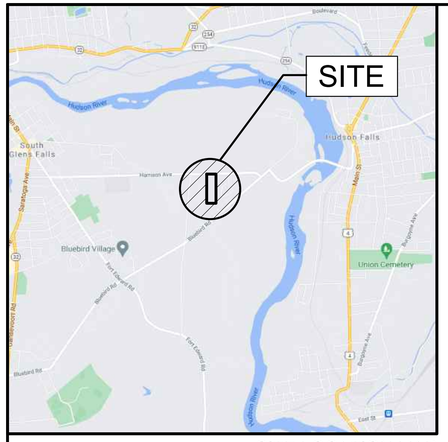

SITE LOCATION MAP
SCALE: 1" = 2,000'

PRELIMINARY SITE PLANS FOR

112 HARRISON AVE APARTMENS

APPLICANT/OWNER:

SCHERMERHORN REAL ESTATE HOLDINGS LP

112 HARRISON AVENUE
TOWN OF MOREAU, SARATOGA COUNTY, NEW YORK
SEPTEMBER 7, 2021

SITE STATISTICS

EXISTING ZONING	UR MULTIFAMILY DWELLING ONE– AND TWO–FAMILY RESIDENTIAL DISTRICT.
PARCEL AREA	2.017± ACRES
SETBACK REQUIREMENTS	
FRONT	30 FEET
SIDE	12 FEET
BACK	30 FEET
PROPOSED USE	APARTMENT COMPLEX
ALLOWABLE DENSITY	1 UNIT PER 5,000 SF (ZONING REQ)
DENSITY COMPUTATIONS	17.57 UNITS (GROSS LAND AREA*)
UNITS PROPOSED	16 UNITS
BUILDINGS PROPOSED	4 MULTI–FAMILY BUILDINGS
UNIT STATISTICS	
4 UNIT BUILDINGS	4 BUILDINGS (16 UNITS)
DENSITY RATIO	7.93 UNITS PER GROSS ACRE 7.93 UNITS PER NET ACRE
PARKING STATISTICS	
GARAGE SPACE	16± SPACES
OUTSIDE SPACES	48± SPACES
TOTAL SPACES	64± PARKING SPACES
PARKING RATIO	4.0± SPACES/UNIT
UTILITIES	
SANITARY SEWER	MUNICIPAL CONNECTION
WATER SERVICE	MUNICIPAL CONNECTION
STORMWATER MANAGEMENT	ON–SITE

SHEET INDEX

SHEET NUMBER	SHEET TITLE
1	COVER SHEET
2	EXISTING CONDITIONS & REMOVALS PLAN
3	SITE PLAN
4	GRADING PLAN
5	UTILITY PLAN
6	PLANTING PLAN
7	EROSION AND SEDIMENT CONTROL PLAN
8	SITE DETAILS
9	SITE DETAILS
10	SITE DETAILS

NYSDEC CONSTRUCTION CERTIFICATION NOTE:

THE CONSTRUCTION OF THE SANITARY SEWERS DEPICTED ON THESE PLANS SHALL BE UNDER THE SUPERVISION OF A PERSON OR FIRM QUALIFIED TO PRACTICE PROFESSIONAL ENGINEERING IN THE STATE OF NEW YORK UNDER THE EDUCATION LAW OF THE STATE OF NEW YORK. WITHIN THIRTY (30) DAY FOLLOWING THE COMPLETION OF THEE CONSTRUCTION THE ENGINEER SHALL CERTIFY TO THE DEPARTMENT OF ENVIRONMENTAL CONSERVATION AND TO THE OWNER THAT THE CONSTRUCTED FACILITIES HAVE BEEN CONSTRUCTED UNDER THE SUPERVISION AND THE WORK HAS BEEN FULLY COMPLETED IN ACCORDANCE WITH THE APPROVED ENGINEERING REPORT AND PLANS. THE PROJECT DEVELOPER MUST RECEIVE WRITTEN ACCEPTANCE OF SUCH CERTIFICATION FROM THE DEPARTMENT PRIOR TO PLACING THE FACILITIES IN SERVICE.

NEW YORK STATE DEPT. OF ENVIRONMENTAL CONSERVATION REGION 5	TOWN OF MOREAU PLANNING BOARD

RECORD OF SUBMITTALS	DATE	BY
SUBMISSION OF PRELIMINARY PLANS TO TOWN OF MOREAU PLANNING BOARD	09/07/2021	JCD
SUBMISSION OF PRELIMINARY PLANS TO TOWN OF MOREAU PLANNING BOARD	11/01/2021	JCD

PLANS PREPARED BY :

ENVIRONMENTAL DESIGN PARTNERSHIP, LLP.
900 Route 146 Clifton Park, New York 12065
(518) 371-7621 edpllp.com

ENVIRONMENTAL DESIGN PARTNERSHIP, LLP.
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PROPOSED APARTMENTS FOR
112 HARRISON AVE APT.
SCHERMERHORN REAL ESTATE HOLDINGS LP
LOCATED AT 112 HARRISON AVENUE
TOWN OF MOREAU
SARATOGA COUNTY, NEW YORK

TAX MAP ID: 37.-1-18
SEPTEMBER 7, 2021

DRAWN BY	ANR
CHECK BY	JCD
EDP PROJECT NUMBER	12842

REVISION	DATE	BY

SCALE:
AS NOTED

SHEET TITLE:
COVER SHEET

SHEET:
1 of 10

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SOIL DATA:

THE FOLLOWING TEST PITS WERE PERFORMED ON MARCH 15, 2021 AND WERE OBSERVED BY ENVIRONMENTAL DESIGN PARTNERSHIP, LLP:

TP#1
0" – 12" DARK BROWN TOPSOIL/ORGANIC MATERIAL
12" – 27" FINE SANDY LOAM, LIGHT BROWN
27" – 70" MEDIUM LIGHT BROWN SAND
GROUNDWATER AT 70" BELOW GRADE

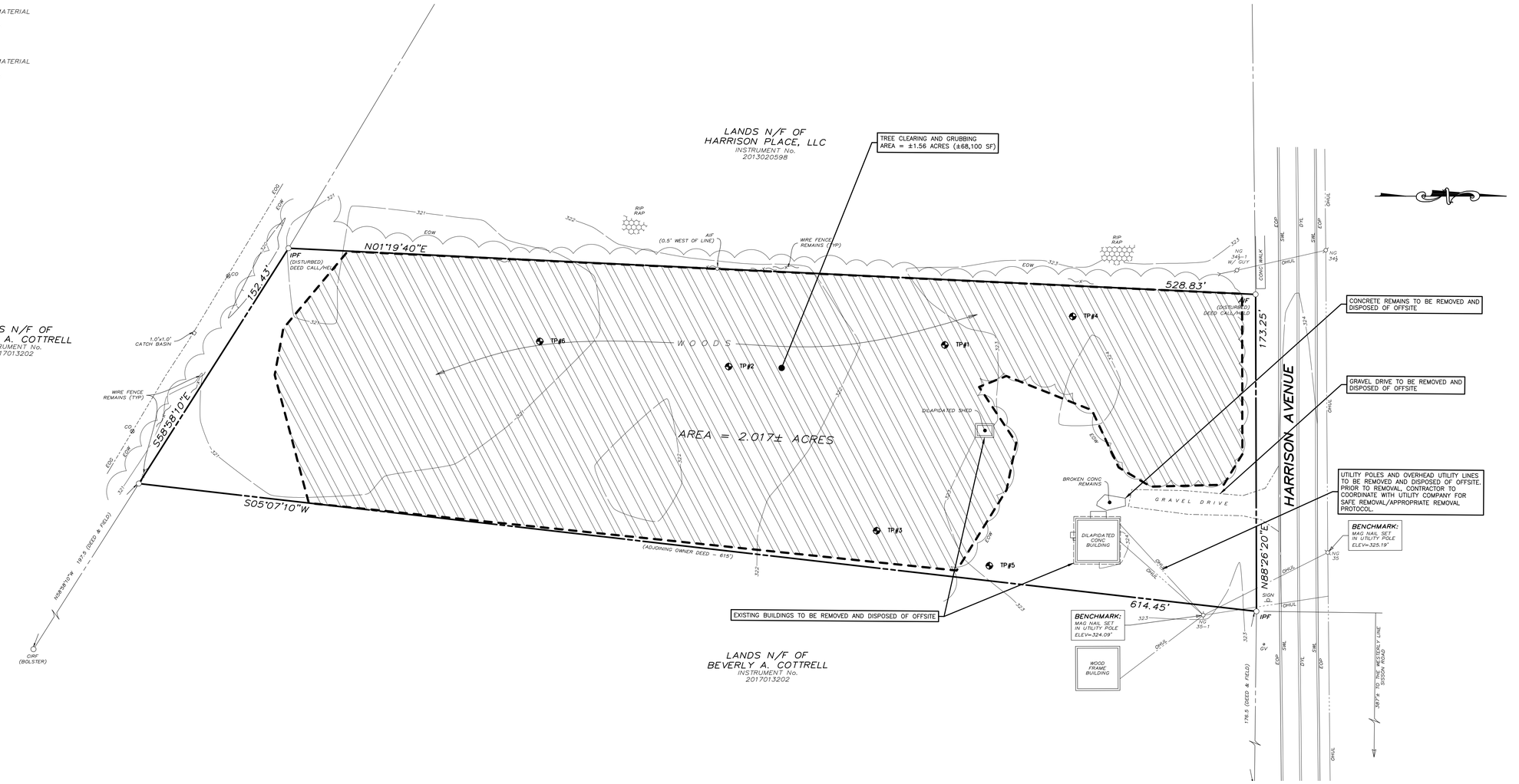
TP#2
0" – 12" DARK BROWN TOPSOIL/ORGANIC MATERIAL
12" – 30" FINE SANDY LOAM, LIGHT BROWN
30" – 70" MEDIUM LIGHT BROWN/GREY SAND
GROUNDWATER AT 70" BELOW GRADE

TP#3
0" – 7" DARK BROWN TOPSOIL/ORGANIC MATERIAL
7" – 18" FINE SANDY LOAM, LIGHT BROWN
18" – 96" MEDIUM LIGHT BROWN/GREY SAND
NO EVIDENCE OF MOTTLES OR SEASONAL WATER TABLE

TP#4
0" – 8" DARK BROWN TOPSOIL/ORGANIC MATERIAL
8" – 23" FINE SANDY LOAM, LIGHT BROWN
23" – 82" MEDIUM LIGHT BROWN/GREY SAND
NO EVIDENCE OF MOTTLES OR SEASONAL WATER TABLE

TP#5
0" – 12" DARK BROWN TOPSOIL/ORGANIC MATERIAL
12" – 23" FINE SANDY LOAM, LIGHT BROWN
23" – 100" MEDIUM LIGHT BROWN/GREY SAND
GROUNDWATER AT 100" BELOW GRADE

TP#6
0" – 12" DARK BROWN TOPSOIL/ORGANIC MATERIAL
12" – 28" FINE SANDY LOAM, LIGHT BROWN
28" – 68" MEDIUM LIGHT BROWN/GREY SAND
GROUNDWATER AT 68" BELOW GRADE



MAP REFERENCE:

1) MAP ENTITLED: "MAP OF A SURVEY MADE FOR KINGSWOOD VILLAGE, LLC"
MAP DATE: NOVEMBER 1, 2004
PREPARED BY: Van DUSEN & STEVES, LAND SURVEYORS

DEED REFERENCES:

1) TITLE SOURCE (Warranty Deed with Lien Covenant)
Grantor: Myles E. Fitzgerald
Grantee: Myles E. Fitzgerald, Jr.
Dated: May 10, 2010
Recorded: April 28, 2017
Instrument No. 2017013200

LEGEND:

199 DENOTES EXISTING TOPOGRAPHIC CONTOUR
BL.DG. DENOTES BUILDING
CATV DENOTES CABLE TV SERVICE BOX
C.B. DENOTES CATCH BASIN
C.I.R.F. DENOTES CAPPED IRON ROD FOUND
CONC. DENOTES CONCRETE
E.H. DENOTES ELECTRIC HANDHOLE
E.O.W. DENOTES EDGE OF WOODS
E.T. DENOTES ELECTRIC TRANSFORMER
G.V. DENOTES GATE VALVE
HYD. DENOTES FIR HYDRANT
I.P.F. DENOTES IRON PIPE FOUND
L.P. DENOTES LIGHT POLE
M.H. DENOTES SANITARY MANHOLE
N/F DENOTES NOW OR FORMERLY
OH.U.L. DENOTES OVERHEAD UTILITY LINES
T.P. DENOTES TELEPHONE PEDESTAL
U.B. DENOTES UTILITY BOX
U.P. DENOTES UTILITY POLE

SURVEY NOTES:

1) Boundary survey as prepared for Richard Schermerhorn.
2) No monumentation set.
3) All underground utilities, if any, not field located.
4) This survey was prepared without the benefit of an up-to-date abstract of title and is made subject to whatever state of facts such a document would reveal.
5) Field instrument survey completed on May 17, 2021.
6) Elevation Datum: NAVD 1988

NOTE:

SEE EROSION AND SEDIMENT CONTROL PLAN ON SHEET 7 OF 10 AND SEQUENCE OF CONSTRUCTION ACTIVITIES ON SHEET 8 OF 10 FOR DETAIL ON EROSION AND SEDIMENT CONTROL PRACTICES TO BE INSTALLED PRIOR TO DEMOLITION OF ANY EXISTING STRUCTURES.

REMOVALS LEGEND:

DENOTES EXISTING VEGETATION TO BE REMOVED

DENOTES APPROXIMATE LOCATION OF VEGETATION REMOVAL LIMITS

GRAPHIC SCALE

30 25 20 15 10 5 0 15 30 120
(IN FEET)
1 INCH = 30 FT.

ENVIRONMENTAL DESIGN PARTNERSHIP, LLP.
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PROPOSED APARTMENTS FOR **112 HARRISON AVE APT.**

SCHERMERHORN REAL ESTATE HOLDINGS LP

LOCATED AT 112 HARRISON AVENUE
TOWN OF MOREAU
SARATOGA COUNTY, NEW YORK

TAX MAP ID: 37.-1-18
SEPTEMBER 7, 2021

DRAWN BY	ANR
CHECK BY	JCD
EDP PROJECT NUMBER	12842

REVISION	DATE	BY

SCALE: 1" = 30'

SHEET TITLE: EXISTING CONDITIONS & REMOVALS PLAN

SHEET: 2 of 10

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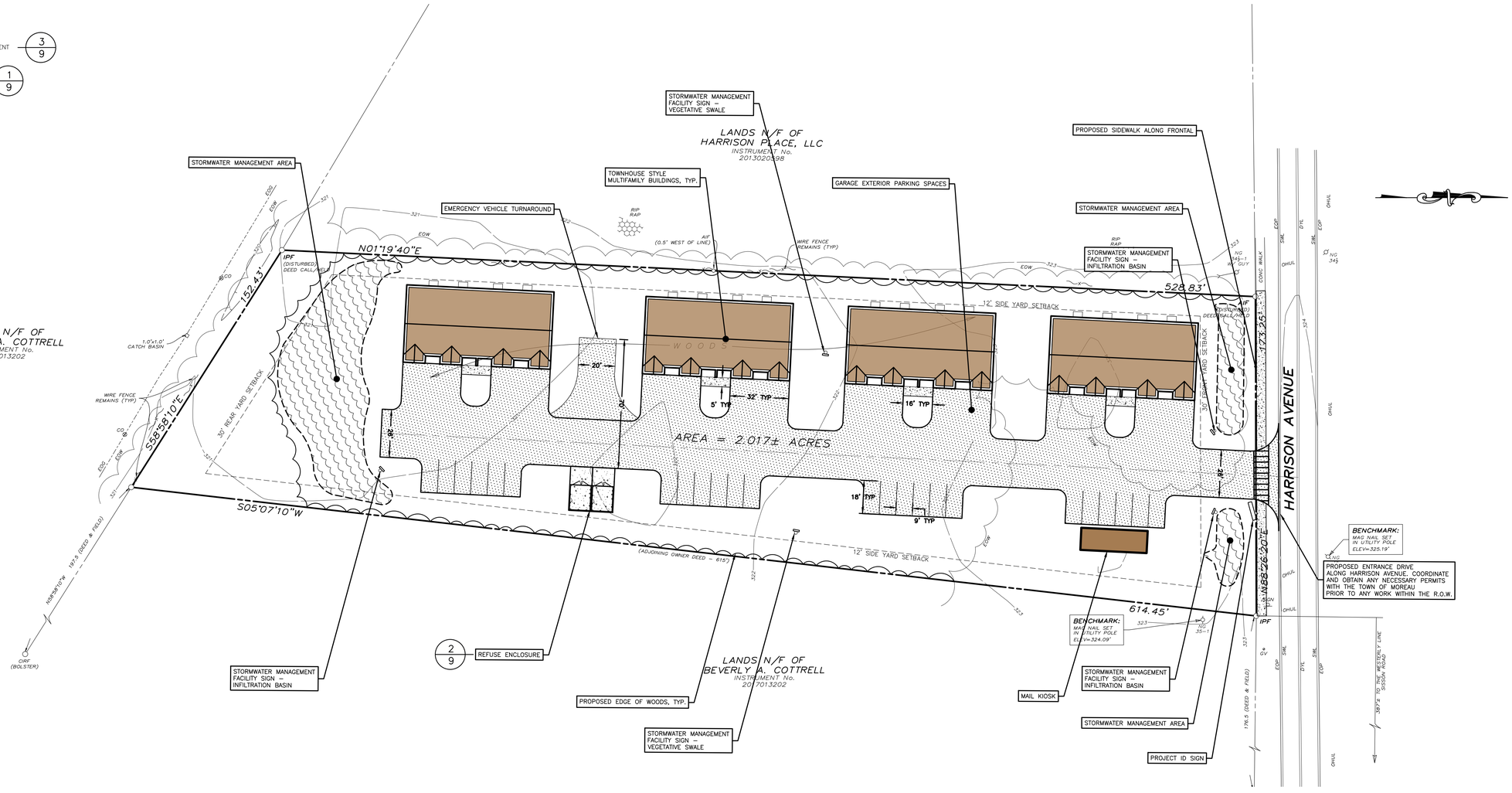
SITE PLAN LEGEND:

- DETAIL NUMBER / SHEET NUMBER — DETAIL KEY
- ACCESSIBLE PARKING SYMBOL
- STORMWATER MANAGEMENT FACILITY SIGN — 5/8
- ACCESSIBLE OR PARKING STRIPING — 7/9
- ACCESSIBLE RAMP PATTERN
- DETECTABLE WARNING STRIP — 6/9
- (12) NUMBER OF PARKING SPACES DESIGNATION
- SINGLE / DOUBLE / LAMP POST / WALL PACK — SITE LIGHTING
- PAVEMENT LIMITS
- AREA OF ASPHALT PAVEMENT — 3/9
- AREA OF CONCRETE — 1/9



GRAPHIC SCALE

30 25 20 15 10 5 0 15 30 120

(IN FEET)
1 INCH = 30 FT.

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SCHERMERHORN REAL ESTATE HOLDINGS LP

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TOWN OF MOREAU
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TAX MAP ID: 37.-1-18
SEPTEMBER 7, 2021

DRAWN BY	ANR
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EDP PROJECT NUMBER	12842

REVISION	DATE	BY

SCALE: 1" = 30'

SHEET TITLE: SITE PLAN

SHEET: 3 of 10

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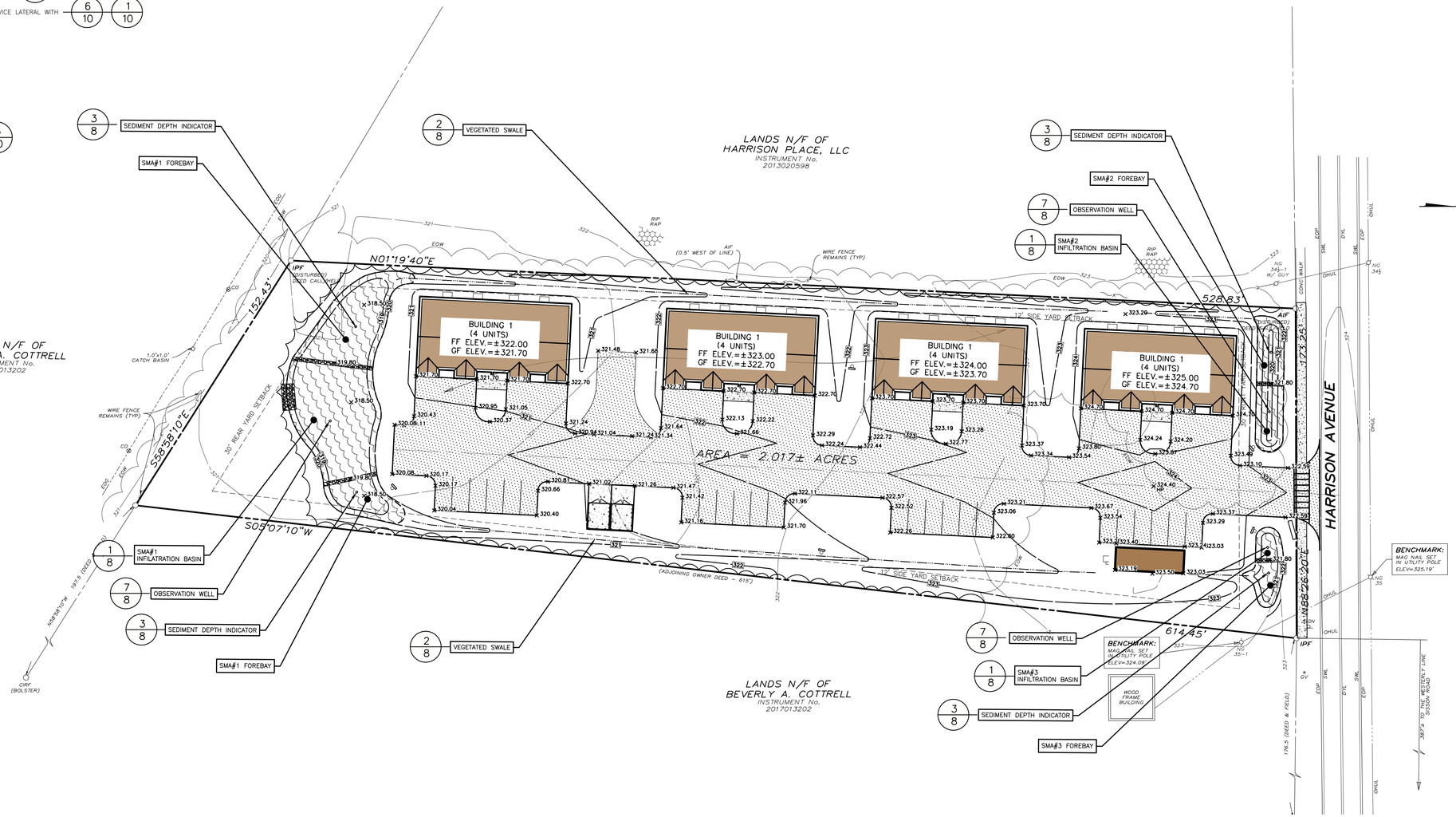
UTILITY AND GRADING PLAN LEGEND:

- DENOTES TYPICAL PROPOSED SHALLOW CATCH BASIN
- DENOTES TYPICAL PROPOSED DEEP CATCH BASIN
- DENOTES FLARED END SECTION
- DENOTES RIP-RAP OVERFLOW — 4/8
- DENOTES PROPOSED SPOT ELEVATION
- DENOTES EXISTING CONTOUR
- DENOTES PROPOSED CONTOUR
- DENOTES PROPOSED SANITARY MANHOLE — 2/10
- DENOTES LOW PRESSURE SEWER SERVICE LATERAL WITH GRINDER PUMP — 6/10, 1/10
- DENOTES PROPOSED HYDRANT
- DENOTES PROPOSED M.J. BEND
- DENOTES PROPOSED VALVE
- DENOTES PROPOSED M.J. TEE
- DENOTES WATER SERVICE LINE — 3/10



GRAPHIC SCALE

30 25 20 15 10 5 0 15 30 120

(IN FEET)
1 INCH = 30 FT.

