPE UNLESS OTHERWISE SPECIFIED.



CONSTRUCTION SEQUENCING NOTES:

1. HOLD PRE-CONSTRUCTION MEETING AT LEAST 1 WEEK PRIOR TO STARTING CONSTRUCTION WITH ALL INVOLVED PARTIES.
2. PRIOR TO COMMENCING ANY CLEARING, GRUBBING, EARTHWORK ACTIVITIES, ETC. AT THE SITE, THE CONTRACTOR SHALL FLAG THE WORK LIMITS AND SHALL INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES (I.E. SEDIMENT BARRIERS, TREE PROTECTION/BARRIER FENCES, STABILIZED CONSTRUCTION ACCESSES, STORM DRAIN SEDIMENT FILTERS, SEDIMENT TRAPS, ETC.) INDICATED ON THE PROJECT DRAWINGS OR AS NECESSARY. THE CONTRACTOR SHALL INSTALL INLET AND OUTLET PROTECTION MEASURES (RIPRAP OVERFLOW WEIR(S), CURVED INLET/OUTLET PROTECTION, ETC.), TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THEIR TRIBUTARY AREAS.
3. THE CONTRACTOR SHALL COMMENCE SITE CONSTRUCTION ACTIVITIES INCLUDING CLEARING & GRUBBING OF THE PROPOSED AREA OF DISTURBANCE AS REQUIRED.
4. ROUGH GRADE SITE, STOCKPILE TOPSOIL, CONSTRUCT DIVERSION CHANNELS AS NECESSARY AND INSTALL/RE-LOCATE SEDIMENT BARRIERS AS NEEDED.
5. INSTALL PROTECTIVE MEASURES AT THE LOCATIONS OF ALL GRATE INLETS, CURB INLETS, AND AT THE ENDS OF ALL EXPOSED STORM SEWER PIPES.
6. CONSTRUCT ALL UTILITIES, CURB AND GUTTER, GUTTER INLETS, AREA INLETS, AND STORM SEWER MANHOLES, AS SHOWN ON THE PLANS. INLET PROTECTION MAY BE REMOVED TEMPORARILY FOR THIS CONSTRUCTION. CONTRACTOR TO CONDUCT STORM SEWER NETWORK TO PRACTICE ONLY. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED.
7. FINALIZE PAVEMENT SUB-GRADE PREPARATION.
8. REMOVE PROTECTIVE MEASURES AROUND INLETS AND MANHOLES NO MORE THAN 24 HOURS PRIOR TO PLACING STABILIZED BASE COURSE.
9. INSTALL SUB-BASE MATERIAL AS REQUIRED FOR PAVEMENT.
10. REMOVE TEMPORARY CONSTRUCTION ACCESS ONLY PRIOR TO PAVEMENT CONSTRUCTION IN THESE AREAS (THESE AREAS TO BE PAVED LAST).
11. COMPLETE FINAL GRADING OF GROUNDS, TOPSOIL, AND PERMANENTLY VEGETATE, LANDSCAPE, AND MULCH.
12. PRIOR TO FINALIZING CONSTRUCTION OF THE STORMWATER MANAGEMENT FACILITY, ALL CATCH BASINS AND DRAINAGE LINES SHALL BE CLEARED OF ALL SILT AND SEDIMENT.
13. AFTER THE SITE IS STABILIZED THE CONTRACTOR SHALL CONNECT STORMWATER CONVEYANCE NETWORK TO UNDERGROUND INFILTRATION CHAMBERS, REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND AND ALL EXPOSED BARE SOIL. PERMANENT VEGETATION ON THE AREAS DISTURBED DURING THEIR REMOVAL.

PROPOSED SITE PLAN

$$1' - \beta''' = 2\beta' - \beta'''$$

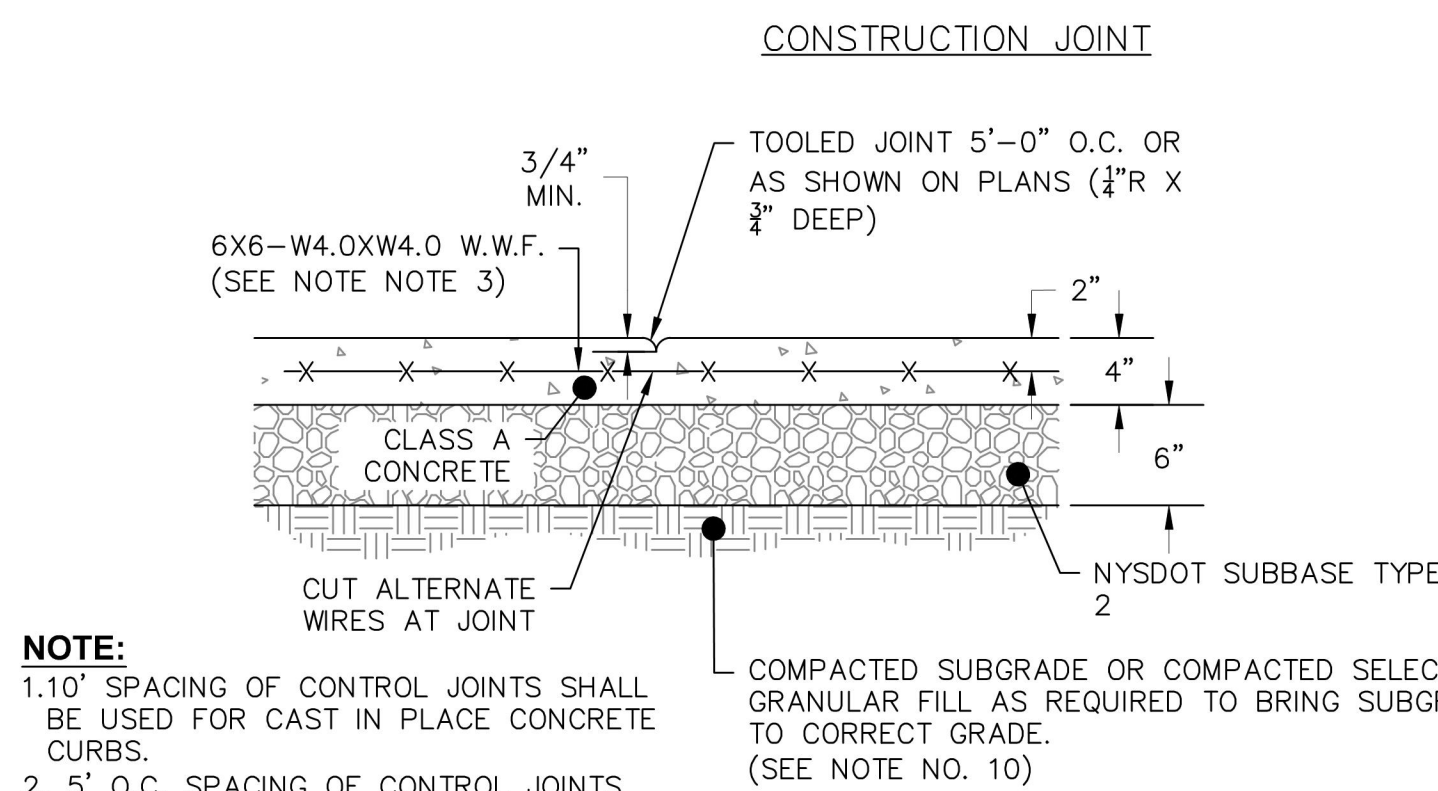
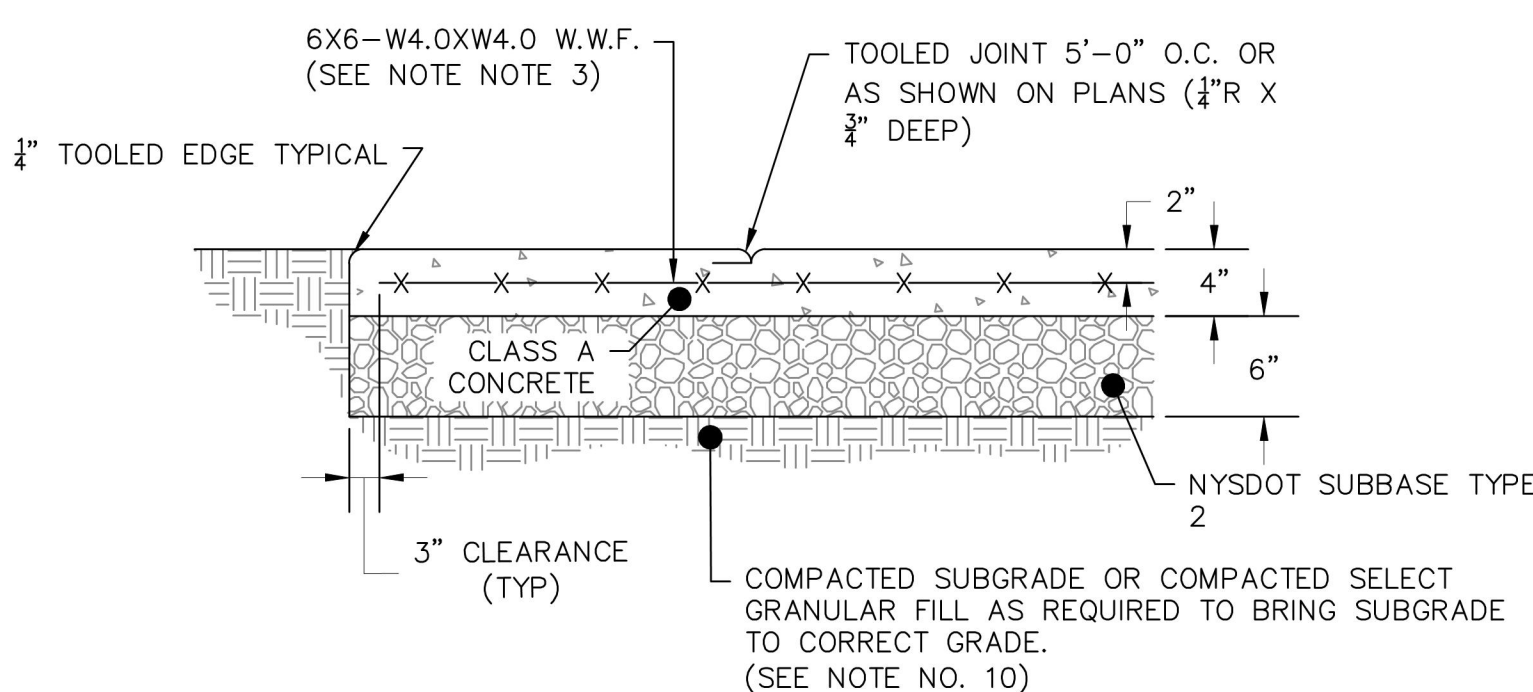
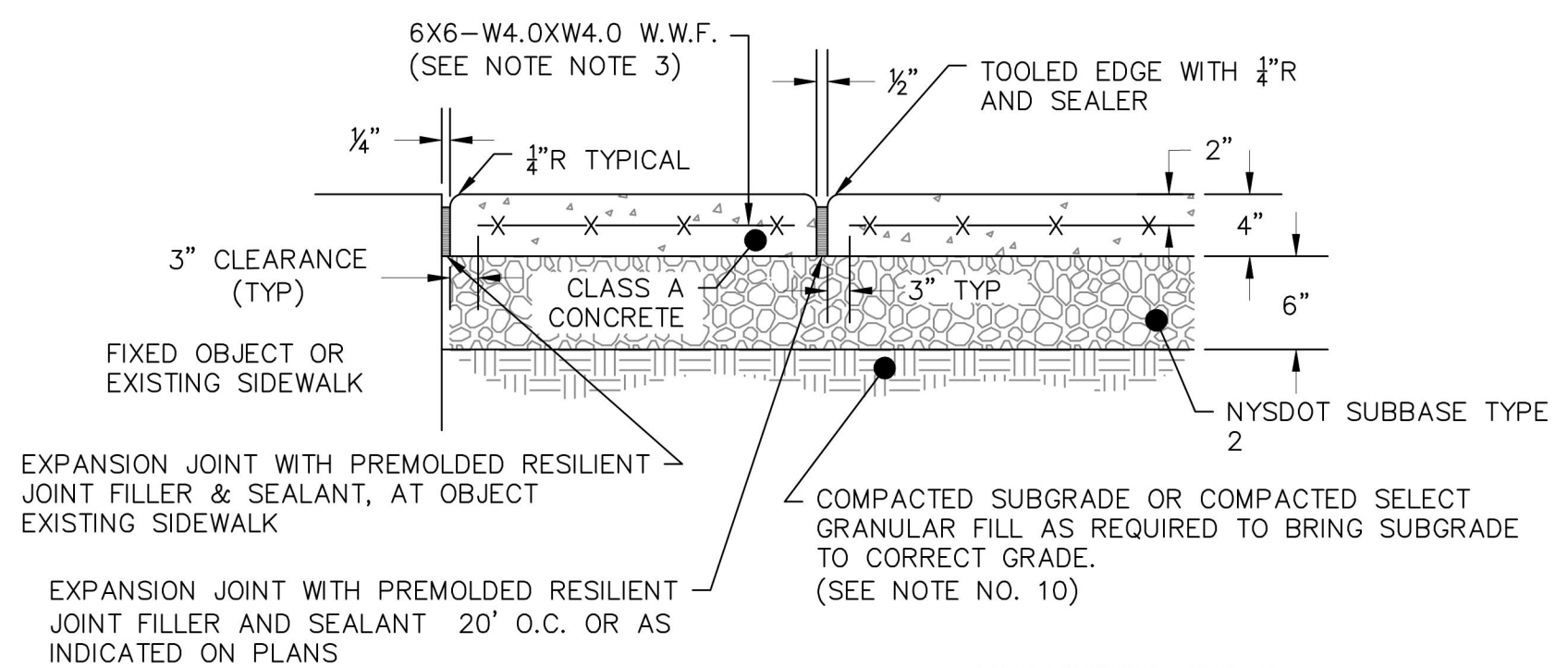
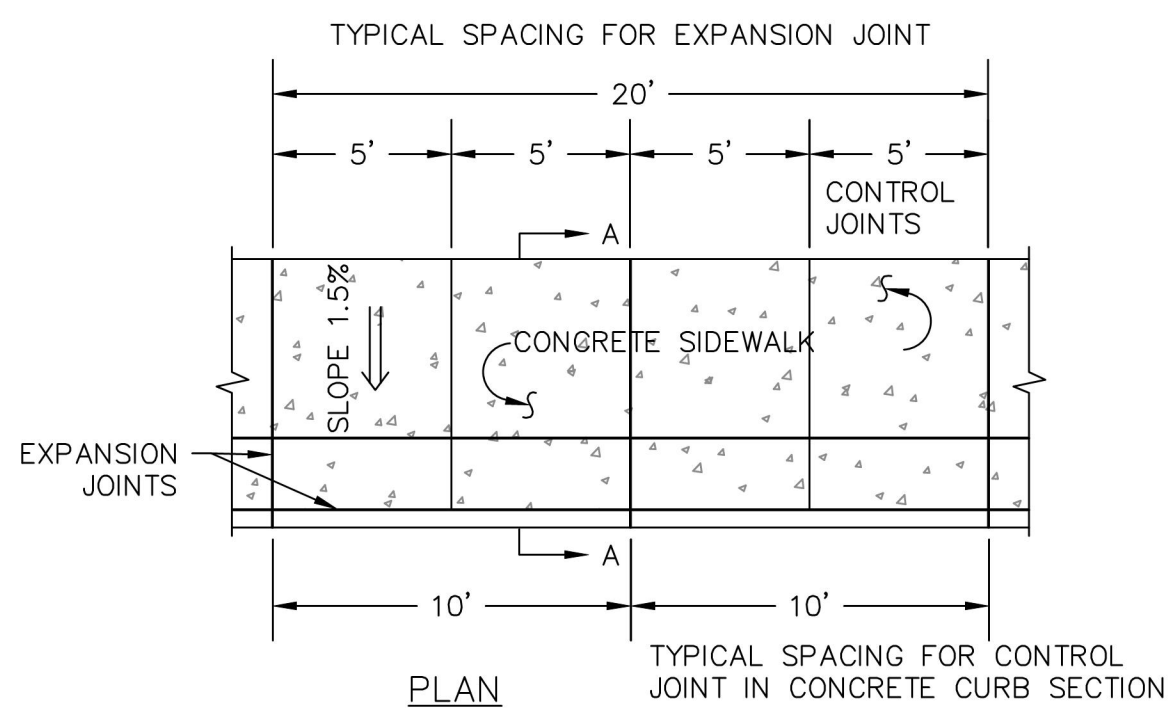

SETBACKS	REQUIRED	PROPOSED
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REAR	30'-0"	38'-6"

PROPOSED SITE COVERAGE
TOTAL SITE AREA: 53,134 SF (100%)
BUILDING AREA: 13,222 SF (24.88%)
PAVING & WALK AREA: 26,558 SF (49.98%)
PERMEABLE AREA (GREEN SPACE): 13,354 SF (25.14%)

PARKING CALCULATIONS:
ASSEMBLY SPACE: 1 SPACE / 5 PERSONS (249 PERSONS) = 50 SPACES
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BOARDING SPACE: 1 SPACE / BED (8 TOTAL BEDS) = 8 SPACES

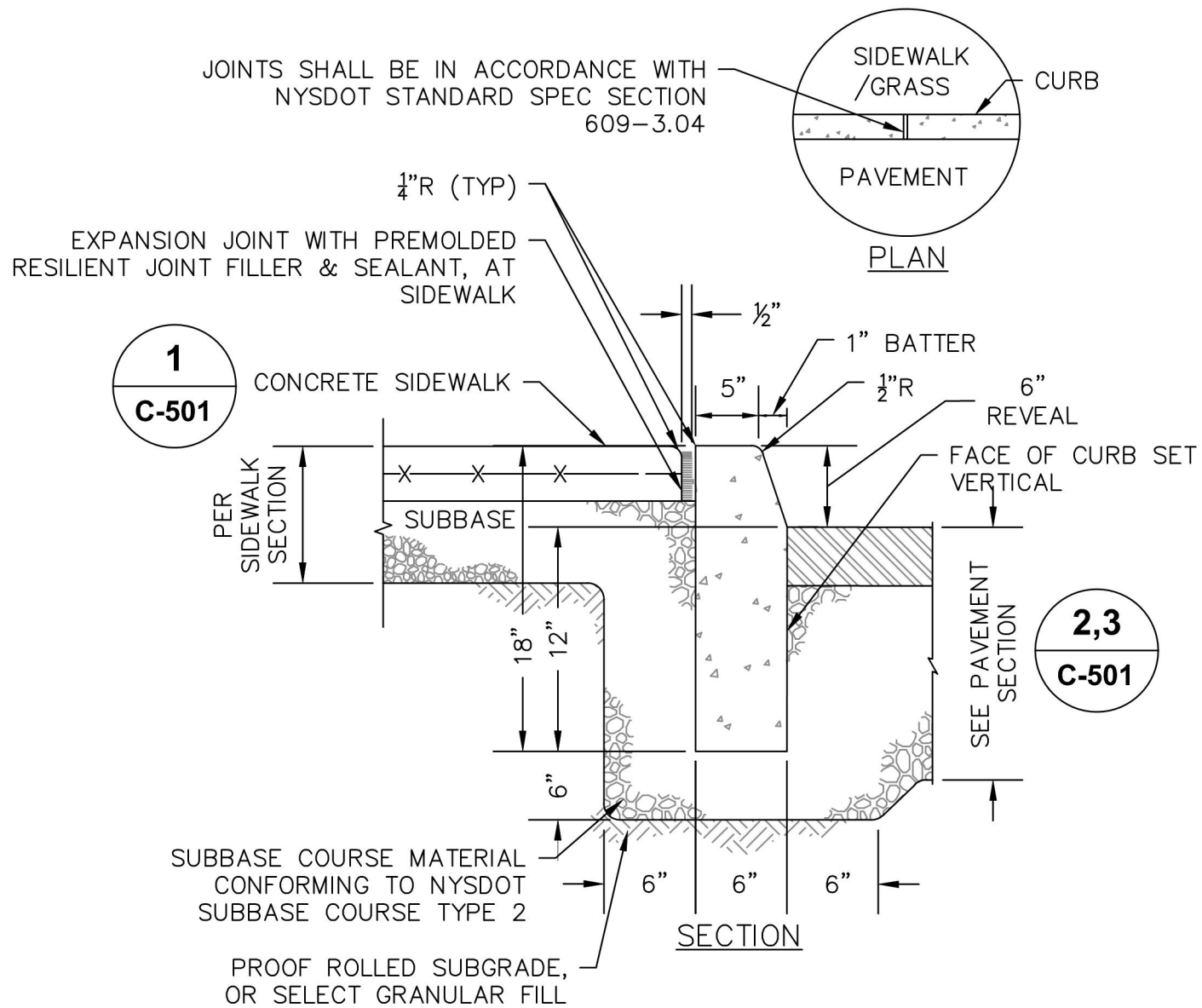
TOTAL SPACES REQUIRED = 64 SPACES
TOTAL SPACES PROVIDED = 55 SPACES

01/11/16
01/11/16
01/11/16



1 CONCRETE SIDEWALK DETAIL

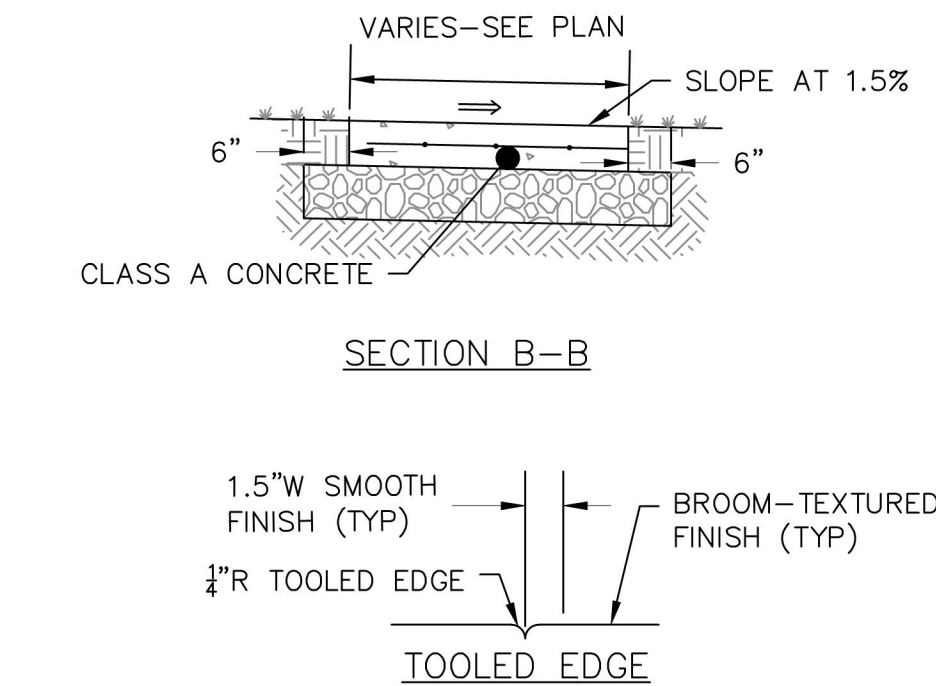
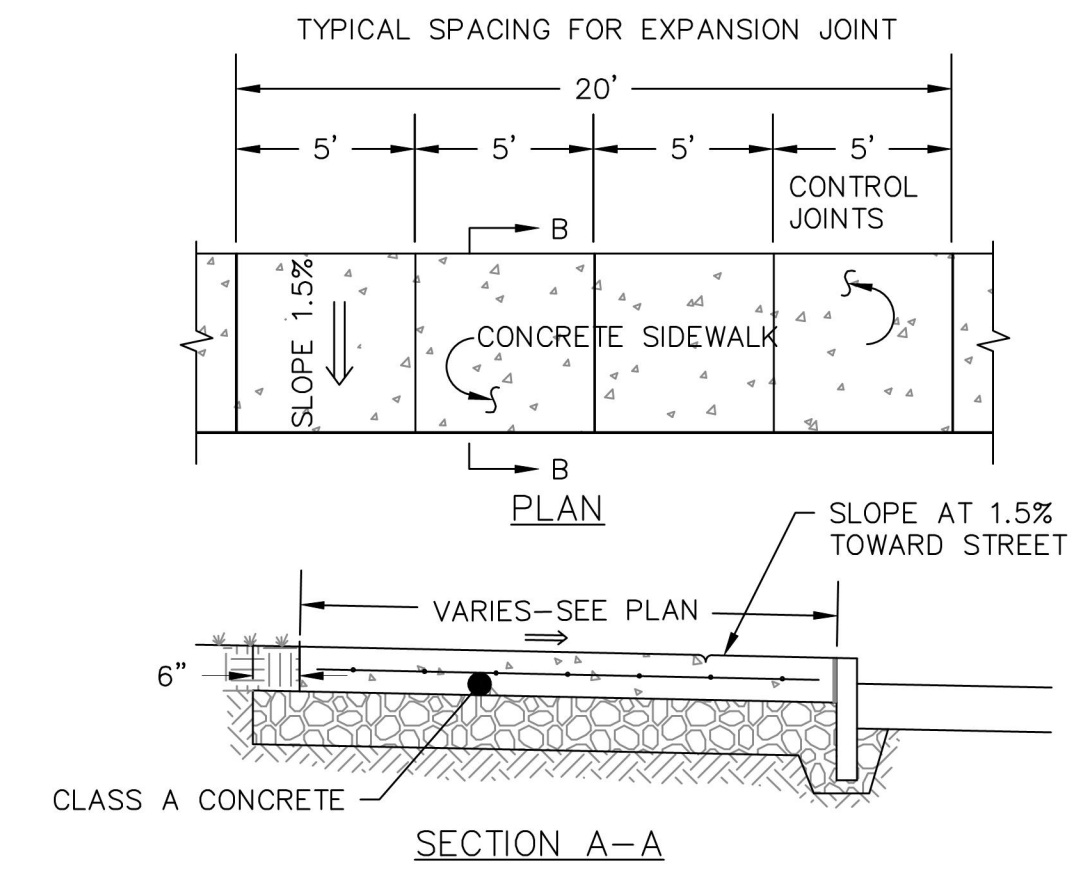
C-501 SCALE: NOT TO SCALE



- NOTES:**
1. CONCRETE CURB SHALL BE INSTALLED IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATION SECTION 609.
 2. PRECAST CONCRETE CURB MAY BE SUBSTITUTED, WHEN ALTERNATE CONSTRUCTION DETAILS ARE SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. ALTERNATE CURB SHALL BE INSTALLED IN ACCORDANCE WITH NYSDOT SPEC SECTION 609.

