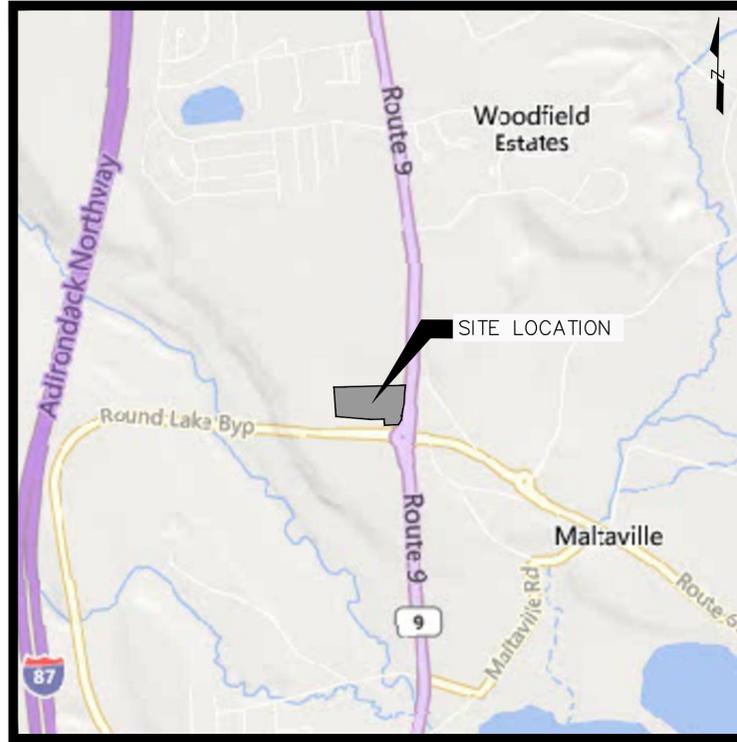


2272 NYS ROUTE 9 SITE PLAN AMENDMENT

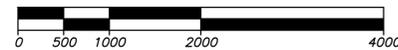
TOWN OF MALTA * SARATOGA COUNTY * NEW YORK

GENERAL NOTES:

- ENGINEERING DRAWINGS BASED ON A BOUNDARY AND TOPOGRAPHIC SURVEY PREPARED BY GILBERT VANGLINDER LAND SURVEYOR, PLLC ENTITLED "BOUNDARY & TOPOGRAPHIC SURVEY 2272 ROUTE 9" DATED APRIL 19, 2023.
- ALL TRAFFIC SIGNAGE FOR THE PROPOSED DEVELOPMENT SHALL CONFORM TO THE CURRENT VERSIONS OF THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE NEW YORK STATE SUPPLEMENTAL.
- ALL RIP-RAP STRUCTURES SHOWN SHALL BE CONSTRUCTED OF D STONE FILLING (UNLESS NOTED OTHERWISE).
- ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR URBAN EROSION AND SEDIMENT CONTROL AND IMPLEMENTED IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN.
- ALL DISTURBED AREAS TO RECEIVE TOPSOIL, SEED, FERTILIZER AND MULCH TO ESTABLISH A PERMANENT STAND OF GRASS.
- SIZE AND LOCATION OF UNDERGROUND UTILITIES ARE SUBJECT TO VERIFICATION BY THE CONTRACTOR BEFORE CONSTRUCTION BEGINS.
- PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY DIG SAFELY N.Y. OR 811 FOR VERIFICATION OF THE LOCATION OF UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO THE START OF EXCAVATION.
- ALL KNOWN UTILITIES THAT EXIST ON OR ADJACENT TO THE PROJECT SITE HAVE BEEN SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT AND PRESERVE EXISTING UTILITIES.
- ALL UTILITIES DAMAGED OR DISTURBED BY THE WORK OF THIS CONTRACT SHALL BE REPLACED IN KIND BY THE CONTRACTOR.
- CONTRACTOR SHALL OBTAIN THE REQUIRED PERMITS FOR WORK WITHIN PUBLIC RIGHTS-OF-WAY AS REQUIRED BY THE MUNICIPALITY AND ALL PERMITS REQUIRED FOR UTILITY WORK ON-SITE FROM THE TOWN.
- CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FOR WORK ON-SITE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- THERE SHALL BE NO CHANGES ON THESE PLANS IN ADVANCE OF, OR CONSTRUCTION WITHOUT PRIOR APPROVAL OF THE DESIGN ENGINEER, THE OWNER AND THE MUNICIPALITY.
- ALL CONSTRUCTION SHALL CONFORM TO GENERALLY ACCEPTED CONSTRUCTION STANDARDS OR A.O.B.E.
- THE CONTRACTOR SHALL COMPLY WITH CONSTRUCTION INSPECTION REQUIREMENTS OF ALL AGENCIES, AND PHASE WORK ACCORDINGLY.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.
- FIELD ADJUSTMENT MUST BE REVIEWED BY A REPRESENTATIVE OF LANSING ENGINEERING PRIOR TO INSTALLATION.
- PROTECT NEWLY GRADED WORK AREAS FROM TRAFFIC AND EROSION, AND KEEP THEM FREE FROM TRASH AND DEBRIS UNTIL PHYSICAL COMPLETION OF WORK.
- CONTRACTOR'S OPERATIONS ON SITE WHICH SHALL INCLUDE BUT NOT BE LIMITED TO DUST CONTROL, MATERIAL HAULING, FIRE PROTECTION, EROSION CONTROL, ETC. SHALL BE CONDUCTED IN ACCORDANCE WITH TOWN OF MALTA REQUIREMENTS.
- LOCATE EXISTING UNDERGROUND UTILITIES IN AREAS OF WORK; IF UTILITIES ARE TO REMAIN IN PLACE, PROVIDE ADEQUATE MEANS OF SUPPORT AND PROTECTION DURING EARTHWORK OPERATIONS.
- THE CONTRACTOR SHALL COORDINATE MAINTENANCE AND PROTECTION OF TRAFFIC WITH THE TOWN OF MALTA. ALL MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. ALL NECESSARY SIGNAGE SHALL BE IN ACCORDANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION'S MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- ALL UTILITY FRAMES SHALL BE SET AT THE BINDER COURSE ELEVATION AND RAISED TO THE TOP COURSE ELEVATION AT THE TIME OF TOP COURSE PLACEMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TEMPORARY WORK EASEMENTS THAT MAY BE REQUIRED FOR EXCAVATION AND ASSOCIATED DISTURBANCE OUTSIDE OF THE RIGHT-OF-WAY ON ADJACENT PRIVATE LANDS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND COORDINATE ANY REQUIRED BRACING OR RELOCATION OF ANY UTILITY POLE OR STRUCTURE WITH THE APPROPRIATE UTILITY COMPANY.
- ALL FILL TO ACHIEVE THE PROPOSED ELEVATIONS SHALL BE COMPACTED TO 95% PROCTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST AND COORDINATION OF THE TESTING AND DOCUMENTATION OF THE FILL MATERIAL AND THE COMPACTION OF THE FILL MATERIAL.
- THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT THE SURFACE OF ALL EXISTING ROADWAYS. TREE TRIMMING SHALL BE PERFORMED BY THE CONTRACTOR AS NECESSARY WITHIN THE RIGHT-OF-WAY OR UTILITY EASEMENTS. ALL DISTURBED UTILITIES, DRIVEWAY CULVERTS, LAWNS, MAILBOXES, FENCES, SIGNS, DRIVEWAYS, DITCHES ETC. SHALL BE RESTORED TO THEIR ORIGINAL OR BETTER CONDITION, LINES, GRADES AND POSITIONS.
- ALL DISTURBANCE LIMITS AND SETBACKS SHALL BE STAKED OR FLAGGED IN THE FIELD PRIOR TO BEGINNING GRADING AND CLEARING ACTIVITIES.
- WATER SERVICES AND SEWER LATERALS SHALL BE SEPARATED BY 10 FEET MINIMUM HORIZONTALLY.
- PRIOR TO CONSTRUCTION: THE LOCATION OF ALL EXISTING UTILITY POLES, OVERHEAD UTILITIES AND UNDERGROUND UTILITIES ON THE SITE SHALL BE DETERMINED BY THE CONTRACTOR. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE DESIGN ENGINEER. THE COORDINATION AND COST FOR THE RELOCATION OR MODIFICATION OF ANY UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE COSTS FOR THIS UTILITY WORK SHALL BE PROVIDED TO THE OWNER AND DESIGN ENGINEER FOR REVIEW.
- ORANGE CONSTRUCTION FENCE SHALL BE INSTALLED PRIOR TO CONSTRUCTION AROUND MATURE VEGETATIVE BUFFERS & WETLANDS TO BE PRESERVED.



SITE LOCATION MAP



SITE STATISTICS

PARCEL AREA	6.31 ± AC
PARCEL TAX ID	240.-2-28.1
EXISTING ZONING	C9 GATEWAY
MINIMUM AREA REQUIREMENTS	FRONT BUILDING SETBACK - 50' MIN. SIDE BUILDING SETBACK - 50' MIN. REAR BUILDING SETBACK - 50' MIN. PARKING SETBACK FROM PRIMARY STREET - 50' MIN. PARKING SETBACK FROM SIDE STREET - 15' MIN. SIDE PARKING SETBACK - 15' MIN. REAR PARKING SETBACK - SAME AS BUILDING SETBACK (50' MIN.) LOT SIZE - 40,000 SF MIN. LOT COVERAGE - 50% MAX. LOT FRONTAGE - 200' MIN. BUILDING HEIGHT - 40' MAX.
BUILDING PROPERTIES	(1) 3-STORY SENIOR HOUSING APARTMENT BUILDING 44 TOTAL UNITS - 19,000± SF FOOTPRINT (1) 3-STORY SENIOR HOUSING APARTMENT BUILDING 44 TOTAL UNITS - 19,000± SF FOOTPRINT
PARKING REQUIREMENTS	2 STALL PER UNIT = 176 STALLS
PARKING PROVIDED	179 STALLS (12 ACCESSIBLE STALLS)
UTILITY PROVISIONS	WATER - SARATOGA WATER SERVICES SEWER - MUNICIPAL CONNECTION (SCSD#1) STORMWATER - ONSITE MITIGATION
SITE COVERAGE STATISTICS	BUILDING COVERAGE 38,000 SF = 13.8% PARKING COVERAGE 31,195 SF = 11.3% GREENSPACE 152,549 SF = 55.5% PAVED/SIDEWALK COVERAGE 84,474 SF = 30.7%
WETLAND DISTURBANCE	±0.071 ACRES (±0.005 AMENDMENT)
AMENITY SPACE	REQUIRED = 12,360± SF (5% DEVELOPED AREA) PROVIDED = 16,238± SF

SHEET LIST TABLE		
SHEET NUMBER	SHEET DESIGNATION	SHEET DESCRIPTION
1	COV-1	COVER SHEET
2	ED-1	EXISTING CONDITIONS & DEMOLITION PLAN
3	LM-1	LAYOUT & MATERIALS PLAN
4	UG-1	UTILITIES & GRADING PLAN
5	SG-1	SPOT GRADING PLAN
6	EA-1	EMERGENCY ACCESS PLAN
7	ESC-1	EROSION & SEDIMENT CONTROL PLAN
8	LS-1	LANDSCAPING PLAN
9	LT-1	LIGHTING PLAN
10	DT-1	EROSION & SEDIMENT CONTROL DETAILS
11	DT-2	STORM SEWER DETAILS
12	DT-3	SANITARY SEWER DETAILS
13	DT-4	GRINDER PUMP DETAILS
14	DT-5	WATER SYSTEM DETAILS (1 OF 2)
15	DT-6	WATER SYSTEM DETAILS (2 OF 2)
16	DT-7	MISCELLANEOUS SITE DETAILS (1 OF 3)
17	DT-8	MISCELLANEOUS SITE DETAILS (2 OF 3)
18	DT-9	MISCELLANEOUS SITE DETAILS (3 OF 3)
19	DT-10	STORMWATER MANAGEMENT SYSTEM DETAILS (1 OF 2)
20	DT-11	STORMWATER MANAGEMENT SYSTEM DETAILS (2 OF 2)

SOIL APPRAISAL - DEEP HOLE TESTS - PERFORMED 4/14/2023 BY LANSING ENGINEERING			
TEST PIT #1	0-6" TOPSOIL & ORGANICS 6"-40" MEDIUM BROWN SILTY CLAY W/ SHALE FRAGMENTS 40"-78" SHALE - BREAKABLE 78" SHALE/BEDROCK	TEST PIT #2	0-8" TOPSOIL & ORGANICS 8"-42" MEDIUM BROWN SILTY CLAY 42"-88" BLACK CLAY 20" MOTTLING NO GROUNDWATER
TEST PIT #3	0-8" TOPSOIL & ORGANICS 8"-36" MEDIUM BROWN SILTY CLAY 36"-60" BLACK CLAY 60"-78" MEDIUM BROWN & BLACK CLAY 78" SHALE	TEST PIT #4	0-9" LOAMY TOPSOIL & ORGANICS 9"-48" MEDIUM BROWN SILTY CLAY 48"-72" BLACK CLAY 72" SHALE 24" MOTTLING NO GROUNDWATER
TEST PIT #5	0-12" TOPSOIL & ORGANICS 12"-32" MEDIUM BROWN SILTY CLAY 32"-62" SHALE 62" HARD SHALE	TEST PIT #6	0-12" TOPSOIL & ORGANICS 12"-30" LIGHT TO MEDIUM BROWN CLAY 30"-48" SHALE 48" HARD SHALE 12" MOTTLING NO GROUNDWATER
TEST PIT #7	0-12" TOPSOIL & ORGANICS 12"-20" LIGHT TO MEDIUM BROWN CLAY 20"-48" SHALE 48" HARD SHALE	TEST PIT #8	0-8" TOPSOIL & ORGANICS 8"-20" LIGHT BROWN CLAY 20"-50" SHALE 50" HARD SHALE 8" MOTTLING NO GROUNDWATER
TEST PIT #9	0-12" TOPSOIL & ORGANICS 12"-24" LIGHT BROWN CLAY 24"-56" SHALE 56" HARD SHALE		
	12" MOTTLING 50" GROUNDWATER		

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2272 NYS ROUTE 9 SITE PLAN AMENDMENT
 2272 NYS ROUTE 9, TOWN OF MALTA, SARATOGA COUNTY, NEW YORK

REVISIONS RECORD/DESCRIPTION
 DATE
 12/7/24 REVISIONS PER TOWN PLANNING & TDE COMMENTS
 2/19/25 REVISIONS PER TOWN PLANNING & TDE COMMENTS
 4/23/25 REVISIONS PER TOWN WATER COMMENTS

2456 STATE ROUTE 9 SUITE 301 - MALTA, NY 12020 - (518) 888-9243

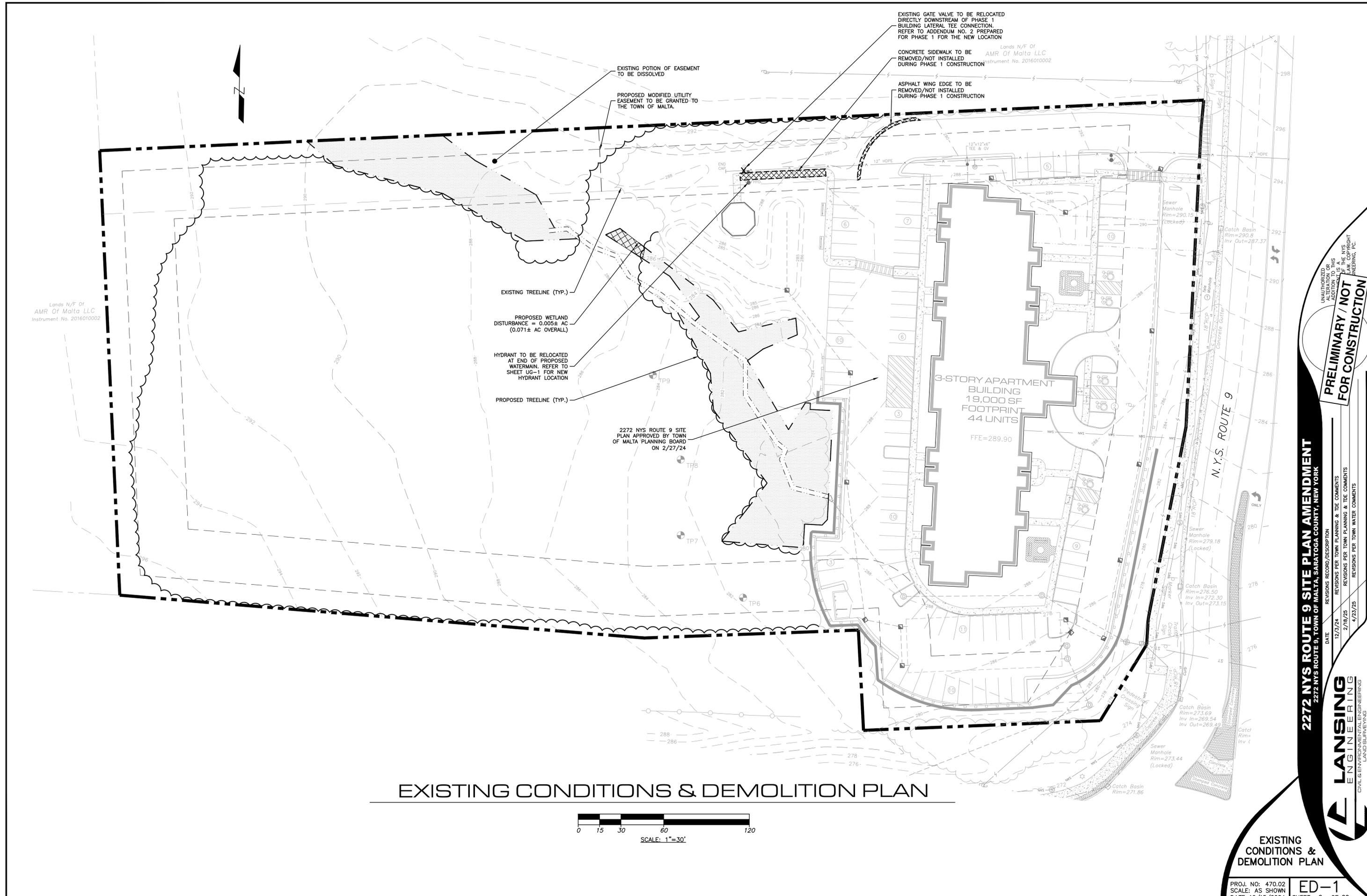
LANSING ENGINEERING
 CIVIL/ENVIRONMENTAL ENGINEERING
 LAND SURVEYING

COVER SHEET

APPLICANT:
 JOSEPH ASCHAUER
 25 SNOWBERRY ROAD
 MALTA, NY 12020

PROJ. NO: 470.02
 SCALE: AS SHOWN
 DATE: 10/15/2024

COV-1
 SHEET 1 OF 20



Lands N/F Of
AMR Of Malta LLC
Instrument No. 2016010002

EXISTING GATE VALVE TO BE RELOCATED
DIRECTLY DOWNSTREAM OF PHASE 1
BUILDING LATERAL TEE CONNECTION.
REFER TO ADDENDUM NO. 2 PREPARED
FOR PHASE 1 FOR THE NEW LOCATION

EXISTING PORTION OF EASEMENT
TO BE DISSOLVED

PROPOSED MODIFIED UTILITY
EASEMENT TO BE GRANTED TO
THE TOWN OF MALTA.

CONCRETE SIDEWALK TO BE
REMOVED/NOT INSTALLED
DURING PHASE 1 CONSTRUCTION

ASPHALT WING EDGE TO BE
REMOVED/NOT INSTALLED
DURING PHASE 1 CONSTRUCTION

EXISTING TREELINE (TYP.)

PROPOSED WETLAND
DISTURBANCE = 0.005± AC
(0.071± AC OVERALL)

HYDRANT TO BE RELOCATED
AT END OF PROPOSED
WATERMAIN. REFER TO
SHEET UG-1 FOR NEW
HYDRANT LOCATION

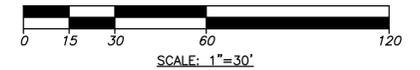
PROPOSED TREELINE (TYP.)

2272 NYS ROUTE 9 SITE
PLAN APPROVED BY TOWN
OF MALTA PLANNING BOARD
ON 2/27/24

3-STORY APARTMENT
BUILDING
19,000 SF
FOOTPRINT
44 UNITS
FFE=289.90

N.Y.S. ROUTE 9

EXISTING CONDITIONS & DEMOLITION PLAN



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2272 NYS ROUTE 9 SITE PLAN AMENDMENT
2272 NYS ROUTE 9, TOWN OF MALTA, SARATOGA COUNTY, NEW YORK

LANSING
ENGINEERING
CIVIL/ENVIRONMENTAL/ENGINEERING
LAND SURVEYING

EXISTING
CONDITIONS &
DEMOLITION PLAN

PROJ. NO: 470.02
SCALE: AS SHOWN
DATE: 10/15/2024

ED-1
SHEET 2 OF 20

Lands N/F Of
AMR Of Malta LLC
Instrument No. 2016010002

CONCRETE SIDEWALK TO BE REPLACED.
REFER TO SHEET UG-1 FOR
REPLACEMENT SIDEWALK ELEVATIONS

PROPOSED MAILBOX KIOSK AREA

2272 NYS ROUTE 9 SITE PLAN
APPROVED BY TOWN OF MALTA
PLANNING BOARD ON 2/27/24

UTILITY AND ACCESS EASEMENT ESTABLISHED FOR
2272 NYS ROUTE 9 SITE PLAN TO BE MODIFIED
FOR PROPOSED SITE PLAN AMENDMENT

PROPOSED BENCH
LOCATED AROUND
NATURE TRAIL (TYP.)

PROPOSED MODIFIED DEED
RESTRICTED CONSERVATION
AREA = 0.65± AC (TYP.)

PROPOSED DUMPSTER
(TYP.)

Lands N/F Of
AMR Of Malta LLC
Instrument No. 2016010002

PROPOSED SNOW
STORAGE AREA (TYP.)

PROPOSED STANDARD
PAVEMENT EDGE (TYP.)

PROPOSED CONCRETE
SIDEWALK (TYP.)

TRAIL TO INCLUDE BOARDWALK AT
PROPOSED STREAM CROSSING

PROPOSED CROSSWALK
(TYP.)

PROPOSED 6" CONCRETE CURB
(TYP.)

PROPOSED AMENITY
SPACE TRAIL (TYP.)

PROPOSED 2' WIDE
ASPHALT WING EDGE
(TYP.)

PROPOSED RETAINING WALL
TO BE DESIGNED BY A
LICENSED ENGINEER (TYP.).
WALL TO INCLUDE 4"
DECORATIVE FENCING
ALONG TOP OF WALL.

PROPOSED TREELINE
(TYP.)

PROPOSED SPLIT RAIL
FENCE AROUND STORMWATER
MANAGEMENT BASIN (TYP.)

PROPOSED BIKE RACKS
(TYP.)

PROPOSED PAVER AREA
W/ PARK BENCHES (TYP.)

3-STORY APARTMENT
BUILDING
19,000 SF
FOOTPRINT
44 UNITS
FFE=291.50

3-STORY APARTMENT
BUILDING
19,000 SF
FOOTPRINT
44 UNITS
FFE=289.90

N.Y.S. ROUTE 9

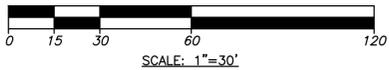
APPROXIMATE LOCATION AND
DIRECTION OF SIGN

TRAFFIC CONTROL DEVICE SCHEDULE

PLAN NO.	DESCRIPTION	QTY.
1	"VAN ACCESSIBLE" HANDICAP RESERVED PARKING SIGN	4
2	"NO PARKING" SIGN	2
3	STORMWATER WARNING SIGN (REFER TO DT-7)	3
4	R1-1 STOP SIGN	1
5	BUILDING #2 AHEAD SIGN	1

NOTE:
1. ALL TRAFFIC CONTROL SIGNS SHALL BE ON EITHER DIAMOND GRADE OR HIGH INTENSITY PRISMATIC SHEETING REFLECTIVITY.

