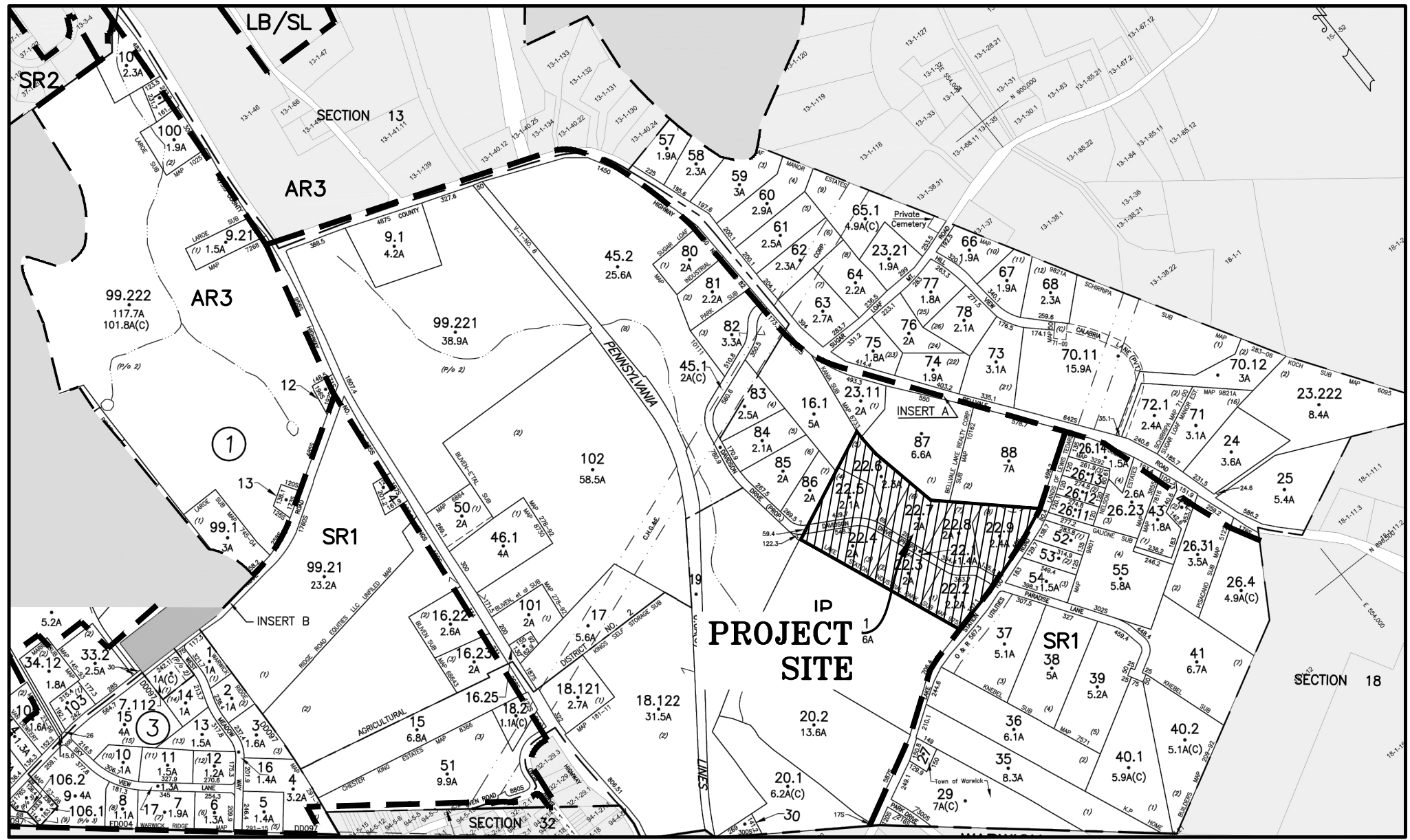


SITE PLAN & LOT LINE COMBINATION FOR
DAVIDSON DRIVE HOLDINGS, LLC
LAKE STATION ROAD
TOWN OF CHESTER, ORANGE COUNTY, NY.



LOCATION MAP
SCALE: 1"=400'
SOURCE: TAX MAPS

TAX MAP NUMBER

SECTION: 17
BLOCK: 1
LOT: 22.1, 22.2, 22.3, 22.4,
22.5, 22.6, 22.7, 22.8

DEED REFERENCE

LIBER: 14568
PAGE: 351

TOTAL TRACT AREA

699,971± S.F.
= 16.07± ACRES

OWNER & APPLICANT

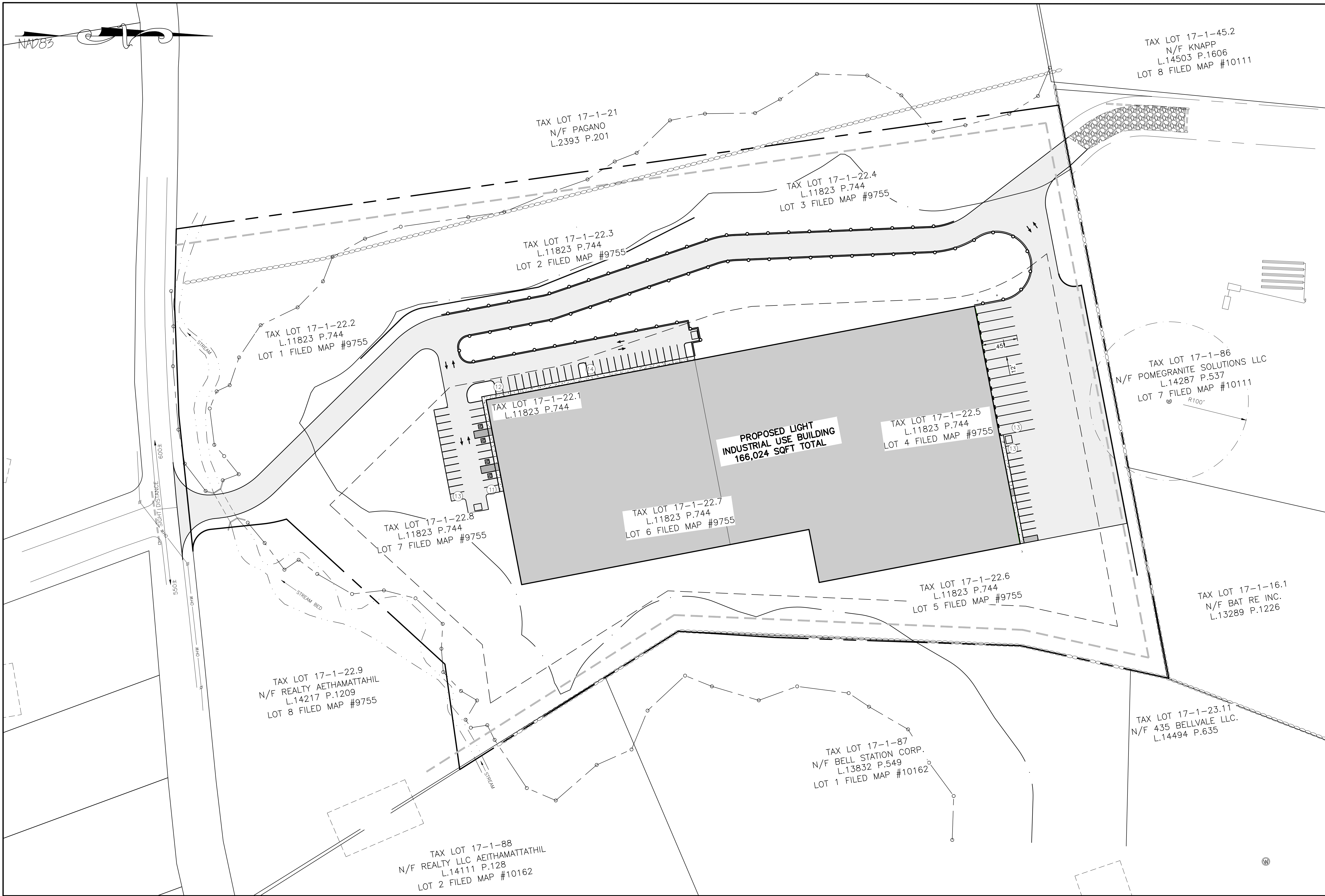
DAVIDSON DRIVE HOLDINGS, LLC
99 FOREST ROAD UNIT 103
MONROE, NY 10950

DRAWING LIST

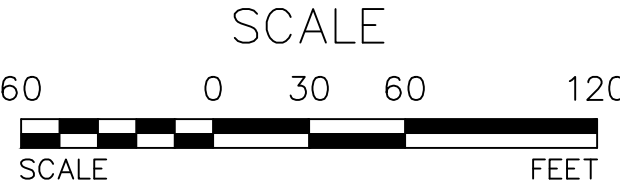
SHEET #	SHEET TITLE	ORIGINAL DATE/ LAST REVISED DATE
01 OF 20	TITLE SHEET	2-17-21/12-2-21
02 OF 20	EXISTING CONDITIONS MAP	2-17-21/12-2-21
03 OF 20	SLOPE ANALYSIS	2-17-21/12-2-21
04 OF 20	SITE PLAN	2-17-21/12-2-21
05 OF 20	GRADING & UTILITY PLAN	2-17-21/12-2-21
06 OF 20	DRIVEWAY PROFILES	2-17-21/12-2-21
07 OF 20	SECTION A-A	2-17-21/12-2-21
08 OF 20	DRAINAGE PROFILES 1	2-17-21/12-2-21
09 OF 20	DRAINAGE PROFILES 2	2-17-21/12-2-21
10 OF 20	EROSION AND SEDIMENT CONTROL PLAN	2-17-21/12-2-21
11 OF 20	EROSION AND SEDIMENT CONTROL DETAILS	2-17-21/12-2-21
12 OF 20	LIGHTING PLAN	2-17-21/12-2-21
13 OF 20	LANDSCAPING PLAN	2-17-21/12-2-21
14 OF 20	LANDSCAPING DETAILS	2-17-21/12-2-21
15 OF 20	TRUCK TURNING DIAGRAM	2-17-21/12-2-21
16 OF 20	TRUCK TURNING DIAGRAM - INTERSECTION 1	2-17-21/12-2-21
17 OF 20	TRUCK TURNING DIAGRAM - INTERSECTION 2	2-17-21/12-2-21
18 OF 20	SDS DETAILS	2-17-21/12-2-21
19 OF 20	CONSTRUCTION DETAILS	2-17-21/12-2-21
20 OF 20	STORMWATER CONSTRUCTION DETAILS	2-17-21/12-2-21

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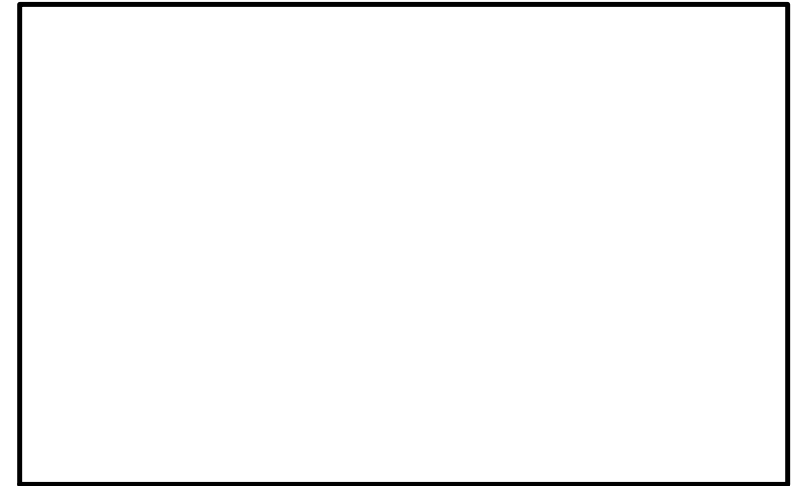
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TITLE SHEET
SCALE: 1"=60'



TOWN OF CHESTER PLANNING BOARD APPROVAL



OWNER'S CONSENT NOTE:

THE UNDERSIGNED OWNERS OF THE PROPERTY HEREON STATE THAT THEY ARE FAMILIAR WITH THIS PLAN, ITS CONTENTS AND ITS LEGENDS AND HEREBY CONSENT TO ALL SAID TERMS AND CONDITIONS AS STATED HEREON AND TO THE FILING OF THIS PLAN IN THE OFFICE OF THE CLERK OF THE COUNTY OF ORANGE, IF SO REQUIRED.

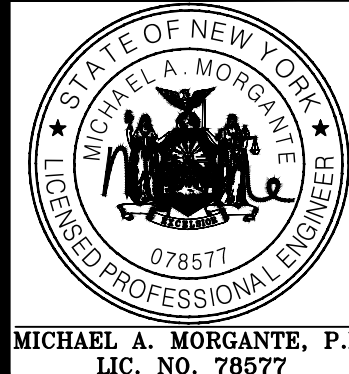
SIGNATURE OF OWNER(S) DATE

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REVISION	BY	DATE	DESCRIPTION
4.	MM	12/2/21	PER PB MTG & AF COMMENT LETTER
3.	MM	9/16/21	PREPARATION OF PRELIMINARY PLANS
2.	MM	5/19/21	REVISION PER PB MTG. & COMMENT LETTERS
1.	MM	3/23/21	ROAD LAYOUT REVISION PER PB MTG.

THIS SHEET IS NOT VALID WITHOUT ALL OF THE SHEETS THAT COMPRISE THE SET

ARDEN CONSULTING ENGINEERS, PLLC
P.O. BOX 340 MONROE, N.Y.
T: 845-782-8114 E: MAM@ARDENCONSULTING.NET



SITE PLAN & LOT LINE COMBINATION FOR
DAVIDSON DRIVE HOLDINGS, LLC
LAKE STATION ROAD
TOWN OF CHESTER, COUNTY OF ORANGE, NY

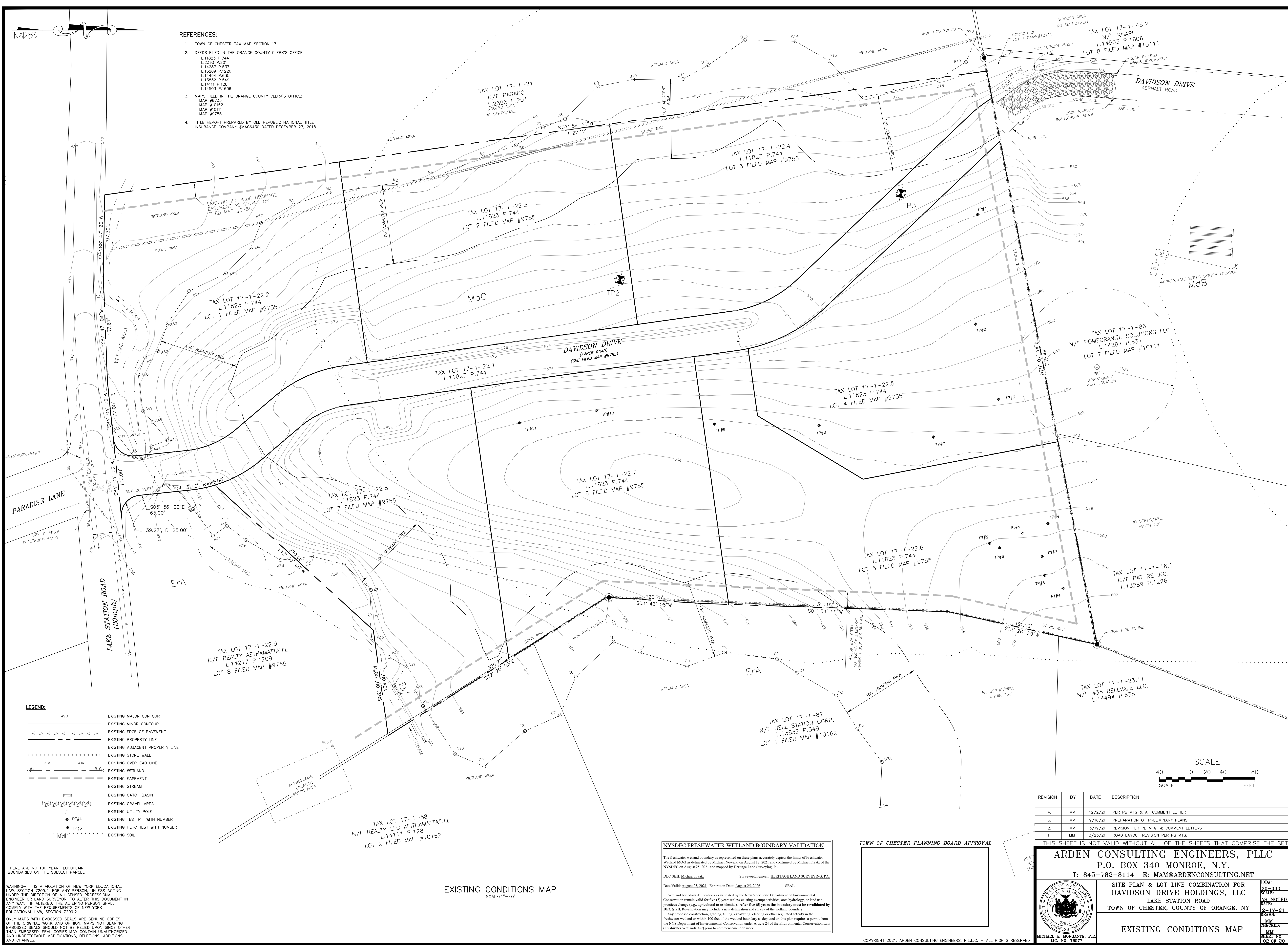
TITLE SHEET

JOB#:
20-030
SCALE:
AS NOTED
DATE:
2-17-21
DRAWN:
MM
CHECKED:
MM
SHEET NO.
01 OF 20

NAD83

REFERENCES:

- TOWN OF CHESTER TAX MAP SECTION 17.
- DEEDS FILED IN THE ORANGE COUNTY CLERK'S OFFICE:
L.11823 P.744
L.2393 P.201
L.14287 P.537
L.13289 P.1226
L.14494 P.635
L.13832 P.549
L.14111 P.128
L.14503 P.1606
- MAPS FILED IN THE ORANGE COUNTY CLERK'S OFFICE:
MAP #9733
MAP #10162
MAP #10111
MAP #9755
- TITLE REPORT PREPARED BY OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY #MAC6430 DATED DECEMBER 27, 2018.



LEGEND:

- 490 --- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING EDGE OF PAVEMENT
- EXISTING PROPERTY LINE
- EXISTING ADJACENT PROPERTY LINE
- EXISTING STONE WALL
- EXISTING OVERHEAD LINE
- EXISTING WETLAND
- EXISTING EASEMENT
- EXISTING STREAM
- EXISTING CATCH BASIN
- EXISTING GRAVEL AREA
- EXISTING UTILITY POLE
- EXISTING TEST PIT WITH NUMBER
- EXISTING PERC TEST WITH NUMBER
- EXISTING SOIL

THERE ARE NO 100 YEAR FLOODPLAIN BOUNDARIES ON THE SUBJECT PARCEL.

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EXISTING CONDITIONS MAP

SCALE: 1"=40'

NYSDEC FRESHWATER WETLAND BOUNDARY VALIDATION

The freshwater wetland boundary as represented on these plans accurately depicts the limits of Freshwater Wetland MO-3 as delineated by Michael Novicki on August 18, 2021 and confirmed by Michael Frate of the NYSDEC on August 25, 2021 and mapped by Heritage Land Surveying, P.C.

DEC Staff: Michael Frate Surveyor/Engineer: HERITAGE LAND SURVEYING, P.C.

Date Valid: August 25, 2021 Expiration Date: August 25, 2026 SEAL

Wetland boundary delineations as validated by the New York State Department of Environmental Conservation remain valid for five (5) years unless existing exempt activities, area hydrology, or land use practices change (e.g., agricultural to residential). After five (5) years the boundary must be revalidated by DEC Staff. Revalidation may include a new delineation and survey of the wetland boundary. Any proposed construction, grading, filling, excavating, clearing or other regulated activity in the freshwater wetland or within 100 feet of the wetland boundary as depicted on this plan requires a permit from the NYS Department of Environmental Conservation under Article 24 of the Environmental Conservation Law (Freshwater Wetlands Act) prior to commencement of work.

TOWN OF CHESTER PLANNING BOARD APPROVAL



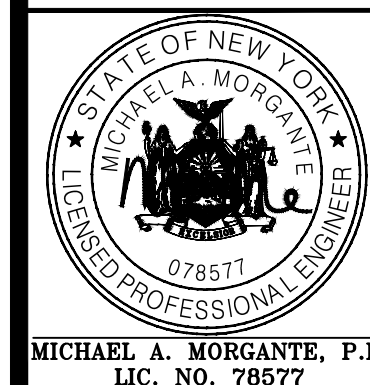
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SITE PLAN & LOT LINE COMBINATION FOR DAVIDSON DRIVE HOLDINGS, LLC
LAKE STATION ROAD
TOWN OF CHESTER, COUNTY OF ORANGE, NY

EXISTING CONDITIONS MAP



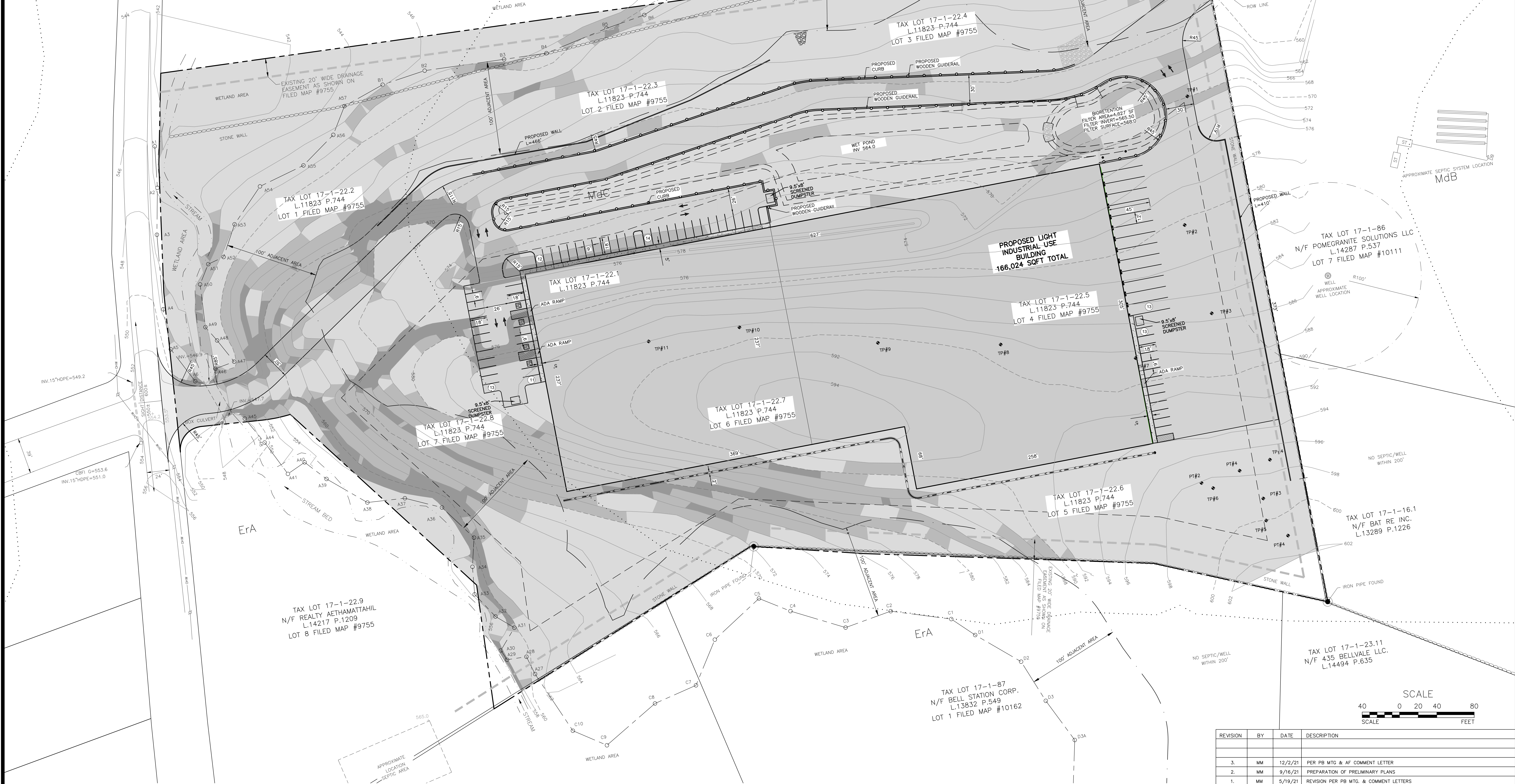
JOB#: 20-030
SCALE: AS NOTED
DATE: 2-17-21
DRAWN: MM
CHECKED: MM
SHEET NO. 02 OF 20

NA2083

LEGEND:

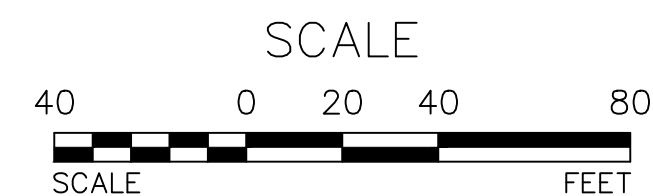
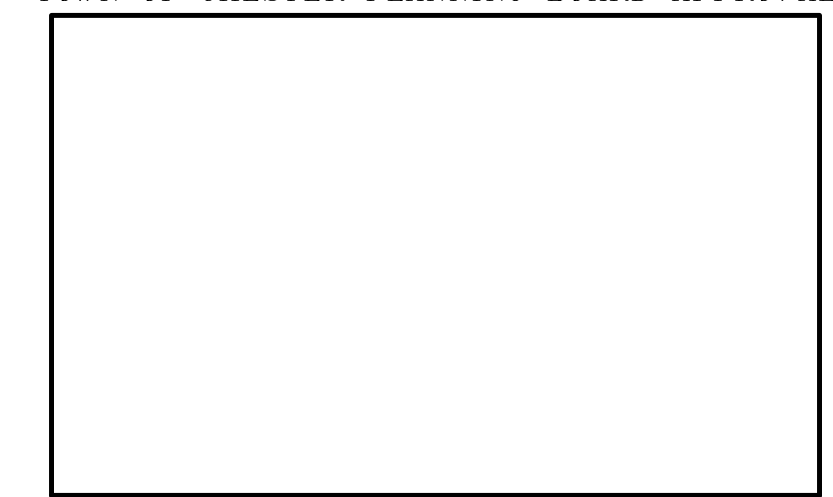
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- EXISTING SOIL
- EXISTING CATCH BASIN
- EXISTING GRAVEL AREA
- EXISTING UTILITY POLE
- EXISTING TEST PIT WITH NUMBER
- EXISTING PERC TEST WITH NUMBER
- PROPOSED SETBACK LINE
- PROPOSED EDGE OF PAVEMENT

NUMBER	MINIMUM SLOPE	MAXIMUM SLOPE	COLOR	AREA (SF)
1	0.00%	15.00%		559022.13
2	15.00%	25.00%		94914.61
3	25.00%	100.00%		42143.86



SLOPE ANALYSIS
SCALE: 1"=40'

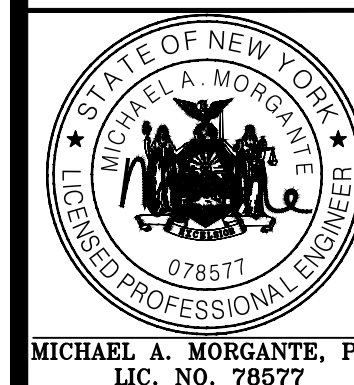
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SITE PLAN & LOT LINE COMBINATION FOR
DAVIDSON DRIVE HOLDINGS, LLC
LAKE STATION ROAD
TOWN OF CHESTER, COUNTY OF ORANGE, NY

SLOPE ANALYSIS

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NAD83

TABLE OF ZONING REQUIREMENTS:

ZONE 1P (LIGHT ENTERPRISE)
LIGHT INDUSTRIAL USE BUILDING

LOT DIMENSIONS

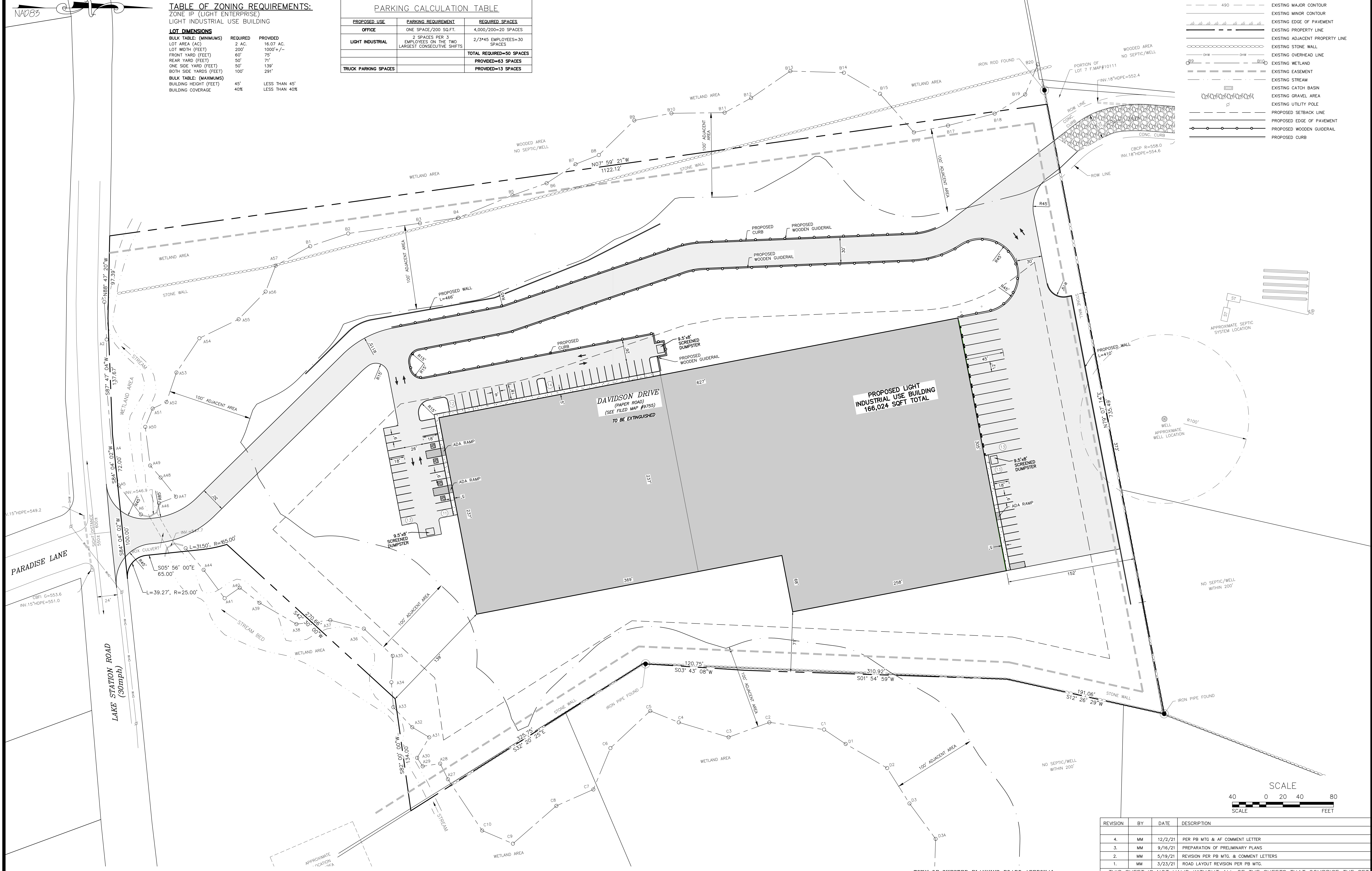
BULK TABLE: (MINIMUMS)	REQUIRED	PROVIDED
LOT AREA (AC)	2 AC	16.07 AC
LOT WIDTH (FEET)	200'	1000'+/-
FRONT YARD (FEET)	60'	75'
REAR YARD (FEET)	50'	71'
ONE SIDE YARD (FEET)	50'	139'
BOTH SIDE YARDS (FEET)	100'	291'
BULK TABLE: (MAXIMUMS)		
BUILDING HEIGHT (FEET)	45'	LESS THAN 45'
BUILDING COVERAGE	40%	LESS THAN 40%

PARKING CALCULATION TABLE

PROPOSED USE	PARKING REQUIREMENT	REQUIRED SPACES
OFFICE	ONE SPACE/200 SQ.FT.	4,000/200=20 SPACES
LIGHT INDUSTRIAL	2 SPACES PER 3 EMPLOYEES ON THE TWO LARGEST CONSECUTIVE SHIFTS	2/3*45 EMPLOYEES=30 SPACES
		TOTAL REQUIRED=50 SPACES
		PROVIDED=63 SPACES
TRUCK PARKING SPACES		PROVIDED=13 SPACES

LEGEND:

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- EXISTING EDGE OF PAVEMENT
- EXISTING PROPERTY LINE
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- EXISTING EASEMENT
- EXISTING STREAM
- EXISTING CATCH BASIN
- EXISTING GRAVEL AREA
- EXISTING UTILITY POLE
- PROPOSED SETBACK LINE
- PROPOSED EDGE OF PAVEMENT
- PROPOSED WOODEN GUIDERAIL
- PROPOSED CURB



SITE PLAN
SCALE: 1"=40'

TOWN OF CHESTER PLANNING BOARD APPROVAL

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TOWN OF CHESTER, COUNTY OF ORANGE, NY

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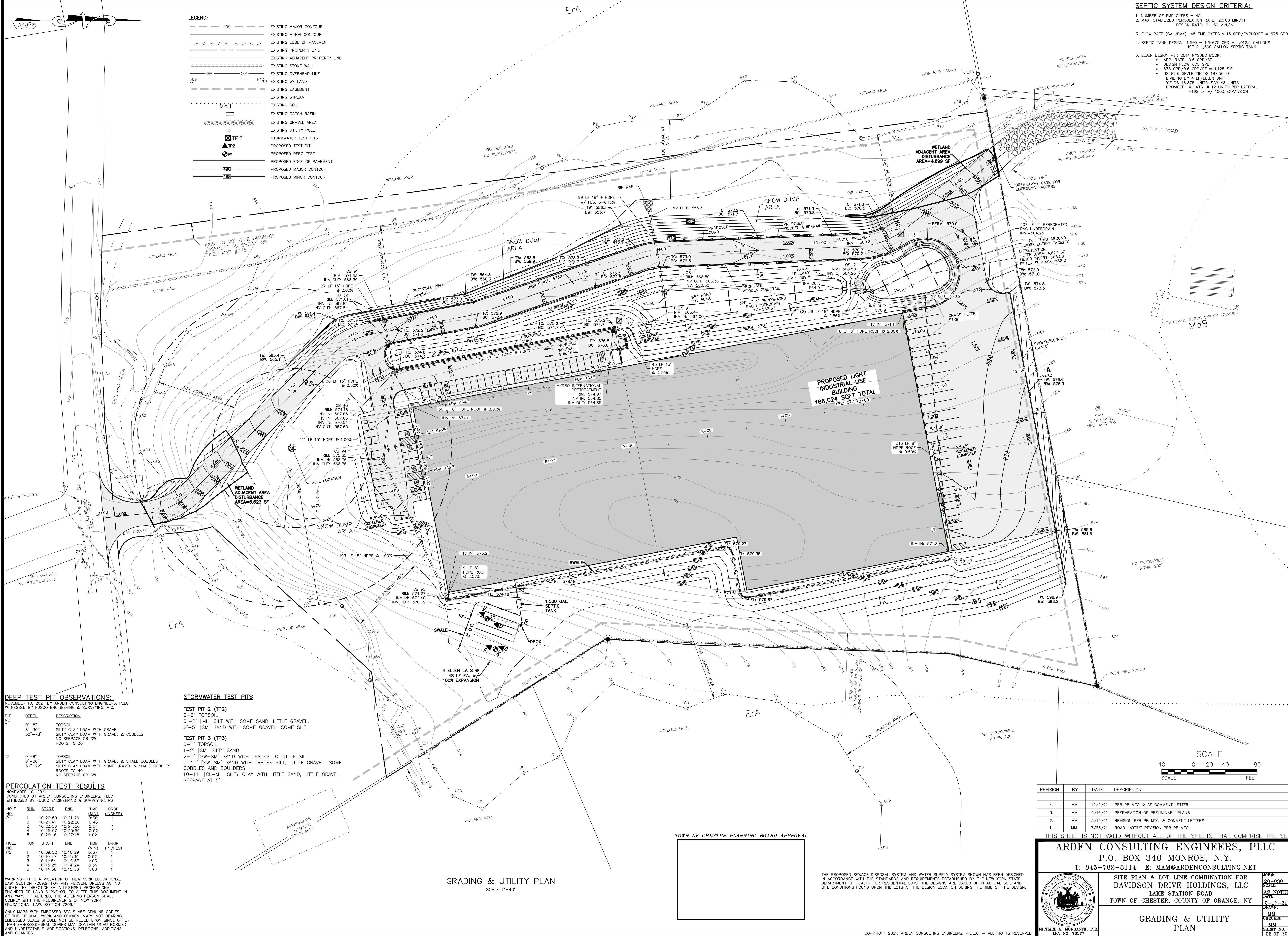
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- LEGEND:**
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 - EXISTING EASEMENT
 - EXISTING STREAM
 - EXISTING SOIL
 - EXISTING CATCH BASIN
 - EXISTING GRAVEL AREA
 - EXISTING UTILITY POLE
 - TP2 STORMWATER TEST PITS
 - TP1 PROPOSED TEST PIT
 - P1 PROPOSED PERC TEST
 - PROPOSED EDGE OF PAVEMENT
 - PROPOSED MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR

SEPTIC SYSTEM DESIGN CRITERIA:

1. NUMBER OF EMPLOYEES = 45
2. MAX. STABILIZED PERCOLATION RATE: 20.00 MIN/IN
DESIGN RATE: 21-30 MIN/IN
3. FLOW RATE (GAL/DAY): 45 EMPLOYEES x 15 GPD/EMPLOYEE = 675 GPD
4. SEPTIC TANK DESIGN: 1.5"Q = 1.5x675 GPD = 1,012.5 GALLONS
USE A 1,500 GALLON SEPTIC TANK
5. ELIEN DESIGN PER 2014 NYSDC BOOK:
 - APP. RATE: 0.6 GPD/SF
 - DESIGN FLOW=675 GPD
 - 675 GPD/0.6 GPD/SF = 1,125 S.F.
 - USING 6 SF/LF YIELDS 187.50 LF
 - DIVIDING BY 4 LF/ELIEN UNIT YIELDS 46.875 UNITS-SAY 48 UNITS
 - PROVIDED: 4 LATS. @ 12 UNITS PER LATERAL =192 LF @ 100% EXPANSION



DEEP TEST PIT OBSERVATIONS:

NOVEMBER 10, 2021 BY ARDEN CONSULTING ENGINEERS, PLLC
WITNESSED BY FUSCO ENGINEERING & SURVEYING, P.C.