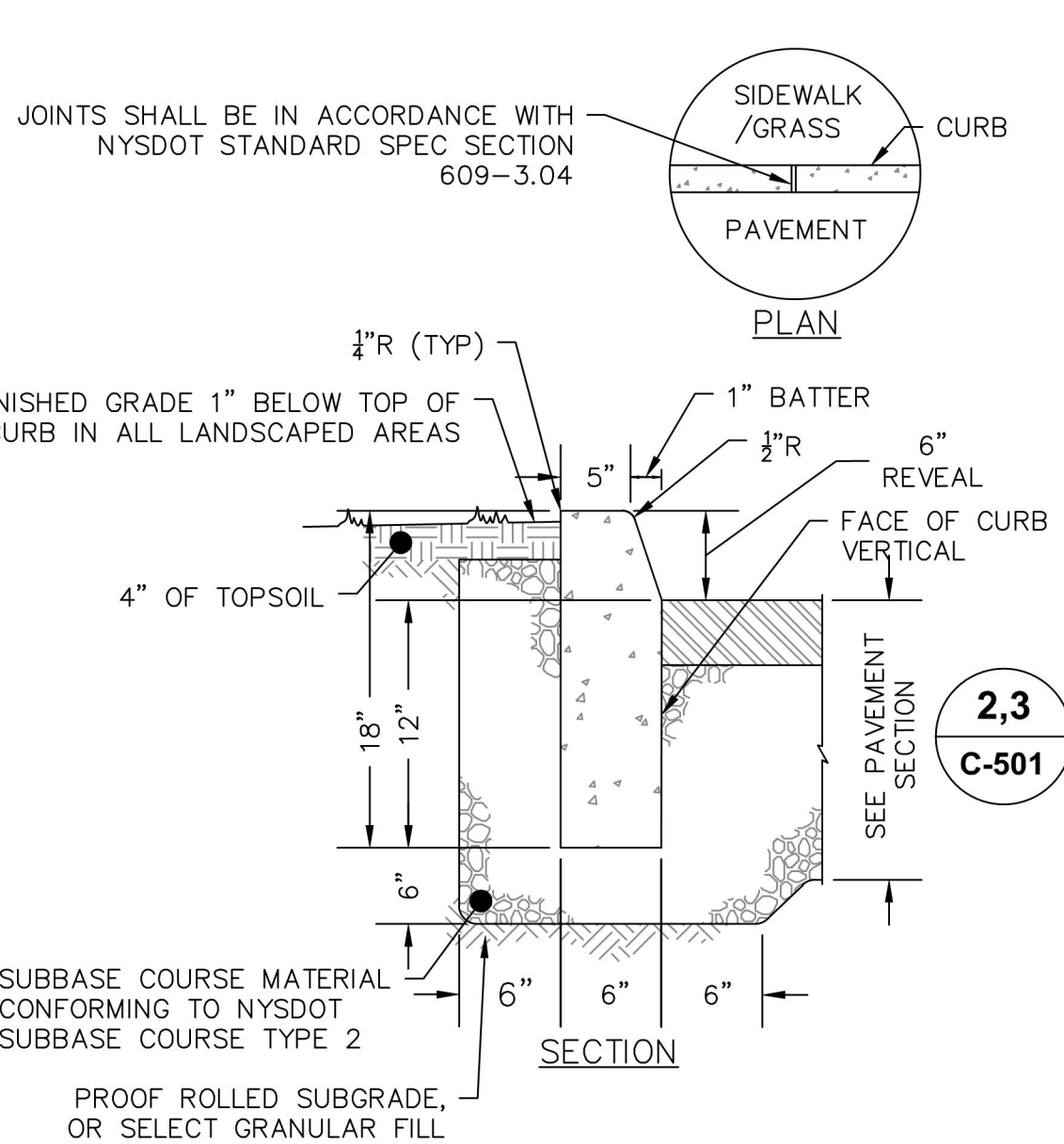
5 CAST IN PLACE CONCRETE CURB @ SIDEWALK

C-501 SCALE: NOT TO SCALE



SIDEWALK NOTES:

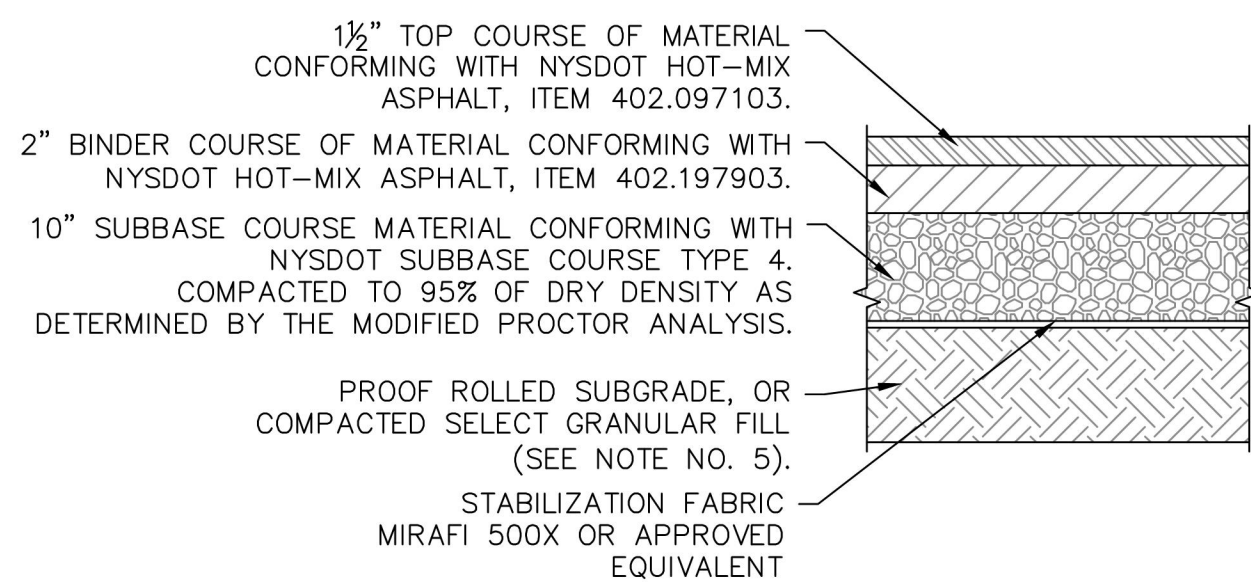
1. MATERIAL AND METHODS OF CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED JANUARY 9, 2014 AND AS AMENDED THEREAFTER; THE ONLY EXCEPTION BEING THAT THE WORK OF THIS CONTRACT SHALL BE MEASURED IN ENGLISH UNITS.
2. ALL CONCRETE SHALL BE 4000 PSI CLASS A CONCRETE. CONCRETE MATERIALS, PLACEMENT, AND CONSTRUCTION SHALL CONFORM WITH SECTION 500 OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
3. REINFORCING STEEL FOR CONCRETE SHALL CONFORM WITH SECTION 556 - REINFORCING STEEL FOR CONCRETE STRUCTURES OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND AS SPECIFICALLY CALLED OUT IN THE DRAWINGS.
4. ALL EXPOSED SURFACED SHALL HAVE A BROOM TEXTURED FINISH & TOOLED EDGES. TOOL SHALL BE PROVIDE MAX 1-1/2" WIDE SMOOTH TROWEL FINISH AT JOINT.
5. EXPANSION JOINTS SHALL BE LOCATED A MAXIMUM OF 20'-0" ON CENTER, OR AS INDICATED ON PLANS.
6. JOINTS SHALL NOT BE SAW CUT.
7. EXPOSED CONCRETE SURFACES SHALL BE TREATED WITH PROSOCCO, CONSOLIDOCK SALTGUARD WB PENETRATING WATER & SALT BARRIER OR APPROVED EQUAL. RATE AND METHOD OF APPLICATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
8. SUBBASE MATERIAL SHALL CONFORM WITH SECTION 304 OF THE ABOVE REFERENCED NYSDOT STANDARD.
9. WHERE IT IS NECESSARY TO PLACE FILL FOR PURPOSE OF BRINGING THE SUBGRADE ELEVATION UP TO A SPECIFIED GRADE, THE FILL MATERIAL PLACED SHALL BE IN CONFORMANCE WITH SECTION 203-EXCAVATION AND EMBANKMENT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
10. ALL WORK SHALL CONFORM WITH SECTION 608-SIDEWALK, DRIVEWAYS, AND BICYCLE PATHS OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.



- NOTES:**
1. CONCRETE CURB SHALL BE INSTALLED IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATION SECTION 609.
 2. PRECAST CONCRETE CURB MAY BE SUBSTITUTED, WHEN ALTERNATE CONSTRUCTION DETAILS ARE SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. ALTERNATE CURB SHALL BE INSTALLED IN ACCORDANCE WITH NYSDOT SPEC SECTION 609.

6 CAST IN PLACE CONCRETE CURB

C-501 SCALE: NOT TO SCALE

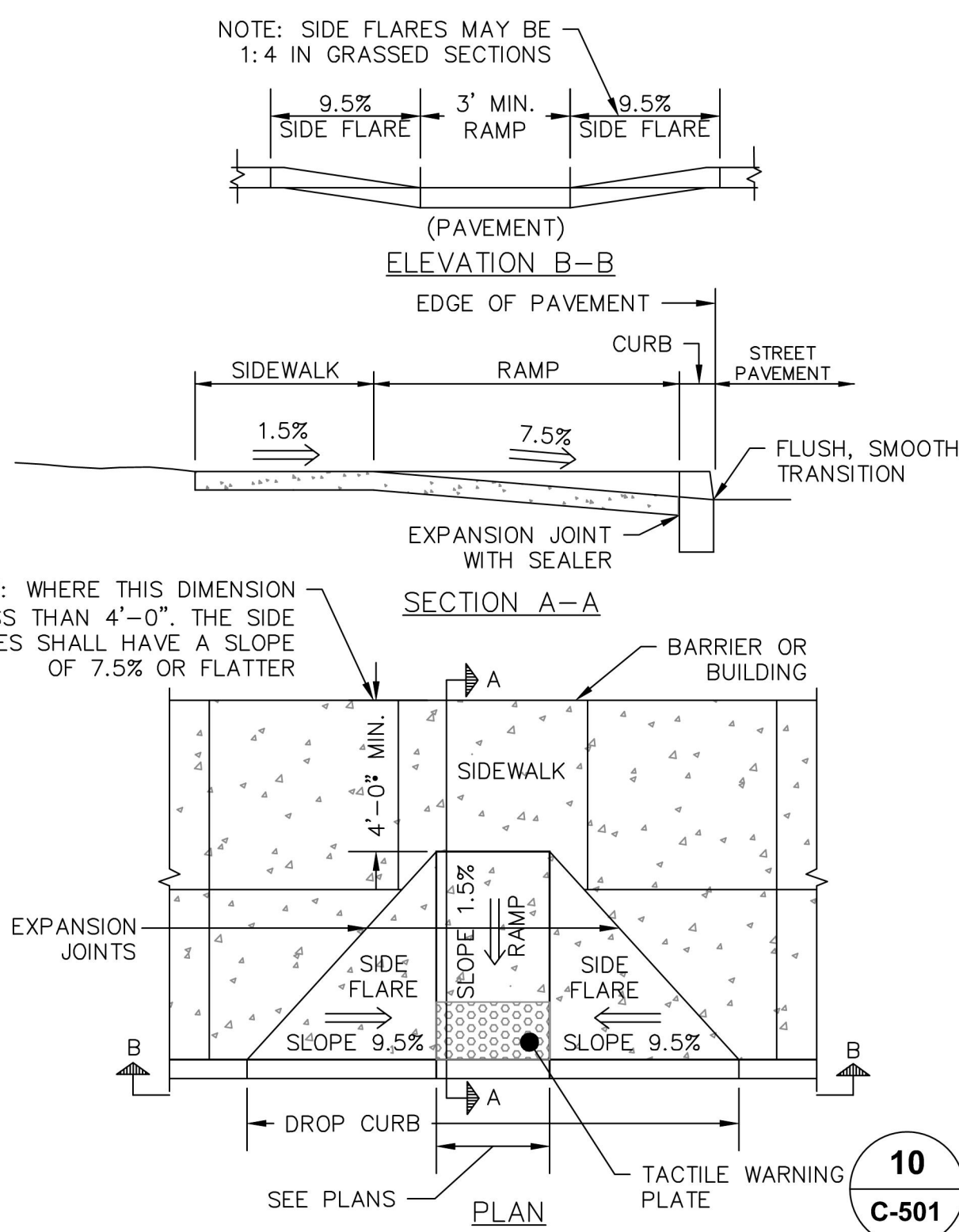


NOTES:

1. MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED JANUARY 9, 2014, AND ALL ADDENDA THERETO; THE ONLY EXCEPTION BEING THAT THE WORK OF THIS CONTRACT SHALL BE MEASURED IN ENGLISH UNITS.
2. SUBBASE MATERIAL SHALL CONFORM WITH SECTION 304 - SUBBASE COURSE OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND THE TYPE CALLED OUT IN THESE DRAWINGS.
3. HOT MIX ASPHALT (HMA) PAVEMENT SHALL CONFORM WITH SECTION 400-HOT MIX ASPHALT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND THE ITEM NUMBER CALLED OUT IN THESE DRAWINGS. ALTHOUGH SECTION 400 IN ITS ENTIRETY IS REFERENCED, THE HOT MIX ASPHALT (HMA) PAVEMENT(S) SPECIFIED FOR THIS CONTRACT SHALL BE AS SPECIFIED UNDER SECTION 402-HOT MIX ASPHALT (HMA) PAVEMENTS.
4. TACK COAT WHEN SPECIFIED OR CALLED OUT IN THESE DRAWINGS OR REQUIRED BY THE REFERENCED SPECIFICATIONS SHALL CONFORM WITH SECTION 407-TACK COAT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
5. APPLY TACK COAT TO ASPHALT PAVEMENT SURFACES AND SURFACES OF CURBS BELOW PAVEMENT LEVEL, GUTTERS, MANHOLES, AND OTHER STRUCTURES PROJECTING INTO OR ABUTTING PAVEMENT. TACK COAT ENTIRE VERTICAL SURFACE OF ABUTTING EXISTING PAVEMENT. DRY TO A "TACKY" CONSISTENCY BEFORE PAVING.
6. WHERE IT IS NECESSARY TO PLACE FILL FOR PURPOSES OF BRINGING THE SUBGRADE ELEVATION UP TO A SPECIFIED GRADE, THE FILL MATERIAL PLACED SHALL BE IN CONFORMANCE WITH SECTION 203-EXCAVATION AND EMBANKMENT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
7. REMOVE LOOSE AND FOREIGN MATERIAL FROM ASPHALT SURFACE BEFORE PAVING NEXT COURSE. USE POWER BROOMS, BLOWERS OR HAND BROOM.

2 TYPICAL ASPHALT CONCRETE PAVEMENT

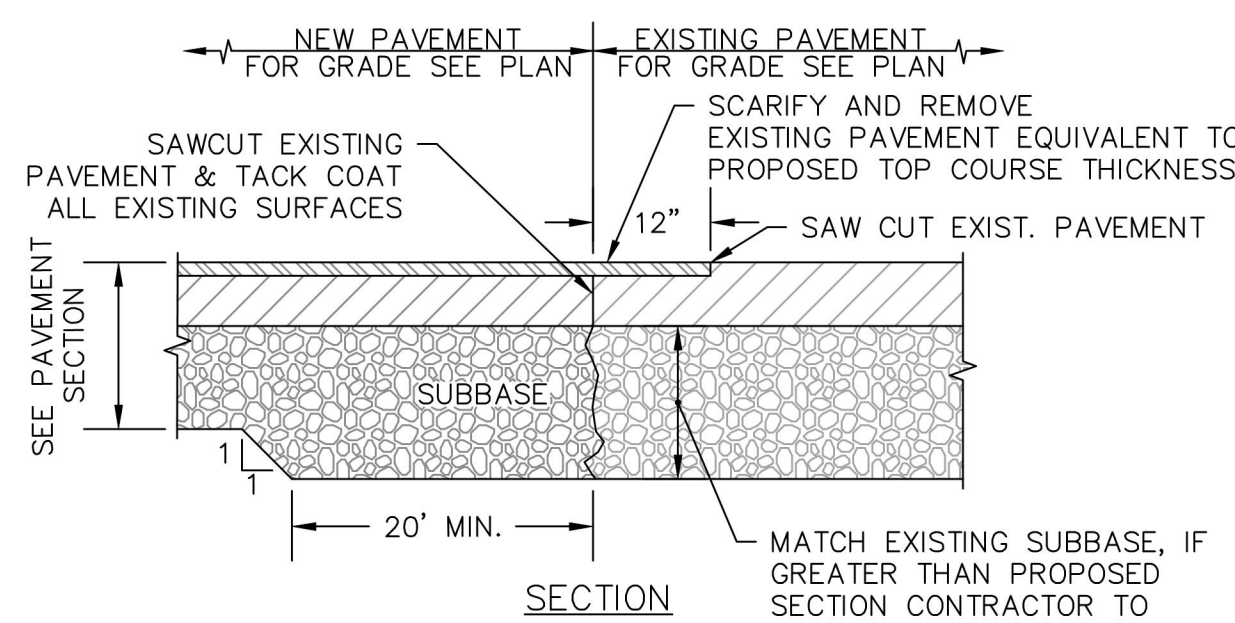
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- NOTES:**
1. ALL WORK SHALL CONFORM WITH THE NYSDOT STANDARD SPECIFICATION FOR CONSTRUCTION AND MATERIALS DATED, JANUARY 1, 2017 AND ALL ADDENDA THERETO; SPECIFICALLY SECTION 608- SIDEWALKS, DRIVEWAYS, AND BICYCLE PATHS.
 2. SLOPE RAMP AND SIDE FLARES AS INDICATED IN THE PLANS OR AS ORDERED BY THE ENGINEER.
 3. TACTILE WARNING STRIPS SHALL BE PROVIDED ON ALL RAMPS IN ACCORDANCE W/ ADA REQUIREMENTS.
 4. WHERE NO PEDESTRIAN CIRCULATION PATH CROSSES THE CURB RAMP, SIDE FLARES MAY BE INSTALLED AT 25% MAX.

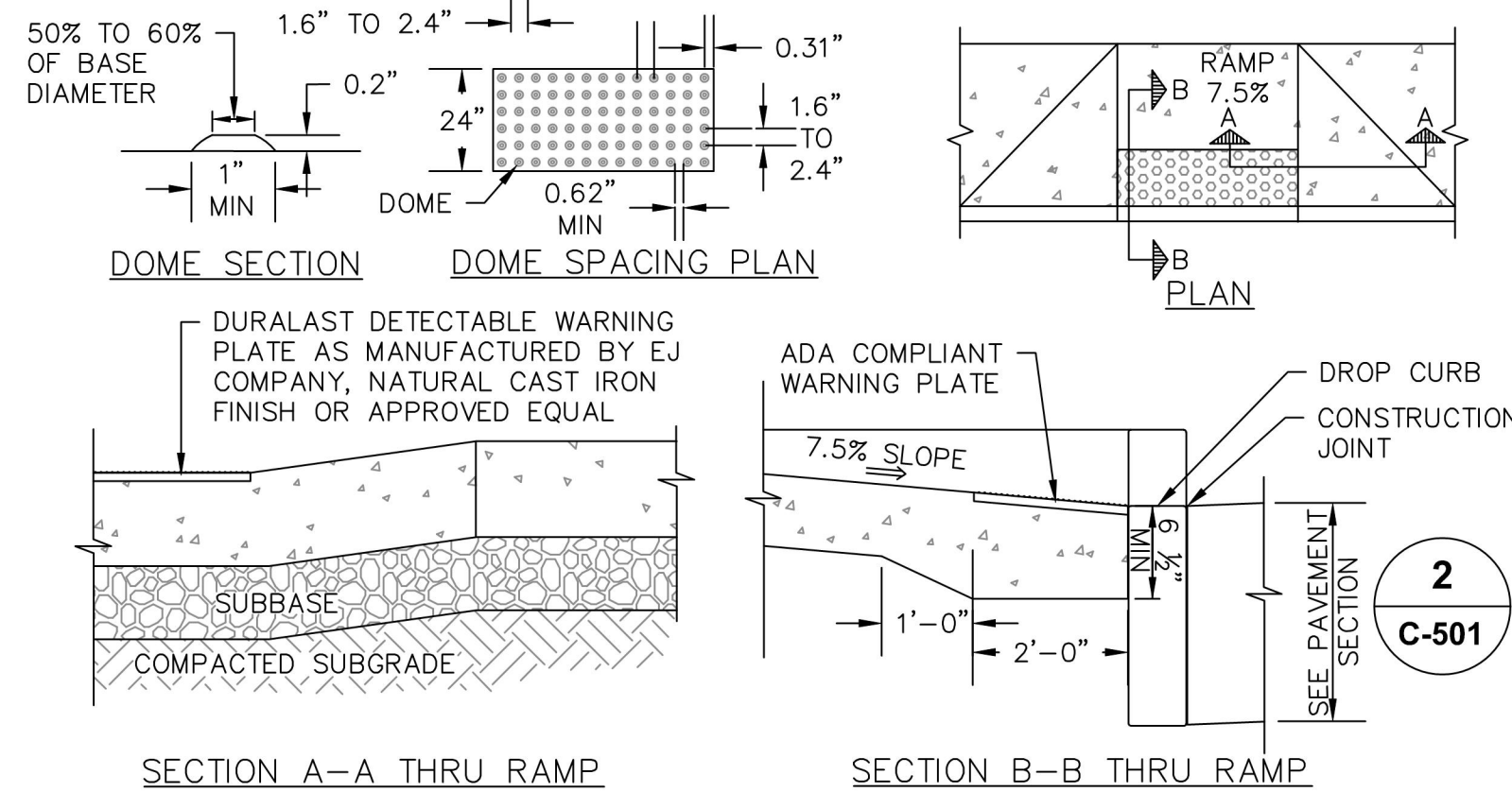
7 ADA RAMP WITH FLARED SIDE SLOPES

C-501 SCALE: NOT TO SCALE



4 PAVEMENT TRANSITION

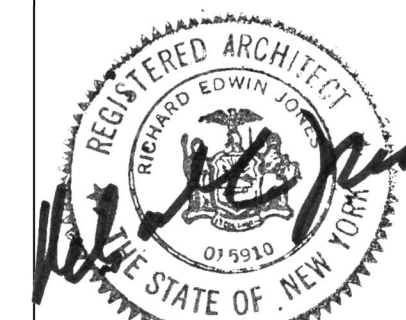
C-501 SCALE: NOT TO SCALE



- NOTES:**
1. TACTILE WARNING STRIP SHALL BE ADA COMPLIANT INCLUDING VISUALLY CONTRASTING WITH ADJOINING SURFACES.