LAYOUT & MATERIALS PLAN



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2272 NYS ROUTE 9 SITE PLAN AMENDMENT
2272 NYS ROUTE 9, TOWN OF MALTA, SARATOGA COUNTY, NEW YORK

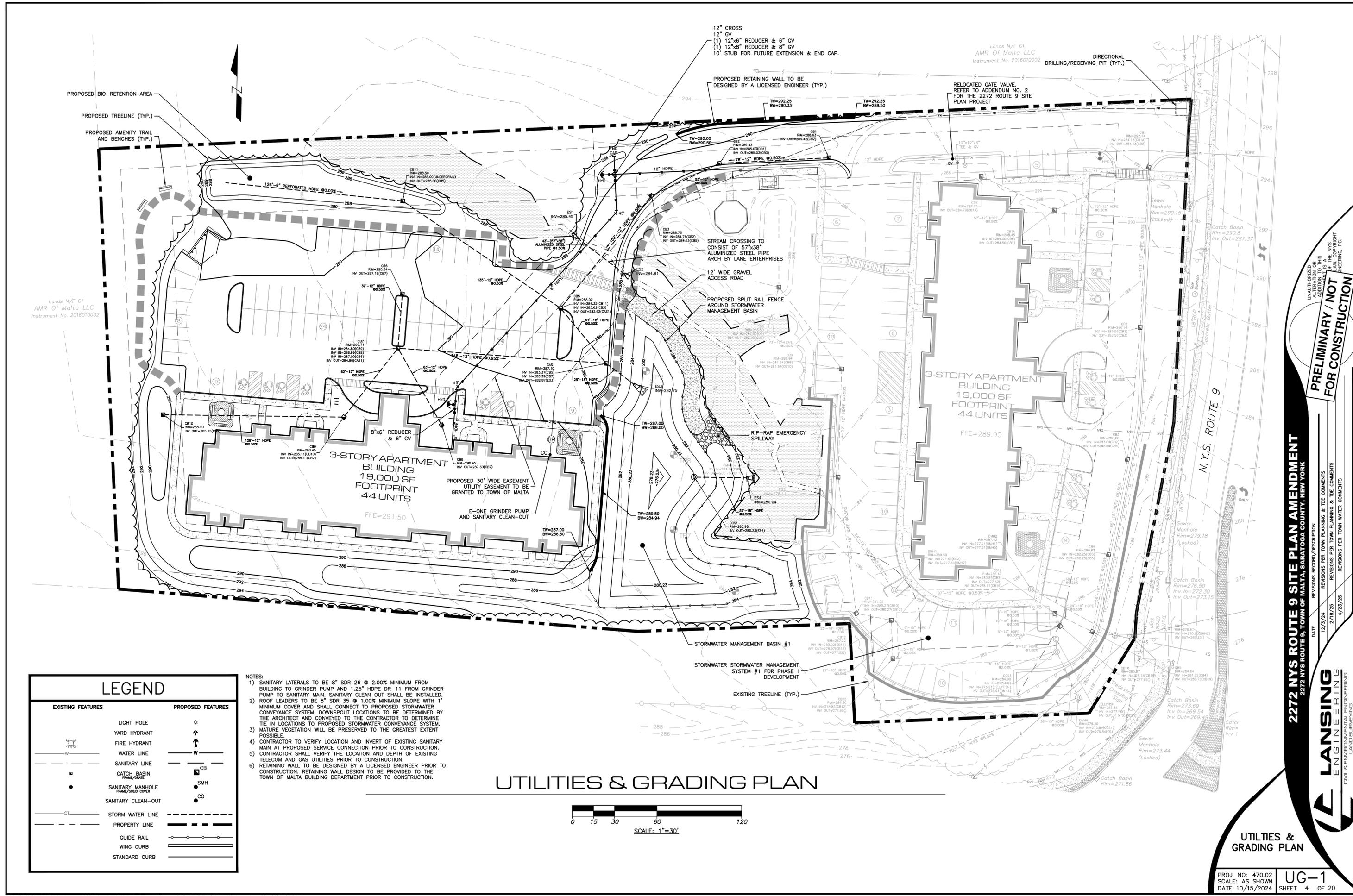
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LANSING
ENGINEERING
CIVIL/ENVIRONMENTAL/ENGINEERING
LAND SURVEYING

LAYOUT &
MATERIALS PLAN

PROJ. NO: 470.02
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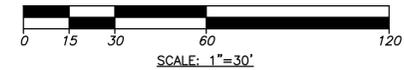
LM-1
SHEET 3 OF 20



LEGEND	
EXISTING FEATURES	PROPOSED FEATURES
	LIGHT POLE
	YARD HYDRANT
	FIRE HYDRANT
	WATER LINE
	SANITARY LINE
	CATCH BASIN FRAME/GRATE
	SANITARY MANHOLE FRAME/SOLID COVER
	SANITARY CLEAN-OUT
	STORM WATER LINE
	PROPERTY LINE
	GUIDE RAIL
	WING CURB
	STANDARD CURB

- NOTES:
- 1) SANITARY LATERALS TO BE 8" SDR 26 @ 2.00% MINIMUM FROM BUILDING TO GRINDER PUMP AND 1.25" HDPE DR-11 FROM GRINDER PUMP TO SANITARY MAIN. SANITARY CLEAN OUT SHALL BE INSTALLED. ROOF LEADERS TO BE 8" SDR 35 @ 1.00% MINIMUM SLOPE WITH 1" MINIMUM COVER AND SHALL CONNECT TO PROPOSED STORMWATER CONVEYANCE SYSTEM. DOWNSPOUT LOCATIONS TO BE DETERMINED BY THE ARCHITECT AND CONVEYED TO THE CONTRACTOR TO DETERMINE THE IN LOCATIONS TO PROPOSED STORMWATER CONVEYANCE SYSTEM. MATURE VEGETATION WILL BE PRESERVED TO THE GREATEST EXTENT POSSIBLE.
 - 2) CONTRACTOR TO VERIFY LOCATION AND INVERT OF EXISTING SANITARY MAIN AT PROPOSED SERVICE CONNECTION PRIOR TO CONSTRUCTION.
 - 3) CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF EXISTING TELCOM AND GAS UTILITIES PRIOR TO CONSTRUCTION.
 - 4) RETAINING WALL TO BE DESIGNED BY A LICENSED ENGINEER PRIOR TO CONSTRUCTION. RETAINING WALL DESIGN TO BE PROVIDED TO THE TOWN OF MALTA BUILDING DEPARTMENT PRIOR TO CONSTRUCTION.

UTILITIES & GRADING PLAN



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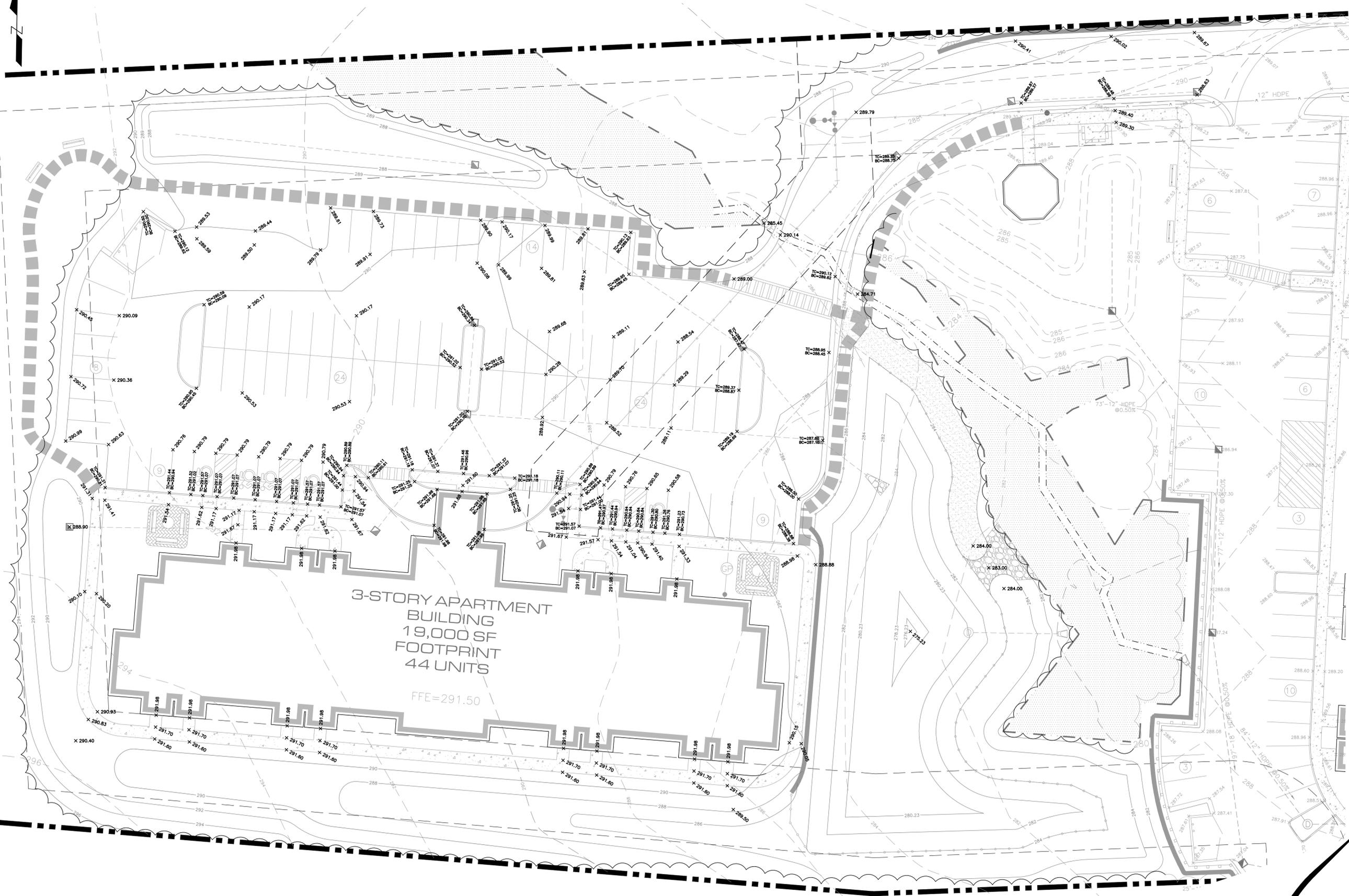
2272 NYS ROUTE 9 SITE PLAN AMENDMENT
 2272 NYS ROUTE 9, TOWN OF MALTA, SARATOGA COUNTY, NEW YORK

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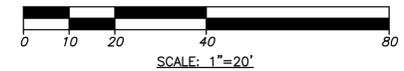
UTILITIES &
GRADING PLAN

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 DATE: 10/15/2024
 UG-1
 SHEET 4 OF 20

LLC
110002



SPOT GRADING PLAN



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2272 NYS ROUTE 9 SITE PLAN AMENDMENT
2272 NYS ROUTE 9, TOWN OF MALTA, SARATOGA COUNTY, NEW YORK

LANSING
ENGINEERING
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12/7/24	REVISIONS PER TOWN PLANNING & TID COMMENTS
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4/23/25	REVISIONS PER TOWN WATER COMMENTS

2456 STATE ROUTE 9 SUITE 301 - MALTA, NY 12020 (618) 889-5243

SPOT GRADING
PLAN

PROJ. NO: 470.02
SCALE: AS SHOWN
DATE: 10/15/2024

SG-1
SHEET 5 OF 20

TABLE 5.3 SOIL RESTORATION REQUIREMENTS*

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

* TAKEN FROM PAGE 5-19 OF NEW YORK STATE STORMWATER DESIGN MANUAL (JANUARY, 2015)
 ** AERATION INCLUDES THE USE OF MACHINES SUCH AS TRACTOR-DRAWN IMPLEMENTS WITH COULTERS MAKING A NARROW SLIT IN THE SOIL, A ROLLER WITH MANY SPIKES MAKING INDENTATIONS IN THE SOIL, OR PRONGS WHICH FUNCTION LIKE A MINI-SUBSOILER.
 *** PER "DEEP RIPPING AND DE-COMPACTION, DEC 2008". A COPY IS INCLUDED WITHIN THE APPROVED SWPPP

MAINTENANCE OF EROSION CONTROL MEASURES

THE DEVELOPER/CONTRACTOR OR THEIR BUILDER SHALL INSPECT AND MAINTAIN THE INTEGRITY AND FUNCTION OF ALL TEMPORARY EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF THE DEVELOPMENT PROCESS. TO ASSURE PROPER FUNCTION, SILTATION BARRIERS SHALL BE MAINTAINED IN GOOD CONDITION AND REINFORCED, EXTENDED, REPAIRED OR REPLACED AS NECESSARY. WASHOUTS SHALL BE IMMEDIATELY REPAIRED, RE-SEEDING AND PROTECTED FROM FURTHER EROSION. ALL ACCUMULATED SEDIMENT SHALL BE REMOVED AND CONTAINED IN APPROPRIATE SPOIL AREAS. WATER SHALL BE APPLIED TO NEWLY SEEDED AREAS AS NEEDED UNTIL GRASS COVER IS WELL ESTABLISHED. TO EFFECTIVELY CONTROL WIND EROSION, WATER SHALL BE APPLIED TO ALL EXPOSED SOILS AS NECESSARY UNTIL GROUND COVER IS PERMANENTLY ESTABLISHED.

RECOMMENDED SOIL EROSION AND SEDIMENT CONTROL MEASURES

MEASURES SHOWN ARE TO DEFINE INTENT. ACTUAL MEASURES WILL BE IMPLEMENTED AS SITE CONDITIONS WARRANT BY THE CONTRACTOR. CONTRACTOR SHALL PROVIDE ALL NEEDED CONTROL MEASURES TO PREVENT SOIL EROSION.

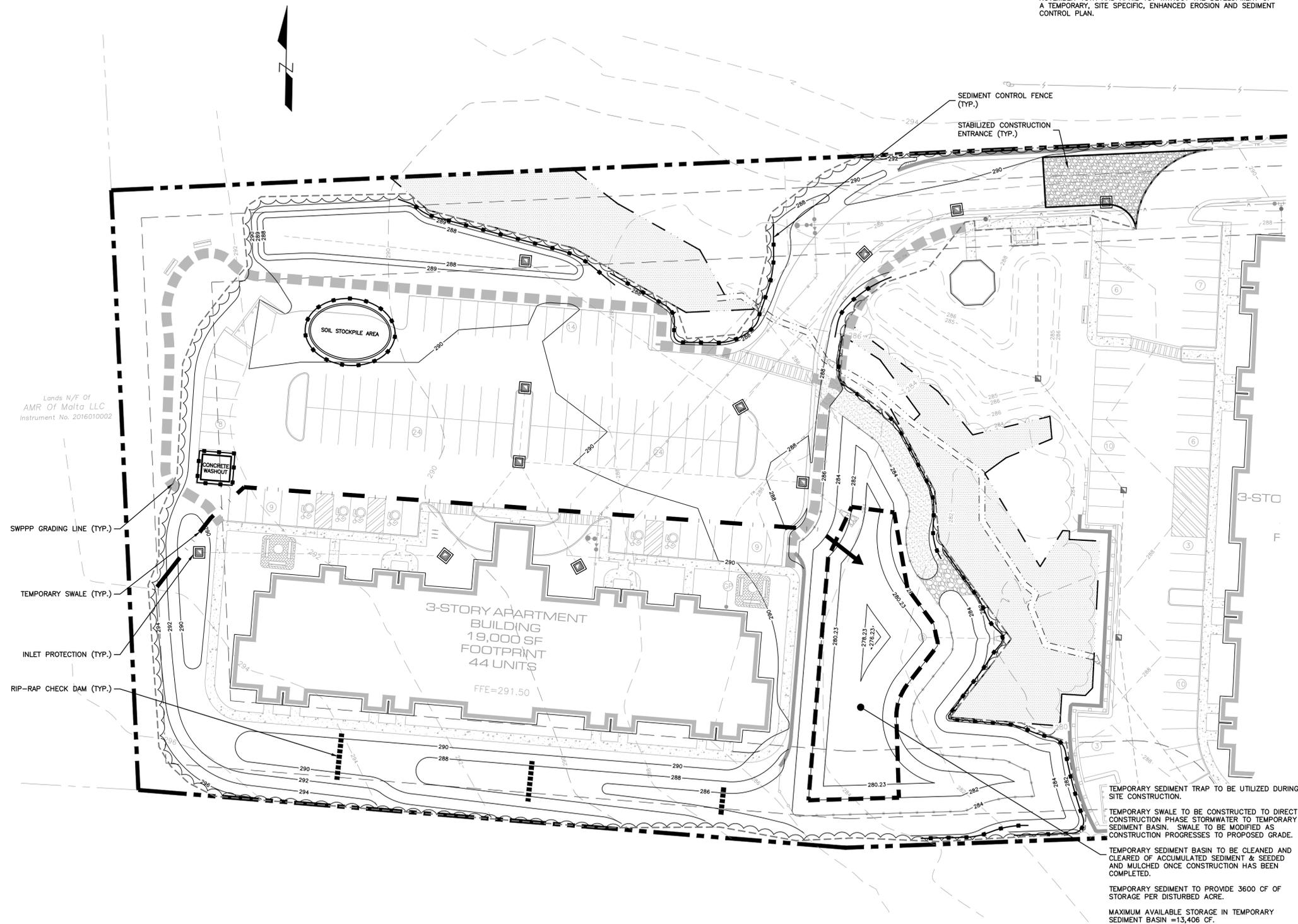
GENERAL MEASURES:

- DAMAGE TO SURFACE WATERS RESULTING FROM EROSION AND SEDIMENTATION SHALL BE MINIMIZED BY STABILIZING DISTURBED AREAS AND BY REMOVING SEDIMENT FROM CONSTRUCTION SITE.
- INsofar AS PRACTICABLE, EXISTING VEGETATION SHALL BE PRESERVED. FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES IN ANY PORTION OF THE SITE, PERMANENT VEGETATION SHALL BE ESTABLISHED ON ALL EXPOSED SOILS.
- SITE PREPARATION ACTIVITIES SHALL BE PLANNED TO MINIMIZE THE AREA AND DURATION OF SOIL DISRUPTION.
- PERMANENT TRAFFIC CORRIDORS SHALL BE ESTABLISHED AND "ROUTES OF CONVENIENCE" SHALL BE AVOIDED.

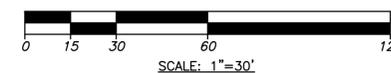
PARTICULAR MEASURES:

- IMMEDIATELY FOLLOWING COMPLETION OF ANY AND ALL OF THE PROPOSED STORM DRAIN INLETS, STORM DRAIN INLET PROTECTION SHALL BE CONSTRUCTED.
- DRAINAGE DITCH SEDIMENT FILTERS: UNTIL SUCH TIME AS FINAL SITE STABILIZATION IS COMPLETED, DITCHES SHALL RECEIVE TREATMENT WITH STONE CHECK DAMS SO AS TO EFFECTIVELY TRAP SEDIMENT AND MINIMIZE ITS RELEASE OFF-SITE. STONE CHECK DAMS SHALL BE CONSTRUCTED WITHIN EACH DITCH BEGINNING AT ITS DOWNSTREAM TERMINUS AND SHOULD NOT BE PLACED AT INTERVALS EXCEEDING 20 FEET.
- TOPSOIL AND FILL THAT IS TO REMAIN STOCKPILED ON-SITE FOR PERIODS GREATER THAN 14-DAYS SHALL BE STABILIZED BY SEEDING AND MULCHING. PROVIDE SILT FENCE EROSION CONTROL DOWNGRADIENT OF SOIL STOCKPILE AREA.
- IN NO CASE SHALL ERODIBLE MATERIALS BE STOCKPILED WITHIN 25 FEET OF ANY DITCH, STREAM, OR OTHER SURFACE WATER BODY.
- PERMANENT VEGETATIVE COVER: IMMEDIATELY FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES IN ANY PORTION OF THE SITE, PERMANENT VEGETATION SHALL BE ESTABLISHED ON ALL EXPOSED SOILS.
- ALL HEALTHY TREES OF DESIRABLE SPECIES ARE TO BE PROTECTED FROM DAMAGE. ALL UNNECESSARY REMOVAL OF HEALTHY TREES SHALL BE AVOIDED.
- THE CONTRACTOR IS TO ADHERE TO ALL REQUIREMENTS SET FORTH IN THE SWPPP.
- WETLAND PROTECTION FENCE SHALL BE INSTALLED ALONG THE PERIMETER OF WETLANDS PRIOR TO THE START OF CONSTRUCTION.

NOTES:
 1) NO DISTURBANCE ACTIVITIES SHALL TAKE PLACE BETWEEN NOVEMBER 15TH AND APRIL 1ST WITHOUT THE DEVELOPMENT OF A TEMPORARY, SITE SPECIFIC, ENHANCED EROSION AND SEDIMENT CONTROL PLAN.



EROSION & SEDIMENT CONTROL PLAN



LEGEND	
	SILT FENCE
	INLET PROTECTION
	CHECK DAM

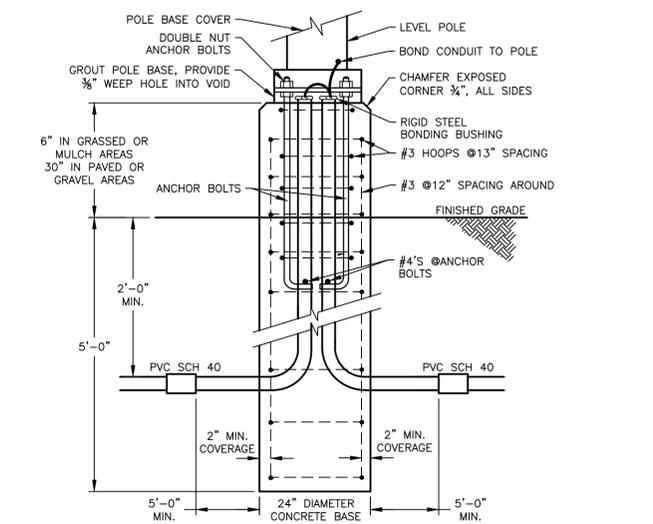
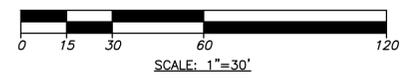
TEMPORARY SEDIMENT TRAP TO BE UTILIZED DURING SITE CONSTRUCTION.
 TEMPORARY SWALE TO BE CONSTRUCTED TO DIRECT CONSTRUCTION PHASE STORMWATER TO TEMPORARY SEDIMENT BASIN. SWALE TO BE MODIFIED AS CONSTRUCTION PROGRESSES TO PROPOSED GRADE.
 TEMPORARY SEDIMENT BASIN TO BE CLEANED AND CLEARED OF ACCUMULATED SEDIMENT & SEEDED AND MULCHED ONCE CONSTRUCTION HAS BEEN COMPLETED.
 TEMPORARY SEDIMENT TO PROVIDE 3600 CF OF STORAGE PER DISTURBED ACRE.
 MAXIMUM AVAILABLE STORAGE IN TEMPORARY SEDIMENT BASIN =13,406 CF.

