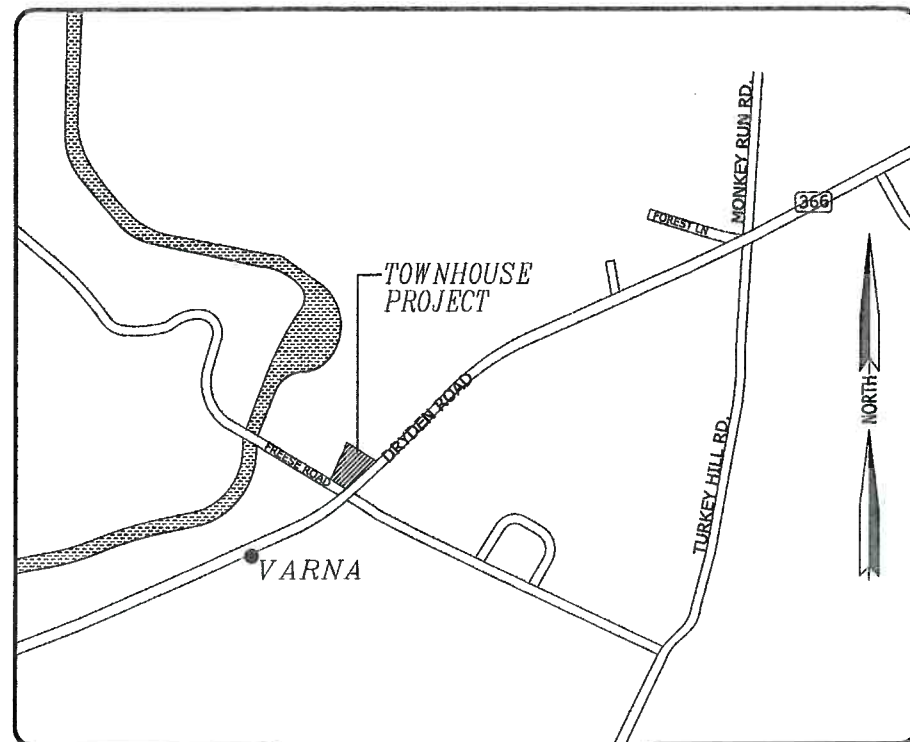


MONKEY RUN TOWNHOUSE PROJECT

DRYDEN ROAD, N.Y.S. ROUTE 366

TOWN OF DRYDEN



LOCATION MAP
DATE: MAR. 2011

DRAWING INDEX

- S-0 TITLE SHEET
- S-1 SITE PLAN
- S-2 UTILITY PLAN
- S-3 WATER AND SANITARY SEWER DETAILS & PROFILE
- S-4 EROSION AND SEDIMENT CONTROL PLAN
- S-5 EROSION AND SEDIMENT CONTROL DETAILS
- S-6 RETENTION POND DETAILS
- S-7 MAINTENANCE & PROTECTION OF TRAFFIC PLAN
- S-8 MPT NOTES & TABLES
- S-9 MATERIALS DETAILS FOR TYPE A SIGN SUPPORTS
- S-10 SITE DETAILS

PREPARED BY:

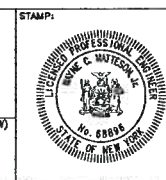
WAYNE C. MATTESON, Jr., P.E.
3893 EATONBROOK ROAD
ERIEVILLE, N.Y. 13061

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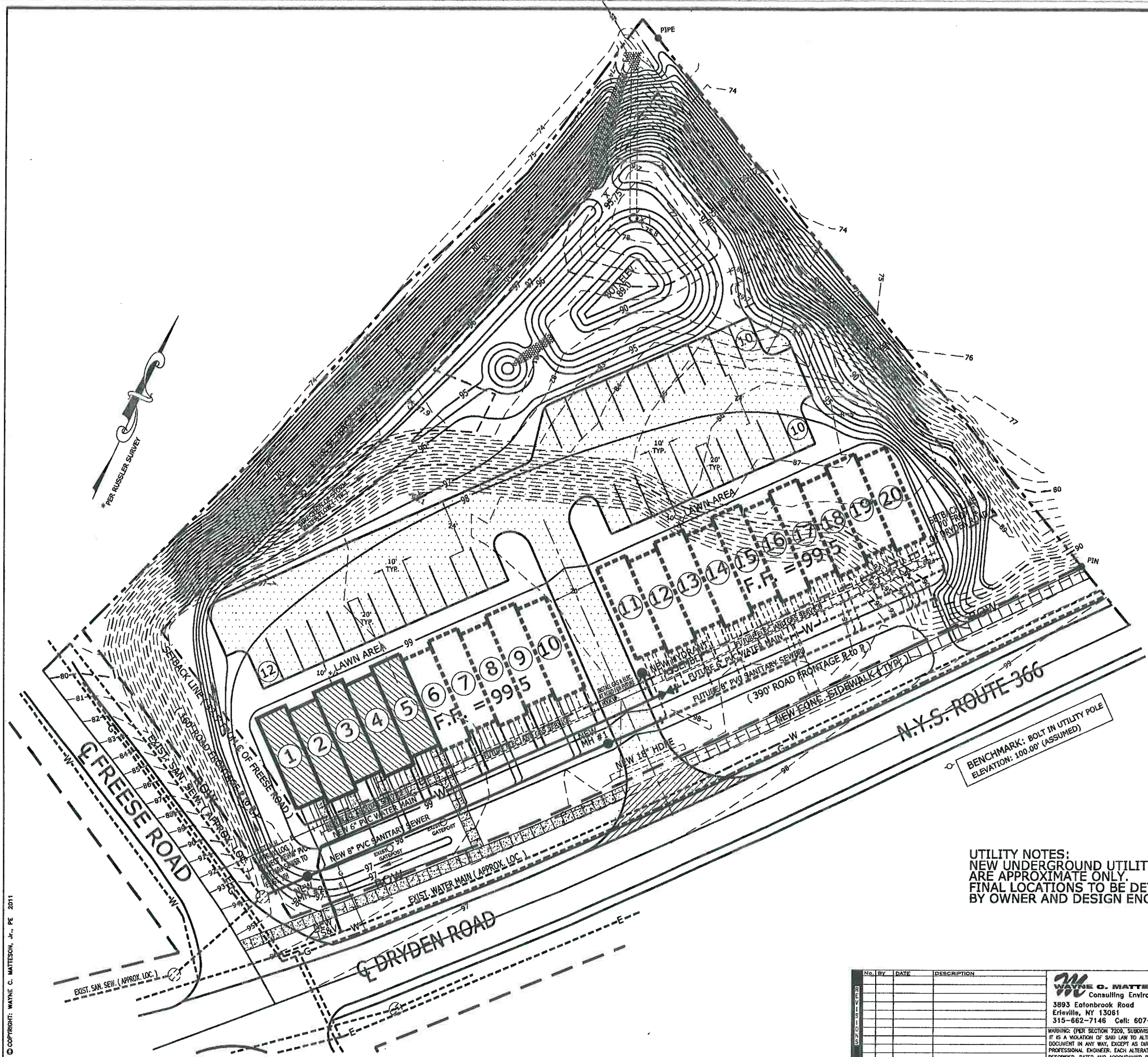
No.	BY	DATE	DESCRIPTION

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315-662-7146 Cell: 607-423-4321

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SCALE:	DATE:	CLIENT:
NTS	Mar. 19, 2011	Nick Bellisario and Otis Phillips 41 Oak Brook Drive Ithaca, N.Y.
PREPARED BY:	PROJECT:	
MB	Monkey Run Townhouse Project Dryden Road - NYS Rte. 366 Town of Dryden	
CHECKED BY:	TITLE:	
WM	Title Sheet	
STATUS:	SHEET:	
	S-0	11005



NOTES:

1. DATUM: ASSUMED.
2. THIS SURVEY WAS PERFORMED WITH APPROXIMATELY 12" OF SNOW COVER. NOT ALL SLOPE VARIATIONS AND SURFACE IMPROVEMENTS WERE VISIBLE AT THE TIME OF THE SURVEY.
3. NO TITLE RESEARCH WAS PERFORMED FOR THIS SURVEY. THE BOUNDARY LINE SHOWN IS APPROXIMATE AND WAS BASED UPON THE REFERENCE SURVEY PROVIDED BY THE OWNER OF THE PARCEL.
4. UNDERGROUND UTILITIES WERE NOT LOCATED BY THIS SURVEY.
5. BOUNDARY & TOPO TAKEN FROM A MAP PREPARED BY KLUMPP L.S. DATED MAR.10,2011 TITLED TOPOGRAPHIC SURVEY.

LEGEND:

- EXISTING MONUMENT AS SHOWN
- ⊕ UTILITY POLE
- - - - - APPROXIMATE PROPERTY LINE
- - - - - EXISTING CONTOUR
- X 79.8 SPOT ELEVATION
- - - - - DRAINAGE DITCH

ADJOINING PROPERTY OWNERS	
TAX PARCEL NO.	OWNER
53. - 1- 3.2	THOMAS BOSSACK
53. - 1- 9.2	CORNELL UNIVERSITY
53. - 1- 3.1	CORNELL UNIVERSITY
53. - 1- 3.4	NICKOLAS BELLISARIO OTIS PHILLIPS
53. - 3- 5	PENALTY BOX SPORTS
53. - 3- 4	KATHLEEN SCHLATHER PETER SARKUS
53. - 4- 1	J. MICHAEL KIMBALL LARS KELLSTROM
53. - 4- 2	J. MICHAEL KIMBALL

UTILITY NOTES:
 NEW UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE ONLY.
 FINAL LOCATIONS TO BE DETERMINED BY OWNER AND DESIGN ENGINEER.