PIT NO.	DEPTH	DESCRIPTION
T1	0'-8"	TOPSOIL
	8"-30"	SILTY CLAY LOAM WITH GRAVEL
	30"-78"	SILTY CLAY LOAM WITH GRAVEL & COBBLES NO SEEPAGE OR GW ROOTS TO 30"
T2	0'-8"	TOPSOIL
	8"-30"	SILTY CLAY LOAM WITH GRAVEL & SHALE COBBLES
	30"-72"	SILTY CLAY LOAM WITH SOME GRAVEL & SHALE COBBLES ROOTS TO 40" NO SEEPAGE OR GW

STORMWATER TEST PITS

- TEST PIT 2 (TP2)**
0-6" TOPSOIL
6"-2' (ML) SILT WITH SOME SAND, LITTLE GRAVEL.
2'-5' (SM) SAND WITH SOME GRAVEL, SOME SILT.
- TEST PIT 3 (TP3)**
0-1" TOPSOIL
1-2' (SM) SILTY SAND.
2-5' (SW-SM) SAND WITH TRACES TO LITTLE SILT.
5-10' (SW-SM) SAND WITH TRACES SILT, LITTLE GRAVEL, SOME COBBLES AND BOULDERS.
10-11' (CL-ML) SILTY CLAY WITH LITTLE SAND, LITTLE GRAVEL.
SEEPAGE AT 5'

PERCOLATION TEST RESULTS

NOVEMBER 10, 2021
CONDUCTED BY ARDEN CONSULTING ENGINEERS, PLLC
WITNESSED BY FUSCO ENGINEERING & SURVEYING, P.C.

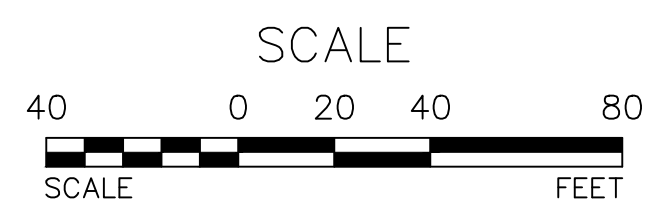
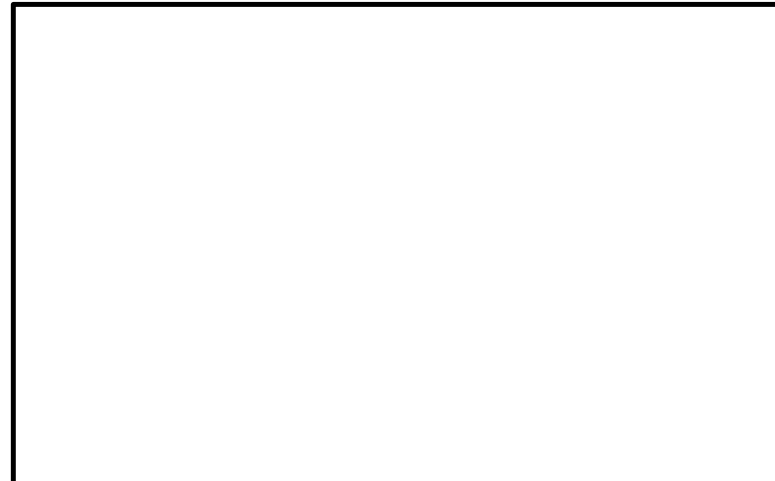
HOLE NO.	RUN	START	END	TIME (MIN)	DROP (INCHES)
P1	1	10:20:50	10:21:26	0:36	1
	2	10:21:41	10:22:26	0:45	1
	3	10:23:56	10:24:50	0:54	1
	4	10:25:07	10:25:59	0:52	1
	5	10:26:16	10:27:18	1:02	1
P2	1	10:09:32	10:10:29	0:57	1
	2	10:10:47	10:11:39	0:52	1
	3	10:11:54	10:12:57	1:03	1
	4	10:13:25	10:14:24	0:59	1
	5	10:14:56	10:15:56	1:00	1

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GRADING & UTILITY PLAN
SCALE: 1"=40'

TOWN OF CHESTER PLANNING BOARD APPROVAL



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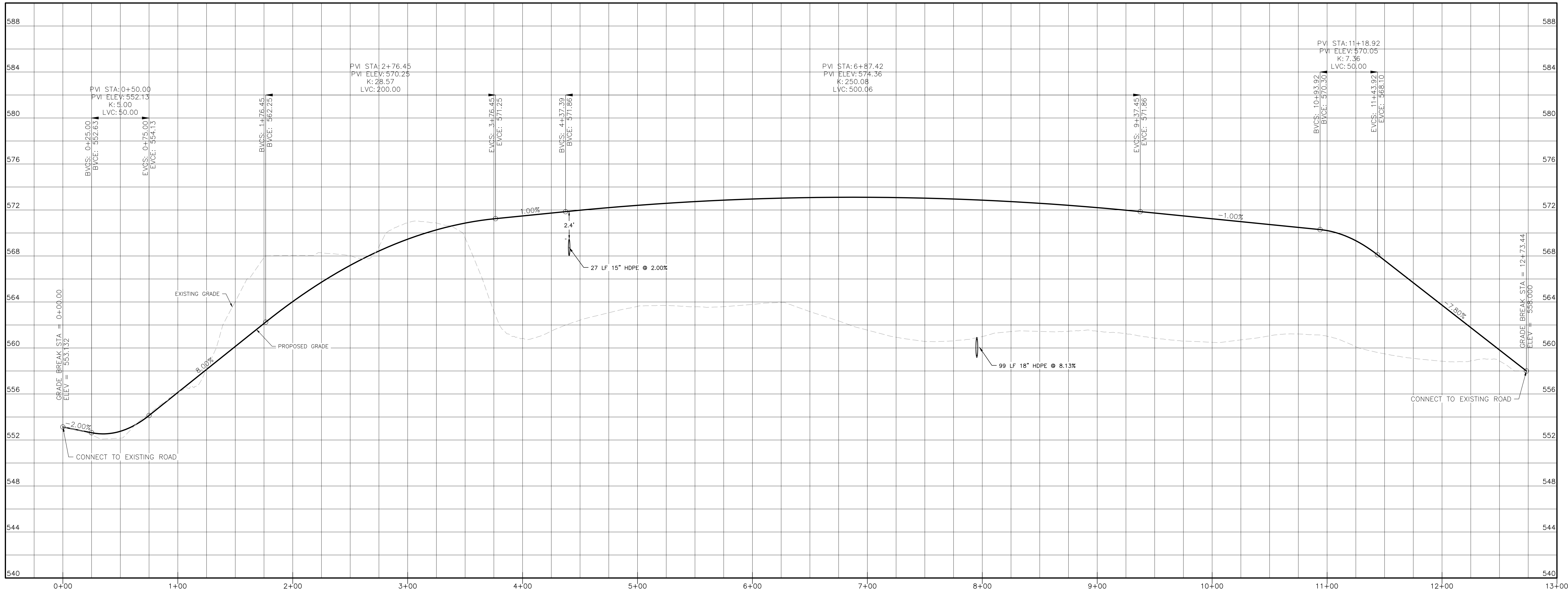
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SITE PLAN & LOT LINE COMBINATION FOR DAVIDSON DRIVE HOLDINGS, LLC
LAKE STATION ROAD
TOWN OF CHESTER, COUNTY OF ORANGE, NY

GRADING & UTILITY PLAN

NOV 10 2021
MICHAEL A. MORGANTE, P.E.
LIC. NO. 78577

JOB#: 20-030
SCALE: AS NOTED
DATE: 12-17-21
DRAWN: MM
CHECKED: MM
SHEET NO. 05 OF 20



DRIVEWAY PROFILE
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=4'

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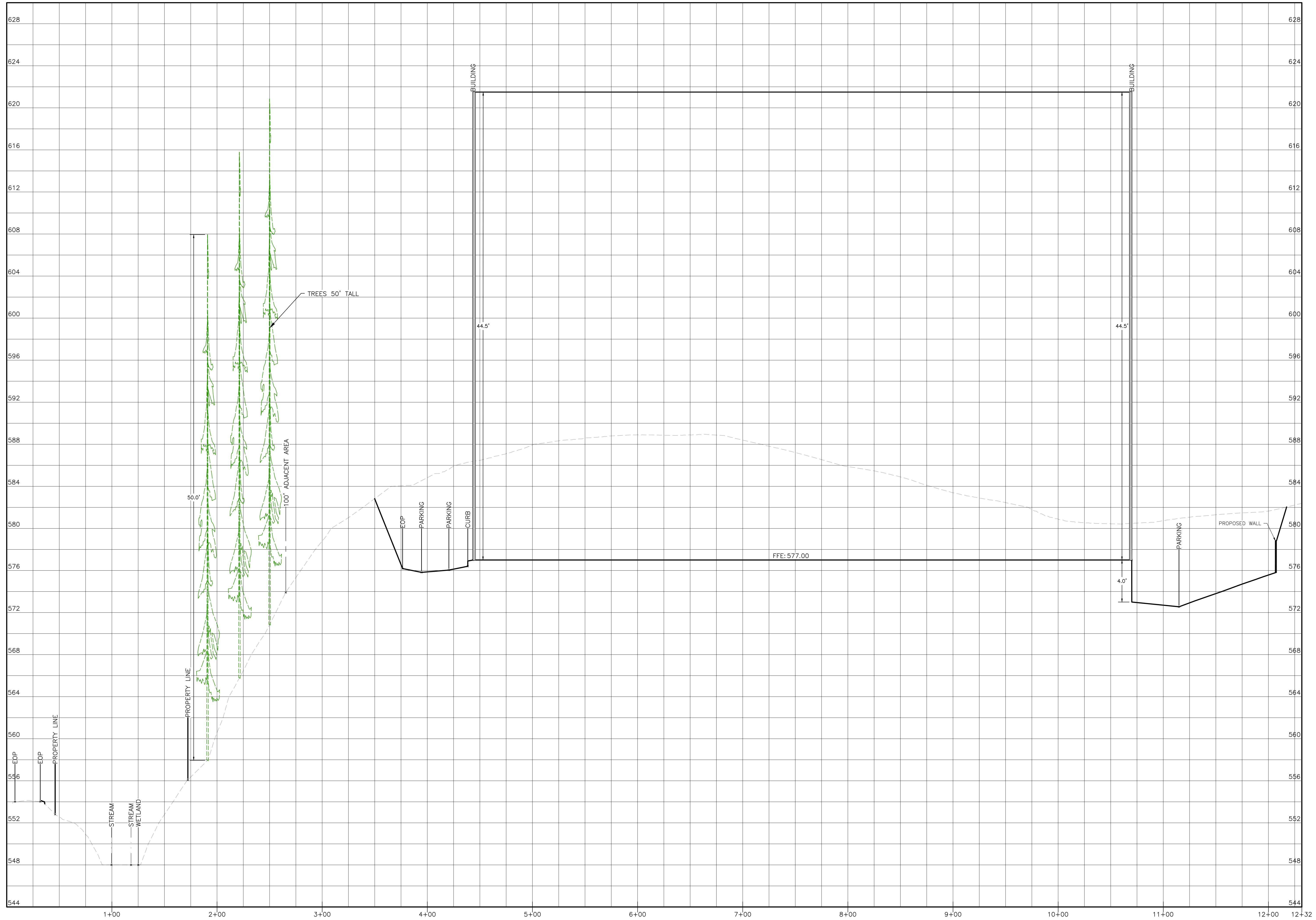
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DAVIDSON DRIVE HOLDINGS, LLC
LAKE STATION ROAD
TOWN OF CHESTER, COUNTY OF ORANGE, NY

DRIVEWAY PROFILES

JOB#: 20-0380
SCALE: AS NOTED
DATE: 12-17-21
DRAWN: MM
CHECKED: MM
SHEET NO. 06 OF 20

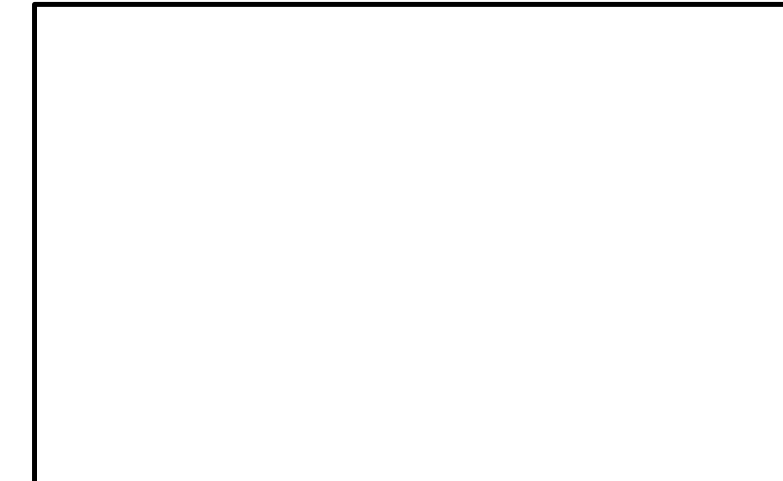


SECTION A-A
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=4'

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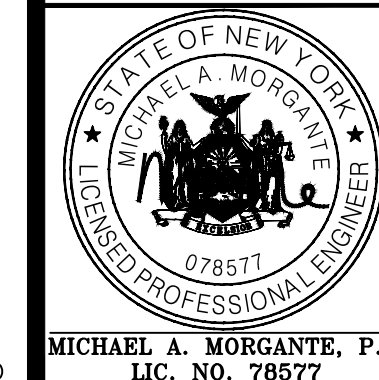
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REVISION	BY	DATE	DESCRIPTION
4.	MM	12/2/21	PER PB MTG & AF COMMENT LETTER
3.	MM	9/16/21	PREPARATION OF PRELIMINARY PLANS
2.	MM	5/19/21	REVISION PER PB MTG. & COMMENT LETTERS
1.	MM	3/23/21	ROAD LAYOUT REVISION PER PB MTG.

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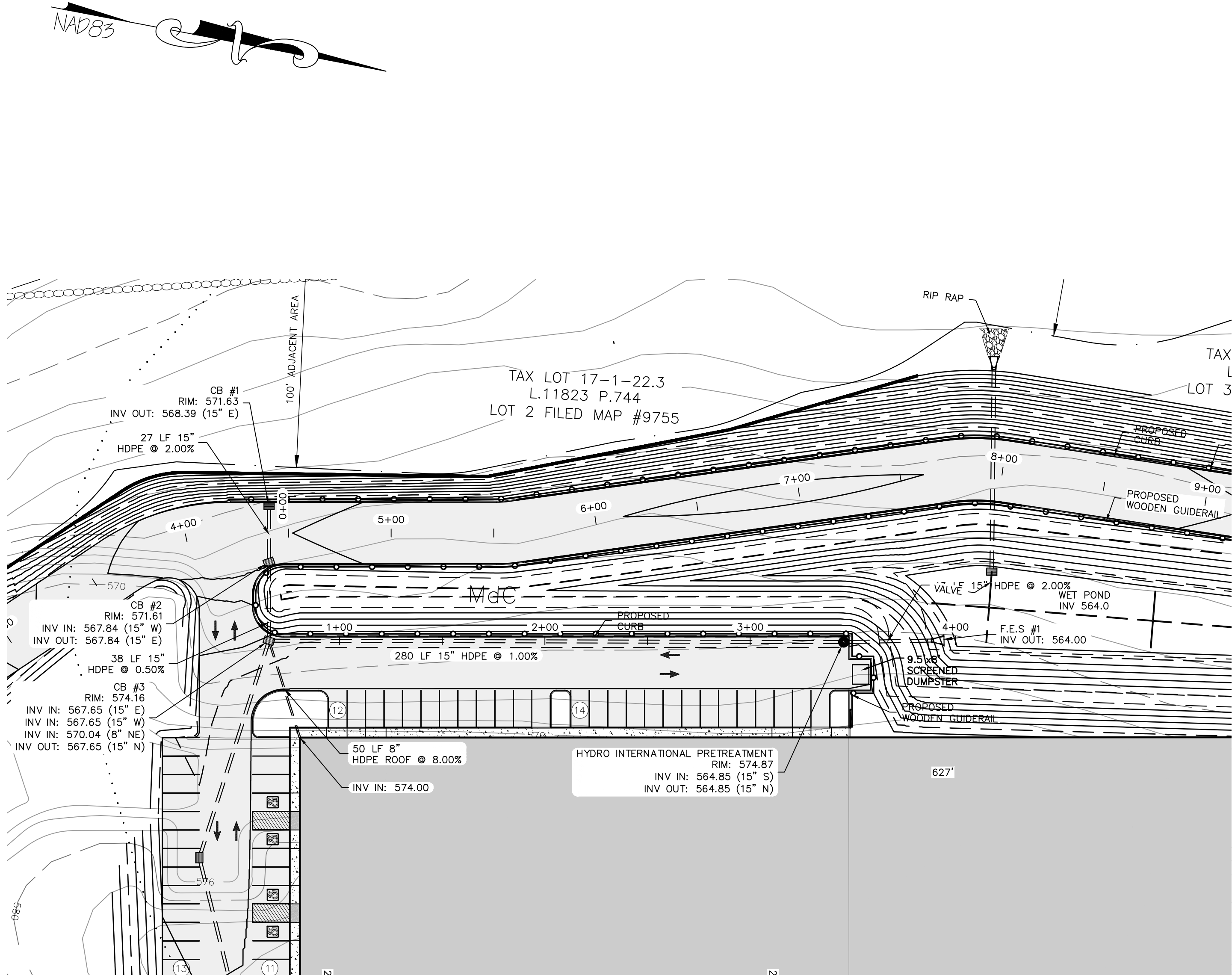
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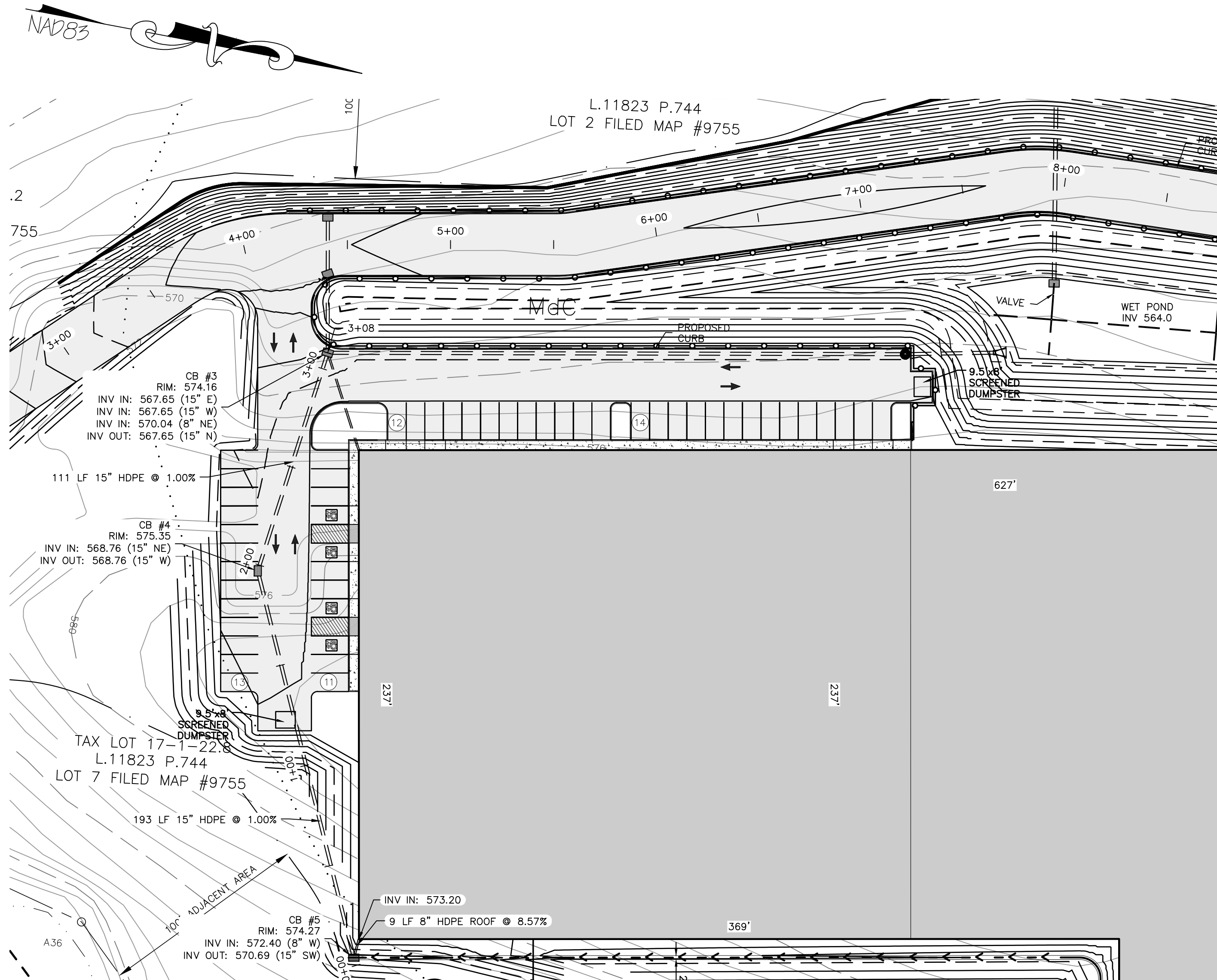
SITE PLAN & LOT LINE COMBINATION FOR
DAVIDSON DRIVE HOLDINGS, LLC
LAKE STATION ROAD
TOWN OF CHESTER, COUNTY OF ORANGE, NY

SECTION A-A

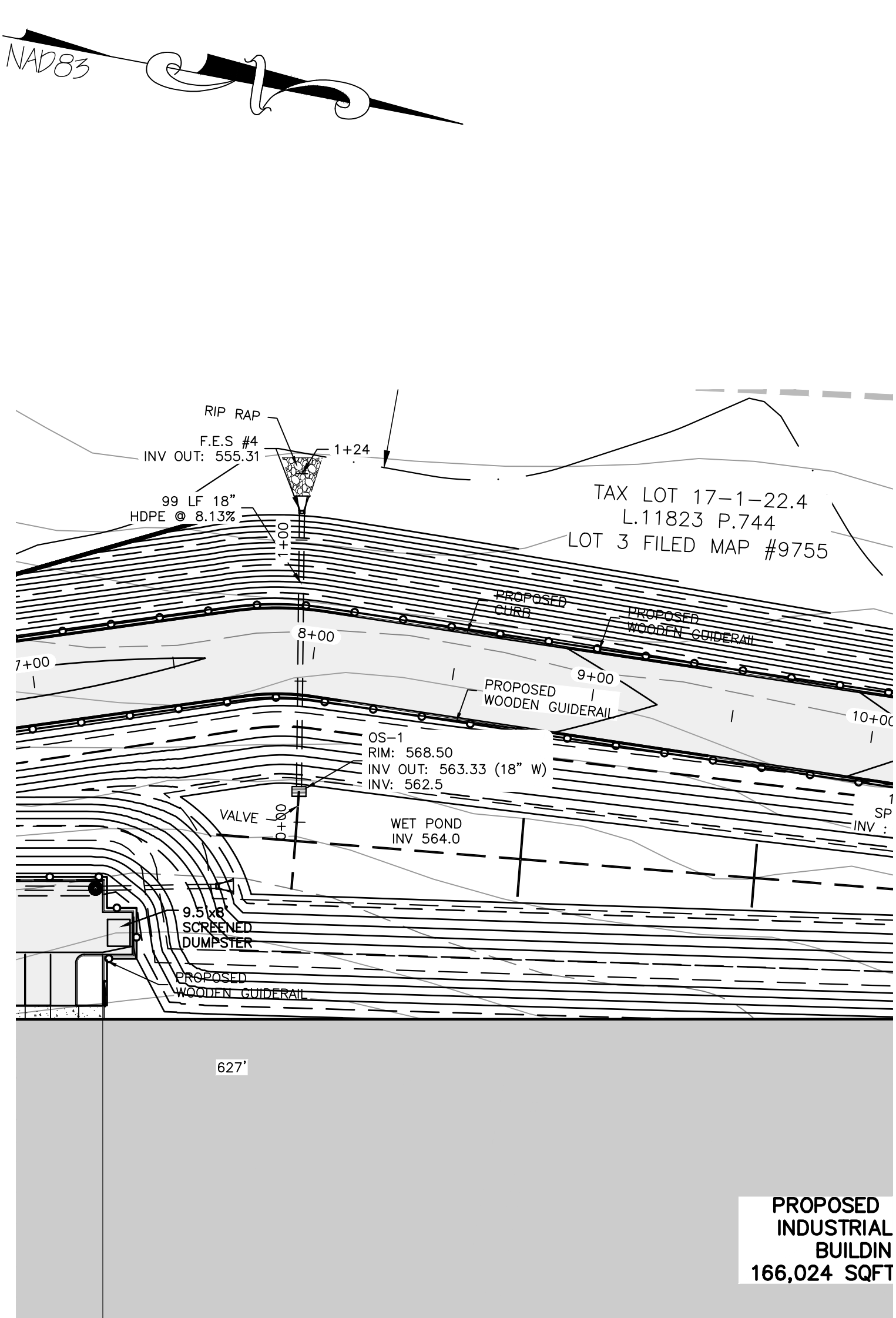
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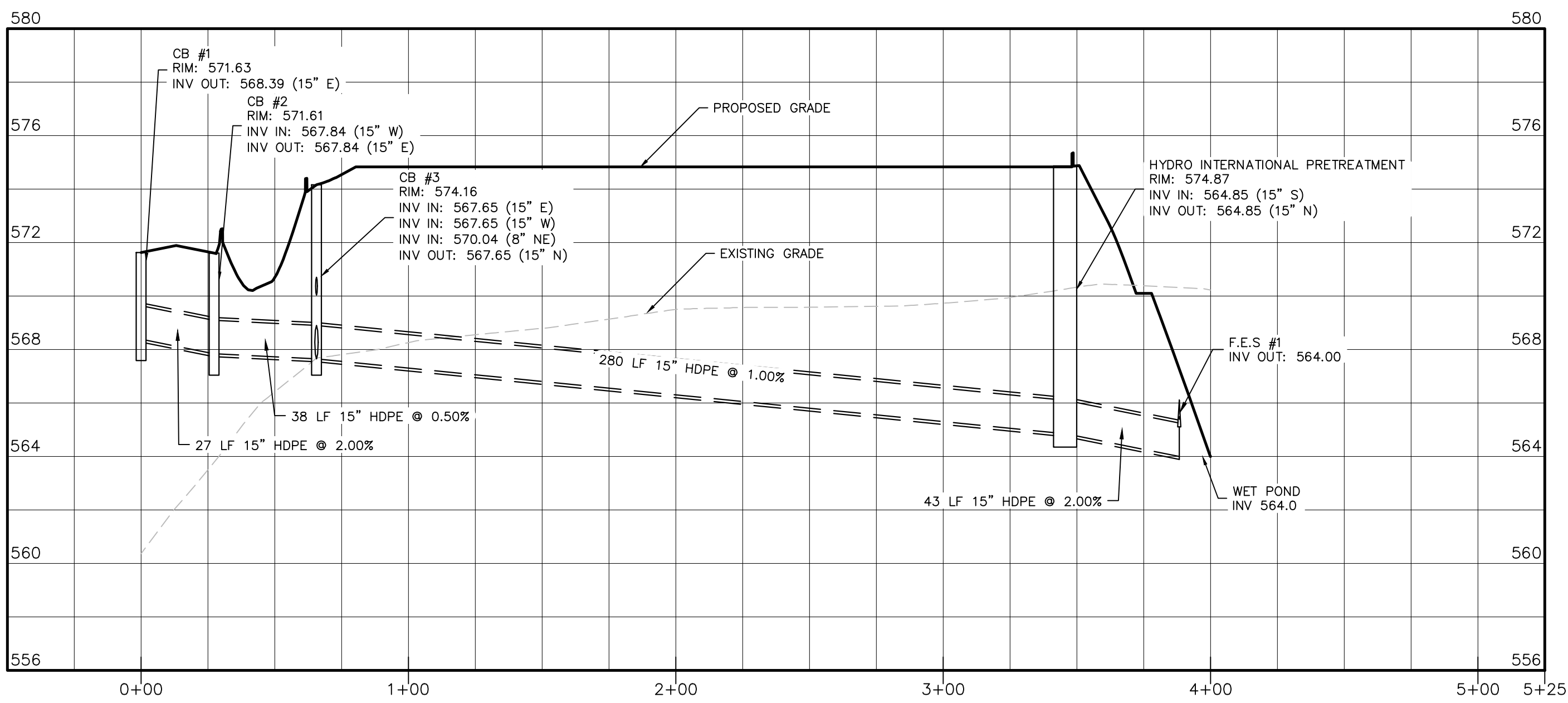
DRAINAGE PLAN #1
SCALE: 1"=40'



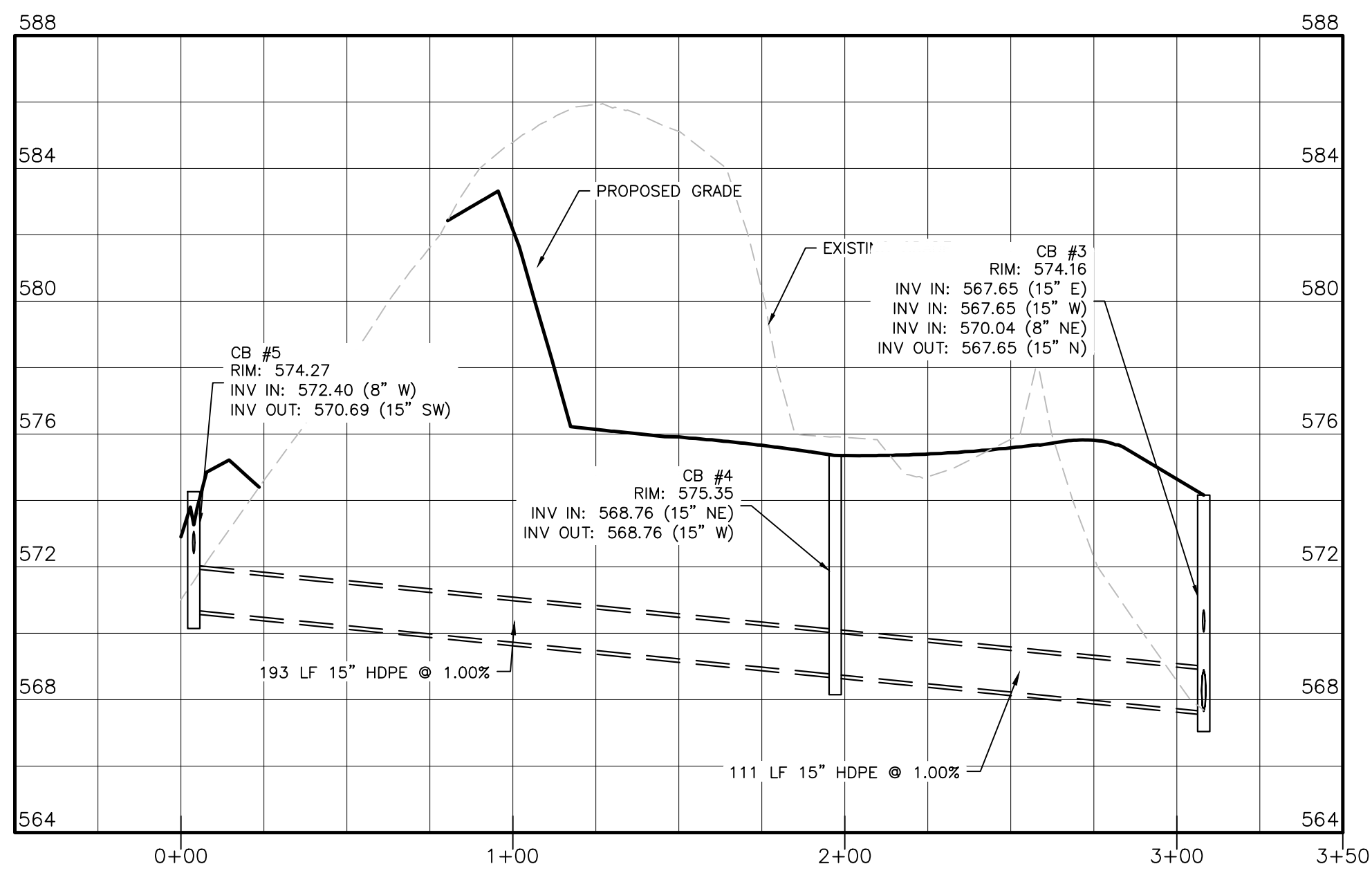
DRAINAGE PLAN #2
SCALE: 1"=40'



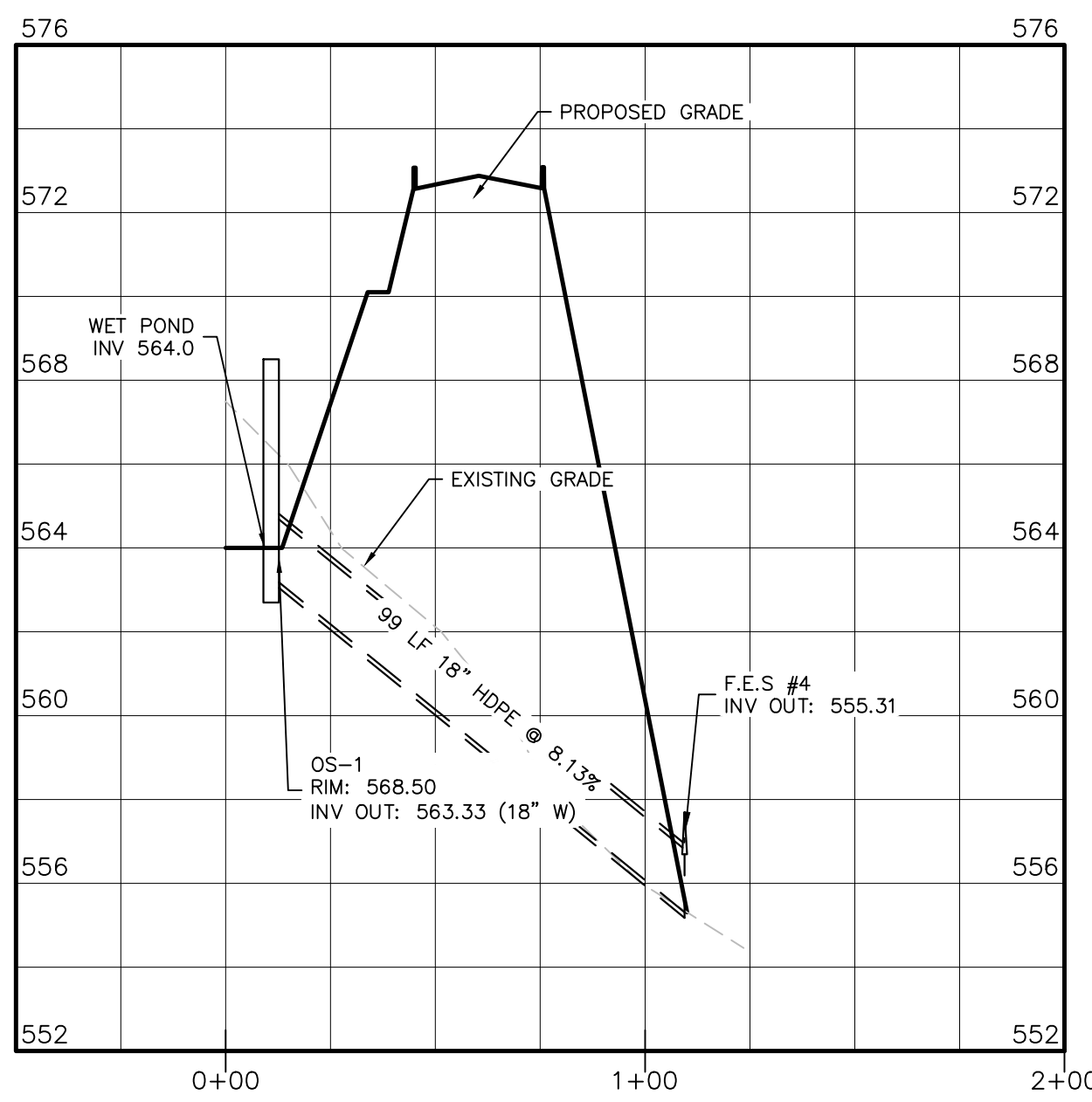
DRAINAGE PLAN #3
SCALE: 1"=40'



DRAINAGE PROFILES #1
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=4'



DRAINAGE PROFILES #2
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=4'



