

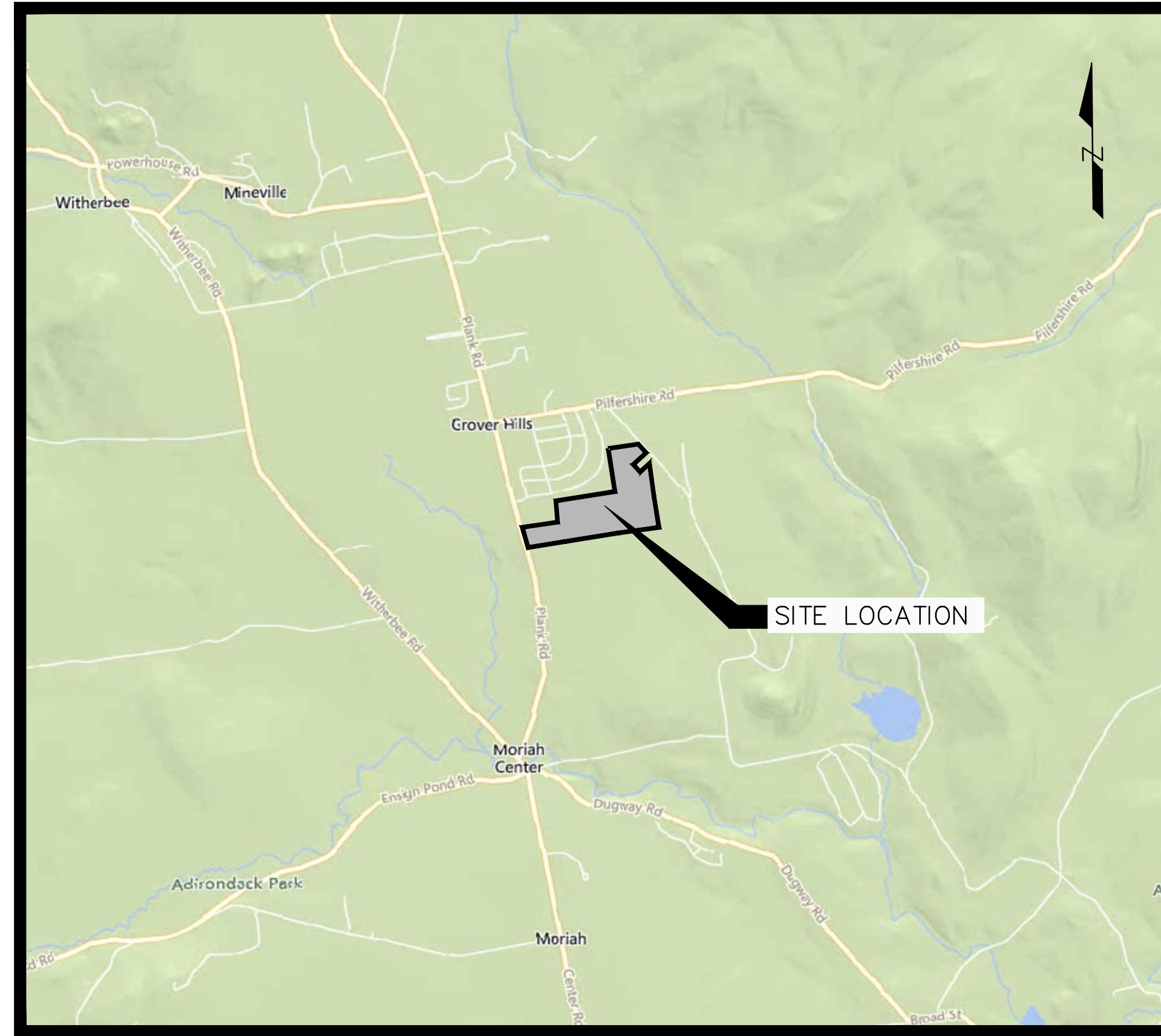
ESSEX BOCES FACILITY

TOWN OF MORIAH * ESSEX COUNTY * NEW YORK

GENERAL NOTES:

- ENGINEERING DRAWINGS BASED ON A BOUNDARY AND TOPOGRAPHIC SURVEY PREPARED BY LANSING ENGINEERING, PC, ENTITLED "TOPOGRAPHIC SURVEY", DATED DECEMBER 11, 2025 AND WETLAND DELINEATION PREPARED BY GILBERT VANSULDER LAND SURVEYOR, PLLC ENTITLED "WETLAND DELINEATION MAP" DATED OCTOBER 22, 2025. A WETLAND SITE WALK WAS PERFORMED WITH NYSDEC ON NOVEMBER 19, 2025.
- ALL TRAFFIC SIGNAGE FOR THE PROPOSED DEVELOPMENT SHALL CONFORM TO THE CURRENT VERSIONS OF THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE NEW YORK STATE SUPPLEMENTAL.
- ALL RIP-RAP STRUCTURES SHOWN SHALL BE CONSTRUCTED OF D STONE FILLING (UNLESS NOTED OTHERWISE).
- ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR URBAN EROSION AND SEDIMENT CONTROL AND IMPLEMENTED IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN.
- ALL DISTURBED AREAS TO RECEIVE TOPSOIL, SEED, FERTILIZER AND MULCH TO ESTABLISH A PERMANENT STAND OF GRASS.
- SIZE AND LOCATION OF UNDERGROUND UTILITIES ARE SUBJECT TO VERIFICATION BY THE CONTRACTOR BEFORE CONSTRUCTION BEGINS.
- PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY DIG SAFELY N.Y. OR 811 FOR VERIFICATION OF THE LOCATION OF UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO THE START OF EXCAVATION.
- ALL KNOWN UTILITIES THAT EXIST ON OR ADJACENT TO THE PROJECT SITE HAVE BEEN SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT AND PRESERVE EXISTING UTILITIES.
- ALL UTILITIES DAMAGED OR DISTURBED BY THE WORK OF THIS CONTRACT SHALL BE REPLACED IN KIND BY THE CONTRACTOR.
- CONTRACTOR SHALL OBTAIN THE REQUIRED PERMITS FOR WORK WITHIN PUBLIC RIGHTS-OF-WAY AS REQUIRED BY THE MUNICIPALITY AND ALL PERMITS REQUIRED FOR UTILITY WORK ON-SITE FROM THE TOWN.
- CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FOR WORK ON-SITE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- THERE SHALL BE NO CHANGES ON THESE PLANS IN ADVANCE OF, OR CONSTRUCTION WITHOUT PRIOR APPROVAL OF THE DESIGN ENGINEER, THE OWNER AND THE MUNICIPALITY.
- ALL CONSTRUCTION SHALL CONFORM TO GENERALLY ACCEPTED CONSTRUCTION STANDARDS OR A.O.B.E.
- THE CONTRACTOR SHALL COMPLY WITH CONSTRUCTION INSPECTION REQUIREMENTS OF ALL AGENCIES, AND PHASE WORK ACCORDINGLY.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.
- FIELD ADJUSTMENT MUST BE REVIEWED BY A REPRESENTATIVE OF LANSING ENGINEERING PRIOR TO INSTALLATION.
- PROTECT NEWLY GRADED WORK AREAS FROM TRAFFIC AND EROSION, AND KEEP THEM FREE FROM TRASH AND DEBRIS UNTIL PHYSICAL COMPLETION OF WORK.
- CONTRACTORS OPERATIONS ON SITE WHICH SHALL INCLUDE BUT NOT BE LIMITED TO DUST CONTROL, MATERIAL HAULING, FIRE PROTECTION, EROSION CONTROL, ETC. SHALL BE CONDUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AGENCY HAVING JURISDICTION.
- LOCATE EXISTING UNDERGROUND UTILITIES IN AREAS OF WORK; IF UTILITIES ARE TO REMAIN IN PLACE, PROVIDE ADEQUATE MEANS OF SUPPORT AND PROTECTION DURING EARTHWORK OPERATIONS.
- THE CONTRACTOR SHALL COORDINATE MAINTENANCE AND PROTECTION OF TRAFFIC WITH THE AGENCY HAVING JURISDICTION. ALL MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. ALL NECESSARY SIGNAGE SHALL BE IN ACCORDANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION'S MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- ALL UTILITY FRAMES SHALL BE SET AT THE BINDER COURSE ELEVATION AND RAISED TO THE TOP COURSE ELEVATION AT THE TIME OF TOP COURSE PLACEMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TEMPORARY WORK EASEMENTS THAT MAY BE REQUIRED FOR EXCAVATION AND ASSOCIATED DISTURBANCE OUTSIDE OF THE RIGHT-OF-WAY ON ADJACENT PRIVATE LANDS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND COORDINATE ANY REQUIRED BRACING OR RELOCATION OF ANY UTILITY POLE OR STRUCTURE WITH THE APPROPRIATE UTILITY COMPANY.
- ALL FILL TO ACHIEVE THE PROPOSED ELEVATIONS SHALL BE COMPACTED TO 95% PROCTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST AND COORDINATION OF THE TESTING AND DOCUMENTATION OF THE FILL MATERIAL AND THE COMPACTION OF THE FILL MATERIAL.
- THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT THE SURFACE OF ALL EXISTING ROADWAYS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SURFACE RESTORATION AND REPAIR RESULTING FROM THE CONTRACTORS ACTIVITIES. TREE TRIMMING SHALL BE PERFORMED BY THE CONTRACTOR AS NECESSARY WITHIN THE RIGHT-OF-WAY OR UTILITY EASEMENTS. ALL DISTURBED UTILITIES, DRIVEWAY CULVERTS, LAWNS, MAILBOXES, FENCES, SIGNS, DRIVEWAYS, DITCHES ETC. SHALL BE RESTORED TO THEIR ORIGINAL OR BETTER CONDITION, LINES, GRADES AND POSITIONS.
- ALL DISTURBANCE LIMITS AND SETBACKS SHALL BE STAKED OR FLAGGED IN THE FIELD PRIOR TO BEGINNING GRADING AND CLEARING ACTIVITIES.
- WATER SERVICES AND SEWER LATERALS SHALL BE SEPARATED BY 10 FEET MINIMUM HORIZONTALLY.
- PRIOR TO CONSTRUCTION, THE LOCATION OF ALL EXISTING UTILITY POLES, OVERHEAD UTILITIES AND UNDERGROUND UTILITIES ON THE SITE SHALL BE DETERMINED BY THE CONTRACTOR. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE DESIGN ENGINEER. THE COORDINATION AND COST FOR THE RELOCATION OR MODIFICATION OF ANY UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE COSTS FOR THIS UTILITY WORK SHALL BE PROVIDED TO THE OWNER AND DESIGN ENGINEER FOR REVIEW.

FALLING HEAD PERMIABILITY TEST PERFORMED ON 03/03/2026 BY TERRACON CONSULTANTS, INC.		
PERCOLATION TEST LOCATIONS	STABILIZED	PERCOLATION RATE
I-1 @ 5' DEPTH		2.30 IN./HR
I-2 @ 6' DEPTH		1.80 IN./HR
I-3 @ 6' DEPTH		2.0 IN./HR
I-4 @ 9' DEPTH		4.80 IN./HR
I-5 @ 12' DEPTH		7.0 IN./HR



SITE LOCATION MAP



SITE STATISTICS

TAX PARCEL I.D.:	86.2-1-23-1 86.2-1-25-0 (LLA)
PARCEL AREA:	37.27± ACRES 1.48± ACRES (LLA) 38.75± ACRES TOTAL
EXISTING ZONING:	N/A
PROPOSED DEVELOPMENT:	107,800 SF CTE BUILDING SUGAR HOUSE GREENHOUSE SALT SHED O & M GARAGE
PROVIDED PARKING:	80 STAFF PARKING SPACES 70 STUDENT DRIVER SPACES 45 OVERFLOW SPACES 195 SPACES TOTAL (7 ACCESSIBLE) 2 MID SIZE BUS SPACES 4 FLEET VEHICLE SPACES 2 TRACTOR TRAILER SPACES 4 FULL SIZE EV BUS SPACES 7 FULL SIZE BUS DROP-OFF/PICK-UP SPACES 5 STANDARD VEHICLE DROP-OFF/PICK-UP SPACES
UTILITY PROVISIONS:	SANITARY SEWER - PUBLIC WATER - PUBLIC STORMWATER - ON-SITE MITIGATION
IMPERVIOUS LOT COVERAGE:	20.7% (8.02± AC) PROVIDED

SHEET LIST TABLE		
SHEET NUMBER	SHEET DESIGNATION	SHEET DESCRIPTION
1	COV-1	COVER SHEET
2	LLA-1	LOT LINE ADJUSTMENT
3	ECCD-1	EXISTING CONDITIONS & DEMOLITION
4	LM-1	LAYOUT & MATERIALS
5	UG-1	UTILITIES & GRADING
6	SG-1	SPOT GRADING
7	ESC-1	EROSION & SEDIMENT CONTROL
8	PP-1	PLAN & PROFILE - ROAD A
9	LS-1	LANDSCAPING (1 of 2)
10	LS-2	LANDSCAPING (2 of 2)
11	LT-1	LIGHTING
12	DT-1	EROSION & SEDIMENT CONTROL DETAILS
13	DT-2	STORM DETAILS
14	DT-3	SANITARY DETAILS
15	DT-4	WATER DETAILS
16	DT-5	MISCELLANEOUS DETAILS (1 of 2)
17	DT-6	MISCELLANEOUS DETAILS (2 of 2)
18	DT-7	BASIN DETAILS
19	EA-1	EMERGENCY ACCESS PLAN
20	SBA-1	SCHOOL BUS ACCESS PLAN

UNAUTHORIZED ADDITION TO THIS LOCATION OF THE INSIGHT LANSING ENGINEERING, PC

ESSEX BOCES FACILITY
PLANK ROAD, TOWN OF MORIAH, ESSEX COUNTY, NEW YORK
REVISION RECORD/DESCRIPTION
DATE
PRELIMINARY / NOT FOR CONSTRUCTION

LANSING ENGINEERING
2485 W. 15TH AVENUE
SUITE 100
DENVER, CO 80202
(303) 733-8844



APPLICANT:
CDD ESSEX, LLC
15375 BLUE FISH CIRCLE
LAKEWOOD RANCH, FL 34202

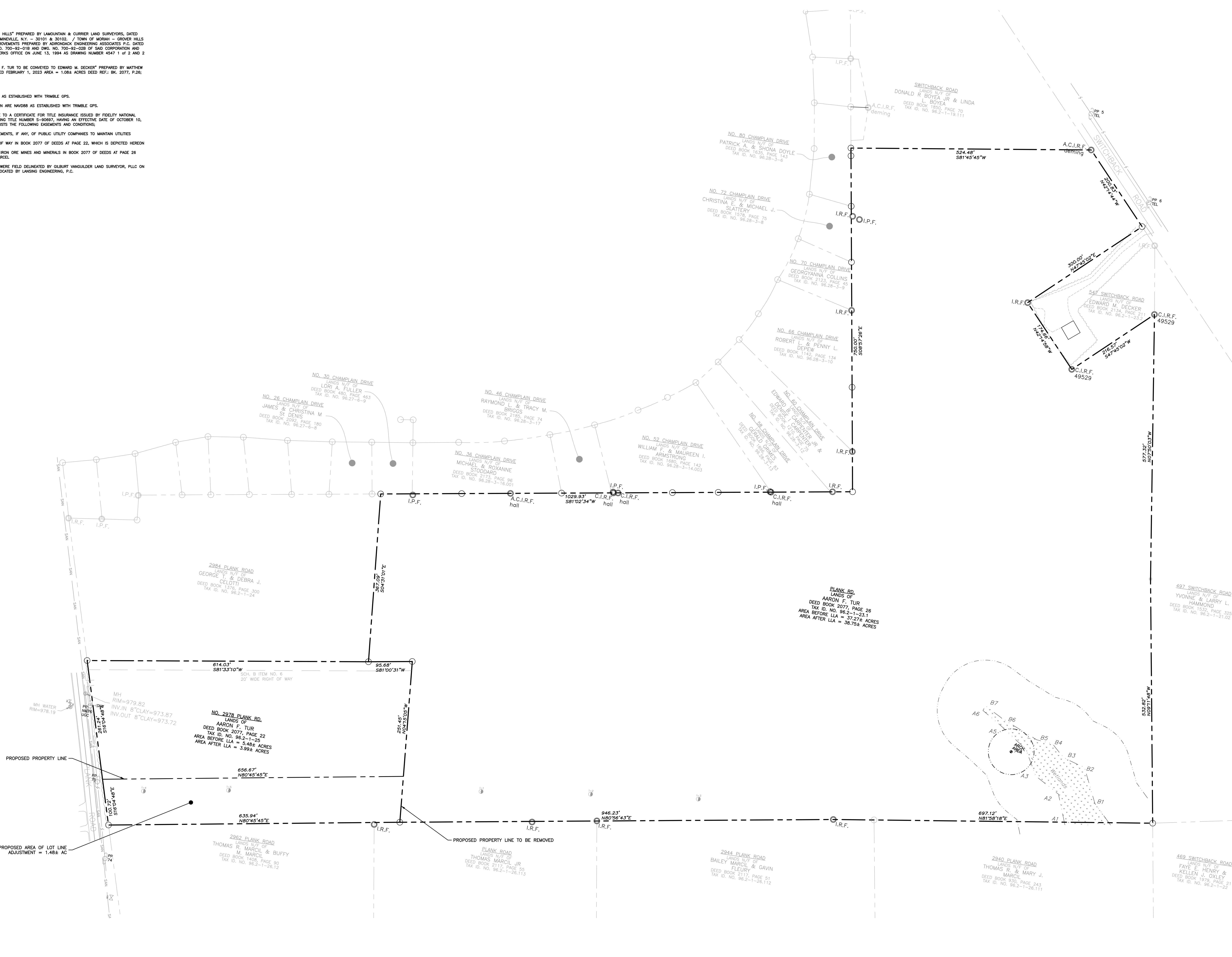
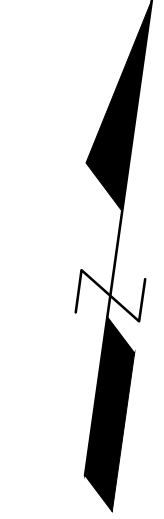
MAP REFERENCE:

1. "SUBDIVISION MAP OF GROVER HILLS" PREPARED BY LAMOUNTAIN & CURRIER LAND SURVEYORS, DATED SEPTEMBER 25, 1954 PROJECT: MINEVILLE, N.Y. - 30101 & 30102. / TOWN OF MORIAH - GROVER HILLS PROPOSED WATER & SEWER IMPROVEMENTS PREPARED BY ADRONACK ENGINEERING ASSOCIATES P.C. DATED JUNE 29, 1992 BEARING DMC. NO. 700-92-018 AND DMC. NO. 700-92-028 OF SAID CORPORATION AND FILED IN THE ESSEX COUNTY CLERKS OFFICE ON JUNE 13, 1994 AS DRAWING NUMBER 4547 1 of 2 AND 2 of 2.

2. "PARCEL 1: LANDS OF AARON F. TUR TO BE CONVEYED TO EDWARD M. DECKER" PREPARED BY MATTHEW F. LAVENIA LAND SURVEYOR, DATED FEBRUARY 1, 2023 AREA = 1.08± ACRES DEED REF.: BK. 2077, P.26; TAX MAP REF.: 96.2-1-23.0

MAP NOTES:

1. NORTH ORIENTATION IS NAD83 AS ESTABLISHED WITH TRIMBLE GPS.
2. ELEVATIONS DEPICTED HEREON ARE NAVD83 AS ESTABLISHED WITH TRIMBLE GPS.
3. REFERENCE IS HEREBY MADE TO A CERTIFICATE FOR TITLE INSURANCE ISSUED BY FIDELITY NATIONAL TITLE INSURANCE COMPANY BEARING TITLE NUMBER S-90897, HAVING AN EFFECTIVE DATE OF OCTOBER 10, 2025. SCHEDULE B SECTION 2 LISTS THE FOLLOWING EASEMENTS AND CONDITIONS:
 - ITEM NO. 5: RIGHTS AND EASEMENTS, IF ANY, OF PUBLIC UTILITY COMPANIES TO MAINTAIN UTILITIES
 - ITEM NO. 6: 20 FOOT RIGHT OF WAY IN BOOK 2077 OF DEEDS AT PAGE 22, WHICH IS DEPICTED HEREON
 - ITEM NO. 7: RESERVATION OF IRON ORE MINES AND MINERALS IN BOOK 2077 OF DEEDS AT PAGE 26 WHICH AFFECTS THE SUBJECT PARCEL.
4. WETLANDS DEPICTED HEREON WERE FIELD DELINEATED BY GILBERT VANHULDER LAND SURVEYOR, PLLC ON OCTOBER 22, 2025 AND FIELD LOCATED BY LANSING ENGINEERING, P.C.



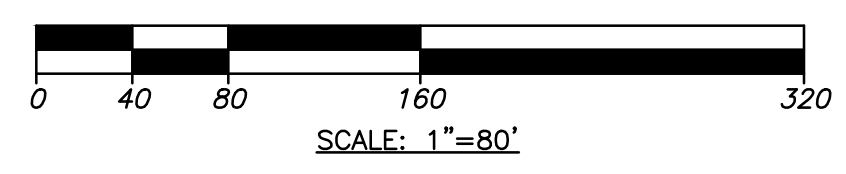
LEGEND

(DC)	DEED CALL
W/W	WITH WIRE
CLRS	CAPPED IRON ROD SET
I.P.F.	IRON PIPE FOUND
C.I.R.F.	CAPPED IRON ROD FOUND
114.0-2-39	IRON ROD FOUND
8.789 P.986	DEED BOOK & PAGE
I.R.F.	HOW OR FORMERLY
(174.5)	DEED INFORMATION
	OVERHEAD UTILITY LINES

"UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7208, SUB-DIVISION 2 OF THE NEW YORK STATE EASEMENT LAWS."

"ONLY COPIES OF THIS SURVEY MARKED WITH AN ORIGINAL OF THE LAND SURVEYOR'S EMBOSSED SEAL OR AN ORIGINAL RED INK SEAL SHALL BE CONSIDERED TO BE TRUE AND VALID COPIES."

LOT LINE ADJUSTMENT PLAN



LOT LINE ADJUSTMENT

PROJ. NO: 1126.00
 SCALE: AS SHOWN
 DATE: 02/25/2026

LLA-1
 SHEET 2 OF 20

ESSEX BOCES FACILITY
 PLANK ROAD, TOWN OF MORIAH, ESSEX COUNTY, NEW YORK

REVISIONS RECORD/DESCRIPTION

DATE

PRELIMINARY / NOT FOR CONSTRUCTION

LANSING ENGINEERING

ESSEX COUNTY, NEW YORK

REGISTERED PROFESSIONAL ENGINEER

NO. 11417

STATE OF NEW YORK

EX-151 888-586-88

UNAUTHORIZED ALTERATION OR ADDITION TO THIS SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7208, SUB-DIVISION 2 OF THE NEW YORK STATE EASEMENT LAWS.

LANSING ENGINEERING, P.C.

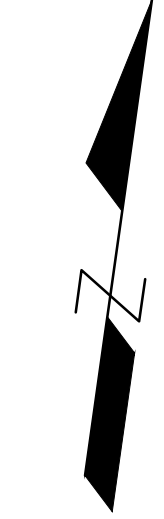
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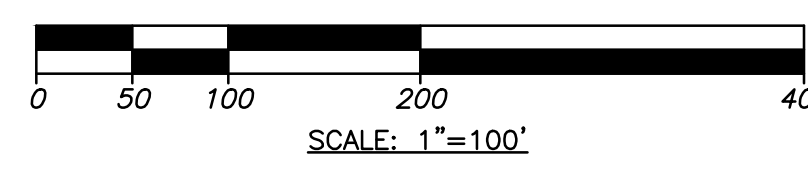
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MAP NOTES:

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2. ELEVATIONS DEPICTED HEREON ARE NAVD88 AS ESTABLISHED WITH TRIMBLE GPS.
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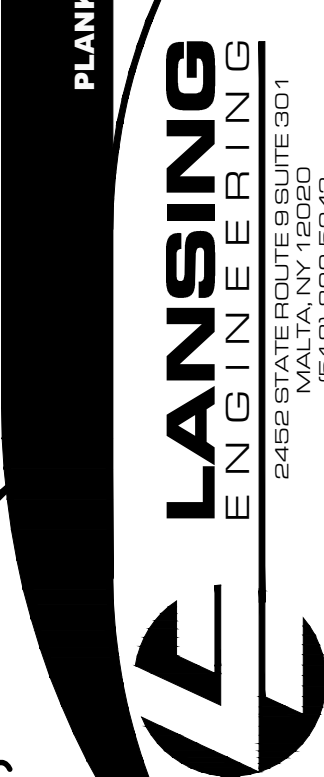


EXISTING CONDITIONS & DEMOLITION PLAN



UNAUTHORIZED OR ADDITIONAL TO THIS LOCATION OF THE INSIGHT LANSING ENGINEERING, P.C.

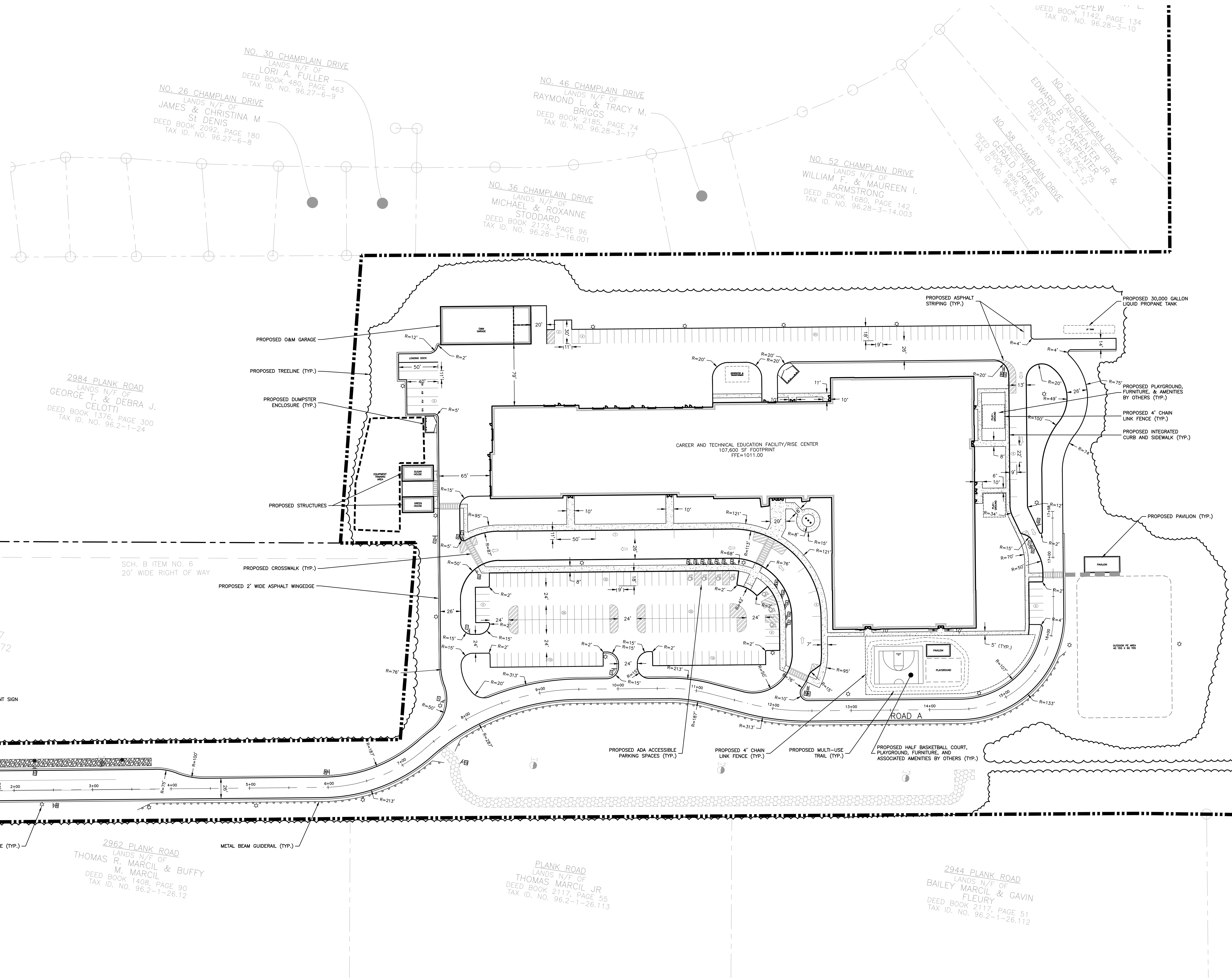
ESSEX BOCES FACILITY
 PLANK ROAD, TOWN OF MORIAH, ESSEX COUNTY, NEW YORK
 REVISION RECORD/DESCRIPTION
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PRELIMINARY / NOT FOR CONSTRUCTION



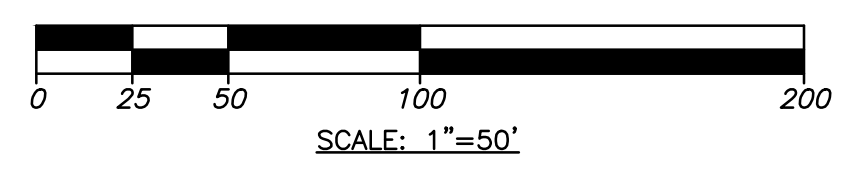
EXISTING CONDITIONS & DEMOLITION
 PROJ. NO: 1126.00
 SCALE: AS SHOWN
 DATE: 02/25/2026
ECD-1
 SHEET 3 OF 20

LEGEND	
EXISTING FEATURES	PROPOSED FEATURES
	FIRE HYDRANT
	GATE VALVE
	WATER LINE
	SANITARY LINE
	CATCH BASIN
	STORM/SANITARY MANHOLE
	STORM WATER LINE
	PROPERTY LINE
	EASEMENT LINE
	SWPPP GRADING LINE

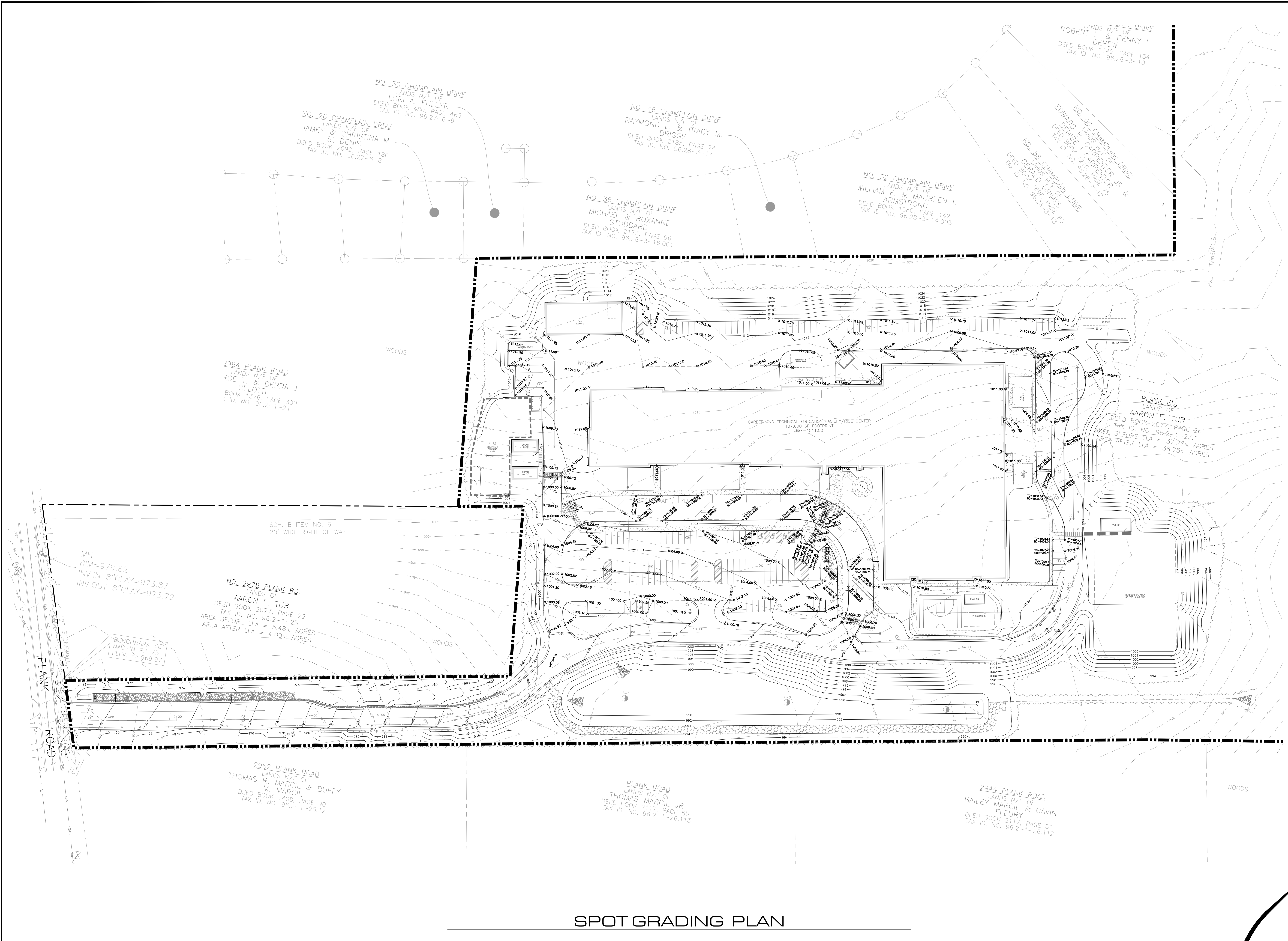
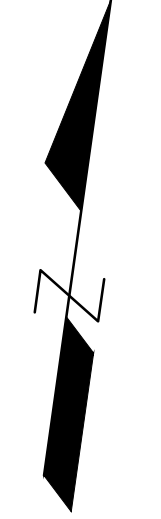
TRAFFIC CONTROL DEVICE SCHEDULE		
PLAN NO.	DESCRIPTION	QTY.
1	R1-1 "STOP" SIGN 30"x30"	6
2	R5-1 "DO NOT ENTER" SIGN	4
3	R7-1 "NO PARKING" SIGN	5
4	R7-8 "RESERVED PARKING" SIGN W/ R7-8A "VAN ACCESSIBLE" SIGN	7
5	R6-2L "ONE WAY" SIGN "LEFT"	2
6	R6-2R "ONE WAY" SIGN "RIGHT"	2
7	R3-2 "NO LEFT TURN" SIGN	1
8	R2-1 "SPEED LIMIT 30" SIGN	2
9	STREET IDENTIFICATION SIGN	1
10	STORMWATER MANAGEMENT FACILITY NOTIFICATION SIGN	1



LAYOUT & MATERIALS PLAN



UNAUTHORIZED REPRODUCTION OR ADDITION TO THIS DOCUMENT WITHOUT THE WRITTEN CONSENT OF LANSING ENGINEERING, P.C.
 ESSEX BOCES FACILITY
 PLANK ROAD, TOWN OF MIDDLEBURY, ESSEX COUNTY, NEW YORK
 REVISION RECORD/DESCRIPTION
 DATE
PRELIMINARY / NOT FOR CONSTRUCTION
LANSING ENGINEERING
 200 WEST MAIN STREET
 MIDDLEBURY, NY 14850
 (815) 885-8848
 LAYOUT & MATERIALS
 PROJ. NO: 1126.00
 SCALE: AS SHOWN
 DATE: 02/25/2026
LM-1
 SHEET 4 OF 20



NO. 30 CHAMPLAIN DRIVE
LANDS N/F OF
LORI A. FULLER
DEED BOOK 480, PAGE 463
TAX ID. NO. 96.27-6-9

NO. 26 CHAMPLAIN DRIVE
LANDS N/F OF
JAMES & CHRISTINA M
ST DENIS
DEED BOOK 2092, PAGE 180
TAX ID. NO. 96.27-6-8

NO. 46 CHAMPLAIN DRIVE
LANDS N/F OF
RAYMOND L. & TRACY M.
BRIGGS
DEED BOOK 2185, PAGE 74
TAX ID. NO. 96.28-3-17

NO. 36 CHAMPLAIN DRIVE
LANDS N/F OF
MICHAEL & ROXANNE
STODDARD
DEED BOOK 2173, PAGE 96
TAX ID. NO. 96.28-3-16.001

NO. 52 CHAMPLAIN DRIVE
LANDS N/F OF
WILLIAM F. & MAUREEN I.
ARMSTRONG
DEED BOOK 1680, PAGE 142
TAX ID. NO. 96.28-3-14.003

NO. 58 CHAMPLAIN DRIVE
LANDS N/F OF
GERALD GRIMES
DEED BOOK 1936, PAGE 93
TAX ID. NO. 96.28-3-15

NO. 60 CHAMPLAIN DRIVE
LANDS N/F OF
EDWARD B. DEWSE, CARPENTER JR. &
DEWSE
DEED BOOK 1210, PAGE 79
TAX ID. NO. 96.28-3-12

2984 PLANK ROAD
LANDS N/F OF
RGE T. & DEBRA J.
CELOTTI
BOOK 1376, PAGE 300
TAX ID. NO. 96.2-1-24

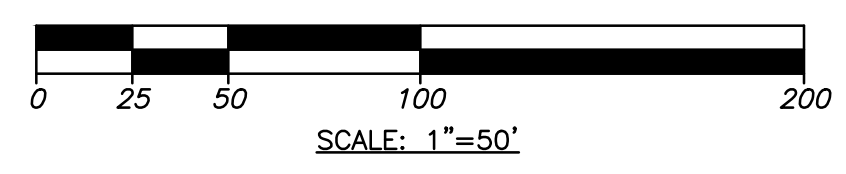
NO. 2978 PLANK RD.
LANDS OF
AARON F. TUR
DEED BOOK 2077, PAGE 22
TAX ID. NO. 96.2-1-25
AREA BEFORE LLA = 5.48± ACRES
AREA AFTER LLA = 4.00± ACRES

2962 PLANK ROAD
LANDS N/F OF
THOMAS R. MARCIL & BUFFY
M. MARCIL
DEED BOOK 1408, PAGE 90
TAX ID. NO. 96.2-1-26.12

PLANK ROAD
LANDS N/F OF
THOMAS MARCIL JR
DEED BOOK 2117, PAGE 55
TAX ID. NO. 96.2-1-26.113

2944 PLANK ROAD
LANDS N/F OF
BAILEY MARCIL & GAVIN
FLEURY
DEED BOOK 2117, PAGE 51
TAX ID. NO. 96.2-1-26.112

SPOT GRADING PLAN



UNAUTHORIZED
ADDITION TO THIS
DRAWING IS PROHIBITED
BY THE SIGNATURE
LOCATION OF THE INKS
AND THE SEAL OF THE
REGISTERED PROFESSIONAL
ENGINEER, P.E.
LANSING ENGINEERING, P.C.

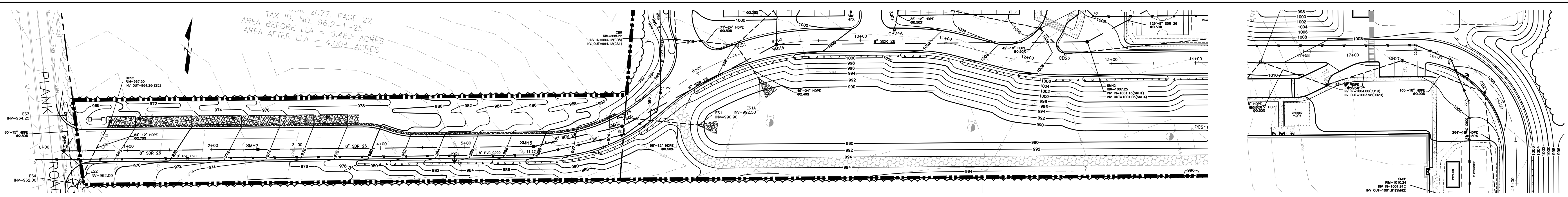
ESSEX BOCES FACILITY
PLANK ROAD, TOWN OF INDIAN, ESSEX COUNTY, NEW YORK

REVISIONS:
DATE: _____
DESCRIPTION: _____

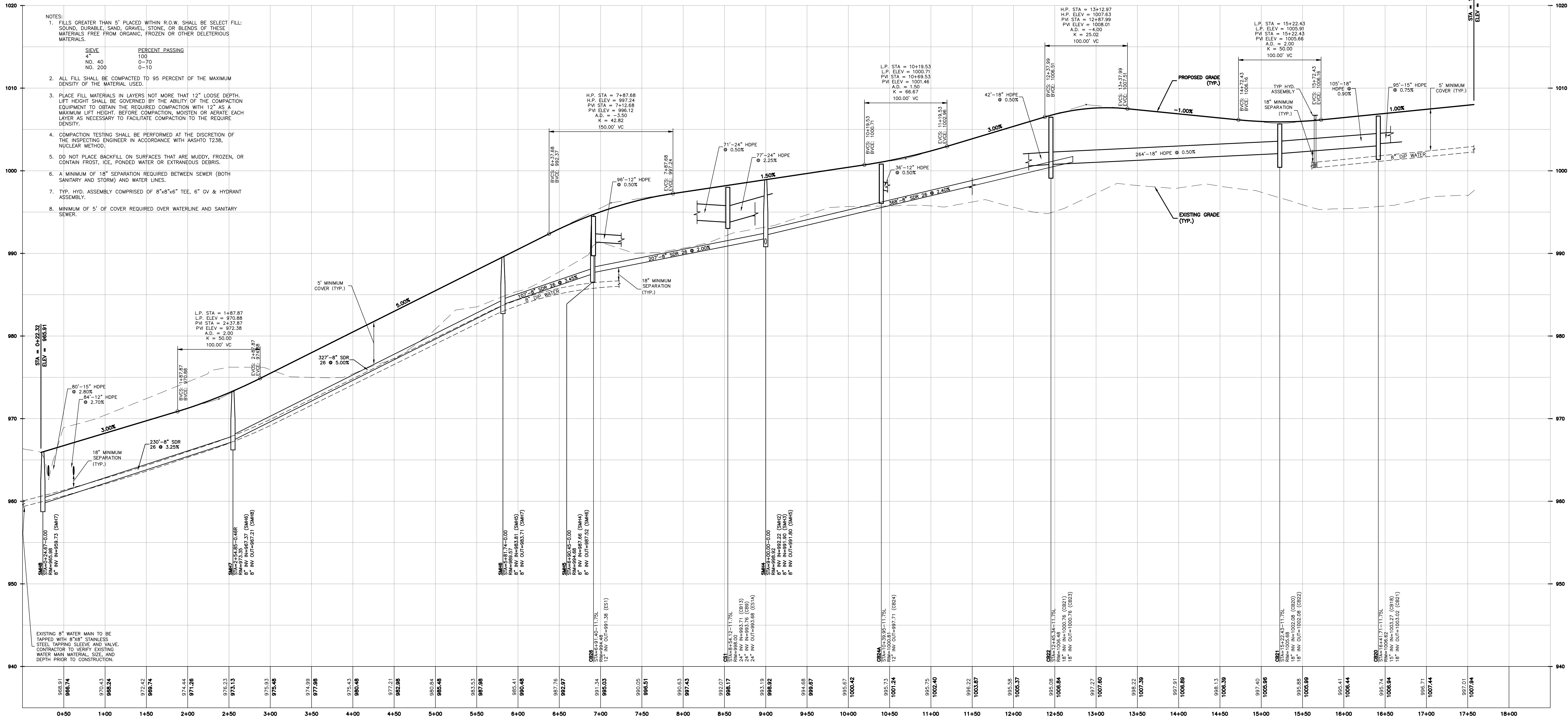
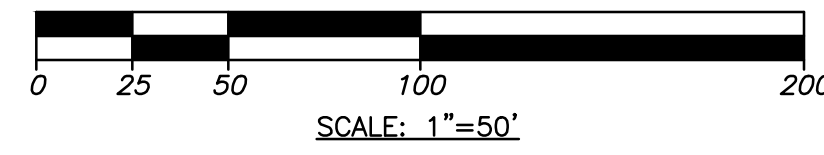


SPOT GRADING

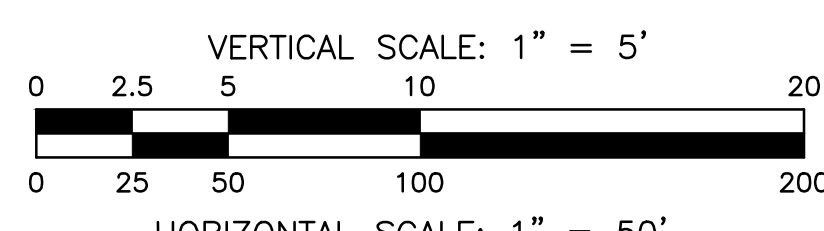
TAX ID: NO. 2077, PAGE 22
 AREA BEFORE LLA = 5.48± ACRES
 AREA AFTER LLA = 4.00± ACRES



PLAN - ROAD A STA 0+00 TO 17+57.48



- NOTES:
- FILLS GREATER THAN 5' PLACED WITHIN R.O.W. SHALL BE SELECT FILL: SOUND, DURABLE, SAND, GRAVEL, STONE, OR BLENDS OF THESE MATERIALS FREE FROM ORGANIC, FROZEN OR OTHER DELETERIOUS MATERIALS.
 - ALL FILL SHALL BE COMPACTED TO 95 PERCENT OF THE MAXIMUM DENSITY OF THE MATERIAL USED.
 - PLACE FILL MATERIALS IN LAYERS NOT MORE THAN 12" LOOSE DEPTH. LIFT HEIGHT SHALL BE GOVERNED BY THE ABILITY OF THE COMPACTION EQUIPMENT TO OBTAIN THE REQUIRED COMPACTION WITH 12" AS A MAXIMUM LIFT HEIGHT, BEFORE COMPACTION, MOISTEN OR AERATE EACH LAYER AS NECESSARY TO FACILITATE COMPACTION TO THE REQUIRE DENSITY.
 - COMPACTION TESTING SHALL BE PERFORMED AT THE DISCRETION OF THE INSPECTING ENGINEER IN ACCORDANCE WITH AASHTO T238, NUCLEAR METHOD.
 - DO NOT PLACE BACKFILL ON SURFACES THAT ARE MUDDY, FROZEN, OR CONTAIN FROST, ICE, PONDED WATER OR EXTRANEOUS DEBRIS.
 - A MINIMUM OF 18" SEPARATION REQUIRED BETWEEN SEWER (BOTH SANITARY AND STORM) AND WATER LINES.
 - TYP. HYD. ASSEMBLY COMPRISED OF 8"x8"x6" TEE, 6" CV & HYDRANT ASSEMBLY.
 - MINIMUM OF 5' OF COVER REQUIRED OVER WATERLINE AND SANITARY SEWER.