BENCHMARK: BOLT IN UTILITY POLE
 ELEVATION: 100.00' (ASSUMED)

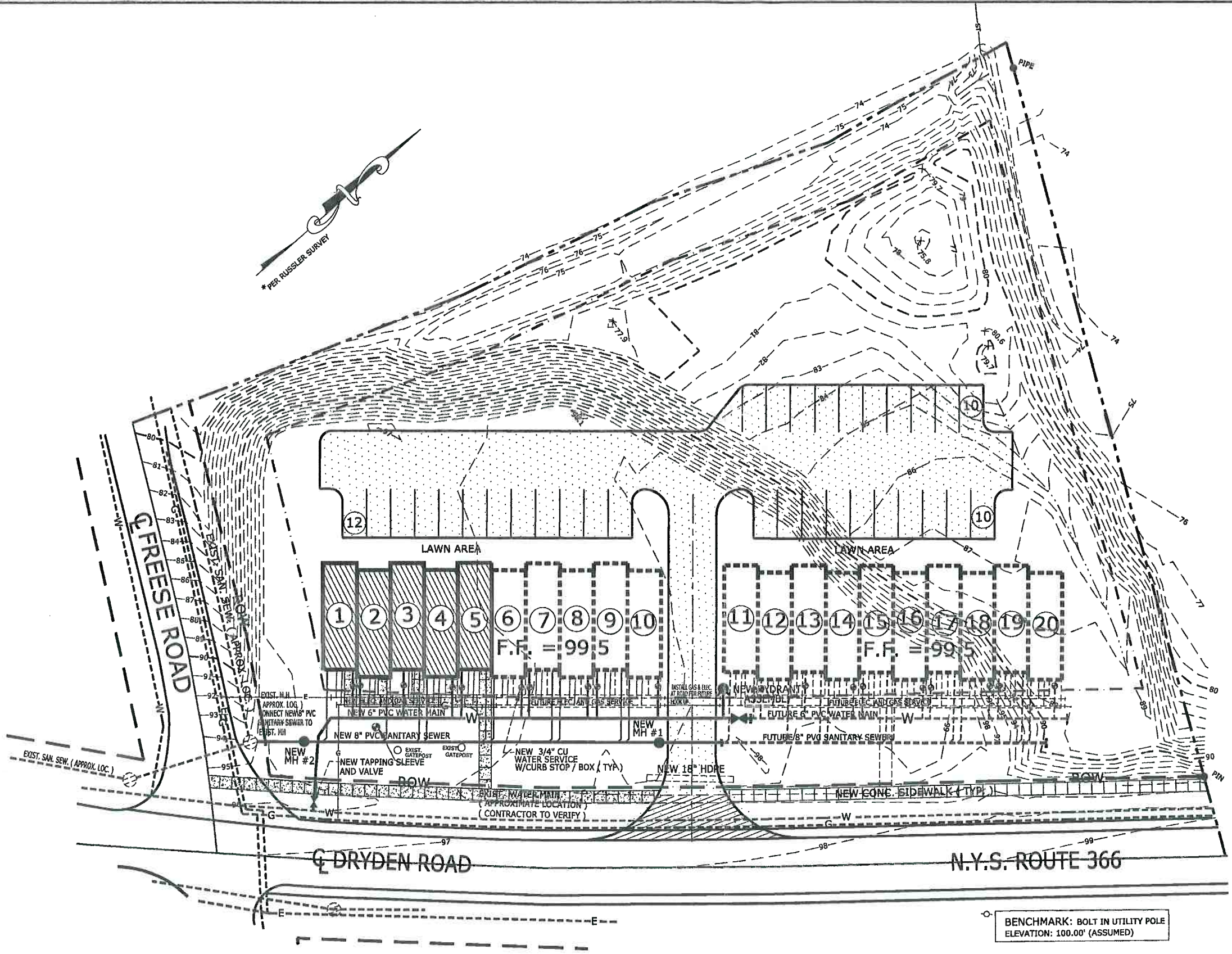
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	SCALE: 1" = 20' DATE: Mar. 19, 2011 PREPARED BY: MB CHECKED BY: WM STATUS:	CLIENT: Nick Bellisario and Otis Phillips 41 Oak Brook Drive Ithaca, N.Y. PROJECT: Monkey Run Townhouse Project Dryden Road - NYS Rte. 366 Town of Dryden TITLE: Site Plan SHEET: S-1 PROJECT NO.: 11005
--	--	--

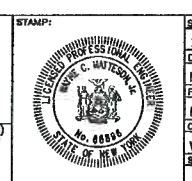


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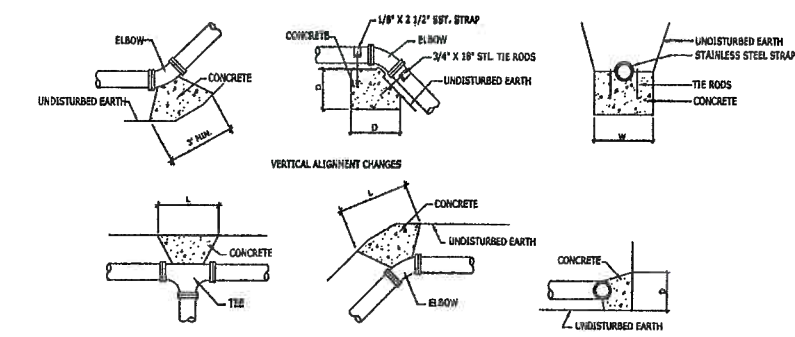
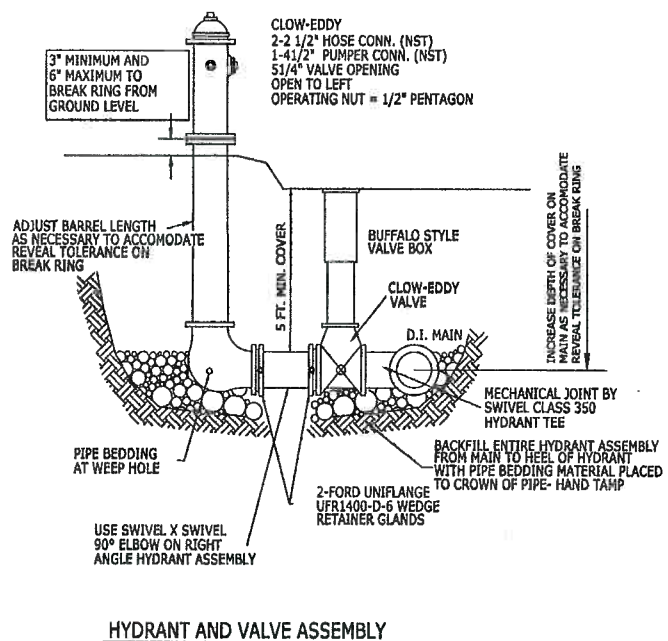
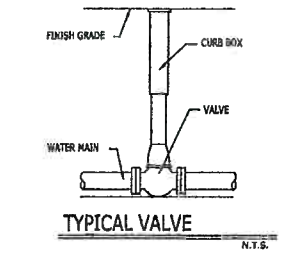
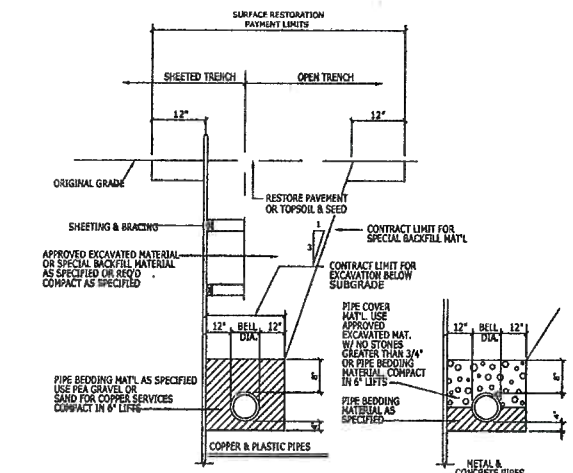
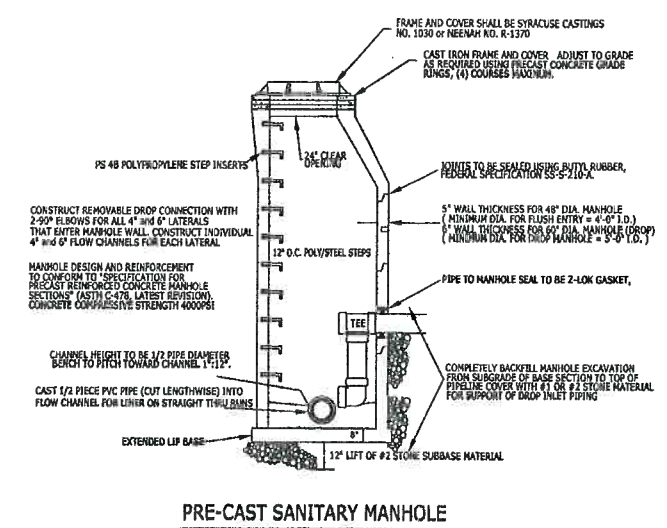
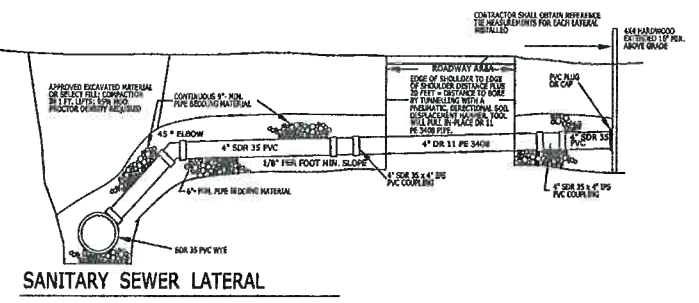
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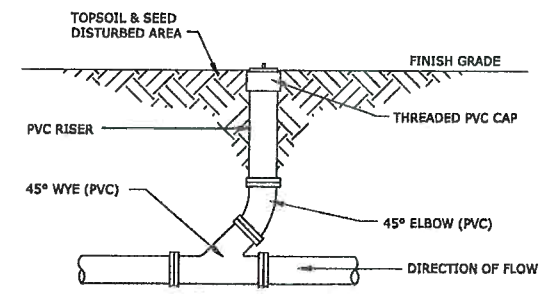
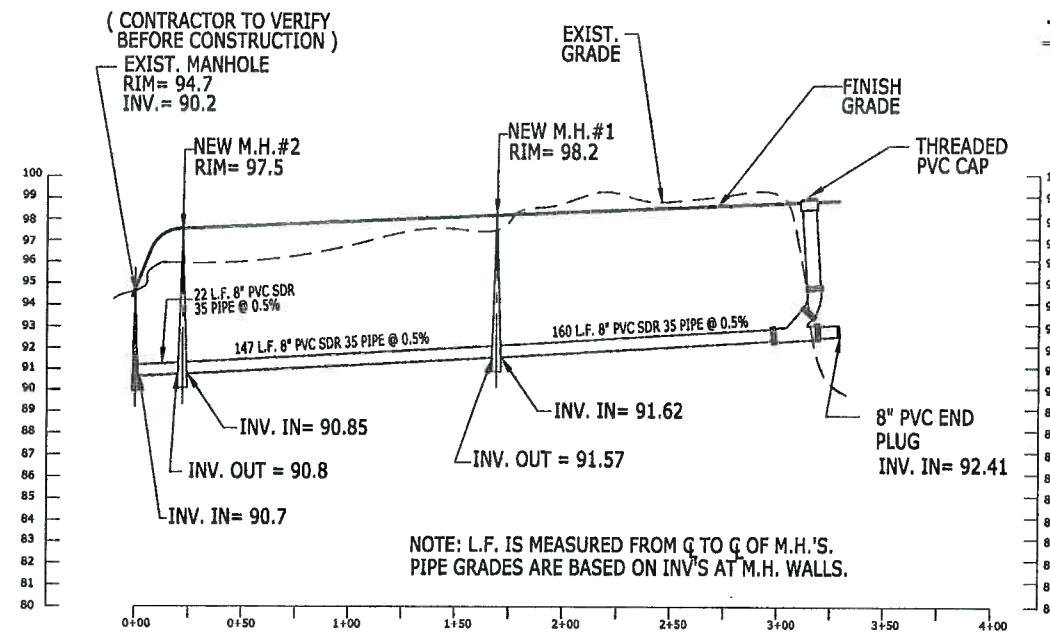
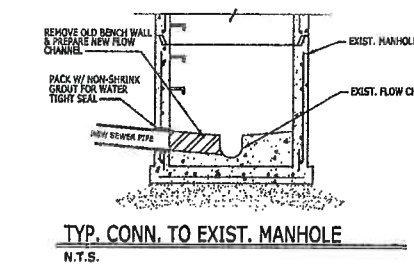
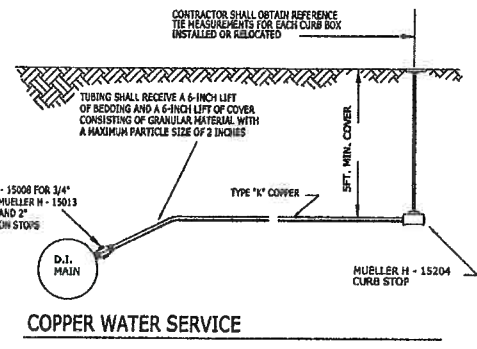
SCALE: 1" = 20'
 DATE: Mar. 19, 2011
 PREPARED BY: MB
 CHECKED BY: WM
 STATUS: S-2

CLIENT: Nick Bellisario and Otis Phillips
 41 Oak Brook Drive
 Ithaca, N.Y.
 PROJECT: Monkey Run Townhouse Project
 Dryden Road - NYS Rte. 366
 Town of Dryden
 TITLE: Utility Plan
 SHEET: S-2

WHERE 4" PVC LATERALS ARE INSTALLED ACROSS SIDEWALKS AND DRIVEWAYS, 3 FEET OF COVER SHALL BE MAINTAINED BETWEEN BOTTOM OF SHAFT AND THE INVERT OF 4" PVC LATERAL TERMINATING THE END OF LATERAL AT THE INVERT ELEVATION INDICATED.



