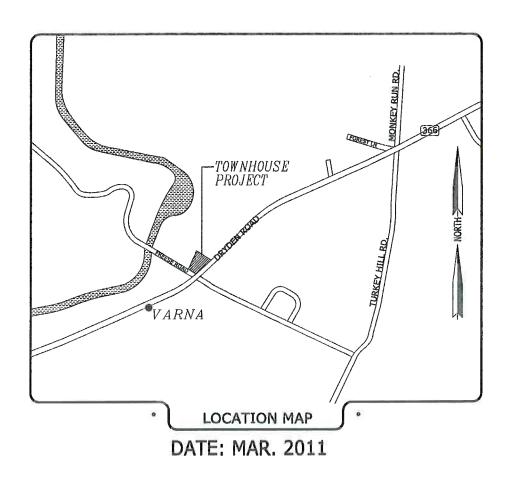
MONKEY RUN TOWNHOUSE PROJECT DRYDEN ROAD, M.Y.S. ROUTE 366 TOWN OF DRYDEN



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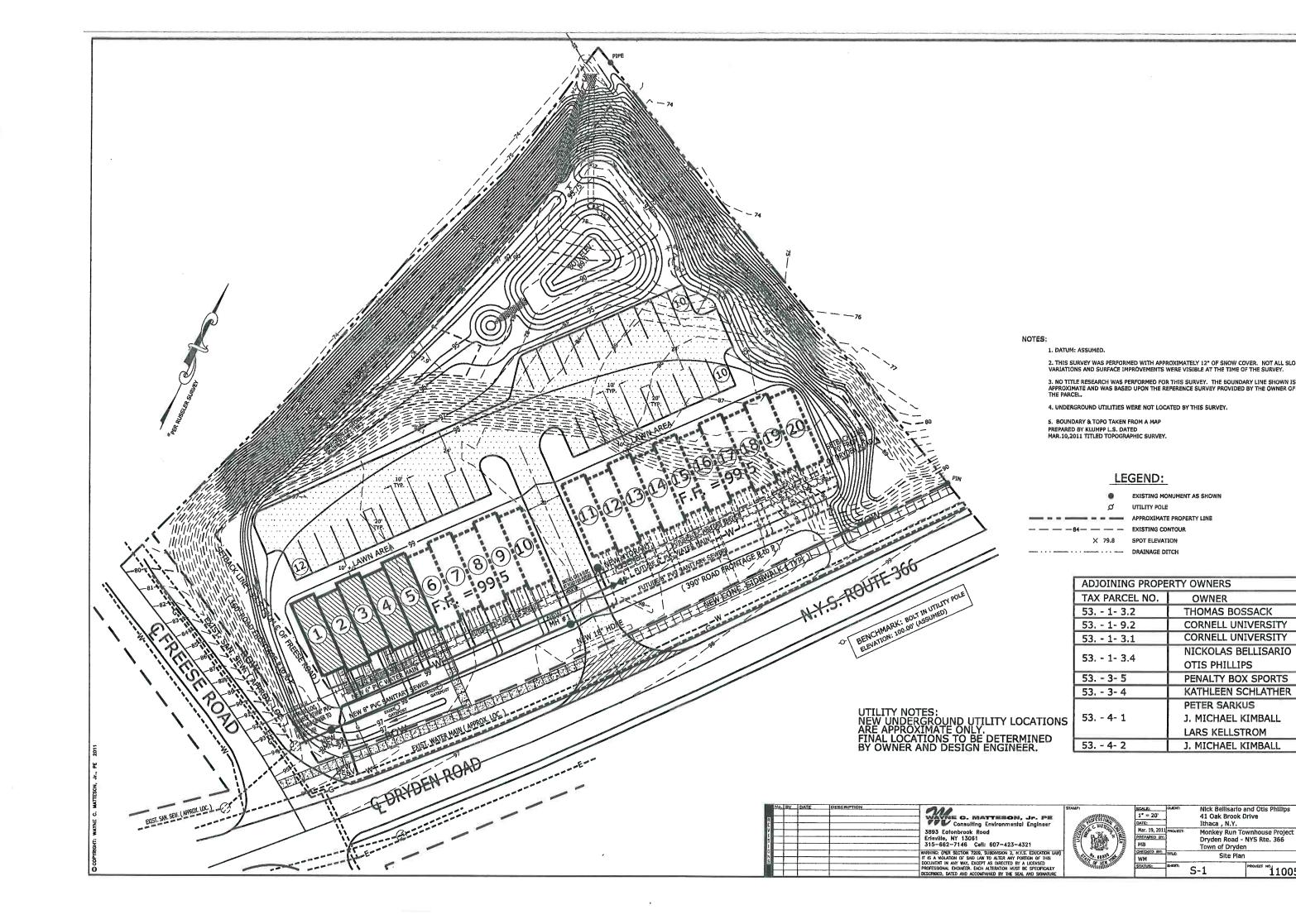
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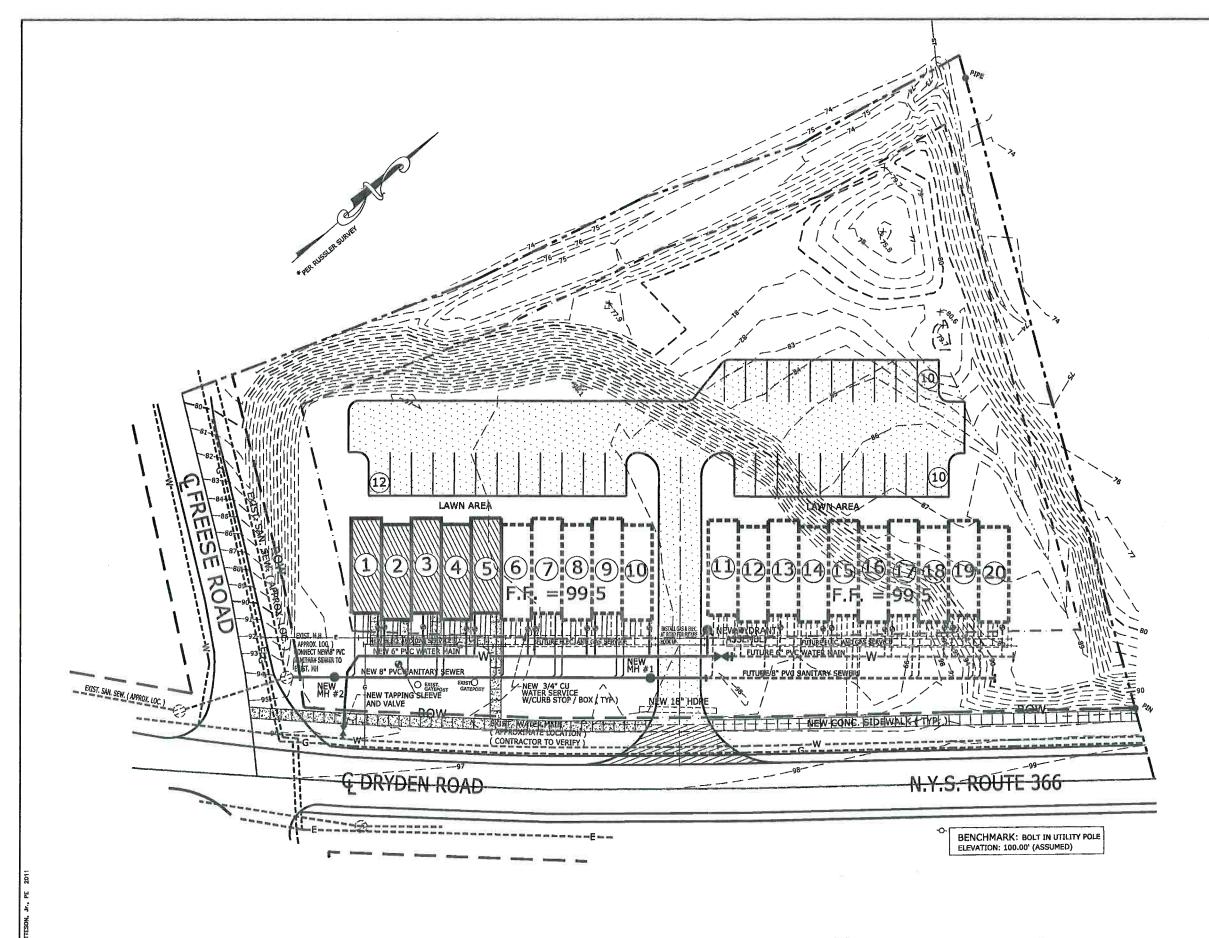