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PROPOSED APARTMENTS FOR 112 HARRISON AVE APT.

SCHERMERHORN REAL ESTATE HOLDINGS LP

LOCATED AT 112 HARRISON AVENUE
TOWN OF MOREAU
SARATOGA COUNTY, NEW YORK

TAX MAP ID: 37.-1-18
SEPTEMBER 7, 2021

DRAWN BY	ANR
CHECK BY	JCD
EDP PROJECT NUMBER	12842

REVISION	DATE	BY

SCALE: 1" = 30'

SHEET TITLE: GRADING PLAN

SHEET: 4 of 10

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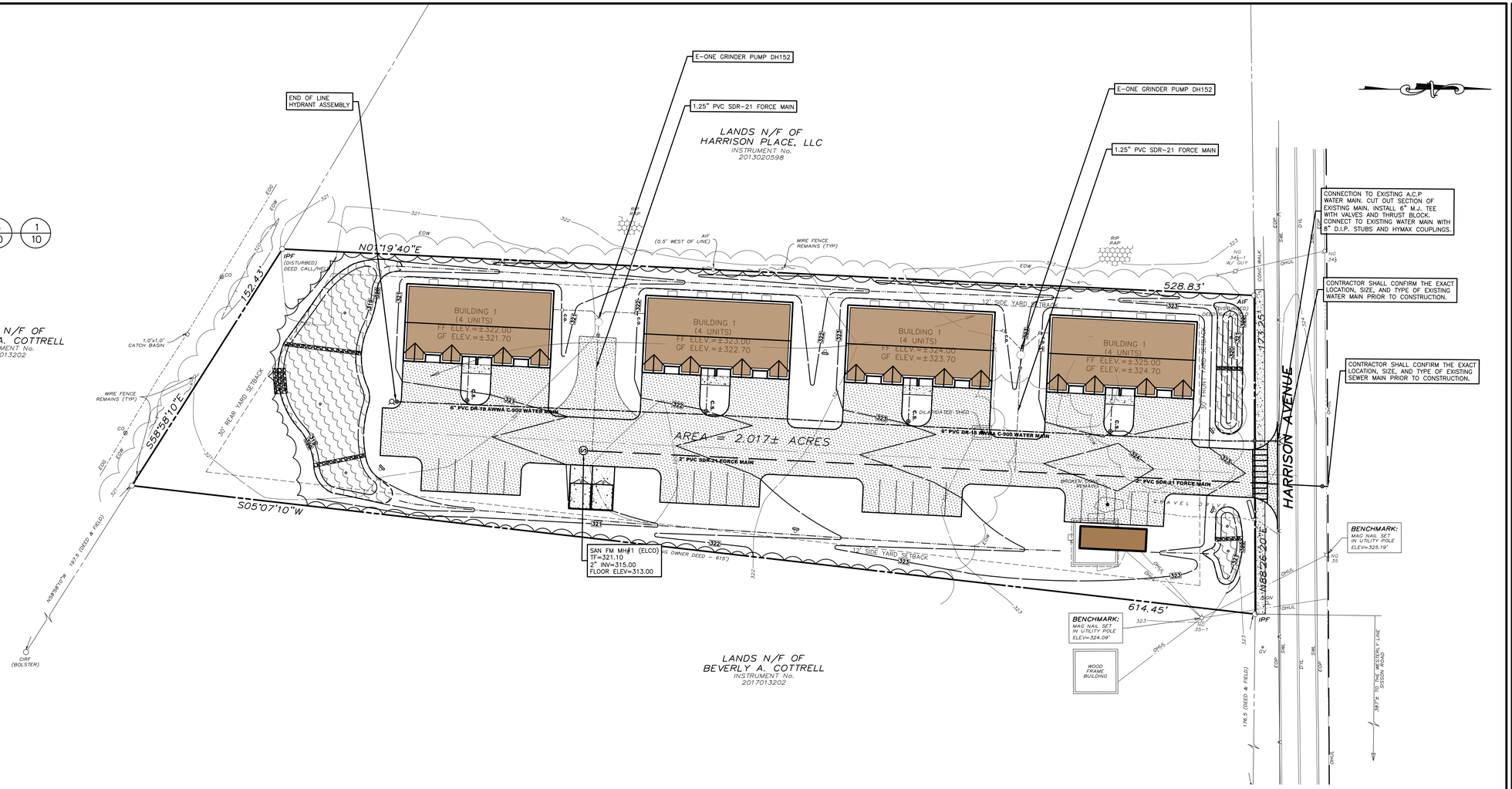
UTILITY AND GRADING PLAN LEGEND:

- DENOTES TYPICAL PROPOSED SHALLOW CATCH BASIN
- DENOTES TYPICAL PROPOSED DEEP CATCH BASIN
- DENOTES FLARED END SECTION
- DENOTES RIP-RAP OVERFLOW — 4/8
- 264.50 DENOTES PROPOSED SPOT ELEVATION
- 265 DENOTES EXISTING CONTOUR
- 265 DENOTES PROPOSED CONTOUR
- DENOTES PROPOSED SANITARY MANHOLE — 2/10
- G.P. DENOTES LOW PRESSURE SEWER SERVICE LATERAL WITH GRINDER PUMP — 6/10, 1/10
- DENOTES PROPOSED HYDRANT
- DENOTES PROPOSED M.J. BEND
- DENOTES PROPOSED VALVE
- DENOTES PROPOSED M.J. TEE
- W.S. DENOTES WATER SERVICE LINE — 3/10



GRAPHIC SCALE

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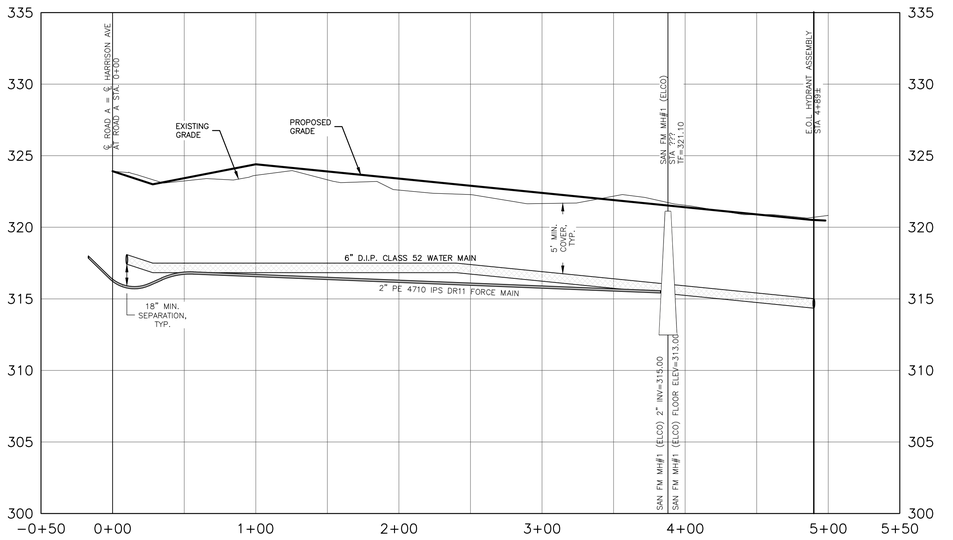
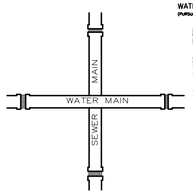
(IN FEET)
1 INCH = 30 FT.



UTILITY PROFILE

SCALE: HORIZONTAL 1"=50', VERTICAL 1"=5'



PLAN VIEW

AT ALL CROSSINGS OF SEWER AND WATER

WATER AND SEWER SEPARATION:
(PURSUANT TO NYS DOH REQUIREMENTS)

PARALLEL INSTALLATIONS: WATER MAINS SHALL LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED GRAVITY (OR FORCE) SANITARY OR STORM SEWER, MEASURED OUTSIDE TO OUTSIDE OF PIPE.

CROSSINGS: WATER MAINS CROSSING SEWERS SHALL BE INSTALLED TO PROVIDE A MINIMUM VERTICAL SEPARATIONS OF 18 INCHES, MEASURED OUTSIDE TO OUTSIDE OF PIPE, WITH A FULL 20 FOOT LENGTH OF WATER MAIN PIPE CENTERED SUCH THAT THE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING.

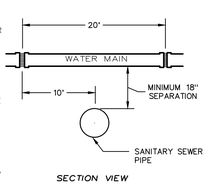
WHERE MINIMUM SEPARATIONS CANNOT BE MET, WITH CASE-BY-CASE APPROVAL FROM NYS DOH:

A. NEW SEWERS SHALL BE CONSTRUCTED OF MINIMUM 150 PSI PRESSURE- RATED AWWA WATER GRADE MATERIALS AND SHALL BE PRESSURE TESTED TO ENSURE WATER TIGHTNESS.

B. INSTALLATIONS CLOSER THAN 10 FOOT SEPARATION ONLY IF WATER MAIN IS LAID IN A SEPERATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF TEH SEWER AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE GRAVITY SEWER.

C. WHERE PRESSURE AND GRAVITY SEWERS PRE-EXIST: THE WATER MAIN SHALL BE INSTALLED WITHIN A PROTECTIVE CASING PIPE, CONSTRUCTED OF A MINIMUM 150 PSI PRESSURE-RATED AWWA WATER GRADE MATERIALS AND EXTEND 10 FT. MIN. ON BOTH SIDES OF THE SEWER BEING CROSSED OR, WHERE PARALLEL, TO A POINT WHERE THE LINES ARE SEPARATED BY 10 FEET.

D. WHERE A WATER MAIN AND/OR WATER WELLS PRE-EXIST AND A FORCE MAIN IS BEING CONSTRUCTED: THE FORCE MAIN SHALL BE INSTALLED WITHIN A PROTECTIVE CASING PIPE, CONSTRUCTED OF A MINIMUM 150 PSI PRESSURE-RATED AWWA WATER GRADE MATERIALS, AND EXTEND 10 FT. MIN. ON BOTH SIDES OF THE WATER MAIN BEING CROSSED; WHERE PARALLEL, TO A POINT WHERE THE LINES ARE SEPARATED BY 10 FEET; OR TO A POINT WHERE THE ENDS OF THE CASING PIPE ARE 150 FEET MIN. FROM ANY WATER LEVEL



SECTION VIEW

ENVIRONMENTAL DESIGN PARTNERSHIP, LLP.
900 Route 146 Clifton Park, New York 12065
(518) 371-7621
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PROPOSED APARTMENTS FOR 112 HARRISON AVE APT.

SCHERMERHORN REAL ESTATE HOLDINGS LP

LOCATED AT 112 HARRISON AVENUE
TOWN OF MOREAU
SARATOGA COUNTY, NEW YORK

TAX MAP ID: 37.-1-18
SEPTEMBER 7, 2021

DRAWN BY	ANR
CHECK BY	JCD
EDP PROJECT NUMBER	12842

REVISION	DATE	BY

SCALE: 1" = 30'

SHEET TITLE: UTILITY PLAN

SHEET: 5 of 10

R:\SARATOGA\Moreau\harrison ave\12 - schermerhorn\05-dwg\detailed plans\SHEETS\07_UPLN-12 Harrison.dwg Nov 01, 2021 10:00:07AM,

PLANTING NOTES:

1. PLANTING CONTRACTOR SHALL VERIFY FINAL SELECTION OF PLANT MATERIALS WITH THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
2. ALL AREAS OF SITE WHICH ARE DISTURBED AND NOT LANDSCAPED, PAVED, SHALL BE TOPSOILED, SEEDED, AND MULCHED (MULCH – STRAW, HYDROSEED MIX, OR BIODEGRADABLE NETTING.) MIXTURES TO BE APPLIED SHALL BE DETERMINED BY OWNER'S REPRESENTATIVES. TOPSOIL TO BE 4" MINIMUM.
3. EXISTING VEGETATION SHALL REMAIN UNDISTURBED WITHIN ALL AREAS OF SITE WHICH DO NOT REQUIRE GRADING.
4. ALL PLANTING BEDS TO RECEIVE 3" MINIMUM BARK MULCH WITH FILTER FABRIC WEED CONTROL OR EQUAL.
5. THIS PLAN IS FOR PLANTING PURPOSES ONLY. REFER TO SITE PLAN FOR DETAILED GRADING AND UTILITY INFORMATION.
6. GUARANTEE:
   A. FOR A PERIOD OF TWELVE MONTHS FROM THE DATE THAT THE WORK UNDER CONTRACT IS CERTIFIED AS COMPLETE, THE CONTRACTOR SHALL:

1. GUARANTEE ALL PLANTS AND SEEDED AREAS UNDER THIS CONTRACT;
2. REMOVE AND REPLACE DURING THIS GUARANTEE PERIOD, PLANTS WHICH DIE OR ARE IN A BADLY IMPAIRED CONDITION;
3. REPLANT WITH STOCK OF SAME SIZE AND QUALITY AS ORIGINALLY SPECIFIED;
4. GUY AND MAINTAIN AS SPECIFIED HEREIN, AT NO ADDITIONAL COST.

   B. REPLACEMENTS MADE WITHIN SIX MONTHS AFTER BEGINNING OF THE "GUARANTEE PERIOD" SHALL NOT EXTEND THE "GUARANTEE PERIOD" OF THESE PARTICULAR PLANTS; THOSE REPLACEMENTS MADE SIX MONTHS OR MORE AFTER THE BEGINNING OF THE "GUARANTEE PERIOD" SHALL BE MAINTAINED AND GUARANTEED FOR A PERIOD OF SIX MONTHS FROM THE TIME OF REPLACEMENT.

7. APPLICABLE STANDARDS: "AMERICAN STANDARD FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN AND "STANDARDIZED PLANT NAMES" BY THE AMERICAN JOINT COMMITTEE ON HORTICULTURAL NOMENCLATURE, ARE A PART OF THIS SPECIFICATION. ALL PLANTS SHALL BE NURSERY GROWN, NOT GATHERED IN THE FIELD.

PLANTING NOTE:

PLANTS LISTED IN THE PLANTING SCHEDULE CAN BE SUBSTITUTED FOR SIMILAR SPECIES OF THE SAME SIZE WITH THE APPROVAL OF THE OWNER/DEVELOPER AND/OR PROJECT LANDSCAPE ARCHITECT.

PLANTING BED PREPARATION NOTE:

ALL PAVEMENT, AND GRAVEL BASE SHALL BE REMOVED FROM PROPOSED PLANTING BEDS AREAS. COMPACTED SUB BASE MATERIALS SHALL BE DECOMPACTED FOR A DEPTH OF 12". PLANTING BEDS SHALL BE FREE OF ROOTS TILLED TO A DEPTH 12". INCORPORATE 2" OF COMPOST INTO SOIL AND TOP DRESS WITH 3" OF HARDWOOD MULCH.

TOPSOIL NOTE:

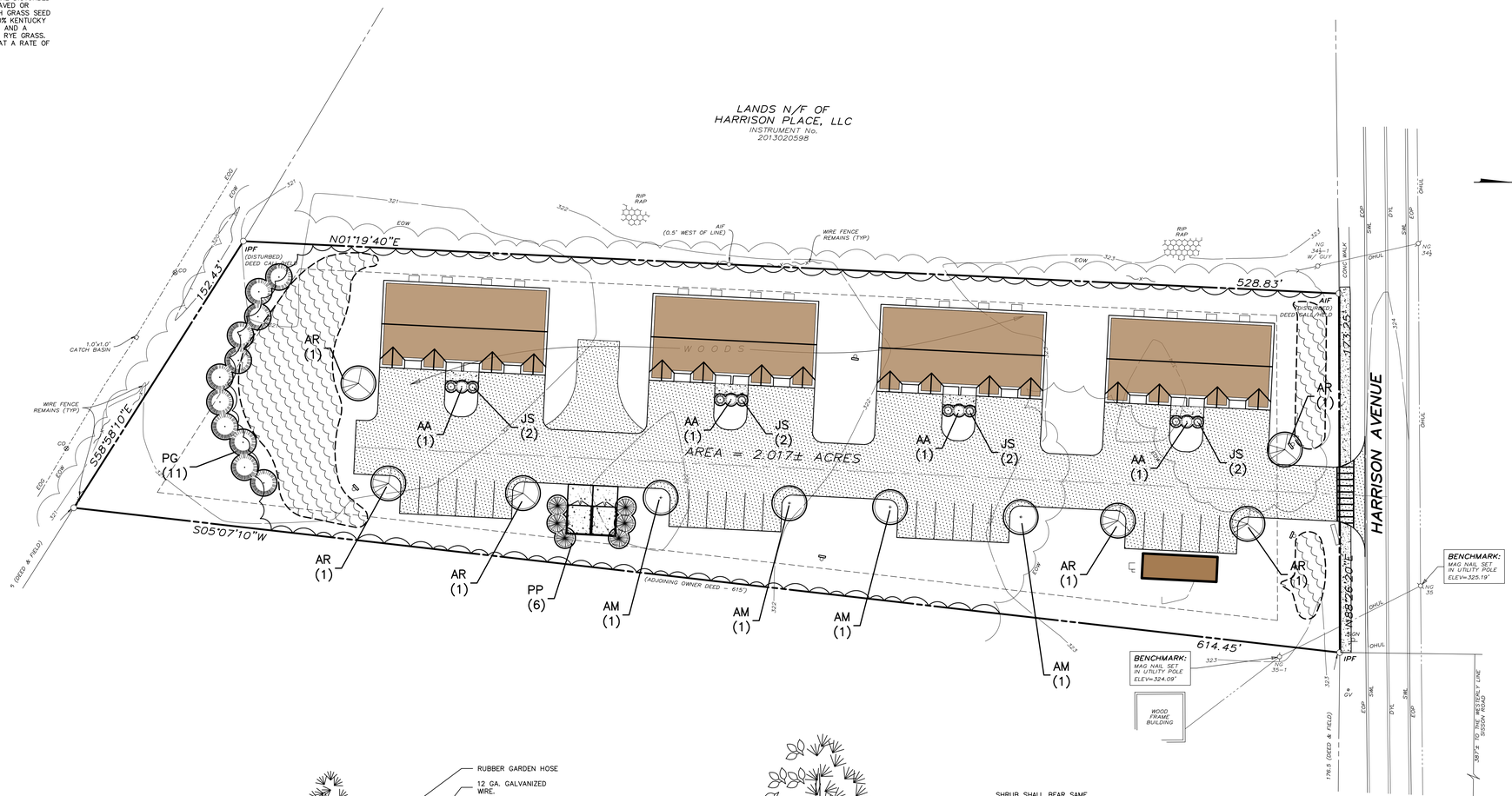
ALL AREAS WHICH ARE DISTURBED AND NOT LANDSCAPED, PAVED OR OTHERWISE RESTORED SHALL RECEIVE A MINIMUM OF 4" OF TOPSOIL. ALL LANDSCAPE BEDS SHALL RECEIVE A MINIMUM OF 12" OF TOPSOIL.
TOP SOIL SHALL HAVE;
2% –20% ORGANIC MATTER
PH OF 6–7.6%
MAXIMUM PARTICLE SIZE 1.5"

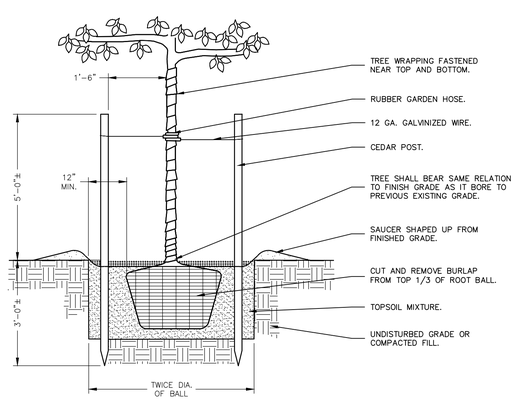
LAWN SEED MIX:

SEED ALL AREAS WHICH ARE DISTURBED AND NOT LANDSCAPED, PAVED OR OTHERWISE RESTORED WITH GRASS SEED CONTAINING A MINIMUM 20% KENTUCKY BLUE GRASS, 20% FESCUE AND A MAXIMUM OF 20% ANNUAL RYE GRASS. SEED SHALL BE APPLIED AT A RATE OF 7–10 LBS PER 1,000 SF.

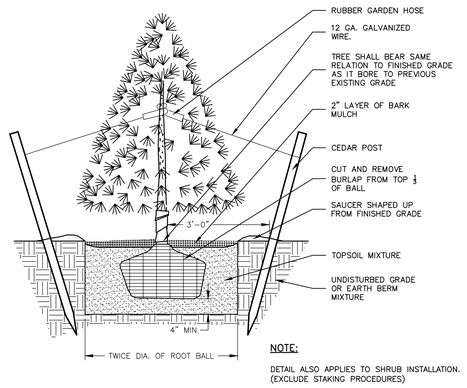
PLANT SCHEDULE:

QUANTITY	CODE NAME	SCIENTIFIC NAME	COMMON NAME	PLANTING SIZE (MIN.)	ALIAS	MATURE HEIGHT	MATURE WIDTH
6	AR	ACER RUBRUM 'AUTUMN SPIRE'	AUTUMN SPIRE RED MAPLE	2.5 CAL.	B & B	35± FT	20± FT
3	AM	AMELANCHIER 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE SERVICEBERRY	6' HT.	B & B	20± FT	15± FT
8	JS	JUNIPERUS SABINA BROADMOOR	BROADMOOR JUNIPER	3 GAL.	CG	2± FT	6± FT
4	AA	ARONIA ARBUTIFOLIA	RED CHOKEBERRY	3 GAL.	CG	5± FT	3± FT
11	PG	PICEA GLAUCA	WHITE SPRUCE	6' HT.	B & B	20± FT	10± FT
6	PP	PICEA PUNGENS 'BAKERI'	BAKERI SPRUCE	6' HT.	B & B	15± FT	8± FT



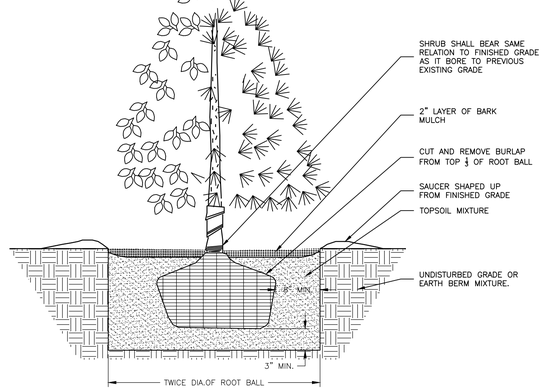


1/6 DECIDUOUS PLANTING
NOT TO SCALE



NOTE:
DETAIL ALSO APPLIES TO SHRUB INSTALLATION. (EXCLUDE STAKING PROCEDURES)

2/6 CONIFEROUS PLANTING
NOT TO SCALE



3/6 SHRUB PLANTING
NOT TO SCALE

GRAPHIC SCALE
30 25 20 15 10 5 0 15 30 120
(IN FEET)
1 INCH = 30 FT.