2272 NYS ROUTE 9 SITE PLAN AMENDMENT
 2272 NYS ROUTE 9, TOWN OF MALTA, SARATOGA COUNTY, NEW YORK
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 12/7/24 2/19/25 4/23/25
 2452 STATE ROUTE 9 SUITE 301 - MALTA, NY 12020 - (518) 899-9243
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EROSION & SEDIMENT CONTROL PLAN
 PROJ. NO: 470.02
 SCALE: AS SHOWN
 DATE: 10/15/2024
ESC-1
 SHEET 7 OF 20



LANDSCAPING PLAN



1 TYPICAL POLE MOUNTING DETAIL
SCALE: NTS

Symbol	Label	Image	QTY	Manufacturer	Catalog	Description	Number Lamps	Lamp Output	Input Power
	A		5	Lithonia Lighting	DSX1 LED P2 30K 70CRI T3M HS	D-Series Size 1 Area Luminaire P2 Performance Package 3000K CCT 70 CRI Type 3 Medium Houseside Shield	1	8120	67.7927
	B		13	Lithonia Lighting	DSXW1 LED 10C 700 30K T3M MVOLT HS	DSXW1 LED WITH (1) 10 LED LIGHT ENGINES, TYPE T3M OPTIC, 3000K @ 700mA WITH HOUSE-SIDE SHIELDS.	1	2057	26.2
	C		11	Lithonia Lighting	DSXW1 LED 10C 700 30K T3M MVOLT HS	DSXW1 LED WITH (1) 10 LED LIGHT ENGINES, TYPE T3M OPTIC, 3000K @ 700mA WITH HOUSE-SIDE SHIELDS.	1	2057	26.2
	D		3	Lithonia Lighting	DSX1 LED P2 30K 70CRI T3M HS	D-Series Size 1 Area Luminaire P2 Performance Package 3000K CCT 70 CRI Type 3 Medium Houseside Shield	1	8120	135.5854
	E		2	Lithonia Lighting	DSXB LED 16C 700 30K SYM	D-Series Bollard with 16 LEDS Operated at 700mA and Symmetric Distribution	1	2801	39

*AVERAGE FOOTCANDLES IN THE PARKING AREA = 0.4

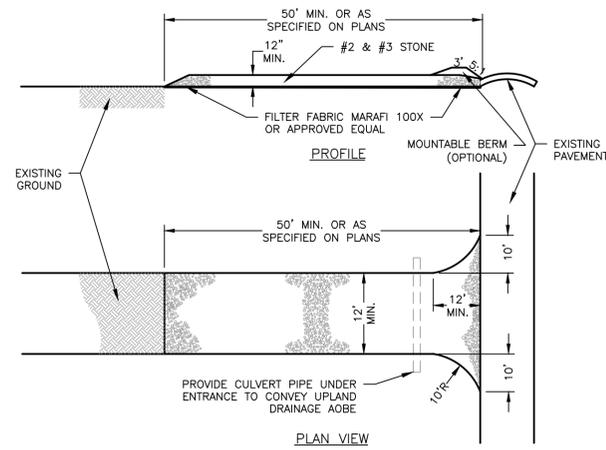
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 2272 NYS ROUTE 9, TOWN OF MALTA, SARATOGA COUNTY, NEW YORK

LANSING ENGINEERING
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 LAND SURVEYING

LIGHTING PLAN

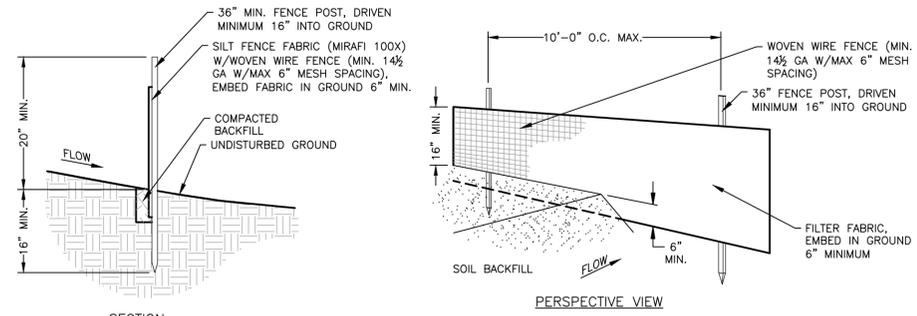
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 LT-1
 SHEET 9 OF 20



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

1 STABILIZED CONSTRUCTION ENTRANCE

SCALE: NTS



CONSTRUCTION SPECIFICATIONS

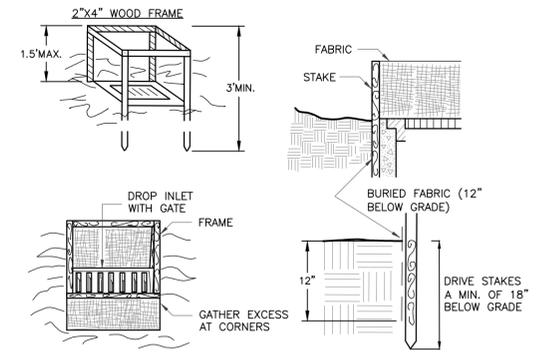
- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
- FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 12 GA, 6" MAXIMUM MESH OPENING.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY (6) INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
- PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SLOPE	STEEPNESS	SLOPE LENGTH/FENCE LENGTH (FT)		
		STANDARD	REINFORCED	SUPER
<2%	<50:1	300/1500	N/A	N/A
2-10%	50:1 TO 10:1	125/1000	250/2000	300/2500
10-20%	10:1 TO 5:1	100/750	150/1000	200/1000
20-33%	5:1 TO 3:1	60/500	80/750	100/1000
33-50%	3:1 TO 2:1	40/250	70/350	100/500
>50%	>2:1	20/125	30/175	50/250

STANDARD SILT FENCE (SF) IS FABRIC ROLLS STAPLED TO WOODEN STAKES DRIVEN 16" IN THE GROUND.
REINFORCED SILT FENCE (RSF) IS FABRIC PLACED AGAINST WELDED WIRE FABRIC WITH ANCHORED STEEL POSTS DRIVEN 16" IN THE GROUND.
SUPER SILT FENCE (SSF) IS FABRIC PLACED AGAINST CHAIN LINK FENCE AS SUPPORT BACKING WITH POSTS DRIVEN 3" IN THE GROUND.

2 SEDIMENT CONTROL FENCE

SCALE: NTS



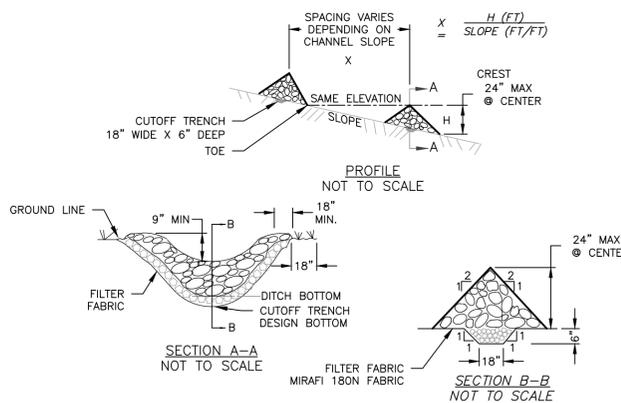
CONSTRUCTION SPECIFICATIONS

- FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
- CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
- STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH OF 3 FEET.
- SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
- FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
- A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.

**MAXIMUM DRAINAGE AREA 1 ACRE.

3 FABRIC DROP INLET PROTECTION

SCALE: NTS

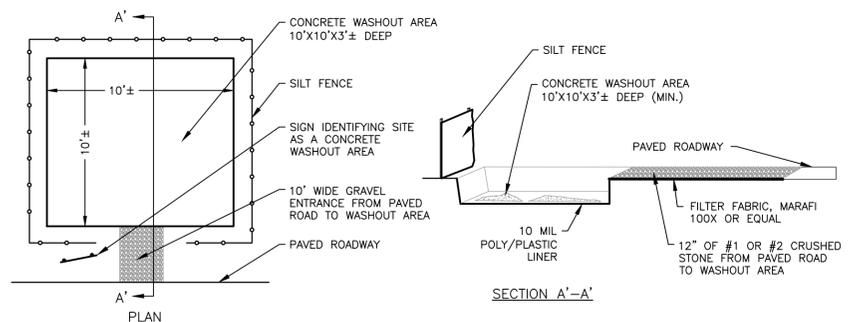


CONSTRUCTION SPECIFICATIONS

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

4 STONE CHECK DAM DETAIL

SCALE: NTS



CONSTRUCTION SPECIFICATIONS

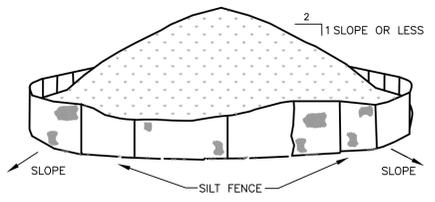
- CONCRETE WASHOUT LOCATION SHALL BE A MINIMUM OF 100' FROM SENSITIVE AREAS.
- THE BASIN DIMENSIONS DEPICTED ABOVE ARE REQUIRED MINIMUMS. CONCRETE WASHOUT FACILITY SHALL BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS. (APPROX. 60 GAL. OF WATER/WASTE PER TRUCK)
- PLASTIC LINING MATERIAL SHALL BE 10 MIL(MINIMUM) POLY SHEETING AND BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL. LINER TO BE ANCHORED BEYOND THE TOP OF THE PIT WITH AN EARTHEN BERM, SAND BAGS, OR STONE.
- WASHOUT FACILITY MUST BE CLEANED OR NEW FACILITIES MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL.

5 CONCRETE WASHOUT AREA

SCALE: NTS

MAINTENANCE AND CLEANING

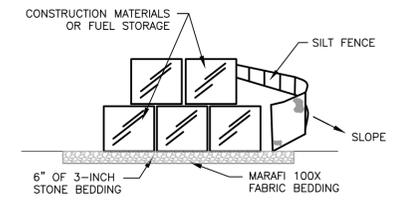
- DO NOT DISCHARGE LIQUID OR SLURRY TO WATERWAYS, STORM DRAINS OR DIRECTLY ONTO GROUND.
- DO NOT USE SANITARY SEWER WITHOUT LOCAL APPROVAL.
- PLACE A SECURE NON-COLLAPSING, NON-WATER COLLECTING COVER OVER THE FACILITY PRIOR TO PREDICTED WET WEATHER TO PREVENT ACCUMULATION AND OVERFLOW.
- REMOVE AND DISPOSE OF HARDENED CONCRETE AND RETURN THE STRUCTURE TO A FUNCTIONAL STATE.
- INSPECT THE WASHOUT FACILITY FOR SIGNS OF WEAKENING OR DAMAGE AND REPAIR AS NECESSARY (RE-LINE THE STRUCTURE WITH NEW POLY SHEETING AFTER EACH CLEANING).



SOIL STOCKPILE

6 MATERIAL STORAGE & SOIL STOCKPILE STABILIZATION DETAIL

SCALE: NTS



FUEL OR MATERIAL STORAGE AREA

- AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
- MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
- SILT FENCING SHALL BE PLACED 5' DOWNSLOPE OF EACH PILE. UPON COMPLETION OF SOIL STOCKPILING, TOPSOIL SHALL BE STABILIZED WITH SEED AND MULCH IF NOT TO BE DISTURBED/UTILIZED WITHIN 14 DAYS.
- SEE ADDITIONAL DETAILS FOR INSTALLATION OF SILT FENCE.
- TEMPORARY PERIMETER DIKES MAY BE REQUIRED TO DIRECT CLEAN RUNOFF FROM STOCKPILE AREAS. REFER TO EROSION AND SEDIMENT CONTROL PLAN.

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

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 2272 NYS ROUTE 9, TOWN OF MALTA, SARATOGA COUNTY, NEW YORK

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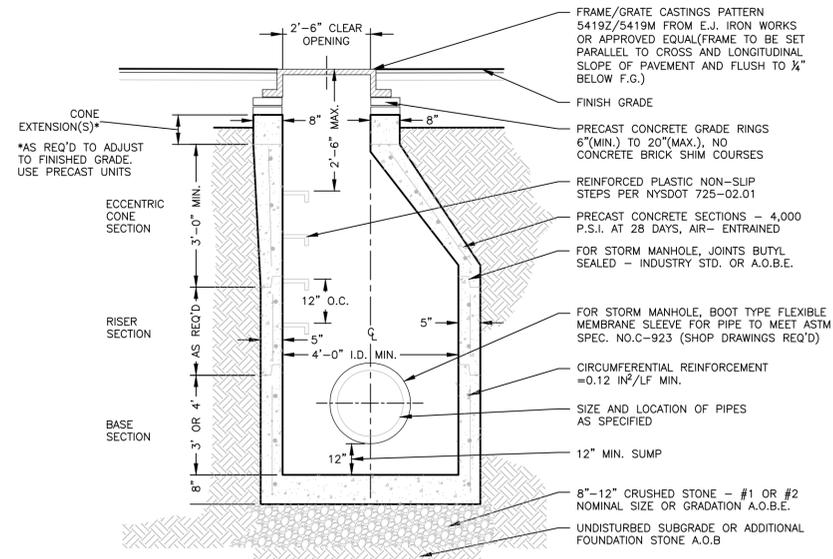
DATE	REVISIONS RECORD/DESCRIPTION
12/7/24	REVISIONS PER TOWN PLANNING & TDE COMMENTS
2/19/25	REVISIONS PER TOWN PLANNING & TDE COMMENTS
4/23/25	REVISIONS PER TOWN WATER COMMENTS

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EROSION & SEDIMENT CONTROL DETAILS

PROJ. NO: 470.02
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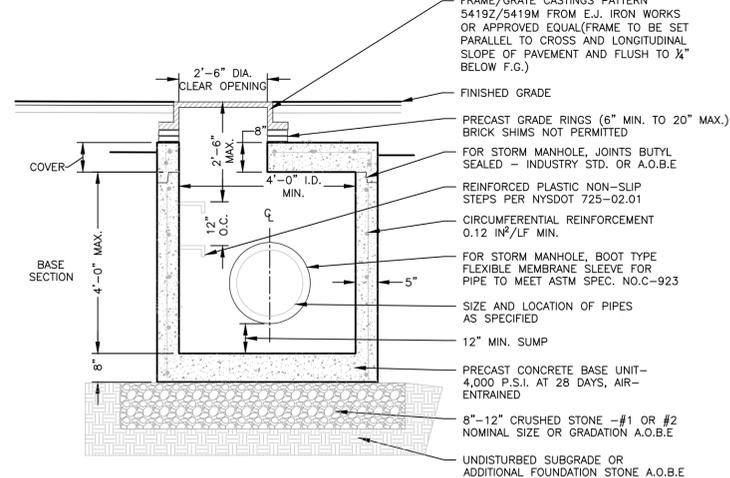


- NOTE:**
- SHOP DRAWINGS REQUIRED TO BE REVIEWED BY THE ENGINEER.
 - ALL MANHOLES TO BE PLACED IN ANY TRAFFIC AREAS SHALL MEET AASHTO HS20-44 WHEEL LOADING REQUIREMENTS.
 - FOUNDATION DRAIN LATERALS:** TO BE 4" PVC SDR 35 AT A MIN. SLOPE OF 1.00%. THE CROWN OF THE FOUNDATION DRAINS SHALL MATCH THE CROWN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

PRECAST CONCRETE MANHOLE - 5' DEEP AND OVER

SCALE: NTS

1

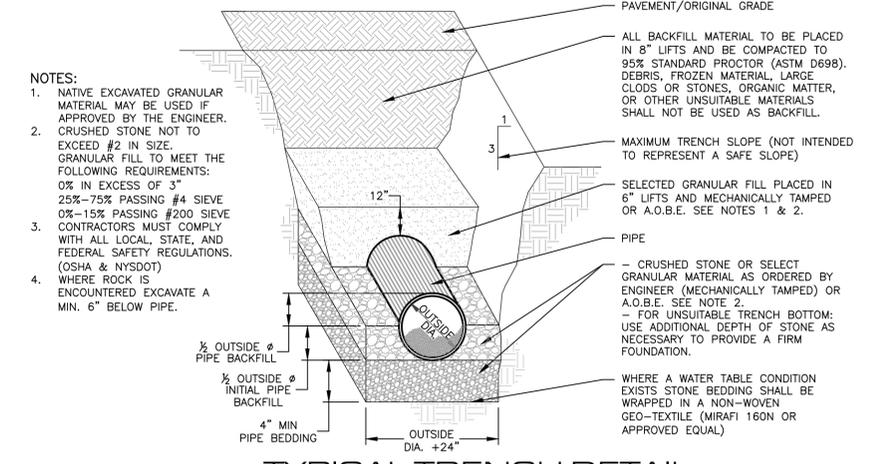


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 - ROADWAY UNDERDRAINS:** TO BE 4" HDPE AT SLOPE EQUAL TO ROADWAY GRADE. THE INVERT OF THE UNDERDRAIN SHALL BE LOCATED 2' BELOW THE RIM ELEVATION OF THE CATCH BASIN.

PRECAST CONCRETE MANHOLE - UNDER 5' DEEP

SCALE: NTS

2

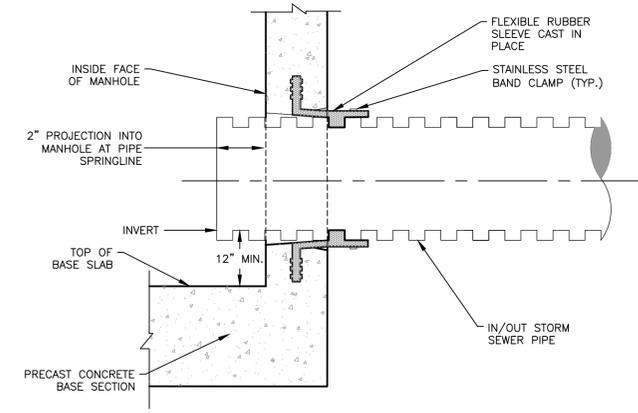


- NOTES:**
- NATIVE EXCAVATED GRANULAR MATERIAL MAY BE USED IF APPROVED BY THE ENGINEER. CRUSHED STONE NOT TO EXCEED #2 IN SIZE. GRANULAR FILL TO MEET THE FOLLOWING REQUIREMENTS: 0% IN EXCESS OF 3" 25%-75% PASSING #4 SIEVE 0%-15% PASSING #20 SIEVE CONTRACTORS MUST COMPLY WITH ALL LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS. (OSHA & NYS DOT)
 - WHERE ROCK IS ENCOUNTERED EXCAVATE A MIN. 6" BELOW PIPE.

TYPICAL TRENCH DETAIL FOR CORRUGATED HDPE PIPE

SCALE: NTS

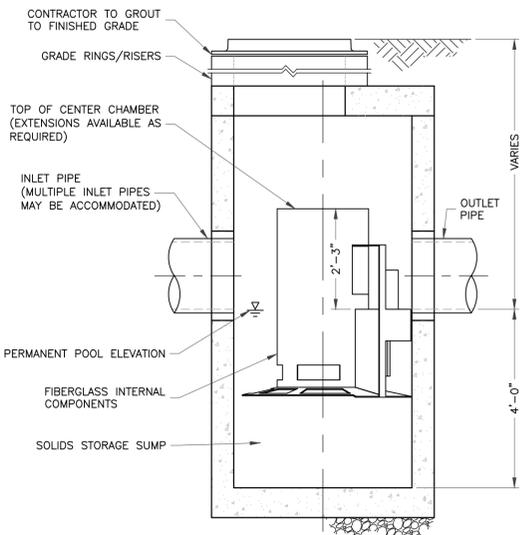
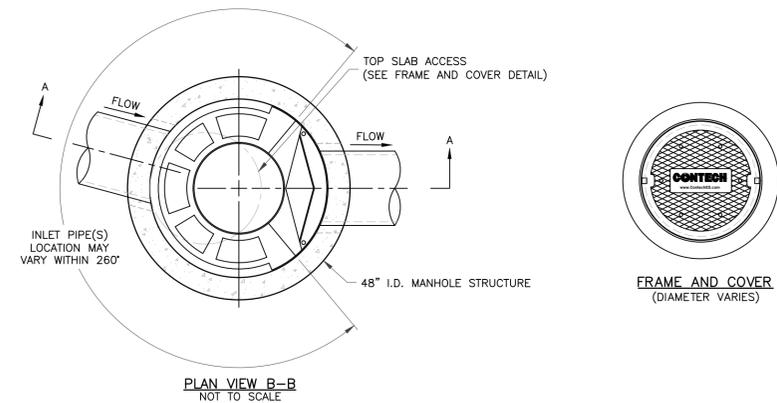
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HDPE PIPE TO STRUCTURE: BOOTED JOINT

SCALE: NTS

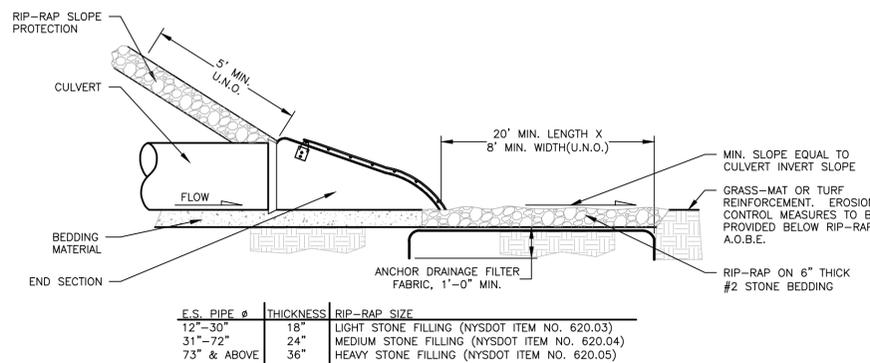
4



CS-4 CASCADE SEPARATOR

SCALE: NTS

6



E.S. PIPE Ø	THICKNESS	RIP-RAP SIZE
12"-30"	18"	LIGHT STONE FILLING (NYS DOT ITEM NO. 620.03)
31"-72"	24"	MEDIUM STONE FILLING (NYS DOT ITEM NO. 620.04)
73" & ABOVE	36"	HEAVY STONE FILLING (NYS DOT ITEM NO. 620.05)

TYPICAL CULVERT DETAIL

SCALE: NTS

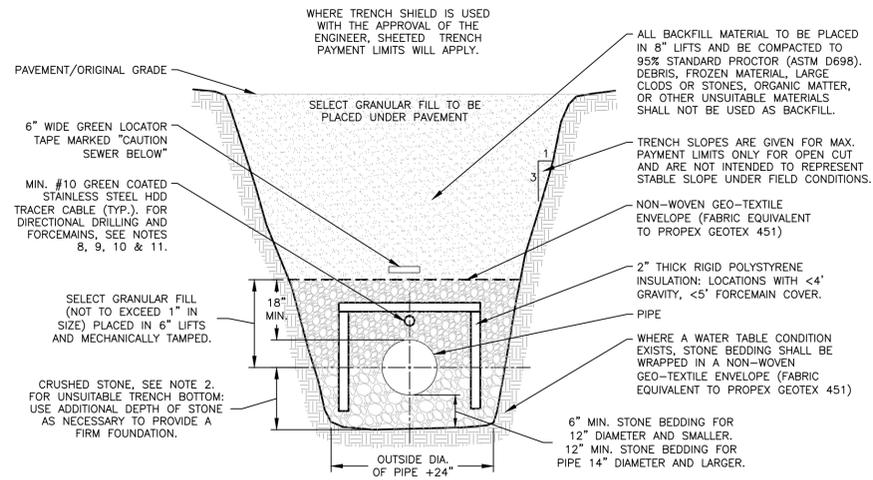
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 2272 NYS ROUTE 9, TOWN OF MALTA, SARATOGA COUNTY, NEW YORK

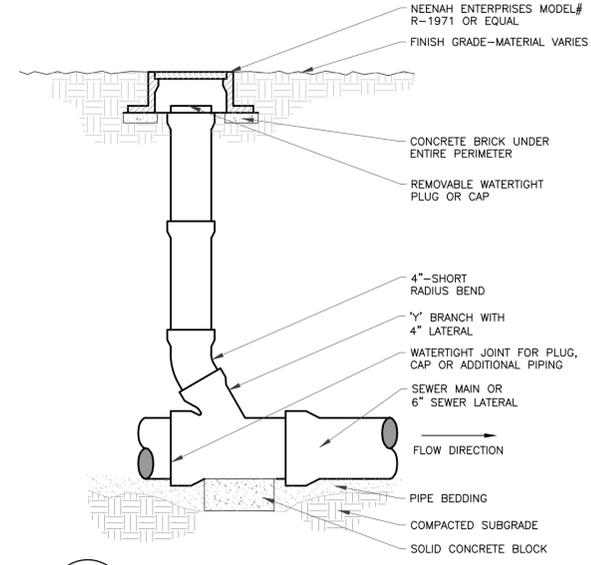
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 LAND SURVEYING