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S	F				Erleville, NY 13061 315-662-7146 Cell: 607-423-4321
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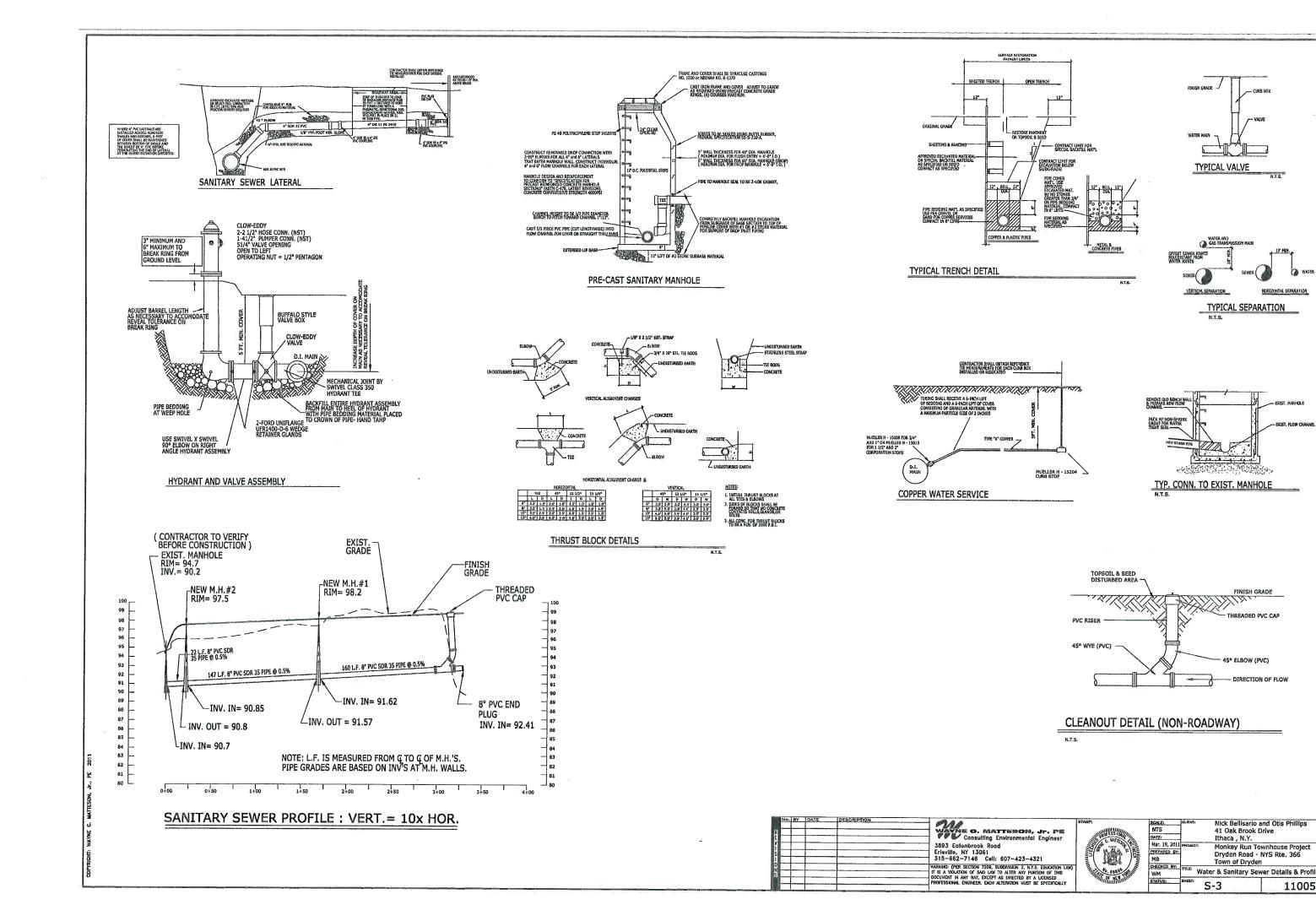
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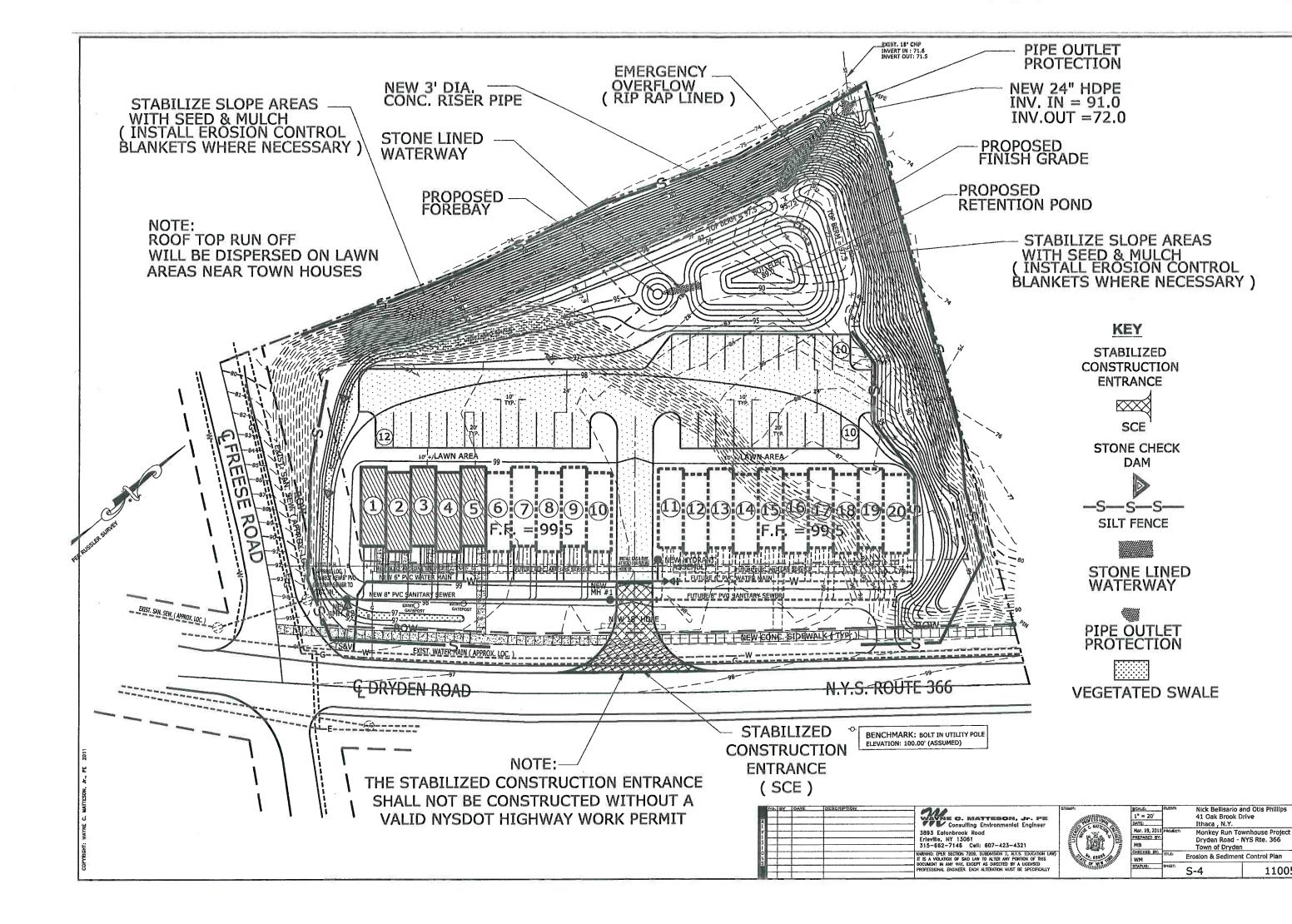