8 TACTILE WARNING FOR RAMPS

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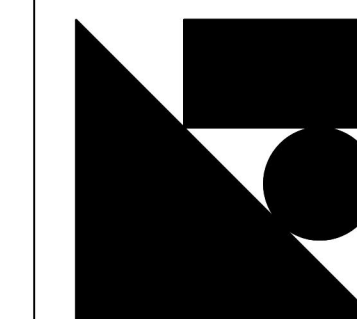
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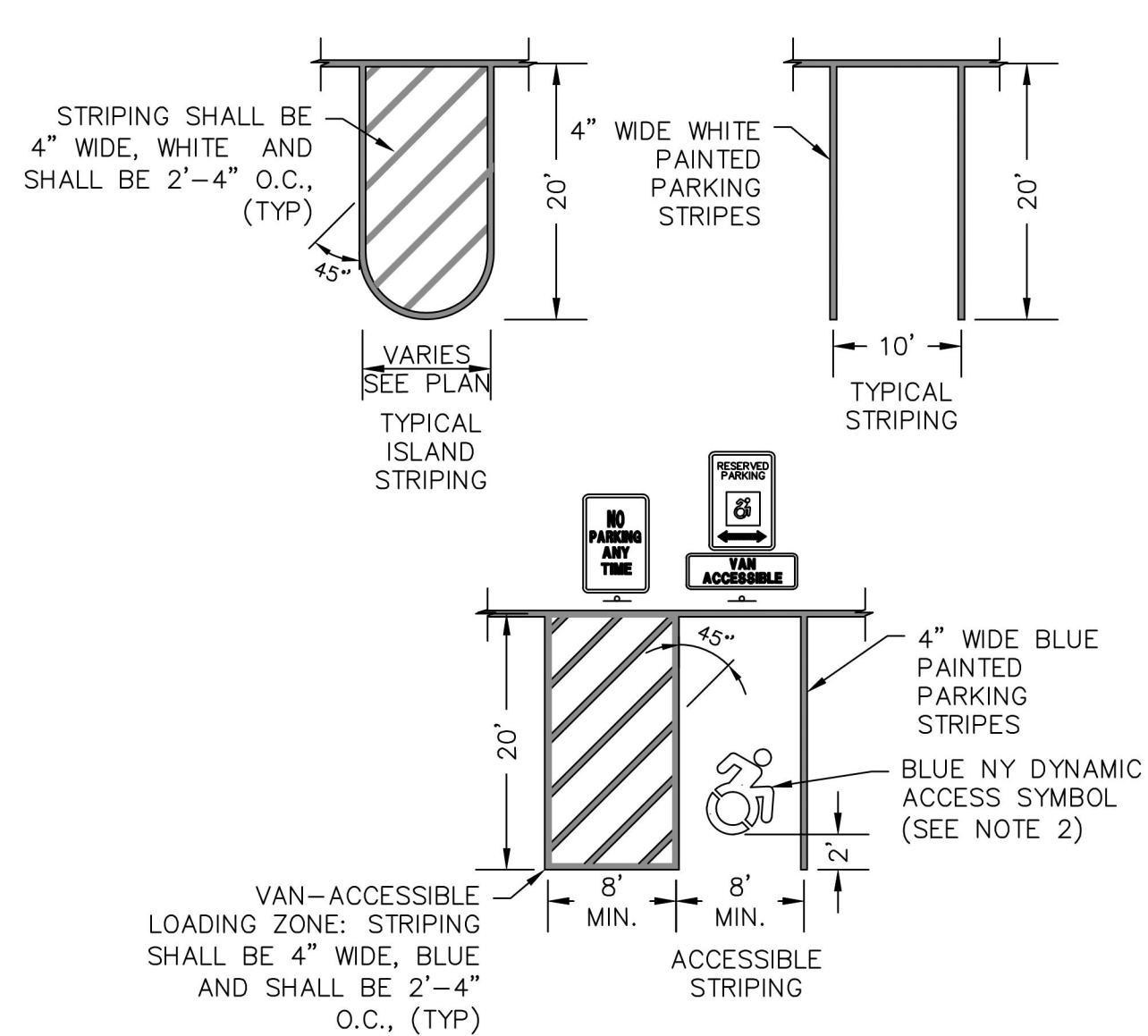
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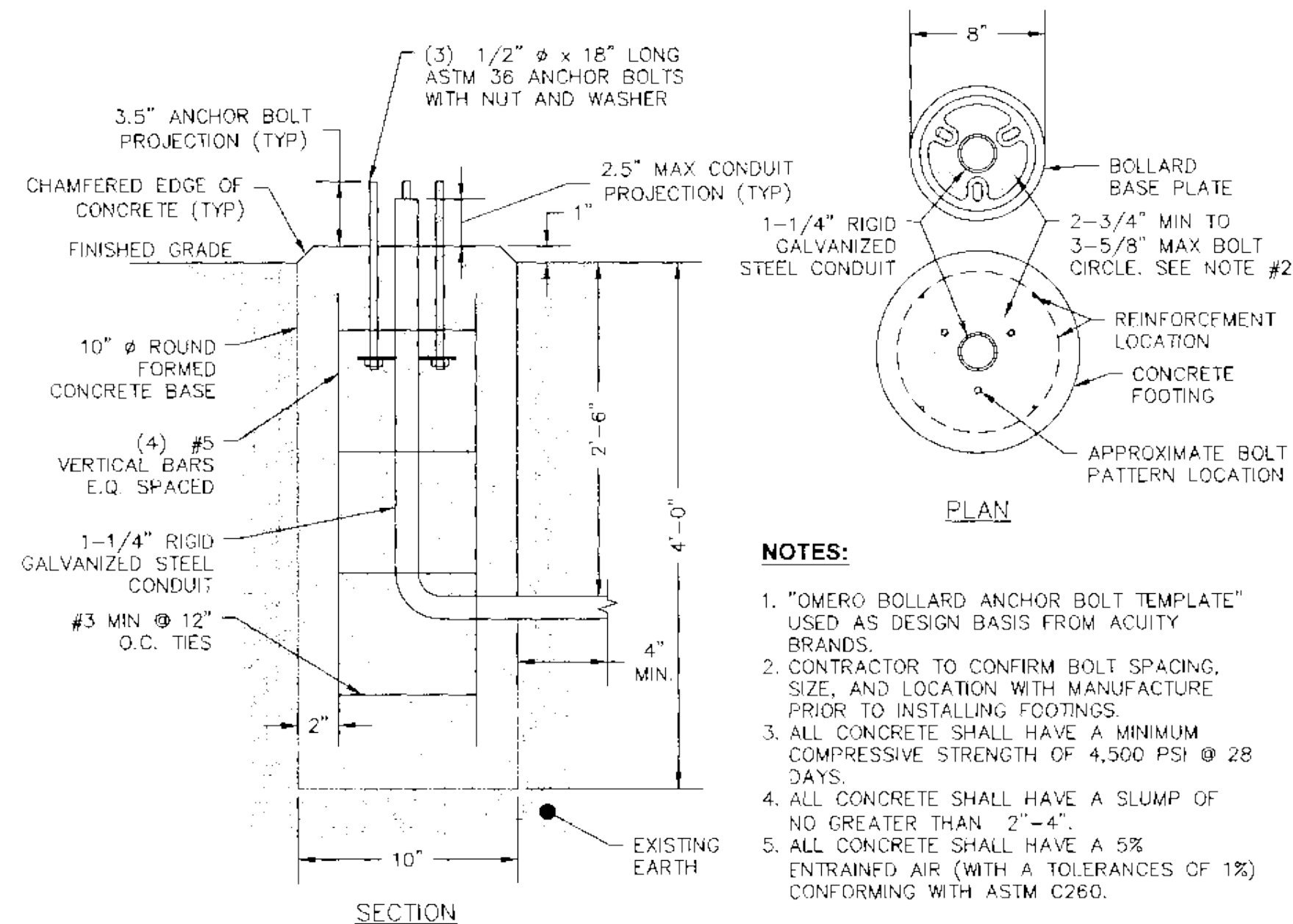


- NOTES:**
1. ALL DIMENSIONS SHALL BE IN ACCORDANCE WITH ADA STANDARD AND CURRENT ZONING AND SITE REGULATIONS.
 2. PAINTED DYNAMIC ACCESS SYMBOL TO BE IN ACCORDANCE WITH NEW YORK LAW.
 3. SLOPE OF PAVEMENT SURFACE IN ACCESSIBLE PARKING AREA SHALL NOT EXCEED 2% IN ANY DIRECTION.
 4. SEE PLAN FOR ACTUAL SIGN LOCATIONS.

PAVEMENT STRIPING DETAILS AND ACCESSIBLE PARKING STALL

1
C-502

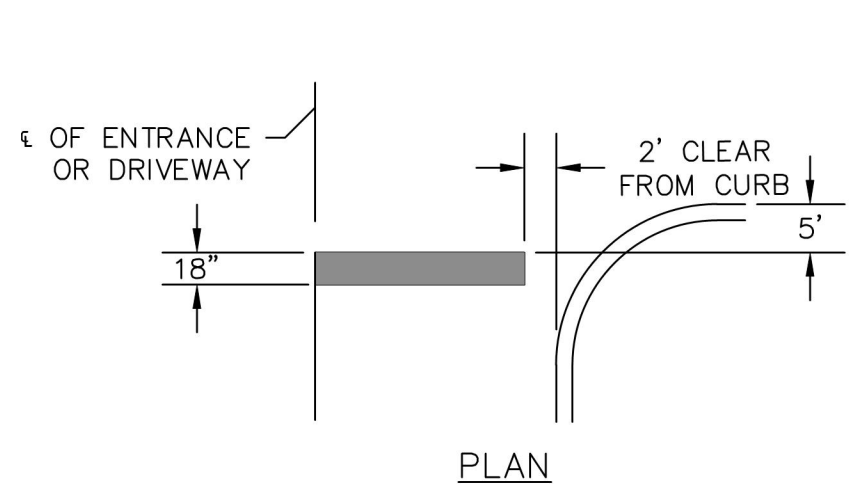
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BOLLARD LIGHT FOOTING DETAIL

15
C-502

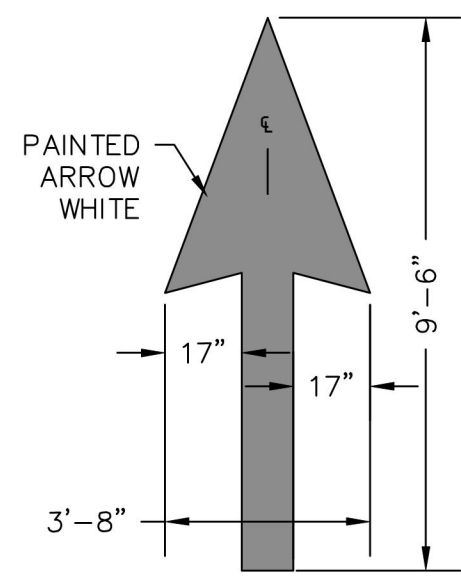
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STOP BAR

2
C-502

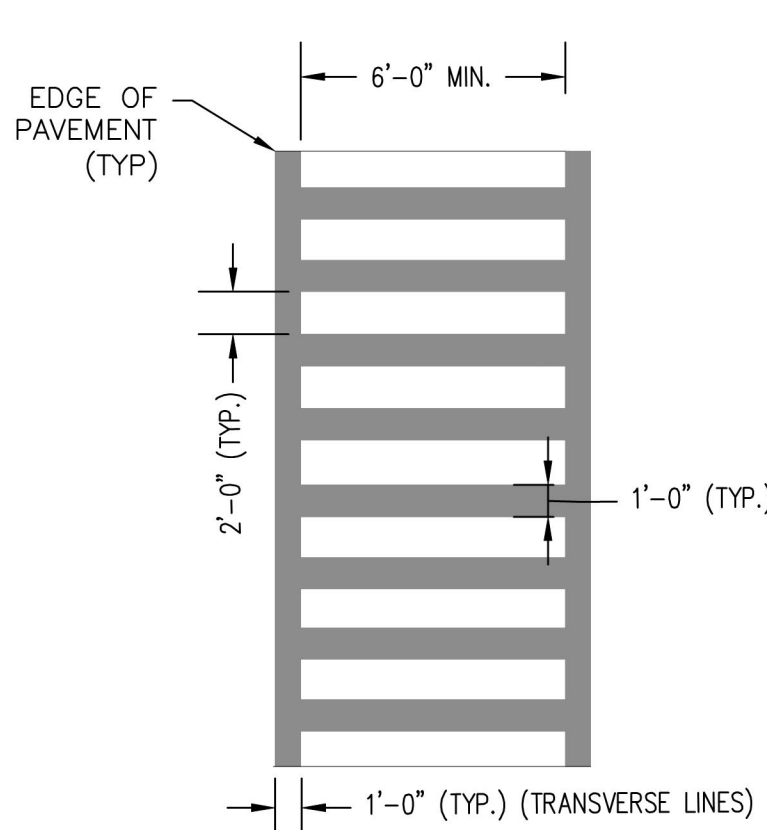
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DIRECTIONAL ARROW MARKING

3
C-502

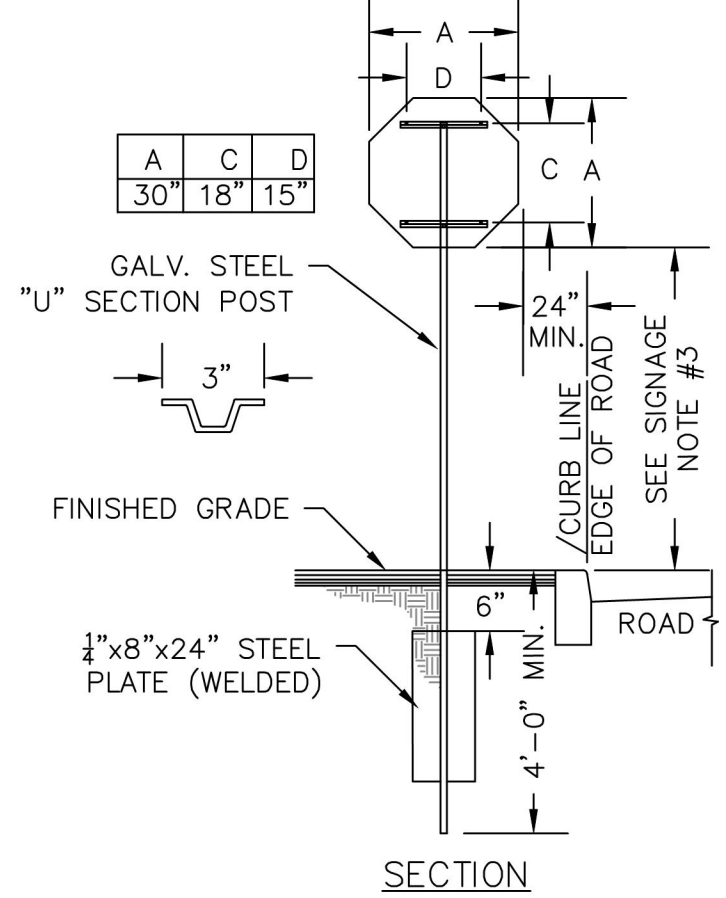
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CROSSWALK TYPE LS PAVEMENT MARKING

4
C-502

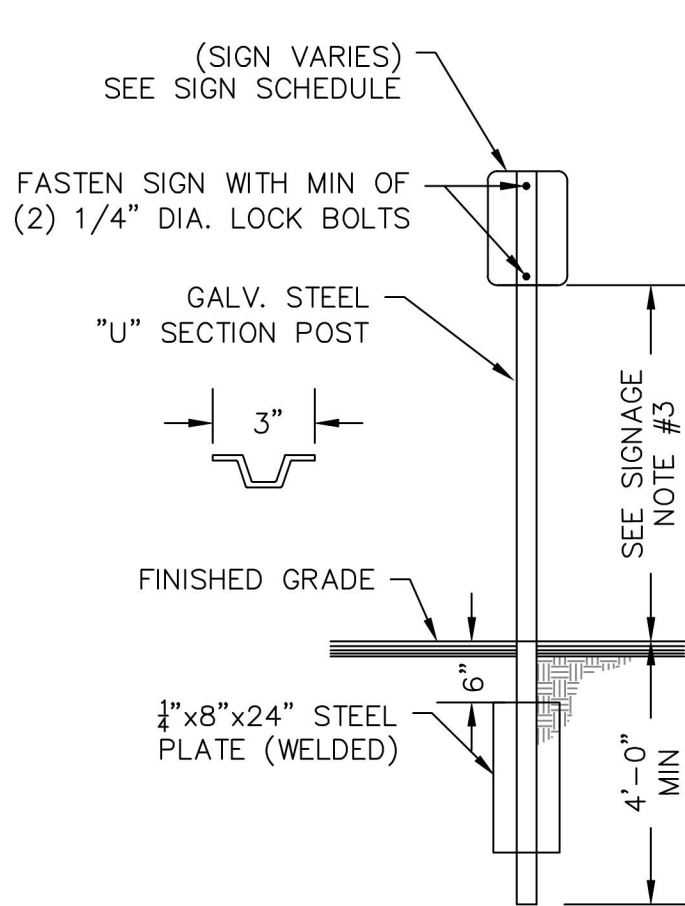
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SINGLE POST STOP SIGN MOUNTING DETAIL

5
C-502

SCALE: NOT TO SCALE



SINGLE POST SIGN MOUNTING DETAIL

6
C-502

SCALE: NOT TO SCALE

SIGN SCHEDULE					
SIGN NO.	SIGN FACE	NUMBER	MIN SIZE	COLORS	
				BCK GRND	LEGEND
1	STOP	R1-1	30"x30"	RED	WHITE
2	RESERVED PARKING	NY R7-8D	12"x18"	WHITE/BLUE	GREEN/WHITE
3	NO PARKING ANY TIME	R7-1	12"x18"	WHITE	RED
4	VAN ACCESSIBLE	R7-8p	12"x6"	WHITE	BLUE
5	ONE WAY	R6-1L/R	36"x12"	BLACK	BLACK/WHITE
6	DO NOT ENTER	R5-1	30"x30"	WHITE	WHITE/RED

SIGNAGE AND PAVEMENT MARKING NOTES:

1. ALL SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST EDITION OF THE NYSDOT STANDARD SPECIFICATIONS, SECTION 640 & 645 AND THE "NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" - 2009 EDITION AND THE "NYS SUPPLEMENT."
2. SIGN POST SHALL BE IN ACCORDANCE W/ NYSDOT STANDARD SPECS SECTION 730.
3. SIGN MOUNTING HEIGHT SHALL BE A MINIMUM OF 7'. MINIMUM MOUNTING HEIGHT MAY BE ADJUSTED ONLY IN ACCORDANCE WITH PROVISIONS OUTLINED IN THE "NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" - 2009 EDITION AND THE "NYS SUPPLEMENT."
4. STRIPING WORK WILL BE REVIEWED AND ACCEPTED BY THE ENGINEER.

SIGN FACE SCHEDULE

7
C-502

SCALE: NOT TO SCALE

NOTES:

1. PIPE BEDDING & PIPE ZONE BACKFILL SHALL BE A NATURAL RUN-OF-BANK (R.O.B.) SAND OR A MIXTURE OF CRUSHED STONE AND GRAVEL, FREE OF SOFT, NONDURABLE PARTICLES, ORGANIC MATERIALS AND ELONGATED PARTICLES, AND SHALL BE WELL GRADED FROM FINE TO COARSE PARTICLES. BEDDING GRADATIONS SHALL BE APPROVED BY THE ENGINEER AND SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:

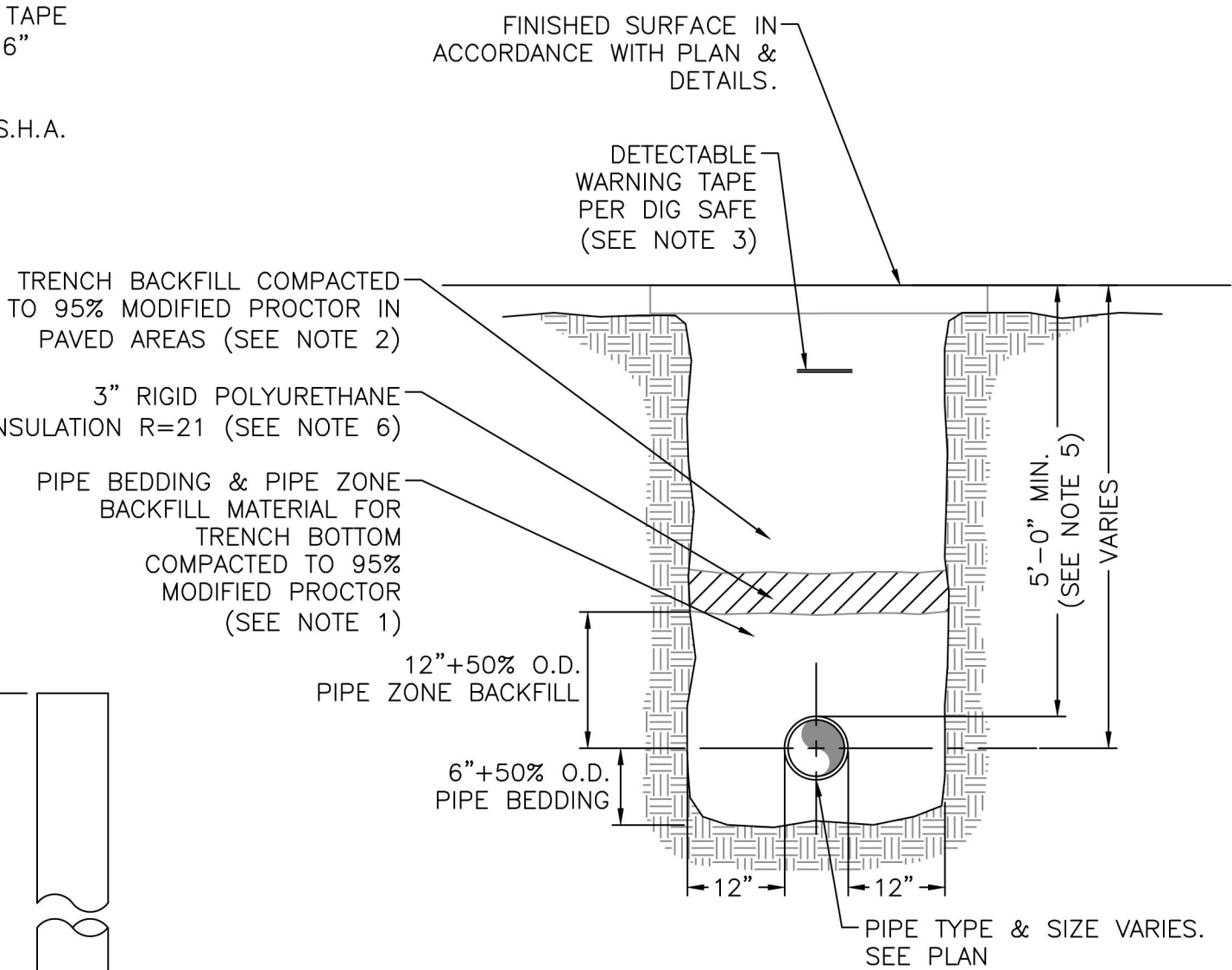
SIEVE DESIGNATION	% PASSING
3/4"	100%
NO. 40	0-70%
NO. 200	0-10%

2. TRENCH BACKFILL SHALL BE A NATURAL RUN-OF-BANK (R.O.B.) OR PROCESSED GRAVEL, OR EXCAVATED MATERIAL FREE OF SOFT, NONDURABLE PARTICLES, ORGANIC MATERIALS AND ELONGATED PARTICLES, AND SHALL BE WELL GRADED FROM FINE TO COARSE PARTICLES. TRENCH BACKFILL GRADATIONS SHALL BE APPROVED BY THE ENGINEER AND SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE DESIGNATION	% PASSING
4"	100%
NO. 40	0-70%
NO. 200	0-10%

IN UNPAVED AREAS TRENCH BACKFILL CAN BE MATERIALS EXCAVATED FROM THE TRENCH AS APPROVED BY THE ENGINEER.