PROFILE - ROAD A STA 0+00 TO 17+57.48

UNAUTHORIZED
 REPRODUCTION
 OR
 ADDITION TO THIS
 DOCUMENT IS PROHIBITED
 WITHOUT THE WRITTEN
 PERMISSION OF THE
 ENGINEER OF RECORD
 LANSING ENGINEERING, P.C.

DATE: _____
 REVISIONS: RECORD/DESCRIPTION

PRELIMINARY / NOT FOR CONSTRUCTION

ESSEX BOCES FACILITY
 PLANK ROAD, TOWN OF MORIAH, ESSEX COUNTY, NEW YORK

LANSING ENGINEERING
 245 WEST 10TH STREET
 SUITE 200
 ALBANY, NY 12202
 (518) 888-8888

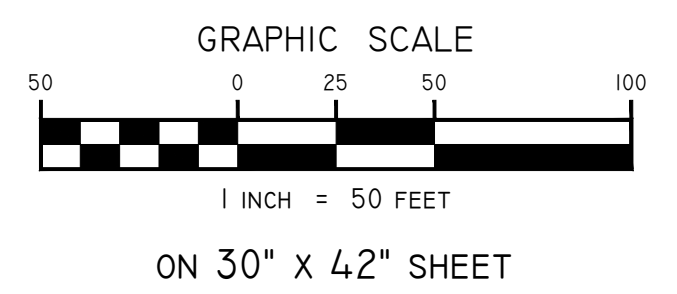
PLAN &
 PROFILE -
 ROAD A

PROJ. NO: 1126.00
 SCALE: AS SHOWN
 DATE: 02/25/2026

PP-1
 SHEET 8 OF 20

LEGEND

	PROPERTY LINE
	EXISTING TREE LINE
	PROPOSED SHRUBS/ GROUND COVER
	PROPOSED TREES
	PROPOSED TURF GRASS AREA
	NO MOW GRASS
	ERN MX-180



MAP INFORMATION:
BASE MAP INFORMATION OBTAINED FROM LANSING ENGINEERING

DIG SAFE NOTE:
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REVISIONS

DATE	DESCRIPTION

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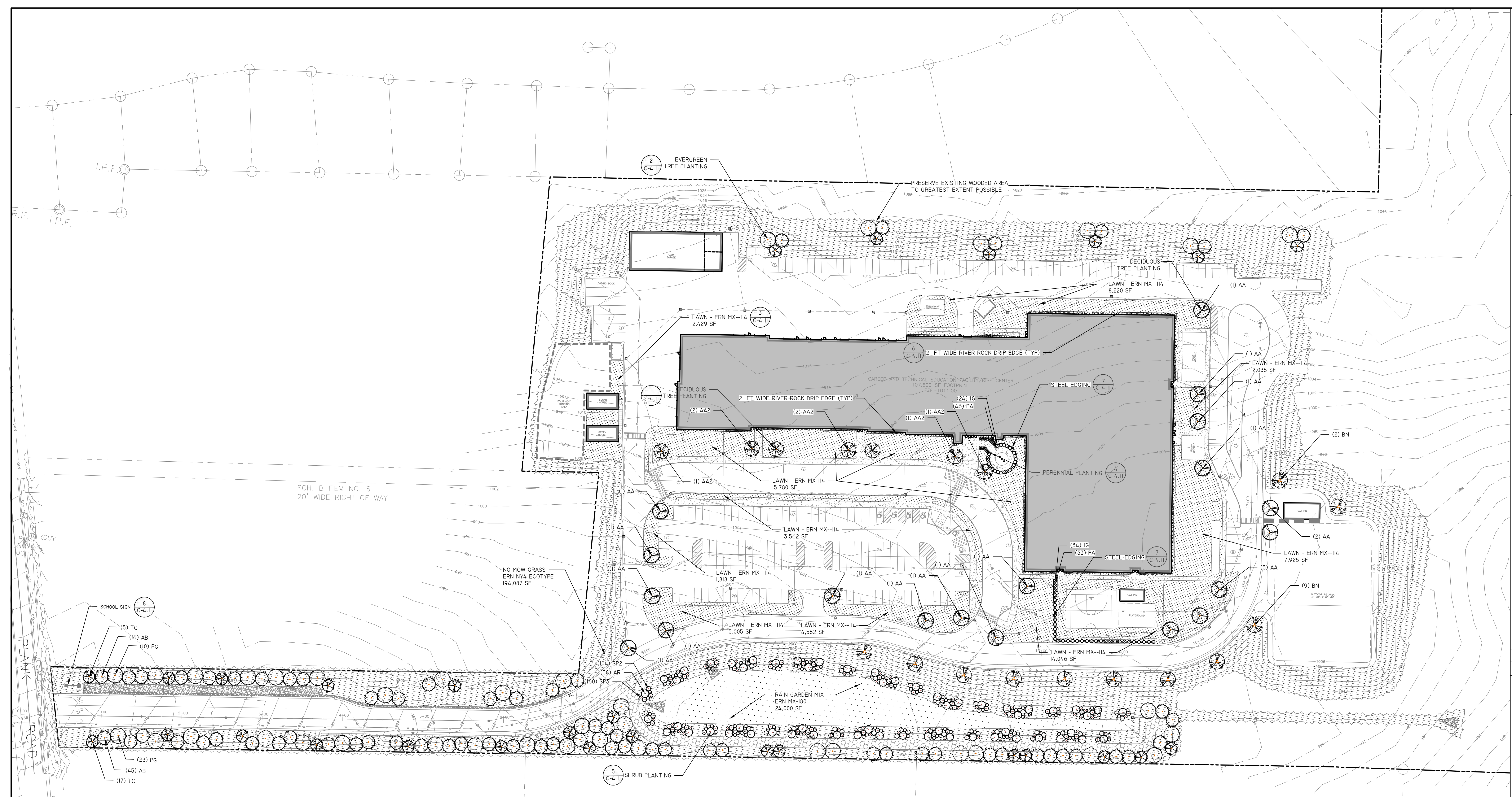
DRAWINGS
NOT FOR
CONSTRUCTION

PREPARED FOR
LANSING ENGINEERING
2452 STATE ROUTE 9
MALTA, NY 12020

PROJECT
MORIAH BOCES
PLANK ROAD
TOWN OF MORIAH, NY

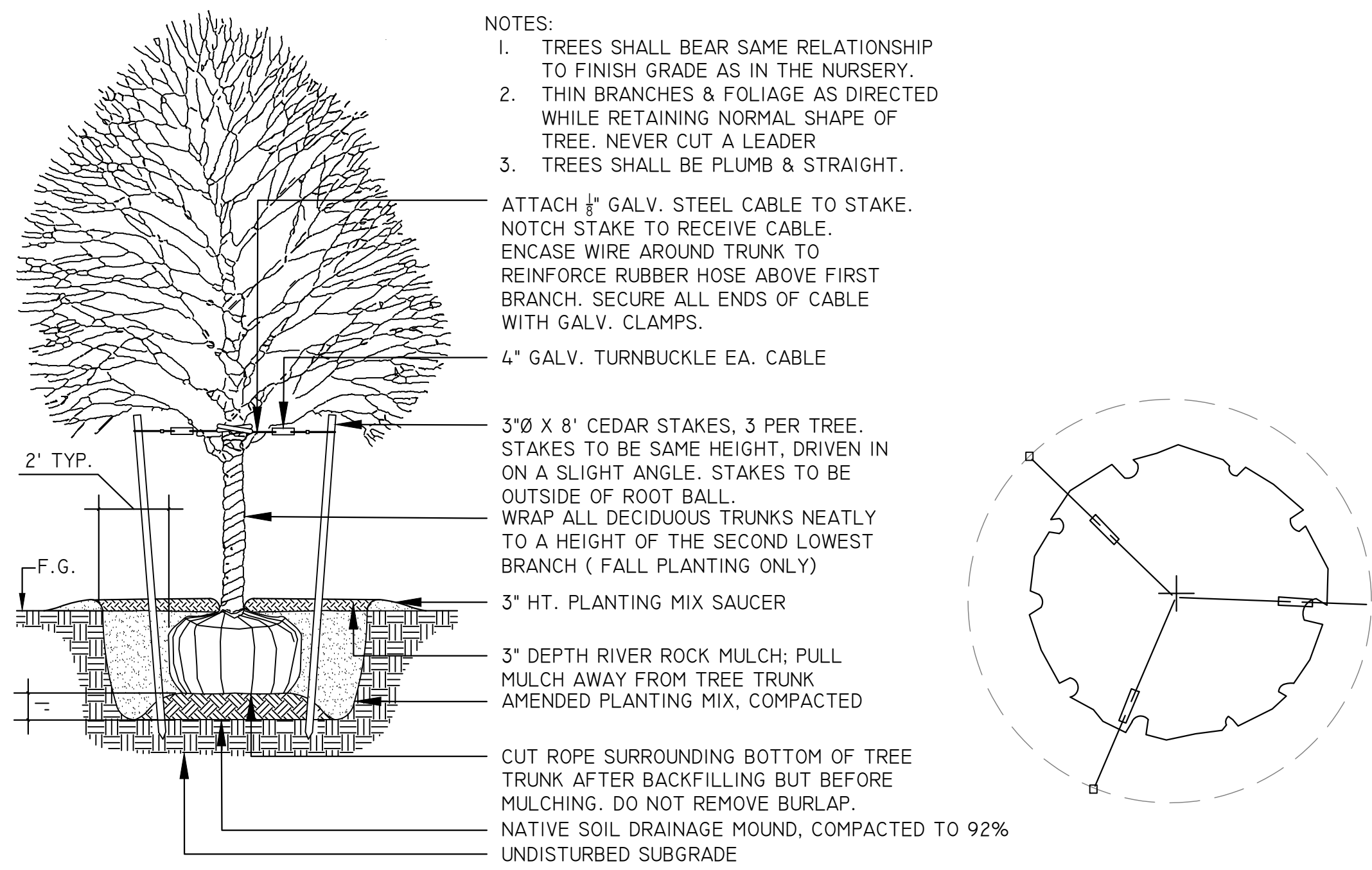
DRAWING TITLE
PLANTING PLAN

PROJECT NO.	25054
DATE:	DRAWING NO.
03/13/2026	LS-I
DWG 9	



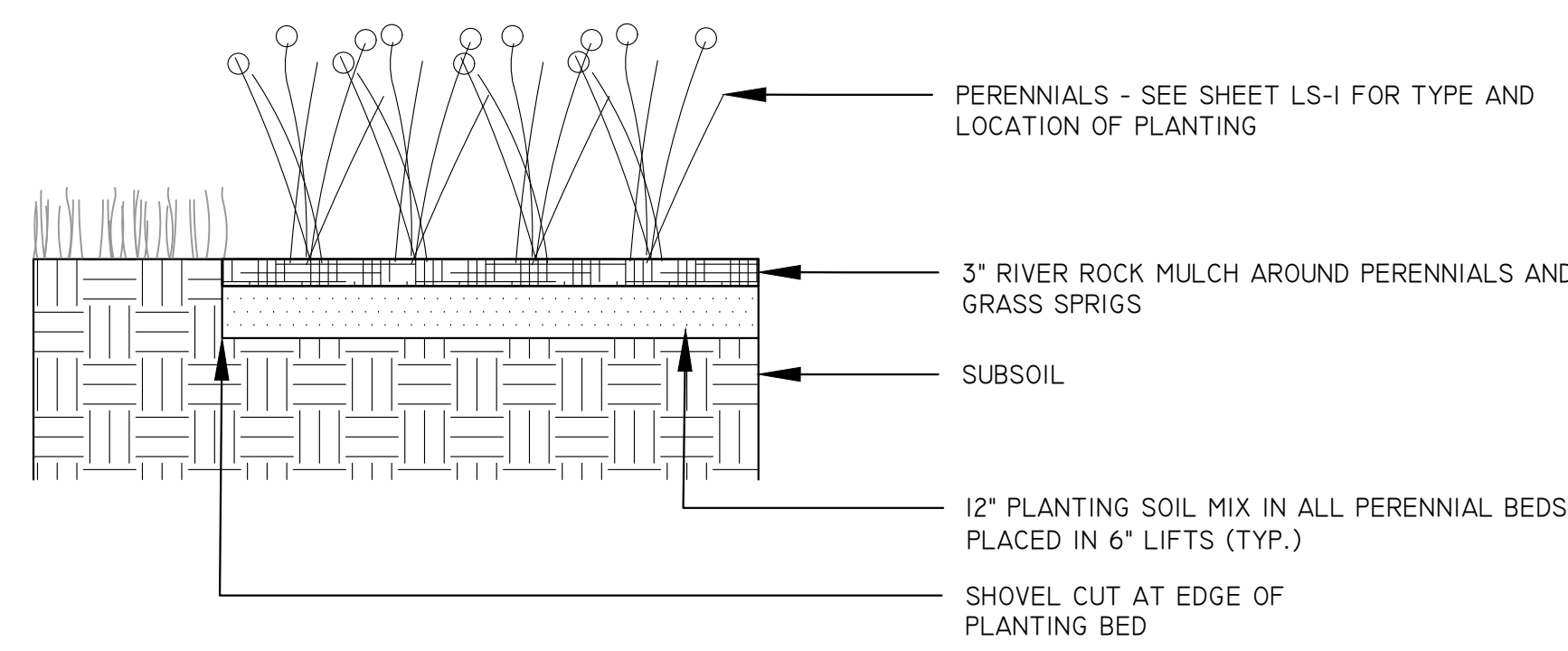
PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	CONTAINER	DETAIL	REMARKS
TREES							
	AB	68	ABIES BALSAMEA / BALSAM FIR	6' HT.	B&B		
	AA	19	ACER RUBRUM 'ARMSTRONG' / ARMSTRONG RED MAPLE	2" CAL.	B&B		
	AA2	8	ACER RUBRUM 'AUTUMN FLAME' / AUTUMN FLAME RED MAPLE	2" CAL.	B&B		
	BN	11	BETULA NIGRA / RIVER BIRCH MULTI-TRUNK	2" CAL.	B&B		
	PG	42	PICEA GLAUCA / WHITE SPRUCE	6' HT.	B&B		
	TC	29	TSUGA CANADENSIS / EASTERN HEMLOCK	6' HT.	B&B		
		177	SUBTOTAL:				
SHRUBS							
	AR	58	ALNUS INCANA RUGOSA / SPECKLED ALDER	3 GAL.	CONTAINER		
	IG	58	ILEX GLABRA / INKBERRY HOLLY	3 GAL.	CONTAINER		
	PA	78	POLYPODIUM APPALACHIANUM / APPALACHIAN POLYPODY FERN	1 GAL.	CONTAINER		
	SP3	160	SALIX DISCOLOR / PUSSY WILLOW	3" HT.	CONTAINER		
	SP2	104	SALIX PYRIFOLIA / BALSAM WILLOW	3" HT.	CONTAINER		
		458	SUBTOTAL:				
			RAIN GARDEN SEED MIX	ERN MX-180 24,000 SF	15 LB/ACRE		
			LAWN - CONSERVATION MIX	ERN MX-114 59,661 SF	3-5 LB/1000 SF		
			NO MOW GRASS - INDIAN GRASS	ERNST - NY4 ECOTYPE 194,087 SF	6 LB/ACRE		



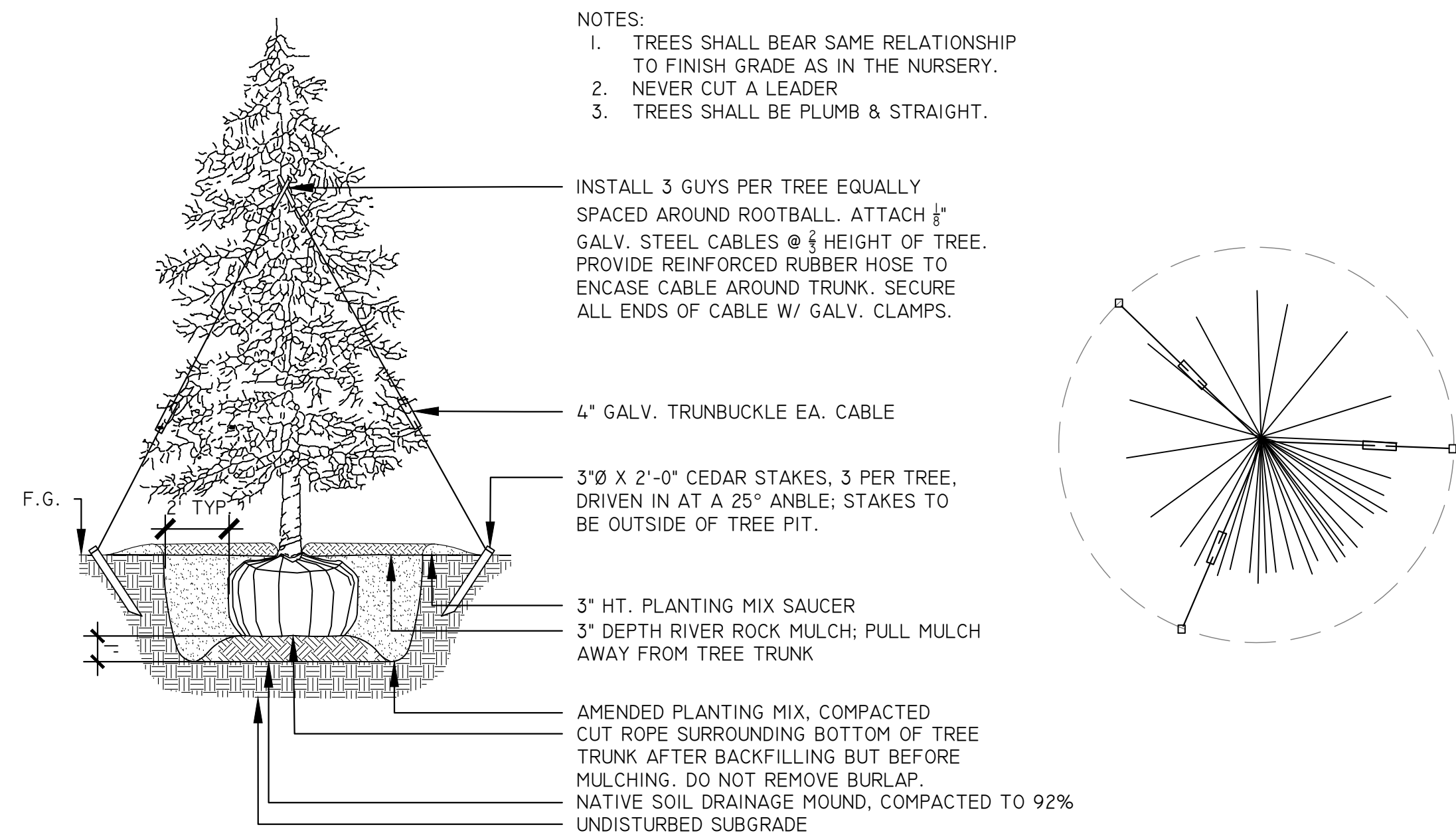
1 DECIDUOUS TREE PLANTING

SCALE: N.T.S.



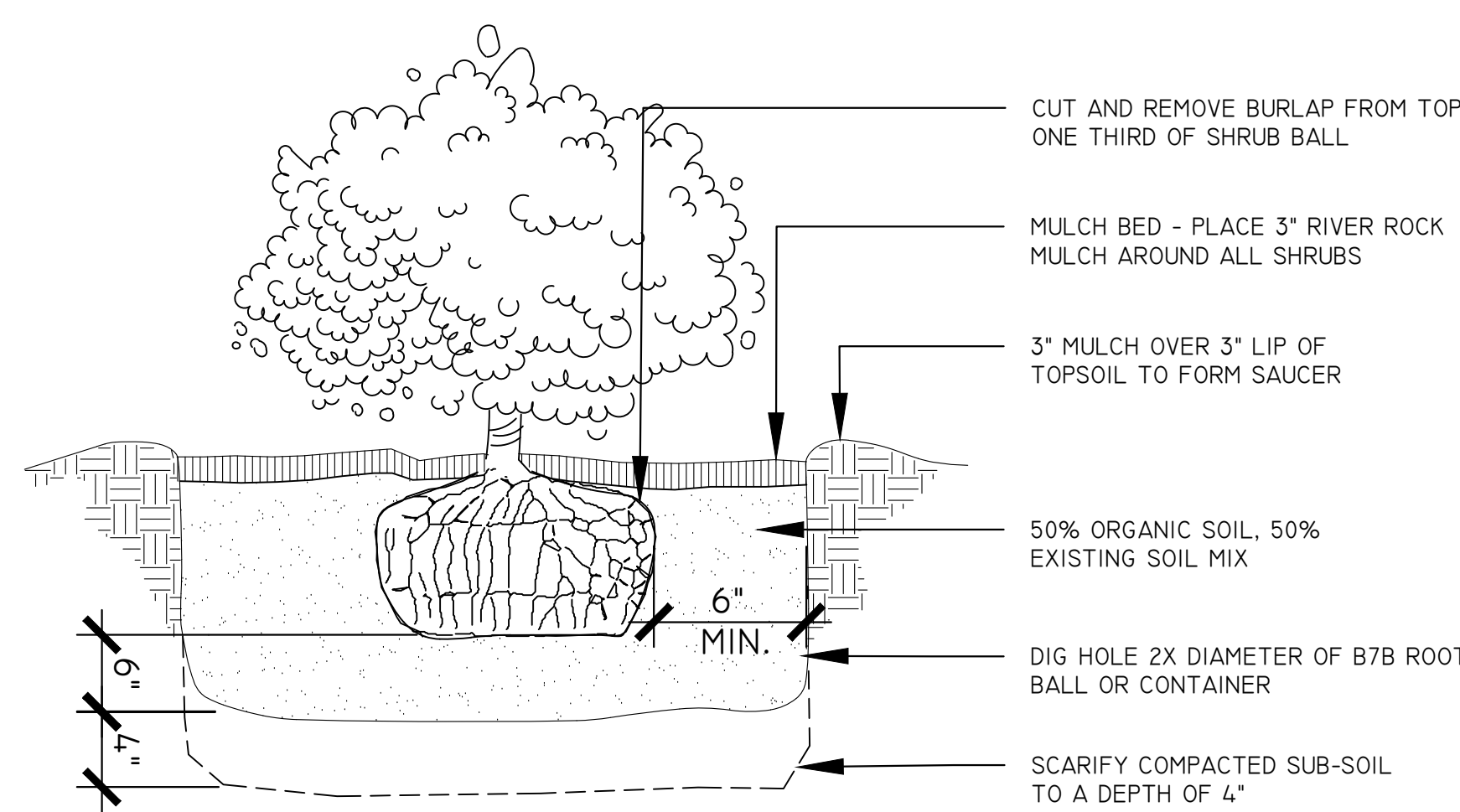
4 PERENNIAL & GRASS PLANTING

SCALE: N.T.S.



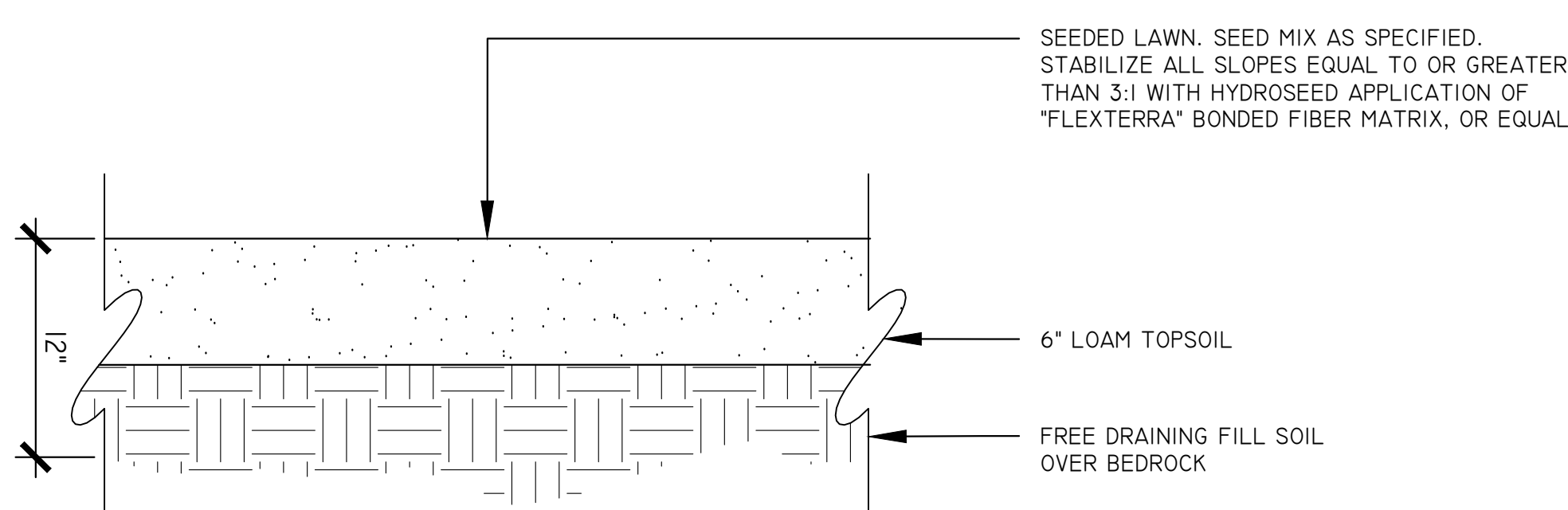
2 EVERGREEN TREE PLANTING

SCALE: N.T.S.



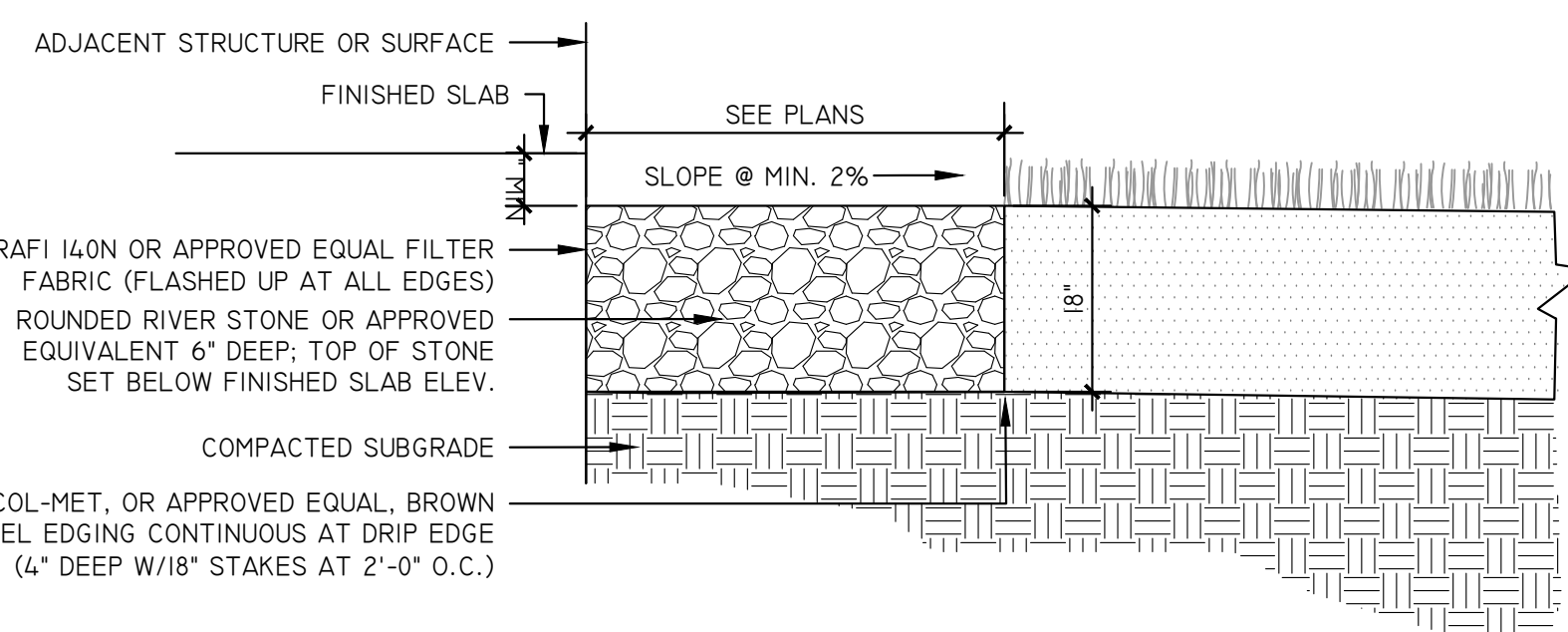
5 SHRUB (B&B) DETAIL

SCALE: N.T.S.



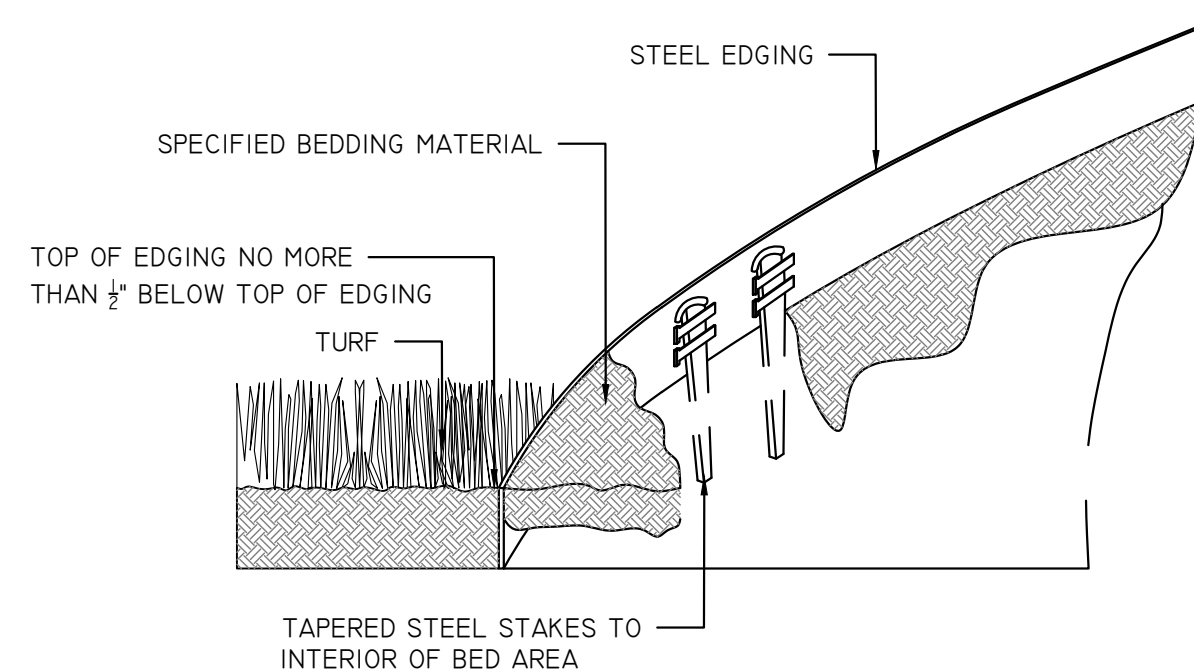
3 SEEDED AREA

SCALE: N.T.S.



6 DRIP EDGE & STONE SURFACE DETAIL

SCALE: N.T.S.



NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

7 STEEL EDGING DETAIL

SCALE: N.T.S.



8 SIGN DETAIL

SCALE: N.T.S.

PLANTING NOTES:

- ALL PLANT BEDS TO BE MULCHED WITH 3" DEEP SHREDDED CEDAR-NATURAL COLOR, UNLESS OTHERWISE NOTED ON THE PLANS.
- PRIOR TO PLANTING, CONTRACTOR SHALL LOCATE, VERIFY, AND REPORT ANY CONFLICTS WITH EXISTING UTILITY LINES TO THE LANDSCAPE ARCHITECT.
- ALL NEW PLANT MATERIAL SHALL CONFORM TO THE MINIMAL GUIDELINES ESTABLISHED BY THE AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSEYMEN, INC. AND SHALL BE OF SPECIMEN QUALITY UNLESS APPROVED OTHERWISE BY LANDSCAPE ARCHITECT.
- WRITTEN APPROVAL IS REQUIRED FROM LANDSCAPE ARCHITECT OF ANY PROPOSED SUBSTITUTIONS OF PLANT MATERIAL. CHANGED PLANTS SHALL BE EQUIVALENT FORM, HEIGHT, FLOWER, COLOR, LEAF, SIZE, BRANCHING, CULTURE AND FRUIT.
- PRIOR TO COMMENCEMENT OF PLANTING, STAKE LOCATION OF ALL PLANTINGS FOR APPROVAL BY LANDSCAPE ARCHITECT.
- SCHEDULE DELIVERY OF PLANTS ONLY IN REASONABLE TIME AS TO WHEN THEY CAN BE INSTALLED. PLANTS TO BE INSPECTED BY LANDSCAPE ARCHITECT AT DELIVERY.
- MAINTENANCE TO BEGIN IMMEDIATELY FOLLOWING INSTALLATION OF PLANT MATERIALS UNTIL FINAL ACCEPTANCE.
- TREES SHALL NOT BE PLANTED BEFORE ACCEPTANCE OF ROUGH GRADING. TREES SHALL BE PLANTED 3" HIGHER THAN PREVIOUS GRADE. SHRUBS AND GROUND COVER SHALL BE PLANTED AS THE SAME RELATIONSHIP TO GRADE AS PREVIOUS GRADE.
- PLANT MATERIAL QUANTITIES TO BE PROVIDED BY CONTRACTOR AS SHOWN ON DRAWINGS.
- UNLESS NOTED ON PLANT LIST, PLANTS TO BE BALLED AND BURLAPPED OR CONTAINER GROWN.

MAP INFORMATION:
BASE MAP INFORMATION OBTAINED FROM LANSING ENGINEERING

DIG SAFE NOTE:
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REVISIONS	
DATE	DESCRIPTION

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DRAWINGS
NOT FOR
CONSTRUCTION

PREPARED FOR	
LANSING ENGINEERING 2452 STATE ROUTE 9 MALTA, NY 12020	
PROJECT	
MORIAH BOCES PLANK ROAD TOWN OF MORIAH, NY	
DRAWING TITLE	
CONSTRUCTION DETAILS	
PROJECT NO.	25054
DATE:	DRAWING NO.
03/13/2026	LS-2
DWG10	

SCHEDULE	SYMBOL	LABEL	QTY	MANUFACTURER	CATALOG	DESCRIPTION	LAMP OUTPUT	LLF	TOTAL OUTPUT	INPUT POWER
	⊙	A	8	LITHONIA LIGHTING	DSX0 LED P6 40K 70CRI BLC3 EGS	D-SERIES SIZE 0 AREA LUMINAIRE P6 PERFORMANCE PACKAGE 4000K CCT 70 CRI TYPE 3 EXTREME BACKLIGHT CONTROL EXTERNAL GLARE SHIELD	11549	1	11549	137
	⊙	AA	1	LITHONIA LIGHTING	DSX0 LED P6 40K 70CRI BLC3 EGS	D-SERIES SIZE 0 AREA LUMINAIRE P6 PERFORMANCE PACKAGE 4000K CCT 70 CRI TYPE 3 EXTREME BACKLIGHT CONTROL EXTERNAL GLARE SHIELD	11549	1	23098	274
	⊙	B	7	LITHONIA LIGHTING	FIGURE DSX0 LED P6 40K 70CRI 14M WOLV 100BXD POLE SSS 25 4C DM19AS DBBXD	D-SERIES SIZE 0 AREA LUMINAIRE P6 PERFORMANCE PACKAGE 4000K CCT 70 CRI TYPE 4 MEDIUM	17391	0.9	17391	137
	⊙	BB	7	LITHONIA LIGHTING	FIGURE DSX0 LED P6 40K 70CRI 14M WOLV 100BXD POLE SSS 25 4C DM28AS DBBXD	D-SERIES SIZE 0 AREA LUMINAIRE P6 PERFORMANCE PACKAGE 4000K CCT 70 CRI TYPE 4 MEDIUM	17391	0.9	34781	274
	⊙	C	18	NLS LIGHTING LLC	NV-W-13-16L-1-40K	LED LUMINAIRE	6385	0.9	6385	56

D-Series Size 0 LED Area Luminaire

Specifications:
 Dimensions: 14" x 14" x 14"
 Weight: 1.5 lbs
 Mounting: Pole Mount
 Input Power: 137W
 Output: 11549 lumens

Introduction:
 The D-Series Size 0 LED Area Luminaire is a high performance, high efficiency, long life luminaire. It features a glare shield and a control external glare shield for superior performance. The luminaire is designed for use in a variety of applications, including parking lots, walkways, and general area lighting.