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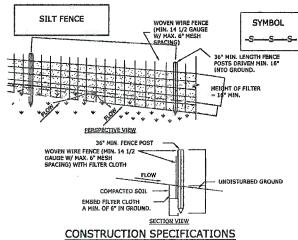
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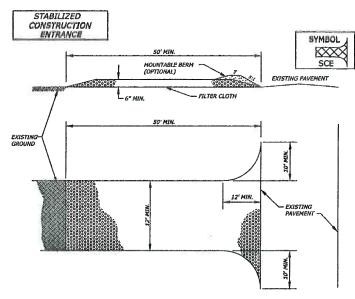


CONSTRUCTION SPECIFICATIONS

- 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 TOE OF THE UPSTREAM DAM.
- 3. 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.
- 5. Ensure that channel appurtenances such as culvert entrances below check dams are not subject to damage or blockage from displaced stone. MAXIMUM DRAINAGE AREA 2 ACRES.

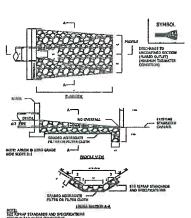


- 2. FILTER CLOTH TO BE TO FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID- SECTION. FENCE SHALL BE WOVEN WIRE, 12 1/2 GAUGE, 6" MAXIMUM MESH OPENING.
- 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFT 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
- 4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROPENCE, OR APPROVED EQUIVALENT.
- 5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BUILGES" DEVELOP IN THE SILT FENCE.



CONSTRUCTION SPECIFICATIONS

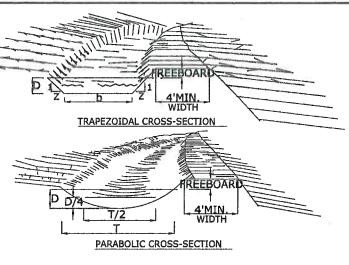
- 1. STONE SIZE USE 2" STONE OR RECLAIMED OR RECYCLED CONCRETE
- LENGTH NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MIN. LENGTH WOULD APPLY).
- 3. THICKNESS NOT LESS THAN SIX (6) INCHES.
- 4. WIDTH TWELVE (12) FOOT MIN. BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- 5. FILTER CLOTH WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- 6. SURFACE WATER ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- 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 TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- 8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPINGS
- 9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.
- 10. TEMPORARY CONSTRUCTION ENTRANCES, EXITS AND TEMPORARY ACCESS SHALL BE SUBJECT TO THE APPROVAL OF THE APPROPRIATE AUTHORITIES.



CONSTRUCTION SPECIFICATIONS:

- THE SUBGRADE FOR THE FILTER, RIPRAP, OR GABION SHALL BE PREPARED TO THE REQUIRED LINE AND GRADES. ANY FILL REQUIRED IN THE SUBGRADE SHALL BE COMPACTED TO A DENSITY OF APPROXIMATELY THAT OF THE SURROUNDING UNDISTURBED MATERIAL 2. THE ROCK OR GRAVEL SHALL CONFORM TO THE SPECIFIED
- GRADING LIMITS WHEN INSTALLED RESPECTIVELY IN THE RIPRAP OR FILTER. 3. FILTER CLOTH SHALL BE PROTECTED FROM PUNCHING, COTTINGON TEARING, ANY DATAGED OTHER THAN ARE OCCUSIONAL SMALL HOLE SHALL BE REPAIRED BY PLACING ANOTHER PIECE OF CLOTH OVER THE DAMAGED PART OR BY COMPLETELY REPLACING THE CLOTH, ALL OVERLAPS, WHETHER FOR REPAIRS RO FOR JOINING TWO PIECES OF CLOTH SHALL BE A HIMIMUM OF ONE FOOT.
- 4. STONE FOR THE RIPRAP OR GABION OUTLETS MAY BE PLACED BY EQUIPMENT. BOTH SHALL EACH BE CONSTRUCTED TO THE FULL COURSE THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO AVOID DISPLACEMENT OF UNDERLYING MATERIALS THE STONE FOR RIPRAP OR GABION OUTLETS SHALL BE DELIVERED THE STUME FOR KIPPARY OR GABLOW COLLETS STALL BE DELIVERED AND PLACED IN A MANNER THAT I'LL ENURE THAT I'S REASONABLY HOMOGENEOUS WITH THE SMALLER STONES AND SPALLS FILLING THE VOIDS BETWEEN THE LAGGER STONES, RIPPAP SHALL BE PLACED IN A MANNER TO PREVENT DAMAGE TO THE FILTER BLANKET OR FILTER COTH, HAND PLACEMENT WILL BE REQUIRED TO THE EXTENT NECESSARY TO PREVENT DAMAGE TO THE PERMANENT WORKS.

ROCK OUTLET PROTECTION DETAIL



DIVERSION DETAIL

CONSTRUCTION SPECIFICATIONS

- 1. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE WATERWAY.
- 2. THE WATERWAY SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN, AND BE FREE DANK PROJECTIONS OF OTHER IRREGULARITIES WHICK WILL IMPEOR NORMAL FLOW.
- 3. FILLS SHALL BE COMPACTED AS NEEDED TO PREVENT UNEQUAL SETTLEMENT THAT WOULD CAUSE DAMAGE IN THE COMPLETE WATERWAY.
- ALL EARTH REMOVED AND NOT NEEDED IN CONSTRUCTION SHALL BE SPREAD OR DISPOSED OF SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE
- 5. STABILIZATION SHALL BE DONE ACCORDING TO THE APPROPRIATE STANDARD AND SPECIFICATIONS FOR VEGETATIVE PRACTICES.
- AND SPECIFICATIONS FOR VEGETATIVE PRACTICES.

 A. FOR DESIGN VELOCITIES OF LESS THAN 3.5 FT. PER. SEC., SEEDING AND MULCHING MAY BE USED FOR THE ESTABLISHMENT OF THE VEGETATION.

 IT IS RECOMMENDED THAT, WHEN CONDITIONS PERMIT, TEMPORARY WATERWAYS OR OTHER MEANS SHOULD BE USED TO PREVENT WATER FROM ENTERING THE WATERWAY DURING THE ESTABLISHMENT OF THE VEGETATION.
- B. FOR DESIGN VELOCITIES OF MORE THAN 3.5 FT. PER. SEC., THE WATERWAY SHALL BE STABILIZED WITH SOO, WITH SEEDING APOTECTED BY JUTE OR EXCELSION MATTIMG OR WITH SEEDING AND MULCHIMN INCLUDING TEMPORARY DIVERSION OF THE WATER UNTIL THE VEGETATION IS ESTABLISHED. USE WHERE CHANNEL SLOPE IS EQUAL TO OR GREATER THAN 5.0%.

