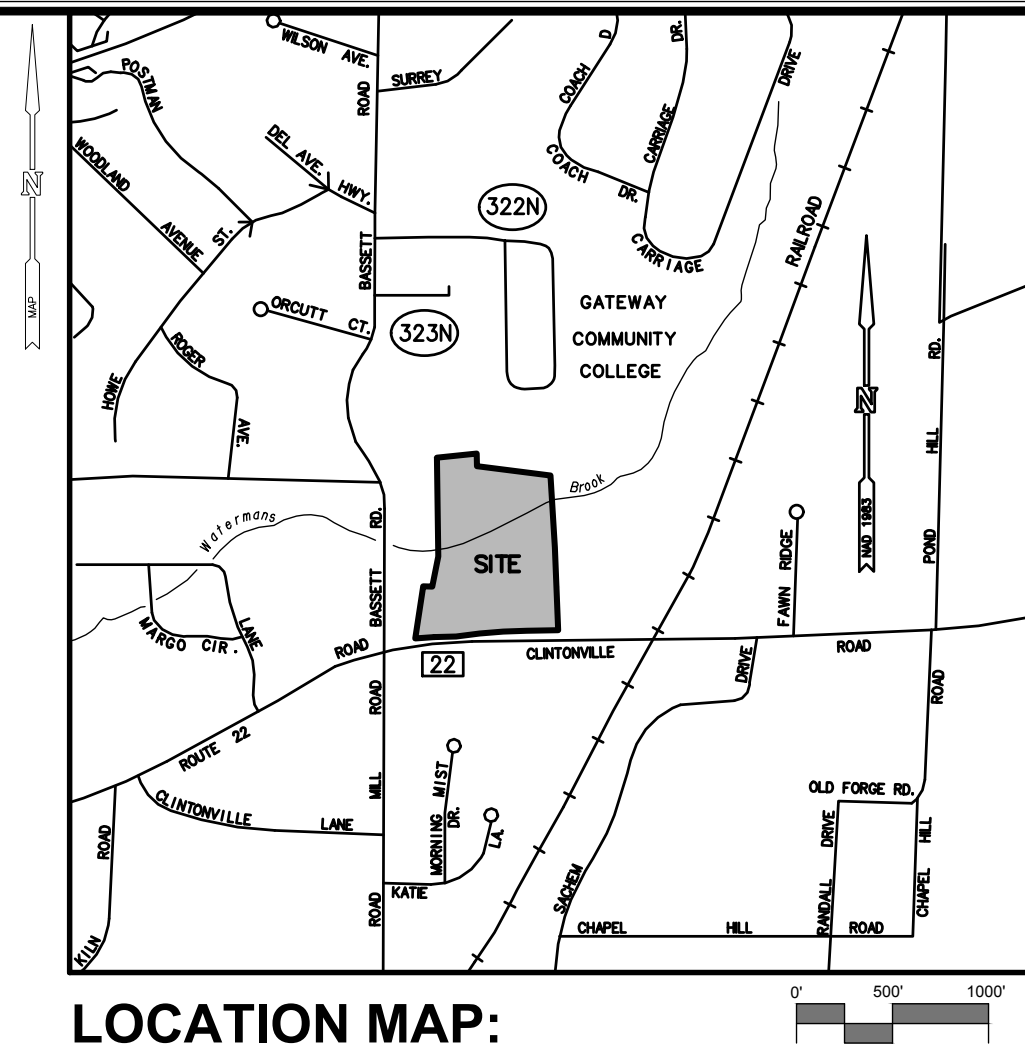


# PROPOSED ELDERLY HOUSING DEVELOPMENT

343 CLINTONVILLE ROAD (RT. 22)  
NORTH HAVEN, CONNECTICUT

2709-13  
OCTOBER 27, 2020  
REVISED: DECEMBER 8, 2020



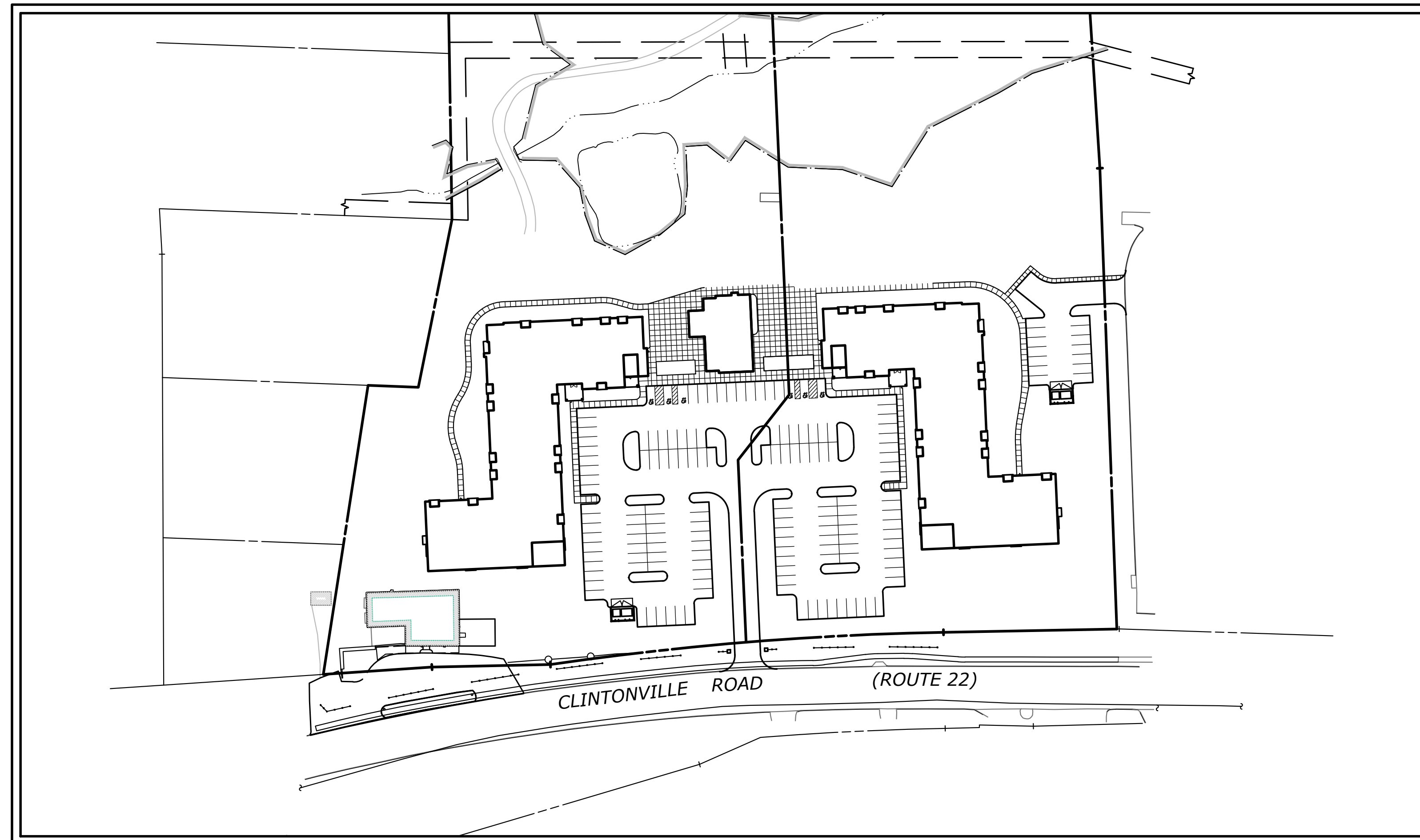
LOCATION MAP:  
SCALE: 1" = 1000'

## GENERAL NOTES

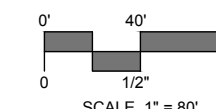
- BOUNDARY INFORMATION TOPOGRAPHIC INFORMATION IS BASED UPON A PROPERTY SURVEY / TOPOGRAPHIC SURVEY CONDUCTED BY MILONE & MACBROOM, INC. ENTITLED, "PROPERTY SURVEY/TOPOGRAPHIC SURVEY PREPARED FOR: VIGLIOTTI CONSTRUCTION COMPANY 343 CLINTONVILLE ROAD, NORTH HAVEN, CONNECTICUT" DATED JUNE 5, 2019.
- NORTH ARROW, BEARINGS AND COORDINATES ARE BASED UPON THE CONNECTICUT COORDINATE SYSTEM (NAD 1983)
- ELEVATIONS, CONTOURS AND BENCHMARK ARE BASED UPON NAVD 1988
- INLAND WETLANDS HAVE BEEN IDENTIFIED AND FILED LOCATED ON MAY 24, 2019 BY MEGAN B. RAYMOND SENIOR PROJECT MANAGER, ENVIRONMENTAL SCIENCE MILONE AND MACBROOM INC.
- INFORMATION REGARDING THE LOCATION OF EXISTING UTILITIES HAS BEEN BASED UPON AVAILABLE INFORMATION AND MAY BE INCOMPLETE, AND WHERE SHOWN SHOULD BE CONSIDERED APPROXIMATE. THE LOCATION OF ALL EXISTING UTILITIES SHOULD BE CONFIRMED PRIOR TO BEGINNING CONSTRUCTION. CALL "CALL BEFORE YOU DIG", 1-800-922-4455. ALL UTILITY LOCATIONS THAT DO NOT MATCH THE VERTICAL OR HORIZONTAL CONTROL SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
- MILONE & MACBROOM INC. ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF MAPS AND DATA WHICH HAVE BEEN SUPPLIED BY OTHERS.
- ALL UTILITY SERVICES ARE TO BE UNDERGROUND. THE EXACT LOCATION AND SIZE OF ELECTRIC, TELEPHONE, CABLE TELEVISION AND GAS ARE TO BE DETERMINED BY THE RESPECTIVE UTILITY COMPANIES.
- ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- SEDIMENT AND EROSION CONTROL MEASURES AS DEPICTED ON THESE PLANS AND DESCRIBED WITHIN THE SEDIMENT AND EROSION CONTROL NARRATIVE SHALL BE IMPLEMENTED AND MAINTAINED UNTIL PERMANENT COVER AND STABILIZATION IS ESTABLISHED. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL CONFORM TO THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, CONNECTICUT - 2002, AND IN ALL CASES BEST MANAGEMENT PRACTICES SHALL PREVAIL.
- ALL DISTURBED AREAS SHALL RECEIVE A MINIMUM OF 6" TOPSOIL, AND BE SEEDED WITH GRASS OR SODDED, AS SHOWN ON THE PLANS.
- ALL STORM DRAIN PIPE SHALL BE HDPE PIPE UNLESS OTHERWISE INDICATED.
- ALL PROPOSED CONTOURS AND SPOT ELEVATIONS INDICATE FINISHED GRADE.
- ALL CONSTRUCTION MATERIALS AND METHODS SHALL CONFORM TO THE TOWN OF CHESHIRE REQUIREMENTS AND TO THE APPLICABLE SECTIONS OF THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION, FORM 817 AND ADDENDUMS
- THE PLANS REQUIRE A CONTRACTOR'S WORKING KNOWLEDGE OF LOCAL, MUNICIPAL, WATER AUTHORITY, AND STATE CODES FOR UTILITY SYSTEMS. ANY CONFLICTS BETWEEN MATERIALS AND LOCATIONS SHOWN, AND LOCAL REQUIREMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE EXECUTION OF WORK. THE ENGINEER WILL NOT BE HELD LIABLE FOR COSTS INCURRED TO IMPLEMENT OR CORRECT WORK WHICH DOES NOT CONFORM TO LOCAL CODE.
- ALL FUEL, OIL, PAINT, OR OTHER HAZARDOUS MATERIALS SHOULD BE STORED IN A SECONDARY CONTAINER AND REMOVED TO A LOCKED INDOOR AREA WITH AN IMPERVIOUS FLOOR DURING NON-WORK HOURS.
- THE PROPERTY OWNER MUST MAINTAIN (REPAIR/REPLACE WHEN NECESSARY) THE SILTATION CONTROL UNTIL ALL DEVELOPMENT ACTIVITY IS COMPLETED AND ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.
- THESE PLANS HAVE BEEN PREPARED FOR LOCAL LAND USE APPROVAL ONLY.

## CONSTRUCTION SEQUENCE

- PRIOR TO COMMENCEMENT OF WORK, A PRECONSTRUCTION MEETING SHALL BE HELD WITH TOWN STAFF AND REPRESENTATIVES OF THE CONTRACTOR AND OWNER. AT THIS MEETING, ONE PERSON WILL BE PLACED IN CHARGE OF SEDIMENT AND EROSION CONTROL FOR THE ENTIRE SITE.
- THE CONTRACTOR TO STAKE OUT LIMIT OF DISTURBANCE AND VEGETATION TO BE RETAINED. NO DISTURBANCE IS TO TAKE PLACE BEYOND THE LIMITS OF WORK SHOWN.
- CONTRACTOR IS TO INSTALL SEDIMENT AND EROSION CONTROLS ALONG THE PERIMETER AND STABILIZED CONSTRUCTION ENTRANCES.
- INITIATE WEEKLY EROSION CONTROL INSPECTIONS AND MONITORING PER CTDEEP CONSTRUCTION STORMWATER GENERAL PERMIT REGISTRATION.
- CLEAR AND GRUB SITE AND STOCKPILE TOPSOIL. PLACE SEDIMENT FILTER FENCE AND HAY BALES AROUND STOCKPILES.
- INSTALL SEDIMENT AND EROSION CONTROLS INCLUDING DIVERSION BERMS, TEMPORARY SEDIMENT TRAPS, SLIT FENCE HAY BALES, AND INLET PROTECTION PER THE SEDIMENT AND EROSION CONTROL PLAN.
- INITIATE MASS EARTHWORK OPERATIONS AFTER ALL SILT FENCES, HAY BALES, INLET PROTECTION, TEMPORARY SEDIMENT TRAPS AND DIVERSION BERMS ARE INSTALLED.
- COMMENCE BUILDING FOUNDATION WORK AND BUILDING CONSTRUCTION.
- INSTALL UTILITIES, DRIVEWAYS AND CURBING.
- COMPLETE ALL SITE IMPROVEMENTS.
- PLACE PERMANENT SEEDING AT AREAS DISTURBED DUE TO CONSTRUCTION AND INSTALL PLANTINGS.
- REMOVE ALL TEMPORARY SEDIMENTATION AND SOIL EROSION CONTROL MEASURES.
- CLEAN THE PROPOSED STORM WATER MANAGEMENT SYSTEM, INCLUDING ALL PIPES, CATCH BASINS, MANHOLES, CDS UNIT, SEDIMENT FOREBAY, AND STORM WATER MANAGEMENT AREA. ALL SEDIMENT AND CONSTRUCTION DEBRIS SHOULD BE REMOVED.
- INSTALL ALL PAVEMENT MARKINGS, SIGNAGE, AND LIGHTING.
- CLOSE OUT THE PROJECT AND FILE A NOTICE OF TERMINATION FORM TO CLOSE CTDEEP STORMWATER GENERAL PERMIT REGISTRATION.



PROJECT SITE VICINITY MAP:



## OWNER:

PIEPER'S FARM, LLC  
2924 WHITNEY AVENUE  
HAMDEN, CT 06518

## APPLICANT:

VIGLIOTTI CONSTRUCTION CO  
140 NORTH BRANFORD ROAD  
BRANFORD, CT 06405

## LIST OF DRAWINGS

NO.	NAME	TITLE
01	--	TITLE SHEET
2	EX	SITE PLAN - EXISTING CONDITIONS
04	LA	SITE PLAN - LAYOUT & LANDSCAPING
05	GU	SITE PLAN - GRADING AND UTILITIES
05	SE-1	SITE PLAN - SEDIMENT AND EROSION CONTROLS
06	SE-2	SITE DETAILS SEDIMENT AND EROSION CONTROLS
07-11	SD-1-SD-5	SITE DETAILS

## PROJECT DATA - 343 CLINTONVILLE ROAD

EXISTING ZONE:	EH
PROPOSED USE:	ELDERLY HOUSING

DIMENSIONAL CRITERIA	REQ'D/PERMITTED	PROPOSED PARCEL A	PROPOSED PARCEL B
MINIMUM LOT AREA	200,000 SQ FEET	301,310 SF (6.917 AC)	256,524 SF (5.889 AC)
MAXIMUM UNITS PER ACRE	13.5	8.7 (60 UNITS)	10.2 (60 UNITS)
MINIMUM LOT WIDTH	200'	>200'	>200'
MINIMUM FRONT YARD	75'	89.3'	77.1'
MINIMUM SIDE YARD	32' MIN.	32.5'	32.5'
MINIMUM REAR YARD	50' MIN.	622'	506.5'
MAXIMUM BUILDING COVERAGE	20%	9.2%	9.4%
MAXIMUM BUILDING HEIGHT	35'	>35'	>35'
MINIMUM FLOOR AREA PER UNIT	500 SQ FEET	---	---

## PARKING REQUIREMENT - 343 CLINTONVILLE ROAD

	REQ'D/PERMITTED	PROPOSED/PROVIDED
ELDERLY HOUSING	1 SPACE PER UNIT	
PARCEL A	1 SPACE X 60 UNITS=60 SPACES	77 SPACES
PARCEL B	1 SPACE X 60 UNITS=60 SPACES	70 SPACES
PARKING ADJACENT TO TUSCAN VILLA		14 SPACES
ACCESSIBLE PARKING		6 SPACES
TOTAL	120 SPACES	161 SPACES

## PREPARED BY:



NOW PART OF SLR  
99 REALTY DRIVE  
CHESHIRE, CT 06410  
203.271.1773  
WWW.MMINC.COM | SLRCONSULTING.COM

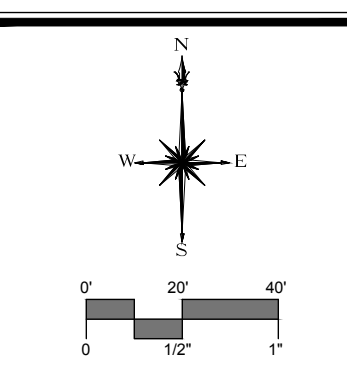
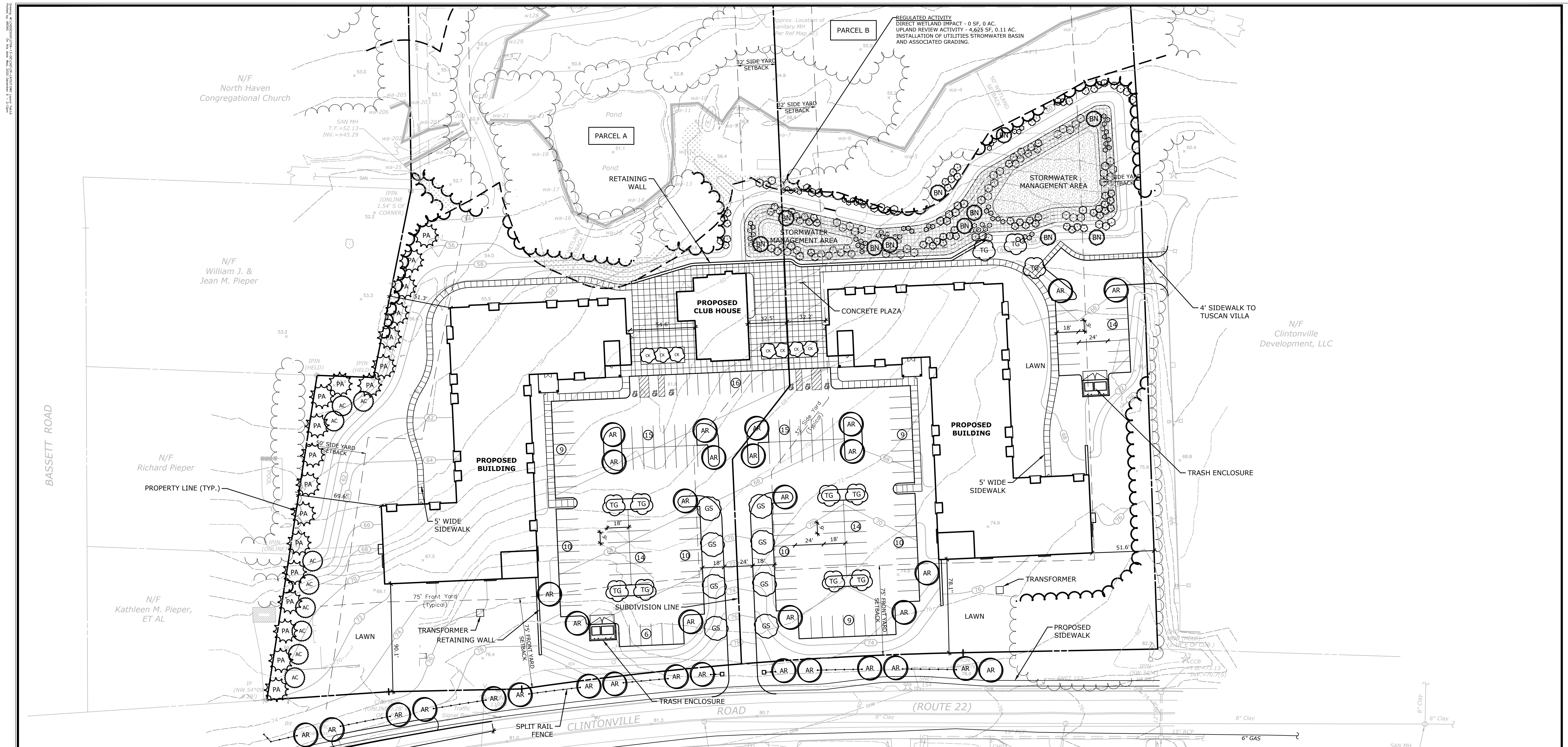


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 203.271.1773  
 WWW.MJMC.COM

DESCRIPTION	DATE	BY
TOWN COMMENTS	12/28/2020	AUS

**SITE PLAN - LAYOUT & LANDSCAPING**  
**PROPOSED ELDERLY HOUSING DEVELOPMENT**  
 343 CLINTONVILLE ROAD (RT. 22)  
 NORTH HAVEN, CONNECTICUT

BDK DESIGNED	BDK DRAWN	BDK CHECKED

SCALE: 1"=40'

DATE: **OCTOBER 27, 2020**

PROJECT NO: **2709-13**

SHEET NO: **03 OF 11**

**LA**

**PLANTING NOTES**

- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATING PLANT PITS.
- SEED ALL DISTURBED AREAS TO LAWN WITHIN CONTRACT LIMIT LINE UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL PROVIDE A 6" MINIMUM DEPTH OF SCREENED TOPSOIL FOR ALL LAWN AREAS.
- ALL PLANTING BEDS SHALL HAVE 12" MINIMUM DEPTH OF TOPSOIL.
- THE CONTRACTOR SHALL PROVIDE A 4" MIN. DEPTH OF DARK BROWN SHREDDED MULCH OVER ALL PLANTING BEDS AND TREE PLANTINGS. MULCHED PLANT BEDS SHALL EXTEND 12" FURTHER THEN THE ADJACENT PLANTINGS.
- ALL PLANT MATERIAL IS SUBJECT TO INSPECTION AND APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO AND AFTER PLANTING.
- PLANT SPECIES MAY BE ADJUSTED BASED ON AVAILABILITY AT TIME OF PLANTING. ALL PLANT MATERIAL SUBSTITUTIONS ARE SUBJECT TO REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT.