Key Features:
 - High Performance LED
 - Glare Shield
 - Control External Glare Shield
 - High Efficiency
 - Long Life

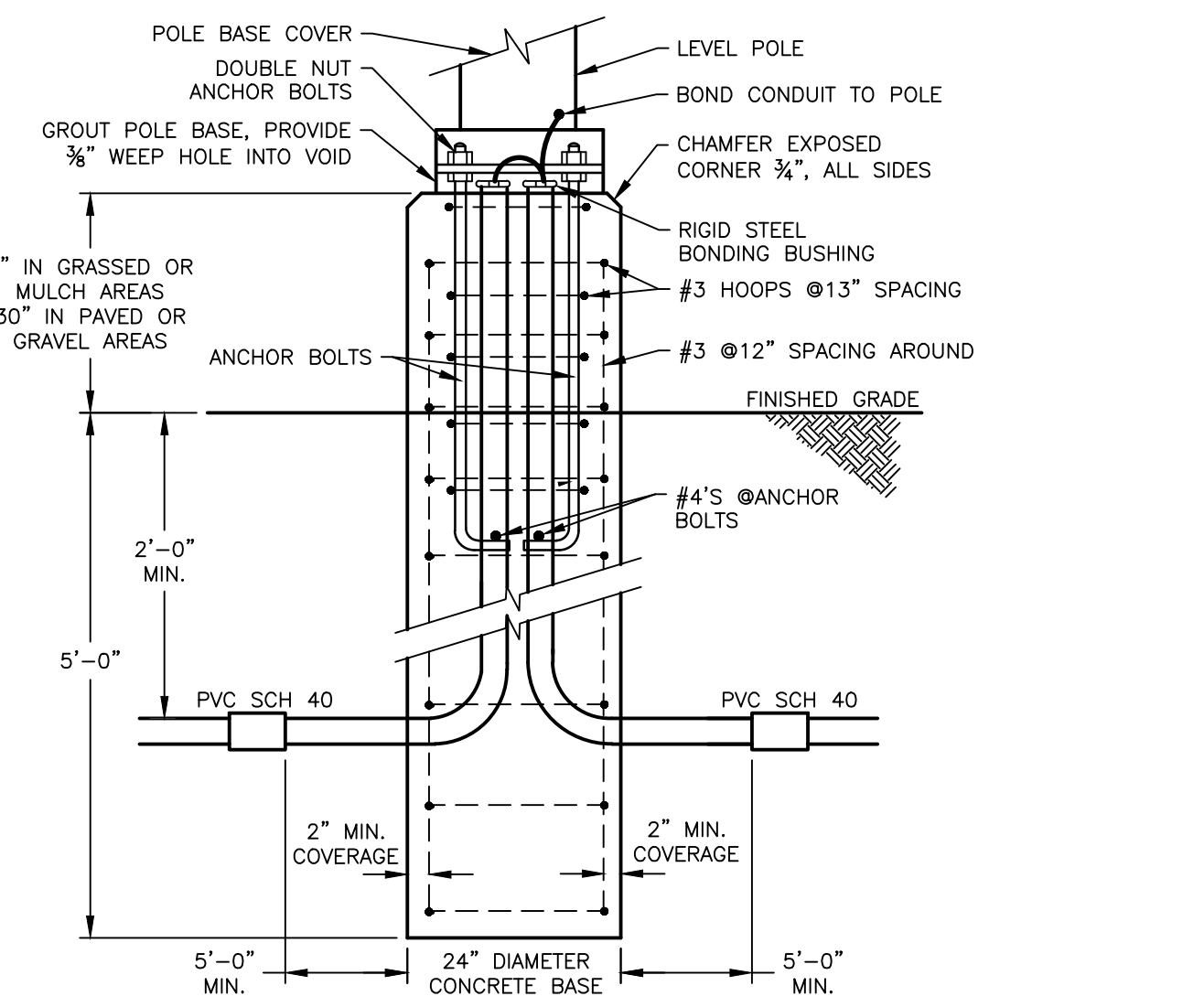
NLS LIGHTING

ARCHITECTURAL HIGH PERFORMANCE FULL CUTOFF WALL MOUNT

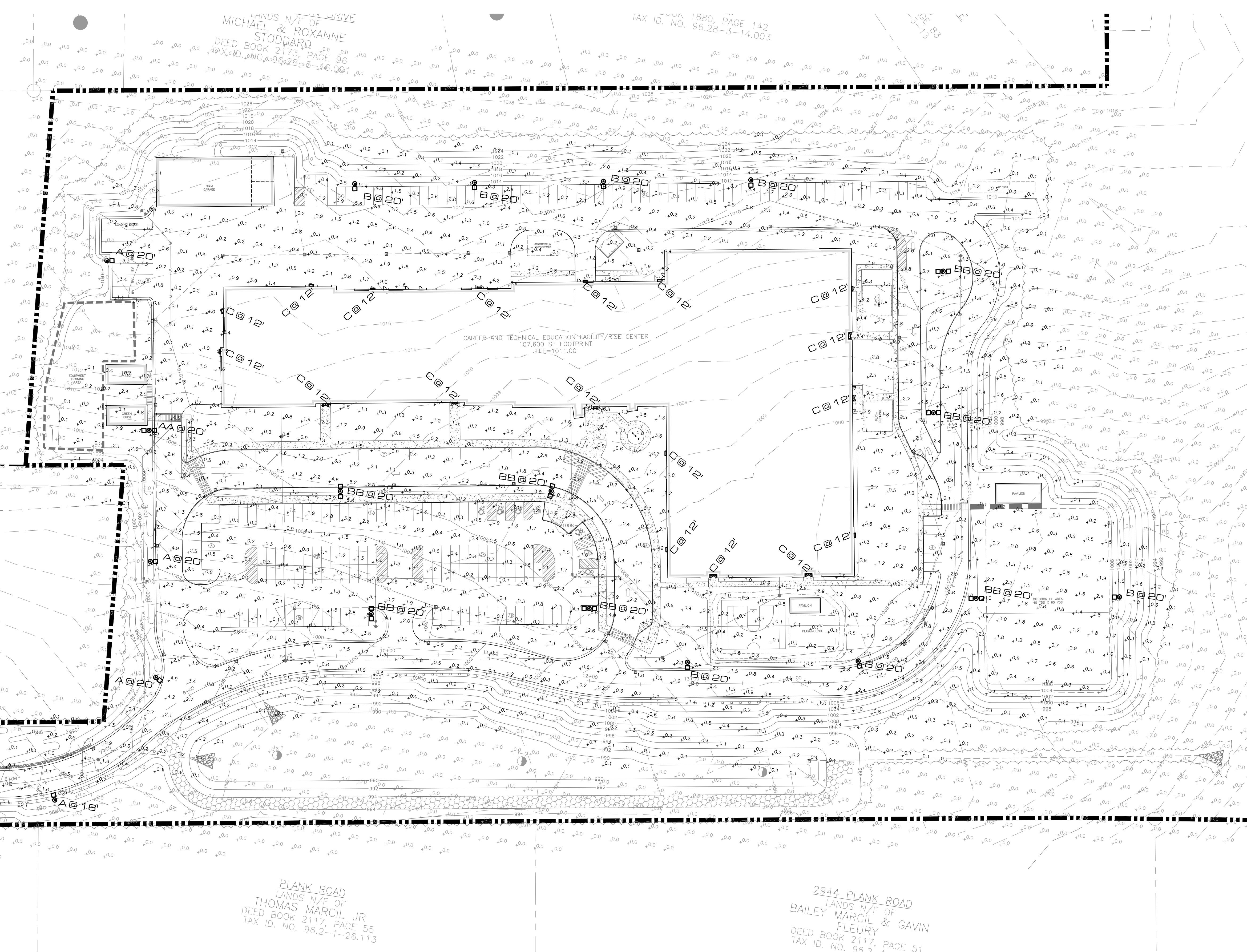
Specifications:
 Dimensions: 14" x 14" x 14"
 Weight: 1.5 lbs
 Mounting: Wall Mount
 Input Power: 137W
 Output: 11549 lumens

Introduction:
 The NV-W LED Area Luminaire is a high performance, high efficiency, long life luminaire. It features a full cutoff design and a control external glare shield for superior performance. The luminaire is designed for use in a variety of applications, including parking lots, walkways, and general area lighting.

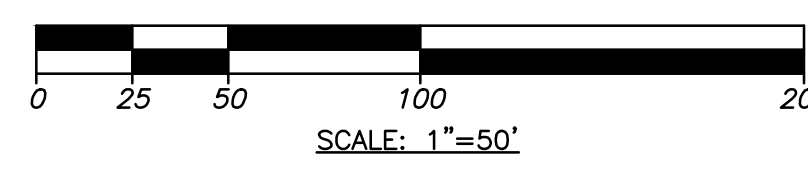
Key Features:
 - High Performance LED
 - Full Cutoff Design
 - Control External Glare Shield
 - High Efficiency
 - Long Life



1 TYPICAL POLE MOUNTING DETAIL
SCALE: NTS



LIGHTING PLAN



UNAPPROVED FOR CONSTRUCTION
 ADDITION TO THIS PLAN
 LOCATION OF THE LANSING ENGINEERING, P.C. RECORDS/DESCRIPTION

DATE: _____

REVISION RECORD/DESCRIPTION

DATE: _____

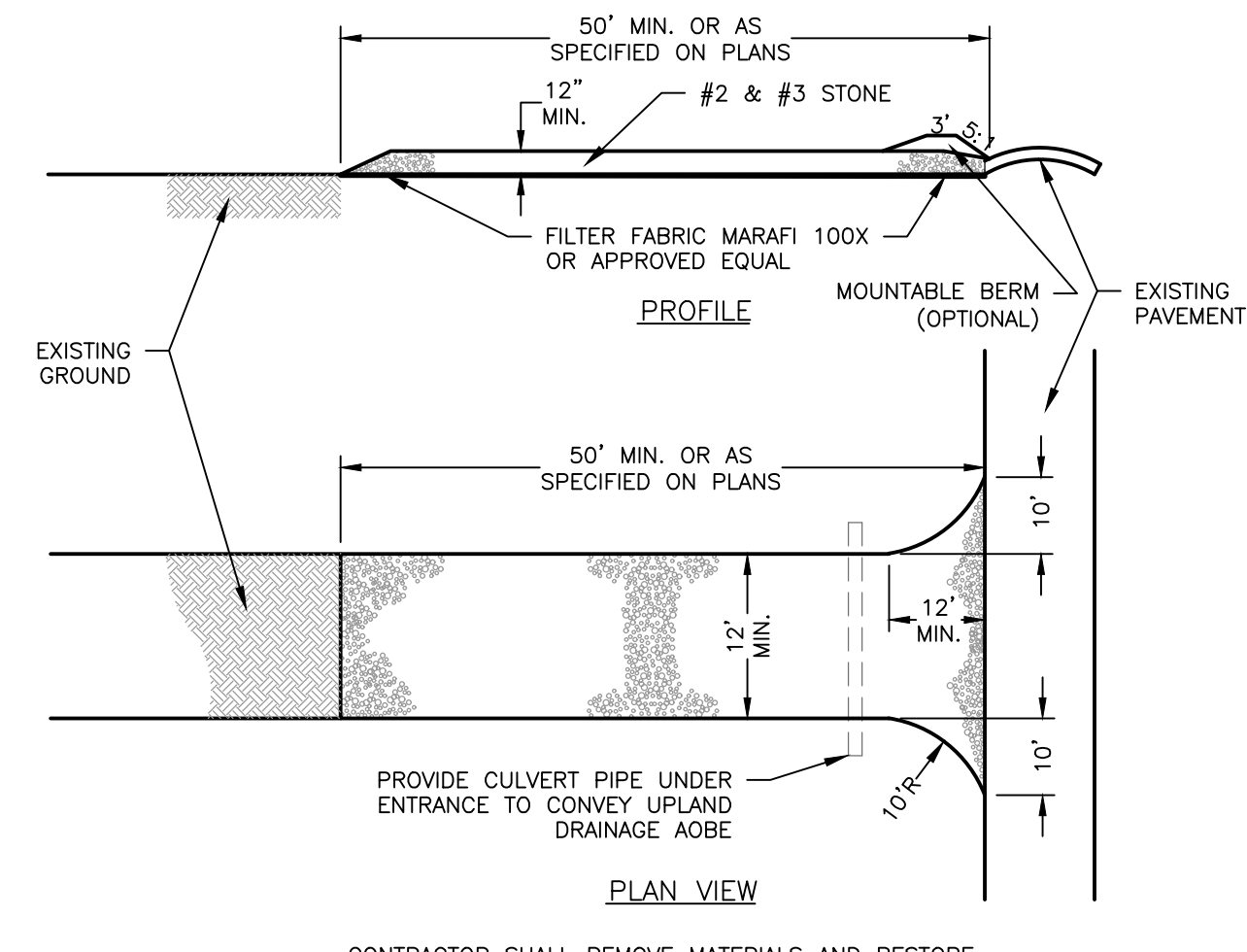
PRELIMINARY / NOT FOR CONSTRUCTION

ESSEX BOCES FACILITY
 PLANK ROAD, TOWN OF INDIAN, ESSEX COUNTY, NEW YORK

LANSING ENGINEERING
 385 WEST VALLEY ROAD
 SUITE 100
 VALLEY STREAM, NY 11580
 (516) 885-8848

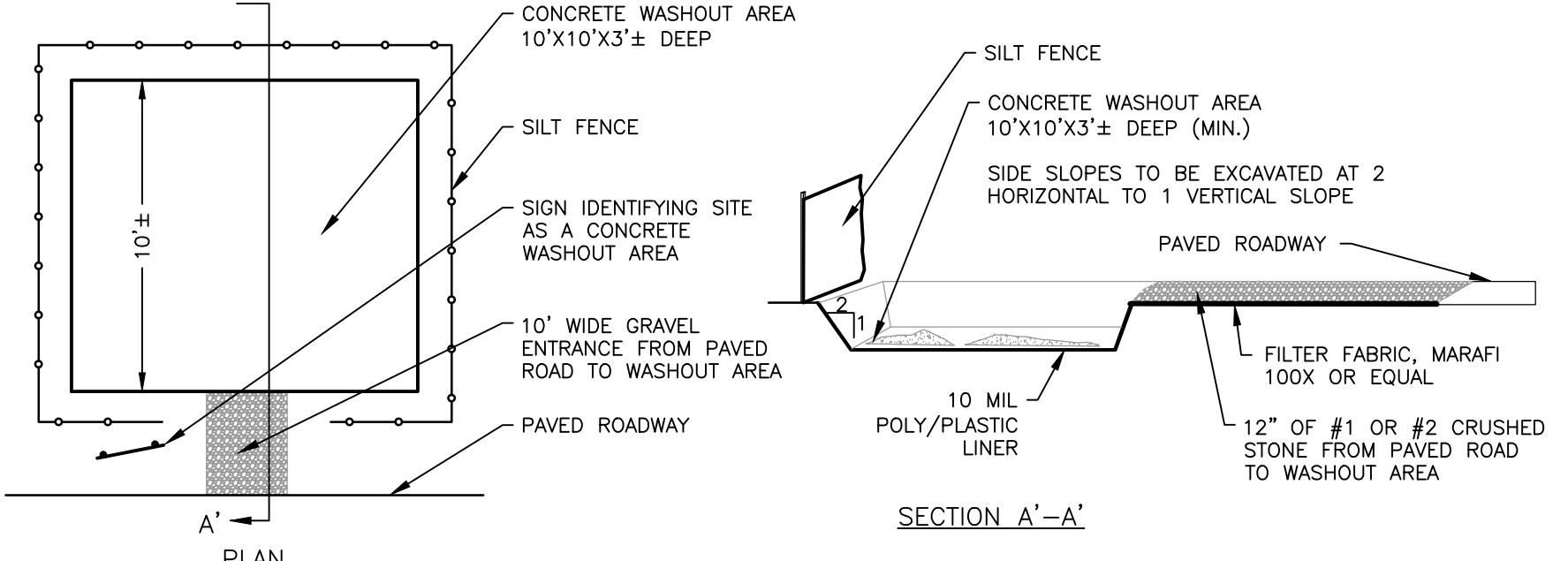
PROJ. NO: 1126.00
 SCALE: AS SHOWN
 DATE: 02/25/2026

LT-1
 SHEET 11 OF 20



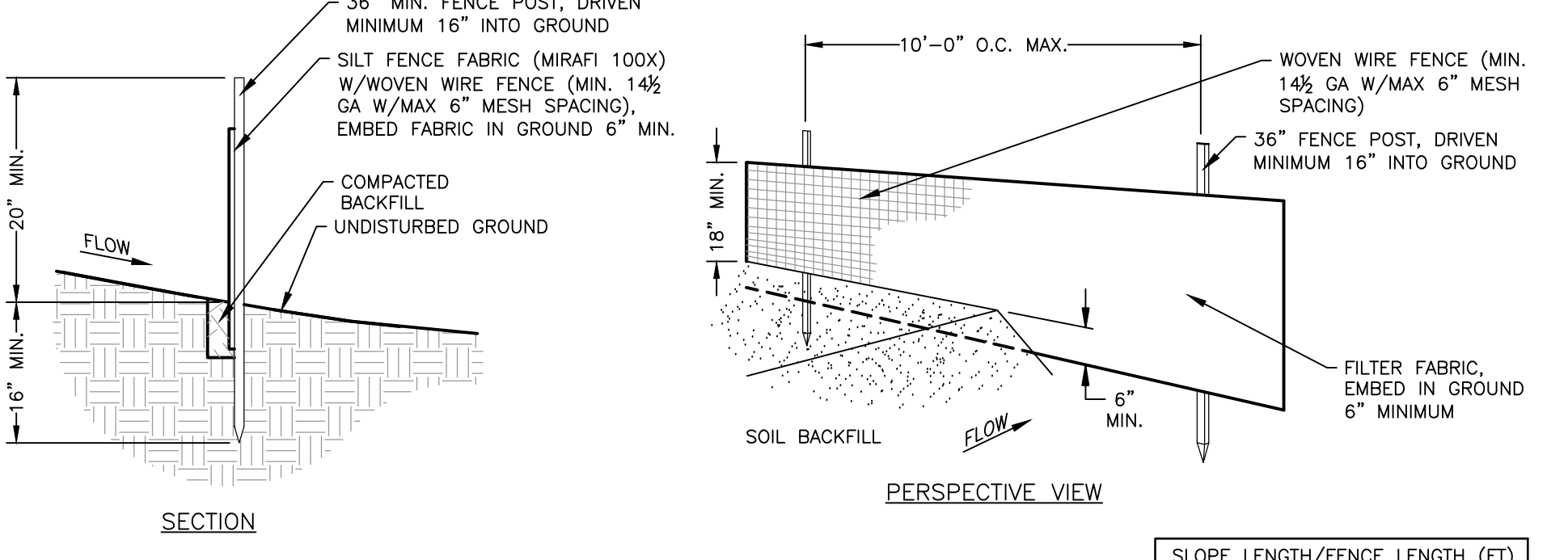
- NOTE:**
- STONE SIZE - USE MIXTURE OF #2 & #3 STONE (1-4 INCHES), OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 - LENGTH - NOT LESS THAN FIFTY (50) FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A THIRTY (30) FOOT MINIMUM LENGTH WOULD APPLY).
 - THICKNESS - NOT LESS THAN TWELVE (12) INCHES.
 - WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
 - GEOTEXTILE - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
 - SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
 - MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
 - WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
 - PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

1 STABILIZED CONSTRUCTION ENTRANCE
SCALE: NTS



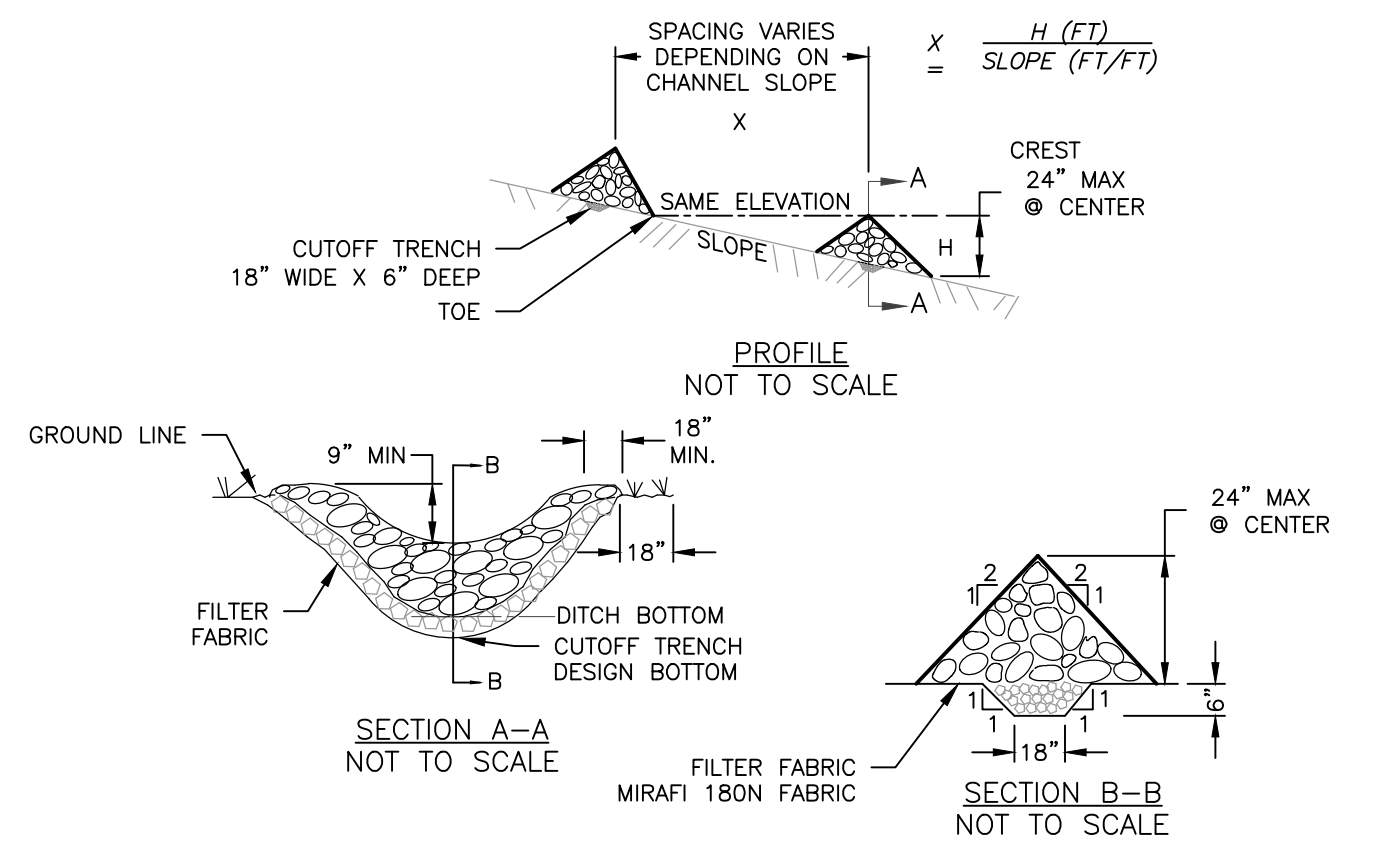
- CONSTRUCTION SPECIFICATIONS**
- CONCRETE WASHOUT LOCATION SHALL BE A MINIMUM OF 100' FROM SENSITIVE AREAS.
 - THE BASIN DIMENSIONS DEPICTED ABOVE ARE REQUIRED MINIMUMS. CONCRETE WASHOUT FACILITY SHALL BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS. (APPROX. 60 GAL. OF WATER/WASTE PER TRUCK)
 - PLASTIC LINING MATERIAL SHALL BE 10 MIL(MINIMUM) POLY SHEETING AND BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL. LINER TO BE ANCHORED BEYOND THE TOP OF THE PIT WITH AN EARTHEN BERM, SAND BAGS, OR STONE.
 - WASHOUT FACILITY MUST BE CLEANED OR NEW FACILITIES MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL.
- MAINTENANCE AND CLEANING**
- DO NOT DISCHARGE LIQUID OR SLURRY TO WATERWAYS, STORM DRAINS OR DIRECTLY ONTO GROUND.
 - DO NOT USE SANITARY SEWER WITHOUT LOCAL APPROVAL.
 - PLACE A SECURE NON-COLLAPSING, NON-WATER COLLECTING COVER OVER THE FACILITY PRIOR TO PREDICTED WET WEATHER TO PREVENT ACCUMULATION AND OVERFLOW.
 - REMOVE AND DISPOSE OF HARDENED CONCRETE AND RETURN THE STRUCTURE TO A FUNCTIONAL STATE.
 - INSPECT THE WASHOUT FACILITY FOR SIGNS OF WEAKENING OR DAMAGE AND REPAIR AS NECESSARY (RE-LINE THE STRUCTURE WITH NEW POLY SHEETING AFTER EACH CLEANING).

2 CONCRETE WASHOUT AREA
SCALE: NTS



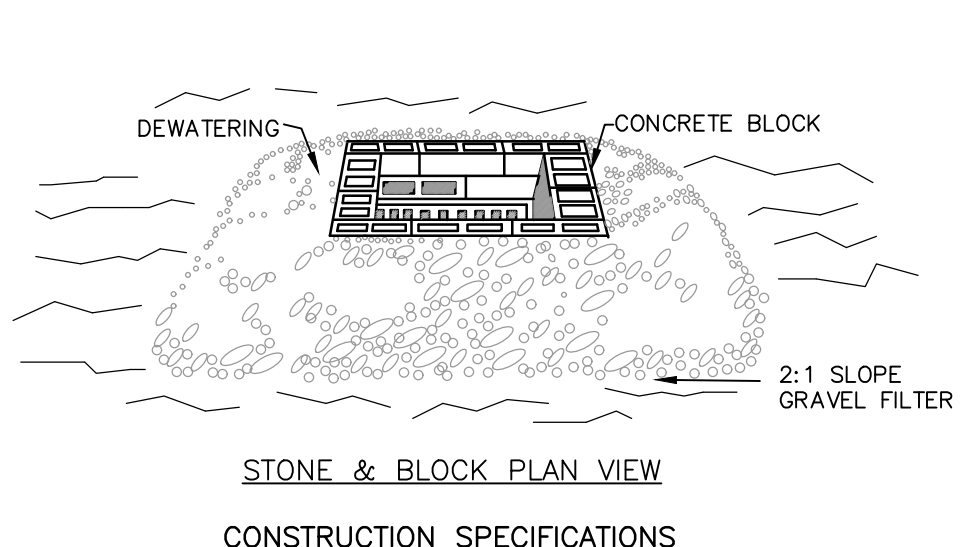
- CONSTRUCTION SPECIFICATIONS**
- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "1" OR "1 1/2" TYPE OR HARDWOOD.
 - FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 12G GA. 6" MAXIMUM MESH OPENING.
 - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY (6) INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILURKA 1140N, OR APPROVED EQUIVALENT.
 - PRE-FABRICATED UNITS SHALL BE GEOTAB, ENVROFENCE, OR APPROVED EQUIVALENT.
 - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
- | SLOPE | STEEPNESS | SLOPE LENGTH/FENCE LENGTH (FT) | | |
|--------|--------------|--------------------------------|------------|----------|
| | | STANDARD | REINFORCED | SUPER |
| <2% | <50:1 | 300/1500 | N/A | N/A |
| 2-10% | 50:1 TO 10:1 | 125/1000 | 250/2000 | 300/2500 |
| 10-20% | 10:1 TO 5:1 | 100/750 | 150/1000 | 200/1000 |
| 20-33% | 5:1 TO 3:1 | 60/500 | 80/750 | 100/1000 |
| 33-50% | 3:1 TO 2:1 | 40/250 | 70/350 | 100/500 |
| >50% | >2:1 | 20/125 | 30/175 | 50/250 |
- STANDARD SILT FENCE (SF)** IS FABRIC ROLLS STAPLED TO WOODEN STAKES DRIVEN 16" IN THE GROUND.
REINFORCED SILT FENCE (RSF) IS FABRIC PLACED AGAINST WELDED WIRE FABRIC WITH ANCHORED STEEL POSTS DRIVEN 16" IN THE GROUND.
SUPER SILT FENCE (SSF) IS FABRIC PLACED AGAINST CHAIN LINK FENCE AS SUPPORT BACKING WITH POSTS DRIVEN 3" IN THE GROUND.

3 SEDIMENT CONTROL FENCE
SCALE: NTS



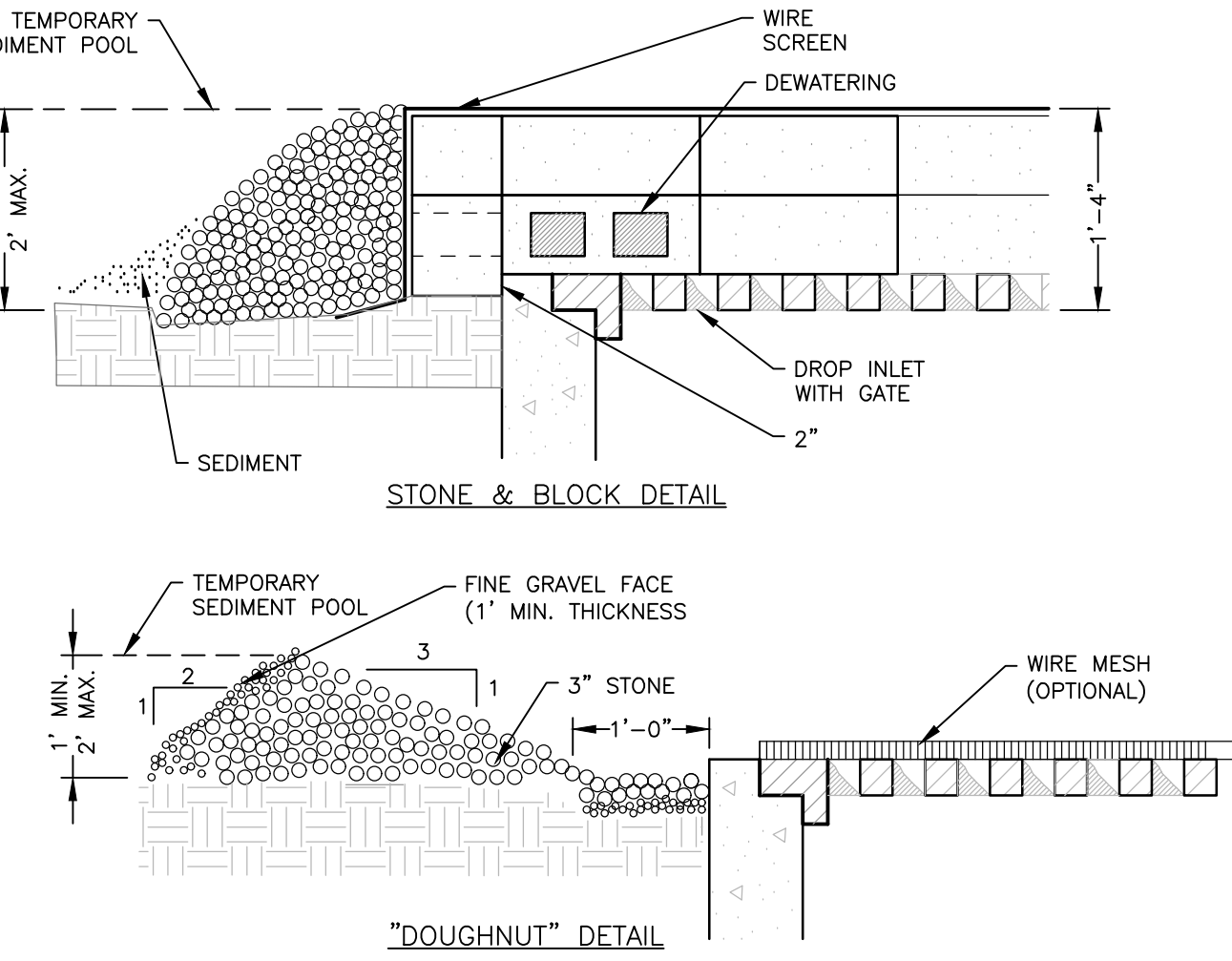
- CONSTRUCTION SPECIFICATIONS**
- STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
 - SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
 - EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
 - PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
 - ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE. MAXIMUM DRAINAGE AREA TWO (2) ACRES.

4 STONE CHECK DAM DETAIL
SCALE: NTS

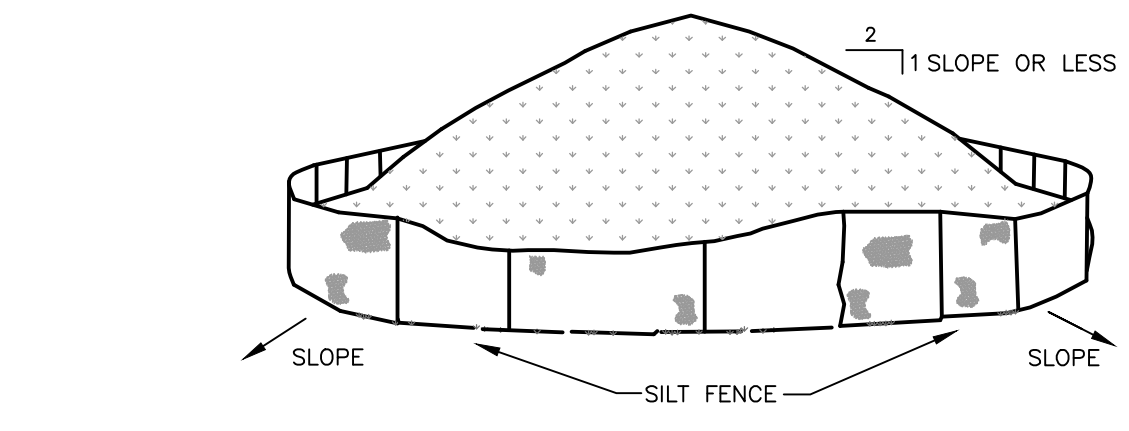


- CONSTRUCTION SPECIFICATIONS**
- LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2" MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
 - HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
 - USE CLEAN STONE OR GRAVEL 3/4" - 3/8" PLACED 2" BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
 - FOR STONE STRUCTURES ONLY, A 1" THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3" STONE AS SHOWN ON THE DRAWINGS.
 - MAXIMUM DRAINAGE AREA 1 ACRE.

5 STONE AND BLOCK DROP INLET PROTECTION
SCALE: NTS

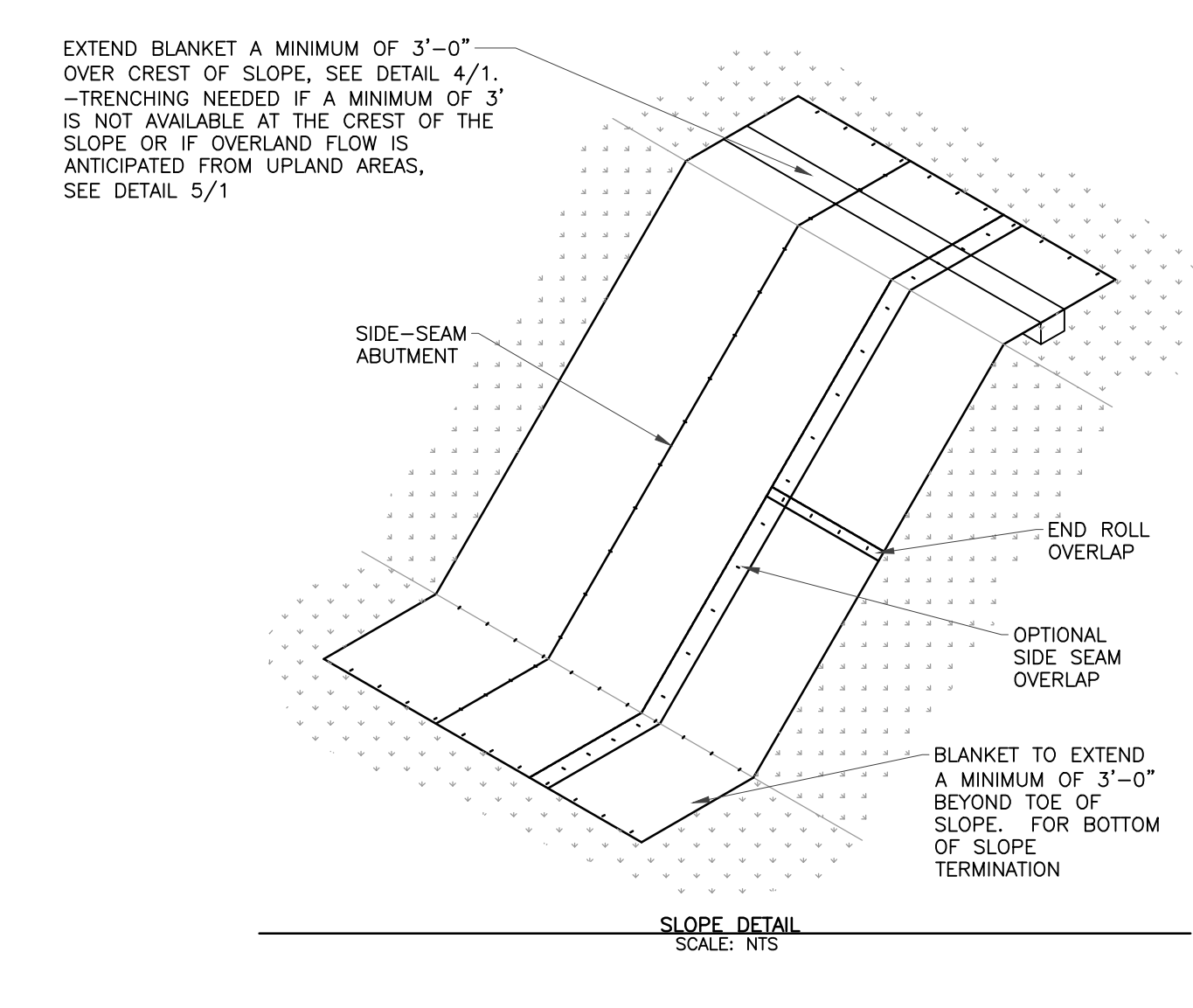


6 MATERIAL STORAGE & SOIL STOCKPILE STABILIZATION DETAIL
SCALE: NTS



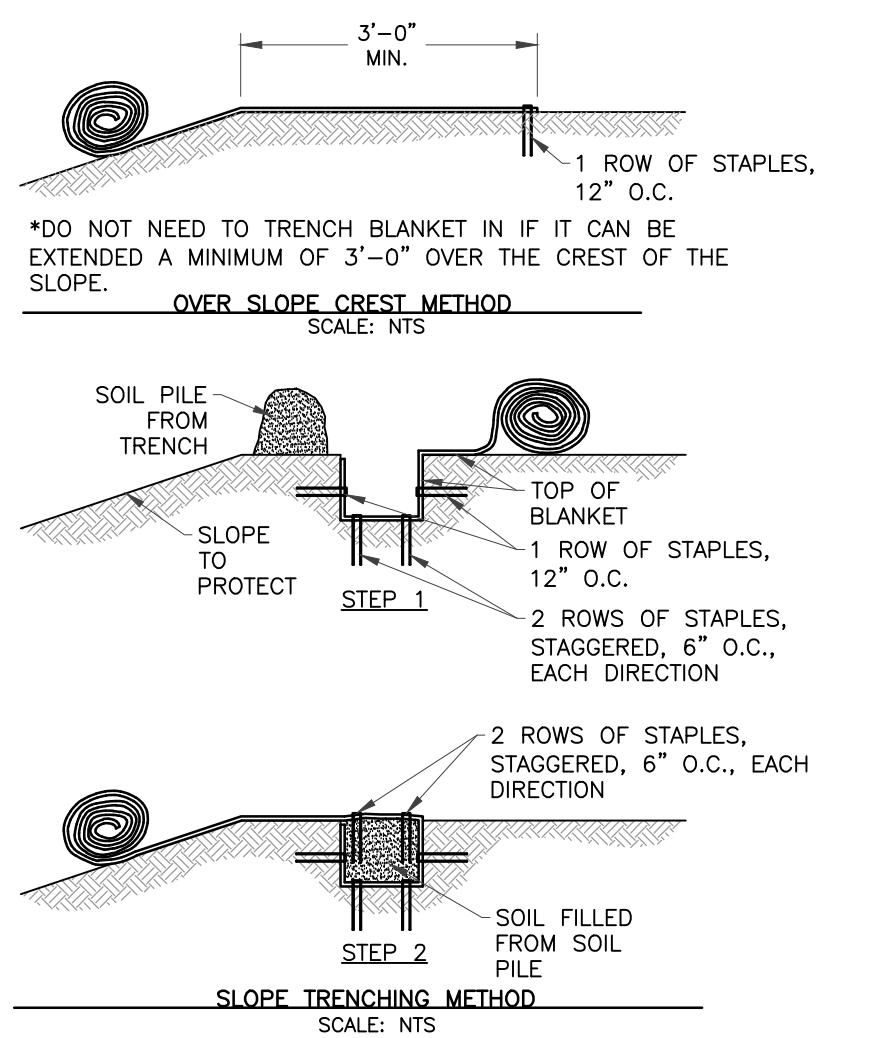
- CONSTRUCTION SPECIFICATIONS**
- AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
 - MINIMUM DISTANCE TO A NATURAL WATER COURSE SHALL BE 50'.
 - THE TOP SIX INCHES OF NATIVE MATERIAL SHALL BE REMOVED FROM MATERIAL/FUEL STORAGE AREA AND REPLACED WITH MARAFI 100X GEOTEXTILE FABRIC AND 6" INCHES OF CRUSHED STONE BEDDING. CRUSHED STONE SHALL MEET NYSDOT ITEM NO. 623.11 SPECIFICATIONS.
 - SILT FENCING SHALL BE PLACED 5' DOWNSLOPE OF STORAGE AREA.
 - TEMPORARY PERIMETER DIKES MAY BE REQUIRED TO DIRECT CLEAN RUNOFF FROM STORAGE AREAS. REFER TO EROSION AND SEDIMENT CONTROL PLAN.

7 STORMWATER MANAGEMENT / WETLAND PROTECTION FENCING
SCALE: N.T.S.



- CONSTRUCTION SPECIFICATIONS**
- EXTEND BLANKET A MINIMUM OF 3'-0" OVER CREST OF SLOPE. SEE DETAIL 4/1.
 - TRENCHING NEEDED IF A MINIMUM OF 3' IS NOT AVAILABLE AT THE CREST OF THE SLOPE OR IF OVERLAND FLOW IS ANTICIPATED FROM UPLAND AREAS. SEE DETAIL 5/1.
 - BLANKET TO EXTEND A MINIMUM OF 3'-0" BEYOND TOE OF SLOPE. FOR BOTTOM OF SLOPE TERMINATION.
 - END SEAM OF BLANKETS OVERLAP 2-4". PLACE STAPLES AT EACH CORNER AND 12" O.C. ALONG EDGE THROUGH BOTH BLANKETS. UPSLOPE BLANKET LAPS OVER DOWNSLOPE BLANKET IN A SHINGLE EFFECT.
 - STAPLE 12" O.C. ALONG BOTTOM OF BLANKET AT END OF SLOPE.
 - STAPLE 12" O.C. ALONG BLANKET AT SLOPE CHANGE.
 - ABUT BLANKET EDGES TOGETHER.
 - COMMON ROW OF STAPLES WITH EACH STAPLE HOLDING BOTH BLANKETS.
 - BLANKET OVERLAP 2'-4".
 - STAPLES ARE THROUGH BOTH BLANKETS.
- NOTE:** TOPSOIL AND SEED SHALL BE PLACED ON SLOPE PRIOR TO PLACEMENT OF EROSION CONTROL MATTING.

8 EROSION CONTROL BLANKET
SCALE: NTS



- CONSTRUCTION SPECIFICATIONS**
- SEE RIPRAP STANDARDS AND SPECIFICATION FOR MAXIMUM TAILWATER CONDITIONS, STONE FILL SIZES AND APRON SIZES.
 - APRON DIMENSIONS ARE BASED ON PIPES FLOWING FULL; USING ACTUAL FLOWS MAY RESULT IN DIFFERENT APRON DIMENSIONS.
 - MINIMUM THICKNESS OF THE STONE FILL LAYER SHALL BE 1.5 TIMES THE MAXIMUM STONE DIAMETER FOR 450 OF 15" OR LESS; & 1.2 TIMES THE MAXIMUM STONE SIZE OR 450 GREATER THAN 15".