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PROPOSED APARTMENTS FOR
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EDP PROJECT NUMBER	12842

REVISION	DATE	BY

SCALE: 1" = 30'

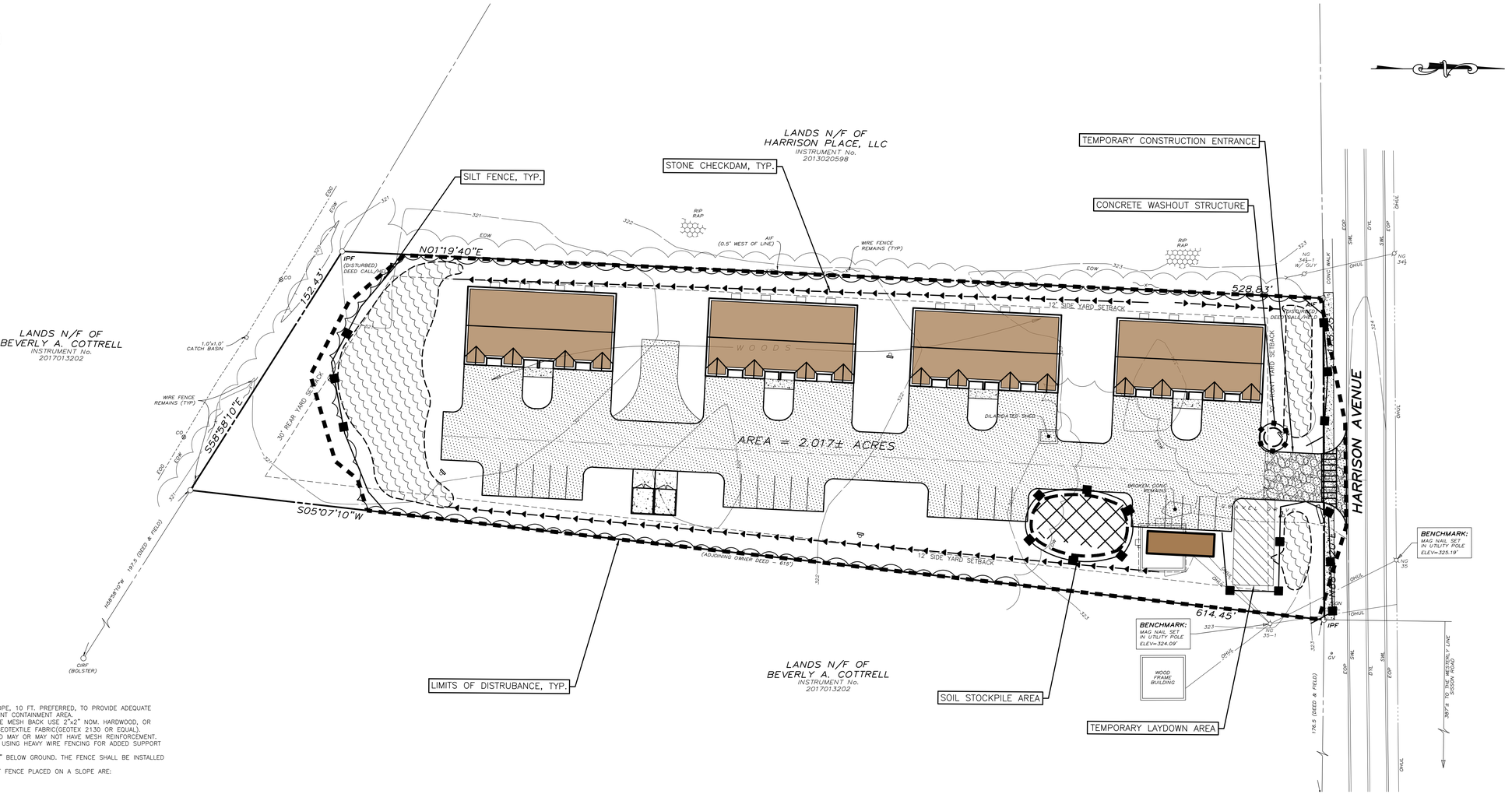
SHEET TITLE: PLANTING PLAN

SHEET: 6 of 10

R:\SARATOGA\Moreau\Harrison ave\112 - schermerhorn\05-dwg\detailed plans\SHEETS\08_PLNT-112 Harrison.dwg Nov 01, 2021 11:00:17AM,

EROSION AND SEDIMENT CONTROL LEGEND:

- STABILIZED CONSTRUCTION ENTRANCE — 2/7
- RIP-RAP
- TEMPORARY SILT FENCE — 1/7
- LIMITS OF DISTURBANCE
- STONE CHECK DAM — 3/7



GRAPHIC SCALE

30 25 20 15 10 5 0 15 30 120

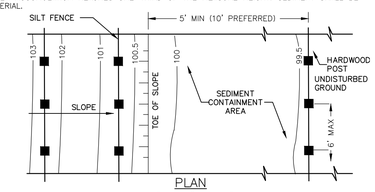
(IN FEET)
1 INCH = 30 FT.

SILT FENCE GENERAL NOTES:

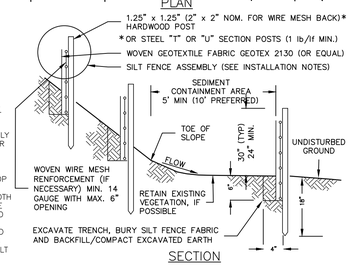
1. SILT FENCE SHALL BE PLACED A MINIMUM OF 5 FT. FROM TOE OF SLOPE, 10 FT. PREFERRED, TO PROVIDE ADEQUATE AREA FOR SEDIMENT STORAGE AND FACILITATE MAINTENANCE OF SEDIMENT CONTAINMENT AREA.
2. POSTS MAY BE 1.25"x1.25" (MINIMUM) HARDWOOD, TYPICALLY. FOR WIRE MESH BACK USE 2"x2" NOM. HARDWOOD, OR STEEL "T" OR "U" POSTS (1lb per lf). SILT FENCE SHALL BE WOVEN GEOTEXTILE FABRIC(GEOTEX 2130 OR EQUAL).
3. SILT FENCE ASSEMBLIES MAY HAVE 4 FT. OR 6 FT. POST SPACING, AND MAY OR MAY NOT HAVE MESH REINFORCEMENT. SENSITIVE AREAS TO BE PROTECTED MAY NEED TO BE REINFORCED BY USING HEAVY WIRE FENCING FOR ADDED SUPPORT TO PREVENT COLLAPSE.
4. THE BOTTOM EDGE OF SILT FENCE SHALL BE BURIED A MINIMUM OF 6" BELOW GROUND. THE FENCE SHALL BE INSTALLED WITH THE POSTS ON THE DOWNSTREAM SIDE OF THE FABRIC.
5. MAXIMUM ALLOWABLE SLOPE LENGTHS CONTRIBUTING RUNOFF TO A SILT FENCE PLACED ON A SLOPE ARE:

SLOPE STEEPNESS	MAXIMUM LENGTH (ft.)
2:1	25
3:1	50
4:1	75
5:1 OR FLATTER	100

6. MAXIMUM DRAINAGE AREA FOR OVERLAND FLOW TO A SILT FENCE SHALL NOT EXCEED ¼ ACRE PER 100 FEET OF FENCE, WITH MAXIMUM PONDING DEPTH OF 1.5 FEET BEHIND THE FENCE; AND EROSION WOULD OCCUR IN THE FORM OF SHEET EROSION; AND THERE IS NO CONCENTRATION OF WATER FLOWING TO THE BARRIER.
7. MEASURES SHALL BE INSPECTED EVERY SEVEN (7) CALENDAR DAYS, AFTER EACH RAINFALL OF .5" OR MORE WITHIN A 12 HOUR PERIOD, OR DAILY DURING PROLONGED RAINFALL. MEASURES SHALL BE CLEANED AND REPAIRED AS REQUIRED.
8. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATION REACHES ONE-THIRD OF THE MEASURE HEIGHT. SEDIMENT SHALL BE DISPOSED OF AS UNSUITABLE MATERIAL.



PLAN

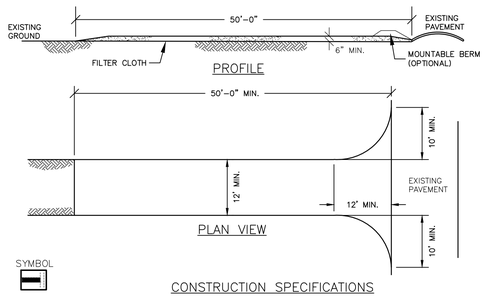


SECTION

SILT FENCE INSTALLATION NOTES:

1. GEOTEXTILE FABRIC AND WOVEN WIREMESH TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACES EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES, FOLDED AND STAPLED.
4. MAINTENANCE SHALL BE PERFFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

1/7 SILT FENCE
NOT TO SCALE



PROFILE

PLAN VIEW

SYMBOL

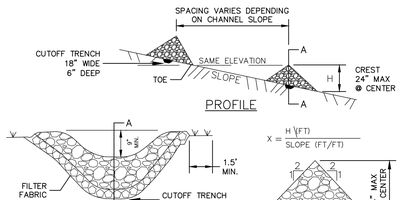
CONSTRUCTION SPECIFICATIONS

1. STONE SIZE – USE 2" CRUSHED STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – AS EFFECTIVE BUT NOT LESS THAN 50 FEET.
3. THICKNESS – NOT LESS THAN SIX(6) INCHES.
4. WIDTH – TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH – WILL BE PLACED OVER ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
5. WASHING – WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE THROUGH USE OF SAND BAGS, GRAVEL BOARDS OR OTHER APPROVED METHODS.
6. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DRIPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
7. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

2/7 STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

NOTE:

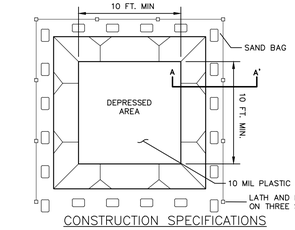
STORMWATER DETENTION PONDS MAY ALSO SERVE AS A TEMPORARY SEDIMENT BASIN IF PARTIAL EXCAVATION IS PERFORMED TO A MINIMUM LIMIT OF 18" ABOVE THE BOTTOM OF THE DETENTION POND.



CONSTRUCTION SPECIFICATIONS

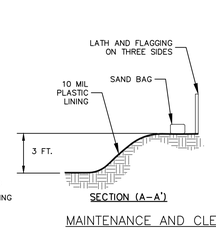
1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
2. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOW OF THE UPSTREAM DAM.
3. EXTEND THE STONE A MINIMUM OF 1.5 FEET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

3/7 CHECK DAM
NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

1. CONCRETE WASHOUT FACILITY SHALL BE LOCATED A MINIMUM OF FIFTY FEET (50') FROM SENSITIVE AREAS.
2. 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 ENERATED BY WASHOUT OPERATIONS. (APPROXIMATELY 60 GALLONS OF WASTE AND WATER PER TRUCK).
3. PLASTIC LINING MATERIAL SHALL BE A MINIMUM TO MIN POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.
4. WASHOUT FACILITY MUST BE CLEANED, OR NEW FACILITES MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL.



MAINTENANCE AND CLEANING

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

4/7 CONCRETE WASHOUT FACILITY
NOT TO SCALE

ENVIRONMENTAL DESIGN PARTNERSHIP, LLP.
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(518) 371-7621
edpllp.com

PROPOSED APARTMENTS FOR
112 HARRISON AVE APT.
SCHERMERHORN REAL ESTATE HOLDINGS LP

LOCATED AT 112 HARRISON AVENUE
TOWN OF MOREAU
SARATOGA COUNTY, NEW YORK

TAX MAP ID: 37.-1-18
SEPTEMBER 7, 2021

DRAWN BY	ANR
CHECK BY	JCD
EDP PROJECT NUMBER	12842

REVISION	DATE	BY

SCALE:
1" = 30'

SHEET TITLE:
EROSION AND SEDIMENT CONTROL PLAN

SHEET:
7 of 10

R:\SARATOGA\Moreau\harrison ave\112 - schermerhorn\05-dwg\detailed plans\SHEETS\07_ERDS-112 Harrison.dwg Nov 01, 2021 10:06:43AM,

EROSION AND SEDIMENT CONTROL AND STABILIZATION MEASURES, MAINTENANCE AND INSPECTION PRACTICES:

1. THE FOLLOWING IS A LIST OF EROSION AND SEDIMENT CONTROLS TO BE USED ON THIS SITE DURING CONSTRUCTION:

   A) STABILIZATION PRACTICES FOR THIS SITE INCLUDE:
   - LAND CLEARING ACTIVITIES SHALL BE DONE ONLY IN AREAS WHERE EARTHWORK WILL BE PERFORMED AND SHALL PROGRESS AS EARTHWORK IS NEEDED
   - FREQUENT WATERING OF EXCAVATION AND FILL AREAS TO MINIMIZE WIND EROSION DURING CONSTRUCTION.
   - USE OF STABILIZATION FABRIC FOR ALL SLOPES HAVING A SLOPE OF 1V:2H OR GREATER AND FILL SLOPES 1V:3H OR GREATER.
   - PERMANENT SEEDING AND PLANTING OF ALL UNPAVED AREAS USING THE HYDROMULCHING GRASS SEEDING TECHNIQUE.

   B) STRUCTURAL PRACTICES FOR THIS SITE INCLUDE:
   - PERIMETER PROTECTION USING SILT FENCES
   - INLET PROTECTION AND OUTLET PROTECTION USING SILT FENCES
   - STORM SEWER, CURBS AND GUTTERS
   - STABILIZED CONSTRUCTION EXIT POINTS
   - STORMWATER DETENTION PONDS (WHICH MAY ALSO SERVE AS A TEMPORARY SEDIMENT BASIN IF PARTIAL EXCAVATION IS PERFORMED TO A MINIMUM LIMIT OF 18" ABOVE THE BOTTOM OF THE DETENTION POND)

2. THE FOLLOWING INSPECTION AND MAINTENANCE PRACTICES WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS AND STABILIZATION MEASURES:
   A) ALL CONTROL MEASURES WILL BE INSPECTED AT LEAST WEEKLY.
   B) ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF REPAIRS ARE FOUND TO BE NECESSARY, THEY WILL BE INITIATED WITHIN 24 HOURS OF REPORT.
   C) BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCES / STRAW BARRIERS WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.
   D) SILT FENCES / STRAW BARRIERS WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, ETC., TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE SECURELY IN THE GROUND.
   E) THE SEDIMENT BASIN, IF PRESENT, WILL BE INSPECTED FOR DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 50 PERCENT OF THE DESIGN CAPACITY.
   F) TEMPORARY AND PERMANENT SEEDING AND ALL OTHER STABILIZATION MEASURES WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
   G) A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. COPIES OF THE REPORT FORMS TO BE COMPLETED BY THE INSPECTOR ARE INCLUDED IN THIS SWPPP.
   H) THE JOB SITE SUPERINTENDENT WILL BE RESPONSIBLE FOR SELECTING AND TRAINING THE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR THESE INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT INSPECTION AND MAINTENANCE REPORTS.
   I) PERSONNEL SELECTED FOR THE INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE APPROPRIATE INSTRUCTION FROM THE JOB SITE SUPERINTENDENT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS THAT ARE USED ONSITE IN GOOD WORKING ORDER. THEY WILL ALSO BE TRAINED IN THE COMPLETION OF, INITIATION OF ACTIONS REQUIRED BY, AND THE FILING OF THE INSPECTION FORMS. DOCUMENTATION OF THIS PERSONNEL TRAINING WILL BE KEPT ON SITE WITH THE SWPPP.
   J) DISTURBED AREAS AND MATERIALS STORAGE AREAS WILL BE INSPECTED FOR EVIDENCE OF OR POTENTIAL FOR POLLUTANTS ENTERING STORMWATER SYSTEMS.
   K) REPORT TO THE NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION WITHIN 24 HOURS ANY NONCOMPLIANCE WITH THE SWPPP THAT WILL ENDANGER PUBLIC HEALTH OR THE ENVIRONMENT. FOLLOW UP WITH A WRITTEN REPORT WITHIN 5 DAYS OF THE NONCOMPLIANCE EVENT.

ADDITIONAL EROSION CONTROL AND GRADING NOTES:

1. **MINIMAL EROSION CONTROL DEVICES ARE ILLUSTRATED ON SITE PLAN IN A SCHEMATIC MANNER BASED ON NY STATE GUIDELINES FOR EROSION AND SEDIMENT CONTROL. IT WILL BE NECESSARY TO ADJUST THE ACTUAL LOCATION AND QUANTITY OF EROSION CONTROL DEVICES DEPENDING UPON FIELD CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING THESE MEASURES AS REQUIRED TO PROTECT THE SITE.**
2. SLOPES SHALL TYPICALLY BE GRADED AT A MAXIMUM OF 3:1 (3 HORIZ. 1 VERT.) WITHIN ALL CUT OR FILL AREAS, UNLESS OTHERWISE DESIGNATED ON PLANS.
3. SEED SHALL BE A COMMERCIALLY AVAILABLE MIXTURE OF PERENNIAL RYE AND UTILITY GRADE FESCUE. PERCENTAGE OF PERENNIAL RYE SHALL NOT EXCEED 50%.
4. SEEDED AREAS SHALL BE FULLY COVERED WITH A LEAN STRAW OR MULCH MATERIAL. IF ORDERED BY THE ENGINEER OR MUNICIPALITY, A BIODEGRADABLE NETTING (E.G., EXCELSIOR BLANKET, COIR GEOTEXTILE) SHALL BE ANCHORED OVER SEEDED AREAS WHICH DEMONSTRATE "RILLING" OR OTHER EROSION PROCESSES.
5. TOPSOIL AND SEED SHALL BE REAPPLIED TO ANY AREAS WHICH FAIL TO ESTABLISH AS A RESULT OF INITIAL APPLICATION.
6. SILT FENCE BARRIERS SHALL BE PLACED WITHIN ALL AREAS OF EXPOSED SLOPES TO CONTROL SOIL EROSION DURING AND AFTER CONSTRUCTION.
7. ALL STORM OUTFALLS SHALL RECEIVE RIP RAP IMMEDIATELY UPON INSTALLATION (AS PER PLAN).
8. EROSION CONTROL (ERO-MAT) OR APPROVED EQUAL, SHALL BE INSTALLED ON ALL 2:1 SLOPES: AN ORGANIC FIBER PROTECTIVE MAT, HALF INCH LAYER OF CHOPPED STRAW, KNITTED INTO A RUGGED MAT WITH A THIN NETTING OF PHOTODEGRADABLE POLYPROPYLENE. SECURE MAT TO SLOPE WITH 6" STEEL U-SHAPED STABLES, 2 STAPLES PER SQUARE YARD, OR AS PER MANUFACTURER'S INSTRUCTIONS.
9. STREAM REACHES ON-SITE AND DOWNSTREAM OF CONSTRUCTION SHALL NOT HAVE SUBSTANTIAL VISIBLE CONTRAST RELATIVE TO COLOR, TASTE, ODOR, TURBIDITY AND SEDIMENT DEPOSITION FROM THE REACHES UPSTREAM OF THE CONSTRUCTION ACTIVITY.
10. VEHICULAR ACCESS POINTS SHALL BE MONITORED AND INSPECTED AT THE SAME FREQUENCY AS EROSION CONTROL FEATURES TO INSURE THAT DEPOSITS OF SAND, SILT OR OTHER MATERIAL IS NOT BEING DEPOSITED ON PUBLIC ROADWAYS. IN THE EVENT ANY SIGNIFICANT DEPOSITS OCCUR THEY SHALL BE CLEANED UP IMMEDIATELY.
11. KEEP ALL CONSTRUCTION EQUIPMENT, TOPSOIL STOCKPILES AND ANY TEMPORARY/PERMANENT GRAVEL AREAS OFF FUTURE SEPTIC AREAS.

SEQUENCE OF CONSTRUCTION ACTIVITIES:

1. CONSTRUCT TEMPORARY CONSTRUCTION EXITS AT LOCATIONS SHOWN.
2. INSTALL PERIMETER SILT FENCES AND TEMPORARY SEDIMENT BASIN IN THE LOCATIONS SHOWN AND OTHER LOCATIONS AS NECESSARY TO STABILIZE THE SITE.
3. DEMOLISH EXISTING STRUCTURES.
4. BEGIN CLEARING AND GRUBBING OPERATIONS. CLEARING AND GRUBBING SHALL BE DONE ONLY IN AREAS WHERE EARTHWORK WILL BE PERFORMED AND ONLY IN AREAS WHERE BUILDING IS PLANNED TO COMMENCE WITHIN 14 DAYS AFTER CLEARING AND GRUBBING.
5. FREQUENT WATERING OF THE EXCAVATION AND FILL AREAS SHALL BE DONE TO MINIMIZE WIND EROSION.
6. COMMENCE SITE GRADING AND CONSTRUCTION.
7. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS CEASED FOR MORE THAN 14 DAYS SHALL BE TEMPORARILY SEEDED AND WATERED.
8. INSTALL PROTECTIVE SILT FENCES / BARRIERS AT THE LOCATIONS OF ALL GRATE INLETS, CURB INLETS, AND AT THE ENDS OF ALL EXPOSED STORM SEWER PIPES.
9. FINALIZE PAVEMENT SUBGRADE PREPARATION.
10. CONSTRUCT ALL CURB AND GUTTER, GUTTER INLETS, AREA INLETS, AND STORM SEWER MANHOLES, AS SHOWN ON THE PLANS. INLET PROTECTION BARRIERS MAY BE REMOVED TEMPORARILY FOR THIS CONSTRUCTION. PLACE REQUIRED RIPRAP AT LOCATIONS SHOWN ON THE PLANS.
11. REMOVE DROP INLET PROTECTION AROUND INLETS AND MANHOLES NO MORE THAN 48 HOURS PRIOR TO PLACING STABILIZED BASE COURSE.
12. INSTALL BASE MATERIAL AS REQUIRED FOR PAVEMENT.
13. CARRY OUT FINAL GRADING AND SEEDING AND PLANTING
14. REMOVE SILT FENCING / STRAW BARRIERS ONLY AFTER ALL PAVING IS COMPLETE AND EXPOSED SURFACES ARE STABILIZED.
15. REMOVE TEMPORARY CONSTRUCTION EXITS ONLY PRIOR TO PAVEMENT CONSTRUCTION IN THESE AREAS (THESE AREAS ARE TO BE PAVED LAST).
16. UPSTREAM CONSTRUCTION SHALL BE COMPLETED AND STABILIZED PRIOR TO CONNECTION TO DOWNSTREAM INFILTRATION FACILITIES.
17. A DENSE AND VIGOROUS COVER SHALL BE ESTABLISHED OVER THE CONTRIBUTING PERVIOUS DRAINAGE AREAS BEFORE RUNOFF CAN BE ACCEPTED INTO INFILTRATION FACILITIES.