STORM SEWER DETAILS

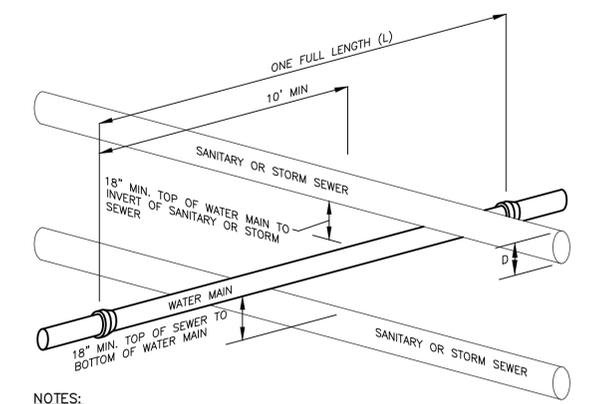


- WHERE TRENCH SHIELD IS USED WITH THE APPROVAL OF THE ENGINEER, SHEETED TRENCH PAYMENT LIMITS WILL APPLY.
- ALL BACKFILL MATERIAL TO BE PLACED IN 8" LIFTS AND BE COMPACTED TO 95% STANDARD PROCTOR (ASTM D698). DEBRIS, FROZEN MATERIAL, LARGE CLODS OR STONES, ORGANIC MATTER, OR OTHER UNSUITABLE MATERIALS SHALL NOT BE USED AS BACKFILL.
- TRENCH SLOPES ARE GIVEN FOR MAX. PAYMENT LIMITS ONLY FOR OPEN CUT AND ARE NOT INTENDED TO REPRESENT STABLE SLOPE UNDER FIELD CONDITIONS.
- NON-WOVEN GEO-TEXTILE ENVELOPE (FABRIC EQUIVALENT TO PROPEX GEOTEX 451)
- 2" THICK RIGID POLYSTYRENE INSULATION: LOCATIONS WITH <4' GRAVITY, <5' FORCEMAIN COVER.
- PIPE
- WHERE A WATER TABLE CONDITION EXISTS, STONE BEDDING SHALL BE WRAPPED IN A NON-WOVEN GEO-TEXTILE ENVELOPE (FABRIC EQUIVALENT TO PROPEX GEOTEX 451)
- 6" MIN. STONE BEDDING FOR 12" DIAMETER AND SMALLER. 12" MIN. STONE BEDDING FOR PIPE 14" DIAMETER AND LARGER.
- OUTSIDE DIA. OF PIPE +24"
- 18" MIN.
- 6" WIDE GREEN LOCATOR TAPE MARKED "CAUTION SEWER BELOW"
- MIN. #10 GREEN COATED STAINLESS STEEL HDD TRACER CABLE (TYP.), FOR DIRECTIONAL DRILLING AND FORCEMAINS, SEE NOTES 8, 9, 10 & 11.
- SELECT GRANULAR FILL TO BE PLACED UNDER PAVEMENT
- SELECT GRANULAR FILL (NOT TO EXCEED 1" IN SIZE) PLACED IN 6" LIFTS AND MECHANICALLY TAMPED.
- CRUSHED STONE, SEE NOTE 2, FOR UNSUITABLE TRENCH BOTTOM: USE ADDITIONAL DEPTH OF STONE AS NECESSARY TO PROVIDE A FIRM FOUNDATION.
- NOTES:**
1. NATIVE EXCAVATED GRANULAR MATERIAL MAY BE USED ABOVE REQUIRED STONE LEVEL FOR BACKFILL IF APPROVED BY THE ENGINEER.
 2. CRUSHED STONE #1 AND #2, NOT TO EXCEED ONE (1) INCH IN SIZE.
 3. A.O.B.E. = AS ORDERED BY ENGINEER.
 4. GRAVITY LINE SHALL BE SDR 21 OR 26, INCLUDING FITTINGS.
 5. FORCEMAIN LINE SHALL BE C-900, DR 9 OR 11 (200 PSI MIN.).
 6. THE GRAVITY SEWER LATERAL SHALL BE LAID AT A UNIFORM GRADE OF 1/4" / FT (±2%).
 7. WHERE A WATER TABLE CONDITION EXISTS, STONE BEDDING SHALL BE WRAPPED IN A NON-WOVEN GEO-TEXTILE ENVELOPE (FABRIC EQUIVALENT TO PROPEX GEOTEX 451).
 8. CONTRACTORS SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL SAFETY REGULATIONS.
 9. TRACER WIRE SHALL BE GREEN IN COLOR.
 10. TRACER WIRE SHALL BE A MIN. OF #10 GA. STRANDED STAINLESS STEEL.
 11. TRACER WIRE SHALL BE APPROVED FOR HORIZONTAL DIRECTIONAL DRILLING (HDD) APPLICATIONS.
 12. TRACER WIRE SHALL BE HIGH-DENSITY POLYETHYLENE (HDPE) INSULATED STRANDED STAINLESS STEEL OR APPROVED BY SCSD#1.

1 TYPICAL TRENCH DETAIL SCALE: NTS

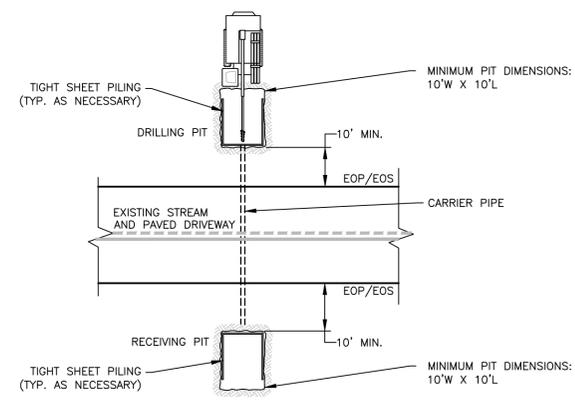


2 TYPICAL CLEAN OUT SCALE: NTS



- NOTES:**
- IF 18" VERTICAL SEPARATION CAN NOT BE ACHIEVED AT LOCATIONS OF WATER MAIN & SEWER CROSSINGS, CONTRACTOR SHALL CONSTRUCT EITHER OF THE FOLLOWING OPTIONS:
1. CONSTRUCT SANITARY SEWER OF PVC PRESSURE PIPE MATERIAL 10' ON EACH SIDE OF THE WATER MAIN/STORM SEWER AND TEST PROPOSED SANITARY SEWER AT 150 PSI.
 2. ENCASE SEWER PIPE IN CONCRETE, 4' DISTANCE ON EACH SIDE OF WATER MAIN/STORM SEWER CROSSING. CONCRETE ENCASEMENT SHALL BE MINIMUM 6" ALL AROUND PROPOSED SEWER PIPE.

3 TYP. SEPARATION REQUIREMENTS SCALE: NTS



4 DIRECTIONAL DRILLING FOR SEWER DETAIL SCALE: NTS

- NOTES:**
1. CONTRACTOR SHALL PROVIDE SUBMITTAL PACKAGE OF SANITARY SERVICE MATERIALS FOR REVIEW AND APPROVAL BY ENGINEER PRIOR TO SANITARY SEWER SERVICE INSTALLATION.

UNAPPROVED
 UNACCEPTED
 UNRELIABLE
 PRELIMINARY / NOT FOR CONSTRUCTION

2272 NYS ROUTE 9 SITE PLAN AMENDMENT
 2272 NYS ROUTE 9, TOWN OF MALTA, SARATOGA COUNTY, NEW YORK

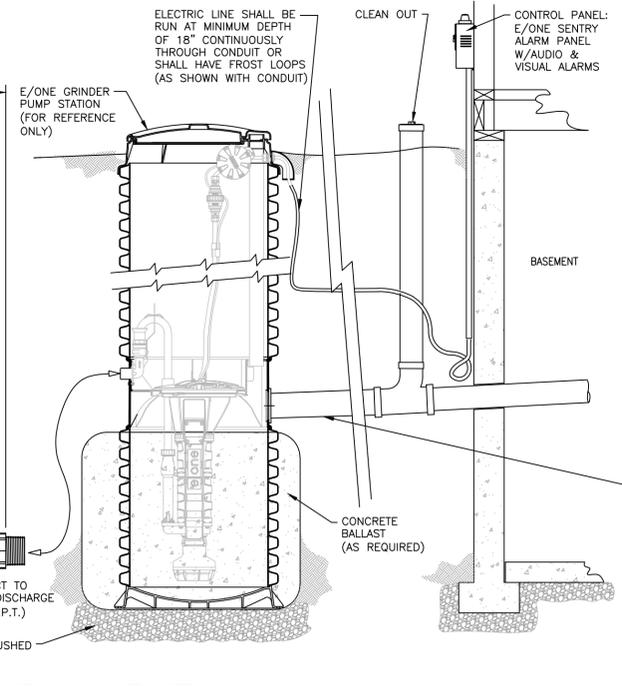
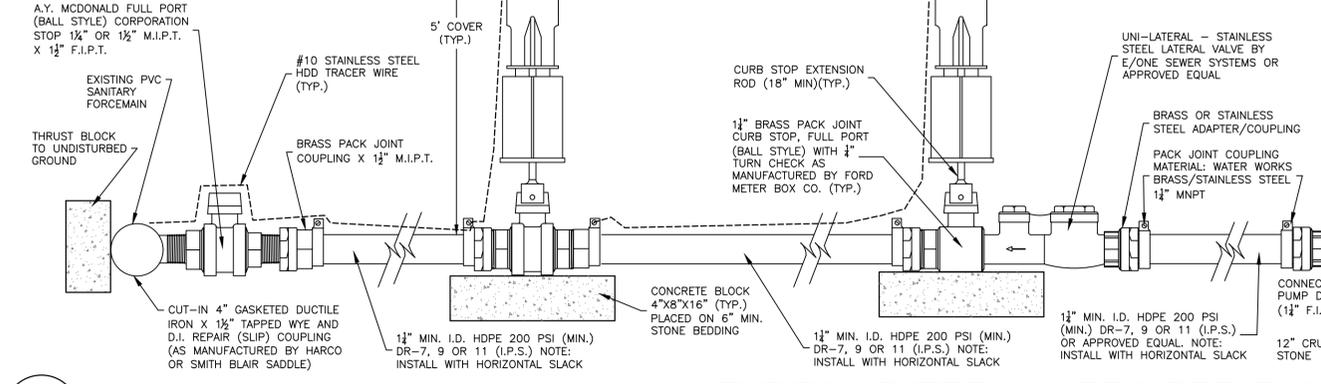


SANITARY SEWER DETAILS

PROJ. NO: 470.02
 SCALE: AS SHOWN
 DATE: 10/15/2024

DT-3
 SHEET 12 OF 20

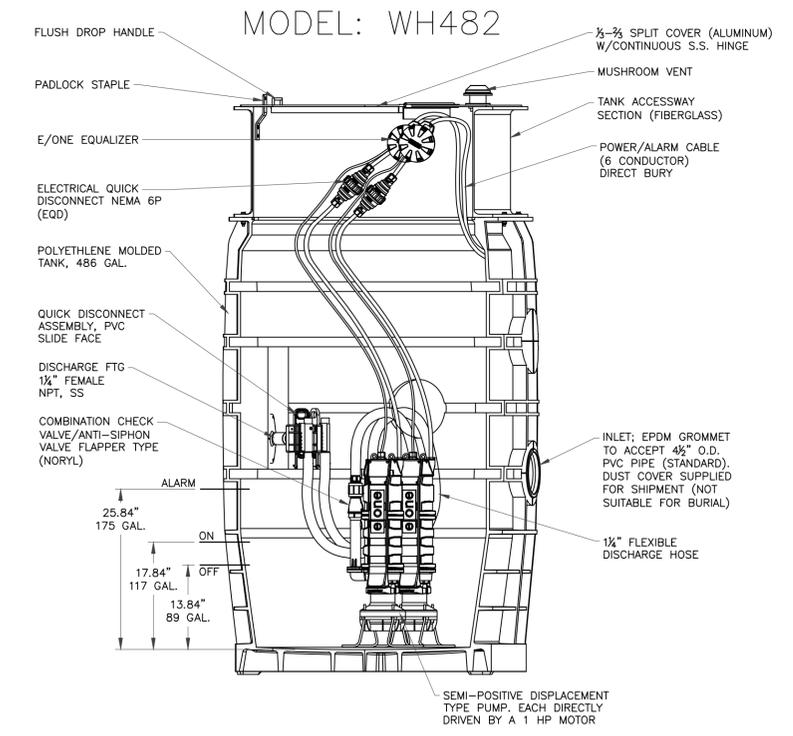
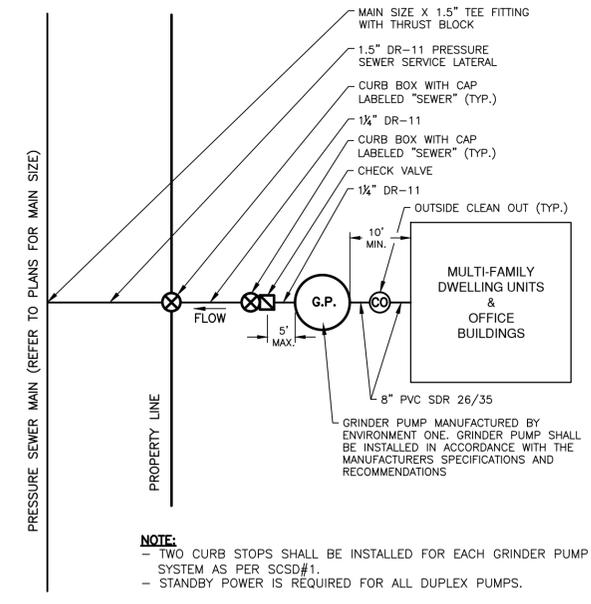
- NOTES:
- GRINDER PUMP MUST BE AT LEAST 10' FROM FOUNDATION.
 - ALL COMPRESSION FITTINGS WILL BE BRASS OR STAINLESS STEEL.
 - ALL CURB STOP EXTENSION RODS SHALL BE STAINLESS STEEL.
 - HDPE/POLY PIPE REQUIRES THE USE OF STAINLESS STEEL INSERT PIPE STIFFENERS FOR ALL PACK JOINT/COMPRESSION CONNECTIONS.
 - STAINLESS STEEL, BRASS OR FUSED DRESSER COUPLINGS TO BE USED WHERE EXISTING LINE IS CUT FOR TEE.
 - ALL FORCEMAIN SANITARY SEWER LINES SHALL BE AT A DEPTH OF 5' OR GREATER. IF LESS THAN 5', LINE SHALL BE INSULATED. (SEE SCSD#1 TRENCH DETAIL)
 - WHEN CONNECTING TO EXISTING FORCEMAIN, CURB STOP MUST BE PLACED AS CLOSE AS POSSIBLE TO EXISTING FORCEMAIN AND OUTSIDE OF PAVEMENT WITH VALVE BOX.
 - TIE-IN SADDLE TO BE STAINLESS STEEL BANDED TAPPING SLEEVE, BANDED REPAIR SERVICE SADDLE, FULL CIRCLE REPAIR CLAMP FOR TAPPING BY SMITH BLAIR, PIPE FUSING OR APPROVED EQUAL.
 - CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING FLOW.



- NOTES:
- THE PROPERTY OWNER WILL OWN AND MAINTAIN THE GRINDER PUMP SYSTEM TO POINT OF CONNECTION INTO SEWER MAIN.
 - CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING FLOW AND FINAL GRINDER PUMP START UP.
 - ALL FITTINGS ON PRESSURE SIDE OF GRINDER PUMP SHALL BE BRASS OR STAINLESS STEEL.
 - ALL FORCEMAIN SANITARY SEWER LINES SHALL BE AT A DEPTH OF 5' OR GREATER. IF DEPTH IS LESS THAN 5', LINE SHALL BE INSULATED. (SEE SARATOGA COUNTY SEWER DISTRICT #1 TRENCH DETAIL)
 - ALL GRAVITY SANITARY SEWER LINES SHALL BE AT A DEPTH OF 4' OR GREATER. IF DEPTH IS LESS THAN 4', LINE SHALL BE INSULATED. (SEE SARATOGA COUNTY SEWER DISTRICT #1 TRENCH DETAIL)
 - THE GRAVITY SEWER LATERAL SHALL BE LAID AT A UNIFORM GRADE OF 1/2" / FT. (ABOUT 2%)
 - CURRENT NATIONAL ELECTRIC CODE SHALL BE FOLLOWED
 - FINISHED GRADE SHALL DRAIN AWAY FROM GRINDER PUMP.
 - TANK SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
 - CONTROL PANEL:
 - SHALL HAVE VISUAL AND AUDIBLE ALARMS WITH ONLY BOTTOM PENETRATIONS AND NEMA 4X RATED FITTINGS
 - SHALL BE A MIN. OF 36" ABOVE FINAL GRADE
 - SHALL BE LOCATED IN SIGHT FROM THE GRINDER PUMP
 - IF NOT PLACE ON BUILDING, THE POST SHALL BE 6"x6" PRESSURE TREATED WOOD OR APPROVED EQUAL
 - SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS

TYPICAL EXTERNAL GRINDER PUMP LAYOUT

1



GRINDER PUMP & CONNECTION DETAILS

SCALE: N.T.S.

2

PRELIMINARY / NOT FOR CONSTRUCTION

2272 NYS ROUTE 9 SITE PLAN AMENDMENT
 2272 NYS ROUTE 9, TOWN OF MALTA, SARATOGA COUNTY, NEW YORK

E LANSING
 ENGINEERING
 CIVIL/ENVIRONMENTAL/MECHANICAL/PLUMBING
 LAND SURVEYING

GRINDER PUMP DETAILS

PROJ. NO: 470.02
 SCALE: AS SHOWN
 DATE: 10/15/2024

DT-4
 SHEET 13 OF 20

- PART 1 GENERAL**
- 1.01 SECTION INCLUDES**
- A. WATER MAINS.
 - B. VALVES
 - C. HYDRANTS
 - D. SERVICES
 - E. RADIO-READ SERVICE METERS
 - F. ACCESSORIES
 - G. PIPE BEDDING AND BACKFILL
 - H. CONSTRUCTION METHODS
 - I. AS-BUILT DRAWINGS
- 1.02 SUBMITTALS**
- A. SUBMIT ELECTRONIC COPIES OF PRODUCT DATA TO THE TOWN OF MALTA WATER DEPARTMENT FOR APPROVAL PRIOR TO PLACING ORDERS. ONCE ALL SUBMITTALS HAVE BEEN APPROVED, CONTRACTOR SHALL COMPLETE A COMPLETE ELECTRONIC RECORD OF ALL APPROVED SUBMITTALS AND SUBMIT TO T.O. MALTA ALONG WITH ONE (1) COLOR HARD COPY IN A 3-RING BINDER.
 - B. SUBMIT ELECTRONIC COPIES OF DISINFECTION, BACTERIOLOGICAL, AND HYDROSTATIC TESTING REPORTS TO T.O. MALTA FOR APPROVAL.
- 1.03 PRODUCT DELIVERY, STORAGE AND HANDLING**
- A. DURING LOADING, TRANSPORTING AND UNLOADING, EXERCISE CARE TO PREVENT DAMAGE TO MATERIALS.
 - B. STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 1.04 LEAD FREE STANDARDS**
- A. ALL WATER SYSTEM COMPONENTS MUST BE COMPLIANT WITH THE REDUCTION OF LEAD IN DRINKING WATER ACT, PROMULGATED BY PUBLIC LAW 111-380, WHICH AMENDED SECTION 1417 OF THE SAFE DRINKING WATER ACT.
 - B. ANY DISCREPANCIES BETWEEN THE REDUCTION OF LEAD IN DRINKING WATER ACT AND SPECIFIED PRODUCTS SHALL BE DECIDED IN FAVOR OF THE REDUCTION OF LEAD IN DRINKING WATER ACT.

- PART 2 PRODUCTS**
- 2.01 MATERIALS**
- A. WATER MAINS:**
1. HDPE, SDR-11, DIPS, AWWA C-906, BLUE STRIPE, WITH HEAT-FUSED BUTT JOINTS.
 2. PVC, AWWA C-900, DR-18, WITH PUSH-ON JOINTS.
 3. DIP, CLASS 52, FOR HYDRANT LEADS ONLY, WITH POLYETHYLENE WRAP, FOR PVC SYSTEMS, THE ENTIRE LEAD SHALL BE DIP. FOR HDPE SYSTEMS, UTILIZE BUTT-FUSED HDPE HYDRANT LEADS FROM MAIN TO HYDRANT ISOLATION VALVE AND DIP FROM VALVE TO HYDRANT.
 4. FITTINGS FOR DIP, PVC, AND HDPE BUTT-FUSED: DUCTILE IRON, 350 PSI, MJ, AWWA C153, WITH POLYETHYLENE WRAP. ALL VALVES AND FITTINGS SHALL HAVE MECHANICAL THRUST RESTRAINT. NO HDPE ELECTRO-FUSION COUPLINGS/FITTINGS WILL BE ALLOWED.
 5. WHERE REQUIRED DUE TO UNAVOIDABLE PIPING CONFIGURATION, MECHANICAL PRESSURE COUPLINGS MAY BE UTILIZED WITH PRIOR APPROVAL. MECHANICAL PRESSURE COUPLINGS ON HDPE SHALL UTILIZE SPRING WASHERS OR OTHER METHOD TO ACCOUNT FOR PIPE EXPANSION AND CONTRACTION.
 6. BOLTS: ALL FITTING BOLTS SHALL BE 1/2" FLUOROCARBON-COATED, LOW CARBON WEATHERING STEEL T-HEAD BOLTS (AKA "BLUE BOLTS"), AWWA C111. ALTERNATIVELY, 1/2" STAINLESS STEEL T-HEAD BOLTS MAY BE USED.
 7. MECHANICAL RESTRAINT FOR PVC PIPE: 360-DEGREE GRIP-RING STYLE RESTRAINT, ROMAC GRIP RING PIPE RESTRAINER OR EQUAL.
 8. MECHANICAL RESTRAINT FOR HDPE PIPE: CONVENTIONAL RETAINER GLANDS, WEDGE ACTION RETAINER GLANDS OR ANCHOR PEE.
 9. TRANSITION FROM HDPE PIPE TO DIP FITTINGS: DISCOPEX HDPE MJ ADAPTER, OR SIMILAR.
 10. CLOSE-COUPLED MJ FITTING CONNECTIONS: EPOXY-COATED FOSTER ADAPTORS; ALTERNATIVELY, A DUCTILE IRON FLEX T-3 RESTRAINT TEE MAY BE UTILIZED.
- B. VALVES:**
1. RESILIENT WEDGE, AWWA C-509, OPEN LEFT, WITH 2" NUT OPERATOR AND MJ CONNECTIONS. MUELLER A-2360 OR KENNEDY KENSEAL II, STYLE 8571.
 2. VALVE BOXES: CAST IRON TELESCOPIC PATTERN AT LEAST 5-1/4" DIAMETER, WITH CAST IRON DROP-TYPE COVER WITH ARROW INDICATING DIRECTION OF VALVE OPENING AND WATER CAST ON COVER. UPPER AND LOWER VALVE BOX SECTIONS MUST OVERLAP BY AT LEAST 6".
 3. WHERE APPROVED FOR USE, TAPPING VALVES SHALL BE MUELLER T-2361 RESILIENT WEDGE GATE TAPPING VALVES, OR APPROVED EQUAL.
 4. WHERE APPROVED FOR USE, TAPPING SLEEVES SHALL BE ALL STAINLESS STEEL BY FORD METER BOX, OR APPROVED EQUAL.
- C. HYDRANTS:**
1. AWWA C-502, WITH 5-1/4" MAIN VALVE, 6" MJ FITTINGS, 5.5 FT. STANDARD BURY DEPTH, WITH BREAK FLANGE AND DRAIN, KENNEDY GUARDIAN FIG K-81D - NO SUBSTITUTIONS ACCEPTED.
 2. NOZZLE ARRANGEMENT: TWO 2-1/2" HOSE CONNECTIONS AND ONE 4-1/2" PUMPER CONNECTION. THREADS SHALL BE NST. PROVIDE 4" STORZ NOZZLE ON PUMPER CONNECTION.
 3. OPERATOR: 1-1/2" PENTAGON, OPEN LEFT.
 4. COLOR: RED
 5. HYDRANT MARKERS: SPRING-LOADED, GALVANIZED STEEL MARKER WITH REFLECTIVE RED AND WHITE BANDS, NEW CONCEPT TOOLS SKU# 41002.1.
 6. BRASS TAGS: FOR IDENTIFYING PLUGGED DRAINS AND HYDRANT BURY DEPTH. NOTE THAT PLUGGED DRAIN TAGS WILL BE FURNISHED BY T.O. MALTA FOR CONTRACTOR INSTALLATION, BUT CONTRACTOR SHALL FURNISH AND INSTALL THE BURY DEPTH TAGS.
- D. RESIDENTIAL SERVICES:**
1. HDPE TUBING: SHALL BE CTS P.E. 3408/3608 DR-9 RATED FOR 200 PSI. 1/2" MINIMUM FOR SERVICE LENGTHS UP TO 75 FEET. 1" MINIMUM FOR SERVICE LENGTHS UP TO 150 FEET. SIZE OF SERVICES OVER 150 FEET IN LENGTH SHALL BE DETERMINED IN CONJUNCTION WITH T.O. MALTA WATER DEPARTMENT'S ENGINEER. WATER DEMAND AND SERVICE PRESSURE SHALL BE CONSIDERED IN THE DETERMINATION OF ALL SERVICE SIZE.
 2. JOINTS AND FITTINGS:
 - a. SHALL BE BRONZE COMPRESSION CONNECTIONS.
 - b. SHALL INCLUDE STAINLESS STEEL INSERTS.
 3. SERVICE SADDLES FOR PVC MAINS:
 - a. SHELL MATERIAL: 304 STAINLESS STEEL
 - b. GASKET: NITRILE
 - c. DOUBLE 304 SS STUD CLOSURE.
 - d. PRESSURE RATING: 150 PSIG.
 - e. LENGTH OF SADDLE: 7-1/2".
 - f. NSF 61 CERTIFIED.
 - g. TAP SIZE: AS APPROPRIATE FOR SERVICE SIZE.
 - h. SERVICE SADDLE: SMITH BLAIR MODEL 372, TOTAL PIPING SOLUTIONS TRIPLE TAP 'T3', OR APPROVED EQUAL.
 4. SERVICE SADDLES FOR HDPE MAINS:
 - a. SMITH BLAIR MODEL 372 STAINLESS STEEL WRAP SADDLES WITH SPRING WASHERS; NO EXCEPTIONS.
 5. CURB BOXES: SHALL BE EXTENSION TYPE WITH A STATIONARY ROD AND ARCH PATTERN BASE SUITABLE FOR A 5 FOOT BURY AND HAVING A MINIMUM 1-INCH INSIDE DIAMETER UPPER SECTION. CURB BOXES SHALL BE MUELLER H-10314, WITH MATCHING #8038SS STATIONARY RODS (STAINLESS STEEL) AND #89982 ONE-PIECE LIDS.
 6. CURB BOX EXTENSIONS SHALL BE ERIC BRAND WITH 3 SET SCREWS. THREADED BLACK PIPE COUPLINGS ARE NOT ALLOWED.
 7. CURB BOXES LOCATED WITHIN A HARD SURFACE (ASPHALT, CONCRETE) SHALL BE PROTECTED BY A VALVE BOX UPPER AND CAP.
 8. CURB STOPS:
 - a. SHALL BE MUELLER H-15209 MARK II ORISAL (NO DRAIN) SIZED APPROPRIATELY AND SUITABLE FOR CTS HDPE TUBING. THE CURB STOPS SHALL BE SET ON A SOLID CONCRETE BLOCK; SERVICE PIPE SHALL NOT BE IN CONTACT WITH CONCRETE BLOCK.
 - b. CORPORATION STOPS:
 - a. SHALL BE MUELLER H-15008 SIZED APPROPRIATELY AND SUITABLE FOR CTS HDPE TUBING.