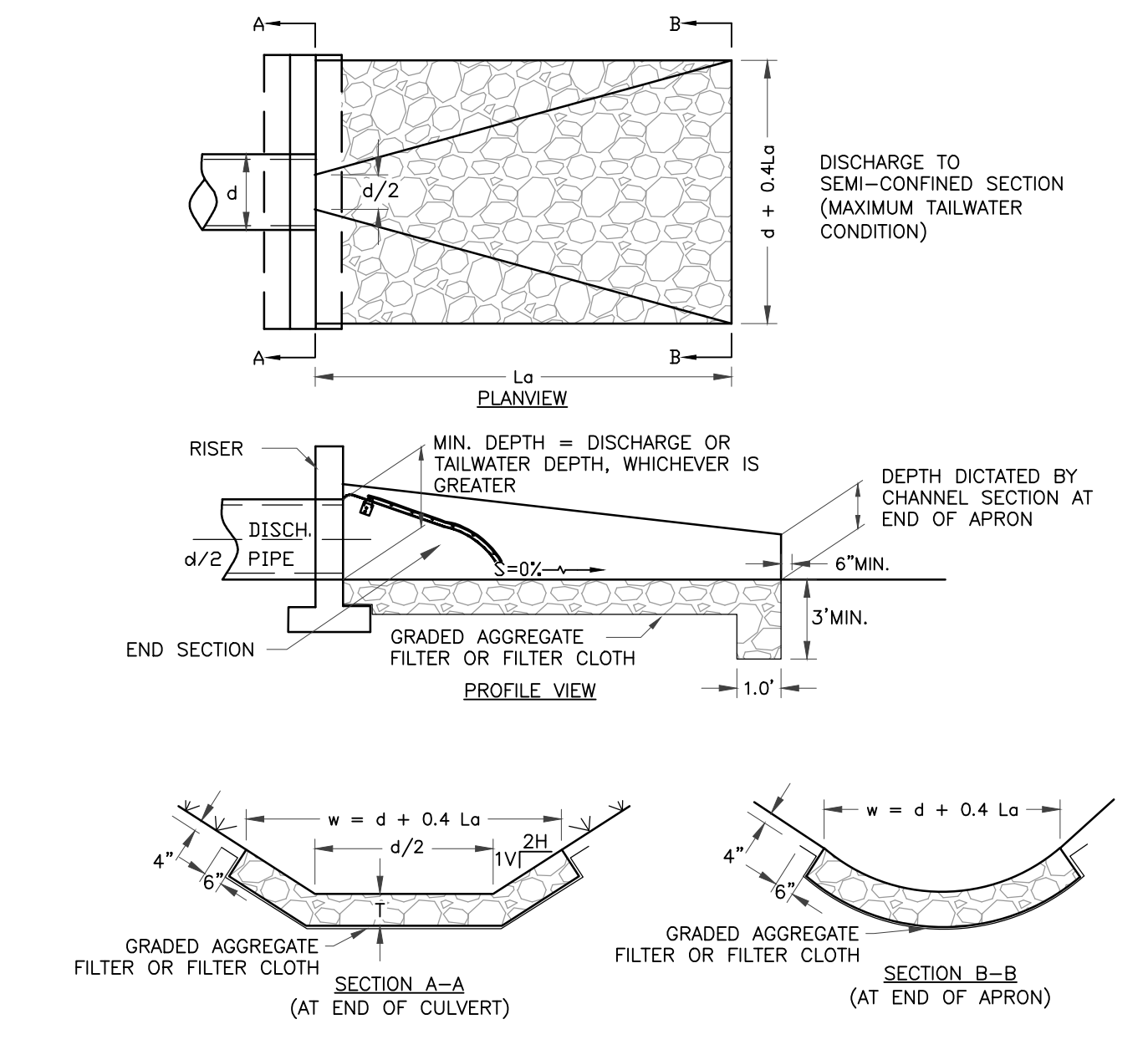
9 RIPRAP OUTLET PROTECTION
SCALE: NTS

PIPE SIZE (IN. (IN.))	STONE FILL APRON SIZING*			APRON LENGTH (L) (FT.)
	PIPE SLOPE	STONE SIZING (S) (IN.)	APRON THICKNESS (T) (IN.)	
12	0-3%	4	LIGHT	18
	3-7%	6	LIGHT	18
	7-10%	9	MEDIUM	24
15, 18	0-3%	6	LIGHT	18
	3-7%	9	MEDIUM	24
	7-10%	12	MEDIUM	30
24	0-1%	6	MEDIUM	24
	1-2%	9	MEDIUM	24
	2-3%	12	MEDIUM	30
30	0-3%	9	MEDIUM	28
	3-4%	12	MEDIUM	36
	4-5%	15	MEDIUM	44
36	0-1%	9	MEDIUM	24
	1-2%	15	HEAVY	36
	2-4%	18	HEAVY	40
42	0-1%	12	MEDIUM	28
	1-2%	15	HEAVY	36
	2-3%	18	HEAVY	42
48	0-1%	12	MEDIUM	28
	1-2%	18	HEAVY	36
	2-3%	24	HEAVY	44
60	0-1%	18	HEAVY	44
	1-2%	24	HEAVY	54
	2-3%	30	HEAVY	66
3-4%	33	HEAVY	70	

*THE ABOVE TEXT IS BASED ON NYSDOT 'NEW YORK STATE STANDARDS & SPECIFICATIONS FOR EROSION & SEDIMENT CONTROL' - DESIGN OF RIPRAP PROTECTION DESIGN - MINIMUM TAILWATER CONDITION (DESIGN OF OUTLET PROTECTION FOR A ROUND PIPE FLOWING FULL, MINIMUM TAILWATER CONDITION: 15" - 0.50d) (USDA-NRCS)

- NOTES:**
- SEE RIPRAP STANDARDS AND SPECIFICATION FOR MAXIMUM TAILWATER CONDITIONS, STONE FILL SIZES AND APRON SIZES.
 - APRON DIMENSIONS ARE BASED ON PIPES FLOWING FULL; USING ACTUAL FLOWS MAY RESULT IN DIFFERENT APRON DIMENSIONS.
 - MINIMUM THICKNESS OF THE STONE FILL LAYER SHALL BE 1.5 TIMES THE MAXIMUM STONE DIAMETER FOR 450 OF 15" OR LESS; & 1.2 TIMES THE MAXIMUM STONE SIZE OR 450 GREATER THAN 15".

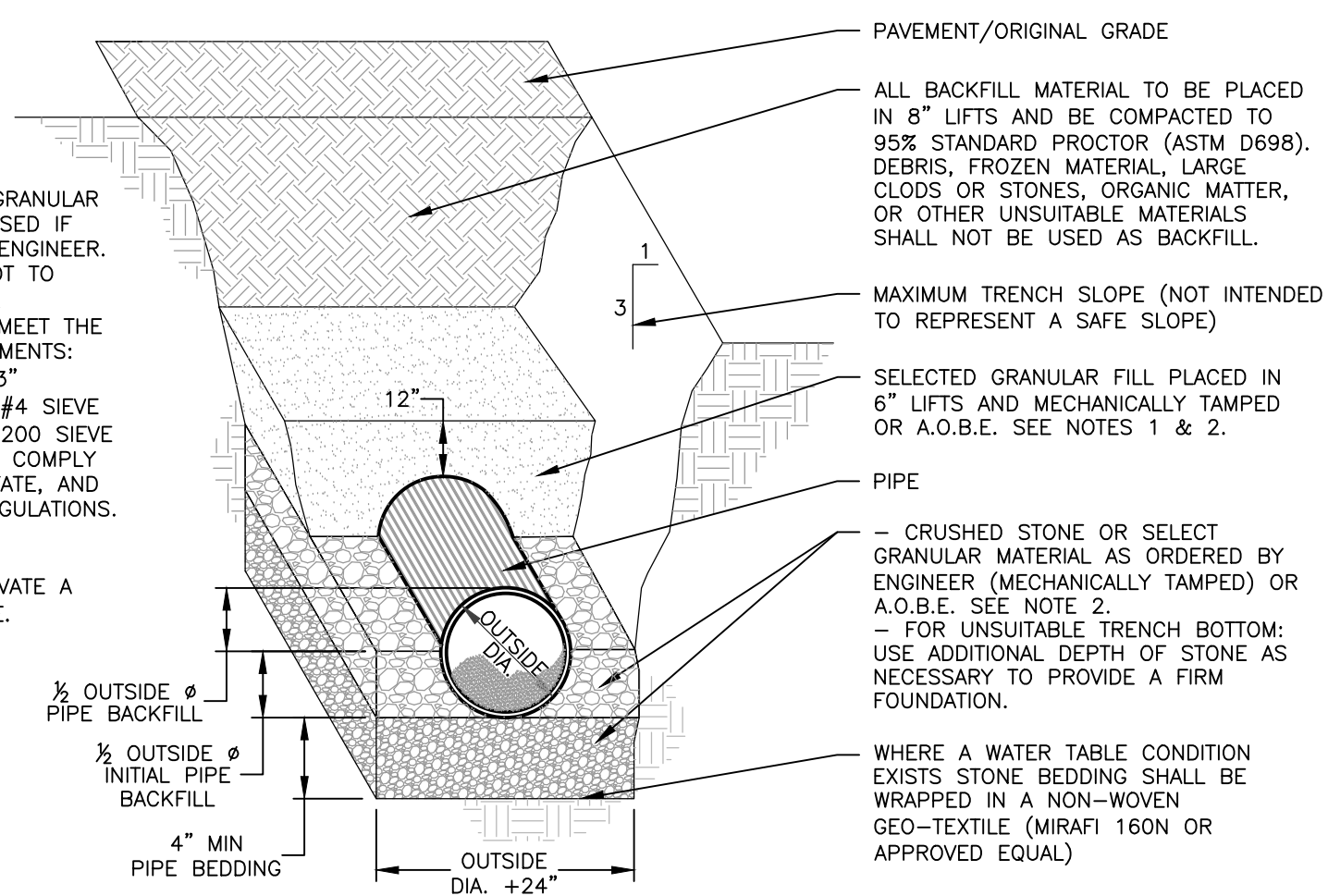
9 RIPRAP OUTLET PROTECTION
SCALE: NTS



- NOTES:**
- SEE RIPRAP STANDARDS AND SPECIFICATION FOR MAXIMUM TAILWATER CONDITIONS, STONE FILL SIZES AND APRON SIZES.
 - APRON DIMENSIONS ARE BASED ON PIPES FLOWING FULL; USING ACTUAL FLOWS MAY RESULT IN DIFFERENT APRON DIMENSIONS.
 - MINIMUM THICKNESS OF THE STONE FILL LAYER SHALL BE 1.5 TIMES THE MAXIMUM STONE DIAMETER FOR 450 OF 15" OR LESS; & 1.2 TIMES THE MAXIMUM STONE SIZE OR 450 GREATER THAN 15".

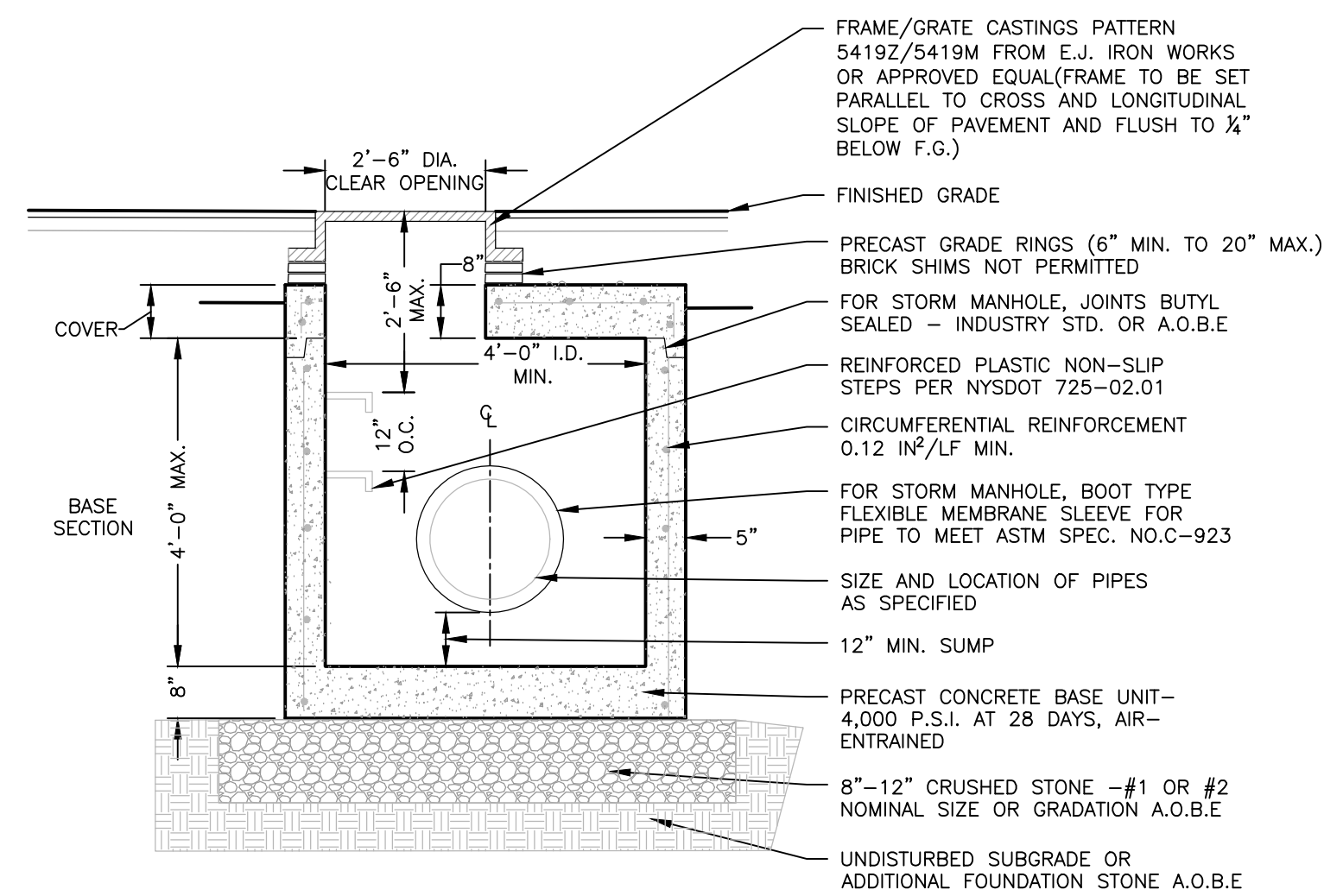
9 RIPRAP OUTLET PROTECTION
SCALE: NTS

- NOTES:
1. NATIVE EXCAVATED GRANULAR MATERIAL MAY BE USED IF APPROVED BY THE ENGINEER.
 2. CRUSHED STONE NOT TO EXCEED #2 IN SIZE. GRANULAR FILL TO MEET THE FOLLOWING REQUIREMENTS: 0% IN EXCESS OF 3" 25%-75% PASSING #4 SIEVE 0%-15% PASSING #200 SIEVE
 3. CONTRACTORS MUST COMPLY WITH ALL LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS. (OSHA & NYSDOT)
 4. WHERE ROCK IS ENCOUNTERED EXCAVATE A MIN. 6" BELOW PIPE.



TYPICAL TRENCH DETAIL FOR CORRUGATED HDPE PIPE

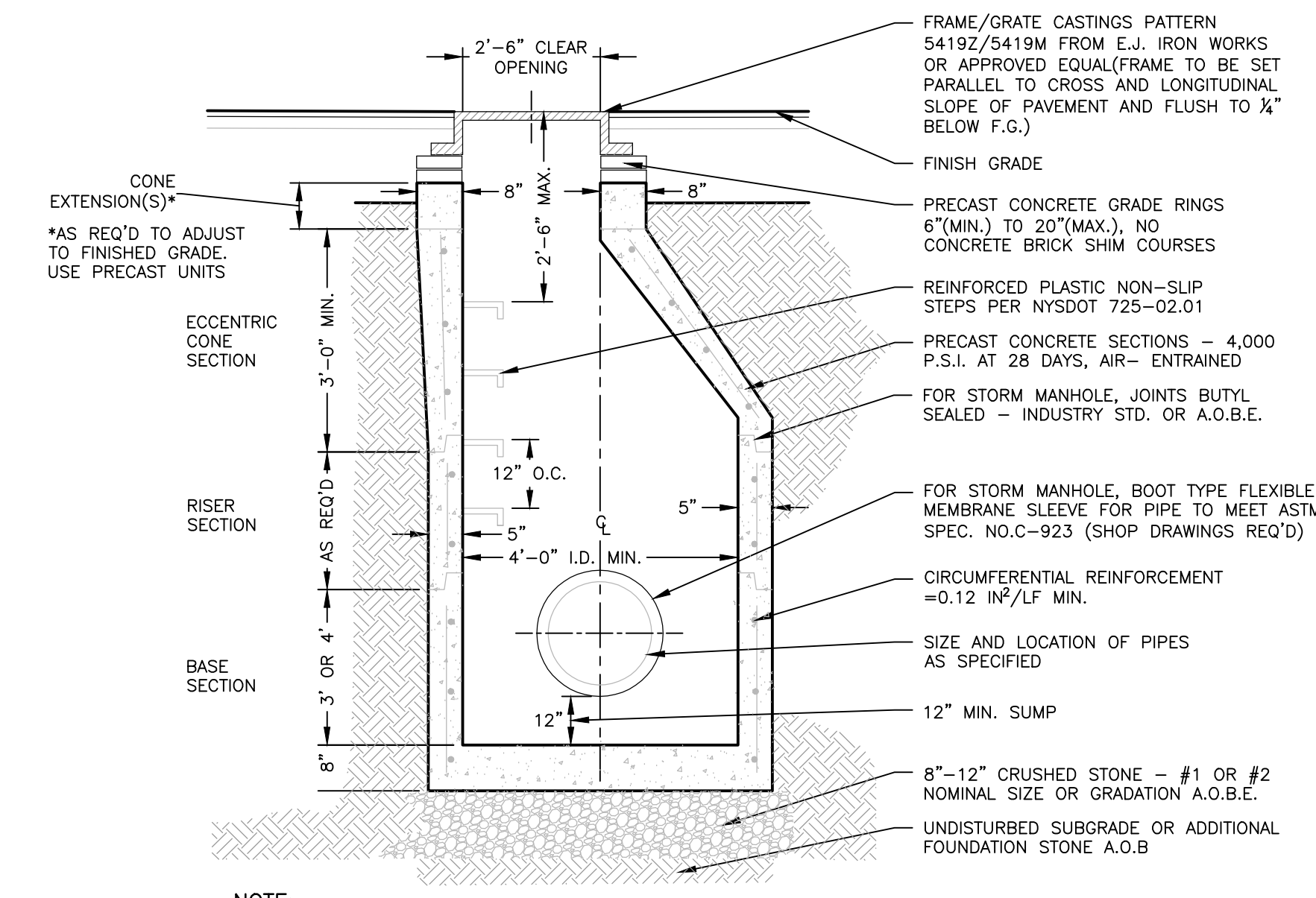
SCALE: NTS



- NOTE:
1. SHOP DRAWINGS REQUIRED TO BE REVIEWED BY THE ENGINEER.
 2. ALL MANHOLES TO BE PLACED IN ANY TRAFFIC AREAS SHALL MEET AASHTO HS20-44 WHEEL LOADING REQUIREMENTS.
 3. FOUNDATION DRAIN LATERALS: TO BE 4" PVC SDR 35 AT A MIN. SLOPE OF 1.00%. THE CROWN OF THE FOUNDATION DRAINS SHALL MATCH THE CROWN OF THE HIGHEST PIPE WITHIN THE CATCH BASIN STRUCTURE. FOUNDATION DRAINS TO EXTEND 5' MIN. PAST PROPERTY LINE OF LOT SERVICED.
 4. ROADWAY UNDERDRAINS: TO BE 4" HDPE AT SLOPE EQUAL TO ROADWAY GRADE. THE INVERT OF THE UNDERDRAIN SHALL BE LOCATED 2" BELOW THE RIM ELEVATION OF THE CATCH BASIN.

PRECAST CONCRETE MANHOLE - UNDER 5' DEEP

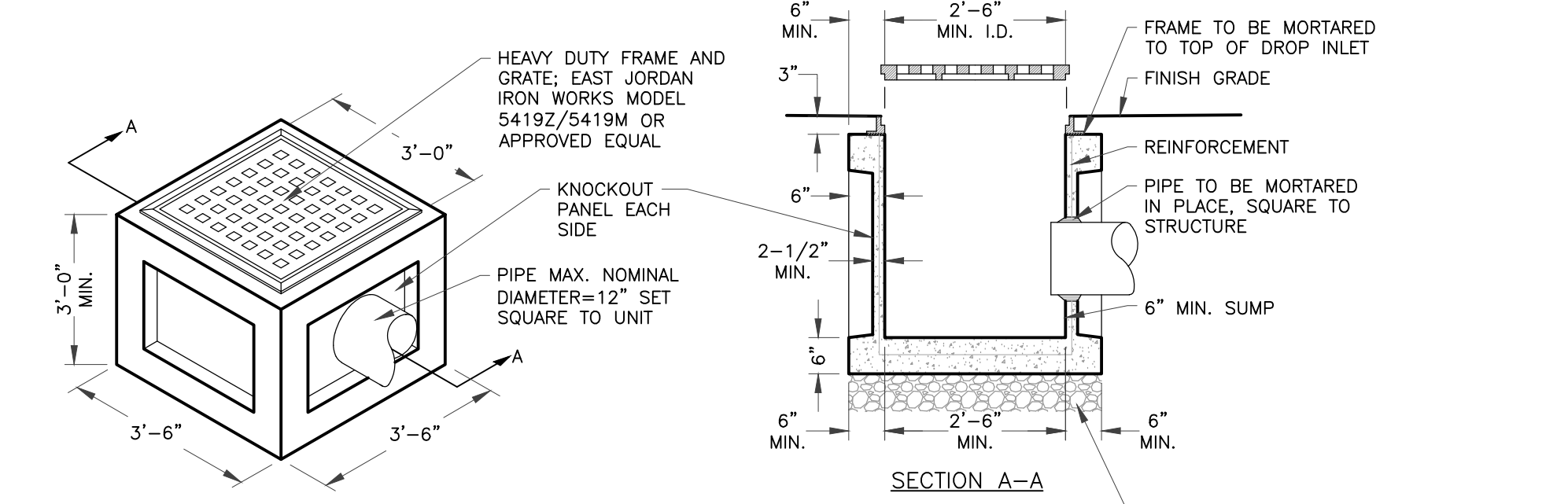
SCALE: NTS



- NOTE:
1. SHOP DRAWINGS REQUIRED TO BE REVIEWED BY THE ENGINEER.
 2. ALL MANHOLES TO BE PLACED IN ANY TRAFFIC AREAS SHALL MEET AASHTO HS20-44 WHEEL LOADING REQUIREMENTS.
 3. FOUNDATION DRAIN LATERALS: TO BE 4" PVC SDR 35 AT A MIN. SLOPE OF 1.00%. THE CROWN OF THE FOUNDATION DRAINS SHALL MATCH THE CROWN OF THE HIGHEST PIPE WITHIN THE CATCH BASIN STRUCTURE. FOUNDATION DRAINS TO EXTEND 5' MIN. PAST PROPERTY LINE OF LOT SERVICED.
 4. ROADWAY UNDERDRAINS: TO BE 4" HDPE AT SLOPE EQUAL TO ROADWAY GRADE. THE INVERT OF THE UNDERDRAIN SHALL BE LOCATED 2" BELOW THE RIM ELEVATION OF THE CATCH BASIN.

PRECAST CONCRETE MANHOLE - 5' DEEP AND OVER

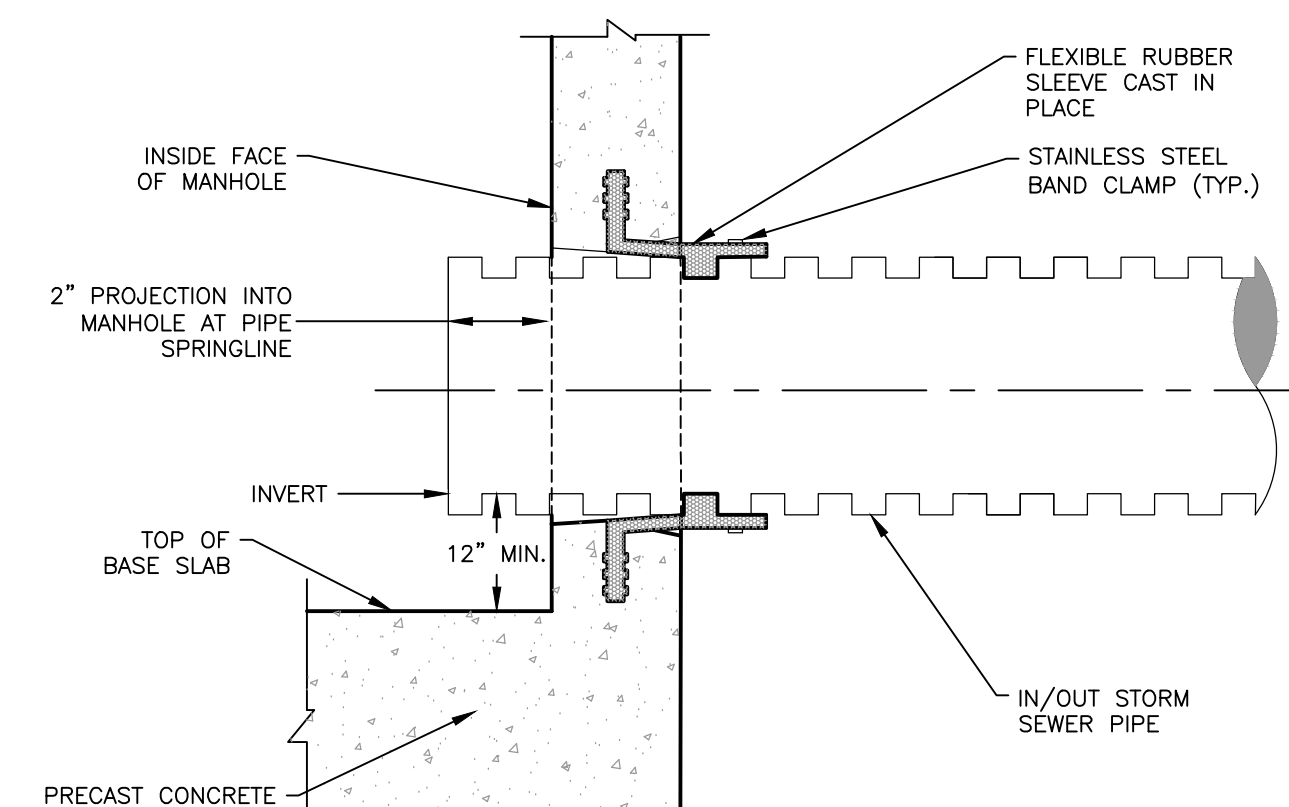
SCALE: NTS



- NOTE:
1. ALL DROP INLETS TO BE PLACED IN ANY TRAFFIC AREAS SHALL MEET AASHTO HS20-44 WHEEL LOADING REQUIREMENTS.
 2. CONCRETE TO BE 4000 PSI @ 28 DAYS.
 3. MINIMUM REINFORCEMENT - 6#4 - 10/10 W/M ALL FOUR SIDES AND BOTTOM.

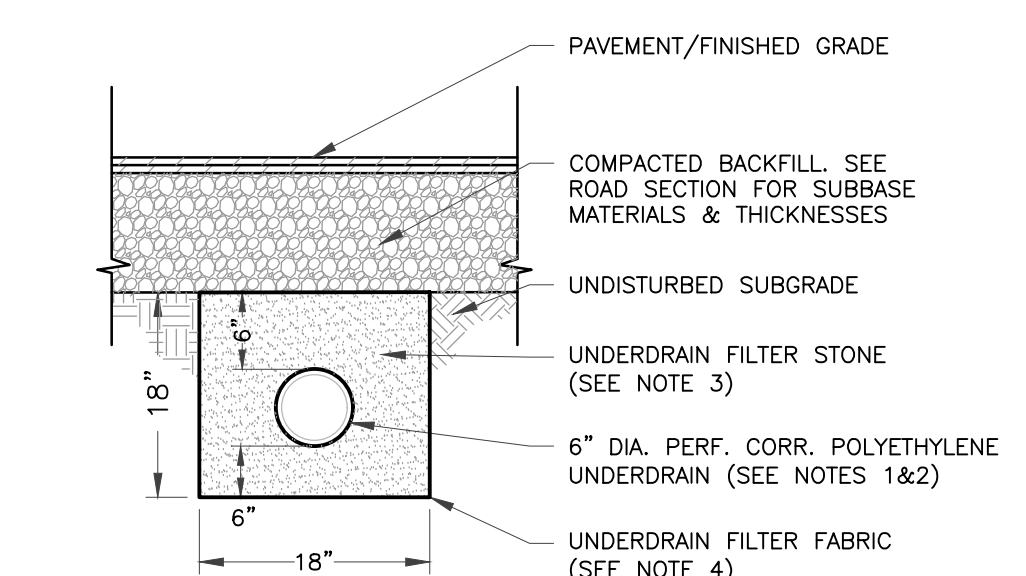
2'-6" X 2'-6" I.D. KNOCKOUT CATCH BASIN

SCALE: NTS



HDPE PIPE TO STRUCTURE: BOOTED JOINT

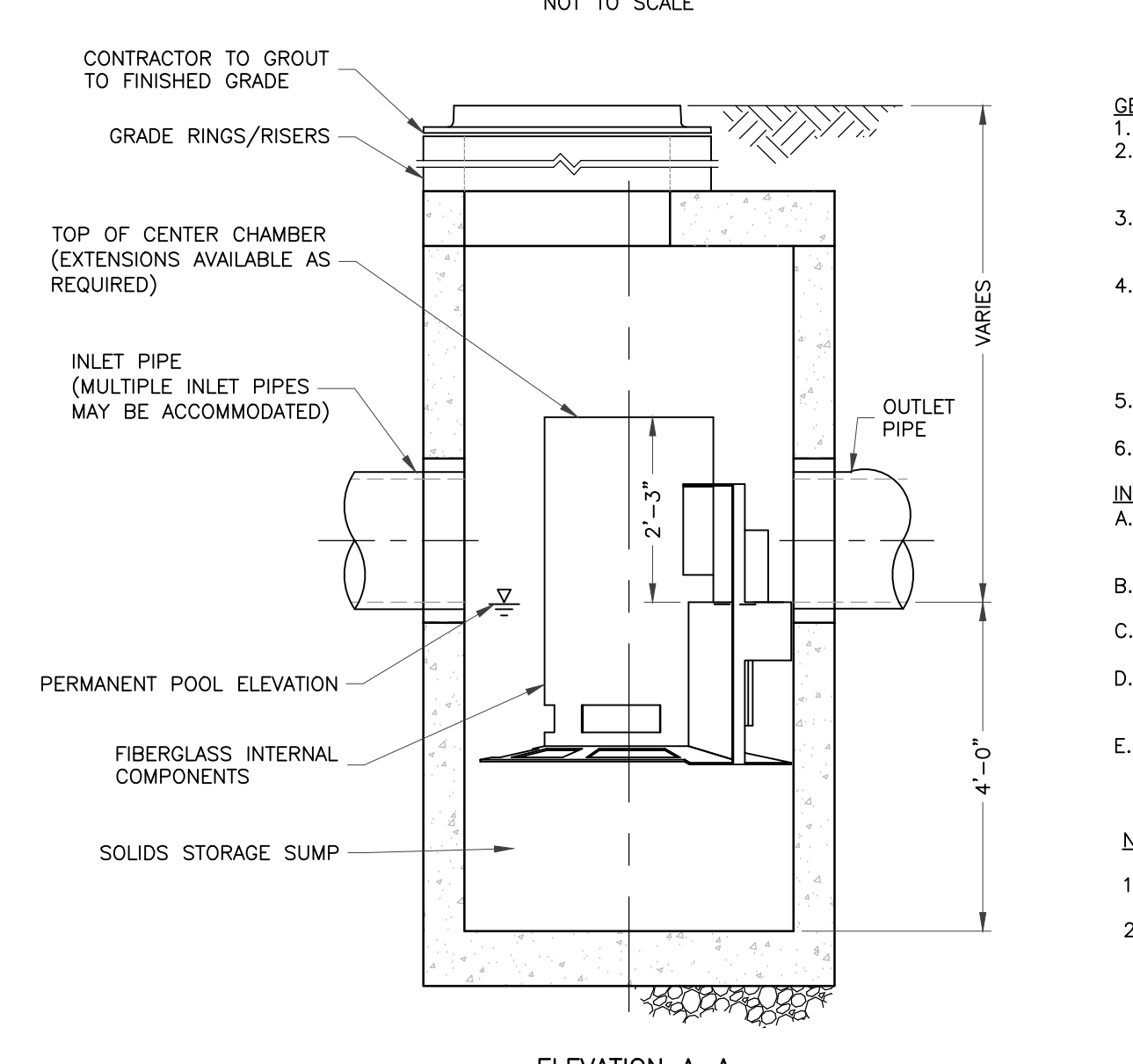
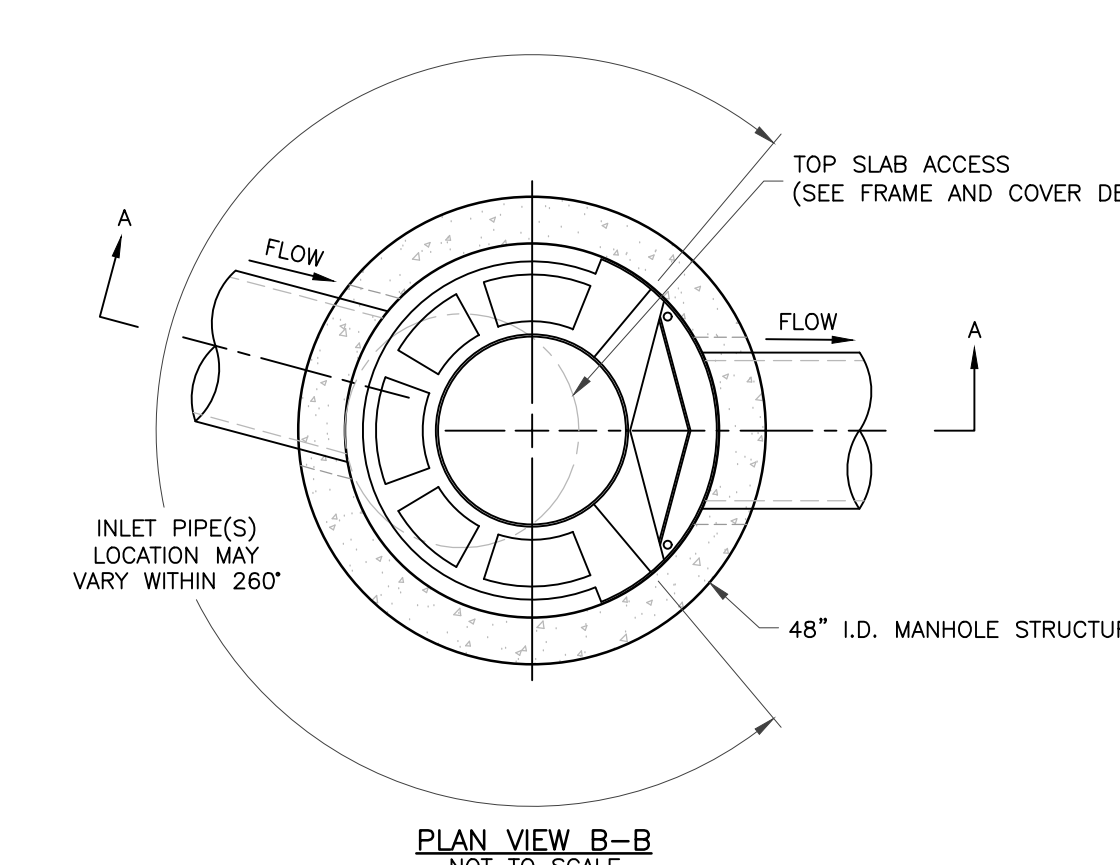
SCALE: NTS



- NOTE:
1. UNDERDRAIN SHALL MEET THE REQUIREMENTS OF NYSDOT ITEM 605.1701.
 2. UNDERDRAIN TO BE PLACED WITH PERFORATIONS FACING UPWARD.
 3. FILTER STONE (TYPE 1) SHALL MEET THE REQUIREMENTS OF NYSDOT ITEM 605.0901.
 4. UNDERDRAIN FILTER FABRIC TO BE TYPE II NYSDOT ITEM 605.1001.

UNDERDRAIN DETAIL

SCALE: NTS



CASCADE SEPARATOR UNIT (CS-1)

SCALE: NTS

- GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
 2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.contechcs.com
 3. CASCADE SEPARATOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
 4. CASCADE SEPARATOR STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0'-2", AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
 5. CASCADE SEPARATOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN METHOD.
 6. ALTERNATE UNITS ARE SHOWN IN MILLIMETERS [mm].

- INSTALLATION NOTES
- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
 - CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CASCADE SEPARATOR MANHOLE STRUCTURE.
 - CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
 - CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
 - 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.

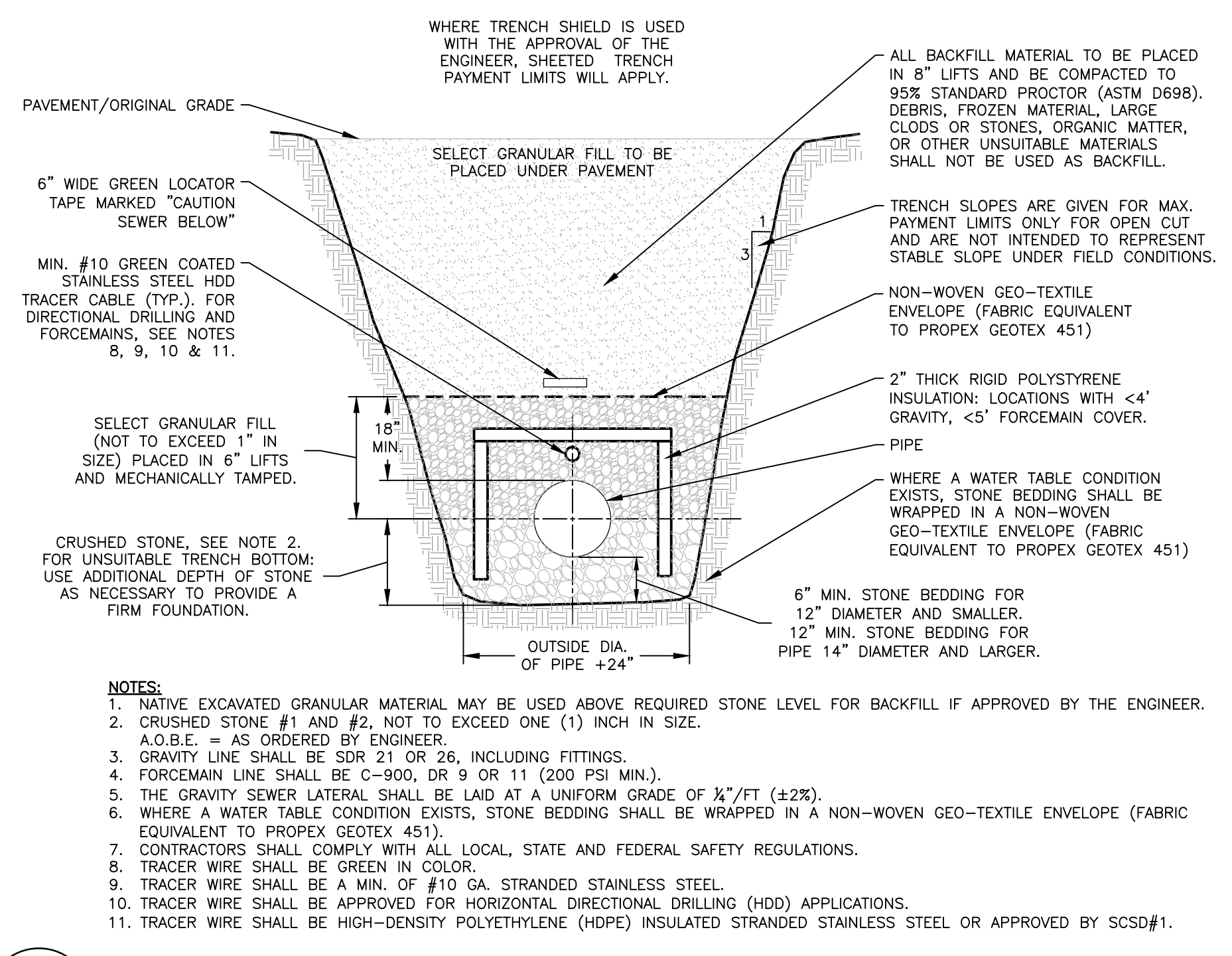
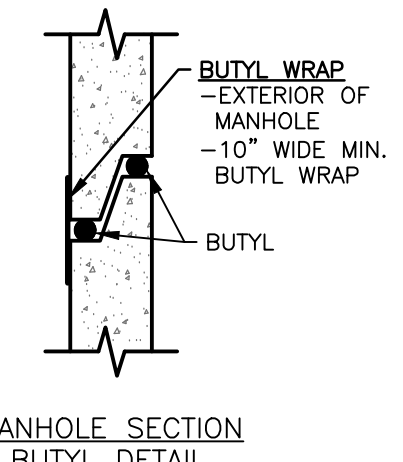
- NOTES:
1. CS-1 UNIT TO BE SUPPLIED BY CONTECH MODEL NUMBER CS-5 OR APPROVED EQUAL.
 2. FRAME AND GRATE TO BE CAMPBELL NO. 1396 OR APPROVED EQUAL.

UNAUTHORIZED ADDITION TO THIS LOCATION OF THE INVERT LANSING ENGINEERING, P.C.