HORIZONTAL ALIGNMENT CHANGE S				VERTICAL			
TEE	45°	22.5°	11.25°	45°	22.5°	11.25°	0°
L	D	L	D	L	D	L	D
6"	2.3	1.9	1.6	1.5	1.2	1.0	1.0
8"	3.0	2.3	2.0	1.7	1.4	1.2	1.2
10"	3.7	2.8	2.5	2.1	1.7	1.5	1.5
12"	4.4	3.4	3.0	2.5	2.0	1.8	1.8



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No. BY DATE DESCRIPTION REVISIONS	WAYNE C. MATTESON, JR., PE Consulting Environmental Engineer 3893 Eatonbrook Road Erieville, NY 13061 315-662-7148 Call: 607-423-4321		SCALE: NTS DATE: Mar. 19, 2011 PREPARED BY: MB CHECKED BY: WH STATUS:	CLIENT: Nick Bellisario and Otis Phillips 41 Oak Brook Drive Ithaca, N.Y. PROJECT: Monkey Run Townhouse Project Dryden Road - NYS Rte. 366 Town of Dryden TITLE: Water & Sanitary Sewer Details & Profile SHEET: S-3
	WARNING: (PER SECTION 7209, SUBSECTION 2, N.Y.S. EDUCATION LAW) IT IS A VIOLATION OF STATE LAW TO ALTER ANY PORTION OF THIS DOCUMENT IN ANY WAY, EXCEPT AS DIRECTED BY A LICENSED PROFESSIONAL ENGINEER. EACH ALTERATION MUST BE SPECIFICALLY			
	STATUS: S-3 11005			

STABILIZE SLOPE AREAS WITH SEED & MULCH (INSTALL EROSION CONTROL BLANKETS WHERE NECESSARY)

NOTE: ROOF TOP RUN OFF WILL BE DISPERSED ON LAWN AREAS NEAR TOWN HOUSES

NEW 3' DIA. CONC. RISER PIPE

STONE LINED WATERWAY

PROPOSED FOREBAY

EMERGENCY OVERFLOW (RIP RAP LINED)

EXIST. 18" CMP
INVERT IN: 71.6
INVERT OUT: 71.5

PIPE OUTLET PROTECTION

NEW 24" HDPE
INV. IN = 91.0
INV. OUT = 72.0

PROPOSED FINISH GRADE

PROPOSED RETENTION POND

STABILIZE SLOPE AREAS WITH SEED & MULCH (INSTALL EROSION CONTROL BLANKETS WHERE NECESSARY)

KEY

STABILIZED CONSTRUCTION ENTRANCE



SCE

STONE CHECK DAM



SILT FENCE



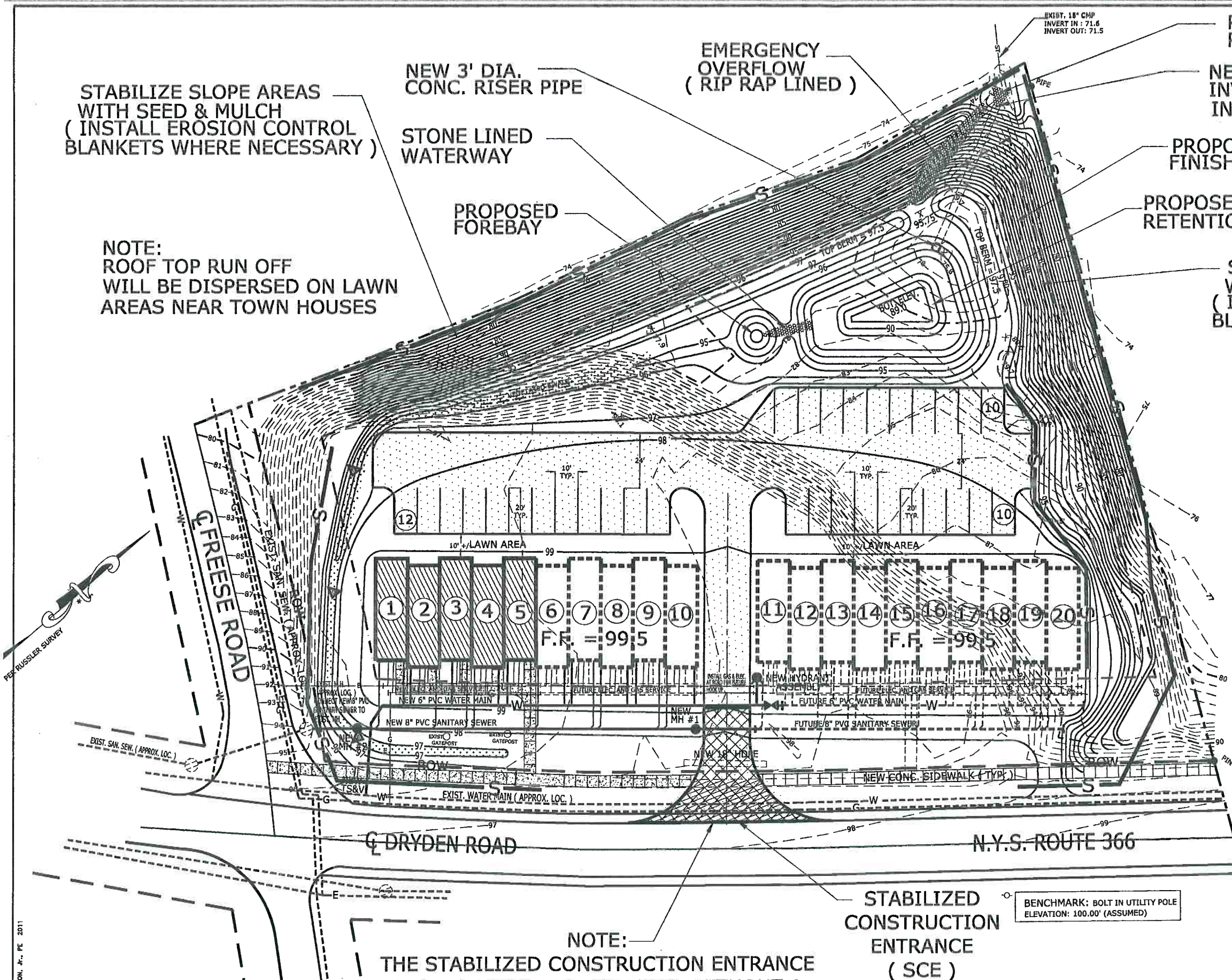
STONE LINED WATERWAY



PIPE OUTLET PROTECTION



VEGETATED SWALE



NOTE: THE STABILIZED CONSTRUCTION ENTRANCE SHALL NOT BE CONSTRUCTED WITHOUT A VALID NYSDOT HIGHWAY WORK PERMIT

STABILIZED CONSTRUCTION ENTRANCE (SCE)

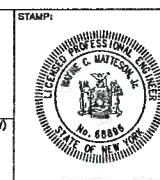
BENCHMARK: BOLT IN UTILITY POLE
ELEVATION: 100.00' (ASSUMED)