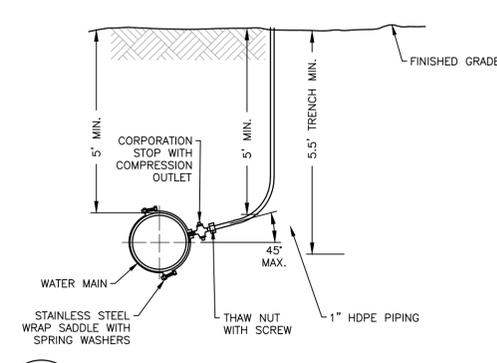
- E. COMMERCIAL SERVICES:**
1. SIZE AND TYPE OF COMMERCIAL SERVICE CONNECTION TO BE DETERMINED BASED ON WATER USAGE AND SERVICE PRESSURE.
- F. BACKFLOW PREVENTION:**
1. BACKFLOW PREVENTION REQUIREMENTS TO BE DETERMINED BASED ON POTENTIAL CROSS CONNECTION HAZARD. CONSULT WITH T.O. MALTA WATER DEPARTMENT DURING PREPARATION OF THE ENGINEER'S REPORT AND PROVIDE APPROPRIATE SCHEMATICS ON CONSTRUCTION DRAWINGS SHOWING RELATIONSHIP OF BACKFLOW DEVICES TO SERVICE METERING.
- G. RADIO-READ SERVICE METERS:**
1. METERS AND RADIO-READ UNITS SHALL BE PURCHASED FROM T.O. MALTA WATER DEPARTMENT FOR SYSTEM COMPATIBILITY. DEVELOPER-PURCHASED UNITS WILL NOT BE ALLOWED.
 2. RESIDENTIAL METER SIZE SHALL BE 5/8" X 3/4".
 3. COMMERCIAL METER SIZE SHALL BE AS APPROVED BY T.O. MALTA WATER DEPARTMENT.
- H. METER PITS:**
1. METER PIT SHALL BE COLD CLIMATE PIT SETTER WITH CAST IRON DOUBLE LID COVER AND LOCKING LID AS MANUFACTURED BY FORD METER BOX CO., INC., OR MCDONALD. THE BODY SHALL BE MADE OF 20.1 D. PVC PIPE WITH A NOMINAL DEPTH OF 60-INCHES. THE SETTER SHALL INCLUDE COPPER TUBE RISERS, ANGLE BALL VALVES ON INLET AND OUTLET, CHECK VALVE ON OUTLET, A CAST IRON (FRACK-RATED) DOUBLE LID COVER WITH LOCKING LID AND WRENCH. LID SHALL HAVE STANDARD 1.75 DIA AIR MOUNTING HOLE. PACK JOINT ASSEMBLIES FOR CONNECTION TO HDPE CTS SERVICE PIPING (2 REQUIRED PER INSTALLATION) SHALL ALSO BE INCLUDED.
 2. METER PIT MAY BE REQUIRED FOR SAMPLING STATION DEPENDING ON PROJECT LOCATION, WHERE REQUIRED, T.O. MALTA WATER DEPARTMENT WILL FURNISH SAMPLER FOR INSTALLATION BY CONTRACTOR.
- I. ACCESSORIES:**
1. THRUST BLOCKS: 3000 PSI CONCRETE - MIXED OR POURED CONCRETE ONLY; DRY BAGS THROWN IN THE HOLE WILL NOT BE ACCEPTABLE. ALL FITTINGS (BOTH MJ AND HDPE) SHALL HAVE THRUST BLOCKS.
 2. THRUST WALLS: 3000 PSI CONCRETE. ALL CONNECTIONS OF NEW HDPE PIPING SYSTEMS TO EXISTING PVC OR DIP PIPING SYSTEMS SHALL BE RESTRAINED AGAINST EXPANSION AND CONTRACTION STRESSES BY USING PROPERLY SIZED THRUST WALLS WITH HDPE ANCHOR FITTINGS.
 3. BURIED PIPELINE LOCATION TAPE: THE TAPE SHALL BE A METALLIC BLUE PLASTIC STRIP 6-INCHES WIDE WITH THE FOLLOWING WORDS IMPRINTED IN LARGE BLACK LETTERS IN CONTINUOUSLY REPEATING ELEMENTS ALONG THE TAPE: "CAUTION: WATER MAIN BELOW OR A VARIATION OF THOSE WORDS."
 4. TRACER WIRE AND ACCESSORIES: TRACER WIRE SHALL BE MULTI-STRAND 14-GAUGE STAINLESS STEEL WIRE WITH A 45 ML, COLOR-CODED (BLUE) POLYETHYLENE JACKET. SPLICE FITTINGS AND CONNECTIONS SHALL BE KING INNOVATION #96 LUG ALUMINUM TRACER WIRE CONNECTOR.
- J. PIPE BEDDING AND BACKFILLING:**
1. WATER MAIN BEDDING: MIN. 6" SAND BELOW AND ON SIDES OF PIPE.
 2. WATER MAIN PIPE ZONE BACKFILL: MIN. 12" SAND ABOVE PIPE.
 3. WATER SERVICE BEDDING AND PIPE ZONE BACKFILL: MINIMUM 6" SAND ALL AROUND PIPE.
 4. TRENCH ZONE BACKFILL: NATIVE EXCAVATED MATERIAL WITH ALL DELETERIOUS MATERIAL AND STONES LARGER THAN 8" REMOVED.

- PART 3 EXECUTION**
- 3.01 NOTIFICATION**
- A. A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED WITH T.O. MALTA AND CONDUCTED AT LEAST 7 DAYS PRIOR TO WATER MAIN CONSTRUCTION ACTIVITIES. REQUIRED ATTENDANCE SHALL INCLUDE T.O. MALTA STAFF, THE PIPELINE CONTRACTOR, AND ANY SPECIALTY SUBCONTRACTORS (E.G. DIRECTIONAL DRILLERS, TAPPING SPECIALISTS, ETC.).**
1. T.O. MALTA WATER DEPARTMENT WILL PROVIDE AN UPDATED PACKET WITH DETAILED INFORMATION OUTLINING PRESSURE TEST REQUIREMENTS, BACTERIOLOGICAL TESTING REQUIREMENTS AS WELL AS MATERIAL RESTRICTIONS, INCLUDING C900 AND HDPE USE LIMITATIONS (E.G. ALLOWABLE DEFLECTION, ETC.).
 2. ALL WATER SYSTEM SUBMITTALS MUST BE APPROVED PRIOR TO T.O. MALTA SCHEDULING THE PRE-CONSTRUCTION MEETING.
- B. T.O. MALTA WATER DEPARTMENT SHALL BE NOTIFIED 10 BUSINESS DAYS IN ADVANCE OF WHEN COMMERCIAL RADIO-READ SERVICE METERS WILL BE REQUIRED AND 2 BUSINESS DAYS IN ADVANCE FOR RESIDENTIAL METERS. METERS WILL BE AVAILABLE FOR PURCHASE AND PICK-UP AT THE T.O. MALTA WATER DEPARTMENT OFFICE AFTER RESPECTIVE NOTIFICATION PERIOD.**
- C. T.O. MALTA WATER DEPARTMENT SHALL BE NOTIFIED A MINIMUM OF 72 HOURS BEFORE WORK BEGINS ON NEW WATER MAIN CONSTRUCTION.**
- D. T.O. MALTA WATER DEPARTMENT SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE START OF PRESSURE TESTING, LEAKAGE TESTING AND DISINFECTION.**
- 3.02 FIELD QUALITY CONTROL**
- A. APPROVED PLANS:**
1. ALL WORK SHALL BE PERFORMED IN CONFORMANCE WITH THE DEVELOPER'S PLANS, AS APPROVED BY T.O. MALTA WATER DEPARTMENT. NO FIELD CHANGES SHALL TAKE

PLACE WITHOUT T.O. MALTA WATER DEPARTMENT APPROVAL.
 ANY FIELD CHANGES IMPACTING THE WATER INFRASTRUCTURE (INCLUDING REDUCED SEPARATION FROM OTHER UTILITIES) ARE SUBJECT TO RE-SUBMISSION TO DOH FOR PLAN APPROVAL. FURTHER, THE INSTALLED WORK MUST BE ACCEPTABLE TO T.O. MALTA WATER DEPARTMENT FOR ACCEPTANCE AND PROVISION OF WATER SERVICE.

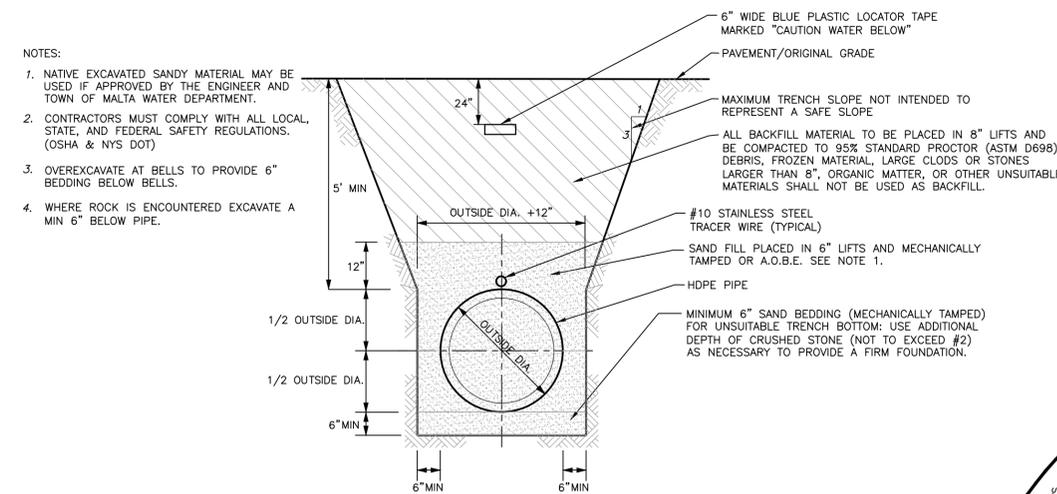
- B. INSTALLATION:**
1. INSTALL ALL WATER MAINS AND SERVICES SO THAT A MINIMUM COVER OF 5'-0" IS PROVIDED AFTER FINAL GRADE IS ACHIEVED.
 2. ALL FITTINGS (TEES, BENDS, HYDRANTS, CAPS AND PLUGS) SHALL HAVE THRUST BLOCKS AND MECHANICAL RESTRAINT.
 3. ALL VALVES SHALL HAVE MECHANICAL RESTRAINT.
 4. SERVICE TAPS SHALL BE SEPARATED BY A MINIMUM OF 36" (MEASURED ALONG THE PIPE CENTERLINE) AND SHALL BE LOCATED AT LEAST 36" FROM THE ENDS OF INDIVIDUAL PIPES.
 5. ALL OTHER UTILITIES (INCLUDING SANITARY, STORM, ELECTRIC, GAS, TELEPHONE, CABLE, COMMUNICATIONS, ETC.) MUST BE 10 FEET HORIZONTALLY AWAY FROM WATER LINES, EXCEPT AT CROSSINGS: WHERE REQUIRED, THEY SHALL BE AT 90 DEGREES AND SEPARATED BY 18" VERTICALLY.
 6. WHERE METER PITS ARE USED FOR SAMPLING STATIONS, THE RIMS OF THE ACCESS LIDS SHALL EXTEND TO 4" ABOVE FINAL GRADE.
- C. BURIED PIPELINE LOCATION TAPE AND TRACER WIRE:**
1. BURIED PIPELINE LOCATION TAPE SHALL BE PROVIDED AT A DEPTH OF 2'-0" BELOW FINISHED GRADE IN ALL OPEN TRENCH PIPE INSTALLATION.
 2. PROVIDE TRACER WIRE FOR ALL MAINS AND SERVICES 4" OR GREATER. ALL SERVICES LONGER THAN 75 FT. AND ALL SERVICES THAT CROSS CUL-DE-SACS. TRACER WIRE SHALL BE AFFIXED CONTINUOUSLY ALONG THE PIPELINE AND SHALL BE ACCESSIBLE FOR CONNECTION AT ALL VALVE BOXES (OR CURB BOXES), EXCEPT AS OTHERWISE APPROVED BY T.O. MALTA WATER DEPARTMENT. WIRE SHALL BE TERMINATED AT GRADE LEVEL WITHIN VALVE BOXES (OR CURB BOXES).
- D. FLUSHING:**
1. AT THE CONCLUSION OF THE INSTALLATION WORK BUT PRIOR TO PRESSURE TESTING AND DISINFECTION, THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL NEW PIPES BY FLUSHING WITH WATER OR OTHER MEANS TO REMOVE ALL DIRT, STONES, PIECES OF WOOD, ETC., WHICH MAY HAVE ENTERED DURING THE CONSTRUCTION PERIOD. IF, AFTER THIS CLEANING, ANY OBSTRUCTIONS STILL REMAIN, THEY SHALL BE REMOVED TO THE SATISFACTION OF T.O. MALTA WATER DEPARTMENT. PIPES SHALL BE FLUSHED AT A RATE OF 3.0 FEET PER SECOND FOR A DURATION SUITABLE TO T.O. MALTA WATER DEPARTMENT. T.O. MALTA WATER DEPARTMENT STAFF SHALL BE PRESENT FOR FLUSHING OPERATIONS.
 2. ALL SERVICES 1.5" AND LARGER SHALL BE FLUSHED TO THE SATISFACTION OF T.O. MALTA WATER DEPARTMENT PRIOR TO THE SERVICE METER INSTALLATION.
- E. HYDROSTATIC TESTING:**
1. FOR PVC MAINS AND DUCTILE IRON HYDRANT LEADS, PERFORM HYDROSTATIC LEAKAGE TESTING IN ACCORDANCE WITH AWWA C600, INSTALLATION OF DUCTILE IRON MAINS AND THEIR APPURTENANCES (LATEST REVISION), SECTION 4, HYDROSTATIC TESTING. PROVIDE REPORT OF TEST PROCEDURES INCLUDING BEGINNING AND ENDING PRESSURES, AND AMOUNT OF MAKE-UP WATER NEEDED.
 2. FOR HDPE MAINS, PERFORM HYDROSTATIC LEAKAGE TESTING IN ACCORDANCE WITH THE HANDBOOK OF PLASTIC PIPE, CHAPTER 2. PROVIDE REPORT OF TEST PROCEDURES INCLUDING BEGINNING AND ENDING PRESSURES, AND AMOUNT OF MAKE-UP WATER NEEDED.
 3. UNLESS OTHERWISE ALLOWED BY T.O. MALTA WATER DEPARTMENT, HDPE MAINS SHALL BE TESTED SEPARATELY FROM THE PVC MAINS, AND DESIGNS SHALL INCORPORATE REQUIRED VALVES TO ACCOMPLISH THIS.
 4. T.O. MALTA WATER DEPARTMENT STAFF SHALL BE PRESENT FOR HYDROSTATIC TESTING OPERATIONS.
- F. DISINFECTION:**
1. PROVIDE DISINFECTION OF WATER MAINS IN ACCORDANCE WITH ANSI/AWWA C651 STANDARDS FOR DISINFECTING WATER MAINS (LATEST REVISION), WITH THE EXCEPTION THAT THE TABLET METHOD IS NOT ALLOWED.
 2. PROVIDE DISINFECTION REPORT INDICATING THE FOLLOWING:
 - a. DATE ISSUED AND PROJECT NAME.
 - b. CONTRACTOR'S NAME, ADDRESS AND PHONE NUMBER.
 - c. TYPE AND FORM OF DISINFECTANT USED.
 - d. TEST LOCATIONS.
 - e. DATES AND TIMES OF DISINFECTANT INJECTION START AND COMPLETION.
 - f. INITIAL AND 24-HOUR DISINFECTANT RESIDUALS IN PPM FOR EACH OUTLET TESTED.
 - g. DATE AND TIME OF FLUSHING START AND COMPLETION.
 - h. DISINFECTANT RESIDUAL AFTER FLUSHING (IN PPM) FOR EACH OUTLET TESTED.
 3. PROVIDE BACTERIOLOGICAL REPORT INDICATING THE FOLLOWING:
 - a. DATE ISSUED, PROJECT NAME, AND TESTING LABORATORY NAME, ADDRESS, AND TELEPHONE NUMBER.
 - b. TIME AND DATE OF WATER SAMPLE COLLECTION.
 - c. NAME OF PERSON COLLECTING SAMPLES.
 - d. TEST LOCATIONS.
 - e. INITIAL AND 24-HOUR DISINFECTANT RESIDUALS IN PPM FOR EACH OUTLET TESTED.
 - f. COLIFORM BACTERIA TEST RESULTS FOR EACH OUTLET TESTED.
 - g. CERTIFICATION THAT WATER CONFORMS, OR FAILS TO CONFORM, TO BACTERIAL STANDARDS OF NEW YORK STATE.
 - h. BACTERIOLOGIST'S SIGNATURE AND AUTHORITY.
 4. T.O. MALTA WATER DEPARTMENT STAFF SHALL BE PRESENT FOR DISINFECTION OPERATIONS.
- G. HYDRANT DRAINS:**
1. WHERE GROUNDWATER LEVEL IS AT LEAST 7'-0" BELOW FINISHED GRADE, PROVIDE SUMP FOR HYDRANT DRAIN.
 2. WHERE GROUNDWATER LEVEL IS WITHIN 7'-0" OF FINISHED GRADE, THE HYDRANT DRAIN SHALL BE PLUGGED AND T.O. MALTA WATER DEPARTMENT SHALL BE NOTIFIED PRIOR TO BACKFILLING TO ALLOW FOR OBSERVATION. HYDRANTS WITH PLUGGED DRAIN PORTS SHALL BE IDENTIFIED SEPARATELY ON THE AS-BUILT DRAWINGS AND IN THE GPS COORDINATE LISTING.
 3. INSTALL T.O. MALTA WATER DEPARTMENT-FURNISHED BRASS TAGS ON ALL HYDRANTS THAT WILL HAVE PLUGGED DRAINS.
- H. HYDRANT EXTENSIONS AND DEPTH TAGS:**
1. PROVIDE HYDRANT EXTENSIONS IF STANDARD 5.5 FT. BURY DEPTH CANNOT BE ACHIEVED IN DESIGN OR DUE TO T.O. MALTA WATER DEPARTMENT-AUTHORIZED FIELD CHANGES. REPORT TOTAL DEPTH OF HYDRANT TO T.O. MALTA WATER DEPARTMENT (FOR DEPTH TAG PRODUCTION) AND RECORD ON AS-BUILTS.
 2. PROVIDE BRASS TAGS INDICATING DEPTH OF BURY ON ALL HYDRANTS.
 3. ALL HYDRANT EXTENSIONS SHALL BE INSPECTED BY T.O. MALTA WATER DEPARTMENT PRIOR TO BACKFILLING.
- I. HDPE WATER MAIN INSTALLATION BY DIRECTIONAL DRILLING:**
1. INSTALLATION OF HDPE WATER MAIN BY DIRECTIONAL DRILLING MUST BE APPROVED BY T.O. MALTA WATER DEPARTMENT DURING THE PROJECT DESIGN.
- 3.03 LARGE SERVICE METERS AND BACKFLOW PREVENTION**
- A. SERVICES 3" AND GREATER WILL REQUIRE SPECIAL ATTENTION TO ENSURE PROPER INSTALLATION OF SERVICE METERING AND BACKFLOW PREVENTION.**
- B. ALL SERVICE METERS SHALL BE INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S STRAIGHT PIPING REQUIREMENTS AND IN THE REQUIRED ORIENTATION (HORIZONTAL VS. VERTICAL). IN GENERAL, METERS WITH STRAINERS REQUIRE A MINIMUM OF 4 PIPE DIAMETERS OF STRAIGHT PIPE UPSTREAM OF THE METER AND 2 PIPE DIAMETERS DOWNSTREAM. IF NO STRAINER IS PROVIDED, THE UPSTREAM REQUIREMENTS INCREASE TO 8 PIPE DIAMETERS.**
- C. THE DESIGN DRAWINGS MUST INDICATE ADEQUATE ROOM FOR THE REQUIRED SERVICE METER AND BACKFLOW DEVICES. THE CONTRACTOR SHALL CONVEY A MEETING OF T.O. MALTA WATER DEPARTMENT AND THE MECHANICAL DESIGNERS PRIOR TO THE FINAL SERVICE CONNECTION TO THE BUILDING TO REVIEW THE DESIGN AND TO DETERMINE IF ANY PIPING ADJUSTMENTS ARE NECESSARY.**
- 3.04 AS-BUILTS, POST-CONSTRUCTION MEETING, AND SITE INSPECTION**
1. T.O. MALTA WATER DEPARTMENT SHALL BE SUPPLIED WITH A REPRODUCIBLE SET OF SCALED AS-BUILT DRAWINGS SHOWING THE ACTUAL LOCATION OF ALL MAINS, VALVES, HYDRANTS, CURB STOPS, AIR-RELEASE VALVES, AND OTHER WATER SYSTEM COMPONENTS. TWO PAPER PRINTS SHALL ALSO BE SUPPLIED. FEATURES SHALL BE LOCATED BY GPS METHODS AND A COORDINATE LISTING WITH LEGEND SHALL BE SUPPLIED. ACCEPTABLE FILE FORMATS FOR ELECTRONIC SUBMISSION INCLUDE AUTOCAD DWG FILE FORMAT, ARCVIEW SHAPE FILE FORMAT OR GPS CORRECTED FILE FORMAT.
 2. A POST-CONSTRUCTION MEETING SHALL BE SCHEDULED WITH T.O. MALTA WATER DEPARTMENT AND CONDUCTED AFTER CONSTRUCTION HAS BEEN COMPLETE BUT PRIOR TO THE TRANSFER OF THE FACILITIES TO T.O. MALTA. RELATED ACTIVITIES INCLUDE THE REVIEW OF AS-BUILT DRAWINGS AND A SITE WALK-THROUGH, THE TIMING OF WHICH SHALL BE COORDINATED WITH T.O. MALTA WATER DEPARTMENT. REQUIRED MEETING ATTENDANCE SHALL INCLUDE T.O. MALTA STAFF, THE PIPELINE CONTRACTOR, THE DEVELOPER, AND THE DEVELOPER'S ENGINEER.
 3. PERFORM INTEGRITY (POSITIVE SIGNAL) TEST ON THE INSTALLED TRACER WIRE. TEST SHALL BE COORDINATED WITH AND WITNESSED BY T.O. MALTA WATER DEPARTMENT.