ESSEX BOCES FACILITY PLANK ROAD, TOWN OF MORAHA, ESSEX COUNTY, NEW YORK
REVISION RECORD/DESCRIPTION
DATE
PRELIMINARY / NOT FOR CONSTRUCTION

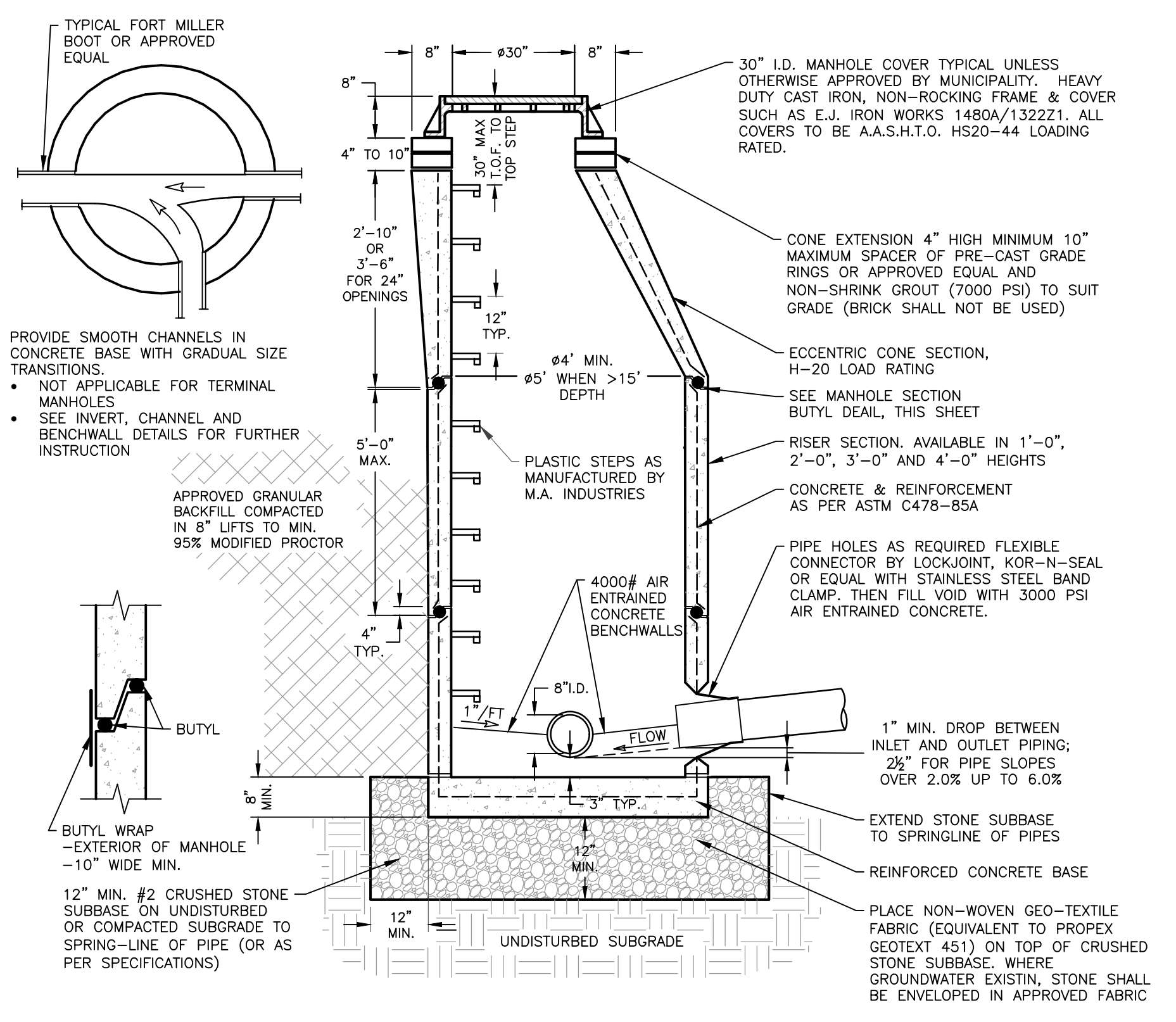
LANSING ENGINEERING
ESSEX COUNTY, NEW YORK
DATE: 02/25/2026
SCALE: AS SHOWN

STORM DETAILS



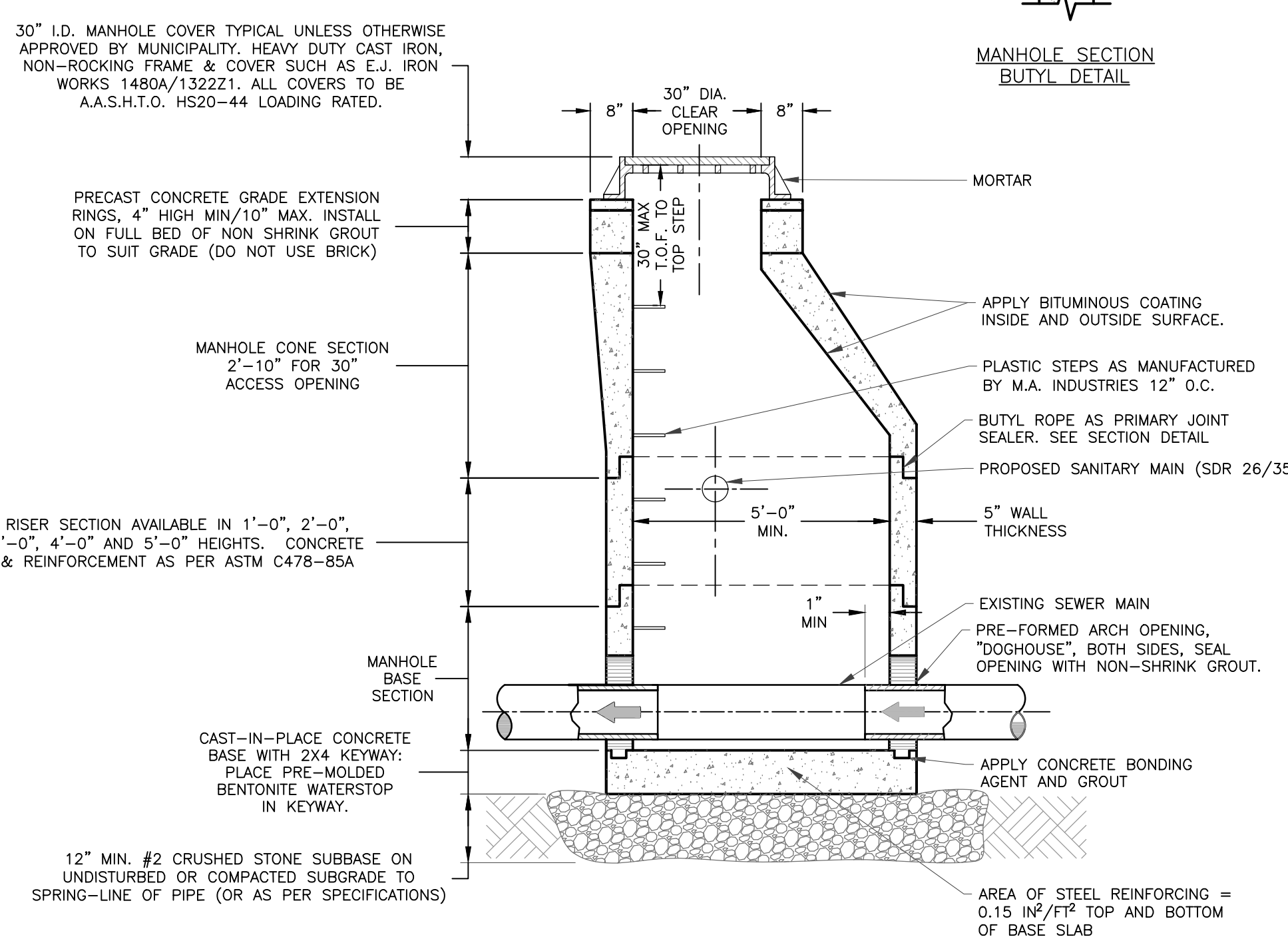
TYPICAL TRENCH DETAIL

SCALE: NTS



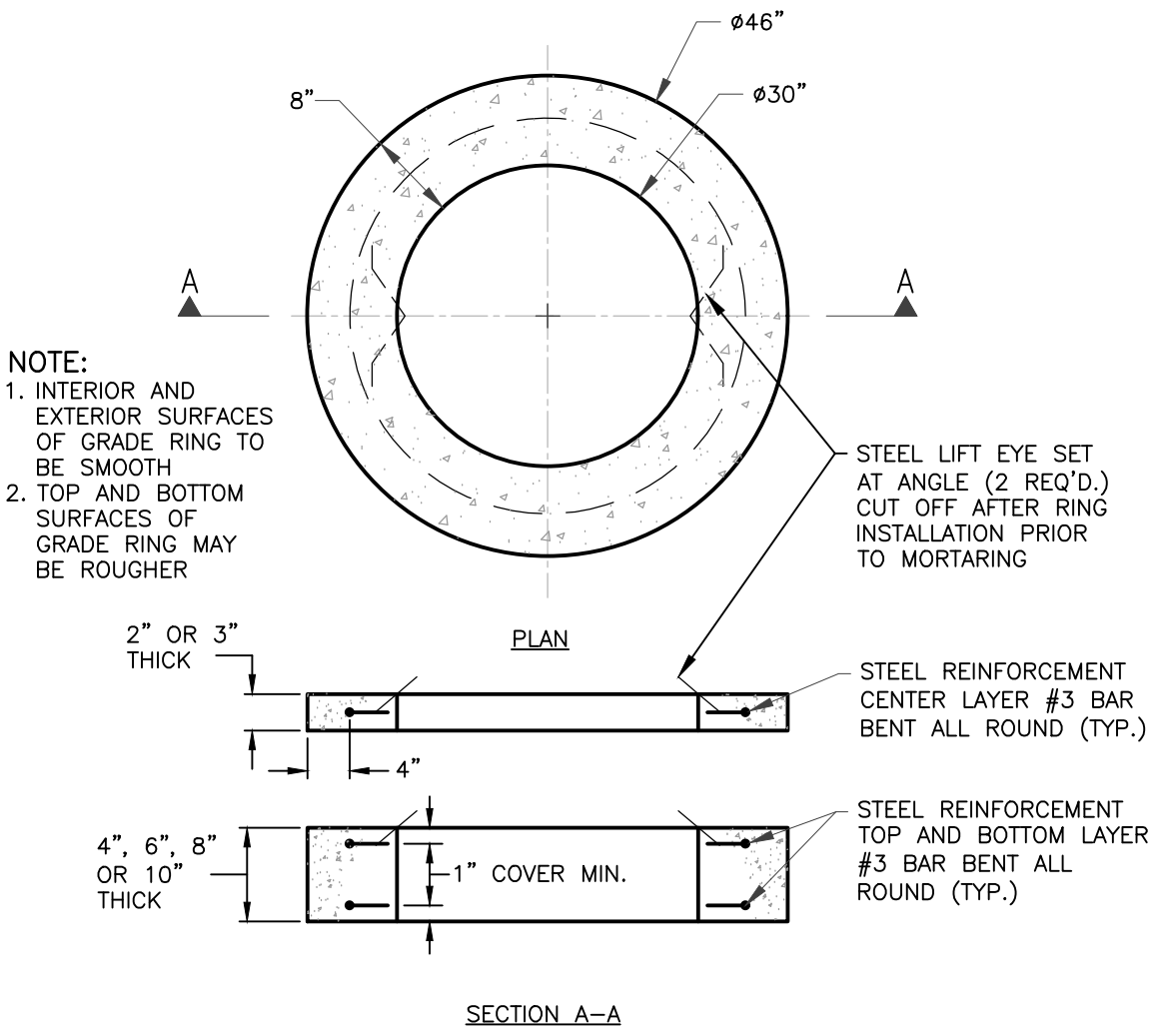
SANITARY MANHOLE

SCALE: NTS



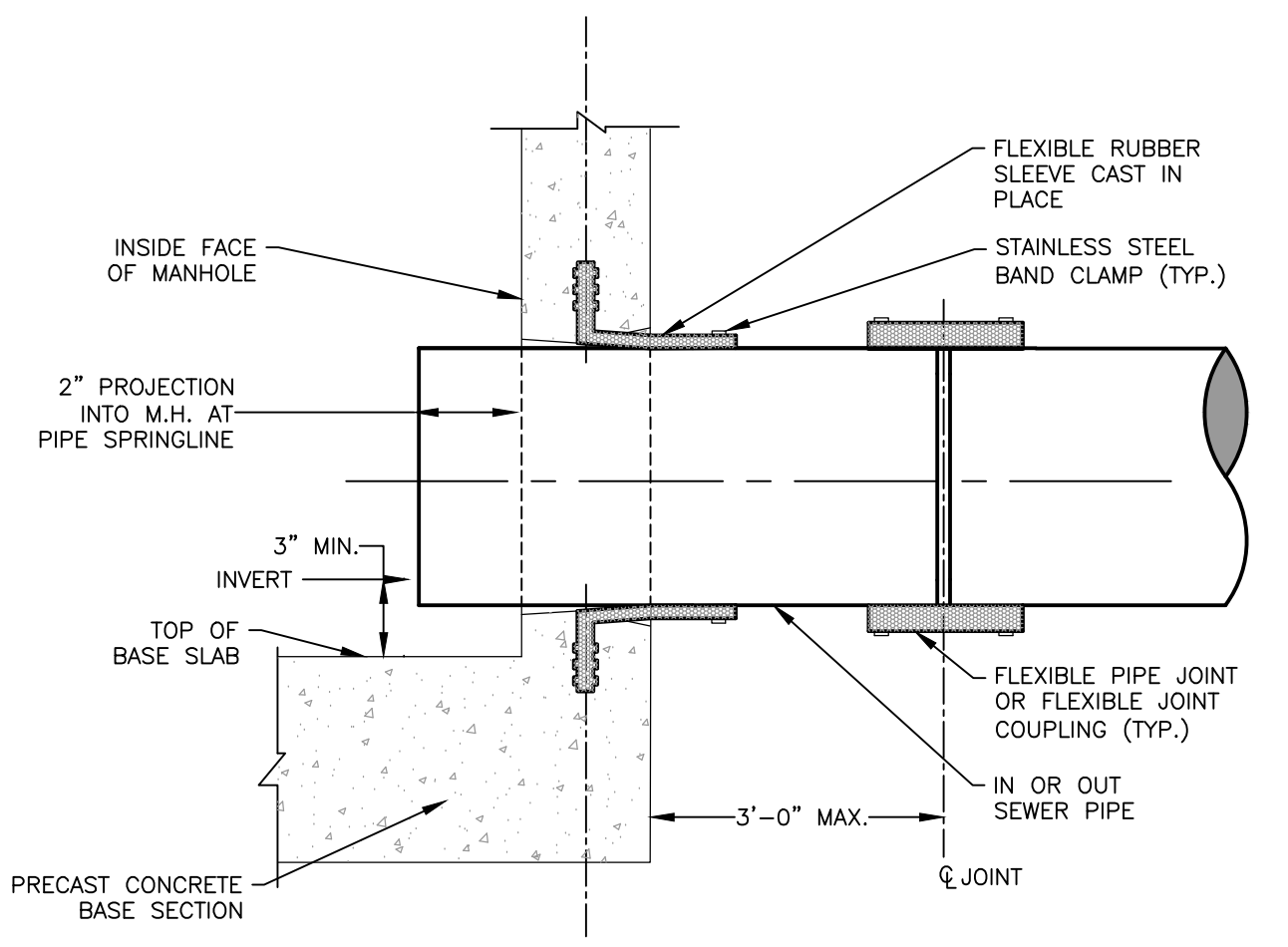
INSERTION SANITARY MANHOLE

SCALE: NTS



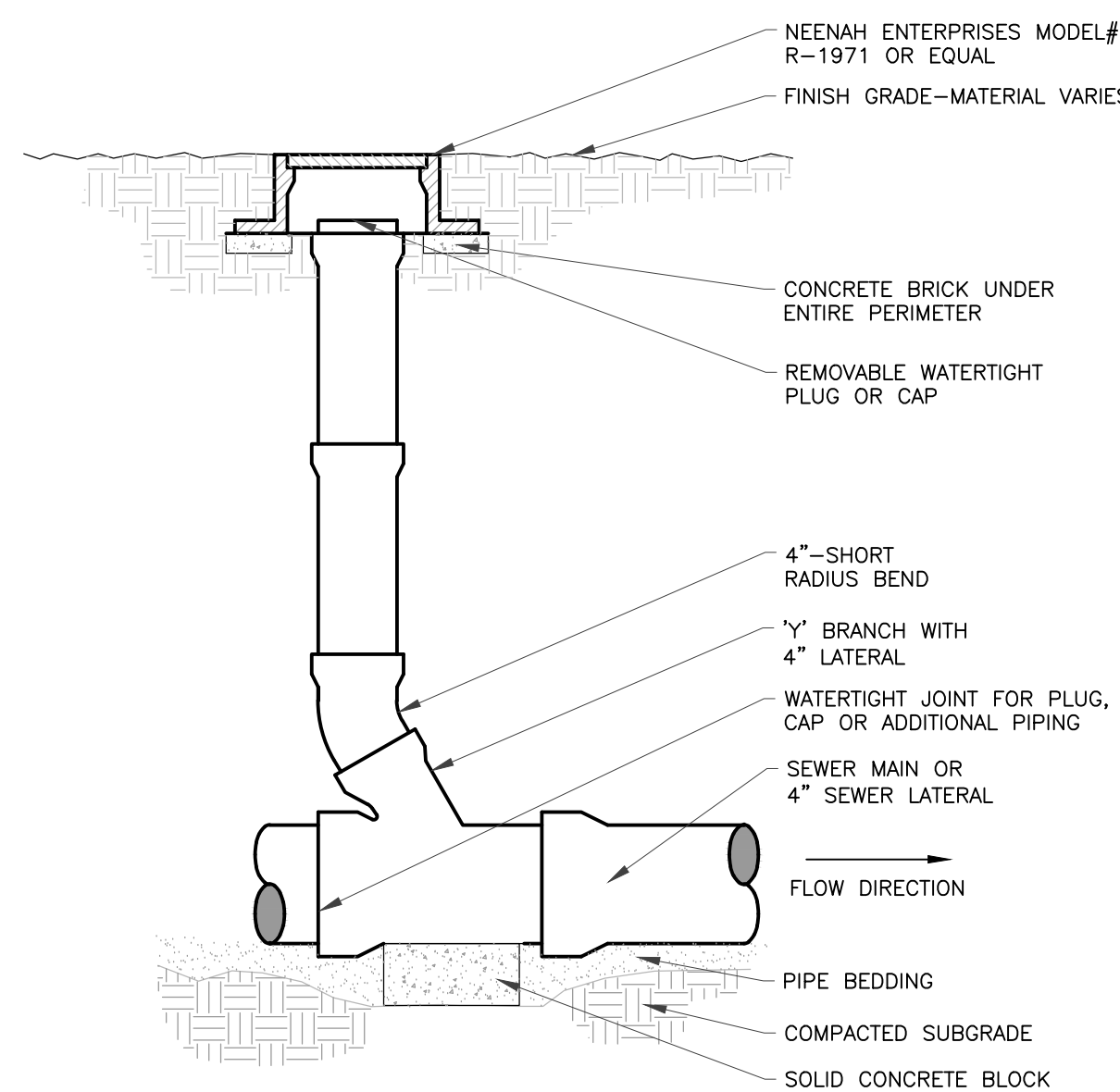
GRADE RING DETAIL

SCALE: NTS



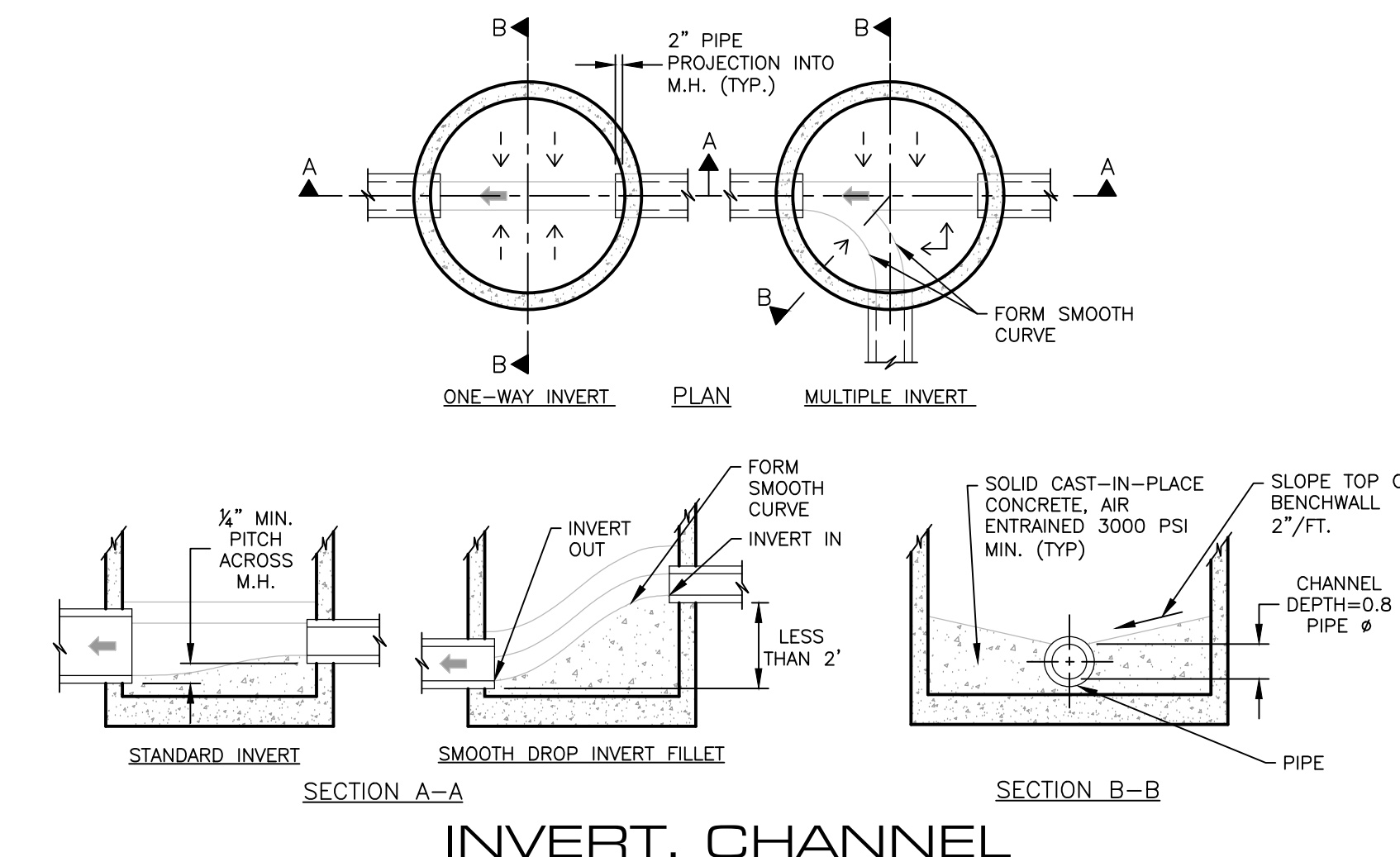
FLEXIBLE PIPE TO MH JOINT DETAILS

SCALE: NTS



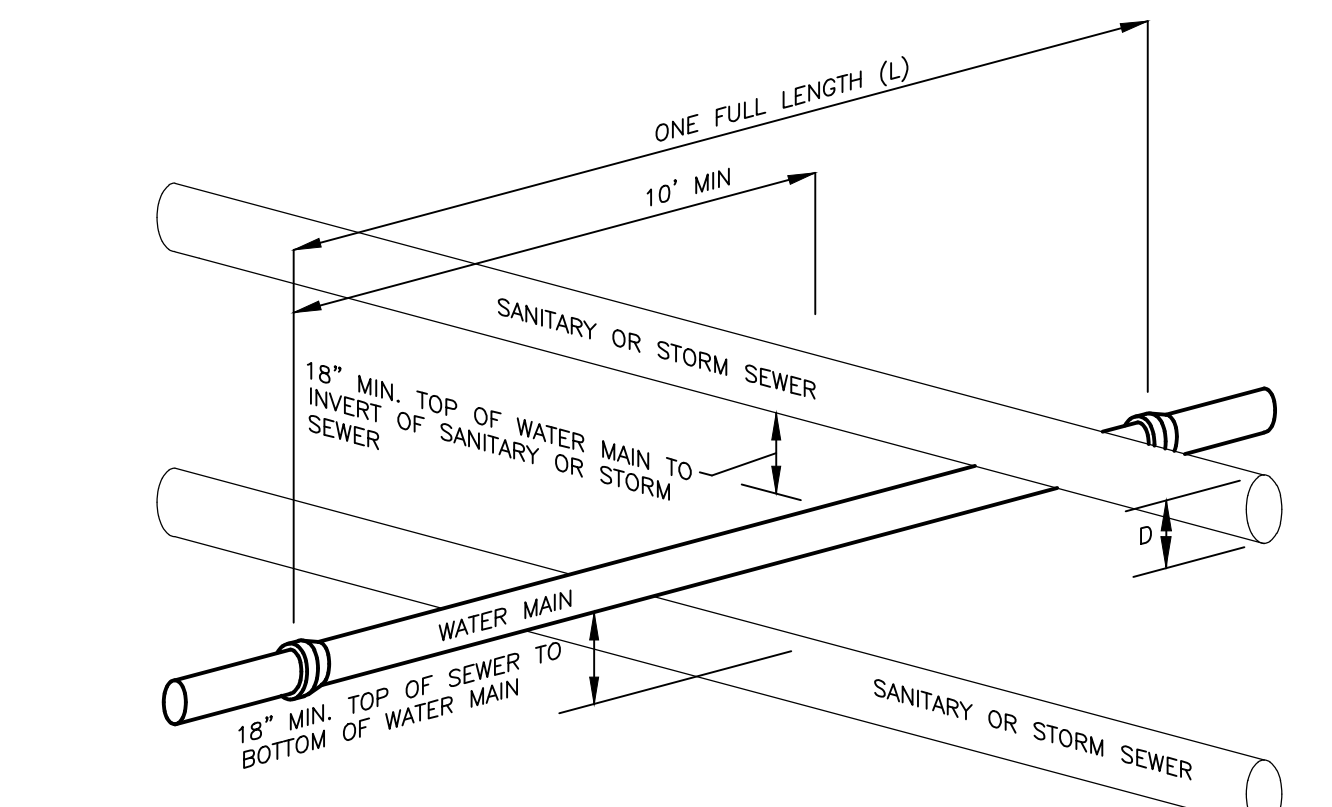
TYPICAL CLEAN OUT

SCALE: NTS



INVERT, CHANNEL AND BENCHWALL DETAILS

SCALE: N.T.S.



TYP. SEPARATION REQUIREMENTS

SCALE: NTS

NOTES:

- THE CONTRACTOR SHALL NOTIFY THE TOWN OF MORIAH SANITARY SEWER DEPARTMENT AT LEAST 24 HOURS PRIOR TO THE START OF ANY SEWER RELATED WORK.
- THE CONTRACTOR SHALL OBTAIN SANITARY SEWER CONSTRUCTION PERMITS PRIOR TO CONSTRUCTION OF ANY SANITARY SEWERS.
- ALL NECESSARY EASEMENTS TO BE FILED PRIOR TO THE ISSUANCE OF A SEWER CONSTRUCTION PERMIT.
- NO GLEF FITTINGS, JOINTS OR BUSHINGS SHALL BE USED.
- FOR GRAVITY SEWER REPAIRS, CONNECTIONS, COUPLINGS SHALL BE:
 - SDR 21 OR SDR 26 COUPLINGS
 - "SHEAR GUARD" COUPLING BY INDIANA GUARD - A GPK PRODUCTS COMPANY
 - "STRONG BACK" BY FERRO OR APPROVED EQUAL
- CONTRACTOR SHALL SUBMIT SLIP USING MANUFACTURER AND SPECIFICATIONS FOR REVIEW
- FOR TIE-IN CONNECTIONS, THE FOLLOWING SADDLES SHALL BE USED:
 - STAINLESS STEEL TAPPING SLEEVE, Banded Repair Service SADDLE, FULL CIRCLE REPAIR CLAMP FOR TAPPING BY SMITH BLAIR, JCM INDUSTRIES SERVICE SADDLE OR APPROVED EQUAL
 - FERROID "QUICKSEAL" (GRAVITY SEWER ONLY)
 - INSERTA TEE (GRAVITY SEWER ONLY)
- CONTRACTOR SHALL SUBMIT SPECIFICATIONS FOR ALL VACUUM TESTING FOR REVIEW
- THE TOWN OF MORIAH SANITARY SEWER DEPARTMENT RESERVES THE RIGHT AT THEIR DISCRETION TO CHANGE, MODIFY, AND/OR REMOVE PORTIONS OF THESE DETAIL SPECIFICATIONS AT ANY TIME.

GRAVITY SEWER TESTING:

NOTE:

- STRAIGHT ALIGNMENT SHALL BE CHECKED BY USING A LASER BEAM OR LAMPING.
- LEDGE ROCK, BOULDERS AND LARGE STONES SHALL BE REMOVED TO PROVIDE A MINIMUM CLEARANCE OF 4" BELOW AND ON EACH SIDE OF ALL PIPES.
- DEBRIS, FROZEN MATERIAL, LARGE CLOSURES OR STONES, ORGANIC MATTER, OR OTHER UNSUITABLE MATERIALS SHALL BE ELIMINATED FROM USE AS BACKFILL WITHIN 2" OF TOP OF PIPE.
- BACKFILL SHALL BE PLACED SO AS NOT TO DISTURB PIPE ALIGNMENT.

TEST REQUIREMENTS:

IT IS THE INTENTION OF THESE CONSTRUCTION STANDARDS TO SECURE A SYSTEM WITH A MINIMUM AMOUNT OF INFILTRATION.

A. DEFLECTION TEST

B. LOW PRESSURE AIR TEST

C. T.V. INSPECTION OF GRAVITY LINE

D. CORROSIORATIVE INFILTRATION TEST

(THREE (3) SECTIONS WITH GREATEST AIR LOSS).

THESE TESTS MUST BE COMPLETED BEFORE HOUSE SERVICES ARE CONNECTED TO THE SYSTEM.

INFILTRATION TEST: INFILTRATION TESTING IS AN ACCEPTABLE LEAKAGE TEST ONLY WHEN THE GROUND WATER LEVEL IS SUITABLY HIGHER THAN THE PIPE. THE OWNER SHALL FURNISH AND MAINTAIN A "Y" NOTCH SHARP CRESTED WEIR IN A WOOD FRAME TIGHTLY SECURED IN THE SEWER SYSTEM AT THE LOCATION DIRECTED BY THE TOWN. THE MAXIMUM ALLOWABLE INFILTRATION SHALL BE (50) GALLONS PER MILE, PER INCH OF DIAMETER OF SEWER MAIN, PER 24-HOUR DAY AT ANY TIME. THE PERIOD OF TESTING SHALL BE A MINIMUM OF ONE (1) HOUR.

EXFILTRATION TESTS: EXFILTRATION TESTING IS AN ACCEPTABLE LEAKAGE TEST ONLY IN DRY AREAS OR WHEN THE GROUND WATER LEVEL IS SUITABLY LOW. THE OWNER SHALL FURNISH AND MAINTAIN THE NECESSARY PLUGS, STOPPERS, WATER SUPPLY AND MEASURING DEVICES AT LOCATIONS REQUIRED BY THE TOWN. ALL OPENINGS IN THE SECTION OF THE SYSTEM TO BE TESTED SHALL BE SECURELY STOPPED AND THE SECTION FILLED WITH WATER TO PROVIDE A MINIMUM OF (2) FEET OF HEAD OVER ALL SEWERS IN THE SECTION, OR (2) FEET HIGHER THAN THE GROUND WATER LEVEL, WHICHEVER IS HIGHER. AFTER FILLING, THE SYSTEM SHALL BE ALLOWED TO STAND A MINIMUM (12) HOURS BEFORE CONDUCTING THE TEST. THE MAXIMUM ALLOWABLE EXFILTRATION SHALL BE (50) GALLONS PER MILE PER INCH DIAMETER OF THE SEWER MAIN PER (24) HOUR DAY AT ANY EXCEED (25) FEET OF WATER.

TABLE 4.4.1

PIPE DIAMETER (IN.)	MINIMUM TIME (MIN-SEC)	LENGTH FOR MINIMUM TIME (FT.)	TIME FOR LONGER LENGTH (SEC.)
4	3:46	597	0.380 L
6	5:40	398	0.854 L
8	7:34	298	1.520 L
10	9:36	239	2.374 L
12	11:20	194	3.418 L
15	14:10	159	5.342 L
18	17:00	133	7.692 L
21	19:50	114	10.470 L
24	22:40	99	13.674 L
27	25:30	88	17.306 L
30	28:20	80	21.366 L
33	31:10	72	25.852 L
36	34:00	66	30.768 L

(WHERE "L" IS THE EXCESS TEST LENGTH BEYOND THE LENGTH FOR MINIMUM TIME.)

ANY SECTION OF SEWER SYSTEM THAT SHOWS LEAKAGE IN EXCESS OF THE ALLOWABLE LIMITS SHALL BE REPAIRED BY MEANS SATISFACTORY TO THE TOWN. WHEN THE SYSTEM HAS BEEN DEMONSTRATED TO BE WITHIN ALLOWABLE LIMITS THE OWNER SHALL REMOVE ALL PLUGS, STOPPERS AND WEIRS.

DEFLECTION TEST: SEWERS MUST BE STRAIGHT BETWEEN MANHOLES, AND SHALL BE TESTED FOR STRAIGHTNESS BY FLASHING A LIGHT FROM MANHOLE TO MANHOLE, LAMPING, OR BY OTHER SUITABLE MEANS.

SECTIONS FOUND TO BE UNACCEPTABLE SHALL BE SUBJECT TO FURTHER DEFLECTION TESTING BY MEANS OF PULLING AN APPROPRIATELY SIZED MANDREL THROUGH PIPE. THE TOWN ENGINEER MAY ALSO REQUIRE THIS TYPE OF DEFLECTION TESTING WHERE CONSTRUCTION ENCOUNTERED UNSTABLE TRENCH WALLS OR BOTTOMS, HEAVY RAINFALL, FROZEN SOIL, HIGH GROUND WATER LEVELS, DEEP LINES, OR MICROPRO COMPACTATION. THE OWNER SHALL FURNISH AND MAINTAIN THE APPROPRIATE SIZE MANDRELS FOR THE PIPE SIZE BEING TESTED, AS DETERMINED FROM TABLE 4.4.2 BASED ON 75% ALLOWABLE DEFLECTION. ALL NECESSARY ROPE, FITTINGS AND LABOR SHALL ALSO BE THE OWNER'S RESPONSIBILITY. ANY SECTIONS FOUND TO BE UNACCEPTABLE WILL BE REPAIRED OR REPLACED TO MEET TOWN STANDARDS.

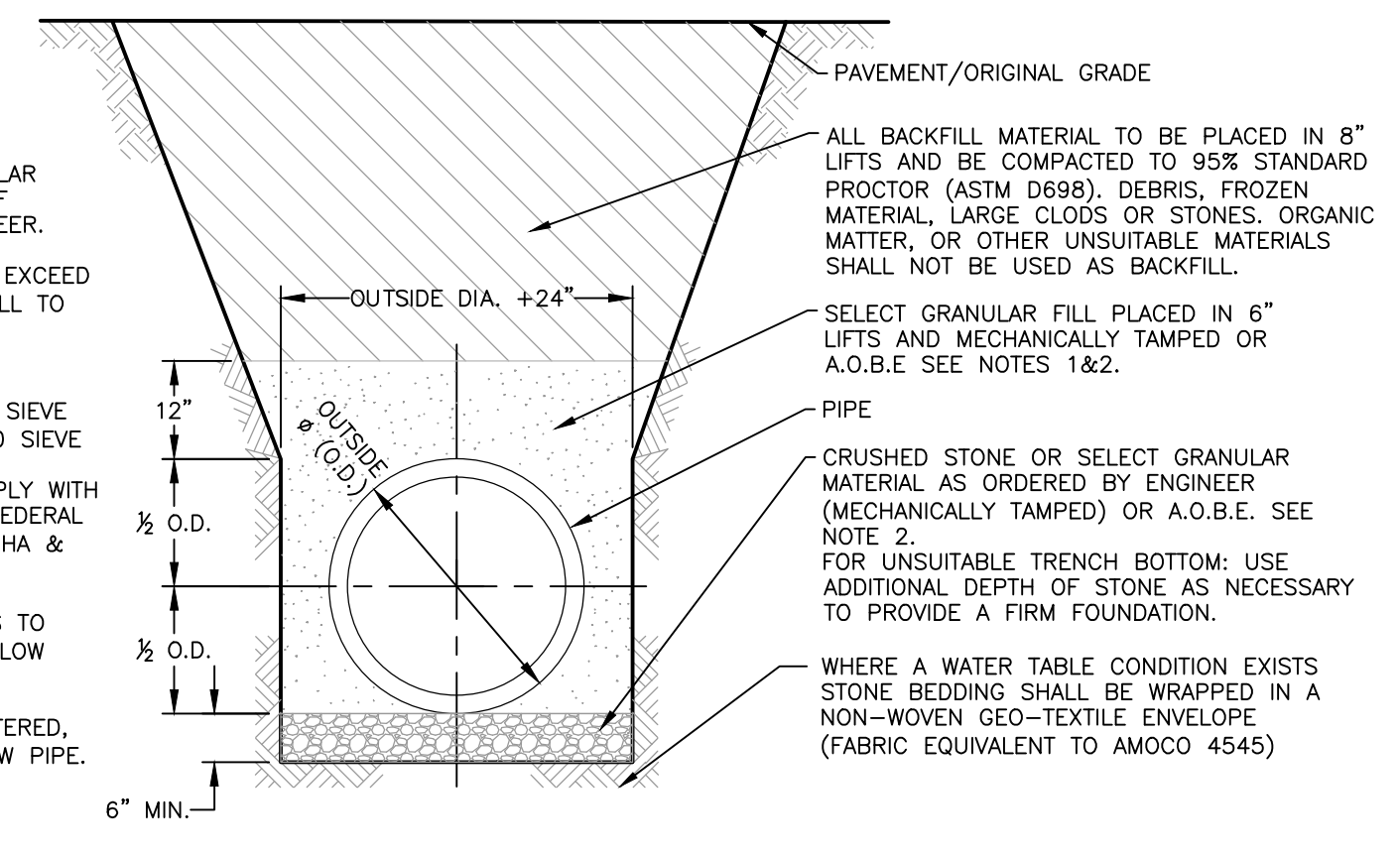
TABLE 4.4.2

SPECIFIED MANDREL SIZE FOR PIPE DIAMETER INDICATED

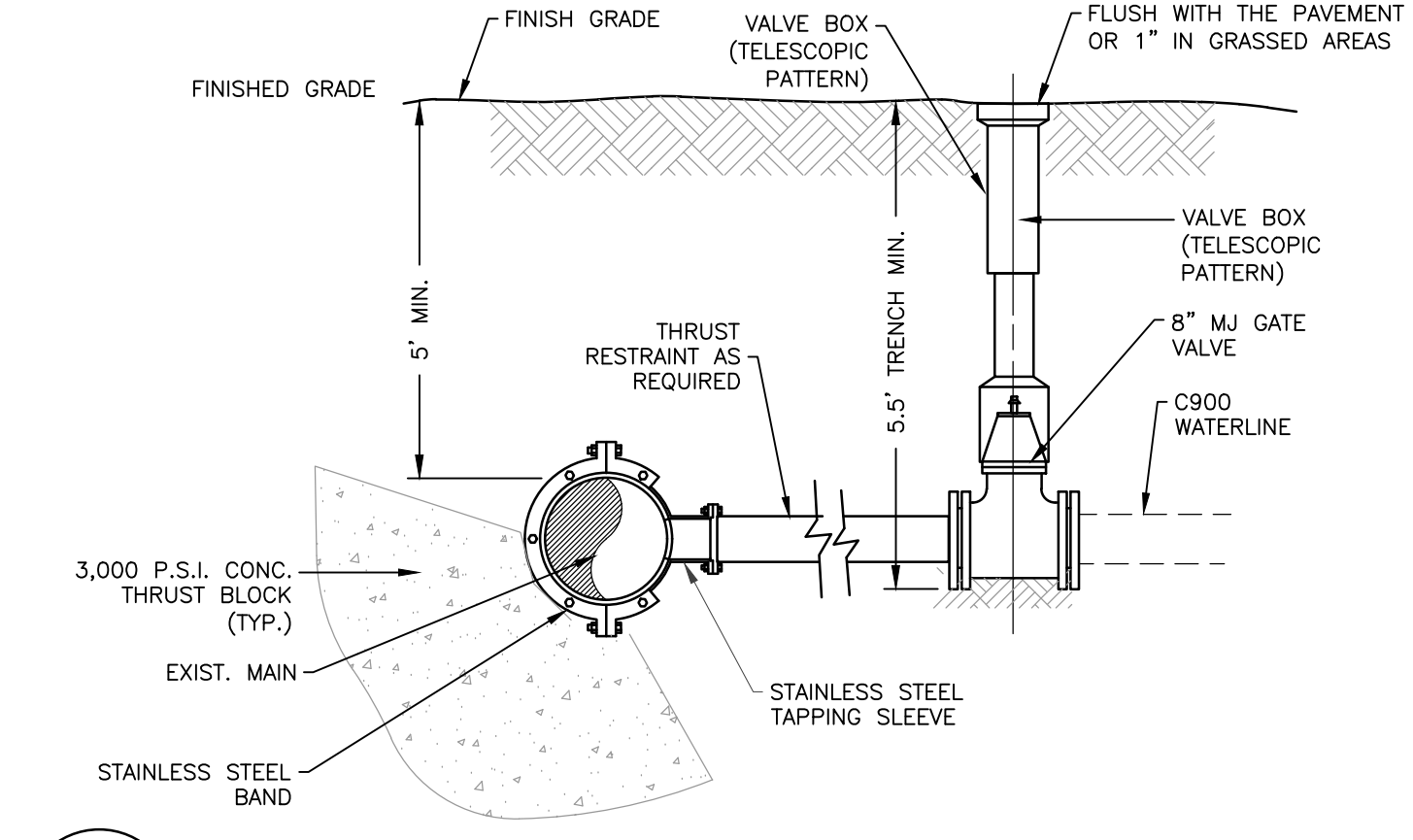
PIPE DIAMETER (IN.)	MANDREL O.D. (IN.)
6	5.31
8	7.09
10	8.85
12	10.51
15	12.86
18	15.70
21	18.50
24	20.80
27	23.43

ESSEX BOCES FACILITY
 PLANK ROAD, TOWN OF MORIAH, ESSEX COUNTY, NEW YORK
 REVISION RECORD/DESCRIPTION
 DATE
 UNAUTHORIZED ADDITION TO THIS LOCATION OF THE INSIGHT LANSING ENGINEERING, P.C.
LANSING ENGINEERING
 CIVIL, TRANSPORTATION, ENVIRONMENTAL, LAND DEVELOPMENT
 PRELIMINARY / NOT FOR CONSTRUCTION

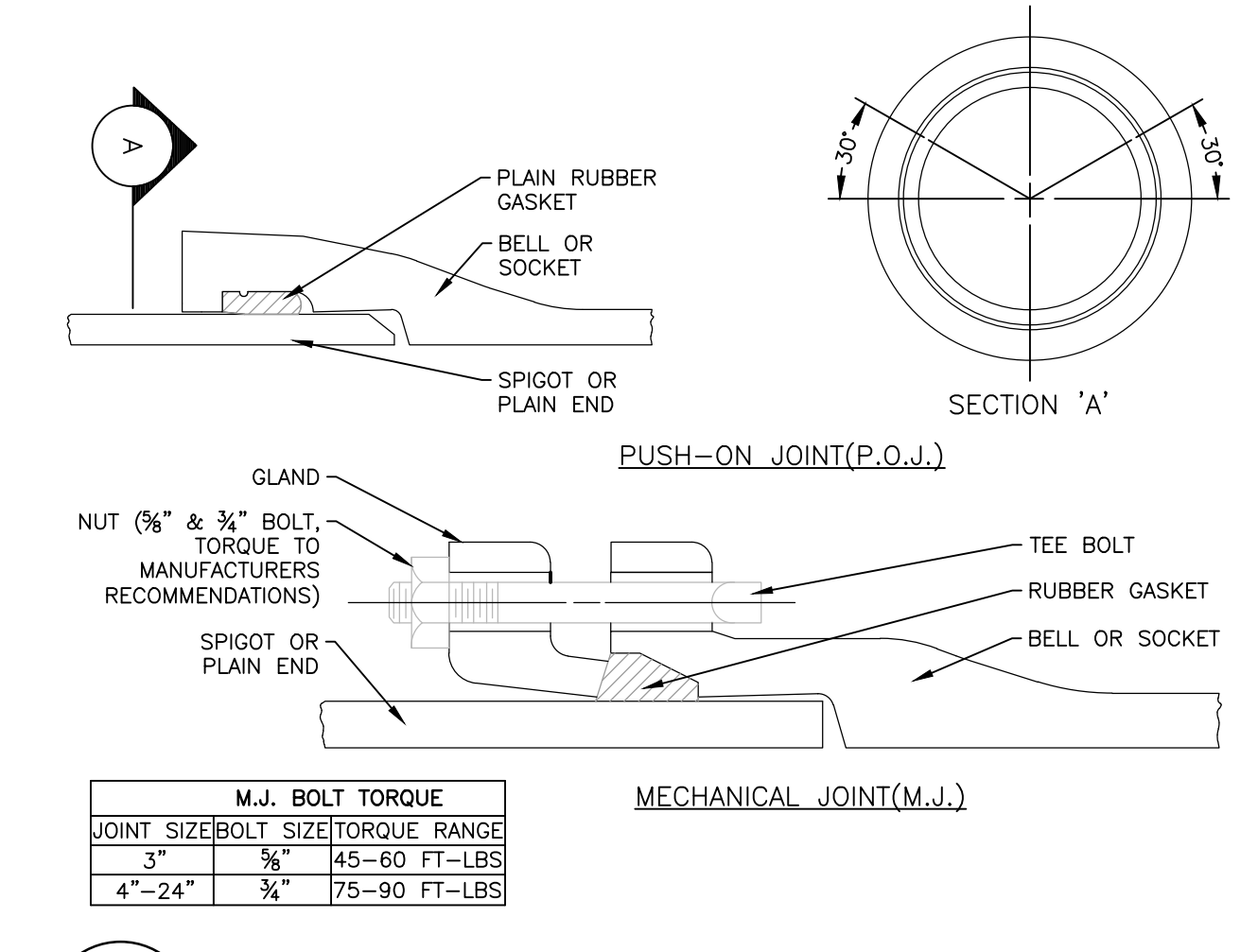
- NOTES:**
1. NATIVE EXCAVATED GRANULAR MATERIAL MAY BE USED IF APPROVED BY THE ENGINEER.
 2. CRUSHED STONE NOT TO EXCEED #2 IN SIZE. GRANULAR FILL TO MEET THE FOLLOWING REQUIREMENTS:
0% IN EXCESS OF 3"
25%-75% PASSING #4 SIEVE
0%-15% PASSING #200 SIEVE
 3. CONTRACTORS MUST COMPLY WITH ALL LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS. (OSHA & NYS DOT)
 4. OVER-EXCAVATE AT BELLS TO PROVIDED 6" BEDDING BELOW BELLS.
 5. WHERE ROCK IS ENCOUNTERED, EXCAVATE A MIN 6" BELOW PIPE.