DRAINAGE PROFILES #3
HORIZONTAL SCALE: 1"=40'
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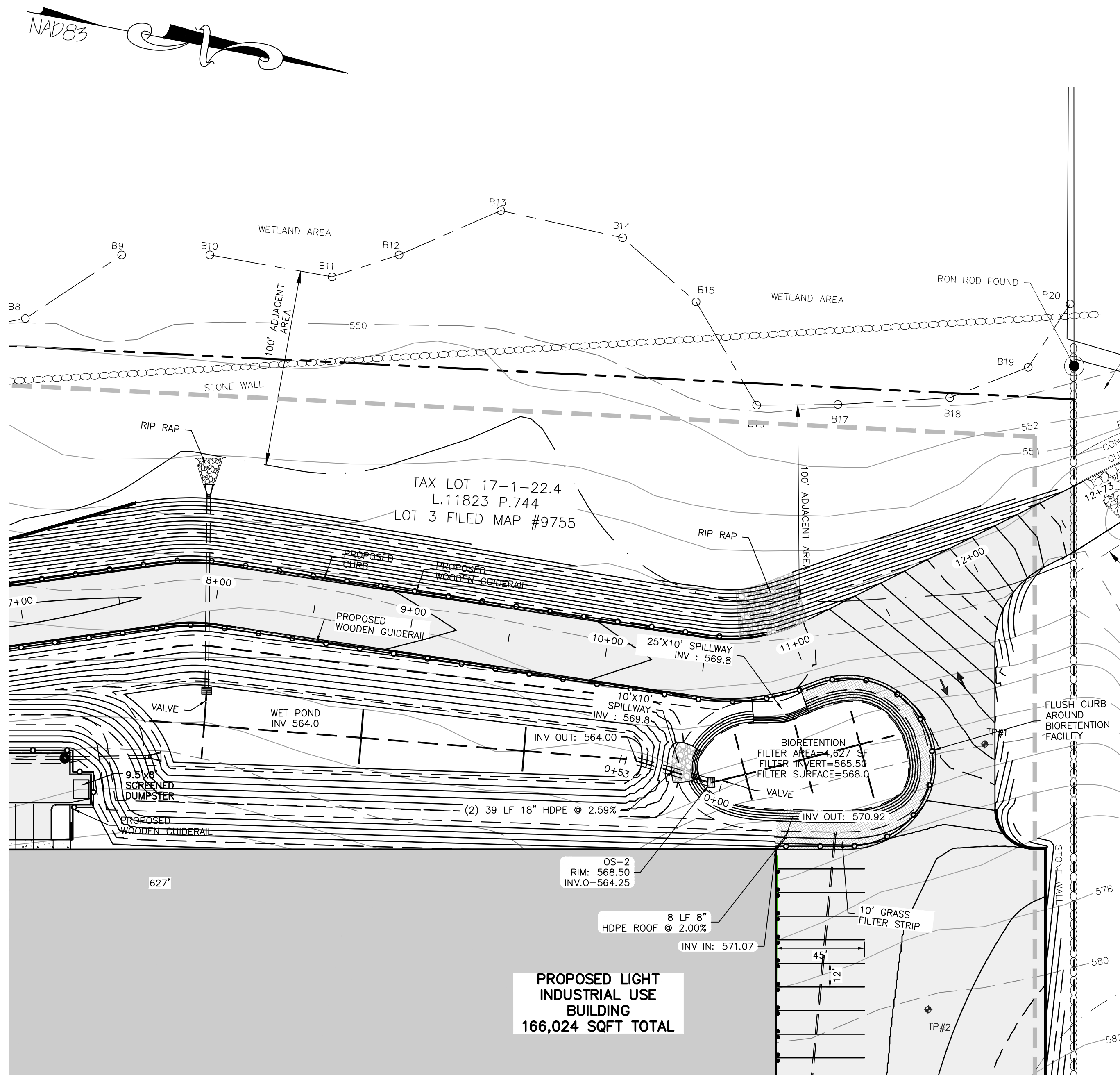
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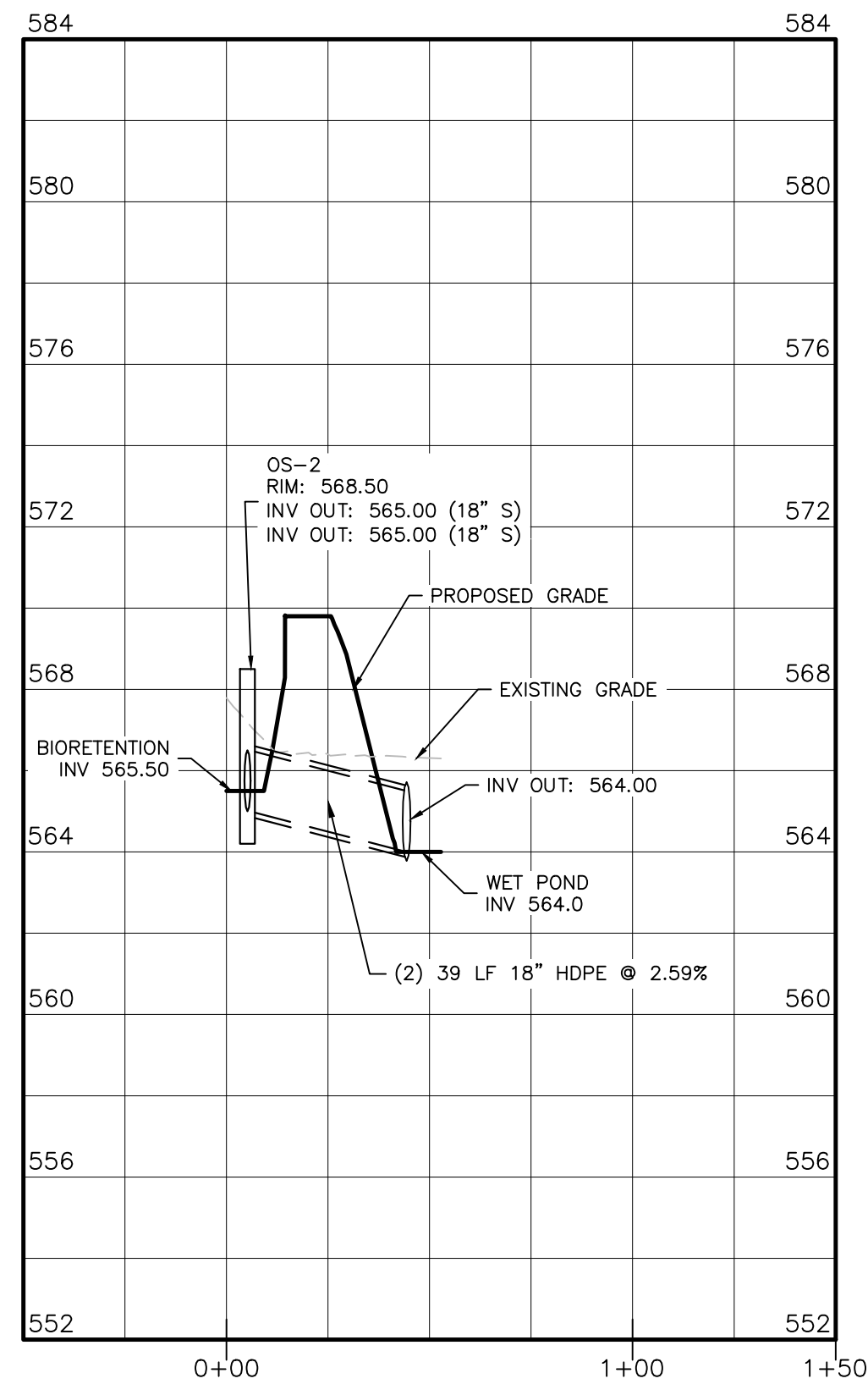
SITE PLAN & LOT LINE COMBINATION FOR
DAVIDSON DRIVE HOLDINGS, LLC
LAKE STATION ROAD
TOWN OF CHESTER, COUNTY OF ORANGE, NY

DRAINAGE PROFILES 1

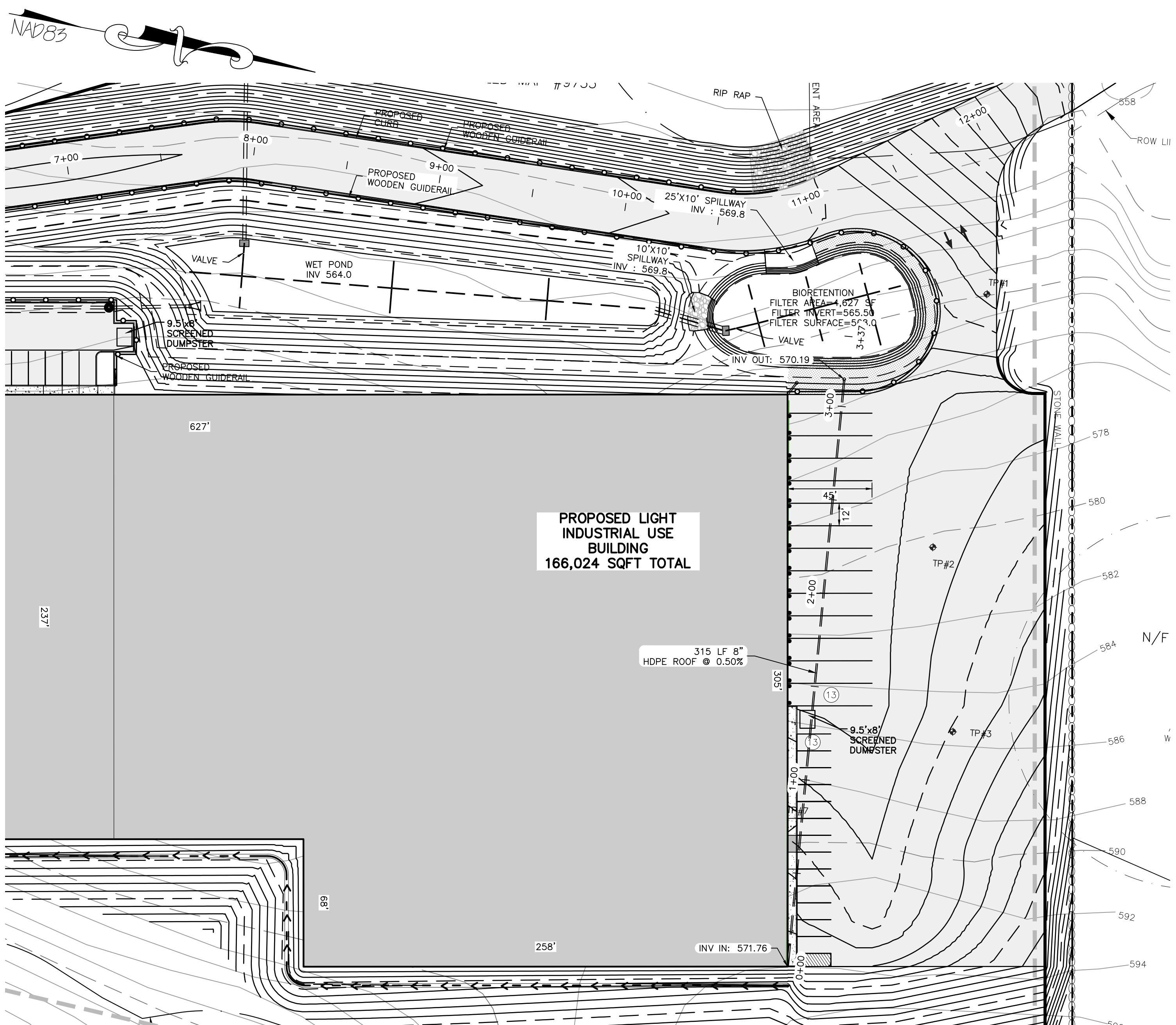
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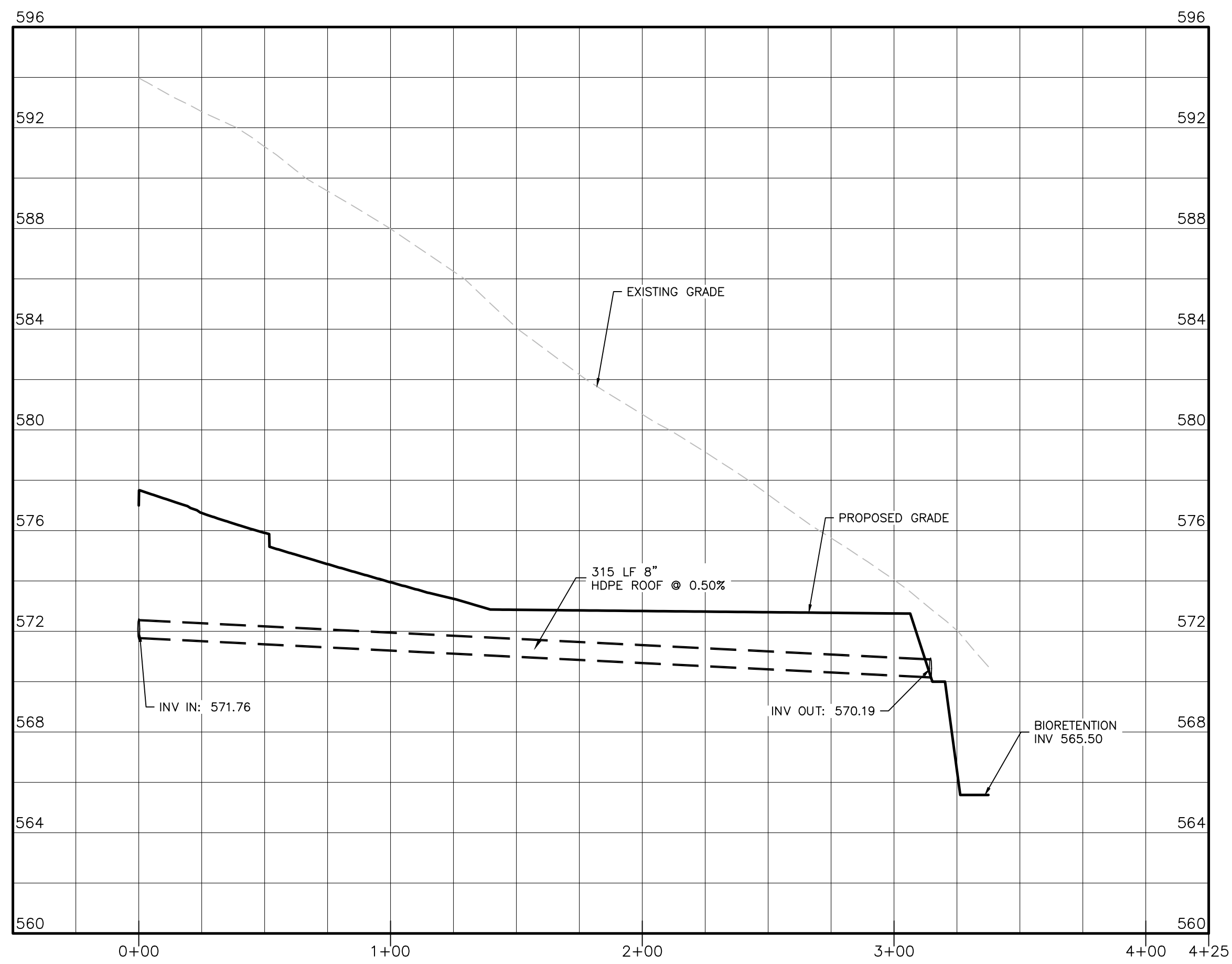
DRAINAGE PLAN #4
SCALE: 1"=40'



DRAINAGE PROFILES #4
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=4'



DRAINAGE PLAN #5
SCALE: 1"=40'



DRAINAGE PROFILES #5
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=4'

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DAVIDSON DRIVE HOLDINGS, LLC
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TOWN OF CHESTER, COUNTY OF ORANGE, NY

DRAINAGE PROFILES 2

JOB#: 20-030
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CHECKED: MM
SHEET NO. 09 OF 20

MICHAEL A. MORGANTE, P.E.
LIC. NO. 78577

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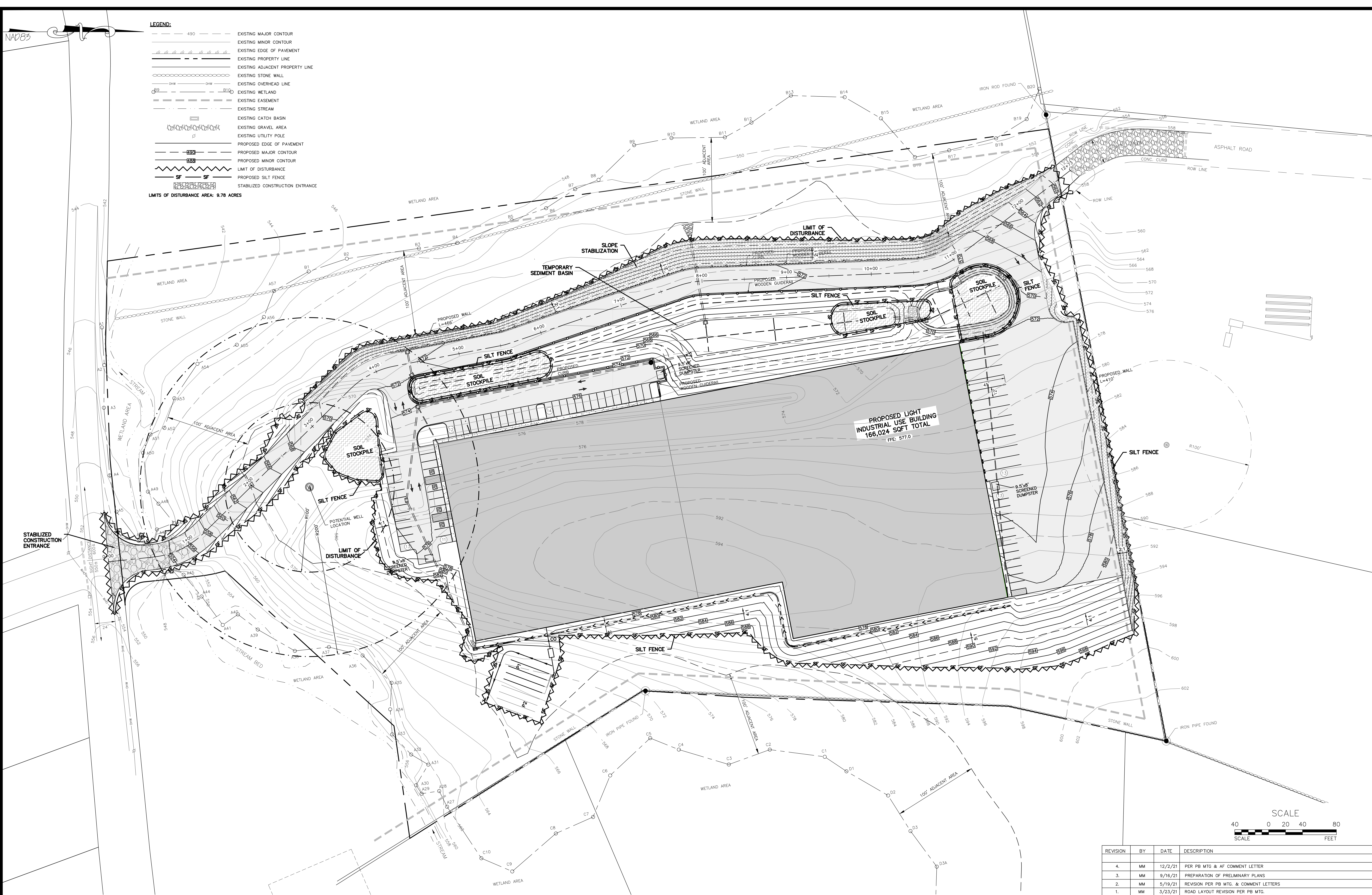
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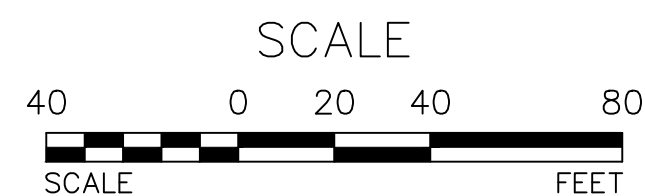
LEGEND:

- 490 EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING EDGE OF PAVEMENT
- EXISTING PROPERTY LINE
- EXISTING ADJACENT PROPERTY LINE
- EXISTING STONE WALL
- EXISTING OVERHEAD LINE
- EXISTING WETLAND
- EXISTING EASEMENT
- EXISTING STREAM
- EXISTING CATCH BASIN
- EXISTING GRAVEL AREA
- EXISTING UTILITY POLE
- PROPOSED EDGE OF PAVEMENT
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- LIMIT OF DISTURBANCE
- PROPOSED SILT FENCE
- STABILIZED CONSTRUCTION ENTRANCE

LIMITS OF DISTURBANCE AREA: 9.78 ACRES



EROSION AND SEDIMENT CONTROL PLAN
SCALE: 1"=40'



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LAKE STATION ROAD
TOWN OF CHESTER, COUNTY OF ORANGE, NY

EROSION AND SEDIMENT
CONTROL PLAN

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BEST MANAGEMENT PRACTICES FOR SITE FACILITY MAINTENANCE.

THE OWNER WILL BE RESPONSIBLE FOR THE MAINTENANCE AND OPERATION OF ALL SITE RELATED FACILITIES, INCLUDING THE STORM WATER SEDIMENT AND DETENTION BASINS AND THE FOLLOWING MEASURES AND/OR STRUCTURES, AS APPLICABLE AND SHOWN ON THE PLANS:

WATER QUALITY INLETS

1. WATER QUALITY INLETS SHALL BE CLEANED OUT AT LEAST TWICE A YEAR TO REMOVE POLLUTANTS. REMOVED MATERIAL SHOULD BE TAKEN TO A TREATMENT PLANT OR APPROVED LANDFILL FOR DISPOSAL.
2. STORM WATER INLETS THROUGHOUT THE SITE SHALL BE INSPECTED ANNUALLY FOR ACCUMULATED SEDIMENT OR OTHER PROBLEMS AND REPAIRED AS NECESSARY.

PARKING AND ROADWAY PAVEMENTS

1. PARKING AREA AND ROADWAY PAVEMENTS SHALL BE SWEEPED ON A REGULAR BASIS TO REMOVE ACCUMULATED SEDIMENT. COLLECTED SEDIMENT SHALL BE REMOVED TO AN APPROVED DISPOSAL SITE WHICH WILL NOT ALLOW THE RE-ENTRANCE OF SILT INTO THE STORM WATER DRAINAGE SYSTEM.

VEGETATIVE STABILIZATION

1. ALL VEGETATIVE PLANTING ON AREAS WHICH HAVE BEEN DISTURBED AND ARE FINISH GRADED SHALL BE INSPECTED AFTER EACH RAIN EVENT. PLANTING (OR SEEDING) SHALL BE MAINTAINED IN A VIABLE CONDITION TO STABILIZE THE SOIL AND TO PREVENT SOIL EROSION. RESTORE ALL SITE PLANTING AND/OR SEEDING WHICH HAS BEEN DAMAGED TO A VIABLE CONDITION.
2. IF VEGETATIVE STABILIZATION HAS BEEN DAMAGED FROM STORM WATER EROSION, CORRECT UPSTREAM CONDITIONS WHICH CAUSED THE EROSION. CHECK DAMS MAY BE REQUIRED IN DRAINAGE WAYS, AND STONE OUTFALL APRONS MAY BE REQUIRED TO BE REPAIRED AT STORM WATER OUTLETS.

CONSTRUCTION ACTIVITY

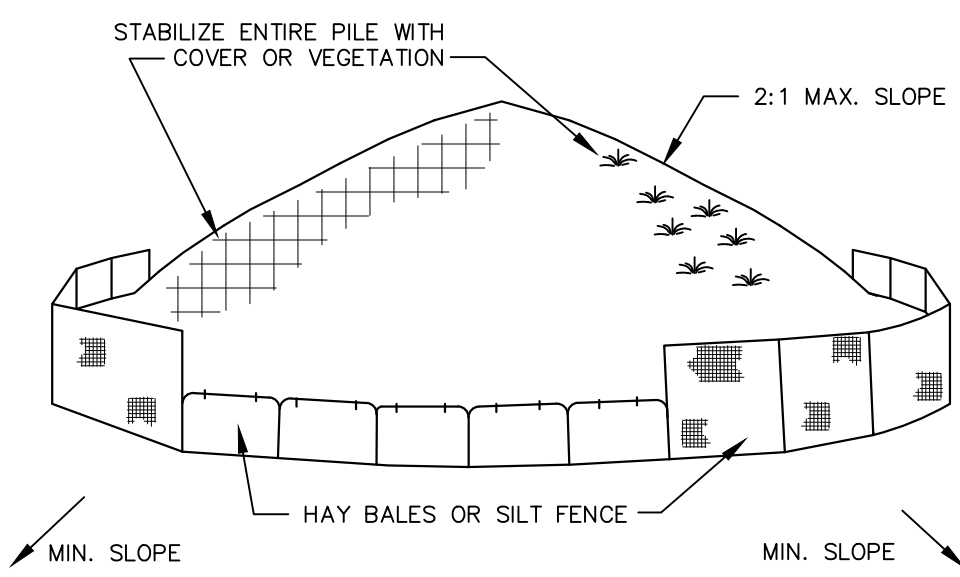
1. CONSTRUCTION ACTIVITIES WILL OCCUR DURING WEEKDAYS COMMENCING AT 7:00 AM AND TERMINATING AT 6:00 PM

EROSION AND SILTATION CONTROL NOTES:

1. GRADED AREAS – UPPER ELEVATIONS: PROVIDE TEMPORARY DRAINAGE SWALES, 1% GRADE MIN., TO DIRECT RUNOFF AWAY FROM CONSTRUCTION SITES, DISCHARGE AREAS AND ENERGY DISPERSION REQUIREMENTS TO BE ACCEPTABLE TO OWNERS.
2. GRADED AREAS – LOWER ELEVATIONS: PROVIDE DRAINAGE SWALES, 1% MIN. GRADES, WITH STAKED AND SECURED HAY BALE BERMS TO PREVENT DOWN STREAM AND DOWN GRADIENT SILTATION.

SEDIMENT & EROSION CONTROL NOTES & CONSTRUCTION SEQUENCING

1. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES FOR ALL ROAD AND DRIVE ENTRANCES. STREETS SHALL BE CLEANED DAILY.
2. INSTALL SEDIMENT BARRIERS/SWALES/DITCHES/DIKES AT DOWN SLOPE AREAS FROM ALL PROPOSED GRADING OPERATIONS, AND INSTALL OTHER SEDIMENTATION AND EROSION CONTROL STRUCTURES OR MEASURES AS SHOWN ON THE DRAWINGS.
3. LAND DISTURBANCE SHALL BE LIMITED TO ONLY THAT AREA NECESSARY FOR DEVELOPMENT. NO MORE THAN FIVE (5) ACRES OF UNPROTECTED SOIL SHALL BE DISTURBED AT ONE TIME. PREVIOUS EARTHWORK SHALL BE STABILIZED AS SPECIFIED BEFORE ADDITIONAL AREA IS EXPOSED. EXISTING DWELLINGS AND STRUCTURES SHALL BE REMOVED PRIOR TO ANY SITE CLEARING AND SOIL DISTURBANCE.
4. CLEAR EXISTING TREES AND VEGETATION FROM AREAS TO BE EXCAVATED OR FILLED, THEN STRIP AND STOCKPILE TOPSOIL FROM ALL AREAS TO BE DISTURBED. SEED STOCKPILED TOPSOIL WITH TEMPORARY RYEGRASS COVER AS SPECIFIED BELOW (SEE NOTE 8), AND ERECT A SILT FENCE AROUND THE STOCKPILE.
5. PROTECT ALL TREES WHICH ARE TO REMAIN AND WHICH ARE IN OR NEAR CONSTRUCTION AREAS.
6. PERFORM NECESSARY EXCAVATION OR FILL OPERATIONS TO BRING SITE TO DESIRED SUBGRADE.
7. INSTALL SEDIMENT BARRIERS AROUND ALL STORM DRAIN INLETS, OR MODIFY SEDIMENT CONTROL MEASURES INSTALLED IN #2 ABOVE AND MAINTAIN UNTIL ALL DISTURBED AREAS ARE STABILIZED WITH VEGETATION AND ALL PAVEMENTS ARE PAVED WITH A BASE COURSE.
8. TEMPORARILY SEED ALL DISTURBED AREAS WHICH WILL REMAIN UNDISTURBED FOR A PERIOD OF 15 DAYS OR MORE AND WHICH WILL NOT BE UNDER CONSTRUCTION WITHIN 30 DAYS IN ACCORDANCE WITH SPECIFICATION FOR VEGETATIVE ESTABLISHMENT.
9. IF CONSTRUCTION IS SUSPENDED OR COMPLETED, ALL DISTURBED AREAS SHALL BE SEEDDED AND MULCHED IMMEDIATELY. ALL SLOPES STEEPER THAN ONE ON THREE (V/H) AND PERIMETER TRENCHES AND TRAP EMBANKMENTS SHALL, ON COMPLETION, BE IMMEDIATELY STABILIZED WITH TEMPORARY SEEDING AND MULCHING.
10. AFTER COMPLETION OF SITE CONSTRUCTION, FINE GRADE AND SPREAD TOPSOIL ON ALL LAWN AREAS AND SEED WITH PERMANENT LAWN MIX AS DISCUSSED ON THE SPECIFICATIONS FOR FOR VEGETATIVE ESTABLISHMENT ON THIS SHEET.
11. DURING THE PROGRESS OF CONSTRUCTION, MAINTAIN ALL SEDIMENT TRAPS, BARRIERS, AND FILTERS AS NECESSARY TO PREVENT THEIR BEING CLOGGED UP WITH SEDIMENT.
12. AFTER PAVEMENTS ARE INSTALLED AND PERMANENT VEGETATIVE COVER AND PLANTINGS ARE ESTABLISHED, REMOVE SEDIMENT BARRIERS AND SEED THOSE DISTURBED AREAS.
13. MAINTAIN ALL SEEDDED AND PLANTED AREAS TO INSURE A VIABLE STABILIZED VEGETATIVE COVER.
14. STRUCTURAL MEASURES MUST BE MAINTAINED TO BE EFFECTIVE. IN GENERAL, THESE MEASURES MUST BE PERIODICALLY INSPECTED TO INSURE STRUCTURAL INTEGRITY, TO DETECT VANDALISM DAMAGE, AND FOR CLEANING AND REPAIR WHENEVER NECESSARY.
15. DURING CONSTRUCTION, ALL STRUCTURES SHOULD BE INSPECTED WEEKLY AND AFTER EVERY RAIN. REMOVE ACCUMULATED SEDIMENT AND STOCKPILE AND STABILIZE IN AN AREA NOT SUBJECT TO FURTHER EROSION.
16. AFTER CONSTRUCTION IS COMPLETED, PERMANENT SEDIMENT OR EROSION CONTROL STRUCTURES SHOULD BE INSPECTED AT LEAST SEMI-ANNUALLY AND AFTER EVERY RAIN.

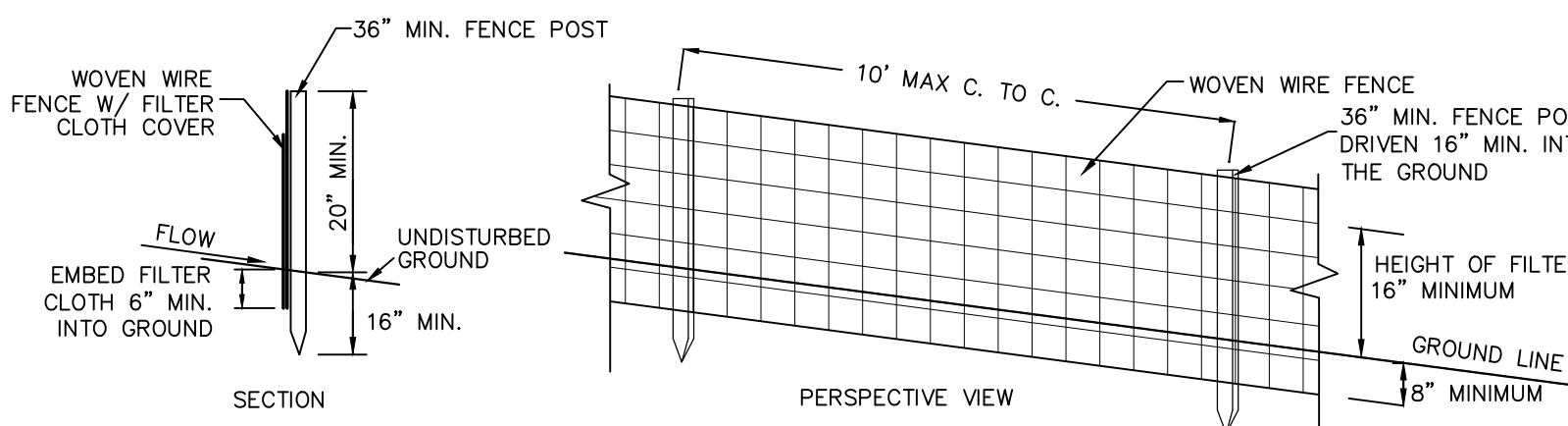


INSTALLATION NOTES:

1. AREA CHOSEN FOR STOCKPIILING OPERATIONS SHALL BE DRY AND STABLE
2. MAXIMUM SLOPE OF STOCKPILES SHALL BE 2:1.
3. UPON COMPLETION OF SOIL STOCKPIILING EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR HAY BALES, THEN STABILIZED WITH VEGETATION OR COVERED.
4. SEE SPECIFICATIONS FOR INSTALLATION OF SILT FENCE.

SOIL STOCKPILE DETAIL

NOT TO SCALE



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POST WITH WIRE TIES OR STAPLES.
 2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.
 4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN 'BULGES' DEVELOP IN THE SILT FENCE.
- POST: STEEL EITHER 'T' OR 'U' TYPE OR 2" HARDWOOD
FENCE: WOVEN WIRE, 14 1/2 GA. 6" MAX. MESH OPENING
FILTER CLOTH: FILTER X, MESH 100X, STABILINKA 1140N OR APPROVED EQUAL
PREFABRICATED UNIT: GEOFAB, ENVROFENCE, OR APPROVED EQUAL.

SILT FENCE DETAIL

NOT TO SCALE

SPECIFICATIONS FOR VEGETATIVE ESTABLISHMENT.

1. PERMANENT SEEDING:
 - a. SEEDING PREPARATION: AREA TO BE SEEDDED SHALL BE LOOSE AND FRIABLE TO A DEPTH OF AT LEAST 3 INCHES. THE TOP LAYER SHALL BE LOOSEENED BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING OCCURS. FOR SITES LESS THAN 5 ACRES, APPLY 100 POUNDS OF DOLOMITIC LIMESTONE AND 21 POUNDS OF 10-20-20 FERTILIZER PER 1,000 SF. HARROW OR DISK LIME AND FERTILIZER INTO THE SOIL TO A DEPTH OF AT LEAST 3 INCHES ON SLOPES FLATTER THAN 3:1.
 - b. SEEDING: APPLY 4-6 POUNDS PER 1,000 SF OF SEED MIX BETWEEN FEBRUARY 1 AND MAY 15 OR BETWEEN AUGUST 15 AND OCTOBER 31. APPLY SEED UNIFORMLY ON A MOIST FIRM SEEDBED WITH A CYCLONE SEEDER DRILL, CULTIPACKR SEEDER OR HYDROSEEDER (SLURRY INCLUDES SEEDS AND FERTILIZER, RECOMMENDED ON STEEP SLOPES ONLY). MAXIMUM SEED DEPTH SHOULD BE 1/4 INCH IN CLAYEY SOILS AND 1/2 INCH IN SANDY SOILS WHEN USING OTHER THAN THE HYDROSEEDER METHOD. IRRIGATE IF SOIL MOISTURE IS DEFICIENT TO SUPPORT ADEQUATE GROWTH UNTIL VEGETATION IS FIRMLY ESTABLISHED. SELECT SEED MIXTURES FROM SECTION 3, NYS GUIDELINES FOR URBAN EROSION & SEDIMENT CONTROL.
 - c. MULCHING: MULCH SHALL BE APPLIED TO ALL SEEDDED AREAS IMMEDIATELY AFTER SEEDING. DURING THE TIME PERIODS WHEN SEEDING IS NOT PERMITTED, MULCH SHALL BE APPLIED IMMEDIATELY AFTER GRADING. MULCH SHALL BE UNROTTED, UNCHOPPED, SMALL GRAIN STRAW APPLIED AT A RATE OF 2 TONS PER ACRE OR 90 POUNDS PER 1,000 SQUARE FEET (2 BALES). IF A MULCH ANCHORING TOOL IS USED, APPLY 2.5 TONS PER ACRE. MULCH MATERIALS SHALL BE RELATIVELY FREE OF ALL KINDS OF WEEDS AND SHALL BE COMPLETELY FREE OF PROHIBITED NOXIOUS WEEDS. SPREAD MULCH UNIFORMLY, MECHANICALLY, OR BY HAND TO A DEPTH OF 1-2 INCHES.
 - d. SECURING STRAW MULCH: STRAW MULCH SHALL BE SECURED IMMEDIATELY FOLLOWING MULCH APPLICATIONS TO MINIMIZE MOVEMENT OF WIND OR WATER. THE FOLLOWING METHODS ARE PERMITTED:
 - i. USE A MULCH ANCHORING TOOL WHICH IS DESIGNED TO PUNCH AND ANCHOR FABRIC TYPE MULCH INTO THE SOIL SURFACE TO A MINIMUM DEPTH OF 2 INCHES. THIS IS THE MOST EFFECTIVE METHOD FOR SECURING MULCH. HOWEVER, IT IS LIMITED TO RELATIVELY FLAT AREAS WHERE EQUIPMENT CAN OPERATE SAFELY.
 - ii. WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. APPLY THE FIBER BINDER AT A NET DRY WEIGHT OF 750 POUNDS PER ACRE, IF MIXED WITH WATER, USE 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER.
 - iii. LIQUID BINDERS MAY BE USED AND APPLIED HEAVIER AT THE EDGES WHERE WIND CATCHES MULCH, SUCH AS IN VALLEYS AND ON CRESTS OF SLOPES. THE REMAINDER OF THE AREA SHOULD APPEAR UNIFORM AFTER BINDER APPLICATION.
 - iv. LIGHTWEIGHT NETTING, MAY BE USED TO SECURE MULCH. THE NETTING WILL BE STAPLED TO THE GROUND ACCORDING TO MANUFACTURERS' RECOMMENDATIONS.

2. TEMPORARY SEEDING:

- LIME: 100 POUNDS OF DOLOMITIC LIMESTONE PER 1,000 SF
FERTILIZER: 15 POUNDS OF 10-10-10 PER 1,000 SF
SEED: PERENNIAL RYE-0.92 POUNDS PER 1,000 SF

3. FILL:

- NO FILLS MAY BE PLACED ON FROZEN GROUND. ALL FILL TO BE PLACED IN APPROXIMATELY HORIZONTAL LAYERS, EACH LAYER HAVING A LOOSE THICKNESS OF NOT MORE THAN 8 INCHES. ALL FILL IN ROADWAYS AND PARKING AREAS IS TO BE CLASSIFIED TYPE 2 COMPACTED TO 90% DENSITY. COMPACTION TO BE DETERMINED BY ASTM D-1557-86T (MODIFIED PROCTOR). ANY FILL WITHIN THE BUILDING AREA IS TO BE COMPACTED TO A MINIMUM OF 95% AS DETERMINED BY METHODS PREVIOUSLY MENTIONED. FILLS FOR POND EMBANKMENTS SHALL BE COMPACTED AS PER THE PROJECT ENGINEER'S SPECIFICATIONS. ALL OTHER FILLS SHALL BE COMPACTED SUFFICIENTLY SO AS TO BE STABLE AND PREVENT EROSION AND SLIPPAGE.