- NOTES:**
1. ALL WATERMAIN AND WATER SERVICE MATERIALS SHALL CONFORM TO THE TOWN OF MALTA WATER DEPARTMENT STANDARDS AND APPLICABLE AWWA STANDARDS.
 2. WATERMANS AND APPURTENANCES SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA STANDARDS FOR DISINFECTING WATER MAINS, C-651-14, WITH THE EXCEPTION OF SECTION 5.1, TABLET METHOD. FINAL FLUSHING OF THE HEAVILY CHLORINATED WATER GENERATED FROM THE WATER MAIN DISINFECTION PROCESS SHALL BE NEUTRALIZED AND DISPOSED OF IN ACCORDANCE WITH AWWA STANDARDS FOR DISINFECTING WATER MAINS, C-651-14.
 3. WATERMANS SHALL BE PRESSURE AND LEAKAGE TESTED IN ACCORDANCE WITH SECTION 4 OF THE AWWA C-600 LATEST EDITION.
 4. DURING FINAL RESTORATION, CONTRACTOR SHALL VERIFY THAT ALL CURB BOXES/VALVE BOXES HAVE BEEN SET TO PROPER ELEVATIONS IN ACCORDANCE WITH THE PLANS.



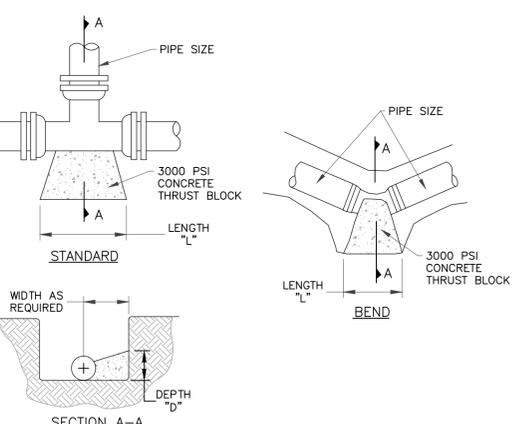
TEST TAP DETAIL
 SCALE: NTS

DECOMMISSIONING NOTES:
 1.) AFTER COMPLETION OF HYDROSTATIC TESTING AND DISINFECTION, CONTRACTOR TO EXPOSE AND SHUT OFF THE CORPORATION STOP, AND REMOVE THE TESTING WHIP.

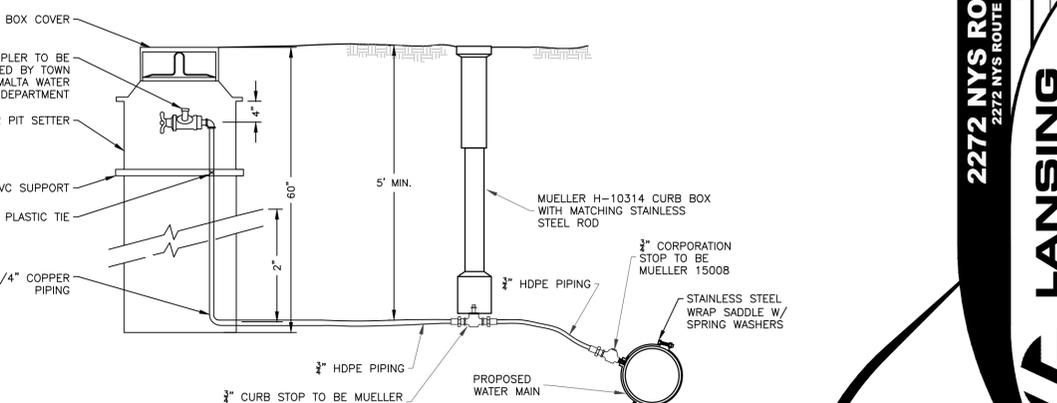


1 PVC & HDPE PIPE TRENCH & BEDDING
 SCALE: N.T.S.

PIPE SIZE (IN.)	REQUIRED BEARING AREAS & DIMENSIONS FOR CONCRETE THRUST BLOCKS	
	90° BEND	45° BEND
4"	1.4 x 1.0 x 1.5	2.0 x 1.0 x 2.0
6"	3.2 x 1.5 x 2.5	4.5 x 2.0 x 2.5
8"	5.7 x 2.0 x 3.0	8.0 x 2.0 x 4.0
12"	12.7 x 3.5 x 3.5	18.0 x 4.0 x 4.5

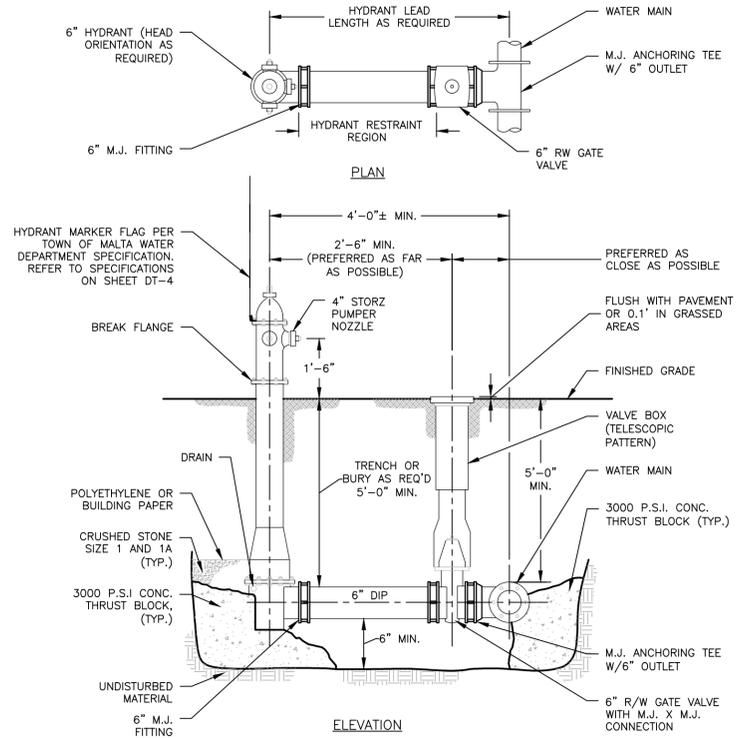


2 THRUST BLOCK DETAIL
 SCALE: NTS

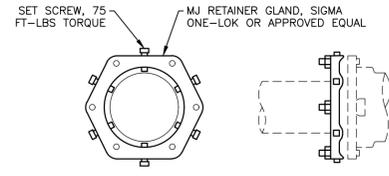


4 WATER SAMPLING STATION
 SCALE: NTS

2272 NYS ROUTE 9 SITE PLAN AMENDMENT
 2272 NYS ROUTE 9, TOWN OF MALTA, SARATOGA COUNTY, NEW YORK
 REVISIONS RECORD/DESCRIPTION
 DATE
 12/17/24 REVISIONS PER TOWN PLANNING & TDE COMMENTS
 2/18/25 REVISIONS PER TOWN PLANNING & TDE COMMENTS
 4/23/25 REVISIONS PER TOWN WATER COMMENTS
 2485STATE ROUTE 9 SUITE 301 -MALTA, NY 12062 (618) 888-9243
LANSING ENGINEERING
 CIVIL/ENVIRONMENTAL/ENGINEERING
 LAND SURVEYING
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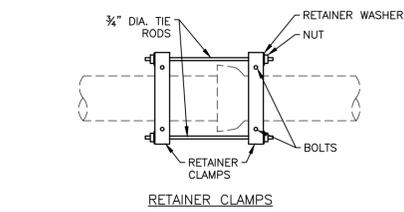
1 **TYPICAL HYDRANT
INSTALLATION DETAIL**
SCALE: N.T.S.



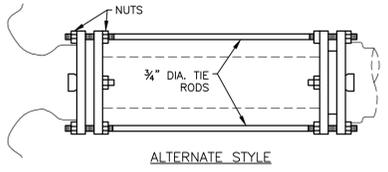
RETAINER GLAND
PREFERRED RESTRAINT METHOD

**NUMBER OF TIE
RODS REQUIRED**

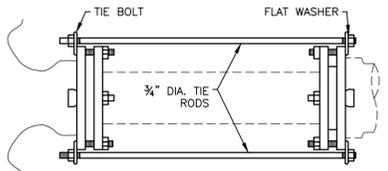
PIPE SIZE (INCHES)	MIN. # OF 3/4" RODS
2	2*
3	2*
4	2
6	2
8	2
10	2
12	2
16	4
20	6
24	8



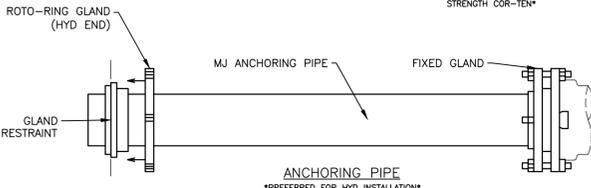
RETAINER CLAMPS



ALTERNATE STYLE

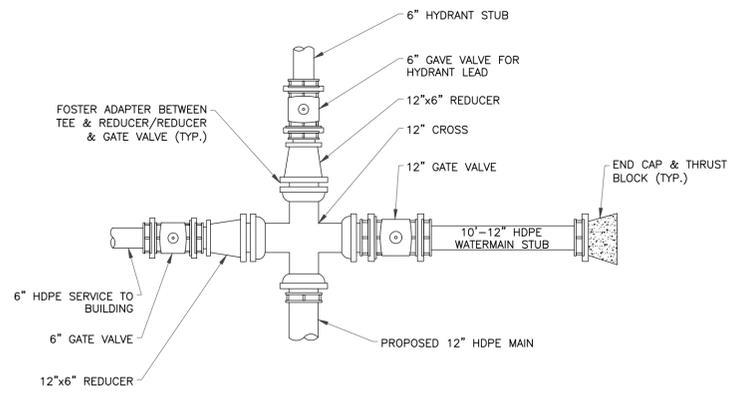


TIE RODS
*AS MANUFACTURED BY STAR SUPPLY
CORP OR APPROVED EQUAL, HIGH
STRENGTH COR-TEN*



ANCHORING PIPE
PREFERRED FOR HYD INSTALLATION

2 **THRUST RESTRAINT DETAILS**
SCALE: N.T.S.

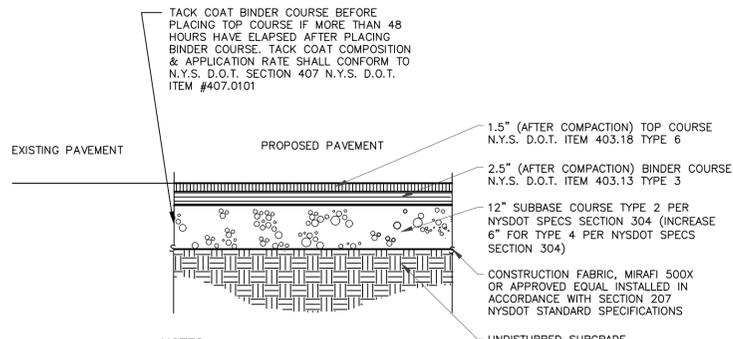


3 **HYDRANT, COMMERCIAL STUB,
WATERMAIN STUB DETAIL**
SCALE: N.T.S.

PRELIMINARY / NOT FOR CONSTRUCTION
 2272 NYS ROUTE 9 SITE PLAN AMENDMENT
 2272 NYS ROUTE 9, TOWN OF MALTA, SARATOGA COUNTY, NEW YORK
 REVISIONS PER TOWN PLANNING & TID COMMENTS
 REVISIONS PER TOWN PLANNING & TID COMMENTS
 REVISIONS PER TOWN WATER COMMENTS
 DATE: 12/7/24
 DATE: 2/19/25
 DATE: 4/23/25
 2455 STATE ROUTE 9 SUITE 301 - MALTA, NY 12020 - (518) 899-5243



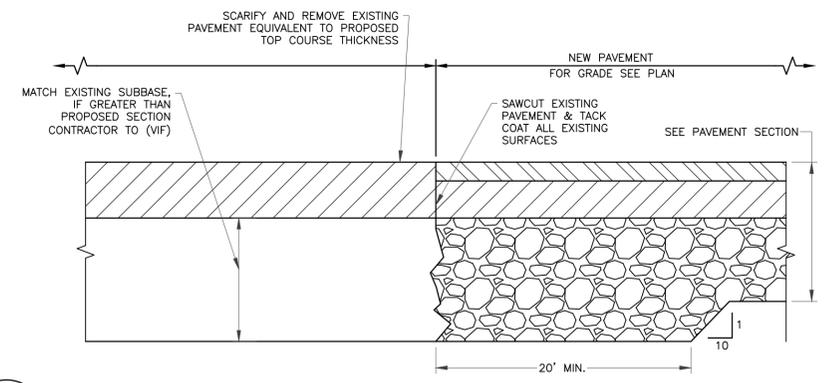
P:\PROJECTS\47002-Aschauer-2272 Route 9 Multi Family - Phase 2\CADD\CURRENT\13-DT4-WATER.dwg Apr 28, 2025 08:47AM



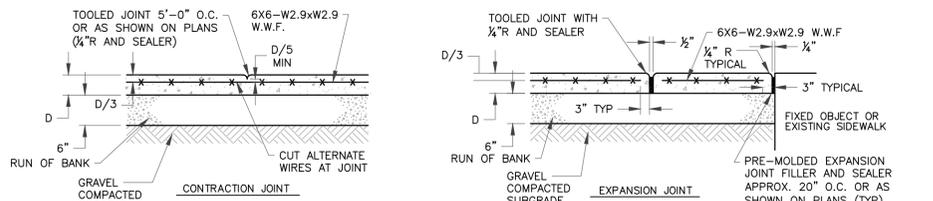
NOTES :

- THICKNESS OF ALL COURSES SHOWN ON THE DRAWINGS ARE COMPACTED THICKNESSES.
- ALL MATERIALS SHALL CONFORM TO NYS DOT, SECTION 400 AND SECTION 300.
- CONSTRUCT ASPHALT PAVEMENT IN ACCORDANCE WITH NYS DOT SECTION 401-3.
- NOTIFY THE TOWN OF MALTA 48 HOURS PRIOR TO COMMENCING PAVING.
- IF SUBGRADE IS UNSUITABLE FOR SUBBASE INSTALLATION AT THE TIME OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER INDICATING PROPOSED CORRECTIVE MEASURES (E.G., FILTER FABRIC, UNDERDRAINS, ADDITIONAL GRAVEL, ETC.).
- CURBS SHALL BE FORMED INTEGRALLY WITH BINDER COURSE AND TOP COURSE.
- BITUMINOUS TACK COAT SHALL BE APPLIED BETWEEN PAVEMENT COURSES IF MORE THAN 48 HOURS HAS ELAPSED BETWEEN PLACEMENT OF COURSES. TACK COAT WHEN USED SHALL BE APPLIED PER NYS DOT SECTION 407-2 AT APPLICATION RATE OF .05 - .1 GAL/SQ. YD.
- ALL TESTING FOR COMPACTION SHALL BE AS ORDERED BY THE ENGINEER. THE CONTRACTOR SHALL PAY FOR ALL TESTING.
- IF MORE THAN 30 DAYS WILL ELAPSE BETWEEN PAVING OF BINDER COURSE PAVEMENT AND TOP COURSE PAVEMENT, ALL SANITARY SEWER AND STORM SEWER FRAME SETS AND VALVE BOXES SHALL BE SET AT THE BINDER COURSE ELEV. AND SHALL BE RAISED AT THE TIME OF APPLICATION OF THE TOP COURSE PAVING.
- ALL FILL TO CONSTRUCT PARKING AREAS TO SUBGRADE ELEVATIONS SHALL BE COMPACTED TO 95% PROCTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST AND COORDINATION OF THE TESTING AND DOCUMENTATION OF THE FILL MATERIAL AND THE COMPACTION OF THE FILL MATERIAL.
- IN PARKING AREAS: FILL AREAS- BACKFILL WITH CLEAN SAND AND GRAVEL COMPACTED IN 12" LOOSE LIFTS UP TO 24" BELOW SUBBASE. THEN COMPACT IN 8" LOOSE LIFTS TO REQUIRED SUBBASE. SAND AND GRAVEL TO BE WELL GRADED WITH NO MATERIAL LARGER THAN 3" AND LESS THAN 10% FINER THAN THE #200 SIEVE, COMPACTION TO BE 95% STANDARD PROCTOR DENSITY, MEASURED AT EACH LIFT. PROVIDE SIEVE TEST OF FILL MATERIAL FOR APPROVAL PRIOR TO USE. PROVIDE COMPACTION RESULTS DEMONSTRATING CONFORMITY. SUITABLE NATIVE MATERIAL SHALL BE PERMITTED IN FILL AREAS AS AN ALTERNATE TO THE MATERIAL SPECIFIED ABOVE SUBJECT TO DESIGN AND TOWN ENGINEERS REVIEW AND APPROVAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE GEOTECHNICAL ANALYSES TO DETERMINE THE SUITABILITY OF THE NATIVE MATERIAL AS FILL TO THE SATISFACTION OF THE DESIGN AND TOWN ENGINEER.
- TACK COAT TO BE APPLIED AT THE INTERFACE BETWEEN ALL EXISTING AND PROPOSED PAVEMENT EDGES.

1 **ASPHALT PAVEMENT DETAIL**
SCALE: NTS

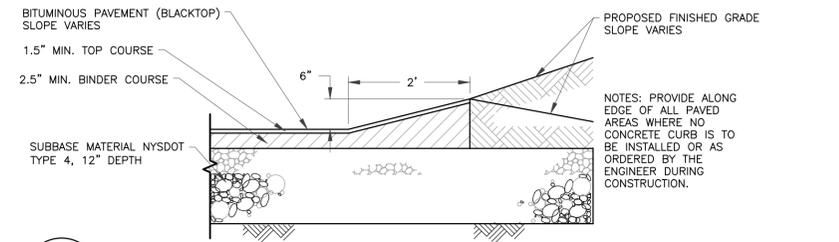


2 **STANDARD TRANSITION**
SCALE: NTS

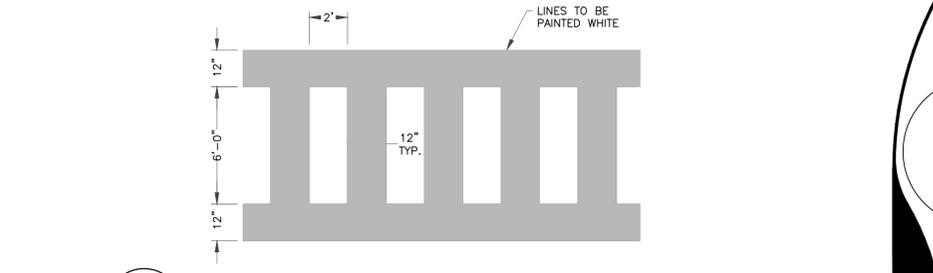


- NOTES:**
- ALL EXPOSED SURFACES TO HAVE BROOMED TEXTURE.
 - JOINTS SHALL NOT BE SAW CUT.
 - WHERE IT IS ANTICIPATED THAT A CONCRETE SURFACE WILL HAVE SALT OR CALCIUM CHLORIDE APPLIED, THAT SURFACE SHALL BE TREATED WITH AN APPROVED WATER PROOFING MATERIAL AND HAVE A CONCRETE 28 DAY STRENGTH OF 4000PSI.
 - THICKNESS OF SIDEWALK (D) TO BE 6" AT DRIVEWAY CROSSINGS AND 4" AT ALL OTHER LOCATIONS.