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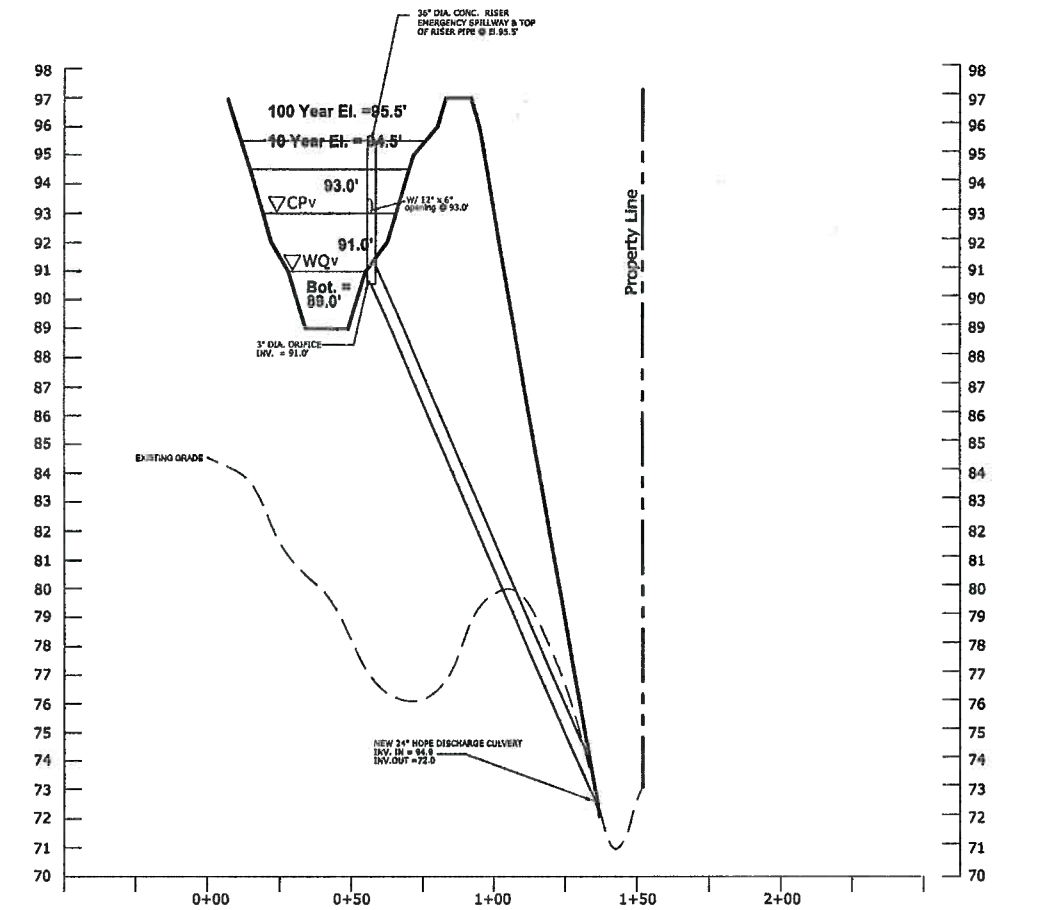
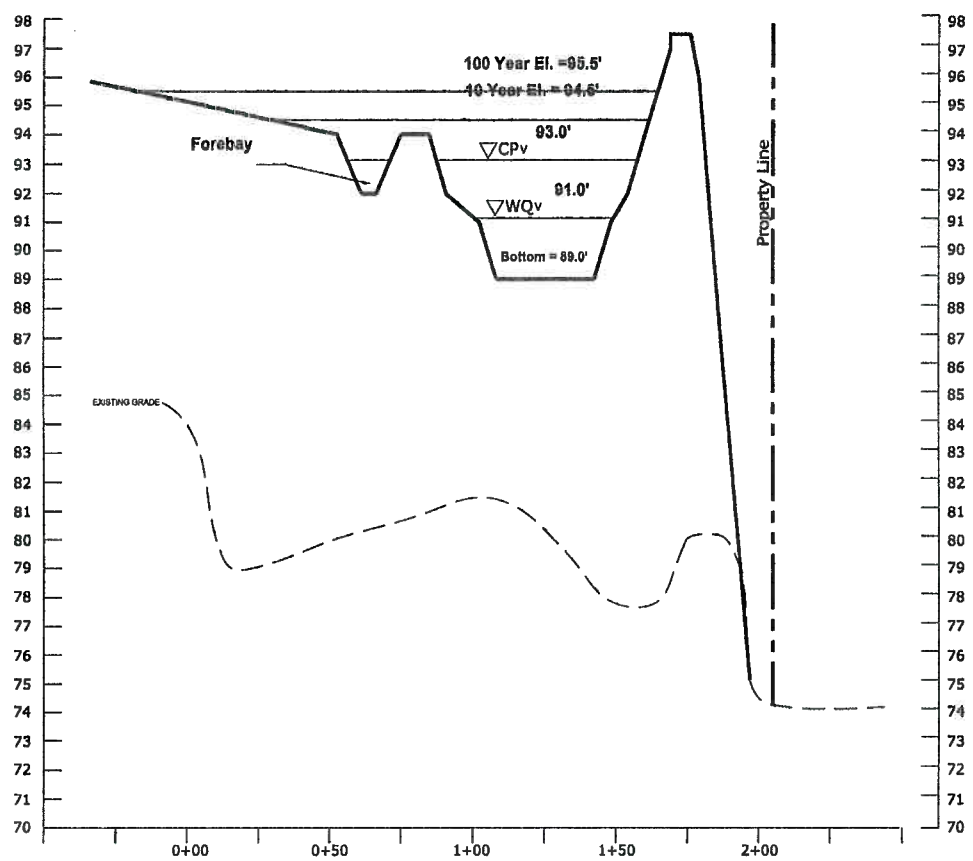
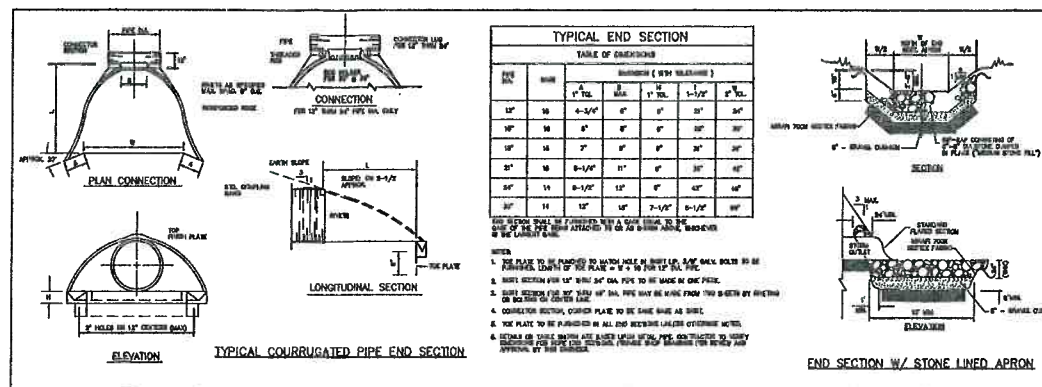
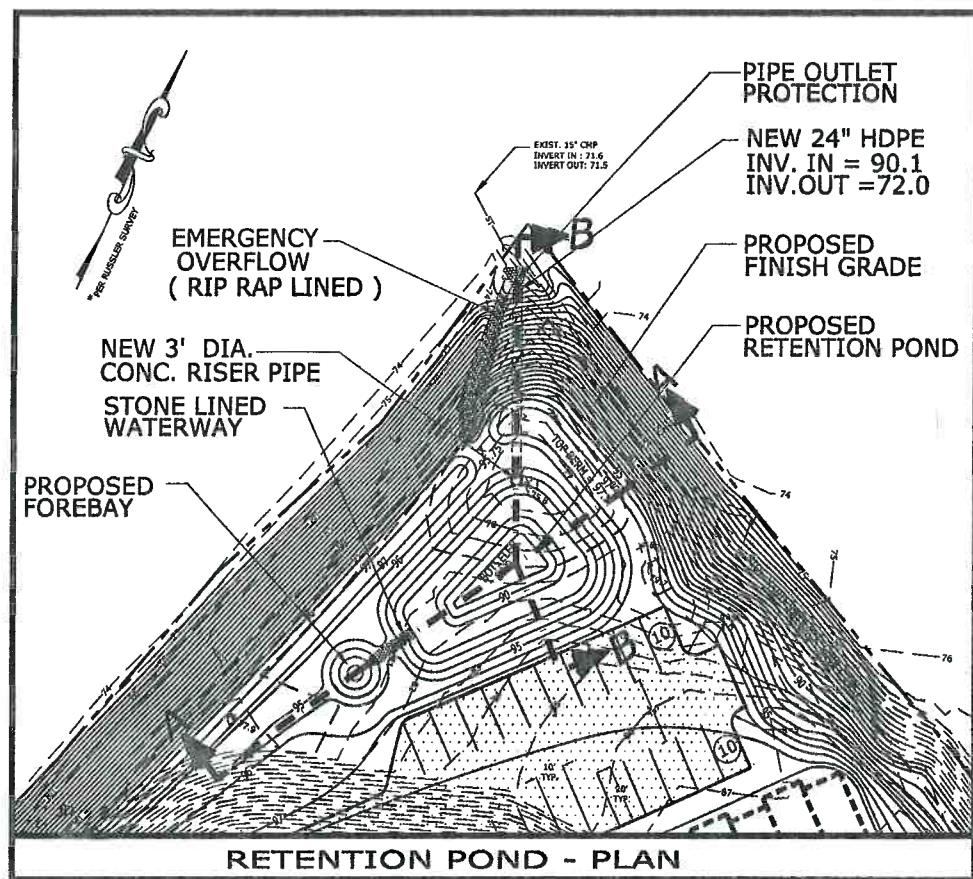
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SCALE: 1" = 20'	DATE: Mar. 19, 2011	PROJECT: Monkey Run Townhouse Project	CLIENT: Nick Bellisario and Otis Phillips 41 Oak Brook Drive Ithaca, N.Y.
PREPARED BY: MB	CHECKED BY: WM	PROJECT: Dryden Road - NYS Rte. 366	PROJECT: Town of Dryden
STATUS: S-4			

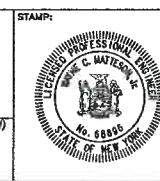


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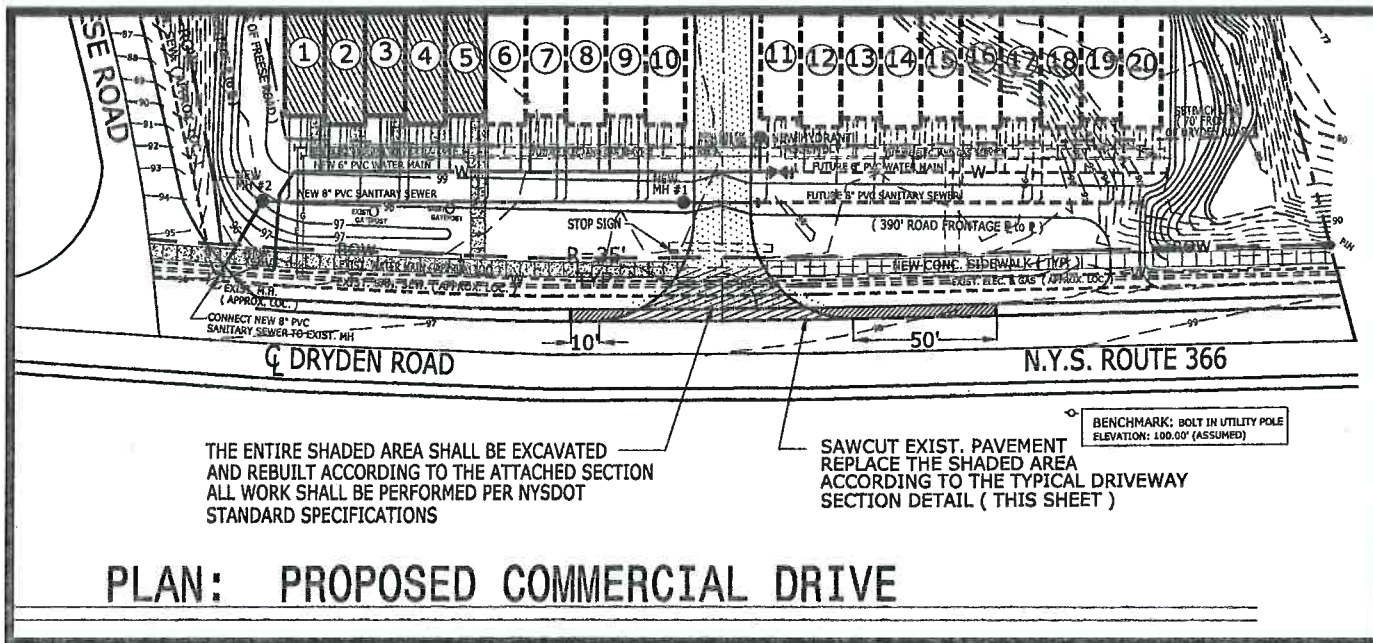
NO.	BY	DATE	DESCRIPTION