4. PERMANENT SOD:

- INSTALLATION OF SOD SHOULD FOLLOW THE PERMANENT SEEDING DATES. PERMANENT SOD IS TO BE STATE APPROVED SOD; LIME AND FERTILIZER PER PERMANENT SEEDING SPECIFICATIONS AND LIGHTLY IRRIGATE SOIL PRIOR TO LAYING SOD. SOD IS TO BE LAID ON THE CONTOUR WITH ALL ENDS TIGHTLY BUTTING. JOINTS ARE TO BE STAGGERED BETWEEN ROWS. WATER AND ROLL OR TAMP SOD TO INSURE POSITIVE ROOT CONTACT WITH THE SOIL. ALL SLOPES STEEPER THAN 3:1, AS SHOWN, ARE TO BE PERMANENTLY SODDED OR PROTECTED WITH APPROVED EROSION CONTROL NETTING. ADDITIONAL WATERING FOR ESTABLISHMENT MAY BE REQUIRED. SOD IS NOT TO BE APPLIED ON FROZEN GROUND. SOD SHALL NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (DRY OR WET) AND/OR EXTREME TEMPERATURE MAY ADVERSELY AFFECT ITS SURVIVAL. IN THE ABSENCE OF ADEQUATE RAINFALL, IRRIGATION SHOULD BE PERFORMED TO INSURE ESTABLISHED SOD.

SLOPE STABILIZATION, SEEDING METHOD & MULCHING

SLOPES OR 4:1 OR GREATER (HORIZONTAL - VERTICAL)

SLOPES SHALL BE HYDROSEEDDED WITH THE MIXTURES AND RATES INDICATED IN THE PERMANENT SEEDING MIXTURE SCHEDULE. STRAW OR HAY MULCH SHALL BE APPLIED AT A RATE OF 2,000 LBS./ACRE. STRAW OR HAY MULCH SHALL BE ANCHORED WITH BIO-MAT NETTING AS MANUFACTURED BY ROLANKA INTERNATIONAL OR APPROVED EQUIVALENT. NETTING TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS.

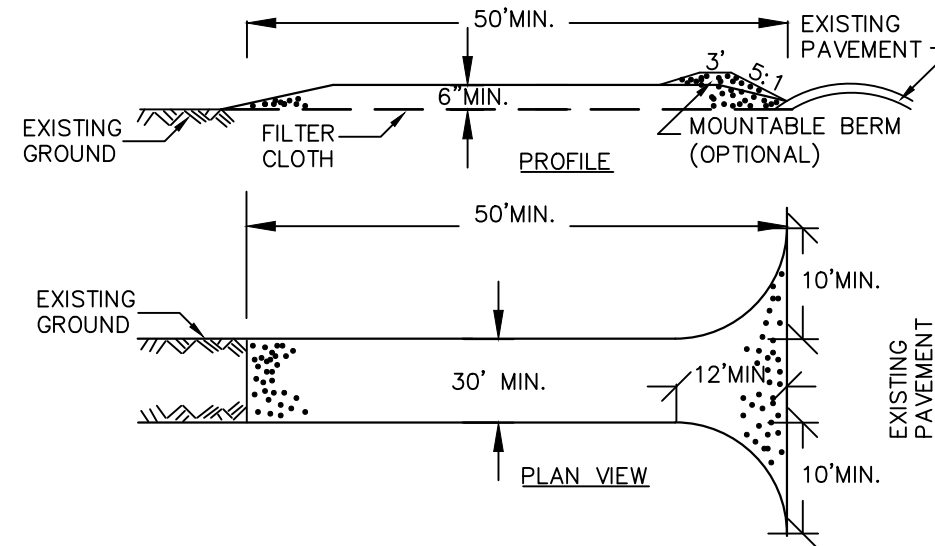
GENTLE SLOPE AND FLAT AREAS

AREA SHALL BE SEEDDED BY HYDROSEEDING OR BROADCASTING WITH THE MIXTURES AND RATES INDICATED ON THE PERMANENT SEEDING MIXTURE SCHEDULE. HYDROSEEDDED AREAS SHALL BE MULCHED WITH A WOOD FIBER MULCH APPLIED AT A RATE OF 500 LBS./ACRE. BROADCAST AREAS SHALL BE MULCHED WITH HAY OR STRAW AT A RATE OF 2,000 LBS./ACRE. AREAS SEEDDED BY BROADCASTING SHALL BE LIGHTLY RAKED AND PAVED PRIOR TO PLACING MULCH.

AREAS REMAINING DISTURBED FOR 30 DAYS OR MORE SHALL BE STABILIZED AS FOLLOWS:

SCARIFY SOILS IF COMPACTED, LIME TO pH OF 6.0 IF REQUIRED, FERTILIZE WITH 600 LBS./ACRE. 5-10-10 FERTILIZER IF REQUIRED. SEED WITH SPECIES AND RATE SHOWN BELOW. MULCH WITH HAY OR STRAW AT A RATE OF 2,000 LBS./ACRE. ANCHOR MULCH WITH NETTING OF WOOD FIBER OR JUTE IF STEEP SLOPE OR HIGH POTENTIAL FOR EROSION.

SPECIES	APPLICATION RATE
RYEGRASS (ANNUAL OR PERENNIAL) (USE WINTER RYE IF SEEDING IN OCT./NOV.)	30 LBS./ACRE (0.7 LBS./1,000 SF)



CONSTRUCTION SPECIFICATIONS

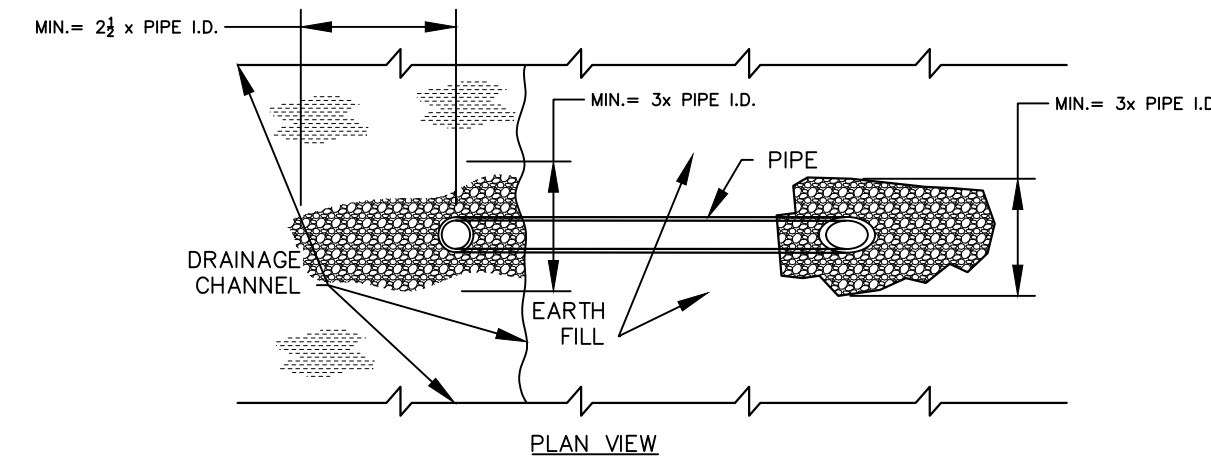
1. STONE SIZE – USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS – NOT LESS THAN SIX (6) INCHES.
4. WIDTH – TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. 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.
7. 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 TRACED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

FOR CONSTRUCTION SPECIFICATIONS REFER TO "NY GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL."

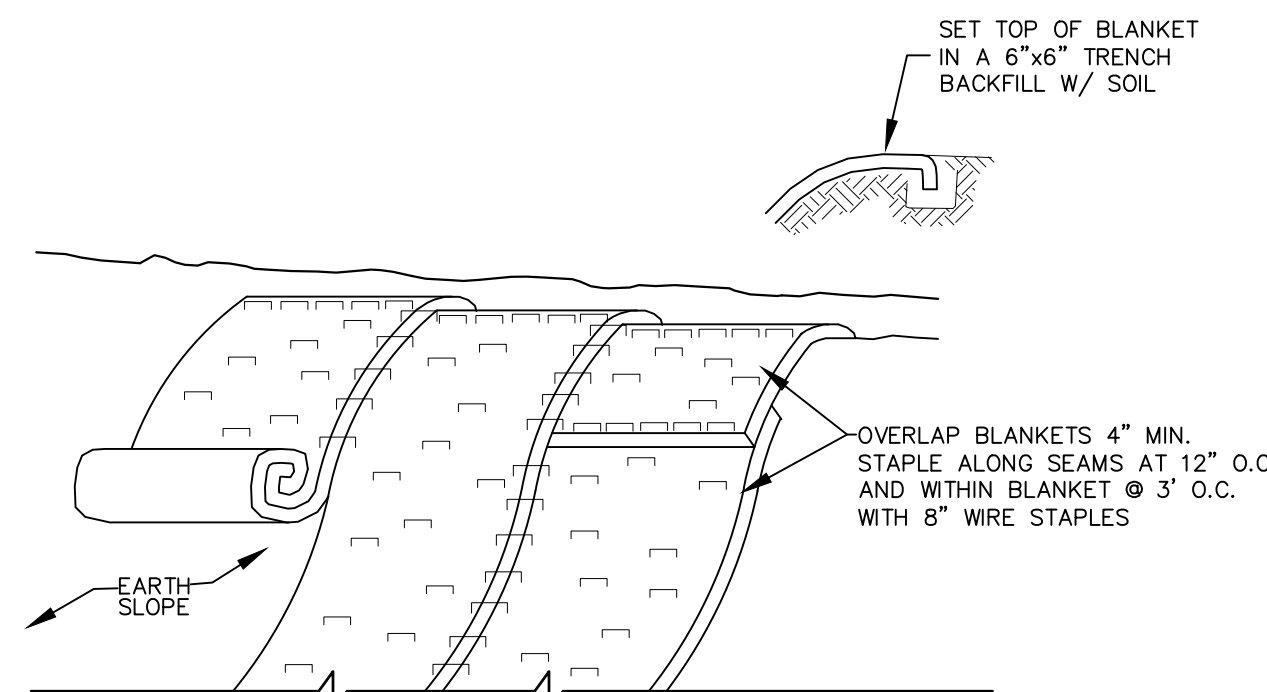
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SMALL TEMPORARY SETTLING BASIN

NOT TO SCALE

NOTE: TEMPORARY WEIR IS USED ACROSS STORM DRAINAGE CHANNELS TO FORM SETTLEMENT BASIN FOR DEWATERING OPERATIONS. ADDITIONAL LOCATIONS AND DESIGNS OF SETTLING BASINS OTHER THAN THOSE SHOWN ON THE PLANS SHALL BE APPROVED BY ENGINEER.



SLOPE STABILIZATION DETAIL

NOT TO SCALE

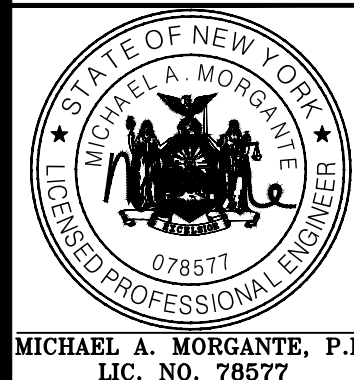
NOTES:

1. STABILIZE PREPARED EARTHEN SLOPE WITH A BIODEGRADABLE NATURAL FIBER NETTING. APPROVED TYPES ARE AS FOLLOWS:
 - C350 –NORTH AMERICAN GREEN #1-800-772-2040
 - ECCOVR 9000 –EASTERN PRODUCTS, INC. #1-201-234-5050
 - ERO-MAT V125C –EROSION CONTROL TECH. #1-800-245-0551
 - ALL SLOPE RESTORATION TO GET 4" TOPSOIL.
2. SEED SLOPE PRIOR TO INSTALLING EROSION CONTROL NETTING.
3. AFTER NETTING IS INSTALLED, PLANT GRASS-COVER, TREES & FORSYTHIA THROUGH SLITS CUT IN FABRIC.

REVISION	BY	DATE	DESCRIPTION
4.	MM	12/2/21	PER PB MTG & AF COMMENT LETTER
3.	MM	9/16/21	PREPARATION OF PRELIMINARY PLANS
2.	MM	5/19/21	REVISION PER PB MTG. & COMMENT LETTERS
1.	MM	3/23/21	ROAD LAYOUT REVISION PER PB MTG.

THIS SHEET IS NOT VALID WITHOUT ALL OF THE SHEETS THAT COMPRISE THE SET

ARDEN CONSULTING ENGINEERS, PLLC
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T: 845-782-8114 E: MAM@ARDENCONSULTING.NET



SITE PLAN & LOT LINE COMBINATION FOR
DAVIDSON DRIVE HOLDINGS, LLC
LAKE STATION ROAD
TOWN OF CHESTER, COUNTY OF ORANGE, NY

11 EROSION AND
SEDIMENT CONTROL
DETAILS

JOB#:
20-030
SCALE:
AS NOTED
DATE:
12-17-21
DRAWN:
MM
CHECKED:
MM
SHEET NO.
1 OF 20

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ONLY MAPS WITH EMBOSSED SEALS ARE GENUINE COPIES OF THE ORIGINAL WORK AND OPINION. MAPS NOT BEARING EMBOSSED SEALS SHOULD NOT BE RELIED UPON SINCE OTHER THAN EMBOSSED-SEAL COPIES MAY CONTAIN UNAUTHORIZED AND UNDETECTABLE MODIFICATIONS, DELETIONS, ADDITIONS AND CHANGES.

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LEGEND:

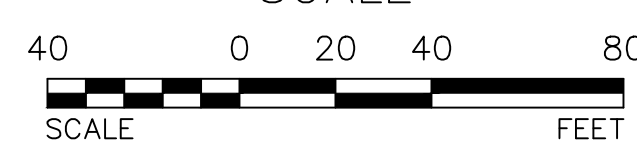
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	EXISTING EDGE OF PAVEMENT
	EXISTING PROPERTY LINE
	EXISTING ADJACENT PROPERTY LINE
	EXISTING STONE WALL
	EXISTING OVERHEAD LINE
	EXISTING WETLAND
	EXISTING STREAM
	EXISTING CATCH BASIN
	EXISTING GRAVEL AREA
	EXISTING UTILITY POLE
	PROPOSED EDGE OF PAVEMENT
	PROPOSED LANDSCAPING

PLANT SCHEDULE

PLANT KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
DECIDUOUS TREES					
ACE. RUB.	11	ACER RUBRUM	RED SUNSET RED	2.5"-3" CAL.	B&B
BET.	4	BETULA NERPA	HERITAGE RIVER	12"-14" DBH	B&B
QUE. RUB.	14	QUERCUS RUBRA	RED OAK	2.5"-3" CAL.	B&B
EVERGREEN TREES					
TSU. CAN.	2	TSUGA CANADENSIS	CANADIAN HEMLOCK	6"-8" DBH	B&B
SHRUBS					
VB. RHYT.	68	VBURNUM RHYTIDOPHYLLUM	LEATHERLEAF VIBURNUM	5'-6" MIN.	SPACE 8' APART
FOR. INT.	36	FORSYTHIA X INTERMEDIA	FORSYTHIA	5'-6" MIN.	SPACE 8' APART
PERENNIALS, GROUND COVERS, AND GRASSES					
JUN. BAR.	25	JUNIPERUS HORIZONTALIS	BAR HARBOR CREEPING JUNIPER	#2 CANS	CONT. 36" O.C.
LIR. BIG.	25	LIRIOPE MISSOURI	BIG BLUE LILY TURF	1 GAL.	CONT. 18" O.C.
PAN. VIR.	25	PANICUM VIRGATUM	SHENANDOAH SWITCHGRASS	1 GAL.	CONT. 36" O.C.
WET POND PLANTINGS					
BLU. JOI.	84	CALAMAGROSTIS CANADENSIS	BLUE JOINT	1 GAL.	CONT. 36" O.C.
HAR. BUL.	74	SORBUS AULUS	HARDSTEM BULRUSH	1 GAL.	CONT. 36" O.C.
LIZ. TAIL.	71	SAURURUS CERNUUS	LIZARD'S TAIL	1 GAL.	CONT. 36" O.C.
BIORETENTION PLANTINGS					
CA	17	CLETHRA ALNIFOLIA	SUMMERSWEET	18"-24" O.C.	CONT. 36" O.C.
IV	16	ILEX VERTICILLATA	WINTERBERRY	18"-24" O.C.	CONT. 36" O.C.
SC	15	SAMBUCUS CANADENSIS	ELDERBERRY	18"-24" O.C.	CONT. 36" O.C.
EF	12	ERIPATORUM FISULOSUM	JOE PYE WEED	1 GAL.	CONT. 36" O.C.
JE	16	JUNCUS EFFUSUS	COMMON RUSH	1 GAL.	CONT. 36" O.C.

LANDSCAPING PLAN
SCALE: 1"=40'

SCALE



SCALE FEET

REVISION BY DATE DESCRIPTION

2. MM 12/2/21 PER PB MTG & AF COMMENT LETTER

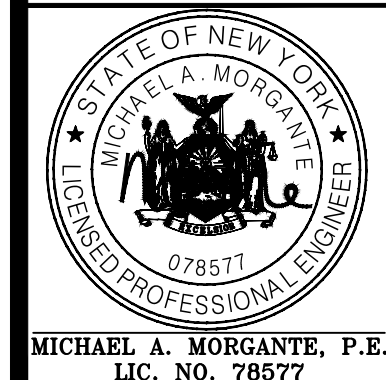
1. MM 9/16/21 PREPARATION OF PRELIMINARY PLANS

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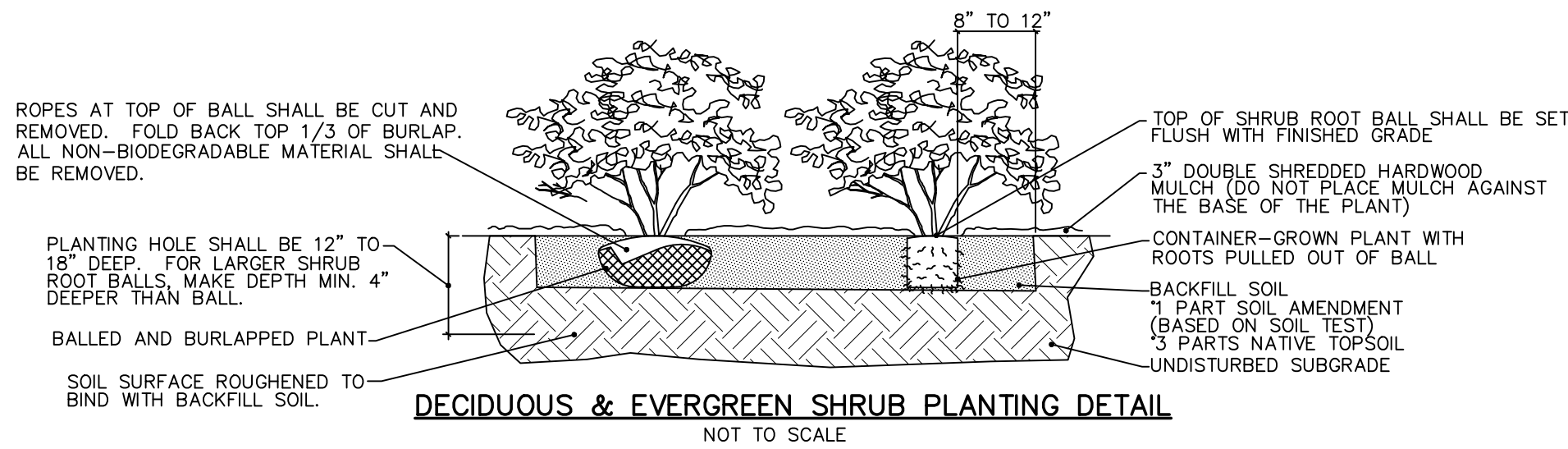
SITE PLAN & LOT LINE COMBINATION FOR
DAVIDSON DRIVE HOLDINGS, LLC
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TOWN OF CHESTER, COUNTY OF ORANGE, NY

LANDSCAPING PLAN

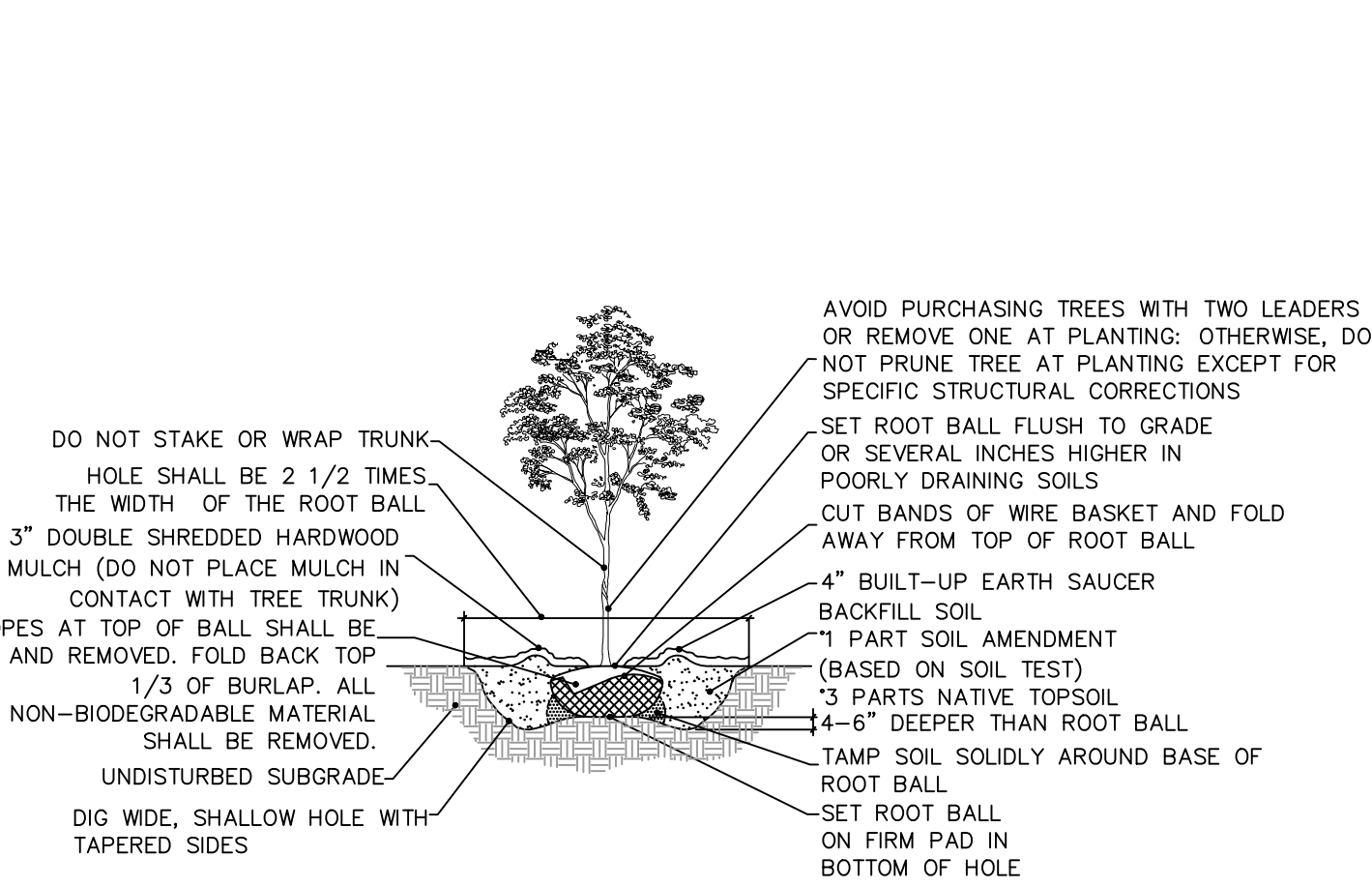
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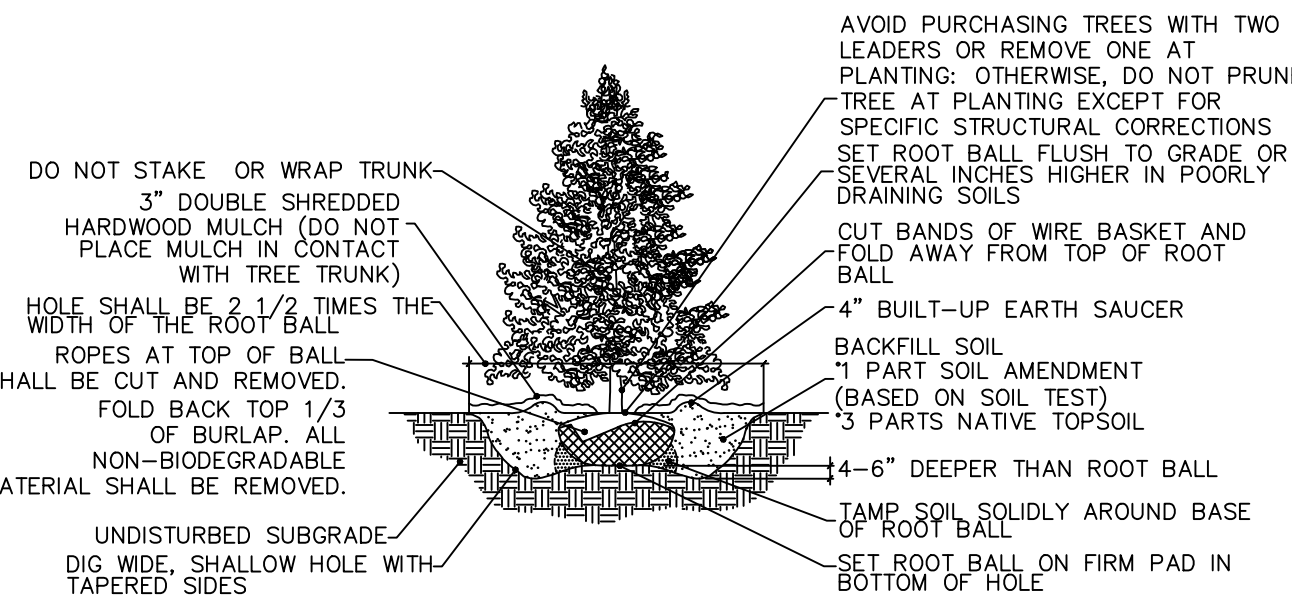
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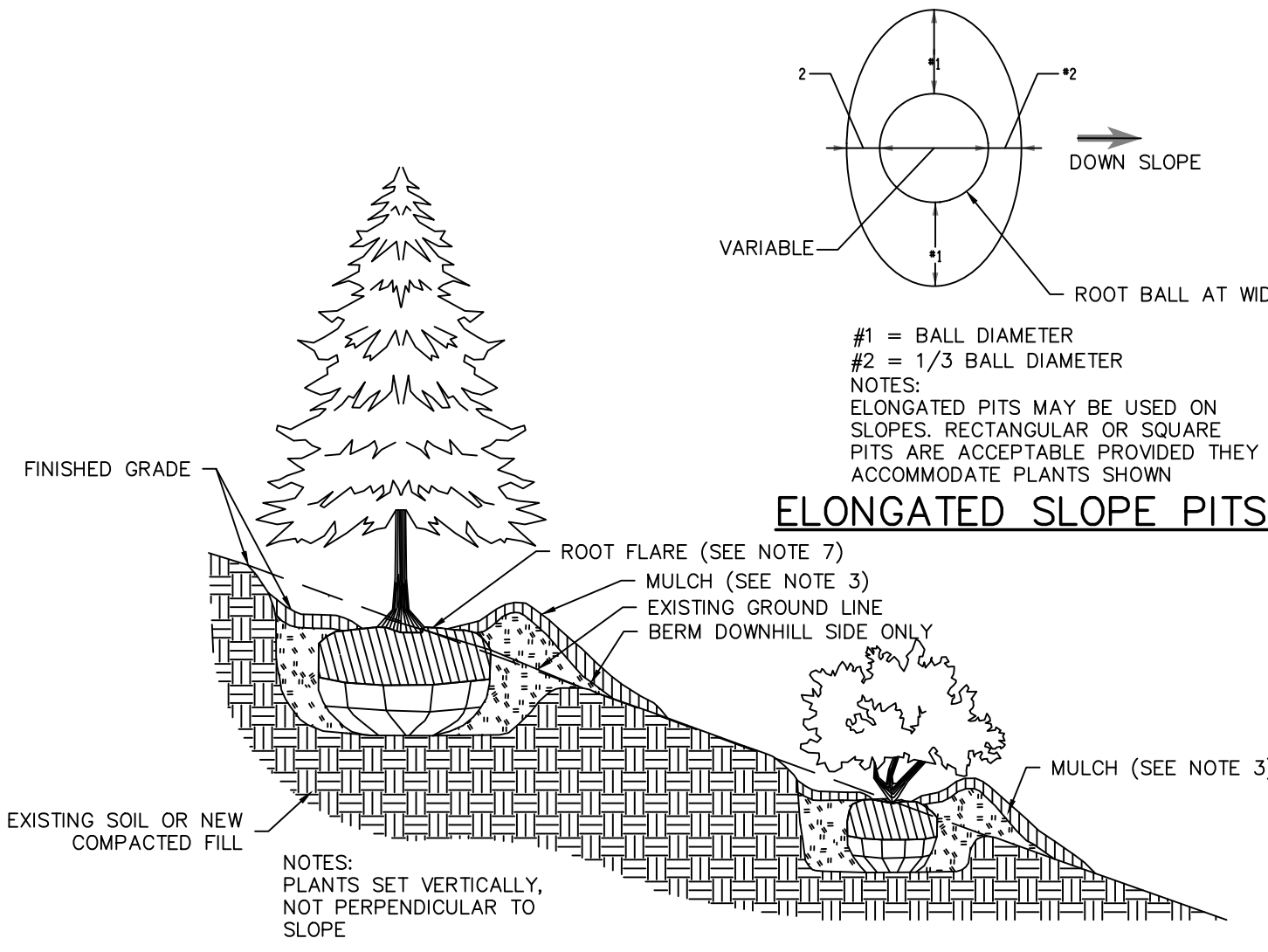
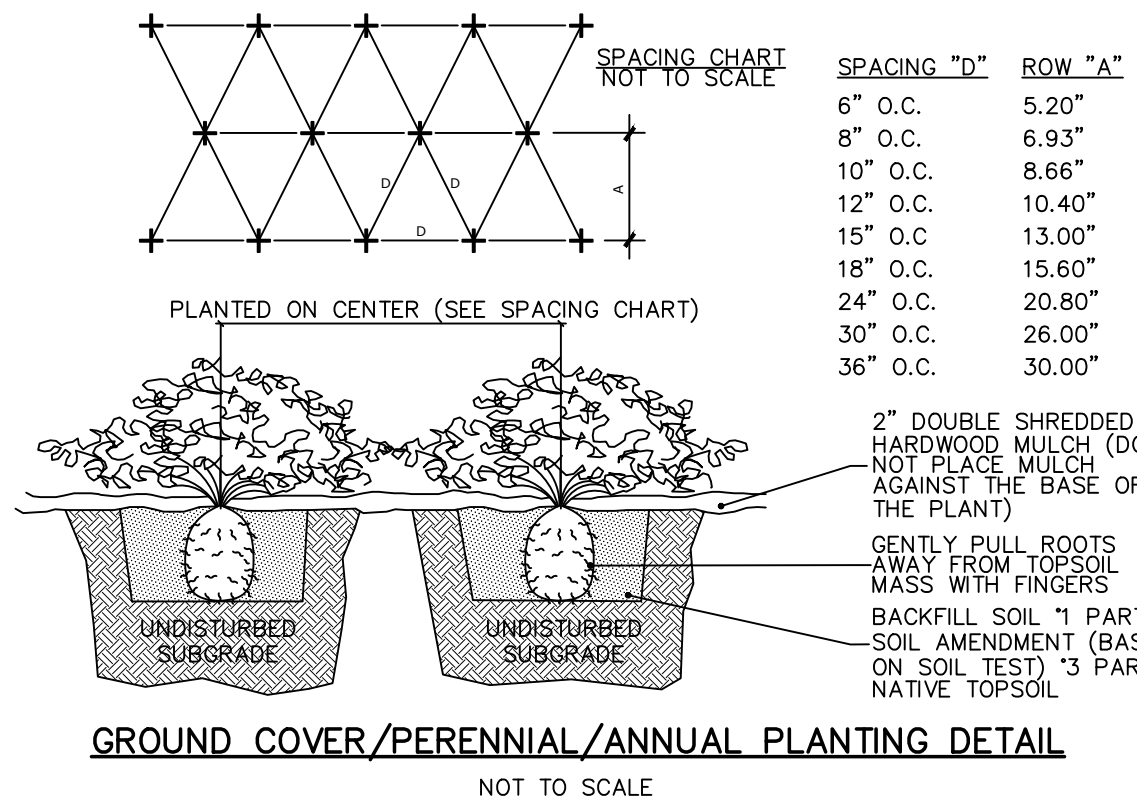
- NOTES:
1. THOROUGHLY SOAK THE GROUND COVER ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.
 2. SOIL AMENDMENTS: MODIFY HEAVY CLAY OR SILT SOILS (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) OR GYPSUM (EXTREMELY SANDY SOILS (MORE THAN 85% SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.
 3. ALL GROUND COVER AREAS SHALL BE TREATED WITH A PRE-EMERGENT PER MANUFACTURER'S SPECIFICATIONS.



- NOTES:
1. FOR CONTAINER-GROWN TREES, USE FINGERS OR SMALL HAND TOOLS TO PULL THE ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL; THEN CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OF THE CONTAINER.
 2. THOROUGHLY SOAK THE TREE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.
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ERNST SEED CO. NATIVE DETENTION AREA SEEDING SPECIFICATIONS (ERNV-1A3):

SWITCHGRASS, 'SHAWNEE' (Panicum virgatum, 'SHAWNEE') REDTOP PANICGRASS, COASTAL PLAIN NC ECOTYPE (Panicum rostratum (P. striatum), COASTAL PLAIN NC ECOTYPE) VIRGINIA WILDFIRE, PA ECOTYPE (Elymus virginicus, PA ECOTYPE) GREEN BURLUSH, PA ECOTYPE (Sorghum atrovirens, PA ECOTYPE) AUTUMN BENTGRASS, PA ECOTYPE (Aegropis perennans, PA ECOTYPE) PATH RYE, PA ECOTYPE (Lolium tenuis, PA ECOTYPE)

1. SOW ABOVE MIX AT A RATE OF 20 LBS./ACRE OR 1/2 LB PER 1,000 S.F.

2. SUPPLEMENT ABOVE MIX WITH A COVER CROP OF GRAIN RYE AT 30 LBS./ACRE.

3. MOW SEEDED AREA ONCE PER YEAR IN LATE SPRING.

PLANT SELECTION

THE ROLE OF PLANTS IN ALL STORM WATER MANAGEMENT FACILITIES IS TO PREVENT EROSION AND SLOW WATER MOVEMENT, HOLD OR CONVERT POLLUTANTS, ENHANCE INFILTRATION AND EVAPOTRANSPIRATION, AND ENCOURAGE WILDLIFE. THE DESIGNER CAN SELECT PLANT SPECIES OR MIXES THAT MEET THE CRITICAL OBJECTIVES AND EXTREME CONDITIONS UNDER WHICH PLANTS MUST SURVIVE. NATIVE GRASSES ESTABLISH RAPIDLY, WITH FIBROUS ROOT SYSTEMS THAT TOLERATE FAST-MOVING WATER. HERBACEOUS SPECIES PLAY THE ROLE OF ADDING AESTHETICS, TEXTURE, AND PROVIDING WILDLIFE FOOD AND HABITAT. WOODY SPECIES ASSIST IN EVAPOTRANSPIRATION, WHILE PREVENTING EROSION.

GENERAL MAINTENANCE

IN ADDITION TO STRUCTURAL MAINTENANCE, SILTATION NEEDS TO BE REMOVED AS NEEDED. PLANTS NEED TO BE TRIMMED BACK TO MAINTAIN AESTHETIC VALUE AND INVASIVE SPECIES NEED TO BE CONTROLLED. CLOSE MOWING OR EXTENSIVE CHEMICAL USE IS NOT CONDUCTIVE TO WATER QUALITY IMPROVEMENT AND WILDLIFE HABITAT.

SITE PREPARATION

INVASIVE SPECIES, PARTICULARLY THOSE THAT TEND TO WET CONDITIONS, SHOULD BE REMOVED OR SPRAYED BEFORE THEY BECOME INCORPORATED INTO THE SITE. NORMAL VEGETATION CAN BE WORKED INTO THE TOPSOIL, WHICH SHOULD BE STOCKPILED UNTIL THE FINAL GRADE HAS BEEN ESTABLISHED, WITH THE ENGINEER'S SPECIFICATIONS AND DIMENSIONS IN HAND. ON-SITE CONSTRUCTION OF THE BERM AND OUTLETS MUST BE EXECUTED CAREFULLY IN ORDER TO MAINTAIN STRUCTURAL INTEGRITY. THE INFILTRATION AND PLANT GROWTH AREAS SHOULD BE LOOSE AND FRABLE, HIGH IN ORGANIC MATTER, AND COMPLETED WITHOUT COMPACTIONS FROM HEAVY EQUIPMENT. BY USING THE 'DIG AND DROP' METHOD, ONE CAN USE AN EXCAVATOR TO DIG AND DROP EACH AREA OF THE BOTTOM SOIL, IN A LOOSE MANNER. AT THIS POINT, ONE CAN INCORPORATE LIME, COMPOSTED LEAVES AND/OR GRASS CLIPPINGS. THE EXCAVATION MACHINE DOES NOT MOVE OVER THE FINISHED SURFACE, THUS AVOIDING UNNECESSARY COMPACTION. NATIVE VEGETATION CAN BE PLANTED OR SEEDS OVER THIS UNLINED, ABSORBENT SURFACE.