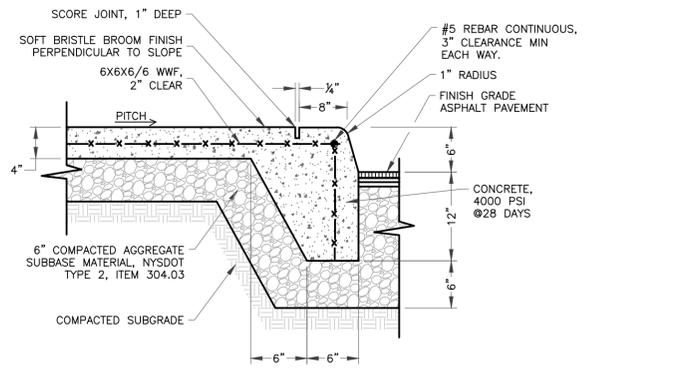
3 **CONCRETE SIDEWALK**
SCALE: NTS



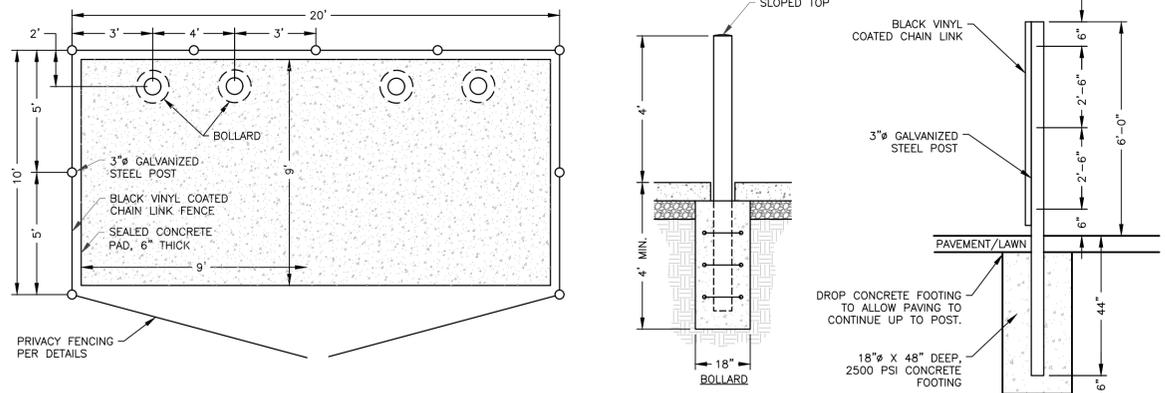
4 **ASPHALT WING-EDGE**
SCALE: NTS



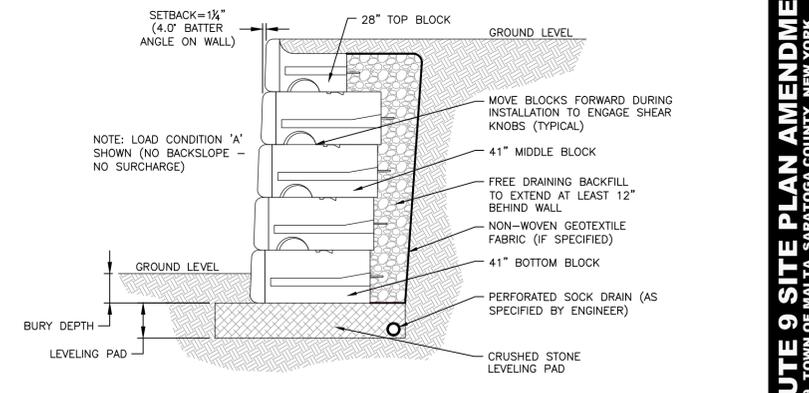
5 **CROSS WALK STRIPING**
SCALE: NTS



6 **CONCRETE WALK WITH INTEGRAL CURB**
SCALE: NTS



7 **DOUBLE DUMPSTER ENCLOSURE**
SCALE: NTS



8 **TYPICAL REDI-ROCK RETAINING WALL (OR APPROVED EQUAL)**
SCALE: NTS

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2272 NYS ROUTE 9 SITE PLAN AMENDMENT
 2272 NYS ROUTE 9, TOWN OF MALTA, SARATOGA COUNTY, NEW YORK
 REVISIONS PER TOWN PLANNING & TDE COMMENTS: 12/7/24
 REVISIONS PER TOWN PLANNING & TDE COMMENTS: 2/19/25
 REVISIONS PER TOWN WATER COMMENTS: 4/23/25
 DATE: 4/23/25
 2455 STATE ROUTE 9 SUITE 301 - MALTA, NY 12041 - (518) 888-5243

E LANSING ENGINEERING
 CIVIL/ENVIRONMENTAL/ENGINEERING
 LAND SURVEYING

MISCELLANEOUS SITE DETAILS
(1 OF 3)

PROJ. NO: 470.02
SCALE: AS SHOWN
DATE: 10/15/2024
DT-7
SHEET 16 OF 20

ACCESSIBLE ROUTE NOTES:

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

RAMP NOTES:

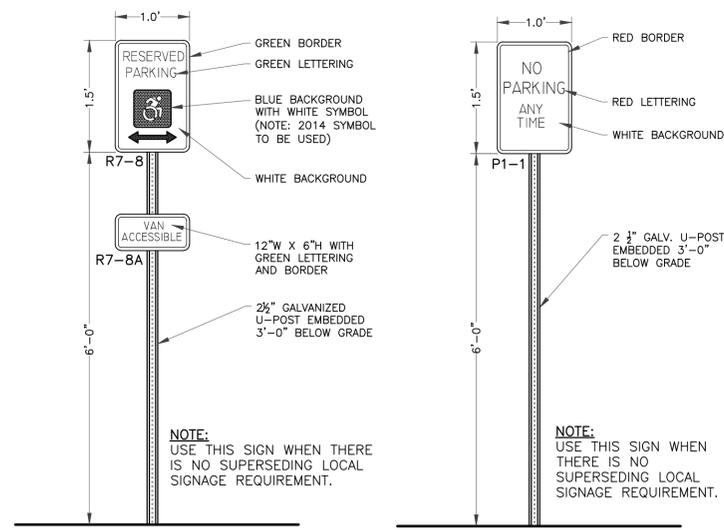
- ANY PART OF AN ACCESSIBLE ROUTE WITH A RUNNING SLOPE GREATER THAN 5% SHALL BE CONSIDERED A RAMP.
- THE MAXIMUM RUNNING SLOPE FOR A RAMP SHALL BE 8.33% AND THE MAXIMUM CROSS SLOPE SHALL BE 2.0% (7.5% MAXIMUM RUNNING SLOPE AND 1.5% MAXIMUM CROSS SLOPE WITHIN THE NYS DOT RIGHT-OF-WAY).
- THE CLEAR WIDTH OF AN EXTERIOR RAMP RUN SHALL BE FORTY-EIGHT (48) INCHES. WHERE HANDRAILS ARE PROVIDED ON THE RAMP RUN, THE CLEAR WIDTH SHALL BE MEASURED BETWEEN THE HANDRAILS.
- THE RISE FOR ANY RAMP RUN SHALL BE THIRTY (30) INCHES MAXIMUM.
- LANDINGS SHALL BE PROVIDED AT THE TOP AND BOTTOM OF RAMPS. LANDINGS SHALL HAVE A SLOPE NOT STEEPER THAN 2.0% IN ANY DIRECTION (1.5% IN NYS DOT RIGHT-OF-WAY). THE LANDING CLEAR WIDTH SHALL BE AT LEAST AS WIDE AS THE WIDEST RAMP RUN LEADING TO THE LANDING. THE LANDING CLEAR LENGTH SHALL BE SIXTY (60) INCHES LONG MINIMUM. RAMPS THAT CHANGE DIRECTION BETWEEN RUNS AT LANDINGS SHALL HAVE A CLEAR LANDING OF SIXTY (60) INCHES BY SIXTY (60) INCHES MINIMUM.
- RAMP RUNS WITH A RISE GREATER THAN SIX (6) INCHES OR A HORIZONTAL PROJECTION GREATER THAN SEVENTY-TWO (72) INCHES SHALL HAVE HANDRAILS ON BOTH SIDES COMPLYING WITH FAIR HOUSING ACCESSIBILITY GUIDELINES, THE BUILDING CODE OF NEW YORK STATE, AND APPLICABLE LOCAL LAWS & REGULATIONS.
- FLOOR SURFACES OF RAMPS AND LANDINGS SHALL BE STABLE, FIRM AND SLIP RESISTANT.
- EDGE PROTECTION COMPLYING WITH FAIR HOUSING ACCESSIBILITY GUIDELINES, THE BUILDING CODE OF NEW YORK STATE, AND APPLICABLE LOCAL LAWS & REGULATIONS, SHALL BE PROVIDED ON EACH SIDE OF RAMP LANDINGS.
- WHERE DOORWAYS ARE LOCATED ADJACENT TO A RAMP LANDING, MANEUVERING CLEARANCES REQUIRED BY, THE BUILDING CODE OF NEW YORK STATE SHALL BE PERMITTED TO OVERLAP THE REQUIRED LANDING AREA. WHERE DOORS THAT ARE SUBJECT TO LOCKING ARE ADJACENT TO A RAMP LANDING, LANDINGS SHALL BE SIZED TO PROVIDE A COMPLIANT TURNING SPACE.

CURB RAMP NOTES:

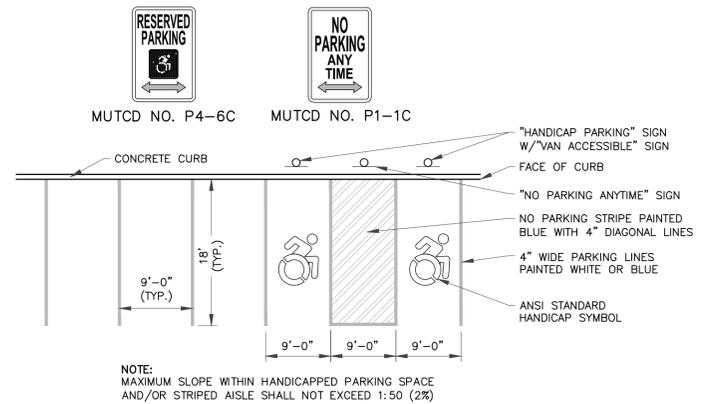
- THE MAXIMUM RUNNING SLOPE OF A CURB RAMP SHALL BE 8.33% AND THE MAXIMUM CROSS SLOPE SHALL BE 2.0% (7.5% MAXIMUM RUNNING SLOPE AND 1.5% MAXIMUM CROSS SLOPE WITHIN THE NYS DOT RIGHT-OF-WAY).
- COUNTER SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO THE CURB RAMP SHALL NOT BE STEEPER THAN 5.0%. THE ADJACENT SURFACES AT TRANSITIONS AT CURB RAMPS TO WALKS, GUTTERS AND STREETS SHALL BE AT THE SAME LEVEL.
- THE CLEAR WIDTH OF A CURB RAMP SHALL BE SIXTY (60) INCHES MINIMUM, EXCLUSIVE OF FLARED SIDES, IF PROVIDED.
- LANDINGS SHALL BE PROVIDED AT THE TOP OF CURB RAMPS. THE CLEAR LENGTH OF THE LANDING SHALL BE THIRTY-SIX (36) INCHES MINIMUM. THE CLEAR WIDTH OF THE LANDING SHALL BE AT LEAST AS WIDE AS THE CURB RAMP, EXCLUDING FLARED SIDES, LEADING TO THE LANDING. LANDINGS SHALL HAVE A SLOPE NOT STEEPER THAN 2.0% (1.5% IN THE NYS DOT RIGHT-OF-WAY) IN ANY DIRECTION.
- IF A CURB RAMP IS LOCATED WHERE PEDESTRIANS MUST WALK ACROSS THE RAMP, OR WHERE IT IS NOT PROTECTED BY HANDRAILS OR GUARDRAILS, IT SHALL HAVE FLARED SIDES.
- WHERE PROVIDED, CURB RAMP FLARES SHALL NOT EXCEED 10.0%.
- CURB RAMPS AND THE FLARED SIDES OF CURB RAMPS SHALL BE LOCATED SO THAT THEY DO NOT PROJECT INTO VEHICULAR TRAFFIC LANES, PARKING SPACES OR PARKING ACCESS AISLES. CURBS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARED SIDES.
- CURB RAMPS SHALL BE LOCATED OR PROTECTED TO PREVENT THEIR OBSTRUCTION BY PARKED VEHICLES.
- CURB RAMPS SHALL HAVE A TWENTY-FOUR (24) INCH DEEP DETECTABLE WARNING COMPLYING WITH 406.12 A117.1 -2003, EXTENDING THE FULL WIDTH OF THE RAMP. REFER TO DETECTABLE WARNING DETAILS AND NOTES FOR PLACEMENT, ORIENTATION AND NOTES. ANY DETECTABLE WARNING DEVICES IN THE NYS DOT RIGHT-OF-WAY SHALL BE FROM THE "NYS DOT APPROVED MATERIALS LIST."
- FLOOR SURFACES OF CURB RAMPS SHALL BE DEEP GROOVED, 1/2 INCH WIDE BY 1/4 INCH DEEP, ONE (1) INCH CENTERS TRANSVERSE TO THE RAMP.
- WHERE PROVIDED, STOP LINES SHALL BE LOCATED IN ADVANCE OF CURB RAMP.
- WHERE PROVIDED, PEDESTRIAN ACTIVATED SIGNALS SHALL BE LOCATED ADJACENT TO THE SIDEWALK AND NOT ON THE SIDEWALK.
- WHERE PROVIDED, DRAINAGE INLETS SHALL BE LOCATED UPSTREAM OF CURB RAMPS AND NOT IN THE RAMP AREA.
- CURB RAMP TYPE AND LOCATION ARE PER PLAN.

PARKING SPACE NOTES:

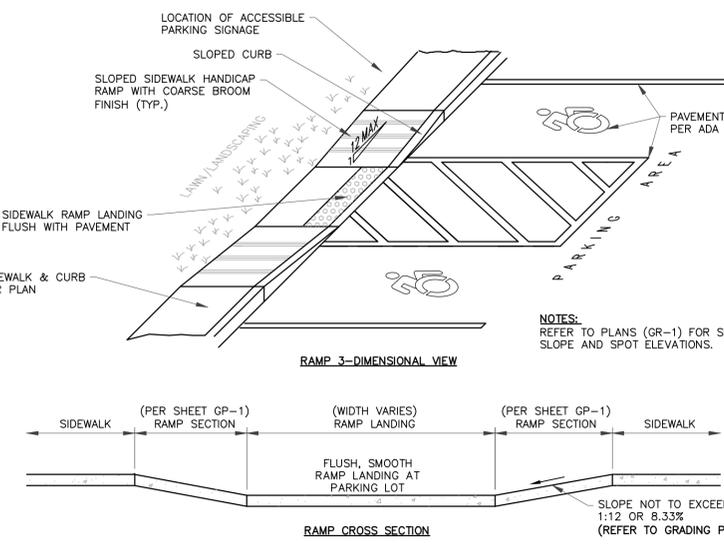
- ACCESSIBLE PARKING SPACES SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTES OF TRAVEL FROM ADJACENT PARKING TO AN ACCESSIBLE BUILDING ENTRANCE.
- ACCESSIBLE PARKING SPACES SHALL BE AT LEAST NINETY-SIX (96) INCHES WIDE. ACCESS AISLES SHALL BE NINETY-SIX (96) INCHES WIDE TO PROVIDE VAN ACCESSIBILITY.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



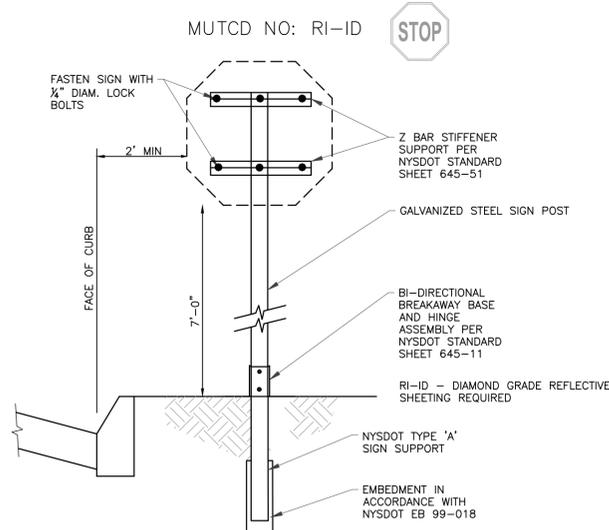
1 A.D.A ACCESSIBLE PARKING AND ACCESS AISLE SIGNAGE
SCALE: NTS



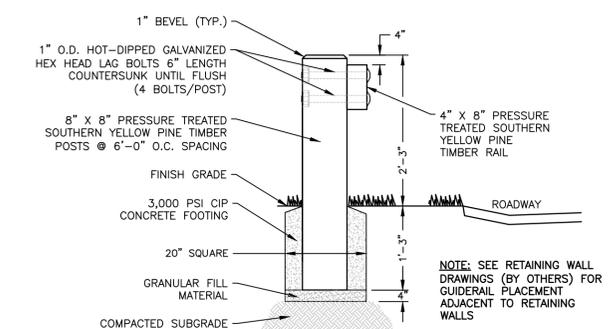
3 TYPICAL PARKING SPACE LAYOUT
SCALE: NTS



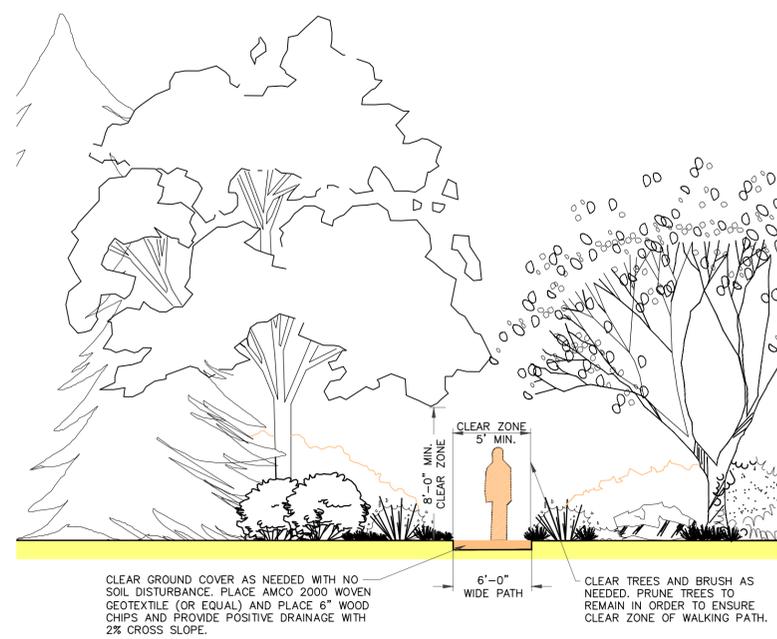
5 SIDEWALK RAMP
SCALE: NTS



2 STOP SIGN MOUNTING DETAIL (NYS DOT)
SCALE: NTS



4 TIMBER GUIDERAIL
SCALE: NTS



6 PROPOSED TRAIL DETAIL
SCALE: NTS

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2272 NYS ROUTE 9 SITE PLAN AMENDMENT
 2272 NYS ROUTE 9, TOWN OF MALTA, SARATOGA COUNTY, NEW YORK

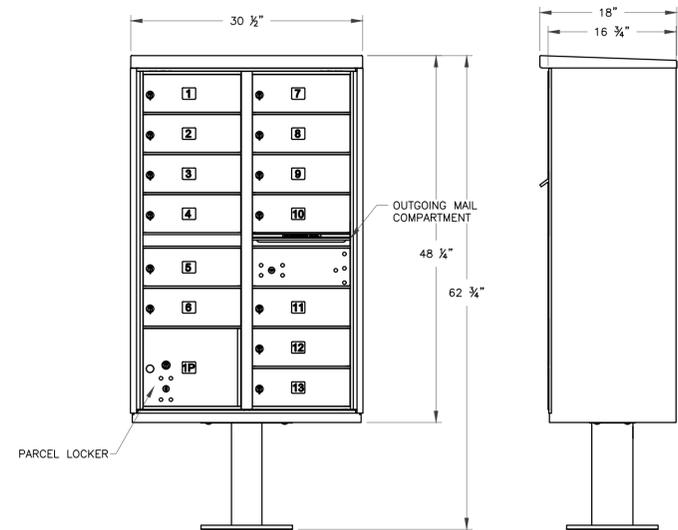
DATE	REVISIONS RECORD/DESCRIPTION
12/7/24	REVISIONS PER TOWN PLANNING & TDE COMMENTS
2/19/25	REVISIONS PER TOWN PLANNING & TDE COMMENTS
4/23/25	REVISIONS PER TOWN WATER COMMENTS

E LANSING ENGINEERING
 CIVIL/ENVIRONMENTAL/ENGINEERING
 LAND SURVEYING

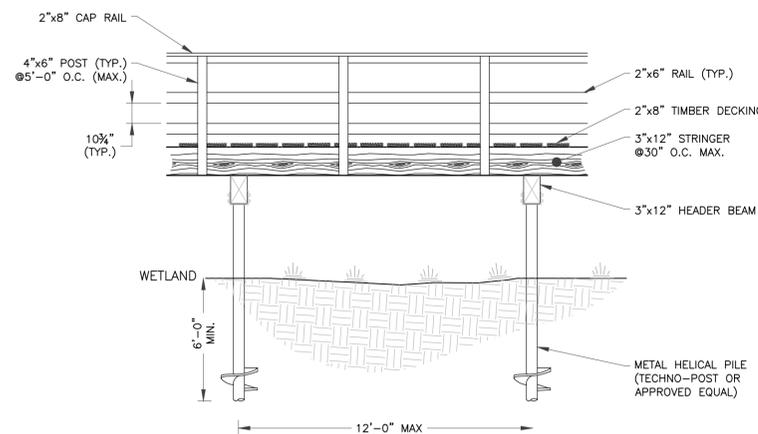
MISCELLANEOUS SITE DETAILS
(2 OF 3)

PROJ. NO: 470.02
 SCALE: AS SHOWN
 DATE: 10/15/2024

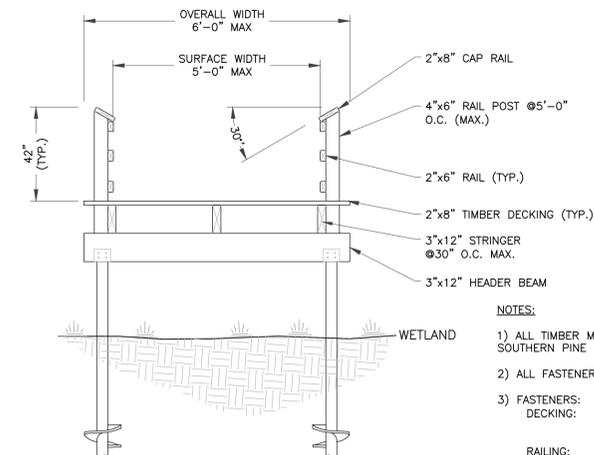
DT-8
 SHEET 17 OF 20



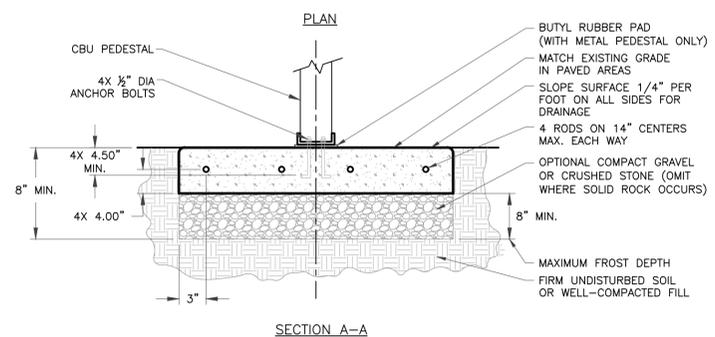
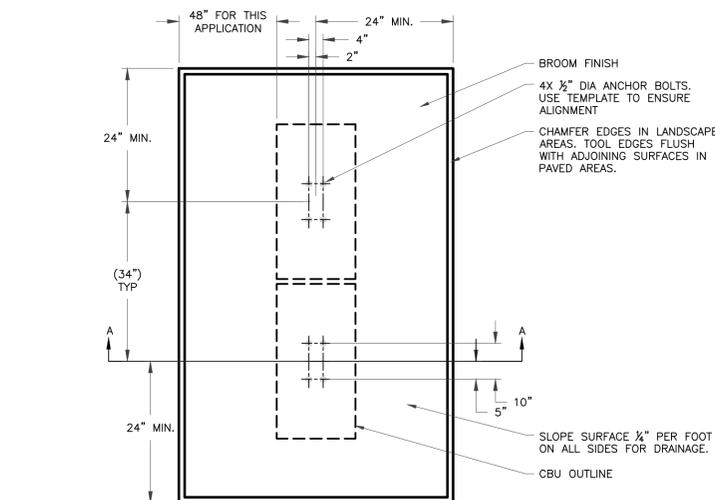
1 MULTIPLE CLUSTER MAILBOX UNIT (CBU) DETAIL
SCALE: NTS



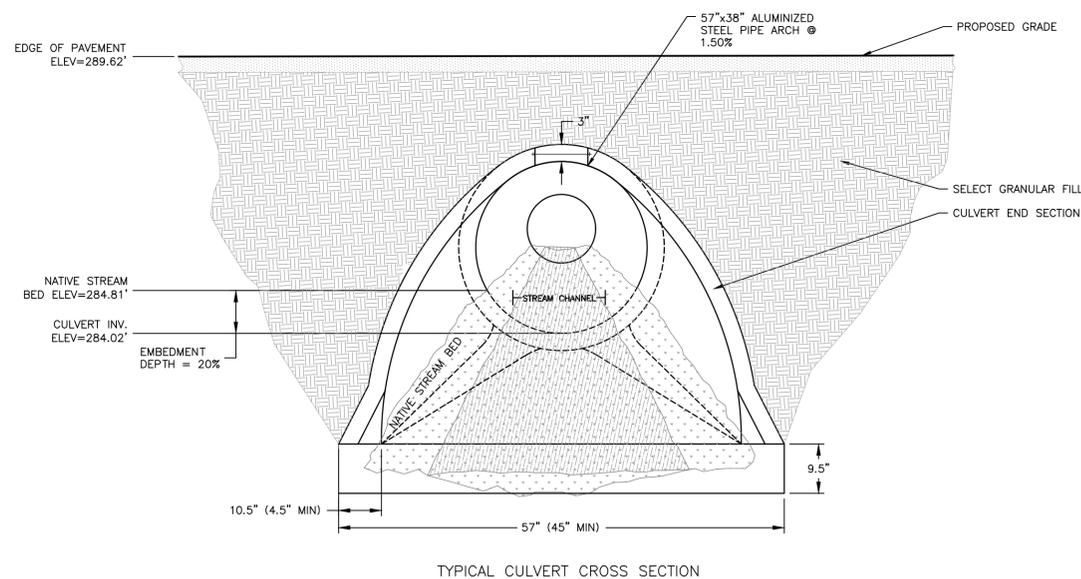
2 TYPICAL BOARDWALK DETAIL
SCALE: N.T.S.