LANDGRADING

- ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED SEDIMENT CONTROL PLAN UNITL THEY ARE PERMANENTLY STABLISED.
- 2. ALL SEDIMENT CONTROL PRACTICES AND MEASURES SHALL BE CONSTRUCTED, APPLIED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED SEDIMENT CONTROL PLAN AND THE "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS".
- TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN AMOUNT NECESSARY TO COMPLETE FINISHED GRADING OF ALL EXPOSED AREAS.
- 4. AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL.
- 5. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF FOUR INCHES PRIOR TO PLACEMENT OF TOPSOIL.
- ALL FILL SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
- 7. ALL FILL TO BE PLACED AND COMPACTED IN LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
- 8. EXCEPT FOR APPROVED LANDFILLS, FILL MATERIAL SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILL.
- FROZEN MATERIALS OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED IN FILL.
- 10. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES. 11. ALL BENCHES SHALL BE KEPT FREE OF SEDIMENT DURING ALL PHASES OF DEVELOPMENT.
- 12. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAINAGE OR OTHER APPROVED METHOD.
- 13. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING

GENERAL NOTES:

1. CONSTRUCTION IS TO PROCEED IN ACCORDANCE WITH THE CONSTRUCTION PHASING SCHEDULE SUPPLIED BY THE CONTRACTOR OR SHOWN ON PLANS AND REPLECTED IN STORMWATER POLLUTION PREVENTION PLAN. ALL ELEMENTS OF EASEMENTS AND RIGHT-OF-WAY CONSTRUCTION ARE TO BE COMPLETED PRIOR TO BEGINNING THE NEXT CONSTRUCTION HASE. THESE ELEMENTS INCLUDE ALL UTILITY INSTALLATION, THE BASE COURSE OF ASPHALT, PAVING, AND ESTABLISHING VEGETATIVE COVER ON ALL OTHER R.O.W. AREAS AND ANY OTHER AREAS DISTURBED BY CONSTRUCTION, OTHER ACTIVITIES, DURING THE FRAMES OUTSIDE THE GROWING SEASON, OTHER METHODS OF SOIL STABLIZATION (SUCH AS CRUMPED IN STRAW MULCH, JUTE MESH, EXCLESIOR MATTING) WILL BE USED UNTIL TIME WHEN VEGETATIVE COVER CAN BE ESTABLISHED.

2. IMMEDIATELY FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES IN ANY PORTION OF THE SITE, PERMANENT VEGETATION SHALL BE ESTABLISHED ON ALL EXPOSED SOILS, WHEN CONSTRUCTION ACTIVITY IS TEMPORARY DELAYED OR PAUSES FOR PERIODS OF THREE DAYS OR MORE ON ANY PORTION OF THE SITE ALL EXPOSED SOILS SHALL BE STABILIZED WITH TEMPORARY MULCHED GRASS COVER (ANNUAL RYE GRASS) OR SEASON NOT PERMITTING CRIMPED IN STRAM MULCH, JUTP MESS HOR OTHER SUITABLE SOIL STABILIZET ON METHOD APPROVED BY PROFESSIONAL RESPONSIBLE FOR PROJECTS STORNWARER POLLUTION PREVENTION PLAN.

3. IN SOME INSTANCES ESTABLISHING VEGETATIVE COVER WILL BE NECESSARILY DELAYED OVER PORTIONS OF THE SITE WHILE CONSTRUCTION IS UNDERWAYD. DURING THESE TIMES SEDIMENT CONTROL MEASURES WILL BE EMPLOYED TO PREVENT SEDIMENT FROM LEAVING SITE. VEGETATION IS TO BE ESTABLISHED AS SOON AS IT IS PRACTICAL IN THESE AREAS.

- 4. THE SEDIMENT AND EROSION CONTROL MEASURES DETAILED ON THIS SHEET SHALL BE IN PLACE PRIOR TO CONSTRUCTION START-UP FOR EACH CONSTRUCTION PLASE. THESE MEASURES CONSIST OF ROCK CHECK DAMS, BLIT FENCES, GRASSED WATERWAYS, PIPED SLOPE DRAIN, PERINATER DIKE OR SWALES, AND STABILIZED CONSTRUCTION ENTRANCES. ONCE CONSTRUCTED, ALL HEASURES SHALL BE PROPERLY MAINTAINED AND/OR REPLACED AS INCESSARY, SLIT FENCE TO BE REMOVED ONCE VEGETATION, PLANNED STRUCTURES AND PAVEMENT ARE IN PLACE.
- 5. TEMPORARY EROSION CONTROL PROTECTION BY MULCHING UNDER MUST BE CARRIED OUT AS FILL IS PROGRESSED TO PREVENT CONTAMINATION OF ON AND OFF SITE WATERS, PLACEMENT OF JUTE MESH OVER MULCH, CRIMPING IM MULCH, OR USE OF APPROVED TACKIFIER IS NECESSARY TO PREVENT REDISTRIBUTION OF AND LOSS OF MULCH COVER DUE TO WIND.
- 6. TRIMMED FILL SLOPES SHALL HAVE PERMANENT VEGETATIVE COVER ESTABLISHED AS SOON AS SLOPE GRADING IS UP TO FINAL SUBGRADE, IF THE FILL IS TRIMMED "OUT-O'S-ESSON", CANNOT BE SROUGHT TO SUBGRADE, OR FINAL TRIM CANNOT BE OBTAINED WITHIN A 7-DAY TIME PERIOD TEMPORARY PROSIDIO CONTROL BY MULCHING MUST BE PIACED. COMPLETE COVER SHALL BE ESTABLISHED USING TACKED MULCH OR SUBGRADE, OF THE STABLISHED USING TACKED MULCH OR SUBGRADE, PERMANERY VEGETATIVE COVER SHALL BE ESTABLISHED SHALL BE STABLISHED TO SOLL SUBFACES, PERMANERY VEGETATIVE COVER SHALL BE STABLISHED AT THE EARLIEST POSSIBLE DATE IN THE FOLLOWING SEEDING SEASON.

7. WHEN 40' OF CUT SLOPE HAS BEEN COMPLETED, THAT PORTION OF THE SLOPE SHALL BE TRIMMED AND PERMANENT VEGETATIVE COVER ESTABLISHED BEFORE EARTHWORK PROGRESSES FUNTHER ON SLOPE. IF THE FILL IS TRIMMED 'OUT-OF-SEASON', CANNOT BE BROUGHT TO SUBGRADE, OR FINAL TRIM CANNOT BE OBTAINED WITHIN A 7-DAY TIME PERIOD TEMPORARY EROSION CONTROL BY MILCHING MUST BE PLACED. COMPLETE COVER SHALL BE ESTABLISHED USING TACKED MULCH OR APPROVOSE DROSION CONTROL HETHOD WHICH COVERS ALL EXPOSED SOIL SURFACES. PERMANENT VEGITATIVE COVER SHALL BE STABLISHED AT THE EARLIEST POSSIBLE DATE IN THE FOLLOWING SEEDING SEASON.

8. WHEN TEMPORARY DITCH STABILIZATION WITH SEEDING & HULCHING OR SOD PLACEMENT CANNOT BE COMPLETED BECAUSE PAYING OR OTHER CONFLICTION CONSTRUCTION OPERATIONS, THE ESTRABLISHERT OF VEGETATIVE COVER SHALL BE COMPLETED TO THE TOP OF THE DITCH BACKSLOPE. DITCH SHALL BE IMPEDIATELY STABILIZED UPON COMPLETION OF CONFLICTING CONSTRUCTION OPERATIONS.

- 9. PLANNING AND PHASING OF CONSTRUCTION OPERATIONS SHALL MINIMIZE THE AREA DISTURBED AT ANY ONE TIME AS WELL AS THE TOTAL SITE AREA
- 10. DAMAGE TO SURFACE WATERS RESULTING FROM EROSION AND SEDIMENTATION SHALL BE PREVENTED BY STABILIZATION OF ALL DISTURBE AREAS BY ESTABLISHING TEMPORARY REOSION AND SEDIMENT CONTROL HEASURES THROUGHOUT THE COURSE OF CONSTRUCTION AND THE ESTABLISHENT OF PERMANENT STABILIZATION FOR ALL DISTURBED AREAS UPON COMPLETION OF CONSTRUCTION WITHIN EACH SUBAREA OF SITE SEDIMENTS FROM SITE SHALL BE REMOVED STORNWATER RUNOFF BEFORE
- 11. INSOFAR AS PRACTICABLE, EXISTING VEGETATION SHALL BE PRESERVE SITE PREPARATION AND CONSTRUCTION ACTIVITIES SHALL BE PLANNED TO MINIMIZE THE AREA AND DURATION OF SOIL DISTURBANCE. ALL HEALTHY TREES OF DESTRUBLE SPECIES ARE TO BE PROTECTED PROM DANAGE. ALL UNINCESSARY REMOVAL OF HEALTHY TREES AND NATIVE VEGETATION SHA
- 12. PERMANENT TRAFFIC CORRIDORS SHALL BE ESTABLISHED AND "ROUTES OF CONVENIENCE" SHALL BE STRICTLY AVOIDED. CONSTRUCTION TRAFFIC SHALL NOT CROSS STREAMS, DITCHES OR WAYER COURSES EXCEPT AT SUITABLE OR PERMITTED CROSSING FACILITIES, AND SHALL NOT OPERATE UNNECESSARILY WITHIN DARIFAGE COVEYANCES OR WITHOUT PERMIT WITHIN WATERWAYS.