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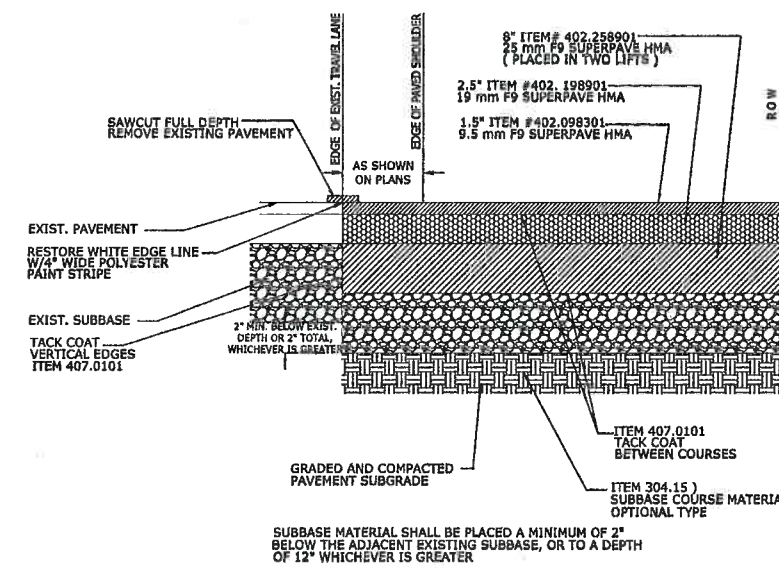
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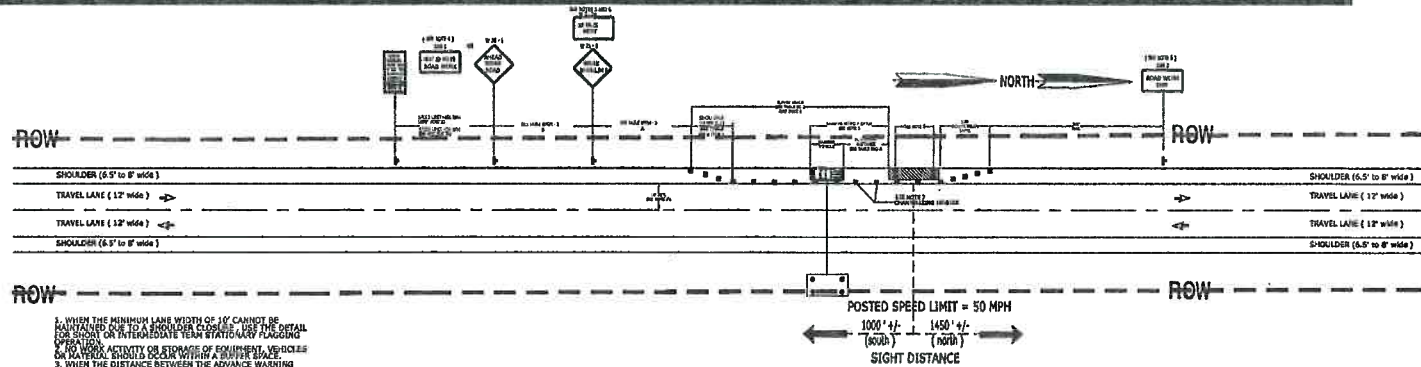
SCALE: 1" = 30'	CUSTOMER: Nick Bellisario and Otis Phillips 41 Oak Brook Drive Ithaca, N.Y.
DATE: Mar. 19, 2011	PROJECT: Monkey Run Townhouse Project Dryden Road - NYS Rte. 366 Town of Dryden
PREPARED BY: MB	TITLE: Retention Pond Details
CHECKED BY: WM	SHEET: S-6
STATUS:	1100



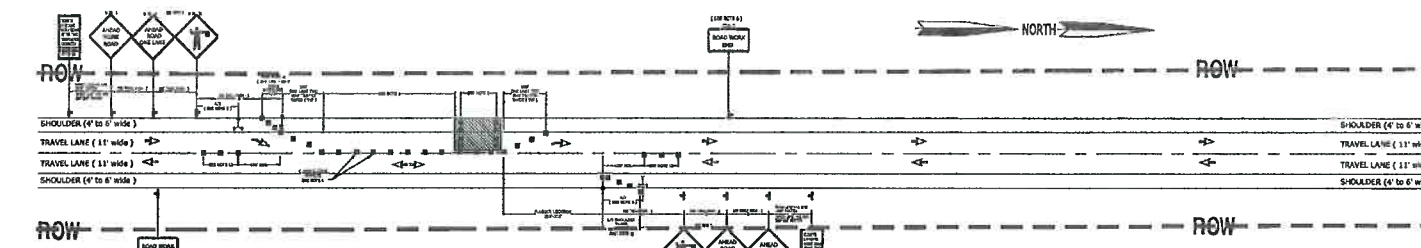
PLAN: PROPOSED COMMERCIAL DRIVE



TYPICAL DRIVEWAY SECTION (IN N.Y.S. R.O.W.)



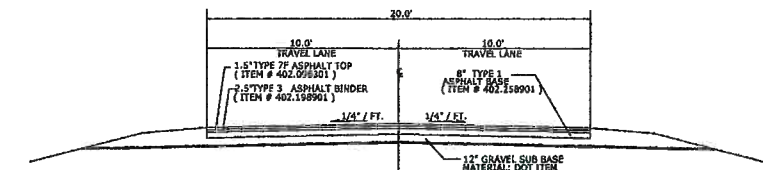
SHOULDER CLOSURE SHORT OR INTERMEDIATE TERM STATIONARY 2-LANE 2-WAY ROADWAY PLAN NEW YORK STATE RTE 366



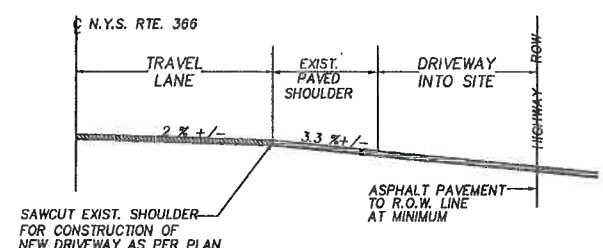
FLAGGING OPERATION (SHORT OR INTERMEDIATE TERM) STATIONARY LANE CLOSURE ON 2-LANE 2-WAY ROADWAY PLAN NEW YORK STATE RTE. 366

- WORK ZONE TRAFFIC CONTROL NOTES**
1. THE PERMITTEE SHALL BE AWARE THAT WORK ZONE TRAFFIC CONTROL IS A VERY CRITICAL PART OF THE PERMIT AND SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 815 "WORK ZONE TRAFFIC CONTROL" OF THE STANDARD SPECIFICATIONS, THE 2003 EDITION OF THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND THE NEW YORK STATE SUPPLEMENT. THE PERMITTEE SHALL BE RESPONSIBLE FOR WORK ZONE TRAFFIC CONTROL AT ALL TIMES FOR THE DURATION OF THE PERMITTED WORK.
 2. ACTUAL FIELD CONDITIONS MAY REQUIRE OTHER SIGNS AND OTHER ARRANGEMENTS OF SIGNS. DISTANCE SHALL BE ADAPTED TO PREVALENT CONDITIONS. SIGNS SHALL BE LOCATED TO PROVIDE OPTIMUM VISIBILITY. SIGNS THAT ARE NOT APPLICABLE SHALL BE COVERED OR OBSOLETE FROM RIGHT. ALL SIGN NUMBERS REFER TO THE 2003 EDITION OF THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND THE NEW YORK STATE SUPPLEMENT.
 3. NEIGHBORLY ACCOMMODATION SHALL BE MAINTAINED FOR THE DURATION OF THE PROPOSED WORK. ANY DISTURBED AREA WITHIN THE STATE RIGHT-OF-WAY SHALL BE ADEQUATELY FENCED TO PREVENT PEDESTRIAN ACCESS WHEN THE CONTRACTOR'S OPERATIONS ARE SHUT DOWN.
 4. NO LANE OR SHOULDER CLOSURES SHALL BE PERMITTED BETWEEN THE HOURS OF 7:00AM UNTIL 9:00AM AND BETWEEN THE HOURS OF 4:00 PM UNTIL 6:00 PM.
 5. MATERIALS, EQUIPMENT AND VEHICLES SHALL NOT BE STORED OR PARKED WITHIN THE STATE RIGHT-OF-WAY BEFORE WORK BEGINS OR AFTER CONTRACTOR'S OPERATIONS ARE SHUT DOWN. STAGING AREAS OUTSIDE THE RIGHT-OF-WAY SHALL BE USED TO STORE VEHICLES, EQUIPMENT AND MATERIALS. ALL VEHICLES AND EQUIPMENT SHALL BE COVERED DURING WORKING HOURS. NO CONSTRUCTION MATERIAL MAY BE STORED OR PLACED ON THE ROADWAY OR ROADSIDE EXCEPT WITHIN A PROTECTED WORK AREA.
 6. VEHICLES BELONGING TO THE PERMITTEE OR WORKERS SHALL NOT BE PARKED WITHIN 30 FT. OF THE EDGE OF PAVEMENT ALONG A ROADWAY OR SHOULDER. VEHICLES MUST BE PARKED WITHIN A PROTECTED WORK AREA.
 7. ALL FLAGGING STATIONS AND LANE CLOSURES SHOULD BE LOCATED TO ENSURE MAXIMUM VISIBILITY.
 8. NO DROP OFF GREATER THAN SIX INCHES SHALL BE LEFT OVERNIGHT WITHIN 30 FT. OF THE EDGE OF PAVEMENT OR MORE THAN SIX INCHES SHALL BE PERMITTED TO PROPER DRAINAGE AND SIGNING IS PROVIDED, AND PRIOR PERMISSION IS GRANTED IN WRITING BY A REPRESENTATIVE OF THE DEPARTMENT. A DROP OFF IS CONSIDERED ELIMINATED IF TAKEN AWAY BY 1 ON 4 SLOPE OR FLATTER.
 9. CARE SHALL BE TAKEN TO INSURE THAT NO DAMAGE OCCURS TO THE EXISTING PAVEMENT/SUBGRADE/URB AREAS AS A RESULT OF CONSTRUCTION OPERATIONS. THE PERMITTEE SHALL BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF SUCH AREAS.
 10. THE PERMITTEE MAY SUBMIT REVISIONS TO THIS PLAN FOR APPROVAL, BUT ANY CHANGE THAT ALTERS THE BASIC CONCEPTS OF THE PLAN MUST BE APPROVED BY THE REGIONAL DIRECTOR OR HIS DESIGNEE.