- ALL PLANT MATERIALS SHALL CARRY A FULL GUARANTEE FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE, TO INCLUDE PROMPT TREATMENT OR REMOVAL AND REPLACEMENT OF ANY PLANTS FOUND TO BE IN AN UNHEALTHY CONDITION BY THE LANDSCAPE ARCHITECT. ALL REPLACEMENTS SHALL BE OF THE SAME KIND AND SIZE OF PLANTS SPECIFIED IN THE PLANT LIST.
- MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER PLANTING AND SHALL CONTINUE UNTIL ACCEPTANCE BY THE LANDSCAPE ARCHITECT. MAINTENANCE SHALL INCLUDE WATERING, MULCHING, TIGHTENING & REPLACING OF GUYS, REPLACEMENT OF SICK OR DEAD PLANTS, RESETTling PLANTS TO PROPER GRADE OR UPRIGHT (PLUMB) POSITION, RESTORATION OF SAUCERS, AND ALL OTHER CARE NEEDED FOR PROPER GROWTH OF THE PLANTS.
- WHERE A SIZE RANGE IS SPECIFIED AT LEAST 50% OF PLANTS PROVIDED SHALL BE OF THE LARGER SIZE.
- CONTRACTOR TO REMOVE TREE STAKES AFTER ONE GROWING SEASON.
- ALL PLANT MATERIAL MUST BE INSPECTED BY LA PRIOR TO PLANTING.

**LAYOUT NOTES**

- MILONE AND MACBROOM INC. ACCEPTS NO RESPONSIBILITY FOR MAPS AND DATA THAT HAVE BEEN PREPARED AND SUPPLIED BY OTHERS.
- LAYOUT CRITERIA AND DIMENSIONS FOR BUILDINGS ARE NOT SHOWN ON THIS PLAN. ALL BUILDINGS SHALL BE LOCATED BY A CONNECTICUT LICENSED SURVEYOR AND COORDINATED WITH THE FOUNDATION PLANS SUPPLIED BY THE ARCHITECT OR THEIR CONSULTANT. ALL FOUNDATION PLANS SHALL BE PROVIDED TO THE SURVEYOR AND THE ENGINEER AT THE TIME OF STAKE-OUT REQUEST.
- CONCRETE SIDEWALKS, ENTRY AREAS, AND TERRACES SHALL INCORPORATE EXPANSION JOINTS, SCORE JOINTS, AND CONSTRUCTION JOINTS PER THE SPECIFICATIONS AND DETAILS, TYPICALLY NO MORE THAN 144 SQUARE FEET SHALL CONSTITUTE A CONTIGUOUS SLAB. SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR JOINTING PERTAINING TO THESE DISCIPLINES.
- ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- FOR DETAILED INFORMATION PERTAINING TO PROPOSED BUILDINGS, AND ASSOCIATED ARCHITECTURAL WALLS REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- ALL PROPOSED CURBING SHALL BE CONCRETE UNLESS OTHERWISE NOTED.
- WHERE WALK AND PAVED DRIVE ARE SPECIFIED TO BE FLUSH, A FLUSH (FULL DEPTH) CONCRETE CURB SHALL ALSO BE INSTALLED.

**SEED MIX SCHEDULE**

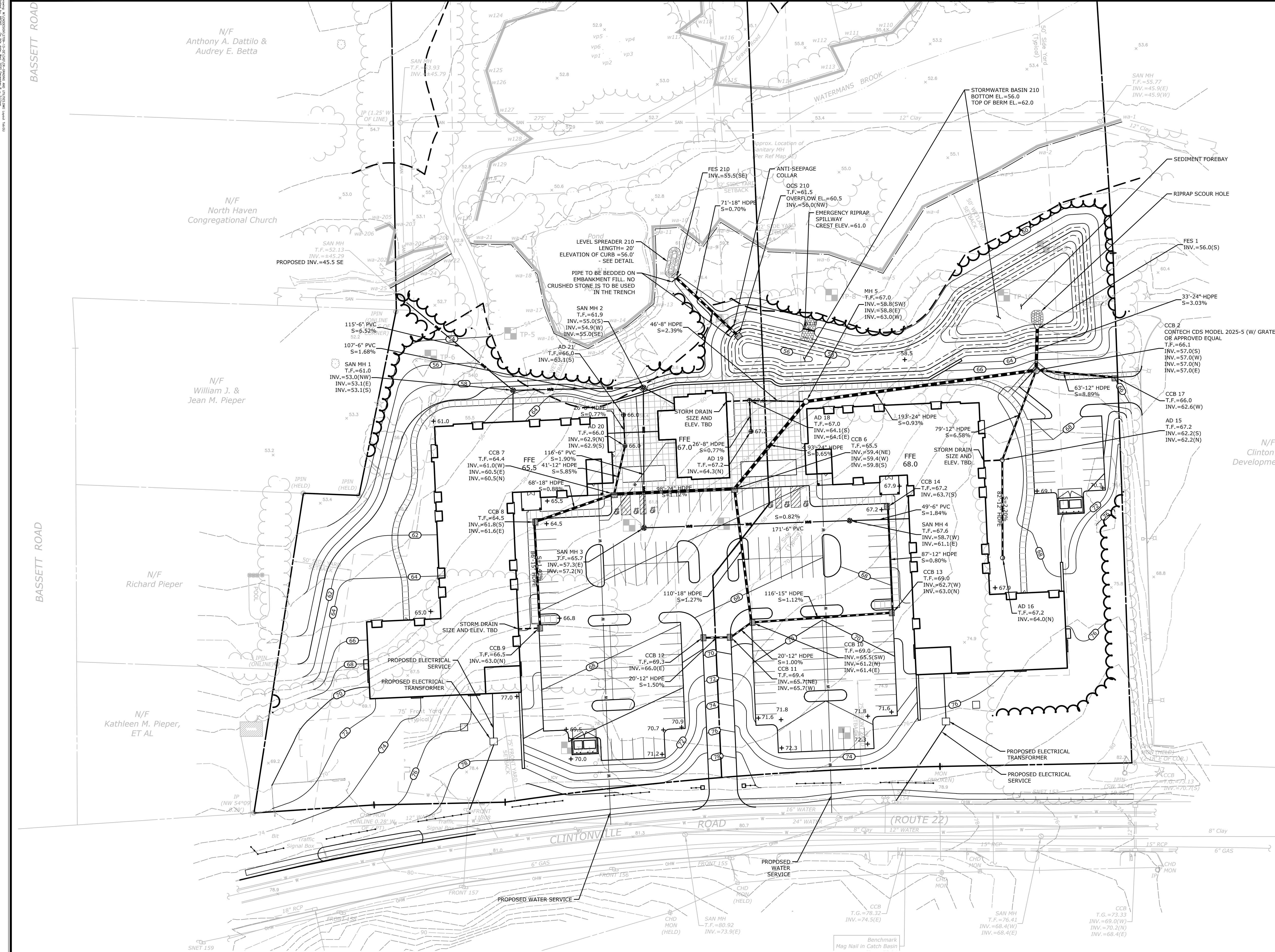
NEW ENGLAND EROSION CONTROL/RESTORATION MIX 9,836 sf  
 FOR DETENTION BASINS AND MOIST SITES  
 Seed Rate: 1lb/1,250 SF (35 lbs/acre)

- Andropogon gerardii / Big Blue Stem
- Asclepias syriaca / Common Milkweed
- Aster novae-angliae / New England Aster
- Chamaecrista fasciculata / Prairie Senna
- Elymus virginicus / Virginia Wild Rye
- Eupatorium maculatum / Joe Pye Weed
- Euthamia graminifolia / Grass Leaved Golden Rod
- Festuca rubra / Red Fescue
- Juncus effusus / Soft Rush
- Panicum virgatum / Switch Grass
- Schizachyrium scoparium / Little Bluestem Grass
- Scirpus atrovirens / Dark Green Bulrush
- Scirpus cyperinus / Wool Grass
- Symphoricarum novae-angliae / New England Aster
- Verbena hastata / Blue Vervain

**PLANT SCHEDULE**

TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONT.	COMMENTS
AC	9	Abies concolor	White Fir	6' / 7' HT.	B&B	FULL & DENSE
AR	34	Acer rubrum 'October Glory'	October Glory Maple	3.0" Cal.	B&B	6' MIN. BRANCH HEIGHT
BN	11	Betula nigra	River Birch Multi-Trunk	B&B	8' / 10' HT.	
CK	7	Cornus kousa	Kousa Dogwood	2"-2.5" Cal.	B&B	6' MIN. BRANCH HEIGHT
GS	8	Gleditsia triacanthos 'Skyline'	Skyline Honey Locust	3.0" Cal.	B&B	6' MIN. BRANCH HEIGHT
PA	19	Picea abies	Norway Spruce	6' / 7' HT.	B&B	FULL & DENSE
TG	11	Tilia cordata 'Greenspire'	Greenspire Littleleaf Linden	3.0" Cal.	B&B	6' MIN. BRANCH HEIGHT
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONT.	COMMENTS
CAZ	78	Cornus amomum	Silky Dogwood	---	#2	
LB	72	Lindera benzoin	Spicebush	---	#2	
VL	63	Viburnum lentago	Nannyberry	---	#3	



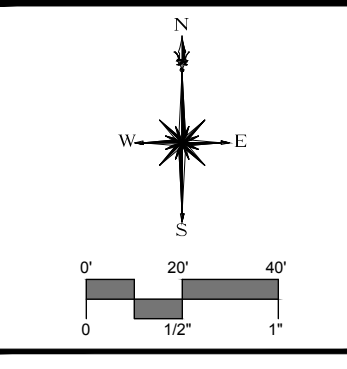


### STORM WATER MAINTENANCE PROGRAM

UPON SITE DEVELOPMENT, THERE WILL BE A NEED TO PERIODICALLY MAINTAIN STORMWATER SYSTEMS ON THE PROPERTY. THE STORMWATER SYSTEM CONSISTS OF PIPING AND CATCH BASINS.

IN ORDER TO ENSURE OPTIMAL PERFORMANCE OF THE SYSTEM, THE FOLLOWING STORMWATER MAINTENANCE PROGRAM HAS BEEN ESTABLISHED. THE PROPERTY OWNER WILL BE RESPONSIBLE FOR IMPLEMENTATION OF THIS PROGRAM. A LOG OF ALL INSPECTIONS, CLEANING AND REPAIRS SHALL BE MAINTAINED BY THE PROPERTY OWNER AND BE AVAILABLE FOR REVIEW.

- A. CATCH BASINS/YARD DRAINS/AREA DRAINS
  - CATCH BASINS ARE DESIGNED WITH 2-FOOT MINIMUM DEPTH SUMPS FOR THE PURPOSE OF COLLECTING COARSE SEDIMENT. ALL CATCH BASINS SHOULD BE INSPECTED TWO TIMES PER YEAR, TYPICALLY WHEN THE SITE IS SWEEPED IN THE SPRING AFTER WINTER SANDING AND IN THE FALL AFTER ALL THE LEAVES HAVE FALLEN. SITE SWEEPING SHALL BE PROVIDED BETWEEN APRIL 15 AND MAY 15 EACH SPRING.
  - SEDIMENT SHOULD BE REMOVED WHEN IT EXTENDS TO WITHIN 6 INCHES OF THE OUTLET PIPE INVERT OR NOT LESS THAN ONCE PER YEAR. CLEANOUT WITH A VACUUM TRUCK IS GENERALLY THE BEST AND MOST CONVENIENT METHOD. THE SEDIMENT SHALL BE DISPOSED OF IN AN APPROVED OFF-SITE LOCATION IN ACCORDANCE WITH TOWN AND STATE REQUIREMENTS.
- B. PAVEMENT SWEEPING
  - THE PARKING AREA AND ROADWAY SHALL BE SWEEPED ANNUALLY. SWEEPING SHOULD OCCUR IN THE SPRING AFTER WINTER SANDING, BETWEEN APRIL 15 AND MAY 15.
- C. STORMWATER BASIN
  - MOWING: THE UPPER STAGE, SIDE SLOPES, AND EMBANKMENT OF STORMWATER POND MUST BE MOWED AT LEAST ONCE PER YEAR TO DISCOURAGE WOODY GROWTH AND CONTROL WEEDS. AREAS THAT LIE WITHIN THE UPLAND REVIEW AREA ARE NOT TO BE MOWN BUT MUST BE MONITORED YEARLY FOR WOODY GROWTH. IF PRESENT, WOODY GROWTH TO BE REMOVED BY HAND.
  - INSPECTIONS: BASIN SHOULD BE INSPECTED TWICE PER YEAR (SPRING AND FALL) TO ENSURE THAT THE STRUCTURE OPERATES IN THE MANNER ORIGINALLY INTENDED. WHEN POSSIBLE, INSPECTIONS SHOULD BE CONDUCTED DURING WET WEATHER TO DETERMINE IF THE BASIN IS MEETING THE TARGETED DETENTION TIMES PER APPROVED DESIGN. IN PARTICULAR, THE OUTLET CONTROL DEVICE SHOULD BE REGULARLY INSPECTED FOR EVIDENCE OF CLOGGING OR, CONVERSELY, FOR TOO RAPID A RELEASE, AND THE FLOW PATH SHOULD BE CHECKED FOR EROSION PROBLEMS. OTHER PROBLEMS THAT SHOULD BE CHECKED FOR INCLUDE SUBSIDENCE, OUTLET WATER TURBIDITY, BANK/BED/OUTLET EROSION, CRACKING, OR TREE GROWTH ON THE EMBANKMENT; THE ACCUMULATION OF SEDIMENT AROUND THE OUTLET; THE ADEQUACY OF UPSTREAM/DOWNSTREAM CHANNEL EROSION CONTROL MEASURES; AND MODIFICATIONS TO THE BASIN OR ITS CONTRIBUTING WATERSHED THAT MAY INFLUENCE BASIN PERFORMANCE. INSPECTIONS SHOULD BE CARRIED OUT WITH DESIGN PLANS IN HAND.
  - DEBRIS AND LITTER REMOVAL: DEBRIS AND LITTER WILL ACCUMULATE NEAR THE OUTLET CONTROL DEVICE AND SHOULD BE REMOVED DURING REGULAR INSPECTION AND/OR MOWING OPERATIONS. PARTICULAR ATTENTION SHOULD BE PAID TO FLOATABLE DEBRIS THAT COULD EVENTUALLY CLOG THE CONTROL DEVICE OR RISER.
  - SEDIMENT REMOVAL: WHEN PROPERLY DESIGNED, DETENTION/WATER QUALITY BASINS WILL ACCUMULATE SEDIMENT OVER TIME. HOWEVER, MOST OF THE SEDIMENT WILL BE TRAPPED IN THE SEDIMENT CHAMBERS AND CATCH BASIN SUMP UNITS BEFORE REACHING THE BASIN. THE REMAINDER WILL ACCUMULATE IN THE STORMWATER POND. ACCUMULATED SEDIMENT MUST BE REMOVED FROM THE BASIN EVERY 5 YEARS, AFTER ONE HALF (1/2) OF THE SEDIMENT STORAGE CAPACITY IN THE FOREBAY HAS BEEN FILLED, AFTER 4 INCHES OF SEDIMENT HAS ACCUMULATED IN THE MAIN PORTION OF THE BASIN, OR WHEN SIGNIFICANT ALGAL GROWTH IS OBSERVED. A PERMANENT MEASURING DEVICE SHALL BE INSTALLED IN THE MIDDLE OF THE FOREBAY AND IN THE MAIN PORTION OF THE BASIN. THE MARKER SHALL DELINEATE INCHES UP FROM THE BOTTOM OF THE BASIN SO THE DEPTH OF SEDIMENT CAN EASILY BE MEASURED. MORE FREQUENT SPOT CLEANOUTS MAY BE NEEDED AROUND THE OUTLET CONTROL DEVICE OR THE SEDIMENT FOREBAY.
  - SEDIMENT REMOVAL OPERATIONS ARE RELATIVELY SIMPLE. FRONT-END LOADERS, BACKHOES, OR VACUUM TRUCKS CAN BE USED TO REMOVE THE ACCUMULATED SEDIMENT FOLLOWED BY MANUAL REMOVAL OF SEDIMENT DEPOSITED AROUND THE OUTLET CONTROL DEVICE. THE SEDIMENT SHALL BE DISPOSED OF IN AN APPROVED OFF-SITE LOCATION IN ACCORDANCE WITH TOWN AND STATE REQUIREMENTS. THE DISTURBED AREA SHOULD BE IMMEDIATELY SEED WITH APPROPRIATE GRASS. SEED AND MULCH WITH HAY AFTER REMOVAL OPERATIONS ARE COMPLETED TO PREVENT THE OUTLET CONTROL DEVICE FROM CLOGGING.
- D. PROPRIETARY HYDRODYNAMIC SEPARATOR
  - BEFORE BEING DISCHARGED TO THE STORMWATER BASIN, STORMWATER RUNOFF FROM THE ROADWAY AND BUILDING WILL BE DIRECTED TO A HYDRODYNAMIC SEPARATOR. THIS STRUCTURE WILL REMOVE SUSPENDED SOLIDS, DEBRIS AND FLOATABLES CONSTITUENTS FROM STORMWATER. OIL, SCUM, AND SEDIMENT WILL EVENTUALLY ACCUMULATE AND CAN BE REMOVED THROUGH A MANHOLE LOCATED AT THE TOP OF THE SEPARATOR. THIS STRUCTURE WILL BE MAINTAINED YEARLY, OR MORE FREQUENTLY AS REQUIRED. THE UNIT SHOULD BE INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. WASTE MATERIAL WILL BE PROPERLY DISPOSED OF OFF THE SITE.
- E. LAWN AND VEGETATED AREAS
  - VEGETATED COVER SHALL BE MAINTAINED ON ALL EARTH SURFACES TO MINIMIZE SOIL EROSION. USE OF FERTILIZER SHOULD BE MINIMIZED AND APPLIED USING PRUDENT ORGANIC APPLICATION PROCESSES/METHODS.
- F. ROOF GUTTERS
  - REMOVE ACCUMULATED DEBRIS AND INSPECT FOR CLOGGING AND/OR DAMAGE AT LEAST ONCE A YEAR, TYPICALLY IN THE FALL AFTER THE LEAVES HAVE FALLEN. ANY DAMAGE SHOULD BE REPAIRED AS REQUIRED.
- G. AFTER COMPLETION OF CONSTRUCTION THE PROPERTY OWNERS WILL ASSUME RESPONSIBILITY FOR OPERATION AND MAINTENANCE PLAN.

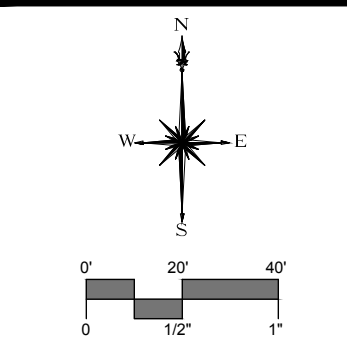
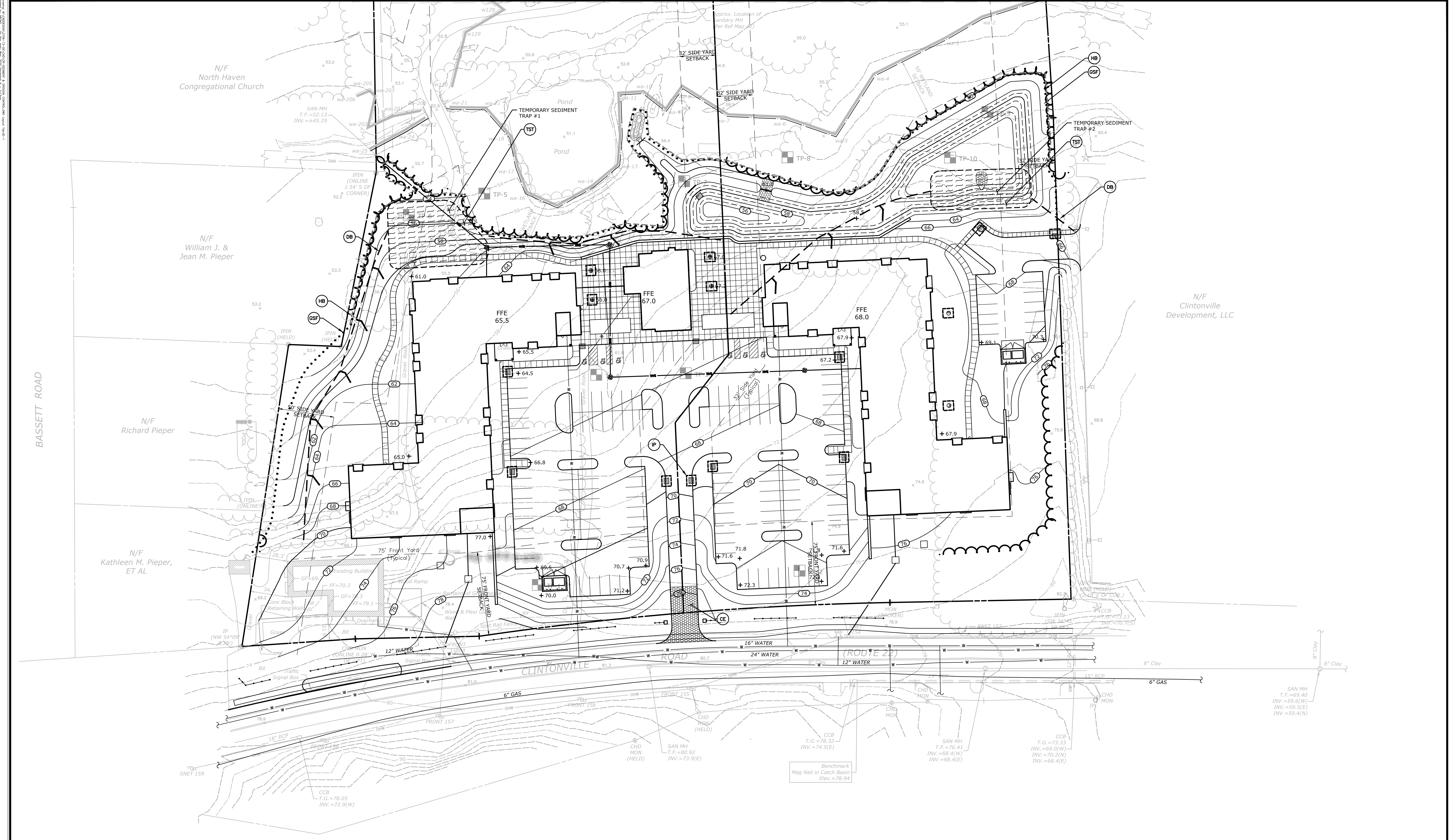


DESCRIPTION	DATE	BY
TOWN COMMENTS	12/28/2020	AUS

**SITE PLAN - GRADING AND UTILITIES**  
**PROPOSED ELDERLY HOUSING DEVELOPMENT**  
 343 CLINTONVILLE ROAD (RT. 22)  
 NORTH HAVEN, CONNECTICUT

KVN	ADS	RJM
DESIGNED	DRAWN	CHECKED
SCALE: 1"=40'		
DATE: OCTOBER 27, 2020		
PROJECT NO.: 2709-13		
SHEET NO.: 04 OF 11		
<b>GU</b>		





**MILONE & MACBROOM**  
 NOW PART OF SLR  
 88 BEAUFORT DRIVE  
 CHESHIRE, CT 06410  
 203.271.1773  
 WWW.MMNC.COM

DESCRIPTION	DATE	BY
TOWN COMMENTS	12/8/2020	AUS

**SITE PLAN - SEDIMENT AND EROSION CONTROLS**  
**PROPOSED ELDERLY HOUSING DEVELOPMENT**  
 343 CLINTONVILLE ROAD (RT. 22)  
 NORTH HAVEN, CONNECTICUT

ADS	STN	RJM
DESIGNED	DRAWN	CHECKED

SCALE: 1"=40'  
 DATE: OCTOBER 27, 2020  
 PROJECT NO.: 2709-13  
 SHEET NO.: 05 OF 11  
**SE-1**

**SOIL EROSION AND SEDIMENT CONTROL NARRATIVE**

SEDIMENT AND EROSION CONTROL MEASURES AS DEPICTED ON THESE PLANS AND DESCRIBED WITHIN THE SEDIMENT AND EROSION CONTROL NARRATIVE SHALL BE IMPLEMENTED AND MAINTAINED UNTIL PERMANENT COVER AND STABILIZATION IS ESTABLISHED. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL CONFORM TO THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, CONNECTICUT - 2002, TOWN OF NORTH HAVEN REQUIREMENTS, AND IN ALL CASES BEST MANAGEMENT PRACTICES SHALL PREVAIL.

