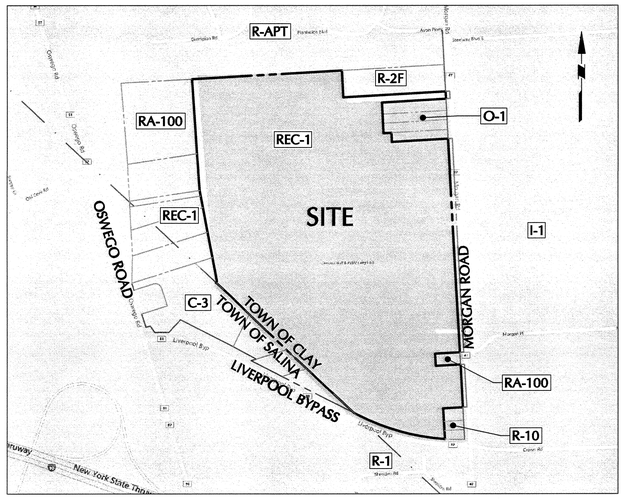
SITE PLAN APPROVAL DOCUMENTS
FOR
PROPOSED DISTRIBUTION FACILITY PROJECT
IN
TOWN OF CLAY
ONONDAGA COUNTY, NEW YORK
SECTION 114, BLOCK 1, LOT 2.3

DRAWING LIST	
DRAWING NO.	**DRAWING TITLE**
CS001	COVER SHEET
CS002	NOTES SHEET
CS100	OVERALL SITE PLAN
CS101	SITE PLAN (1 OF 4)
CS102	SITE PLAN (2 OF 4)
CS103	SITE PLAN (3 OF 4)
CS104	SITE PLAN (4 OF 4)
CS110	PAVEMENT PLAN
CS401	SIGNAGE AND STRIPING PLAN (1 OF 4)
CS402	SIGNAGE AND STRIPING PLAN (2 OF 4)
CS403	SIGNAGE AND STRIPING PLAN (3 OF 4)
CS404	SIGNAGE AND STRIPING PLAN (4 OF 4)
CG100	OVERALL GRADING AND DRAINAGE PLAN
CG101	GRADING AND DRAINAGE PLAN (1 OF 4)
CG102	GRADING AND DRAINAGE PLAN (2 OF 4)
CG103	GRADING AND DRAINAGE PLAN (3 OF 4)
CG104	GRADING AND DRAINAGE PLAN (4 OF 4)
CG201	STORM SEWER PROFILES (1 OF 4)
CG202	STORM SEWER PROFILES (2 OF 4)
CG203	STORM SEWER PROFILES (3 OF 4)
CG204	STORM SEWER PROFILES (4 OF 4)
CU100	OVERALL UTILITY PLAN
CU101	UTILITY PLAN (1 OF 4)
CU102	UTILITY PLAN (2 OF 4)
CU103	UTILITY PLAN (3 OF 4)
CU104	UTILITY PLAN (4 OF 4)
CU201	SANITARY SEWER PROFILES
CE100	OVERALL PHASING AND SOIL EROSION & SEDIMENT CONTROL PLAN
CE101	EROSION & SEDIMENT CONTROL PLAN (1 OF 4)
CE102	EROSION & SEDIMENT CONTROL PLAN (2 OF 4)
CE103	EROSION & SEDIMENT CONTROL PLAN (3 OF 4)
CE104	EROSION & SEDIMENT CONTROL PLAN (4 OF 4)
CE501	EROSION & SEDIMENT CONTROL DETAILS
CS500	SIGNAGE AND STRIPING DETAILS
CS501	SITE CONSTRUCTION DETAILS (1 OF 4)
CS502	SITE CONSTRUCTION DETAILS (2 OF 4)
CS503	SITE CONSTRUCTION DETAILS (3 OF 4)
CS504	SITE CONSTRUCTION DETAILS (4 OF 4)
LP100	OVERALL LANDSCAPE PLAN
LP101	LANDSCAPE PLAN (1 OF 4)
LP102	LANDSCAPE PLAN (2 OF 4)
LP103	LANDSCAPE PLAN (3 OF 4)
LP104	LANDSCAPE PLAN (4 OF 4)
LP501	LANDSCAPING NOTES & DETAILS
LL100	OVERALL LIGHTING PLAN
LL101	LIGHTING PLAN (1 OF 4)
LL102	LIGHTING PLAN (2 OF 4)
LL103	LIGHTING PLAN (3 OF 4)
LL104	LIGHTING PLAN (4 OF 4)
LL501	LIGHTING NOTES & DETAILS
VB101	BOUNDARY AND TOPOGRAPHIC SURVEY



LOCATION MAP

SCALE: 1"=500'

PROJECT CONTACTS

DEVELOPER/APPLICANT: T.C. SYRACUSE DEVELOPMENT ASSOCIATES, LLC
300 CONSHOHOCKEN STATE ROAD, SUITE 250
WEST CONSHOHOCKEN, PA 19428

PROPERTY OWNER: R H & R M AJEMIAN; ROBERTA SCHMIDT
7209 MORGAN ROAD
LIVERPOOL, NY 13090

SITE/CIVIL ENGINEER: LANGAN
300 KIMBALL DRIVE
PARSIPPANY, NJ 07054
(973) 560-4900

ARCHITECT: BL COMPANIES
355 RESEARCH PARKWAY
MERIDEN, CT 060545
(203) 630-1406

FIRE PROTECTION ENGINEER: HARRINGTON GROUP, INC.
10720 SIKES PLACE, SUITE 110
CHARLOTTE, NC 28277
(704)-849-0130

ADJACENT PROPERTY OWNER'S LIST TOWN OF CLAY			
SECTION	**BLOCK**	**LOT**	**OWNER NAME / ADDRESS**
104	3	1	Niagara Mohawk Power Corp
114	1	1	Mouloud H Meghezzi Liber 4806, Page 315
114	1	3	George D Powers Liber 4792, Page 250
114	1	4	David R Tillotson Liber 5020, Page 931
114	1	5	Shirley A Nordheim Liber 3951, Page 221
114	1	7	Vivian Schoeck
114	1	8	Shirley A Nordheim Liber 3951, Page 221
114	1	9.1	Craig M Forgette Liber 5040, Page 594
114	1	9.2	Melvin A Forget & Thelma June T Forget Liber 3951, Page 221
114	1	28.1	Ajemian Properties LLC
114	1	31	Nochels LD LLC Liber 5272, Page 493
114	1	32	Nochels LD LLC Liber 5272, Page 485
114	1	33	Nochels LD LLC Liber 5272, Page 485
114	1	34	Nochels LD LLC Liber 5272, Page 485
114	1	37	Nochels LD LLC Liber 5272, Page 485
114	1	38	Dominick L Fabrizio & Carmela Fabrizio Liber 3996, Page 247

ADJACENT PROPERTY OWNER'S LIST TOWN OF SALINA			
SECTION	**BLOCK**	**LOT**	**OWNER NAME / ADDRESS**
24	1	3.2	Ronald H & Richard M Ajemian
24	1	4.2	Ronald H & Richard M Ajemian
24	1	37.1	Ajemian Properties LLC
24	1	37.2	Ajemian Properties LLC
24	1	37.3	GP Portfolio Landlord #1 LLC Liber 5024, Page 107

Zoning Table - Town of Clay			
Proposed Zone: Industrial District (I-1)			
Bulk Requirements	**Required (I-1)**	**Proposed**	**Complies**
Proposed Use	As listed in §230-17.C.(2)	Warehouse/ Distribution	Yes
Min. Lot Area	N/A	4,772,936 SQ FT (109.57 AC)	Yes
Min. Lot Width / Frontage	200 FT*	Morgan Road: 2,163 FT Liverpool Bypass: 778 FT	Yes
Min. Lot Depth	200 FT*	1,984 FT	Yes
Max. Building Coverage	60%	17.3%	Yes
Max. Impervious Coverage	80%	43.9%	Yes
Min. Building Front Yard Setback	NYS or County Road : 200 FT Town or Private Road: 50 FT	238.6 FT	Yes
Min. Building Rear Yard Setback	75 FT**	662.2 FT	Yes
Min. Building Side Yard Setback	75 FT**	177.2 FT	Yes
Max. Building Height	N/A	85' 1"	Yes
Max. Gross Floor Area	N/A	3,783,124 SQ FT	Yes
Max. Number of Floors	N/A	5 Floors	Yes
Perimeter Landscape Strip	50% of Front Yard Depth (100 FT)	40.8 FT	No

* Required minimum lot width and required lot depth are not defined in the Industrial 1 District. The minimum lot width and depth are defined by the Highway Overlay District. Per §230-19.A.(4)(b)[2], if there is no required minimum lot width of frontage in the underlying conventional district, then lots affected by the overlay shall have a minimum frontage of 200 feet and a minimum depth of 200 feet.

** Minimum required side and rear yard setback is 25 feet per §230-17.C.(4)(b)[2] and §230-17.C.(4)(b)[3]. Per §230-17.C.(5)(b), when abutting a nonindustrial district, an additional 50 feet is added to the side and rear yard setback.

WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

Date	Description	No.
REVISIONS		

STATE OF NEW YORK · RICHARD BURROW · 082168 · LICENSED PROFESSIONAL ENGINEER

SIGNATURE OCT 02 2019 DATE SIGNED
RICHARD T. BURROW
PROFESSIONAL ENGINEER NY Lic. No. 082168

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project	PROPOSED DISTRIBUTION FACILITY PROJECT SECTION 114. BLOCK 1, LOT 2.3 TOWN OF CLAY ONONDAGA COUNTY NEW YORK
Drawing Title	COVER SHEET
Project No.	100796101
Date	10/02/2019
Drawn By	JRS
Checked By	TLK
Drawing No.	CS001

Filename: \\langan.com\data\PAR\data1\100796101\Project Data\CAD\01SheetFiles\Site Plan Approval\100796101-CS001-0101.dwg Date: 10/2/2019 Time: 18:54 User: jsarabia Style Table: Langan.stb Layout: CS001

LANGAN
PROJECT NO. 100796101

ABBREVIATIONS

(TYP)	– TYPICAL
VIF	– VERIFY IN FIELD
NEC.	– NECESSARY
PROP.	– PROPOSED
EXIST.	– EXISTING
HC	– HANDI–CAP
SHT.	– SHEET
NO.	– NUMBER
TW	– TOP OF WALL
BW	– BOTTOM OF WALL
WV	– WATER VALVE
HYD	– HYDRANT
YR.	– YEAR
AC	– ACRE
SF	– SQUARE FEET
LF	– LINEAR FEET
PT	– POINT OF TANGENT
PC	– POINT OF CURVATURE
HP	– HIGH POINT
LP	– LOW POINT
VC	– VERTICAL CURVE
PVI	– POINT OF VERTICAL INFLECTION
STA	– STATION
A.D.	– ALGEBRAIC DIFFERENCE
K	– CURVE COEFFICIENT
BVCS	– BEGINNING VERTICAL CURVE STATION
BVCE	– BEGINNING VERTICAL CURVE ELEVATION
EVCS	– END VERTICAL CURVE STATION
EVCE	– END VERTICAL CURVE ELEVATION
ELEV.	– ELEVATION
EL	– ELEVATION
HORIZ.	– HORIZONTAL
VERT.	– VERTICAL
PERF.	– PERFORATED
HDPE	– HIGH DENSITY POLYETHYLENE
PVC	– POLYVINYL CHLORIDE
DIP	– DUCTILE IRON PIPE
CIP	– CAST IRON PIPE
INV	– INVERT
MIN.	– MINIMUM
ES	– END SECTION
OS	– OUTLET STRUCTURE
N.T.S.	– NOT TO SCALE
UP	– UTILITY POLE
CTGE	– CABLE, TELEPHONE, GAS, ELECTRIC
LSE	– LOWEST SEWERABLE ELEVATION
R	– ARC RADIUS
A	– ARC LENGTH
△	– CENTRAL ANGLE
CL	– CHORD LENGTH
CB	– CHORD BEARING

GENERAL NOTES

1. EXISTING BACKGROUND INFORMATION BASED ON BOUNDARY AND TOPOGRAPHIC SURVEY PREPARED BY LANGAN ENGINEERING, DATED AUGUST 30, 2019.
2. THE CONTRACTOR SHALL CALL "DIG SAFELY NEW YORK" PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. CALL 1–800–962–7962 OR 811 FOR STAKEOUT REQUESTS.
3. ALL EXISTING UTILITY LINES SHALL BE LOCATED/VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ORDERING ANY MATERIALS AND/OR STARTING ANY CONSTRUCTION.
4. THE CONTRACTOR SHALL FURNISH, INSTALL, TEST AND COMPLETE ALL WORK TO THE SATISFACTION OF THE ENGINEER AND OWNER IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION; AS SUCH, THESE PLANS DO NOT COMPLETELY REPRESENT, NOR ARE THEY INTENDED TO REPRESENT, ALL SPECIFIC INSTRUCTIONS REQUIRED FOR SITE WORK CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONSTRUCT ALL IMPROVEMENTS DEPICTED ON THESE PLANS IN ACCORDANCE WITH ALL APPLICABLE RULES, REGULATIONS AND LAWS IN EFFECT AT THE TIME OF CONSTRUCTION.
5. THE CONTRACTOR SHALL ACCEPT THE SITE AS IS. THE CONTRACTOR SHALL ASSESS CONDITIONS, AND THE KIND, QUALITY AND QUANTITY OF WORK REQUIRED. THE OWNER MAKES NO GUARANTEE IN REGARD TO THE ACCURACY OF ANY AVAILABLE INFORMATION WHICH WAS OBTAINED DURING INVESTIGATIONS. THE CONTRACTOR SHALL MAKE A THOROUGH SITE INSPECTION IN ORDER TO FIELD CHECK EXISTING SITE CONDITIONS, CORRELATE CONDITIONS WITH THE DRAWINGS AND RESOLVE ANY POSSIBLE CONSTRUCTION CONFLICTS WITH THE OWNER AND ENGINEER PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL MAKE ADDITIONAL TOPOGRAPHIC SURVEYS HE DEEMS NECESSARY, PROVIDED THEY ARE COORDINATED WITH THE OWNER. ANY CONDITIONS DETERMINED BY THE CONTRACTOR THAT DIFFER FROM THE INFORMATION SHOW ON THE DRAWINGS THAT ARE NOT BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER PRIOR TO THE START OF WORK SHALL NOT BE CONSIDERED GROUNDING FOR ADDITIONAL PAYMENT OR CHANGES TO THE CONTRACT DURATION, OR ANY OTHER CLAIMS AGAINST THE OWNER OR OWNER'S ENGINEER.
6. THE CONTRACTOR SHALL, WHEN THEY DEEM NECESSARY, PROVIDE WRITTEN REQUESTS FOR INFORMATION (RFI) TO THE OWNER AND ENGINEER PRIOR TO THE CONSTRUCTION OF ANY SPECIFIC SITE WORK ITEM. THE RFI SHALL BE IN A FORM ACCEPTABLE TO OWNER AND ENGINEER AND SHALL ALLOW FOR A MINIMUM OF 10 WORK DAYS OR ADDITIONAL REASONABLE TIME FOR A WRITTEN REPLY. THE RFI SHALL BE NUMBERED CONSECUTIVELY BY DATE SUBMITTED. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SITE WORK ITEMS CONSTRUCTED DIFFERENTLY THAN INTENDED OR AS DEPICTED ON THE PLANS.
7. INFORMATION RELATED TO ELEVATIONS AND PROPOSED UTILITIES (SUCH AS ROADWAY GRADES, INVERT ELEVATIONS, RIM ELEVATIONS, GRATE ELEVATIONS, BUILDING FINISHED FLOOR ELEVATIONS, ETC.) MAY BE FOUND IN MORE THAN ONE LOCATION IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL SUFFICIENTLY REVIEW ALL PLANS, PROFILES AND ANY OTHER INFORMATION IN THE CONTRACT DOCUMENTS FOR CONSISTENCY PRIOR TO CONSTRUCTION. ANY INCONSISTENCIES OR DISCREPANCIES THAT ARE FOUND BY THE CONTRACTOR OR HIS ASSIGNS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER IN WRITING, IN THE FORMAT OF AN RFI PRIOR TO CONSTRUCTION.
8. THERE ARE ADDITIONAL NOTES, SPECIFICATIONS AND REQUIREMENTS CONTAINED THROUGHOUT THE PLAN SET AS WELL AS REFERENCES TO SPECIFICATIONS FROM APPLICABLE GOVERNING AUTHORITIES AND INDUSTRY STANDARDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN, REVIEW AND ADHERE TO ALL THESE DOCUMENTS.

SITE LAYOUT PLAN NOTES

1. UPON REQUEST, THE TOWN WATER DEPARTMENT SHALL LOCATE EXISTING WATER MAINS AND SERVICES, BUT SHALL NOT GUARANTEE LOCATIONS.
2. UNDERGROUND ELECTRIC SHALL BE ENCASED IN RIGID CASING FOR A MINIMUM OF 6–FEET ACROSS ALL WATER MAINS.
3. THE BUILDER SHALL FURNISH AND INSTALL 6–INCH PERFORATED PIPE ENCASED IN CRUSHED STONE BEHIND BACK OF CURB AS DIRECTED BY THE ENGINEER.
4. IT SHALL BE THE RESPONSIBILITY OF THE APPLICANT/ CONTRACTOR TO CALL IN CODE 53, NO WORK SHALL COMMENCE UNTIL A CODE 53 FIELD MARK OUT HAS BEEN PERFORMED.
5. IF BLASTING IS FOUND NECESSARY, ALL BLASTING OPERATIONS WILL COMPLY WITH ALL APPLICABLE PROVISIONS OF THE TOWN OF CLAY TOWN CODE AS WELL AS THE NEW YORK STATE ORDINANCES GOVERNING THE USE OF EXPLOSIVES.
6. AT LEAST ONE WEEK NOTICE MUST BE GIVEN TO THE TOWN ENGINEER PRIOR TO INITIATING CONSTRUCTION ACTIVITIES SO THAT ADEQUATE INSPECTION COVERAGE MAY BE ARRANGED.
7. WHEN APPROVAL NOTIFICATIONS HAVE BEEN OBTAINED IN WRITING FROM THE OCHD AND/OR AGENCIES HAVING JURISDICTION, THE APPLICANT SHALL SCHEDULE WITH THE TOWN ENGINEER A PRE–CONSTRUCTION CONFERENCE TO BE ATTENDED BY THE TOWN, PROJECT DESIGN PROFESSIONAL, APPLICANT AND CONTRACTOR FOR THE PROJECT. ABSOLUTELY NO PROJECT CONSTRUCTION WORK MAY BEGIN UNTIL WRITTEN "APPROVAL TO CONSTRUCT" NOTIFICATION AND/OR EVIDENCE OF THE RECEIPT OF THE NOI FROM THE NYSDEC IS SUBMITTED TO THE TOWN ENGINEER, AND THE PRE–CONSTRUCTION CONFERENCE HAS TAKEN PLACE. AT THE PRE–CONSTRUCTION CONFERENCE, THE APPLICANT MUST CONFIRM TO THE TOWN ENGINEER THAT THE PROJECT DESIGN PROFESSIONAL WILL CONTINUE TO BE THE ENGINEER–OF–RECORD THROUGHOUT PROJECT CONSTRUCTION.

DEMOLITION NOTES

1. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING MANMADE SURFACE FEATURES WITHIN THE LIMIT OF WORK INCLUDING BUILDINGS, STRUCTURES, PAVEMENTS, SLABS, CURBING, FENCES, UTILITY POLES, SIGNS, ETC. UNLESS INDICATED OTHERWISE ON PLANS. REMOVE AND DISPOSE OF EXISTING UTILITIES, FOUNDATIONS, AND SUITABLE MATERIAL BENEATH AND FOR A DISTANCE OF 10 FEET BEYOND THE PROPOSED BUILDING FOOTPRINT INCLUDING EXTERIOR COLUMNS.
2. EXISTING UTILITIES SHALL BE TERMINATED, UNLESS OTHERWISE NOTED, IN CONFORMANCE WITH LOCAL, STATE, AND INDIVIDUAL UTILITY COMPANY STANDARD SPECIFICATIONS AND DETAILS. THE CONTRACTOR SHALL COORDINATE UTILITY SERVICE DISCONNECTS WITH THE UTILITY REPRESENTATIVES BEFORE DEMOLITION.
3. CONTRACTOR SHALL DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATION, ORDINANCES, AND STATUTES.
4. THE DEMOLITION LIMITS DEPICTED IN THE PLANS IS INTENDED TO AID THE CONTRACTOR DURING THE BIDDING AND CONSTRUCTION PROCESS AND IS NOT INTENDED TO DEPICT EACH AND EVERY ELEMENT OF DEMOLITION. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THE DETAILED SCOPE OF DEMOLITION BEFORE SUBMITTING ITS BID/PROPOSAL TO PERFORM THE WORK AND SHALL MAKE NO CLAIMS AND SEEK NO ADDITIONAL COMPENSATION FOR CHANGED CONDITIONS OR UNFORESEEN OR LATENT SITE CONDITIONS RELATED TO ANY CONDITIONS DISCOVERED DURING EXECUTION OF THE WORK.
5. UNLESS OTHERWISE SPECIFICALLY PROVIDED ON THE PLANS OR IN THE SPECIFICATIONS, THE ENGINEER HAS NOT PREPARED DESIGNS FOR AND SHALL HAVE NO RESPONSIBILITY FOR THE PRESENCE, DISCOVERY, REMOVAL, ABATEMENT, OR DISPOSAL OF HAZARDOUS MATERIALS, TOXIC WASTES, OR POLLUTANTS AT THE PROJECT SITE. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY CLAIMS OF LOSS, DAMAGE, EXPENSE, DELAY, INJURY, OR DEATH ARISING FROM THE PRESENCE OF HAZARDOUS MATERIAL AND CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ANY CLAIMS MADE IN CONNECTION THEREWITH. MOREOVER, THE ENGINEER SHALL HAVE NO ADMINISTRATIVE OBLIGATIONS OF ANY TYPE WITH REGARD TO ANY CONTRACTOR AMENDMENT INVOLVING THE ISSUES OF PRESENCE, DISCOVER, REMOVAL, ABATEMENT, OR DISPOSAL OR ASBESTOS OR OTHER HAZARDOUS MATERIALS.
6. THE CONTRACTOR SHALL DEMOLISH ALL BUILDINGS, PAVEMENT, ETC. WHERE INDICATED WITHIN THE LIMIT OF DISTURBANCE. EDGES OF PAVEMENT DEMOLITION SHALL BE SAW CUT. DEMOLISHED CONCRETE AND ASPHALT SHALL BE CRUSHED TO THE DIMENSIONS INDICATED IN THE PROJECT GEOTECHNICAL REPORT AND STOCKPILED FOR REUSE AS SITE FILL. ALL DEMOLITION AND MATERIAL REUSE SHALL BE IN ACCORDANCE WITH ENVIRONMENTAL REQUIREMENTS FOR THE SITE.
7. THE CONTRACTOR SHALL VERIFY THAT A SOIL EROSION AND SEDIMENT CONTROL PERMIT HAS BEEN OBTAINED FOR DEMOLITION ACTIVITIES. CONTRACTOR SHALL COMPLY WITH THE CONDITIONS THEREON BY INSTALLING AND MAINTAINING ALL SESC MEASURES AND MAKING REQUIRED NOTIFICATIONS.
8. PRIOR TO DEMOLITION, THE CONTRACTOR SHALL VERIFY THAT THE UTILITY SERVICES TO BE DEMOLISHED WILL NOT AFFECT OTHER SERVICES OUTSIDE THE CONTRACT LIMIT.
9. CONTRACTOR TO VERIFY THAT ALL ENVIRONMENTAL CONCERNS (ASBESTOS, LEAD BASED PAINT, HAZMAT MATERIALS, UNDERGROUND STORAGE TANKS, TRANSFORMERS, ETC.) HAVE BEEN REMOVED PRIOR TO COMMENCEMENT OF DEMOLITION ACTIVITIES. THESE POTENTIAL CONCERNS ARE NOT SHOWN ON THIS PLAN. THE CONTRACTOR SHALL REFER TO THE ENVIRONMENTAL REPORTS AND DOCUMENTS FOR ENVIRONMENTAL CONCERN LOCATIONS AND DISPOSAL PROCEDURES.

CONSTRUCTION SEQUENCING NOTES

BULK GRADING

1. THE CONTRACTOR SHALL FLAG THE DISTURBANCE LIMITS PRIOR TO THE COMMENCEMENT OF EACH PHASE TO ENSURE OVER CLEARING DOES NOT OCCUR.
2. INSTALL TREE PROTECTION MEASURES AS INDICATED ON THE PROJECT PLANS.
3. INSTALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES WITHIN THE DISTURBANCE LIMITS.
4. REMOVE EXISTING TREES, STUMPS, VEGETATION, AND ANY STRUCTURES INDICATED TO BE REMOVED WITHIN THE DISTURBANCE LIMITS IN ACCORDANCE WITH THE PROJECT PLANS. INSPECT AND REPAIR ANY DAMAGED EROSION CONTROL MEASURES. STOCKPILE EXCESS SOIL IN THE LOCATIONS SPECIFIED ON THE PLANS.
5. THE TEMPORARY SEDIMENT BASINS SHALL BE INSTALLED AT THE BEGINNING OF CUT AND FILL OPERATIONS. TEMPORARY DIVERSION MEASURES SHALL BE INSTALLED TO CONVEY STORMWATER RUNOFF TO THE PRACTICE.
6. AS BULK GRADING OPERATIONS PROGRESS, THE TEMPORARY SEDIMENT BASIN SHALL BE INSTALLED ALONG WITH TEMPORARY DIVERSION MEASURES TO CONVEY STORMWATER RUNOFF TO THE PRACTICE.
7. THE TEMPORARY SEDIMENT BASIN SHALL REMAIN IN PLACE UNTIL ALL SOIL DISTURBANCE ACTIVITIES HAVE BEEN COMPLETED.
8. ONCE ALL BULK GRADING ACTIVITIES HAVE BEEN COMPLETED, ANY COLLECTED SEDIMENT WITHIN THE TEMPORARY SEDIMENT BASINS SHALL BE REMOVED.
9. STABILIZE THE DISTURBED AREA PRIOR TO MOVING ONTO THE NEXT PHASE. THE BUILDING PAD WILL BE STABILIZED USING GRAVEL. THE PARKING AREA WILL BE STABILIZED USING SUBBASE MATERIAL. ALL OTHER AREAS WILL BE STABILIZED USING TEMPORARY SEED AND MULCH.

GENERAL CONSTRUCTION

1. BULK GRADING OPERATIONS SHALL OCCUR FIRST.
2. CONSTRUCT ALL SITE UTILITIES AND SERVICE CONNECTIONS AS SHOWN ON THE PROJECT PLANS. INSTALL INLET PROTECTION MEASURES AT ALL INLETS AND AT THE ENDS OF ALL EXPOSED STORMWATER PIPES AND RIP–RAP AT THE LOCATIONS SHOWN ON THE PROJECT PLANS.
3. PREPARE PAVEMENT SUBGRADE AND INSTALL SUBBASE MATERIAL. INLET PROTECTION MEASURES MAY BE REMOVED TEMPORARILY DURING THIS OPERATION, BUT NO MORE THAN 24 HOURS PRIOR TO PLACEMENT OF THE SUBBASE MATERIAL. INLET PROTECTION MEASURES SHALL BE REPLACED ONCE THE SUBBASE MATERIAL HAS BEEN INSTALLED.
4. FINALIZE PAVEMENT SUBGRADE PREPARATIONS.
5. FINISH GRADING AND STABILIZE ALL DISTURBED AREAS. ALL CATCH BASINS, DRAINAGE MANHOLES, AND DRAINAGE LINES SHALL BE CLEANED OF ANY ACCUMULATED SILT AND SEDIMENT.
6. REMOVE ALL ACCUMULATED SEDIMENT WITHIN THE TEMPORARY SEDIMENT BASINS. REMOVE THE TEMPORARY RISER AND RISER PIPE, INSTALL THE PERMANENT OUTLET CONTROL STRUCTURES. FINISH GRADING THE WATER QUALITY BASINS AND BIORETENTION AREAS. ALL PLANTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE PROJECT PLANS.
7. INSTALL PROPOSED CURBING AND BINDER COURSE.
8. PLACE PAVEMENT TOP COURSE AND PAVEMENT MARKINGS, AS APPROPRIATE.
9. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES. IMMEDIATELY STABILIZE THE AREAS DISTURBED DURING THEIR REMOVAL. ESTABLISH PERMANENT VEGETATIVE COVER AND INSTALL ALL LANDSCAPING.