- N.Y.S.D.O.T. STANDARD GENERAL PLAN NOTES**
1. NO SIGNS SHALL BE REMOVED FROM THE STATE RIGHT-OF-WAY.
 2. ROADWAY SHALL BE KEPT CLEAR OF MUD AND ALL OTHER DEBRIS AT ALL TIMES.
 3. ROADSIDE DRAINAGE TO BE MAINTAINED AT ALL TIMES.
 4. MATERIALS, EQUIPMENT AND VEHICLES SHALL NOT BE STORED OR PLACED WITHIN THE STATE RIGHT-OF-WAY.
 5. WORK ZONE TRAFFIC CONTROL SHALL COMPLY WITH THE 2003 EDITION OF THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND THE NEW YORK STATE SUPPLEMENT, AND SHALL BE IN ACCORDANCE WITH THE INDOT CONTRACT OR HIGHWAY PERMITTING DOCUMENTS AND AS DEEMED NECESSARY BY THE ENGINEER IN CHARGE.
 6. NOTIFY NEW YORK STATE DEPARTMENT OF TRANSPORTATION RESIDENT ENGINEER AT THE COMMUNICATING RESIDENCE (507) 756-7072 WORKING HOURS PRIOR TO WORKING IN THE STATE RIGHT-OF-WAY.
 7. NOTIFY DDE NEW YORK 3 WORKING HOURS PRIOR TO DRILLING, DRILLING OR BLASTING AT 1-800-962-7963 FOR A UTILITY STAKE - CUT.
 8. ALL WORK CONTRACTS AND MATERIALS USED WITHIN THE STATE RIGHT-OF-WAY SHALL BE COVERED BY AND IN CONFORMANCE WITH THE NYS DEPARTMENT OF TRANSPORTATION MAY 1, 2008 SPECIFICATIONS BOOK AND ANY SUBSEQUENT ADDENDUMS WITH ANY APPROPRIATE CURRENT NYS STATE DEPARTMENT OF TRANSPORTATION STANDARD SHEETS, EXCEPT AS PROVIDED IN THESE PLANS AND IN THE ITERATED PROPOSAL.
 9. QUALITY CONTROL OF ASPHALT CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 402 OF THE STANDARD SPECIFICATIONS. ASPHALT COURSE DEPTHS SHOWN ON THE PLANS ARE CONTRACT DEPTHS.
 10. NO NIGHT WORK WILL BE ALLOWED UNLESS PRIOR APPROVAL IS GIVEN BY THE DEPARTMENT. ADDITIONAL WORK ZONE TRAFFIC CONTROL WILL BE REQUIRED INCLUDING THE ADDITION OF REFLECTIVE MATERIALS AND LIGHTING.
 11. HAZARDOUS WASTE NOTIFICATION - THIS PERMITTEE ACCEPTS THE RIGHT-OF-WAY OF THE STATE HIGHWAY AS IT IS IN CONFORMITY WITH THE DEPARTMENT OF TRANSPORTATION HAZARDOUS WASTE NOTIFICATION ACT AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE PUBLIC FROM HAZARDOUS WASTE. THE PERMITTEE SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE PUBLIC FROM HAZARDOUS WASTE. THE PERMITTEE SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE PUBLIC FROM HAZARDOUS WASTE. THE PERMITTEE SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE PUBLIC FROM HAZARDOUS WASTE.
 12. OTHER CUTTING OF THE ROADWAY SHALL NOT BE ALLOWED UNLESS PERMISSION IS OBTAINED IN WRITING, BY THE REGIONAL TRAFFIC ENGINEER.



TYPICAL DRIVEWAY SECTION (IN N.Y.S. R.O.W.)

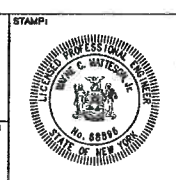


DRIVEWAY PROFILE

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NO.	BY	DATE	DESCRIPTION

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 3893 Eatonbrook Road
 Erieville, NY 13061
 315-662-7146 Cell: 607-423-4321



SCALE: AS SHOWN
 DATE: Mar. 19, 2011
 PREPARED BY: MB
 CHECKED BY: WM
 STATUS: SHEET

CLIENT: Nick Bellisario and Otis Phillips
 41 Oak Brook Drive
 Ithaca, N.Y.

PROJECT: Monkey Run Townhouse Project
 Dryden Road - NYS Rte. 366
 Town of Dryden

TITLE: Maintenance & Protection of Traffic Plan
 SHEET: S-7 11005

CLOSURE TYPE	EXPOSURE CONDITION ¹	USE REQUIREMENTS ^{4,5}			
		FREEWAY	NON FREEWAY PRECONSTRUCTION POSTED SPEED LIMIT		
			>45 MPH	35-40 MPH	< 30 MPH
LANE CLOSURE	WORKERS ON FOOT OR IN VEHICLES EXPOSED TO TRAFFIC	REQUIRED ³	REQUIRED ³	REQUIRED ³	OPTIONAL ²
	NON- TRANSVERSABLE HAZARD OE, EQUIPMENT, MATERIALS, EXCAVATIONS ONLY NO WORKERS EXPOSED	REQUIRED ³	REQUIRED ³	OPTIONAL ²	OPTIONAL ²
SHOULDER CLOSURE	WORKERS ON FOOT OR IN VEHICLES EXPOSED TO TRAFFIC	REQUIRED ³	REQUIRED ³	OPTIONAL ²	OPTIONAL ²
	NON- TRANSVERSABLE HAZARD OE, EQUIPMENT, MATERIALS, EXCAVATIONS ONLY NO WORKERS EXPOSED	REQUIRED ³	OPTIONAL ²	OPTIONAL ²	OPTIONAL ²

- THE EXPOSURE CONDITIONS DESCRIBED IN TABLE NY1-A ASSUMES THERE IS NO POSITIVE PROTECTION (TEMPORARY TRAFFIC BARRIER) PRESENT. WHERE WORKERS OR HAZARDS ARE PROTECTED BY A TEMPORARY TRAFFIC BARRIER, BARRIER VEHICLES ARE NOT REQUIRED.
- WHERE THE REQUIREMENT IS "OPTIONAL" EITHER A BARRIER VEHICLE OR THE STANDARD LONGITUDINAL BUFFER SPACE (TABLE 6C-2) SHALL BE PROVIDED.
- REQUIREMENTS SHALL INCLUDE PROVIDING A SEPARATE BARRIER VEHICLE FOR EACH CLOSED LANE AND EACH CLOSED PAVED SHOULDER 8' 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.
- BARRIER VEHICLES ARE NOT REQUIRED FOR MILLING AND/OR PAVING OPERATIONS, BUT THE STANDARD LONGITUDINAL BUFFER SPACE (TABLE 6C-2) SHALL BE PROVIDED.
- BARRIER VEHICLES ARE NOT REQUIRED FOR FLAGGING OPERATIONS, BUT THE STANDARD LONGITUDINAL BUFFER SPACE (TABLE 6C-2) SHALL BE PROVIDED.

CLOSURE TYPE	EXPOSURE CONDITION	USE REQUIREMENTS			
		FREEWAY	NON FREEWAY PRECONSTRUCTION POSTED SPEED LIMIT		
			>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}	REQUIRED ^{2,4}
	WHEN ANY WORKER, VEHICLE, OR OTHER HAZARD IS EXPOSED TO TRAFFIC	REQUIRED ^{2,4}	REQUIRED ^{2,4}	REQUIRED ^{2,4}	REQUIRED ^{2,4}

- A MOBILE CLOSURE SHALL BE USED FOR ANY WORK ACTIVITY THAT MOVES CONTINUOUSLY OR INTERMITTENTLY ALONG THE TRAVELED WAY OR SHOULDER SLOWER THAN THE PREVAILING SPEED OF TRAFFIC. CHANNELIZING DEVICES ARE NOT USED FOR MOBILE CLOSURES.
- SHADOW VEHICLES SHALL BE EQUIPPED 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 FREEWAYS, AND SHOULDER CLOSURES ON NON-FREEWAY ROADWAYS HAVING A PRE-CONSTRUCTION SPEED LIMIT OF 45 MPH OR MORE.
- 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 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 DESIGNEE.

SPEED LIMIT (S) (MPH)	TAPER LENGTH (L) FT.	L = TAPER LENGTH W = WIDTH OF OFFSET (FT.) S = PRECONSTRUCTION POSTED SPEED LIMIT (MPH)
(40 MPH) OR LESS	$L=WS^2/60$	
(45 MPH) OR MORE	$L=WS$	

LATERAL SHIFT OF TRAFFIC FLOW PATH	TEMPORARY TRAFFIC CONTROL ZONE POSTED LIMIT										
	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	75 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	

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 LANE

SYMBOL	
	ARROW PANEL
	ARROW PANEL CAUTION MODE
	ARROW PANEL TRAILER OR SUPPORT
	CHANGEABLE MESSAGE SIGN (PMS)
	CHANNELIZING DEVICE
	CRASH CUSHION/TEMPORARY IMPACT ATTENUATOR
	DIRECTION OF TEMPORARY TRAFFIC DETOUR
	DIRECTION OF TRAFFIC
	FLAGGER
	FLAG TREE
	LUMINATRE
	PAVEMENT MARKINGS THAT SHALL BE REMOVED FOR A LONG TERM PROJECT
	SIGN, TEMPORARY
	TEMPORARY BARRIER
	TEMPORARY BARRIER WITH WARNING LIGHTS
	TRAFFIC OR PEDESTRIAN SIGNAL
	TYPE 111 BARRICADE
	WARNING LIGHTS
	WORK SPACE
	WORK VEHICLE
	WORK VEHICLE WITH TRUCK MOUNTED ATTENUATOR

PRECONSTRUCTION POSTED SPEED LIMIT MPH	DISTANCE
25	155'
30	200'
35	250'
40	305'
45	360'
50	425'
55	495'
60	570'
65	645'

TYPE OF POSITIVE BARRIER	POSTED SPEED LIMIT				
	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

ROAD TYPE	DISTANCE BETWEEN SIGNS			SIGN LEGEND	
	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 MILE OR
GREATER MAJOR COMMERCIAL DRIVEWAYS, NUMEROUS R.O.W.
CONSTRAINTS, HIGH DENSITY OF CROSS STREETS, 85TH PERCENTILE
SPEEDS OF 45 MPH OR LESS.

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

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

PRECONSTRUCTION POSTED SPEED LIMIT MPH	PLACEMENT DISTANCE (FT.)			
	BARRIER VEHICLES			
	18000 LBS		24000 LBS	
	MIN.	MAX.	MIN.	MAX.
>55	100'	200'	100'	200'
45-55	100'	200'	85'	165'
<45	85'	165'	50'	100'

AS DEFINED IN NYS DOT STANDARD SPECIFICATION 619:

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

MINIMUM DISTANCE SHOWN REFLECTS THE ACTUAL ROLL AHEAD DISTANCE FROM MANUFACTURER

PRECONSTRUCTION POSTED SPEED LIMIT MPH	PLACEMENT DISTANCE (FT.)			
	SHADOW VEHICLES			
	18000 LBS		24000 LBS	
	MIN.	MAX.	MIN.	MAX.
>55	230'	330'	100'	200'
45-55	180'	280'	85'	250'
<45	100'	200'	50'	200'

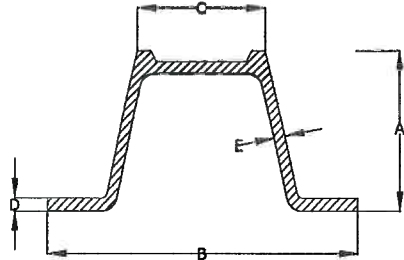
AS DEFINED IN NYS DOT STANDARD SPECIFICATION 619:

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

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

LONG TERM STATIONARY IS WORK THAT OCCUPIES A LOCATION MORE THAN 3 CONSECUTIVE DAYS
INTERMEDIATE TERM STATIONARY IS WORK THAT OCCUPIES A LOCATION MORE THAN ONE DAYLIGHT PERIOD UP TO 3 CONSECUTIVE DAYS, OR NIGHTTIME 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.

No. BY DATE DESCRIPTION	 WAYNE C. MATTESSON, JR. P.E. Consulting Environmental Engineer 3893 Eatonbrook Road Erffville, NY 13061 315-662-7146 Call: 607-423-4321	 STATE OF NEW YORK No. 8888	SCALE:	CLIENT:	Nick Bellisario and Otis Phillips	
			DATE:	PROJECT:	41 Oak Brook Drive Ithaca, N.Y.	
			PREPARED BY:	MB	Monkey Run Townhouse Project Dryden Road - NYS Rte. 366 Town of Dryden	
			CHECKED BY:	WM	TITLE:	MPT Notes and Tables
			STATUS:	SHEET:	S-8	



POST SIZE	AREA (mm ²)	I (mm ⁴)	S (mm ³)	A	B	C	D	E	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.