1. PURPOSE AND DESCRIPTION OF PROJECT  
 A.) THE CONSTRUCTION OF 2 APARTMENT STYLE BUILDINGS WITH THE ASSOCIATED INFRASTRUCTURE  
 B.) DISTURBED AREA: ±6.5 AC.

2. IDENTIFICATION OF EROSION AND SEDIMENT CONTROL CONCERNS  
 A.) CUTS AND FILLS ASSOCIATED WITH CONSTRUCTION  
 B.) PROTECTION OF ON- AND OFFSITE DRAINAGE SYSTEMS  
 C.) PROTECTION OF ON SITE WETLAND

3. IDENTIFICATION OF OTHER POSSIBLE PERMITS  
 THE PERMITS REQUIRED FOR THE PROJECT ARE LOCAL INLAND WETLANDS, PLANNING AND ZONING PERMITS. CONNECTICUT STORM WATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITIES

#	ACRES	TEMPORARY SEDIMENT TRAP SIZING SUMMARY		LENGTH X WIDTH	VOLUME PROVIDED
		VOLUME STORAGE REQUIRED	DEPTH STORAGE REQUIRED		
#1	3.59	482 CY	3.0 FT.	60 FT. X 75 FT.	500 CY
#2	1.99	267 CY	3.0 FT.	30 FT. X 90 FT.	300 CY

\*134 CY STORAGE VOLUME REQUIRED PER ACRE CONTRIBUTING AREA TO TST

**EROSION CONTROL LEGEND**

- ..... GSF SEDIMENT FILTER FENCE
- IP INLET PROTECTION
- ▨ CE CONSTRUCTION ENTRANCE (50 L.F. MIN.)
- ⊙ STK SOIL STOCKPILE AREA
- ▤ TST TEMPORARY SEDIMENT TRAP
- ⊖ HB HAY BALE
- DB DIVERSION BERM
- ⊘ SCD STONE CHECK DAM

## SEDIMENT & EROSION CONTROL SPECIFICATIONS

THESE GUIDELINES SHALL APPLY TO ALL WORK CONSISTING OF ANY AND ALL TEMPORARY AND/OR PERMANENT MEASURES TO CONTROL WATER POLLUTION AND SOIL EROSION, AS MAY BE REQUIRED, DURING THE CONSTRUCTION OF THE PROJECT.

IN GENERAL, ALL CONSTRUCTION ACTIVITIES SHALL PROCEED IN SUCH A MANNER SO AS NOT TO POLLUTE ANY WETLANDS, WATERCOURSE, WATER BODY, AND CONDUIT CARRYING WATER, ETC. THE CONTRACTOR SHALL LIMIT, INsofar AS POSSIBLE, THE SURFACE AREA OF EARTH MATERIALS EXPOSED BY CONSTRUCTION METHODS AND IMMEDIATELY PROVIDE PERMANENT AND TEMPORARY POLLUTION CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT WETLANDS, WATERCOURSES, AND WATER BODIES, AND TO PREVENT, INsofar AS POSSIBLE, EROSION ON THE SITE.

## LAND GRADING

1. THE RESHAPING OF THE GROUND SURFACE BY EXCAVATION AND FILLING OR A COMBINATION OF BOTH, TO OBTAIN PLANNED GRADES, SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING CRITERIA:

- THE PERMANENT CUT FACE OF EARTH EXCAVATION SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
- THE PERMANENT EXPOSED FACES OF EARTHEN FILLS SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
- THE CUT FACE OF ROCK EXCAVATION SHALL NOT BE STEEPER THAN ONE HORIZONTAL TO FOUR VERTICAL (1:4).
- PROVISION SHOULD BE MADE TO CONDUCT SURFACE WATER SAFELY TO STORM DRAINS TO PREVENT SURFACE RUNOFF FROM DAMAGING CUT FACES AND FILL SLOPES.
- EXCAVATIONS SHOULD NOT BE MADE SO CLOSE TO PROPERTY LINES AS TO ENDANGER ADJOINING PROPERTY WITHOUT PROTECTING SUCH PROPERTY FROM EROSION, SLIDING, SETTLING, OR CRACKING.
- NO FILL SHOULD BE PLACED WHERE IT WILL SLIDE OR WASH UPON THE PREMISES OF ANOTHER OWNER OR UPON ADJACENT WETLANDS, WATERCOURSES, OR WATER BODIES.
- PRIOR TO ANY REGRADING, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PLACED AT THE ENTRANCE TO THE WORK AREA IN ORDER TO REDUCE MUD AND OTHER SEDIMENTS FROM LEAVING THE SITE.

## TOPSOILING

GENERAL:

- TOPSOIL SHALL BE SPREAD OVER ALL EXPOSED AREAS IN ORDER TO PROVIDE A SOIL MEDIUM HAVING FAVORABLE CHARACTERISTICS FOR THE ESTABLISHMENT, GROWTH, AND MAINTENANCE OF VEGETATION.
- UPON ATTAINING FINAL UPGRADES, SCARIFY SURFACE TO PROVIDE A GOOD BOND WITH TOPSOIL.
- REMOVE ALL LARGE STONES, TREE LIMBS, ROOTS AND CONSTRUCTION DEBRIS.
- APPLY LIME ACCORDING TO SOIL TEST OR AT THE RATE OF TWO (2) TONS PER ACRE.

MATERIAL:

- TOPSOIL SHOULD HAVE PHYSICAL, CHEMICAL, AND BIOLOGICAL CHARACTERISTICS FAVORABLE TO THE GROWTH OF PLANTS.
- TOPSOIL SHOULD HAVE A SANDY OR LOAMY TEXTURE.
- TOPSOIL SHOULD BE RELATIVELY FREE OF SUBSOIL MATERIAL AND MUST BE FREE OF STONES (OVER 1" IN DIAMETER), LUMPS OF SOIL, ROOTS, TREE LIMBS, TRASH, OR CONSTRUCTION DEBRIS. IT SHOULD BE FREE OF ROOTS OR RHIZOMES SUCH AS THISTLE, KNOTGRASS, AND QUAKERS.
- AN ORGANIC MATTER CONTENT OF SIX PERCENT (6%) IS REQUIRED. AVOID LIGHT COLORED SUBSOIL MATERIAL.
- SOLUBLE SALT CONTENT OF OVER 500 PARTS PER MILLION (PPM) IS LESS SUITABLE. AVOID TIDAL MARSH SOILS BECAUSE OF HIGH SALT CONTENT AND SULFUR ACIDITY.
- THE pH SHOULD BE MORE THAN 6.0. IF LESS, ADD LIME TO INCREASE pH TO AN ACCEPTABLE LEVEL.

APPLICATION:

- AVOID SPREADING WHEN TOPSOIL IS WET OR FROZEN.
- SPREAD TOPSOIL UNIFORMLY TO A DEPTH OF AT LEAST SIX INCHES (6") OR TO THE DEPTH SHOWN ON THE LANDSCAPING PLANS.

## TEMPORARY VEGETATIVE COVER

GENERAL:

- TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED ON ALL UNPROTECTED AREAS THAT PRODUCE SEDIMENT, AREAS WHERE FINAL GRADING HAS BEEN COMPLETED, AND AREAS WHERE THE ESTIMATED PERIOD OF BARE SOIL EXPOSURE IS MORE THAN 30 DAYS. AREAS TO BE LEFT EXPOSED FOR MORE THAN 30 DAYS SHALL BE SEEDED WITHIN 7 DAYS OF SUSPENSION OF CONSTRUCTION ACTIVITIES. TEMPORARY VEGETATIVE COVER SHALL BE APPLIED IF AREAS WILL NOT BE PERMANENTLY SEEDED BY SEPTEMBER 1.

SITE PREPARATION:

- INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
- REMOVE LOOSE ROCK, STONE, AND CONSTRUCTION DEBRIS FROM AREA.
- APPLY LIME ACCORDING TO SOIL TEST OR AT A RATE OF ONE (1) TON OF GROUND DOLOMITIC LIMESTONE PER ACRE (5 LBS. PER 100 SQ. FT.).
- APPLY FERTILIZER ACCORDING TO SOIL TEST OR AT THE RATE OF 300 LBS. OF 10-10-10 PER ACRE (7 LBS. PER 1,000 SQ. FT.) AND SECOND APPLICATION OF 200 LBS. OF 10-10-10 (5 LBS. PER 1,000 SQ. FT.) WHEN GRASS IS FOUR INCHES (4") TO SIX INCHES (6") HIGH. APPLY ONLY WHEN GRASS IS DRY.
- UNLESS HYDROSEEDING, WORK IN LIME AND FERTILIZER TO A DEPTH OF FOUR (4") INCHES USING A DISK OR ANY SUITABLE EQUIPMENT.
- TILLAGE SHOULD ACHIEVE A REASONABLY UNIFORM LOOSE SEEDBED. WORK ON CONTOUR IF SITE IS SLOPING.

ESTABLISHMENT:

- SELECT APPROPRIATE SPECIES FOR THE SITUATION. NOTE RATES AND SEEDING DATES (SEE VEGETATIVE COVER SELECTION & MULCHING SPECIFICATION BELOW).
- APPLY SEED UNIFORMLY ACCORDING TO THE RATE INDICATED BY BROADCASTING, DRILLING, OR HYDRAULIC APPLICATION.
- UNLESS HYDROSEEDING, COVER RYEGRASS SEEDS WITH NOT MORE THAN 1/4 INCH OF SOIL USING SUITABLE EQUIPMENT.
- MULCH IMMEDIATELY AFTER SEEDING IF REQUIRED. (SEE VEGETATIVE COVER SELECTION & MULCHING SPECIFICATION BELOW.) APPLY STRAW OR HAY MULCH AND ANCHOR TO SLOPES GREATER THAN 3% OR WHERE CONCENTRATED FLOW WILL OCCUR.

## PERMANENT VEGETATIVE COVER

GENERAL:

- PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED AS VARIOUS SECTIONS OF THE PROJECT ARE COMPLETED IN ORDER TO STABILIZE THE SOIL, REDUCE DOWNSTREAM DAMAGE FROM SEDIMENT AND RUNOFF, AND TO ENHANCE THE AESTHETIC NATURE OF THE SITE. IT WILL BE APPLIED TO ALL CONSTRUCTION AREAS SUBJECT TO EROSION WHERE FINAL GRADING HAS BEEN COMPLETED AND A PERMANENT COVER IS NEEDED SHALL BE SEEDED WITHIN 7 DAYS OF ESTABLISHMENT OF FINAL GRADES.

SITE PREPARATION:

- INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
- REMOVE LOOSE ROCK, STONE, AND CONSTRUCTION DEBRIS FROM AREA.
- PERFORM ALL PLANTING OPERATIONS PARALLEL TO THE CONTOURS OF THE SLOPE.
- APPLY TOPSOIL AS INDICATED ELSEWHERE HEREIN.
- APPLY FERTILIZER ACCORDING TO SOIL TEST OR:
  - SPREAD SEEDING: WORK DEEPLY IN SOIL, BEFORE SEEDING, 300 LBS. OF 10-10-10 FERTILIZER PER ACRE (7 LBS. PER 1,000 SQ. FT.); THEN SIX (6) TO EIGHT (8) WEEKS LATER, APPLY ON THE SURFACE AN ADDITIONAL 300 LBS. OF 10-10-10 FERTILIZER PER ACRE. AFTER SEPTEMBER 1, TEMPORARY VEGETATIVE COVER SHALL BE APPLIED.
  - FALL SEEDING: WORK DEEPLY IN SOIL, BEFORE SEEDING, 600 LBS. OF 10-10-10 FERTILIZER PER ACRE (14 LBS. PER 1,000 SQ. FT.).

## VEGETATIVE COVER SELECTION & MULCHING

TEMPORARY VEGETATIVE COVER:

PERENNIAL RYEGRASS 3 LBS./1,000 SQ. FT. (LOLIUM PERENNE)

\* PERMANENT VEGETATIVE COVER:

BARON KENTUCKY BLUEGRASS 60%  
JAMESTOWN II CHEWINGS FESCUE 20%  
PALMER PERENNIAL RYEGRASS 20%

\* LOFTS - "TRIPLEX GENERAL" MIX OR APPROVED EQUAL. RECOMMENDED TIME SEEDING: 5 LB./1000 S.F. SEEDING RATE.

SPRING SEEDING: 4/1 to 5/31

FALL SEEDING: 8/16 to 10/15

TEMPORARY MULCHING:

STRAY OR HAY 70-90 LBS./1,000 SQ. FT. (TEMPORARY VEGETATIVE AREAS)

WOOD FIBER IN HYDROMULCH SLURRY 25-50 LBS./1,000 SQ. FT.

ESTABLISHMENT:

- SMOOTH AND FIRM SEEDBED WITH CULTIPACKER OR OTHER SIMILAR EQUIPMENT PRIOR TO SEEDING (EXCEPT WHEN HYDROSEEDING).
- SELECT ADAPTED SEED MIXTURE FOR THE SPECIFIC SITUATION. NOTE RATES AND THE SEEDING DATES (SEE VEGETATIVE COVER SELECTION & MULCHING SPEC. BELOW).
- APPLY SEED UNIFORMLY ACCORDING TO RATE INDICATED, BY BROADCASTING, DRILLING, OR HYDRAULIC APPLICATION.
- COVER GRASS AND LEGUME SEED WITH NOT MORE THAN 1/4 INCH OF SOIL WITH SUITABLE EQUIPMENT (EXCEPT WHEN HYDROSEEDING).
- MULCH IMMEDIATELY AFTER SEEDING, IF REQUIRED, ACCORDING TO TEMPORARY MULCHING SPECIFICATIONS. (SEE VEGETATIVE COVER SELECTION & MULCHING SPECIFICATION BELOW).
- USE PROPER INOCULANT ON ALL LEGUME SEEDINGS, USE FOUR (4) TIMES NORMAL RATES WHEN HYDROSEEDING.
- USE SOO WHERE THERE IS A HEAVY CONCENTRATION OF WATER AND IN CRITICAL AREAS WHERE IT IS IMPORTANT TO GET A QUICK VEGETATIVE COVER TO PREVENT EROSION.

MAINTENANCE:

- TEST FOR SOIL ACIDITY LIME AS REQUIRED.
- ON SITES WHERE GRASSES PREDOMINATE, BROADCAST ANNUALLY 500 POUNDS OF 10-10-10 FERTILIZER PER ACRE (12 LBS. PER 1,000 SQ. FT.) OR AS NEEDED ACCORDING TO ANNUAL SOIL TESTS.
- ON SITES WHERE LEGUMES PREDOMINATE, BROADCAST AS INDICATED BY SOIL TEST 300 POUNDS OF 0-20-20 OR EQUIVALENT PER ACRE (8 LBS PER 1,000 SQ. FT.).

## EROSION CHECKS

GENERAL:

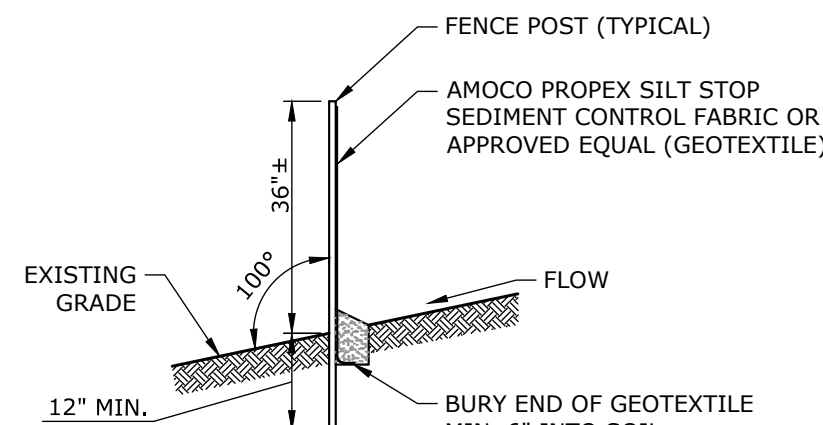
- TEMPORARY PERVIOUS BARRIERS USING BALES OF HAY OR STRAW, HELD IN PLACE WITH STAKES DRIVEN THROUGH THE BALES AND INTO THE GROUND OR GEOTEXTILE FABRIC FASTENED TO A FENCE POST AND BURIED INTO THE GROUND, SHALL BE INSTALLED AND MAINTAINED AS REQUIRED TO CHECK EROSION AND REDUCE SEDIMENTATION.

CONSTRUCTION:

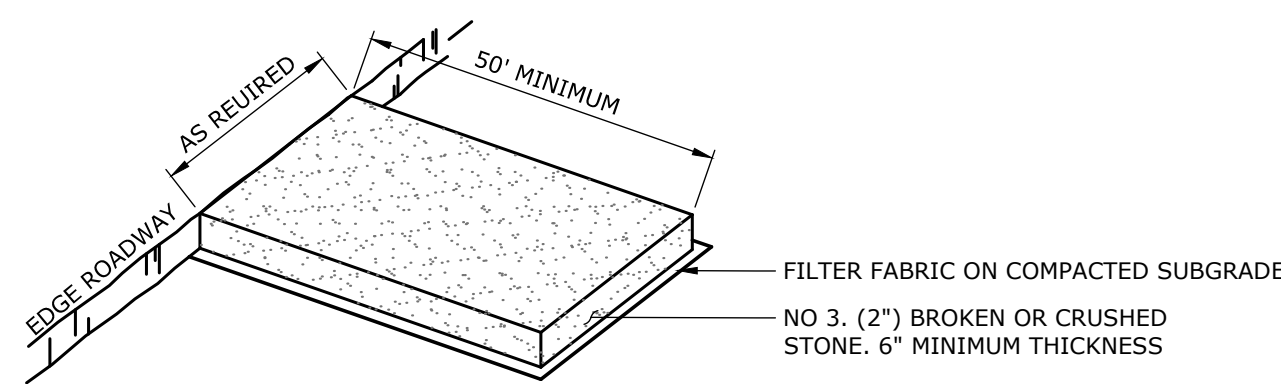
- BALES SHOULD BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
- EACH BALE SHALL BE EMBEDDED INTO THE SOIL A MINIMUM OF FOUR (4") INCHES.
- BALES SHALL BE SECURELY ANCHORED IN PLACE BY WOOD STAKES OR REINFORCEMENT BARS DRIVEN THROUGH THE BALES AND INTO THE GROUND. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD THE PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
- GEOTEXTILE FABRIC SHALL BE SECURELY ANCHORED AT THE TOP OF A THREE FOOT (3") HIGH FENCE AND BURIED A MINIMUM OF FOUR INCHES (4") TO THE SOIL. SEAMS BETWEEN SECTIONS OF FILTER FABRIC SHALL OVERLAP A MINIMUM OF TWO FEET (2').

INSTALLATION AND MAINTENANCE:

- BALED HAY EROSION BARRIERS SHALL BE INSTALLED AT ALL STORM SEWER INLETS.
- BALED HAY EROSION BARRIERS AND GEOTEXTILE FENCE SHALL BE INSTALLED AT THE LOCATION INDICATED ON THE PLAN AND IN ADDITIONAL AREAS AS MAY BE DEEMED APPROPRIATE DURING CONSTRUCTION.
- ALL EROSION CHECKS SHALL BE MAINTAINED UNTIL ADJACENT AREAS ARE STABILIZED.
- INSPECTION SHALL BE FREQUENT (AT MINIMUM MONTHLY AND BEFORE AND AFTER HEAVY RAIN) AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- EROSION CHECKS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM WATER FLOW OR DRAINAGE.