13. TOPSOIL AND FILL THAT IS TO REMAIN STOCKPILED ON-SITE FOR PERIODS GREATER THAN 7-DAYS SHALL BE STABILIZED BY SEEDING AND MULCHING. PRIOR TO SEEDING AND MULCHING THE STOCKPILED MATERIAL SHALL BE GRADED TO FACILITATE CONVENTIONAL PRACTICES OF SEEDING, MULCHING AND MULCH ANCHORING. IN NO CASE SHALL ERODABLE MATERIALS BE STOCKPILED WITHIN 25 FEET OF ANY STREAM, WATER COURSE, DITCH, WATER CONVEYANCE, OR OTHER SURFACE WATER.

14. SILT FENCE CONTAINMENT SHALL BE CONSTRUCTED AROUND PERIMETER OF ALL STOCKPILES THAT ARE TO REMAIN EXPOSED FOR PERIODS OF 1-DAY TO 7-DAYS, PERIMETER SILT FENCE CONTAINMENT SHALL BE ANCHORED AND MAINTAINED IN GOOD CONDITION UNTIL STOCKPILES ARE REMOVED AND STOCKPILING AREAS ARE BROUGHT TO FINAL GRADE AND PERMANENTLY STABILIZED.

15. * USE THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL." MANUAL DATED AUGUST 2005, WHERE PLANS OR APPROVED STORM WATER POLLUTION PREVENTION PLAN DISAGREE OR ARE AMBIGUOUS.

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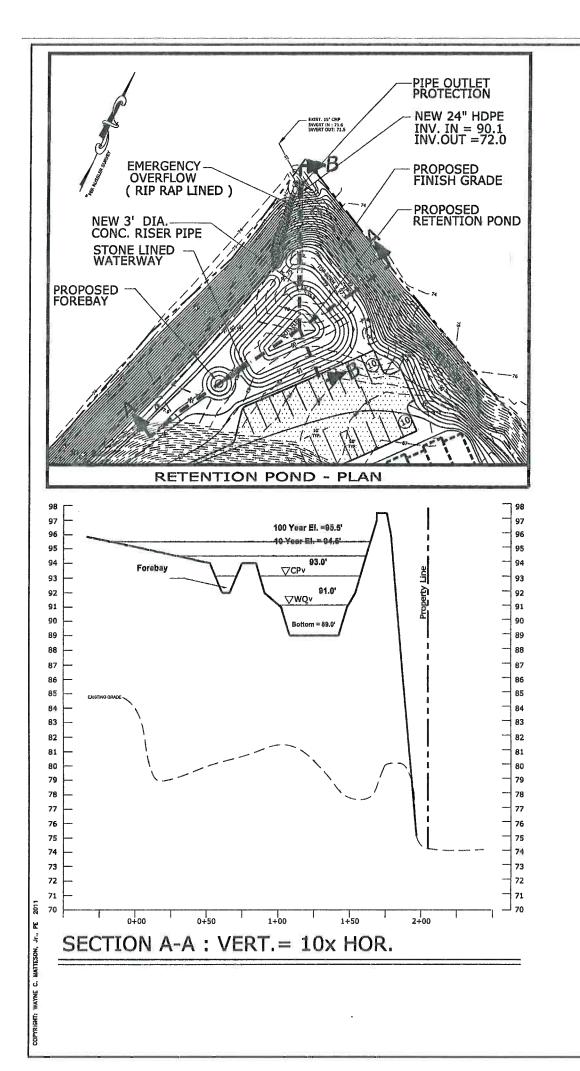
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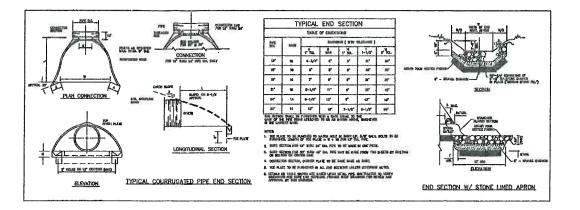
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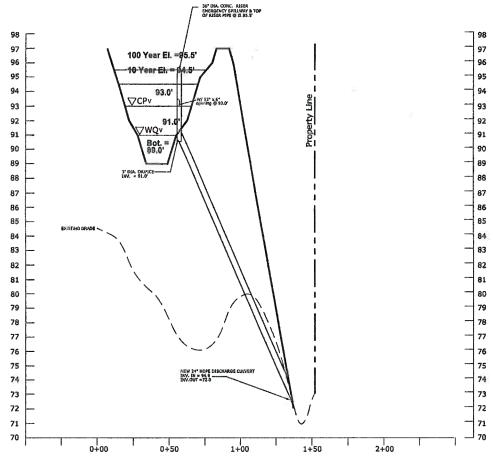
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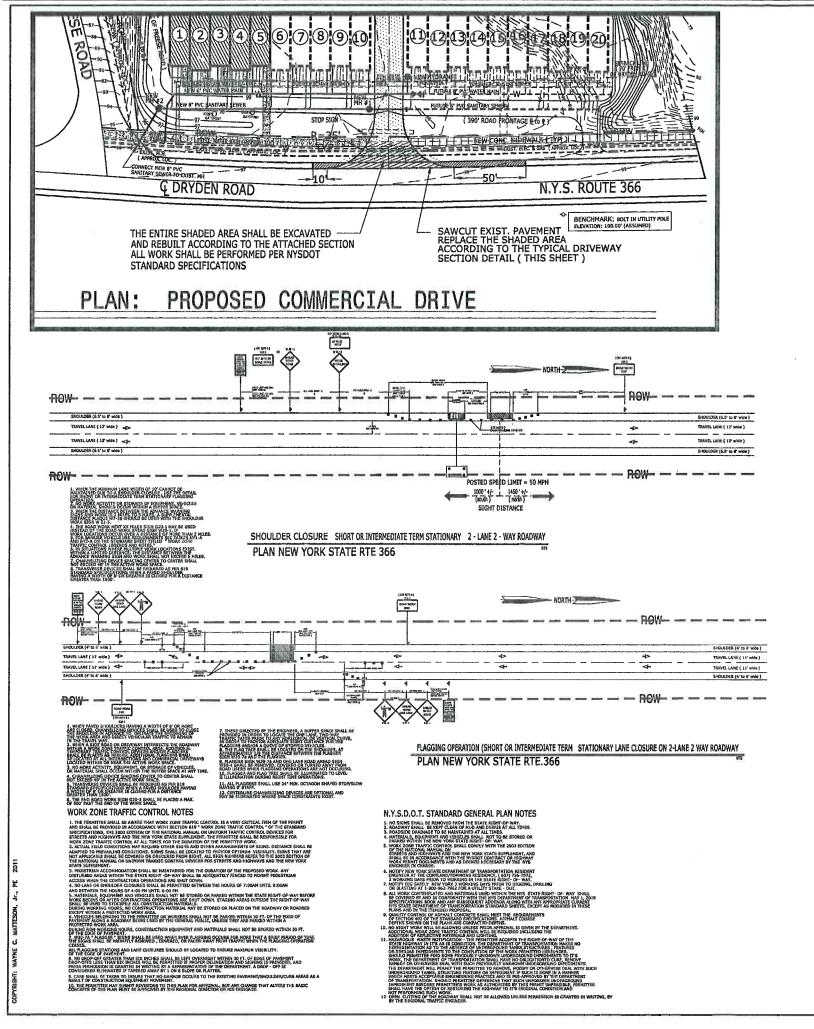