SOIL RESTORATION:

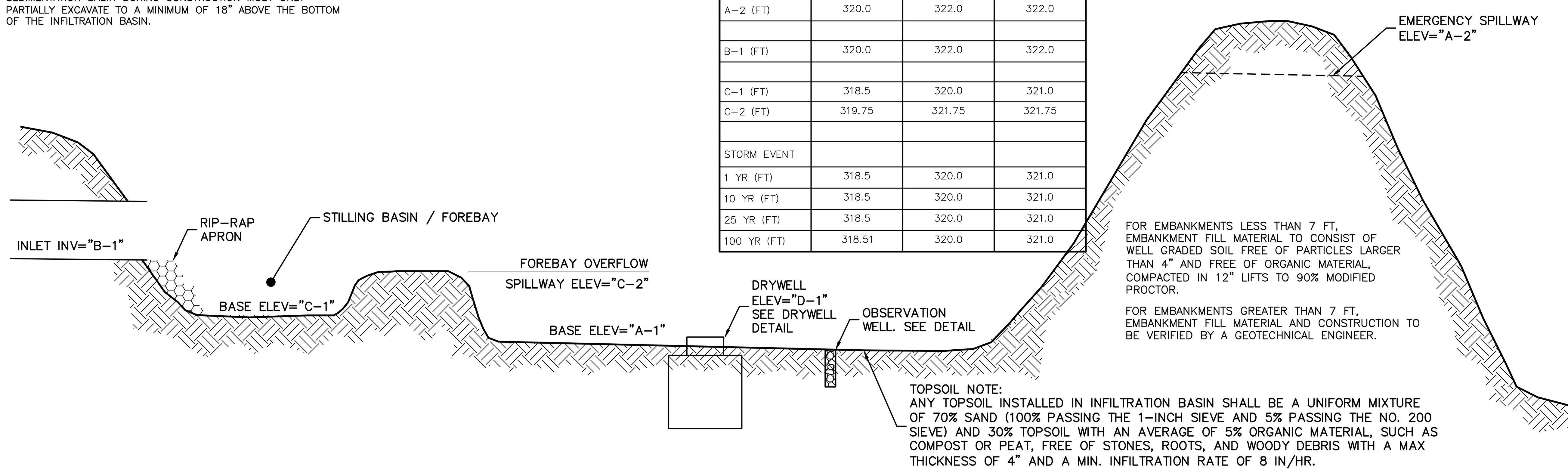
AS PER CHAPTER 5 OF THE NEW YORK STATE STORMWATER MANAGEMENT DESIGN MANUAL, SOIL RESTORATION IS REQUIRED ON THIS SITE IN ALL NON-IMPERVIOUS AREAS ONCE FINAL SUBGRADE ELEVATION IS ACHIEVED. IN AREAS OF CUT OR FILL THE SOILS SHALL BE AERATED AND 6 INCHES OF TOPSOIL SHALL BE APPLIED. IN AREAS OF HEAVY CONSTRUCTION TRAFFIC (ESPECIALLY IN AREAS 5 TO 25 FEET FROM BUILDING, BUT NOT WITHIN 5 FEET OF FOUNDATION WALLS) THE FOLLOWING RESTORATION MUST BE APPLIED:

1. APPLY 3 INCHES OF COMPOST OVER SUBSOIL.
2. TILL COMPOST INTO SUBSOIL TO A DEPTH OF AT LEAST 12 INCHES USING A CAT-MOUNTED RIPPER, TRACTOR-MOUNTED DISC, OR TILLER, MIXING, AND CIRCULATING AIR AND COMPOST INTO SOIL.
3. ROCK-PICK UNTIL UPLIFTED STONE/ROCK MATERIALS OF 4 INCHES AND LARGER SIZE ARE CLEANED OFF THE SITE.
4. APPLY TOPSOIL TO A DEPTH OF 6 INCHES
5. VEGETATE AS REQUIRED BY APPROVED PLAN.

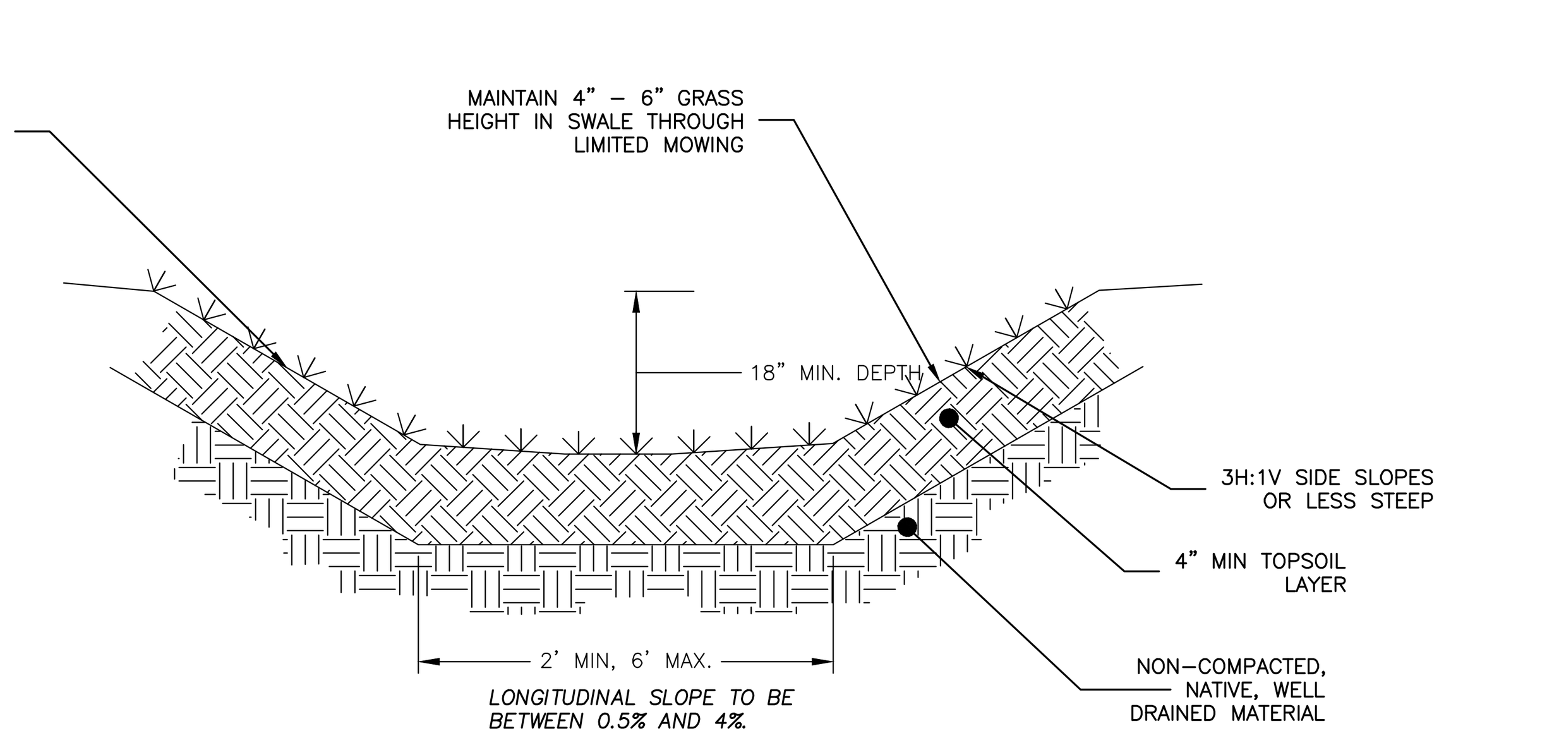
NOTES:

1. ALL INFILTRATION BASIN AREAS TO BE PROTECTED FROM HEAVY CONSTRUCTION EQUIPMENT TRAFFIC AND NOT CONNECTED TO THE STORM SYSTEM UNTIL THE COMPLETION OF CONSTRUCTION AND THE FINAL STABILIZATION OF ALL UPSTREAM AREAS.
2. ANY INFILTRATION BASIN TO BE UTILIZED AS A TEMPORARY SEDIMENTATION BASIN DURING CONSTRUCTION MUST ONLY PARTIALLY EXCAVATE TO A MINIMUM OF 18" ABOVE THE BOTTOM OF THE INFILTRATION BASIN.

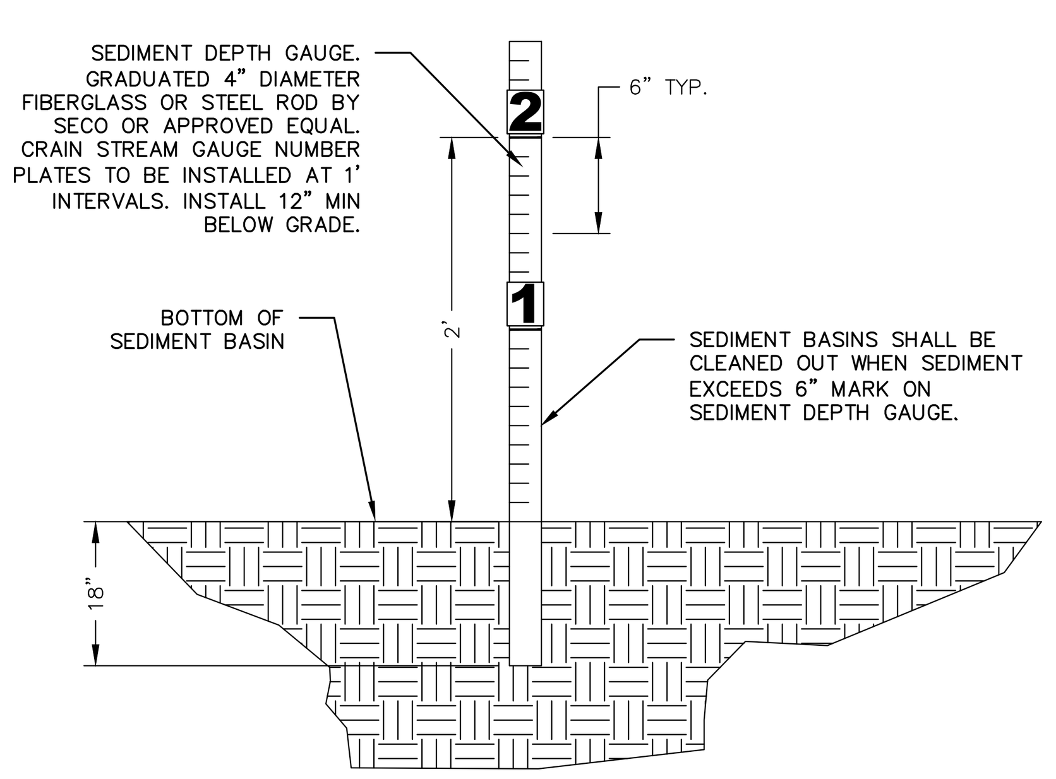
INFILTRATION BASIN ELEVATIONS			
	SMA #1	SMA #2	SMA #3
A-1 (FT)	318.5	320.0	321.0
A-2 (FT)	320.0	322.0	322.0
B-1 (FT)	320.0	322.0	322.0
C-1 (FT)	318.5	320.0	321.0
C-2 (FT)	319.75	321.75	321.75
STORM EVENT			
1 YR (FT)	318.5	320.0	321.0
10 YR (FT)	318.5	320.0	321.0
25 YR (FT)	318.5	320.0	321.0
100 YR (FT)	318.51	320.0	321.0



1/8 INFILTRATION BASIN
NOT TO SCALE



2/8 VEGETATED SWALE
NOT TO SCALE



3/8 SEDIMENT DEPTH GAUGE
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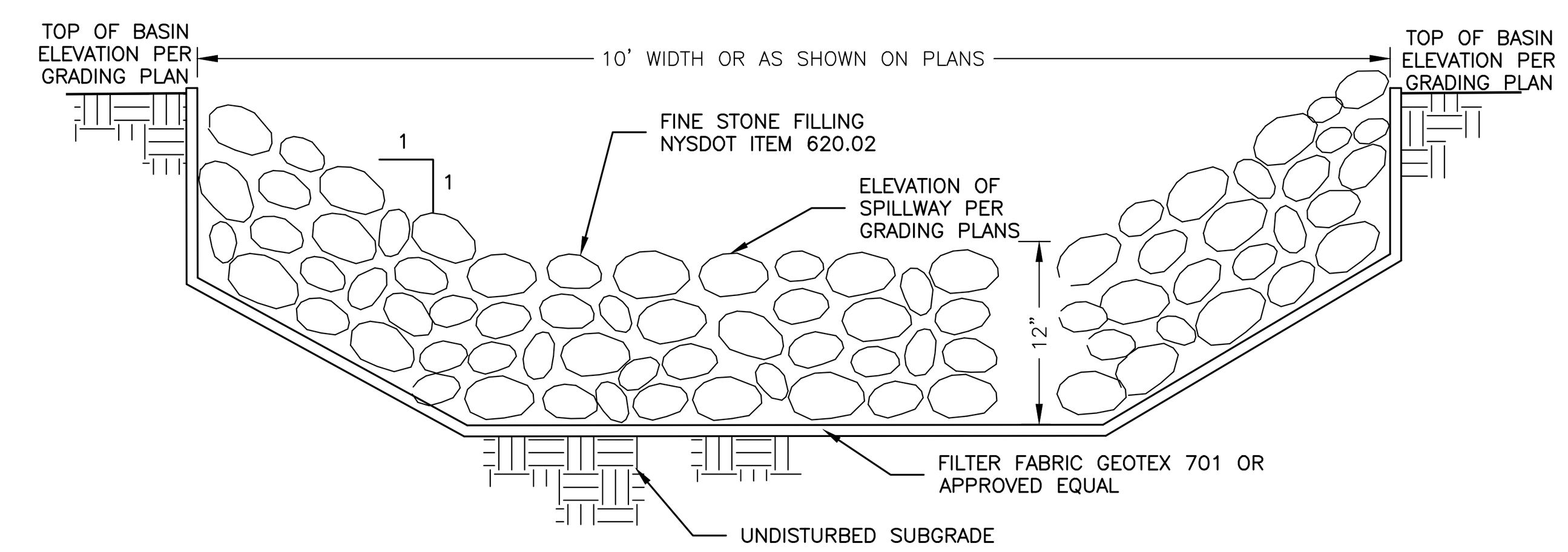
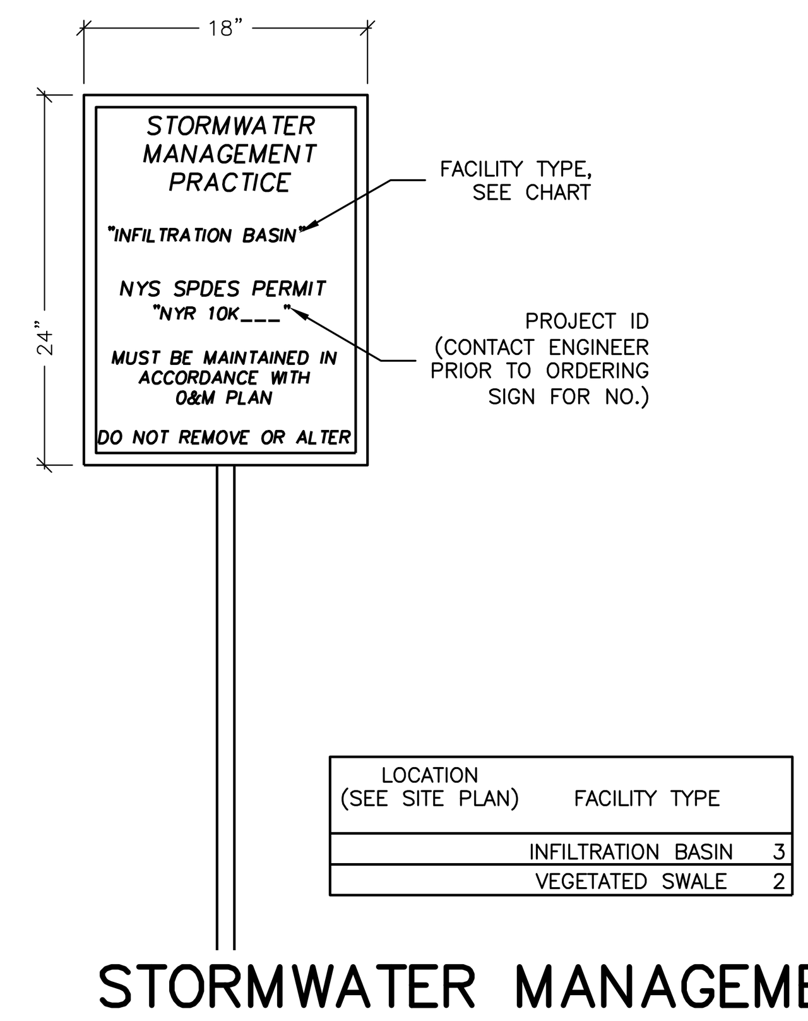
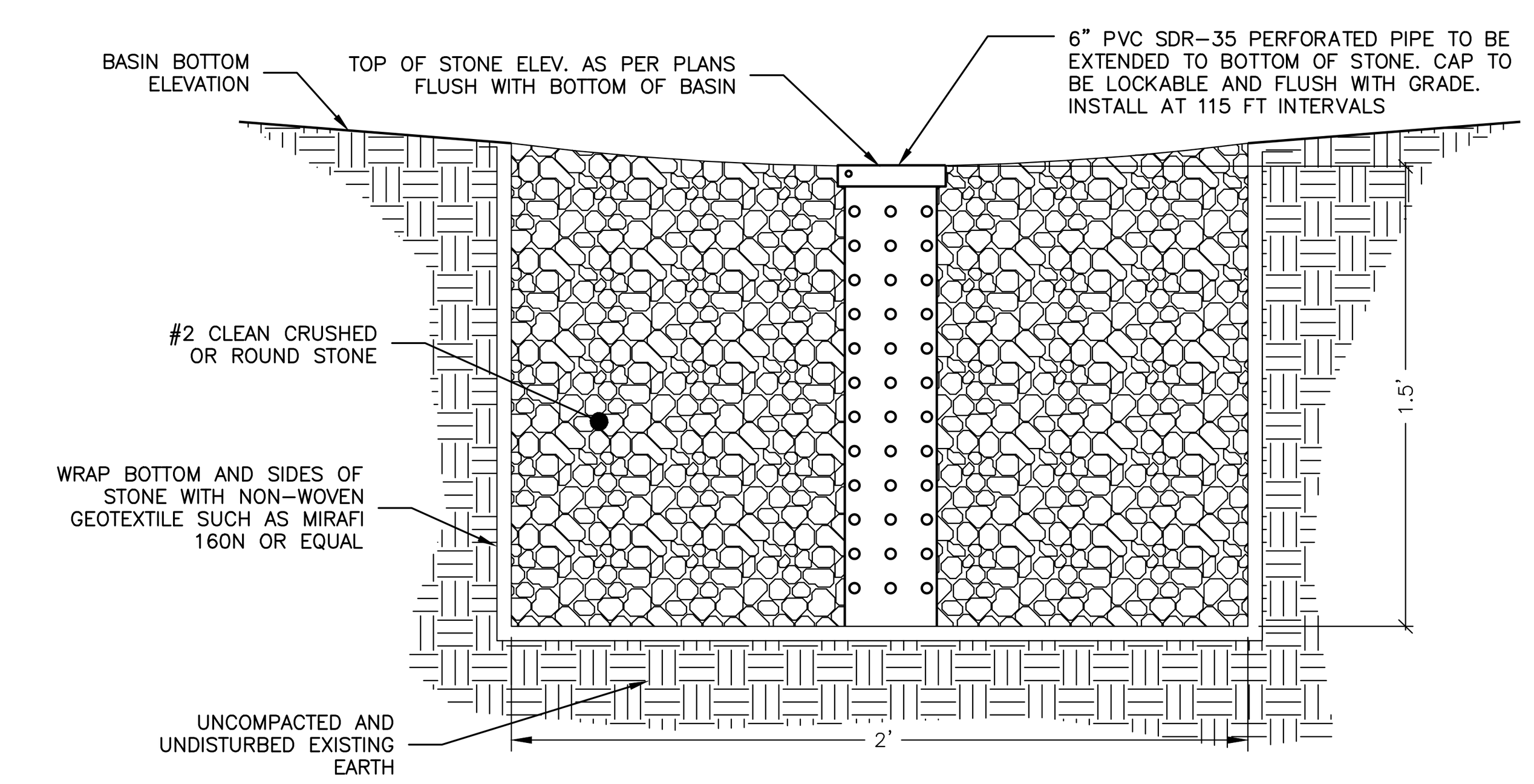


4/8 EMERGENCY OVERFLOW SPILLWAY
NOT TO SCALE

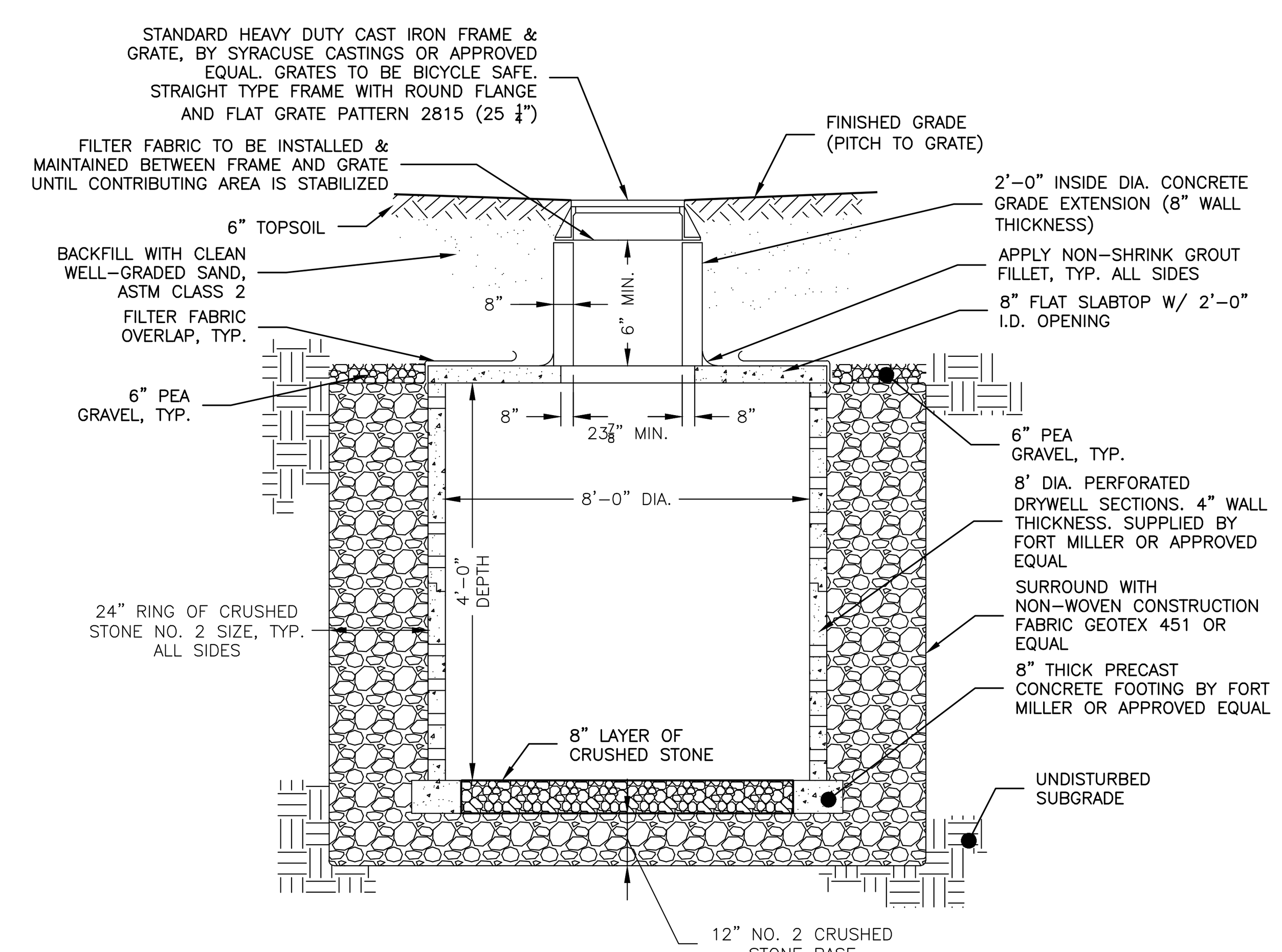


LOCATION (SEE SITE PLAN)	FACILITY TYPE
INFILTRATION BASIN	3
VEGETATED SWALE	2

5/8 STORMWATER MANAGEMENT FACILITY NOTIFICATION SIGN
NOT TO SCALE



7/8 OBSERVATION WELL
NOT TO SCALE



6/8 DRY WELL
NOT TO SCALE

ENVIRONMENTAL DESIGN PARTNERSHIP, LLP.
900 Route 146 Clifton Park, New York 12065
(518) 371-7621
edpllp.com

PROPOSED APARTMENTS FOR
112 HARRISON AVE APT.
SCHERMERHORN REAL ESTATE HOLDINGS LP
LOCATED AT 112 HARRISON AVENUE
TOWN OF MOREAU
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TAX MAP ID: 37.-1-18
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DRAWN BY	ANR
CHECK BY	JCD
EDP PROJECT NUMBER	12842

REVISION	DATE	BY

SCALE: AS NOTED

SHEET TITLE: SITE DETAILS

GENERAL NOTES:

THE ENVIRONMENTAL DESIGN PARTNERSHIP IS NOT RESPONSIBLE FOR ANY CONSTRUCTION WORK PERFORMED PRIOR TO FINAL APPROVAL OF ALL PLANS AND SECURING OF ALL PERMITS AND FILING OF ALL MAPS.