**SEDIMENT FILTER FENCE**  
NOT TO SCALE

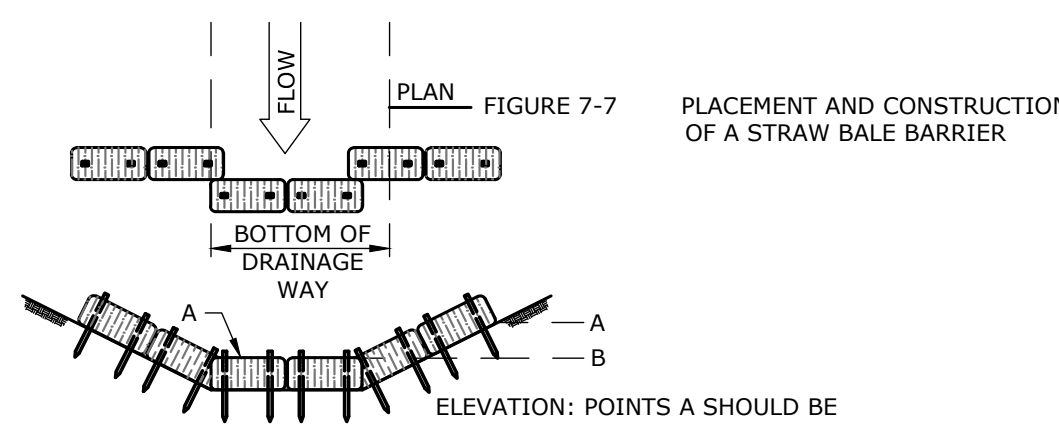
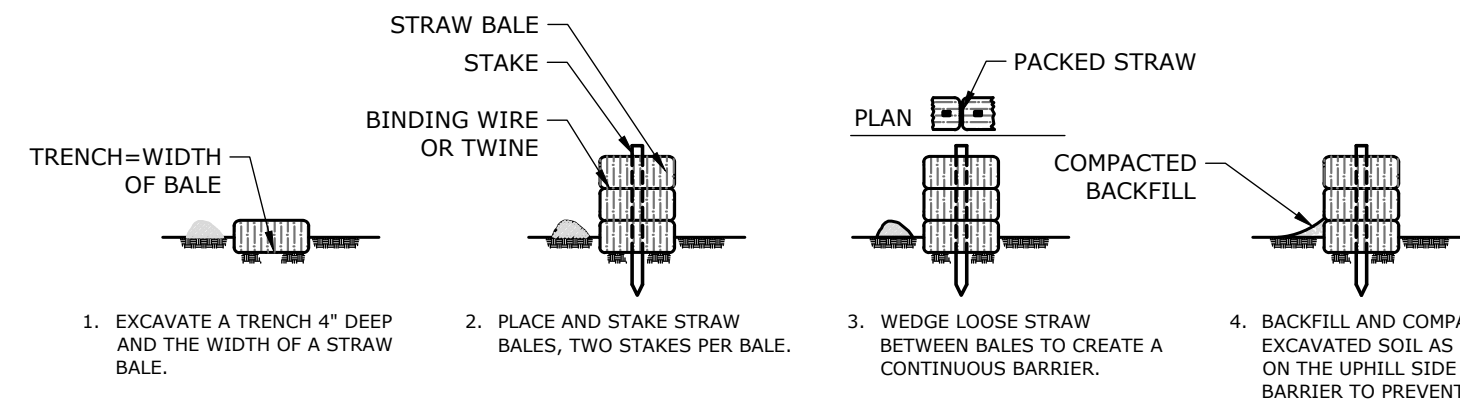


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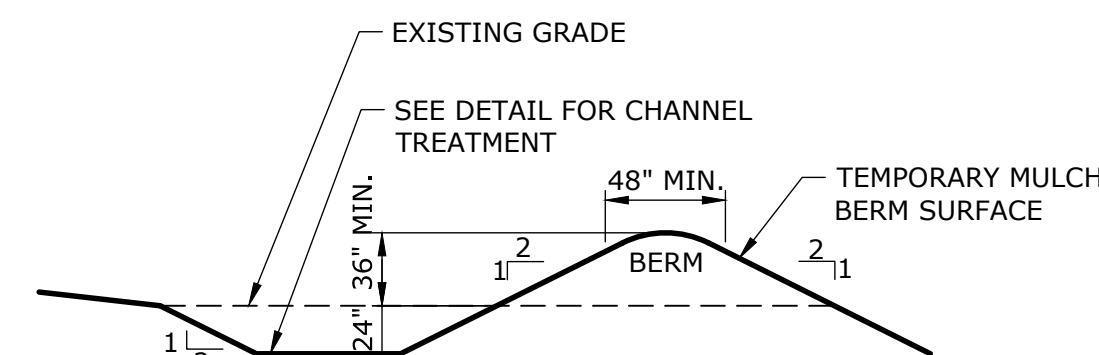
- CONSTRUCTION ENTRANCE PAD SHALL BE INSTALLED AND MAINTAINED DURING OPERATIONS WHICH GENERATE VEHICULAR TRACKING OF MUD.

## CONSTRUCTION ENTRANCE PAD

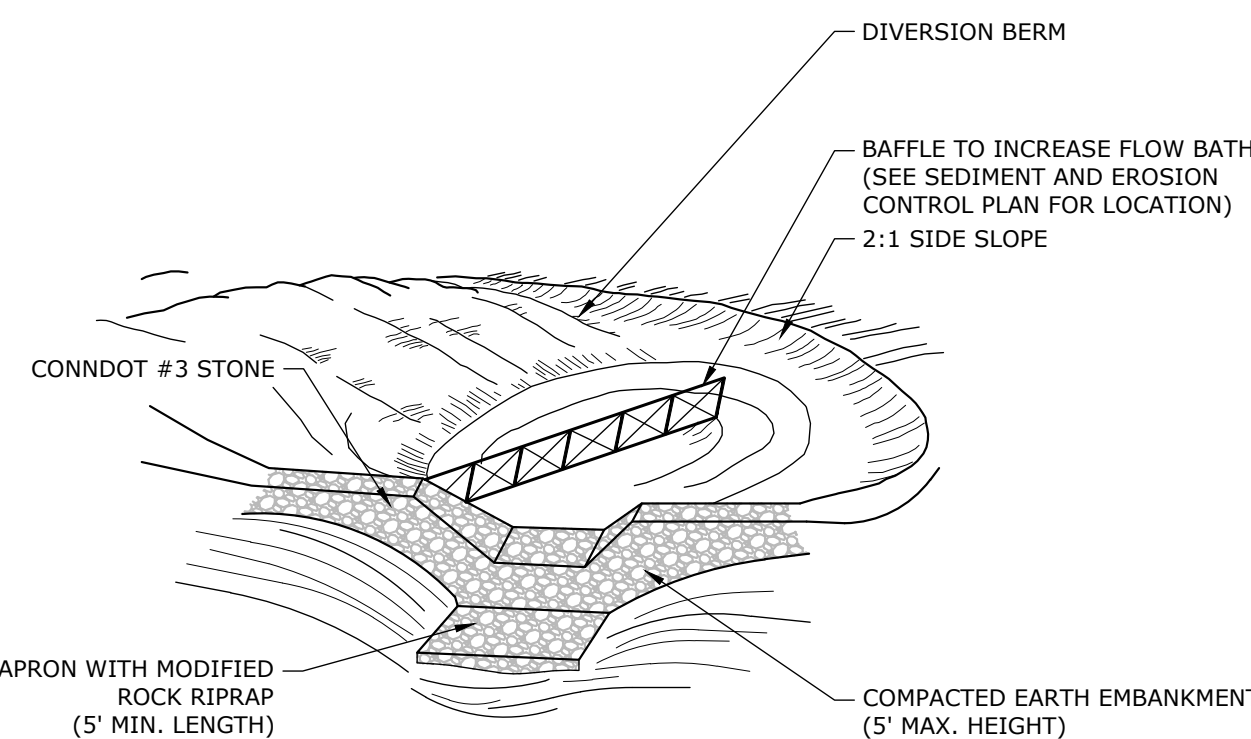
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**PLACEMENT & CONSTRUCTION OF A HAY BALE BARRIER**  
NOT TO SCALE



**TEMPORARY DIVERSION BERM AND SWALE**  
NOT TO SCALE



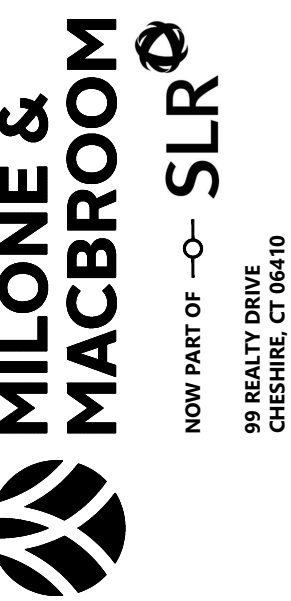
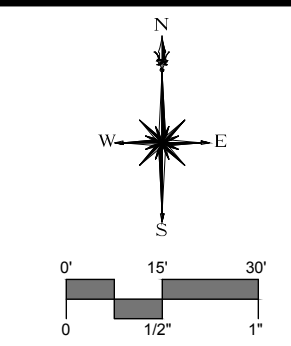
NOTES:

- REFER TO SEDIMENT & EROSION CONTROL PLAN FOR APPROXIMATE DIMENSIONS AND REQUIRED VOLUME.

**TEMPORARY SEDIMENT TRAP**  
NOT TO SCALE

## EROSION CONTROL MAINTENANCE INTERVALS

EROSION CONTROL MEASURE	CONTROL OBJECTIVE	INSPECTION/MAINTENANCE	FAILURE INDICATORS	REMOVAL
TEMPORARY SEDIMENT TRAP (TST)	- DETAIN SEDIMENT-LADEN RUNOFF FROM SMALL DISTURBED AREAS LONG ENOUGH TO ALLOW A MAJORITY OF THE SEDIMENT TO SETTLE OUT.	INSPECT AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL OF 0.5 INCHES OR MORE. STONE OUTLET SHOULD BE AT LEAST 1 FOOT BELOW CREST OF EMBANKMENT. SEDIMENT MUST BE REMOVED WHEN ACCUMULATION REACHES 1/2 OF THE REQUIRED WET STORAGE.	- TURBID WATER - EXCESSIVE SEDIMENT ACCUMULATION - OVERTOPPING EVIDENCE	TST MAY BE REMOVED ONCE THE CONTRIBUTING DRAINAGE AREA IS PERMANENTLY STABILIZED.
SILT FENCE (SF) (RELATED: IP, STK)	- INTERCEPT, AND REDIRECT/DETAINE SMALL AMOUNTS OF SEDIMENT FROM SMALL DISTURBED AREAS. - DECREASE VELOCITY OF SHEET FLOW. - PROTECT SENSITIVE SLOPES OR SOILS FROM EXCESSIVE WATER FLOW.	INSPECT AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL OF 0.5 INCHES OR MORE. ACCUMULATED SEDIMENT MUST BE REMOVED ONCE ITS DEPTH IS EQUAL TO 1/2 THE TRENCH HEIGHT. INSPECT FREQUENTLY DURING PUMPING OPERATIONS IF USED FOR DEWATERING OPERATIONS.	- PHYSICAL DAMAGE OR DECOMPOSITION - EVIDENCE OF OVERTOPPED OR UNDERCUT FENCE - EVIDENCE OF SIGNIFICANT FLOWS EVADING CAPTURE - REPETITIVE FAILURE	SILT FENCE MAY BE REMOVED AFTER UPHILL AND SENSITIVE AREAS HAVE BEEN PERMANENTLY STABILIZED.
HAY BALES (HB)	- INTERCEPT, AND REDIRECT/DETAINE SMALL AMOUNTS OF SEDIMENT FROM SMALL DISTURBED AREAS. - DECREASE VELOCITY OF SHEET FLOW. - PROTECT SENSITIVE SLOPES OR SOILS FROM EXCESSIVE WATER FLOW.	INSPECT AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL OF 0.5 INCHES OR MORE. ACCUMULATED SEDIMENT MUST BE REMOVED ONCE THE DEPTH OF SEDIMENT IS EQUAL TO 1/2 THE HEIGHT OF THE BARRIER. INSPECT FREQUENTLY DURING PUMPING OPERATIONS IF USED FOR DEWATERING OPERATIONS.	- PHYSICAL DAMAGE OR DECOMPOSITION - EVIDENCE OF OVERTOPPED OR UNDERCUT FENCE - EVIDENCE OF SIGNIFICANT FLOWS EVADING CAPTURE - REPETITIVE FAILURE	HAY BALES MAY BE REMOVED AFTER UPHILL AREAS HAVE BEEN PERMANENTLY STABILIZED.
CONSTRUCTION ENTRANCE (CE)	- REDUCE THE TRACKING OF SEDIMENT OFF-SITE ONTO PAVED SURFACES.	INSPECT AT THE END OF EACH WORK DAY AND IMMEDIATELY REPAIR DAMAGES, PERIODIC ADDITION OF STONE, OR LENGTHENING OF ENTRANCE MAY BE REQUIRED AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PAVED SURFACES AS A RESULT OF INEFFICIENCY OF CONSTRUCTION ENTRANCE SHALL BE IMMEDIATELY REMOVED.	- SEDIMENT IN ROADWAY ADJACENT TO SITE	CONSTRUCTION ENTRANCE MAY BE REMOVED ONCE THE SITE HAS BEEN PERMANENTLY STABILIZED, AND ALL OTHER SECTIONS OF ROADWAY HAVE BEEN PERMANENTLY PAVED.
CATCH BASIN INLET PROTECTION (IP)	- PROHIBIT SILT IN CONSTRUCTION-RELATED RUNOFF FROM ENTERING STORM DRAINAGE SYSTEM.	INSPECT AFTER ANY RAIN EVENT. IF FILTER BAG INSIDE CATCH BASIN CONTAINS MORE THAN 6" OF SEDIMENT, REMOVE SEDIMENT FROM BAG. CHECK SURROUNDING SILT FENCE AND HAY BALES PER NOTED ABOVE.	- RIPPED BAG - FAILED HAY BALES / SILT FENCE - SIGNIFICANT SILT PRESENCE IN STORM DRAINAGE SYSTEM OUTFLOW.	INLET PROTECTION MAY BE REMOVED ONCE THE SITE HAS BEEN PERMANENTLY STABILIZED, AND ALL OTHER SECTIONS OF ROADWAY HAVE BEEN PERMANENTLY PAVED.
STOCKPILE PROTECTION (STK)	- RETAIN SOIL STOCKPILE IN LOCATIONS SPECIFIED, AND REDUCE WATER-TRANSPORT.	INSPECT SILT FENCE AT THE END OF EACH WORK DAY AND IMMEDIATELY REPAIR DAMAGES, PERIODIC REINFORCEMENT OF SILT FENCE, OR ADDITION OF HAY BALES MAY BE NECESSARY.	- EVIDENCE OF STOCK PILE DIMINISHING DUE TO RAIN EVENTS - FAILURE OF SILT FENCE	STOCKPILE PROTECTION MAY BE REMOVED ONCE THE STOCKPILE IS USED OR REMOVED.
STONE CHECK DAM (SCD)	- TO REDUCE THE VELOCITY OF CONCENTRATED STORM WATER FLOWS, THEREBY REDUCING EROSION OF THE DRAINAGEWAY. - TO TEMPORARILY POND STORM WATER RUNOFF TO ALLOW SEDIMENTS TO SETTLE OUT.	INSPECT AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL OF 0.5 INCHES OR MORE. ACCUMULATED SEDIMENT MUST BE REMOVED ONCE THE DEPTH OF SEDIMENT IS EQUAL TO 1/2 THE HEIGHT OF THE CHECK DAM.	- STONE HAS MOVED - SOIL HAS ERODED AROUND OR UNDER THE CHECK DAM REDUCING ITS FUNCTIONAL CAPACITY - TRAPPED SEDIMENTS ARE OVERTOPPING THE CHECK DAM	STONE CHECK DAMS MAY BE REMOVED ONCE CONSTRUCTION HAS CEASED AND THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED.



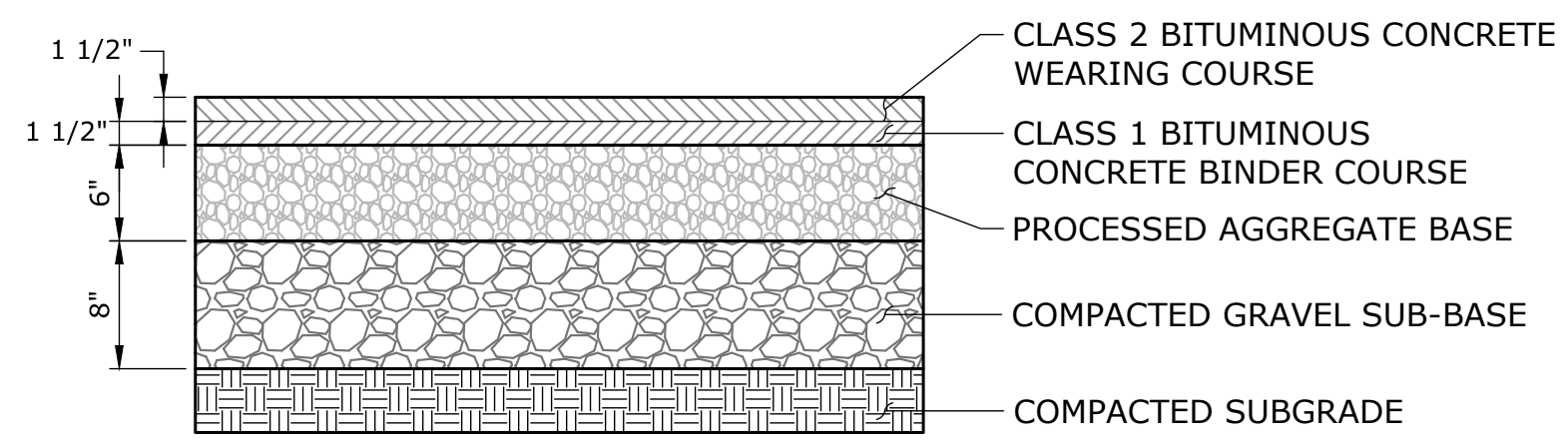
DESCRIPTION	DATE	BY
TOWN COMMENTS	12/28/2020	AUS

SEDIMENT AND EROSION CONTROL DETAILS  
PROPOSED ELDERLY HOUSING DEVELOPMENT  
343 CLINTONVILLE ROAD (RT. 22)  
NORTH HAVEN, CONNECTICUT

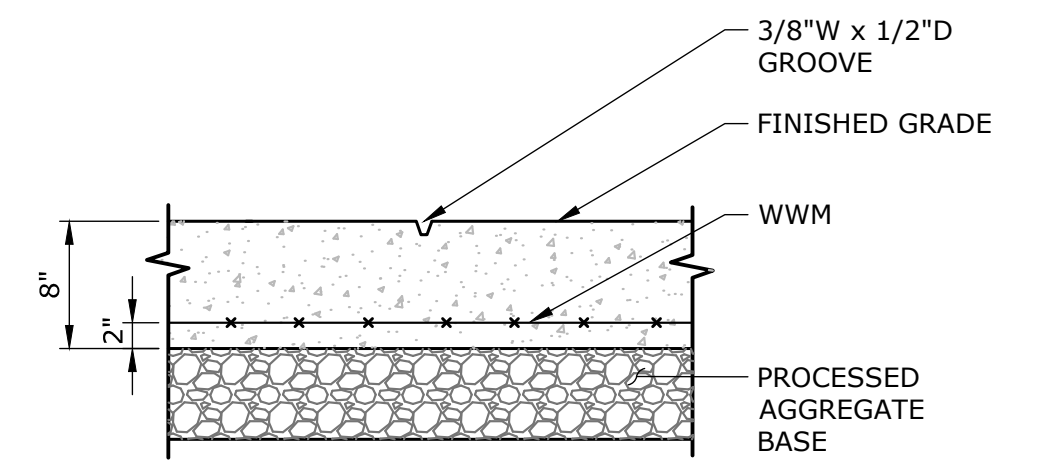
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OCTOBER 27, 2020		
DATE		
PROJECT NO. 2709-13		
SHEET NO. 06 OF 11		