1 TYPICAL TRENCH DETAIL FOR DUCTILE IRON PIPE
SCALE: NTS



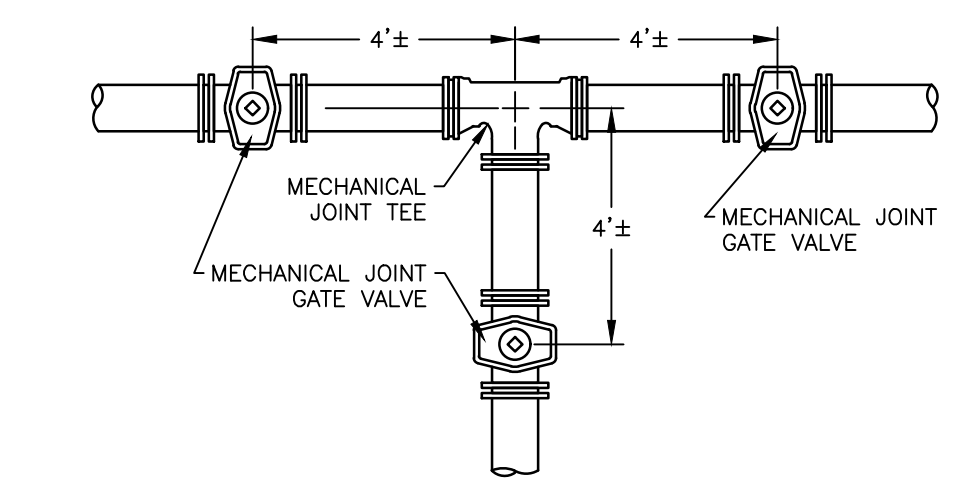
2 TAPPING SLEEVE AND VALVE
SCALE: NTS



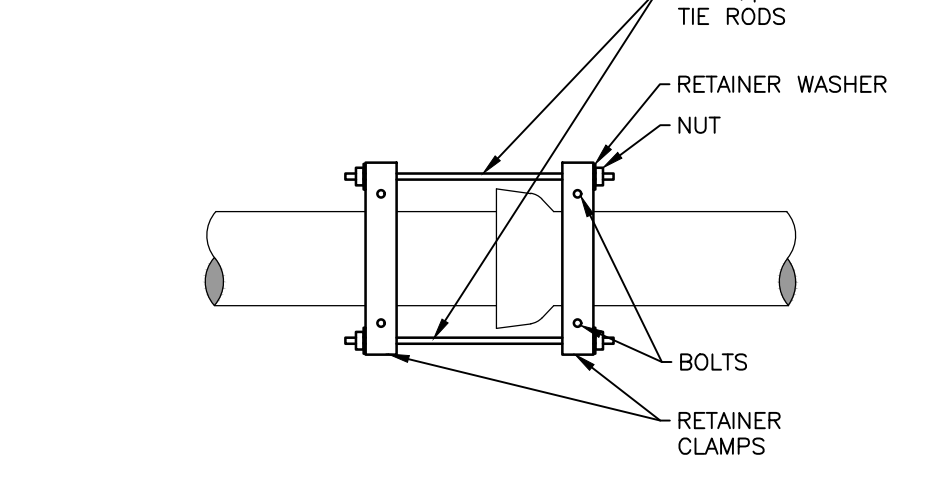
3 TYPICAL JOINT DETAIL
SCALE: NTS

M.J. BOLT TORQUE

JOINT SIZE	BOLT SIZE	TORQUE RANGE
3"	3/8"	45-60 FT-LBS
4"-24"	3/4"	75-90 FT-LBS



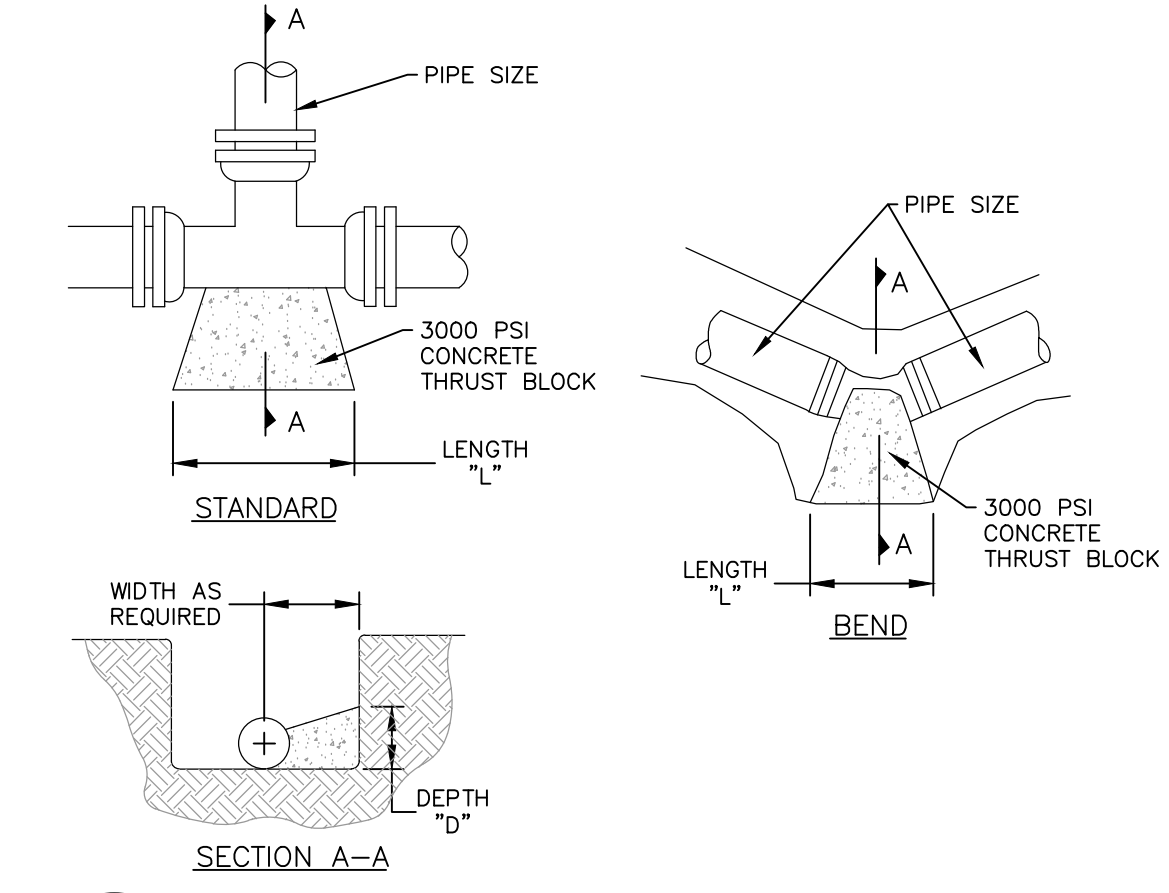
4 TYPICAL JUNCTION LAYOUT
SCALE: NTS



5 RESTRAINED PUSH-ON JOINTS
SCALE: NTS

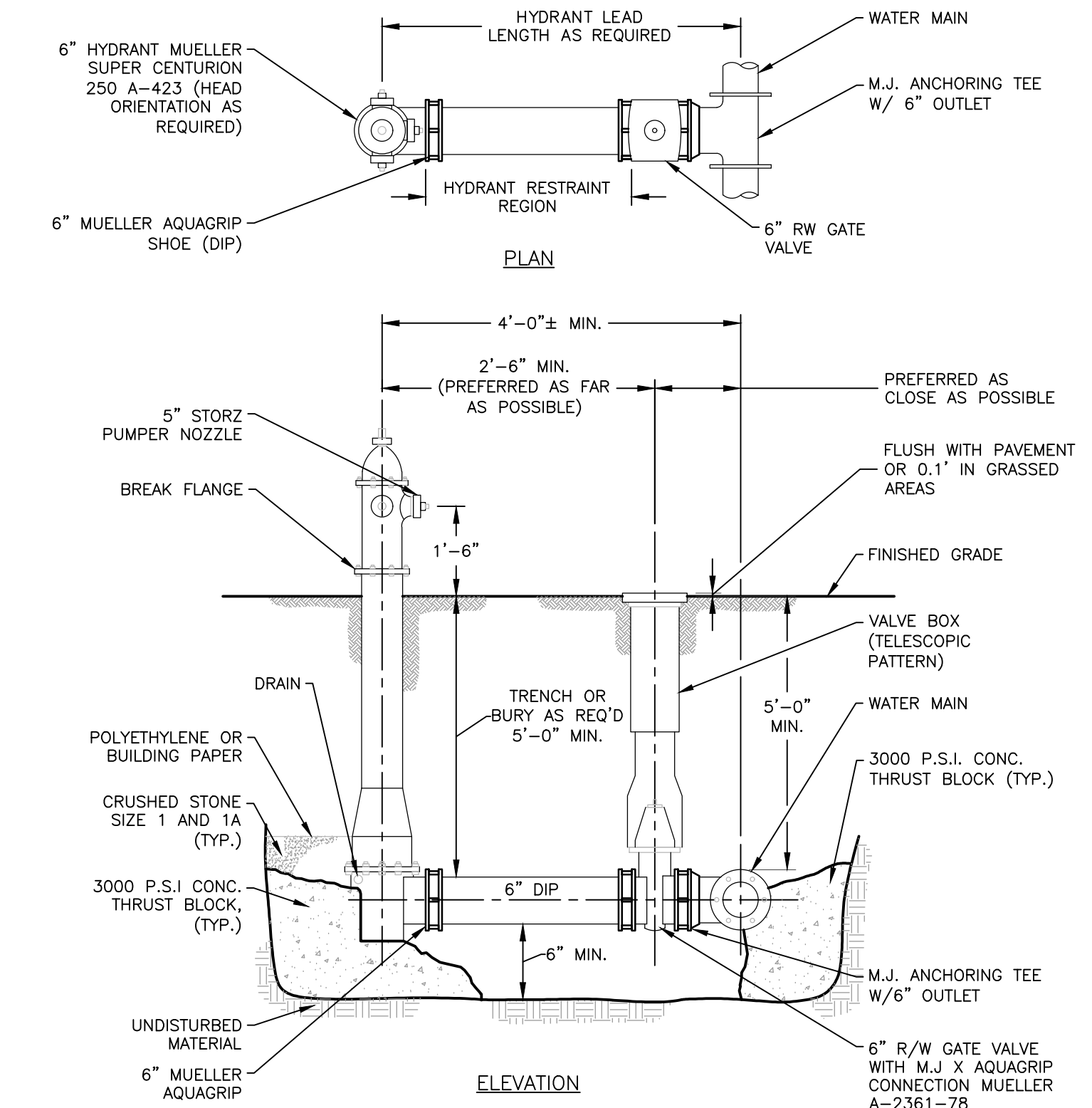
REQUIRED BEARING AREAS & DIMENSIONS FOR CONCRETE THRUST BLOCKS

PIPE SIZE (IN.)	90% BEND		45% BEND		22.5% BEND		11% BEND	
	AREA S.F.	DIMEN. D & L	AREA S.F.	DIMEN. D & L	AREA S.F.	DIMEN. D & L	AREA S.F.	DIMEN. D & L
4"	1.4	1.0 x 1.5	2.0	1.0 x 2.0	1.1	1.0 x 1.0	0.6	1.0 x 1.0
6"	3.2	1.5 x 2.5	4.5	2.0 x 2.5	2.4	1.5 x 2.0	1.2	1.0 x 1.5
8"	5.7	2.0 x 3.0	8.0	2.0 x 4.0	4.3	2.0 x 2.5	2.2	1.5 x 1.5
12"	12.7	3.5 x 3.5	18.0	4.0 x 4.5	9.7	2.5 x 4.0	5.0	2.0 x 2.5



6 THRUST BLOCK DETAIL
SCALE: NTS

- THRUST BLOCK NOTES**
- 1.) FOR REQUIRED BEARING AREA DIMENSIONS D & L SEE TABLE AT LEFT. DIMENSIONS OF D & L OTHER THAN THOSE SHOWN IN THE TABLE MAY BE USED PROVIDED THEY YIELD A BEARING AREA EQUAL TO OR LARGER THAN THAT REQUIRED.
 - 2.) CONCRETE NOT TO OVERLAP ANY JOINT.
 - 3.) CONCRETE TO BE PLACED SO AS NOT TO INTERFERE WITH REMOVING OR INSTALLING ANY OF THE JOINTING HARDWARE.
 - 4.) APPROXIMATE VOLUME OF CONCRETE THRUST BLOCK.
 $V = \frac{L \cdot D \cdot (W+ID)}{81}$
WHERE:
V = VOLUME IN CUBIC YARDS
L = LENGTH OF BLOCK IN FEET
D = DEPTH OF BLOCK IN FEET
W = WIDTH OF BLOCK IN FEET
ID = INSIDE DIAMETER OF PIPE IN FEET
 - 5.) VALVES FOR TEE ALSO APPLY TO END PLUGS, CAPS AND TAPPING SLEEVES.
 - 6.) REQUIRED BEARING AREAS ARE DUE TO THRUST CAUSED BY 150 PSI WORKING PRESSURE PLUS 50 x (75 PSI) SURGE ALLOWANCE RESULTING IN 225 PSI TOTAL INTERNAL PRESSURE. NORMAL PIPE DIAMETER USED.
 - 7.) REQUIRED BEARING AREAS ARE BASED ON ALLOWABLE SOIL BEARING CAPACITY OF 2000 LBS. PER SQUARE FOOT FOR SAND. DUE TO OTHER SOIL CONDITIONS ENCOUNTERED, BEARING AREAS MAY BE MODIFIED BY ENGINEER.
 - 8.) IN MUCK, PEAT, OR RECENTLY PLACED FILL ALL THRUST SHALL BE RESISTED BY PILES OR 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.



7 TYPICAL HYDRANT INSTALLATION DETAIL
SCALE: NTS

UNAUTHORIZED ADDITION TO THIS LOCATION OF THE MOUNT LANSING ENGINEERING, P.C.

REVISION RECORD/DESCRIPTION
DATE
ESSEX BOCES FACILITY
PLANK ROAD, TOWN OF NORIAH, ESSEX COUNTY, NEW YORK
PRELIMINARY / NOT FOR CONSTRUCTION

LANSING ENGINEERING
REGISTERED PROFESSIONAL ENGINEERS
STATE OF NEW YORK
EIT 15183
EIT 15184
EIT 15185
EIT 15186
EIT 15187
EIT 15188
EIT 15189
EIT 15190
EIT 15191
EIT 15192
EIT 15193
EIT 15194
EIT 15195
EIT 15196
EIT 15197
EIT 15198
EIT 15199
EIT 15200

WATER DETAILS

ACCESSIBILITY NOTES:

GENERAL NOTES:

- SPECIAL ATTENTION SHALL BE GIVEN TO COMPLIANCE WITH THE WITH THE FAIR HOUSING ACCESSIBILITY GUIDELINES, THE BUILDING CODE OF NEW YORK STATE, AND APPLICABLE LOCAL LAWS & REGULATIONS.
- IT IS ESSENTIAL THAT CONTRACTORS ARE AWARE OF THE SITE ACCESSIBILITY REQUIREMENTS. LANSING ENGINEERING HAS DEVELOPED THESE NOTES AND DETAILS TO ASSURE THAT CONTRACTORS ARE AWARE OF THE REQUIREMENTS AT THE POINT IN TIME WHEN THEY ARE BIDDING THE PROJECT. IN ADDITION, LANSING ENGINEERING HAS MADE A POINT IN THESE NOTES AND DETAILS, AS WELL AS IN OUR DRAWINGS, TO PROVIDE SLOPES / GRADES AND DIMENSIONS THAT COMPLY WITH FAIR HOUSING ACCESSIBILITY GUIDELINES, THE BUILDING CODE OF NEW YORK STATE AND APPLICABLE LOCAL LAWS & REGULATIONS. IF THESE SLOPES / GRADES AND DIMENSIONS ARE NOT ACHIEVABLE, THE CONTRACTOR IS REQUIRED TO CONTACT THE OWNER IMMEDIATELY AND BEFORE MOVING FORWARD WITH THE WORK.
- THE CONTRACTOR SHALL NOTIFY LANSING ENGINEERING IMMEDIATELY OF ANY CONFLICT BETWEEN THESE NOTES AND DETAILS AND OTHER PROJECT DRAWINGS, WHETHER BY LANSING ENGINEERING OR OTHERS. THE CONTRACTOR SHALL NOT PROCEED WITH THE WORK FOR WHICH THE ALLEGED CONFLICT HAS BEEN DISCOVERED UNTIL SUCH ALLEGED CONFLICT HAS BEEN RESOLVED. NO CLAIM SHALL BE MADE BY THE CONTRACTOR FOR DELAY DAMAGES AS A RESULT OF RESOLUTION OF ANY SUCH CONFLICT(S).
- THESE ACCESSIBILITY NOTES AND DETAILS ARE INTENDED TO DEPICT SLOPE AND DIMENSIONAL REQUIREMENTS ONLY. REFER TO SIDEWALK, CURBING, AND PAVEMENT DETAILS FOR ADDITIONAL INFORMATION.

ACCESSIBLE ROUTE NOTES:

- AT LEAST ONE ACCESSIBLE ROUTE SHALL BE PROVIDED WITHIN THE SITE FROM ACCESSIBLE PARKING SPACES AND ACCESSIBLE PASSENGER LOADING ZONES; PUBLIC STREETS OR SIDEWALKS; AND PUBLIC TRANSPORTATION STOPS TO THE ACCESSIBLE BUILDING OR FACILITY THEY SERVE.
- AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDINGS, ACCESSIBLE FACILITIES, ACCESSIBLE ELEMENTS, AND ACCESSIBLE SPACES THAT ARE ON THE SAME SITE.
- WALKING SURFACES SHALL HAVE A MAXIMUM RUNNING SLOPE OF 5.0% AND A MAXIMUM CROSS SLOPE OF 2.0%.
- ANY WALKING SURFACE WITH A RUNNING SLOPE GREATER THAN 5.0% IS A RAMP AND SHALL COMPLY WITH THE GUIDELINES FOR RAMPS OR CURB RAMPS.
- TRANSITIONS BETWEEN RAMPS, WALKS, LANDINGS, GUTTERS OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT VERTICAL CHANGES (1/4 INCH MAXIMUM VERTICAL CHANGE IN LEVEL).
- FLOOR SURFACES SHALL BE STABLE, FIRM AND SLIP RESISTANT.
- THE MINIMUM CLEAR WIDTH OF EXTERIOR ROUTES SHALL BE THIRTY SIX (36) INCHES MINIMUM.
- WHERE AN ACCESSIBLE ROUTE TAKES A 180 DEGREE TURN AROUND AN OBJECT THAT IS LESS THAN FORTY-EIGHT (48) INCHES IN WIDTH, CLEAR WIDTH SHALL BE FORTY-TWO (42) INCHES MINIMUM APPROACHING THE TURN, FORTY-FIVE (45) INCHES MINIMUM DURING THE TURN, AND FORTY-TWO (42) INCHES MINIMUM LEAVING THE TURN. THE CLEAR WIDTH APPROACHING AND LEAVING THE TURN MAY BE THIRTY-SIX (36) INCHES MINIMUM WHEN THE CLEAR WIDTH AT THE TURN IS SIXTY (60) INCHES MINIMUM.
- AN ACCESSIBLE ROUTE WITH A CLEAR WIDTH LESS THAN SIXTY (60) INCHES SHALL PROVIDE PASSING SPACES AT INTERVALS OF TWO HUNDRED (200) FEET MAXIMUM. PASSING SPACES SHALL BE EITHER A SIXTY (60) INCH MINIMUM BY SIXTY (60) INCH MINIMUM SPACE; OR AN INTERSECTION OF TWO (2) WALKING SURFACES THAT PROVIDE A COMPLIANT T-SHAPED TURNING SPACE, PROVIDED THE BASE AND ARMS OF THE T-SHAPED SPACE EXTEND FORTY-EIGHT (48) INCHES MINIMUM BEYOND THE INTERSECTION.
- DOORS, DOORWAYS AND GATES THAT ARE PART OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH THE FAIR HOUSING ACCESSIBILITY GUIDELINES, THE NEW YORK STATE BUILDING CODE, AND APPLICABLE LOCAL LAWS & REGULATIONS.
- DIRECTIONAL SIGNAGE INDICATING THE ROUTE TO THE NEAREST ACCESSIBLE BUILDING ENTRANCE SHALL BE PROVIDED AT INACCESSIBLE BUILDING ENTRANCES.
- WHERE POSSIBLE, DRAINAGE INLETS SHALL NOT BE LOCATED ON AN ACCESSIBLE ROUTE IN THE EVENT THAT A DRAINAGE INLET MUST BE LOCATED ON AN ACCESSIBLE ROUTE, THE GRATE SHALL COMPLY WITH THE FAIR HOUSING ACCESSIBILITY GUIDELINES, THE BUILDING CODE OF NEW YORK STATE, AND APPLICABLE LOCAL LAWS & REGULATIONS.

RAMP NOTES:

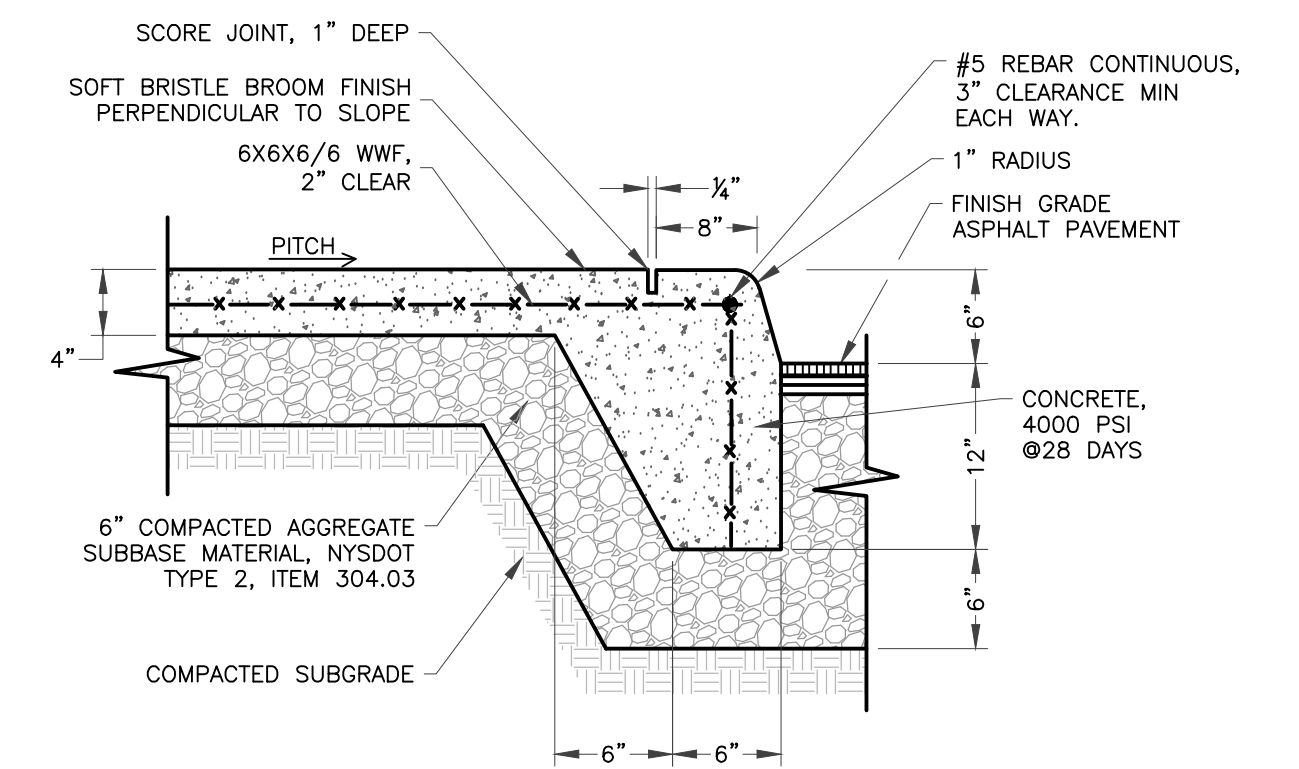
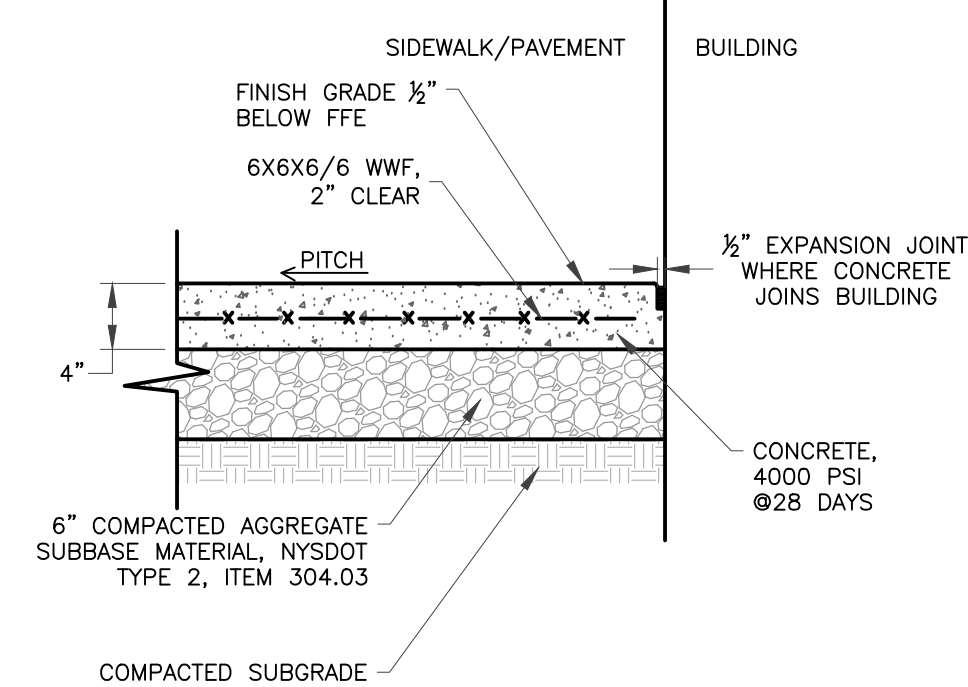
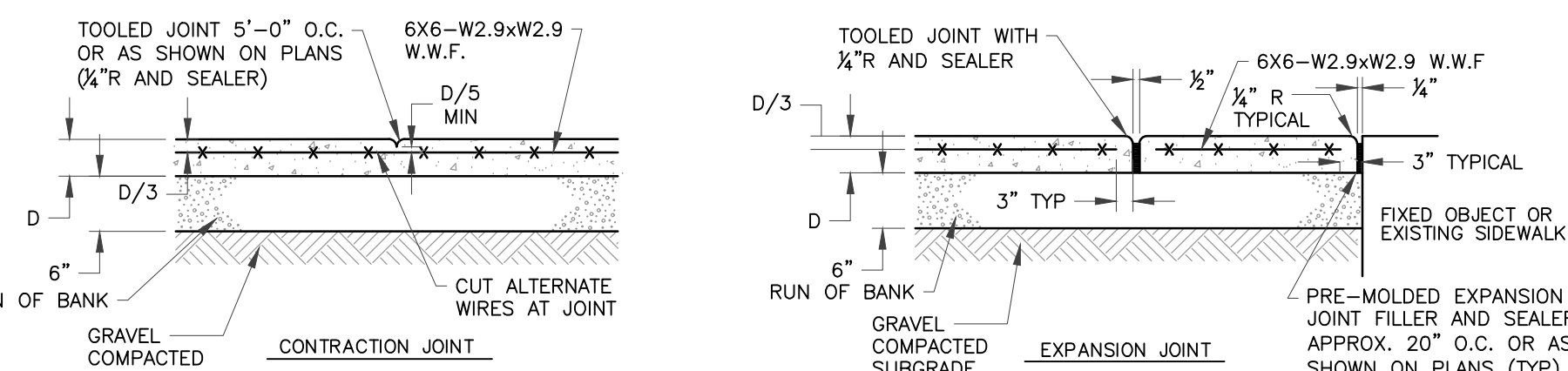
- ANY PART OF AN ACCESSIBLE ROUTE WITH A RUNNING SLOPE GREATER THAN 5% SHALL BE CONSIDERED A RAMP.
- THE MAXIMUM RUNNING SLOPE FOR A RAMP SHALL BE 8.33% AND THE MAXIMUM CROSS SLOPE SHALL BE 2.0%.
- THE CLEAR WIDTH OF AN EXTERIOR RAMP RUN SHALL BE FORTY EIGHT INCHES. WHERE HANDRAILS ARE PROVIDED ON THE RAMP RUN, THE CLEAR WIDTH SHALL BE MEASURED BETWEEN THE HANDRAILS.
- THE RISE FOR ANY RAMP RUN SHALL BE THIRTY (30) INCHES MAXIMUM.
- LANDINGS SHALL BE PROVIDED AT THE TOP AND BOTTOM OF RAMPS. LANDINGS SHALL HAVE A SLOPE NOT STEEPER THAN 2.0% IN ANY DIRECTION. THE LANDING CLEAR WIDTH SHALL BE AT LEAST AS WIDE AS THE WIDEST RAMP RUN LEADING TO THE LANDING. THE LANDING CLEAR LENGTH SHALL BE SIXTY (60) INCHES LONG MINIMUM. RAMPS THAT CHANGE DIRECTION BETWEEN RUNS AT LANDINGS SHALL HAVE A CLEAR LANDING OF SIXTY (60) INCHES MINIMUM.
- RAMP RUNS WITH A RISE GREATER THAN SIX (6) INCHES OR A HORIZONTAL PROJECTION GREATER THAN SEVENTY-TWO (72) INCHES SHALL HAVE HANDRAILS ON BOTH SIDES COMPLYING WITH FAIR HOUSING ACCESSIBILITY GUIDELINES OF NEW YORK STATE, AND APPLICABLE LOCAL LAWS & REGULATIONS.
- FLOOR SURFACES OF RAMPS AND LANDINGS SHALL BE STABLE, FIRM AND SLIP RESISTANT.
- EDGE PROTECTION COMPLYING WITH FAIR HOUSING ACCESSIBILITY GUIDELINES, THE BUILDING CODE OF NEW YORK STATE, AND APPLICABLE LOCAL LAWS & REGULATIONS SHALL BE PROVIDED ON EACH SIDE OF RAMP RUNS AND ON EACH SIDE OF RAMP LANDINGS.
- WHERE DOORWAYS ARE LOCATED ADJACENT TO A RAMP LANDING, MANEUVERING CLEARANCES REQUIRED BY THE BUILDING CODE OF NEW YORK STATE SHALL BE PERMITTED TO OVERLAP THE REQUIRED LANDING AREA. WHERE DOORS THAT ARE SUBJECT TO LOCKING ARE ADJACENT TO A RAMP LANDING, LANDINGS SHALL BE SIZED TO PROVIDE A COMPLIANT TURNING SPACE.

CURB RAMP NOTES:

- THE MAXIMUM RUNNING SLOPE OF A CURB RAMP SHALL BE 8.33% AND THE MAXIMUM CROSS SLOPE SHALL BE 2.0%.
- COUNTER SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO THE CURB RAMP SHALL NOT BE STEEPER THAN 5%. THE ADJACENT SURFACES AT TRANSITIONS AT CURB RAMPS TO WALKS, GUTTERS AND STREETS SHALL BE AT THE SAME LEVEL.
- THE CLEAR WIDTH OF A CURB RAMP SHALL BE SIXTY (60) INCHES MINIMUM, EXCLUSIVE OF FLARED SIDES, IF PROVIDED.
- LANDINGS SHALL BE PROVIDED AT THE TOP OF CURB RAMPS. THE CLEAR LENGTH OF THE LANDING SHALL BE THIRTY-SIX (36) INCHES MINIMUM. THE CLEAR WIDTH OF THE LANDING SHALL BE AT LEAST AS WIDE AS THE CURB RAMP, EXCLUDING FLARED SIDES, LEADING TO THE LANDING. LANDINGS SHALL LEADING TO THE LANDING SHALL BE FLAT IN ANY DIRECTION.
- IF A CURB RAMP IS LOCATED WHERE PEDESTRIANS MUST WALK ACROSS THE RAMP, OR WHERE IT IS NOT PROTECTED BY HANDRAILS OR GUARDRAILS, IT SHALL HAVE FLARED SIDES.
- WHERE PROVIDED, CURB RAMP FLARES SHALL NOT EXCEED 10%.
- CURB RAMPS AND THE FLARED SIDES OF CURB RAMPS SHALL BE LOCATED SO THAT THEY DO NOT PROJECT INTO VEHICULAR TRAFFIC LANES, PARKING SPACES OR PARKING ACCESS AISLES. CURBS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARED SIDES.
- CURB RAMPS SHALL BE LOCATED OR PROTECTED TO PREVENT THEIR OBSTRUCTION BY PARKED VEHICLES.
- CURB RAMPS SHALL HAVE A TWENTY-FOUR (24) INCH DEEP DETECTABLE WARNING COMPLYING WITH 406.12 A117.1-2003, EXTENDING THE FULL WIDTH OF THE RAMP. REFER TO DETECTABLE WARNING DETAILS AND NOTES FOR PLACEMENT, ORIENTATION AND NOTES.
- FLOOR SURFACES OF CURB RAMPS SHALL BE DEEP GROOVED, 1/2 INCH WIDE BY 1/4 INCH DEEP, ONE (1) INCH CENTERS TRANSVERSE TO THE RAMP.
- WHERE PROVIDED, STOP LINES SHALL BE LOCATED IN ADVANCE OF CURB RAMP.
- WHERE PROVIDED, PEDESTRIAN ACTIVATED SIGNALS SHALL BE LOCATED ADJACENT TO THE SIDEWALK AND NOT ON THE SIDEWALK.
- WHERE PROVIDED, DRAINAGE INLETS SHALL BE LOCATED UPSTREAM OF CURB RAMPS AND NOT IN THE RAMP AREA.
- CURB RAMP TYPE AND LOCATION ARE PER PLAN.

PARKING SPACE NOTES:

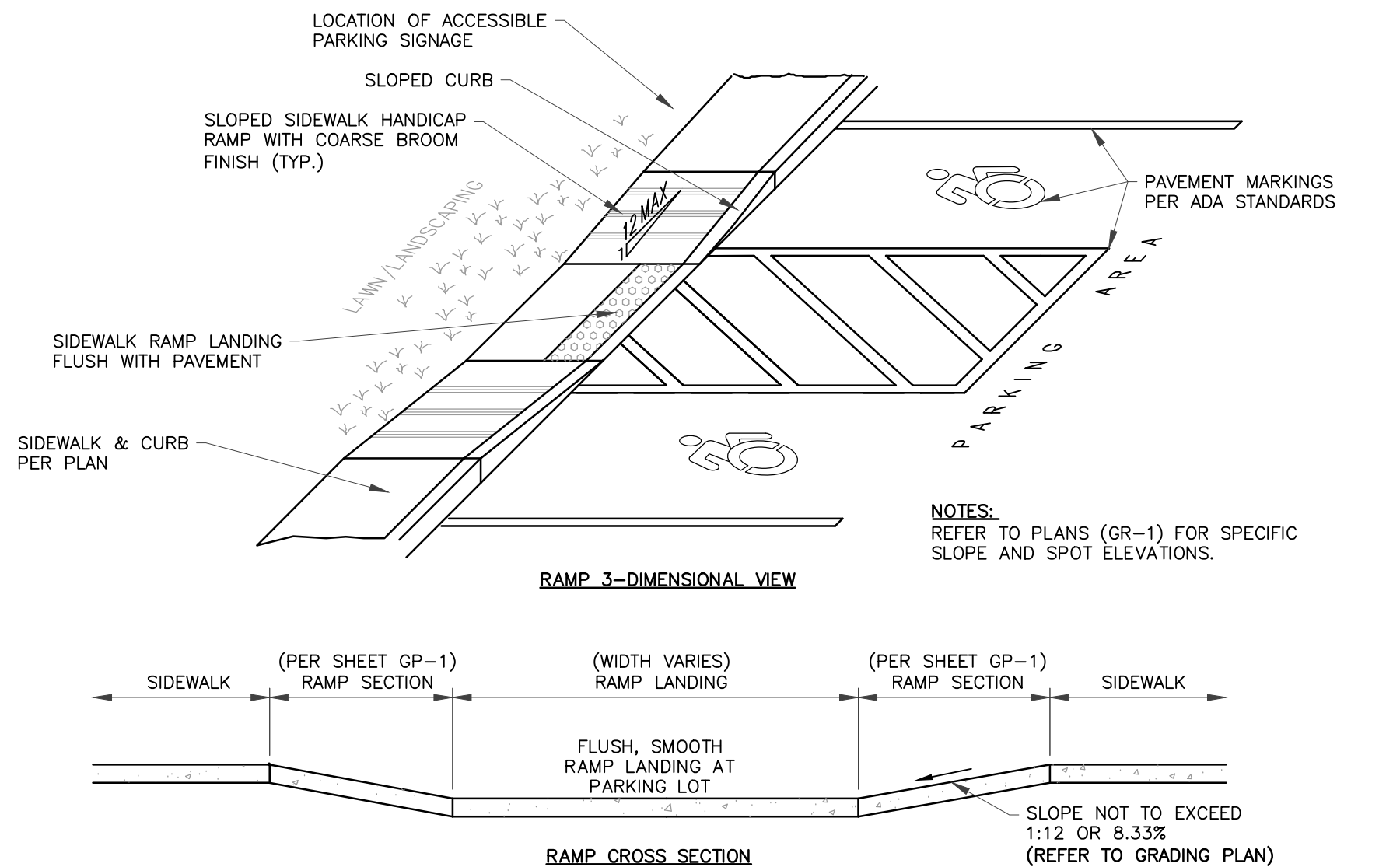
- ACCESSIBLE PARKING SPACES SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTES OF TRAVEL FROM ADJACENT PARKING TO AN ACCESSIBLE BUILDING ENTRANCE.
- ACCESSIBLE PARKING SPACES SHALL BE AT LEAST NINETY-SIX (96) INCHES WIDE. ACCESS AISLES SHALL BE 60 INCHES WIDE. ONE OF SIX ACCESSIBLE SPACES SHOULD PROVIDE A VAN ACCESSIBLE AISLE. THE AISLE WIDTH FOR ACCESSIBLE SPACE IS 11 FEET AND ACCESS AISLE IS FIVE FEET). WHERE PARKING SPACES AND ACCESS AISLES ARE MARKED WITH LINES, THE WIDTH MEASUREMENTS SHALL BE MADE FROM CENTERLINE OF THE MARKINGS. WHERE PARKING SPACES OR ACCESS AISLES ARE NOT ADJACENT TO ANOTHER PARKING SPACE OR ACCESS AISLES, MEASUREMENTS SHALL BE PERMITTED TO INCLUDE THE FULL WIDTH OF THE LINE DEFINING THE PARKING SPACE OR ACCESS AISLE.
- PARKING ACCESS AISLES SHALL BE PART OF AN ACCESSIBLE ROUTE TO THE BUILDING OR FACILITY ENTRANCE AND SHALL COMPLY WITH PROVISIONS FOR ACCESSIBLE ROUTES. MARKED CROSSINGS SHALL BE PROVIDED WHERE THE ACCESSIBLE ROUTE MUST CROSS VEHICULAR TRAFFIC LANES. WHERE POSSIBLE, IT IS PREFERABLE THAT THE ACCESSIBLE ROUTE NOT PASS BEHIND PARKED VEHICLES.
- TWO (2) ACCESSIBLE PARKING SPACES MAY SHARE A COMMON ACCESS AISLE.
- ACCESS AISLES SHALL EXTEND THE FULL LENGTH OF THE PARKING SPACE THEY SERVE.
- ACCESS AISLES SHALL BE MARKED TO DISCOURAGE PARKING IN THEM.
- ACCESS AISLES SHALL NOT OVERLAP THE VEHICULAR WAY. ACCESS AISLES SHALL BE PERMITTED TO BE PLACED ON EITHER SIDE OF THE PARKING SPACE EXCEPT FOR ANGLED VAN PARKING SPACES WHICH SHALL HAVE ACCESS AISLES LOCATED ON THE PASSENGER SIDE OF THE PARKING SPACES.
- FLOOR SURFACES OF PARKING SPACES AND ACCESS AISLES SERVING THEM SHALL BE STABLE, FIRM AND SLIP RESISTANT. ACCESS AISLES SHALL BE AT THE SAME LEVEL AS THE PARKING SPACES THEY SERVE. CHANGES IN LEVEL ARE NOT PERMITTED.
- PARKING SPACES AND ACCESS AISLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 2.0% IN ALL DIRECTIONS.
- PARKED VEHICLE OVERHANGS SHALL NOT REDUCE THE REQUIRED CLEAR WIDTH OF AN ACCESSIBLE ROUTE.
- PARKING SPACES FOR VANS AND ACCESS AISLES AND VEHICULAR ROUTES SERVING THEM SHALL PROVIDE A VERTICAL CLEARANCE OF NINETY-EIGHT (98) INCHES MINIMUM. SIGNS SHALL BE PROVIDED AT ENTRANCES TO PARKING FACILITIES, INFORMING DRIVERS OF CLEARANCES AND THE LOCATION OF VAN ACCESSIBLE PARKING SPACES.
- EACH ACCESSIBLE PARKING SPACE SHALL BE PROVIDED WITH SIGNAGE DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. SIGNS SHALL BE INSTALLED AT A MINIMUM CLEAR HEIGHT OF SIXTY (60) INCHES ABOVE GRADE AND SHALL NOT INTERFERE WITH AN ACCESSIBLE ROUTE FROM AN ACCESSIBLE ROUTE. SIGNS LOCATED WHERE THEY MAY BE HIT BY VEHICLES BEING PARKED SHALL BE INSTALLED WITH BOLLARD PROTECTION.
- ACCESSIBLE PARKING SPACE, ACCESS AISLE STRIPING, AND INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE PAINTED BLUE OR ANOTHER COLOR THAT CAN BE DISTINGUISHED FROM PAVEMENT.
- WHERE PARKING IS PROVIDED WITHIN OR BENEATH A BUILDING, ACCESSIBLE PARKING SHALL ALSO BE PROVIDED WITHIN OR BENEATH THE BUILDING.