CONTRACTOR TO ARRANGE A PRECONSTRUCTION CONFERENCE WITH THE ENVIRONMENTAL DESIGN PARTNERSHIP AND MUNICIPALITY PRIOR TO CONSTRUCTION.

FIELD ADJUSTMENTS MUST BE APPROVED BY THE ENVIRONMENTAL DESIGN PARTNERSHIP AND THE MUNICIPALITY'S ENGINEER PRIOR TO CONSTRUCTION.

CONTRACTOR IS TO VERIFY THAT ALL NECESSARY WORK PERMITS AND EASEMENTS ARE IN PLACE PRIOR TO COMMENCEMENT OF WORK.

THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS AND TAKE ALL SPECIAL TEMPORARY AND PERMANENT PRECAUTIONS NECESSARY TO ENSURE A STABLE AND SECURE JOB.

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY TOWN, COUNTY OR STATE HIGHWAY CUT PERMITS.

THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS AND EASEMENTS PRIOR TO CONSTRUCTION AND BECOME FAMILIAR WITH THE CONDITIONS OF EACH PERMIT.

THE CONTRACTOR SHALL PROTECT AND SUSTAIN IN NORMAL SERVICE ALL EXISTING UTILITIES, STRUCTURES, EQUIPMENT, ROADWAYS, AND DRIVEWAYS.

THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES AND RIGHT-OF-WAY PROPERTY LINES PRIOR TO CONSTRUCTION.

THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES SUCH AS GAS, POWER, TELEPHONE, CABLE TV, WATER, SEWER, ETC. PRIOR TO COMMENCEMENT OF CONSTRUCTION.

AS PER NYS INDUSTRIAL CODE 53: CONTRACTOR TO CALL DIG SAFELY NEW YORK, INC. AT 1-800-962-7962 TO LOCATE BURIED CABLES OR OTHER UNDERGROUND UTILITIES NO LESS THAN TWO OR MORE THAN TEN WORKING DAYS PRIOR TO DIGGING, DRILLING, EXCAVATING, DRIVING POSTS, ETC.

CONTRACTOR MUST VERIFY THE ACCEPTABILITY OF ALL CONSTRUCTION MATERIALS WITH MUNICIPALITY'S ENGINEER PRIOR TO ORDERING.

INSTALLATION AND MATERIAL SPECIFICATIONS FOR STORM SEWER, SANITARY SEWER, WATER SERVICE CONNECTIONS SHALL CONFORM TO THE MUNICIPALITY'S STANDARD DETAILS AND REQUIREMENTS. INSTALLATION PROCEDURES AND MATERIALS MUST BE VERIFIED WITH MUNICIPALITY PRIOR TO CONSTRUCTION.

ANY EXISTING STORM SEWERS AND UNDERGROUND UTILITIES ARE SHOWN IN THEIR RELATIVE POSITION AND FOR INFORMATION ONLY. THE CONTRACTOR SHALL HAVE THEIR EXACT LOCATION CHECKED AT THE SITE BEFORE CONSTRUCTION BEGINS.

CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING PIPE INVERT ELEVATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DISCREPANCIES WHICH RESULT MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, GRADES, PIPE INVERTS AND ELEVATIONS AND REVIEW WITH CONSULTANT BEFORE CONSTRUCTION.

ALL EXCAVATION TO MEET OSHA AND NYS DOT SAFETY REGULATIONS AND STANDARDS.

THE CONTRACTOR SHALL FILL IN, AND RE-EXCAVATE, AS NECESSARY TO RESUME WORK, ANY EXCAVATIONS OR TRENCHES AT LOCATIONS AND AS OFTEN AS MAY BE REQUIRED TO ENSURE PROTECTION OF THE WORK, ANY ADJACENT EXISTING FACILITIES, OR THE PUBLIC.

THE CONTRACTOR SHALL CLEAN UP THE JOB SITE DAILY BEFORE LEAVING THE JOBSITE. ALL RUBBISH MUST BE CLEANED UP AND CONSTRUCTION EQUIPMENT MUST BE PROPERLY TAKEN CARE OF AND STORED AT THE END OF THE DAY.

CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL AND SAFETY DURING CONSTRUCTION.

THE CONTRACTOR SHALL FURNISH ALL FLAGMEN AND SIGNS, DELINEATORS, BARRIERS, AND DEVICES NECESSARY FOR TRAFFIC CONTROL DURING ANY EARTH-MOVING OPERATION OR OTHER CONSTRUCTION ACTIVITY WHICH INVOLVES PUBLIC HIGHWAYS.

ALL TRAFFIC SIGNS, CONTROL DEVICES AND INFORMATIONAL ITEMS, IF DISTURBED DURING CONSTRUCTION WITHIN CONTRACT LIMIT LINES, SHALL BE RELOCATED AS PER APPROVAL OF MUNICIPALITY.

RESTORATION OF PAVEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL REPLACE AND RESTORE PAVEMENT WITH MATERIAL TO A CONDITION EQUAL TO OR BETTER THAN PRECONSTRUCTION CONDITIONS. ALL PAVEMENT AND RIGHT-OF-WAY RESTORATION WORK TO BE DONE TO THE SATISFACTION OF THE STATE, COUNTY OR LOCAL MUNICIPAL HIGHWAY DEPARTMENT.

CONTRACTOR SHALL RESTORE ALL LAWNS, DRIVEWAYS, WALKS, WALLS, CURBS, FENCES, ETC. TO A CONDITIONS AT LEAST AS GOOD AS THEY WERE BEFORE BEING DISTURBED.

BOX ALL TREES AND HOUSE ALL SHRUBS AND HEDGES BEFORE PLACING EARTH AGAINST OR NEAR THEM. SHRUBS AND HEDGES THAT MUST BE REMOVED DURING CONSTRUCTION SHALL BE HEALED OR REPLANTED IN AS GOOD A CONDITION AS THEY WERE BEFORE THEIR REMOVAL. ANY DAMAGED ITEMS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

POSTS, MAILBOXES, ETC. SHALL BE PROTECTED, OR REMOVED AND REPLACED EXACTLY AS THEY WERE BEFORE BEING DISTURBED. DAMAGED ITEMS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

IT MAY BE NECESSARY TO TIE OR HOLD BACK UTILITY POLES DURING CONSTRUCTION. THIS SHOULD BE ACCOMPLISHED IN COOPERATION WITH UTILITY COMPANIES.

NO WORK, STORAGE OR TRESPASS SHALL BE PERMITTED BEYOND THE BOUNDARIES OF ANY EASEMENTS OR R.O.W. AS SHOWN.

CONTRACTOR TO COMPLY WITH ALL OSHA AND OTHER STATE AND LOCAL SAFETY REQUIREMENTS DURING CONSTRUCTION (PROPER SHORING, ETC.).

SIDE SLOPES GREATER THAN 1:3 WILL REQUIRE GUIDE RAILS (1-FOOT VERTICAL, 3-FOOT HORIZONTAL).

ALL SITE WORK SHALL BE SMOOTHLY AND EVENLY BLENDED INTO EXISTING CONDITIONS. WHERE ACCESS OR WORK OUTSIDE OF PROPERTY BOUNDARY IS NECESSARY, THE PERMISSION OF ADJOINING PROPERTY OWNER MUST FIRST BE OBTAINED.

SITE SURVEYOR TO VERIFY ELEVATIONS OF EXISTING ROAD CENTERLINE AND SHOULDER PRIOR TO COMMENCING WORK. CONTRACTOR IS TO CONFIRM THIS WITH SITE SURVEYOR.

WHERE APPROPRIATE, SITE LAYOUT AND GRADING WORK SHALL BE COMPLETED BY A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR. LANDSCAPE ARCHITECT SHALL APPROVE ALL LAYOUT WORK PRIOR TO CONSTRUCTION.

CONTRACTOR TO NOTIFY ENGINEER AFTER ROUGH GRADING IS COMPLETED. FINISH GRADES TO BE ADJUSTED IN THE FIELD AFTER INITIAL GRADING IS COMPLETED. ALL CHANGES IN PROPOSED GRADES TO BE APPROVED BY OWNER AND ENGINEER.

ALL AREAS OF THE SITE WHICH ARE DISTURBED AND NOT PAVED SHALL BE TOPSOILED AND SEEDED.

ALL PHYSICAL FEATURES INCLUDING SIDEWALKS, CURBING, DECKS, LAMPS, STAIRS, ETC. WITHIN FIVE FEET OF EXTERIOR BUILDING WALLS AND CANOPY OVERHANGS ARE TO BE CONSTRUCTED PER ARCHITECTURAL PLANS. IT IS NOT THE INTENT OF THESE DOCUMENTS TO ADDRESS SUCH DETAILS, WHICH ARE SHOWN ONLY FOR THE PURPOSE OF CONTINUITY BETWEEN THE SITE PLAN AND THE ARCHITECTURAL PLANS.

PROVISIONS FOR STORMWATER COLLECTION AND DRAINAGE PERTAINING TO THE ROOF AND TO PHYSICAL FEATURES WITHIN FIVE FEET OF THE EXTERIOR BUILDING WALLS AND CANOPY OVERHANGS ARE THE RESPONSIBILITY OF THE ARCHITECT.

ALL VERTICAL GRADE CHANGES GREATER THAN 30 INCHES SHALL BE PROVIDED WITH SAFETY BARRIERS AS PER NYS BUILDING CODE (FENCES, RAILINGS, ETC. PER OWNER).

PRELIMINARY PAVEMENT AND SIDEWALK DESIGN SPECIFICATIONS ASSUME EXISTING SUBGRADE CONSISTS OF CLEAN, GRANULAR MATERIAL (SAND & GRAVEL) AND THAT THERE IS NO WATER TABLE INTERFERENCE. PRIOR TO CONSTRUCTION, THE PROJECT OWNER SHALL HAVE THE EXISTING SUBGRADE CONDITIONS EVALUATED BY A GEOTECHNICAL ENGINEER, WHO SHALL DETERMINE FINAL PAVEMENT AND SIDEWALK DESIGN SPECIFICATIONS. THE OWNER ASSUMES ALL RESPONSIBILITY FOR PAVEMENTS AND SIDEWALKS CONSTRUCTED WITHOUT A FINAL DESIGN, SHOULD HE CHOOSE NOT TO HIRE A GEOTECHNICAL ENGINEER.

ROADWAYS AND UNDERGROUND UTILITY FILL AREAS SHALL BE CONTROLLED FILLS PREPARED IN GENERAL ACCORDANCE WITH NYSDOT STANDARD SPECIFICATIONS 203, EXCAVATION AND EMBANKMENT.

FILL AREAS SHALL BE STRIPPED OF SOD, TOPSOIL AND UNSUITABLE MATERIAL AND BE MECHANICALLY COMPACTED TO THE SATISFACTION OF THE ENGINEER IN ACCORDANCE WITH NYSDOT 203-3.03.A.

FILLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH NYSDOT 230-3.03.B, EMBANKMENTS. COMPACTION AND LIFT THICKNESS SHALL BE IN ACCORDANCE WITH NYSDOT 230-3.03.C. UNDERWATER AREAS SHALL BE FILLED WITH SELECT GRANULAR FILL.

CONTROLLED FILL SHALL BE WITH SELECT GRANULAR MATERIAL WITH GRADATION: 100% PASSING 4" SIEVE, 0-70% PASSING #40 AND 0-12% PASSING #200 AND MEET NYSDOT STD SPEC 733-11. FILLS SHALL BE PLACED IN LIFTS NOT TO EXCEED 12" LOOSE THICKNESS AND SHALL BE MECHANICALLY COMPACTED TO 95% MINIMUM OF THE MAXIMUM ASTM SPECIFICATION D1557 DENSITY (MODIFIED PROCTOR). ALL CONTROLLED FILL SHALL BE FREE OF ORGANIC, CLODS AND/OR FROZEN MATERIALS

EMBANKMENT SUBGRADE AREA (TWO FEET BELOW SUBGRADE ELEVATION) SHALL BE CONSTRUCTED IN ACCORDANCE WITH NYSDOT 230-2.02.B., SELECT BORROW AND SELECT FILL, COMPACTED PER 203-3.03.C.

ALL AREAS OF THE SUBGRADE SURFACE WITHIN THE ROADWAY OR OTHER PAVEMENT AREA LIMITS SHALL BE PROOF-ROLLED, WITH UNSTABLE AREAS CORRECTED TO THE SATISFACTION OF THE ENGINEER, PRIOR TO PLACEMENT OF SUBBASE MATERIALS, BOTH EMBANKMENT AND CUT AREAS, IN ACCORDANCE WITH NYSDOT 203-3.03.D & 203-3.02.C.

FILL SPECIFICATIONS ARE CONSIDERED MINIMAL AND ARE SUBJECT TO CHANGE UPON DISCOVERY OF UNFAVORABLE SITE SOIL CONDITIONS AND/OR BY A GEOTECHNICAL ENGINEER RETAINED BY THE OWNER/DEVELOPER.

SPECIFICATIONS FOR STREET/SITE LIGHTING ARE PER TOWN REQUIREMENTS/QUALIFIED PHOTOMETRIC ENGINEER RETAINED BY OWNER.

ALL GRAVITY SANITARY SEWER PIPE AND FITTINGS SHALL BE PVC SDR-26 HEAVY WALL SEWER PER ASTM D3034, 115 PSI MINIMUM PIPE STIFFNESS FOR BURIAL DEPTHS UP TO 20 FEET.

PRIOR TO COMMENCEMENT OF STORM AND/OR SANITARY SEWER CONSTRUCTION, CONTRACTOR IS TO VERIFY BOTH HORIZONTAL AND VERTICAL POSITION OF EXISTING SEWER AT THE CONNECTION POINT. CONTRACTOR IS TO CONSTRUCT GRAVITY LINES PROGRESSIVELY FROM DOWNSTREAM TO UPSTREAM. ANY EXCEPTIONS TO THIS MUST BE APPROVED BY THE ENGINEER. ANY GRADE DISCREPANCIES MUST BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY.

DEFLECTION TESTING SHALL BE PERFORMED ON ALL FLEXIBLE GRAVITY SEWER PIPE IN ACCORDANCE WITH 10 STATE STANDARDS. TESTS SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS. ANY PIPE WHICH HAS A DEFLECTION GREATER THAN 5% SHALL BE EXCAVATED AND REPLACED AT NO ADDITIONAL COST TO THE OWNER.

ALL GRAVITY SEWERS SHALL HAVE CONTINUOUS STRAIGHT HORIZONTAL & VERTICAL ALIGNMENT (LINE & GRADE) BETWEEN MANHOLES PER NYSDEC REQUIREMENTS AND TEN STATES STANDARDS. CONSTRUCTION OF GRAVITY SEWERS SHALL BE PERFORMED USING A PIPE LASER, WITH ADEQUATE BLOWER VENTILATION, TO ENSURE STRAIGHT ALIGNMENT. ANY EXCEPTIONS THIS MUST BE APPROVED BY THE ENGINEER. ALIGNMENT SHALL BE VERIFIED BY LAMPING DURING THE CCTV INSPECTION AND AFTER WORK HAS BEEN COMPLETELY BACKFILLED AND COMPACTED.

SLOPE OF SANITARY SEWER THROUGH MANHOLE STRUCTURE IS DETERMINED BY THE INCOMING PIPE. IN NO CASE, SHALL THE SLOPE THROUGH THE MANHOLE STRUCTURES BE LESS THAN 1%.

THE CONTRACTOR IS RESPONSIBLE TO FURNISH AND INSTALL SANITARY MANHOLES SUCH THAT THEY DO NOT INFILTRATE WATER AS DETERMINED BOTH BY VACUUM TESTING IN ACCORDANCE WITH ASTM C1244-05 PRIOR TO BACKFILLING AND VISUALLY THEREAFTER. ALL PIPES SHALL BE PLUGGED, BRACED, AND/OR BLOCKED TO PREVENT IMPLOSION DURING VACUUM TESTING. THE CONTRACTOR SHALL MAKE ALL MATERIAL REPLACEMENTS AND/OR REPAIRS TO ACCOMPLISH THIS.

LOW-PRESSURE AIR EXFILTRATION TESTING SHALL BE PERFORMED ON ALL GRAVITY SANITARY SEWER PRIOR TO FINAL APPROVAL SUCH AS THE TIME-PRESSURE DROP METHOD PER IN ASTM F1417-11A (2015), UNI-BELL PVC PIPE ASSOCIATION, STANDARD UNI-B-6, AND SUMMARIZED IN, UNI- BELL HANDBOOK OF PVC PIPE, SECOND PRINTING NOVEMBER 2005, PAGES 457, 458 AND, SPECIFICATION TIMES FOR 0.5 PSIG PRESSURE DROP FOR SIZES AND LENGTHS OF PIPE IN TABLE 10.12, PAGE 460. ALL SEWER PIPE ENDS SHALL BE BRACED AND/OR BLOCKED INSIDE EACH MANHOLE AND AT EACH LATERAL END TO PREVENT DISLODGEMENT OF THE PIPE.

PRESSURE SEWER MAIN PIPE SHALL BE: PR 200 PSI MIN. WHITE OR GREEN COLORED (NOT BLUE) PVC SDR-21*, PE 4710 DIPS DR-11 (PR 200 PSI) GREEN STRIPE. LOW-PRESSURE SEWER SERVICE PIPE SHALL BE: PR 200 PSI MIN. GASKETED (1-1/2" MIN.) PVC SDR-21*, PE 4710 GREEN-SHELL OR GREEN STRIPE IPS (ASTM D3035) DR-11 OR CTS SODR-9 (ASTM D2737) UPSIZED ½-INCH OR AS NOTED ON THE PLANS. *EXCEPTION: PVC IS NOT ALLOWED TO BE USED ON SARATOGA COUNTY SEWER DISTRICT NO. 1 PERMITTED PROJECTS.

ALL PRESSURE SANITARY SEWER PIPE SHALL BE BURIED WITH TRACER WIRE SECURED TO THE PIPE WITH GORRILLA TAPE. TRACER WIRE SHALL BE 12 AWG, SINGLE CONDUCTOR, HIGH STRENGTH, FLEXIBLE, STRANDED STAINLESS STEEL, WITH HMWPE GREEN-COLORED INSULATION SUCH AS #10 AS MANUFACTURED BY KRIS-TECH WIRE CO. MAIN BRANCHES AND SERVICE CONNECTIONS SHALL BE MADE WITHOUT CUTTING THE MAIN WIRE, USING 3-WAY DIRECT-BURY LUGS WITH SILICONE GEL ENCAPSULATOR. SPLICES AT ROLL ENDS SHALL BE MECHANICALLY AND ELECTRICALLY FASTENED BY TYING WIRE IN A KNOT AND CONNECTING EXPOSED CONDUCTORS IN SILICONE GEL TWIST ENCAPSULATORS. DIRECT-BURY TRACER WIRE CONNECTORS SUCH AS DRYCONN CONNECTORS BY COPPERHEAD INDUSTRIES, LLC. TRACER WIRE SHALL BE BROUGHT UP 12" MIN. ABOVE GRADE ON THE OUTSIDE OF ALL GATE & CURB BOXES.

ALL SEWER PIPE SHALL HAVE 6-INCH WIDE, GREEN-COLORED PLASTIC SEWER UTILITY I.D. MARKING TAPE BURIED ON TOP OF THE COMPACTED INITIAL PIPE BACKFILL, 12" MIN. ABOVE THE PIPE.

SANITARY PRESSURE SEWERS, BOTH FORCE MAINS AND SERVICES, SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH WATER MAIN LEAKAGE TESTING STANDARDS, AT MINIMUM 120 PSIG AS MEASURED AT THE LOWEST POINT OF THE LINE(S) BEING TESTED, 150 PSIG WHERE ANY POTABLE WELL IS, OR IS LIKELY TO BE, WITHIN 50 FEET OF FORCE MAIN. AWWA: C600-17, FOR DUCTILE IRON PIPE, MANUAL M23 FOR PVC, AND MANUAL M55 FOR PE.

NEW GRAVITY SANITARY SEWER WORKS SHALL BE CLEANED WITH WATER JET AND VACUUM FLUSHING/COLLECTION EQUIPMENT PRIOR TO CCTV INSPECTION AND REPEATED AS NECESSARY UNTIL CLEAN, WITH ALL SOLIDS REMOVED. ALL DEBRIS SHALL BE VACUUMED OUT DURING FLUSHING OPERATIONS AND DISPOSED OF OFF SITE.

NEW GRAVITY SANITARY SEWER WORKS SHALL BE INSPECTED FOR DEFECTS BY CLOSED-CIRCUIT TELEVISION (CCTV) EQUIPMENT. REPAIRED WORKS SHALL BE RE-CLEANED AND RE-INSPECTED BY CCTV. THREE SETS OF RECORD DIGITAL VIDEO FILES AND WRITTEN INSPECTION REPORTS SHALL BE FURNISHED TO THE ENGINEER.

ALL DISCERNABLE GRAVITY SEWER DIPS (DEVIATIONS FROM CONTINUOUS POSITIVE VERTICAL ALIGNMENT) IN EXCESS OF 1/4"ESTIMATED OR ACTUAL DEPTH AND/OR DIPS GREATER THAN 3-LF IN LENGTH SHALL BE CORRECTED AT NO ADDITIONAL COST TO THE OWNER.

WATER AND SEWER SEPARATION REQUIREMENTS:
MINIMUM 18 INCHES VERTICAL SEPARATION IS REQUIRED BETWEEN WATER MAINS AND ANY EXISTING OR PROPOSED SANITARY AND STORM SEWER AT ALL CROSSINGS, MEASURED OUTSIDE TO OUTSIDE OF PIPES, WITH JOINTS EQUIDISTANT FROM CROSSING POINT, PER NY STATE HEALTH DEPARTMENT REQUIREMENTS. PARALLEL LINES MUST BE SEPARATED A MIN. OF 10 FEET.

WHERE MINIMUM SEPARATIONS CANNOT BE MET, WITH CASE-BY-CASE-APPROVAL FROM NYS DOH:
- NEW SEWERS SHALL BE CONSTRUCTED OF MIN. PR 150 PSI AWWA WATER GRADE MATERIALS AND SHALL BE PRESSURE TESTED TO ENSURE WATER TIGHTNESS.
- LESS THAN 10 FT. SEPARATION ONLY IF WATER MAIN IS LAID IN A SEPARATION TRENCH OR ON AN EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18" ABOVE THE TOP OF THE GRAVITY SEWER.
- WHERE FORCE AND GRAVITY SEWERS PRE-EXIST: THE WATER MAIN SHALL BE INSTALLED WITHIN A PROTECTIVE CASING PIPE, CONSTRUCTED OF MIN. PR 150 PSI AWWA WATER GRADE MATERIALS, AND EXTEND 10 FT. MIN. ON BOTH SIDE OF THE SEWER BEING CROSSED OR, WHERE PARALLEL, TO A POINT WHERE THE LINES ARE SEPARATED BY 10 FT.
- WHERE A WATER MAIN AND/OR WATER WELLS PRE-EXIST AND A FORCE MAIN IS BEING CONSTRUCTED: THE FORCE MAIN SHALL BE INSTALLED WITHIN A PROTECTIVE CASING PIPE, CONSTRUCTED OF MIN. PR 150 PSI AWWA WATER GRADE MATERIALS, AND EXTEND 10 FT. MIN. ON BOTH SIDES OF THE WATER MAIN BEING CROSSED; WHERE PARALLEL, TO A POINT WHERE THE LINES ARE SEPARATED BY 10 FT.; OR TO A POINT WHERE THE ENDS OF THE CASING PIPE ARE 150 FT. MIN. FROM ANY WATER WELL.