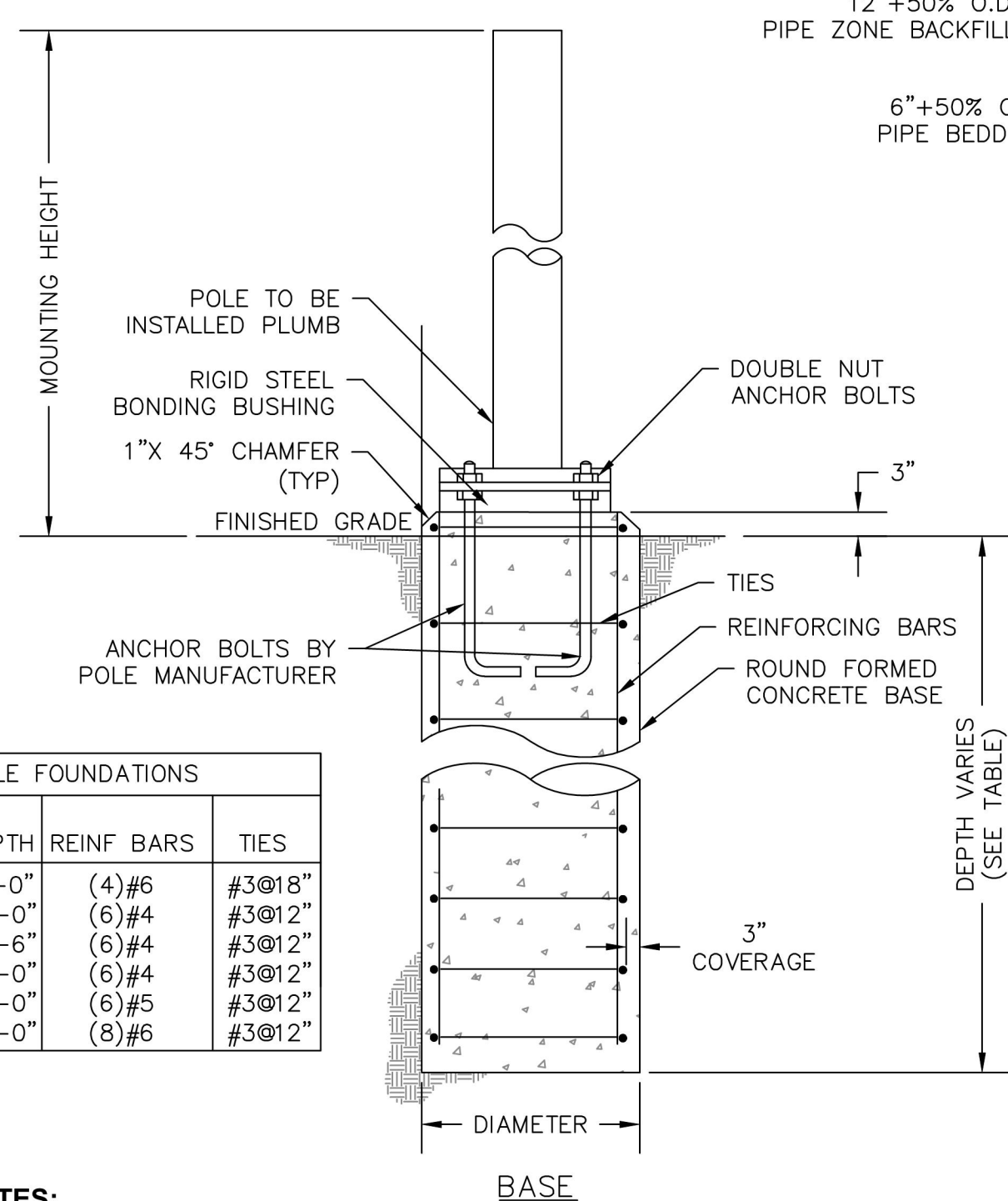
3. INSTALL CONTINUOUS DETECTABLE MARKING TAPE DURING BACKFILLING OF TRENCH FOR UNDERGROUND PIPING. LOCATE TAPE 12" BELOW FINISHED GRADE, DIRECTLY OVER PIPING, EXCEPT 6" BELOW SUBGRADE UNDER PAVEMENTS & SLAB.
4. TRENCHING SHALL BE IMPLEMENTED IN ACCORDANCE WITH O.S.H.A. STANDARDS.
5. 5'-0" MIN COVER SHALL BE APPLIED TO WATER MAINS.
6. RIGID POLYURETHANE INSULATION SHALL BE INSTALLED IN PIPE TRENCH FOR SANITARY SEWER WITH LESS THAN 4' COVER.



PIPE TRENCH DETAIL (TYPICAL)

8
C-502

SCALE: NOT TO SCALE



SHALLOW PIPE TRENCH DETAIL

9
C-502

SCALE: NOT TO SCALE

LIGHT POLE FOUNDATIONS				
POLE HEIGHT	DIAM.	DEPTH	REIN. BARS	TIES
<15'	18"	5'-0"	(4)#6	#3@18"
25'	24"	5'-0"	(6)#4	#3@12"
30'	24"	5'-6"	(6)#4	#3@12"
35'	24"	6'-0"	(6)#4	#3@12"
40'	24"	6'-0"	(6)#5	#3@12"
50'	24"	7'-0"	(6)#6	#3@12"

NOTES:

1. CONDUITS AND GROUNDING SHALL BE AS SPECIFIED BY MEP ENGINEER.
2. ALL CONCRETE SHALL BE 3,000 PSI @ 28 DAYS.
3. DESIGNED FOR 90 MPH WIND WITH FIXTURE AREA OF 13 SF.
4. FOUNDATION DIAMETER AND REINFORCING CIRCLE SHALL BE COORDINATED WITH ANCHOR BOLT LIMITS.
5. FOUNDATIONS SHALL BEAR ON UNDISTURBED NATURAL SOIL OR COMPACTED CRUSH STONE.
6. ALL EXCAVATIONS SHALL BE BACKFILLED WITH STRUCTURAL FILL AND COMPACTED TO 95% OF MAXIMUM MATERIAL DENSITY.
7. EXPOSED AREAS OF CONCRETE AND ONE FOOT MIN BELOW FINISHED GRADE SHALL BE FORMED.

EXTERIOR MOUNTED LIGHT WITH CONCRETE BASE

10
C-502

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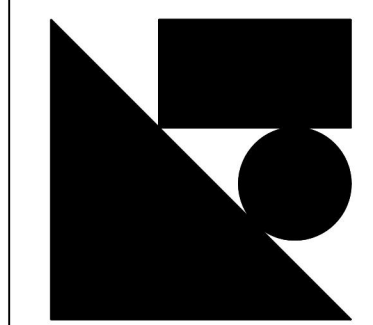
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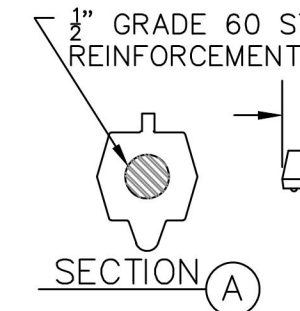
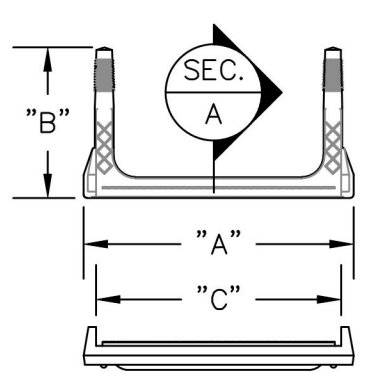


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CHECKED BY: RJT

C-502

2022 -

ACCEPTABLE MANHOLE STEPS						
MANUFACTURER	PATTERN NUMBER	"A" STEP WIDTH	"B" LEG LENGTH	"C" RING CLEAR	"D" EMBEDMENT	"E" RING CLEAR
M.A. INDUSTRIES INC*	PS2-PF	15	7 1/16	9 3/8	14	3 3/8
M.A. INDUSTRIES INC*	PS2-PFS	15	7 1/16	8 1/2	14	3 3/8
* OR EQUIVALENT					5 1/8"	



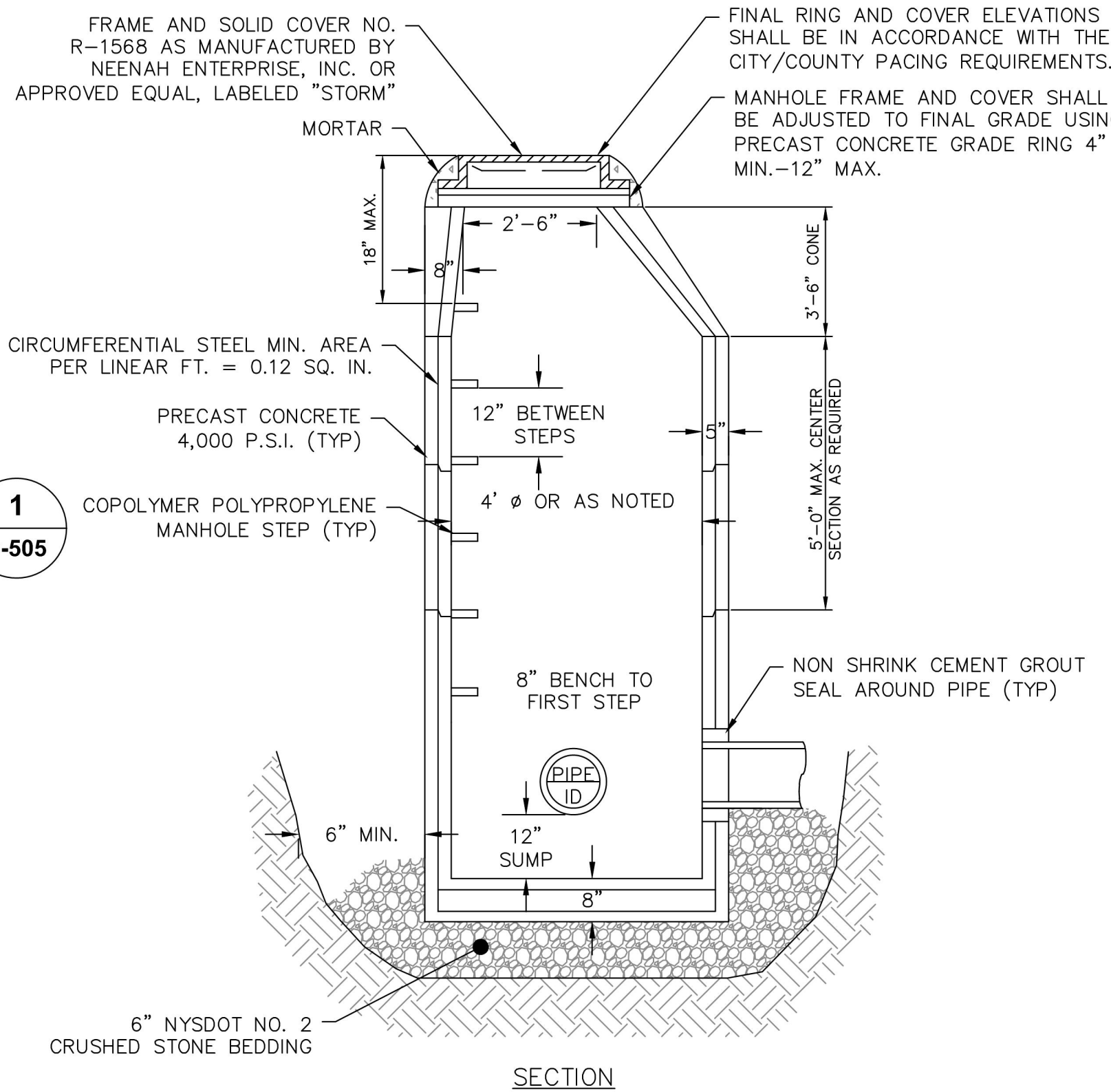
SECTION A

NOTE:

1. MH STEP DESIGN AND INSTALLATION SHALL COMPLY WITH ALL OSHA REGULATIONS.
2. CAST IN PLACE OR PRESS FIT ACCEPTABLE.

COPOLYMER POLYPROPYLENE MH STEP

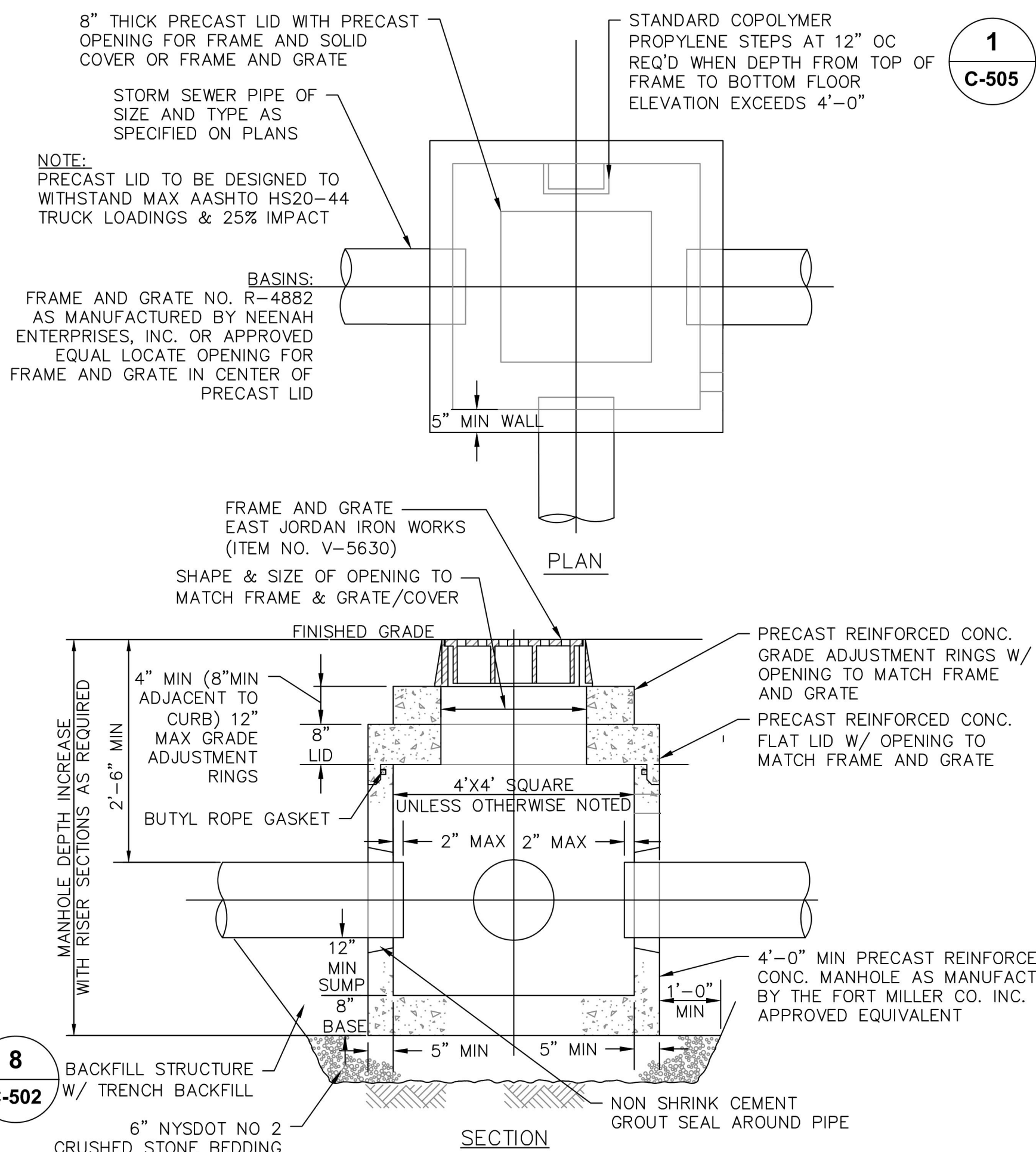
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C-505
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1
C-505

DRAINAGE MANHOLE

SCALE: NOT TO SCALE

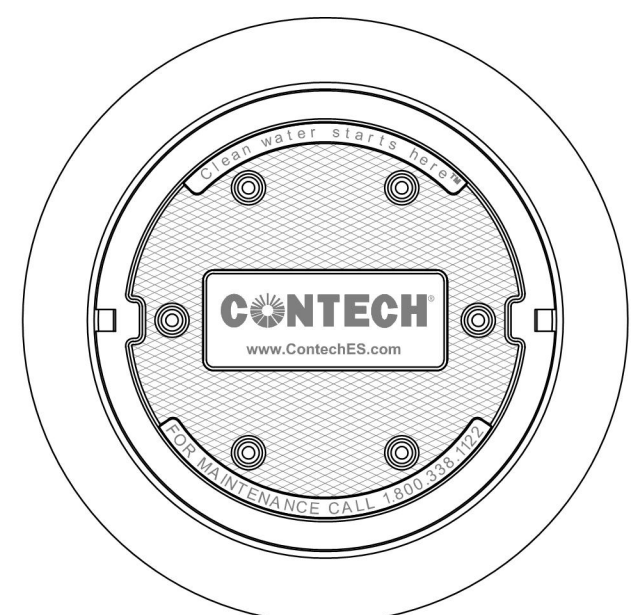


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C-502

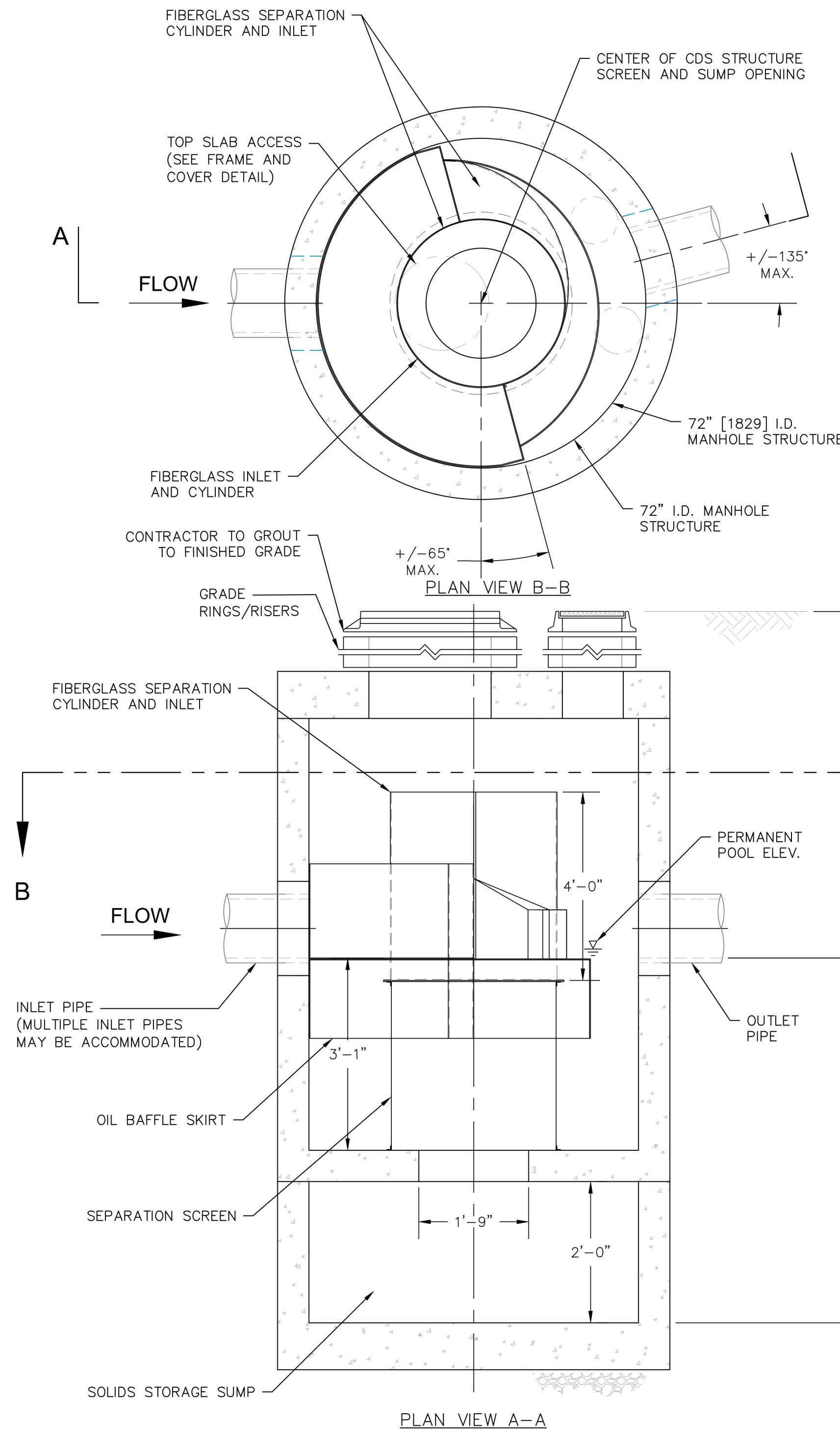
- NOTES:
1. CATCH BASIN SHALL BE PRECAST CONCRETE, DESIGNED FOR HS20-44 VEHICULAR LOADING AND 25% IMPACT.
 2. FRAME AND COVER SHALL BE DESIGNED FOR H20-44 VEHICULAR LOADING & 25% IMPACT.
 3. CONCRETE CATCH BASIN LID CLEAR OPENING DIMENSION MUST MATCH FRAME AND GRATE CLEAR OPENING DIMENSION.
 4. CATCH BASINS HAVING A DEPTH GREATER THAN 48" FROM FINISHED SURFACE TO THE FLOOR OF THE CONCRETE BASE SHALL BE PROVIDED WITH STEPS.
 5. BACKFILL USING TRENCH BACKFILL, COMPACTED IN 6" LIFTS.
 6. SUMPS FOR CATCH BASINS SHALL BE 12".
 7. ECCENTRIC CONE TOP CAN BE USED FOR MANHOLES DEPTH GREATER THAT 7 FEET.
 8. ALL PRECAST CONSTRUCTION IN ACCORDANCE W/ASTM C478.

PRECAST CONCRETE BASIN

3
C-505
SCALE: NOT TO SCALE



FRAME AND COVER



5
C-515

HYDRODYNAMIC SEPERATOR CDS

SCALE: NOT TO SCALE

SITE SPECIFIC DATA REQUIREMENTS			
STRUCTURE ID	CDS-B		
WATER QUALITY FLOW RATE (CFS OR L/s)	3.80		
PEAK FLOW RATE (CFS OR L/s)	3.83		
RETURN PERIOD OF PEAK FLOW (YRS)	100		
SCREEN APERTURE (2400)	-		
PIPE DATA	1.6	MATERIAL	DIAMETER
INLET PIPE 1		HDPE	16"
INLET PIPE 2		HDPE	16"
OUTLET PIPE		HDPE	16"
RIM ELEVATION			7'
ANTI-FLOTATION BALLAST	WIDTH	HEIGHT	
NOTES/SPECIAL REQUIREMENTS:			
* PER ENGINEER OF RECORD			

- GENERAL NOTES:
1. DESIGN IS BASED OFF CDS3035-6 CONTECH CDS UNIT.
 2. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
 3. DIMENSIONS MARKED WITH () ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
 4. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.contechES.com
 5. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
 6. STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET HS20 (AASHTO M 306) AND BE CAST WITH THE CONTECH LOGO.
 7. IF REQUIRED, PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.
 8. AS BUILT PLANS OF THE INSTALLED UNIT MUST BE COMPLETED AND ADDED TO THE OPERATING AND MAINTENANCE MANUAL.