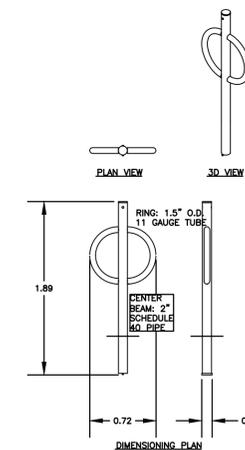
- NOTES:
- 1) ALL TIMBER MATERIAL SHALL BE DOUGLAS FIR OR SOUTHERN PINE NO. 2 OR BETTER.
 - 2) ALL FASTENERS SHALL BE GALVANIZED.
 - 3) FASTENERS:
DECKING: 60d 6" DECK SCREWS, 2 PER DECK STRINGER CONNECTION.
RAILING: NO. 10 X 4" LONG WOOD SCREWS, 2 PER RAIL POST CONNECTION
STRINGERS: 40d 5" LONG RING SHANK NAILS
 - 4) FINAL DESIGN OF BOARDWALK TO BE STAMPED AND SIGNED BY A LICENSED STRUCTURAL ENGINEER.



3 CLUSTER UNIT STANDARD BASE DETAIL
SCALE: NTS



4 TYPICAL CULVERT DETAIL
SCALE: NTS



- GENERAL NOTES:
1. BIKE HITCH TO BE SPECIFIED AS DERO BIKE HITCH OR OWNER APPROVED EQUIVALENT
 2. FINISH TO BE BLACK.
 3. MANUFACTURER TO BE:
DERO BIKE RACK CO.,
2657 32ND AVENUE S,
MINNEAPOLIS, MN 55406,
1-888-337-6729,
FAX: 612-331-2731
WEBSITE: WWW.DERO.COM
 4. IN-GROUND MOUNT INSTALLATION AND REQUIRED SETBACKS SHALL BE PER MANUFACTURER'S SPECIFICATIONS

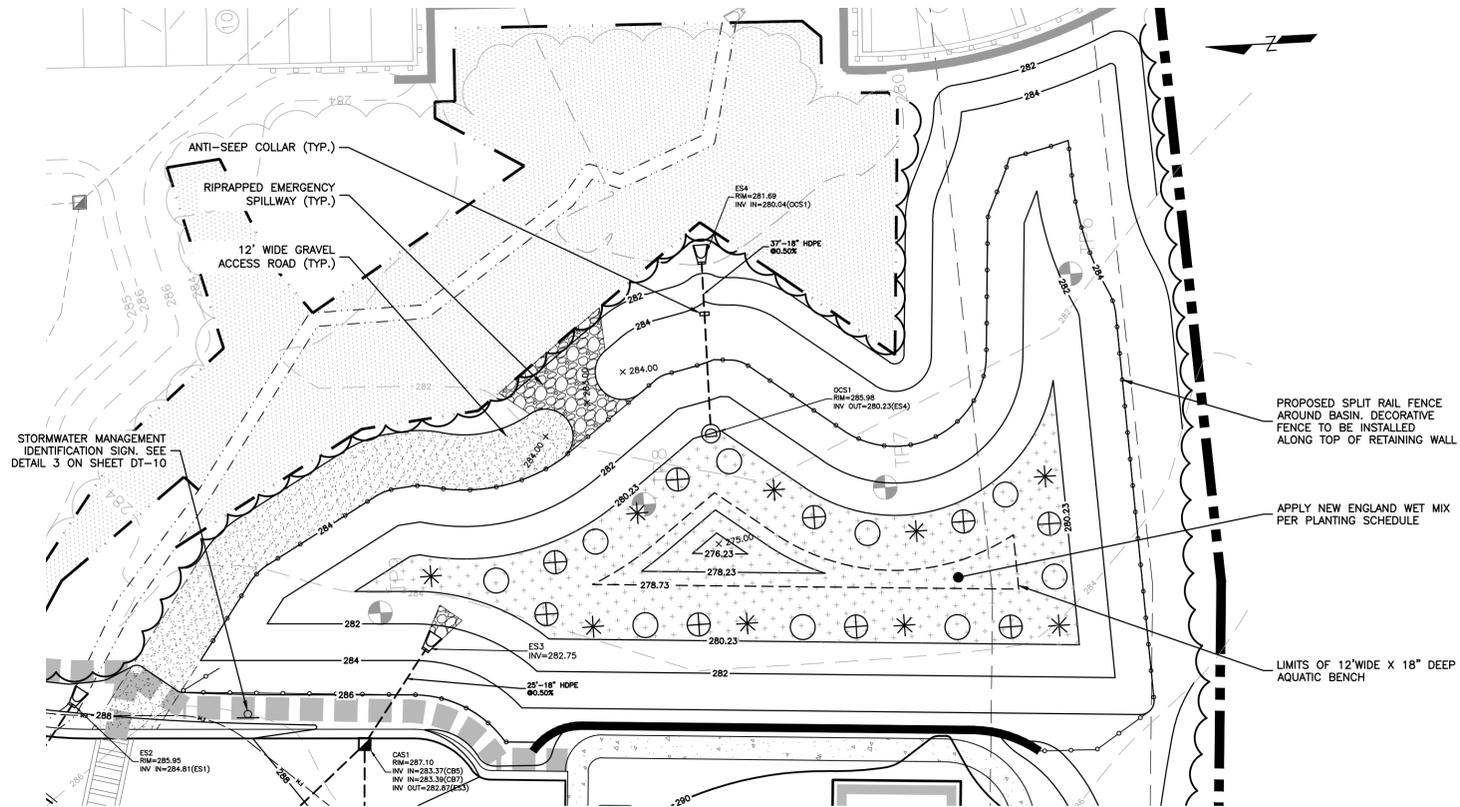
5 BIKE RACK
SCALE: NTS

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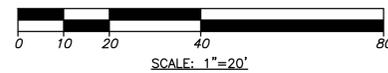
2272 NYS ROUTE 9 SITE PLAN AMENDMENT
 2272 NYS ROUTE 9, TOWN OF MALTA, SARATOGA COUNTY, NEW YORK

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MISCELLANEOUS
 SITE DETAILS
 (3 OF 3)
 PROJ. NO: 470.02
 SCALE: AS SHOWN
 DATE: 10/15/2024
 DT-9
 SHEET 18 OF 20



STORMWATER MANAGEMENT BASIN 1

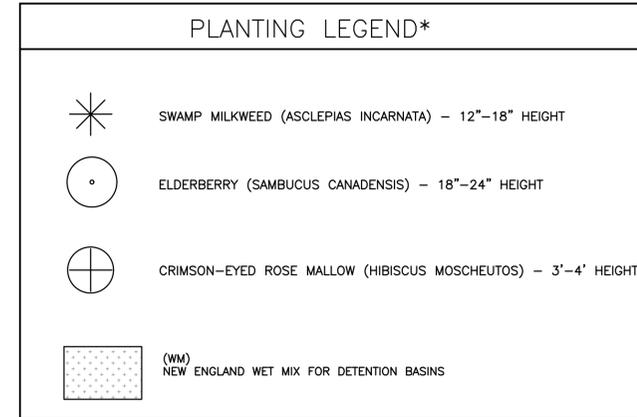


EMBANKMENT FILL NOTES:

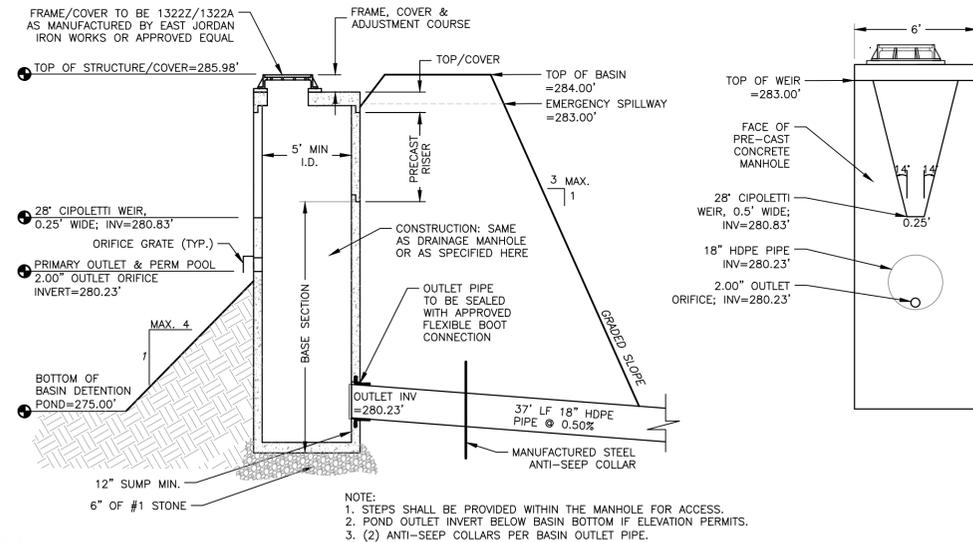
- EMBANKMENT FILL FOR THE STORMWATER BASIN BERM SHALL CONSIST OF A CLEAN WELL GRADED MIXTURE OF SILT, CLAY, SAND AND GRAVEL WITH NO PARTICLES LARGER THAN (6) INCHES. EXCAVATED ON SITE SOILS SHALL BE SELECTIVELY STOCKPILED FOR USE AS EMBANKMENT FILL IN AREAS DESIGNATED BY THE ENGINEER. SOIL SUITABLE FOR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

BASIN SEED PLANTING SCHEDULE

SEEDING MIXES	LOCATION	QUANTITY	NOTES
WM	REFER TO INDIVIDUAL PLANS FOR PLACEMENT	1.8 lbs	1 LB PER 2500 SF AS A WET MEADOW APPLICATION RATE
<p>** SEEDING MIXES SPECIFIED PER NEW ENGLAND WETLAND PLANTS, INC., 820 WEST STREET, AMHERST MA 01002, (413) 548-8000/ (413) 549-4000 FAX</p> <p>"NEW ENGLAND WETMIX": FOX SEDGE (CAREX VULPINOIDEA), FRINGED SEDGE (CAREX CRINITA), CANADA MANNA GRASS (GYCERIA CANADENSIS), CHUFA (CYPERUS ESCULENTITS), SOFT RUSH (JUNCITS EFFUSUS), BEARDED SEDGE (CAREX COMOSA), LURID SEDGE (CAREX LURIDA), WOODGRASS (SCIRPUS CYPERINUS), BONESET (ELTPATORIUM PERFORLTIUM), HOP SEDGE (CAREX LUPULIRTA), BLUE VERVAIN (VERBENA HASTATE), GREEN BULRUSH (SCIRPUS ATROVIRENS), JOE-PYE WEED (ELTPATORIUM FISTULOSUIN).</p>			



• - THE SIZE, TYPE AND CONFIGURATION OF ALL PLANTINGS ARE SUBJECT TO CHANGE BASED ON AVAILABILITY AND OWNER PREFERENCE. NECESSARY CHANGES OR SUBSTITUTIONS SHALL BE SUBMITTED TO THE TOWN OF MALTA FOR APPROVAL.



BASIN 1 OUTLET STRUCTURE (OCS1)

1

2



STORMWATER MANAGEMENT BASIN 1 CROSS SECTION

3



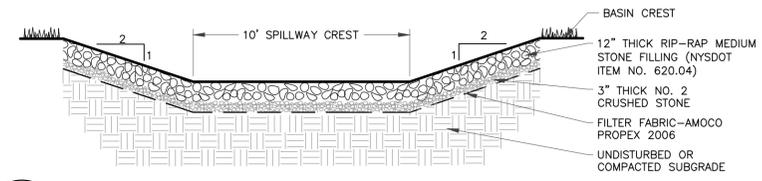
IMPERVIOUS LINER DETAIL

4



PROPOSED SWMB GRAVEL MAINTENANCE ACCESS DRIVE SECTION

5



EMERGENCY SPILLWAY CROSS SECTION

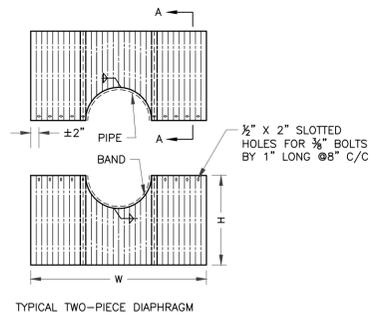
6

STORMWATER MANAGEMENT SYSTEM DETAILS (1 OF 2)

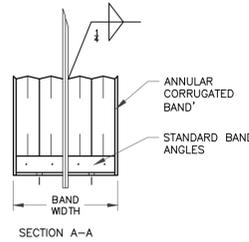
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TYPICAL TWO-PIECE DIAPHRAGM



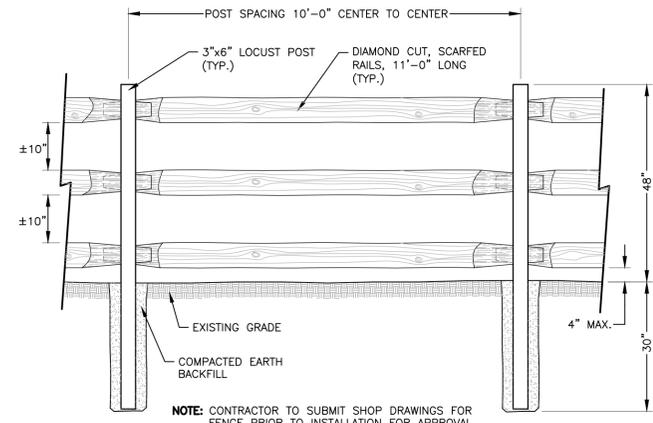
SECTION A-A

TYPICAL DIMENSIONS OF STEEL DIAPHRAGMS				
PIPE DIA. (IN.)	GAGE OF COLLAR	BAND WIDTH (IN.)	DIMENSIONS OF DIAPHRAGM	
			W (IN.)	H (IN.)
12	16	7"	64	32½
15	16	7"	64	34
18	16	7"	69½	35½
21	16	7"	72	37
24	14	7"	72	38½
30	14	7"	82½	41½
36	12	7"	88	44½
42	12	10½"	93½	47½
48	12	10½"	96	50½
54	12	10½"	106½	53½
60	10	10½"	112	56½
66	10	10½"	117½	59½
72	10	10½"	120	62½
84	8	10½"	136	68½

NOTES:

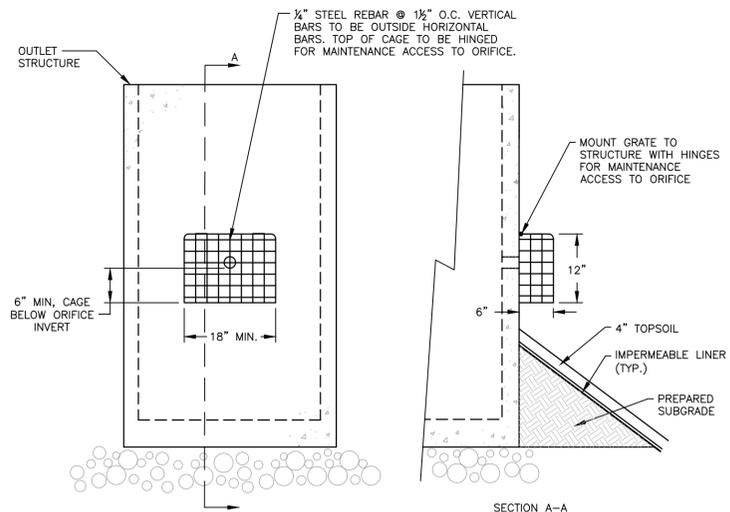
1. COLLAR SIZE BASED ON PLACEMENT @ PIPE JOINTS (20' C/C).
2. BAND IS CORRUGATED TO MATCH RE-ROLLED END OF PIPE BEING JOINED.
3. EACH DIAPHRAGM IS DELIVERED WITH (4) ½"x6" BOLTS AND (8) ¾"x1" BOLTS

1 MANUFACTURED STEEL ANTI-SEEP COLLAR
SCALE: NTS

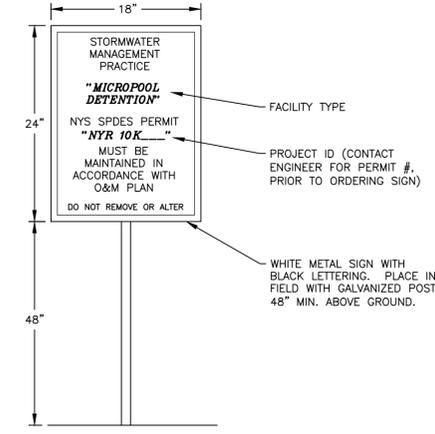


NOTE: CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR FENCE PRIOR TO INSTALLATION FOR APPROVAL BY ENGINEER.

4 WOOD SPLIT RAIL FENCE DETAIL
SCALE: NTS



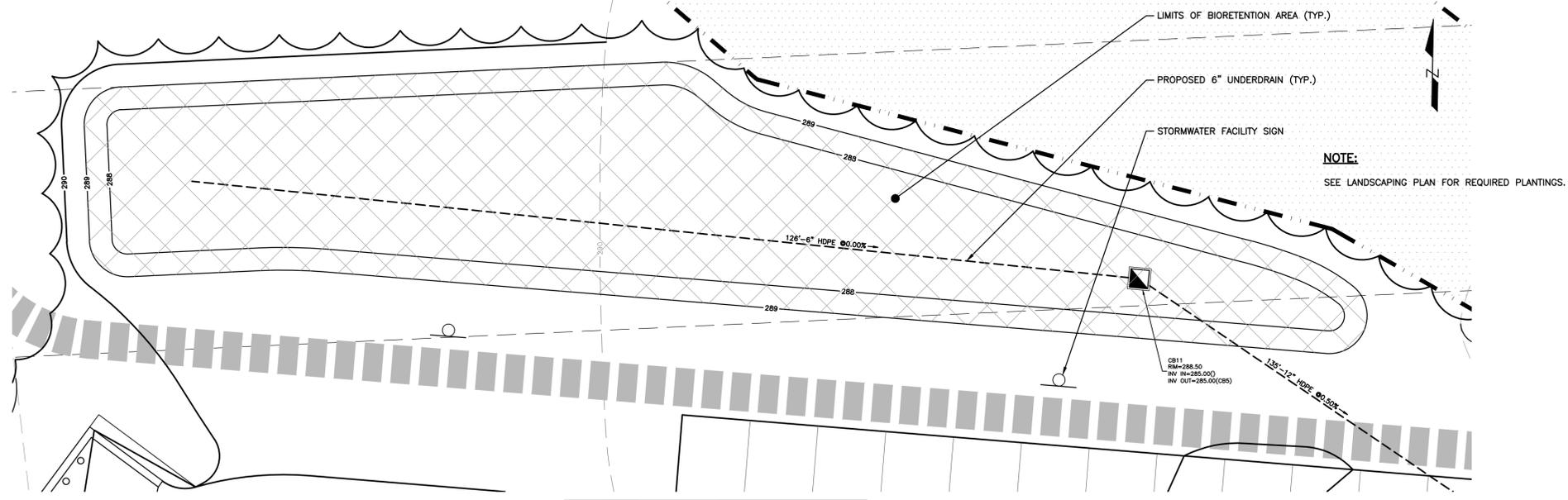
2 LOW FLOW ORIFICE GRATE DETAIL
SCALE: NTS



3 STORMWATER MANAGEMENT FACILITY NOTIFICATION SIGN
SCALE: NTS

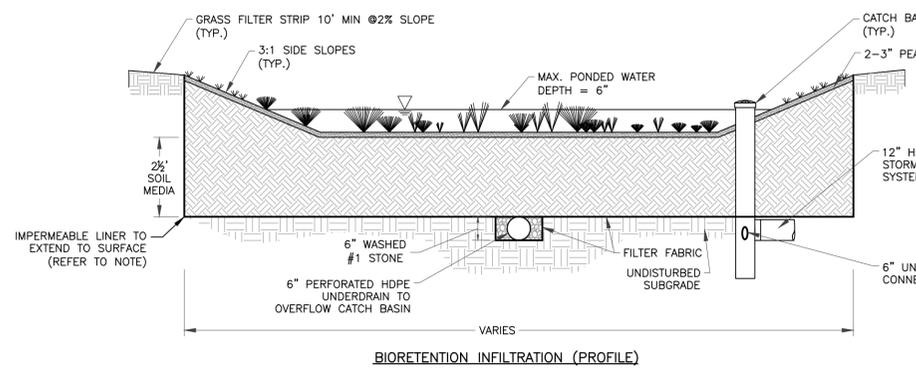
- NOTE:
1. SIGNS TO BE PLACED AT ALL STORMWATER MANAGEMENT PRACTICES IN ACCORDANCE WITH SECTION 3.5 OF THE NYS STORMWATER DESIGN MANUAL.
 2. "FACILITY TYPE" SHALL BE APPROPRIATE FOR THE ASSOCIATED STORMWATER MANAGEMENT PRACTICE; SEE TABLE 1.
 3. USE 10"x12" SIGN FOR STORM PRACTICES SMALLER THAN 400 SF.

TABLE 1 EXAMPLE FACILITY TYPES	
MICROPOOL DETENTION	
INFILTRATION BASIN	
BIORETENTION	
RAIN GARDEN	
VEGETATED SWALE	
INFILTRATION TRENCH	
POROUS PAVEMENT	
VEGETATED BUFFER	
POCKET POND	



NOTE:
SEE LANDSCAPING PLAN FOR REQUIRED PLANTINGS.

5 INFILTRATION BIORETENTION DETAIL
SCALE: NTS



5 INFILTRATION BIORETENTION DETAIL
SCALE: NTS

BIORETENTION NOTES

1. BIORETENTION AREA TO HAVE A MINIMUM AREA OF 7,200 SF.
2. MIN 15' GRASS W/2% SLOPE TO SURROUND BIODETENTION AREA, EXCLUDING AREA ADJACENT TO PARKING AREA.
3. 2-3" OF PEA STONE TO BE PLACED OVER BIODETENTION AREA.
4. THE SOIL FOR BIODETENTION AREAS SHALL BE A UNIFORM MIX, FREE OF STONES, STUMPS, ROOTS OR OTHER OBJECTS LARGER THAN 50 MM IN DIAMETER. THE BIODETENTION AREA SHALL BE VISIBLY FREE OF NOXIOUS WEEDS.
5. BIODETENTION AREA SHALL BE A WELL BLENDED MIXTURE OF THREE (3) PARTS SAND AND ONE (1) PART TOPSOIL, BY VOLUME. SAND SHALL MEET THE REQUIREMENTS OF NYS DOT SECTION 703-07 CONCRETE SAND. TOPSOIL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF NYS DOT SECTION 713-01 TOPSOIL FOR TOPSOIL TYPE A, EXCEPT AS FOLLOWS:
 - A) ALL TOPSOIL SHALL BE SAMPLED AND TESTED, REGARDLESS OF SOURCE.
 - B) SAMPLING OF TOPSOIL, AMENDED TOPSOIL, AND THE BIODETENTION AREA SHALL BE DONE BY CONTRACTOR/SUPPLIER. SAMPLING PROTOCOL SHALL BE IN ACCORDANCE WITH NYS DOT SECTION 713-01 TOPSOIL.

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 2455 STATE ROUTE 9 SUITE 301 - MALTA, NY 12020 - (518) 899-5243

STORMWATER MANAGEMENT SYSTEM DETAILS
(2 OF 2)