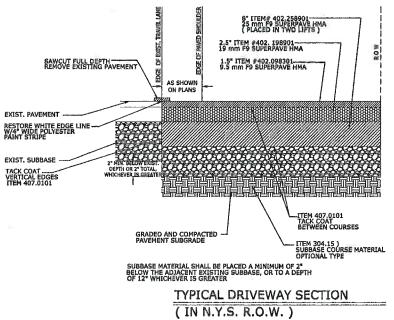
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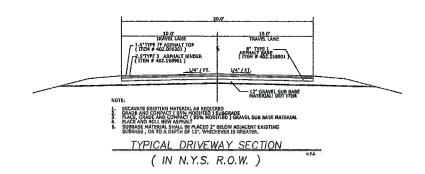
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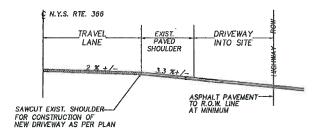


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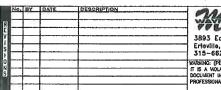








DRIVEWAY PROFILE



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Maintenance & Protection of Traffic Pla

S-7

TABLE NY1-A BARRIER VEHICLE USE REQUIREMENTS LONG TERM, INTERMEDIATE TERM, AND SHORT TERM STATIONARY CLOSURES

						100.000		
% # %			USE REQUIREMENTS 4,5					
CLOSURE TYPE		EXPOSURE CONDITION 1	FREEWAY	NON FREEWA PRECONSTRU	Y CTION POSTED	SPEED LIMIT		
			PREEWAI	>45 MPH	35-40 MPH	< 30 MPH		
		WORKERS ON FOOT OR IN VEHICLES EXPOSED TO TRAFFIC	REQUIRED 3	REQUIRED 3	REQUIRED 3	OPTIONAL ²		
LANE CLOSUF	RE	NON- TRANSVERSABLE HAZARD OE, EQUIPMENT, MATERIALS, EXCAVATIONS ONLY NO WORKERS EXPOSED	REQUIRED 3	REQUIRED 3	OPTIONAL ²	OPTIONAL ²		
	LIDE	WORKERS ON FOOT OR IN VEHICLES EXPOSED TO TRAFFIC	REQUIRED 3	REQUIRED 3	OPTIONAL ²	OPTIONAL ²		
SHOULDER CLOS	oukt	NON- TRANSVERSABLE HAZARD OE, EQUIPMENT, MATERIALS, EXCAVATIONS ONLY NO WORKERS EXPOSED	REQUIRED 3	OPTIONAL 2	OPTIONAL ²	OPTIONAL ²		

1. THE EXPOSURE CONDITIONS DESCRIBED IN TABLE NY1-A ASSUMES THERE IS NO POSITIVE PROTECTION (TEMPORARY TRAFFIC BARRIER) PRESENT. WHERE WORKERS OR HAZAROS ARE PROTECTED BY A TEMPORARY TRAFFIC BARRIER, BARRIER VEHICLES ARE NOT REQUIRED.

2. WHERE THE REQUIREMENT IS "OPTIONAL" EITHER A BARRIER VEHICLE OR THE STANDARD LONGITUDINAL BUFFER SPACE (TABLE 6C-2) SHALL BE PROVIDED.

3. REQUIREMENTS SHALL INCLUDE PROVIDING A SEPARATE BARRIER VEHICLE FOR EACH CLOSED LANE AND EACH CLOSED PAVED SHOULDER O'OR GREATER IN WIDTH. IF THE WORK SPACE MOVES WITHIN THE STATIONARY CLOSURE, THE BARRIER VEHICLE SHALL BE REPOSITIONED ACCORDINGLY. BARRIER VEHICLES PROTECTING NON-TRANSVERSABLE HAZARDS, SHALL REMAIN IN PLACE DURING BOTH WORKING AND NON-WORKING HOURS UNTIL THE HAZARDS NO LONGER EXISTS. EXCEPTIONS TO THESE REQUIREMENTS MAY BE MADE, AS APPROVED BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE WHERE BARRIER VEHICLE PLACEMENT WOULD BE INEFFECTIVE OR WOULD INTERFERE WITH THE SAFE OPERATION OF TRAFFIC.

OPERATION OF TRAFFIC.

4. BARRIER VEHICLES ARE NOT REQUIRED FOR MILLING AND/OR PAVING OPERATIONS, BUT THE STANDARD LONGITUDINAL BUFFER SPACE (TABLE 6C-2) SHALL BE PROVIDED.

5. BARRIER VEHICLES ARE NOT REQUIRED FOR FLAGGING OPERATIONS, BUT THE STANDARD LONGITUDINAL BUFFER SPACE (TABLE 6C-2) SHALL BE PROVIDED.

	TABLE N SHADOW VEHICLI MOBILE CL	/1 - B E USE REQUI OSURES	REMENTS		
			USE REQUI	REMENTS	
CLOSURE TYPE	EXPOSURE CONDITION	FREEWAY	NON FREEWA PRECONSTRU	NY ICTION POSTEI	SPEED LIMIT
		INGENA	>45 MPH	35-40 MPH	< 30 MPH
LANE CLOSURE	WHEN ANY WORKER, VEHICLE, OR OTHER HAZARD IS EXPOSED TO TRAFFIC	REQUIRED 2,4	REQUIRED 2,4	REQUIRED 2,4	2,4 REQUIRED
SHOULDER CLOSURE	WHEN ANY WORKER, VEHICLE, OR OTHER HAZARD IS EXPOSED TO TRAFFIC	REQUIRED 2,4	REQUIRED 2,4	REQUIRED 2,4	REQUIRED 2,4

1. A MOBILE CLOSURE SHALL BE USED FOR ANY WORK ACTIVITY THAT MOVES CONTINUOUSLY OR INTERMITTENLY ALONG THE TRAVELED WAY OR SHOULDER SLOWER THAN THE PREVAILING SPEED OF TRAFFIC. CHANNELIZING DEVICES ARE NOT USED FOR MOBILE CLOSURES.

2. SHADOW VEHICLES SHALL BE COUPPED WITH AN APPROVED REAR MOUNTED ATTENUATOR (TRUCK MOUNTED OR TRAILER MOUNTED) FOR THE FOLLOWING MOBILE CLOSURES: LANE CLOSURES ON FREEWAYS, LANE CLOSURES ON NON-FREEWAY ROADWAYS HAVING A PRE-CONSTRUCTION POSTED SPEED LIMIT OF 35 MPH OR MORE, SHOULDER CLOSURES ON REREWAYS, AND SHOULDER CLOSURES ON NON-FREEWAY ROADWAYS HAVING A PRE-CONSTRUCTION SPEED LIMIT OF 45 MPH OR MORE.

3. FOR MOBILE LANE CLOSURES ON NON-FREEWAY ROADWAYS HAVING A PRE-CONSTRUCTION POSTED SPEED LIMIT OF 30 MPH OR LESS AND MOBILE SHOULDER CLOSURES ON NON-FREEWAY ROADWAYS HAVING A PRE-CONSTRUCTION SPEED LIMIT OF 40 MPH OR LESS, SHADOW VEHICLES ARE NOT REQUIRED TO BE EQUIPPED WITH A REAR MOUNTED ATTENUATOR.

A A SHADOW VEHICLE IS USED TO PROTECT EXPOSED WORKERS (ON FOOT OR IN A VEHICLE) AND SHALL BE REQUIRED FOR ALL MOBILE CLOSURES. SHADOW VEHICLE REQUIREMENTS SHALL INCLUDE PROVIDING A SEPARATE SHADOW VEHICLE FOR EACH CLOSED LANE AND EACH CLOSED PAVED SHOULDER 8° OR GREATER IN WIDTH. ADDITIONAL SHADOW VEHICLES MAY BE REQUIRED TO PROMOTE THE SAFE OPERATION OF TRAFFIC AND THE INCREASED PROTECTION OF EXPOSED WORKERS, AS DIRECTED BY THE REGIONAL DIRECTOR OR HIS/HER DESIDNEE.