- INSTALLATION NOTES:
- A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS
 - B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
 - C. CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
 - D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
 - E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.



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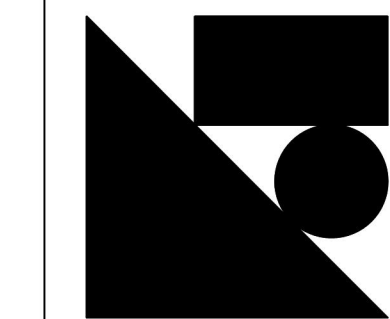
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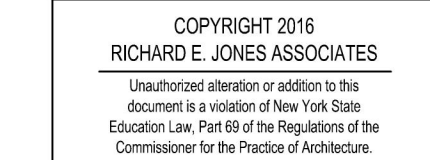
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2022

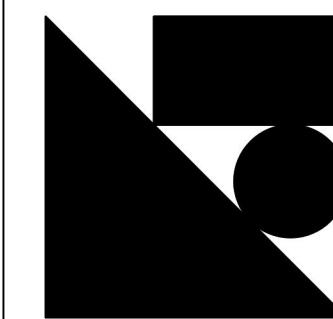
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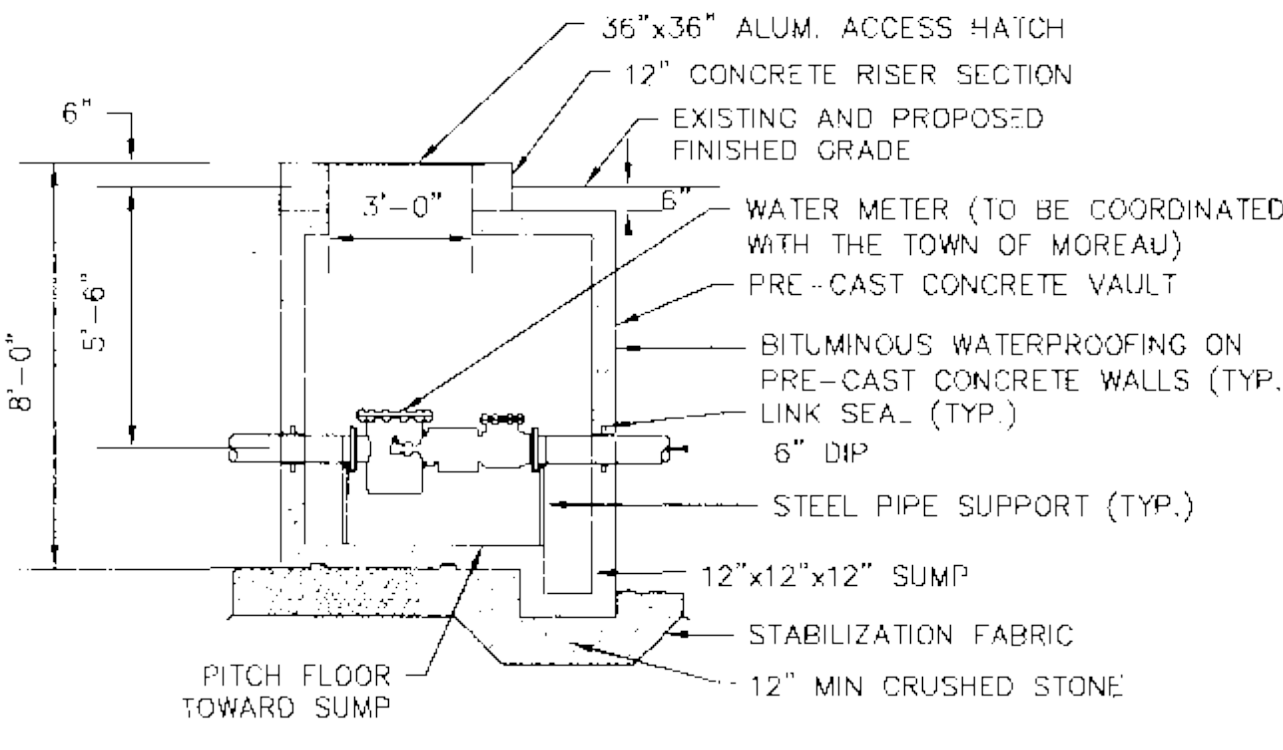
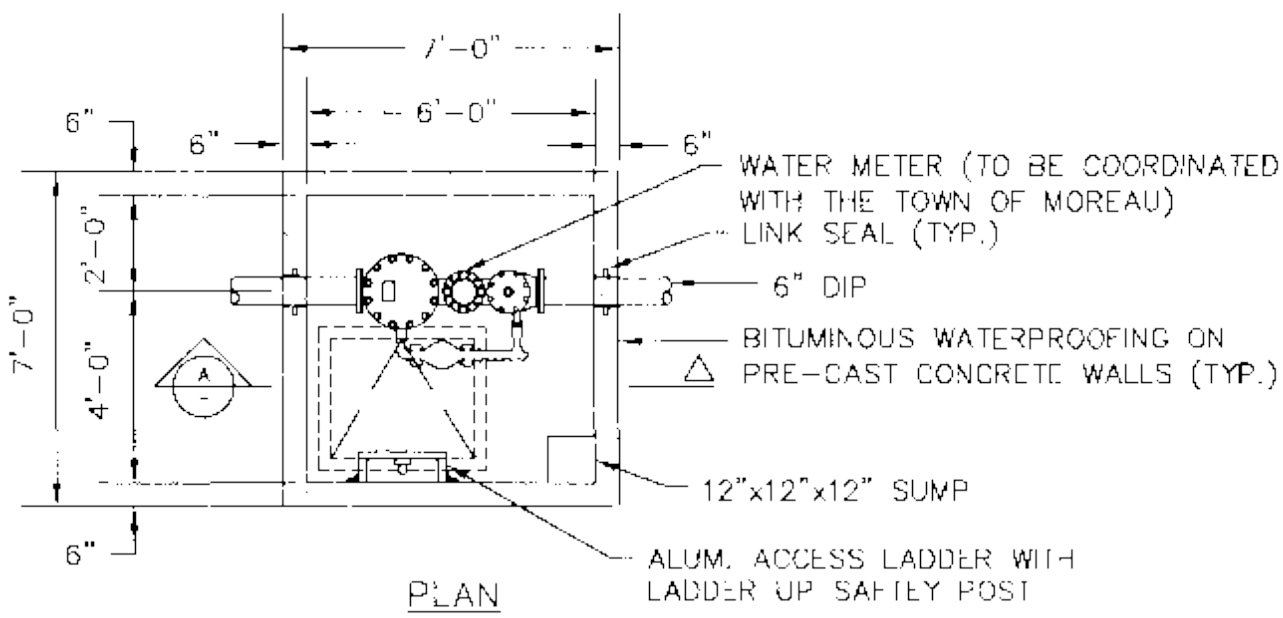
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2202



1. SYSTEM WAS DESIGNED TO HANDLE A 100-YEAR STORM EVENT AND ALLOW INFILTRATION OF ALL RUNOFF. STORMWATER RUNOFF FROM THE BUILDINGS ROOF AND SURROUNDING AREA WILL BE COLLECTED IN A CLOSED STORMWATER SYSTEM ON-SITE AND ALLOW THE WATER TO INFILTRATE INTO THE GROUND THROUGH THE USE OF AN UNDERGROUND INFILTRATION CHAMBER SYSTEM. THE INFILTRATION SYSTEM HAS BEEN SIZED TO STORE THE 100-YEAR STORM EVENT.
2. THE PROJECT SITE INCLUDES HYDROLOGIC TYPE A SOILS. THE MINIMUM INFILTRATION RATE OF 30 INCHES/HOUR WAS USED IN DESIGN OF THE SYSTEM, BASED ON FIELD TESTING COMPLETED THAT RECORDED AN INFILTRATION RATE OF >60" INCHES/HOUR.
3. STORMTECH SC-740 INFILTRATION CHAMBERS WERE USED AS THE DESIGN BASIS AND SHOULD BE INSTALLED PER MANUFACTURERS SPECIFICATIONS. DESIGN BASIS INCLUDED 110 CHAMBERS WITH END CAPS (10 ROWS OF 11 CHAMBERS) AND 6" FOUNDATION STONE LAYER FOR A TOTAL STORAGE VOLUME OF 9,007 CF. THE CHAMBER SYSTEM WILL HAVE 100% OF THE WQV PRETREATED THROUGH THE USE OF HYDRODYNAMIC SEPARATORS.

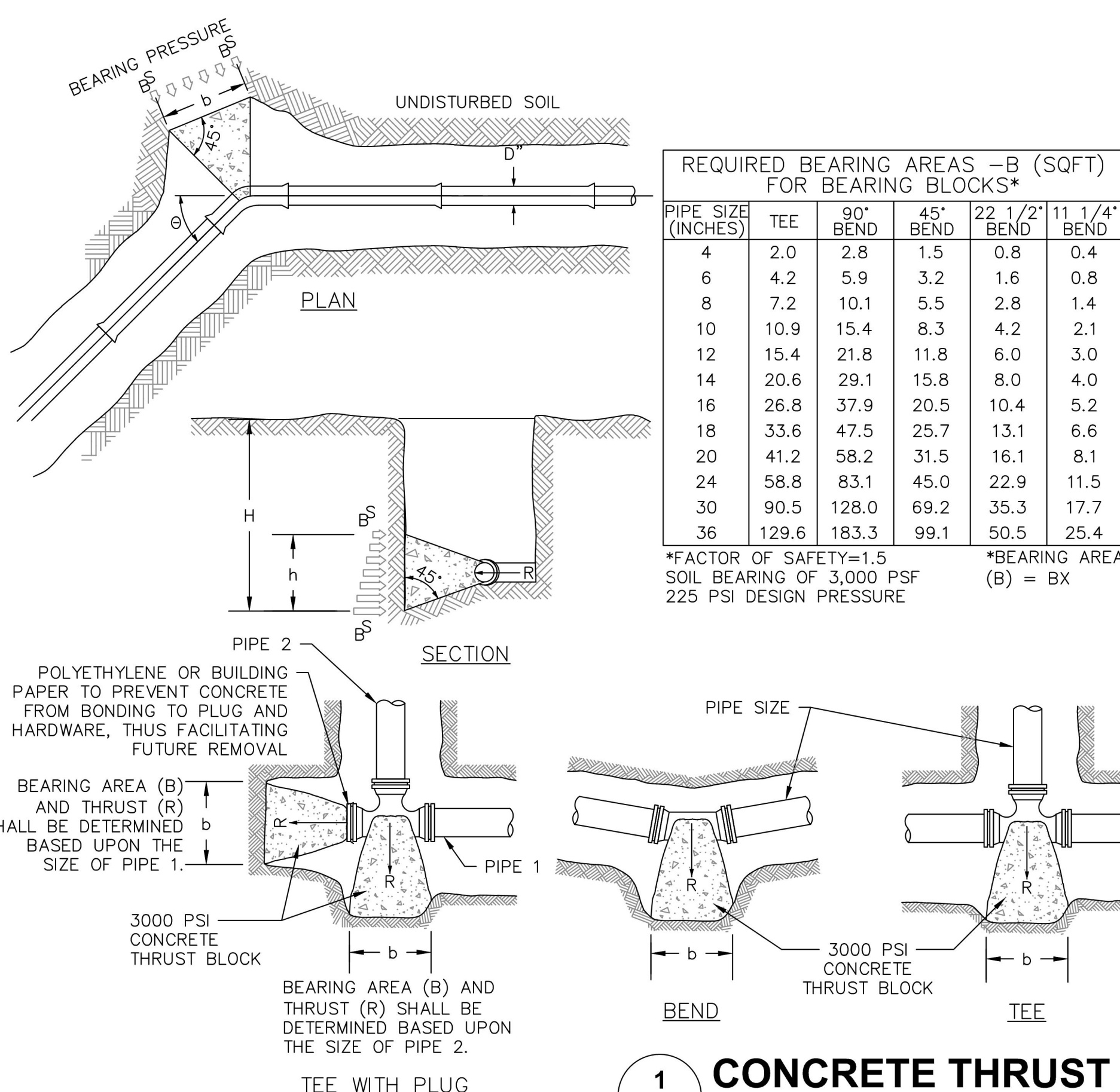
THAT RECORDED AN INFILTRATION



- NOTES:**
1. PROVIDE SUMP FOR DRAINING OF VAULT. ACCESS LADDER SHALL COMPLY WITH OSHA REQUIREMENTS.
 2. METER VAULT INSTALLATION TO BE COORDINATED WITH AND CONFORM TO STANDARDS OF THE TOWN OF MOREAU.

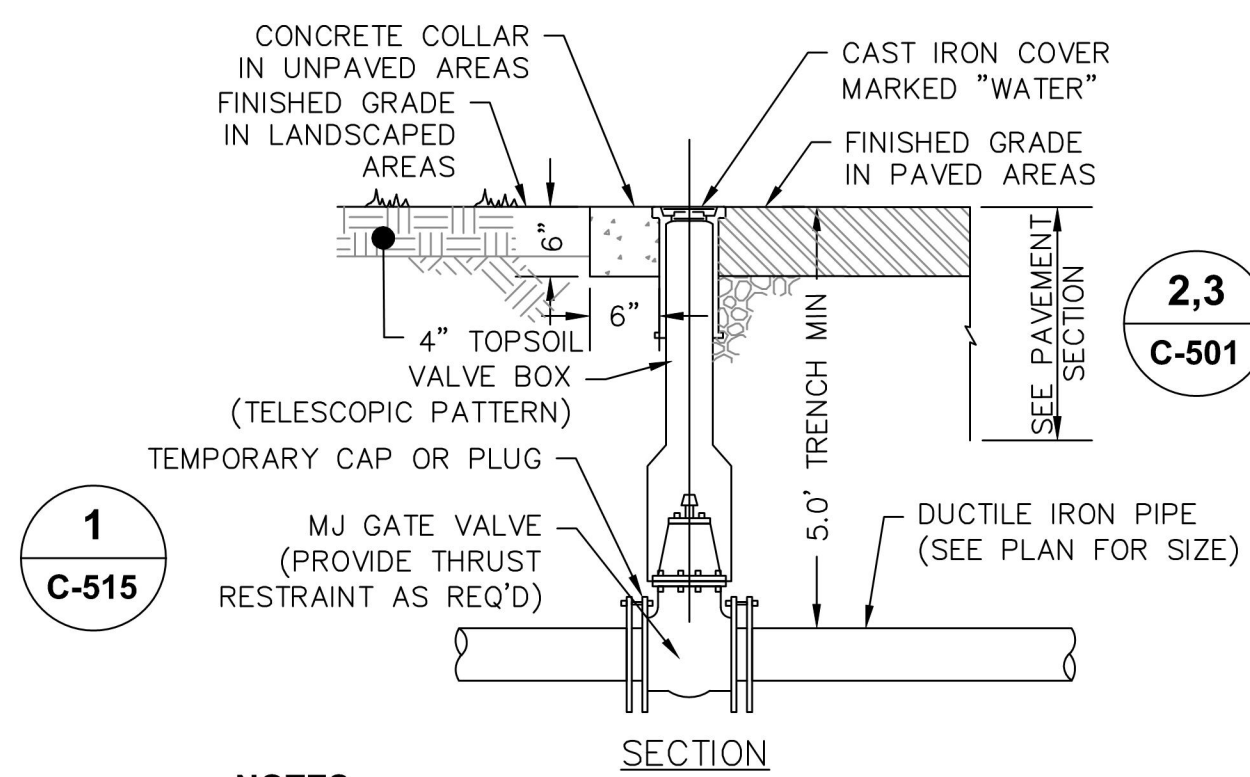
6 TYPICAL WATER METER VAULT

C-515 SCALE: NOT TO SCALE



1 CONCRETE THRUST BLOCK DETAILS

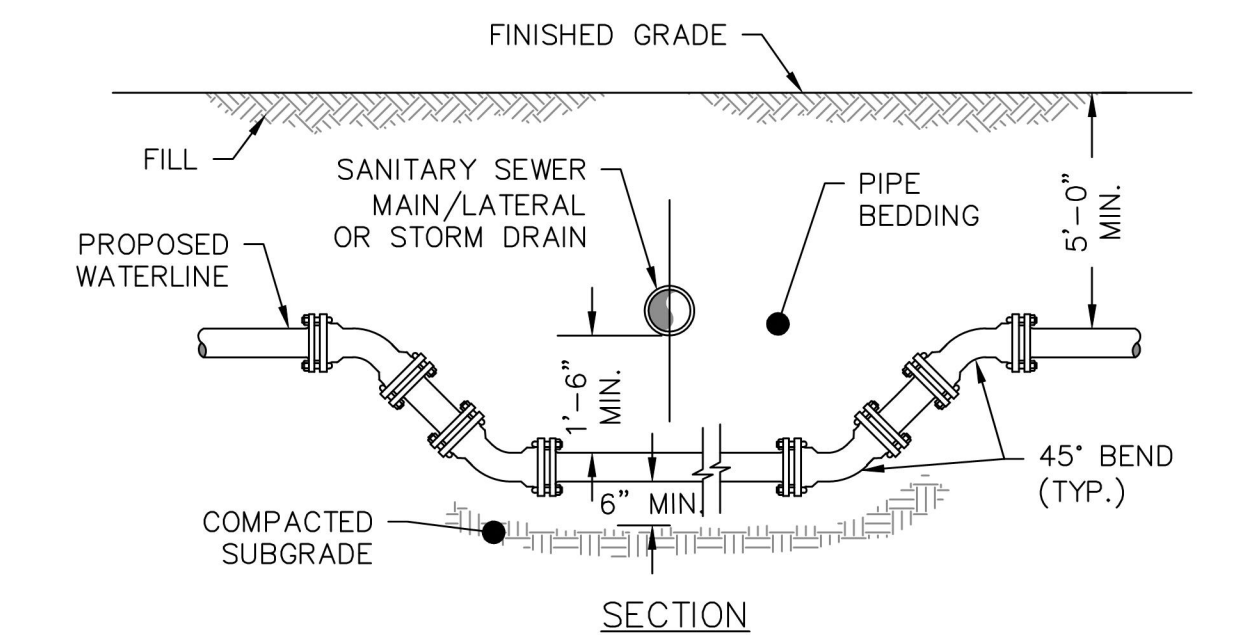
C-515 SCALE: NOT TO SCALE



- NOTES:**
1. GATE VALVE & VALVE BOX SHALL BE IN ACCORDANCE WITH TOWN OF EAST GREENBUSH STANDARDS.
 2. SEE DETAIL 1/C-505 FOR TRENCHING DETAILS.

2 DUCTILE IRON SERVICE PIPE AND VALVE

C-515 SCALE: NOT TO SCALE



- NOTES:**
1. WHEN THE ELEVATION OF THE SEWER CAN NOT BE VARIED TO MEET THE ABOVE REQUIREMENTS, THE WATER MAIN SHALL BE RELOCATED TO PROVIDE THIS REQUIRED SEPARATION.
 2. WHEN IT IS IMPOSSIBLE TO OBTAIN VERTICAL SEPARATION AS INDICATED ABOVE, BOTH THE WATER MAIN AND THE SEWER MAIN SHALL BE CONSTRUCTED OF MECHANICAL JOINT DUCTILE IRON PIPE OR PVC WATER WORKS GRADE PRESSURE PIPE FOR 10' EACH SIDE OF CROSSING AND SHALL BE PRESSURE TESTED TO 150psi TO ASSURE WATER TIGHTNESS.

4 WATER MAIN OFFSET DETAIL

C-515 SCALE: NOT TO SCALE

NOTES:

1. CONCRETE SHALL NOT TO OVERLAP ANY JOINT.
2. THRUST BLOCKS SHALL BE CONFIGURED IN A MANNER THAT DOES NOT INTERFERE WITH REMOVAL OR INSTALLATION OF ANY JOINTING COMPONENTS.
3. FOR REDUCERS, USE MECHANICAL JOINT FITTINGS WITH RETAINER GLANDS.
4. BEARING SURFACE SHALL, WHERE POSSIBLE, BE PLACED AGAINST UNDISTURBED SOIL. WHERE THAT IS NOT POSSIBLE, THE FILL BETWEEN THE BEARING SURFACE AND UNDISTURBED SOIL MUST BE COMPACTED TO AT LEAST 90% STANDARD PROCTOR DENSITY.
5. BLOCK HEIGHT (H) SHALL BE EQUAL TO OR LESS THAN ONE-HALF THE TOTAL DEPTH TO THE BOTTOM OF THE BLOCK, (HT), BUT NOT LESS THAN THE PIPE DIAMETER (D).
6. BLOCK HEIGHT (H) SHALL BE ESTABLISHED SUCH THAT THE CALCULATED BLOCK WIDTH (b) VARIES BETWEEN ONE AND TWO TIMES THE HEIGHT.
7. VALUES FOR TEES APPLY TO TEES, END PLUGS, CAPS, AND TAPPING SLEEVES.
8. REQUIRED BEARING AREAS ARE DEVELOPED TO RESIST THRUSTS RESULTING FROM 150 PSI WORKING PRESSURE PLUS 50%(75 PSI) SURGE ALLOWANCE RESULTING IN 225 PSI TOTAL INTERNAL PRESSURE. REQUIRED BEARING AREAS ARE BASED UPON AN ALLOWABLE SOIL BEARING CAPACITY OF 3,000 POUNDS PER SQUARE FOOT. IN RESPONSE TO OTHER SOIL CONDITIONS ENCOUNTERED, BEARING AREAS REQUIRED MAY BE MODIFIED BY THE ENGINEER.

PIPE SIZE (INCHES)	TEE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
4	2.0	2.8	1.5	0.8	0.4
6	4.2	5.9	3.2	1.6	0.8
8	7.2	10.1	5.5	2.8	1.4
10	10.9	15.4	8.3	4.2	2.1
12	15.4	21.8	11.8	6.0	3.0
14	20.6	29.1	15.8	8.0	4.0
16	26.8	37.9	20.5	10.4	5.2
18	33.6	47.5	25.7	13.1	6.6
20	41.2	58.2	31.5	16.1	8.1
24	58.8	83.1	45.0	22.9	11.5
30	90.5	128.0	69.2	35.3	17.7
36	129.6	183.3	99.1	50.5	25.4

- *FACTOR OF SAFETY=1.5
SOIL BEARING OF 3,000 PSF
225 PSI DESIGN PRESSURE
- *BEARING AREA (B) = BX
- BEARING STRENGTH
Sq. (LB/SQ. FT.)
- | | |
|------------|-------|
| MUCK | 0 |
| SOFT CLAY | 1,000 |
| SILT | 1,500 |
| SANDY SILT | 3,000 |
| SAND | 4,000 |
| SANDY CLAY | 6,000 |
| HARD CLAY | 9,000 |
9. IN MUCK, PEAT, OR RECENTLY PLACED FILL, ALL THRUSTS SHALL BE RESISTED BY PILES OR THE RODS TO SOLID FOUNDATIONS, OR BY REMOVAL OF SUCH UNSTABLE MATERIAL AND REPLACEMENT WITH BALLAST OF SUFFICIENT STABILITY TO RESIST THE THRUSTS; ALL AS REQUIRED BY THE ENGINEER.
10. CONCRETE THRUST BLOCK SHALL BE USED ONLY AS ALLOWED BY THE PROJECT PLANS AND/OR SPECIFICATION. (IF RESTRAINED JOINT PIPE IS TO BE USED SEE SCHEDULE OF JOINT RESTRAINED PIPE.)