SPDES GENERAL PERMIT COMPLIANCE NOTES

1. THE NOTICE OF INTENT (NOI) AND SIGNED MS4 SWPPP ACCEPTANCE FORM (IF APPLICABLE) SHALL BE FILED WITH THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC). A COPY OF THE NOI, SIGNED MS4 SWPPP ACCEPTANCE FORM (IF APPLICABLE), AND THE NOI ACKNOWLEDGEMENT SHALL BE MAINTAINED AT THE SITE IN THE LOG BOOK.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE FOLLOWING:
   A. THE CONTRACTOR AND HIS/HER SUBCONTRACTORS SHALL READ AND UNDERSTAND THE CONDITIONS OF THE NYSDEC SPDES GENERAL PERMIT FOR "STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES" (NYSDEC SPDES GENERAL PERMIT) IN EFFECT.
   B. THE CONTRACTOR AND HIS/HER SUBCONTRACTORS SHALL READ AND SIGN THE CERTIFICATION STATEMENT PROVIDED IN THE APPENDICES OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
   C. THE CONTRACTOR AND HIS/HER SUBCONTRACTORS SHALL IDENTIFY THE TRAINED INDIVIDUAL(S) THAT WILL BE RESPONSIBLE FOR THE IMPLEMENTATION AND MAINTENANCE OF THE SWPPP. THE TRAINED INDIVIDUAL(S) SHALL READ AND SIGN THE CERTIFICATION STATEMENT PROVIDED IN THE SWPPP. A COPY OF THE SIGNED CERTIFICATION STATEMENT SHALL BE PLACED IN THE SITE LOG BOOK AND GIVEN TO THE TOWN FOR THEIR RECORDS.
   D. THE TRAINED INDIVIDUAL(S) SHALL PROVIDE DOCUMENTATION THAT HE/SHE HAS RECEIVED TRAINING IN PROPER EROSION AND SEDIMENT CONTROL PRINCIPLES FROM A SOIL AND WATER CONSERVATION DISTRICT, OR OTHER NYSDEC ENDORSED ENTITY TO THE TOWN FOR THEIR RECORDS.
   E. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS NECESSARY FOR THE WORK OUTLINED HEREIN.
   F. THE TRAINED CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF ALL STORMWATER POLLUTION PREVENTION MEASURES OUTLINED IN THE SWPPP AND PROJECT PLANS.
   G. THE CONTRACTOR SHALL HOLD A PRE–CONSTRUCTION CONFERENCE WITH THE OWNER (AND/OR OWNER'S REPRESENTATIVES), TRAINED INDIVIDUAL(S), AND THE QUALIFIED PROFESSIONAL AT LEAST ONE WEEK PRIOR TO COMMENCEMENT OF CONSTRUCTION.
   H. THE CONTRACTOR OR OWNER SHALL HAVE THE QUALIFIED PROFESSIONAL, AS DEFINED WITHIN THE NYSDEC SPDES GENERAL PERMIT, CONDUCT AN INITIAL SITE ASSESSMENT AND CERTIFY THAT THE APPROPRIATE EROSION AND SEDIMENT CONTROL STRUCTURES AS DEPICTED ON THE PLANS HAVE BEEN ADEQUATELY INSTALLED AND IMPLEMENTED PRIOR TO COMMENCEMENT OF CONSTRUCTION. REFER TO SWPPP FOR THE INITIAL SITE ASSESSMENT GUIDELINES.
   I. THE CONTRACTOR SHALL MAINTAIN A RECORD OF ALL EROSION AND SEDIMENT CONTROL INSPECTION REPORTS AT THE SITE IN A LOG BOOK. THE SITE LOG BOOK SHALL BE MAINTAINED ON–SITE AND BE MADE AVAILABLE TO THE PERMITTING AUTHORITY.
3. ONCE CONSTRUCTION ACTIVITIES ARE COMPLETE, THE OWNER/OPERATOR SHALL HAVE A QUALIFIED PROFESSIONAL CONDUCT A FINAL SITE ASSESSMENT TO DETERMINE IF THE SITE MEETS THE FINAL STABILIZATION CRITERIA AS DEFINED WITHIN THE NYSDEC SPDES GENERAL PERMIT. IF THE SITE IS DETERMINED TO MET THE FINAL STABILIZATION CRITERIA, A NOTICE OF TERMINATION (NOT) SHALL BE COMPLETED AND SUBMITTED TO THE NYSDEC TO TERMINATE COVERAGE UNDER THE SPDES GENERAL PERMIT.

POLLUTION PREVENTION CONTROL NOTES

GOOD HOUSEKEEPING PRACTICES ARE DESIGNED TO MAINTAIN A CLEAN AND ORDERLY WORK ENVIRONMENT. GOOD HOUSEKEEPING MEASURES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS BY THOSE PARTIES INVOLVED WITH THE DIRECT CARE AND DEVELOPMENT OF THE SITE. THE FOLLOWING MEASURES SHOULD BE IMPLEMENTED TO CONTROL THE POSSIBLE EXPOSURE OF HARMFUL SUBSTANCES AND MATERIALS TO STORMWATER RUNOFF:

1. MATERIAL RESULTING FROM THE CLEARING AND GRUBBING OPERATION SHALL BE STOCKPILED AWAY FROM STORM DRAINAGE, WATER BODIES AND/OR WATERCOURSES AND SURROUNDED WITH ADEQUATE EROSION AND SEDIMENT CONTROL MEASURES. SOIL STOCKPILE LOCATIONS SHALL BE EXPOSED NO LONGER THAN 14 DAYS BEFORE SEEDING.
2. EQUIPMENT MAINTENANCE AREAS SHALL BE PROTECTED FROM STORMWATER FLOWS AND SHALL BE SUPPLIED WITH APPROPRIATE WASTE RECEPTACLES FOR SPENT CHEMICALS, SOLVENTS, OILS, GREASES, GASOLINE, AND ANY POLLUTANTS THAT MIGHT CONTAMINATE THE SURROUNDING HABITAT AND/OR WATER SUPPLY. EQUIPMENT WASH–DOWN ZONES SHALL BE LOCATED WITHIN AREAS DRAINING TO SEDIMENT CONTROL DEVICES.
3. THE USE OF DETERGENTS FOR LARGE–SCALE (I.E., VEHICLES, BUILDINGS, PAVEMENT SURFACES, ETC.) WASHING IS PROHIBITED.
4. MATERIAL STORAGE LOCATIONS AND FACILITIES (I.E., COVERED STORAGE AREAS, STORAGE SHEDS, ETC.) SHALL BE LOCATED ON–SITE AND SHALL BE STORED ACCORDING TO THE MANUFACTURER'S STANDARDS IN A DEDICATED STAGING AREA. CHEMICALS, PAINTS, SOLVENTS, FERTILIZERS, AND OTHER TOXIC MATERIAL MUST BE STORED IN WATERPROOF CONTAINERS. RUNOFF CONTAINING SUCH MATERIALS MUST BE COLLECTED, REMOVED FROM THE SITE, TREATED AND DISPOSED AT AN APPROVED SOLID WASTE OR CHEMICAL DISPOSAL FACILITY.
5. HAZARDOUS SPILLS SHALL BE IMMEDIATELY CONTAINED TO PREVENT SUCH POLLUTANTS FROM ENTERING THE SURROUNDING HABITAT AND/OR WATER SUPPLY. SPILL KITS SHALL BE PROVIDED ON–SITE AND SHALL BE DISPLAYED IN A PROMINENT LOCATION FOR EMPLOYEE ACCESS AND USE. SPILLS GREATER THAN FIVE (5) GALLONS SHALL BE REPORTED TO THE NYSDEC RESPONSE UNIT AT 1–800–457–7362. IN ADDITION, A RECORD OF THE INCIDENT(S) AND/OR NOTIFICATIONS SHALL BE DOCUMENTED AND ATTACHED TO THE SWPPP.
6. PORTABLE SANITARY WASTE FACILITIES SHALL BE PROVIDED ON–SITE FOR WORKERS AND SHALL BE PROPERLY MAINTAINED.
7. DUMPSTERS AND/OR DEBRIS CONTAINERS SHALL BE LOCATED ON–SITE AND SHALL BE OF ADEQUATE SIZE TO MANAGE RESPECTIVE MATERIALS. REGULAR COLLECTION AND DISPOSAL OF WASTES SHALL OCCUR AS REQUIRED.
8. TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE LOCATED A MINIMUM OF 50 FEET FROM STORM DRAIN INLETS, OPEN DRAINAGE FACILITIES, AND WATERCOURSES. EACH FACILITY SHOULD BE LOCATED AWAY FROM CONSTRUCTION TRAFFIC OR ACCESS AREAS TO PREVENT DISTURBANCE OR TRACKING. A SIGN SHOULD BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES. WHEN TEMPORARY CONCRETE WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE SHALL BE REMOVED AND DISPOSED OF. MATERIALS USED TO CONSTRUCT THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE REMOVED AND DISPOSED OF. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE BACKFILLED AND/OR REPAIRED, SEEDED, AND MULCHED FOR FINAL STABILIZATION.
9. NON–STORMWATER COMPONENTS OF SITE DISCHARGE MUST BE CLEAN WATER. WATER USED FOR CONSTRUCTION, WHICH DISCHARGES FROM THE SITE, MUST ORIGINATE FROM A PUBLIC WATER SUPPLY OR PRIVATE WELL APPROVED BY THE HEALTH DEPARTMENT. WATER USED FOR CONSTRUCTION THAT DOES NOT ORIGINATE FROM AN APPROVED PUBLIC SUPPLY MUST NOT DISCHARGE FROM THE SITE. IT CAN BE RETAINED IN THE TEMPORARY SEDIMENT BASINS UNTIL IT EVAPORATES.
10. DISCHARGES FROM DEWATERING ACTIVITIES, INCLUDING DISCHARGES FROM DEWATERING TRENCHES AND EXCAVATIONS, MUST BE MANAGED BY APPROPRIATE CONTROL MEASURES.
11. WASTEWATER DISCHARGES FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS, AND OTHER CONSTRUCTION MATERIALS IS PROHIBITED.

EROSION & SEDIMENT CONTROL NOTES

1. REFER TO THE SPDES GENERAL PERMIT COMPLIANCE NOTES FOR ADDITIONAL REQUIREMENTS.
2. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE IN STRICT COMPLIANCE WITH "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL", LATEST REVISIONS.
3. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, ALL EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH THE PLANS. SITE PREPARATION ACTIVITIES SHALL BE PLANNED TO MINIMIZE THE SCOPE AND DURATION OF SOIL DISRUPTION. EXISTING VEGETATION SHALL BE PRESERVED AS MUCH AS IS PRACTICAL.
4. THE CONTRACTOR AND HIS/HER SUBCONTRACTOR(S) SHALL IDENTIFY THE TRAINED INDIVIDUAL THAT WILL BE RESPONSIBLE FOR THE IMPLEMENTATION AND MAINTENANCE OF THE EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT THE DURATION OF CONSTRUCTION.
5. PERMANENT TRAFFIC CORRIDORS SHALL BE ESTABLISHED AND "ROUTES OF CONVENIENCE" SHALL BE AVOIDED. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT ALL POINTS OF ENTRY ONTO THE PROJECT SITE.
6. DAMAGE TO SURFACE WATERS RESULTING FROM EROSION AND SEDIMENTATION SHALL BE MINIMIZED BY STABILIZING DISTURBED AREAS AND BY REMOVING SEDIMENT FROM CONSTRUCTION SITE DISCHARGES.
7. STOCKPILED TOPSOIL SHALL BE PROPERLARILY SEEDED, MULCHED, AND ENCLOSED WITH SILT FENCING. ALL GRASS SEED WILL CONTAIN AT LEAST 25 PERCENT RAPID GERMINATING PERENNIAL RYE GRASS.
8. EROSION AND SEDIMENT CONTROL INSPECTIONS:
   A. THE TRAINED INDIVIDUAL SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL MEASURES ON A DAILY BASIS TO ENSURE PROPER PERFORMANCE. ANY SEDIMENT BUILD–UP SHALL BE REMOVED, AND ANY DAMAGES TO EROSION AND SEDIMENT CONTROLS SHALL BE REPAIRED EITHER AT THE BEGINNING OR AT THE END OF EACH WORKING DAY.
   B. THE QUALIFIED INSPECTOR SHALL CONDUCT SITE INSPECTIONS EVERY 7 DAYS DURING CONSTRUCTION. ANY DEFICIENCIES NOTED IN THE REPORTS SHALL BE CORRECTED IMMEDIATELY BY THE CONTRACTOR.
   C. IF SOIL DISTURBANCE ACTIVITIES ARE SUSPENDED FOR WINTER SHUTDOWN, TEMPORARY STABILIZATION MEASURES WILL BE APPLIED TO ALL DISTURBED AREAS. IN THIS CASE AND SUBJECT TO THE APPROVAL OF THE NYSDEC AND THE TOWN, THE FREQUENCY OF INSPECTIONS BY THE QUALIFIED PROFESSIONAL MAY BE REDUCED TO AT LEAST ONE INSPECTION EVERY 30 CALENDAR DAYS.
   D. IF NYSDEC OR THE TOWN AUTHORIZES SOIL DISTURBANCES GREATER THAN 5–ACRES, THE QUALIFIED PROFESSIONAL WILL CONDUCT AT LEAST 2 SITE INSPECTIONS, SEPARATED BY AT LEAST 2 CALENDAR DAYS, IN EACH 7 CALENDAR DAYS TO ENSURE STABILITY AND EFFECTIVENESS OF ALL PROTECTIVE MEASURES AND PRACTICES UNTIL SUCH TIME THAT LESS THAN 5–ACRES OF SOIL REMAIN DISTURBED.
9. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST BY SPRINKLING EXPOSED SOIL AREAS PERIODICALLY WITH WATER AS REQUIRED. THE CONTRACTOR IS TO SUPPLY ALL EQUIPMENT AND WATER.
10. EARTHWORK ACTIVITIES SHALL BE CONSISTENT WITH THE PLANS. THE EARTHWORK OPERATION AREAS SHALL BE STABILIZED ON AN ONGOING BASIS WITH NO AREAS, WHICH ARE NOT CURRENTLY UNDER CONSTRUCTION, LEFT WITHOUT AT LEAST TEMPORARY COVER FOR MORE THAN 48 HOURS.
11. EROSIVE MATERIAL TEMPORARILY STOCKPILED ON THE SITE DURING THE CONSTRUCTION PROCESS SHALL BE LOCATED IN AN AREA AWAY FROM STORM DRAINAGE AND SHALL BE PROPERLY PROTECTED BY A SURROUNDING SILT FENCE BARRIER.
12. FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES IN ANY PORTION OF THE SITE, PERMANENT VEGETATION SHALL BE ESTABLISHED ON ALL EXPOSED SOILS.
13. IF CONSTRUCTION TAKES PLACE IN "WET SOILS", CURTAIN DRAINS OR SUBSURFACE DRAINAGE SHALL BE INSTALLED TO DEWATER THE SOILS. DEWATERING DISCHARGES WILL NOT BE DIRECTED INTO WETLANDS, WATER COURSES, WATER–BODIES, OR STORM SEWER SYSTEMS.
15. TEMPORARY DRAINAGE SWALES WITH A MINIMUM GRADE OF ONE PERCENT SHALL BE INSTALLED TO DIRECT RUNOFF AWAY FROM EXCAVATED AREAS. SWALES SHALL BE INSTALLED WITH STAKED AND SECURED HAY BALE BERMS TO PREVENT DOWNSTREAM SILTATION. LOCATION OF THE DRAINAGE SWALES AND HAY BALES WILL BE AT THE DIRECTION OF THE TOWN ENGINEER. SILT FENCE SHALL BE PROPERLY INSTALLED DOWN GRADE OF ALL DISTURBED AREAS. SILT FENCE SHALL BE INSTALLED ALONG CONTOURS TO FILTER SEDIMENT FROM RUNOFF. INSPECTION SHOULD BE FREQUENT AND REPAIR OR REPLACEMENT SHOULD BE MADE PROMPTLY AS NEEDED. SILT FENCE SHOULD BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE ST

OSWEGO ROAD

LIVERPOOL BYPASS

TOWN OF SALINA
TOWN OF CLAY

75'-FT SIDE YARD SETBACK

75'-FT REAR YARD SETBACK

DRY DETENTION BASIN #1

BIORETENTION BASIN #4

22 TRAILER PARKING SPACES

24 TRAILER PARKING SPACES

26 TRAILER PARKING SPACES

34 TRAILER PARKING SPACES

WET EXTENDED DETENTION POND #1

BIORETENTION BASIN #2

CONSPAN O-SERIES CULVERT AND RETAINING WALL FOR STREAM CROSSING

GUARD HOUSE

SAW MILL CREEK

75 TRAILER PARKING SPACES

46 LOADING DOCKS

177.2 FT

WATER TANK

POTENTIAL WATER TANK

BIORETENTION BASIN #3

CONSPAN O-SERIES CULVERT AND RETAINING WALL FOR STREAM CROSSING

PROPOSED DISTRIBUTION FACILITY

BUILDING FOOTPRINT = 823,522 SF
62 LOADING DOCKS
208 TRAILER PARKING SPACES
1804 CAR PARKING SPACES
16 MOTORCYCLE PARKING SPACES

627.33 FT

16 LOADING DOCKS

27 TRAILER PARKING SPACES

BIORETENTION BASIN #1

1297.33 FT

662.2 FT

479 CAR PARKING SPACES

CULVERT FOR DITCH CROSSING

200'-FT FRONT YARD SETBACK (ALONG COUNTY ROAD)

SMOKER'S SHELTER

DROP-OFF SHELTER

MAIN ENTRANCE

435 CAR PARKING SPACES

133.1 FT

238 CAR PARKING SPACES

318 CAR PARKING SPACES

334 CAR PARKING SPACES

238.6 FT

MONUMENT SIGN (TYP.)

200'-FT FRONT YARD SETBACK (ALONG COUNTY ROAD)

MORGAN ROAD

SCALE: 1 IN = 100 FEET

Date	Description	No.
REVISIONS		

STATE OF NEW YORK
RICHARD B. BURROW
082168
LICENSED PROFESSIONAL ENGINEER

SIGNATURE

OCT 0 2 2019
DATE SIGNED

RICHARD B. BURROW
PROFESSIONAL ENGINEER NY Lic. No. 082168

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
PROPOSED DISTRIBUTION FACILITY PROJECT
SECTION 114, BLOCK 1, LOT 2.3
TOWN OF CLAY
ONONDAGA COUNTY NEW YORK

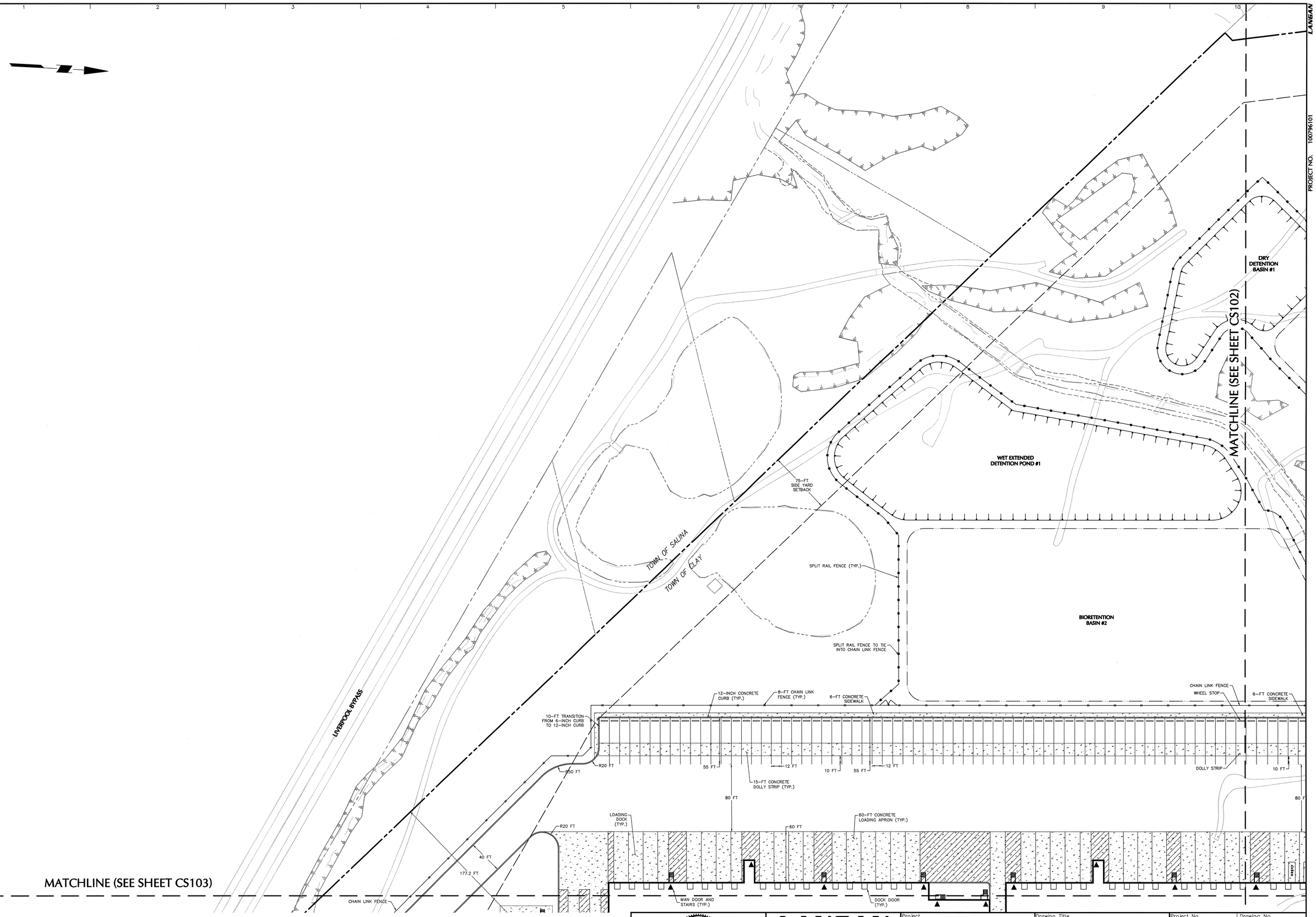
Drawing Title
OVERALL SITE PLAN

Project No.	Drawing No.
100796101	CS100
Date: 10/02/2019	
Drawn By: JRS	
Checked By: TLK	

PROJECT NO. 100796101

WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

Filename: \\langan.com\data\PAR\data1\100796101\Project Data\CAD\01Sheet Files\Site Plan Approval\100796101-CS100-0101.dwg Date: 10/2/2019 Time: 17:56 User: ahartingsmith Style Table: Langan.stb Layout: CS100



WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

SCALE: 1 INCH = 40 FEET

Date	Description	No.
REVISIONS		

STATE OF NEW YORK — RICHARD B. JURGEN — 082105 — LICENSED PROFESSIONAL ENGINEER

SIGNATURE — OCT 02 2019 — DATE SIGNED

RICHARD B. JURGEN
PROFESSIONAL ENGINEER NY Lic. No. 082168

LANGAN

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

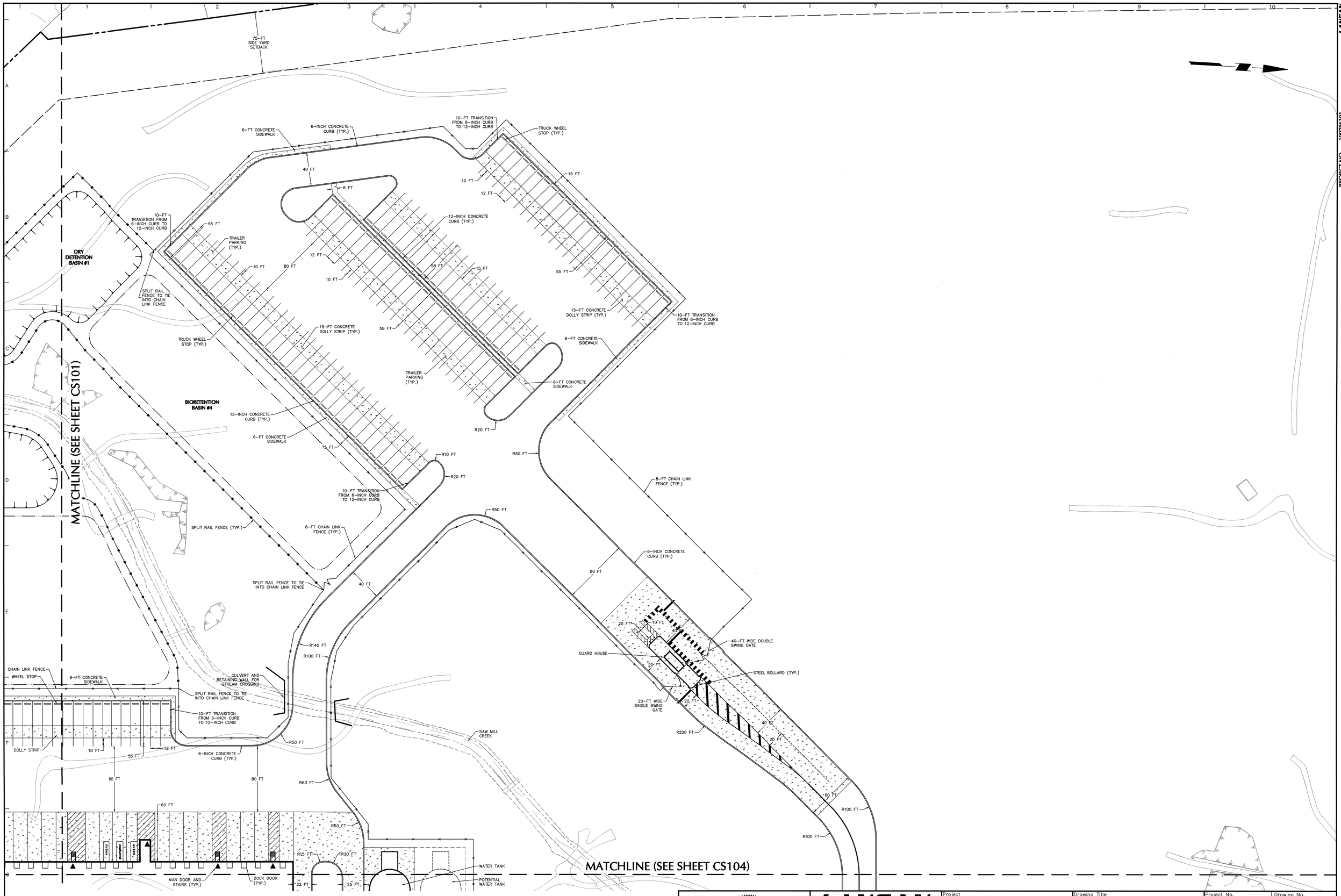
Project
PROPOSED DISTRIBUTION FACILITY PROJECT
SECTION 114. BLOCK 1, LOT 2.3
TOWN OF CLAY
ONONDAGA COUNTY NEW YORK

Drawing Title
SITE PLAN (1 OF 4)

Project No.	Drawing No.
100796101	CS101
Date: 10/02/2019	
Drawn By: JRS	
Checked By: TLK	

LANGAN
PROJECT NO. 100796101

Filename: \\langan.com\data\PAR\data11\100796101\Project Data\CAD\01Sheet Files\Site Plan Approval\100796101-CS101-0101.dwg Date: 10/2/2019 Time: 17:56 User: shartingsmith Style Table: Langan.stb Layout: CS101



WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

SCALE: 1 INCH = 40 FEET

Date	Description	No.
REVISIONS		

STATE OF NEW YORK — RICHARD T. GOODRICH — LICENSED PROFESSIONAL ENGINEER

SIGNATURE — DATE SIGNED: OCT 0 2 2019

RICHARD T. GOODRICH
PROFESSIONAL ENGINEER NY Lic. No. 082168

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
PROPOSED DISTRIBUTION FACILITY PROJECT
SECTION 114, BLOCK 1, LOT 2.3
TOWN OF CLAY
ONONDAGA COUNTY NEW YORK

Drawing Title
SITE PLAN (2 OF 4)

Project No.	Drawing No.
100796101	CS102
Date: 10/02/2019	
Drawn By: JRS	
Checked By: TLK	

Filename: \\langan.com\data\PAR\data\100796101\Project Data\CAD\01Sheet Files\Site Plan Approval\100796101-CS101-0101.dwg Date: 10/2/2019 Time: 17:56 User: shartingsmith Style Table: Langan.stb Layout: CS102
© 2019 Langan

LANGAN
PROJECT NO. 100796101

MATCHLINE (SEE SHEET CS101)

MATCHLINE (SEE SHEET CS104)

CHAIN LINK FENCE
PLYWALL FENCE TO TIE INTO CHAIN LINK FENCE
R50 FT
R100 FT
R20 FT
60-FT CONCRETE LOADING APRON (TYP.)
MAN DOOR AND STAIRS (TYP.)
80 FT
SPLIT RAIL FENCE TO TIE INTO PLYWALL FENCE
10-FT TRANSITION FROM 6-INCH CURB TO 12-INCH CURB
LOADING DOCK (TYP.)
6-FT CONCRETE SIDEWALK
12-FT PLYWALL SOUND FENCE
DOCK DOOR (TYP.)
LIVERPOOL BYPASS
10 FT
55 FT
60 FT
15-FT CONCRETE DOLLY STRIP (TYP.)
BIORETENTION BASIN #1
SPLIT RAIL FENCE (TYP.)
CULVERT FOR DITCH CROSSING
R30 FT
SPLIT RAIL GATE (TYP.)
STOP SIGN (TYP.)
STOP BAR (TYP.)
5 FT CURB CUT
36-FT WIDE DOUBLE SWING GATE
SPLIT RAIL FENCE TO TIE INTO CHAIN LINK FENCE
18 FT
R10 FT
R20 FT
10 FT (TYP.)
12 FT (TYP.)
55 FT
STEEL GUIDERAIL (TYP.)
TIE INTO EXISTING CURB (TYP.)
GATE
6-INCH CONCRETE CURB (TYP.)
8-FT CHAIN LINK FENCE (TYP.)
10-FT TRANSITION FROM 6-INCH CURB TO 12-INCH CURB
24 FT
R28 FT
8-FT STRIPED PEDESTRIAN CROSSWAY (TYP.)
20 FT
SPEED BUMP (TYP.)
CONCRETE SIDEWALK
200-FT FRONT YARD SETBACK (ALONG COUNTY ROAD)
R8 FT
WHEEL STOP (TYP.)
9 FT (TYP.)
SPEED BUMP (TYP.)
10 FT (TYP.)
133.1 FT
R30 FT
MAIN ENTRANCE
BIKE RACK
16 MOTORCYCLE PARKING SPACES
R20 FT
R44 FT
FLAG POLE
SPEED TABLE
ADA PARKING SIGN (TYP.)
R4 FT
R18 FT
22 FT
8-FT CONCRETE SIDEWALK
7-FT PVC FENCE
ADA RAMP (TYP.)
ADA PARKING SPACE (TYP.)
10 FT
236.6 FT
6-INCH CONCRETE CURB (TYP.)
MONUMENT SIGN
MORGAN ROAD
PROPOSED SIGNALIZED INTERSECTION

WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

SCALE: 1 INCH = 40 FEET

Date	Description	No.
REVISIONS		

STATE OF NEW YORK RICHARD BURROW 082168 LICENSED PROFESSIONAL ENGINEER
OCT 02 2019
SIGNATURE DATE SIGNED
RICHARD BURROW
PROFESSIONAL ENGINEER NY Lic. No. 082168

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
PROPOSED DISTRIBUTION FACILITY PROJECT
SECTION 114, BLOCK 1, LOT 2.3
TOWN OF CLAY
ONONDAGA COUNTY NEW YORK

Drawing Title
SITE PLAN (3 OF 4)

Project No.	Drawing No.
100796101	CS103
Date: 10/02/2019	
Drawn By: JRS	
Checked By: TLK	

PROJECT NO. 100796101

© 2019 Langan

Filename: \\langan.com\data\PAR\data1\100796101\Project Data\CAD\01\SheetFiles\Site Plan Approval\100796101-CS101-101.dwg Date: 10/2/2019 Time: 17:56 User: ahartingsmith Style Table: Langan.stb Layout: CS103

MATCHLINE (SEE SHEET CS102)

MATCHLINE (SEE SHEET CS103)

WATER TANK

POTENTIAL WATER TANK

MAN DOOR AND STAIRS (TYP.)