SEEDING AND PLANTING METHODS

SEEDING AND PLANTING SHOULD BEGIN IMMEDIATELY UPON COMPLETION OF THE STRUCTURE. WHEN THE SOIL IS STILL FRABLE AND BEFORE INVASIVE WEEDS EMERGE, PLAN SEEDING AND PLANTING BEFORE THE BASIN IS FLOODED, OR ALLOW THE BASIN TO DRAIN TO A FEW INCHES BEFORE SEEDING. BROADCAST SEED EVENLY OVER EACH UNIT BY HAND. SEEDING OR HYDROSEEDING. SEEDING RATES ARE GENERALLY LOW (1/2 LB PER 1,000 SQ FT). THE USE OF A SEED FILLER, I.E., PAM-12, CAN BE USED TO CREATE A MIX OF 10 LB PER 1,000 SQ FT (I.E., 9-1/2 LB OF PAM-12 MIXED WITH 1/2 LB OF SEED), WHICH CAN BE BROADCAST EVENLY OVER THE AREA. BARLEY, OATS, OR RYE CAN PROVIDE TEMPORARY VEGETATION TO PROTECT THE SOIL IN STORM WATER MANAGEMENT FACILITIES UNTIL PERMANENT VEGETATION CAN BE ESTABLISHED. THE USE OF NATIVE SPECIES, I.E., VIRGINIA WILD RICE, CAN CREATE AN INTERMEDIATE VEGETATIVE COVER THAT SUCCEEDS TO NATIVE LONG-TERM VEGETATION. STRAW MULCH OR STRAW COCONUT MATS ARE FREQUENTLY USED TO CONTROL EROSION AND PROTECT EMERGING SEEDLINGS FROM EXTREME TEMPERATURES AND DRYING OUT. MULCH SHOULD BE SPARSE TO ALLOW SUNLIGHT TO REACH THE GROUND. TRANSPLANTED SEEDLINGS AND SHRUBS NEED TEMPORARY WATER UNTIL THEY BECOME WELL ROOTED. IRRIGATION OF SEEDS AREAS IS OF VALUE UNTIL SEEDLINGS BECOME ESTABLISHED.

NORTHEAST PREMIUM WILDFLOWER SEED MIXTURE

SEEDLAND PRODUCT CODE: WEAT-0505 [OR EQUAL]

PLANTING RATE: 5-10 LBS./ACRE OR 0.2/1,000 SQ. FT. (1/2 ACRE OR LESS)

USE DOUBLE RATE IF HYDRO-SEEDING

GENERAL LANDSCAPING NOTES:

REVISED 2/18/2015

1. THE LANDSCAPE CONTRACTOR SHALL FURNISH ALL MATERIALS AND PERFORM ALL WORK IN ACCORDANCE WITH THESE SPECIFICATIONS, APPROVED OR FINAL DRAWINGS, AND INSTRUCTIONS PROVIDED BY THE PROJECT LANDSCAPE DESIGNER, MUNICIPAL OFFICIALS, OR OWNER/OWNER'S REPRESENTATIVE. ALL WORK COMPLETED AND MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH THE INTENTION OF THE SPECIFICATIONS, DRAWINGS, AND INSTRUCTIONS AND EXECUTED WITH THE STANDARD LEVEL OF CARE FOR THE LANDSCAPE INDUSTRY.
2. WORK MUST BE CARRIED OUT ONLY DURING WEATHER CONDITIONS FAVORABLE TO LANDSCAPE CONSTRUCTION AND TO THE HEALTH AND WELFARE OF PLANTS. THE SUITABILITY OF SUCH WEATHER CONDITIONS SHALL BE DETERMINED BY THE PROJECT LANDSCAPE DESIGNER OR GOVERNING MUNICIPAL OFFICIAL.
3. IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR, BEFORE ORDERING OR PURCHASING MATERIALS, TO PROVIDE SAMPLES OF THOSE MATERIALS TO THE PROJECT LANDSCAPE DESIGNER OR GOVERNING MUNICIPAL OFFICIAL FOR APPROVAL, IF SO REQUESTED.
4. IF SAMPLES ARE REQUESTED, THE LANDSCAPE CONTRACTOR IS TO SUBMIT CERTIFICATION TAGS TO IDENTIFY TREES, SHRUBS AND SEED VERIFYING TYPE AND PLANT.
5. UNLESS OTHERWISE AUTHORIZED BY THE PROJECT LANDSCAPE DESIGNER OR GOVERNING MUNICIPAL OFFICIAL, THE LANDSCAPE CONTRACTOR SHALL PROVIDE NOTICE AT LEAST FORTY-EIGHT HOURS (48 HRS.) IN ADVANCE OF THE ANTICIPATED DELIVERY DATE OF ANY PLANT MATERIALS TO THE PROJECT SITE. A LEGIBLE COPY OF THE INVOICE, SHOWING VARIETIES AND SIZES OF MATERIALS INCLUDED FOR EACH SHIPMENT SHALL BE FURNISHED TO THE PROJECT LANDSCAPE DESIGNER OR GOVERNING MUNICIPAL OFFICIAL.
6. THE PROJECT LANDSCAPE DESIGNER OR GOVERNING MUNICIPAL OFFICIAL RESERVES THE RIGHT TO INSPECT AND REJECT PLANTS AT ANY TIME AND AT ANY PLACE.
7. EXCESS SNOW THAT CANNOT BE ACCOMMODATED WITHIN THE SNOW DUMP AREAS MUST BE REMOVED FROM THE SITE.

SOIL PREPARATION AND MULCH NOTES:

1. LANDSCAPE CONTRACTOR SHALL OBTAIN A SOIL TEST OF THE IN-SITU TOPSOIL BY A CERTIFIED SOIL LABORATORY PRIOR TO PLANTING. LANDSCAPE CONTRACTOR SHALL ALLOW FOR A TWO WEEK TURNAROUND TIME FROM SUBMITTAL OF SAMPLE TO NOTIFICATION OF RESULTS.
2. BASED ON SOIL TEST RESULTS, ADJUST THE RATES OF LIME AND FERTILIZER THAT SHALL BE MIXED INTO THE TOP SIX INCHES (6") OF TOPSOIL. THE LIME AND FERTILIZER RATES PROVIDED WITHIN THE "SEED SPECIFICATION" OR "SOO SPECIFICATION" IS APPROXIMATE AND FOR BIDDING PURPOSES ONLY. IF ADDITIONAL AMENDMENTS ARE NECESSARY, ADJUST THE TOPSOIL AS FOLLOWS:
 - MODIFY HEAVY CLAY OR SILT SOILS (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) OR GYPSUM.
 - MODIFY EXTREMELY SANDY SOILS (MORE THAN 85%) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.
3. TOPSOIL SHALL BE FERTILE, FRABLE, NATURAL TOPSOIL OF LOAMING CHARACTER, WITHOUT ADJUNCTURE OF SUBSOIL MATERIAL OBTAINED FROM A WELL-DRAINABLE ARABLE SITE, FREE FROM ALL CLAY, LUMPS, COARSE SANDS, STONES, PLANTS, ROOTS, STICKS, AND OTHER FOREIGN MATERIAL GREATER THAN ONE INCH (1").
4. TOPSOIL SHALL HAVE A PH RANGE OF 5.0-7.0 AND SHALL NOT CONTAIN LESS THAN 6% ORGANIC MATTER BY WEIGHT.
5. OBTAIN TOPSOIL ONLY FROM LOCAL SOURCES OR FROM AREAS HAVING SIMILAR SOIL CHARACTERISTICS TO THAT FOUND AT THE PROJECT SITE.
6. CONTRACTOR SHALL PROVIDE A SIX INCH (6") DEEP LAYER OF TOPSOIL IN ALL PLANTING AREAS. TOPSOIL SHALL BE SPREAD OVER A PREPARED SURFACE IN A UNIFORM LAYER TO ACHIEVE THE DESIRED COMPACTED THICKNESS. THE SPREADING OF TOPSOIL SHALL NOT BE CONDUCTED UNDER MUDDY OR FROZEN SOIL CONDITIONS.
7. UNLESS OTHERWISE NOTED IN THE CONTRACT, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF TOPSOIL AND THE ESTABLISHMENT OF FINE-TUNING WITHIN THE DISTURBED AREA OF THE SITE.
8. LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE SUB-GRADE ELEVATION MEETS THE FINISHED GRADE ELEVATION (LESS THE REQUIRED TOPSOIL), IN ACCORDANCE WITH THE APPROVED OR FINAL GRADING PLAN.
9. ALL LAWN AND PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN AND UNIFORM PLANE WITH NO ABRUPT CHANGE OF SURFACE AS DEPICTED WITHIN THE APPROVED OR FINAL CONSTRUCTION SET UNLESS OTHERWISE DIRECTED BY THE PROJECT LANDSCAPE DESIGNER OR MUNICIPAL OFFICIAL.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER SURFACE AND SUBSURFACE PLANT BED DRAINAGE PRIOR TO THE INSTALLATION OF PLANTINGS. IF POOR DRAINAGE CONDITIONS EXIST, CORRECTIVE ACTION SHALL BE TAKEN PRIOR TO INSTALLATION. ALL PLANTING AND LAWN AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW A FREE FLOW OF SURFACE WATER.
11. DOUBLE SHREDDED HARDWOOD MULCH OR APPROVED EQUAL SHALL BE USED AS A THREE INCH (3") TOP DRESSING IN ALL SHRUB PLANTING BEDS AND AROUND ALL TREES PLANTED BY LANDSCAPE CONTRACTOR. GROUND COVER, PERENNIAL, AND ANNUAL PLANTING BEDS SHALL BE MULCHED WITH A TWO INCH (2") TOP DRESSING.
12. SINGLE TREES OR SHRUBS SHALL BE MULCHED TO AVOID CONTACT WITH TRUNK OR PLANT STEM. MULCH SHALL BE OF SUFFICIENT CHARACTER AS NOT TO BE EASILY DISPLACED BY WIND OR WATER RUNOFF.
13. WHENEVER POSSIBLE, THE SOIL PREPARATION AREA SHALL BE CONNECTED FROM PLANTING TO PLANTING.
14. SOIL SHALL BE LOOSENESS WITH A BACKHOE OR OTHER LARGE COARSE-TILING EQUIPMENT UNLESS THE SOIL IS FROZEN OR EXCESSIVELY WET. TILING THAT PRODUCES LARGE, COARSE CHUNKS OF SOIL IS PREFERABLE TO TILING THAT RESULTS IN FINE GRAINS UNIFORM IN TEXTURE. AFTER THE AREA IS LOOSENED IT SHALL NOT BE DRIVEN OVER BY ANY VEHICLE.
15. APPLY PRE-EMERGENT WEED CONTROL TO ALL PLANT BEDS PRIOR TO MULCHING. ENSURE COMPATIBILITY BETWEEN PRODUCT AND PLANT MATERIAL.

MYCORR - TREE SAYER - A DRY GRANULAR MYCORRHIZAL FUNGI INOCULANT THAT IS MIXED IN THE BACKFILL WHEN PLANTING TREES AND SHRUBS. IT CONTAINS SPORES OF BOTH ECTOMYCORRHIZAL AND VA MYCORRHIZAL FUNGI (VAM), BENEFICIAL RHIZOSPHERE BACTERIA, TERRA-SORB SUPERABSORBENT HYDROGEL TO REDUCE WATER LEACHING, AND SELECTED ORGANIC MICROBIAL NUTRIENTS.

• DIRECTIONS FOR USE: USE 5-6Z PER EACH FOOT DIAMETER OF THE ROOT BALL, OR 3-0Z PER INCH CALIPER. MIX INTO THE BACKFILL WHEN TRANSPLANTING TREES AND SHRUBS. MIX PRODUCT IN A RING-SHAPED VOLUME OF SOIL AROUND THE UPPER PORTION OF THE ROOT BALL, EXTENDING FROM THE SOIL SURFACE TO A DEPTH OF ABOUT 8 INCHES, AND EXTENDING OUT FROM THE ROOT BALL ABOUT 8 INCHES INTO THE BACKFILL. APPLY WATER TO SOIL SATURATION.

• MYCORR - TREE SAYER - IS A TREE AND SHRUB SPORES EXCEPT MYCORRHIZAL FUNGI, AND MOUNTAIN LAUREL, WHICH REQUIRE ENDOO MYCORRHIZAL.

• SOIL PH: THE FUNGUS IN THIS PRODUCT WERE CHOSEN BASED ON THEIR ABILITY TO SURVIVE AND COLONIZE PLANT ROOTS IN A PH RANGE OF 3 TO 9.

• FERTILIZERS: THE USE OF NUTRIENT FERTILIZERS CAN HAVE A BENEFICIAL EFFECT ON THE ROOTS AND PLANT DEVELOPMENT. HOWEVER, THE USE OF NUTRIENT FERTILIZERS IS NOT RECOMMENDED FOR TWO WEEKS AFTER APPLICATION.

• OTHER PESTICIDES: HERBICIDES AND INSECTICIDES DO NOT NORMALLY INTERFERE WITH MYCORRHIZAL FUNGAL DEVELOPMENT, BUT MAY INHIBIT THE GROWTH OF SOME TREE AND SHRUB SPECIES IF NOT USED PROPERLY.

HEALTHY START MACRO TABS 12-8-8

- FERTILIZER TABLETS ARE PLACED IN THE UPPER 4 INCHES OF BACKFILL SOIL WHEN PLANTING TREES AND SHRUBS.
- TABLETS ARE FORMULATED FOR LONG-TERM RELEASE BY SLOW BIODEGRADATION, AND LAST TO 2 YEARS AFTER PLANTING. TABLETS CONTAIN 12-8-8 NPK FERTILIZER, AS WELL AS A MINIMUM OF SEVEN PERCENT (7%) HUMIC ACID BY WEIGHT, MICROBIAL NUTRIENTS DERIVED FROM SEA KELP, PROTEIN BYPRODUCTS, AND YUCCA SCHODDERA, AND A COMPLEMENT OF BENEFICIAL RHIZOSPHERE BACTERIA. THE STANDARD 21 GRAM TABLET IS SPECIFIED HERE. DIRECTIONS FOR USE: FOR PLANTING BALLED & BURLAPPED (B&B) TREES AND SHRUBS, MEASURE THE THICKNESS OF THE TRUNK, AND USE ABOUT 1 TABLET (21-G) PER HALF-INCH. PLACE THE TABLET DIRECTLY NEXT TO THE ROOT BALL, EVENLY DISTRIBUTED AROUND ITS PERIMETER, AT A DEPTH OF ABOUT 4 INCHES.

PLANT MATERIAL GUARANTEE NOTES:

1. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE YEAR (1 YR.) FROM APPROVAL OF LANDSCAPE INSTALLATION BY THE PROJECT LANDSCAPE DESIGNER, MUNICIPAL OFFICIAL, OR OWNER/OWNER'S REPRESENTATIVE. LANDSCAPE CONTRACTOR SHALL SUPPLY THE OWNER WITH A MAINTENANCE BOND IN THE AMOUNT OF 10% OF THE VALUE OF THE LANDSCAPE INSTALLATION WHICH WILL BE RELEASED AT THE CONCLUSION OF THE GUARANTEE PERIOD AND ONCE FINAL ACCEPTANCE HAS BEEN GRANTED BY THE PROJECT LANDSCAPE DESIGNER, MUNICIPAL OFFICIAL, OR OWNER/OWNER'S REPRESENTATIVE.
2. THE LANDSCAPE CONTRACTOR SHALL REMOVE AND REPLACE DYING, DEAD, OR DEFECTIVE PLANT MATERIAL AT HIS EXPENSE. THE LANDSCAPE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS COMPANY'S OPERATIONS.
3. ALL REPLACEMENT PLANTS SPECIES OF THE SAME SPECIES AND SIZE AS SPECIFIED ON THE APPROVED OR FINAL PLANT LIST. REPLACEMENTS RESULTING FROM REMOVAL, LOSS, OR DAMAGE DUE TO OCCUPANCY OF THE PROJECT IN ANY PART, VANDALISM, PHYSICAL DAMAGE BY ANIMALS, VEHICLES, ETC., AND LOSSES DUE TO CURTAILMENT OF WATER BY LOCAL AUTHORITIES SHALL BE APPROVED AND PAID FOR BY THE OWNER.
4. THE CONTRACTOR SHALL INSTRUCT THE OWNER AS TO MAINTENANCE CARE AND MAINTENANCE OF ALL PLANTINGS.
5. THE OWNER SHALL REMOVE AND REPLACE DYING, DEAD, OR DEFECTIVE PLANT MATERIAL ON A YEARLY BASIS AS NEEDED.

PLANT QUALITY AND HANDLING NOTES:

REVISED 2/18/2015

1. ALL PLANT MATERIAL SHALL CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK (ANS Z60.1-2004) OR LATEST REVISION AS PUBLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION.
2. IN ALL CASES, BOTANICAL NAMES LISTED WITHIN THE APPROVED OR FINAL PLANT LIST SHALL TAKE PRECEDENCE OVER COMMON NAMES.
3. ALL PLANTS SHALL BE PLANTED IN THE DIRECTION OF THEIR DEVELOPMENT AND APPEARANCE AS TO BE SUPERIOR IN FORM, NUMBER OF BRANCHES, COMPACTNESS AND SYMMETRY. ALL PLANTS SHALL HAVE A NORMAL HABIT OR SOUND, HEALTHY, VIGOROUS PLANTS WITH WELL DEVELOPED ROOT SYSTEM. PLANTS SHALL BE FREE OF DISEASE, INSEST PESTS, EGGS OR LARVAE.
4. PLANTS SHALL NOT BE PRUNED BEFORE DELIVERY. TREES WITH ABRASION OF THE BARK, SUNSCALDS, DISFIGURING KNOTS OR FRESH CUTS OF LIMBS OVER ONE AND ONE-FOURTH INCHES (1-1/4") WHICH HAVE NOT COMPLETELY CALLOUSED PERHA BE REJECTED.
5. ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY AND SHALL HAVE A NORMAL HABIT OF GROWTH AND BE LEGALLY TAGGED WITH THE PROPER NAME AND SIZE.
6. THE ROOT SYSTEM OF EACH PLANT SHALL BE WELL PROVIDED WITH FIBROUS ROOTS. ALL PARTS SHALL BE SOUND, HEALTHY, VIGOROUS, WELL-BRANCHED AND DENSELY FOLIATED WHEN IN LEAF.
7. ALL PLANTS DESIGNATED BALL AND BURLAP (B&B) MUST BE MOVED WITH THE ROOT SYSTEM AS SOLID UNITS WITH BALLS OF EARTH FIRMLY WRAPPED WITH BURLAP. THE DIAMETER AND DEPTH OF THE BALLS OF EARTH MUST BE SUFFICIENT TO ENCOMPASS THE FIBROUS ROOT FEEDING SYSTEMS NECESSARY FOR THE HEALTHY DEVELOPMENT OF THE PLANT. NO PLANT SHALL BE ACCEPTED WHEN THE BALL OF EARTH SURROUNDING ITS ROOT SYSTEM IS CUT OR DAMAGED. ALL THINE IS TO BE CUT FROM AROUND THE TRUNK AND ALL BURLAP IS TO BE REMOVED.
8. PLANTS TRANSPORTED TO THE PROJECT IN OPEN VEHICLES SHALL BE COVERED WITH TAPPS OR OTHER SUITABLE COVERS SECURELY FASTENED TO THE BODY OF THE VEHICLE TO PREVENT INJURY TO THE TREES. IF TREATED BURLAP IS USED, ALL THINE IS TO BE CUT FROM AROUND THE TRUNK AND ALL BURLAP IS TO BE REMOVED.
9. ALL PLANTS TRANSPORTED TO THE PROJECT IN OPEN VEHICLES SHALL BE COVERED WITH TAPPS OR OTHER SUITABLE COVERS SECURELY FASTENED TO THE BODY OF THE VEHICLE TO PREVENT INJURY TO THE TREES. IF TREATED BURLAP IS USED, ALL THINE IS TO BE CUT FROM AROUND THE TRUNK AND ALL BURLAP IS TO BE REMOVED.
10. LANDSCAPE CONTRACTOR SHALL MAKE BEST EFFORT TO INSTALL PLANTINGS ON THE SAME DAY AS DELIVERY. IF PLANTS ARE NOT PLANTED IMMEDIATELY ON SITE, PROPER CARE SHALL BE TAKEN TO PLACE THE PLANTINGS IN PARTIAL SHADE WHEN POSSIBLE. THE ROOT BALL SHALL BE KEPT MOST AT ALL TIME AND COVERED WITH MOISTENED MULCH OR ACID WOODS MOISTURE. PROPER IRRIGATION SHALL BE SUPPLIED SO AS TO NOT ALLOW THE ROOT BALL TO DRY OUT. PLANTINGS SHALL BE UNITED AND PROPER SPACING SHALL BE ALLOTTED FOR AIR CIRCULATION AND TO PREVENT DISEASE, WILTING, AND LEAF LOSS.
11. PLANTS THAT REMAIN UNPLANTED FOR A PERIOD OF TIME GREATER THAN THREE (3) DAYS SHALL BE HEALED IN WITH TOPSOIL OR MULCH AND WATERED AS REQUIRED TO PRESERVE ROOT MOISTURE.
12. PLANTS WITH INJURED ROOTS OR BRANCHES SHALL BE PRUNED PRIOR TO PLANTING UTILIZING CLEAN, SHARP TOOLS. ONLY DISEASED OR INJURED PLANTS SHALL BE REMOVED.
13. IF ROCK OR OTHER UNDERGROUND OBSTRUCTION IS ENCOUNTERED, THE LANDSCAPE DESIGNER RESERVES THE RIGHT TO RELOCATE OR ENLARGE PLANTING PITS OR DELETE PLANT MATERIAL FROM THE CONTRACT.
14. IF PLANTS ARE PROPOSED WITHIN SIGHT TRIANGLES, TREES SHALL BE LIMITED AND MAINTAINED TO A HEIGHT OF SEVEN FEET (7') ABOVE GRADE AND SHRUBS, GROUND COVER, PERENNIALS, AND ANNUALS SHALL BE MAINTAINED TO A HEIGHT NOT TO EXCEED TWO FEET (2') ABOVE GRADE UNLESS OTHERWISE NOTED OR SPECIFIED BY THE GOVERNING MUNICIPALITY OR AGENCY.
15. INSTALLATION SHALL OCCUR DURING THE FOLLOWING SEASONS:
 - PLANTS (MARCH 15 - DECEMBER 15)
 - LAWNS (MARCH 15 - JUNE 15 OR SEPTEMBER 1 - DECEMBER 1)
16. THE FOLLOWING TREES ARE SUSCEPTIBLE TO TRANSPORT SHOCK AND SHALL NOT BE PLANTED DURING THE FALL SEASON (STARTING SEPTEMBER 15):
 - ABIES CONCOLOR
 - ACER BURGESSIANUM
 - ACER FREEMANI
 - ACER RUBRUM
 - ACER SACCHARINUM
 - BETULA VARIETIES
 - CARPINUS VARIETIES
 - CEDRUS DEODARA
 - CELTIS VARIETIES
 - CORNUS VARIETIES
 - CERIS CANADENSIS
 - CRATAEGUS VARIETIES
 - ELAEAGNUS VARIETIES
 - FRAXINUS VARIETIES
 - ILIC VARIETIES
 - QUERCUS VARIETIES (NOT Q. PALUSTRIS)
 - SAULX MERRILLI VARIETIES
 - SORBUS VARIETIES
 - TAXODIUM VARIETIES
 - TAXUS VARIETIES
 - ULMUS VARIETIES
 - YUCCA VARIETIES

17. IF A PROPOSED PLANT IS UNAVAILABLE OR ON THE FALL DROPPING HAZARD LIST, AN EQUIVALENT SPECIES OF THE SAME SIZE MAY BE REQUESTED FOR SUBSTITUTION OF THE ORIGINAL PLANT. ALL SUBSTITUTIONS SHALL BE APPROVED BY THE PROJECT LANDSCAPE DESIGNER, MUNICIPAL OFFICIAL, PRIOR TO ORDERING AND INSTALLATION.
18. DURING THE COURSE OF CONSTRUCTION/PLANT INSTALLATION, EXCESS AND WASTE MATERIALS SHALL BE CONTINUOUSLY AND PROMPTLY REMOVED AT THE END OF EACH WORK DAY. ALL DEBRIS, MATERIALS, AND TOOLS SHALL BE PROPERLY STORED, STOCKPILED OR DISPOSED OF AND ALL PAVED AREAS SHALL BE CLEANED.
19. THE LANDSCAPE CONTRACTOR SHALL DISPOSE OF ALL RUBBISH AND EXCESS SOIL AT HIS EXPENSE TO AN OFF-SITE LOCATION AS APPROVED BY THE LOCAL MUNICIPALITY.
20. A 90-DAY MAINTENANCE PERIOD SHALL BEGIN IMMEDIATELY AFTER ALL PLANTS HAVE BEEN SATISFACTORILY INSTALLED.
21. MAINTENANCE WHICH PLANTS ARE BEING LIMITED TO REPLACING MULCH THAT HAS BEEN DISPLACED BY EROSION OR OTHER MEANS, REPAIRING AND RESHAPING WATER RINGS OR SAUCERS, MAINTAINING STAKES AND GUYS IF ORIGINALLY REQUIRED, WATERING WHEN NEEDED OR DIRECTED, WEEDING, PRUNING, SPRAYING, FERTILIZING, MOWING THE LAWN, AND PERFORMING ANY OTHER WORK REQUIRED TO KEEP THE PLANTS IN A HEALTHY CONDITION.
22. MOW ALL GRASS AREAS AT REGULAR INTERVALS TO KEEP THE GRASS HEIGHT FROM EXCEEDING THREE INCHES (3"). MOWING SHALL BE PERFORMED ONLY WHEN GRASS IS DRY. MOWER BLADE SHALL BE SET TO REMOVE NO MORE THAN ONE THIRD (1/3) OF THE GRASS LENGTH. WHEN THE AMOUNT OF GRASS IS HEAVY, IT SHALL BE REMOVED TO PREVENT DESTRUCTION OF THE UNDERLYING TURF. MOW GRASS AREAS IN SUCH A MANNER AS TO PREVENT CLIPPINGS FROM BLOWING ON PAVED AREAS, AND SIDEWALKS. CLEANUP AFTER MOWING SHALL INCLUDE SHEEPING OR BLOWING OF PAVED AREAS AND SIDEWALKS TO CLEAR THEM FROM MOWING DEBRIS.
23. GRASS AREAS DAMAGED DURING THE PROCESS OF THE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, WHO SHALL RESTORE THE DISTURBED AREAS TO A CONDITION SATISFACTORY TO THE PROJECT LANDSCAPE DESIGNER, MUNICIPAL OFFICIAL, OR OWNER/OWNER'S REPRESENTATIVE. THIS MAY INCLUDE FILLING TO GRADE, FERTILIZING, SEEDING, AND MULCHING.
24. SHOULD THE OWNER REQUIRE MAINTENANCE BEYOND THE STANDARD 90-DAY MAINTENANCE PERIOD, A SEPARATE CONTRACT SHALL BE ESTABLISHED.
25. LANDSCAPE CONTRACTOR SHALL WATER NEW PLANTINGS FROM TIME OF INSTALL AND THROUGHOUT REQUIRED 90-DAY MAINTENANCE PERIOD UNTIL PLANTS ARE ESTABLISHED. IF ON-SITE WATER IS NOT AVAILABLE AT THE PROJECT LOCATION, THE LANDSCAPE CONTRACTOR SHALL FURNISH IT BY MEANS OF A WATERING TRUCK OR OTHER ACCEPTABLE MANNER.
26. THE QUANTITY OF WATER APPLIED AT ONE TIME SHALL BE SUFFICIENT TO PENETRATE THE SOIL TO A MINIMUM OF EIGHT INCHES (8") IN SHRUB BEDS AND SIX INCHES (6") IN TURF AREAS AT A RATE WHICH WILL PREVENT SATURATION OF THE SOIL.
27. IF AN AUTOMATIC IRRIGATION SYSTEM HAS BEEN INSTALLED, IT CAN BE USED FOR WATERING PLANT MATERIAL. HOWEVER, FAILURE OF THE SYSTEM DOES NOT ELIMINATE THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY OF PLANT HEALTH AND ESTABLISHMENT.

LAWN (SEED OR SOO) NOTES:

1. SEED MIXTURE SHALL BE FRESH, CLEAN, NEW CROP SEED. SOO SHALL BE STRONGLY ROOTED, UNIFORM IN THICKNESS, AND FREE OF WEEDS, DISEASE, AND PESTS.
2. SHRUB OR SOO SHALL BE SET IN THE SAME MANNER AS PLANTS. SEED OR SOO SHALL BE COMPOSED OF THE MIX OR BLENDED WITH THE PROVIDED "SEED SPECIFICATION" OR "SOO SPECIFICATION."
3. REFERENCE LANDSCAPE PLAN FOR AREAS TO BE SEED OR LAID WITH SOO.
4. SEEDING SHALL BE DONE IMMEDIATELY AFTER THE SEEDING OF PLANTS, IF THE SEASON OF THE PROJECT COMPLETION PROHIBITS PERMANENT STABILIZATION, TEMPORARY STABILIZATION SHALL BE PROVIDED IN ACCORDANCE WITH THE "TEMPORARY SEEDING SPECIFICATION".
5. PROTECT NEW LAWN AREAS AGAINST TRESPASSING WHILE THE SEED IS GERMINATING. FURNISH AND INSTALL FENCES, SIGNS, BARRIERS OR ANY OTHER NECESSARY TEMPORARY PROTECTIVE DEVICES. DAMAGE RESULTING FROM TRESPASS, EROSION, WASHOUT, SETTLEMENT OR OTHER CAUSES SHALL BE REPAIRED BY THE LANDSCAPE CONTRACTOR AT HIS EXPENSE. REMOVE ALL FENCES, SIGNS, BARRIERS OR OTHER TEMPORARY PROTECTIVE DEVICES ONCE LAWN HAS BEEN ESTABLISHED.

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SCALE
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FEET

REVISION	BY	DATE	DESCRIPTION
1.	MM	12/2/21	PER PB, MTG & AF COMMENT LETTER
2.	MM	9/16/21	PREPARATION OF PRELIMINARY PLANS

THIS SHEET IS NOT VALID WITHOUT ALL OF THE SHEETS THAT COMPRISE THE SET

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SITE PLAN & LOT LINE COMBINATION FOR DAVIDSON DRIVE HOLDINGS, LLC
LAKE STATION ROAD
TOWN OF CHESTER, COUNTY OF ORANGE, NY

LANDSCAPING DETAILS

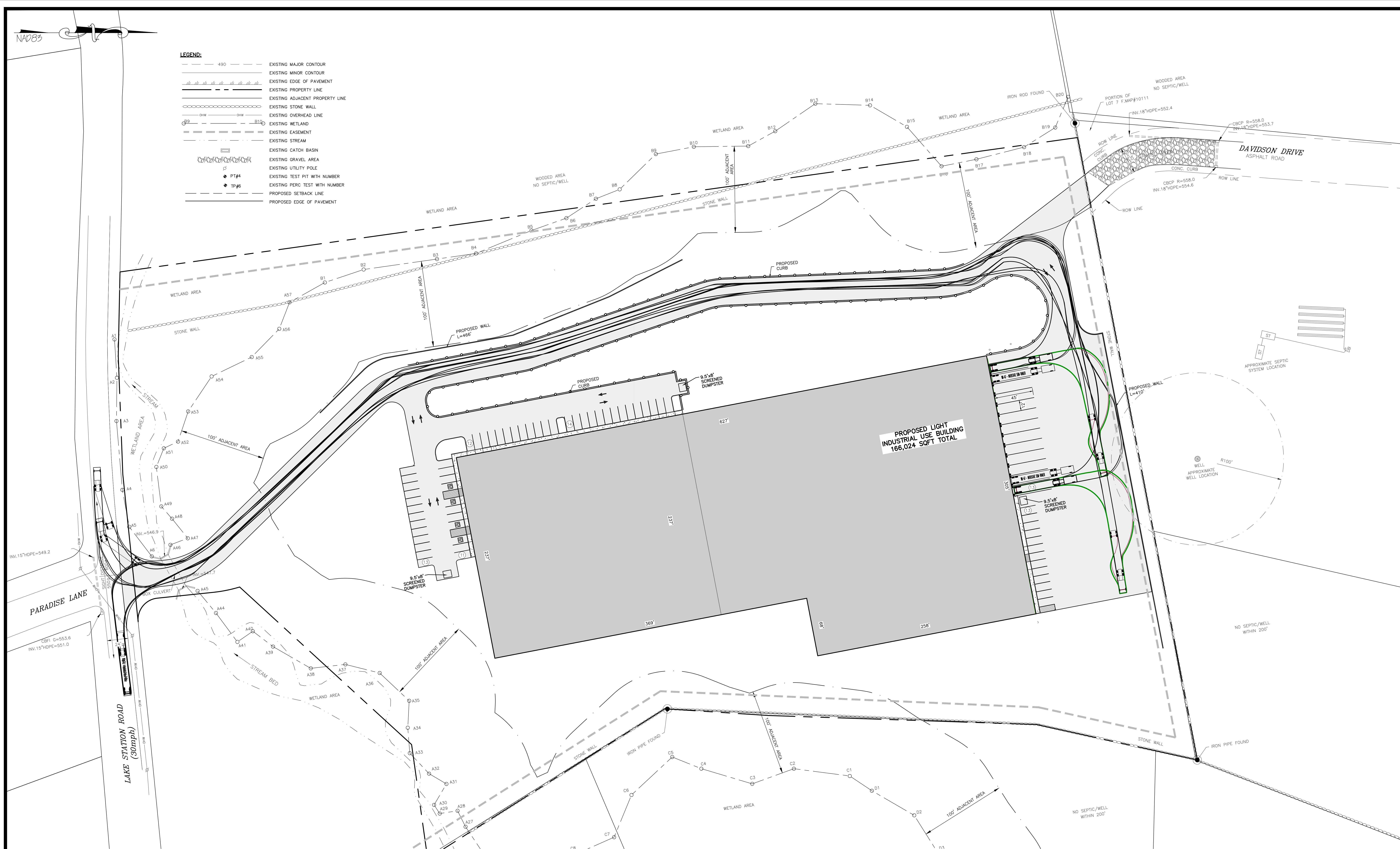
Michael A. Morgante, P.E.
Lic. No. 78577

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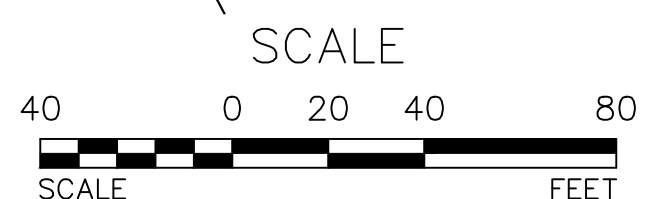
NAD83

LEGEND:

- 490 --- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING EDGE OF PAVEMENT
- EXISTING PROPERTY LINE
- EXISTING ADJACENT PROPERTY LINE
- EXISTING STONE WALL
- EXISTING OVERHEAD LINE
- EXISTING WETLAND
- EXISTING EASEMENT
- EXISTING STREAM
- EXISTING CATCH BASIN
- EXISTING GRAVEL AREA
- EXISTING UTILITY POLE
- PT#4 EXISTING TEST PIT WITH NUMBER
- TP#6 EXISTING PERC TEST WITH NUMBER
- PROPOSED SETBACK LINE
- PROPOSED EDGE OF PAVEMENT



TRUCK TURNING DIAGRAM
SCALE: 1"=40'



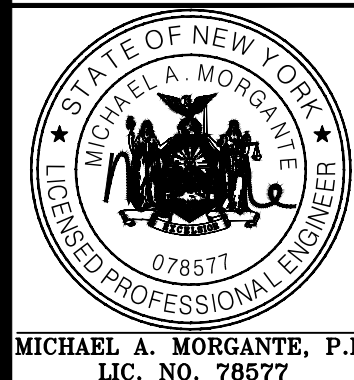
TOWN OF CHESTER PLANNING BOARD APPROVAL



REVISION	BY	DATE	DESCRIPTION
3.	MM	12/2/21	PER PB MTG & AF COMMENT LETTER
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SITE PLAN & LOT LINE COMBINATION FOR
DAVIDSON DRIVE HOLDINGS, LLC
LAKE STATION ROAD
TOWN OF CHESTER, COUNTY OF ORANGE, NY

TRUCK TURNING DIAGRAM

JOB#:
20-030
SCALE:
AS NOTED
DATE:
2-17-21
DRAWN:
MM
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MM
SHEET NO.
15 OF 20

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NAD83



LEGEND:

- 490 ——— EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- ||||| EXISTING EDGE OF PAVEMENT
- — — — EXISTING PROPERTY LINE
- — — — EXISTING ADJACENT PROPERTY LINE
- — — — EXISTING STONE WALL
- — — — EXISTING OVERHEAD LINE
- — — — EXISTING WETLAND
- — — — EXISTING EASEMENT
- — — — EXISTING STREAM
- — — — EXISTING CATCH BASIN
- — — — EXISTING GRAVEL AREA
- — — — EXISTING UTILITY POLE
- — — — PROPOSED EDGE OF PAVEMENT

PROPOSED LIGHT
INDUSTRIAL USE BUILDING
166,024 SQFT TOTAL

PARADISE LANE

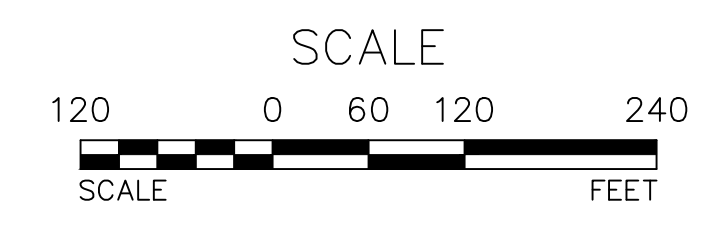
LAKE STATION ROAD
(30mph)

LAKE STATION ROAD
(30mph)

BELLVALE ROAD

BELLVALE ROAD

TOWN OF CHESTER PLANNING BOARD APPROVAL



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MICHAEL A. MORGANTE, P.E.
LIC. NO. 78577

SITE PLAN & LOT LINE COMBINATION FOR
DAVIDSON DRIVE HOLDINGS, LLC
LAKE STATION ROAD
TOWN OF CHESTER, COUNTY OF ORANGE, NY