GENERAL WATER NOTES:

1. USE CONCRETE THRUST BLOCKS OR RESTRAINED JOINT PIPE AND FITTINGS FOR PROPER RESTRAINT OF WATER MAIN PIPE.
2. ALL WATER LINES SHALL BE CEMENT LINED DUCTILE IRON PIPE, CLASS 52, UNLESS OTHERWISE SPECIFIED BY OR APPROVED BY THE ENGINEER.
3. THE WATER LINE MAY BE FLEXED WITHIN PIPE SPECIFICATIONS OR LAID DEEPER IN AREAS WHERE CROSSINGS WITH THE SANITARY LINE OCCUR, TO ACHIEVE THE REQUIRED 1.5' VERTICAL SEPARATION DISTANCE. (SEE WATER MAIN OFFSET DETAIL FOR FURTHER INFORMATION).
4. ALL NEW WATER MAIN INSTALLATIONS SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH AWWA STANDARD C 600 (LATEST REVISION) AT A PRESSURE OF 150 PSI, OR 1.5 TIMES (AS REFERENCED ABOVE) THE WORKING PRESSURE OF THE SYSTEM AS A MINIMUM. ALLOWABLE LEAKAGE OF THIS TEST SHALL BE AS DEFINED IN SECTION 4.2 OF SAID AWWA SPECIFICATION.
5. APPROVED AND TESTED WATER MAIN SHALL BE DISINFECTED PER AWWA SECTION C 651 (AS REFERENCED ABOVE), AS DIRECTED BY ENGINEER.
6. THE WATER MAIN IS TO BE INSTALLED AT A CONTINUOUS GRADE WITH NO ABRUPT HIGH OR LOW POINTS.

TESTING WATER MAINS:

1. AFTER TRENCH HAS BEEN BACKFILLED, HYDROSTATIC ACCEPTANCE TESTS, CONSISTING OF A PRESSURE TEST AND A LEAKAGE TEST, SHALL BE PERFORMED ON ALL SECTIONS OF WATER MAINS INSTALLED. LEAKAGE TEST SHALL BE CONDUCTED CONCURRENTLY WITH PRESSURE TEST. TEST SECTION SHALL BE LIMITED TO ABOUT 2000 FT (MAX.) UNLESS OTHERWISE APPROVED BY THE ENGINEER.
2. AFTER ALL TESTS AND INSPECTIONS HAVE BEEN PERFORMED EVIDENCE OF COMPLIANCE SHALL BE FORWARDED TO OWNER/ENGINEER AND THE MUNICIPALITY PRIOR TO ACCEPTANCE.
3. ALL WATER FOR TESTS SHALL BE FURNISHED AND DISPOSED OF BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. SOURCE AND/OR QUALITY OF WATER WHICH THE CONTRACTOR PROPOSES TO USE IN TESTING LINES SHALL BE ACCEPTABLE TO THE ENGINEER.
4. HYDROSTATIC PRESUMPTIVE TESTS MAY BE PERFORMED WHEN SYSTEM IS PARTIALLY BACKFILLED TO SIMPLY CHECK WORK, BUT ACCEPTANCE OF SYSTEM SHALL BE BASED ON HYDROSTATIC TESTS RUN ON FINISHED SYSTEM AFTER IT HAS BEEN COMPLETELY BACKFILLED. ALL HYDROSTATIC TESTS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 4 OF AWWA STANDARD C 600 OR LATER ADDITION, AS MODIFIED HEREIN.
5. FOR THE PRESSURE TEST, SYSTEM SHALL BE PRESSURIZED AND MAINTAINED AT A MINIMUM OF 150 POUNDS PER SQUARE INCH, OR 1.5 TIMES THE WORKING PRESSURE, WHICHEVER IS GREATER, BASED ON THE ELEVATION OF THE LOWEST POINT IN THE SECTION BEING TESTED AND CORRECTED TO THE ELEVATION OF THE GAUGE. PROVISIONS SHALL BE MADE TO RELIEVE AIR TRAPPED AT HIGH POINTS IN THE SYSTEM THROUGH ADJACENT HYDRANTS OR THROUGH TAPS AND CORPORATION STOPS INSTALLED FOR THIS PURPOSE BY THE CONTRACTOR. AFTER SAID PRESSURE HAS BEEN MAINTAINED SUCCESSFULLY, WITH FURTHER PUMPING AS REQUIRED, FOR A PERIOD OF AT LEAST TWO HOURS, THE SECTION UNDER TEST SHALL BE CONSIDERED TO HAVE PASSED THE PRESSURE TEST.
6. LEAKAGE TEST SHALL BE PERFORMED CONCURRENTLY USING A MINIMUM TEST PRESSURE OF 150 LBS/SQUARE INCH, OR 1.5 TIMES THE WORKING PRESSURE, WHICHEVER IS GREATER, BASED ON THE ELEVATION OF THE LOWEST POINT IN THE SECTION UNDER TEST AND CORRECTED TO ELEVATION OF THE GAUGE. LEAKAGE TEST DURATION SHALL BE A MINIMUM OF 2 HOURS AFTER LEAKAGE RATE HAS STABILIZED.
7. MAXIMUM ALLOWABLE LEAKAGE SHALL BE AS SHOWN IN THE FOLLOWING TABLE: ALLOWABLE LEAKAGE PER 1000 FT (305M) OF PIPELINE (GPH)

AVG. TEST PRESSURE PSI	4	6	8	10	12	14	16
450	0.57	0.86	1.15	1.43	1.72	2.01	2.29
400	0.54	0.81	1.08	1.35	1.62	1.89	2.16
350	0.51	0.76	1.01	1.26	1.52	1.77	2.02
300	0.47	0.70	0.94	1.17	1.40	1.64	1.87
275	0.45	0.67	0.90	1.12	1.34	1.57	1.79
250	0.43	0.64	0.85	1.07	1.28	1.50	1.71
225	0.41	0.61	0.81	1.01	1.22	1.42	1.62
200	0.38	0.57	0.76	0.96	1.15	1.34	1.53
175	0.36	0.54	0.72	0.89	1.07	1.25	1.43
150	0.33	0.50	0.66	0.83	0.99	1.16	1.32
125	0.30	0.45	0.60	0.76	0.91	1.06	1.21
100	0.27	0.41	0.54	0.68	0.81	0.95	1.08

8. IF LEAKAGE IN SYSTEM EXCEEDS THE SPECIFIED AMOUNT, THE CONTRACTOR SHALL, AT NO ADDED COST TO THE OWNER, LOCATE, REPAIR, AND/OR REPLACE DEFECT(S) AND RE-TEST PIPING SYSTEM.

DISINFECTION OF POTABLE WATER SERVICE MAINS:

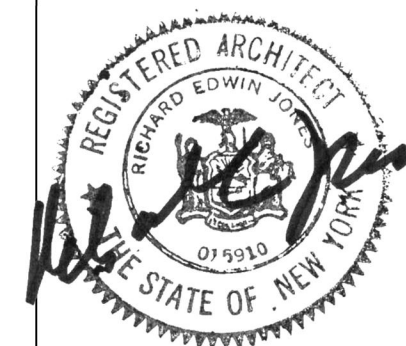
1. DISINFECTION WILL BE ACCOMPLISHED AFTER PIPE HAS PASSED ANY LEAKAGE TESTS.
2. THE MUNICIPALITY AND THE ENGINEER SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO THE START OF PRESSURE TESTING, LEAKAGE TESTING, AND DISINFECTION.
3. DISINFECTION WILL BE PERFORMED IN ACCORDANCE WITH AWWA STANDARD C 651-14 OR LATER ADDITION, (EXCLUDING SECTION 5.1 COVERING THE TABLET METHOD).
4. CHLORINE-WATER SOLUTION IS PREPARED BY ADDING SODIUM HYPOCHLORITE TO WATER IN ACCORDANCE WITH THE FOLLOWING TABLE (VERIFY AGAINST MUNICIPLE REQUIREMENTS): CHLORINE REQUIRED TO PRODUCE 25 MG/L CONCENTRATION IN 100 FT. OF PIPE BY DIAMETER

PIPE SIZE IN.	100 PERCENT CHLORINE LB.	1 PERCENT CHLORINE SOLUTIONS GAL.
6	0.030	0.36
8	0.054	0.65
12	0.120	1.44

- NOTE: 1% SOLUTIONS REQUIRE 1 POUND OF SODIUM HYPOCHLORITE IN 8 GAL OF WATER
5. PRODUCT DETERIORATION MUST BE CONSIDERED IN COMPUTING THE QUANTITY OF SODIUM HYPOCHLORITE REQUIRED FOR THE DESIRED CONCENTRATION.
 6. CHLORINE-WATER SOLUTION SHALL BE INTRODUCED INTO THE WATER MAIN WITH A GASOLINE OR ELECTRICALLY POWERED CHEMICAL FEED PUMP DESIGNED FOR FEEDING CHLORINE SOLUTIONS. FEED LINES SHALL BE OF SUCH MATERIAL AND STRENGTH TO PERMIT THEM TO WITHSTAND SAFELY THE MAXIMUM PRESSURE THAT MAY BE CREATED BY PUMP. ALL CONNECTIONS SHALL BE CHECKED FOR TIGHTNESS BEFORE HYPOCHLORITE SOLUTION IS APPLIED TO MAIN.
 7. THE CONTRACTOR SHALL FURNISH AND INSTALL A CORPORATION STOP JUST DOWNSTREAM FROM THE NEWLY INSTALLED GATE VALVE OR AS OTHERWISE SHOWN ON DRAWINGS OR APPROVED BY THE ENGINEER.
 8. GENERALLY, THE FOLLOWING PROCEDURE SHALL BE USED TO DISINFECT THE NEW MAIN, THE CONTRACTOR SHALL HOWEVER, REVIEW THEIR PROPOSED PROCEDURES WITH THE ENGINEER AT LEAST 48 HOURS PRIOR TO START OF DISINFECTION. ALL DISINFECTION PROCEDURES MUST BE APPROVED BY THE ENGINEER BEFORE DISINFECTION STARTS.

- A. ALL GATE VALVES AND HYDRANTS MUST BE CLOSED. THE NEW MAIN SHOULD ALREADY BE FULL OF WATER FORM THE HYDROSTATIC TESTS; IF NOT, IT SHALL BE FILLED.
- B. MIX CHLORINE-WATER SOLUTION IN 55 GALLON DRUMS; CONNECT FEED LINE TO PUMP AND NEW MAIN.
- C. OPEN GATE VALVE ON THE HYDRANT LEAD OF END HYDRANT; THEN OPEN HYDRANT FULLY. (NOTE: HYDRANT MUST ALWAYS BE EITHER FULLY OPENED OR FULLY CLOSED. THE HYDRANT FLOW MAY BE CONTROLLED BY THROTTLING THE GATE VALVE ON THE HYDRANT LEAD).
- D. START PUMPING CHLORINE-WATER SOLUTION INTO WATER MAIN; THEN OPEN UPSTREAM GATE VALVE SLOWLY UNTIL FLOW FROM HYDRANT IS PROPORTIONATE TO THE AMOUNT OF CHLORINE-WATER SOLUTION BEING PUMPED (30 PARTS WATER TO 1 PART CHLORINE-WATER SOLUTION). IF A WATER METER IS NOT AVAILABLE, DISCHARGE RATE MAY BE DETERMINED BY USING EITHER A PITOT GAUGE IN THE DISCHARGE OR BY MEASURING THE TIME TO FILL A CONTAINER OF KNOWN VOLUME (SUCH AS A 55 GAL. BARREL). THE PUMPING RATE CAN BE DETERMINED BY MEASURING THE DROP IN LIQUID LEVEL IN A GIVEN LENGTH OF TIME. (NOTE: A STANDARD 55 GALLON STEEL BARREL CONTAINS 19.75 GAL/FT OF DEPTH OR 1.64 GAL/IN OF DEPTH).
- E. AFTER HYDRANT FLOW AND PUMPING RATE HAVE BEEN ADJUSTED, MAINTAIN A CONSTANT FLOW SO THAT CHLORINE CONCENTRATION IN THE MAIN IS MAINTAINED AT A MINIMUM OF 25 PPM.
- F. PERIODICALLY CHECK HYDRANT DISCHARGE FOR CHLORINE CONCENTRATION BY USING A FIELD CHLORINE RESIDUAL TEST KIT. MAINTAIN HYDRANT DISCHARGE AND PUMPING RATE UNTIL THE MINIMUM CHLORINE CONCENTRATION OF 25 PPM HAS BEEN ACHIEVED THROUGHOUT THE ENTIRE MAIN DISINFECTED.
- G. AFTER THE REQUIRED CONCENTRATION HAS BEEN ACHIEVED, ALL VALVES AND HYDRANTS ON THE MAIN LINE BETWEEN THE UPSTREAM GATE VALVE AND THE DISCHARGE HYDRANT SHALL BE OPERATED IN ORDER TO DISINFECT THE INTERNAL APPURTENANCES. DO NOT OPERATE ANY GATE VALVE THAT IS LOCATED ON A CONNECTION TO AN EXISTING WATER MAIN THAT IS IN SERVICE.

9. AFTER THE CONTRACTOR HAS TAKEN A WATER SAMPLE AND VERIFIED THE MINIMUM 25 PPM CHLORINE CONCENTRATION, UNDER WITNESS BY THE ENGINEER, THE CONTRACTOR SHALL RETAIN THE CHLORINATED WATER IN THE MAIN BY THE FOLLOWING METHOD:
 - A. FIRST, CLOSE THE UPSTREAM GATE VALVE.
 - B. SECOND, CLOSE THE DISCHARGE HYDRANT.
 - C. THIRD, SHUT OFF THE PUMP.
10. CHLORINATED WATER SHALL REMAIN IN THE MAIN FOR A MINIMUM OF 24 HOURS.
11. IF THE CHLORINE RESIDUAL IS LESS THAN 10 PPM AT THE END OF THE 24 HOURS, REPEAT SYSTEM TREATMENT.
12. ANY SECTION OF PIPE, VALVES OR FITTINGS, INCLUDING TAPPING SLEEVES AND VALVES WHICH ARE INSTALLED OUTSIDE THE LIMITS OF THE SYSTEM SUBJECTED TO THE CHLORINATION PROCEDURES SPECIFIED ABOVE, SHALL BE SPRAYED OR SWABBED WITH A 1% HYPOCHLORITE SOLUTION PRIOR TO INSTALLATION.
13. AFTER THE CONTRACTOR HAS TAKEN A WATER SAMPLE AND VERIFIED THE MINIMUM 10 PPM CHLORINE RESIDUAL, UNDER WITNESS BY THE ENGINEER, CONTRACTOR SHALL THOROUGHLY FLUSH CHLORINATED WATER FROM THE MAIN BY THE FOLLOWING METHOD:
 - A. FIRST, OPEN THE DISCHARGE HYDRANT.
 - B. SECOND, OPEN THE UPSTREAM GATE VALVE.
 - C. THIRD, OPEN ANY HYDRANTS ON THE MAIN LINE TO REMOVE ALL CHLORINATED WATER FROM THE HYDRANT LEADS.
14. FLUSH THE MAIN WITH POTABLE WATER IN SUCH A MANNER THAT DOES NOT ADVERSELY AFFECT FISH, PLANT, OR ANIMAL LIFE.
15. THE QUANTITY AND LOCATION OF WATER SAMPLES TO BE TAKEN SHALL BE DETERMINED BY THE ENGINEER.
16. WATER SAMPLES SHALL BE TAKEN BY THE CONTRACTOR IN STERILIZED BOTTLES.
17. ANALYZE WATER SAMPLES IN ACCORDANCE WITH STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER, 14TH EDITION, PUBLISHED BY AMERICAN WATER WORKS ASSN., 6666 WEST QUINCY AVE., DENVER, CO 80235.
18. IF A BACTERIOLOGICAL TEST PROVES THE WATER QUALITY TO BE UNACCEPTABLE; REPEAT SYSTEM TREATMENT.
19. IF A BACTERIOLOGICAL TEST PROVES WATER TO BE ACCEPTABLE; REMOVE FEED LINE AND CORPORATION STOP. CORPORATION STOP WILL BE REPLACED WITH A THREADED BRASS PLUG UNLESS OTHERWISE DIRECTED BY ENGINEER.
20. SAMPLES MUST BE BACTERIOLOGICALLY SAFE BEFORE WATER MAIN IS PLACED IN SERVICE.



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REVISIONS	DESCRIPTION	DATE

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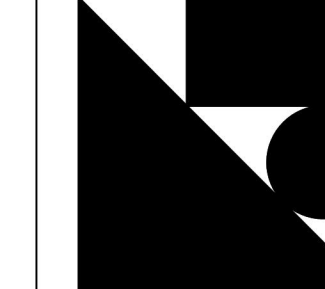
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WATER DETAILS

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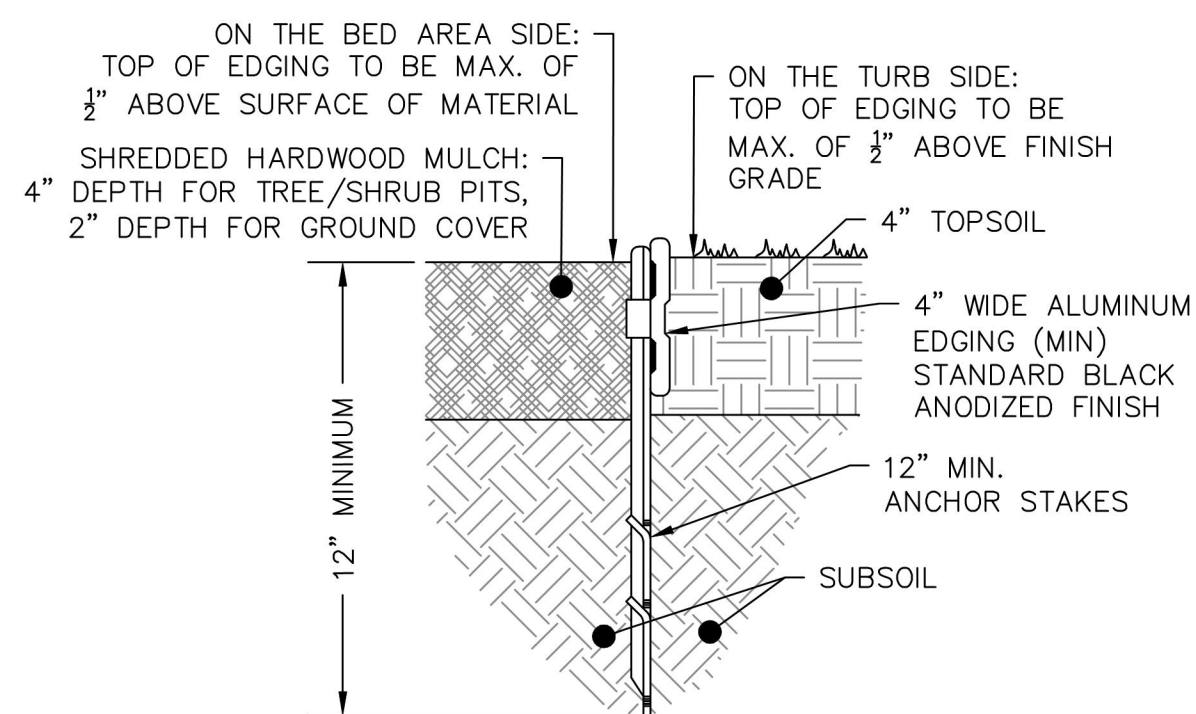
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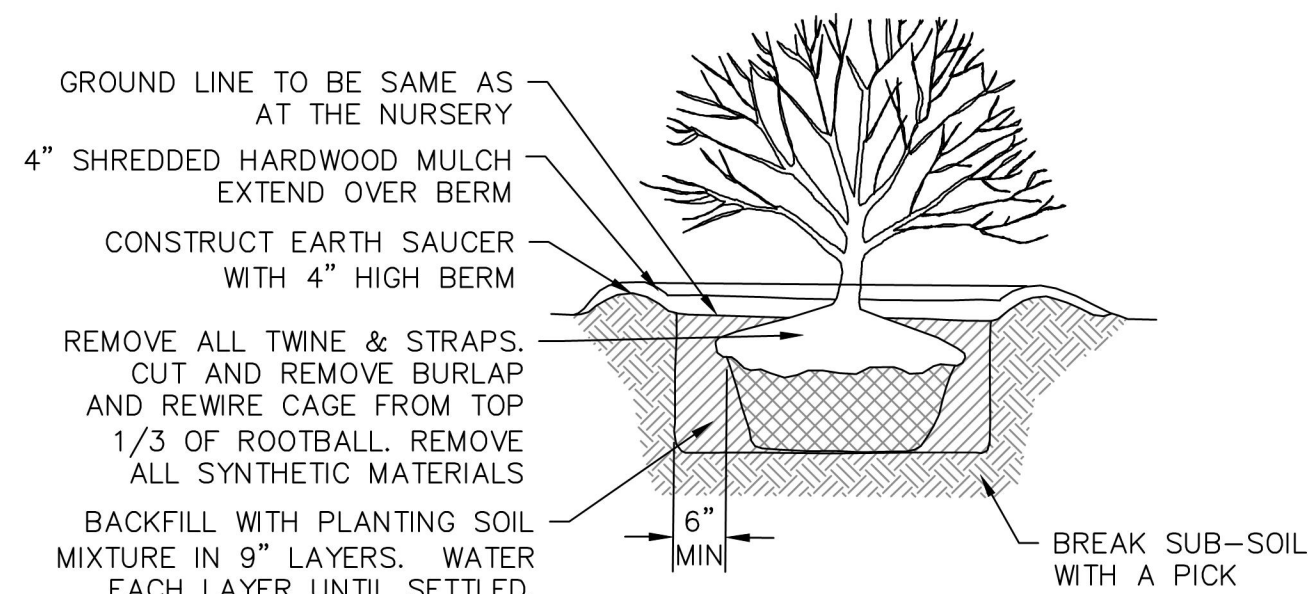
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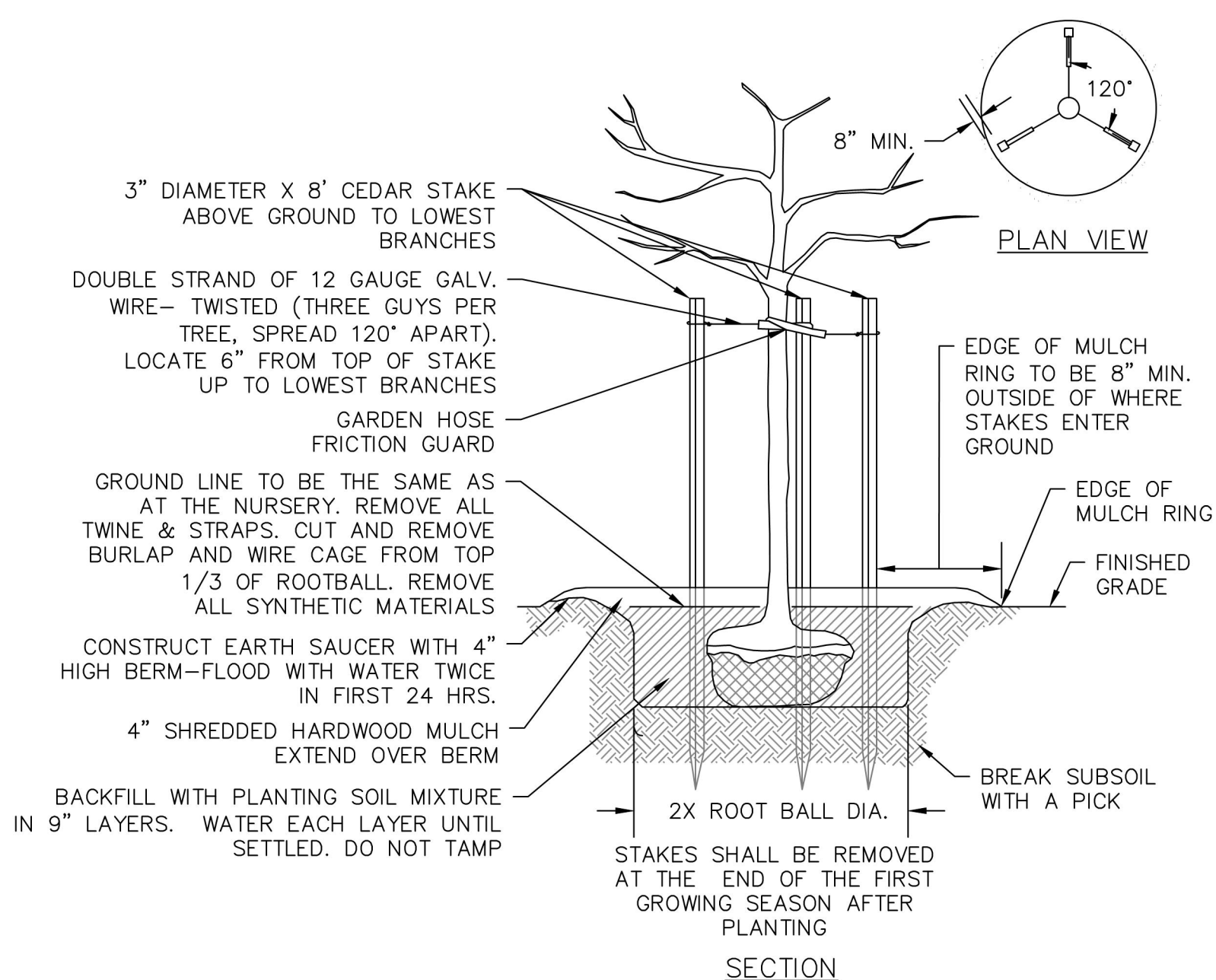
1. 16'-0" SECTIONS TO INCLUDE FIVE (5) 12" STAKES. 8'-0" SECTIONS TO INCLUDE THREE (3) 12" STAKES.
2. COMPACT GRADES ADJACENT TO EDGING TO MINIMIZE SETTLING.
3. CORNERS - CUT BASE OF EDGING HALF WAY TO FORM A CONTINUOUS CORNER.