DOCK DOOR (TYP.)

22 FT

25 FT

SPLIT RAIL FENCE TO TIE INTO CHAIN LINK FENCE

20-FT WIDE DOUBLE SWING GATE

SPLIT RAIL GATE

EMERGENCY GRAVEL ACCESS PATH

BIORETENTION BASIN #3

SPLIT RAIL FENCE (TYP.)

40 FT

STEEL GUIDERAIL (TYP.)

CULVERT AND RETAINING WALL FOR STREAM CROSSING

75-FT SIDE YARD SETBACK

8-FT PLYWALL SOUND FENCE

13 FT

20 FT

10 FT (TYP.)

22 FT

R18 FT

24 FT

R8 FT

BARRIER FENCE (TYP.)

WHEEL STOP (TYP.)

R4 FT

R10 FT

R15 FT

STOP BAR (TYP.)

662.2 FT

8-FT CONCRETE SIDEWALK

SPEED BUMP (TYP.)

MAN DOOR (TYP.)

8-FT STRIPED PEDESTRIAN CROSSWAY (TYP.)

CONCRETE SIDEWALK

DROP-OFF SHELTER

5 FT

18 FT

BUS DROP-OFF AREA

R20 FT

R44 FT

STOP SIGN (TYP.)

200-FT FRONT YARD SETBACK (ALONG COUNTY ROAD)

6-INCH CONCRETE CURB (TYP.)

MONUMENT SIGN

4-INCH DOUBLE YELLOW STRIPE (TYP.)

40.8 FT

R55 FT

TIE INTO EXISTING CURB (TYP.)

STOP BAR (TYP.)

PROPOSED SIGNALIZED INTERSECTION

WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

40 0 10 25 40
SCALE: 1 INCH = 40 FEET

Date	Description	No.
REVISIONS		

STATE OF NEW YORK · RICHARD BURROW · 082168 · LICENSED PROFESSIONAL ENGINEER

SIGNATURE OCT 0 2 2019 DATE SIGNED

RICHARD BURROW
PROFESSIONAL ENGINEER NY Lic. No. 082168

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
PROPOSED DISTRIBUTION FACILITY PROJECT
SECTION 114, BLOCK 1, LOT 2.3
TOWN OF CLAY
ONONDAGA COUNTY NEW YORK

Drawing Title
SITE PLAN (4 OF 4)

Project No.	Drawing No.
100796101	CS104
Date: 10/02/2019	
Drawn By: JRS	
Checked By: TLK	

PROJECT NO. 100796101

LANGAN

©2019 Langan

Filename: \\langan.com\data\PAR\data1\100796101\Project Data\CAD\01\SheetFiles\Site Plan Approval\100796101-CS101-0101.dwg Date: 10/2/2019 Time: 17:56 User: ahartingsmith Style Table: Langan.stb Layout: CS104

OSWEGO ROAD

LIVERPOOL BYPASS

TOWN OF SALINA
TOWN OF CLAY

LEGEND

- CAR PARKING (LIGHT DUTY ASPHALT)
- TRAILER PARKING (HEAVY DUTY ASPHALT)
- ACCESS DRIVES AND TRUCK COURT (HEAVY DUTY ASPHALT)
- LOADING DOCK/DOLLY PAD (HEAVY DUTY CONCRETE PAVEMENT)

PROPOSED DISTRIBUTION FACILITY

BUILDING FOOTPRINT = 823,522 SF
62 LOADING DOCKS
208 TRAILER PARKING SPACES
1804 CAR PARKING SPACES
16 MOTORCYCLE PARKING SPACES

MORGAN ROAD

WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

SCALE IN FEET: 100 0 50 100

Date	Description	No.
REVISIONS		

STATE OF NEW YORK · RICHARD T. BURROW · 082168 · LICENSED PROFESSIONAL ENGINEER

SIGNATURE — DATE SIGNED: OCT 0 2 2019

RICHARD T. BURROW
PROFESSIONAL ENGINEER NY Lic. No. 082168

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project: **PROPOSED DISTRIBUTION FACILITY PROJECT**
SECTION 114, BLOCK 1, LOT 2.3
TOWN OF CLAY
ONONDAGA COUNTY NEW YORK

Drawing Title: **PAVEMENT PLAN**

Project No.	Drawing No.
100796101	CS110
Date: 10/02/2019	
Drawn By: JRS	
Checked By: TLK	

LANGAN PROJECT NO. 100796101

© 2019 Langan

Filename: \\langan.com\data\NY\PA\data11\100796101\Project Data\CAD\01\Sheet Files\Site Plan Approval\100796101-CS110-0101.dwg Date: 10/2/2019 Time: 17:57 User: ahartingsmith Style Table: Langan.stb Layout: CS110

Sign Face Legend

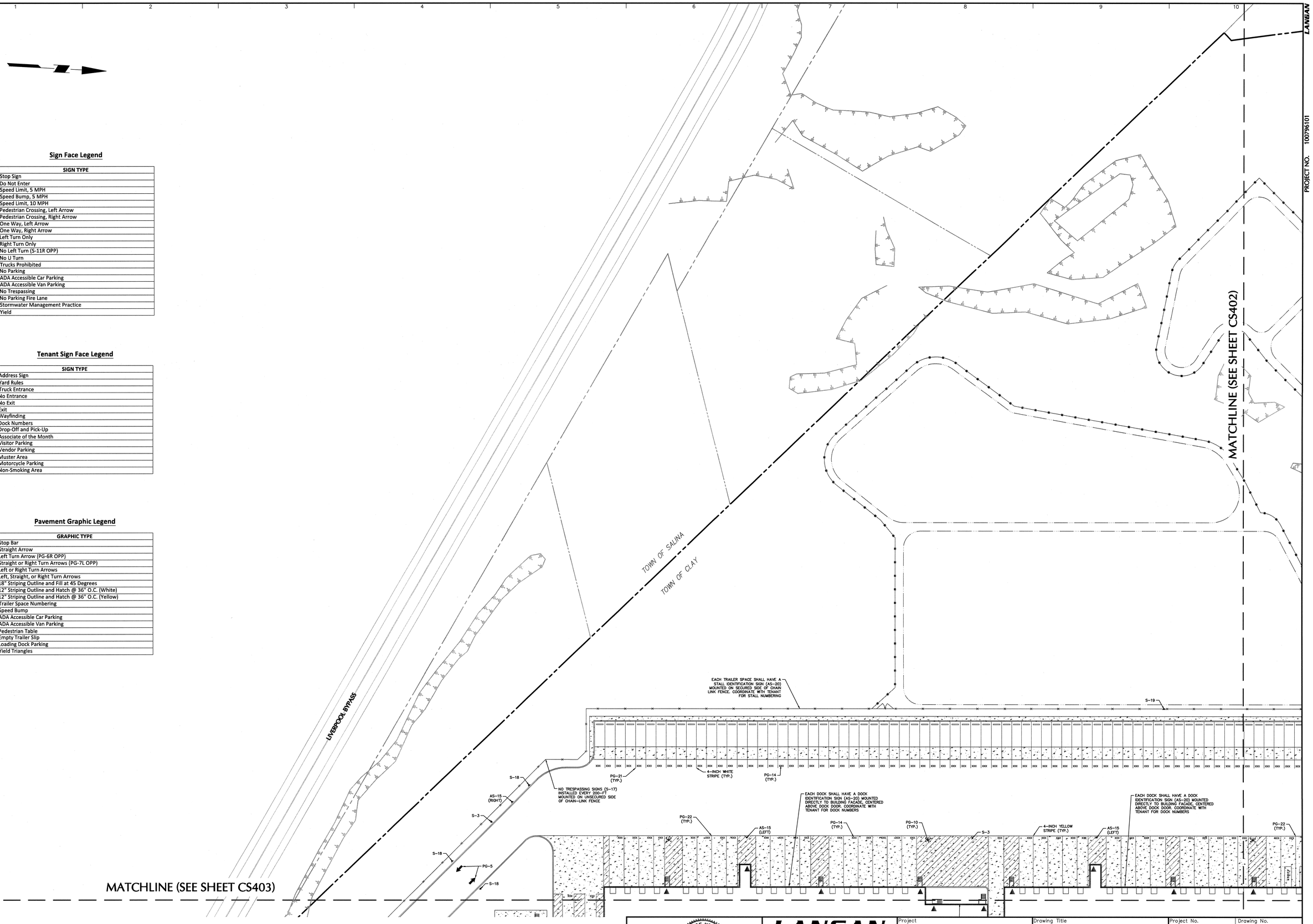
SYMBOL	SIGN TYPE
S-1	Stop Sign
S-2	Do Not Enter
S-3	Speed Limit, 5 MPH
S-3 (mod)	Speed Bump, 5 MPH
S-4	Speed Limit, 10 MPH
S-5	Pedestrian Crossing, Left Arrow
S-6	Pedestrian Crossing, Right Arrow
S-7	One Way, Left Arrow
S-8	One Way, Right Arrow
S-9	Left Turn Only
S-10	Right Turn Only
S-11L	No Left Turn (S-11R OPP)
S-12	No U Turn
S-13	Trucks Prohibited
S-14	No Parking
S-15	ADA Accessible Car Parking
S-16	ADA Accessible Van Parking
S-17	No Trespassing
S-18	No Parking Fire Lane
S-19	Stormwater Management Practice
S-20	Yield

Tenant Sign Face Legend

SYMBOL	SIGN TYPE
AS-1	Address Sign
AS-5	Yard Rules
AS-6	Truck Entrance
AS-13	No Entrance
AS-14	No Exit
AS-15	Exit
AS-16	Wayfinding
AS-20	Dock Numbers
AS-22	Drop-Off and Pick-Up
AS-23	Associate of the Month
AS-24	Visitor Parking
AS-25	Vendor Parking
AS-26	Muster Area
AS-29	Motorcycle Parking
AS-30	Non-Smoking Area

Pavement Graphic Legend

SYMBOL	GRAPHIC TYPE
PG-1	Stop Bar
PG-5	Straight Arrow
PG-6L	Left Turn Arrow (PG-6R OPP)
PG-7R	Straight or Right Turn Arrows (PG-7L OPP)
PG-8	Left or Right Turn Arrows
PG-9	Left, Straight, or Right Turn Arrows
PG-10	18" Striping Outline and Fill at 45 Degrees
PG-11	12" Striping Outline and Hatch @ 36" O.C. (White)
PG-12	12" Striping Outline and Hatch @ 36" O.C. (Yellow)
PG-14	Trailer Space Numbering
PG-16	Speed Bump
PG-17	ADA Accessible Car Parking
PG-18	ADA Accessible Van Parking
PG-20	Pedestrian Table
PG-21	Empty Trailer Slip
PG-22	Loading Dock Parking
PG-30	Yield Triangles



WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

SCALE: 1 INCH = 40 FEET

Date	Description	No.
REVISIONS		

STATE OF NEW YORK — RICHARD BORROW — 082168 — LICENSED PROFESSIONAL ENGINEER

SIGNATURE — DATE SIGNED OCT 0 2 2019

RICHARD BORROW
PROFESSIONAL ENGINEER NY Lic. No. 082168

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27995400

Project
PROPOSED DISTRIBUTION FACILITY PROJECT
SECTION 114, BLOCK 1, LOT 2.3
TOWN OF CLAY
ONONDAGA COUNTY NEW YORK

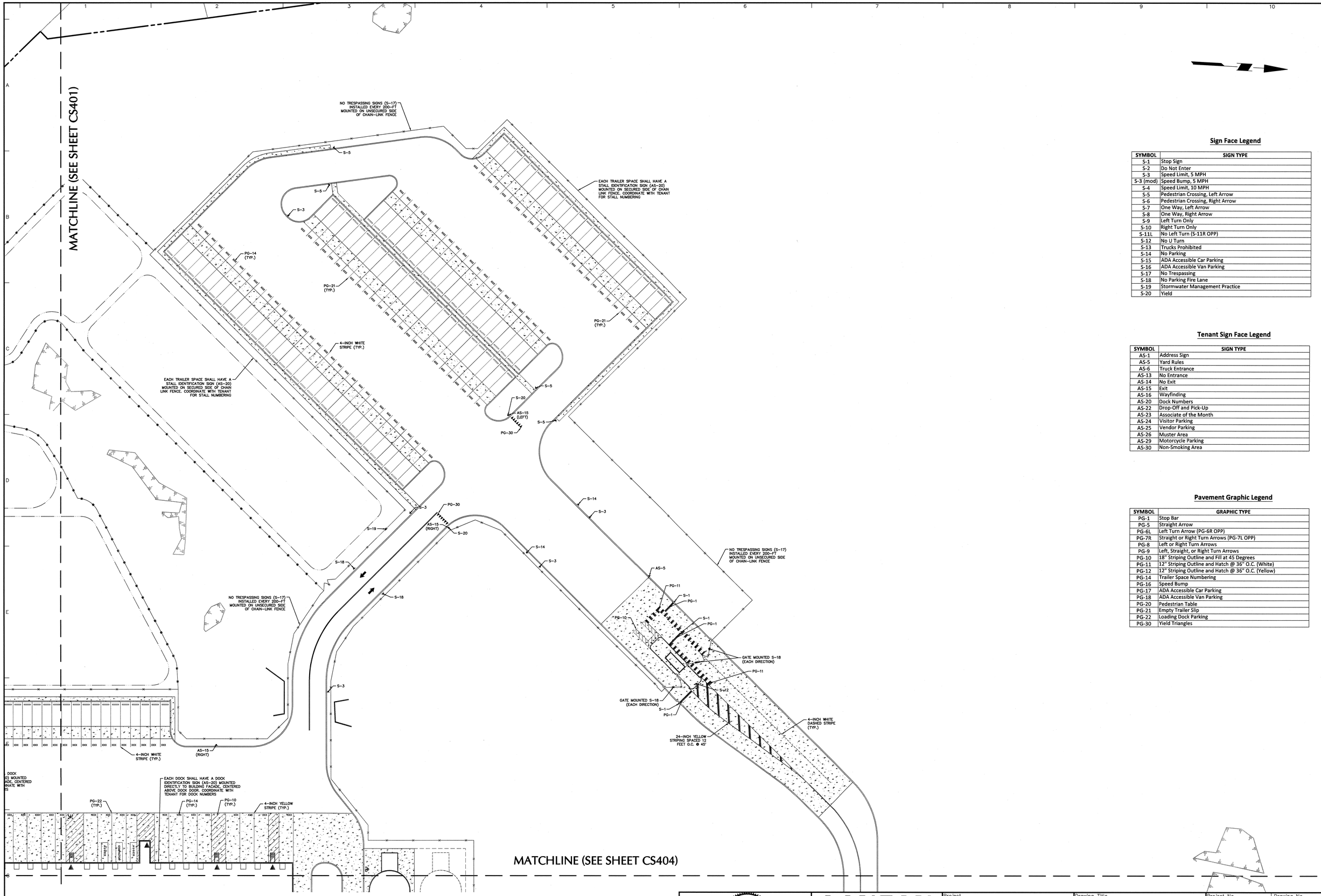
Drawing Title
SIGNAGE & STRIPING PLAN (1 OF 4)

Project No.	100796101
Date	10/02/2019
Drawn By	JRS
Checked By	TLK

Drawing No. CS401

PROJECT NO. 100796101

Filename: \\langan.com\data\PAR\data1\100796101\Project Data\CADD\01\Sheet Files\Site Plan Approval\100796101-CS401-0101.dwg Date: 10/2/2019 Time: 17:57 User: shartingsmith Style Table: Langan.stb Layout: CS401



Sign Face Legend

SYMBOL	SIGN TYPE
S-1	Stop Sign
S-2	Do Not Enter
S-3	Speed Limit, 5 MPH
S-3 (mod)	Speed Bump, 5 MPH
S-4	Speed Limit, 10 MPH
S-5	Pedestrian Crossing, Left Arrow
S-6	Pedestrian Crossing, Right Arrow
S-7	One Way, Left Arrow
S-8	One Way, Right Arrow
S-9	Left Turn Only
S-10	Right Turn Only
S-11L	No Left Turn (S-11R OPP)
S-12	No U Turn
S-13	Trucks Prohibited
S-14	No Parking
S-15	ADA Accessible Car Parking
S-16	ADA Accessible Van Parking
S-17	No Trespassing
S-18	No Parking Fire Lane
S-19	Stormwater Management Practice
S-20	Yield

Tenant Sign Face Legend

SYMBOL	SIGN TYPE
AS-1	Address Sign
AS-5	Yard Rules
AS-6	Truck Entrance
AS-13	No Entrance
AS-14	No Exit
AS-15	Exit
AS-16	Wayfinding
AS-20	Dock Numbers
AS-22	Drop-Off and Pick-Up
AS-23	Associate of the Month
AS-24	Visitor Parking
AS-25	Vendor Parking
AS-26	Muster Area
AS-29	Motorcycle Parking
AS-30	Non-Smoking Area

Pavement Graphic Legend

SYMBOL	GRAPHIC TYPE
PG-1	Stop Bar
PG-5	Straight Arrow
PG-6L	Left Turn Arrow (PG-6R OPP)
PG-7R	Straight or Right Turn Arrows (PG-7L OPP)
PG-8	Left or Right Turn Arrows
PG-9	Left, Straight, or Right Turn Arrows
PG-10	18" Striping Outline and Fill at 45 Degrees
PG-11	12" Striping Outline and Hatch @ 36" O.C. (White)
PG-12	12" Striping Outline and Hatch @ 36" O.C. (Yellow)
PG-14	Trailer Space Numbering
PG-16	Speed Bump
PG-17	ADA Accessible Car Parking
PG-18	ADA Accessible Van Parking
PG-20	Pedestrian Table
PG-21	Empty Trailer Slip
PG-22	Loading Dock Parking
PG-30	Yield Triangles

WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

SCALE: 1 INCH = 40 FEET

Date	Description	No.
	REVISIONS	

STATE OF NEW YORK — RICHARD BURROW — 082168 — LICENSED PROFESSIONAL ENGINEER
SIGNATURE — DATE SIGNED OCT 02 2019
RICHARD BURROW
PROFESSIONAL ENGINEER NY Lic. No. 082168

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
PROPOSED DISTRIBUTION FACILITY PROJECT
SECTION 114, BLOCK 1, LOT 2.3
TOWN OF CLAY
ONONDAGA COUNTY NEW YORK

Drawing Title
SIGNAGE & STRIPING PLAN (2 OF 4)

Project No.	Drawing No.
100796101	CS402
Date: 10/02/2019	
Drawn By: JRS	
Checked By: TLK	

LANGAN
PROJECT NO. 100796101

Filename: \\langan.com\data\PAR\data1\100796101\Project Data\CAD\01\sheetFiles\Site Plan Approval\100796101-CS401-0101.dwg Date: 10/2/2019 Time: 17:57 User: ahartingsmith Style Table: Langan.stb Layout: CS402

MATCHLINE (SEE SHEET CS401)

MATCHLINE (SEE SHEET CS404)

COORDINATE ALL LOCATIONS OF BUILDING MOUNTED SIGNS WITH ARCHITECT

LIVERPOOL BYPASS

NO TRESPASSING SIGNS (S-17) INSTALLED EVERY 200-FT MOUNTED ON UNSECURED SIDE OF CHAIN-LINK FENCE

EACH TRAILER SPACE SHALL HAVE A STALL IDENTIFICATION SIGN (AS-20) MOUNTED ON SECURED SIDE OF CHAIN LINK FENCE. COORDINATE WITH TENANT FOR STALL NUMBERING

EACH DOCK SHALL HAVE A DOCK IDENTIFICATION SIGN (AS-20) MOUNTED DIRECTLY TO BUILDING FACADE, CENTERED ABOVE DOCK DOOR. COORDINATE WITH TENANT FOR DOCK NUMBERS

COORDINATE ALL LOCATIONS OF BUILDING MOUNTED SIGNS WITH ARCHITECT

GATE MOUNTED S-18 (EACH DIRECTION)

AS-13 ON OUTSIDE OF GATE
AS-14 ON INSIDE OF GATE

4-INCH YELLOW DOUBLE STRIPE (TYP.)

4-INCH WHITE STRIPE (TYP.)

4-INCH YELLOW STRIPE (TYP.)