TRUCK TURNING DIAGRAM –
INTERSECTION 1

JOB#:
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TRUCK TURNING DIAGRAM – INTERSECTION 1
SCALE: 1"=120'

NAD83



LAKE STATION ROAD
(30mph)

KINGS HIGHWAY

DAVIDSON DRIVE

PARADISE LANE

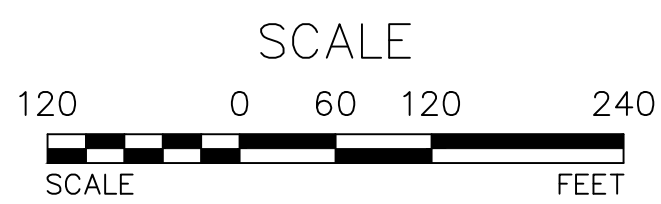
PROPOSED LIGHT
INDUSTRIAL USE BUILDING
166,024 SQFT TOTAL

TRUCK TURNING DIAGRAM - INTERSECTION 2

SCALE: 1"=120'

LEGEND:

- 490 --- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING EDGE OF PAVEMENT
- EXISTING PROPERTY LINE
- EXISTING ADJACENT PROPERTY LINE
- EXISTING STONE WALL
- OHW --- OHW EXISTING OVERHEAD LINE
- B10 EXISTING WETLAND
- EXISTING EASEMENT
- EXISTING STREAM
- EXISTING CATCH BASIN
- EXISTING GRAVEL AREA
- EXISTING UTILITY POLE
- PROPOSED EDGE OF PAVEMENT



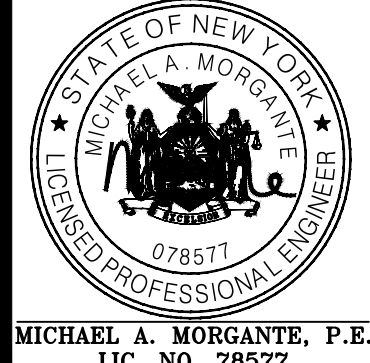
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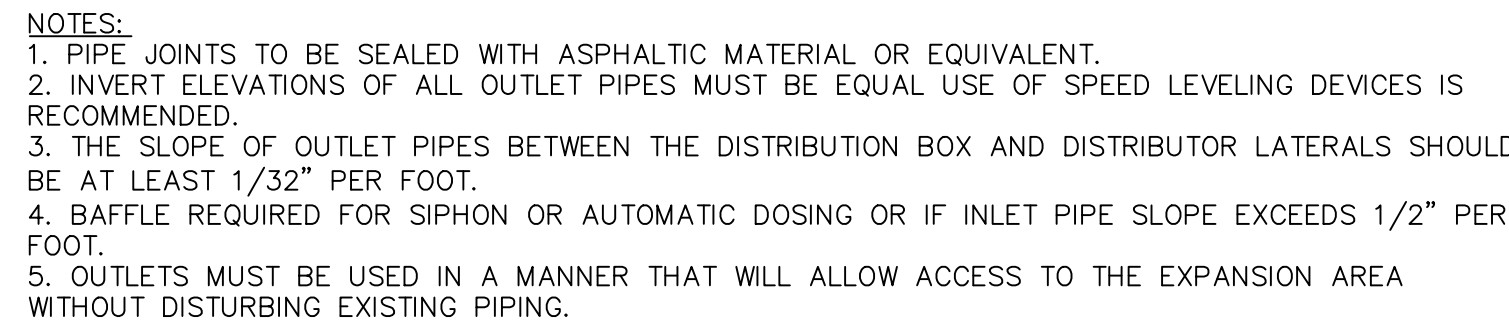
SITE PLAN & LOT LINE COMBINATION FOR
DAVIDSON DRIVE HOLDINGS, LLC
LAKE STATION ROAD
TOWN OF CHESTER, COUNTY OF ORANGE, NY

TRUCK TURNING DIAGRAM -
INTERSECTION 2

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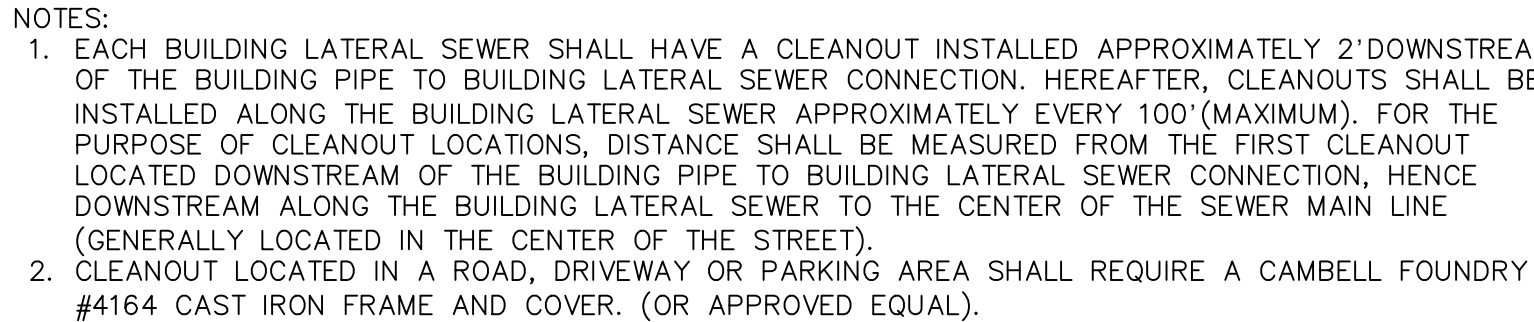


NOT TO SCALE

1. WHEN IT IS IMPOSSIBLE TO MAINTAIN PROPER HORIZONTAL OR VERTICAL SEPARATION AS SHOWN, THE SEWER SHALL BE DESIGNED AND CONSTRUCTED EQUAL TO THE WATER MAIN, AND SHALL BE PRESSURE TESTED TO ASSURE WATERTIGHTNESS PRIOR TO BACKFILLING.
2. A FULL LENGTH OF BOTH PIPES CROSSING MUST BE CENTERED AT THE CROSSING.
3. BEDDING MATERIAL SHALL BE INCREASED TO 12" BELOW THE LENGTH OF WATER MAIN PIPE FOR 10' ON EITHER SIDE OF THE CROSSING.
4. TWO LAYERS OF CAUTION TRACER TAPE SHALL BE PLACED 18" MINIMUM ABOVE STORM SEWER MAINS

1. SEPARATION DISTANCE BETWEEN WATER MAINS AND STORM/SEWER MAINS SHALL BE 10' HORIZONTAL AND 18" AT CROSSINGS. THESE SEPARATION DISTANCES MUST BE MAINTAINED UNLESS SPECIFICALLY SHOWN AND INDICATED OTHERWISE ON THE PLANS. THE PREFERRED CROSSING OPTION IS FOR THE WATER MAIN TO BE CONSTRUCTED ABOVE STORM/SEWER MAINS.
2. SEWER MAIN INCLUDES SEWER LATERALS AND STORM DRAIN.
3. WATER MAIN INCLUDES WATER SERVICE LATERALS.
4. DEFLECT WATER MAIN IN AN ARC BENEATH THE SEWER/STORM LINE. DO NOT USE FITTINGS TO DEFLECT THE WATER MAIN.

1. FULL LENGTH OF BOTH PIPES CROSSING MUST BE CENTERED AT THE CROSSING SO THAT PIPE JOINTS WILL BE AS FAR FROM EACH OTHER AS POSSIBLE (10' MIN.).
2. CONTRACTOR SHALL PROVIDE STRUCTURAL SUPPORT FOR EXISTING WATER MAIN OVER THE ENTIRE TRENCH WIDTH TO PREVENT DAMAGE TO THE WATER MAIN.
3. WATER TIGHT JOINTS WHERE WATERLINES ARE CROSSED ABOVE OR BELOW.



NOT TO SCALE



ELJEN IN-DRAIN SECTION

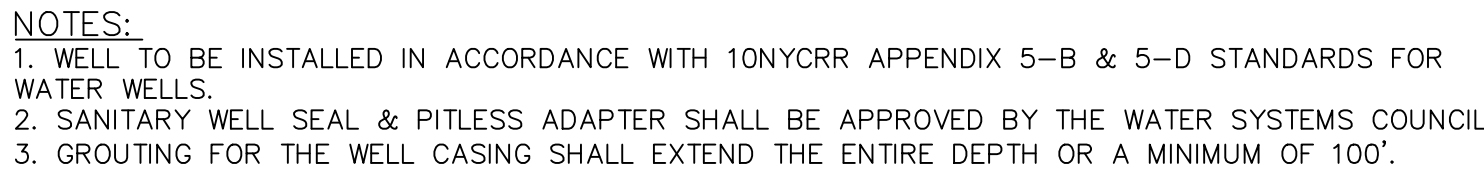
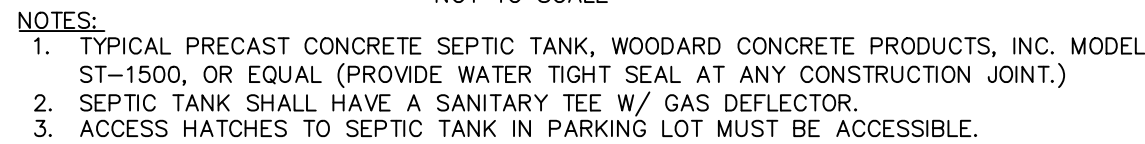
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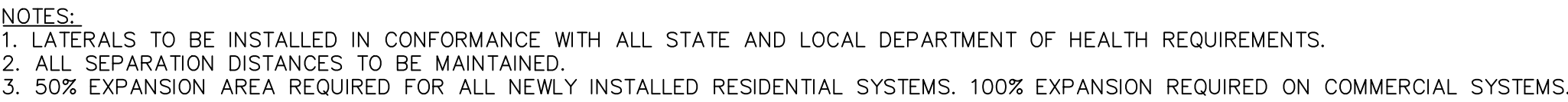


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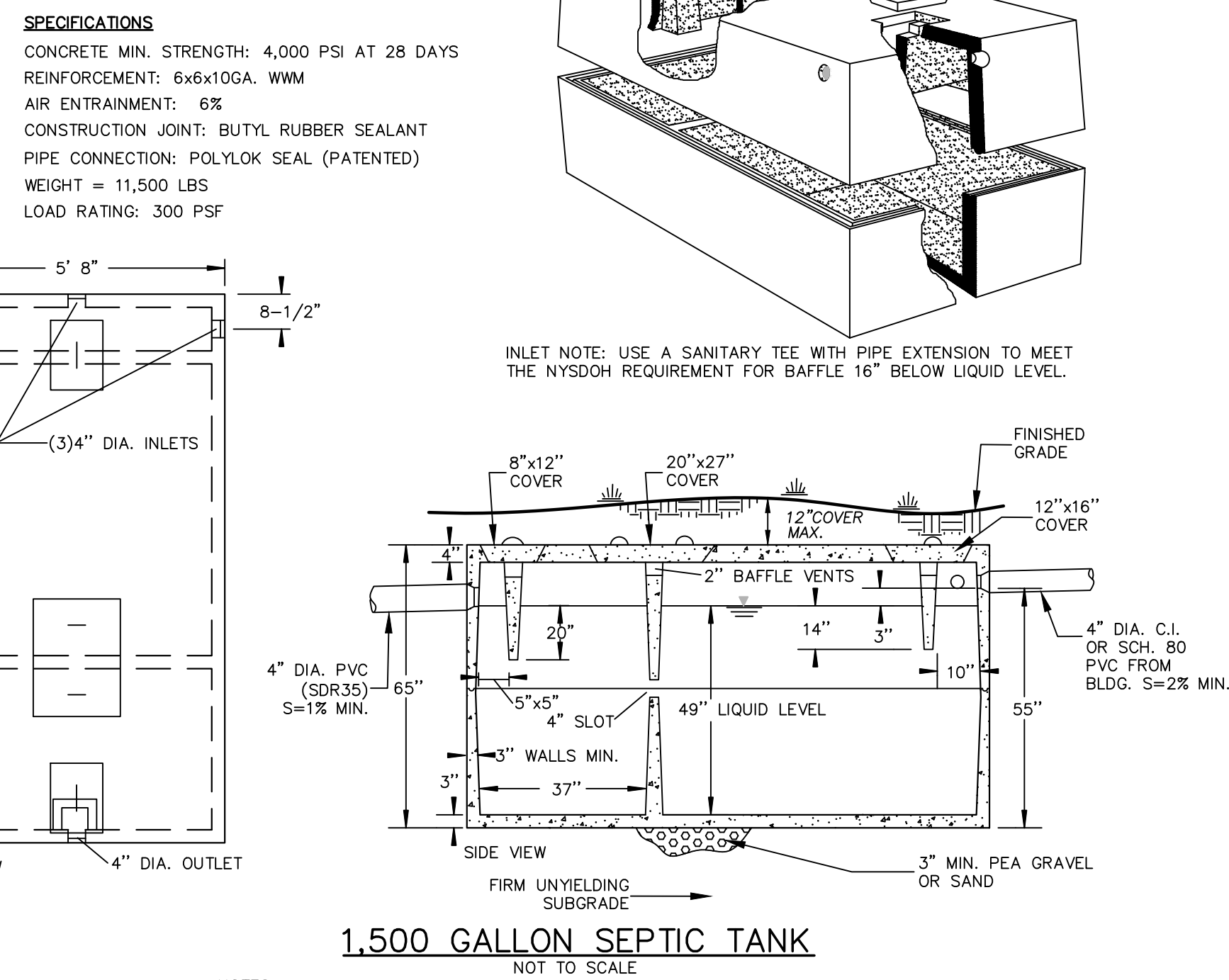


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ADDITIONAL WELL NOTES:
1. THE LISTED WATER WELL SEPARATION DISTANCES FROM CONTAMINANT SOURCES SHALL BE INCREASED BY 50% WHENEVER AQUIFER WATER ENTERS THE WATER WELL AT LESS THAN 50 FEET BELOW GRADE. IF A 50% INCREASE IN SEPARATION DISTANCES CAN NOT BE ACHIEVED, THEN THE GREATEST POSSIBLE INCREASE IN SEPARATION DISTANCE SHALL BE PROVIDED WITH SUCH ADDITIONAL MEASURES AS NEEDED TO PREVENT CONTAMINATION. SEE ALSO NOTE 1 TO TABLE 1 OF APPENDIX 5-D.



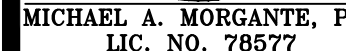
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3.	MM	9/16/21	PREPARATION OF PRELIMINARY PLANS
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1.	MM	3/23/21	ROAD LAYOUT REVISION PER PB MTG.

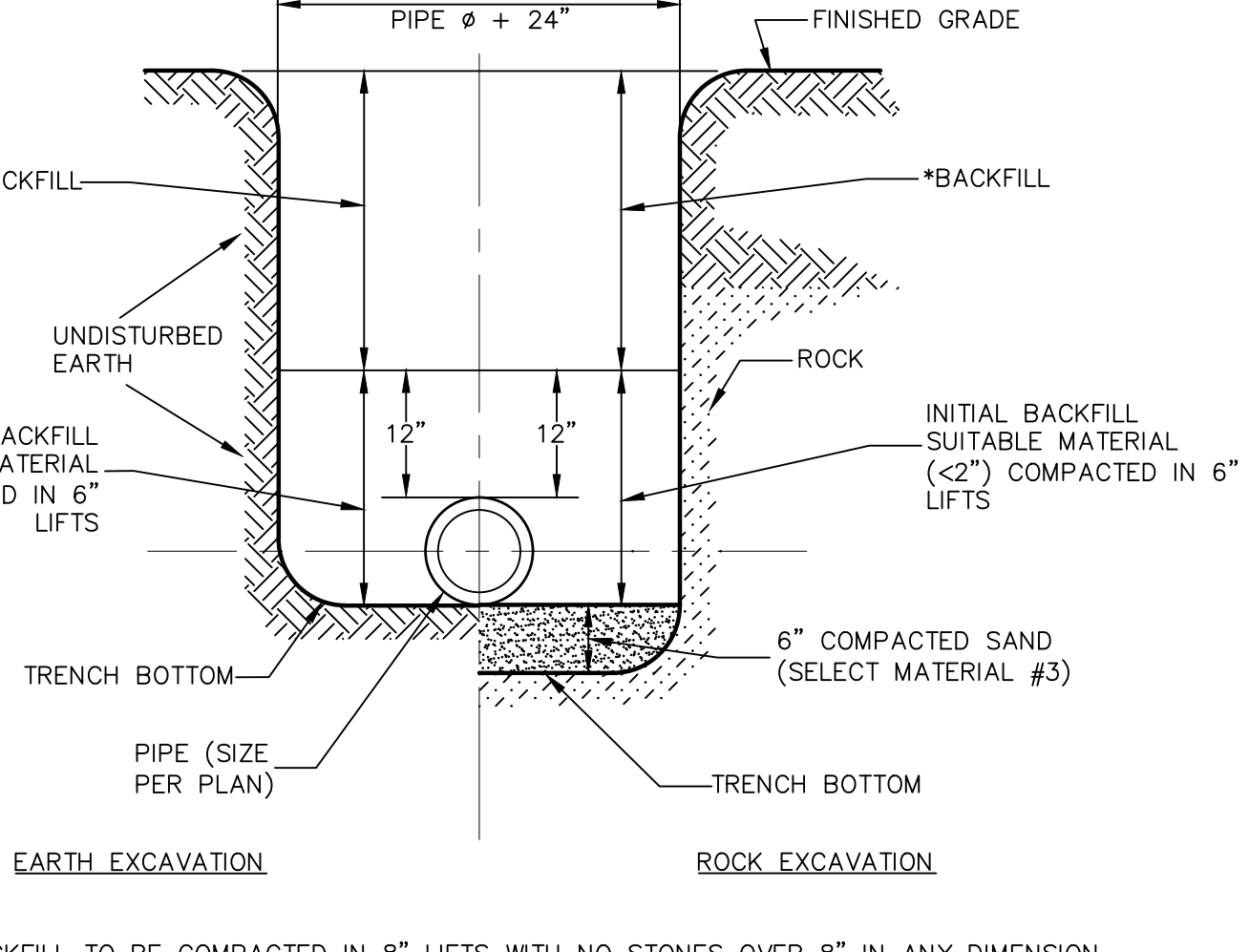
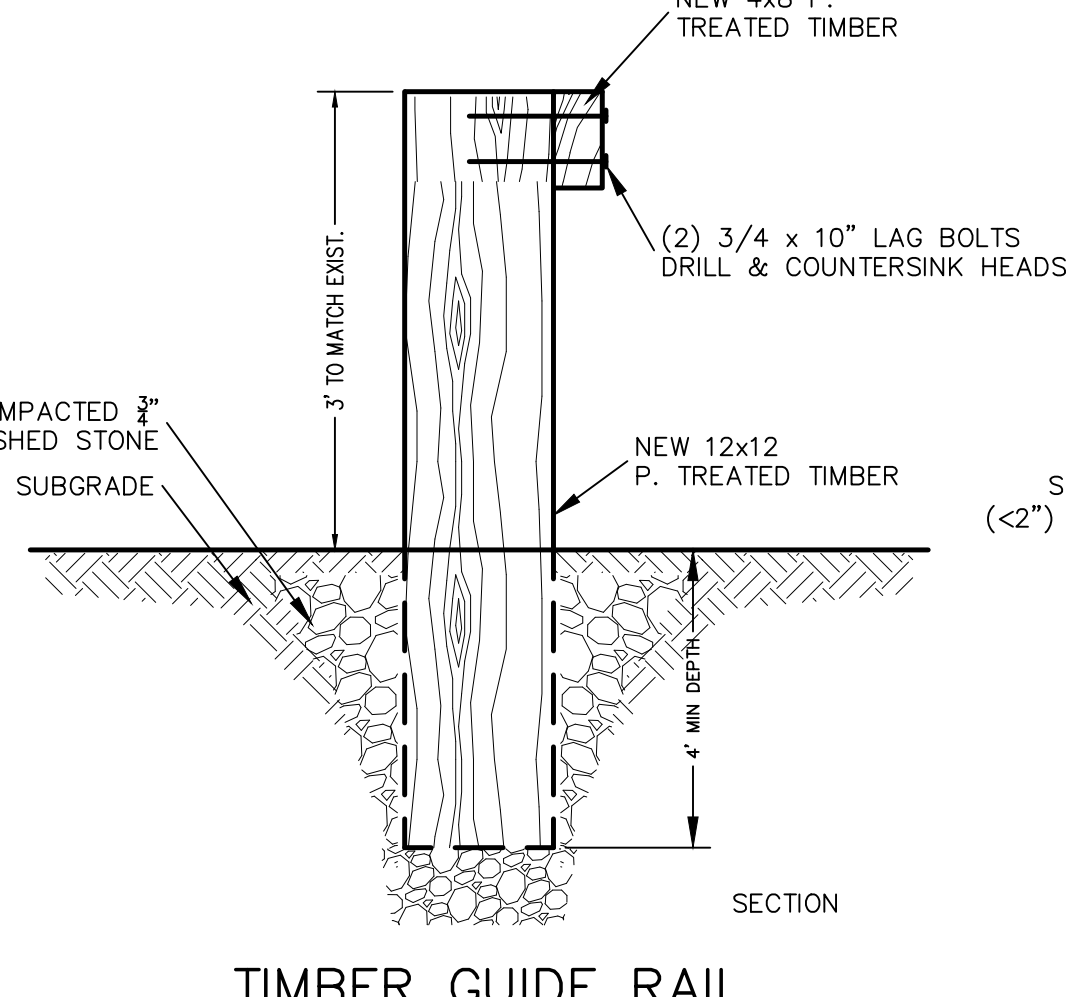
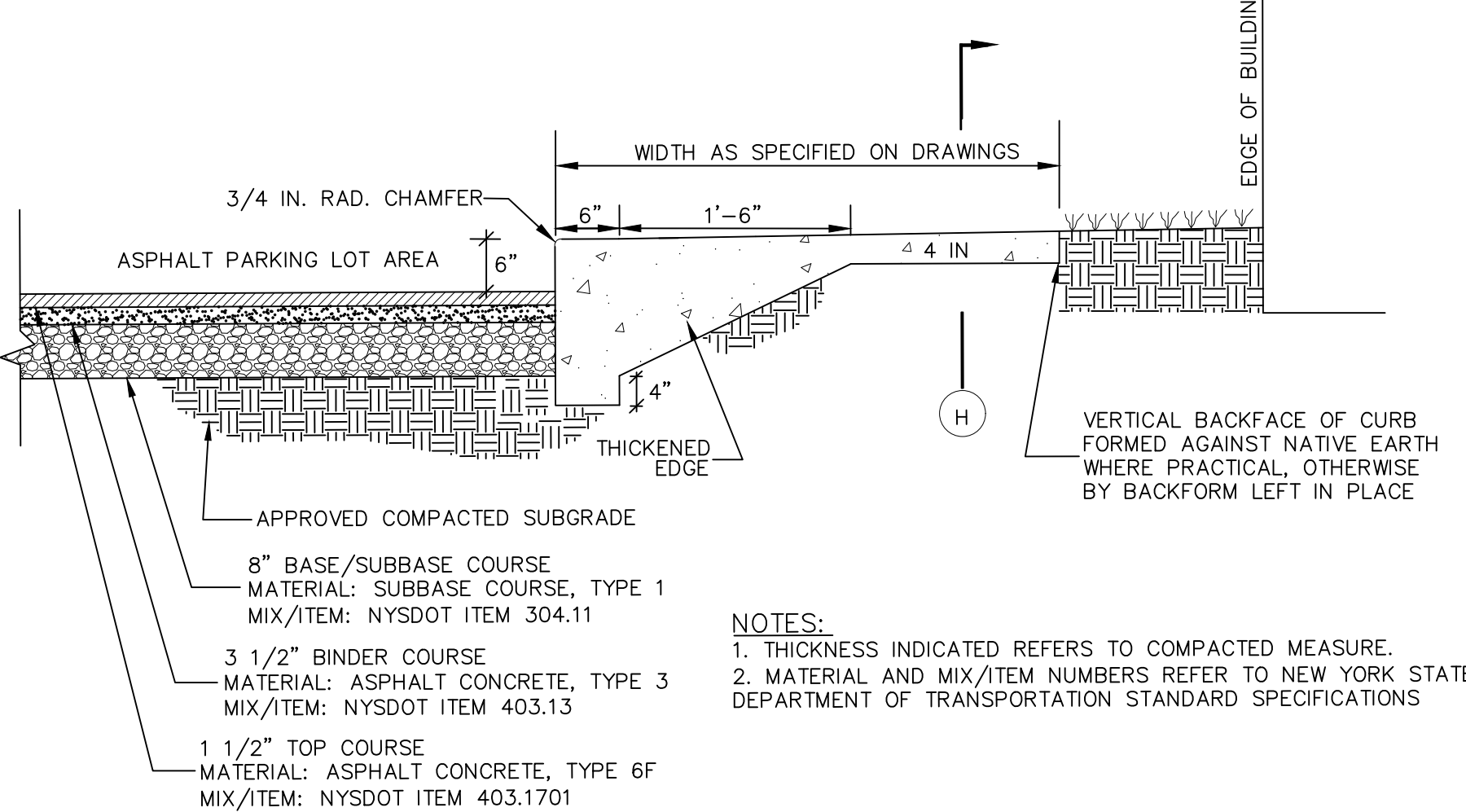
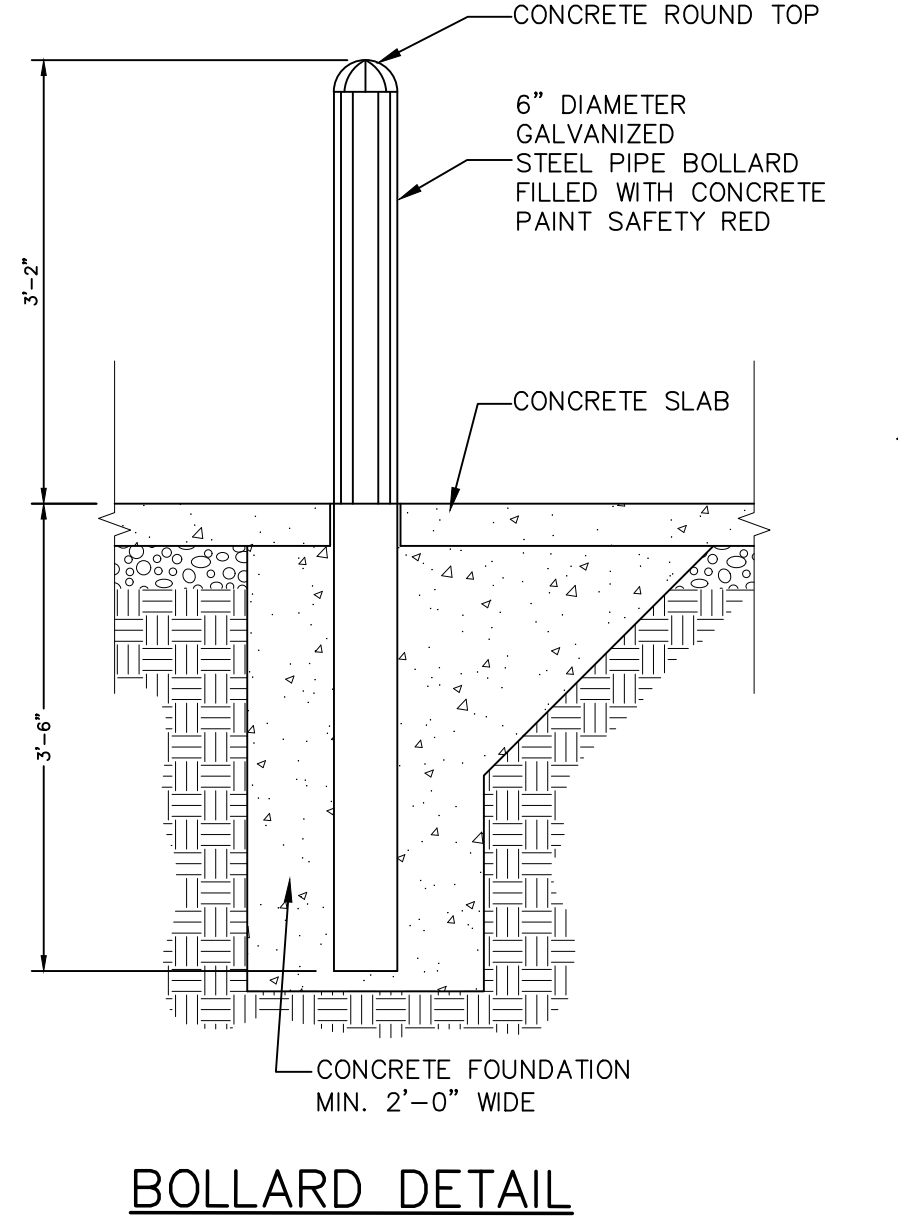
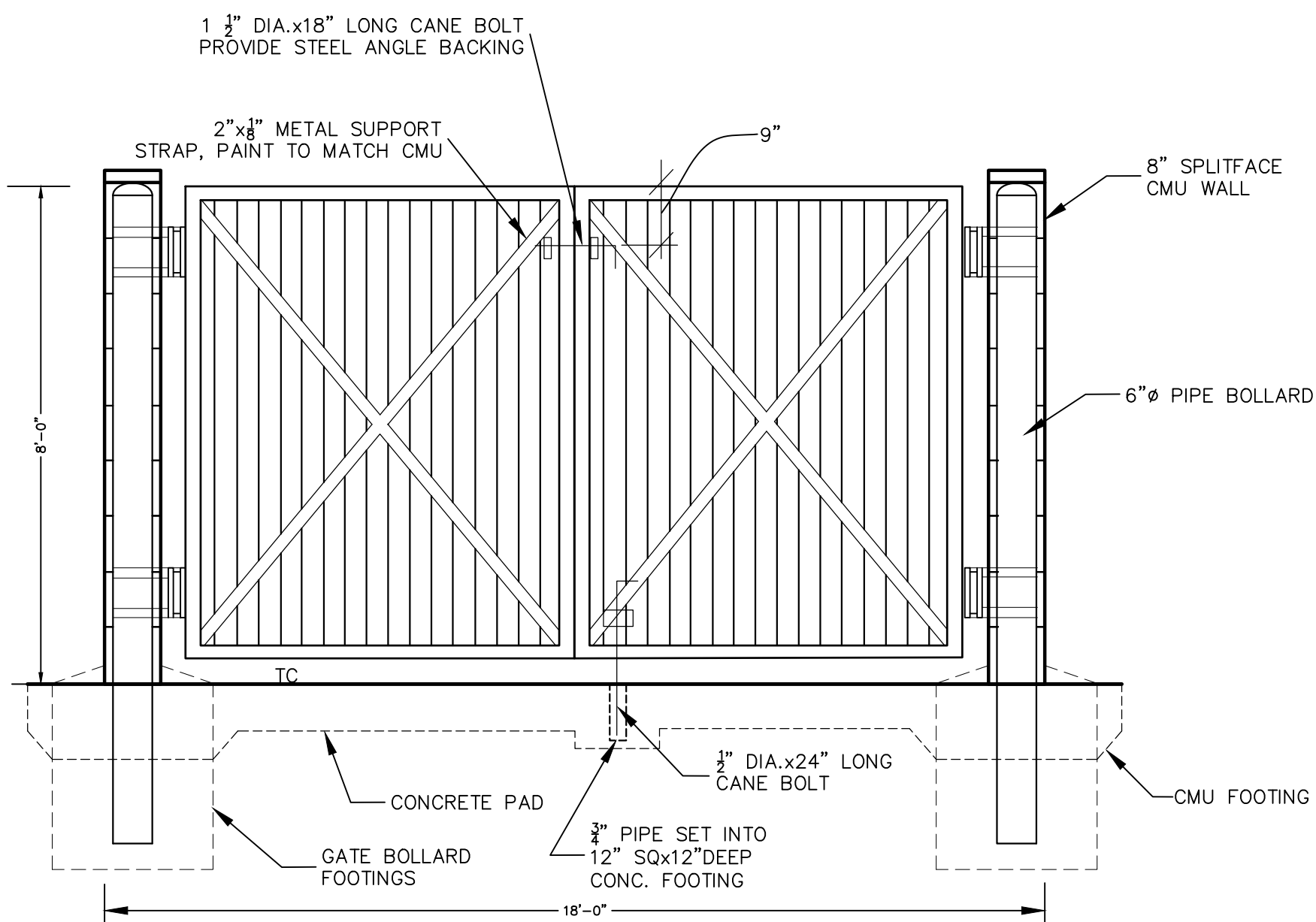
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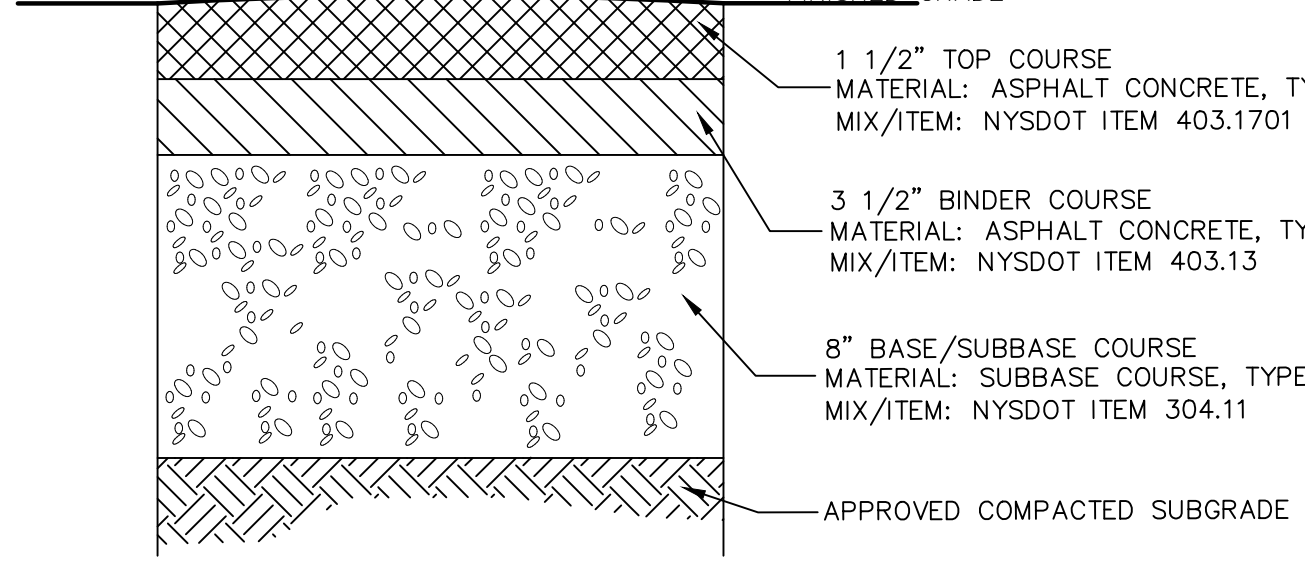
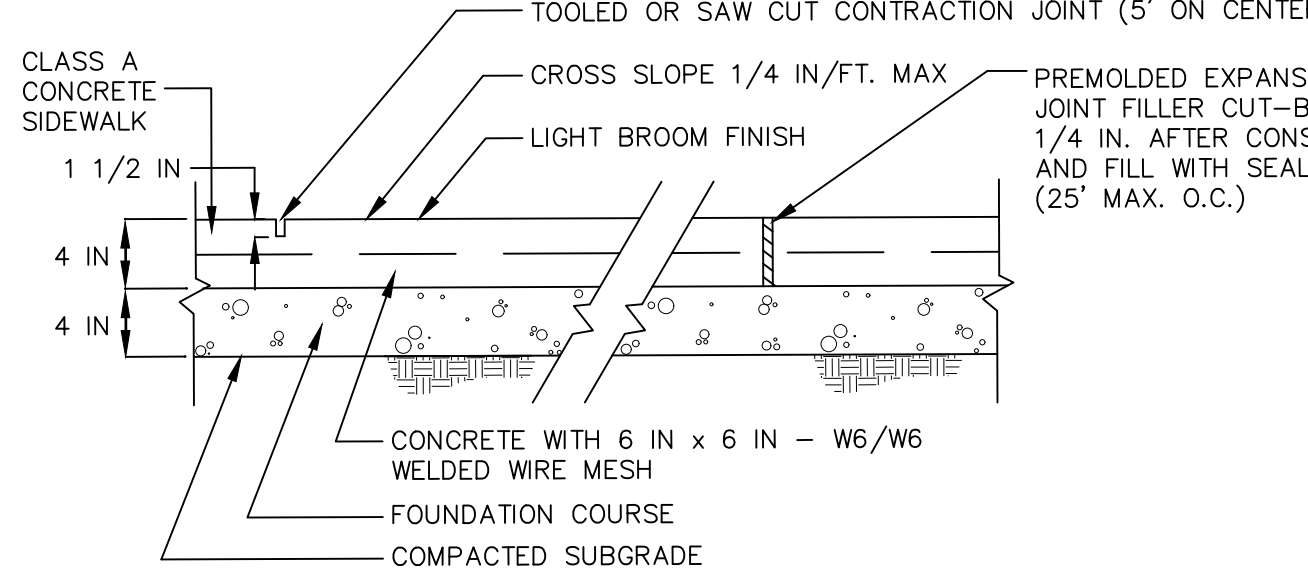


PAVEMENT & SIDEWALK WITH MONOLITHIC CURB

TIMBER GUIDE RAIL

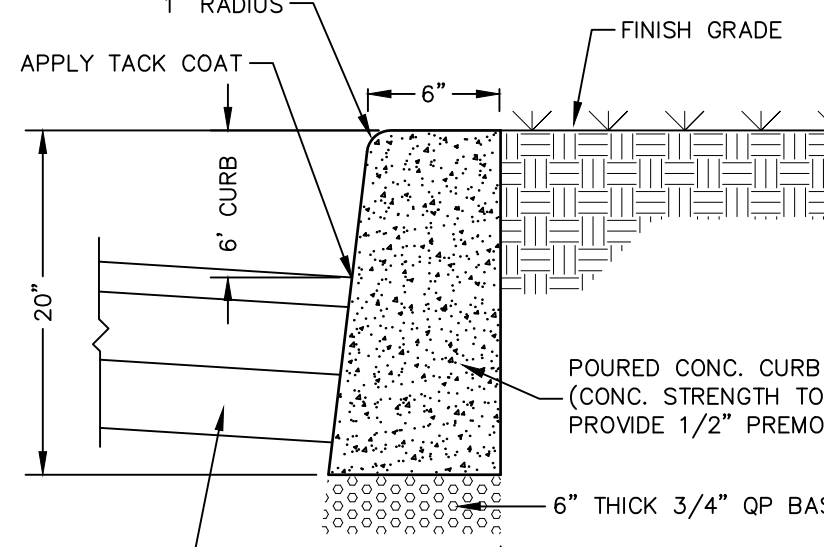
TRENCH CROSS SECTION

PICK UP ENTRANCE

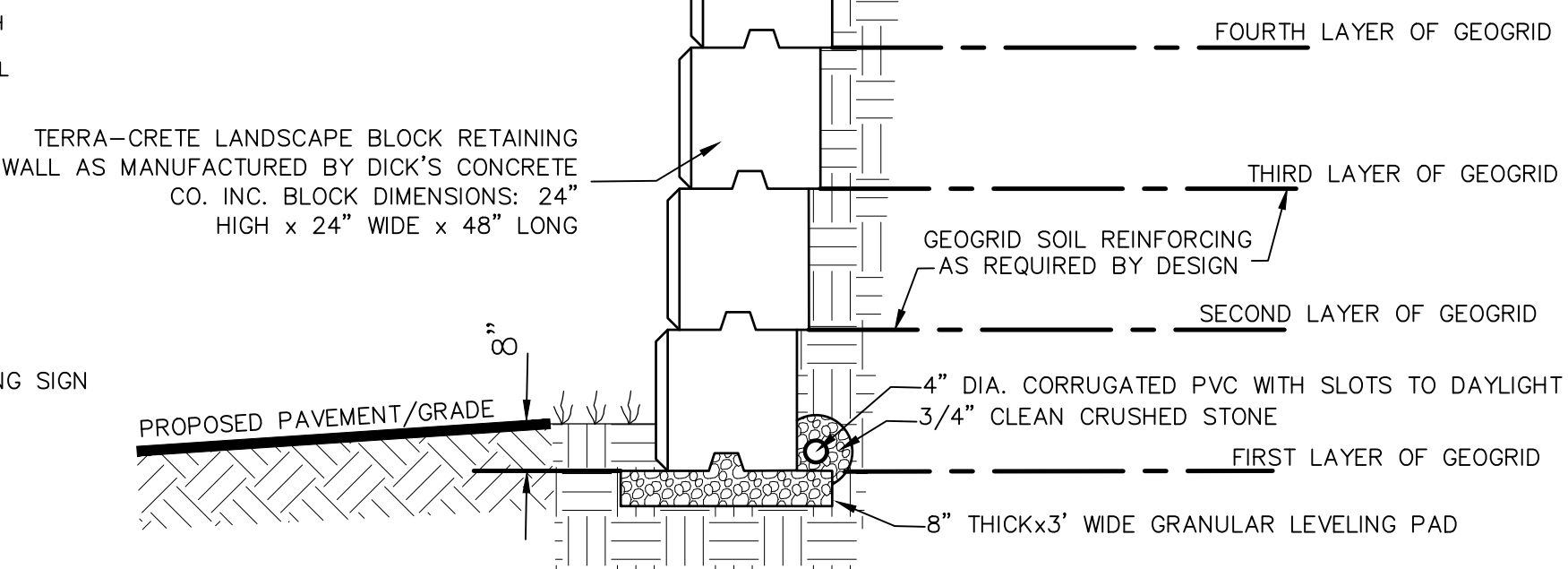


TYPICAL SIDEWALK SECTION

- NOTES:
1. MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, LATEST EDITION AND ALL ADDENDA THERETO.
 2. SUBBASE MATERIAL SHALL CONFORM WITH SECTION 304 - SUBBASE COURSE OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND THE TYPE CALLED OUT IN THESE DRAWINGS.
 3. HOT MIX ASPHALT (HMA) PAVEMENT SHALL CONFORM WITH SECTION 400 HOT MIX ASPHALT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND THE TYPE CALLED OUT IN THESE DRAWINGS. ALTHOUGH SECTION 400 IN ITS ENTIRETY IS REFERENCED, THE HOT MIX ASPHALT (HMA) PAVEMENT(S) SPECIFIED FOR THIS CONTRACT SHALL BE AS SPECIFIED UNDER SECTION 402-HOT MIX ASPHALT (HMA) PAVEMENTS.
 4. TACK COAT SPECIFIED OR CALLED OUT IN THESE DRAWINGS OR REQUIRED BY THE REFERENCED SPECIFICATIONS SHALL CONFORM WITH SECTION 407-TACK COAT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
 5. WHERE IT IS NECESSARY TO PLACE FILL FOR PURPOSES OF BRINGING THE SUBGRADE ELEVATION UP TO A SPECIFIED GRADE, THE FILL MATERIAL PLACED SHALL BE IN CONFORMANCE WITH SECTION 203-EXCAVATION AND EMBANKMENT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
 6. THICKNESS INDICATED REFER TO COMPACTED MEASURE.