CONTRACTOR TO VERIFY THE ELEVATION OF THE EXISTING WATER MAIN, TO AVOID CONFLICTS, PRIOR TO CONSTRUCTING OTHER UTILITIES.

ALL NEW WATER MAIN WORKS ARE TO BE HYDROSTATICALLY TESTED AT 150 PSIG MIN. (AS MEASURED AT THE LOWEST POINT) IN ACCORDANCE WITH AWWA STANDARDS: C600-17 FOR DUCTILE IRON PIPE, MANUAL M23 FOR PVC, AND MANUAL M55 FOR PE. RESULTS TO BE SUBMITTED TO MUNICIPAL ENGINEER. MODIFICATIONS TO EXISTING WORKS SHALL BE VISUALLY TESTED FOR LEAKS UNDER NORMAL WORKING PRESSURE PRIOR TO BACKFILL.

ALL WATER MAIN WORKS SHALL BE DISINFECTED AND BACTERIOLOGICALLY TESTED IN ACCORDANCE WITH AWWA STANDARD C651-14 (SEE DISINFECTION PROCEDURE ON WATER DETAIL SHEET). RESULTS TO BE SUBMITTED TO THE MUNICIPAL ENGINEER.

POTABLE WATER MAIN PIPE TO BE:
- DUCTILE IRON PIPE, CLASS 52 OR 50;
- BLUE-COLORED PVC DR-18 AWWA C-900;
- WHITE OR BLUE-COLORED PVC OR PVCO SDR-21;
- PE 4710 IPS OR DIPS, DR-11 (PR 200 PSI) BLUESTRIPE AWWA C-906

POTABLE WATER SERVICE TUBING TO BE:
- TYPE K COPPER
- PE 4710 BLUE WATER SERVICE TUBING (CTS) ASTM D2737 SODR-9
- COMMERCIAL SERVICE ≥ 3" DIA.

ALL PLASTIC WATER MAIN AND WATER SERVICE TUBING SHALL BE BURIED WITH TRACER WIRE SECURED TO THE PIPE WITH GORILLA TAPE. BLUE-COLORED #10 BY KRIS-TECH WIRE CO. MAIN BRANCHES AND SERVICE CONNECTIONS SHALL BE MADE WITHOUT CUTTING THE MAIN WIRE, USING 3-WAY DIRECT-BURY LUGS WITH SILICONE GEL ENCAPSULATOR. SPLICES AT ROLL ENDS SHALL BE MECHANICALLY AND ELECTRICALLY FASTENED BY TYING WIRE IN A KNOT AND CONNECTING EXPOSED CONDUCTORS IN SILICONE GEL TWIST ENCAPSULATORS. DIRECT-BURY TRACER WIRE CONNECTORS SUCH AS DRYCONN CONNECTORS BY COPPERHEAD INDUSTRIES, LLC. TRACER WIRE SHALL BE BROUGHT UP 12" MIN. ABOVE GRADE ON THE OUTSIDE OF ALL HYDRANTS, GATE & CURB BOXES.

ALL WATER PIPE SHALL HAVE 6-INCH WIDE, BLUE-COLORED PLASTIC WATER UTILITY I.D. MARKING TAPE BURIED ON TOP OF THE COMPACTED INITIAL PIPE BACKFILL, 12" MIN. ABOVE THE PIPE.

THRUST BLOCKING TO COMPLY WITH THE MUNICIPAL STANDARDS. THRUST BLOCKS TO BE CAST-IN-PLACE CONCRETE MIN. 3,000 PSI (SEE DETAIL).

ALL STORM SEWER PIPE TO BE DUAL WALL HIGH-DENSITY POLYETHYLENE WITH SMOOTH INTERIOR AND ANNULAR CORRUGATED EXTERIOR. PIPE JOINTS ARE TO BE SILT-TIGHT WITH EITHER INTEGRAL BELL & SPIGOT JOINTS WITH RUBBER GASKETS MEETING ASTM F477, SILT-TIGHT PREMIUM BAND COUPLERS WITH RUBBER GASKETS OR STANDARD BAND COUPLERS WRAPPED WITH NON-WOVEN GEOTEXTILE FABRIC 4-FEET WIDE AND OVERLAPPED AT EACH END. WATERTIGHT JOINTS ARE REQUIRED WHERE PE PIPE IS SPECIFIED FOR SMA BASIN INLET PIPE AND FITTINGS.

CATCH BASIN GRATES ARE TO BE BICYCLE SAFE.

THE INFORMATION REPRESENTED WITHIN THESE DOCUMENTS DOES NOT IMPLY ANY CONTRACT WITH, OR OBLIGATION FOR, PERFORMING ANY OR ALL TOWN, COUNTY, OR STATE REQUIRED INSPECTIONS DURING THE COURSE OF CONSTRUCTION OR PURSUANT TO OBTAINING CERTIFICATE OF OCCUPANCY. SUCH INSPECTION SERVICES, IF PERFORMED BY THIS OFFICE, SHALL BE ESTABLISHED BY SEPARATE CONTRACT.

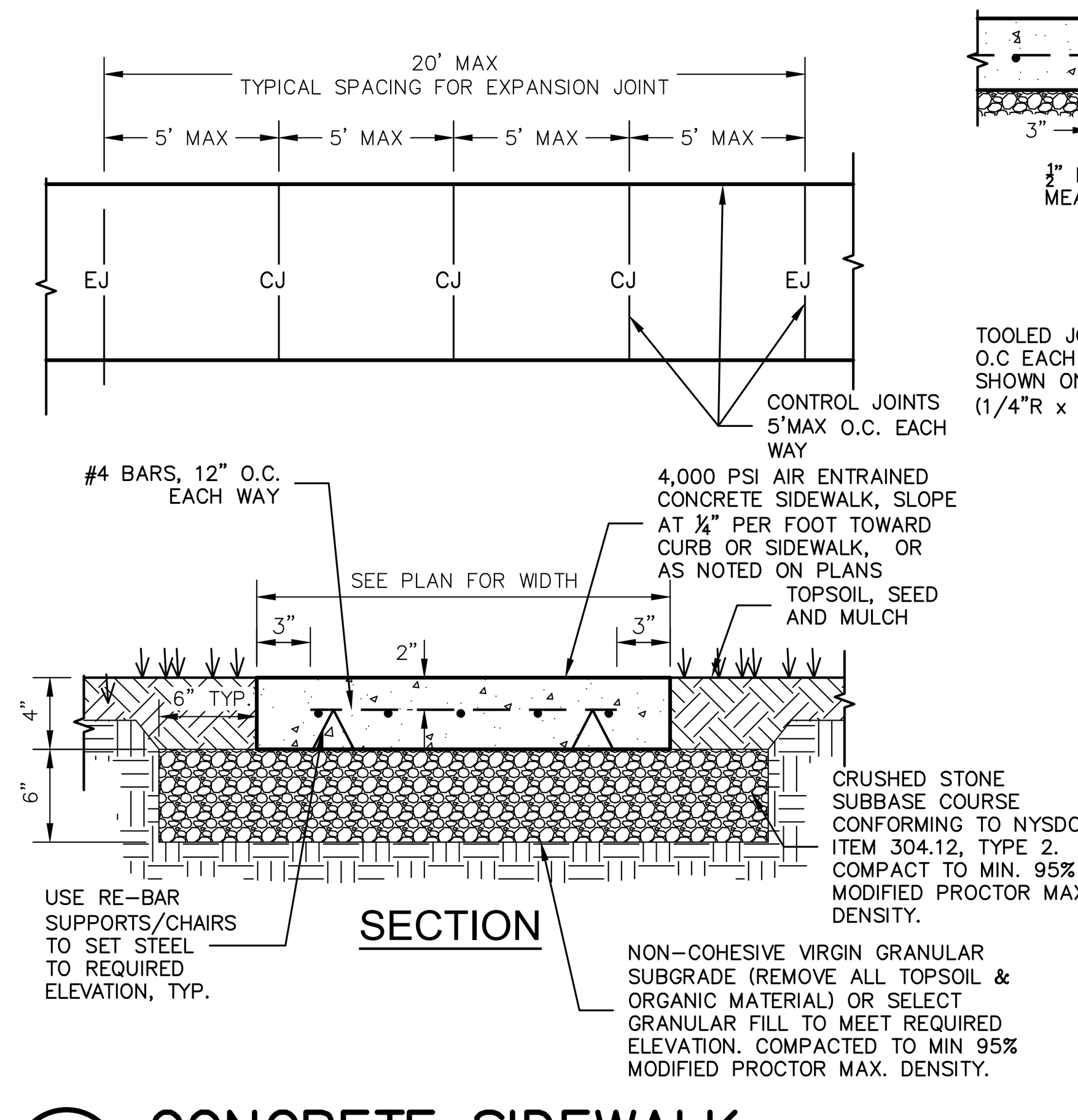
IN THE EVENT THAT THE CONSTRUCTION STAKEOUT AND INSPECTION OF THE WORK IS NOT PERFORMED BY THE ENVIRONMENTAL DESIGN PARTNERSHIP (EDP), EDP WILL NOT BE HELD RESPONSIBLE FOR ANY ERRORS, OMISSIONS, COSTS, EXPENSES OR LIABILITY OF WHATEVER KIND AND NATURE RESULTING FROM FIELD CHANGES AND/OR ERRORS WHICH EDP WOULD OTHERWISE HAVE HAD AN OPPORTUNITY TO CHECK AND CORRECT WERE THEY IN A POSITION TO CONTROL THE PROJECT THROUGH STAKEOUT AND INSPECTION.

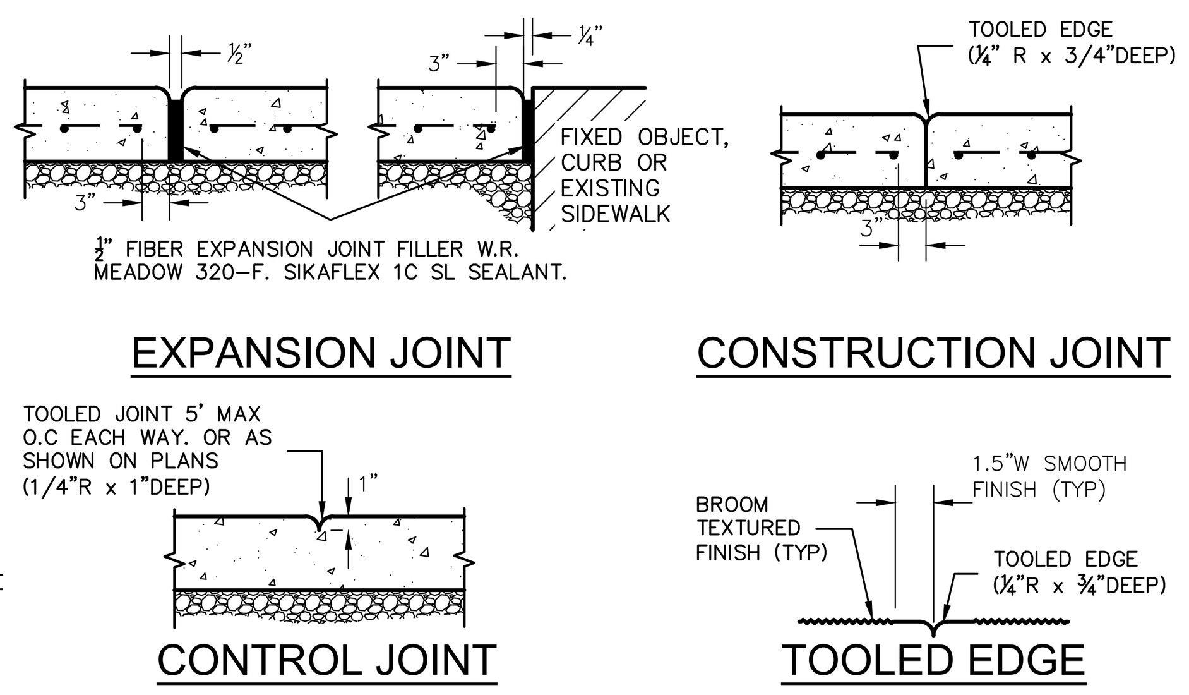
CLAIMS MADE AGAINST CONSULTANT FOR SURVEY STAKEOUT ERRORS WILL BE HONORED ONLY IF CONSULTANT IS NOTIFIED FOR VERIFICATION OF THE ERROR IMMEDIATELY UPON DISCOVERY AND BEFORE ANY CONTROL STAKES ARE DISTURBED. IF, AFTER VERIFICATION, IT IS DETERMINED THAT NO STAKEOUT ERROR OCCURRED, THE CLIENT SHALL REIMBURSE THE CONSULTANT FOR ADDITIONAL EXPENSES INCURRED FOR SUCH VERIFICATION.

ALL ERRORS, OMISSIONS AND DISCREPANCIES MUST BE BROUGHT TO THE ATTENTION OF THE ENVIRONMENTAL DESIGN PARTNERSHIP IMMEDIATELY UPON DISCOVERY, OTHERWISE, THE ENVIRONMENTAL DESIGN PARTNERSHIP WILL ACCEPT NO RESPONSIBILITY.

INSPECTION SERVICES BY THE ENVIRONMENTAL DESIGN PARTNERSHIP ARE NOT SUPERVISORY. ACCORDINGLY, THE ENVIRONMENTAL DESIGN PARTNERSHIP CAN NEITHER GUARANTEE THE PERFORMANCE OF THE CONSTRUCTION CONTRACTS BY CONTRACTORS NOR ASSUME RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO FURNISH AND PERFORM WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

CONTRACTOR SHALL OBTAIN A PERMIT FROM SARATOGA COUNTY SEWER DISTRICT NO. 1 PRIOR TO CONSTRUCTION OF ANY PROPOSED SANITARY SEWER LINES AND FOLLOW ALL PERMIT PROCEDURES DURING CONSTRUCTION.

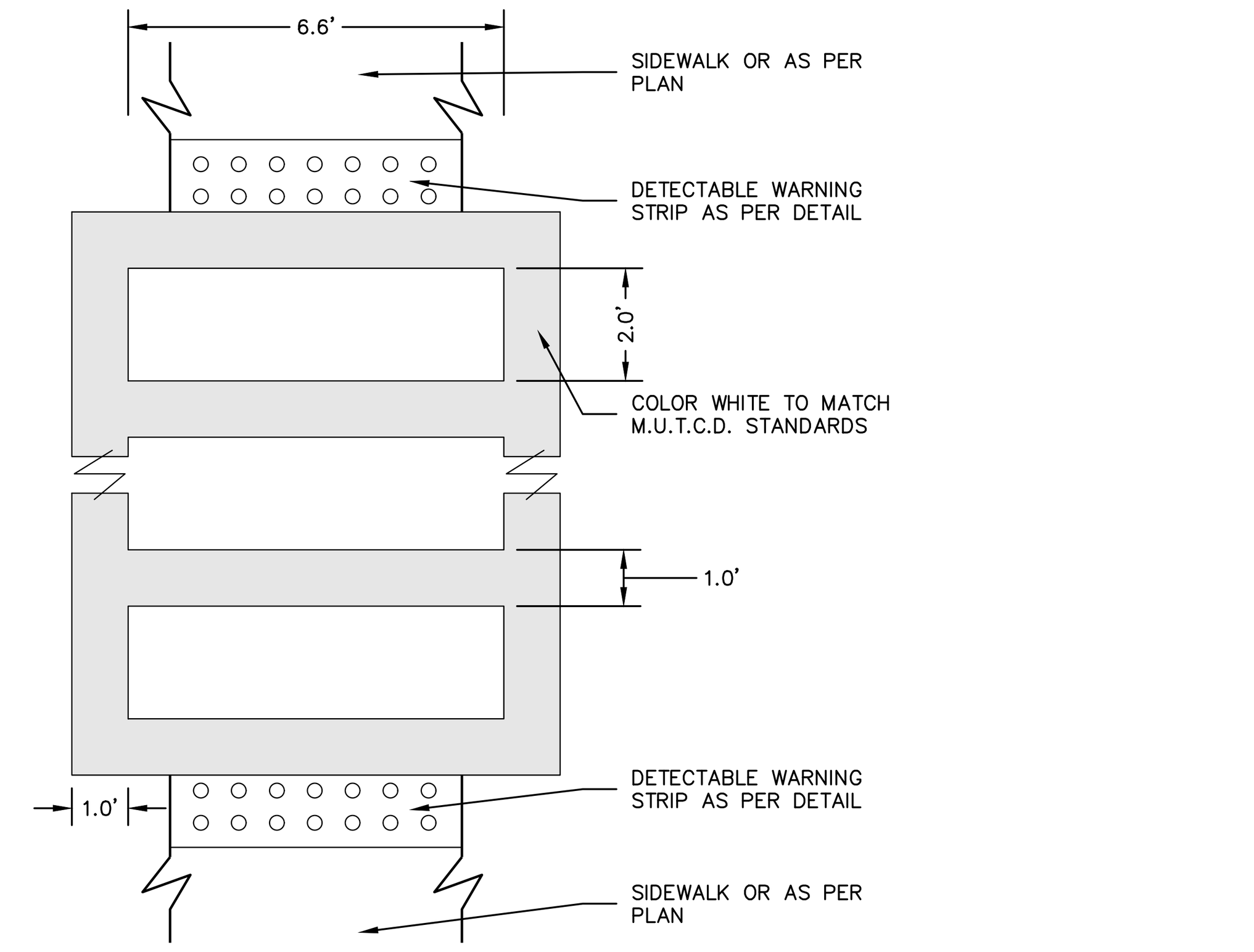




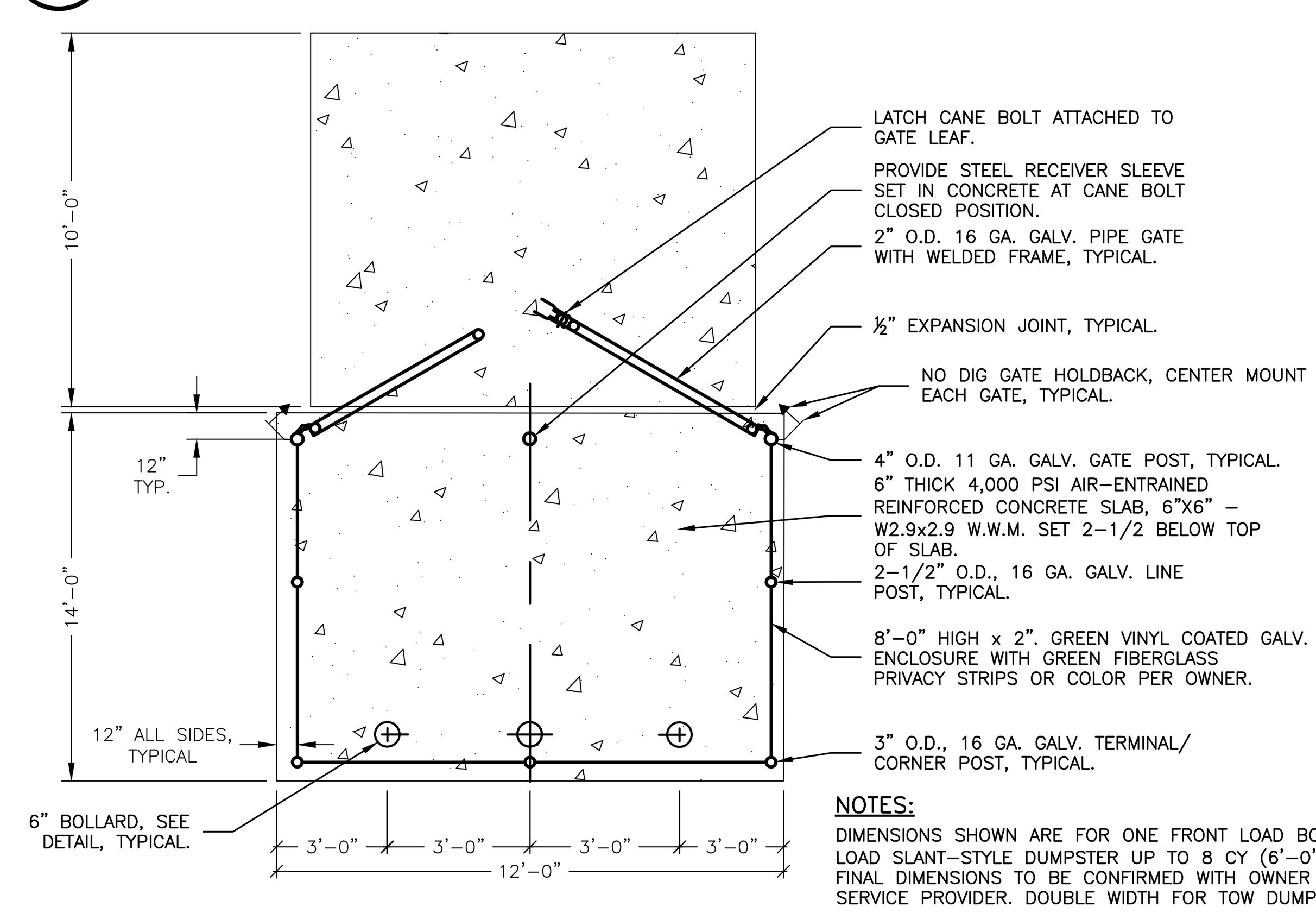
NOTES:

1. ALL CONCRETE SHALL BE CAST-IN-PLACE 4,000 PSI AIR-ENTRAINED PORTLAND CEMENT TYPE A MIX IN ACCORDANCE WITH NYS DOT SPEC. SECTION 501.
2. ALL EXPOSED SURFACED SHALL HAVE A BROOM TEXTURED FINISH & TOOLED EDGES. TOOL SHALL BE PROVIDE MAX 1-1/2" WIDE SMOOTH TROWEL FINISH ON SIDES AND AT JOINT.
3. EXPANSION JOINTS SHALL BE LOCATED A MAXIMUM OF 20' ON CENTER, OR AS INDICATED ON PLANS.
4. JOINTS SHALL NOT BE SAW-CUT.
5. APPLY SONOCRETE KURE-N-SEAL WB COMPOUND WITH FUGITIVE RED-DYE, OR APPROVED EQUAL, WHILE CONCRETE IS STILL DAMP.
6. THIS PRELIMINARY SIDEWALK DESIGN ASSUMES THAT EXISTING SUBGRADE CONDITIONS CONSIST OF CLEAN GRANULAR MATERIAL (SAND & GRAVEL) AND THAT THERE IS NO WATER TABLE INTERFERENCE. PRIOR TO CONSTRUCTION, THE OWNER SHALL VERIFY THE EXISTING SUBGRADE CONDITIONS USING A GEOTECHNICAL ENGINEERING CONSULTANT, TO DETERMINE THE FINAL PAVEMENT DESIGN.