NO TRESPASSING SIGNS (S-17) INSTALLED EVERY 200-FT MOUNTED ON UNSECURED SIDE OF FENCE

AS-30 (COORDINATE FINAL LOCATION WITH ARCHITECT)

S-3 (MOD) BOTH SIDES

MONUMENT SIGN

MORGAN ROAD

Sign Face Legend

SYMBOL	SIGN TYPE
S-1	Stop Sign
S-2	Do Not Enter
S-3	Speed Limit, 5 MPH
S-3 (mod)	Speed Bump, 5 MPH
S-4	Speed Limit, 10 MPH
S-5	Pedestrian Crossing, Left Arrow
S-6	Pedestrian Crossing, Right Arrow
S-7	One Way, Left Arrow
S-8	One Way, Right Arrow
S-9	Left Turn Only
S-10	Right Turn Only
S-11L	No Left Turn (S-11R OPP)
S-12	No U Turn
S-13	Trucks Prohibited
S-14	No Parking
S-15	ADA Accessible Car Parking
S-16	ADA Accessible Van Parking
S-17	No Trespassing
S-18	No Parking Fire Lane
S-19	Stormwater Management Practice
S-20	Yield

Tenant Sign Face Legend

SYMBOL	SIGN TYPE
AS-1	Address Sign
AS-5	Yard Rules
AS-6	Truck Entrance
AS-13	No Entrance
AS-14	No Exit
AS-15	Exit
AS-16	Wayfinding
AS-20	Dock Numbers
AS-22	Drop-Off and Pick-Up
AS-23	Associate of the Month
AS-24	Visitor Parking
AS-25	Vendor Parking
AS-26	Muster Area
AS-29	Motorcycle Parking
AS-30	Non-Smoking Area

Pavement Graphic Legend

SYMBOL	GRAPHIC TYPE
PG-1	Stop Bar
PG-5	Straight Arrow
PG-6L	Left Turn Arrow (PG-6R OPP)
PG-7R	Straight or Right Turn Arrows (PG-7L OPP)
PG-8	Left or Right Turn Arrows
PG-9	Left, Straight, or Right Turn Arrows
PG-10	18" Striping Outline and Fill at 45 Degrees
PG-11	12" Striping Outline and Hatch @ 36" O.C. (White)
PG-12	12" Striping Outline and Hatch @ 36" O.C. (Yellow)
PG-14	Trailer Space Numbering
PG-16	Speed Bump
PG-17	ADA Accessible Car Parking
PG-18	ADA Accessible Van Parking
PG-20	Pedestrian Table
PG-21	Empty Trailer Slip
PG-22	Loading Dock Parking
PG-30	Yield Triangles

WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

SCALE: 1 INCH = 40 FEET

Date	Description	No.
REVISIONS		

STATE OF NEW YORK · RICHARD BURROW · 082168 · LICENSED PROFESSIONAL ENGINEER

SIGNATURE OCT 0 2 2019 DATE SIGNED

RICHARD BURROW
PROFESSIONAL ENGINEER NY Lic. No. 082168

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
PROPOSED DISTRIBUTION FACILITY PROJECT
SECTION 114, BLOCK 1, LOT 2.3
TOWN OF CLAY
ONONDAGA COUNTY NEW YORK

Drawing Title
SIGNAGE & STRIPING PLAN (3 OF 4)

Project No.	Drawing No.
100796101	CS403
Date: 10/02/2019	
Drawn By: JRS	
Checked By: TLK	

LANGAN
PROJECT NO. 100796101

© 2019 Langan

Filename: \\langan.com\data\PAR\data1\100796101\Project Data\CADD\SheetFiles\Site Plan Approval\100796101-CS401-0101.dwg Date: 10/2/2019 Time: 17:57 User: ahartingsmith Style Table: Langan.stb Layout: CS403

MATCHLINE (SEE SHEET CS402)

MATCHLINE (SEE SHEET CS403)

Sign Face Legend

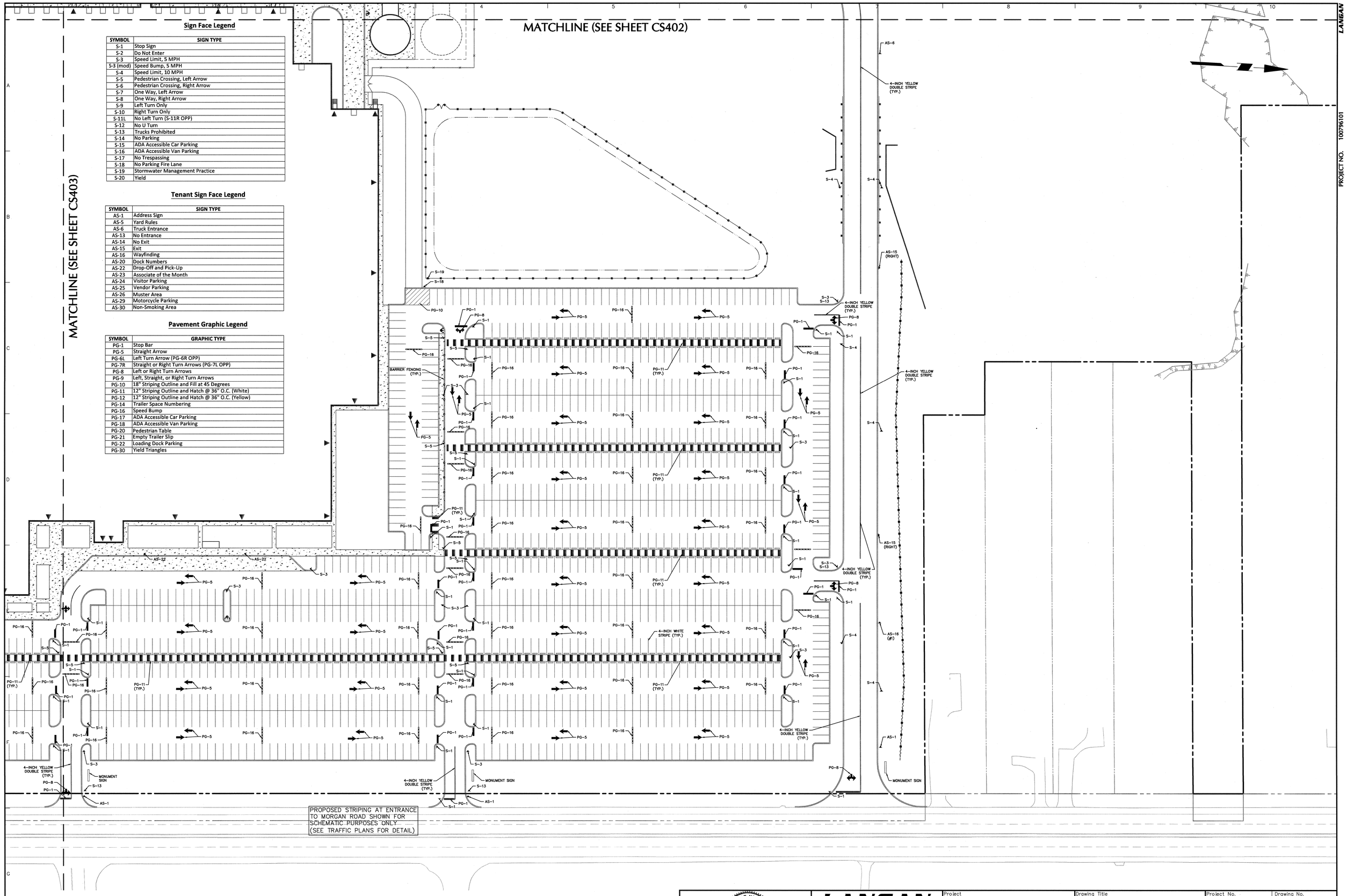
SYMBOL	SIGN TYPE
S-1	Stop Sign
S-2	Do Not Enter
S-3	Speed Limit, 5 MPH
S-3 (mod)	Speed Bump, 5 MPH
S-4	Speed Limit, 10 MPH
S-5	Pedestrian Crossing, Left Arrow
S-6	Pedestrian Crossing, Right Arrow
S-7	One Way, Left Arrow
S-8	One Way, Right Arrow
S-9	Left Turn Only
S-10	Right Turn Only
S-11L	No Left Turn (S-11R OPP)
S-12	No U Turn
S-13	Trucks Prohibited
S-14	No Parking
S-15	ADA Accessible Car Parking
S-16	ADA Accessible Van Parking
S-17	No Trespassing
S-18	No Parking Fire Lane
S-19	Stormwater Management Practice
S-20	Yield

Tenant Sign Face Legend

SYMBOL	SIGN TYPE
AS-1	Address Sign
AS-5	Yard Rules
AS-6	Truck Entrance
AS-13	No Entrance
AS-14	No Exit
AS-15	Exit
AS-16	Wayfinding
AS-20	Dock Numbers
AS-22	Drop-Off and Pick-Up
AS-23	Associate of the Month
AS-24	Visitor Parking
AS-25	Vendor Parking
AS-26	Muster Area
AS-29	Motorcycle Parking
AS-30	Non-Smoking Area

Pavement Graphic Legend

SYMBOL	GRAPHIC TYPE
PG-1	Stop Bar
PG-5	Straight Arrow
PG-6L	Left Turn Arrow (PG-6R OPP)
PG-7R	Straight or Right Turn Arrows (PG-7L OPP)
PG-8	Left or Right Turn Arrows
PG-9	Left, Straight, or Right Turn Arrows
PG-10	18" Striping Outline and Fill at 45 Degrees
PG-11	12" Striping Outline and Hatch @ 36" O.C. (White)
PG-12	12" Striping Outline and Hatch @ 36" O.C. (Yellow)
PG-14	Trailer Space Numbering
PG-16	Speed Bump
PG-17	ADA Accessible Car Parking
PG-18	ADA Accessible Van Parking
PG-20	Pedestrian Table
PG-21	Empty Trailer Slip
PG-22	Loading Dock Parking
PG-30	Yield Triangles



WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

SCALE: 1 INCH = 40 FEET

Date	Description	No.
REVISIONS		

STATE OF NEW YORK — RICHARD BURROW — 082168 — LICENSED PROFESSIONAL ENGINEER

SIGNATURE — DATE SIGNED: OCT 0 2 2019

RICHARD T. BURROW
PROFESSIONAL ENGINEER NY Lic. No. 082168

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
PROPOSED DISTRIBUTION FACILITY PROJECT
SECTION 114, BLOCK 1, LOT 2.3
TOWN OF CLAY
ONONDAGA COUNTY NEW YORK

Drawing Title
SIGNAGE & STRIPING PLAN (4 OF 4)

Project No.	Drawing No.
100796101	CS404
Date: 10/02/2019	
Drawn By: JRS	
Checked By: TLK	

PROJECT NO. 100796101

Filename: \\langan.com\data\PAR\data1\100796101\Project Data\CAD\01SheetFiles\Site Plan Approval\100796101-CS401-2101.dwg Date: 10/2/2019 Time: 17:57 User: shartingsmith Style Table: Langan.stb Layout: CS404
©2019 Langan

OSWEGO ROAD

LIVERPOOL BYPASS

TOWN OF SALINA
TOWN OF CLAY

DRY DETENTION BASIN #1
TOP OF BASIN: 405.00
BOTTOM OF BASIN: 400.00

BIORETENTION BASIN #4 (WITH LINER)
TOP OF BASIN: 406.00
BOTTOM OF BASIN: 402.75

SEDIMENT FOREBAY

WET EXTENDED DETENTION POND #1
TOP OF POND: 407.00
NWSE: 400.00
BOTTOM OF POND: 397.50

SEDIMENT FOREBAY

BIORETENTION BASIN #2 (WITH LINER)
TOP OF BASIN: 406.00
BOTTOM OF BASIN: 401.00

CULVERT FOR STREAM CROSSING

CULVERT FOR STREAM CROSSING

BIORETENTION BASIN #3
TOP OF BASIN: 411.00
BOTTOM OF BASIN: 408.50

PROPOSED DISTRIBUTION FACILITY
BUILDING FOOTPRINT = 823,522 SF
62 LOADING DOCKS
208 TRAILER PARKING SPACES
1804 CAR PARKING SPACES
16 MOTORCYCLE PARKING SPACES
F.F.E. 415.5 ±

BIORETENTION BASIN #1 (WITH LINER)
TOP OF BASIN: 407.50
BOTTOM OF BASIN: 405.25

CULVERT FOR DITCH CROSSING

MORGAN ROAD

SCALE: 1 IN = 100 FEET

WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

Date	Description	No.
REVISIONS		

STATE OF NEW YORK RICHARD BURROW 082168 REGISTERED PROFESSIONAL ENGINEER

SIGNATURE DATE SIGNED OCT 02 2019

RICHARD BURROW
PROFESSIONAL ENGINEER NY Lic. No. 082168

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
PROPOSED DISTRIBUTION FACILITY PROJECT
SECTION 114. BLOCK 1, LOT 2.3
TOWN OF CLAY
ONONDAGA COUNTY NEW YORK

Drawing Title
OVERALL GRADING & DRAINAGE PLAN

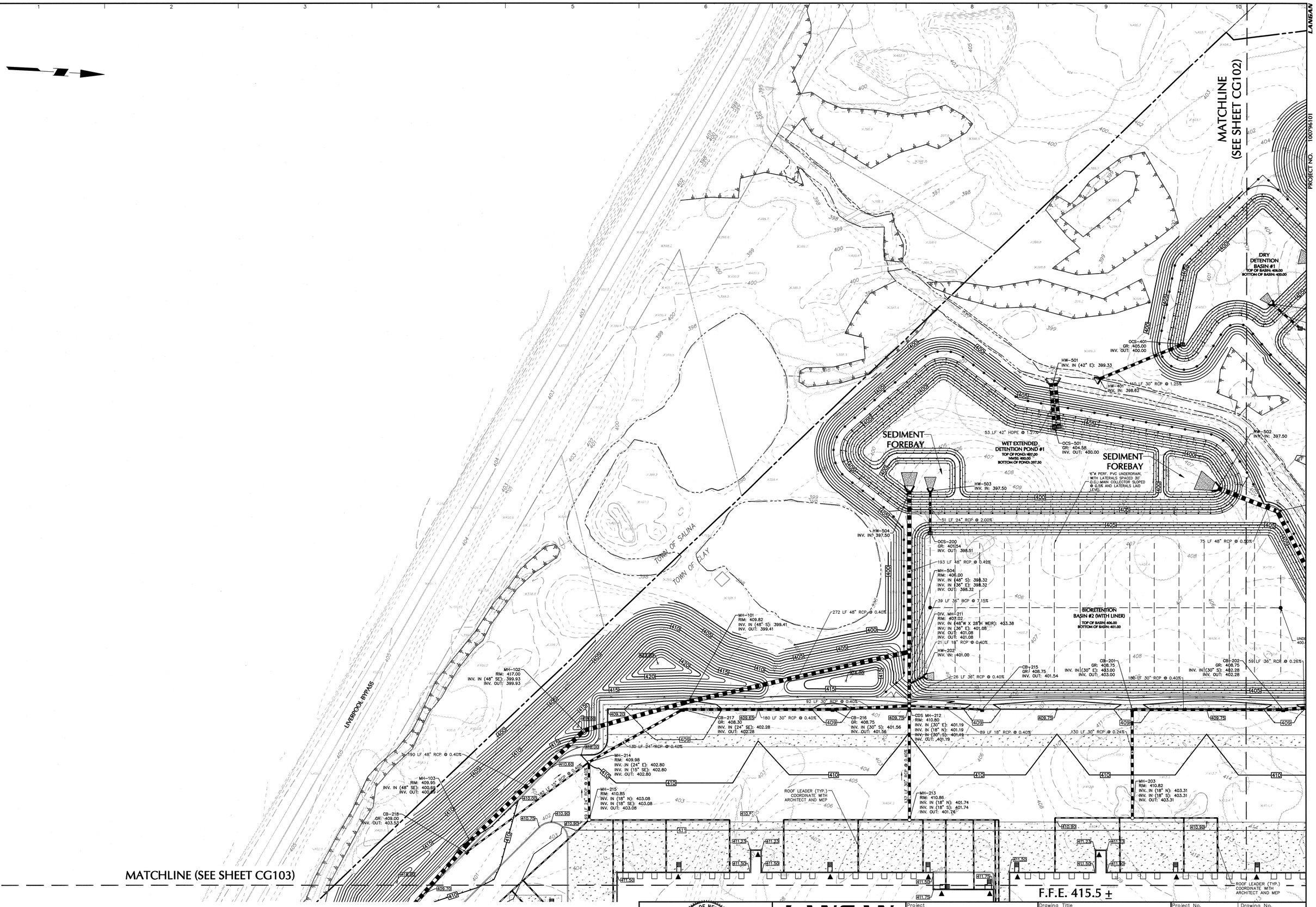
Project No.	100796101
Date	10/02/2019
Drawn By	JRS
Checked By	TLK

Drawing No. **CG100**

LANGAN PROJECT NO. 100796101

© 2019 LANGAN

Filename: \\langan.com\data\PAR\data\r\100796101\Project Data\CAD\01\Sheet Files\Site Plan Approval\100796101-CG100-0101.dwg Date: 10/2/2019 Time: 17:58 User: ahartingsmith Style Table: Langan.stb Layout: CG100



WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

40 0 10 25 40
SCALE: 1 INCH = 40 FEET

Date	Description	No.
REVISIONS		

STATE OF NEW YORK
RICHARD BURROW
082168
LICENSED PROFESSIONAL ENGINEER

SIGNATURE OCT 02 2019 DATE SIGNED
RICHARD BURROW
PROFESSIONAL ENGINEER NY Lic. No. 082168

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
PROPOSED DISTRIBUTION FACILITY PROJECT
SECTION 114, BLOCK 1, LOT 2.3
TOWN OF CLAY
ONONDAGA COUNTY NEW YORK

Drawing Title
GRADING & DRAINAGE PLAN (1 OF 4)

Project No.	100796101
Date	10/02/2019
Drawn By	JRS
Checked By	TLK

Drawing No. CG101

LANGAN PROJECT NO. 100796101

Filename: \\langan.com\data\PAR\data1\100796101\Project Data\CAD\01SheetFiles\Site Plan Approval\100796101-CG101-0101.dwg Date: 10/2/2019 Time: 17:58 User: ahartingsmith Style Table: Langan.stb Layout: CG101

MATCHLINE (SEE SHEET CG101)

DRY DETENTION BASIN #1
TOP OF BASIN: 406.00
BOTTOM OF BASIN: 400.00

BIORETENTION BASIN #4 (WITH LINER)
TOP OF BASIN: 406.00
BOTTOM OF BASIN: 402.75

CULVERT FOR STREAM CROSSING

MATCHLINE (SEE SHEET CG104)

ROOF LEADER (TYP.) COORDINATE WITH ARCHITECT AND MEP

UNDERDRAIN EL=400.61

WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

SCALE: 1 INCH = 40 FEET

Date	Description	No.
REVISIONS		

SIGNATURE
RICHARD BURDON
PROFESSIONAL ENGINEER NY Lic. No. 082168
DATE SIGNED OCT 0 2 2019

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
PROPOSED DISTRIBUTION FACILITY PROJECT
SECTION 114, BLOCK 1, LOT 2.3
TOWN OF CLAY
ONONDAGA COUNTY NEW YORK

Drawing Title
GRADING & DRAINAGE PLAN (2 OF 4)

Project No.	Drawing No.
100796101	CG102
Date: 10/02/2019	
Drawn By: JRS	
Checked By: TLK	

PROJECT NO. 100796101

Filename: \\langan.com\data\PAR\data\t\100796101\Project Data\CAD\01Sheet Files\Site Plan Approval\100796101-CG101-0101.dwg Date: 10/2/2019 Time: 17:58 User: ahartingsmith Style Table: Langan.stb Layout: CG102

MATCHLINE (SEE SHEET CG101)

MATCHLINE (SEE SHEET CG104)

CULVERT FOR DITCH CROSSING

LIVERPOOL BYPASS

MORGAN ROAD

F.F.E. 415.5 ±

ROOF LEADER (TYP.) COORDINATE WITH ARCHITECT AND MEP

BIORETENTION BASIN #1 (WITH LINER)
TOP OF BASIN: 407.30
BOTTOM OF BASIN: 405.25

UNDERDRAIN ELEV. 403.64

6" ø PERF. PVC UNDERDRAIN, WITH LATERALS SPACED 10' O.C., MAIN COLLECTOR SLOPED @ 0.5% AND LATERALS LAID LEVEL

MH-104
RIM: 410.47
INV. IN (48" E): 401.46
INV. OUT: 401.46

102 LF 48" RCP @ 0.40%

MH-105
RIM: 411.01
INV. IN (48" S): 401.87
INV. OUT: 401.87

87 LF 48" RCP @ 0.40%

MH-106
RIM: 412.32
INV. IN (42" E): 402.57
INV. IN (30" SE): 402.06
INV. OUT: 402.06

80 LF 30" RCP @ 0.40%

CDS-101
GR: 405.75
INV. OUT: 402.30

186 LF 42" RCP @ 1.50%

DIV. MH-107
RIM: 411.75
INV. IN (48"W X 28"H WEIR): 407.50
INV. IN (45° N): 405.36
INV. IN (30° E): 405.36
INV. OUT: 405.36

27 LF 24" RCP @ 0.40%

HW-101
INV. IN: 405.25

59 LF 30" RCP @ 0.40%

CDS MH-108
RIM: 412.19
INV. IN (30" NE): 405.59
INV. OUT: 405.59

MH-601
INV. IN: 401.80

58 LF 42" RCP @ 2.10%

100 LF 30" RCP @ 0.40%

142 LF 15" RCP @ 0.40%

CB-102
GR: 410.74
INV. OUT: 406.86

134 LF 24" RCP @ 0.40%

CB-104
GR: 411.84
INV. OUT: 407.40

141 LF 15" RCP @ 0.40%

CB-106
GR: 412.25
INV. OUT: 407.71

91 LF 15" RCP @ 0.40%

194 LF 48" RCP @ 0.40%

CB-111
GR: 409.85
INV. OUT: 406.63

83 LF 15" RCP @ 0.40%

MH-111
RIM: 410.44
INV. IN (15" W): 406.30
INV. OUT: 406.30

48 LF 30" CONC. @ 0.40%

CB-110
GR: 409.85
INV. IN (30" W): 406.11
INV. OUT: 406.11

132 LF 38" CONC. @ 0.40%

CDS CB-109
GR: 409.50
INV. IN (45° N): 405.58
INV. IN (38° W): 405.58
INV. OUT: 405.58

55 LF 45" CONC. @ 0.40%

74 LF 30" RCP @ 0.40%

MH-109
RIM: 410.72
INV. IN (30" E): 405.89
INV. OUT: 405.89

CB-103
GR: 412.60
INV. OUT: 406.66

MH-110
RIM: 413.63
INV. IN (15" N): 406.29
INV. IN (15" S): 406.29
INV. IN (24" E): 406.29
INV. OUT: 406.29

92 LF 15" RCP @ 0.40%

MH-120
RIM: 413.67
INV. IN (18" E): 406.83
INV. IN (15" S): 406.83
INV. IN (15" N): 406.83
INV. OUT: 406.83

92 LF 15" RCP @ 0.40%

MH-121
RIM: 413.60
INV. IN (15" S): 407.34
INV. IN (18" N): 407.34
INV. OUT: 407.34

92 LF 18" RCP @ 0.40%

CB-107
GR: 412.65
INV. OUT: 407.71

MH-114
RIM: 410.77
INV. IN (24" N): 406.71
INV. OUT: 406.71

53 LF 24" RCP @ 0.20%

MH-115
RIM: 411.33
INV. IN (18" E): 406.82
INV. IN (18" W): 406.82
INV. OUT: 406.82

190 LF 24" RCP @ 0.39%

70 LF 45" CONC. @ 0.40%

MH-112
RIM: 410.72
INV. IN (30" E): 405.86
INV. IN (24" W): 405.96
INV. IN (24" N): 405.96
INV. OUT: 405.86

MH-113
RIM: 411.33
INV. IN (18" E): 406.07
INV. IN (18" W): 406.07
INV. OUT: 406.07

53 LF 24" RCP @ 0.20%

MH-116
RIM: 413.10
INV. IN (30" N): 406.81
INV. OUT: 406.81

174 LF 30" RCP @ 0.40%

MH-117
RIM: 414.88
INV. IN (18" E): 407.51
INV. IN (30" N): 407.51
INV. OUT: 407.51

159 LF 30" RCP @ 0.40%

CB-112
GR: 412.30
INV. IN (18" NW): 408.15
INV. IN (30" NE): 408.15
INV. OUT: 408.15

57 LF 30" RCP @ 0.40%

102 LF 24" RCP @ 0.40%

MH-119
GR: 414.13
INV. IN (18" N): 408.79
INV. IN (24" E): 408.79
INV. OUT: 408.79

CB-212
GR: 413.40
INV. IN (45° S): 408.53
INV. OUT: 408.53

265 LF 42" RCP @ 0.40%

70 LF 18" RCP @ 0.40%

CB-108
GR: 413.05
INV. OUT: 407.79

MH-118
RIM: 413.97
INV. IN (24" N): 408.38
INV. IN (18" SE): 408.35
INV. OUT: 408.38

74 LF 18" RCP @ 0.40%

CB-113
GR: 413.15
INV. OUT: 408.64

62 LF 24" RCP @ 0.40%

CB-214
GR: 413.35
INV. IN (18" W): 409.58
INV. OUT: 409.58

135 LF 38" CONC. @ 0.40%

CB-114
GR: 413.45
INV. OUT: 409.04

CB-213
GR: 413.35
INV. IN (38" S): 409.04
INV. OUT: 409.04

126 LF 45" CONC. @ 0.40%

87 LF 15" RCP @ 0.40%

CB-211
GR: 416.63
INV. OUT: 408.67

WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

SCALE: 1 INCH = 40 FEET

Date	Description	No.
REVISIONS		

STATE OF NEW YORK · RICHARD B. BUSH · 082168 · LICENSED PROFESSIONAL ENGINEER

SIGNATURE — OCT 02 2019 — DATE SIGNED

RICHARD B. BUSH
PROFESSIONAL ENGINEER NY Lic. No. 082168

LANGAN

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
PROPOSED DISTRIBUTION FACILITY PROJECT
SECTION 114. BLOCK 1, LOT 2.3
TOWN OF CLAY
ONONDAGA COUNTY NEW YORK

Drawing Title
GRADING & DRAINAGE PLAN (3 OF 4)

Project No.	Drawing No.
100796101	CG103
Date: 10/02/2019	
Drawn By: JRS	
Checked By: TLK	

PROJECT NO. 100796101

LANGAN

©2019 Langan

Filename: I:\langan.com\data\PAR\data\t\100796101\Project Data\CAD\01Sheet Files\Site Plan Approval\100796101-CG101-0101.dwg Date: 10/2/2019 Time: 17:58 User: ahartingsmith Style Table: Langan.stb Layout: CG103

MATCHLINE (SEE SHEET CG102)

MATCHLINE (SEE SHEET CG103)

ROOF LEADER (TYP.) COORDINATE WITH ARCHITECT AND MEP

F.F.E. 415.5 ±

CULVERT FOR STREAM CROSSING

BIORETENTION BASIN #3
TOP OF BASIN: 411.00
BOTTOM OF BASIN: 408.50

5" PERF. PVC UNDERDRAIN WITH LATERALS SPACED 30' O.C., MAIN COLLECTOR SLOPED @ 0.5% AND LATERALS LAID LEVEL

UNDERDRAIN ELEV. 405.48

90 LF 48" RCP @ 0.40%
95 LF 36" RCP @ 0.50%
70 LF 36" RCP @ 0.50%
70 LF 48" RCP @ 0.40%
MH-303
RIM: 412.17
INV. IN (36" NE): 401.06
INV. OUT: 401.06

MH-304
RIM: 412.23
INV. IN (36" E): 401.18
INV. IN (24" NE): 403.17
INV. OUT: 401.41

MH-206
RIM: 412.24
INV. IN (48" NE): 403.77
INV. OUT: 403.02

83 LF 24" RCP @ 1.00%
OCS-301
GR: 409.00
INV. OUT: 404.00
241 LF 36" RCP @ 0.51%
251 LF 48" RCP @ 0.40%
MH-305
RIM: 413.54
INV. IN (36" N): 402.42
INV. OUT: 402.42
CB-303
RIM: 412.60
INV. OUT: 409.26
144 LF 36" RCP @ 4.30%
20 LF 36" RCP @ 0.36%
HW-301
INV. IN: 408.50
27 LF 24" RCP @ 0.40%
CDS CB-304
GR: 414.10
INV. IN (18" N): 409.11
INV. OUT: 409.11
CB-305
GR: 414.15
INV. IN (15" N): 409.72
INV. OUT: 409.72
CB-306
GR: 415.55
INV. IN (15" E): 410.18
INV. OUT: 410.18
MH-208
RIM: 413.32
INV. IN (60" E): 405.05
INV. OUT: 405.05
DIV. CB-302
RIM: 414.00
INV. IN (48"W X 37"H WEIR): 411.66
INV. IN (24" N): 408.61
INV. IN (36" E): 408.61
INV. OUT: 408.61
126 LF 24" RCP @ 0.40%
153 LF 18" RCP @ 0.40%
113 LF 15" RCP @ 0.40%
54 LF 15" RCP @ 0.40%
145 LF 15" RCP @ 0.40%
CDS MH-306
RIM: 414.20
INV. IN (30" E): 408.68
INV. IN (15" S): 408.68
INV. OUT: 408.68
CB-307
RIM: 416.60
INV. OUT: 410.40
238 LF 30" RCP @ 0.40%
ROOF LEADER (TYP.) COORDINATE WITH ARCHITECT AND MEP
238 LF 60" CONC. @ 0.40%
CB-205
GR: 412.50
INV. IN (24" N): 406.00
INV. IN (60" E): 406.00
INV. OUT: 406.00
MH-210
RIM: 414.87
INV. IN (42" SE): 407.47
INV. OUT: 407.47
62 LF 60" CONC. @ 0.40%
CB-204
GR: 413.86
INV. OUT: 406.27
CB-308
GR: 414.01
INV. IN (36" E): 409.63
INV. IN (18" N): 409.63
INV. OUT: 409.63
CB-309
GR: 414.60
INV. IN (18" N): 410.58
INV. OUT: 410.58
CB-310
GR: 415.54
INV. IN (15" NE): 411.73
INV. OUT: 411.73
CB-311
GR: 417.05
INV. IN (15" SE): 412.73
INV. OUT: 412.73
126 LF 18" RCP @ 0.75%
153 LF 18" RCP @ 0.75%
133 LF 15" RCP @ 0.75%
48 LF 15" RCP @ 0.75%
268 LF 48" RCP @ 0.40%
68 LF 24" RCP @ 0.40%
218 LF 38" CONC. @ 0.40%
MH-209
RIM: 414.30
INV. IN (42" E): 406.25
INV. IN (48" S): 406.40
INV. OUT: 406.25
163 LF 42" RCP @ 0.40%
CB-312
GR: 416.13
INV. OUT: 413.09
CB-210
GR: 412.80
INV. IN (15" E): 408.32
INV. OUT: 408.32
CB-209
GR: 412.50
INV. IN (18" S): 407.94
INV. OUT: 407.94
115 LF 30" RCP @ 0.40%
CB-207
GR: 412.35
INV. IN (36" S): 406.90
INV. IN (15" NE): 406.90
INV. OUT: 406.90
144 LF 36" RCP @ 0.40%
94 LF 18" RCP @ 0.40%
CB-208
GR: 412.40
INV. IN (30" S): 407.48
INV. OUT: 407.48
87 LF 15" RCP @ 0.40%
CB-211
GR: 416.63
INV. OUT: 408.67
CB-313
GR: 414.25
INV. IN (24" N): 410.52
INV. OUT: 410.50
CB-314
GR: 415.00
INV. IN (24" N): 411.02
INV. OUT: 411.02
113 LF 15" RCP @ 0.40%
CB-316
GR: 415.50
INV. OUT: 412.08
126 LF 24" RCP @ 0.40%
153 LF 24" RCP @ 0.40%
CB-315
GR: 414.70
INV. IN (15" N): 411.63
INV. OUT: 411.63
CB-206
GR: 415.00
INV. OUT: 407.36