TYPICAL ASPHALT DETAIL FOR PARKING AREAS



TERRA-CRETE RETAINING WALL

- NOTES:
1. INSTALL PER MANUFACTURERS SPECIFICATIONS.
 2. BACKFILL MUST BE AN ENGINEERED PRODUCT - COMPACTED IN LIFTS TO A 95% MAX. DENSITY & A MOISTURE CONTENT OF 0%-3%.
 3. DESIGN IS BASED ON A 27 DEGREE FRICTION ANGLE OF SOIL.
 4. GEOGRID MUST BE MANUFACTURER'S SPECIFIED MATERIAL.

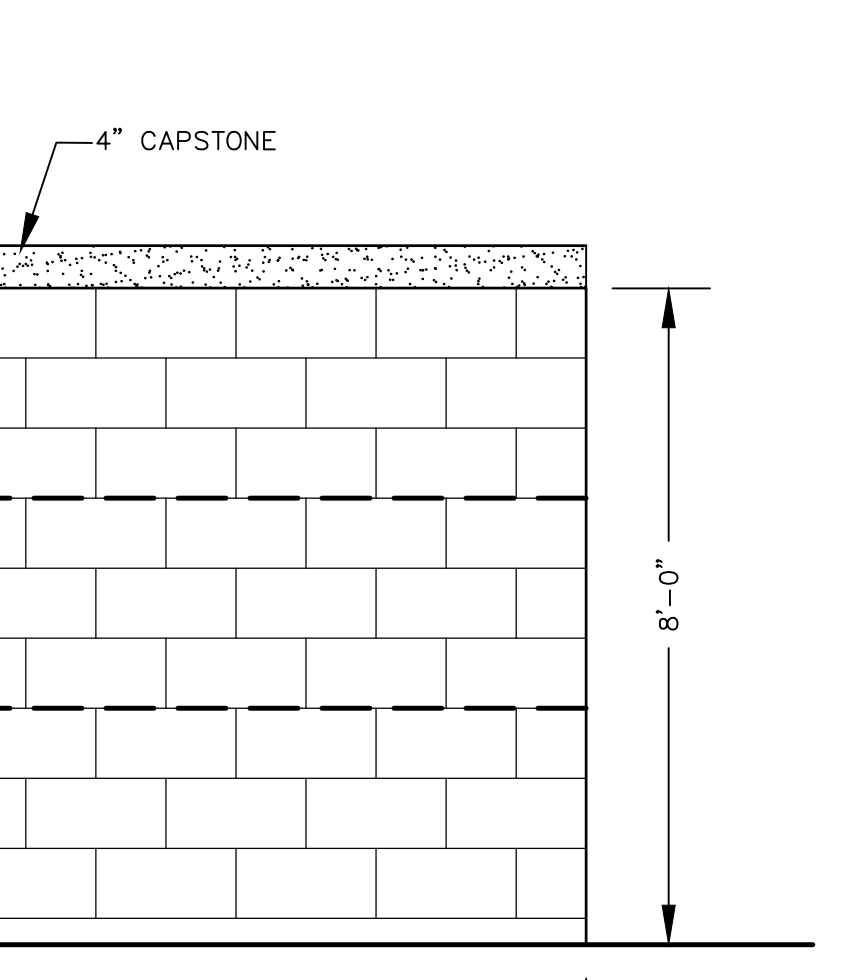
TYPICAL DESIGN:

1. NUMBER OF BLOCKS 2 - NO GEOGRID LAYER
2. NUMBER OF BLOCKS 3 - FIRST LAYER OF GEOGRID - 5' WIDE SECOND LAYER OF GEOGRID - 6.5' WIDE
3. NUMBER OF BLOCKS 4 - FIRST LAYER OF GEOGRID - 6' WIDE SECOND LAYER OF GEOGRID - 6' WIDE THIRD LAYER OF GEOGRID - 7.5' WIDE
4. NUMBER OF BLOCKS 5 - FIRST LAYER OF GEOGRID - 7' WIDE SECOND LAYER OF GEOGRID - 7' WIDE THIRD LAYER OF GEOGRID - 7' WIDE FOURTH LAYER OF GEOGRID - 9' WIDE

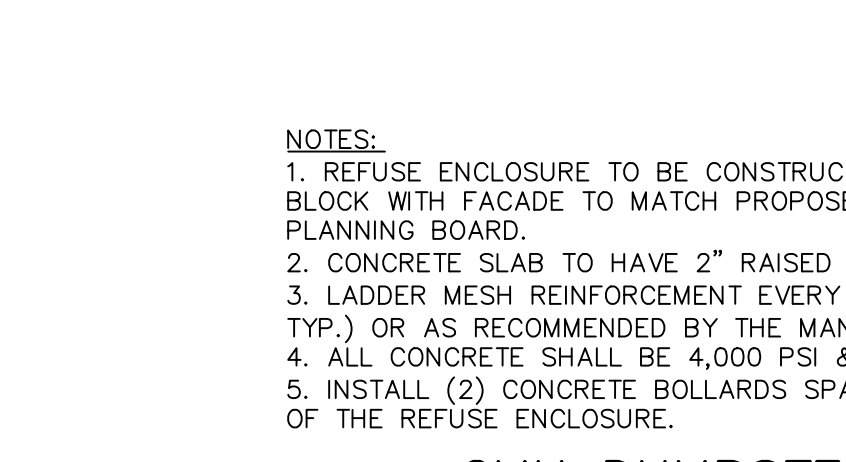
RETAINING WALL NOTES:

1. CONTRACTOR MUST VERIFY SOIL CHARACTERISTICS ENCOUNTERED UPON EXCAVATION TO PREPARE RETAINING WALL DESIGN. ADDITIONAL TESTS & REVIEW OF SOILS AT FOOTING BEARING DEPTH IS REQUIRED & SHALL BE CONDUCTED BY A LICENSED GEOTECHNICAL ENGINEER IN THE STATE OF NEW YORK PRIOR TO INSTALLATION. RETAINING WALL DESIGN SHALL BE SUBMITTED TO THE BUILDING INSPECTOR FOR RECORD PRIOR TO CONSTRUCTION. SUCH DESIGN DRAWINGS (OR SHOP DRAWINGS) SHALL BEAR THE STAMP AND SIGNATURE OF SUCH ENGINEER, AND SHALL BE SPECIFIC FOR THE SITE AND SPECIFIC TO THE RETAINING WALL SYSTEM TO BE UTILIZED AND SHALL CONSIDER ALL APPROPRIATE AND NECESSARY POSSIBLE LOADINGS AND CONDITIONS RELATED TO THIS PROJECT.
2. THE AFOREMENTIONED DESIGN AND DETAILS SHALL CONSIDER / IDENTIFY / INCLUDE BUT SHALL NOT BE LIMITED TO:
 - a. SIGNED AND SEALED DESIGN CALCULATIONS, COMPLETE AND SPECIFIC CONSTRUCTION PLANS AND DETAILS FOR ALL WALLS.
 - b. APPROPRIATE SIZING FOR DRAINAGE SYSTEM TO HANDLE INTENSE STORM CONDITIONS.
 - c. MAINTENANCE ABILITY TO CLEAN STORMWATER PIPING SYSTEMS.
 - d. APPROPRIATE BACKFILL MATERIAL WITH SUFFICIENT POROSITY TO ALLOW FREE DRAINAGE OF WATER. EVALUATE POTENTIAL FAILURE BY INTERNAL/EXTERNAL FAILURE MECHANISMS, GLOBAL FAILURE OR OTHER POTENTIAL FAILURES AND SEISMIC DESIGN CONSIDERATIONS.
3. DURING CONSTRUCTION, THE WORK MUST BE INSPECTED BY A NYS LICENSED PROFESSIONAL ENGINEER WHO SHALL PROVIDE WRITTEN VERIFICATION TO THE BUILDING INSPECTOR PRIOR TO THE REQUEST FOR A CERTIFICATE OF OCCUPANCY, THAT HE/SHE HAS PERSONALLY INSPECTED THE WORK, AND THE INSTALLATION IS IN COMPLIANCE WITH THE DESIGN DRAWINGS AND MANUFACTURER'S INSTALLATION RECOMMENDATIONS.
4. IF DEEMED NECESSARY BY THE DESIGN ENGINEER AND/OR THE MUNICIPALITY, THIRD PARTY TESTING WILL BE PERFORMED REGARDING MATERIAL COMPACTION, FILL QUALITY, ETC. A COPY OF ALL SUCH TESTING RECORDS SHALL BE PROVIDED TO THE MUNICIPAL BUILDING DEPARTMENT FOR RECORD.
5. DUE TO THE HEIGHT OF THE PROPOSED RETAINING WALL, SAFETY FENCING IS TO BE PROVIDED ON THE UPHILL SIDE OF THE PROPOSED RETAINING WALL, AND IS TO BE INCLUDED IN THE DESIGN PREPARED BY A NYS LICENSED PROFESSIONAL ENGINEER.

CMU DUMPSTER ENCLOSURE GATE



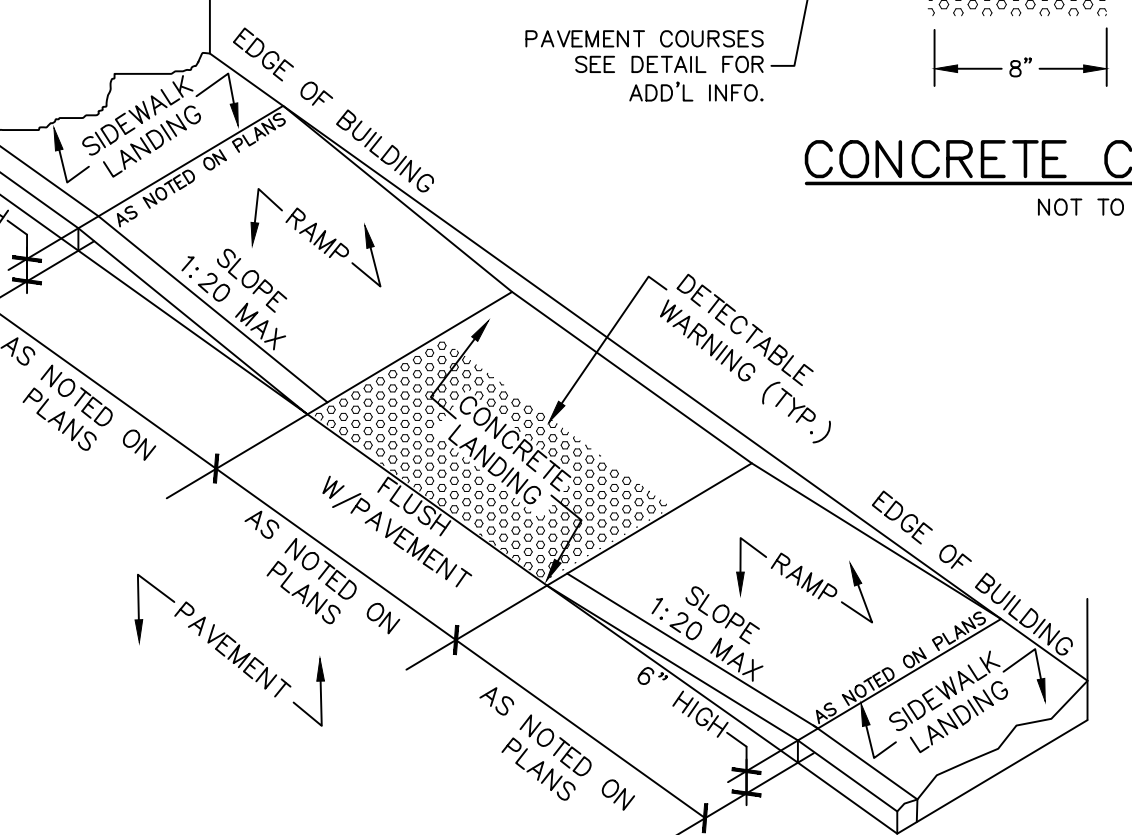
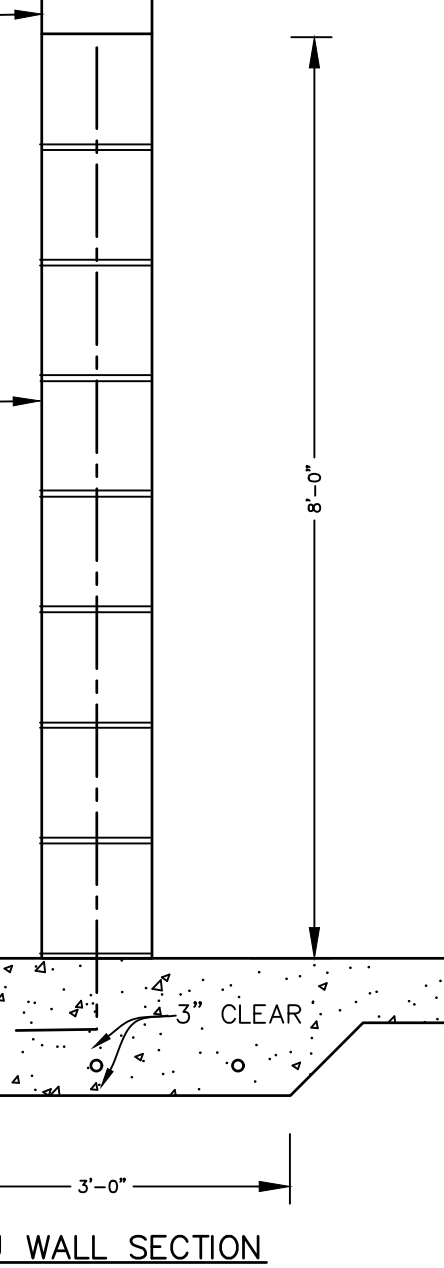
ENCLOSED SIDES



CMU DUMPSTER ENCLOSURE



CMU WALL SECTION

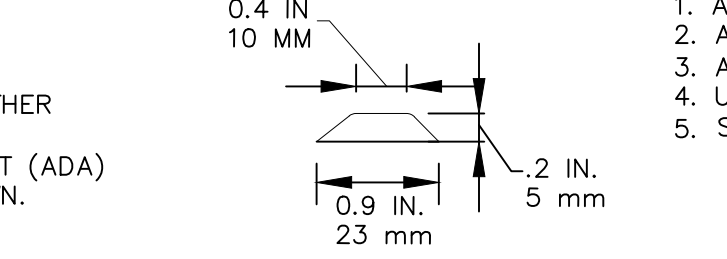


- NOTES:
1. ALL CROSS-SLOPES SHALL BE 1:50 OR LESS.
 2. ALL RUNNING SLOPES LEADING TO ACCESSIBLE LANDING SHALL NOT EXCEED 1:20.
 3. SIDEWALK LANDINGS SHALL BE 5'x5' MIN.
 4. ENTRANCE TO BUILDING SHALL HAVE A 5'x5' CLEAR AREA WHEN DOORS ARE OPEN.
 5. DETECTABLE WARNING STRIP TO CONTRAST VISUALLY WITH ADJOINING SURFACES EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. THE CONTRACTOR IS REQUIRED TO CONFORM TO THE AMERICANS WITH DISABILITIES ACT (ADA) DETAILS, SPECIFICATIONS, AND STANDARDS WHICH MAY SUPERCEDE THE DETAILS SHOWN.

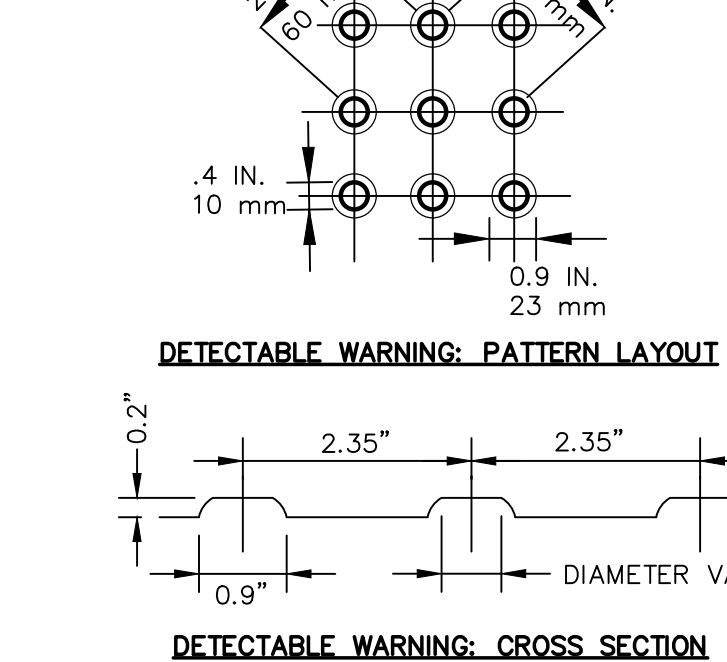
IN-LINE ACCESSIBLE RAMP

SITE ACCESSIBILITY NOTES:

1. REFER TO SITE PLAN FOR EXACT LOCATION OF HANDICAP PARKING, WALKWAYS AND RAMPS.
2. ALL WALKWAYS, RAMPS, AND HANDICAP PARKING SIGNAGE, ETC. SHALL MEET APPROVED AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS AND LOCAL ACCESSIBILITY CODE.
3. ONE OUT OF EVERY EIGHT (8) ACCESSIBLE PARKING SPACES, BUT NOT LESS THAN ONE, IS REQUIRED TO BE VAN ACCESSIBLE.
4. ALL CONCRETE ACCESSIBLE RAMPS (3000 PSI) SURFACES SHALL HAVE TRUNCATED DOMES PER ADA STANDARDS AND LOCAL ACCESSIBILITY CODE.
5. ALL CONCRETE ACCESSIBLE RAMPS SHALL BE COLOR IMPREGNATED TO PROVIDE VISUAL CONTRAST (DARK TO LIGHT) WITH ADJOINING CONCRETE SURFACES (MINIMUM 70% COLOR CONTRAST).
6. THE MATERIAL USED TO PROVIDE COLOR CONTRAST IN CONCRETE ACCESSIBLE RAMPS SHALL BE AN INTEGRAL (PERMANENT) PART OF THE CONCRETE AND SHALL NOT BE PAINTED ON OR CAPABLE OF FADING OR WEARING OFF.
7. FINISHED GRADES OF PAVEMENT IN HC PARKING AND ACCESSIBILITY AISLE SHALL NOT EXCEED 1:50 SLOPE IN ANY DIRECTION.



DETECTABLE WARNING: PATTERN LAYOUT

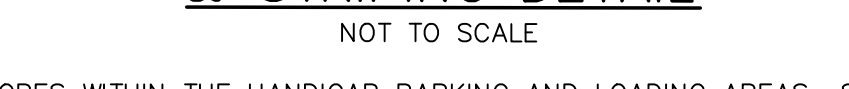


DETECTABLE WARNING: CROSS SECTION

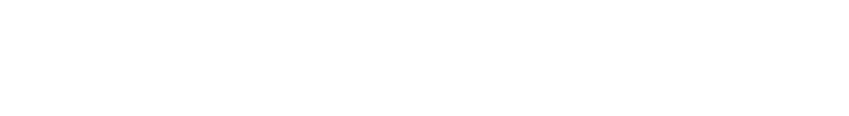
DETECTABLE WARNING PAD DETAIL

- NOTES:
1. TRUNCATED DOME PATTERN.
 2. ROWS OF TRUNCATED DOMES ALIGNED PERPENDICULAR TO THE GRADE BREAK BETWEEN THE CURB RAMP/LANDING AND THE STREET.
 3. FULL WIDTH OF CURB RAMP/LANDING CONNECTION TO THE STREET.
 4. DEPTH: 24-INCH MINIMUM.
 5. INSTALLED AT BACK OF CURB.
 6. CONTRASTS WITH BACKGROUND (LIGHT-ON-DARK OR DARK-ON-LIGHT).

ACCESSIBLE PARKING SPACE & STRIPING DETAIL



- NOTES:
1. ALL SLOPES WITHIN THE HANDICAP PARKING AND LOADING AREAS, SHALL BE 1:50 OR LESS.
 2. ALL RUNNING SLOPES LEADING TO ACCESSIBLE PARKING SHALL NOT EXCEED 1:20.
 3. ACCESSIBLE AISLE STRIPING SPACED 2' O.C. AT A 45° ANGLE.
 4. UTILIZE BLUE & WHITE EPOXY RESIN DYNAMIC SYMBOL OF ACCESSIBILITY.
 5. STRIPED LOADING AND UNLOADING AREA: 60' MIN. OR 96' MIN. FOR VANS.



ACCESSIBLE PARKING SIGN



TOWN OF CHESTER PLANNING BOARD APPROVAL



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SITE PLAN & LOT LINE COMBINATION FOR DAVIDSON DRIVE HOLDINGS, LLC

LAKE STATION ROAD

TOWN OF CHESTER, COUNTY OF ORANGE, NY

19 CONSTRUCTION DETAILS

REVISION BY DATE DESCRIPTION

4. MM 12/2/21 PER PB MTG & AF COMMENT LETTER

3. MM 9/16/21 PREPARATION OF PRELIMINARY PLANS

2. MM 5/19/21 REVISION PER PB MTG. & COMMENT LETTERS

1. MM 3/23/21 ROAD LAYOUT REVISION PER PB MTG.

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SOIL RESTORATION NOTES:

- DURING PERIODS OF RELATIVELY LOW TO MODERATE SUBSOIL MOISTURE, THE DISTURBED SUBSOILS ARE RETURNED TO ROUGH GRADE AND THE FOLLOWING SOIL RESTORATION STEPS APPLIED:
- 1) APPLY 3 INCHES OF COMPOST OVER SUBSOIL
 - 2) TILL COMPOST INTO SUBSOIL TO A DEPTH OF AT LEAST 12 INCHES USING A CAT-MOUNTED RIPPER, TRACTOR-MOUNTED DISC, OR TILLER. MIXING AND CIRCULATING AIR AND COMPOST INTO SUBSOIL.
 - 3) ROCK-PICK UNTIL UNLIFTED STONE/ROCK MATERIALS OF FOUR INCHES AND LARGER SIZE ARE CLEARED OFF THE SITE
 - 4) APPLY TOPSOIL TO A DEPTH OF SIX INCHES
 - 5) VEGETATE AS REQUIRED BY APPROVED PLAN

COMPOST SPECIFICATIONS:

- 1) COMPOST SHALL BE AGED, FROM PLANT DERIVED MATERIALS, FREE OF VIABLE WEED SEEDS, HAVE NO VISIBLE FREE WATER OR DUST PRODUCED WHEN HANDLING, PASS THROUGH A HALF INCH SCREEN AND HAVE A PH SUITABLE TO GROW DESIRED PLANTS.

MAINTENANCE:

- 1) SIMPLE MAINTENANCE SHOULD IDENTIFY WHERE SOIL RESTORATION IS APPLIED, WHERE NEWLY RESTORED AREAS ARE/CANNOT BE CLEARED, WHO THE RESPONSIBLE PARTIES ARE TO ENSURE THAT ROUTINE VEGETATION IMPROVEMENTS ARE MADE (THINNING, INVASIVE PLANT REMOVAL ETC.)
- 2) SOIL COMPOST AMENDMENTS WITHIN A FILTER STRIP OR GRASS CHANNEL SHOULD BE LOCATED IN PUBLIC RIGHT OF WAY, OR WITHIN A DEDICATED STORMWATER OR DRAINAGE EASEMENT.
- 3) FIVE YEAR MAINTENANCE OPERATIONS INCLUDES:
 - a) INITIAL INSPECTIONS FOR THE FIRST SIX MONTHS (ONCE AFTER EACH STORM GREATER THAN HALF-INCH)
 - b) RESEEDING TO REPAIR BARE OR ERODING AREAS TO ASSURE GRASS STABILIZATION
 - c) WATER ONCE EVERY THREE DAYS FOR THE FIRST MONTH, AND THEN PROVIDE A HALF INCH OF WATER PER WEEK DURING THE FIRST YEAR. IRRIGATION PLAN MAY BE ADJUSTED ACCORDING TO THE RAIN EVENT.
 - d) FERTILIZATION MAY BE NEEDED IN THE FALL AFTER THE FIRST GROWING SEASON TO INCREASE PLANT VIGOR.

- 4) TO ASSIST IN ONGOING MAINTENANCE, PLANTING THE APPROPRIATE GROUND COVER WITH DEEP ROOTS TO MAINTAIN THE SOIL STRUCTURE, AND KEEP THE SITE FREE OF VEHICULAR AND FOOT TRAFFIC OR OTHER WEIGHT LOADS. SOMETIMES IT MAY BE NECESSARY TO DE-THATCH THE TURF EVERY FEW YEARS.

INFILTRATION FACILITY NOTES:

1. 6" TOPSOIL SUITABLE FOR VEGETATIVE COVER WILL BE APPLIED TO VEGETATIVE AREAS. THE PLANTING SOIL SHOULD BE A SANDY LOAM, LOAMY SAND, LOAM (USDA), OR A LOAM / SAND MIX. SOILS SHOULD FALL WITHIN THE SM, OR ML CLASSIFICATIONS OF THE UNIFIED SOIL CLASSIFICATION SYSTEM (USDC). A PERMEABILITY OF AT LEAST 1.0 FEET PER DAY (0.5"/HR) IS REQUIRED. SOIL SHOULD BE FREE OF STONES, STUMPS, ROOTS, OR OTHER WOODY MATERIAL OVER 1" IN DIAMETER. BRUSH OR SEEDS FROM NOXIOUS WEEDS.
2. THE INFILTRATION SYSTEM SHALL BE PLANTED PRIMARILY WITH GRASSES OF THE FESCUE FAMILY IN ACCORDANCE WITH THE NEW YORK STATE STORMWATER MANAGEMENT MANUAL, APPENDIX C, SECTION C.2 CONSTRUCTION SPECIFICATIONS FOR INFILTRATION PRACTICES. ADDITIONAL PLANTINGS ARE ACCEPTABLE IF THEY DO NOT INTERFERE WITH THE MAINTENANCE OF THE SYSTEM, BUT ARE NOT REQUIRED, AND MAY BE ELIMINATED.
3. IN NORMAL CONDITIONS, INFILTRATION WILL BE DRY, AND BALL VALVE IN CURB EXTENSION WILL BE IN THE CLOSED POSITION. GRAVEL TRENCH AND PERFORATED PIPE DRAIN IS PROVIDED IN CASE OF LONG TERM STANDING WATER. BALL VALVE CAN BE ACCESSED THROUGH CURB EXTENSION TO OPEN BALL VALVE FOR DRAINAGE.
4. THE APPROXIMATE OUTER LIMITS OF THE PRETREATMENT AREA IS AS SHOWN ON THE PLAN. THIS AREA IS PART OF THE STORMWATER FACILITY, AND ANY FUTURE MODIFICATIONS TO THIS AREA WILL REQUIRE REVIEW AND APPROVAL BY THE NYS DEC.
5. ASSURANCE MUST BE TAKEN THAT ANY LANDSCAPING INSTALLED DOES NOT INHIBIT FUNCTION OR MAINTENANCE OF STORMWATER MANAGEMENT STRUCTURES.

INFILTRATION BASIN CONSTRUCTION NOTES & SPECIFICATIONS:

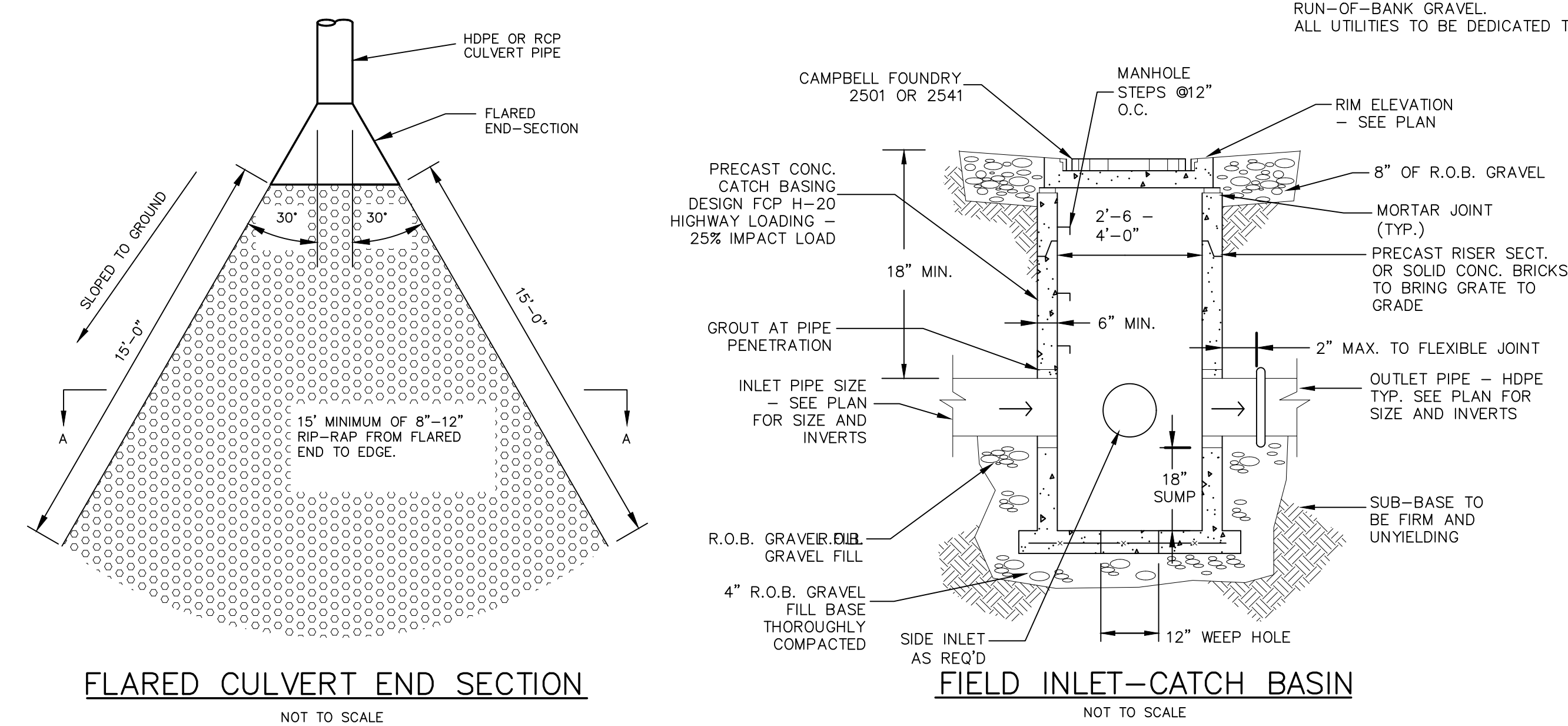
1. THE SEQUENCE OF VARIOUS PHASES OF BASIN CONSTRUCTION SHALL BE COORDINATED WITH THE OVERALL PROJECT CONSTRUCTION SCHEDULE. A PROGRAM SHOULD SCHEDULE ROUGH EXCAVATION OF THE BASIN (TO NOT LESS THAN 2" FROM FINAL GRADE) WITH THE ROUGH GRADING PHASE OF THE PROJECT TO PERMIT USE OF THE MATERIAL AS FILL IN EARTHWORK AREAS. THE PARTIALLY EXCAVATED BASIN, HOWEVER, CANNOT SERVE AS A SEDIMENTATION BASIN. SPECIFICATIONS FOR BASIN CONSTRUCTION SHOULD STATE: (1) THE EARLIEST POINT IN PROGRESS WHEN STORM DRAINAGE MAY BE DIRECTED TO THE BASIN, AND (2) THE MEANS BY WHICH THIS DELAY IN USE IS TO BE ACCOMPLISHED. DUE TO THE WIDE VARIETY OF CONDITIONS ENCOUNTERED IN SUCH PROJECTS, EACH SHOULD BE SEPARATELY EVALUATED IN ORDER TO POSTPONE USE AS LONG AS IS REASONABLY POSSIBLE.
2. INITIAL BASIN EXCAVATION SHOULD BE CARRIED TO WITHIN 2 FEET OF THE FINAL ELEVATION OF THE BASIN FLOOR. FINAL EXCAVATION TO THE FINISHED GRADE SHOULD BE DEFERRED UNTIL ALL DISTURBED AREAS ON THE WATERSHED HAVE BEEN STABILIZED OR PROTECTED. THE FINAL PHASE EXCAVATION SHOULD REMOVE ALL ACCUMULATED SEDIMENT, RELATIVELY LIGHT TRACKED EQUIPMENT IS RECOMMENDED FOR THIS OPERATION TO AVOID COMPACTION OF THE BASIN FLOOR. AFTER THE FINAL GRADING IS COMPLETED, THE BASIN SHOULD RETAIN A HIGHLY POROUS SURFACE TEXTURE.
3. INFILTRATION BASINS MAY BE LINED WITH A 6- TO 12-INCH LAYER OF FILTER MATERIAL SUCH AS COARSE SAND (AASHTO STD. M-43, SIZES 9 OR 10) TO HELP PREVENT THE BUILDUP OF IMPERVIOUS DEPOSITS ON THE SOIL SURFACE. THE FILTER LAYER CAN BE REPLACED OR CLEANED WHEN IT BECOMES CLOGGED. WHEN A 6-INCH LAYER OF COARSE ORGANIC MATERIAL IS SPECIFIED FOR DESIGN (SUCH AS HULLS, LEAVES, STEMS, ETC.) OR SPADING INTO THE BASIN FLOOR TO INCREASE THE PERMEABILITY OF THE SOILS, THE BASIN FLOOR SHOULD BE SOAKED OR INUNDATED FOR A BRIEF PERIOD, THEN ALLOWED TO DRY SUBSEQUENT TO THIS OPERATION. THIS INDUCES THE ORGANIC MATERIAL TO DECAY RAPIDLY, LOOSENING THE UPPER SOIL LAYER.
4. ESTABLISHING DENSE VEGETATION ON THE BASIN SIDE SLOPES AND FLOOR IS RECOMMENDED. A DENSE VEGETATIVE STAND WILL NOT ONLY PREVENT EROSION AND SLOUGHING, BUT WILL ALSO PROVIDE A NATURAL MEANS OF MAINTAINING RELATIVELY HIGH INFILTRATION RATES. EROSION PROTECTION FOR INFLOW POINTS TO THE BASIN SHALL ALSO BE PROVIDED.
5. SELECTION OF SUITABLE VEGETATIVE MATERIALS FOR THE SIDE SLOPE AND ALL OTHER AREAS TO BE STABILIZED WITH VEGETATION AND APPLICATION OF REQUIRED LIME, FERTILIZER, ETC. SHALL BE DONE IN ACCORDANCE WITH THE NRCS STANDARDS AND SPECIFICATIONS FOR YOUR LOCAL STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
6. GRASSES OF THE FESCUE FAMILY ARE RECOMMENDED FOR SEEDING PRIMARILY DUE TO THEIR ADAPTABILITY TO DRY SANDY SOILS, DROUGHT RESISTANCE, HARDINESS, AND ABILITY TO WITHSTAND BRIEF INUNDATIONS. THE USE OF FESCUES WILL ALSO PERMIT LONG INTERVALS BETWEEN MOWINGS. THIS IS IMPORTANT DUE TO THE RELATIVELY STEEP SLOPES WHICH MAKE MOWING DIFFICULT. MOWING TWICE A YEAR, ONCE IN JUNE AND AGAIN IN SEPTEMBER, IS GENERALLY SATISFACTORY.