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 EXHIBIT 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.

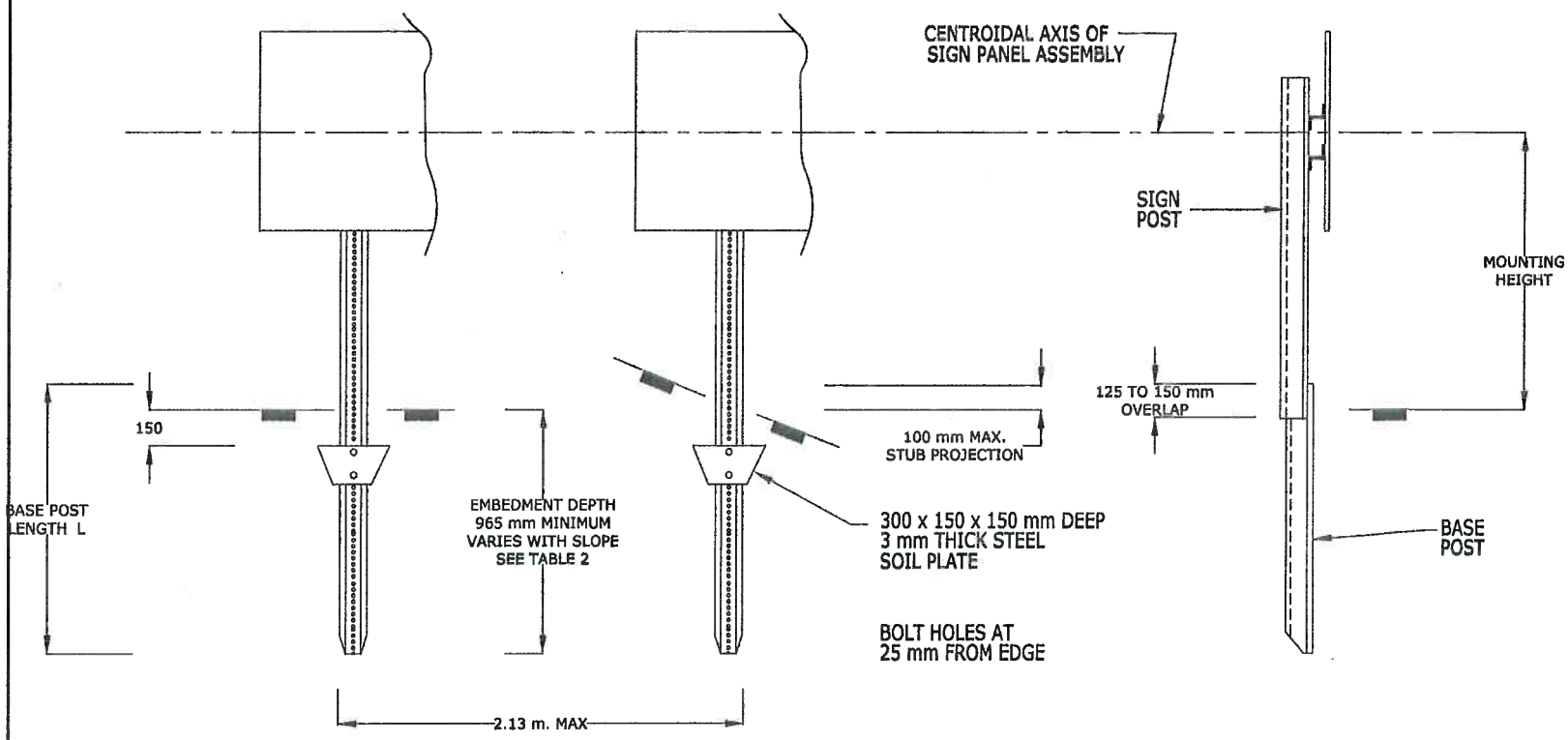
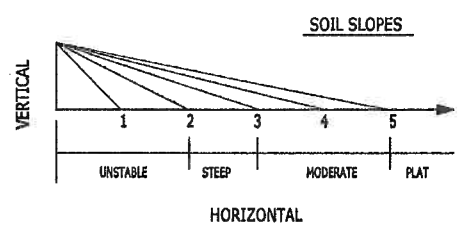
S-2 INCLUDES UNIFORM SANDS WHICH EXHIBIT PENETRATION VALUES OF LESS THAN 9 BLOWS PER 305 mm USING A 136 kg DROP HAMMER . BLEACH SANDS ARE INCLUDED IN THIS CATEGORY.

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 MINIMUM EMBEDMENT.

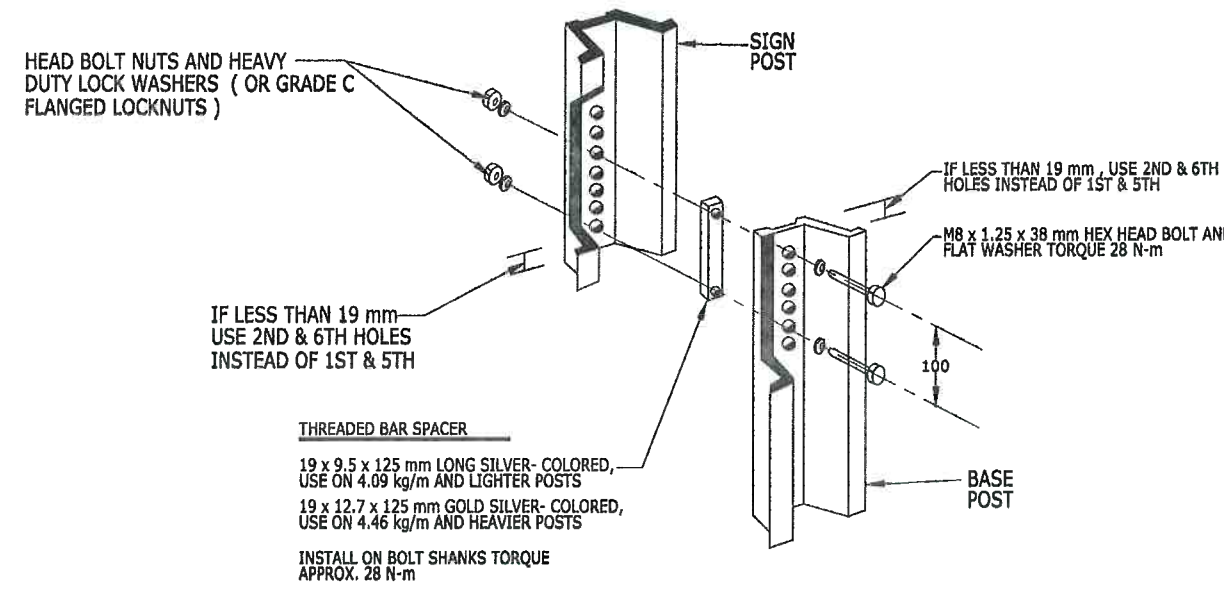
LAP SPLICE NUTS AND BOLTS SHALL BE M180, WITH AN ULTIMATE TENSILE STRENGTH OF 1240 MP P_{MIN}.

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.

EMBEDMENT TYPE	SOIL SLOPE	SOIL DESCRIPTION					
		S-1 NON - PLASTIC (MED. TO VERY COMPACT)			S-2 NON - PLASTIC (LOOSE TO VERY LOOSE)		
		MAX. NO. OF POSTS	MIN. EMBEDMENT	SOIL R _L	MAX. NO. OF POSTS	MIN. EMBEDMENT	SOIL R _L
LAP - SPLICE	FLAT	3	965	NO	3	1524	YES
	MODERATE	3	1372	NO	3	1524	YES
	STEEP	3	1524	NO	3	1524	YES



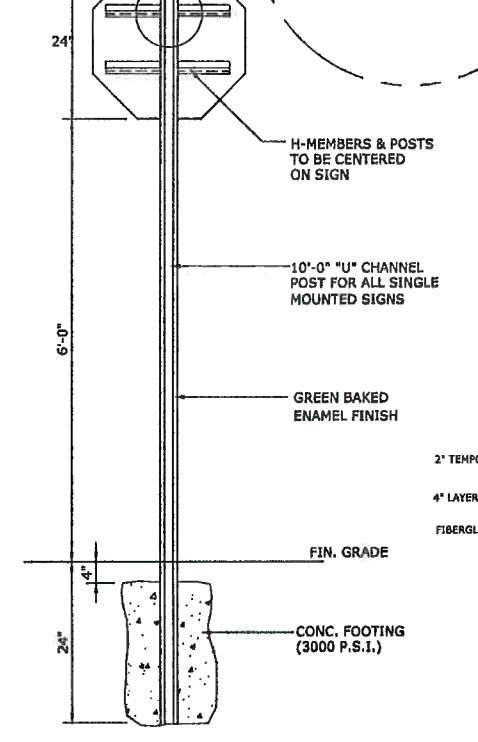
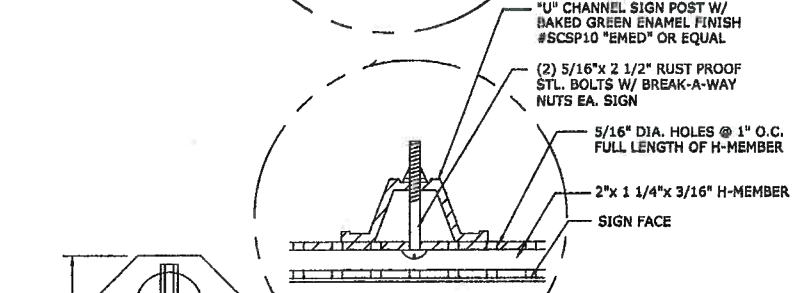
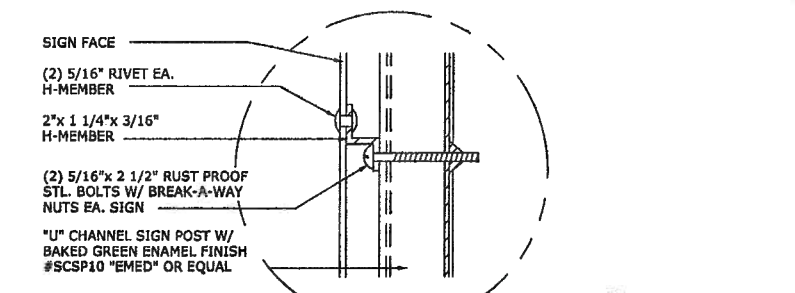
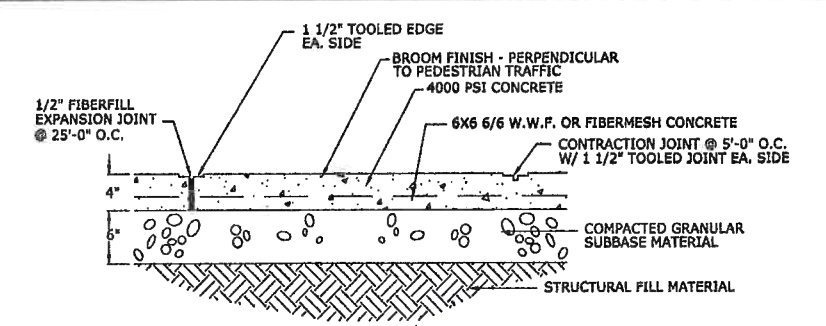
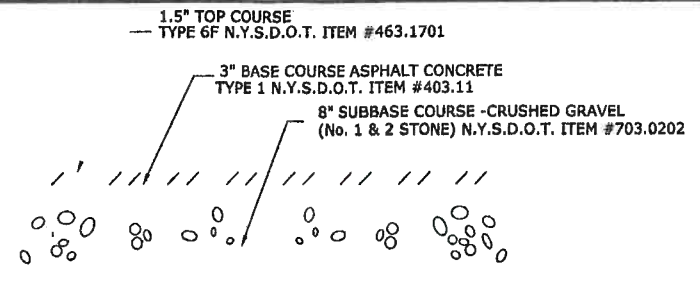
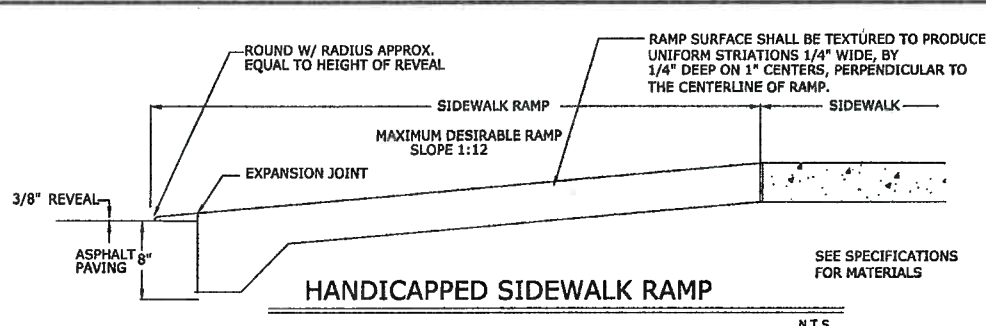
EMBEDMENT DETAILS
NOTE: THREE POSTS ALLOWED WITHIN 2.13 M SWATH