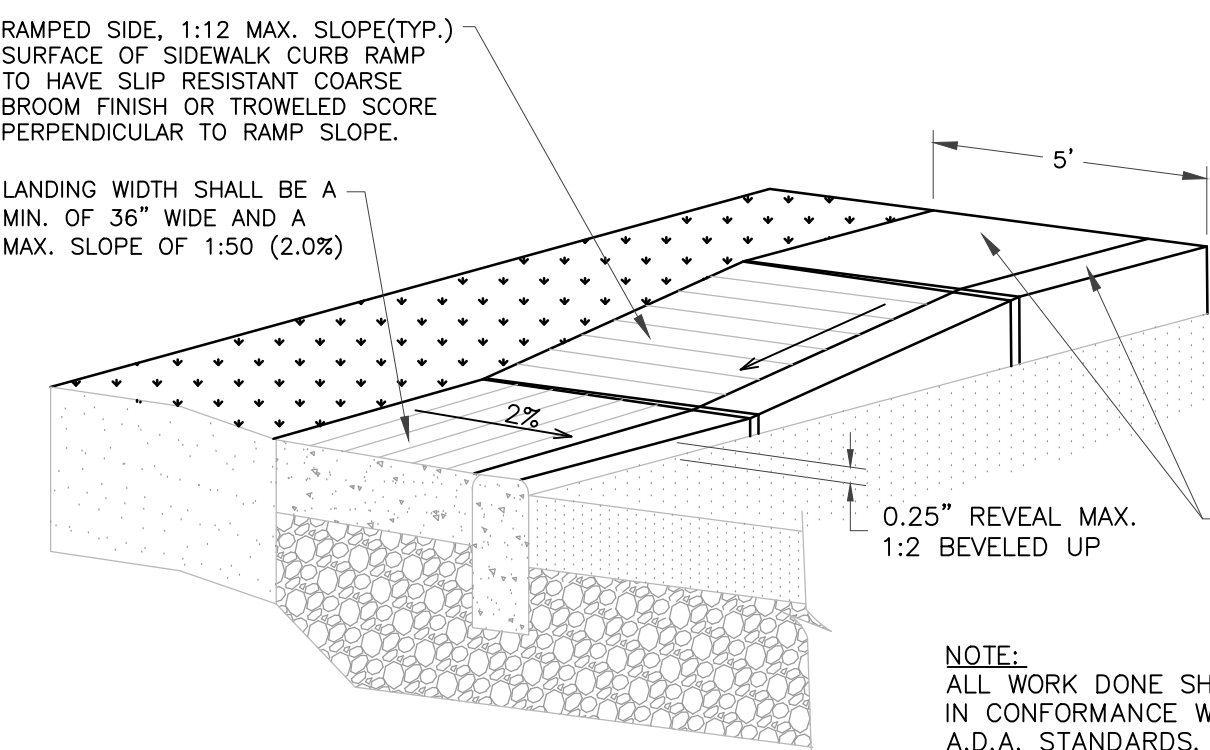
1 CONCRETE SIDEWALK SCALE: NTS

2 CONCRETE WALK / PAVEMENT JOINING AT BUILDING SCALE: NTS

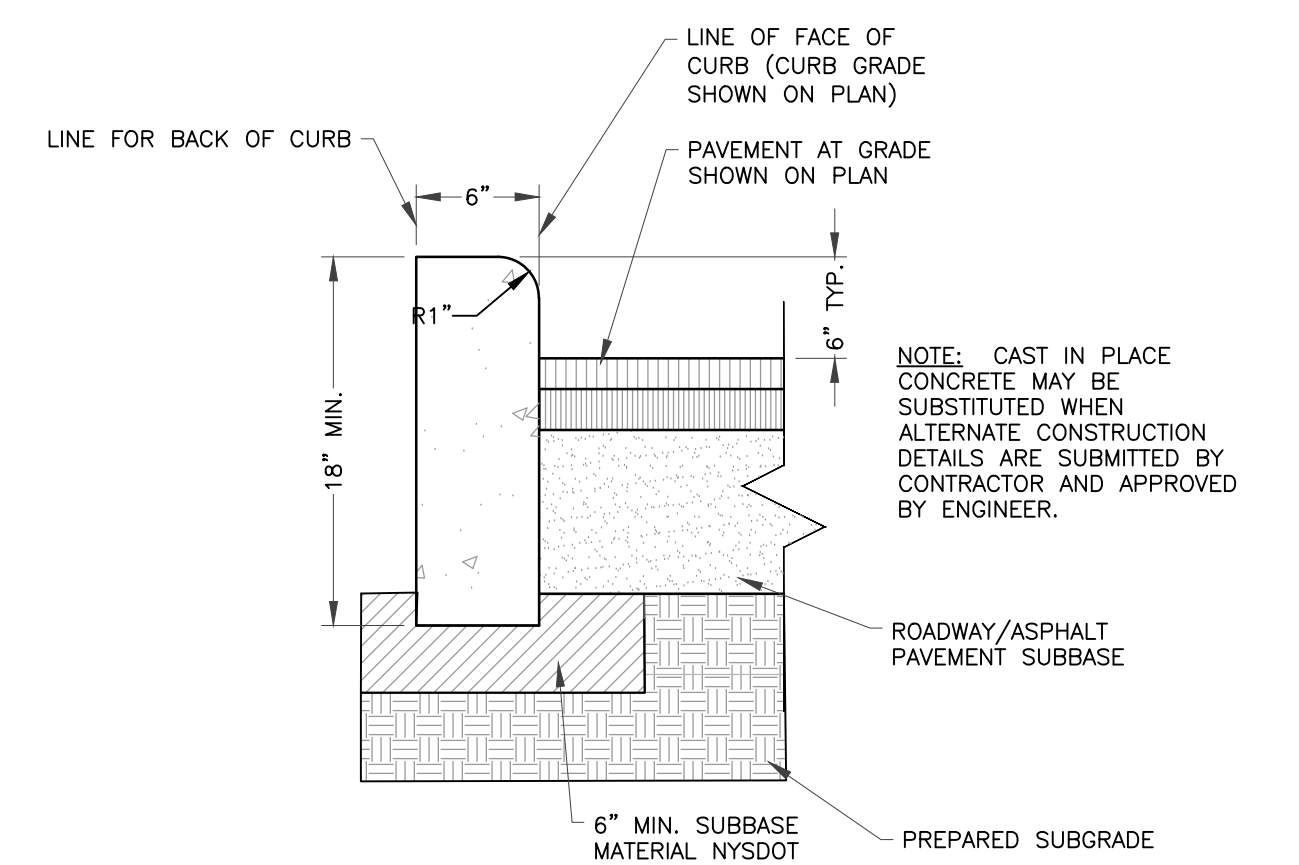
3 CONCRETE WALK WITH INTEGRAL CURB SCALE: NTS



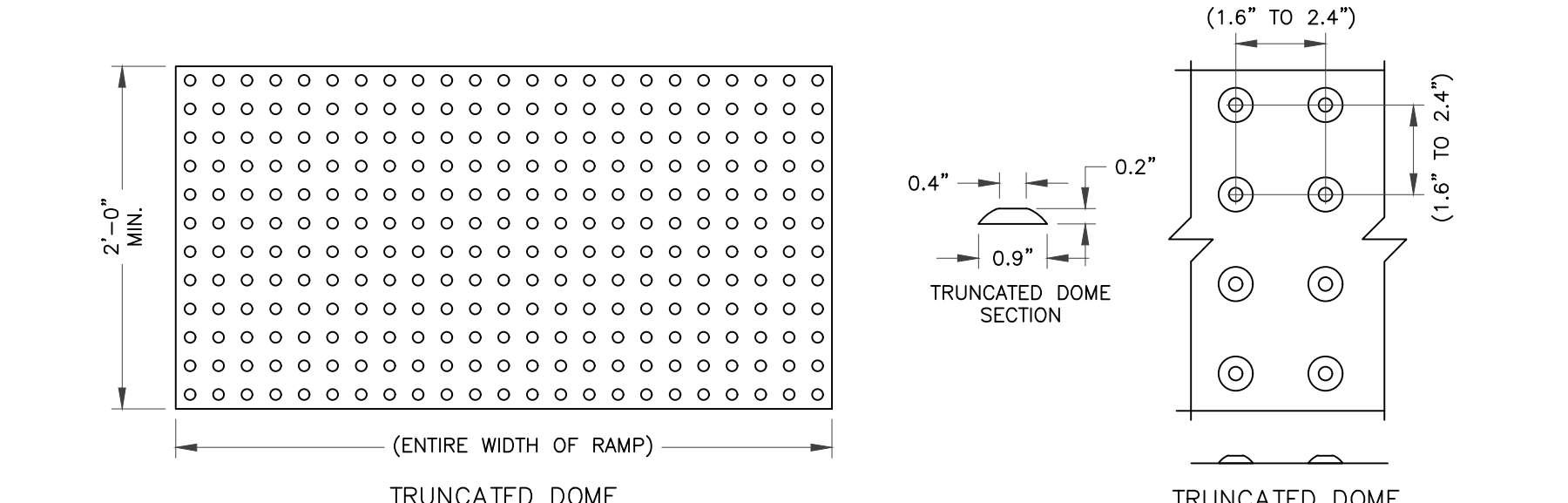
4 SIDEWALK RAMP SCALE: NTS



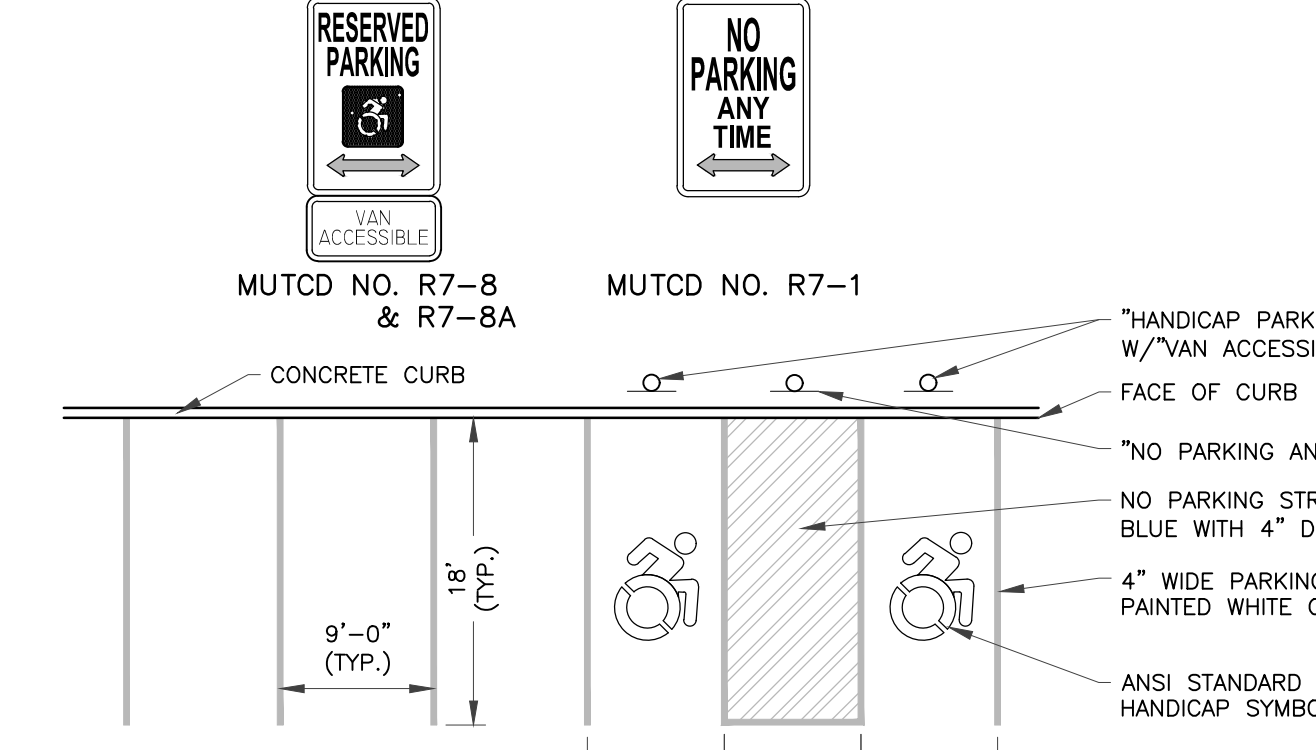
5 TYPICAL CURB RAMP SECTION SCALE: NTS



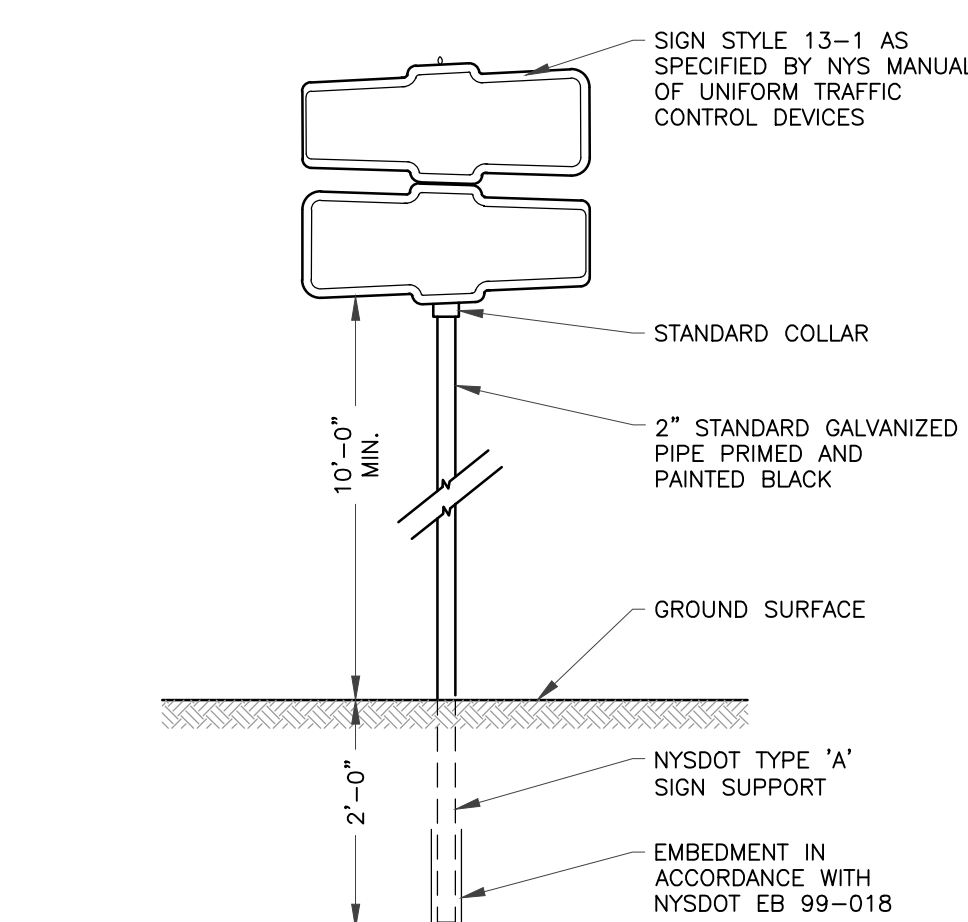
6 CONCRETE CURB DETAIL SCALE: NTS



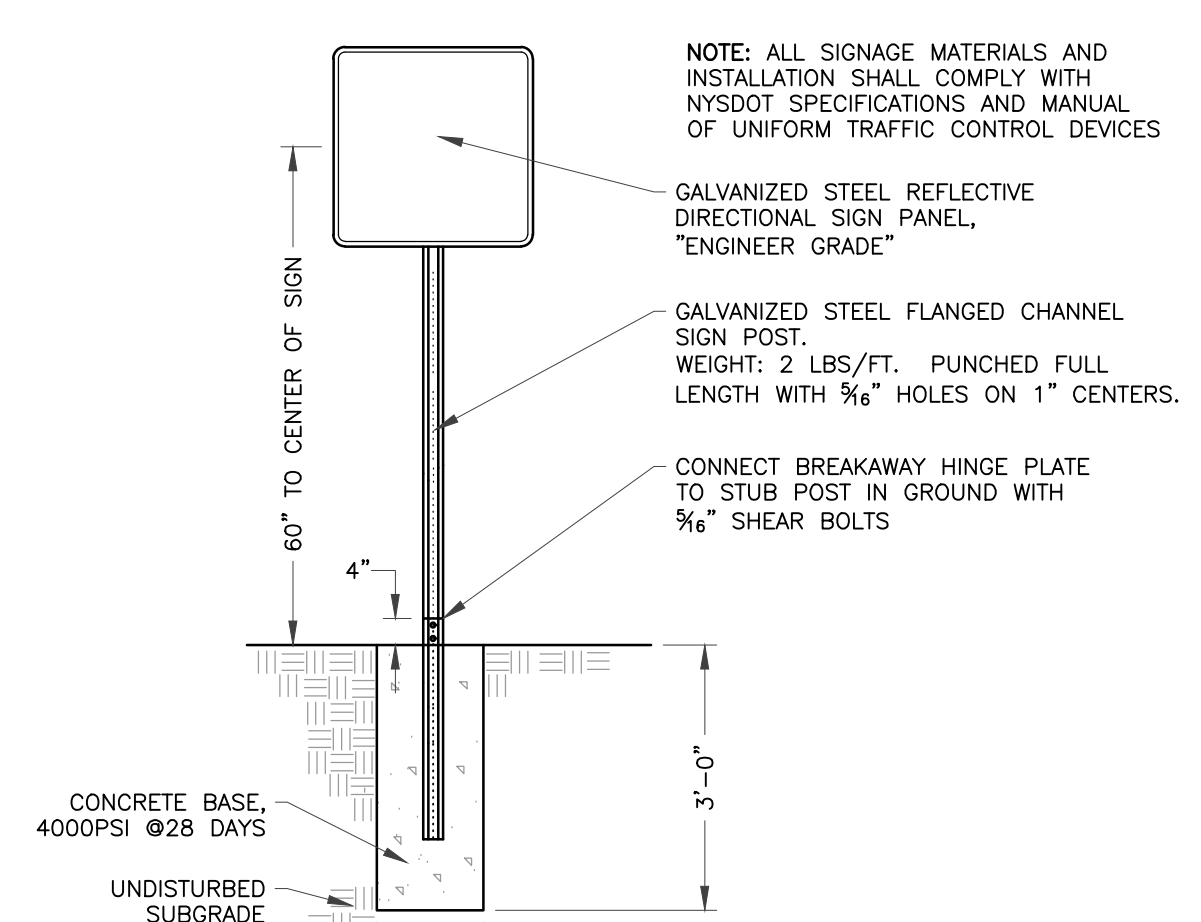
7 TRUNCATED DOMES SCALE: NTS



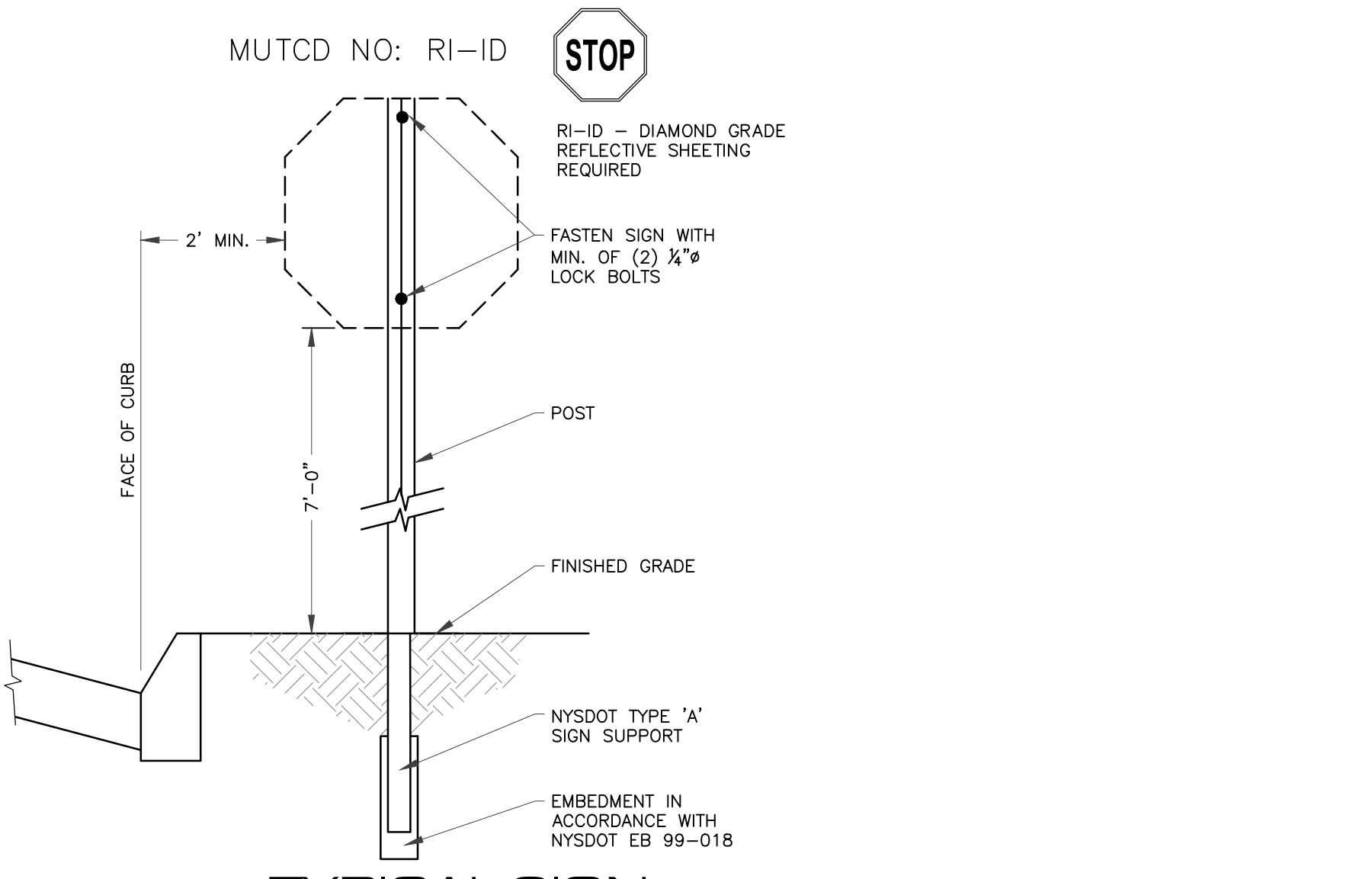
8 TYPICAL PARKING SPACE LAYOUT SCALE: NTS



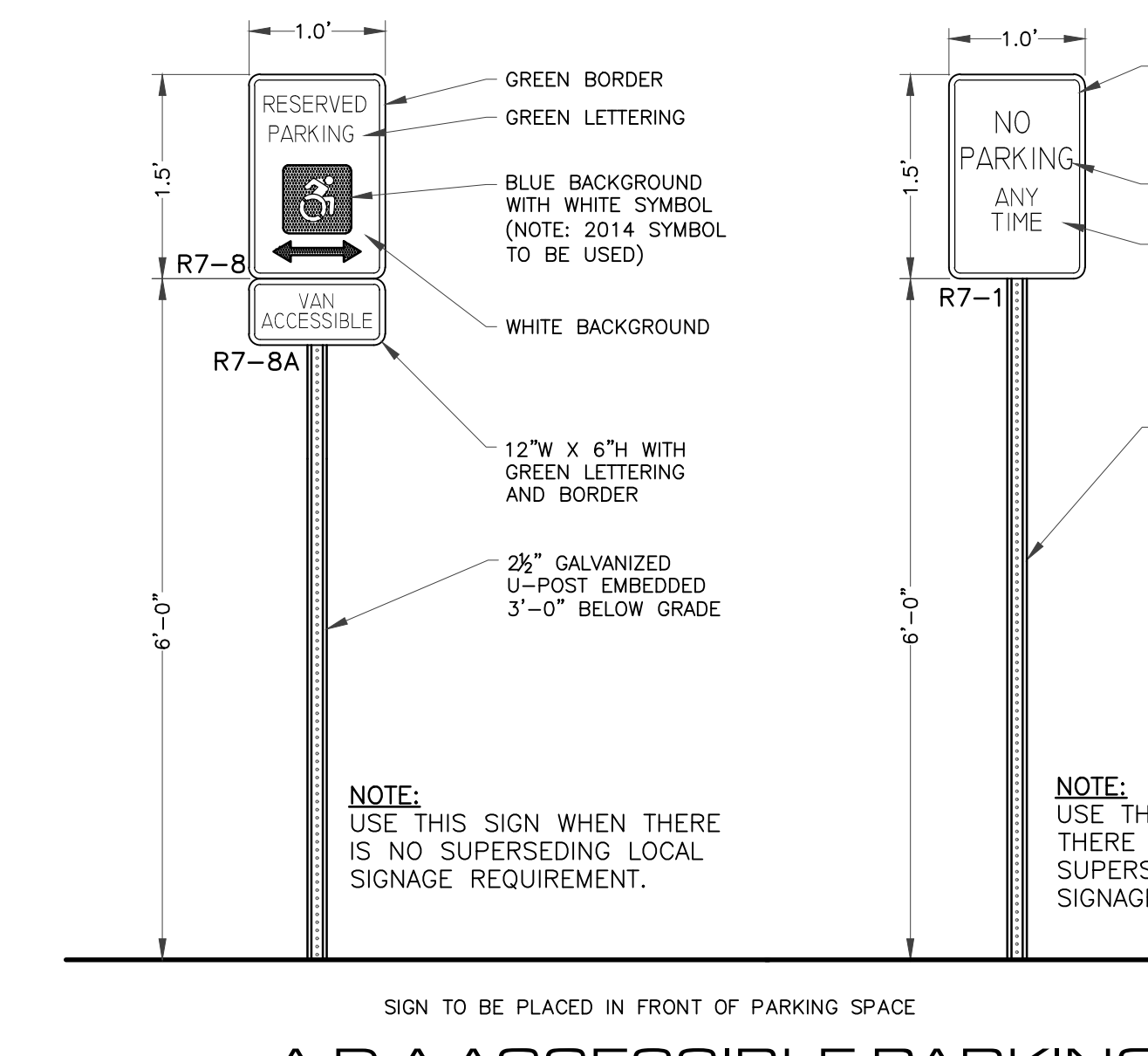
9 STREET SIGN SCALE: NTS



10 DIRECTIONAL SIGNAGE SCALE: NTS



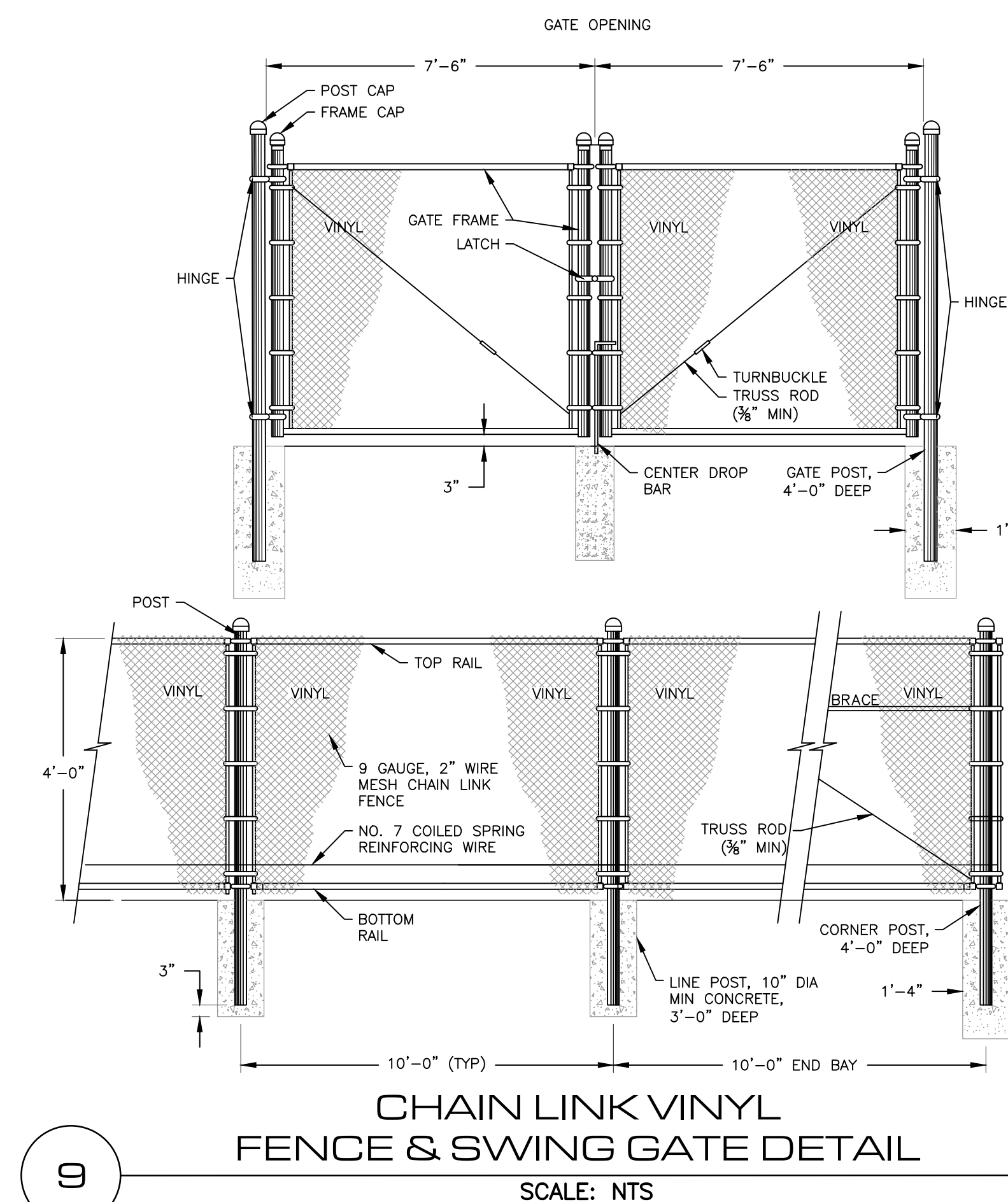
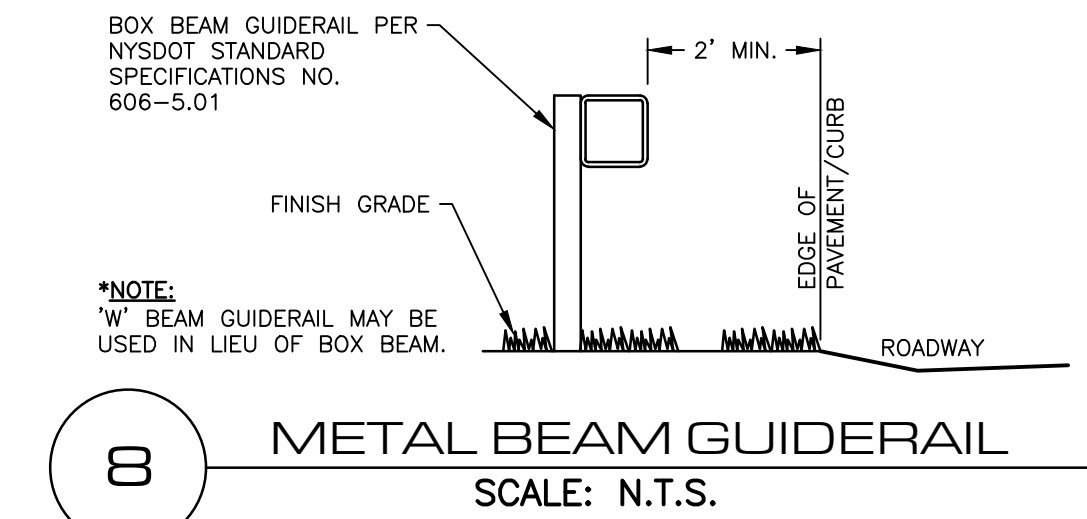
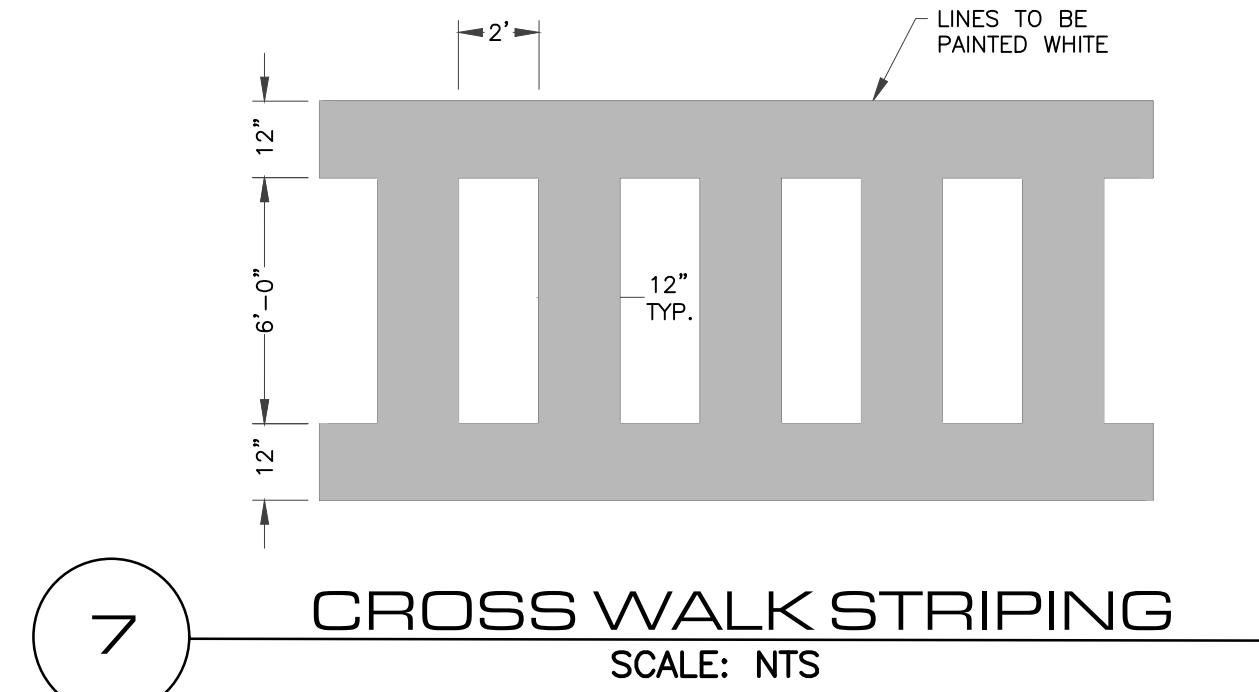
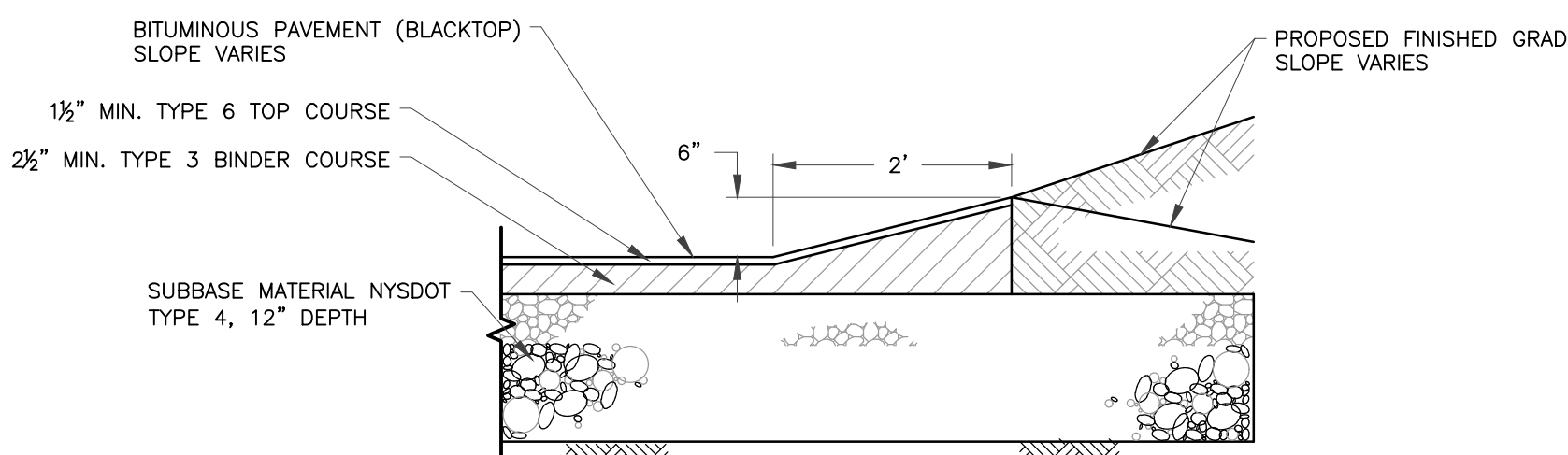
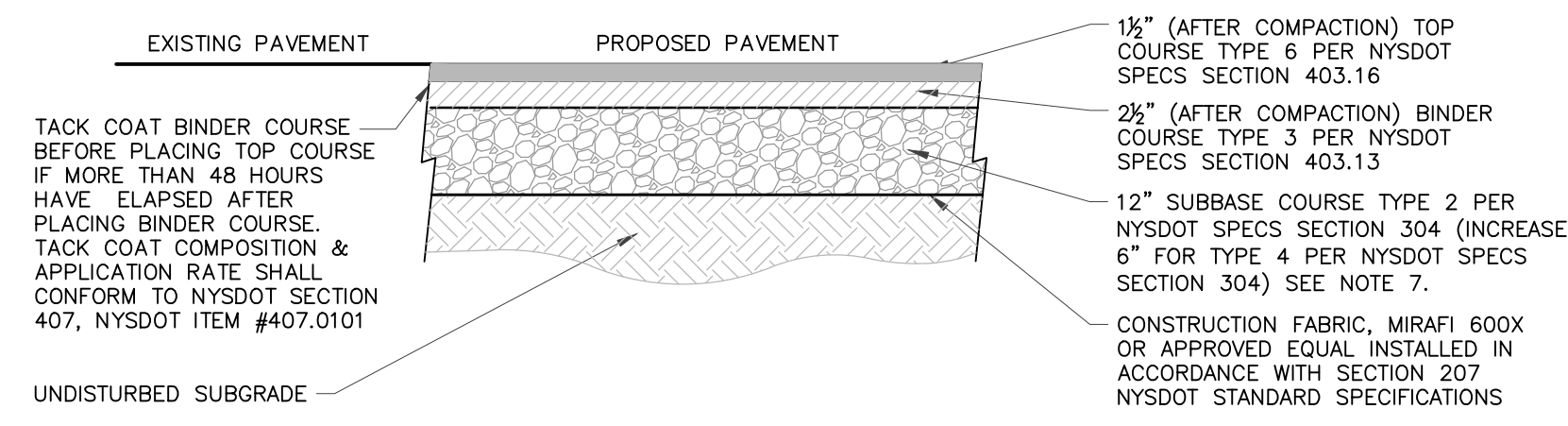
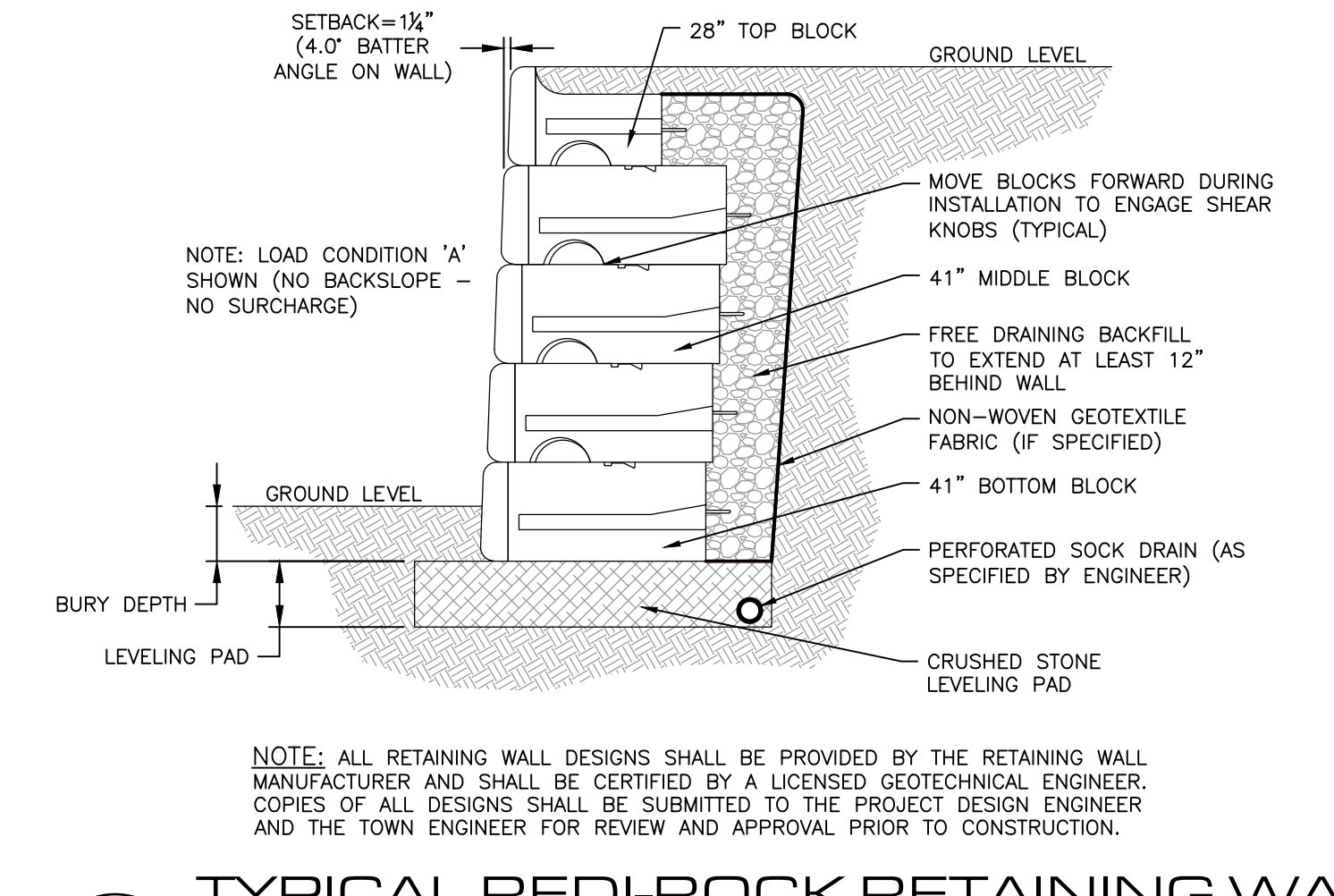
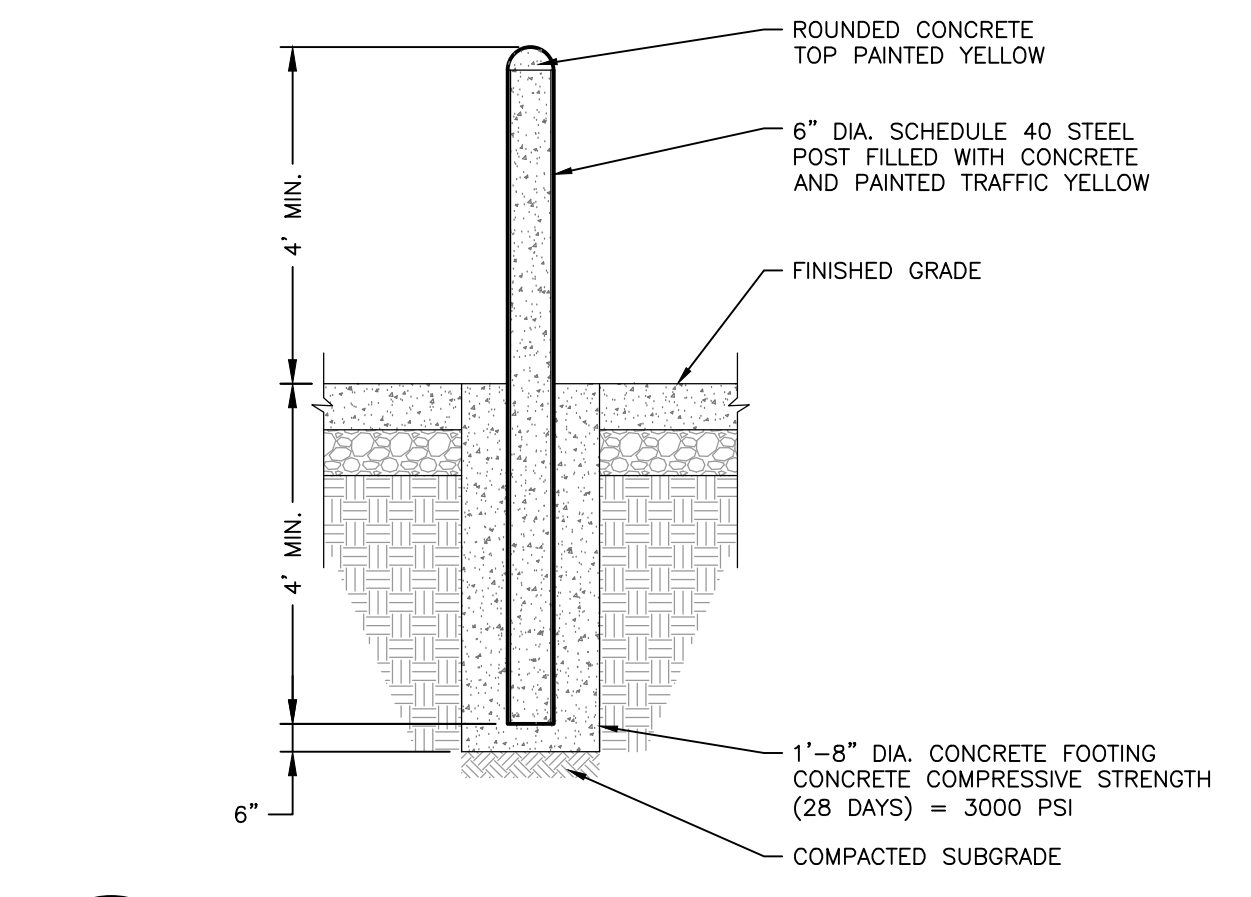
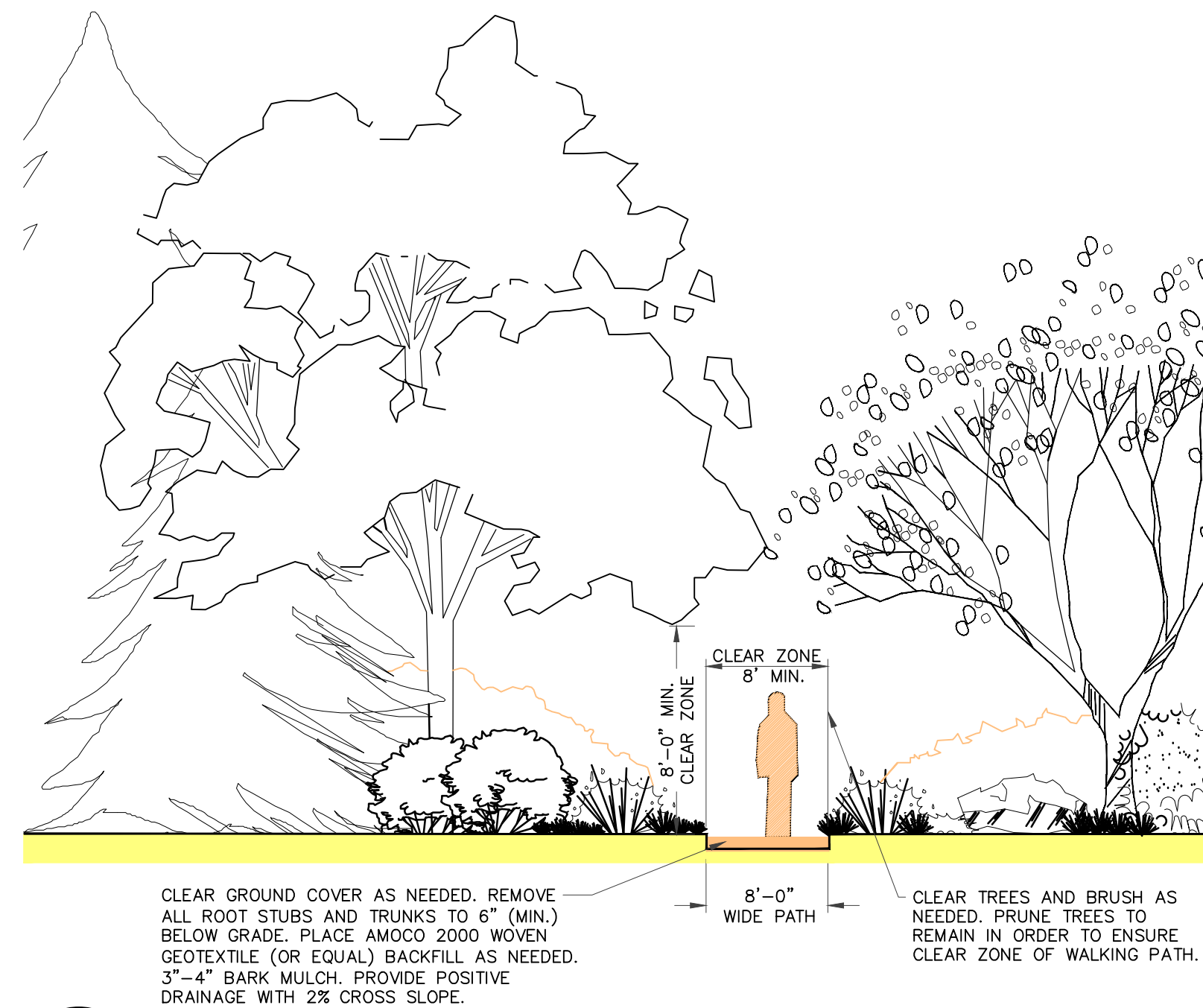
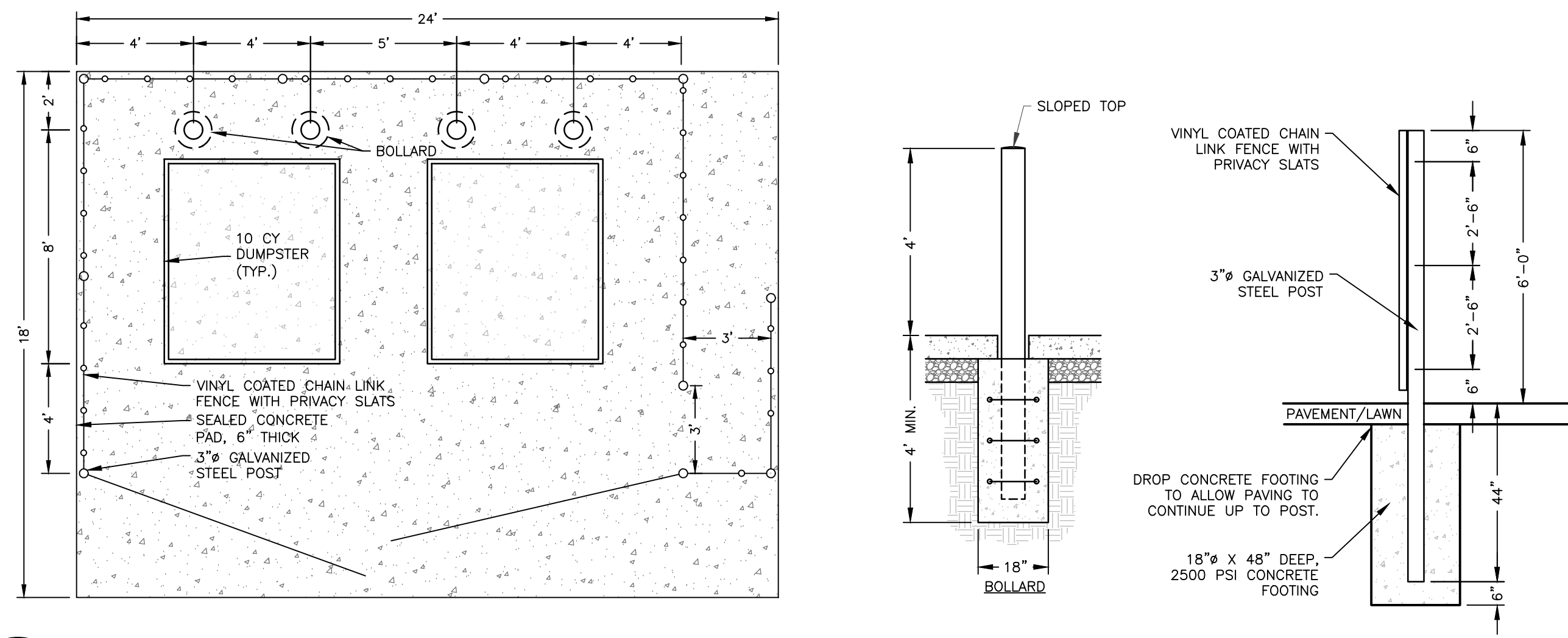
11 TYPICAL SIGN MOUNTING DETAIL SCALE: NTS