SE-2  
SHEET NAME

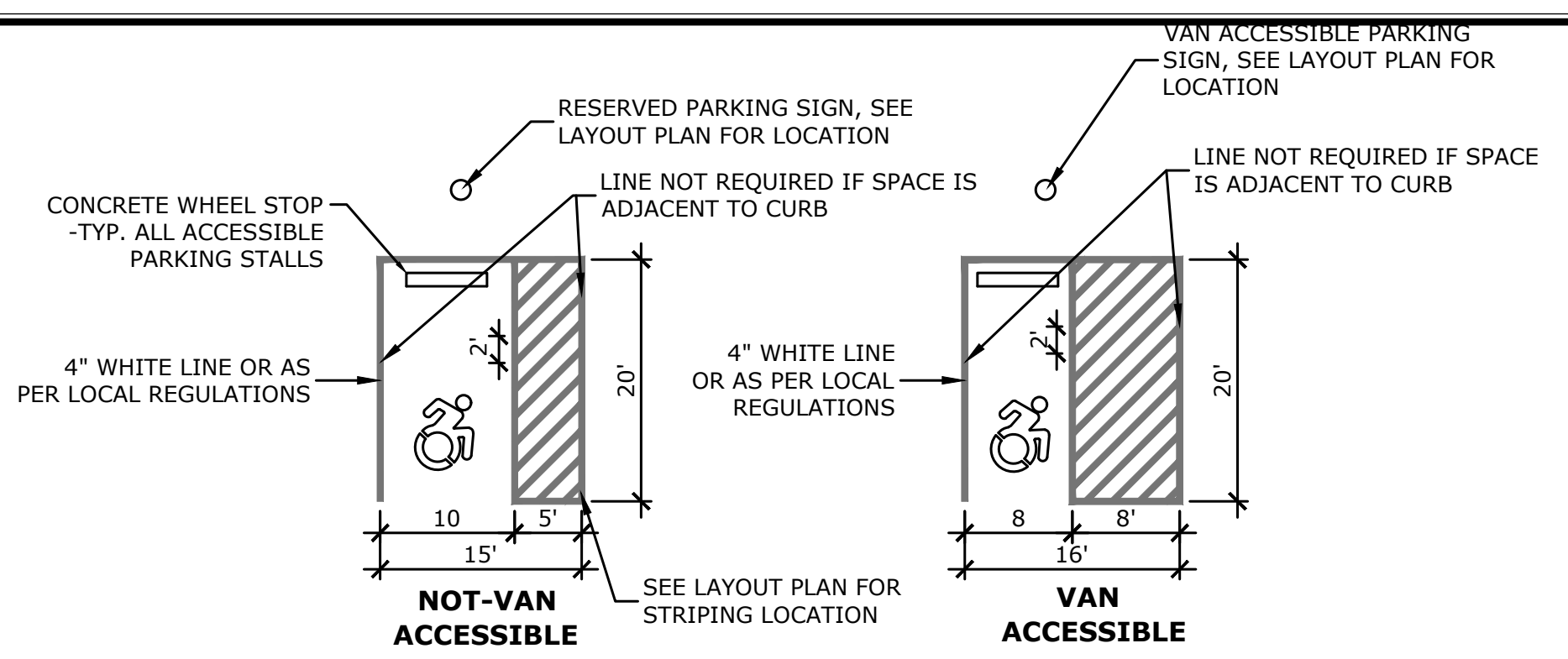




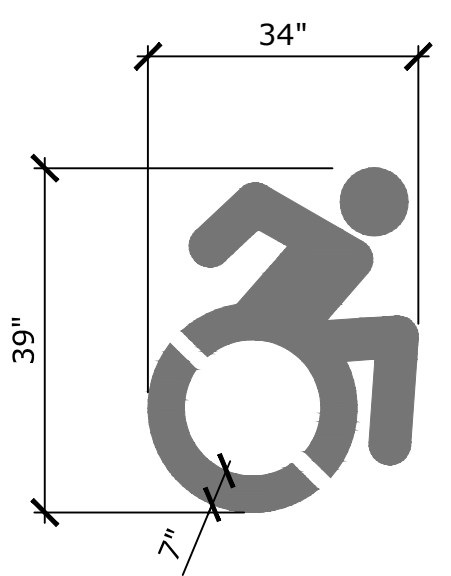
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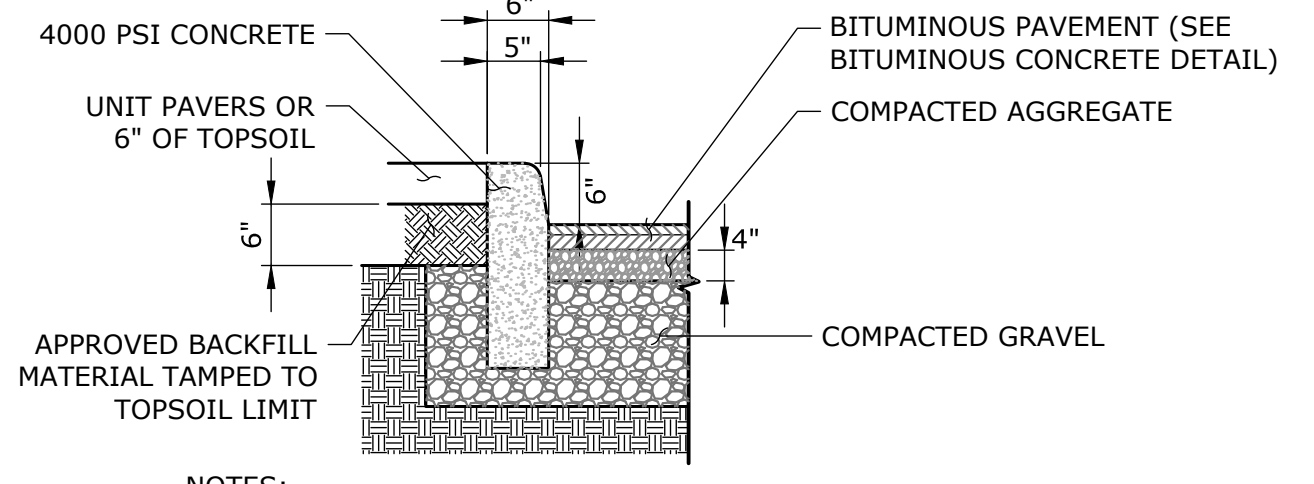
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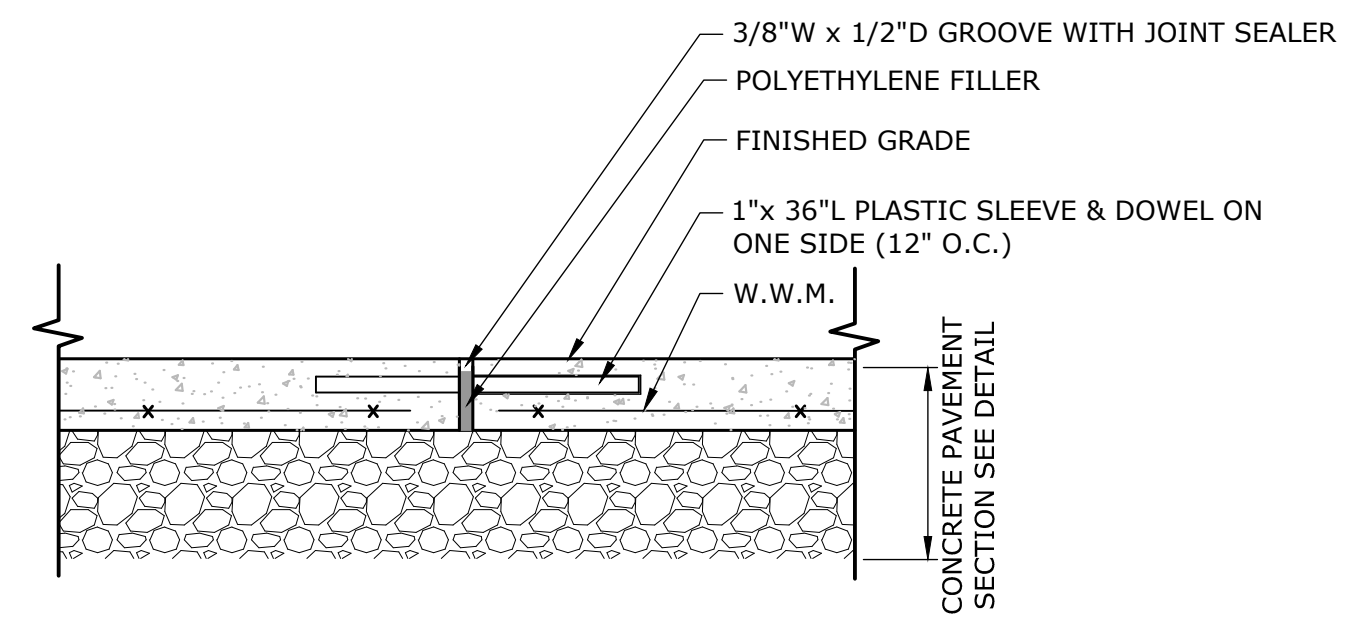
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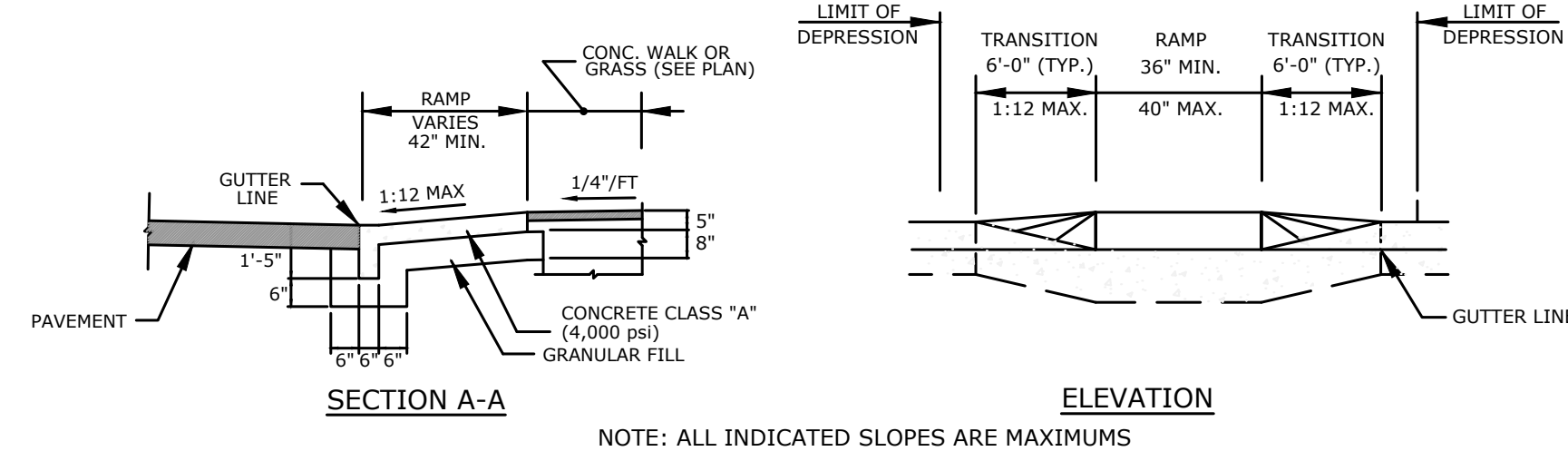
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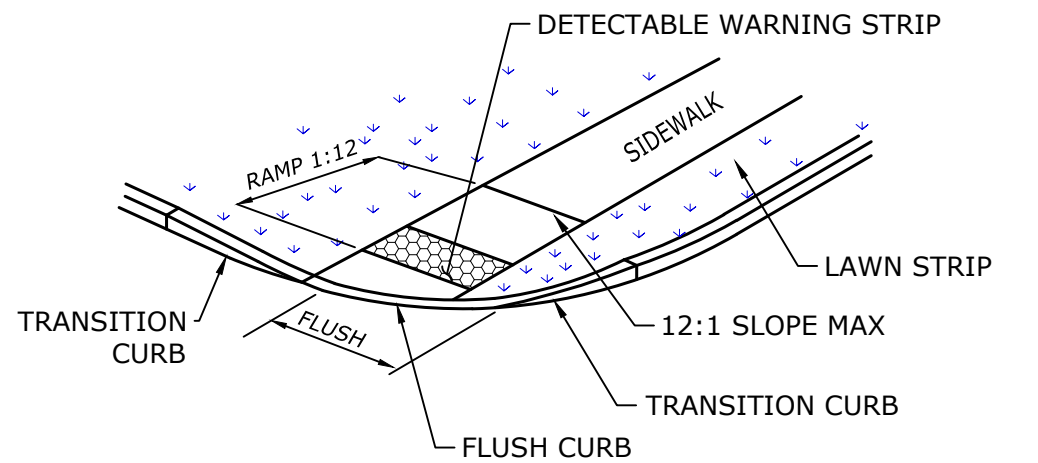
**CONCRETE CURB**  
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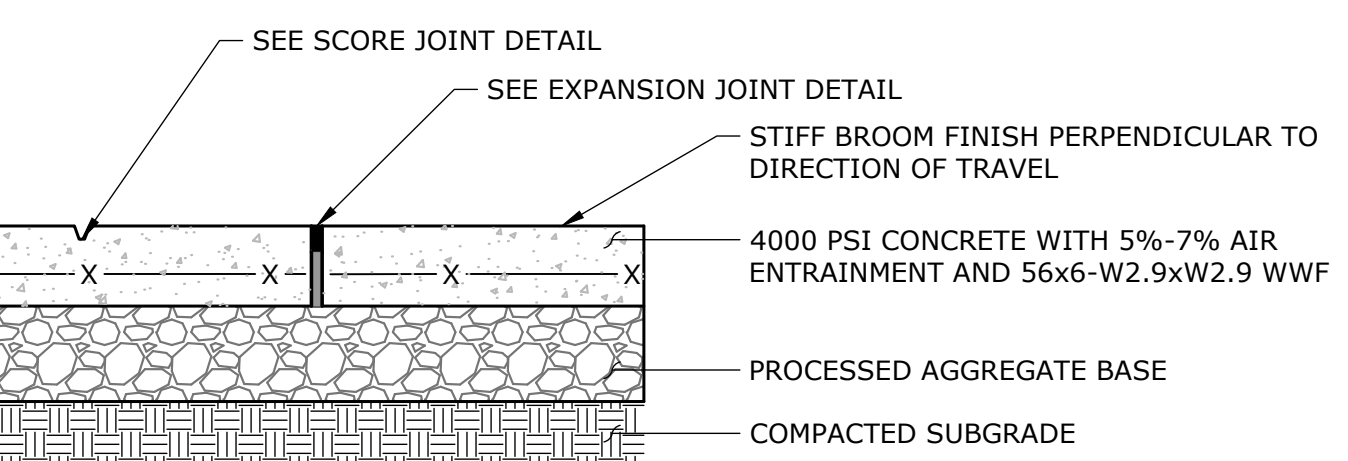
**CEMENT CONCRETE EXPANSION JOINT**  
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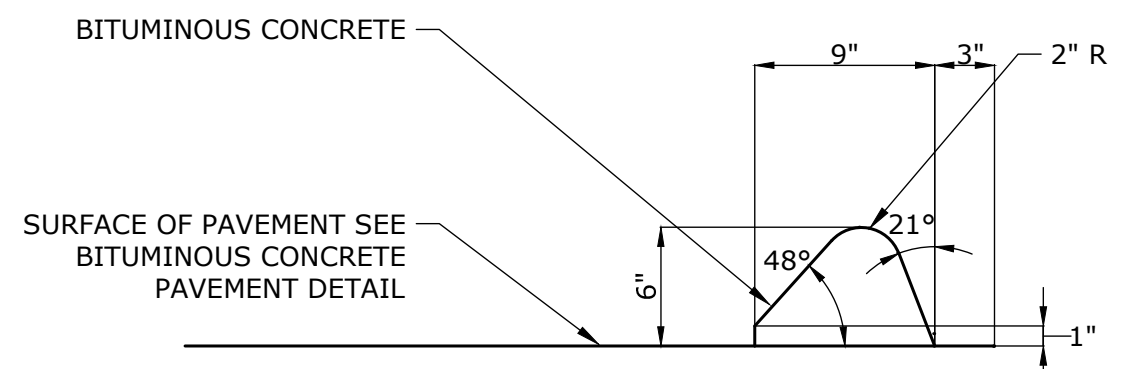
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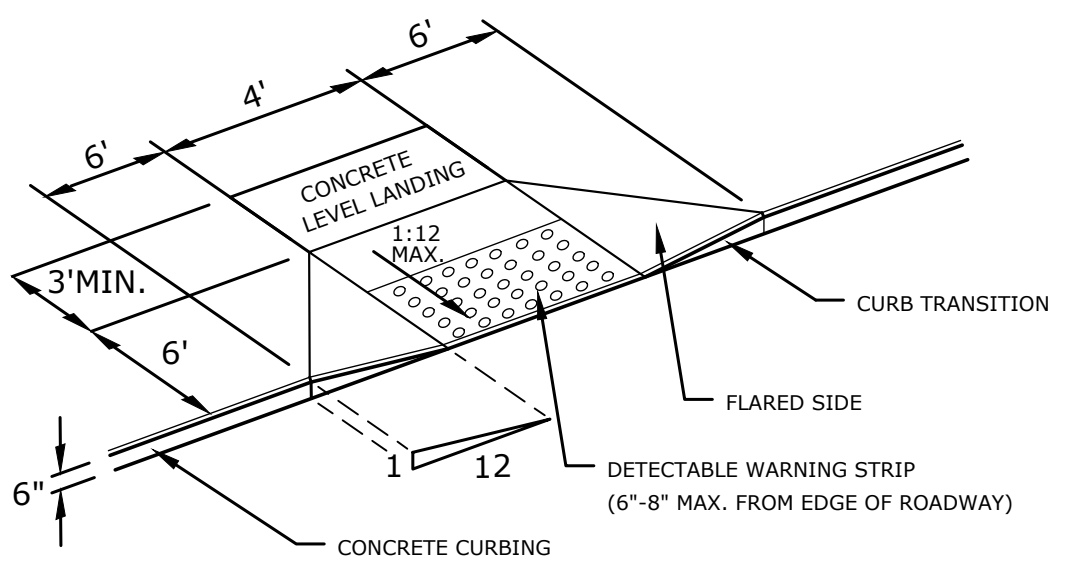
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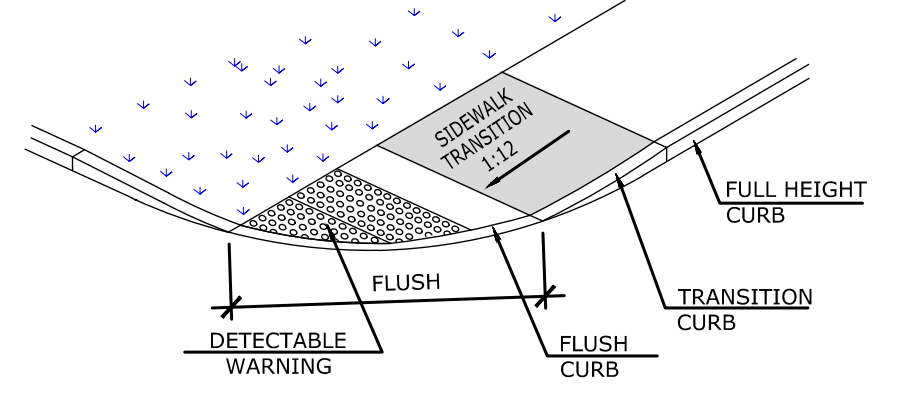
**CONCRETE SIDEWALK**  
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**BITUMINOUS CONCRETE CURB**  
NOT TO SCALE



**ACCESSIBLE DROP RAMP - TYPE C**  
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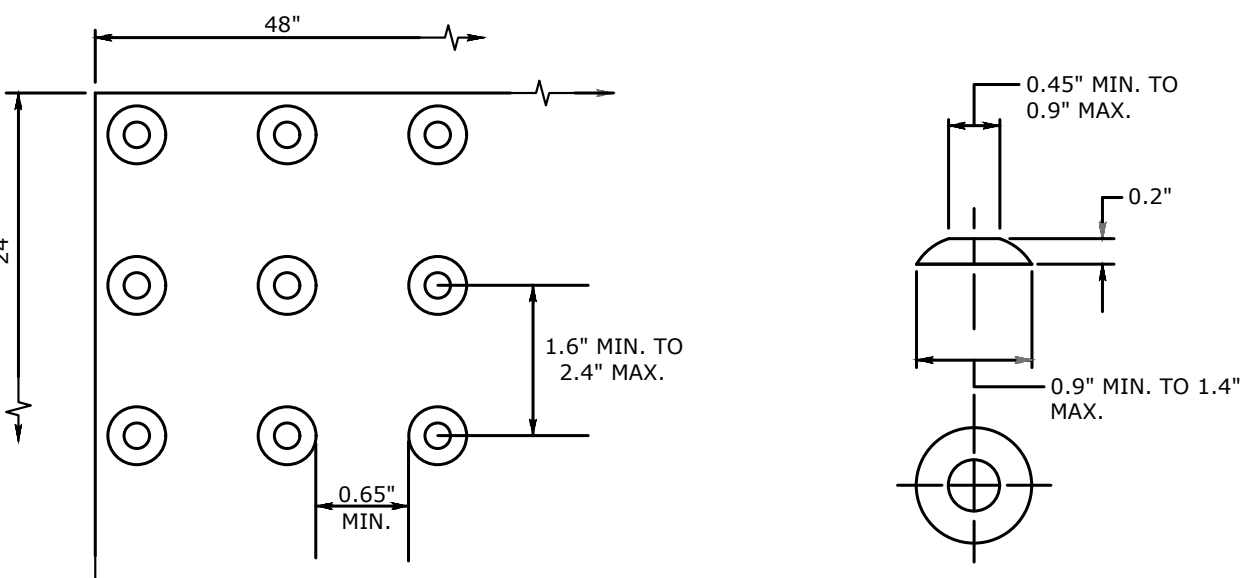


- NOTES:**
- EXPANSION JOINTS 20' O.C. MAXIMUM CONSTRUCTION JOINTS 5' O.C. TYPICAL (OR AS SHOWN ON PLANS).

- NOTES:**
- EXPANSION JOINTS EVERY 20LF MAXIMUM OR EVERY 144SF UNLESS OTHERWISE INDICATED ON PLANS (SEE JOINT DETAILS)
  - SCORE JOINTS 5' ON CENTER UNLESS OTHERWISE INDICATED ON PLANS.
  - USE AT LOADING DOCK AND ALL UTILITY PADS.



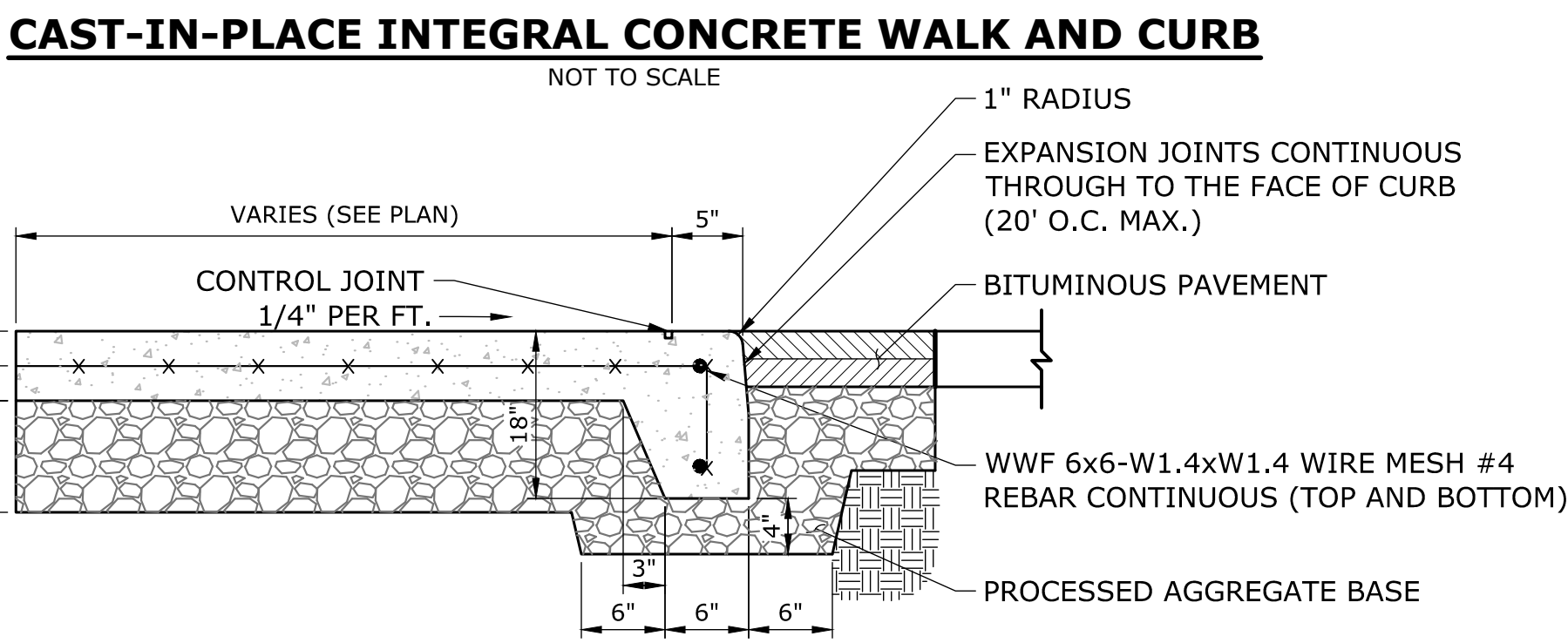
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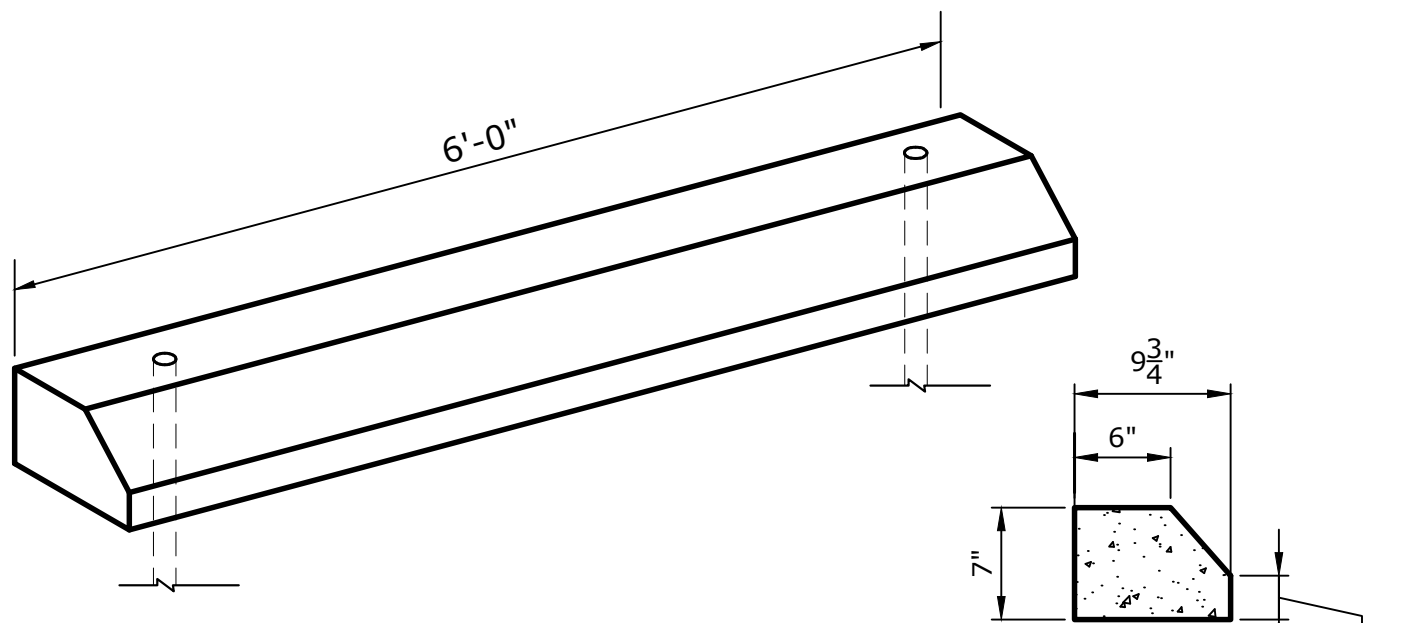
**DOMES**  
N.T.S.