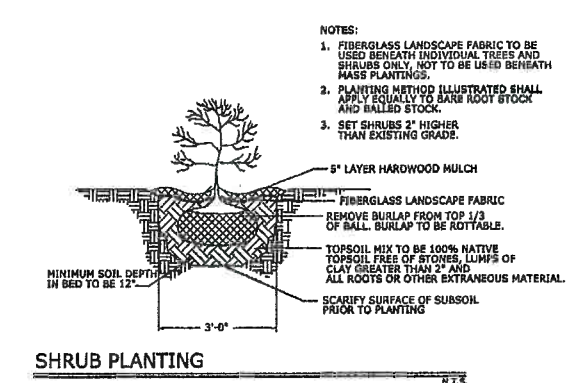
THESE DETAILS ARE SKETCH DRAWINGS AND ARE NOT TO SCALE DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED

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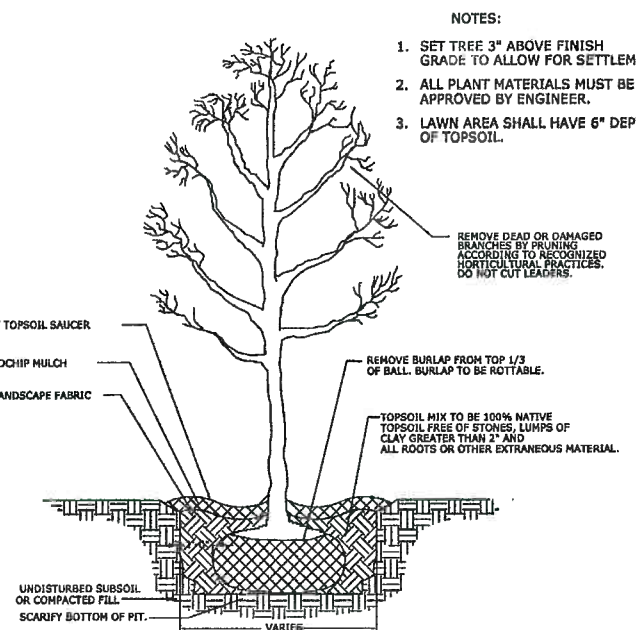
<p>WAYNE C. MATTESON, JR. PE Consulting Environmental Engineer 3893 Eatonbrook Road Erieville, NY 13061 315-662-7146 Cell: 607-423-4321</p> <p>WARNING: (PER SECTION 7209, SUBDIVISION 2, N.Y.S. EDUCATION LAW) IT IS A VIOLATION OF SAID LAW TO ALTER ANY PORTION OF THIS DOCUMENT IN ANY WAY, EXCEPT AS DIRECTED BY A LICENSED PROFESSIONAL ENGINEER. EACH ALTERATION MUST BE SPECIFICALLY IDENTIFIED.</p>	<p>STAMP: </p>	<p>SCALE: NTS DATE: Mar. 19, 2011 PROJECT: Monkey Run Townhouse Project Town of Dryden TITLE: Materials Details for Type A Sign Support STATUS: S-9</p>	<p>1100</p>
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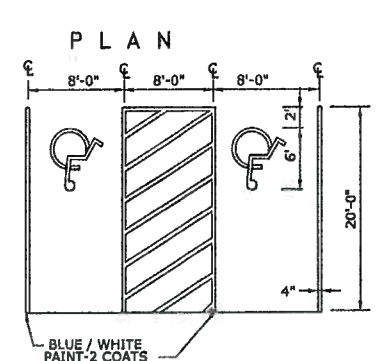
POLE MOUNTED SIGN DETAIL



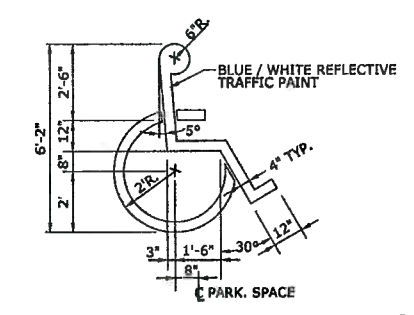
SHRUB PLANTING



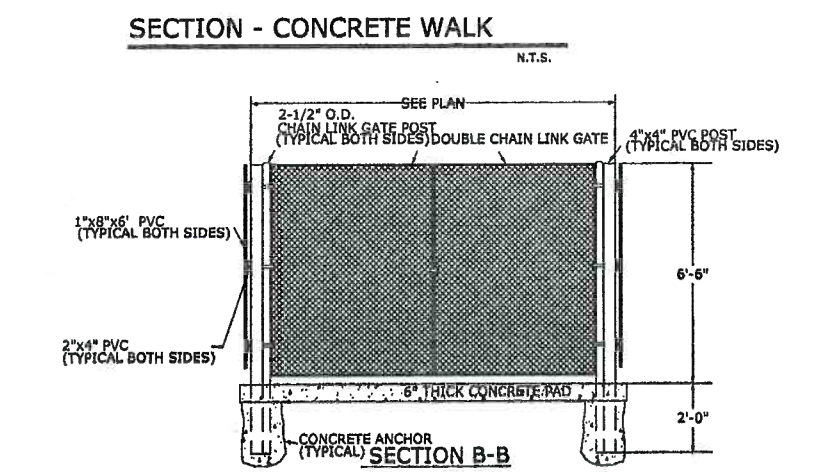
TREE PLANTING



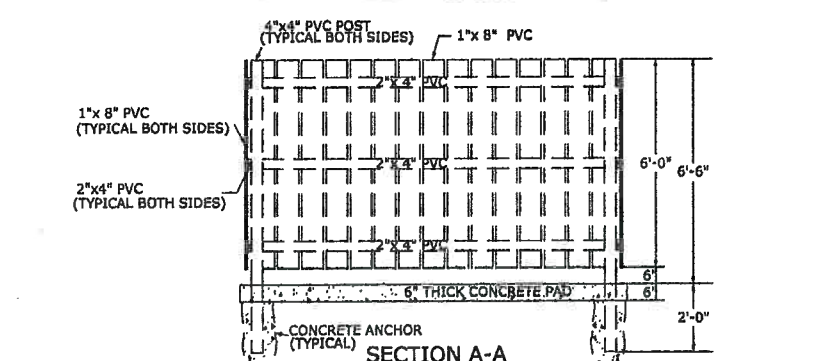
TYPICAL PARKING STRIPING DETAIL



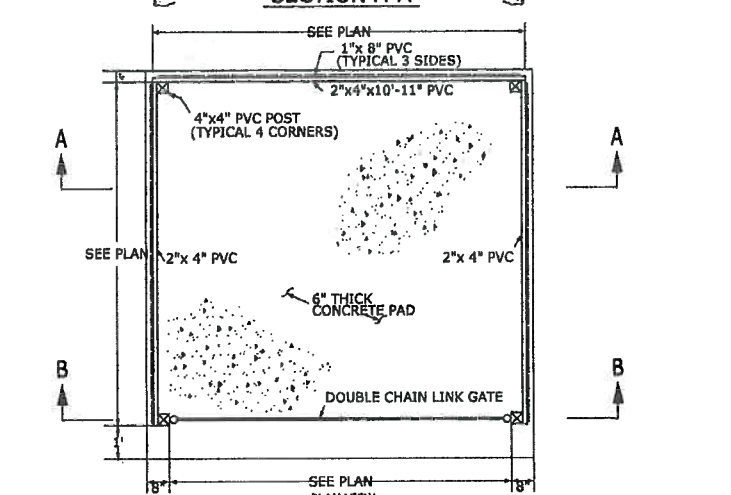
HANDICAPPED PAVEMENT MARKING DETAIL



SECTION B-B



SECTION A-A



DUMPSTER ENCLOSURE DETAIL

1. ALL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH SUBCHAPTER "E" OF THE NEW YORK STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) LINE WIDTHS AND SPACING SHALL BE THE SAME AS INDICATED ON DRAWING(S).

2. AFTER THE CONTRACTOR HAS ESTABLISHED MARKING LINE POINTS FOR THE MARKINGS, AS PER SECTION 687-3.04 OF THE N.Y.S. STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS, JANUARY 2, 1985, BY PAINT OR OTHER APPROVED MEANS, THE E.I.C. SHALL REVIEW AND APPROVE OR REVISE THESE LOCATIONS TO MEET FIELD CONDITIONS. NECESSARY LOCATION ADJUSTMENTS WILL BE MADE PRIOR TO PLACING PAVEMENT MARKINGS.

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No.	REV.	DATE	DESCRIPTION

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SCALE: AS SHOWN
 DATE: NTS
 Mar. 19, 2011
 PREPARED BY: MB
 CHECKED BY: WM
 STATUS: ISSUED

PROJECT: Monkey Run Townhouse Project
 Dryden Road - NYS Rte. 366
 Town of Dryden
 Site Details

Drawn by: Nick Bellisario and Otis Phillips
 41 Oak Brook Drive
 Ithaca, N.Y.

SHEET: S-10 OF 1100