TABL	TABLE GH-4 FORMULAS FOR DETERMINING TAPER LENGTHS						
SPEED LIMIT (S) (MPH)	TAPER LENGTH (L) FT.	I - TARER LENGTH					
(40 MPH) OR LESS	L=WS ² /60	L = TAPER LENGTH W = WIDTH OF OFFSET (FT.) S = PRECONSTRUCTION POSTED SPEED LIMIT (MPH)					
(45 MPH) OR MORE	L=WS	(

STANDARD TAPER LENGTHS

	STANDARD TALES ELECTION									
LATERAL SHIFT OF TRAFFIC		TEMPO	RARY TR	AFFIC C	ONTRO	ZONE	POSTED	LIMIT		
FLOW PATH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH
4	45	60	85	110	180	200	220	240	260	280
5	55	75	105	135	225	250	275	300	325	350
6	65	90	125	160	270	300	330	360	390	420
7	75	105	145	190	315	360	385	420	455	490
8	85	120	165	215	360	400	440	480	520	560
9	95	135	185	240	405	450	495	540	585	630_
10	105	150	205	270	450	500	550	600	650	700
11	115	165	225	295	495	550	605	660	715	770
12	125	180	245	320	540	600	660	720	780	840

TABLE 6C-2 LONGITUDINAL BUFFER SPACE

TABLE NY2-A PLACEMENT DISTANCE FOR BARRIER VEHICLES

2001

2001

165

TABLE NY2-B

PLACEMENT DISTANCE FOR SHADOW VEHICLES

MAX.

330'

2801

200'

18000 LBS MAX.

100'

100'

AS DEFINED IN NYSDOT STANDARD SPECIFICATION 619:

BARRIER VEHICLE- VEHICLE USED FOR STATIONARY SHOULDER CLOSURES, LANE CLOSURES, AND OTHER STATIONARY WORK ZONES.

18000 LI

230'

100'

AS DEFINED IN NYSDOT STANDARD SPECIFICATION 619:

MINIMUM DISTANCE SHOWN REFLECTS THE ACTUAL ROLL AHEAD DISTANCE FROM MANUFACTURED.

SHADOW VEHICLE - VEHICLE USED FOR MOBILE OR SHORT DURATION WORK OPERATIONS.

180'

MINIMUM DISTANCE SHOWN REFLECTS THE ACTUAL ROLL AHEAD

DISTANCE

PLACEMENT DISTANCE (FT.)

MIN.

100

85'

PLACEMENT DISTANCE (FT.)

100'

85'

50'

24000 LBS

200

200

SHADOW VEHICLES

50'

MAX.

2001

165

100

BARRIER VEHICLES

PRECONSTRUCTION POSTED SPEED LIMIT MPH

PRECONSTRUCTION

45-55

<45

DISTANCE FROM MANUFACTURER

PRECONSTRUCTION

POSTED SPEED LIMIT

45-55

<45

POSTED SPEED LIMIT

TABLE 6C-3 TAPER LENGHT FOR TEMPORARY TRAFFIC CONTROL ZONES

TYPE OF TAPER	TAPER LENGTH L
MERGING TAPER	L.
SHIFTING TAPER	L/2
SHOULDER TAPER	L/3
ONE-LANE TWO-WAY TRAFFIC TAPER	100 FT. MAX.
DOWNSTREAM TAPER	100 FT. PER LANI

TABLE 619-4

FLARE RATE FOR POSI	TIVE BARRIER
	POSTED SPEED LIMIT
TYPE OF POSITIVE BARRIER	30 40 50 55 65 MPH MPH MPH MPH MPH
TEMPORARY CONCRETE BARRIER	8:1 11:1 14:1 16:1 20:1
BOX BEAM OR HEAVY POST CORRUGATED BEAM	7:1 9:1 11:1 12:1 15:1

ADVANCE WARNING SIGN SPACING

		,,,,,,			
	DISTANCE B	ETWEEN SIG	SIGN LEGEND		
ROAD TYPE	A (FT.)	B (FT.)	C (FT.)	XX	YY
URBAN < 30 MPH	100	100	100	AHEAD	AHEAD
URBAN 35-40 MPH	200	200	200	AHEAD	AHEAD
URBAN > 45 MPH	350	350	350	1000'	AHEAD
RURAL	500	500	500	1500'	1000'
EXPRESSWAY/FREEWAY	1000	1500	2540	1 MILE	1/2 MILE

PRECONSTRUCTION POSTED SPEED LIMIT

Urban: Meets more than 1 of the following criteria Sidewalks, Bicycle Usage, Curbing, Closed Drainage Systems, Driveway densities greater than 24 driveways per Mile, Minor Commercial Driveway Densities of 10 driveways per Mileor Greater Major Commercial Driveways, Numerous R.O.W. CONSTRAINTS, HIGH DENSITY OF CROSS STREETS, 85TH PERCENTILE SPEEDS OF 45 MPH OR LESS.

EXPRESSWAY: DIVIDED HIGHWAYS FOR TRAFFIC WITH FULL OR PARTIAL CONTROL OF ACCESS AND GENERALLY WITH GRADE SEPARATIONS AT MAJOR CROSSROADS

FREEWAYS/INTERSTATE: LOCAL OR INTER REGIONAL HIGH SPEED, DIVIDED, HIGH VOLUME FACILITIES WITH FULL OR PARTIAL CONTROL OF ACCESS

WORK DURATION DEFINITIONS

INTERMEDIATE TERM STATIONARY IS WORK THAT OCCUPIES A LOCATION MORE THAN ONE DAYLIGHT PERIOD UP TO 3 CONSECUTIVE DAYS, OR NIGHTIME WORK LASTING MORE THAN 1 HOUR

SHORT TERM STATIONARY IS DAYTIME WORK THAT OCCUPIES A LOCATION FOR MORE THAN 1 HOUR WITHIN A SINGLE DAYLIGHT PERIOD.

SHORT DURATION IS WORK THAT OCCUPIES A LOCATION UP TO 1 HOUR.

MOBILE IS WORK THAT MOVES INTERMITTENTLY OR CONTINUOUSLY.

	POSTED SPEED LIMIT								
TYPE OF POSITIVE BARRIER	30 MPH	40 MPH	50 MPH	55 MPH	65 MPH				
TEMPORARY CONCRETE BARRIER	8:1	11:1	14:1	16:1	20:1				
BOX BEAM OR HEAVY POST CORRUGATED BEAM	7:1	9:1	11:1	12:1	15:1				

TABLE NY6H-3

, ADYA	IVE WAI	141110 510	IN DI AC		
	DISTANCE E	ETWEEN SIG	SIGN LEGEND		
ROAD TYPE	A (FT.)	B (FT.)	C (FT.)	XX	YY
URBAN < 30 MPH	100	100	100	AHEAD	AHEAD
URBAN 35-40 MPH	200	200	200	AHEAD	AHEAD
URBAN > 45 MPH	350	350	350	1000'	AHEAD
RURAL	500	500	500	1500'	1000'
EXPRESSWAY/FREEWAY	1000	1500	2540	1 MILE	1/2 MILE

RURAL: ANY AREA NOT EXHIBITING MORE THAN ONE OF THE ABOVE CHARICTERISTICS

LONG TERM STATIONARY IS WORK THAT OCCUPIES A LOCATION MORE THAN 3 CONSECUTIVE DAYS

DESCRIPTION

Consulting Environmental Engineer
3893 Edionbrook Road
Erieville, NY 13061
315-662-7146 Cell: 607-423-4321

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THE PARTY OF THE P	SCALE:	CLIENT		ario and Otis Phillips		
	DATE: Mar. 19, 2011 PREPARED BY: MB CHECKED BY: WM	1	41 Oak Bro Ithaca , N.			
			Monkey Run Townhouse Dryden Road - NYS Rte. Town of Dryden			
		TITLE:		and Tables		
	STATUS:	SHEETI	S-8	1100		
-		-				

WORK ZONE TRAFFIC CONTROL LEGEND

ARROW PANEL CAUTION MODE

CHANNELIZING DEVICE

DIRECTION OF TRAFFIC

FLAGGER

FLAG TREE

LUMINATRE

SIGN, TEMPORARY

TEMPORARY BARRIER

TYPE 111 BARRICADE

WARNING LIGHTS

WORK SPACE

WORK VEHICLE

ARROW PANEL TRAILER OR SUPPORT CHANGEABLE MESSAGE SIGN (PVMS)