**ACCESSIBLE DROP RAMP NOTES:**

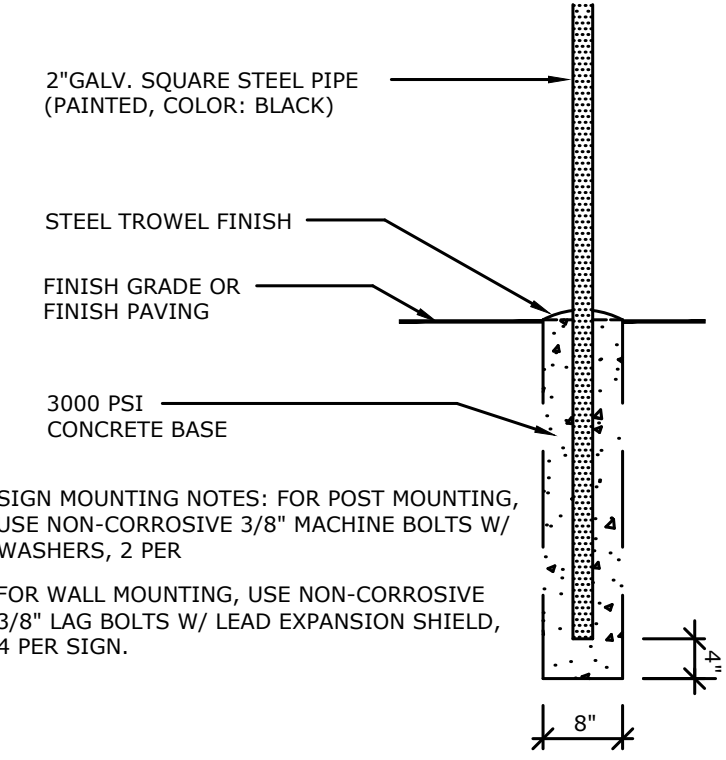
- MAXIMUM SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO THE SIDEWALK RAMP OR ACCESSIBLE ROUTE SHOULD NOT EXCEED 1:20.
- CARE SHALL BE TAKEN TO ASSURE UNIFORM GRADE ON THE RAMP, FREE OF SAGS AND ABRUPT GRADE CHANGES.
- ALL RAMP SHALL BE CONSTRUCTED OF CLASS "C" PSI CONCRETE IN ACCORDANCE WITH CONNECTICUT STANDARD SPECIFICATIONS ARTICLE M.03.01.
- SIDEWALK RAMP SHALL HAVE A COARSE BROOM FINISH TRANSVERSE TO THE SLOPE OF THE RAMP. THE SURFACE ALONG ACCESSIBLE ROUTES SHALL BE STABLE, FIRM AND SLIP RESISTANT IN COMPLIANCE WITH ADA ACCESSIBILITY GUIDELINES SECTION 4.5.
- DIAGONAL SIDEWALK RAMP AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARED SIDES.
- REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION/CONTRACTION JOINT OR DUMMY JOINT. 1:12 MAY NOT BE ACHIEVABLE DUE TO SIDEWALK GRADE. IN RECOGNITION OF THIS, A MINIMUM LIMIT OF 15' FOR A PARALLEL RAMP SHALL BE USED. REMOVAL SHALL NOT BE FURTHER THAN 2' FROM THE PROPOSED RAMP UNLESS DIRECTED BY THE ENGINEER. SAW CUT REQUIRED FOR DUMMY JOINTS SHALL BE INCLUDED IN THE COST OF "CONCRETE SIDEWALK".
- EXPANSION JOINTS & TOOLED EDGES IN CONCRETE SHALL MATCH THOSE IN ADJACENT SIDEWALKS BUT IN NO CASE SHALL THE SPACING BETWEEN EXPANSION JOINTS EXCEED 12' UNLESS OTHERWISE NOTED.
- RAISED ISLANDS IN MARKED CROSSINGS SHALL HAVE SIDEWALK RAMP AT BOTH SIDES AND A LEVEL AREA AT LEAST 4' LONG BETWEEN THE RAMP. IF THIS CAN NOT BE ACHIEVED, THE RAISED ISLAND SHALL BE CUT THROUGH LEVEL WITH THE ROADWAY AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- CURBING WITHIN THE LIMITS OF THE NEW SIDEWALK RAMP SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE REQUIREMENTS OF FORM §16.
- HANDICAP RAMP CONFORMING WITH CONNECTICUT GENERAL STATUTES, SEC. 7-118a, SHALL BE INCORPORATED IN ALL PROPOSED SIDEWALKS AT ALL STREET INTERSECTIONS, AND AT ALL OTHER LOCATIONS WHERE THE GRADE OF A DRIVEWAY OR OTHER FACILITY TAKES PRECEDENCE OVER THE GRADE OF THE PROPOSED SIDEWALK.
- TRANSITION TO FULL HEIGHT CURB. MATCH THE ADJACENT CURBING MATERIAL UNLESS OTHERWISE NOTED ON PLANS. INSTALL THE EDGE OF THE DETECTABLE WARNING 6" FROM THE EDGE OF ROAD.
- TO PERMIT WHEELCHAIR WHEELS TO ROLL BETWEEN DOMES, ALIGN DOMES ON A SQUARE GRID. IN THE DIRECTION OF PEDESTRIAN TRAVEL.



**CAST-IN-PLACE INTEGRAL CONCRETE WALK AND CURB**  
NOT TO SCALE



**CONCRETE PAD**  
NOT TO SCALE



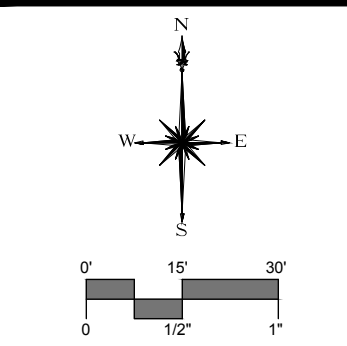
**TRAFFIC SIGN POST**  
N.T.S.

- NOTES:**
- CONCRETE: 4000 PSI, 28 DAYS
  - WEIGHT, 300 LBS.
  - REINFORCEMENT, (2) #4 BARS
  - (2) 3/4" HOLES CAST IN FOR ANCHORING
  - (2) PROVIDE 5/8" x 30" REBAR FOR ANCHORING

**CONCRETE WHEEL STOP DETAIL**  
NOT TO SCALE

**FLUSH INTEGRAL CONCRETE WALK & CURB**  
NOT TO SCALE

- NOTES:**
- CONCRETE TO BE CLASS "C", 3,000 PSI AT 28 DAYS. 1/2" EXPANSION JOINT AT INTERVALS NOT TO EXCEED 20'. EXPANSION JOINT TO RUN TO THE FACE OF CURB.
  - TO BE USED IN ALL LOCATIONS AS SHOWN ON PLANS.



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DESCRIPTION	DATE	BY

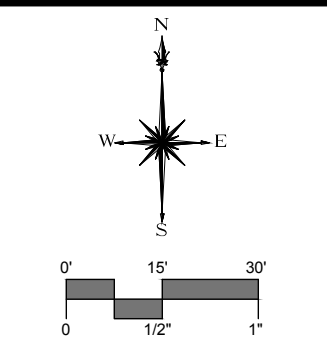
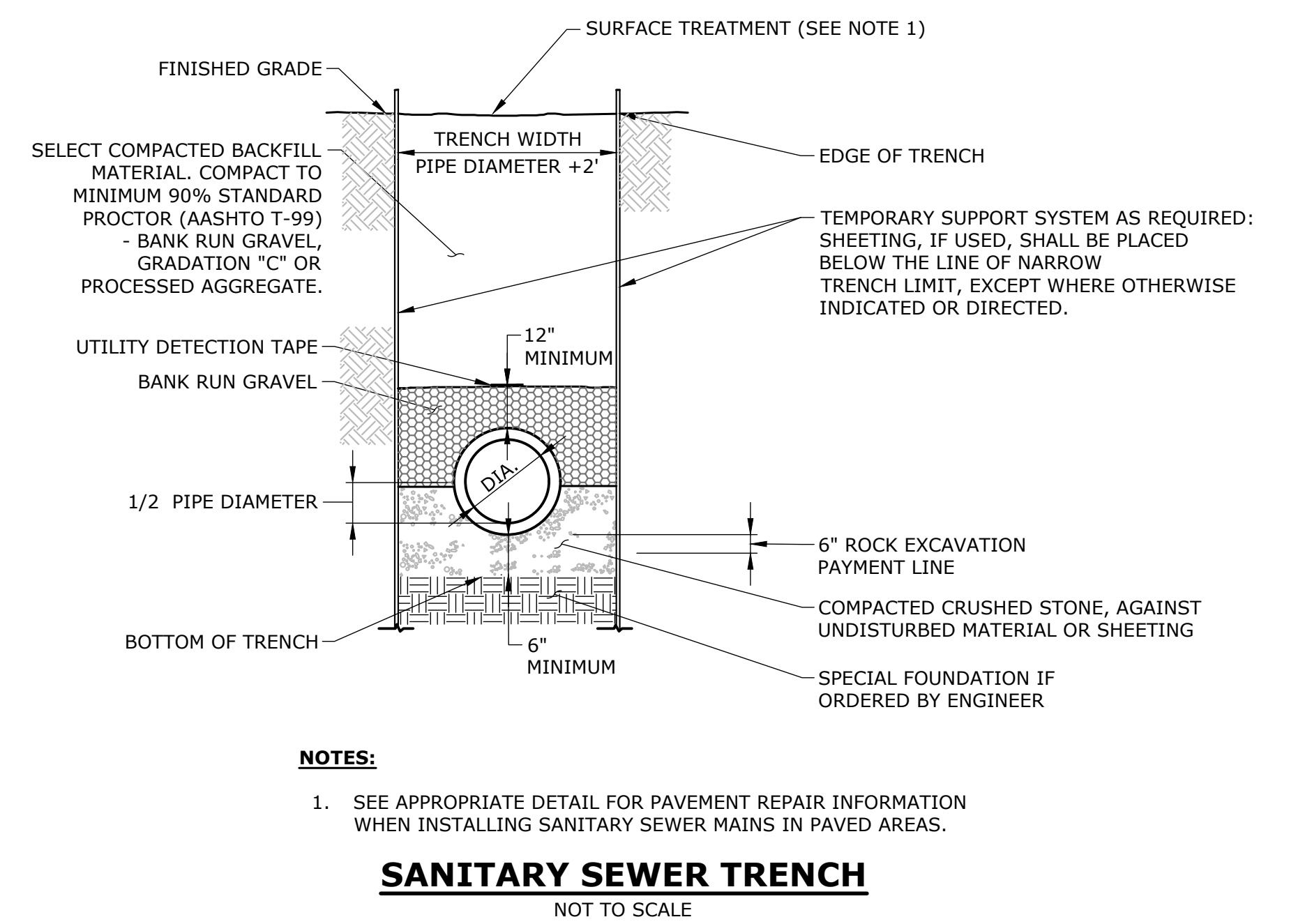
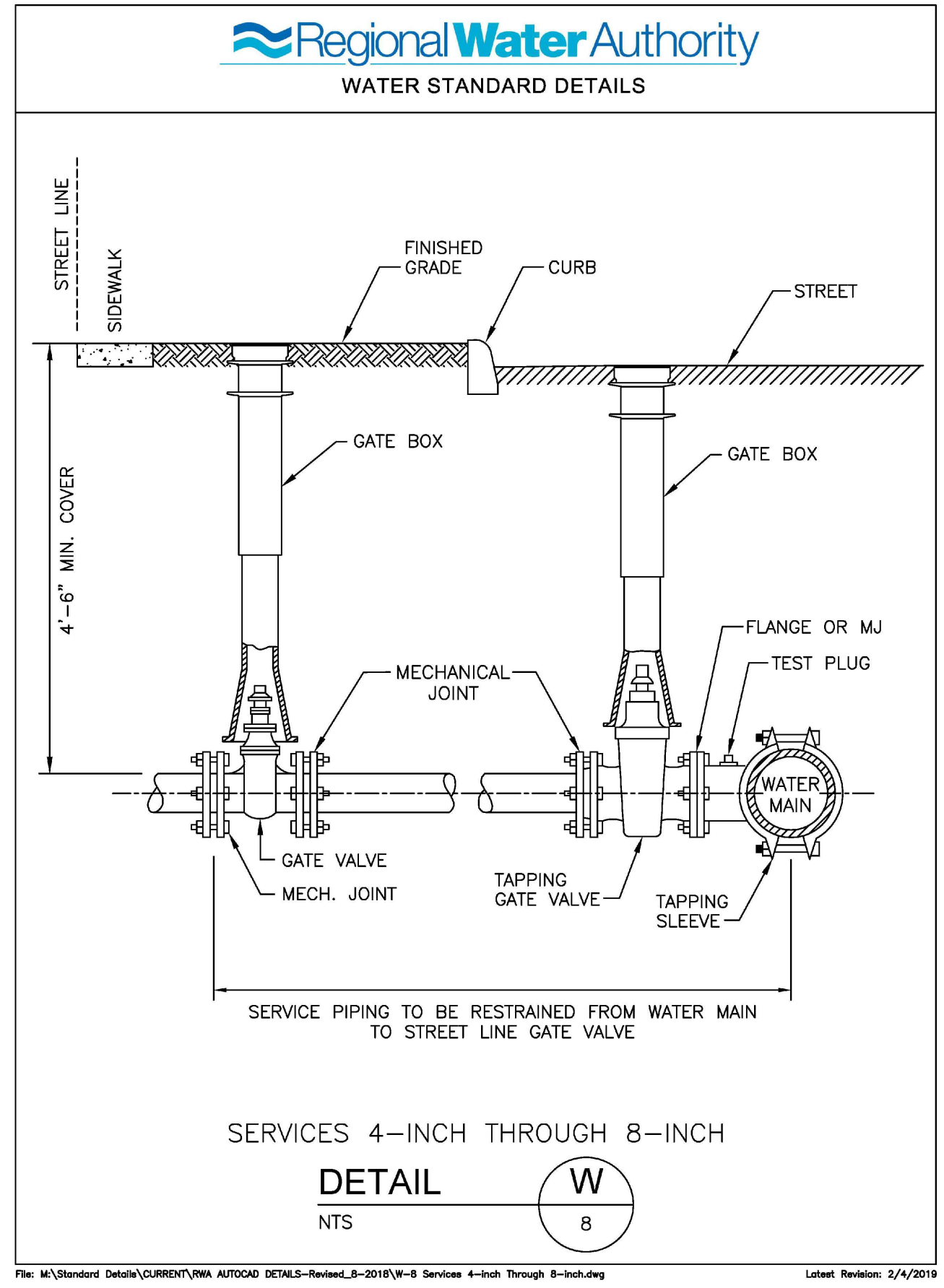
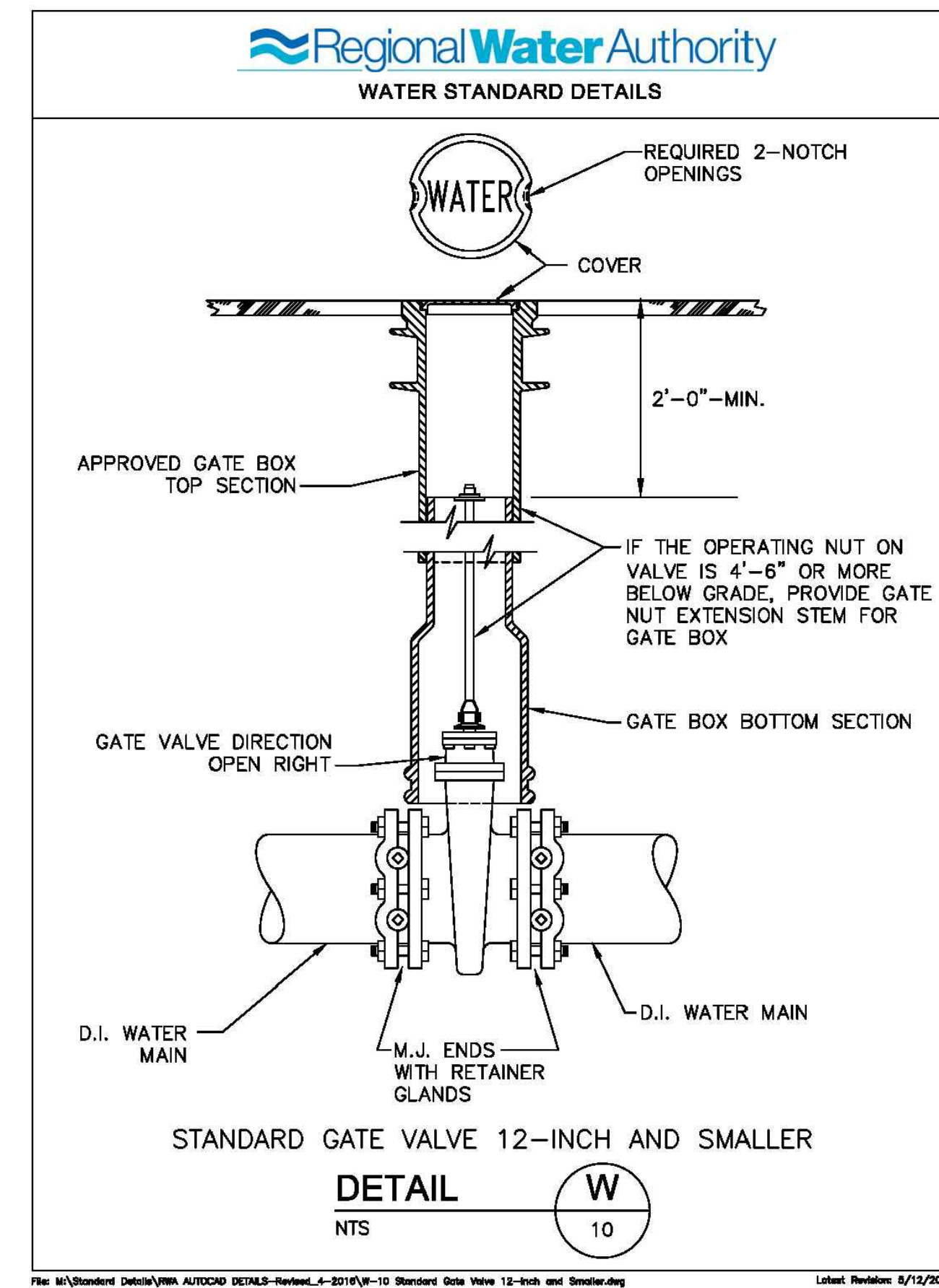
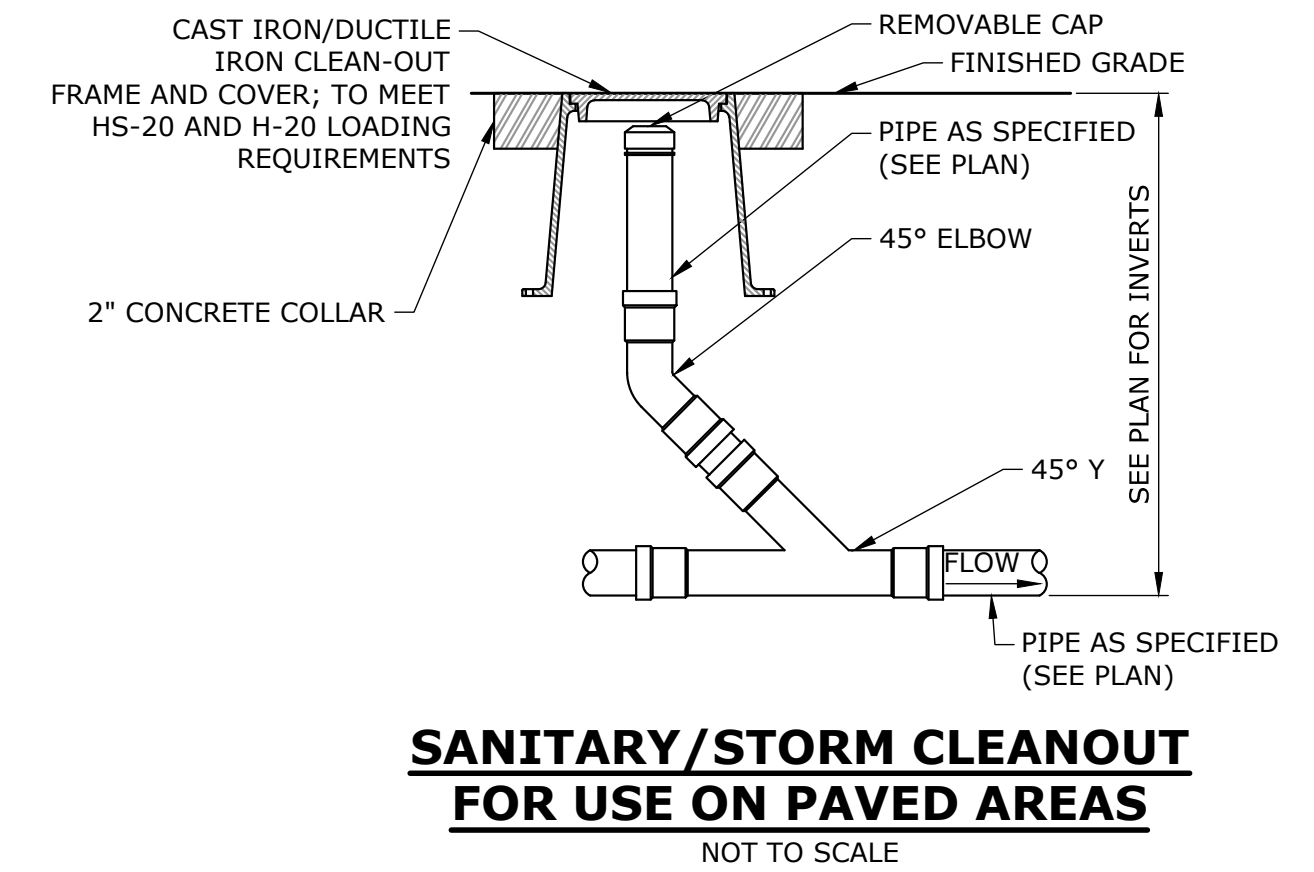
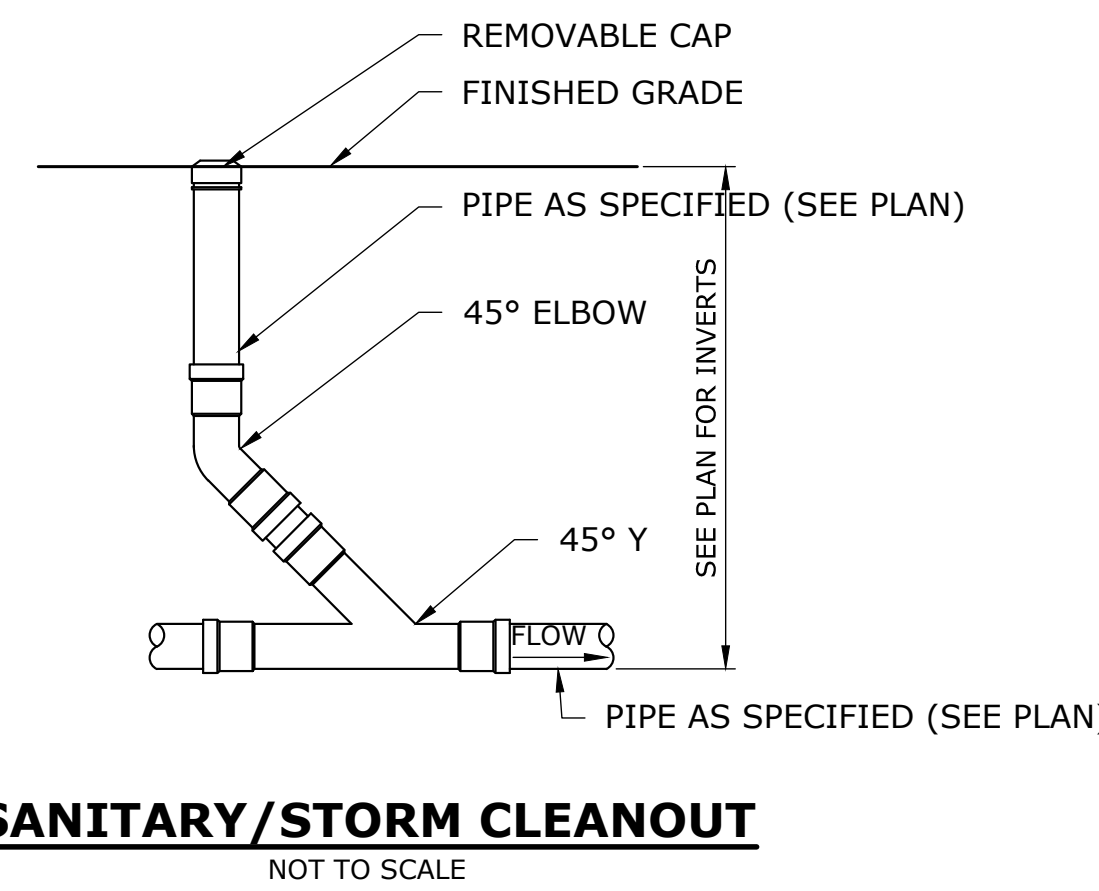
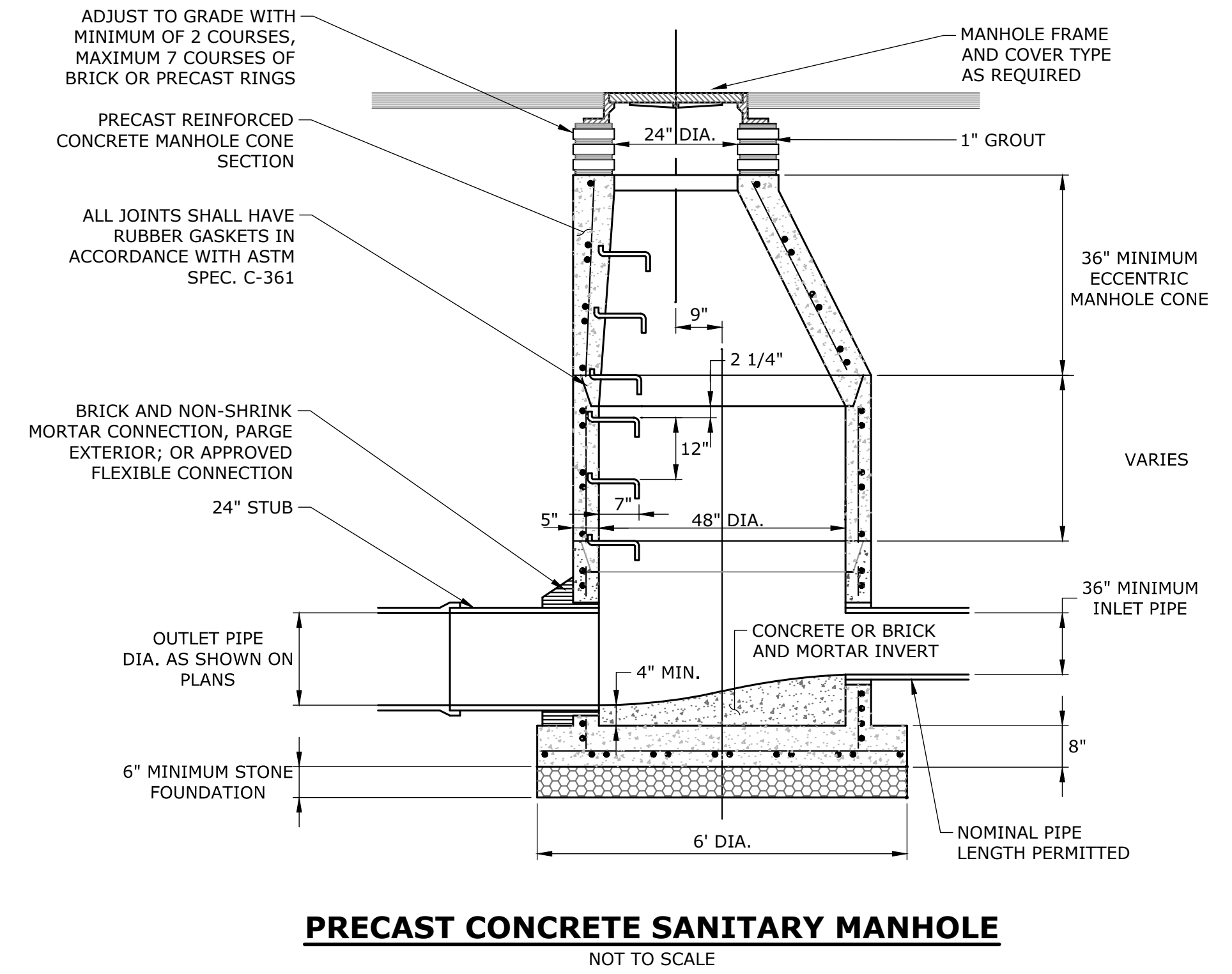
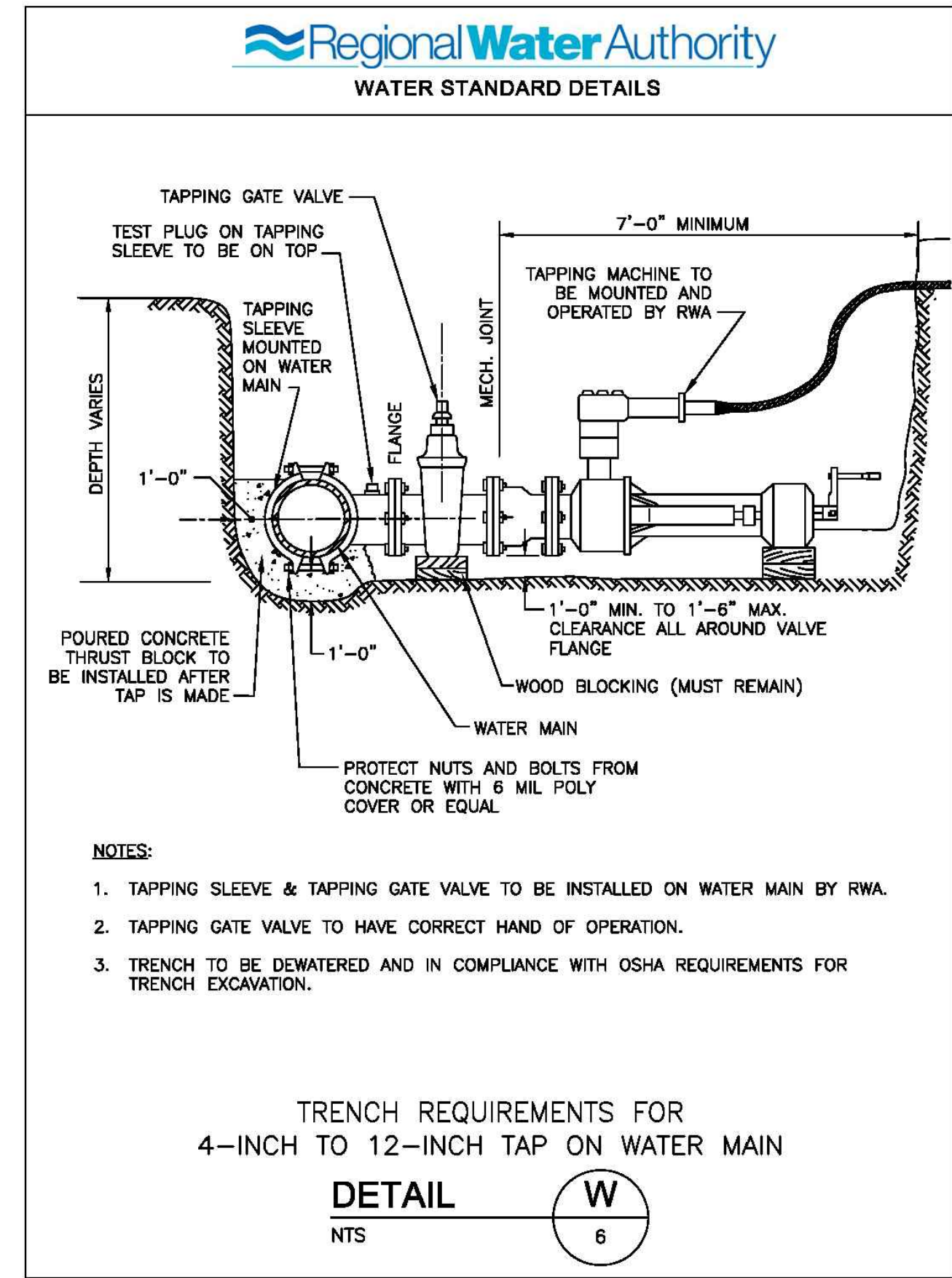
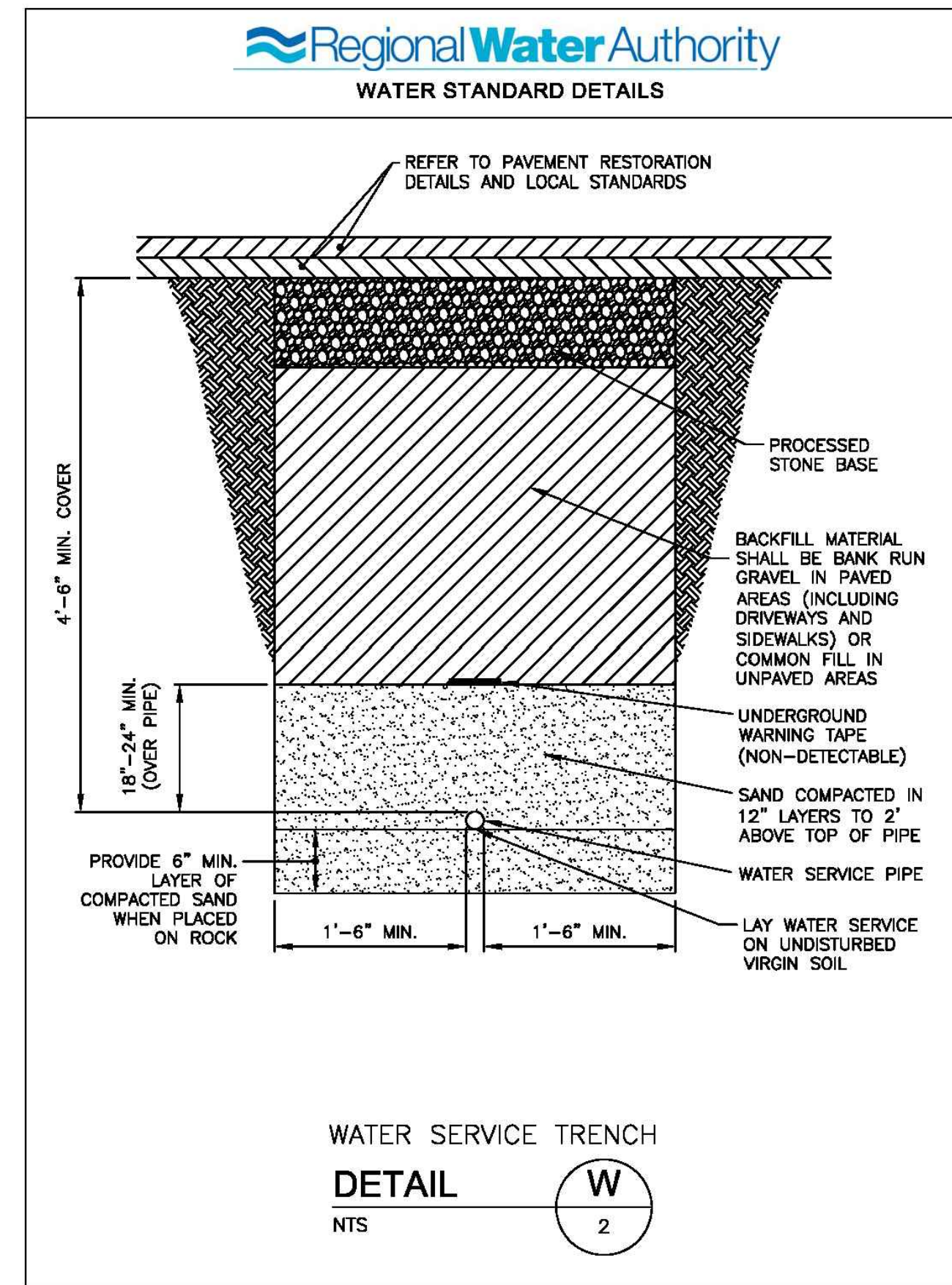
**SITE DETAILS**  
**PROPOSED ELDERLY HOUSING DEVELOPMENT**  
343 CLINTONVILLE ROAD (RT. 22)  
NORTH HAVEN, CONNECTICUT