1/9 CONCRETE SIDEWALK
NOT TO SCALE

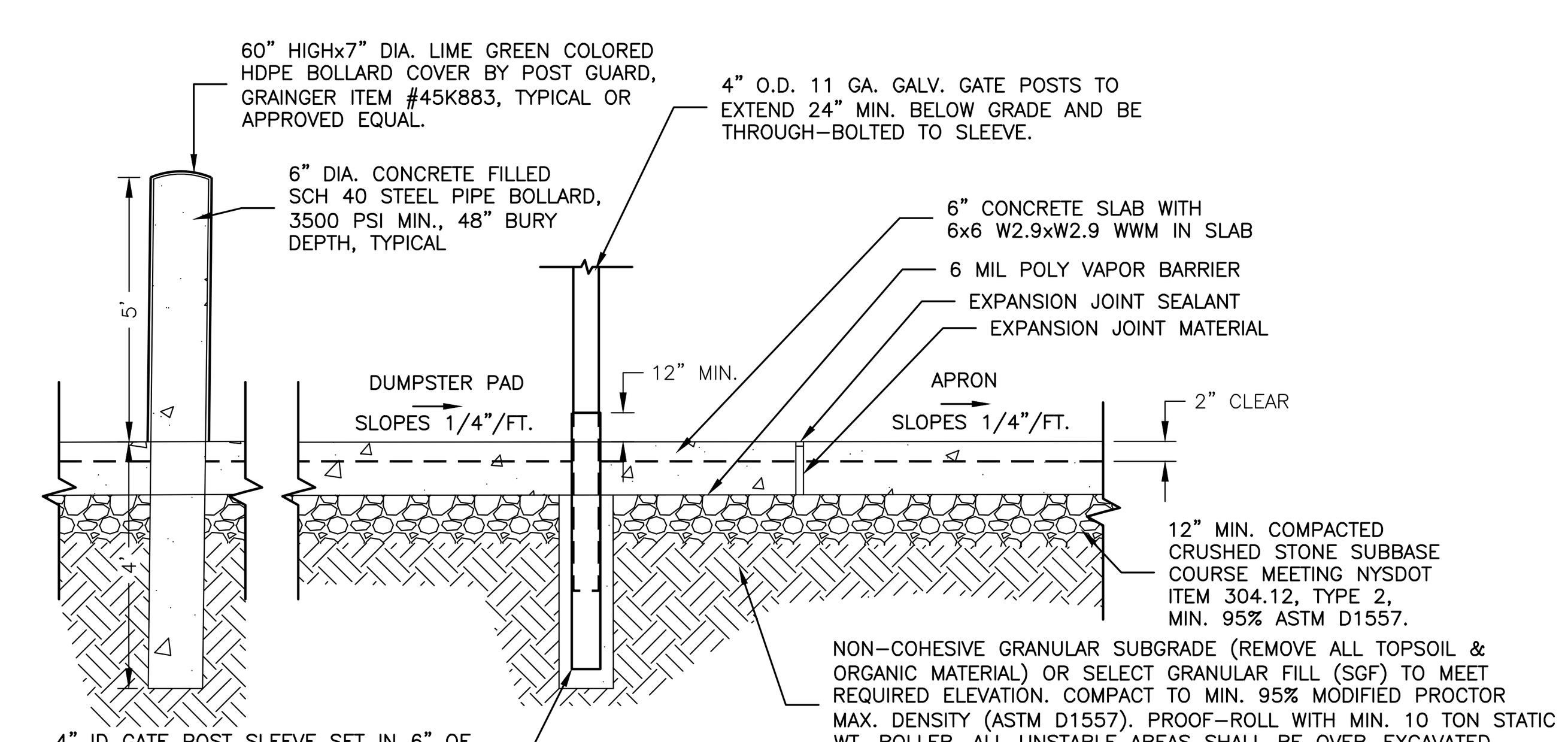


4/9 CROSSWALK STRIPING DETAIL
NOT TO SCALE



NOTES:
DIMENSIONS SHOWN ARE FOR ONE FRONT LOAD BOX OR TOP LOAD SLANT-STYLE DUMPSTER UP TO 8 CY (6'-0"Wx6'6"D). FINAL DIMENSIONS TO BE CONFIRMED WITH OWNER AND SERVICE PROVIDER. DOUBLE WIDTH FOR TOW DUMPSTERS.

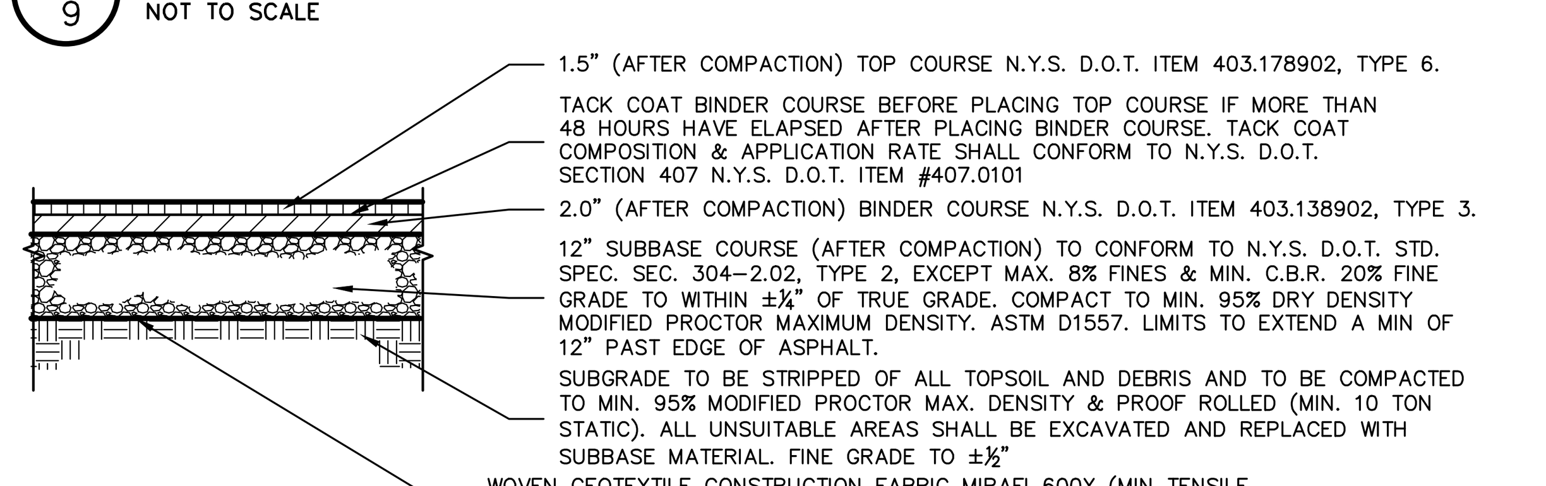
PLAN VIEW



NOTES:
1. SEE TYPICAL SLAB DETAIL FOR ADDITIONAL SPECIFICATIONS.
2. SLAB THICKNESS 6" MIN. OR PER OWNER.
3. SURROUNDING ASPHALT PAVEMENT TO MEET FLUSH WITH CONCRETE APRON.

SECTION VIEW

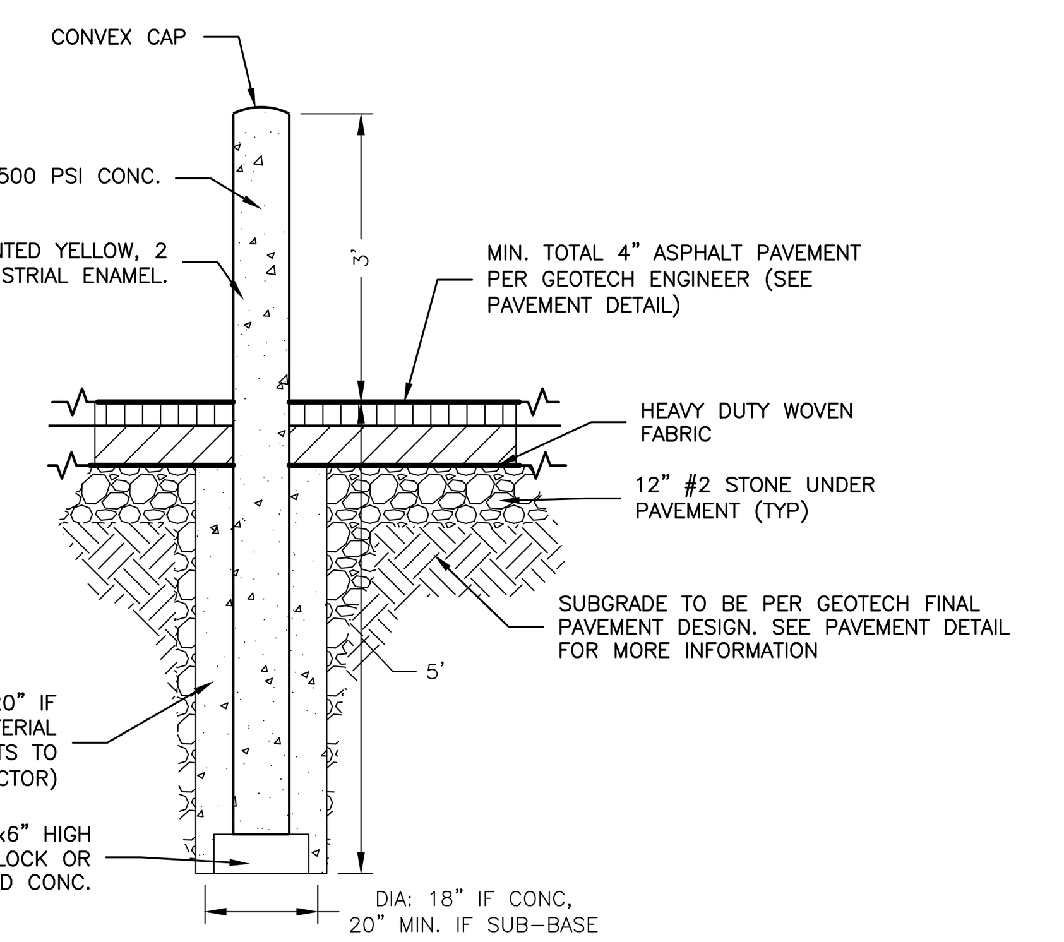
2/9 REFUSE ENCLOSURE
NOT TO SCALE



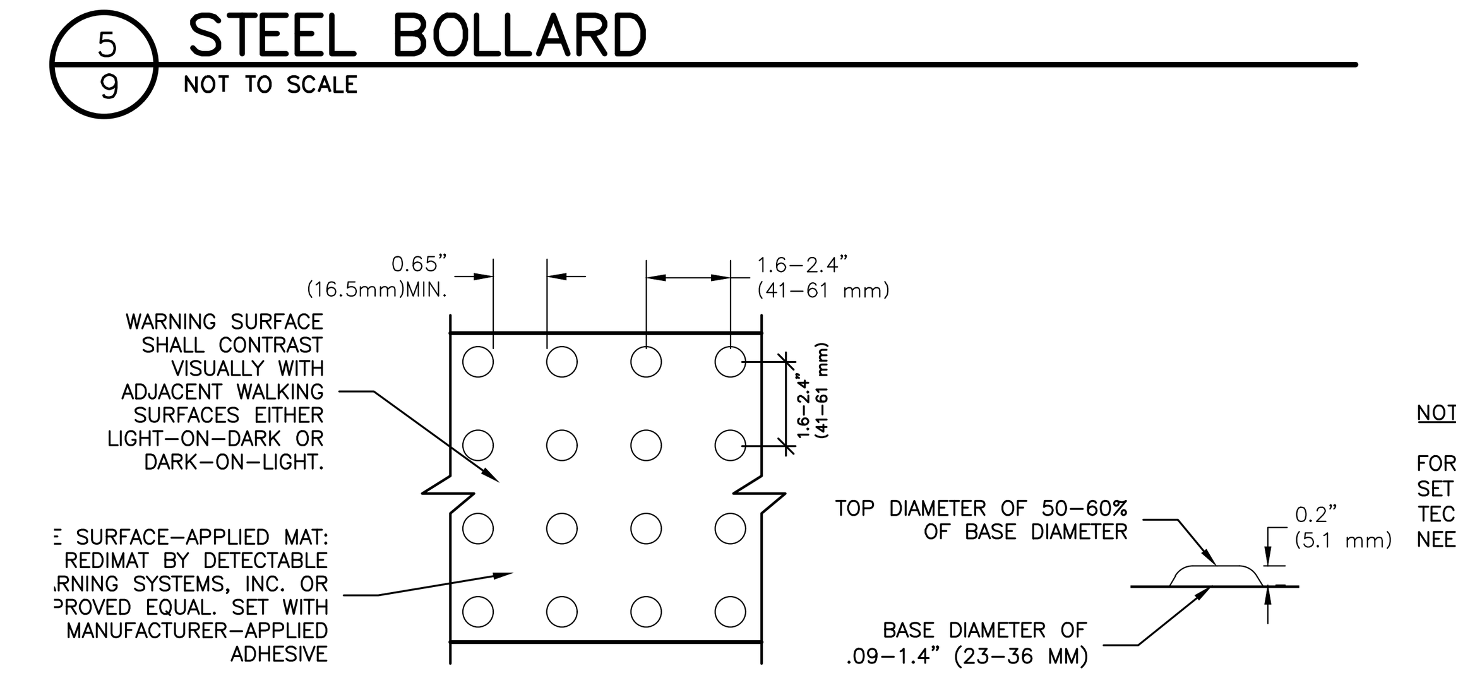
NOTES:

1. THIS PRELIMINARY PAVEMENT DESIGN ASSUMES THAT EXISTING SUBGRADE CONDITIONS CONSIST OF CLEAN GRANULAR MATERIAL (SAND & GRAVEL) AND THAT THERE IS NO WATER TABLE INTERFERENCE. PRIOR TO CONSTRUCTION, THE OWNER SHALL VERIFY THE EXISTING SUBGRADE CONDITIONS USING A GEOTECHNICAL ENGINEERING CONSULTANT TO DETERMINE THE FINAL PAVEMENT DESIGN.
2. ALL SUBBASE SHALL BE PROPERLY PLACED, COMPACTED AND DENSITY TESTED.
3. ALL ASPHALT PAVEMENTS ARE TO BE FURNISHED AND PLACED IN ACCORDANCE WITH NYS DOT STD. SPECIFICATIONS FOR HOT MIX ASPHALT, SECTION 400.
4. ASPHALT PAVEMENT COMPACTION SHALL MEET OR EXCEED 90% OF THE MAXIMUM SPECIFIC DENSITY.

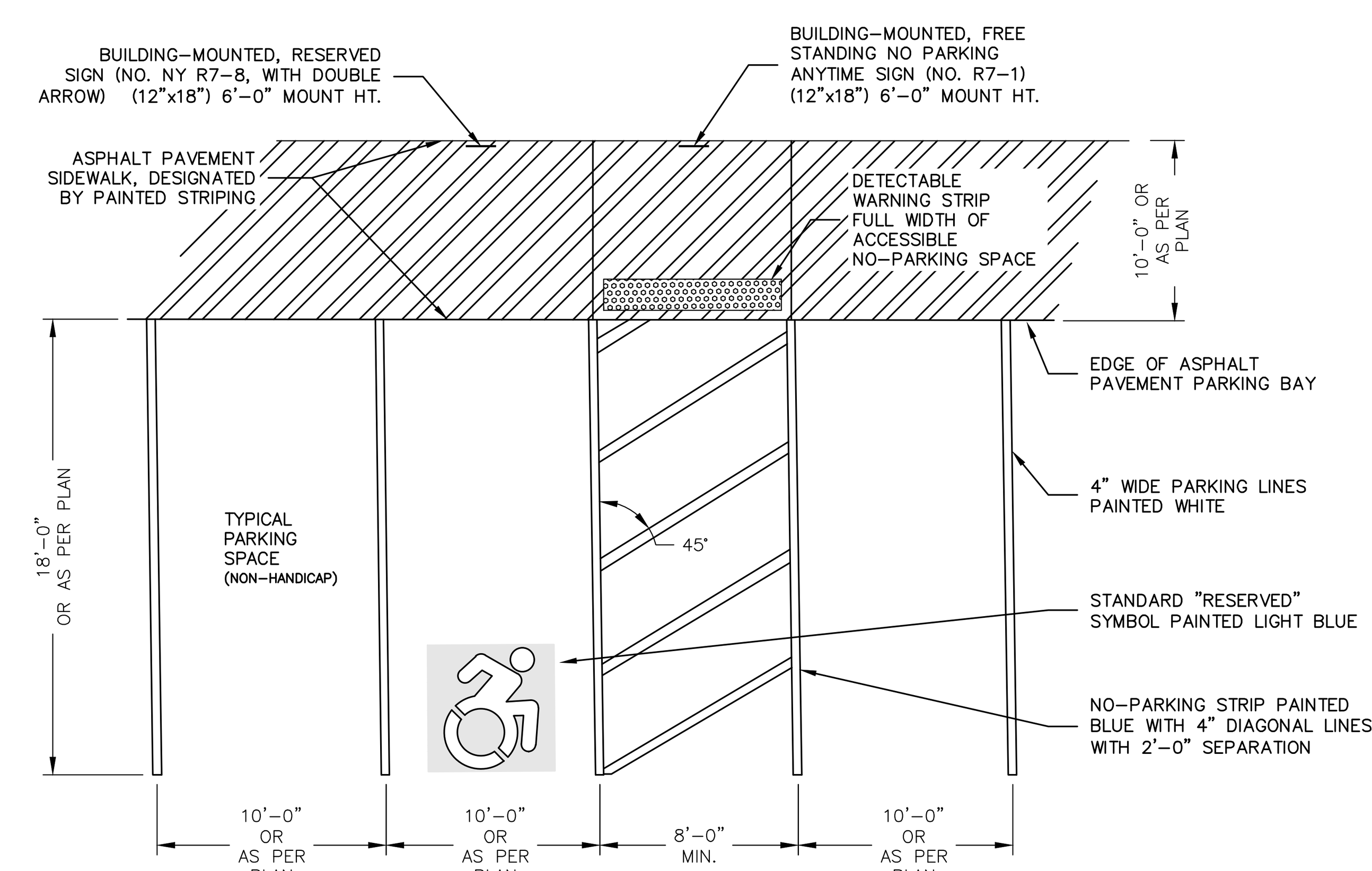
3/9 MEDIUM DUTY PAVEMENT SECTION
NOT TO SCALE



5/9 STEEL BOLLARD
NOT TO SCALE



6/9 DETECTABLE WARNING STRIP
NOT TO SCALE



7/9 PARKING STRIPING AND DIMENSIONING
NOT TO SCALE

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PROPOSED APARTMENTS FOR
112 HARRISON AVE APT.
SCHERMERHORN REAL ESTATE HOLDINGS LP
LOCATED AT 112 HARRISON AVENUE
TOWN OF MOREAU
SARATOGA COUNTY, NEW YORK
TAX MAP ID: 37.-1-18
SEPTEMBER 7, 2021

DRAWN BY	ANR
CHECK BY	JCD
EDP PROJECT NUMBER	12842

THE ALTERATION OF THESE DOCUMENTS IN ANY WAY, UNLESS DONE UNDER THE DIRECT SUPERVISION OF A COMPARABLE PROFESSIONAL, (I.E.) ENGINEER FOR AN ENGINEER, LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT OR SURVEYOR FOR A SURVEYOR, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS "A" MISDEMEANOR.

REVISION	DATE	BY

SCALE: AS NOTED

SHEET TITLE: SITE DETAILS

SHEET: 9 of 10

R:\SARATOGA\Moreau\harrison ave\112 - schermerhorn\05-dwg\detailed plans\SHEETS\11_DT-112 Harrison.dwg Nov 01, 2021 11:01:55AM,

WATER NOTES:

1) ALL PIPE MATERIALS AND APPURTENANCES ARE SUBJECT TO APPROVAL BY THE MUNICIPAL ENGINEER. CONTRACTOR TO CONFIRM WITH MUNICIPALITY PRIOR TO ORDERING.

2) THE CONTRACTOR SHALL VERIFY SIZE, TYPE HORIZONTAL AND VERTICAL LOCATION OF THE EXISTING WATER MAIN AT THE PROPOSED CONNECTION POINT(S) PRIOR TO CONSTRUCTION AND ORDERING OF ANY MATERIALS. CONFLICTS WITH OTHER UTILITIES TO BE CONSTRUCTED ARE TO BE AVOIDED. DISCREPANCIES OR CONFLICTS WITH EXISTING UTILITIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.

3) MINIMUM WATER MAIN DEPTH (COVER) TO FINISH GRADE SHALL BE 5'-0"

4) ALL FILL BELOW WATER MAIN SHALL BE COMPACTED GRANULAR MATERIAL (MIN 95% MODIFIED PROCTOR TYP).

5) ALL TRENCH BACKFILL SHALL BE MECHANICALLY COMPACTED TO PREVENT SETTLEMENT. TOP TRENCH WITH 12" MIN. APPROVED GRAVEL IN PAVED AREAS AND ALONG SIDE OF EXISTING ROAD FOR SHOULDER BASE. REPLACE DAMAGED PAVEMENTS WITH LIKE KIND AND LIKE THICKNESS.

6) WATER MAINS ARE TO BE INSTALLED IN ACCORDANCE WITH AWWA STANDARDS: C600-10 FOR DUCTILE IRON, C900-07 OR MANUAL 23 FOR PVC AND C906-15 OR MANUAL M55 FOR PE PIPE.

7) ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE CEMENT LINED IN ACCORDANCE WITH AWWA STANDARD C602.

8) ALL PE 4710 (3408) WATER PIPE SHALL BE NSF/AWWA CERTIFIED AND HAVE BLUE STRIPES OR BE COLORED BLUE.

9) ALL DUCTILE IRON PIPE SHALL BE POLYETHYLENE ENCASED IN ACCORDANCE WITH AWWA C105 UNLESS TEST RESULTS PROVIDED BY THE CONTRACTOR INDICATE THE ABSENCE OF SEVERELY AGGRESSIVE SOILS.

10) ALL WATER PIPE AND APPURTENANCES SHALL BE EITHER NSF OR UL APPROVED FOR USE WITH POTABLE WATER AND SHALL BEAR THEIR RESPECTIVE SEAL.

11) HYDRANTS SHALL BE LOCATED AT STREET INTERSECTIONS AND AT INTERMEDIATE POINTS AS INDICATED ON THE PLANS. CARE SHALL BE USED, WHEN LAYING MAINS, SO AS TO AVOID CREATING HIGH POINTS BETWEEN HYDRANTS.

12) MINIMUM SEPARATIONS BETWEEN WATER MAINS AND SANITARY AND STORM SEWERS ARE REQUIRED PER TEN STATE STANDARDS AT CROSSINGS, 18" MIN; WHERE PARALLEL, 10 FT. MIN. (MEASURED O.D. TO O.D.)

WHERE MINIMUM SEPARATIONS CANNOT BE MAINTAINED:

NEW SEWERS SHALL BE CONSTRUCTED OF MATERIALS AND WITH JOINTS EQUIVALENT TO WATER WORKS GRADE 150 PSI (1.0 Mpa) PRESSURE RATED PIPE MEETING AWWA STANDARDS OR PIPE APPROVED BY THE REVIEWING AUTHORITY AND SHALL BE PRESSURE TESTED TO ENSURE WATER TIGHTNESS.

WHERE SEWERS PRE-EXIST, THE WATER MAIN SHALL BE ENCASED IN A WATERTIGHT CARRIER PIPE (CONSTRUCTED OF WATER MAIN MATERIALS) AND EXTEND 10 FT. MIN ON BOTH SIDES OF SEWER BEING CROSSED OR TO A POINT WHERE LINES ARE SEPARATED 10 FT.

13) THRUST RESTRAINT METHODS SHALL COMPLY WITH MUNICIPAL STANDARDS. THRUST BLOCKING SHALL BE CAST IN PLACE CONCRETE AND SHALL BE SIZED AS PER THRUST BLOCK SCHEDULE THIS SHEET. SUBSTITUTE MECHANICAL RESTRAINTS MUST BE APPROVED BY THE ENGINEER.