SCALE: 1 INCH = 40 FEET

WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

Date	Description	No.
REVISIONS		

STATE OF NEW YORK · RICHARD BURROW · 082168 · LICENSED PROFESSIONAL ENGINEER

SIGNATURE — DATE SIGNED: OCT 02 2019

RICHARD BURROW
PROFESSIONAL ENGINEER NY Lic. No. 082168

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

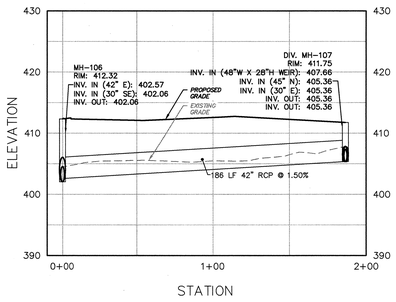
Project
PROPOSED DISTRIBUTION FACILITY PROJECT
SECTION 114. BLOCK 1, LOT 2.3
TOWN OF CLAY
ONONDAGA COUNTY NEW YORK

Drawing Title
GRADING & DRAINAGE PLAN (4 OF 4)

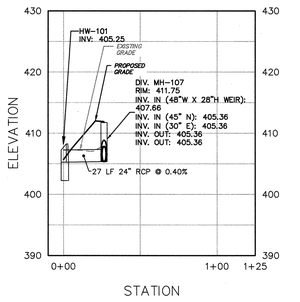
Project No.	Drawing No.
100796101	CG104
Date: 10/02/2019	
Drawn By: JRS	
Checked By: TLK	

PROJECT NO. 100796101

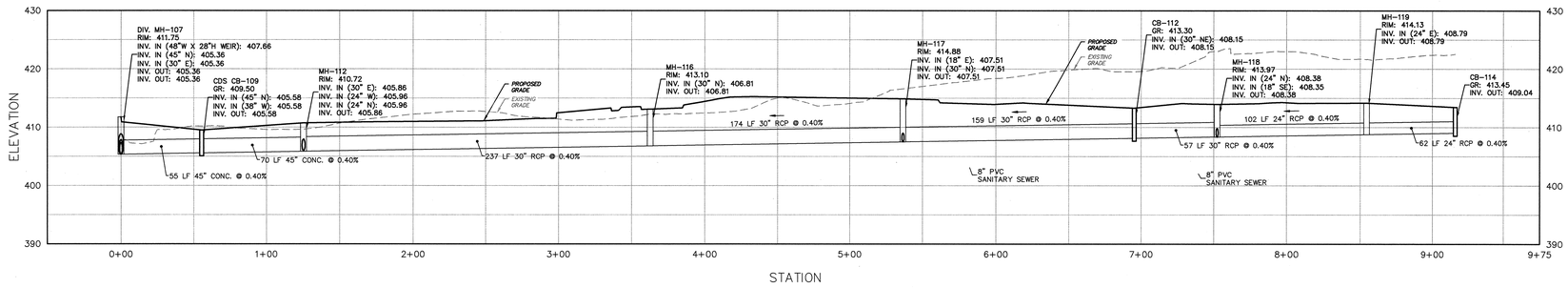
Filename: \\langan.com\data\PAR\data1\100796101\Project Data\CAD\01\Sheet Files\Site Plan Approval\100796101-CG101-0101.dwg Date: 10/2/2019 Time: 17:59 User: ahartingsmith Style Table: Langan.stb Layout: CG104



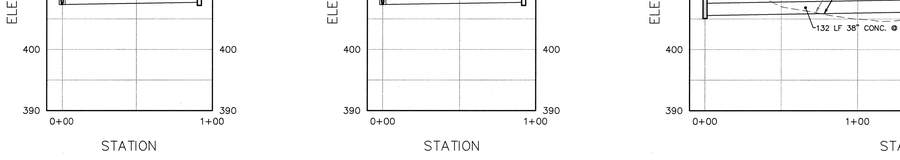
DIV. MH-107 TO MH-106 PROFILE



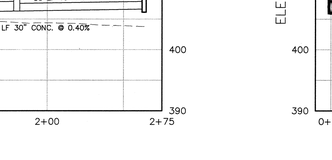
DIV. MH-107 TO HW-101 PROFILE



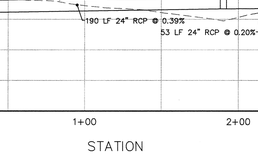
CB-114 TO DIV. MH-107 PROFILE



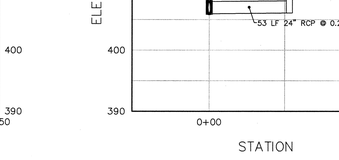
MH-121 TO DIV. MH-107 PROFILE



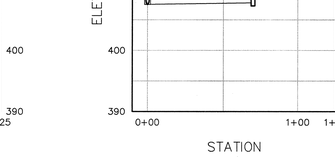
CB-102 TO MH-110 PROFILE



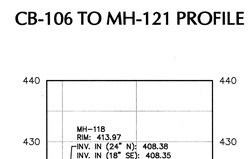
CB-103 TO MH-110 PROFILE



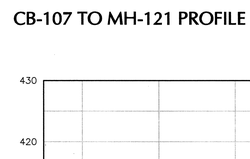
CB-104 TO MH-120 PROFILE



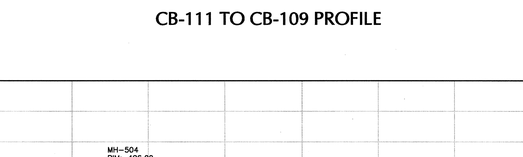
CB-105-MH-120 PROFILE



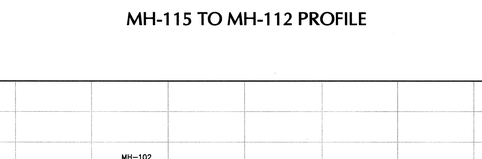
CB-106 TO MH-121 PROFILE



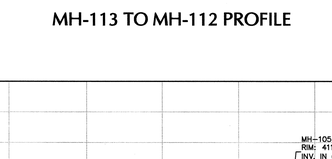
CB-107 TO MH-121 PROFILE



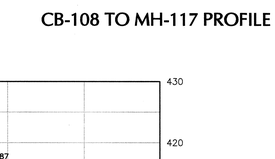
CB-111 TO CB-109 PROFILE



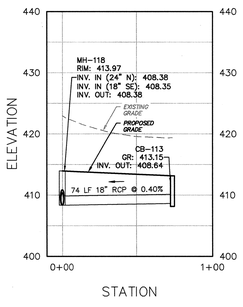
MH-115 TO MH-112 PROFILE



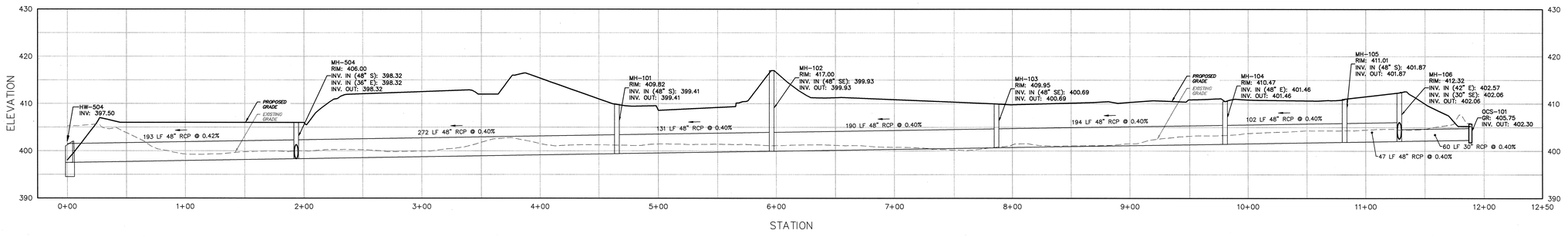
MH-113 TO MH-112 PROFILE



CB-108 TO MH-117 PROFILE



CB-113 TO MH-118 PROFILE



OCS-101 TO HW-504 PROFILE

WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

H: SCALE: 1 INCH = 40 FEET

V: SCALE: 1 INCH = 10 FEET

Date	Description	No.
REVISIONS		

STATE OF NEW YORK RICHARD BURROW LICENSED PROFESSIONAL ENGINEER 082168

SIGNATURE DATE SIGNED OCT 02 2019

RICHARD T. BURROW
PROFESSIONAL ENGINEER NY Lic. No. 082168

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
PROPOSED DISTRIBUTION FACILITY PROJECT
SECTION 114, BLOCK 1, LOT 2.3
TOWN OF CLAY
ONONDAGA COUNTY NEW YORK

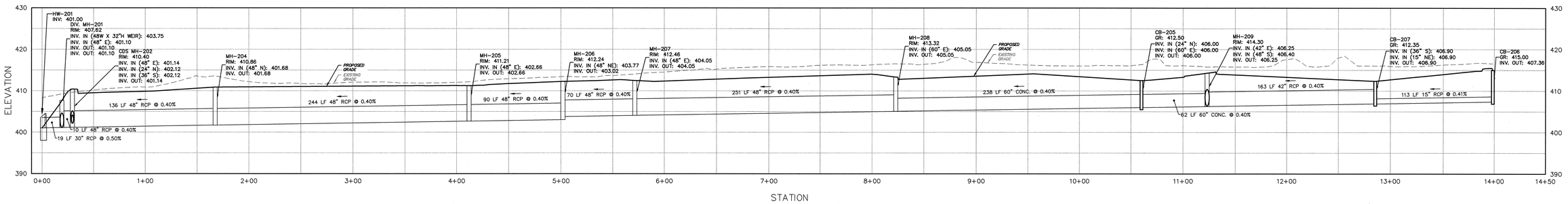
Drawing Title
STORM SEWER PROFILES

Project No.	Drawing No.
100796101	CG201
Date: 10/02/2019	
Drawn By: AHS	
Checked By: RG/TLK	

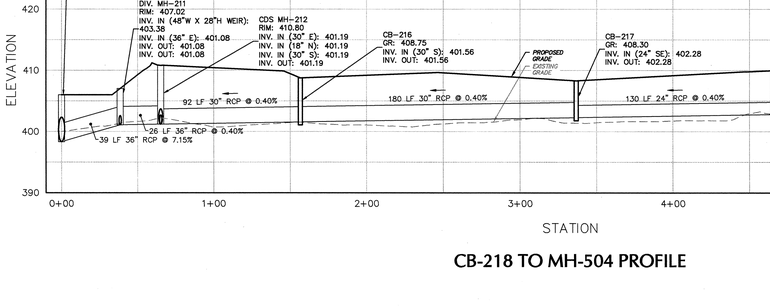
LANGAN
PROJECT NO. 100796101

© 2019 Langan

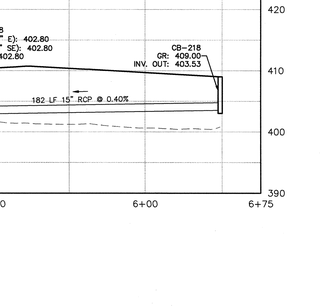
Filename: \\langan.com\data\PAR\data\100796101\Project Data\CAD\01\Sheet Files\Site Plan Approval\100796101-CG201-0101.dwg Date: 10/2/2019 Time: 17:59 User: ahartingsmith Style Table: Langan.stb Layout: CG201



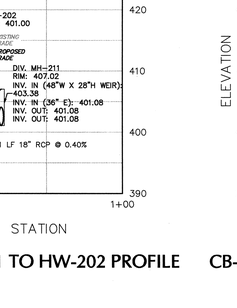
CB-206 TO HW-201 PROFILE



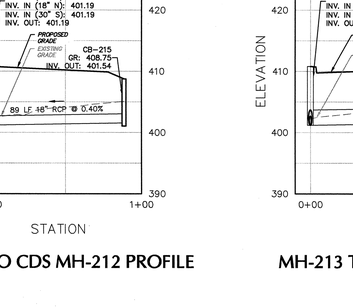
MH-203 TO CDS MH-202 PROFILE



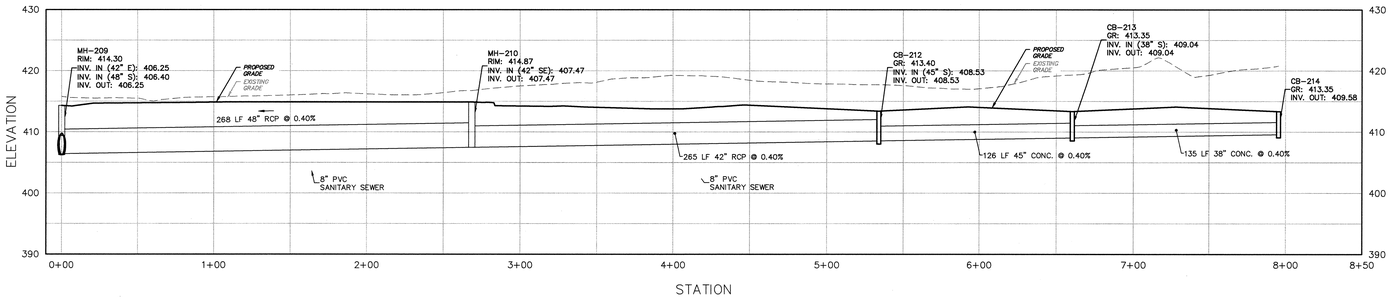
CB-203 TO CDS MH-202 PROFILE



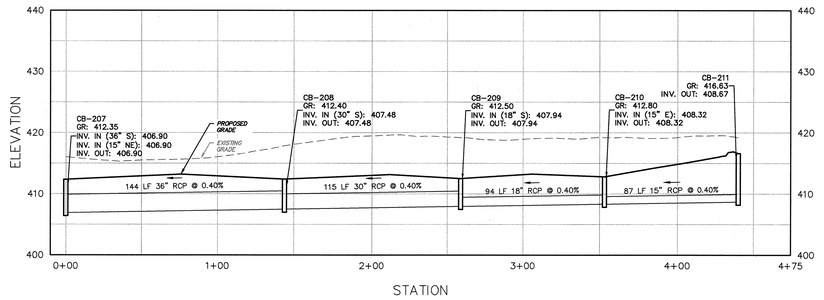
CB-204 TO CB-205 PROFILE



DIV. MH-201 TO MH-503 PROFILE



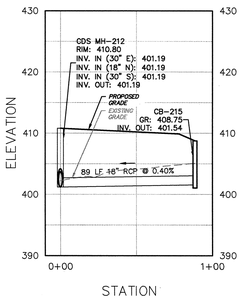
CB-214 TO MH-209 PROFILE



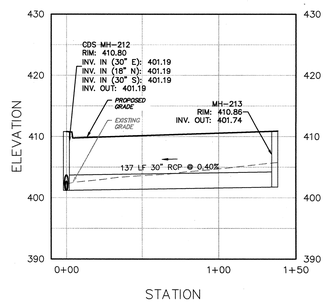
CB-211 TO CB-207 PROFILE

CB-218 TO MH-504 PROFILE

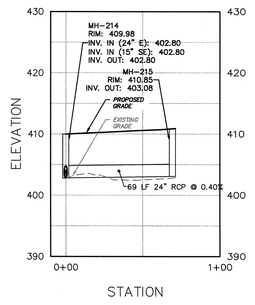
DIV. MH-211 TO HW-202 PROFILE



CB-215 TO CDS MH-212 PROFILE



MH-213 TO CDS MH-212 PROFILE



MH-215 TO MH-214 PROFILE

H: SCALE: 1 INCH = 40 FEET

V: SCALE: 1 INCH = 10 FEET

WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

Date	Description	No.
REVISIONS		

STATE OF NEW YORK · RICHARD BURROW · 082168 · LICENSED PROFESSIONAL ENGINEER

SIGNATURE — DATE SIGNED: OCT 02 2019

RICHARD BURROW
PROFESSIONAL ENGINEER NY Lic. No. 082168

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
PROPOSED DISTRIBUTION FACILITY PROJECT
SECTION 114, BLOCK 1, LOT 2.3
TOWN OF CLAY
ONONDAGA COUNTY NEW YORK

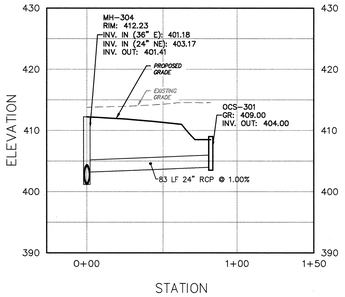
Drawing Title
STORM SEWER PROFILES

Project No.	Drawing No.
100796101	CG202
Date: 10/02/2019	
Drawn By: AHS	
Checked By: RG/TLK	

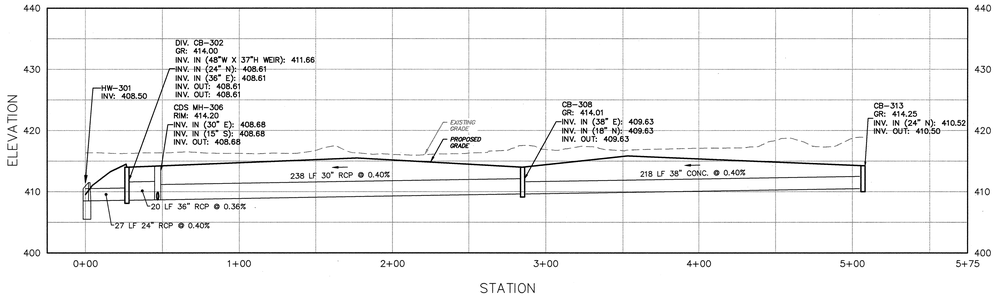
LANGAN
PROJECT NO. 100796101

© 2019 Langan

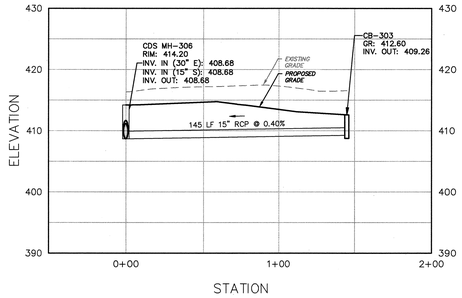
Filename: \\langan.com\data\PAR\data\t\100796101\Project Data\CAD\01SheetFiles\Site Plan Approval\100796101-CG201-2101.dwg Date: 10/2/2019 Time: 17:39 User: ahartingsmith Style Table: Langan.stb Layout: CG202



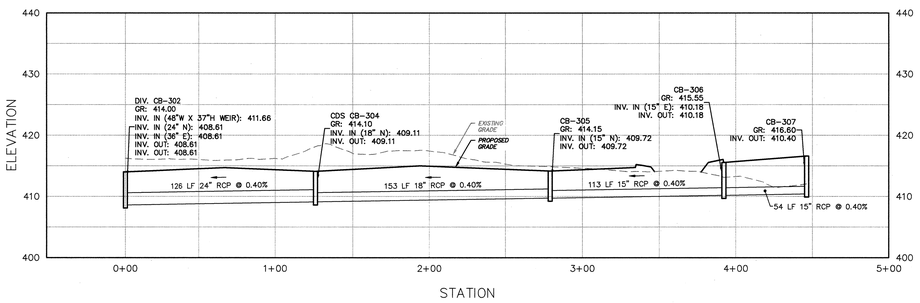
OCS-301 TO MH-304 PROFILE



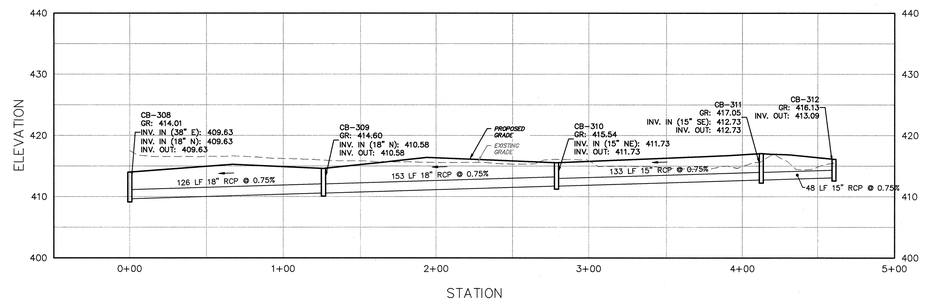
CB-313 TO HW-301 PROFILE



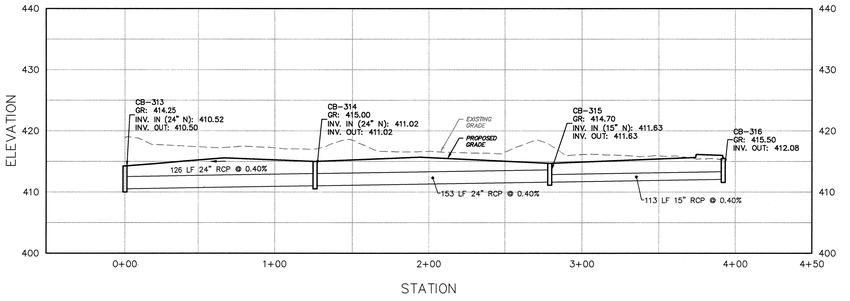
CB-303 TO CDS MH-306 PROFILE



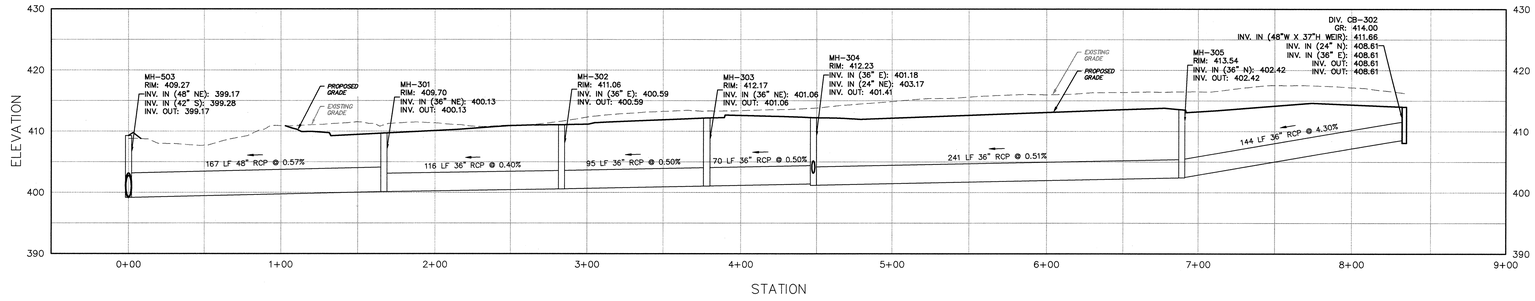
CB-307 TO DIV. CB-302 PROFILE



CB-312 TO CB-308 PROFILE



CB-316 TO CB-313 PROFILE



DIV. CB-302 TO MH-503 PROFILE

WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

H: SCALE: 1 INCH = 40 FEET (40 0 10 25 40)

V: SCALE: 1 INCH = 10 FEET (10 0 2 4 10)

Date	Description	No.
REVISIONS		

STATE OF NEW YORK RICHARD BURROW 082168 LICENSED PROFESSIONAL ENGINEER

OCT 02 2019

SIGNATURE DATE SIGNED

RICHARD BURROW
PROFESSIONAL ENGINEER NY Lic. No. 082168

LANGAN

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
PROPOSED DISTRIBUTION FACILITY PROJECT
SECTION 114, BLOCK 1, LOT 2.3
TOWN OF CLAY
ONONDAGA COUNTY NEW YORK

Drawing Title
STORM SEWER PROFILES

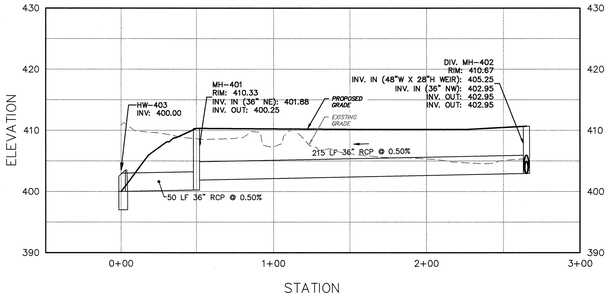
Project No. 100796101
Date 10/02/2019
Drawn By AHS
Checked By RG/TLK

Drawing No. CG203

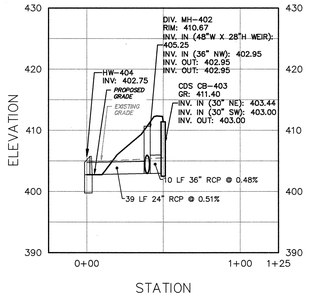
LANGAN
PROJECT NO. 100796101

©2019 Langan

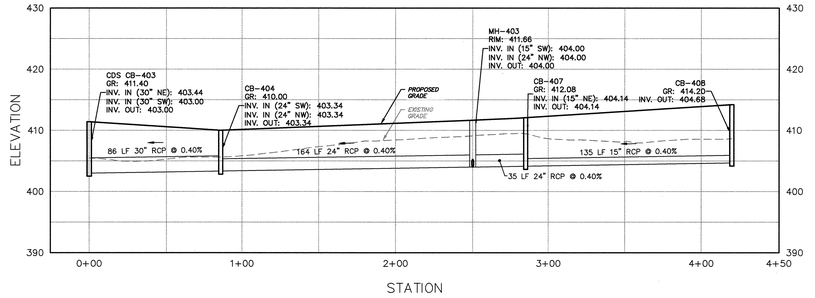
Filename: \\langan.com\data\PAR\data1\100796101\Project Data\CAD\01\SheetFiles\Site Plan Approval\100796101-CG201-0101.dwg Date: 10/2/2019 Time: 17:59 User: ahartingsmith Style Table: Langan.stb Layout: CG203



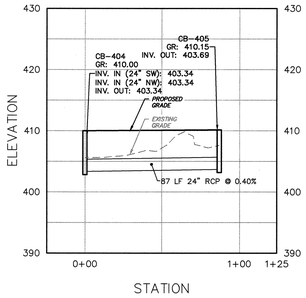
DIV. MH-402 TO HW-403 PROFILE



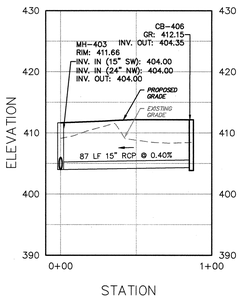
CDS CB-403 TO HW-404 PROFILE



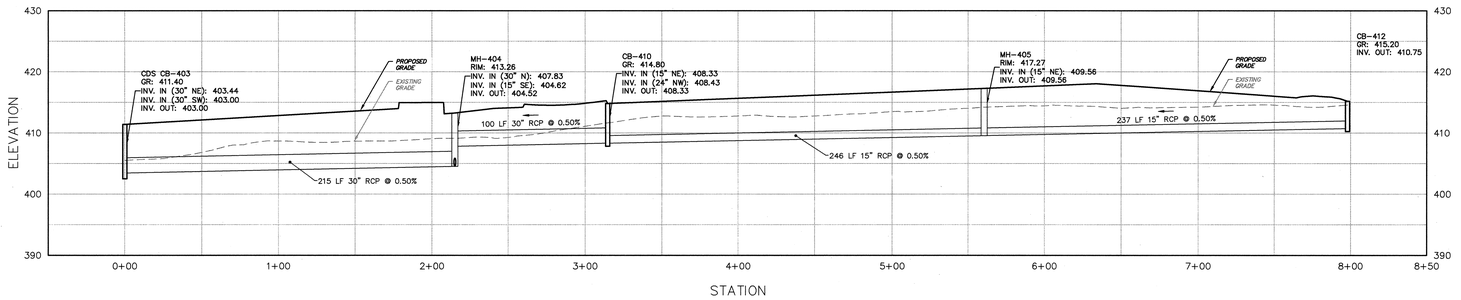
CB-408 TO CDS CB-403 PROFILE



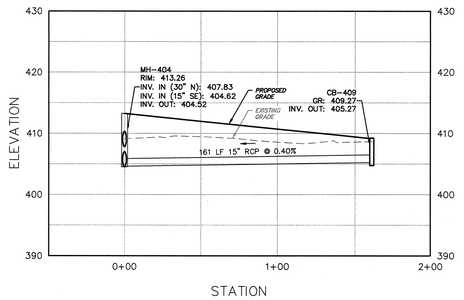
CB-405 TO CB-404 PROFILE



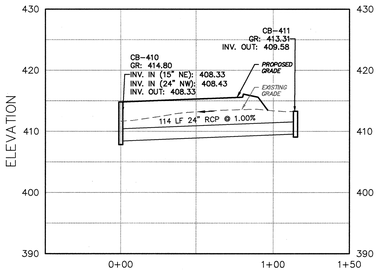
CB-406 TO MH-403 PROFILE



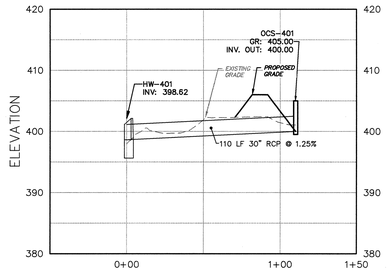
CB-412 TO CDS CB-403 PROFILE



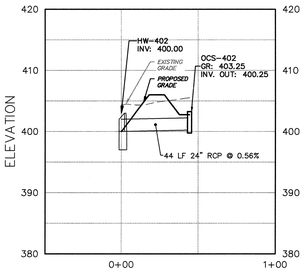
CB-409 TO MH-404 PROFILE



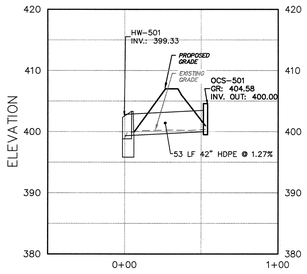
CB-411 TO CB-410 PROFILE



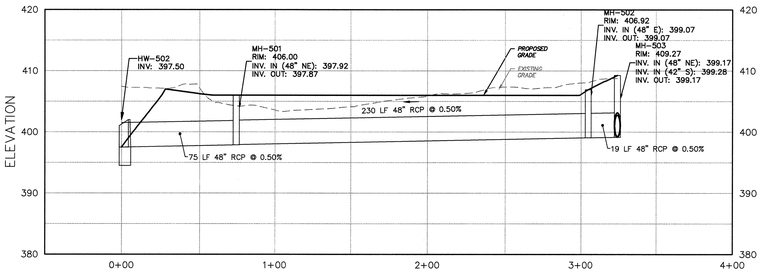
OCS-401 TO HW-401 PROFILE



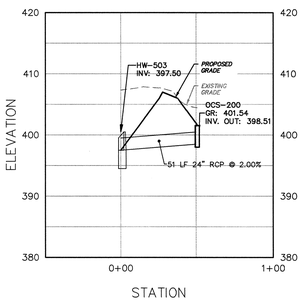
OCS-402 TO HW-402 PROFILE



OCS-501 TO HW-501 PROFILE



MH-503 TO HW-502 PROFILE



OCS-200 TO HW-503 PROFILE

H: SCALE: 1 INCH = 40 FEET

V: SCALE: 1 INCH = 10 FEET

WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

Date	Description	No.
REVISIONS		

STATE OF NEW YORK · RICHARD BURROW · 082168 · LICENSED PROFESSIONAL ENGINEER

SIGNATURE OCT 02 2019 DATE SIGNED

RICHARD BURROW

PROFESSIONAL ENGINEER NY Lic. No. 082168

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
PROPOSED DISTRIBUTION FACILITY PROJECT
SECTION 114, BLOCK 1, LOT 2.3
TOWN OF CLAY
ONONDAGA COUNTY NEW YORK

Drawing Title
STORM SEWER PROFILES

Project No.	Drawing No.
100796101	CG204
Date: 10/02/2019	
Drawn By: AHS	
Checked By: RG/TLK	

LANGAN
PROJECT NO. 100796101

© 2019 Langan

Filename: \\langan.com\data\PAR\data1\100796101\Project Data\CAD\01\Sheet Files\Site Plan Approval\100796101-CG201-0151.dwg Date: 10/2/2019 Time: 17:59 User: ahartingsmith Style Table: Langan.stb Layout: CG204

OSWEGO ROAD

POTENTIAL WATER SERVICE FROM OSWEGO ROAD

TOWN OF SALINA
TOWN OF CLAY

LIVERPOOL BYPASS

10-INCH C900 PVC FIRE LOOP

FIRE HYDRANT WITH BOLLARDS (TYP.)