SCALE	DATE	PROJECT NO.	SHEET NO.	SHEET NAME
AS SHOWN	OCTOBER 27, 2020	2709-13	07 OF 11	SD-1









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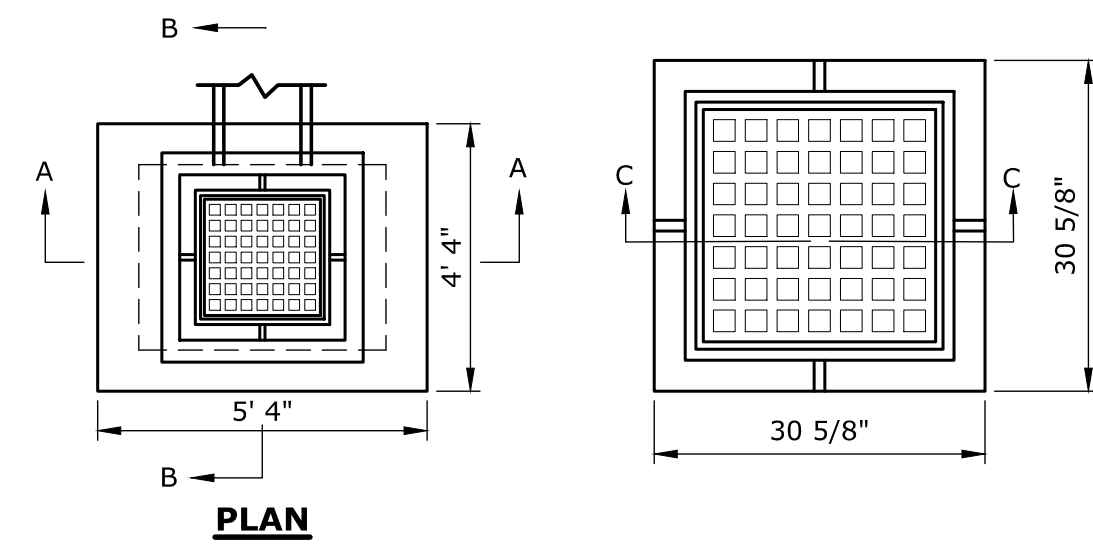
DESCRIPTION	DATE	BY

**SITE DETAILS**  
PROPOSED ELDERLY HOUSING DEVELOPMENT  
343 CLINTONVILLE ROAD (RT. 22)  
NORTH HAVEN, CONNECTICUT

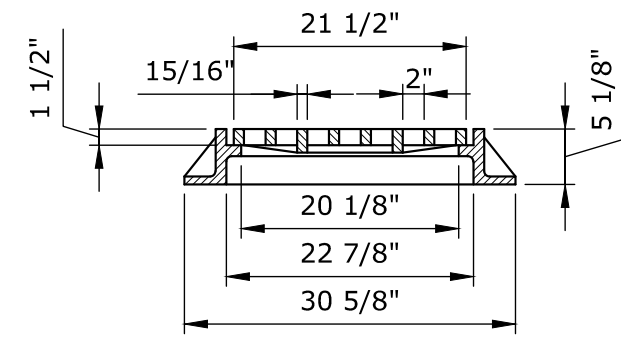
DESIGNED	ADSD	RJM
SCALE	AS SHOWN	
DATE	OCTOBER 27, 2020	
PROJECT NO.	2709-13	
SHEET NO.	09 OF 11	
<b>SD-3</b>		



10/21/20 - 4' PRECAST CONCRETE UNIT WITH 20" DIA. MANHOLE  
 10/21/20 - 4' PRECAST CONCRETE UNIT WITH 24" DIA. MANHOLE  
 10/21/20 - 4' PRECAST CONCRETE UNIT WITH 30" DIA. MANHOLE



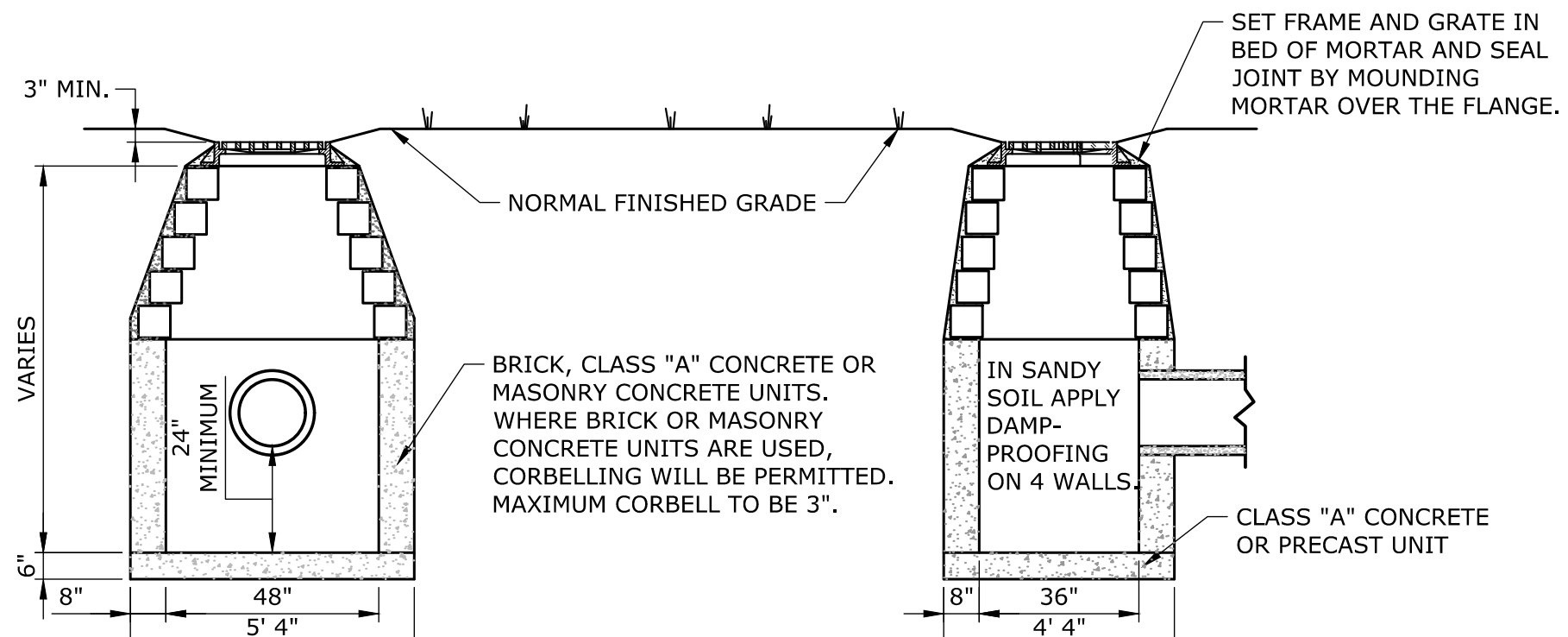
**SECTION C-C**



**NOTES:**  
 1. YARD DRAIN FRAMES & GRATES SHALL BE PATTERN #R-3404 AS MANUFACTURED BY THE "NEENAH FOUNDRY COMPANY" OF NEENAH, WISCONSIN, OR APPROVED EQUAL.

**YARD DRAIN FRAME & GRATE**

NOT TO SCALE



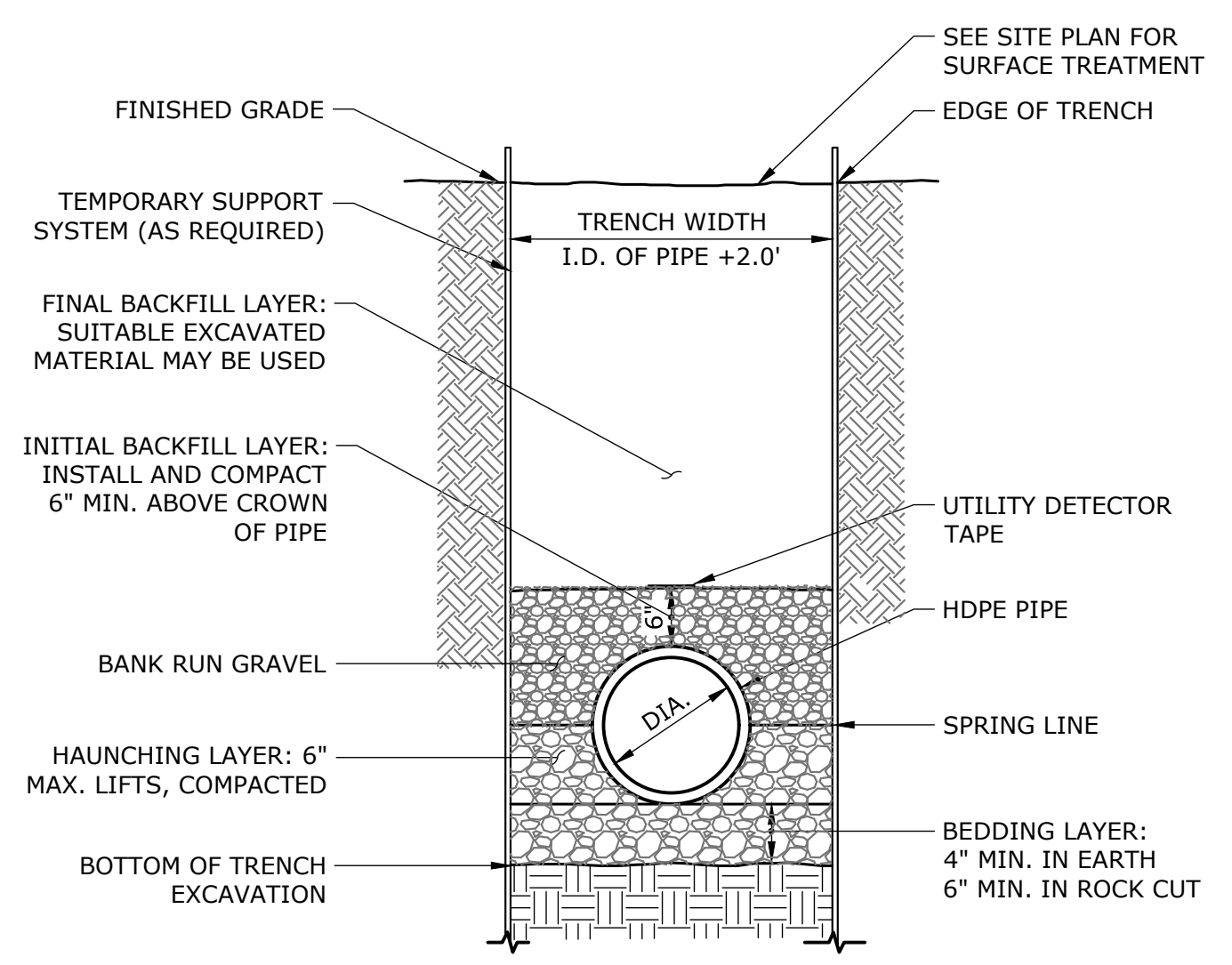
**SECTION A-A**

**SECTION B-B**

**NOTES:**  
 1. WHERE PRECAST CONCRETE UNIT IS USED FOR SUMP, THE TOP OF THE UNIT SHALL BE AT LEAST 6" BELOW THE BOTTOM OF THE PIPE OUTLET FROM THE CATCH BASIN.