OUTLET STRUCTURE NOTES:

1. ALL CONCRETE SHALL BE A MINIMUM 4,000 PSI.
2. ALL TRASH RACK CONNECTIONS TO OUTLET STRUCTURE SHALL BE ALUMINUM.
3. UPON COMPLETION OF STORMWATER CONSTRUCTION, OWNER SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE DRAINAGE FACILITIES IN ACCORDANCE WITH THE NYSDEC STORMWATER MANAGEMENT DESIGN MANUAL. THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO:
 - a. REMOVAL OF DEBRIS FROM TRASH RACKS
 - b. ROUTINE GRASS CUTTING AROUND INLET PIPES, ORIFICES
 - c. SEDIMENT AND GRIT REMOVAL
4. TRASH RACKS FOR OS-1 RIM & RECTANGULAR WEIR PROVIDED BY WOODARD'S CONCRETE PRODUCTS, OR EQUAL.
5. PIPES ARE TO BE FLUSH WITH THE INSIDE OF THE OUTLET STRUCTURE WALLS.

DRAINAGE NOTES:

1. ALL CONCRETE SHALL BE A MINIMUM 4,000 PSI.
2. UPON COMPLETION OF INFILTRATION BASIN CONSTRUCTION, OWNER SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE DRAINAGE FACILITIES IN ACCORDANCE WITH THE NYSDEC STORMWATER MANAGEMENT DESIGN MANUAL. THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO:
 - a. REMOVAL OF DEBRIS FROM TRASH RACKS
 - b. ROUTINE GRASS CUTTING AROUND INLET PIPES, ORIFICES
 - c. SEDIMENT AND GRIT REMOVAL
3. TRASH RACK IS MANUF. BY PLASTIC SOLUTIONS, OR EQUAL.
4. PIPES ARE TO BE FLUSH WITH THE INSIDE OF THE OUTLET STRUCTURE WALLS.

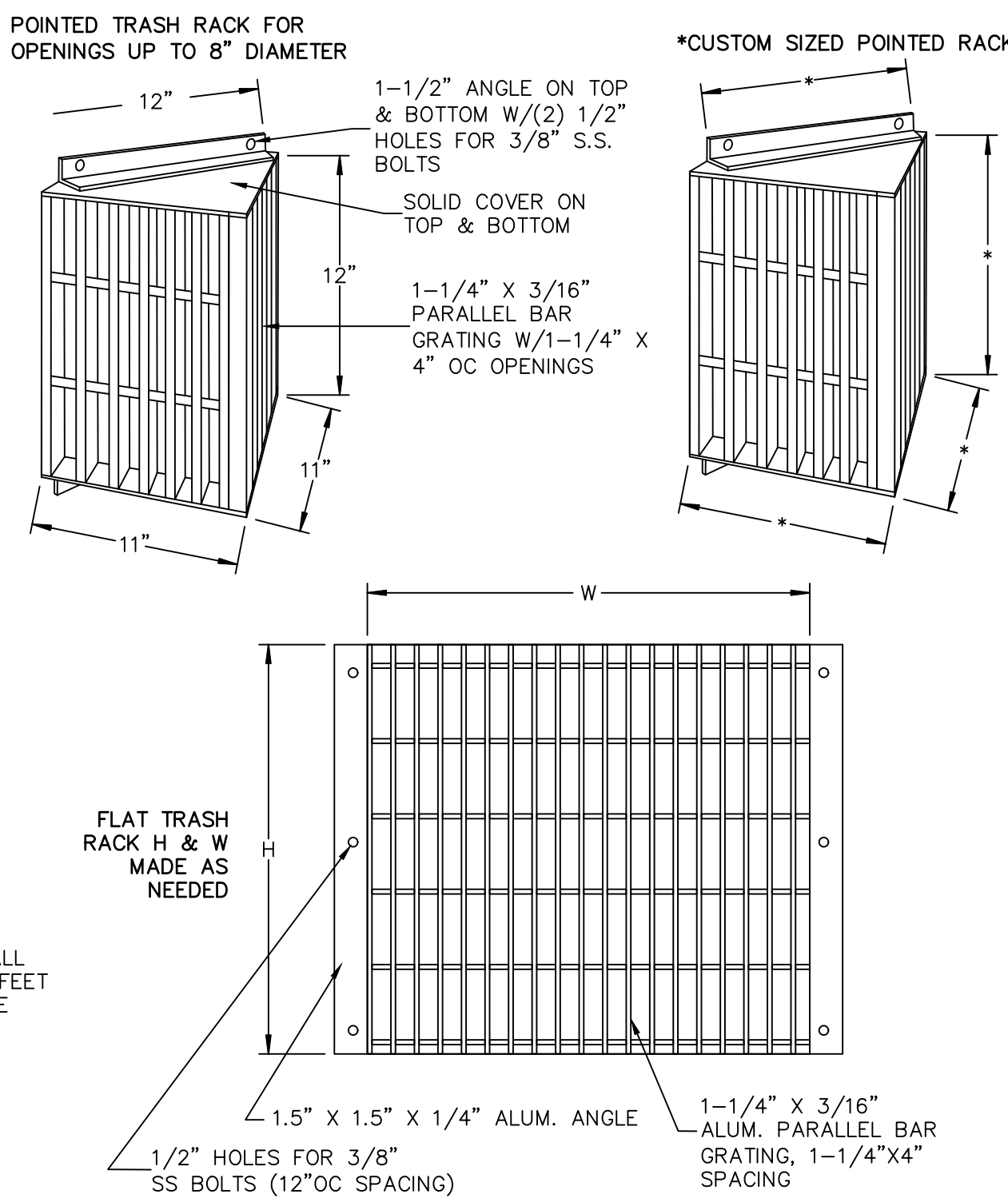


BIORETENTION WEIR

NOT TO SCALE

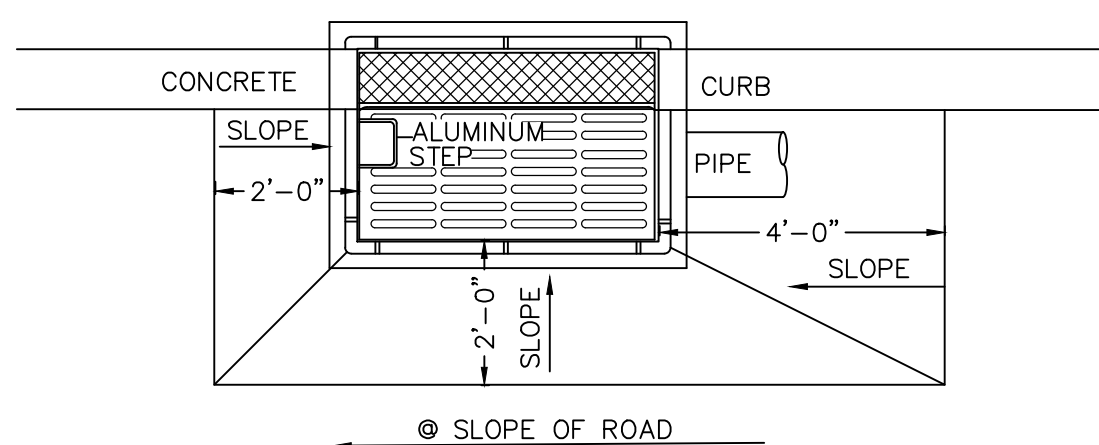
WARNING- IT IS A VIOLATION OF NEW YORK EDUCATIONAL LAW, SECTION 7209.2, FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATIONAL LAW, SECTION 7209.2.

ONLY MAPS WITH EMBOSSED SEALS ARE GENUINE COPIES OF THE ORIGINAL WORK AND OPINION. MAPS NOT BEARING EMBOSSED SEALS SHOULD NOT BE RELIED UPON SINCE OTHER THAN EMBOSSED-SEAL COPIES MAY CONTAIN UNAUTHORIZED AND UNDETECTABLE MODIFICATIONS, DELETIONS, ADDITIONS AND CHANGES.



ALUMINUM TRASH RACK FOR CONCRETE WEIR

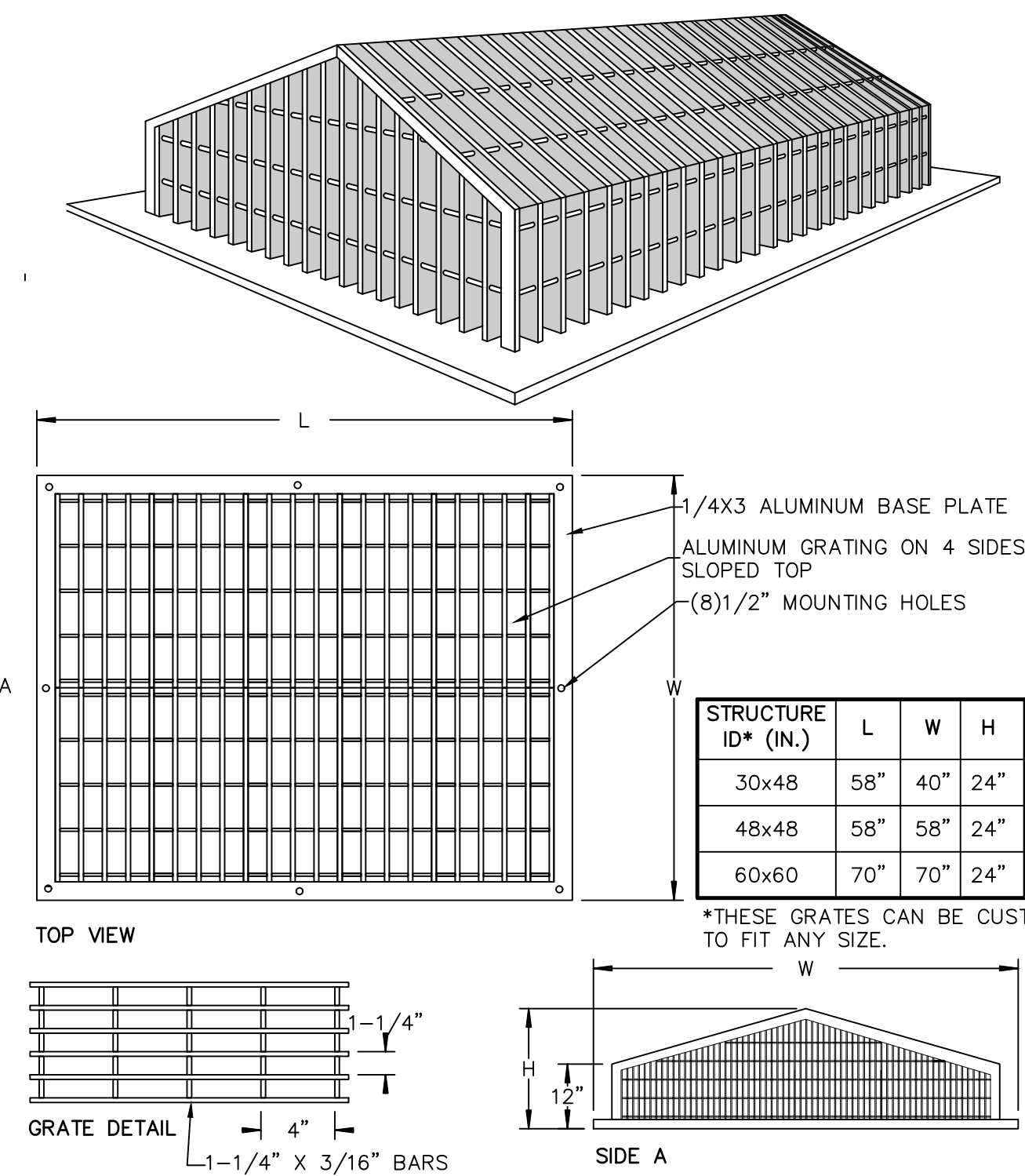
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CURB INLET-CATCH BASIN

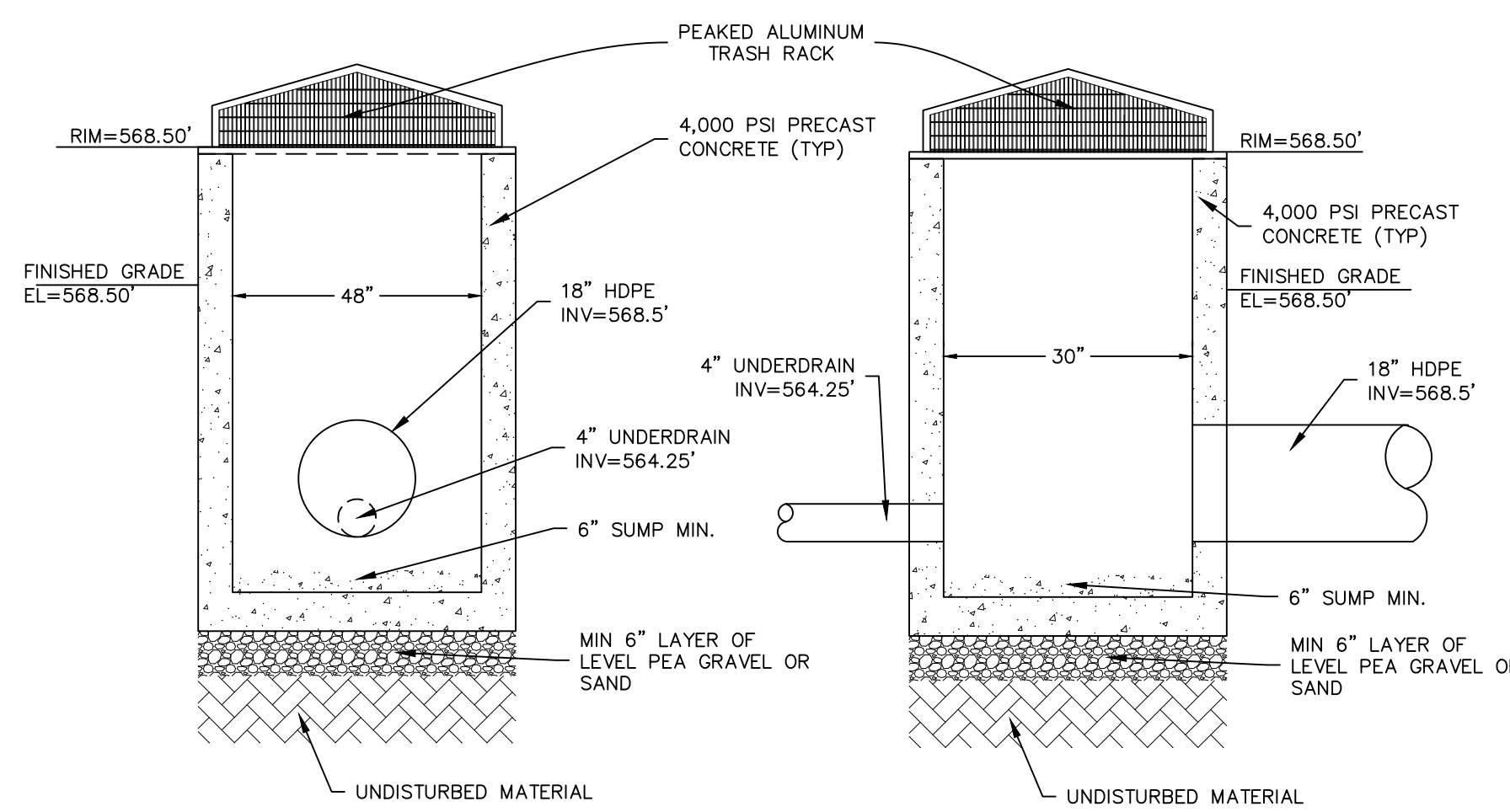
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- NOTES:
1. RETAINER GLANDS ARE REQUIRED ON ALL FITTINGS IN ADDITION TO THE RODS AND THRUST BLOCKS.
 2. ALL UTILITY TRENCHES WITHIN PAVED AREAS SHALL BE BACKFILLED FULL DEPTH WITH RUN-OF-BANK GRAVEL.
 3. ALL UTILITIES TO BE DEDICATED TO THE TOWN SHALL MEET TOWN OF WALKILL SPECIFICATIONS.



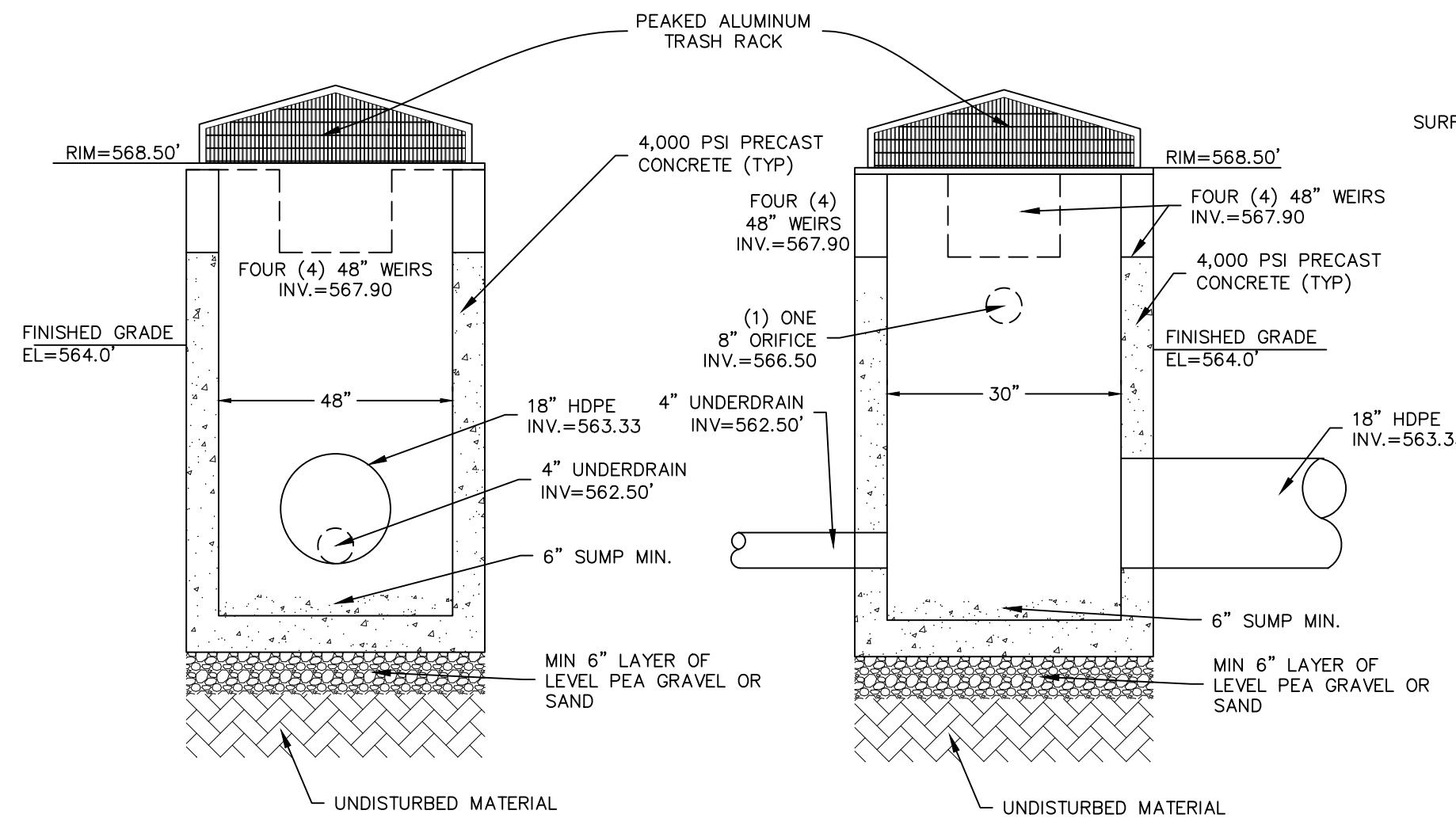
PEAKED ALUMINUM TRASH RACK FOR POND OUTLET

NOT TO SCALE



OS-2 OUTLET CONTROL STRUCTURE DETAIL (BIORETENTION)

NOT TO SCALE



OS-1 OUTLET CONTROL STRUCTURE DETAIL (WETPOND)

NOT TO SCALE

STORMWATER FACILITY MAINTENANCE NOTES:

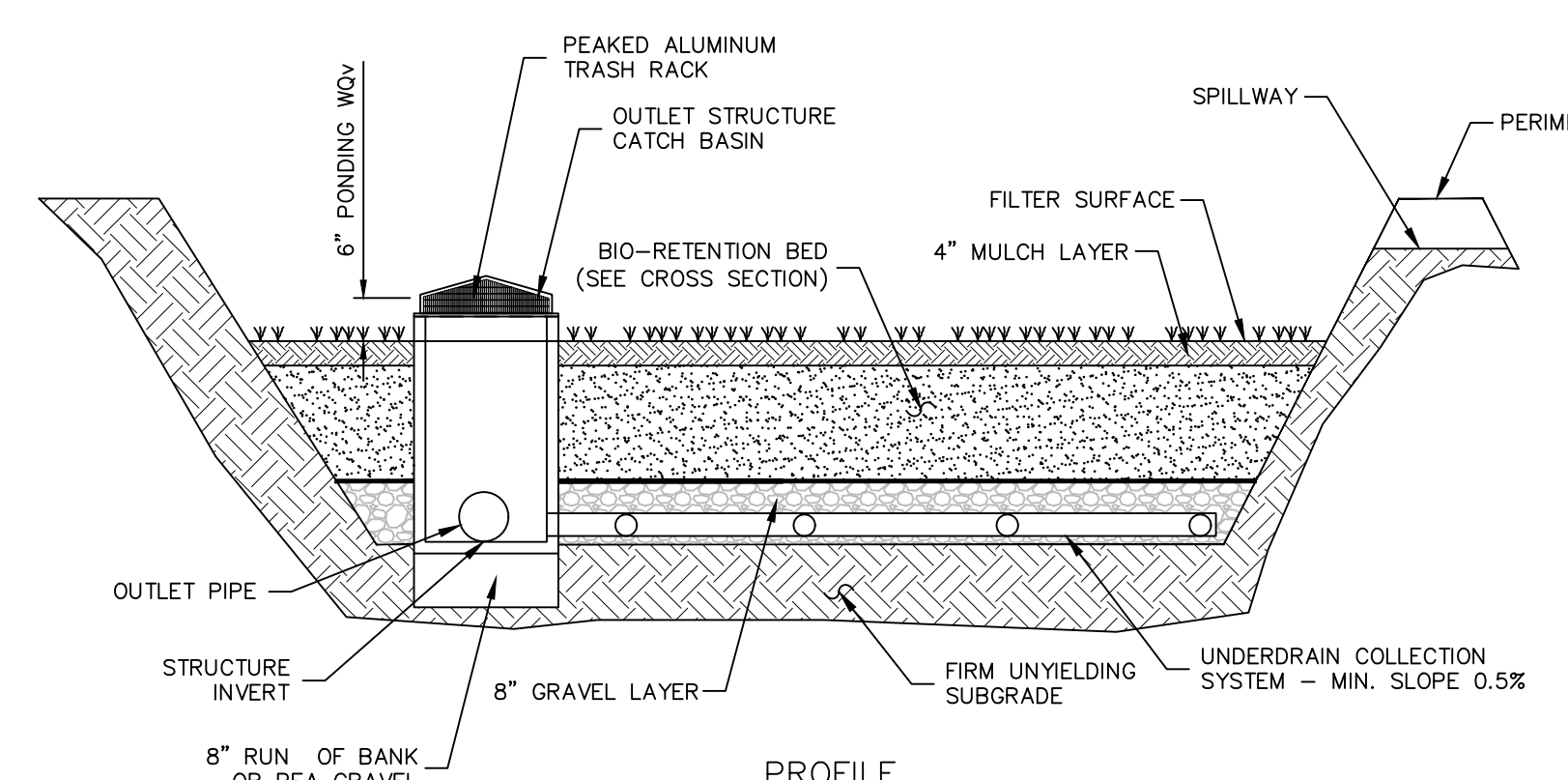
STORMWATER MANAGEMENT FACILITIES SHALL BE REGULARLY MAINTAINED TO ENSURE THEY FUNCTION AT DESIGN CAPACITY AND TO PREVENT HEALTH HAZARDS ASSOCIATED WITH DEBRIS AND STAGNANT WATER. THE PRIVATELY OWNED PORTION OF THE SYSTEM MUST BE PRIVATELY MAINTAINED.

RESPONSIBILITY FOR THE OPERATION AND MAINTENANCE OF THE STORM WATER FACILITIES, INCLUDING PERIODIC REMOVAL AND DISPOSAL OF ACCUMULATED PARTICULATE MATERIAL AND DEBRIS, BUT NOT LIMITED TO THE FOLLOWING: VISUAL INSPECTION OF ALL SYSTEM COMPONENTS AT LEAST TWICE A YEAR; VACUUMING OF ALL STORM SEWER INLETS ONCE EVERY SIX MONTHS (FREQUENCY MAY BE ADJUSTED TO ONCE A YEAR IF FIRST YEAR MAINTENANCE RECORDS INDICATE THAT SEDIMENT AND DEBRIS ACCUMULATION IS INSIGNIFICANT); REVERSE FLUSHING AND VACUUMING IF SYSTEM INSPECTION INDICATE SIGNIFICANT ACCUMULATION OF SEDIMENT IN THE PIPES; AND PERIODIC REMOVAL AND DISPOSAL OF OTHER MATERIAL AND DEBRIS, SHALL REMAIN WITH THE OWNER OR OWNERS OF THE PROPERTY, WITH PERMANENT ARRANGEMENTS THAT SHALL PASS TO ANY SUCCESSIVE OWNER, UNLESS ASSUMED BY A GOVERNMENTAL AGENCY.

IN THE EVENT THAT THE FACILITY BECOMES A DANGER TO PUBLIC SAFETY OR PUBLIC HEALTH, OR IT IS IN NEED OF MAINTENANCE, THE OWNER SHALL EFFECT SUCH MAINTENANCE AND REPAIR OF THE FACILITY IN A MANNER THAT IS APPROVED BY THE TOWN ENGINEER OR HIS DESIGNEE, IF THE OWNER FAILS TO PERFORM SUCH MAINTENANCE AND REPAIR, THE MUNICIPALITY MAY IMMEDIATELY PROCEED TO DO SO AND SHALL BILL THE COST TO THE OWNER.

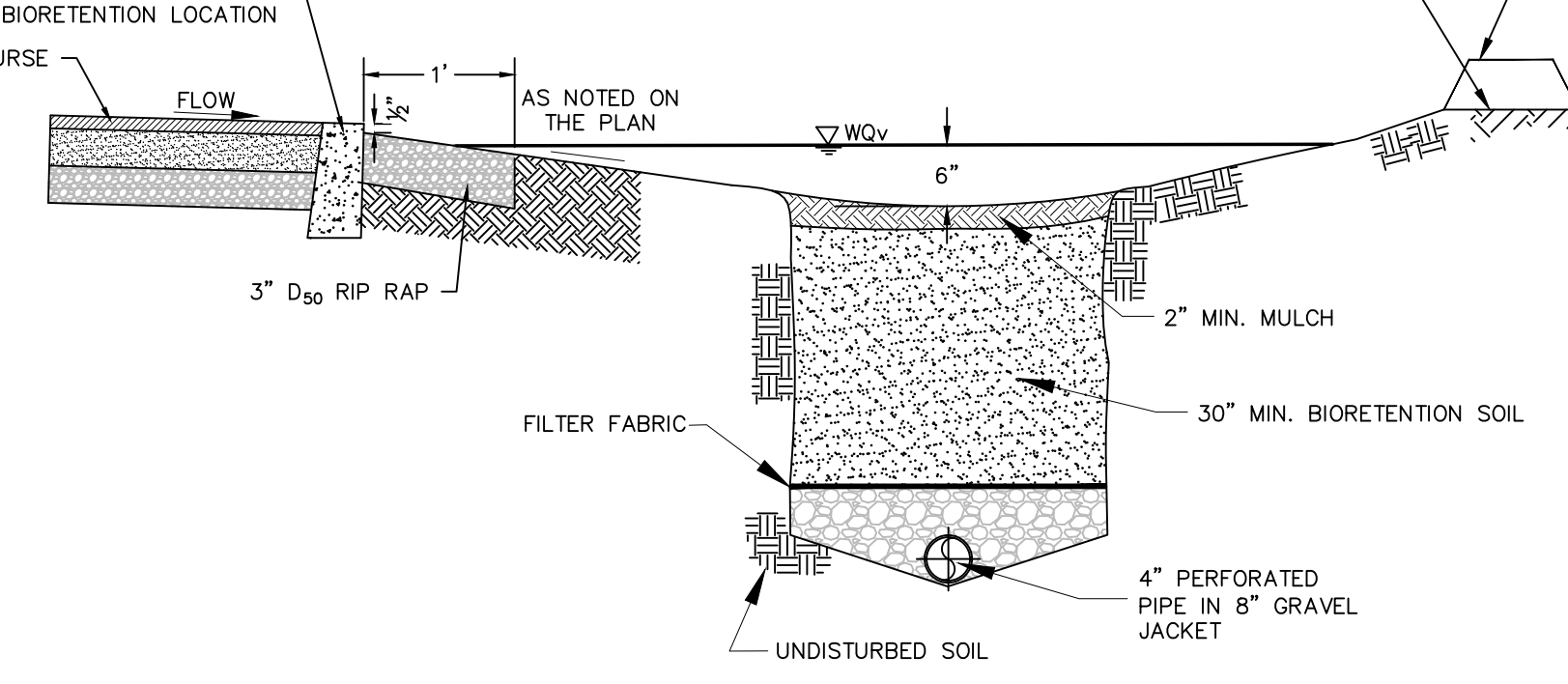
SEDIMENT TRAP & BASIN CONSTRUCTION SPECIFICATIONS:

1. THE AREA OF THE PROPOSED SEDIMENT BASIN SHALL BE USED AS A SEDIMENT TRAP PRIOR TO FINAL CONSTRUCTION OF THE INFILTRATION BASIN. SEDIMENT TRAP SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT, INCLUSION OF VEGETATION, ORGANIC MATERIAL, OR FROZEN SOIL IN THE EMBANKMENT, AS WELL AS PLACING OF EMBANKMENT MATERIAL ON A FROZEN SURFACE IS PROHIBITED.
2. THE FILL MATERIAL FOR EMBANKMENTS SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVELING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED IF POSSIBLE. MAXIMUM HEIGHT OF EMBANKMENT SHALL BE FIVE (5) FEET, MEASURED AT CENTERLINE OF EMBANKMENT. PLACE FILL IN LIFTS NOT TO EXCEED 9" AND MACHINE COMPACT.
3. ALL FILL SLOPES SHALL BE 2:1 OR FLATTER, CUT SLOPES 1:1 OR FLATTER.
4. ELEVATION OF THE TOP OF ANY DIKE DIRECTING WATER INTO TRAP MUST EQUAL OR EXCEED HEIGHT OF EMBANKMENT.
5. ENSURE THAT THE SPILLWAY CREST IS LEVEL AND AT LEAST 1.5' BELOW THE TOP OF THE DAM AT ALL POINTS.
6. FILTER CLOTH SHALL BE PLACED OVER THE BOTTOM OF THE OUTLET CHANNEL PRIOR TO PLACEMENT OF STONE. SECTIONS OF FABRIC MUST OVERLAP AT LEAST ONE (1) FOOT WITH SECTION NEAREST THE ENTRANCE PLACED ON TOP. FABRIC SHALL BE EMBEDDED AT LEAST SIX (6) INCHES INTO EXISTING GROUND AT ENTRANCE OF OUTLET CHANNEL.
7. STONE USED IN OUTLET CHANNEL SHALL BE FOUR (4) TO EIGHT (8) INCHES (RIP RAP). TO PROVIDE A FILTERING EFFECT. STONE USED FOR SPILLWAY SECTION-CLASS "B" EROSION CONTROL STONE. STONE USED ON INSIDE SPILLWAY FACE TO CONTROL DRAINAGE - D.O.T. #57 WASHED STONE. A LAYER OF FILTER CLOTH SHALL BE EMBEDDED ONE (1) FOOT WITH SECTION NEAREST ENTRANCE PLACED ON TOP. FABRIC SHALL BE EMBEDDED AT LEAST SIX (6) INCHES INTO EXISTING GROUND AT ENTRANCE OF OUTLET CHANNEL.
8. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
9. THE SEDIMENT TRAP SHALL BE INSPECTED AFTER EACH RAIN AND SHALL BE REPAIRED AS NEEDED.
10. CONSTRUCT EMBANKMENT AND STONE SPILLWAY TO DIMENSIONS, SLOPES AND ELEVATIONS SHOWN ON THE PLAN.
11. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION ARE MINIMIZED.
12. THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
13. DRAINAGE AREA FOR THIS PRACTICE IS LIMITED TO 15 ACRES.
15. ENSURE THAT THE TOP OF THE EMBANKMENT AT ALL POINTS IF 0.5' ABOVE NATURAL SURROUNDING GROUND.
16. IMMEDIATELY STABILIZE THE EMBANKMENT AND ALL DISTURBED AREAS AS IN ACCORDANCE WITH THE SPECIFICATIONS SHOWN ON THE GENERAL PLANSET AND EROSION AND SEDIMENT CONTROL PLANS.



BIORETENTION FACILITY

NOT TO SCALE



BIORETENTION BED SECTION

NOT TO SCALE

BIORETENTION PLANTING SOIL

THE PLANTING SOIL SHOULD BE A SANDY LOAM, LOAMY SAND, LOAM (USDA). OR A LOAM/SAND MIX (SHOULD CONTAIN A MINIMUM 35 TO 60% SAND, BY VOLUME). THE CLAY CONTENT FOR THESE SOILS SHOULD BE LESS THAN 25% BY VOLUME. SOILS SHOULD FALL WITHIN THE SM, OR ML CLASSIFICATIONS OF THE UNIFIED SOIL CLASSIFICATION SYSTEM (USDC). A PERMEABILITY OF AT LEAST 1.0 FEET PER DAY (0.5"/HR) IS REQUIRED (A CONSERVATIVE VALUE OF 0.5 FEET PER DAY IS USED FOR DESIGN). THE SOIL SHOULD BE FREE OF STONES, STUMPS, ROOTS, OR OTHER WOODY MATERIAL OVER 1" IN DIAMETER, AND BRUSH OR SEED FROM NOXIOUS WEEDS. PLACEMENT OF THE PLANTING SOIL SHOULD BE IN LIFTS OF 10" TO 18", LOOSELY COMPACTED (TAMPED LIGHTLY WITH A DOZER OR BACKHOE BUCKET). THE SPECIFIC CHARACTERISTICS ARE AS FOLLOWS:

PARAMETER	VALUE
PH RANGE	5.2 TO 7.0
ORGANIC MATTER	1.5 TO 4.0%
MAGNESIUM	35 LBS PER ACRE, MINIMUM
PHOSPHORUS (P ₂ O ₅)	75 LBS PER ACRE, MINIMUM
POTASSIUM (K ₂ O)	85 LBS PER ACRE, MINIMUM
SOLUBLE SALTS	500 ppm
CLAY	10 TO 25%
SILT	30 TO 55%
SAND	35 TO 65%

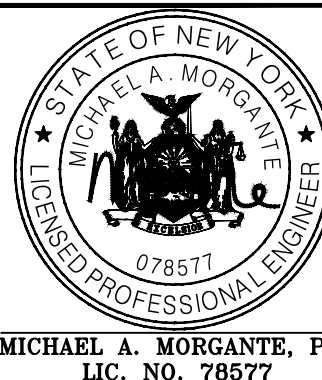
REVISION	BY	DATE	DESCRIPTION
4.	MM	12/2/21	PER PB MTG & AF COMMENT LETTER
3.	MM	9/16/21	PREPARATION OF PRELIMINARY PLANS
2.	MM	5/19/21	REVISION PER PB MTG. & COMMENT LETTERS
1.	MM	3/23/21	ROAD LAYOUT REVISION PER PB MTG.

THIS SHEET IS NOT VALID WITHOUT ALL OF THE SHEETS THAT COMPRISE THE SET

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SITE PLAN & LOT LINE COMBINATION FOR
DAVIDSON DRIVE HOLDINGS, LLC
LAKE STATION ROAD
TOWN OF CHESTER, COUNTY OF ORANGE, NY

20 STORMWATER
CONSTRUCTION DETAILS



JOB#:
20-030
SCALE:
AS NOTED
DATE:
12-17-21
DRAWN:
MM
CHECKED:
MM
SHEET NO.
1 OF 20