12 A.D.A ACCESSIBLE PARKING AND ACCESS AISLE SIGNAGE SCALE: NTS

MISCELLANEOUS DETAILS (1 OF 2)

UNAUTHORIZED REPRODUCTION OR ADDITION TO THIS DOCUMENT WITHOUT THE WRITTEN CONSENT OF LANSING ENGINEERING, P.C.
 ESSEX BOCCES FACILITY
 PLANK ROAD, TOWN OF MORNIAH, ESSEX COUNTY, NEW YORK
 REVISION RECORD/DESCRIPTION
 DATE
 PRELIMINARY / NOT FOR CONSTRUCTION
 LANSING ENGINEERING
 500 WEST 125TH STREET
 GARDEN CITY, NY 11530
 (516) 833-8333



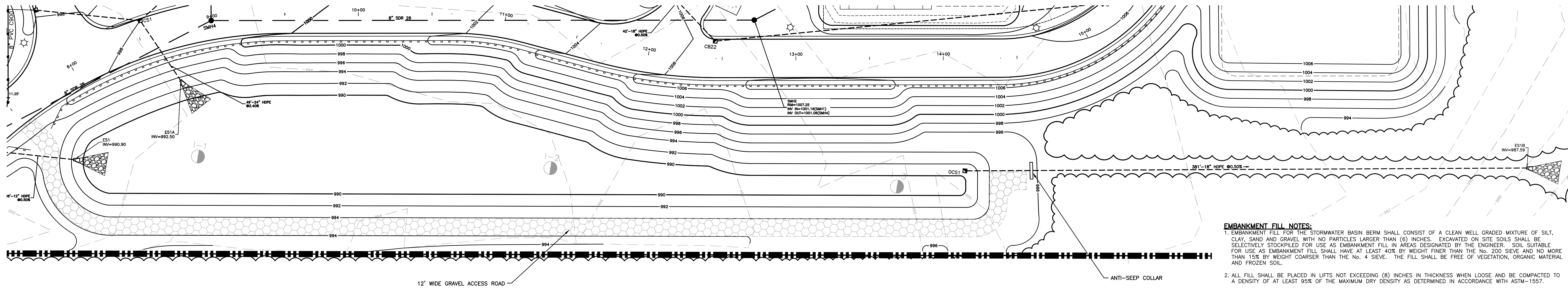
NOTES:
1. THICKNESS OF ALL COURSES SHOWN ON THE DRAWINGS ARE COMPACTED THICKNESSES.
2. ALL MATERIALS SHALL CONFORM TO NYS DOT, SECTION 400 AND SECTION 300.
3. CONSTRUCT ASPHALT PAVEMENT IN ACCORDANCE WITH NYS DOT SECTION 401-3.
4. IF SUBGRADE IS UNSUITABLE FOR SUBBASE INSTALLATION AT THE TIME OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER INDICATING PROPOSED CORRECTIVE MEASURES (E.G., FILTER FABRIC, UNDERDRAINS, ADDITIONAL GRAVEL, ETC.).
5. BITUMINOUS TACK COAT SHALL BE APPLIED BETWEEN PAVEMENT COURSES IF MORE THAN 48 HOURS HAS ELAPSED BETWEEN PLACEMENT OF COURSES. TACK COAT WHEN USED SHALL BE APPLIED PER NYS DOT SECTION 407-2 AT APPLICATION RATE OF 0.05-0.10 GAL/YD².
6. ALL TESTING FOR COMPACTION SHALL BE AS ORDERED BY THE ENGINEER. THE CONTRACTOR SHALL PAY FOR ALL TESTING.
7. ALL FILL TO CONSTRUCT ROADWAY TO SUBGRADE ELEVATIONS SHALL BE COMPACTED TO 95% PROCTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST AND COORDINATION OF THE TESTING AND DOCUMENTATION OF THE FILL MATERIAL AND THE COMPACTION OF THE FILL MATERIAL.

UNAUTHORIZED REPRODUCTION OR ADDITION TO THIS DOCUMENT IS PROHIBITED. THE ASSOCIATION OF THE ENGINEERING PROFESSIONS OF THE STATE OF NEW YORK (E.P.C.) LANSING ENGINEERING, P.C.

ESSEX BOCES FACILITY
PLANK ROAD, TOWN OF MORAHA, ESSEX COUNTY, NEW YORK
REVISIONS RECORD/DESCRIPTION
DATE
PRELIMINARY / NOT FOR CONSTRUCTION

LANSING ENGINEERING
REGISTERED PROFESSIONAL ENGINEERS
STATE OF NEW YORK
E-1518 BBS-2024

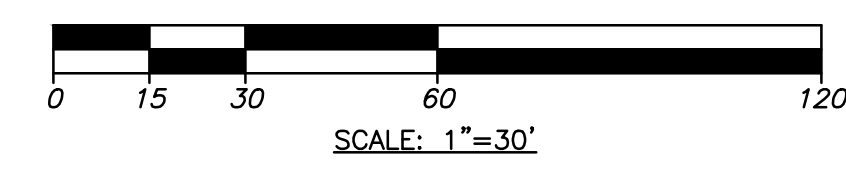
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PROJ. NO: 1126.00
SCALE: AS SHOWN
DATE: 02/25/2026
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SHEET 17 OF 20



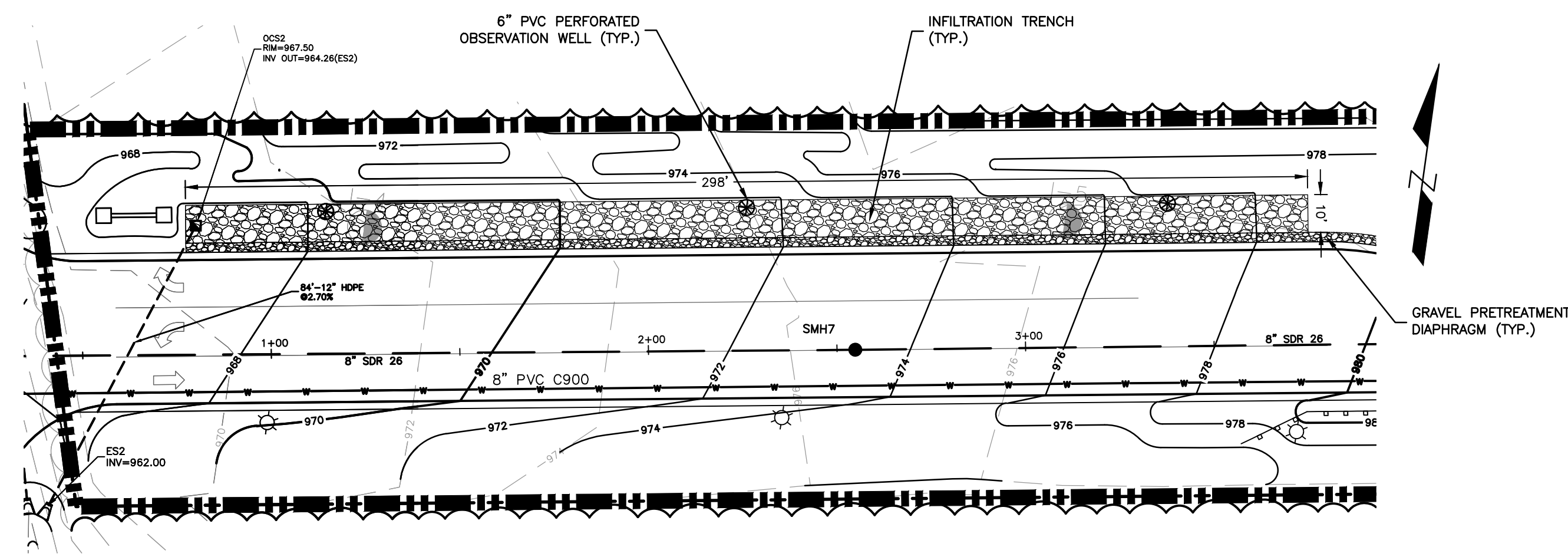
EMBANKMENT FILL NOTES:

- EMBANKMENT FILL FOR THE STORMWATER BASIN BERM SHALL CONSIST OF A CLEAN WELL GRADED MIXTURE OF SILT, CLAY, SAND AND GRAVEL WITH NO PARTICLES LARGER THAN (6) INCHES. EXCAVATED ON SITE SOILS SHALL BE SELECTIVELY STOCKPILED FOR USE AS EMBANKMENT FILL IN AREAS DESIGNATED BY THE ENGINEER. SOIL SUITABLE FOR USE AS EMBANKMENT FILL SHALL HAVE AT LEAST 40% BY WEIGHT FINER THAN THE NO. 200 SIEVE AND NO MORE THAN 15% BY WEIGHT COARSER THAN THE NO. 4 SIEVE. THE FILL SHALL BE FREE OF VEGETATION, ORGANIC MATERIAL AND FROZEN SOIL.
- ALL FILL SHALL BE PLACED IN LIFTS NOT EXCEEDING (8) INCHES IN THICKNESS WHEN LOOSE AND BE COMPACTED TO A DENSITY OF AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM-1557.
- THE STABILIZED ACCESS ROAD SHALL CONSIST OF (12) INCHES OF COMPACTED NYS DOT ITEM NO. 304.12.

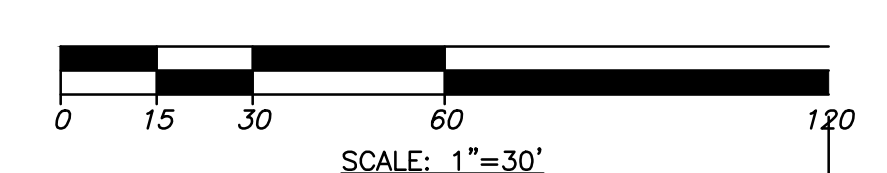
INFILTRATION BASIN #1



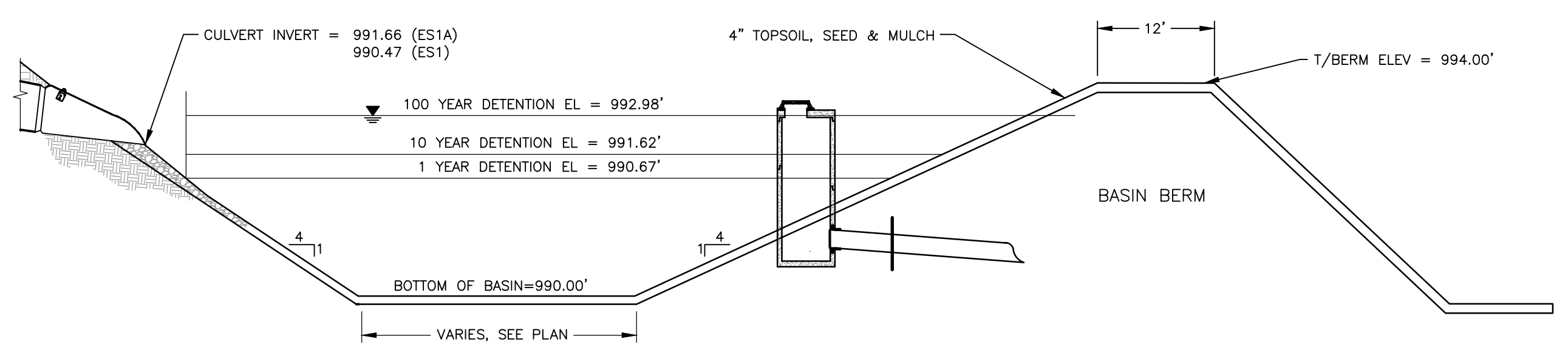
1



INFILTRATION TRENCH



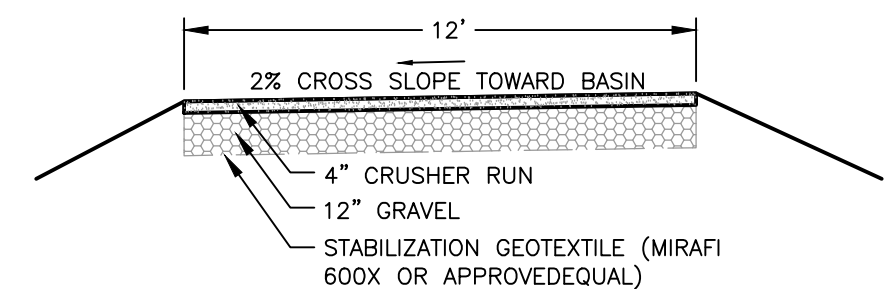
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INFILTRATION BASIN #1 CROSS SECTION

SCALE: NTS

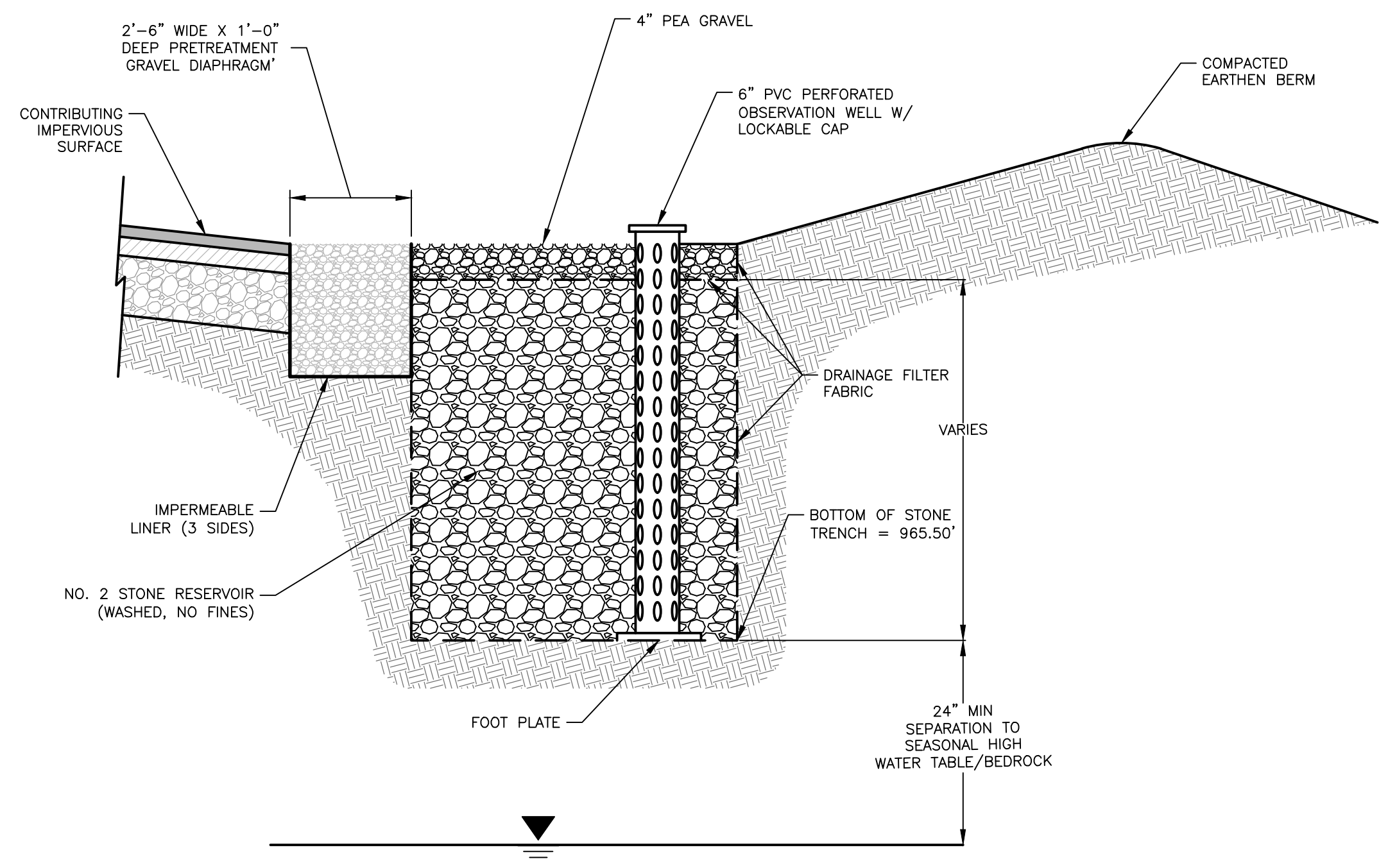
3



PROPOSED SWMB GRAVEL MAINTENANCE ACCESS DRIVE SECTION

SCALE: NTS

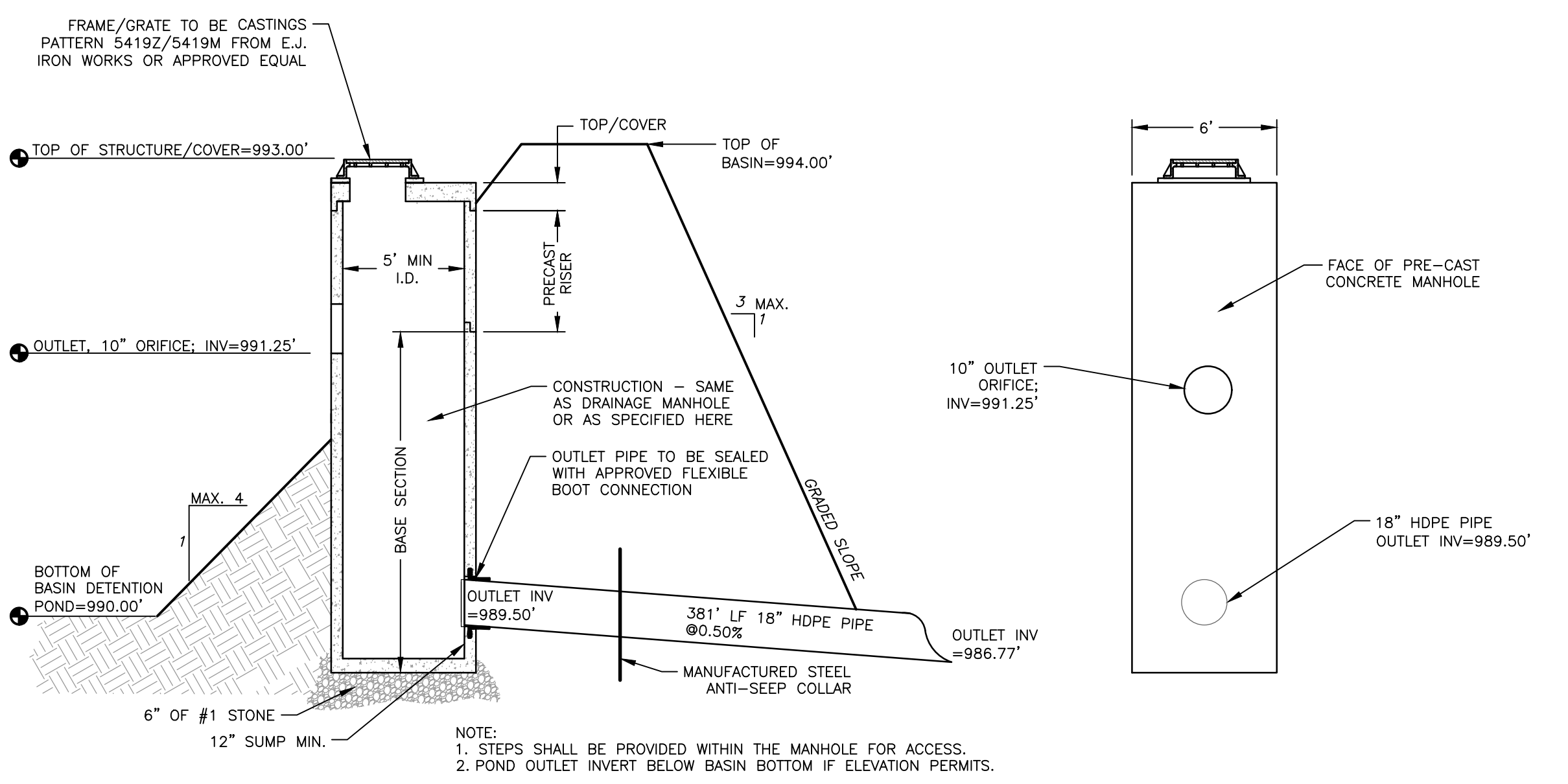
4



INFILTRATION TRENCH CROSS SECTION

SCALE: NTS

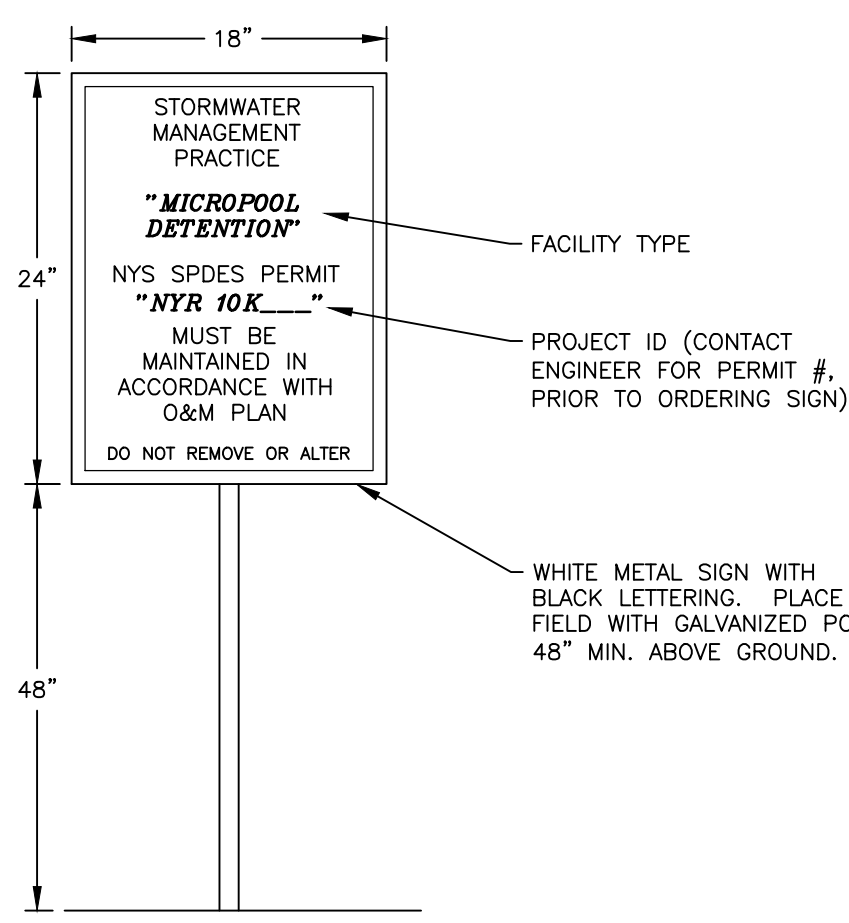
5



INFILTRATION BASIN #1 OUTLET STRUCTURE (OCS 1)

SCALE: NTS

6



STORMWATER MANAGEMENT FACILITY NOTIFICATION SIGN

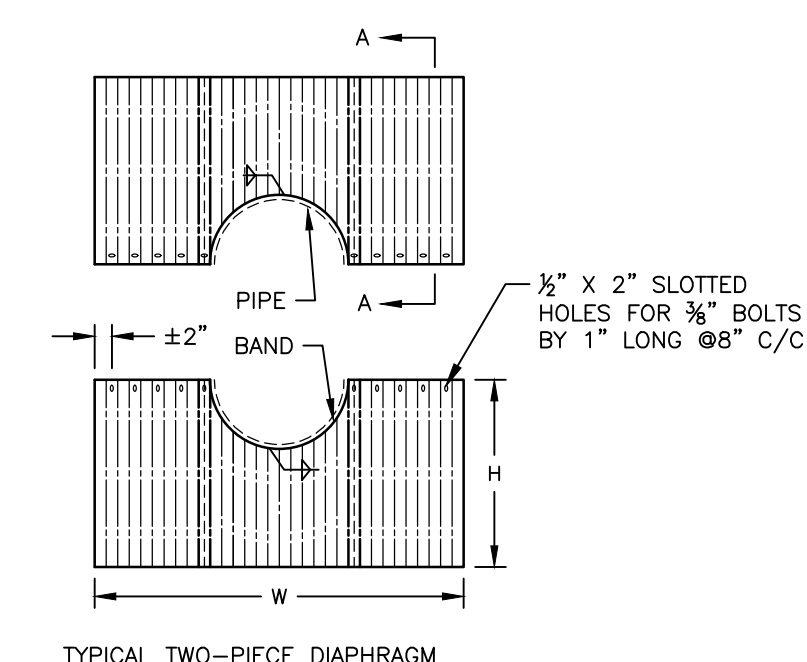
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7

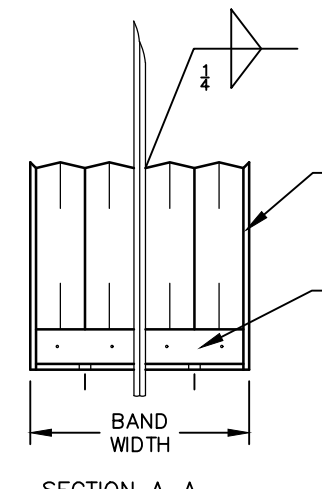
NOTE:
1. SIGNS TO BE PLACED AT ALL STORMWATER MANAGEMENT PRACTICES IN ACCORDANCE WITH SECTION 3.5 OF THE NYS STORMWATER DESIGN MANUAL.
2. "FACILITY TYPE" SHALL BE APPROPRIATE FOR THE ASSOCIATED STORMWATER MANAGEMENT PRACTICE: SEE TABLE 1.
3. USE 10"x12" SIGN FOR STORM PRACTICES SMALLER THAN 400 SF.

TABLE 1

EXAMPLE FACILITY TYPES
MICROPOOL DETENTION
INFILTRATION BASIN
BIORETENTION
RAIN GARDEN
VEGETATED SWALE
INFILTRATION TRENCH
POROUS PAVEMENT
VEGETATED BUFFER
POCKET POND



TYPICAL TWO-PIECE DIAPHRAGM



MANUFACTURED STEEL ANTI-SEEP COLLAR

SCALE: NTS

8

TYPICAL DIMENSIONS OF STEEL DIAPHRAGMS

PIPE DIA. (N.)	GAGE OF COLLAR (N.)	BAND WIDTH (N.)	DIMENSIONS OF DIAPHRAGM	
			W (N.)	H (N.)
12	16	7"	64	32½
15	16	7"	64	34
18	16	7"	64	35½
21	16	7"	72	37
24	14	7"	72	38½
30	14	7"	82½	41½
36	12	7"	88	44½
42	12	10½"	93½	47½
48	12	10½"	96	50½
54	12	10½"	106½	53½
60	10	10½"	112	56½
66	10	10½"	117½	59½
72	10	10½"	120	62½
84	8	10½"	136	68½

NOTES:
1. COLLAR SIZE BASED ON PLACEMENT @ PIPE JOINTS (20' C/C).
2. BAND IS CORRUGATED TO MATCH RE-ROLLED END OF PIPE BEING JOINED.
3. EACH DIAPHRAGM IS DELIVERED WITH (4) ½"x6" BOLTS AND (8) ¾"x1" BOLTS

BASIN DETAILS

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ESSEX BOCES FACILITY
 PLANK ROAD, TOWN OF INDIAN, ESSEX COUNTY, NEW YORK

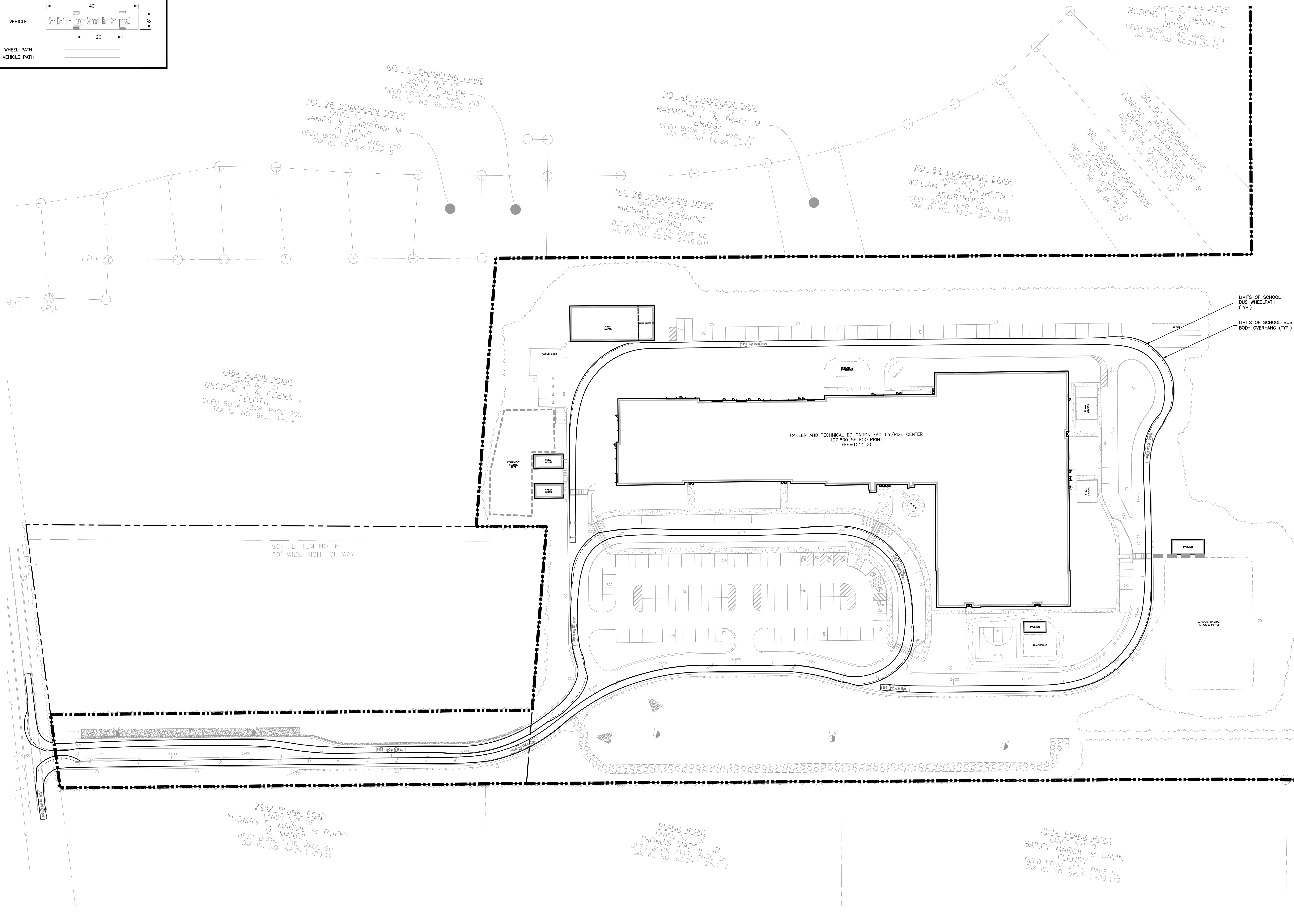
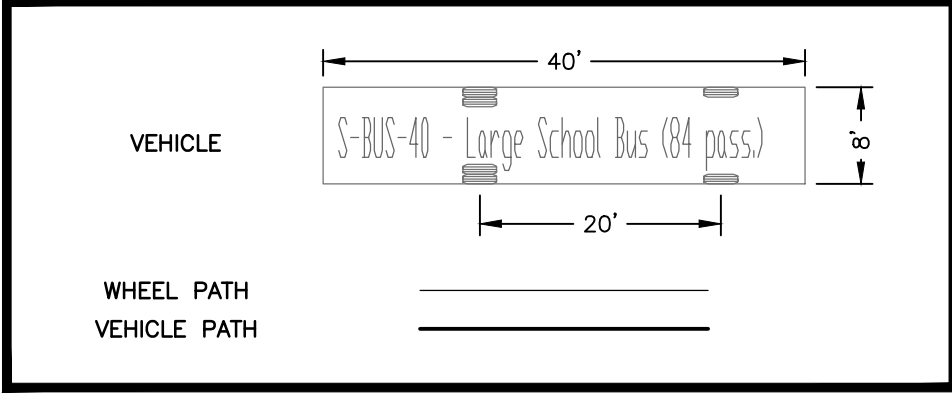
REVISION RECORD/DESCRIPTION
 DATE

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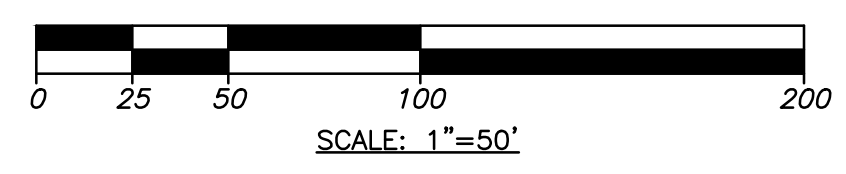
LANSING ENGINEERING
 585 WEST VALLEY ROAD
 VALLEY STREAM, NY 11580
 (516) 833-8800

CIVIL / TRANSPORTATION / ENVIRONMENTAL / LAND SURVEYING

LEGEND



SCHOOL BUS ACCESS PLAN



SCHOOL BUS ACCESS PLAN

PROJ. NO: 1126.00
 SCALE: AS SHOWN
 DATE: 02/25/2026
SBA-1
 SHEET 20 OF 20

ESSEX BOCES FACILITY
 PLANK ROAD, TOWN OF ANDOVER, ESSEX COUNTY, NEW YORK
PRELIMINARY / NOT FOR CONSTRUCTION
LANSING ENGINEERING
 100 WEST 10TH STREET
 SUITE 200
 ANDOVER, NY 14003
 (607) 833-8888
 CIVIL, TRANSPORTATION, ENVIRONMENTAL, LAND SURVEYING
 UNAUTHORIZED OR ADDITIONAL TO THIS LOCATION OF THE BUS STOP LANSING ENGINEERING, P.C.
 DATE: _____
 REVISIONS: RECORD/DESCRIPTION
 DATE: _____