**YARD DRAIN**

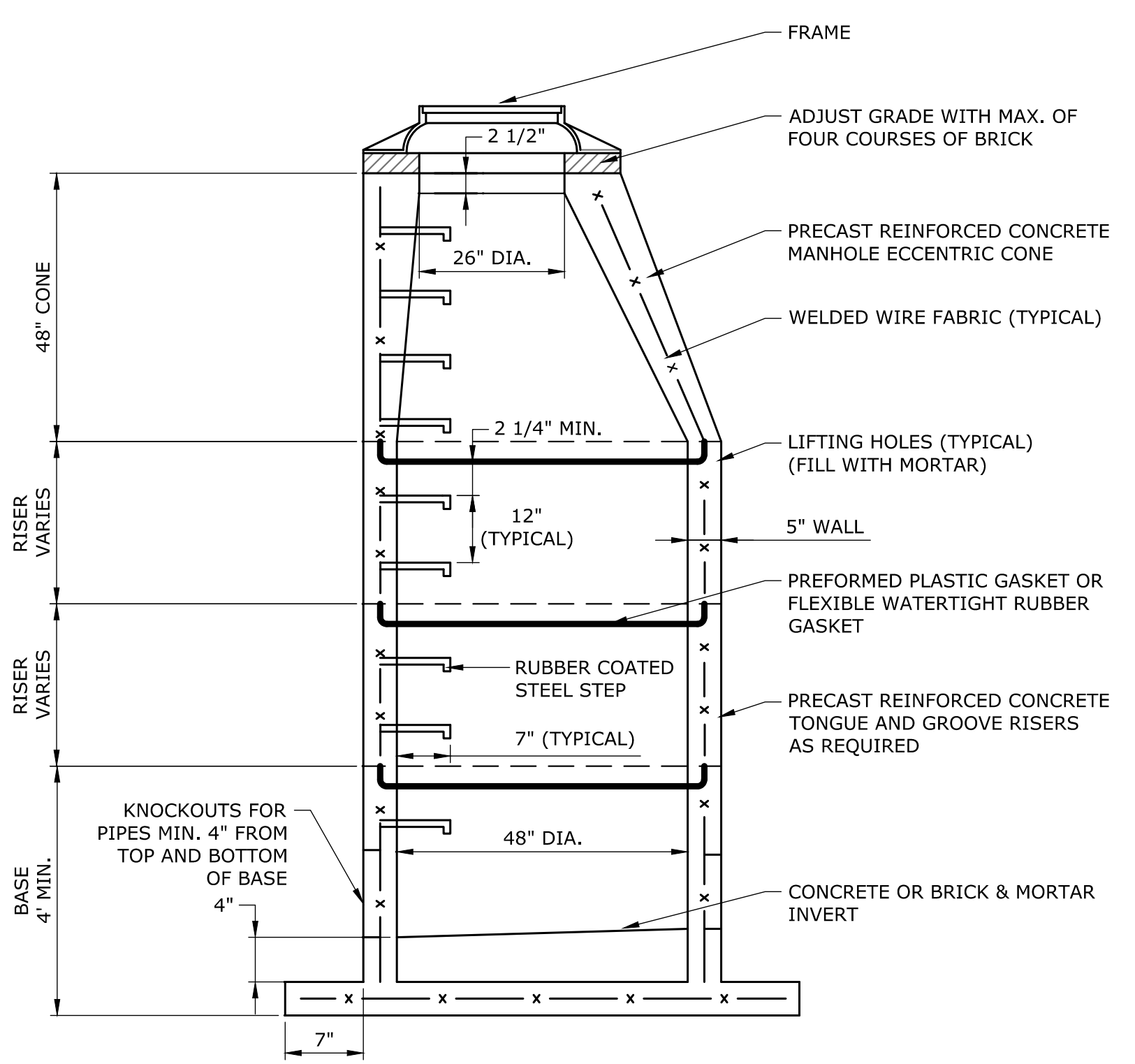
NOT TO SCALE



**NOTES:**  
 1. BACKFILL MATERIAL USED IN BEDDING AND HAUNCHING SHALL BE 3/4" CRUSHED STONE.  
 2. PAYMENT LIMIT FOR ROCK IN TRENCH TO BE PIPE DIAMETER + 3.0'

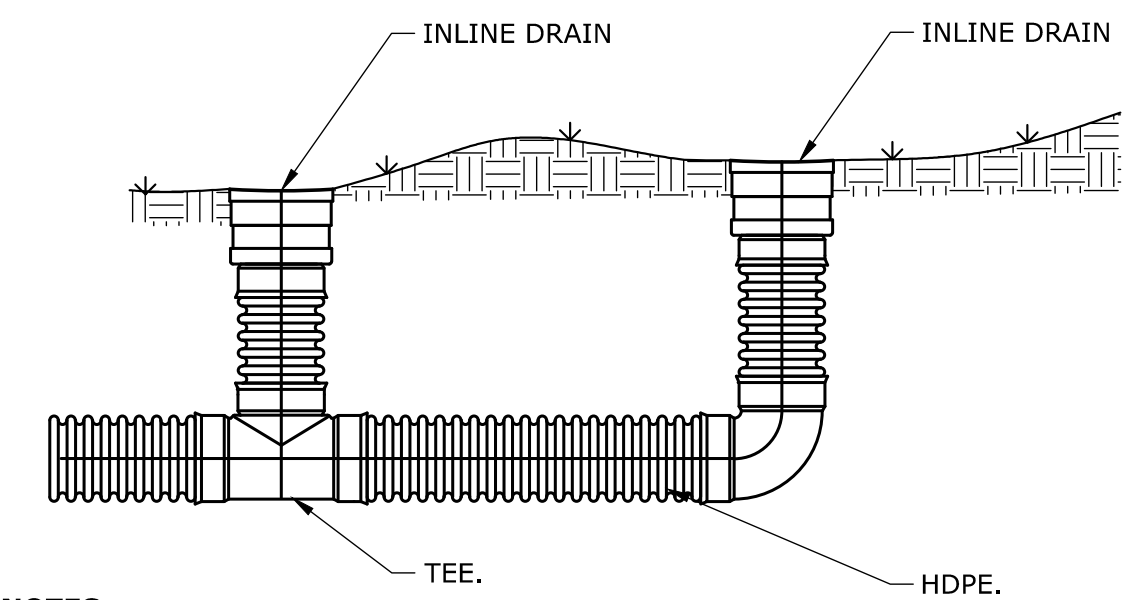
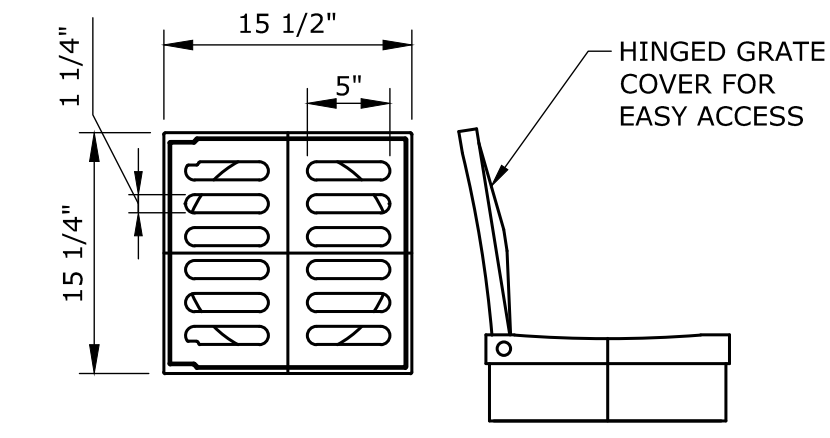
**STORM DRAINAGE TRENCH**

NOT TO SCALE



**STORM MANHOLE**

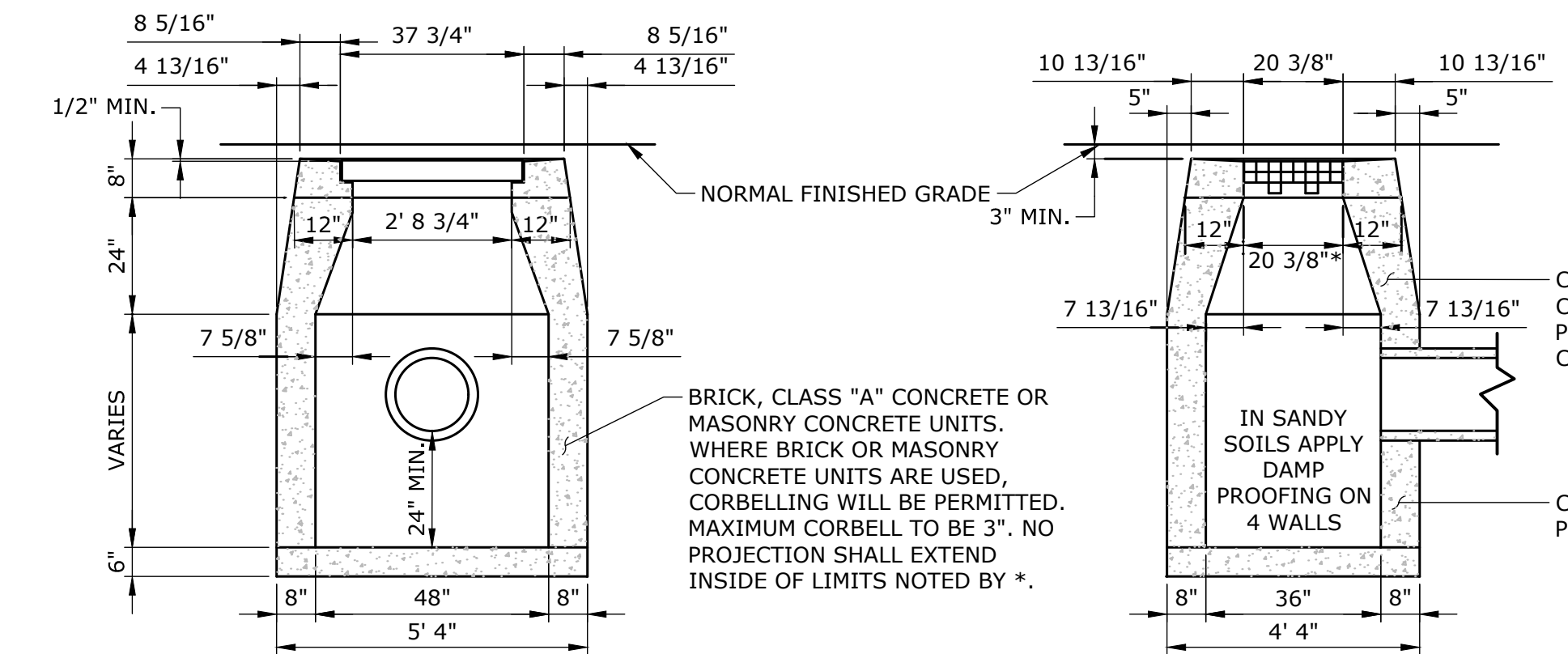
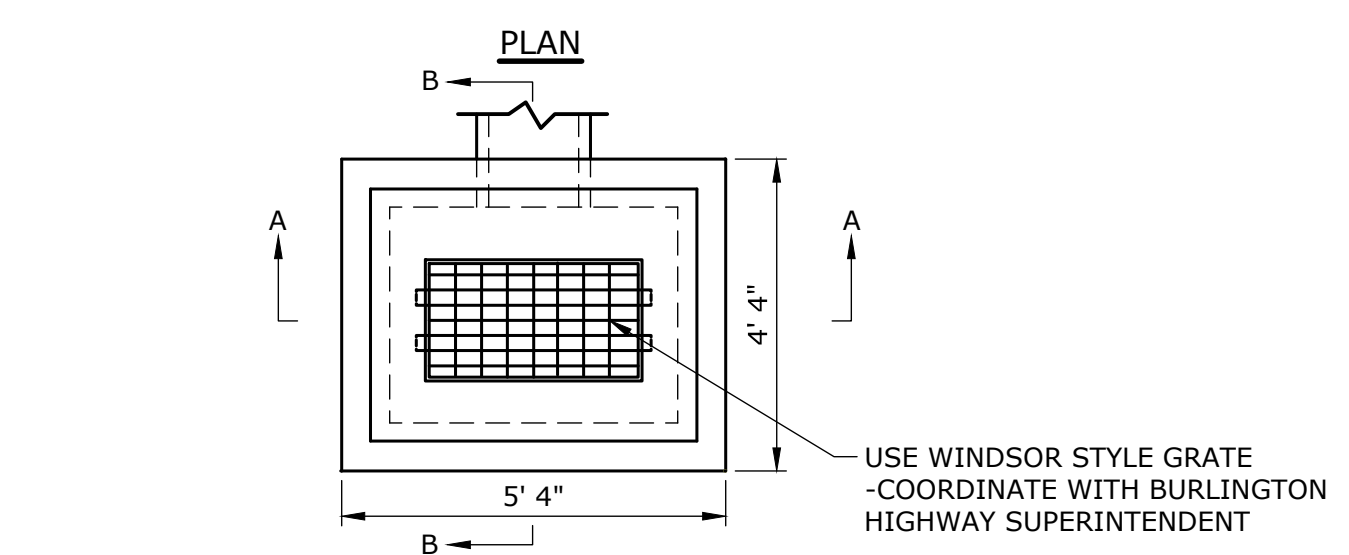
NOT TO SCALE



**NOTES:**  
 1. ALL AREA DRAIN GRATES SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED ON PLANS.  
 1.1. 15" CAST IRON GRATE DRAIN AREA = 92.55Q. INCH GRATE HAS H-20 (HEAVY TRAFFIC) DOT RATING.  
 1.2. MATERIAL SHALL CONFORM TO ASTM A48 - CLASS 30B.  
 1.3. CASTINGS ARE FURNISHED WITH A BLACK PAINT.  
 1.4. INLINE DRAIN TO BE NYLOPLAST INC. OR APPROVED EQUAL.

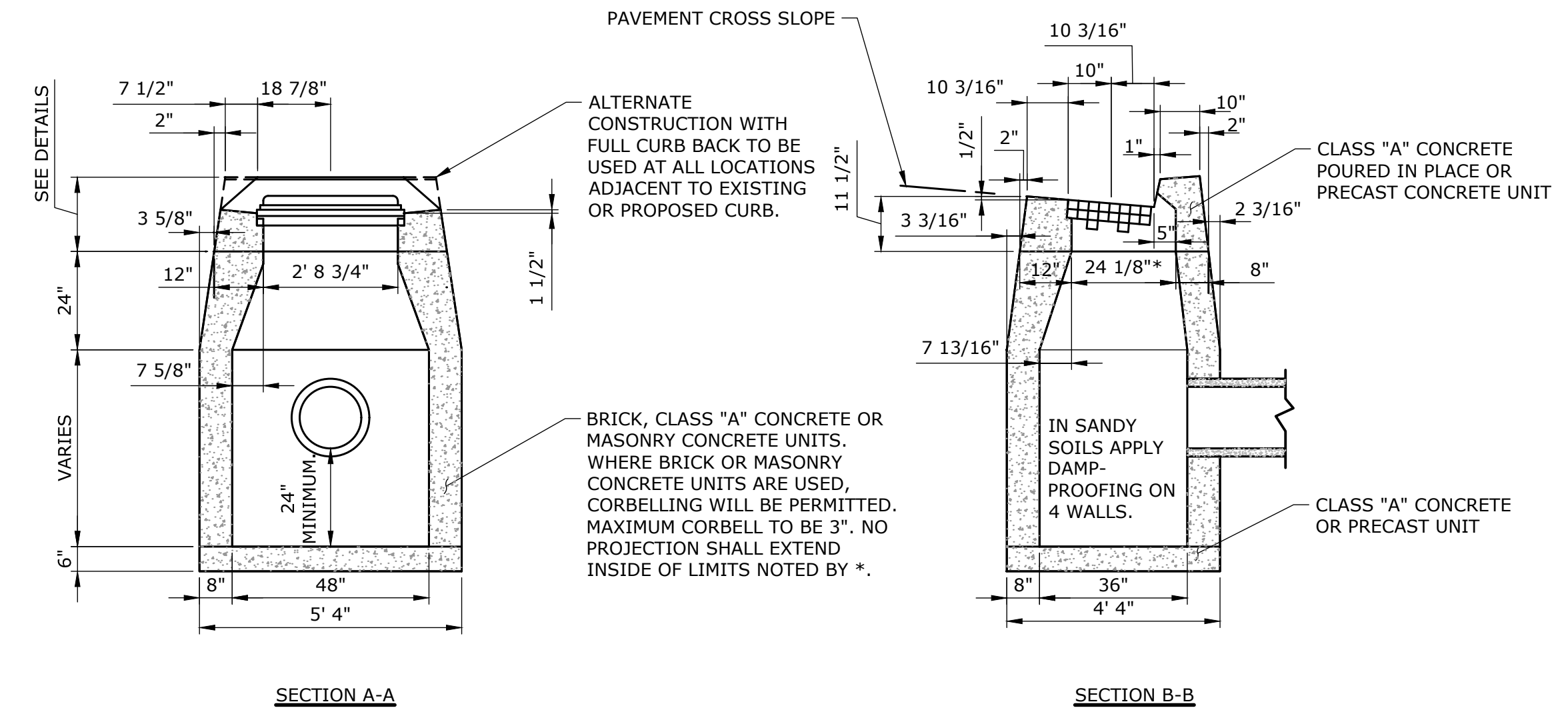
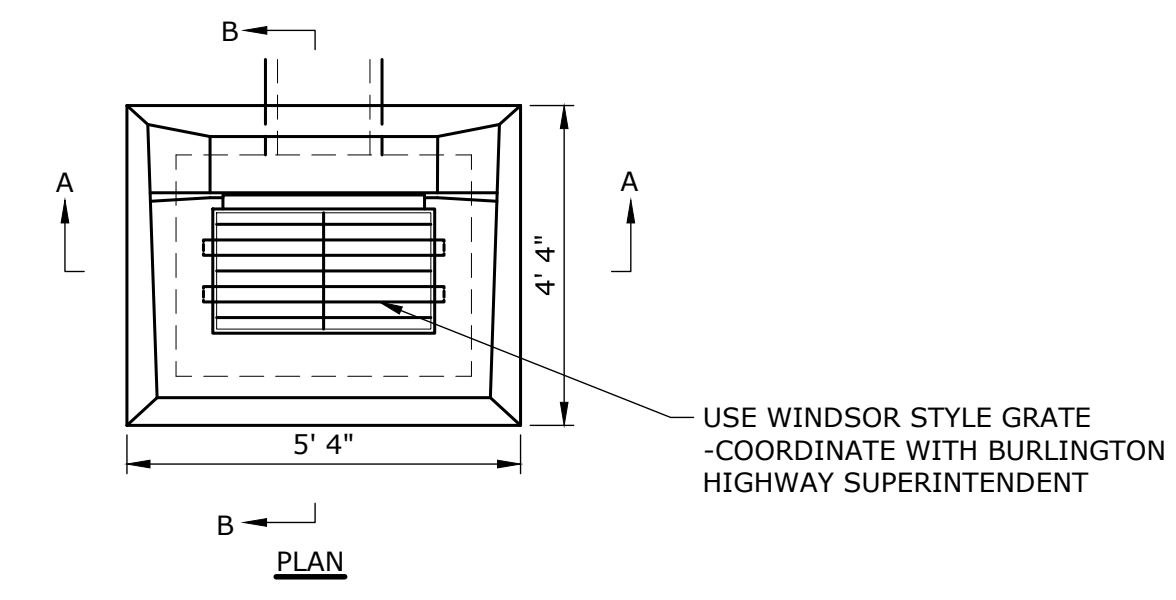
**AREA DRAIN AND GRATE**

NOT TO SCALE



**NOTES:**  
 1. WHERE PRECAST CONCRETE UNIT IS USED FOR SUMP, THE TOP OF THE UNIT SHALL BE AT LEAST 6" BELOW THE BOTTOM OF THE PIPE OUTLET FROM THE CATCH BASIN.

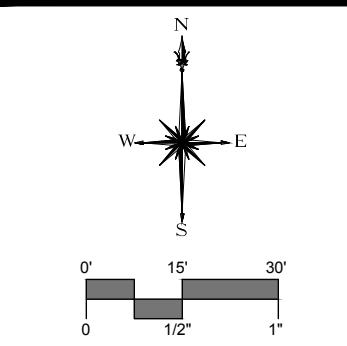
**TYPE "C-L" CATCH BASIN**  
 NOT TO SCALE



**NOTES:**  
 1. WHEN CATCH BASIN IS SET IN CONCRETE PAVEMENT, THE 1/2" SLOPE ON THE TOP SURFACE SHALL BE CHANGED TO MATCH ADJOINING PAVEMENT.  
 2. WHERE PRECAST CONCRETE UNIT IS USED FOR SUMP, THE TOP OF THE UNIT SHALL BE AT LEAST 6" BELOW THE BOTTOM OF THE PIPE OUTLET FROM THE CATCH BASIN.

**TYPE "C" CATCH BASIN**

NOT TO SCALE



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**SITE DETAILS**  
**PROPOSED ELDERLY HOUSING DEVELOPMENT**  
 343 CLINTONVILLE ROAD (RT. 22)  
 NORTH HAVEN, CONNECTICUT

DESIGNED	ADS	RJM
DRAWN		
CHECKED		
SCALE		
AS SHOWN		
DATE		
OCTOBER 27, 2020		
PROJECT NO.		
2709-13		
SHEET NO.		
10 OF 11		
SHEET NAME		
SD-4		