CRASH CUSHION/TEMPORARY IMPACT ATTENUATOR

DIRECTION OF TEMPORARY TRAFFIC DETOUR

PAVEMENT MARKINGS THAT SHALL BE REMOVED FOR A LONG TERM PROJECT

TRAFFIC OR PEDESTRIAN SIGNAL

TEMPORARY BARRIER WITH WARNING LIGHTS

WORK VEHICLE WITH TRUCK MOUNTED ATTENUATOR

ARROW PANEL

SYMBOL

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850

m

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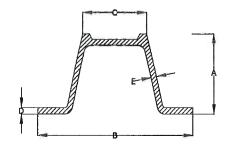
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В



		TABI	E 1 : POS	ST PROP	ERTIES (& DIMEN	SIONS		
POST SIZE	AREA (mm²)	I (mm⁴)	S (mm³)	Α	В	С	D	E I	MOMENT
2.98 kg/m	360	64 520	3200	37.2	77.8	32.5	3.1	2.7	1480 N-m
3.72 kg/m	450	86 800	4100	38.5	77.8	32.5	4.5	3.0	1890 N-m
4.09 kg/m	490	94 900	4400	39.0	77.8	32.5	5.0	3.1	2050 N-m
4.46 kg/m	540	156 500	5680 .	47.8	88.9	33.9	4.7	3.2	2580 N-m
5.96 kg/m	720	224 800	7650	50.0	88.9	33.9	6.7	3.6	3540 N-m

REDUCE MOMENT CAPACITY BY 25 % TO ACCOUNT FOR TORSION EFFECTS IN OPEN CROSS SECTION SINGLE POST INSTALLATIONS.

			2011 21.0	nro	TAE	BLE 2 : MAX	IMUM NUM	BER OF POS			VATH			
			SOIL SLOPES				SOIL DESCRIPTION							
ERTICAL								SOIL SLOPE	S-1 NON - PLASTIC (MED. TO VERY COMPACT)			S-2 NON - PLASTIC (LOOSE TO VERY LOOSE)		
5		1	4	-			525, 2	MAX. NO. OF POSTS	MIN. EMBEDMENT	SOIL PL	MAX. NO. OF POSTS	MIN. EMBEDMENT	SOIL PL	
	UNSTABLE	STEEP	MODERATE	PLAT		FLAT	3	965	NO	3	1524	YES		
	HORIZONTAL			LAP - SPLICE	MODERATE	3	1372	NO	3	1524	YES			
					STEEP	3	1524	NO	3	1524	YES			

POSTS SHALL BE PRODUCED FROM HIGH STRENGTH BILLET STEEL, GRADE 80-SP. CHEMICAL PROPERTIES OF THE STEEL SHALL CONFORM TO ASTM A-1M AND PHYSICAL PROPERTIES SHALL CONFORM TO ASTM A-499W (SEE TABLE 1)

SIGN POSTS SHALL BE PUNCHED THEIR FULL LENGTH WITH 9 mm DIAMETER HOLES ON 25 mm CENTERS

BASE POSTS SHALL BE PUNCHED WITH A MINIMUM OF THIRTY - SIX $\,9\,$ mm DIAMETER HOLES ON 25 mm CENTERS (TO ACCOMODATE OPTIONAL SOIL PLATE) WITH THE FIRST HOLE 25 mm FROM THE TOP.

BASE POSTS SHALL BE DRIVEN TO 965 mm MINIMUM EMBEDMENT (SEE TABLE 2) A MINIMUM OF 100 mm MAY PROTRUDE ABOVE THE SURROUNDING GROUND SURFACE.

POSTS SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH A-123 M.

SPLICE HARDWARE SHALL BE AS SUPPLIED OR RECOMMENDED BY THE MANUFACTURER, EITHER ZINC-PLATED PER ASTM B-633M (MINIMUM Bpm COATING THICKNESS OR CADMIUM PLATED ACCORDING TO ASTM B-766M (CLASS B).

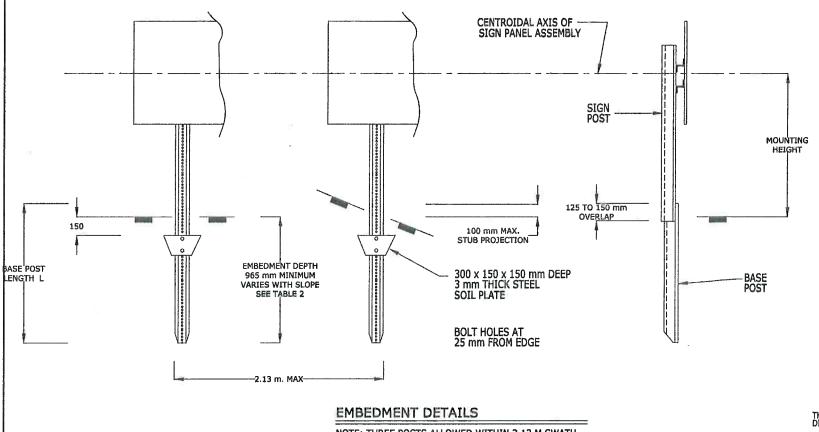
ALL GALVANIZING AND GALVANIZING REPAIRS SHALL BE DONE IN ACCORDANCE WITH; 719-01, TYPE H1.

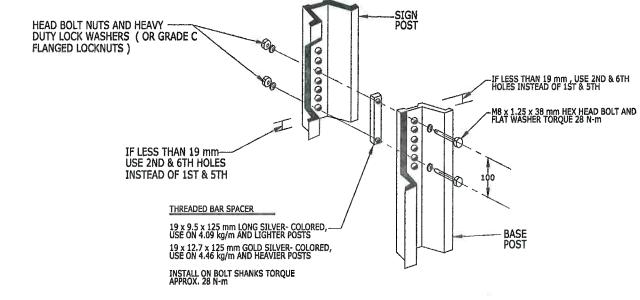
AN S-1 SOIL CONDITION SHOULD BE ASUMED. S-1 INCLUDES SANDS, GRAVELS AND SILTS (AND THEIR MIXTURES) WHICH EXIHIBIT PENETRATION VALUES OF LESS THAN 9 BLOWS PER 305 mm USING A STANDARD 136 kg DROP HAMMER AND A 457 mm FALL. SHOULDER MATERIALS ARE INCLUDED IN THIS CATEGORY.

S-2 INCLUDES UNIFORM SANDS WHICH EXHIBIT PENETRATION VALUES OF LESS THAN 9 BLOWS PER 305 mm USING A 136 kg DROP HAMMER . BLEACH SANDS ARE INCLUDED IN THIS CATEGORY.

THE GEOTECHNICAL ENGINEERING BUREAU AND THE STRUCTURES DIVISION SHOULD BE CONTACTED WHEN A POST IS TO BE PLACED IN A PLASTIC (SOFT CLAY OR ORGANIC) DEPOSIT, OR WHEN THE GROUNDWATER ELEVATION IS WITHIN THE MIMIMUM EMBEDMENT.

LAP SPLICE NUTS AND BOLTS SHALL BE M180, WITH AN ULTIMATE TENSILE STRENGTH OF 1240 MP PMIN. BASE POSTS DAMAGED OR DEFORMED IN THE SPLICE CONTRACT AREA SHALL BE REPAIRED OR REPLACED A.O.B.E. AT NO ADDITIONAL COST TO THE STATE. DRIVE CAPS ARE REQUIRED.





NOTE: THREE POSTS ALLOWED WITHIN 2.13 M SWATH

THESE DETAILS ARE SKETCH DRAWINGS AND ARE NOT TO SCALE DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED

No.	ШУ	DATE	DESCRIPTION	Consulting Environmental Enginee 3893 Eatonbrook Road Erleville, NY 13061 315-662-7146 Cell: 607-423-4321
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PARED BY:		Dryden Road - NYS Rte. 36
В	ł	Town of Dryden
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