DOMESTIC WATER SERVICE

WATER TANK

POTENTIAL WATER TANK

TRANSFORMER (TYP.)

NATURAL GAS SERVICE BUILDING CONNECTION

WATER SERVICE BUILDING CONNECTION

PROPOSED DISTRIBUTION FACILITY

BUILDING FOOTPRINT = 823,522 SF
62 LOADING DOCKS
208 TRAILER PARKING SPACES
1804 CAR PARKING SPACES
16 MOTORCYCLE PARKING SPACES

GAS SERVICE

SANITARY SEWER BUILDING CONNECTION (TYP.)

SANITARY SEWER SERVICE

TELECOMMUNICATION SERVICE

TANK FILL LINE

PUMP STATION

WATER SERVICE FROM MORGAN ROAD

MORGAN ROAD

CONNECT TO EXISTING GAS SERVICE

CONNECT TO EXISTING UTILITY POLE

CONNECT TO EXISTING SANITARY SEWER SERVICE

CONNECT TO EXISTING TELECOMMUNICATION SERVICE

CONNECT TO EXISTING WATERLINE

100 0 50 100
SCALE IN FEET

Date	Description	No.
REVISIONS		

STATE OF NEW YORK
RICHARD BURROW
082168
LICENSED PROFESSIONAL ENGINEER

SIGNATURE
OCT 02 2019
DATE SIGNED
RICHARD BURROW
PROFESSIONAL ENGINEER NY Lic. No. 082168

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
PROPOSED DISTRIBUTION FACILITY PROJECT
SECTION 114, BLOCK 1, LOT 2.3
TOWN OF CLAY
ONONDAGA COUNTY NEW YORK

Drawing Title
OVERALL UTILITY PLAN

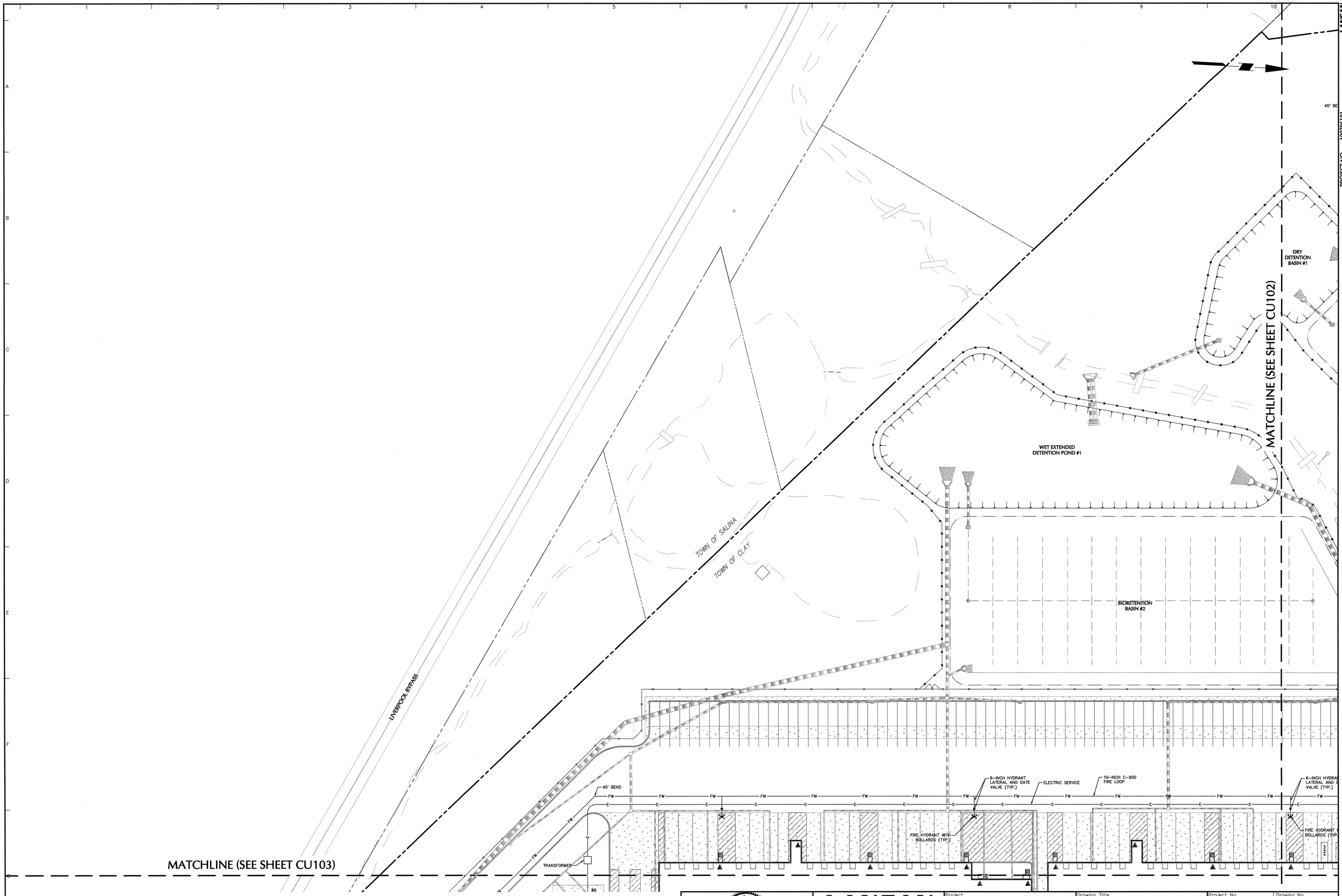
Project No. 100796101
Date 10/02/2019
Drawn By JRS
Checked By TLK

Drawing No. CU100

WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

Filename: \\langan.com\data\PAR\data1\100796101\Project Data\CAD\01\Sheet Files\Site Plan Approval\100796101-CU100-0101.dwg Date: 10/2/2019 Time: 18:00 User: ahartingsmith Style Table: Langan.stb Layout: CU100

PROJECT NO. 100796101
LANGAN



WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

SCALE: 1 INCH = 40 FEET

Date	Description	No.
REVISIONS		

STATE OF NEW YORK — RICHARD BURROW — 082168 — LICENSED PROFESSIONAL ENGINEER

SIGNATURE — DATE SIGNED: OCT 0 2 2019

RICHARD BURROW
PROFESSIONAL ENGINEER NY Lic. No. 082168

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
PROPOSED DISTRIBUTION FACILITY PROJECT
SECTION 114, BLOCK 1, LOT 2.3
TOWN OF CLAY
ONONDAGA COUNTY NEW YORK

Drawing Title
UTILITY PLAN (1 OF 4)

Project No.	Drawing No.
100796101	CU101
Date: 10/02/2019	
Drawn By: JRS	
Checked By: TLK	

PROJECT NO. 100796101

© 2019 Langan

Filename: \\langan.com\data\PAR\data1\100796101\Project Data\CAD\01Sheet Files\Site Plan Approval\100796101-CU101-0101.dwg Date: 10/2/2019 Time: 18:00 User: ahartingsmith Style Table: Langan.stb Layout: CU101

MATCHLINE REFER TO "ROAD INSET"

MATCHLINE (SEE SHEET CU101)

MATCHLINE (SEE SHEET CU104)

DRY DETENTION BASIN #1

BIORETENTION BASIN #4

45° BEND

10-INCH C900 PVC FIRE WATER SERVICE

1.5-INCH HDPE DR11 SANITARY FORCE MAIN

PUMP STATION #2

SAN. GUARDHOUSE CONNECTION #1
RIM: 417.75
INV. IN: 412.75
INV. OUT: 412.75

4-INCH PVC SDR35 SANITARY LATERAL

PROPOSED 4-INCH DOMESTIC WATER SERVICE INTO GUARDHOUSE

PROPOSED ELECTRIC SERVICE INTO GUARDHOUSE

6-INCH HYDRANT LATERAL AND GATE VALVE (TYP.)

10-INCH C-900 FIRE LOOP

FIRE HYDRANT WITH BOLLARDS (TYP.)

SANITARY FORCE MAIN TO BUILDING

4-INCH DOMESTIC WATER SERVICE INTO BUILDING

6-INCH HYDRANT LATERAL

6-INCH GATE VALVE (TYP.)

FIRE HYDRANT WITH BOLLARDS (TYP.)

ACCESS

ENTRANCE

EXIT

40 0 10 25 40
SCALE: 1 INCH = 40 FEET

ROAD INSET

1" = 80'

80 0 40 80
SCALE: 1 INCH = 80 FEET

OSWEGO ROAD

CONNECT TO EXISTING WATERLINE

POTENTIAL WATER SERVICE FROM OSWEGO ROAD

WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

Date	Description	No.
REVISIONS		

STATE OF NEW YORK RICHARD BURROW 082168 LICENSED PROFESSIONAL ENGINEER

SIGNATURE OCT 0 2 2019 DATE SIGNED

RICHARD BURROW
PROFESSIONAL ENGINEER NY Lic. No. 082168

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
PROPOSED DISTRIBUTION FACILITY PROJECT
SECTION 114, BLOCK 1, LOT 2.3
TOWN OF CLAY
ONONDAGA COUNTY NEW YORK

Drawing Title
UTILITY PLAN (2 OF 4)

Project No.	Drawing No.
100796101	CU102
Date: 10/02/2019	
Drawn By: JRS	
Checked By: TLK	

LANGAN PROJECT NO. 100796101

©2019 Langan

Filename: \\langan.com\data\PAR\data\t\100796101\Project Data\CAD\01Sheet Files\Site Plan Approval\100796101-CU101-0101.dwg Date: 10/2/2019 Time: 18:01 User: ahartingsmith Style Table: Langan.stb Layout: CU102

MATCHLINE (SEE SHEET CU101)

MATCHLINE (SEE SHEET CU104)

PROPOSED DISTRIBUTION FACILITY

BUILDING FOOTPRINT = 823,522 SF
62 LOADING DOCKS
208 TRAILER PARKING SPACES
1804 CAR PARKING SPACES
16 MOTORCYCLE PARKING SPACES

TRANSFORMER
ELECTRIC SERVICE BUILDING CONNECTION
NATURAL GAS SERVICE BUILDING CONNECTION
45° BEND
6-INCH HYDRANT LATERAL AND GATE VALVE. (TYP.)
FIRE HYDRANT WITH BOLLARDS (TYP.)
GAS SERVICE
10-INCH C-900 FIRE LOOP
LIVERPOOL BYPASS
BIORETENTION BASIN #1
SAN. BLDG. CONN. #1
RIM: 415.40
INV. OUT: 403.34
TRANSFORMER
ELECTRIC SERVICE BUILDING CONNECTION
120 LF 6" PVC @ 0.45%
SMH-02
RIM: 414.21
INV. IN: 401.90
INV. OUT: 401.82
SMH-03
RIM: 414.33
INV. IN: 401.00
INV. IN: 400.90
INV. OUT: 400.82
SAN. BLDG. CONN. #2
RIM: 415.40
INV. OUT: 405.00
30 LF 6" PVC @ 0.50%
SMH-04
RIM: 414.33
INV. IN: 401.60
INV. IN: 404.85
INV. OUT: 401.60
ELECTRIC SERVICE
181 LF 8" PVC @ 0.45%
177 LF 8" PVC @ 0.41%
207 LF 8" PVC @ 0.41%
182 LF 8" PVC @ 0.45%
10-INCH C-900 FIRE LOOP
45° BEND
GAS SERVICE
10-INCH C-900 FIRE LOOP
6-INCH HYDRANT LATERAL
6-INCH GATE VALVE (TYP.)
FIRE HYDRANT WITH BOLLARDS (TYP.)
SMH-01
RIM: 410.50
INV. IN: 402.80
INV. OUT: 402.72
181 LF 8" PVC @ 0.45%
PUMP STATION #1
RIM: 420.88
INV. IN: 400.00
INV. OUT: 410.00
100 LF 3" CIP FORCEMAIN @ -1.00%
CONNECT TO EXISTING UTILITY POLE (COORDINATE WITH NATIONAL GRID)
EX. SMH
RIM: 423.48
PR. INV. IN: 411.00
EX. INV. IN (8"): 409.18
EX. INV. OUT (12"): 408.98
MORGAN ROAD
12" CLAY
RIM=420.64
INV(1)=407.89
INV(2)=407.85
INV(3)=407.99
RIM=423.46
INV(1)=409.51
INV(2)=409.94
INV(3)=415.76
RIM=410.23
BOT=400.73
CONNECT TO EXISTING GAS SERVICE (COORDINATE WITH NATIONAL GRID)

WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

SCALE: 1 INCH = 40 FEET

Date	Description	No.
REVISIONS		

STATE OF NEW YORK RICHARD BURROW 082168 LICENSED PROFESSIONAL ENGINEER
OCT 02 2019
SIGNATURE DATE SIGNED
RICHARD BURROW
PROFESSIONAL ENGINEER NY Lic. No. 082168

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project	PROPOSED DISTRIBUTION FACILITY PROJECT SECTION 114, BLOCK 1, LOT 2.3 TOWN OF CLAY ONONDAGA COUNTY NEW YORK
Drawing Title	UTILITY PLAN (3 OF 4)
Project No.	100796101
Date	10/02/2019
Drawn By	JRS
Checked By	TLK
Drawing No.	CU103

PROJECT NO. 100796101

© 2019 Langan

Filename: \\langan.com\data\PAR\data1\100796101\Project Data\CAD\01Sheet Files\Site Plan Approval\100796101-CU101-0101.dwg Date: 10/2/2019 Time: 18:01 User: ahartingsmith Style Table: Langan.stb Layout: CU103

MATCHLINE (SEE SHEET CU102)

MATCHLINE (SEE SHEET CU103)

PROPOSED WATER TANK (CAPACITY TBD)

TRANSFORMER

ELECTRIC SERVICE BUILDING CONNECTION

45° BEND

BIORETENTION BASIN #3

10-INCH C-900 FIRE LOOP

6-INCH HYDRANT LATERAL AND GATE VALVE (TYP.)

FIRE HYDRANT WITH BOLLARDS (TYP.)

8-INCH C900 PVC TANK FILL LINE

TELECOMMUNICATION SERVICE BUILDING CONNECTION

ELECTRIC SERVICE BUILDING CONNECTION

TRANSFORMER

ELECTRIC SERVICE

SAN. BLDG. CONN. #3
RIM: 415.40
INV. OUT: 403.79

120 LF 8" PVC @ 0.41%

45° BEND

SMH-05
RIM: 413.63
INV. IN: 402.45
INV. OUT: 402.45

SMH-06
RIM: 413.25
INV. IN: 403.30
INV. OUT: 403.30

47 LF 8" PVC @ 0.41%

207 LF 8" PVC @ 0.41%

45° BEND

10-INCH C-900 FIRE LOOP

8-INCH C900 PVC TANK FILL LINE

PROPOSED HEATED ENCLOSURE FOR BACKFLOW PREVENTER AND WATER METER

45° BEND

RIM=420.64
INV(1)=407.89
INV(2)=407.89
INV(3)=407.99

12" CLAY

RIM=418.89
INV(1)=407.79
INV(2)=407.79

12" CLAY

RIM=418.75
INV(1)=406.25
INV(2)=406.25

12" CLAY

RIM=418.26
INV(1)=404.51
INV(2)=404.51
INV(3)=405.11

12" CLAY

CONNECT TO EXISTING TELECOMMUNICATION SERVICE (COORDINATE WITH VERIZON)

WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

40 0 10 25 40
SCALE: 1 INCH = 40 FEET

Date	Description	No.
REVISIONS		

STATE OF NEW YORK · RICHARD BURROW · 082168 · LICENSED PROFESSIONAL ENGINEER

SIGNATURE

OCT 02 2019
DATE SIGNED

RICHARD BURROW
PROFESSIONAL ENGINEER NY Lic. No. 082168

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
PROPOSED DISTRIBUTION FACILITY PROJECT
SECTION 114, BLOCK 1, LOT 2.3
TOWN OF CLAY
ONONDAGA COUNTY NEW YORK

Drawing Title
UTILITY PLAN (4 OF 4)

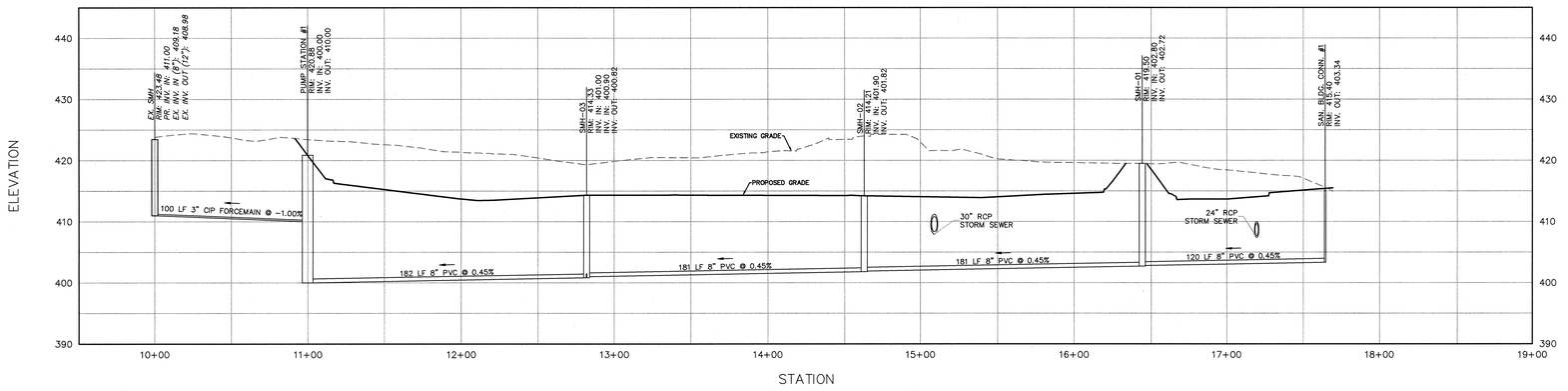
Project No.	100796101
Date	10/2/2019
Drawn By	JRS
Checked By	TLK

Drawing No. **CU104**

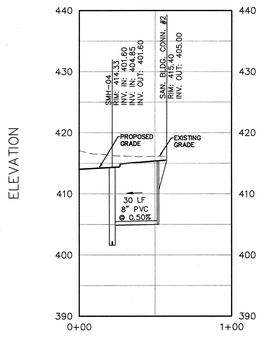
PROJECT NO. 100796101

© 2019 Langan

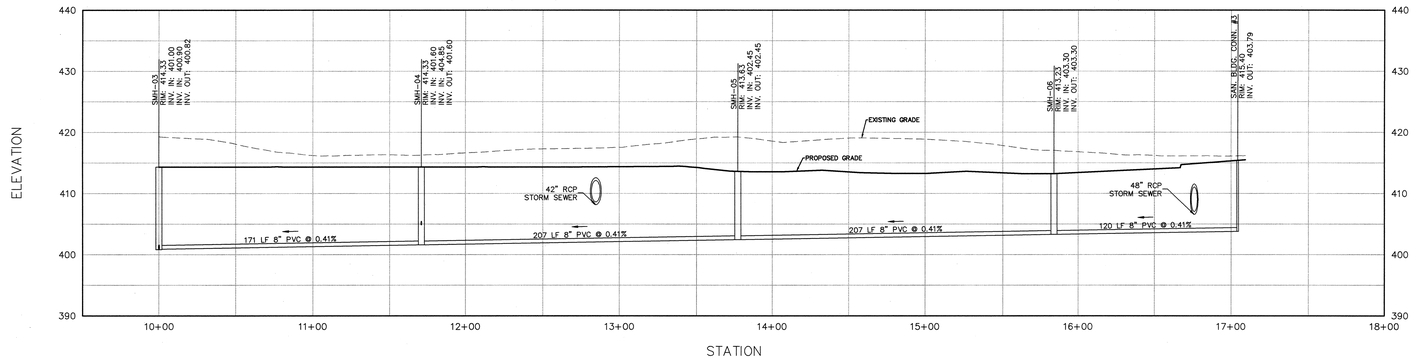
Filename: I:\langan.com\data\PAR\data1\100796101\Project Data\CAD\01\Sheet Files\Site Plan Approval\100796101-CU101-0101.dwg Date: 10/2/2019 Time: 18:01 User: ahartingsmith Style Table: Langan.stb Layout: CU104



SAN. BLDG. CONNECTION #1 TO EX. SMH PROFILE



SAN. BLDG. CONNECTION #2 TO SMH-03 PROFILE



SAN. BLDG. CONNECTION #3 TO SMH-03 PROFILE

H: SCALE: 1 INCH = 40 FEET

V: SCALE: 1 INCH = 10 FEET

WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

Date	Description	No.
REVISIONS		

STATE OF NEW YORK · RICHARD BURROW · 082168 · LICENSED PROFESSIONAL ENGINEER

SIGNATURE — DATE SIGNED: OCT 0 2 2019

RICHARD BURROW
PROFESSIONAL ENGINEER NY Lic. No. 082168

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
PROPOSED DISTRIBUTION FACILITY PROJECT
SECTION 114. BLOCK 1, LOT 2.3
TOWN OF CLAY
ONONDAGA COUNTY NEW YORK

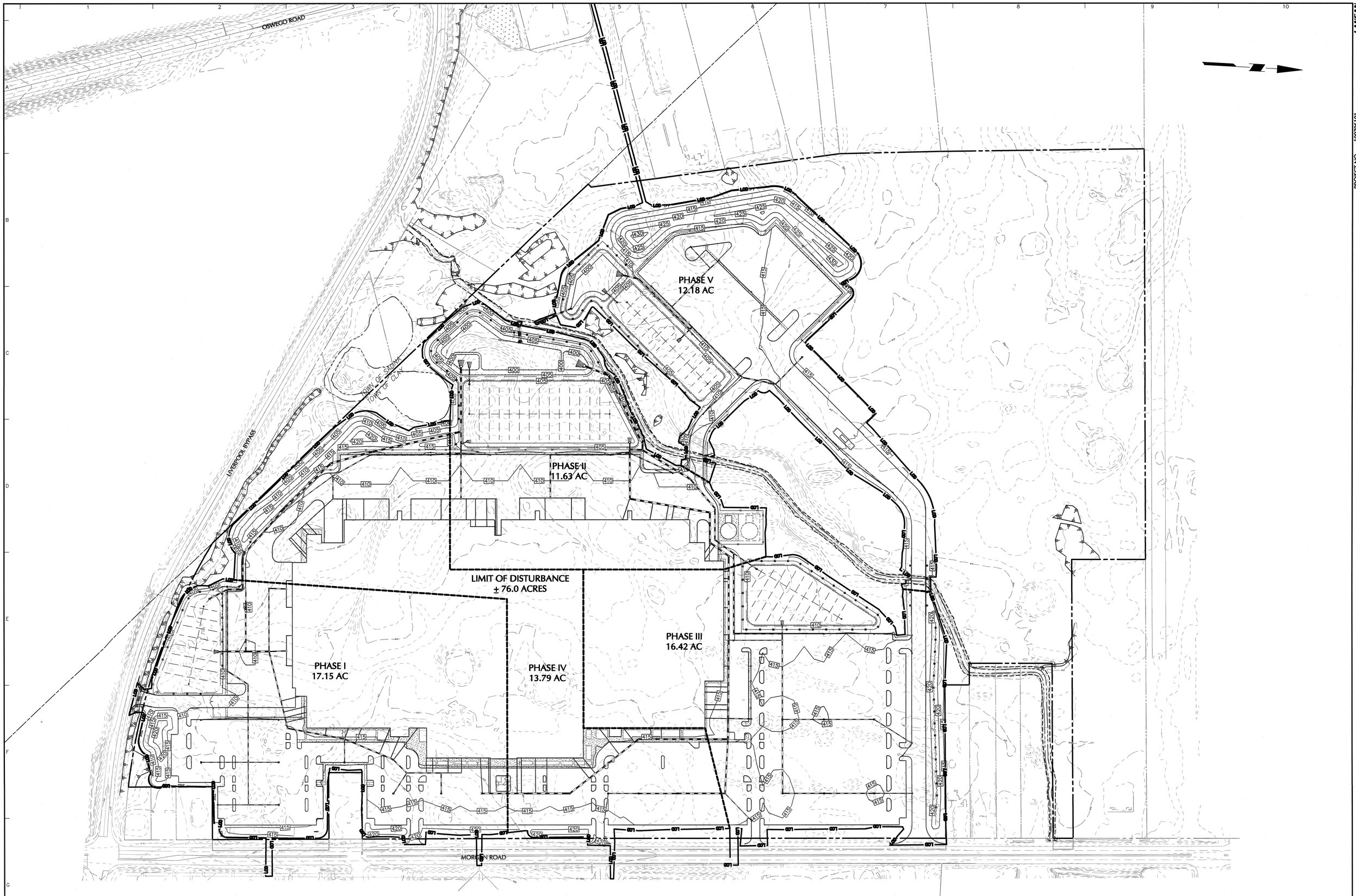
Drawing Title
SANITARY SEWER PROFILES

Project No.	Drawing No.
100796101	CU201
Date: 10/02/2019	
Drawn By: JRS	
Checked By: TLK	