14) ALL NEW WATER MAIN WORKS ARE TO BE HYDROSTATICALLY TESTED AGAINST THE MAIN AT 150 PSI MIN. TAPPING CONNECTIONS, CURB STOPS AND SERVICE LATERALS TO BE VISUALLY TESTED FOR LEAKS UNDER NORMAL WORKING PRESSURE PRIOR TO BACKFILL. IN ACCORDANCE WITH AWWA STANDARDS: C600-10 SECT. 4, FOR DUCTILE IRON, C900-07 OR MANUAL M23 FOR PVC, C906-15 OR MANUAL M55 FOR PE. RESULTS TO BE SUBMITTED TO MUNICIPAL ENGINEER. MODIFICATIONS TO EXISTING WORKS SHALL BE VISUALLY TESTED FOR LEAKS UNDER NORMAL WORKING PRESSURE PRIOR TO BACKFILL.

15) ALL WATER MAIN WORKS SHALL BE DISINFECTED AND BACTERIOLOGICALLY TESTED IN ACCORDANCE WITH AWWA STANDARD C651-14 (SEE DISINFECTION PROCEDURE THIS SHEET) RESULTS TO BE SUBMITTED TO THE MUNICIPAL ENGINEER.

16) CURB BOXES ARE TO BE INSTALLED SO THAT CAPS EXTEND ABOVE FINISHED GRADE 1" AND IDENTIFIED WITH 2x4 LUMBER MARKER IN GRASSY AREAS. IN PAVED AREAS, USE TWO PIECE CURB BOX CAP (W/PENTAGONAL PLUG) AND CAST IRON CURB BOX SLEEVE TO ALLOW ADJUSTMENT OF THE GROUND KEY LID (MUELLER H-10342 OR APPROVED EQUAL).

17) IT WILL BE THE CONTRACTORS RESPONSIBILITY TO ADHERE STRICTLY TO ALL RELEVANT NYS OSHA LABOR SAFETY STANDARDS INCLUDING, BUT NOT LIMITED TO, THOSE RELATING TO CONSTRUCTION SAFETY AND TRENCH SHORING.

18) IT MAY BE NECESSARY TO "TIE BACK" OR HOLD UTILITY POLES DURING CONSTRUCTION. THIS SHOULD BE ACCOMPLISHED IN COOPERATION WITH UTILITY COMPANIES DIRECTLY BY THE CONTRACTOR.

19) THE INFORMATION REPRESENTED WITHIN THESE DOCUMENTS DOES NOT IMPLY ANY CONTRACT OR OBLIGATION FOR PERFORMING ANY OR ALL TOWN, COUNTY OR STATE REQUIRED INSPECTIONS DURING THE COURSE OF CONSTRUCTION OR PURSUANT TO OBTAINING CERTIFICATE OF OCCUPANCY. SUCH INSPECTION SERVICES IF PERFORMED BY THIS OFFICE SHALL BE ESTABLISHED BY SEPARATE CONTRACT.

20) ALL GENERAL AND SPECIFIC NOTES AND DETAILS ON OTHER PLAN SHEETS THAT ARE PART OF THESE PLANS SHALL APPLY.

21) ALL LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES SUCH AS GAS, WATER, TELEPHONE, POWER, CABLE TV, ETC. PRIOR TO COMMENCEMENT OF CONSTRUCTION.

22) AS PER NYS INDUSTRIAL CODE 53, CONTRACTOR TO CALL 1-800-962-7962 TO LOCATE BURIED OR OTHER UNDERGROUND UTILITIES NO LESS THAN TWO OR MORE THAN TEN WORKING DAYS PRIOR TO DIGGING, DRILLING, EXCAVATING, DRIVING POSTS, ETC.

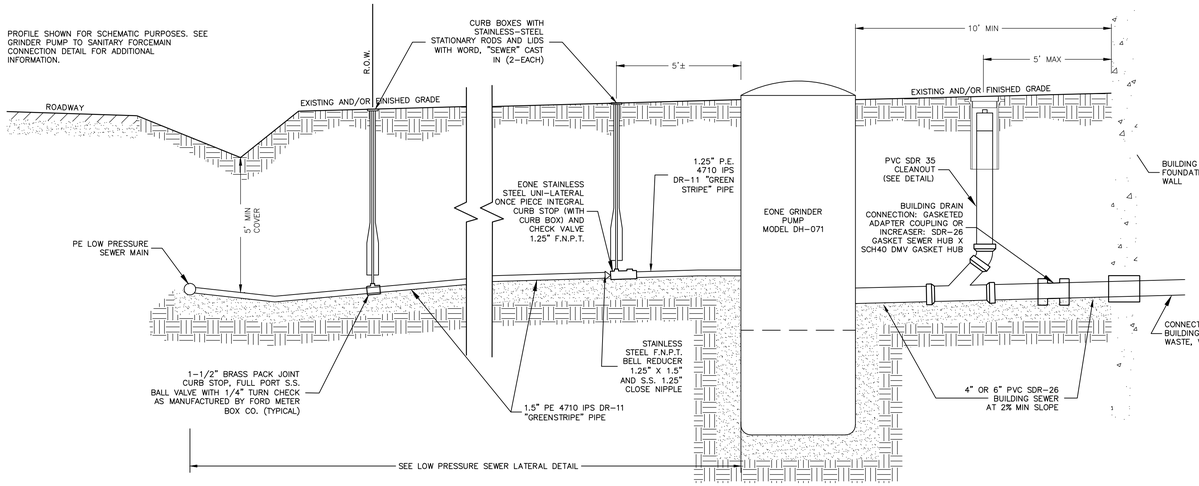
DISINFECTION PROCEDURE

NEW MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH THE CURRENT AWWA STANDARD FOR DISINFECTING WATER MAINS, ANSI/AWWA C-651-14, SECTION 4.4 CONTINUOUS FEED METHOD. THE TABLET METHOD IS NOT PERMITTED BY NYSDOH AND SHALL NOT BE USED. THE SLUG METHOD, SECTION 4.5, MAY BE USED WHEN APPROVED BY THE ENGINEER. BASIC DISINFECTION BY SPRAYING OR SWABBING WITH MIN 1% CHLORINE SOLUTION IN ACCORDANCE WITH, SECTION 4.11.2, SHALL BE USED WHEN CUTTING INTO OR REPAIRING EXISTING MAINS. REQUIRED STEPS ARE:

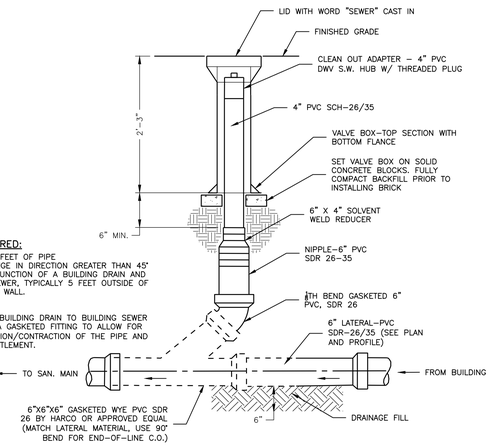
1. WORK CLEAN: PREVENT CONTAMINATING MATERIALS FROM ENTERING THE WATER MAIN DURING STORAGE, CONSTRUCTION, OR REPAIR.
2. PREVENT BACKFLOW: PROTECT THE EXISTING DISTRIBUTION SYSTEM FROM ANY BACKFLOW CAUSED BY HYDROSTATIC PRESSURE TESTING AND DISINFECTION PROCEDURES. THE SUPPLY VALVE SHALL BE KEPT CLOSED AT ALL TIMES EXCEPT DURING FLUSHING OPERATIONS.
3. PRE-FLUSH:
   A. FILL THE WATER MAIN AND ELIMINATE ALL AIR POCKETS.
   B. FLUSH THE WATER MAIN AT A VELOCITY NOT LESS THAN 2.5 FT/SEC TO REMOVE PARTICULATES.
4. DOSE CHLORINE (CONTINUOUS METHOD):
   A. INSTALL A TEST TAP NOT MORE THAN 10 FT. DOWNSTREAM FROM THE BEGINNING OF THE NEW MAIN.
   B. TO WATER ENTERING THE NEW MAIN, FEED A DOSE OF CHLORINE AT A CONSTANT RATE SUCH THAT THE WATER SHALL HAVE A RESIDUAL NOT LESS THAN 25 MG/L OF FREE CHLORINE. VERIFY CHLORINE CONCENTRATIONS AT ALL HYDRANTS, TAPS, AND SERVICE LATERALS. DOSING SHALL CONTINUE UNTIL HEAVILY CHLORINATED WATER IS CONTINUOUS THROUGHOUT THE NEW MAIN AND ALL VALVES AND HYDRANTS HAVE BEEN OPERATED TO PROVIDE CHLORINE CONTACT.
5. CONTACT TIME: AFTER A 24-HOUR MINIMUM RETENTION PERIOD, THE TREATED WATER SHALL HAVE A RESIDUAL OF NOT LESS THAN 10 MG/L OF FREE CHLORINE. VERIFY CHLORINE CONCENTRATIONS AT ALL HYDRANTS, TAPS, AND SERVICE LATERALS. REPEAT STEP 4.B. IF RESIDUAL IS LESS THAT 10 MG/L.
6. FLUSH/ NEUTRALIZE: FLUSH THE HEAVILY CHLORINATED WATER FROM THE MAIN UNTIL A RESIDUAL OF NOT MORE THAN 1.0 MG/L REMAINS. APPLY A NEUTRALIZING CHEMICAL TO ELIMINATE THE RESIDUAL CHLORINE IF THERE IS ANY POSSIBILITY THAT HEAVILY CHLORINATED WATER DISCHARGE WILL CAUSE DAMAGE TO THE ENVIRONMENT.
7. BACTERIOLOGICAL VERIFICATION: TWO CONSECUTIVE SETS OF ACCEPTABLE SAMPLES, TAKEN AT LEAST 24 HOURS APART, SHALL BE COLLECTED FROM THE NEW MAIN AS FOLLOWS: ONE SET PER 1000 LF OF NEW MAIN PLUS ONE SET FROM THE END-OF-THE-LINE AND ONE SET FROM EACH BRANCH -AT A MINIMUM. FOR ANY FAILED SAMPLE RESULT, REFLUSH THE NEW MAIN AND RESAMPLE. IF CHECK SAMPLES FAIL, THE MAIN SHALL BE REDISINFECTED UNTIL SATISFACTORY RESULTS ARE OBTAINED.

WWSA STANDARD NOTES:

1. ALL WATER AND WASTEWATER SYSTEMS ALONG WITH ALL RELATED PROPERTIES AND EASEMENTS NEEDED FOR WATER AND SEWER SERVICE FOR THIS PROJECT SHALL BE OFFERED WITHOUT COST TO THE WWSA. ALL COSTS ASSOCIATED WITH THE TRANSFER OF PROPERTY AND SYSTEMS SHALL BE AT THE APPLICANT'S EXPENSE. UPON ACCEPTANCE BY THE WWSA, THE WWSA WILL OWN ALL WATER AND SANITARY WASTEWATER SYSTEMS.
2. THE APPLICANT IS RESPONSIBLE TO PROVIDE A CERTIFICATION BY A LICENSED PROFESSIONAL ENGINEER THAT ALL WATER AND SANITARY WASTEWATER SYSTEMS ARE CONSTRUCTED IN COMPLIANCE WITH THE APPROVED PLANS. P.E. STAMPED/SIGNED MYLAR RECORD DRAWINGS SHALL BE SUBMITTED TO THE WWSA.
3. THE APPLICANT IS REQUIRED TO COMPLY WITH ALL OF THE WWSA'S PERFORMANCE BOND AND FEE REQUIREMENTS (INCLUDING, BUT NOT LIMITED TO, WATER SERVICE BUY-IN FEES, SEWER CAPITAL IMPROVEMENT FEES, AND INSPECTION FEES). THE APPLICANT SHOULD CONTACT THE WWSA DIRECTLY TO DETERMINE THE REQUIRED WATER AND SEWER FEES. THE WWSA INSPECTS WATER AND SEWER FACILITIES (E.G. PUMP STATIONS), WATER MAINS, WATER SERVICES, AND SEWER LATERALS.
4. WATER AND SEWER SERVICE MUST BE MAINTAINED TO ALL SYSTEM USERS DURING CONSTRUCTION ACTIVITIES.
5. ALL WATER DISTRIBUTION SYSTEM COMPONENTS SHALL BE IN ACCORDANCE WITH THE RULES, REGULATIONS, AND CONSTRUCTION STANDARDS OF THE WWSA, AND THE MOST RECENT STANDARDS AND SPECIFICATIONS OF THE NYSDOH AND THE NYSDEC. PLEASE NOTE THE WWSA'S STANDARD HYDRANT, WATER METER, VALVE, AND PIPE MATERIAL REQUIREMENTS. GRIPRING (OR EQUAL) MECHANICAL JOINT RESTRAINTS AND BLUE BOLTS SHALL BE USED FOR ALL WATER MAIN FITTINGS.
6. WATER METERS SHALL BE LOCATED ON EACH WATER SERVICE. COORDINATE WITH THE WWSA FOR PURCHASE OF THE WATER METER.
7. ALL WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C-651 OR OTHER METHOD APPROVED BY THE WWSA. FOLLOWING FLUSHING, WATER SAMPLES SHALL BE COLLECTED FROM THE MAIN AND EACH BRANCH. FIRE HYDRANTS ARE NOT ACCEPTABLE SAMPLING POINTS. WATER SAMPLES SHALL BE COLLECTED AND THE WATER MAIN SHALL NOT BE PLACED IN SERVICE UNTIL THE WATER HAS BEEN APPROVED AND NOTIFICATION THEREOF RECEIVED.
8. ALL NEWLY INSTALLED WATER MAINS SHALL BE PRESSURE AND LEAKAGE TESTED IN ACCORDANCE WITH AWWA C-600.
9. ALL SANITARY WASTEWATER SYSTEMS SHALL BE CONSTRUCTED, INSTALLED, AND TESTED IN ACCORDANCE WITH THE RULES, REGULATIONS, AND CONSTRUCTION STANDARDS OF THE WWSA AND THE MOST RECENT STANDARDS AND SPECIFICATIONS OF THE NYSDOH, NYSDEC, AND THE SARATOGA COUNTY SEWER DISTRICT NO. 1.



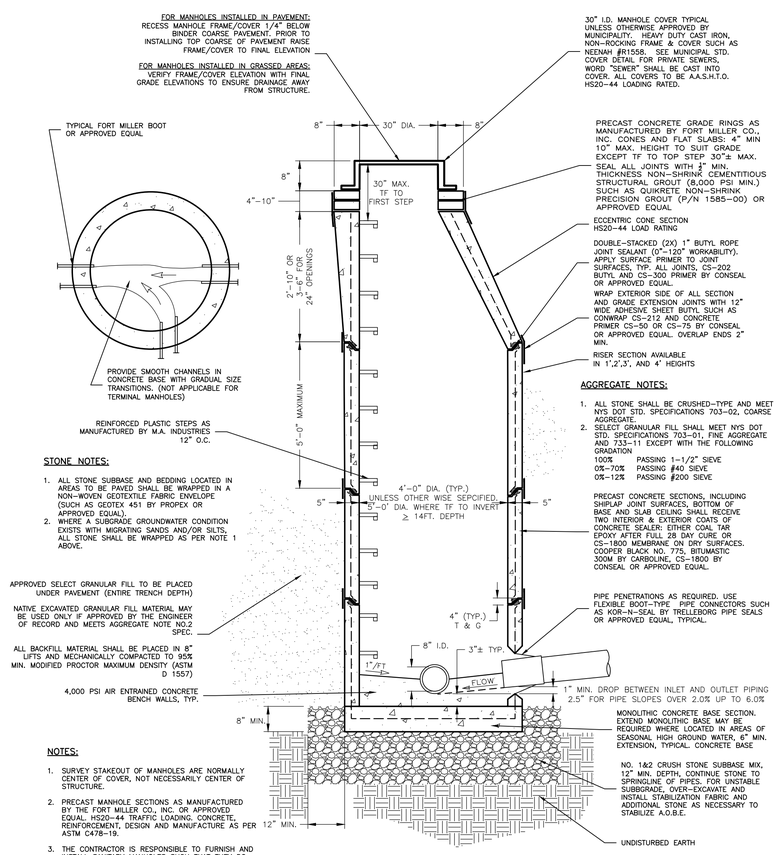
1/10 TYPICAL GRINDER PUMP TO SANITARY FORCE MAIN PROFILE
NOT TO SCALE



WHERE REQUIRED:
- EVERY 100 FEET OF PIPE
- EVERY CHANGE IN DIRECTION GREATER THAN 45°
- NEAR THE JUNCTION OF A BUILDING DRAIN AND BUILDING SEWER, TYPICALLY 5 FEET OUTSIDE OF FOUNDATION WALL.

NOTES:
CONNECTION OF BUILDING DRAIN TO BUILDING SEWER SHALL BE WITH A GASKETED FITTING TO ALLOW FOR THERMAL EXPANSION/CONTRACTION OF THE PIPE AND DIFFERENTIAL SETTLEMENT.

5/10 SANITARY SEWER CLEANOUT
NOT TO SCALE

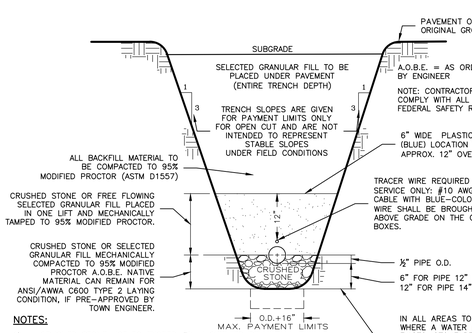


STONE NOTES:
1. ALL STONE SUBBASE AND BEDDING LOCATED IN AREAS TO BE PAVED SHALL BE WRAPPED IN A NON-WOVEN GEOTEXTILE FABRIC ENVELOPE (SUCH AS GEOTEX 451 BY PROPEX OR APPROVED EQUAL).
2. WHERE A SUBGRADE GROUNDWATER CONDITION EXISTS WITH MIGRATING SANDS AND/OR SILTS, ALL STONE SHALL BE WRAPPED AS PER NOTE 1 ABOVE.

APPROVED SELECT GRANULAR FILL TO BE PLACED UNDER PAVEMENT (ENTIRE TRENCH DEPTH)
NATIVE EXCAVATED GRANULAR FILL MATERIAL MAY BE USED ONLY IF APPROVED BY THE ENGINEER OF RECORD AND MEETS AGGREGATE NOTE NO.2 SPEC.
ALL BACKFILL MATERIAL SHALL BE PLACED IN 8" LIFTS AND MECHANICALLY COMPACTED TO 95% MIN. MODIFIED PROCTOR MAXIMUM DENSITY (ASTM D 1557)
4,000 PSI AIR ENTRAINED CONCRETE BENCH WALLS, TYP.

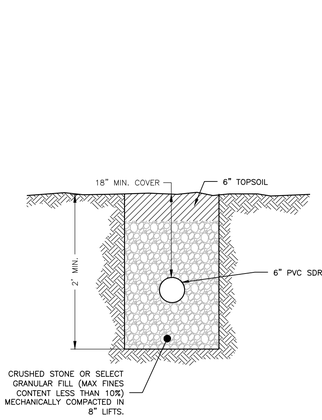
NOTES:
1. SURVEY STAKEOUT OF MANHOLES ARE NORMALLY CENTER OF COVER, NOT NECESSARILY CENTER OF STRUCTURE.
2. PRECAST MANHOLE SECTIONS AS MANUFACTURED BY THE FORT MILLER CO., INC. OR APPROVED EQUAL. HS20-44 TRAFFIC LOADING. CONCRETE, REINFORCEMENT, DESIGN AND MANUFACTURE AS PER ASTM C478-19.
3. THE CONTRACTOR IS RESPONSIBLE TO FURNISH AND INSTALL SANITARY MANHOLES SUCH THAT THEY DO NOT INFILTRATE WATER AS DETERMINED BOTH VISUALLY AND BY VACUUM TESTING IN ACCORDANCE WITH ASTM C 1244-05. THE CONTRACTOR SHALL MAKE ALL NECESSARY MATERIAL REPLACEMENTS AND/OR REPAIRS TO ACCOMPLISH THIS.

2/10 SANITARY MANHOLE
NOT TO SCALE

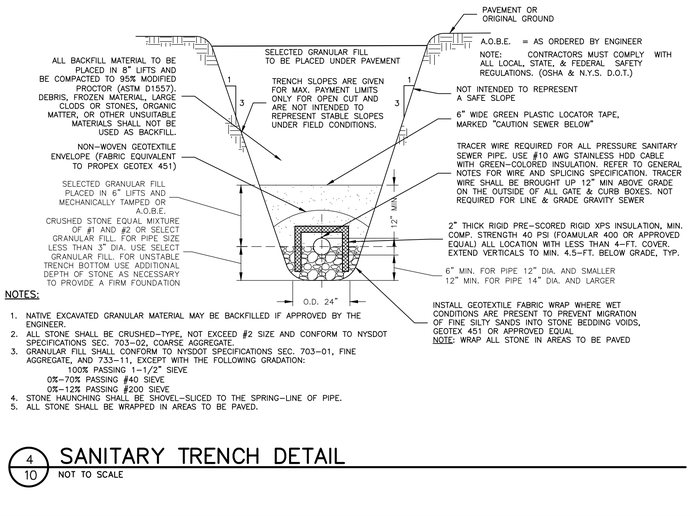


NOTES:
1) CRUSHED STONE NOT TO EXCEED #2 IN SIZE, TO BE CLEAN, SOUND AND FROM AN APPROVED NYSDOT STONE SOURCE AND/OR MEET NYSDOT STANDARD SPECIFICATIONS SECTION 703-2, COARSE AGGREGATES.
2) GRANULAR FILL TO MEET NYSDOT SECTION 703-01, FINE AGGREGATE AND THE FOLLOWING REQUIREMENTS:
0% IN EXCESS OF 1-1/2"
0%-70% PASSING #40 SIEVE
0%-12% PASSING #200 SIEVE

3/10 WATER TRENCH DETAIL
NOT TO SCALE



6/10 SANITARY SEWER LATERAL TRENCH
NOT TO SCALE



NOTES:
1. NATIVE EXCAVATED GRANULAR MATERIAL MAY BE BACKFILLED IF APPROVED BY THE ENGINEER.
2. ALL STONE SHALL BE CRUSHED-TYPE, NOT EXCEED #2 SIZE AND CONFORM TO NYSDOT SPECIFICATIONS SEC. 703-02, COARSE AGGREGATE.
3. GRANULAR FILL SHALL CONFORM TO NYSDOT SPECIFICATIONS SEC. 703-01, FINE AGGREGATE, AND 733-11, EXCEPT WITH THE FOLLOWING GRADATION:
100% PASSING 1-1/2" SIEVE
0%-70% PASSING #40 SIEVE
0%-12% PASSING #200 SIEVE
4. STONE HAUNCHING SHALL BE SHOVEL-SLICED TO THE SPRING-LINE OF PIPE.
5. ALL STONE SHALL BE WRAPPED IN AREAS TO BE PAVED.

4/10 SANITARY TRENCH DETAIL
NOT TO SCALE

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PROPOSED APARTMENTS FOR
112 HARRISON AVE APT.
SCHERMERHORN REAL ESTATE HOLDINGS LP
LOCATED AT 112 HARRISON AVENUE
TOWN OF MOREAU
SARATOGA COUNTY, NEW YORK

TAX MAP ID: 37.-1-18
SEPTEMBER 7, 2021

DRAWN BY	ANR
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REVISION	DATE	BY

SCALE: AS NOTED

SHEET TITLE: SITE DETAILS

SHEET: 10 of 10

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