NOTE:

SPRAY WITH ANTIDESICCANT IN ACCORDANCE WITH MFG.'S
RECOMMENDATIONS IF FOLIAGE IS PRESENT.

SHRUB PLANTING DETAIL FOR ALL SHRUBS BALLED AND BURLAPPED



NOTES

1. TREES SHALL BE BALLED AND BURLAPPED

PLANTING AND GUYING FOR DECIDUOUS TREES SMALLER THAN 3" CALIPER



1. THE LANDSCAPE CONTRACTOR SHALL CAREFULLY COORDINATE CONSTRUCTION ACTIVITIES WITH THAT OF THE EARTHWORK CONTRACTOR AND OTHER SITE DEVELOPMENT.
2. THE CONTRACTOR SHALL VERIFY DRAWING DIMENSIONS WITH ACTUAL FIELD CONDITIONS AND INSPECT RELATED WORK AND ADJACENT SURFACES. THE CONTRACTOR SHALL VERIFY THE ACCURACY OF ALL FINISH GRADES WITHIN THE WORK AREA AND REPORT TO THE LANDSCAPE ARCHITECT/ENGINEER AND OWNER ALL CONDITIONS WHICH PREVENT PROPER EXECUTION OF THIS WORK.
3. THE EXACT LOCATION OF ALL EXISTING UTILITIES, STRUCTURES AND UNDERGROUND UTILITIES, WHICH MAY NOT BE INDICATED ON THE DRAWINGS, SHALL BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROTECT EXISTING STRUCTURES AND UTILITY SERVICES AND IS RESPONSIBLE FOR THEIR REPLACEMENT IF DAMAGED.
4. THE CONTRACTOR SHALL KEEP THE PREMISES FREE FROM RUBBISH AND ALL DEBRIS AT ALL TIMES AND SHALL ARRANGE MATERIAL STORAGE SO AS NOT TO INTERFERE WITH THE OPERATION OF THE PROJECT. ALL UNUSED MATERIALS, RUBBISH AND DEBRIS SHALL BE REMOVED FROM THE SITE.
5. NO TREES OR SHRUBS SHALL BE PLANTED ON EXISTING OR PROPOSED UTILITY LINES.
6. QUALITY ASSURANCE:
 - A. NOMENCLATURE: PLANT NAMES SHALL CONFORM TO THE LATEST EDITION OF THE "LATEST EDITION OF 'AMERICAN STANDARD FOR NURSERY STOCK'" AS SPONSORED BY THE AMERICAN ASSOCIATION OF NURSERMEN, INC (AAN), UNLESS OTHERWISE SPECIFIED.
 - B. SIZE AND GRADING: PLANT SIZES AND GRADING SHALL CONFORM TO THE "LATEST EDITION OF 'AMERICAN STANDARD FOR NURSERY STOCK'" AS SPONSORED BY THE AMERICAN ASSOCIATION OF NURSERMEN, INC (AAN), UNLESS OTHERWISE SPECIFIED.
 - C. NURSERY SOURCE: OBTAIN FRESHLY DUG, HEALTHY, VIGOROUS PLANTS NURSERY GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR A MINIMUM OF 2 YEARS. PLANTS SHALL HAVE BEEN LINED OUT IN ROWS, ANNUALLY CULTIVATED, SPRAYED, PRUNED AND FERTILIZED IN ACCORDANCE WITH CURRENT BEST PRACTICES. ALL PLANTS SHALL HAVE BEEN TRANSPLANTED OR ROOT PRUNED AT LEAST ONCE IN THE PAST 3 YEARS. BALLED AND BURLAPPED PLANTS MUST COME FROM SOIL WHICH WILL HOLD A FIRM ROOT BALL. HEELED IN PLANTS AND PLANTS FROM COLD STORAGE ARE NOT ACCEPTABLE.
 - D. SUBSTITUTIONS: DO NOT MAKE SUBSTITUTIONS OF TREES AND/OR SHRUB MATERIALS. IF REQUIRED LANDSCAPE MATERIAL IS NOT OBTAINABLE, SUBMIT PROOF OF NON-AVAILABILITY AND PROPOSAL FOR USE OF EQUIVALENT MATERIAL. WHEN AUTHORIZED, ADJUSTMENTS OF CONTRACT AMOUNT (IF ANY) WILL BE MADE BY CHANGE ORDER.
7. SEEDING & PLANTING SEASONS AND TIMING CONDITIONS:
 - A. UNLESS OTHERWISE DIRECTED IN WRITING, SEED LAWNS FROM MARCH 15 TO JUNE 15, AND FROM AUGUST 15 TO OCTOBER 15.
 - B. UNLESS OTHERWISE DIRECTED IN WRITING, PLANT TREES AND SHRUBS FROM MARCH 15 TO JUNE 1, AND FROM AUGUST 15 TO OCTOBER 30.

LANDSCAPE MATERIALS:

TOPSOIL:

1. NEW TOPSOIL SHALL BE BETTER THAN OR EQUAL TO THE QUALITY OF THE EXISTING ADJACENT TOPSOIL. IT SHALL MEET THE FOLLOWING CRITERIA:
- A. ORIGINAL LOAM TOPSOIL, WELL DRAINED HOMOGENEOUS TEXTURE AND OF UNIFORM GRADE, WITHOUT THE ADMIXTURE OF SUBSOIL MATERIAL AND FREE OF DENSE MATERIAL, HARDPAN, CLAY, STONES, SOD OR OTHER OBJECTIONABLE MATERIAL.
 - B. CONTAINING NOT LESS THAN 5% NOR MORE THAN 20% ORGANIC MATTER IN THAT PORTION OF A SAMPLING PASSING A 1/4" SIEVE WHEN DETERMINED BY THE WET COMBUSTION METHOD ON A SAMPLE DRIED AT 105°C.
 - C. CONTAINING A pH VALUE WITHIN pH RANGE OF 6.5 TO 7.5 ON THAT PORTION OF THE SAMPLE WHICH PASSES A 1/4" SIEVE.
 - D. CONTAINING THE FOLLOWING WASHED GRADES:
- | <u>SIEVE DESIGNATION</u> | <u>% PASSING</u> |
|--------------------------|------------------|
| 1" | 100 |
| 1/4" | 97-100 |
| No. 200 | 20-60 |

SEED:

1. SEED MIXTURE FOR USE ON LAWN AREAS:
- PROVIDE FRESH, CLEAN, NEW-CROP SEED MIXED IN THE PROPORTIONS SPECIFIED FOR SPECIES AND VARIETY, AND CONFORMING TO FEDERAL AND STATE STANDARDS.

LAWN SEED MIX:

AMOUNT BY WEIGHT	SPECIES/VARIETY	MIN, % PURITY	GERMINATION
40%	KENTUCKY BLUE GRASS	95%	60%
35%	PERENNIAL RYE	98%	90%
25%	RED FESCUE	97%	85%
100%			

SOD:

1. NURSERY GROWN, CULTIVATED GRASS SOD WITH FIBROUS ROOT SYSTEM; FREE OF STONES, WEEDS, AND BURNED OR BARE SPOTS.
2. SPECIES MIX APPROPRIATE TO THE GEOGRAPHIC AREA WITH THE FOLLOWING RANGES:
 - A. BLUEGRASS: 50%–100%
 - B. FINE FESCUE: 0%–30%
 - C. PERENNIAL RYE GRASS: 0%–25%

SITE PREPARATION:

GENERAL:

- EXISTING EXCESS TOPSOIL SHALL BE REMOVED AND STORED IN TOPSOIL STOCKPILES SUFFICIENTLY REMOVED FROM OTHER EXCAVATION OR DISTURBANCE TO AVOID MIXING. SILT FENCE SHALL BE INSTALLED AROUND TOPSOIL STOCKPILE AREAS.
- TOPSOIL:**
1. NEWLY GRADED SUBGRADES: LOOSEN SUBGRADE TO A MINIMUM DEPTH OF 6 INCHES (SCARIFY AT APPROXIMATELY RIGHT ANGLES TO THE SLOPE DIRECTION IN SOIL AREAS THAT ARE STEEPER THAN 5%). REMOVE STONES LARGER THAN 1 INCH IN ANY DIMENSION AND STICKS, ROOTS, RUBBISH, AND OTHER EXTRANEOUS MATTER AND LEGALLY DISPOSE OF THEM OFF OWNER'S PROPERTY.
- 1.1. SPREAD APPROXIMATELY 1/2 THE THICKNESS OF PLANTING SOIL OVER LOOSENED SUBGRADE. MIX THOROUGHLY INTO TOP 4 INCHES OF SUBGRADE. SPREAD REMAINDER OF PLANTING SOIL.
2. UNCHANGED SUBGRADES: IF TURF IS TO BE PLANTED IN AREAS UNALTERED OR UNDISTURBED BY EXCAVATING, GRADING, OR SURFACE-SOIL STRIPPING OPERATIONS. PREPARE SURFACE SOILS AS FOLLOWS:
- 2.1. REMOVE EXISTING GRASS, VEGETATION, AND TURF. DO NOT MIX INTO SURFACE SOIL.
- 2.2. LOOSEN SURFACE SOIL TO A DEPTH OF AT LEAST 6 INCHES (SCARIFY AT APPROXIMATELY RIGHT ANGLES TO THE SLOPE DIRECTION IN SOIL AREAS THAT ARE STEEPER THAN 5%).
- 2.3. APPLY SOIL AMENDMENTS AND FERTILIZERS ACCORDING TO PLANTING SOIL MIX PROPORTIONS AND MIX THOROUGHLY INTO TOP 4 INCHES OF SOIL. TILL SOIL TO A HOMOGENEOUS MIXTURE OF FINE TEXTURE.
- 2.3.1. APPLY FERTILIZER DIRECTLY TO SURFACE SOIL BEFORE LOOSENSING.
- 2.4. REMOVE STONES LARGER THAN 1 INCH IN ANY DIMENSION AND STICKS, ROOTS, TRASH, AND OTHER EXTRANEOUS MATTER.
- 2.5. LEGALLY DISPOSE OF WASTE MATERIAL, INCLUDING GRASS, VEGETATION, AND TURF, OFF OWNER'S PROPERTY.
3. FINISH GRADING: GRADE PLANTING AREAS TO A SMOOTH, UNIFORM SURFACE PLANT WITH LOOSE, UNIFORMLY FINE TEXTURE. GRADE TO WITHIN PLUS OR MINUS 1/2 INCH OF FINISH ELEVATION. ROLL AND RAKE. REMOVE RIDGES, AND FILL DEPRESSIONS TO FINISH GRADES. LIMIT FINISH GRADING TO AREAS THAT CAN BE PLANTED IN THE IMMEDIATE FUTURE.
4. MOISTEN PREPARED AREA BEFORE PLANTING IF SOIL IS DRY. WATER THOROUGHLY TO A DEPTH OF 4 INCHES 48 HOURS BEFORE SODDING AND ALLOW SURFACE TO DRY BEFORE PLANTING. DO NOT CREATE MUDDY SOIL.
5. BEFORE PLANTING, OBTAIN OWNER'S REPRESENTATIVE'S ACCEPTANCE OF FINISH GRADING; RESTORE PLANTING AREAS IF ERODED OR OTHERWISE DISTURBED AFTER FINISH GRADING.

SEEDING:

1. LIME TO ACHIEVE pH OF 6.5.
2. FERTILIZER: SEE "EXECUTION OF LANDSCAPE WORK" NOTE #4.
3. INCORPORATE LIME AND FERTILIZER IN THE TOP 4" OF TOPSOIL.
4. SMOOTH AND FIRM THE SEEDBED.

SOD:

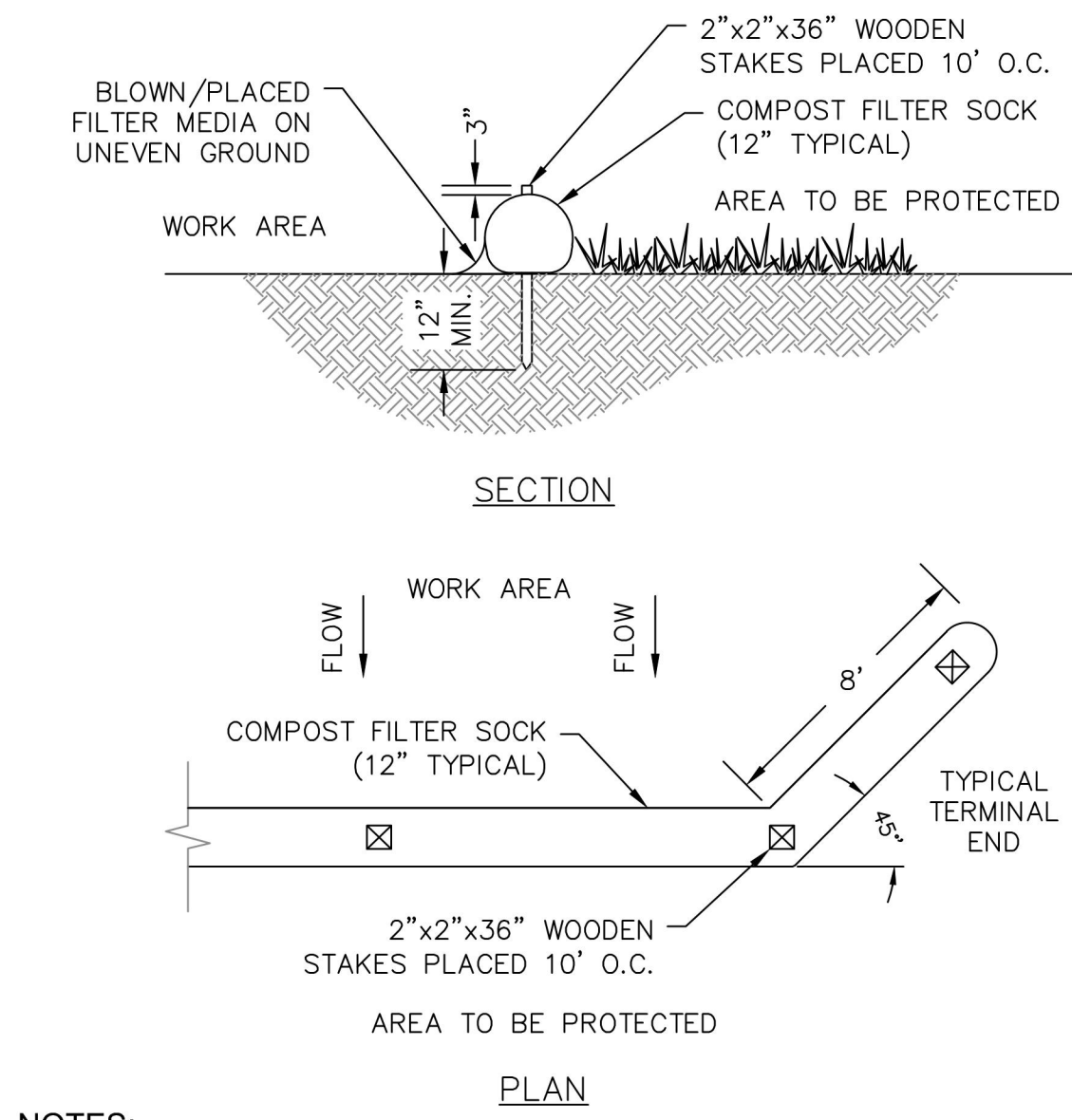
1. APPLY LIME AT APPLICATION RATE RECOMMENDED BY SOIL ANALYSIS. WORK LIME INTO TOP 4 INCHES OF SOIL.
2. APPLY FERTILIZER AT APPLICATION RATE RECOMMENDED BY SOIL ANALYSIS.
3. APPLY FERTILIZER AFTER SMOOTH RAKING OF TOPSOIL AND PRIOR TO INSTALLATION OF SOD.
4. APPLY FERTILIZER NO MORE THAN 48 HOURS BEFORE LAYING SOD.
5. MIX FERTILIZER THOROUGHLY INTO UPPER 4 INCHES OF TOPSOIL.
6. LIGHTLY WATER SOIL TO AID DISSIPATION OF FERTILIZER.

		TABLE 5.3 SOIL RESTORATION REQUIREMENTS		
TYPE OF SOIL DISTURBANCE	SOIL RESTORATION REQUIREMENT		COMMENTS/EXAMPLES	
NO SOIL DISTURBANCE	RESTORATION NOT REQUIRED		PRESERVATION OF NATURAL FEATURES	
MINIMAL SOIL DISTURBANCE	RESTORATION NOT REQUIRED		CLEARING AND GRUBBING	
AREAS WHERE TOPSOIL IS STRIPPED ONLY (NO CHANGE IN GRADE)	HSG A&B***	HSG C&D***	PROTECT AREA FROM ONGOING CONSTRUCTION ACTIVITIES	
	APPLY 6" OF TOPSOIL	AERATE* AND APPLY 6" OF TOPSOIL		
AREAS OF CUT OR FILL	HSG A&B***	HSG C&D***		
	AERATE* AND APPLY 6" OF TOPSOIL	APPLY FULL SOIL RESTORATION**		
HEAVY TRAFFIC AREAS ON SITE (ESPECIALLY WITHIN 5–25 FEET AROUND BUILDINGS BUT NOT WITHIN 5 FEET OF PERIMETER FOUNDATION WALLS)	APPLY FULL SOIL RESTORATION** (DE–COMPACTION AND COMPOST ENHANCEMENT)			
AREAS WHERE RUNOFF REDUCTION AND/OR INFILTRATION PRACTICES ARE APPLIED	RESTORATION NOT REQUIRED, BUT MAY BE APPLIED TO ENHANCE THE REDUCTION SPECIFIED FOR APPROPRIATE PRACTICES		KEEP CONSTRUCTION EQUIPMENT FROM CROSSING THESE AREAS. TO PROTECT NEWLY INSTALLED PRACTICE FROM ONGOING CONSTRUCTION, CONSTRUCT A SINGLE PHASE OPERATION FENCE AREA.	
REDEVELOPMENT PROJECTS	SOIL RESTORATION IS REQUIRED ON REDEVELOPMENT PROJECTS IN AREAS WHERE EXISTING IMPERVIOUS AREA WILL BE CONVERTED TO PERVIOUS AREA			

* AERATION INCLUDES THE USE OF MACHINES SUCH AS TRACTOR-DRAWN IMPLEMENTS WITH COULTERS MAKING A NARROW SILT IN THE SOIL. A ROLLER WITH MANY SKIDS MAKING INDENTATIONS IN THE SOIL OR PRONGS WHICH FUNCTION LIKE A MINI SUBSOILER.

** PER "DEEP RIPPING AND DE-COMPACTION, DEC 2008"

*** HYDROLOGIC SOIL GROUP (HSG) ACCORDING TO THE NATIONAL RESOURCE CONSERVATION SERVICE.



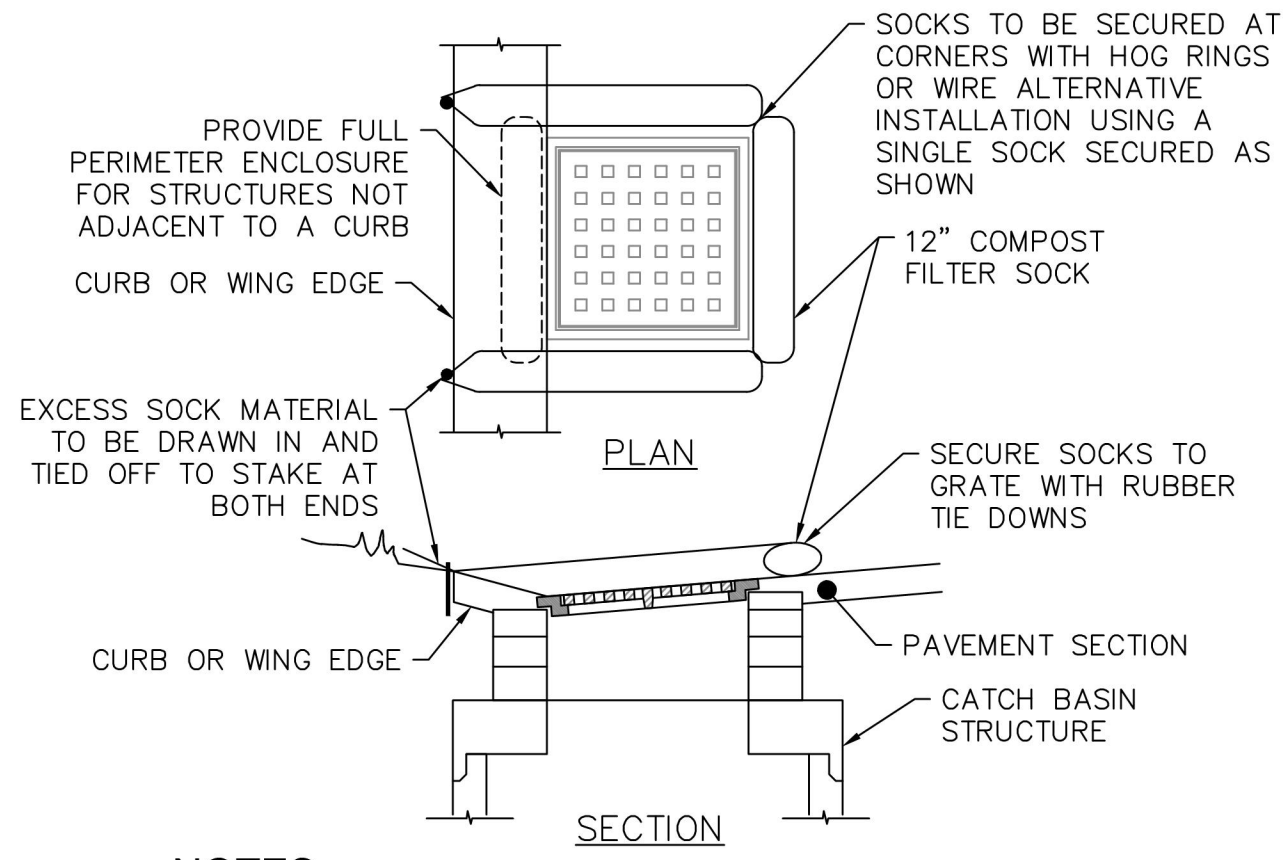
NOTES:

1. COMPOST FILTER SOCKS SHALL BE FILTREXX SILTSOXX OR EQUIVALENT.
2. THE COMPOST FILTER SOCK SHALL MEET THE REQUIREMENTS IN THE NEW YORK STANDARD SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (MOST RECENT EDITION).
3. THE COMPOST INFILL SHALL MEET THE PHYSICAL PARAMETERS IN TABLE 5.3—COMPOST STANDARDS TABLE.
4. SOCKS MAY BE FILLED AFTER PLACEMENT BY BLOWING COMPOST INTO THE TUBE PNEUMATICALLY, OR FILLED AT A STAGING LOCATION AND MOVED INTO THE DESIGNED LOCATION.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND ACCUMULATED SEDIMENT REMOVED WHEN IT REACHES HALF THE ABOVE GROUND HEIGHT.
6. COMPOST FILTER SOCKS SHALL BE USED WHERE EROSION COULD OCCUR IN THE FORM OF SHEET EROSION.
7. UPON STABILIZATION OF THE CONTRIBUTING AREA, THE STAKES SHALL BE REMOVED. THE SOCKS SHALL BE REMOVED BY CUTTING THE MESH AND THE COMPOST SPREAD AS AN ADDITIONAL MULCH TO ACT AS A SOIL SUPPLEMENT.
8. MAXIMUM ALLOWABLE SLOPE LENGTHS CONTRIBUTING RUN-OFF TO A 12\"/>

% SLOPE	MAXIMUM SLOPE LENGTH(FT)
2	250
5	225
10	125
25	65
33	50
50	40
	25

COMPOST FILTER SOCK INSTALLATION

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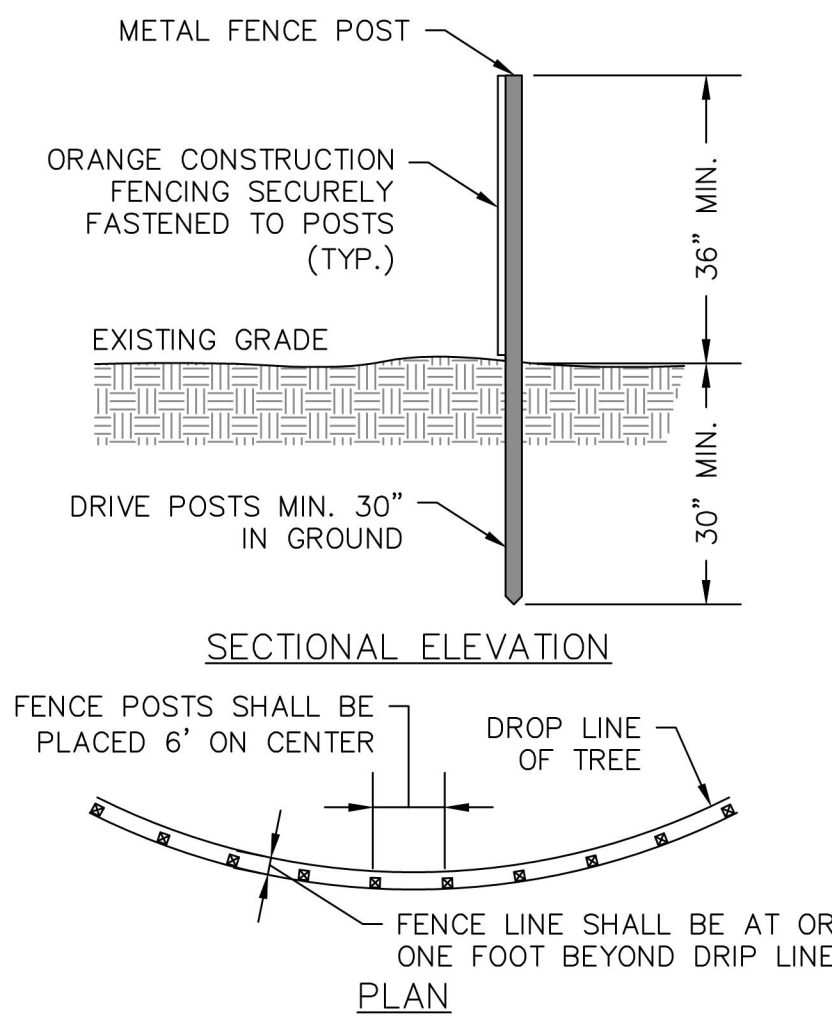


NOTES:

1. SECURE FILTERSOCK TO GROUND AT BOTH ENDS.
2. INLET PROTECTION SHALL REMAIN IN-PLACE UNTIL SITE HAS BEEN STABILIZED.
3. SEE COMPOST FILTER SOCK INSTALLATION DETAIL FOR ADDITIONAL NOTES AND SPECIFICATIONS.

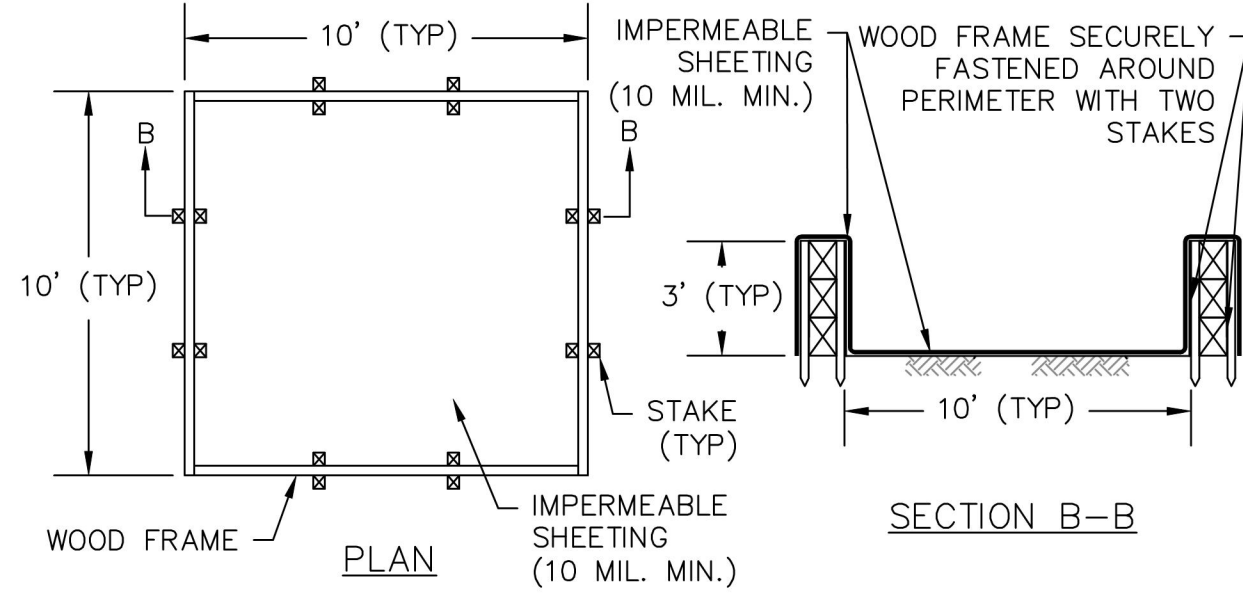
COMPOST FILTER SOCK INLET PROTECTION DETAIL

SCALE: NOT TO SCALE



TREE PROTECTION FENCING

SCALE: NOT TO SCALE



WASHOUT SPECIFICATIONS:

1. LOCATE WASHOUT STRUCTURE A MINIMUM OF 50 FEET AWAY FROM OPEN CHANNELS, STORM DRAIN INLETS, SENSITIVE AREAS, WETLANDS, BUFFERS AND WATER COURSES AND AWAY FROM CONSTRUCTION TRAFFIC.
2. SIZE WASHOUT STRUCTURE FOR VOLUME NECESSARY TO CONTAIN WASH WATER AND SOLIDS AND MAINTAIN AT LEAST 4 INCHES OF FREEBOARD. TYPICAL DIMENSIONS ARE 10 FEET X 10 FEET X 3 FEET DEEP.
3. PREPARE SOIL BASE FREE OF ROCKS OR OTHER DEBRIS THAT MAY CAUSE TEARS OR HOLES IN THE LINER. FOR LINER, USE 10 MIL OR THICKER UV RESISTANT, IMPERMEABLE SHEETING, FREE OF HOLES AND TEARS OR OTHER DEFECTS THAT COMPROMISE IMPERMEABILITY OF THE MATERIAL.
4. PROVIDE A SIGN FOR THE WASHOUT IN CLOSE PROXIMITY TO THE FACILITY.
5. KEEP CONCRETE WASHOUT STRUCTURE WATER TIGHT. REPLACE IMPERMEABLE LINER IF DAMAGED (E.G., RIPPED OR PUNCTURED). EMPTY OR REPLACE WASHOUT STRUCTURE THAT IS 75 PERCENT FULL, AND DISPOSE OF ACCUMULATED MATERIAL PROPERLY. DO NOT REUSE PLASTIC LINER. WET-VACUUM STORED LIQUIDS THAT HAVE NOT EVAPORATED AND DISPOSE OF IN AN APPROVED MANNER. PRIOR TO FORECASTED RAINSTORMS, REMOVE LIQUIDS OR COVER STRUCTURE TO PREVENT OVERFLOWS. REMOVE HARDENED SOLIDS, WHOLE OR BROKEN UP, FOR DISPOSAL OR RECYCLING. MAINTAIN RUNOFF DIVERSION AROUND EXCAVATED WASHOUT STRUCTURE UNTIL STRUCTURE IS REMOVED.

TEMPORARY CONCRETE WASHOUT STRUCTURE WITH WOODEN PLANKS

SCALE: NOT TO SCALE

EROSION AND SEDIMENT CONTROL MEASURES:

GENERAL MEASURES:

1. DAMAGE TO SURFACE WATERS RESULTING FROM EROSION AND SEDIMENTATION SHALL BE MINIMIZED BY STABILIZING DISTURBED AREAS AND BY REMOVING SEDIMENT FROM CONSTRUCTION SITE DISCHARGES.
2. AS MUCH AS IS PRACTICAL, EXISTING VEGETATION SHALL BE PRESERVED. FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES IN ANY PORTION OF THE SITE, PERMANENT VEGETATION SHALL BE ESTABLISHED ON ALL EXPOSED SOILS.
3. SITE PREPARATION ACTIVITIES SHALL BE PLANNED TO MINIMIZE THE SCOPE AND DURATION OF SOIL DISRUPTION.

PARTICULAR MEASURES:

SOIL STOCKPILES: SILT FENCES SHALL BE CONSTRUCTED AROUND ALL STOCKPILES OF FILL, TOPSOIL, AND EXCAVATED OVERBURDEN THAT ARE TO REMAIN EXPOSED FOR PERIODS LESS THAN 21 DAYS. SILT FENCES SHALL BE ANCHORED AND MAINTAINED IN GOOD CONDITION UNTIL SUCH TIME AS SAID STOCKPILES ARE REMOVED AND STOCKPILING AREAS ARE BROUGHT TO FINAL GRADE AND PERMANENTLY STABILIZED. TOPSOIL AND FILL THAT IS TO REMAIN STOCKPILED ON-SITE FOR PERIODS GREATER THAN 21 DAYS SHALL BE STABILIZED BY SEEDING. PRIOR TO THE SEEDING OPERATION, THE STOCKPILED MATERIAL SHALL BE GRADED AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. IN NO CASE SHALL ERODIBLE MATERIALS BE STOCKPILED WITHIN 25 FEET OF ANY DITCH, STREAM, OR OTHER SURFACE WATER BODY.

MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES:

PERMANENT AND TEMPORARY VEGETATION:

INSPECT ALL AREAS THAT HAVE RECEIVED VEGETATION EVERY SEVEN DAYS. ALL AREAS DAMAGED BY EROSION OR WHERE SEED HAS NOT ESTABLISHED SHALL BE REPAIRED AND RESTABILIZED IMMEDIATELY.

SILT FENCE:

INSPECT FOR DAMAGE EVERY SEVEN DAYS. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE UP-SLOPE FACE OF THE FENCE BEFORE IT ACCUMULATES TO A HEIGHT EQUAL TO 1/3 THE HEIGHT OF THE FENCE. IF FENCE FABRIC TEARS, BEGINS TO DECOMPOSE, OR IN ANYWAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED SECTION OF SEDIMENT CONTROL BARRIER IMMEDIATELY. REVEGETATE DISTURBED AREA TO STABILIZE SOIL STOCK PILE. REMOVE THE SEDIMENT CONTROL BARRIER WHEN THE SOIL STOCKPILE HAS BEEN REMOVED.

SOIL STOCKPILE:

INSPECT SEDIMENT CONTROL BARRIERS (SILT FENCE OR HAYBALE) AND VEGETATION FOR DAMAGE EVERY SEVEN DAYS. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE UP-SLOPE FACE OF THE SEDIMENT CONTROL BARRIER BEFORE IT ACCUMULATES TO A HEIGHT EQUAL TO 1/3 THE HEIGHT OF THE SEDIMENT CONTROL BARRIER. IF SEDIMENT CONTROL BARRIER TEARS, BEGINS TO DECOMPOSE, OR IN ANYWAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED SECTION OF SEDIMENT CONTROL BARRIER IMMEDIATELY. REVEGETATE DISTURBED AREA TO STABILIZE SOIL STOCK PILE. REMOVE THE SEDIMENT CONTROL BARRIER WHEN THE SOIL STOCKPILE HAS BEEN REMOVED.

DUST CONTROL:

SCHEDULE CONSTRUCTION OPERATIONS TO MINIMIZE THE AMOUNT OF DISTURBED AREAS AT ANY ONE TIME DURING THE COURSE OF WORK. APPLY TEMPORARY SOIL STABILIZATION PRACTICES SUCH AS MULCHING, SEEDING, AND SPRAYING (WATER). STRUCTURAL MEASURES (MULCH, SEEDING) SHALL BE INSTALLED IN DISTURBED AREAS BEFORE SIGNIFICANT BLOWING PROBLEMS DEVELOP. WATER SHALL BE SPRAYED AS NEEDED. REPEAT AS NEEDED, BUT AVOID EXCESSIVE SPRAYING, WHICH COULD CREATE RUNOFF AND EROSION PROBLEMS.

SNOW AND ICE CONTROL:

PARKING LOTS, ROADWAYS, AND DRIVEWAYS ADJACENT TO WATER QUALITY FILTERS SHALL NOT BE SANDED DURING SNOW EVENTS DUE TO HIGH POTENTIAL FOR CLOGGING FROM SAND IN SURFACE WATER RUNOFF. USE SALT ONLY FOR SNOW AND ICE CONTROL.

GENERAL EROSION AND SEDIMENT CONTROL NOTES:

1. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE IN STRICT COMPLIANCE WITH 'NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL', NOVEMBER 2016.
2. EXCESS SOIL TO BE STOCKPILED WITHIN THE LIMITS OF SITE DISTURBANCE IF NOT USED IMMEDIATELY FOR GRADING PURPOSES. INSTALL SEDIMENT AROUND SOIL STOCKPILES.
3. APPLY SURFACE STABILIZATION AND RESTORATION MEASURES. AREAS UNDERGOING CLEARING OR GRADING AND ANY AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WHERE WORK IS DELAYED, SUSPENDED, OR INCOMPLETE AND WILL NOT BE REDISTURBED FOR 21 DAYS OR MORE AFTER CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS CEASED. AREAS UNDERGOING CLEARING OR GRADING AND ANY AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WHERE WORK IS COMPLETE AND WILL NOT BE REDISTURBED SHALL BE STABILIZED AND RESTORED WITH PERMANENT VEGETATIVE COVER AS SOON AS SITE AREAS ARE AVAILABLE AND WITHIN 14 DAYS AFTER WORK IS COMPLETE. (SEE SPECIFICATIONS FOR PERMANENT VEGETATIVE COVER). SEEDING FOR PERMANENT VEGETATIVE COVER SHALL BE WITHIN THE SEASONAL LIMITATIONS. PROVIDE STABILIZATION WITH TEMPORARY VEGETATIVE COVER WITHIN 14 DAYS AFTER WORK IS COMPLETE, FOR SEEDING OUTSIDE PERMITTED SEEDING PERIODS.
4. SEEDED AREAS TO BE MULCHED WITH STRAW OR HAY MULCH IN ACCORDANCE WITH VEGETATIVE COVER SPECIFICATIONS.
5. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT THE COURSE OF CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST BY SPRINKLING EXPOSED SOIL AREAS PERIODICALLY WITH WATER AS REQUIRED. THE CONTRACTOR IS TO SUPPLY ALL EQUIPMENT AND WATER.
7. WHEN ALL DISTURBED AREAS ARE STABLE, ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED.

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EROSION CONTROL DETAILS

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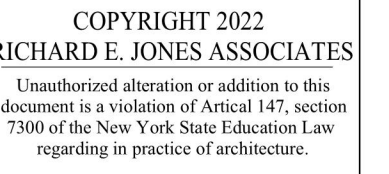
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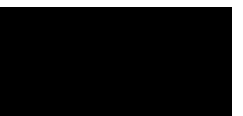
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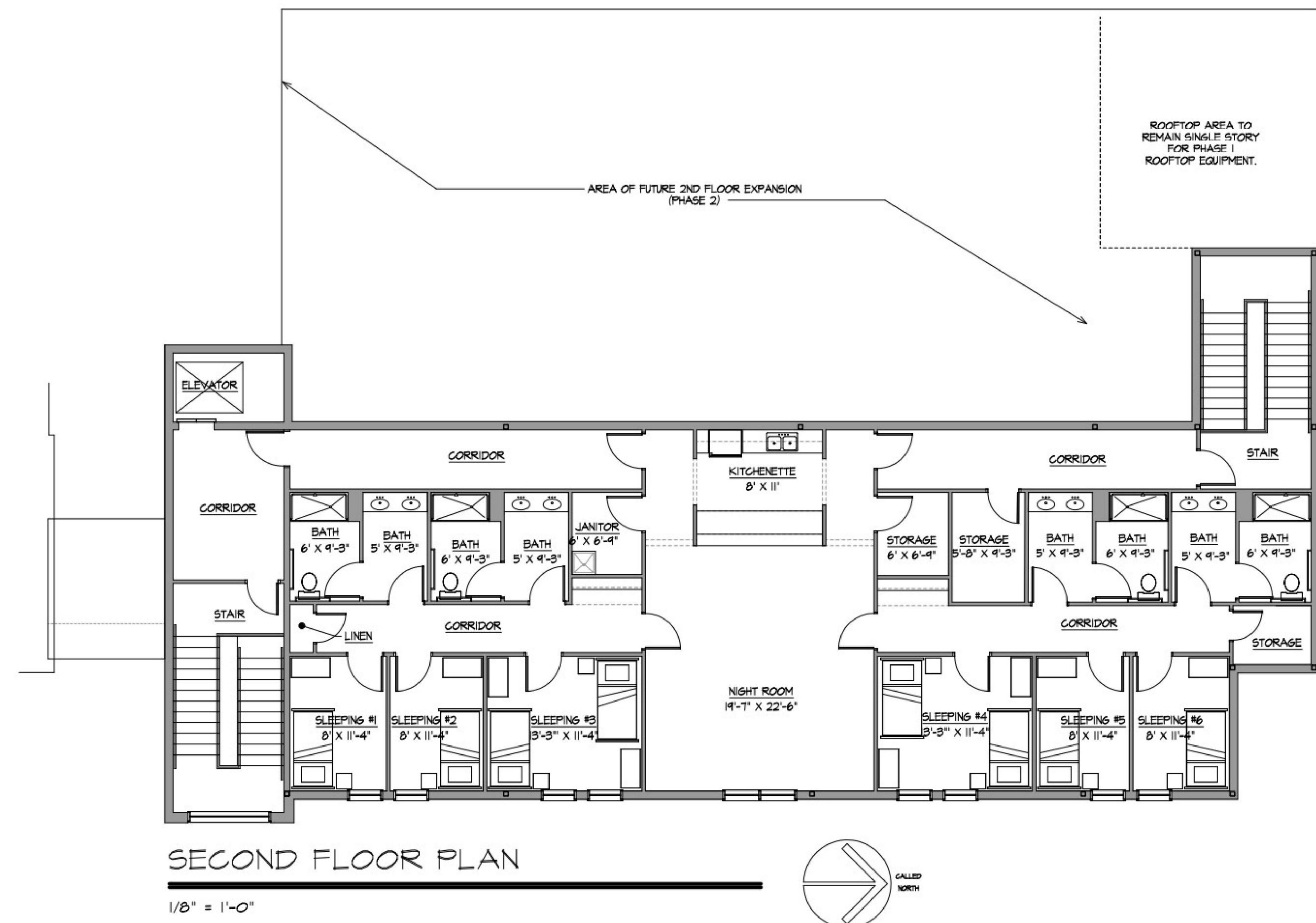
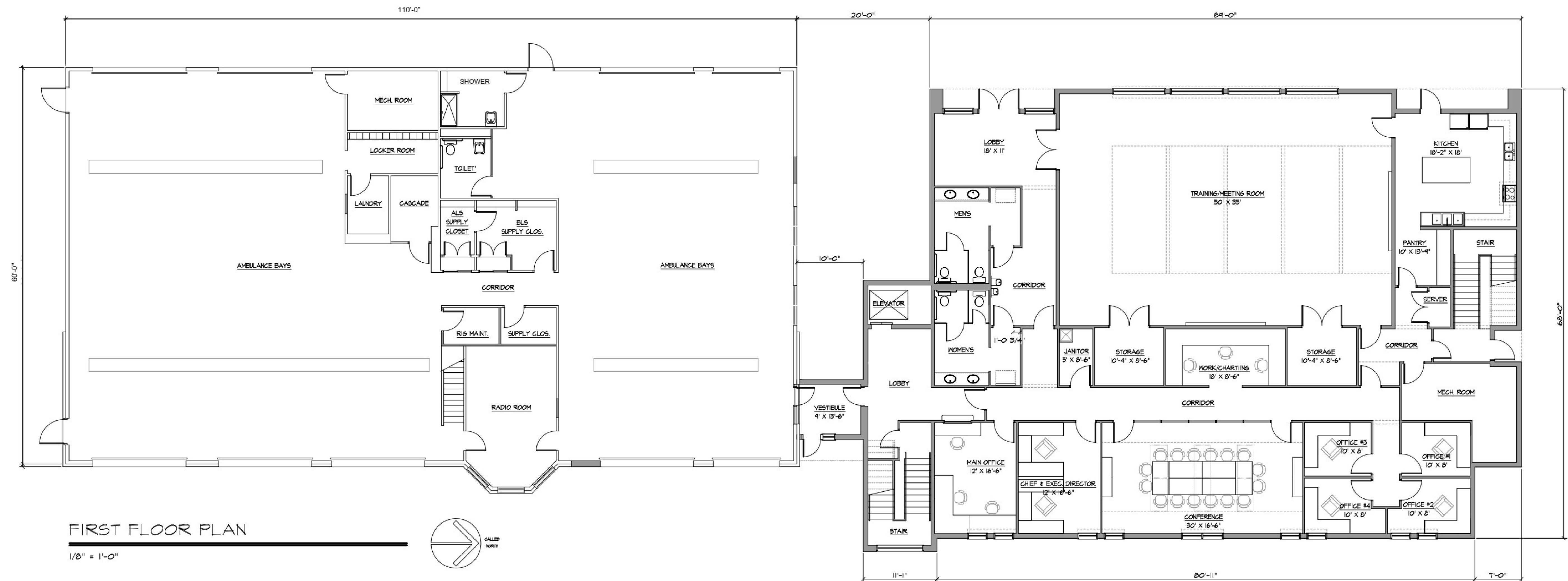
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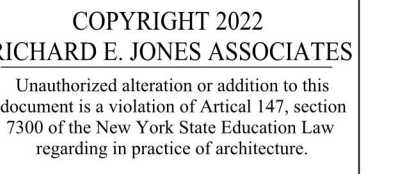
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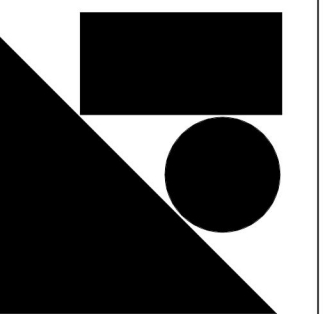
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