LANGAN
PROJECT NO. 100796101

Filename: \\langan.com\data\PAR\data1\100796101\Project Data\CAD\01Sheet Files\Site Plan Approval\100796101-CU201-0101.dwg Date: 10/2/2019 Time: 18:02 User: ahartingsmith Style Table: Langan.ctb Layout: CU100

©2013 Langan



WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

100 0 50 100
SCALE: 1 IN = 100 FEET

Date	Description	No.
REVISIONS		

STATE OF NEW YORK · RICHARD BURROW · 082168 · LICENSED PROFESSIONAL ENGINEER

OCT 02 2019

SIGNATURE DATE SIGNED

RICHARD BURROW
PROFESSIONAL ENGINEER NY Lic. No. 082168

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
PROPOSED DISTRIBUTION FACILITY PROJECT
SECTION 114. BLOCK 1, LOT 2.3
TOWN OF CLAY
ONONDAGA COUNTY NEW YORK

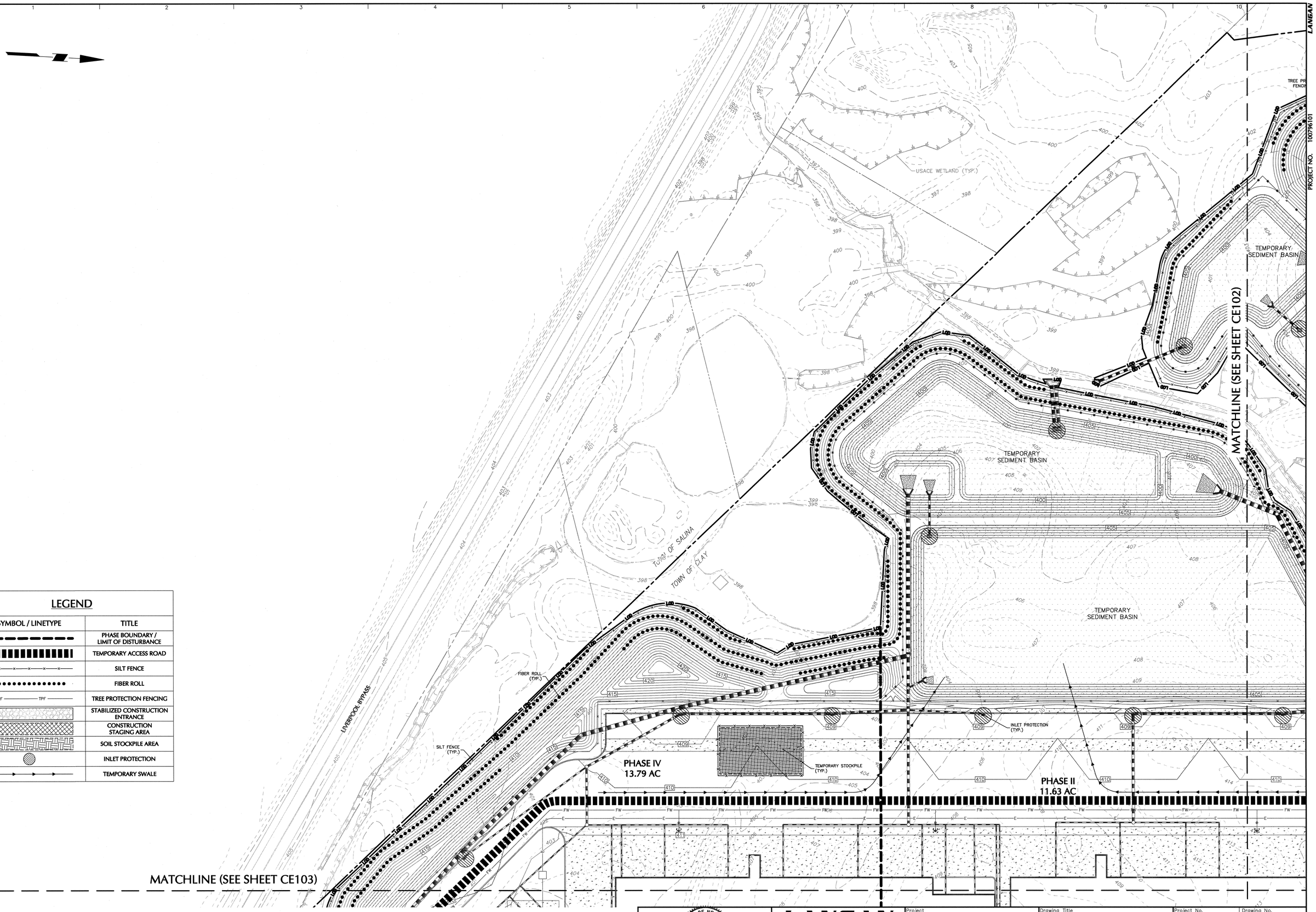
Drawing Title
OVERALL PHASING AND SOIL EROSION & SEDIMENT CONTROL PLAN

Project No.	Drawing No.
100796101	CE100
Date: 10/02/2019	
Drawn By: JRS	
Checked By: TLK	

PROJECT NO. 100796101

LANGAN

Filename: I:\langan.com\data\PAR\data1\100796101\Project Data\CADD\1\Sheet Files\Site Plan Approval\100796101-CE100-0101.dwg Date: 10/2/2019 Time: 18:02 User: ahartingsmith Style Table: Langan.stb Layout: CE100



LEGEND

SYMBOL / LINETYPE	TITLE
	PHASE BOUNDARY / LIMIT OF DISTURBANCE
	TEMPORARY ACCESS ROAD
	SILT FENCE
	FIBER ROLL
TPF TPF	TREE PROTECTION FENCING
	STABILIZED CONSTRUCTION ENTRANCE
	CONSTRUCTION STAGING AREA
	SOIL STOCKPILE AREA
	INLET PROTECTION
	TEMPORARY SWALE

WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

40 0 10 25 40
SCALE: 1 INCH = 40 FEET

Date	Description	No.
REVISIONS		

STATE OF NEW YORK RICHARD BURROW 082168 REGISTERED PROFESSIONAL ENGINEER

SIGNATURE OCT 0 2 2019 DATE SIGNED

RICHARD BURROW
PROFESSIONAL ENGINEER NY Lic. No. 082168

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
PROPOSED DISTRIBUTION FACILITY PROJECT
SECTION 114. BLOCK 1, LOT 2.3
TOWN OF CLAY
ONONDAGA COUNTY NEW YORK

Drawing Title
EROSION & SEDIMENT CONTROL PLAN (1 OF 4)

Project No.	Drawing No.
100796101	CE101
Date: 10/02/2019	
Drawn By: JRS	
Checked By: TLK	

© 2019 Langan

Filename: I:\langan.com\data\PAR\data\100796101\Project Data\CAD\01\Sheet Files\Site Plan Approval\100796101-CE101-0101.dwg Date: 10/2/2019 Time: 18:03 User: shartingsmith Style Table: Langan.stb Layout: CE101

MATCHLINE REFER TO "ROAD INSET"

MATCHLINE (SEE SHEET CE101)

MATCHLINE (SEE SHEET CE104)

SILT FENCE (TYP.)

FIBER ROLL (TYP.)

TREE PROTECTION FENCING (TYP.)

INLET PROTECTION (TYP.)

TEMPORARY STOCKPILE (TYP.)

TEMPORARY SEDIMENT BASIN

TEMPORARY SEDIMENT BASIN

PHASE V
12.18 AC

PHASE II
11.63 AC

INLET PROTECTION (TYP.)

USACE WETLAND (TYP.)

OSWEGO ROAD

ROAD INSET

1" = 80'

SCALE: 1 INCH = 80 FEET

LEGEND

SYMBOL / LINETYPE	TITLE
	PHASE BOUNDARY / LIMIT OF DISTURBANCE
	TEMPORARY ACCESS ROAD
	SILT FENCE
	FIBER ROLL
TPF TPF	TREE PROTECTION FENCING
	STABILIZED CONSTRUCTION ENTRANCE
	CONSTRUCTION STAGING AREA
	SOIL STOCKPILE AREA
	INLET PROTECTION
	TEMPORARY SWALE

SCALE: 1 INCH = 40 FEET

Date	Description	No.
REVISIONS		

STATE OF NEW YORK RICHARD BURROW 082168 LICENSED PROFESSIONAL ENGINEER

SIGNATURE OCT 02 2019 DATE SIGNED

RICHARD BURROW

PROFESSIONAL ENGINEER NY Lic. No. 082168

LANGAN

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.

300 Kimball Drive

Parsippany, NJ 07054

T: 973.560.4900 F: 973.560.4901 www.langan.com

NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project

PROPOSED DISTRIBUTION FACILITY PROJECT

SECTION 114. BLOCK 1, LOT 2.3

TOWN OF CLAY

ONONDAGA COUNTY NEW YORK

Drawing Title

EROSION & SEDIMENT CONTROL PLAN (2 OF 4)

Project No.	Drawing No.
100796101	CE102
Date: 10/02/2019	
Drawn By: JRS	
Checked By: TLK	

PROJECT NO. 100796101

LANGAN

WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

© 2019 Langan

Filename: \\langan.com\data\PAR\data1\100796101\Project Data\CAD\1\Sheet Files\Site Plan Approval\100796101-CE101-2101.dwg Date: 10/2/2019 Time: 18:03 User: ahartingsmith Style Table: Langan.stb Layout: CE102

MATCHLINE (SEE SHEET CE101)

PHASE II
11.63 AC

PHASE IV
13.79 AC

MATCHLINE (SEE SHEET CE104)

PHASE I
17.15 AC

PHASE IV
13.79 AC

LIVERPOOL BYPASS

TEMPORARY SEDIMENT BASIN

INLET PROTECTION (TYP.)

SILT FENCE (TYP.)

TREE PROTECTION FENCING (TYP.)

FIBER ROLL (TYP.)

TEMPORARY STOCKPILE (TYP.)

INLET PROTECTION (TYP.)

INLET PROTECTION (TYP.)

CONSTRUCTION ENTRANCE (TYP.)

MORGAN ROAD

LEGEND

SYMBOL / LINETYPE	TITLE
	PHASE BOUNDARY / LIMIT OF DISTURBANCE
	TEMPORARY ACCESS ROAD
	SILT FENCE
	FIBER ROLL
TPF TPF	TREE PROTECTION FENCING
	STABILIZED CONSTRUCTION ENTRANCE
	CONSTRUCTION STAGING AREA
	SOIL STOCKPILE AREA
	INLET PROTECTION
	TEMPORARY SWALE

WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

SCALE: 1 INCH = 40 FEET

Date	Description	No.
REVISIONS		

STATE OF NEW YORK · RICHARD BURROW · 082168 · LICENSED PROFESSIONAL ENGINEER

SIGNATURE OCT 02 2019 DATE SIGNED

RICHARD BURROW
PROFESSIONAL ENGINEER NY Lic. No. 082168

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
PROPOSED DISTRIBUTION FACILITY PROJECT
SECTION 114. BLOCK 1, LOT 2.3
TOWN OF CLAY
ONONDAGA COUNTY NEW YORK

Drawing Title
EROSION & SEDIMENT CONTROL PLAN (3 OF 4)

Project No.	Drawing No.
100796101	CE103
Date: 10/02/2019	
Drawn By: JRS	
Checked By: TLK	

PROJECT NO. 100796101

©2019 Langan

Filename: \\langan.com\data\PAR\data1\100796101\Project Data\CAD\01\SheetFiles\Site Plan Approval\100796101-CE101-0101.dwg Date: 10/2/2019 Time: 18:03 User: ahartingsmith Style Table: Langan.stb Layout: CE103

MATCHLINE (SEE SHEET CE102)

MATCHLINE (SEE SHEET CE103)

PHASE II
11.63 AC

PHASE III
16.42 AC

PHASE IV
13.79 AC

TEMPORARY
SEDIMENT BASIN

INLET PROTECTION
(TYP.)

TEMPORARY STOCKPILE
(TYP.)

CONSTRUCTION STAGING
AREA (TYP.)

FIBER ROLL
(TYP.)

SILT FENCE
(TYP.)

CONSTRUCTION
ENTRANCE (TYP.)

LEGEND

SYMBOL / LINETYPE	TITLE
	PHASE BOUNDARY / LIMIT OF DISTURBANCE
	TEMPORARY ACCESS ROAD
	SILT FENCE
	FIBER ROLL
TPF — TPF	TREE PROTECTION FENCING
	STABILIZED CONSTRUCTION ENTRANCE
	CONSTRUCTION STAGING AREA
	SOIL STOCKPILE AREA
	INLET PROTECTION
	TEMPORARY SWALE

WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

SCALE: 1 INCH = 40 FEET

Date	Description	No.
REVISIONS		

STATE OF NEW YORK
RICHARD BURROW
082168
LICENSED PROFESSIONAL ENGINEER

SIGNATURE — DATE SIGNED: OCT 02 2019

RICHARD BURROW
PROFESSIONAL ENGINEER NY Lic. No. 082168

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
PROPOSED DISTRIBUTION FACILITY PROJECT
SECTION 114, BLOCK 1, LOT 2.3
TOWN OF CLAY
ONONDAGA COUNTY NEW YORK

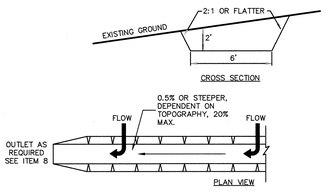
Drawing Title
EROSION & SEDIMENT CONTROL PLAN (4 OF 4)

Project No.	Drawing No.
100796101	CE104
Date: 10/02/2019	
Drawn By: JRS	
Checked By: TLK	

LANGAN PROJECT NO. 100796101

© 2019 Langan

Filename: \\langan.com\data\SP\PAR\data1\100796101\Project Data\CAD\01Sheet Files\Site Plan Approval\100796101-CE101-0101.dwg Date: 10/2/2019 Time: 18:03 User: ahartingsmith Style Table: Langan.stb Layout: CE104



CONSTRUCTION SPECIFICATIONS

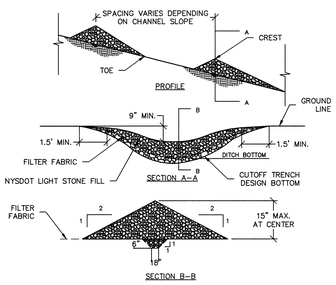
1. ALL TEMPORARY SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
4. ALL 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 SWALE.
5. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
6. FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
7. ALL EARTH REMOVED AND NOT NEEDED ON CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE.
8. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.
9. STABILIZATION SHALL BE AS PER THE CHART BELOW:

FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	A (5 AC. OR LESS)	B (5–10 AC.)
1	0.5–3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1–5.0%	SEED AND STRAW MULCH	SEED USING JUTE OR EXCELSIOR
3	5.1–8.0%	SEED WITH JUTE OR EXCELSIOR; SOD	LINED RIP-RAP 4–8" RECYCLED CONCRETE EQUIVALENT
4	8.1–20%	LINED 4–8" RIP–RAP	ENGINEERED DESIGN

TEMPORARY DIVERSION SWALE

SCALE: NTS

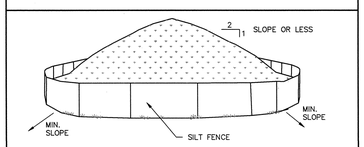


CONSTRUCTION SPECIFICATIONS:

1. STONE SHALL BE 2 TO 9 INCHES IN SIZE (NYSDOT LIGHT STONE FILL MEETS THESE REQUIREMENTS). STONE SHALL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN ON THE PLAN.
2. SET SPACING OF CHECK DAMS AS INDICATED ON PLANS.
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 LINER AS APPROPRIATE.
5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAM ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.

STONE CHECK DAM

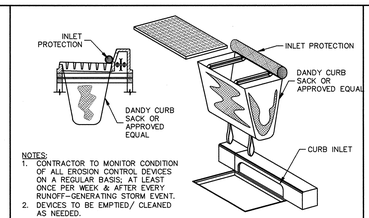
SCALE: NTS



NOTES:
1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1V:2H.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH SILT FENCING, THEN STABILIZED WITH VEGETATION OR COVERED.
4. SEE SPECIFICATIONS FOR INSTALLATION OF SILT FENCE.
5. HAY BALES TO BE USED WHERE STOCKPILES ARE LOCATED ON PAVED AREAS.

TEMPORARY STOCKPILE

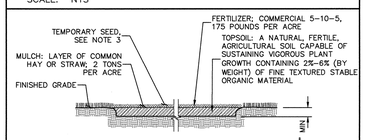
SCALE: NTS



NOTES:
1. CONTRACTOR TO MONITOR CONDITION OF ALL EROSION CONTROL DEVICES ON A REGULAR BASIS; AT LEAST ONCE PER WEEK & AFTER EVERY RUNOFF–GENERATING STORM EVENT.
2. DEVICES TO BE EMPTIED/ CLEANED AS NEEDED.

INLET PROTECTION - DANDY SACK

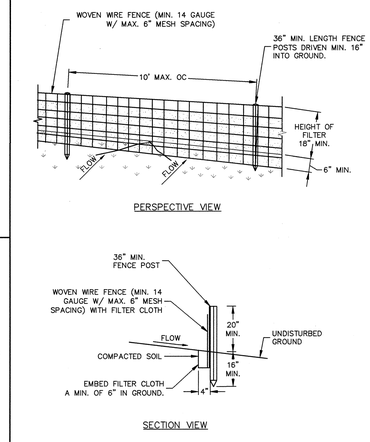
SCALE: NTS



NOTES:
1. TO BE USED ON DISTURBED SOIL AREAS THAT WILL BE LEFT EXPOSED FOR 7 DAYS OR MORE AND WILL BE RE–DISTURBED DURING CONSTRUCTION.
2. FERTILIZER OR LIME ARE NOT TYPICALLY USED FOR TEMPORARY SEEDINGS.
3. SEED MIX:
   A. IF SPRING, SUMMER OR EARLY FALL: SEED WITH ANNUAL OR PERENNIAL RYEGRASS AT A RATE OF 1 LB PER 1000 SF.
   B. IF LATE FALL OR WINTER: SEED WITH CERTIFIED 'AROOSTOOK' WINTER (CEREAL RYE) AT A RATE OF 2.5 LBS PER 1000 SF.

TEMPORARY VEGETATIVE COVER

SCALE: NTS



CONSTRUCTION SPECIFICATIONS:

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL, EITHER "T" OR "U" TYPE, OR HARDWOOD.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 14 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.
4. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
5. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT THAT MEETS THE MINIMUM REQUIREMENTS SHOWN.
6. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

DETAIL NOTES

1. INSTALLATION SHALL BE DONE IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL ("THE BLUE BOOK").
2. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE DISTURBED AREA AS POSSIBLE, BUT AT LEAST 10 FEET FROM THE TOE OF A SLOPE STEEPER THAN 3H:1V, TO ALLOW FOR MAINTENANCE AND ROLL DOWN. THE AREA BEYOND THE FENCE MUST BE UNDISTURBED OR STABILIZED.
3. THE TYPE OF SILT FENCE SPECIFIED FOR EACH LOCATION ON THE PLAN SHALL NOT EXCEED THE MAXIMUM SLOPE LENGTH AND MAXIMUM FENCE LENGTH REQUIREMENTS SHOWN IN THE TABLE BELOW. IF A TYPE SILT FENCE IS NOT SPECIFIED ON THE PLANS, THE CRITERIA FOR STANDARD SILT FENCE CAN BE APPLIED.
4. SILT FENCE SHALL BE REMOVED AS SOON AS THE DISTURBED AREA HAS ACHIEVED FINAL STABILIZATION.

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

SILT FENCE

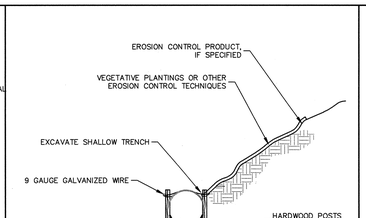
SCALE: NTS

TREE PROTECTION NOTES:

1. ALL EXISTING TREES WITHIN THE LIMITS OF TREE PROTECTION FENCING SHALL BE PROTECTED THROUGHOUT THE DURATION OF WORK. THE LIMIT OF TREE PROTECTION FENCE RADIUS SHALL BE 18 TIMES THE MEASURED DIAMETER–AT–BREAST–HEIGHT (DBH), UNLESS CONDITIONS WARRANT THE FENCE TO BE LOCATED CLOSER TO THE TREE. THE PROJECT LANDSCAPE ARCHITECT TO APPROVE THE LOCATION OF ALL FENCING PRIOR TO EXCAVATION.
2. TREE PROTECTION PLANKING SHALL BE INSTALLED ON ALL EXISTING TREES ONLY WHEN WORK IS TO BE DONE WITHIN THE LIMIT OF TREE PROTECTION FENCING. REFER TO DETAIL ON THIS SHEET.
3. IF TREE PROTECTION FENCING NEEDS TO BE MOVED OR BREACHED DUE TO TEMPORARY CONSTRUCTION ACTIVITY WITHIN THE TREE PROTECTION ZONE, THE FENCING WILL BE RESET TO ITS ORIGINAL LOCATION IMMEDIATELY AFTER CONSTRUCTION WITHIN THE TREE PROTECTION ZONE IS COMPLETE.
4. TREE PROTECTION FENCING SHALL BE MAINTAINED TO PROTECT TREES AT ALL TIMES. ANY DAMAGED FENCING SHALL BE IMMEDIATELY REPLACED WHEN DAMAGED.
5. DEMOLITION WORK WITHIN THE TREE PROTECTION FENCE OF PROTECTED TREES SHALL BE PERFORMED BY NON–MECHANICAL METHODS. CONTRACTOR TO PROTECT ROOT MASS AGAINST DAMAGE DURING EXCAVATION. ANY TREE ROOTS THAT ARE DISTURBED, BROKEN, OR CUT SHALL BE PRUNED BACK WITH CLEAN SHARP TOOLS.
6. ALL TEMPORARILY EXPOSED TREE ROOTS SHALL BE COVERED WITH 2 INCHES OF SHREDDED HARDWOOD MULCH AND THOROUGHLY IRRIGATED ON A DAILY BASIS AS DIRECTED BY THE PROJECT LANDSCAPE ARCHITECT.
7. ALL WORK TO BE PERFORMED UNDER THE DIRECT SUPERVISION OF EITHER THE OWNER'S REPRESENTATIVE OR THE PROJECT LANDSCAPE ARCHITECT.

TREE PROTECTION FENCING AND TREE PLANKING

SCALE: NTS

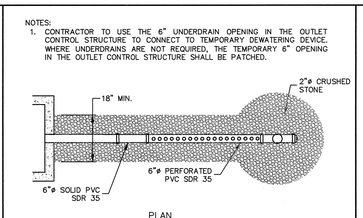


CONSTRUCTION SPECIFICATIONS:

1. EXCAVATE A SHALLOW TRENCH SLIGHTLY BELOW BASEFLOW OR A 4" TRENCH ON SLOPE CONTOURS.
2. PLACE THE ROLL IN THE TRENCH AND ANCHOR WITH 2" X 2" POSTS PLACED ON BOTH SIDES OF THE ROLL AND SPACED LATERALLY ON 2' TO 4' CENTERS. TRIM THE TOP OF THE POSTS EVEN WITH THE EDGE OF THE ROLL, IN NECESSARY.
3. NOTCH THE POSTS AND TIE TOGETHER, ACROSS THE ROLL, WITH 9 GAUGE GALVANIZED WIRE OR 2" DIAMETER BRAIDED NYLON ROPE.
4. PLACE SOIL EXCAVATED FROM THE TRENCH BEHIND THE ROLL AND HAND TAMP. PLANT WITH SUITABLE HERBACEOUS OR WOODY VEGETATION AS SPECIFIED ELSEWHERE IN THE CONTRACT DOCUMENTS. VEGETATION SHALL BE PLACED IMMEDIATELY ADJACENT TO THE ROLL TO PROMOTE ROOT GROWTH INTO THE FIBER. HERBACEOUS VEGETATION, IF SPECIFIED, SHALL BE PLANTED INTO THE FIBER ROLL.

FIBER ROLL

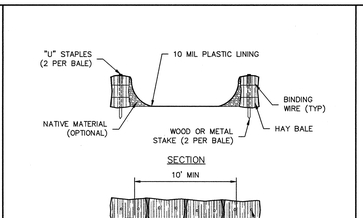
SCALE: NTS



NOTES:
1. CONTRACTOR TO USE THE 6" UNDERDRAIN OPENING IN THE OUTLET CONTROL STRUCTURE TO CONNECT TO TEMPORARY DEWATERING DEVICE. WHERE UNDERDRAINS ARE NOT REQUIRED, THE TEMPORARY 6" OPENING IN THE OUTLET CONTROL STRUCTURE SHALL BE PATCHED.

TEMPORARY SEDIMENT BASIN DEWATERING DEVICE

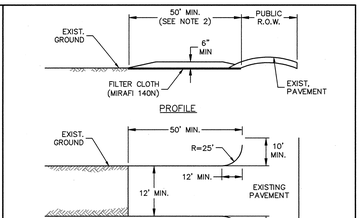
SCALE: NTS



NOTES:
1. CONCRETE WASHOUT SIGN TO BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
2. REMOVE HARDEN CONCRETE WHEN WITHIN 4" FROM TOP OF STRUCTURE.
3. CONSTRUCT NEW FACILITIES ONCE CURRENT FACILITIES ARE TWO–THIRDS FULL.
4. LINERS, HAY BALES, ET.C SHALL BE INSPECTED FOR DAMAGE. ANY DAMAGE SHALL BE REPAIR PROMPTLY.

ABOVE GROUND TEMPORARY CONCRETE WASHOUT FACILITY

SCALE: NTS



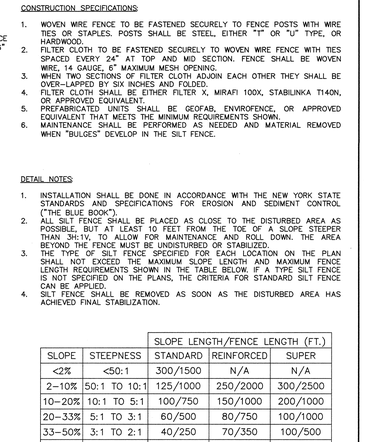
NOTE:
PROVIDE APPROPRIATE TRANSITION BETWEEN STABILIZED CONSTRUCTION ENTRANCE AND PUBLIC R.O.W.

CONSTRUCTION SPECIFICATIONS

1. STONE SIZE – USE 3" STONE (NYSDOT ITEM #623.11 SIZE DESIGNATION #2, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – NOT LESS THAN 50–FEET (EXCEPT ON SINGLE FAMILY LOT, 30–FEET MINIMUM LENGTH WOULD APPLY.)
3. THICKNESS – NOT LESS THAN SIX (6) INCHES.
4. WIDTH – TWELVE (12) FOOT MINIMUM. BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY–FOUR (24) FOOT IF SINGLE ENTRANCE TO SIGHT.
5. FILTER CLOTH – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED
7. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS–OF–WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR 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 TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTR. ENTRANCE

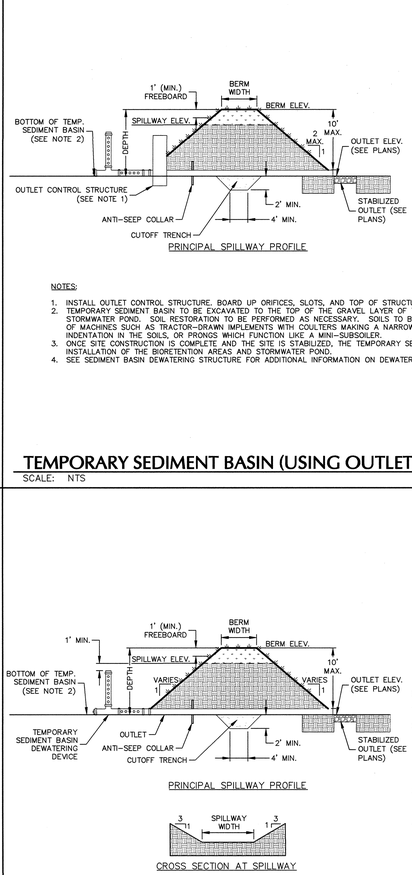
SCALE: NTS



NOTES:
1. INSTALL OUTLET CONTROL STRUCTURE. BOARD UP ORIFICES, SLOTS, AND TOP OF STRUCTURE
2. TEMPORARY SEDIMENT BASIN TO BE EXCAVATED TO THE TOP OF THE GRAVEL LAYER OF THE BIORETENTION AREA AND AQUATIC BENCH OF THE STORMWATER POND. SOIL RESTORATION TO BE PERFORMED AS NECESSARY. SOILS TO BE RESTORED SHALL BE AERATED. AERATION INCLUDES THE USE OF MACHINES SUCH AS TRACTOR–DRAWN IMPLEMENTS WITH COULTERS MAKING A NARROW SLIT IN THE SOILS, A ROLLER WITH MANY SPIKES MAKING INDENTATION IN THE SOILS, OR PRONGS WHICH FUNCTION LIKE A MINI–SUBSOILER.
3. ONCE SITE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED, THE TEMPORARY SEDIMENT BASIN SHALL BE CLEANED AND EXCAVATED FOR THE INSTALLATION OF THE BIORETENTION AREAS AND STORMWATER POND.
4. SEE SEDIMENT BASIN DEWATERING STRUCTURE FOR ADDITIONAL INFORMATION ON DEWATERING THE TEMPORARY SEDIMENT BASIN.

TEMPORARY SEDIMENT BASIN (USING OUTLET CONTROL STRUCTURES)

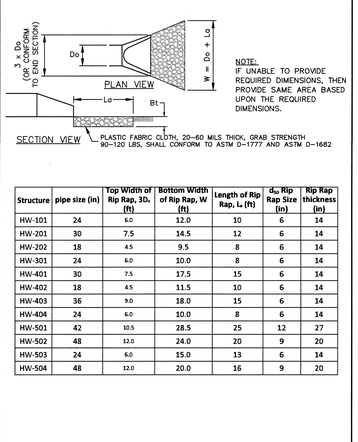
SCALE: NTS



NOTES:
1. INSTALL OUTLET CONTROL STRUCTURE. BOARD UP ORIFICES, SLOTS, AND TOP OF STRUCTURE
2. TEMPORARY SEDIMENT BASIN TO BE EXCAVATED TO THE TOP OF THE GRAVEL LAYER OF THE BIORETENTION AREA AND AQUATIC BENCH OF THE STORMWATER POND. SOIL RESTORATION TO BE PERFORMED AS NECESSARY. SOILS TO BE RESTORED SHALL BE AERATED. AERATION INCLUDES THE USE OF MACHINES SUCH AS TRACTOR–DRAWN IMPLEMENTS WITH COULTERS MAKING A NARROW SLIT IN THE SOILS, A ROLLER WITH MANY SPIKES MAKING INDENTATION IN THE SOILS, OR PRONGS WHICH FUNCTION LIKE A MINI–SUBSOILER.
3. ONCE SITE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED, THE TEMPORARY SEDIMENT BASIN SHALL BE CLEANED AND EXCAVATED FOR THE INSTALLATION OF THE BIORETENTION AREAS AND STORMWATER POND.
4. SEE SEDIMENT BASIN DEWATERING STRUCTURE FOR ADDITIONAL INFORMATION ON DEWATERING THE TEMPORARY SEDIMENT BASIN.

TEMPORARY SEDIMENT BASIN (WITH DEWATERING DEVICE)

SCALE: NTS



NOTE:
IF UNABLE TO PROVIDE REQUIRED DIMENSIONS, THEN PROVIDE SAME AREA BASED UPON THE REQUIRED DIMENSIONS.

Structure	pipe size (in)	Top Width of Rip Rap, 3Do (ft)	Bottom Width of Rip Rap, W (ft)	Length of Rip Rap, L (ft)	d_{50} Rip Rap Size (in)	Rip Rap thickness (in)
HW-101	24	6.0	12.0	10	6	14
HW-201	30	7.5	14.5	12	6	14
HW-202	18	4.5	9.5	8	6	14
HW-301	24	6.0	10.0	8	6	14
HW-401	30	7.5	17.5	15	6	14
HW-402	18	4.5	11.5	10	6	14
HW-403	36	9.0	18.0	15	6	14
HW-404	24	6.0	10.0	8	6	14
HW-501	42	10.5	28.5	25	12	27
HW-502	48	12.0	24.0	20	9	20
HW-503	24	6.0	15.0	13	6	14
HW-504	48	12.0	20.0	16	9	20

RIP RAP OUTLET PROTECTION

SCALE: NTS

WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

Date	Description	No.
REVISIONS		

STATE OF NEW YORK — RICHARD BURROW — 082168 — LICENSED PROFESSIONAL ENGINEER

OCT 0 2 2019

SIGNATURE DATE SIGNED

RICHARD BURROW
PROFESSIONAL ENGINEER NY Lic. No. 082168

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
PROPOSED DISTRIBUTION FACILITY PROJECT
SECTION 114, BLOCK 1, LOT 2.3
TOWN OF CLAY
ONONDAGA COUNTY NEW YORK

Drawing Title
SOIL EROSION AND SEDIMENT CONTROL NOTES & DETAILS

Project No. 100796101
Date 10/02/2019
Drawn By JRS
Checked By TLK

Drawing No. CE501

PROJECT NO. 100796101 LANGAN

Filename: \\langan.com\data\PAR\data1\100796101\Project Data\CAD\01\Sheet Files\Site Plan Approval\100796101-CE501-0101.dwg Date: 10/2/2019 Time: 18:04 User: shartingsmith Style Table: Langan.stb Layout: CE501

S-1
30" x 30"
MUTCD: R1-1

S-2
30" x 30"
MUTCD: R5-1

S-3
30" x 36"
MUTCD: R2-1

S-3 (mod)
30" x 30"
MUTCD: W8-1
(18" x 18" W13-1P PLACARD)

S-4
30" x 36"
MUTCD: R2-1

S-5
30" x 30"
MUTCD: W11-2
(12" x 18" W16-7L PLACARD)

S-6
30" x 30"
MUTCD: W11-2
(12" x 18" W16-7R PLACARD)

S-7
36" x 18"
MUTCD: R6-1

S-8
36" x 18"
MUTCD: R6-1

S-9
30" x 36"
MUTCD: R3-5

S-10
30" x 36"
MUTCD: R3-5

S-11
24" x 24"
MUTCD: R3-2

S-12
24" x 24"
MUTCD: R3-4

S-13
24" x 24"
MUTCD: R14-5

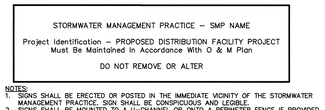
S-14
12" x 18"
MUTCD: N/A

S-15
12" x 18"
MUTCD: R7-8

S-16
12" x 18"
MUTCD: R7-8p

S-17
18" x 12"
MUTCD: N/A

S-18
12" x 18"
MUTCD: N/A



NOTES:
1. SIGNS SHALL BE ERECTED OR POSTED IN THE IMMEDIATE VICINITY OF THE STORMWATER MANAGEMENT PRACTICE. SIGN SHALL BE CONSPICUOUS AND LEGIBLE.
2. SIGNS SHALL BE MOUNTED TO A U-CHANNEL OR ONTO A PERIMETER FENCE IF PROVIDED.

S-19
(STORMWATER MANAGEMENT PRACTICE)
24" x 18"
MUTCD: N/A

S-20
30" x 30" x 30"
MUTCD: R1-2

SITE SIGNAGE

AS-1
60" x 48"
ADDRESS SIGN
DOUBLE (U-2) POST

AS-5
48" x 60"
DOUBLE (U-2) POST

AS-6
36" x 24"
DOUBLE (U-2) POST

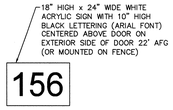
AS-13
36" x 24"

AS-14
36" x 24"

AS-15
36" x 24"

AS-16 (#1)
48" x 60"
WAYFINDING
DOUBLE (U-2) POST

AS-16 (#2)
48" x 60"
WAYFINDING
DOUBLE (U-2) POST



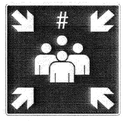
AS-20
24" x 18"
DOCK NUMBERS

AS-22
24" x 36"
DOUBLE (U-2) POST

AS-23
12" x 18"

AS-24
12" x 18"

AS-25
12" x 18"

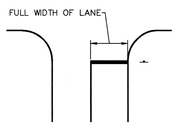


AS-26
36" x 36"
MUSTER AREA
(MOUNT ON LIGHT POLE)

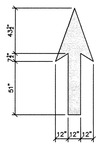
AS-29
12" x 18"

AS-30
12" x 18"

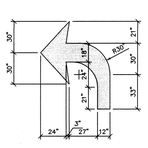
TENANT SPECIFIC SIGNAGE



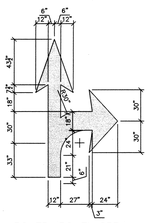
PG-1
STOP BAR
WIDTH OF LANE X 1'-0"
THERMAL-APPLIED WHITE STRIPE



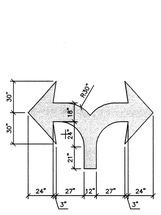
PG-5
3'-0" x 8'-6"
THERMAL-APPLIED
WHITE GRAPHIC



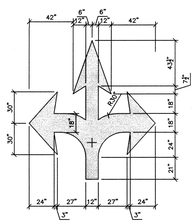
PG-6L (PG-6R OPP.)
8'-0" X 8'-0"
THERMAL-APPLIED WHITE
GRAPHIC



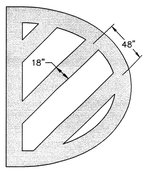
PG-7R (PG-7L OPP.)
8'-0" X 12'-0"
THERMAL-APPLIED WHITE
GRAPHIC



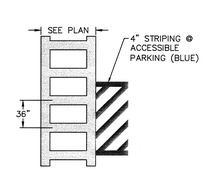
PG-8
10'-0" X 8'-0"
THERMAL-APPLIED
WHITE GRAPHIC



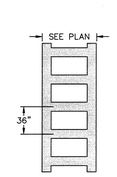
PG-9
10'-0" X 12'-0"
THERMAL-APPLIED WHITE
GRAPHIC



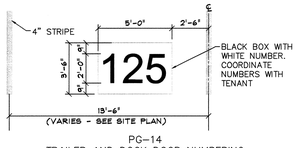
PG-10
18" STRIPING OUTLINE @
48" O.C. FILL @ 45°
THERMAL-APPLIED
YELLOW STRIPE



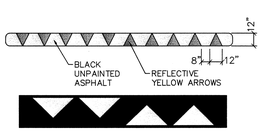
PG-11
12" STRIPING OUTLINE
AND FILL @ 36" O.C.
THERMAL-APPLIED WHITE
STRIPE



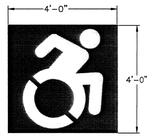
PG-12
12" STRIPING OUTLINE
AND FILL @ 36" O.C.
THERMAL-APPLIED
YELLOW STRIPE



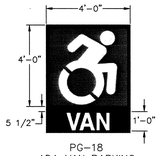
PG-14
TRAILER AND DOCK DOOR NUMBERING
5'-0" x 3'-6" (24" NUMBERS)



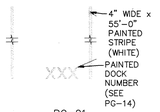
PG-16
SPEED BUMP STRIPING
12'-0" x 1'-0"



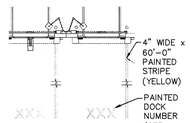
PG-17
ADA PARKING
4'-0" X 4'-0"
THERMAL-APPLIED WHITE SYMBOL
WITH BLUE BACKGROUND



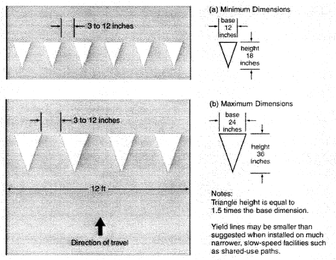
PG-18
ADA VAN PARKING
4'-0" X 5'-5 1/2"
THERMAL-APPLIED WHITE SYMBOL
WITH BLUE BACKGROUND



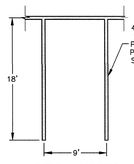
PG-21
TRAILER PARKING
12'-0" x 55'-0"
(4" WHITE STRIPE)



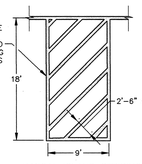
PG-22
LOADING DOCK STRIPING
13'-6" x 60'-0"
(4" YELLOW STRIPE)



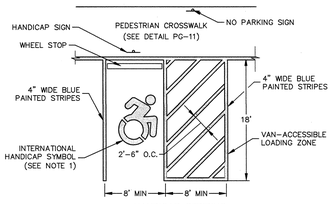
PG-30
YIELD STRIPING



TYPICAL STRIPING



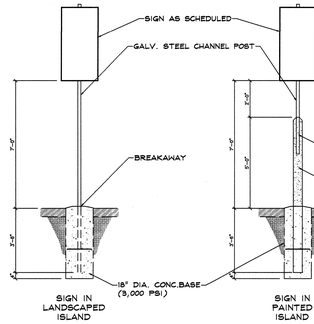
TYPICAL ISLAND STRIPING

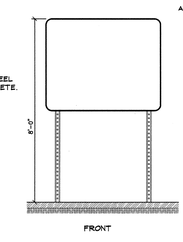


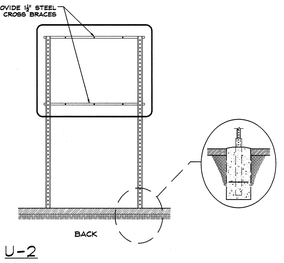
HANDICAP STRIPING

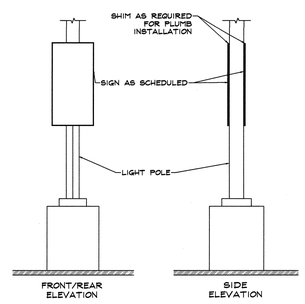
NOTES:
1. PAINTED HANDICAP SYMBOL TO BE IN ACCORDANCE W/ ADA STANDARDS.
2. STRIPING WORK SHALL BE REVIEWED AND ACCEPTED BY THE AUTHORITY HAVING JURISDICTION.

PAVEMENT GRAPHICS





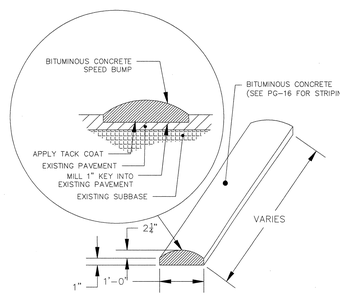




LIGHT POLE SIGNS

NOTES:
1. SEE ATTACHED PLANS FOR SIGN LOCATIONS.
2. "U1-E" LABEL DESIGNATES SIGNS ON TOP OF COMPACTED EARTH. "U1-C" LABEL DESIGNATES SIGNS ON TOP OF CONCRETE OR ASPHALTIC PAVING. "U-2" LABEL DESIGNATES SIGNS WITH DOUBLE SUPPORTS.
3. FOR U-1E SIGNS, PROVIDE A 36" MOUNTING TUBE (2 1/4" SQUARE STEEL POST) DRIVEN TO 1" TO 2" ABOVE GRADE. THE MOUNTING TUBE IS TO BE PAIRED WITH AN 18" BREAKAWAY SUPPORT TUBE (2 1/4" SQUARE STEEL POST). THE SIGN POST SINKS TO BASE OF THE ANCHOR TUBE AND BREAKAWAY SUPPORT WITH AN ANGLE BOLT.
4. FOR U-1C SIGNS, A PEDESTAL BASE IS TO BE MARRIED TO A 2" POST. THE BASE IS SHIMMED FOR PLUMB INSTALLATION OF THE POST AND PANEL. BASE FASTENS TO CONCRETE PAVING WITH MASONRY ANCHORS ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
5. U-1E AND U-1C SIGN PANELS IS TO BE INSTALLED AT 7' A.F.G. WITH THE POST EXTENDING WITHIN 2" OF THE TOP OF THE SIGN PANEL. TOP OF THE U-2 SIGN PANEL SHALL BE AT 8' A.F.G. INSTALLATION SHALL BE PLUMB, LEVEL, AND STRAIGHT.
6. SUPPORTS ARE TO BE SUFFICIENT FOR SECURE MOUNTING OF SIGN ON LIGHT POLE.
7. ALL HARDWARE SHALL BE NON-CORROSIVE. IF ADDITIONAL THICKNESS OF MATERIAL OR ADDITIONAL INTERNAL BRACING IS REQUIRED FOR SECURE INSTALLATION OR TO PROVIDE STABILITY ON LIGHT POLE, ALTERATIONS SHALL BE REFLECTED IN SHOP DRAWINGS. WIND LOADING AND DURABILITY SHALL BE TAKEN INTO ACCOUNT IN THE ENGINEERING OF THE SIGN.
8. GRAPHICS AND TYPOGRAPHY SIGN GRAPHICS ARE TO BE HEAVY DUTY '3M' REFLECTIVE VINYL FOR SIGNS ON LIGHT POLE.

SIGN POSTS



BITUMINOUS CONCRETE SPEED BUMP

SIGNAGE NOTES

1. REFER TO SIGNAGE AND STRIPING PLAN FOR LOCATION OF SIGNS AND PAVEMENT MARKINGS.
2. ALL SIGNAGE, STRIPING, AND OTHER TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN CONFORMANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
3. ALL STRIPING SHALL BE LONG LIFE EPOXY RESIN AND 4" WIDE UNLESS OTHERWISE NOTED. ALL PAVEMENT GRAPHICS SHALL BE HOT-APPLIED THERMOPLASTIC (REFLECTIVE).
4. COLOR SHALL BE WHITE ON ASPHALT AND YELLOW ON CONCRETE UNLESS OTHERWISE NOTED.
5. PROPOSED SPEED HUMPS (PG-15) AND SPEED BUMPS (PG-16) SHALL BE MADE OF ASPHALT. REMOVABLE RUBBER TRAFFIC CALMING DEVICES ARE NOT PERMITTED PER TENANT REQUIREMENTS.
6. ALL PROPOSED SIGNAGE AND STRIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE TENANT FULFILLMENT WORLDWIDE REAL ESTATE SIGNAGE STANDARDS REVISION 13 DATED QUARTER 4, 2016.
7. FINAL QUANTITIES SHALL BE COORDINATED AND VERFIED IN FIELD.
8. ADDITIONAL SIGNAGE NOT SHOWN ON GRAPHICS PLAN MAY BE REQUIRED PER LOCAL CODE AND/OR AHJ. SUB-CONTRACTOR SHALL COORDINATE WITH LOCAL AHJ AND PROVIDE AS REQUIRED.
9. MOUNT SIGNAGE ACCORDING TO LOCAL CODES.
10. TYPICAL SIGN FONT IS SET IN ARIAL.

WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

Date	Description	No.
REVISIONS		

STATE OF NEW YORK · RICHARD BURROW · 082168 · LICENSED PROFESSIONAL ENGINEER

OCT 0 2 2019

SIGNATURE DATE SIGNED

RICHARD BURROW
PROFESSIONAL ENGINEER NY Lic. No. 082168

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

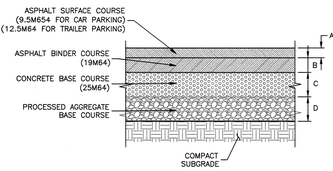
Project	PROPOSED DISTRIBUTION FACILITY PROJECT SECTION 114, BLOCK 1, LOT 2.3 TOWN OF CLAY ONONDAGA COUNTY NEW YORK
Drawing Title	SIGNAGE AND STRIPING DETAILS
Project No.	100796101
Date	10/02/2019
Drawn By	JRS
Checked By	TLK
Drawing No.	CS500

©2019 Langan

Filename: I:\langan.com\data\PAR\data1\100796101\Project Data\CAD\01\Sheet Files\Site Plan Approval\100796101-CS500-0101.dwg Date: 10/2/2019 Time: 18:04 User: ahartingsmith Style Table: Langan.stb Layout: CS500

LANGAN
PROJECT NO. 100796101

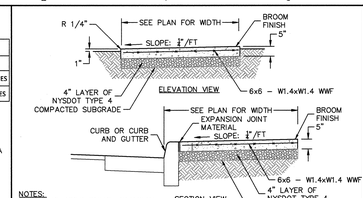
ASPHALT SECTION	SURFACE COURSE 'A'	SURFACE COURSE 'A'	BINDER COURSE 'B'	BASE 'C'	BASE 'D'
CAR PARKING	1.5 INCHES	-	2.5 INCHES	6 INCHES	-
TRAILER PARKING	-	2 INCHES	-	4 INCHES	10 INCHES
ACCESS DRIVES & TRUCK COURTS	1.5 INCHES	-	2.5 INCHES	4 INCHES	8 INCHES



NOTES:

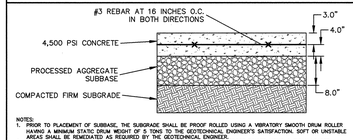
1. PRIOR TO PLACEMENT OF SUBBASE, THE SUBGRADE SHALL BE PROOF ROLLED TO THE GEOTECHNICAL ENGINEER'S SATISFACTION. SOFT OR UNSTABLE AREAS SHALL BE REMEDIATED AS REQUIRED BY THE GEOTECHNICAL ENGINEER.
2. PRIOR TO ANY PAVING ACTIVITIES, THE SUBBASE SHALL BE PROOF ROLLED TO THE GEOTECHNICAL ENGINEER'S SATISFACTION. SOFT OR UNSTABLE AREAS SHALL BE REMEDIATED AS REQUIRED BY THE GEOTECHNICAL ENGINEER.
3. PAVING BASE COURSE SHALL BE CONSTRUCTED IN LAYERS NOT LESS THAN 2 INCHES AND NOT MORE THAN 4 INCHES THICK PER LIFT.
4. ALL AREAS TO BE PAVED SHALL BE PROOFROLLED TO THE GEOTECHNICAL ENGINEER'S SATISFACTION, WITH AT LEAST 4 PASSES OF EITHER A SMOOTH ROLLER HAVING A MINIMUM STATIC DRUM WEIGHT OF 5-TONS OR A FULLY LOADED TANDEM DUMP TRUCK. ANY SOFT AREAS SHALL BE REMOVED AND REPLACED WITH CLEAN, GRANULAR, FREE-DRAINING SOIL. FILL SHALL BE PLACED IN LOOSE LIFTS NOT TO EXCEED 12-INCHES AND SHALL BE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557.

ASPHALT PAVEMENT SECTION
SCALE: NTS



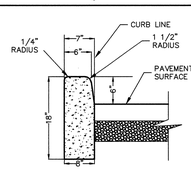
NOTES:
1. TO BE USED WHERE ADJACENT TO CURB OR CURB AND GUTTER.
2. CONCRETE TO BE 4,000 PSI.

CONCRETE SIDEWALK
SCALE: NTS



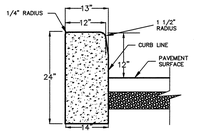
NOTES:
1. PRIOR TO PLACEMENT OF SUBBASE, THE SUBGRADE SHALL BE PROOF ROLLED USING A VIBRATORY SMOOTH DRUM ROLLER HAVING A MINIMUM STATIC DRUM WEIGHT OF 2 TONS OR THE GEOTECHNICAL ENGINEER'S SATISFACTION. SOFT OR UNSTABLE AREAS SHALL BE REMEDIATED AS REQUIRED BY THE GEOTECHNICAL ENGINEER.
2. PRIOR TO SLAB PLACEMENT, THE SUBBASE SHALL BE COMPACTED AND THEN PROOF ROLLED USING A FULLY LOADED TRI-AXLE DUMP TRUCK TO THE GEOTECHNICAL ENGINEER'S SATISFACTION. AREAS EXHIBITING EXCESSIVE SOIL PUMPING AND ROTTING SHALL BE REMEDIATED AS REQUIRED BY THE GEOTECHNICAL ENGINEER.
3. SUBBASE SHALL BE CONSTRUCTED IN LAYERS NOT EXCEEDING 12-INCHES OF APPROVED GRANULAR FILL AND PLACED IN LOOSE LIFTS NOT TO EXCEED 12-INCHES AND SHALL BE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557.
4. TRANSVERSE AND LONGITUDINAL CONTROL JOINTS SHALL BE SAW CUT AT 15 FT MAXIMUM SPACING.
5. CONSTRUCTION JOINTS SHALL BE INSTALLED AT 135 FT MAXIMUM SPACING.
6. ALL JOINTS SHALL BE 1/4 THE SLAB DEPTH.
7. JOINTS IN CONCRETE PAVING SHALL BE SEALED WITH SILICONE SEALANT EQUAL TO DOW CORNING 890-SL SELF-LEVELING.
8. CONCRETE SHALL HAVE A WATER-CEMENT RATIO OF 0.45 AND 6% AIR ENTRAINMENT.
9. CONCRETE SHALL BE WET CURED OR CURED WITH PIGMENTED ASTM C309 CURING COMPOUND AND PROTECTED MINIMUM 7 DAYS.
10. PROVIDE 1-INCH DIAMETER X 18-INCH LONG SMOOTH DOWELS SPACED 12 INCH ON CENTER AT ALL CONSTRUCTION JOINTS.
11. BROOM FINISH SHALL BE LIGHT TO MEDIUM TEXTURE.

CONCRETE PAVEMENT SECTION
SCALE: NTS



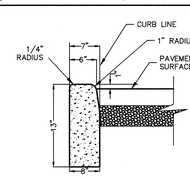
NOTES:
1. CONCRETE SHALL BE 4,500 PSI CLASS 'B' AIR-ENTRAINED CONCRETE.
2. TRANSVERSE JOINTS 1/2" WIDE SHALL BE INSTALLED IN THE CURB AT 20 FOOT INTERVALS AND SHALL BE FILLED WITH PREFORMED BITUMINOUS JOINT FILLER.
3. ALL CURBS SHALL BE INSTALLED ON AN APPROVED, COMPACTED SUBGRADE.

6-INCH CONCRETE CURB
SCALE: NTS



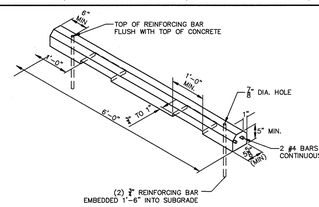
NOTES:
1. CONCRETE SHALL BE 4,500 PSI CLASS 'B' AIR-ENTRAINED CONCRETE.
2. TRANSVERSE JOINTS 1/2" WIDE SHALL BE INSTALLED IN THE CURB AT 20 FOOT INTERVALS AND SHALL BE FILLED WITH PREFORMED BITUMINOUS JOINT FILLER.
3. ALL CURBS SHALL BE INSTALLED ON AN APPROVED, COMPACTED SUBGRADE.

12-INCH CONCRETE CURB
SCALE: NTS

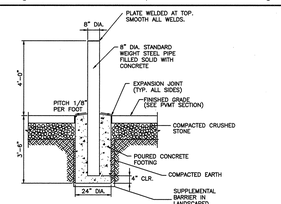


NOTES:
1. CONCRETE SHALL BE 4,500 PSI CLASS 'B' AIR-ENTRAINED CONCRETE.
2. TRANSVERSE JOINTS 1/2" WIDE SHALL BE INSTALLED IN THE CURB AT 20 FOOT INTERVALS AND SHALL BE FILLED WITH PREFORMED BITUMINOUS JOINT FILLER.
3. ALL CURBS SHALL BE INSTALLED ON AN APPROVED, COMPACTED SUBGRADE.

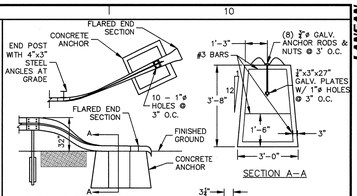
DEPRESSED CURB
SCALE: NTS



CONCRETE AUTO WHEEL STOP
SCALE: NTS



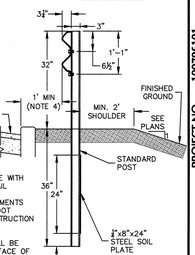
STEEL BOLLARD
SCALE: NTS



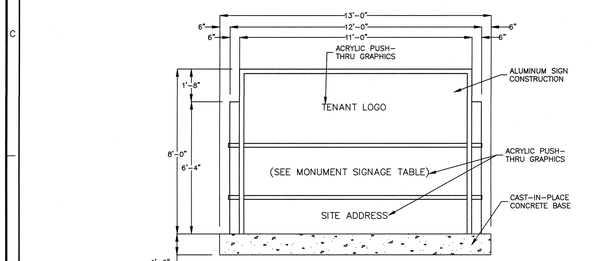
TERMINAL SECTION WITH CONCRETE ANCHOR

POST SPACING TABLE	
PAVEMENT ℄ RADIUS	STANDARD SPACING
>220'	12'-6"
111'-220'	6'-3"
76'-110'	4'-2"
50'-75'	3'-1½"

NOTES:
1. GUIDE RAIL SHALL BE IN ACCORDANCE WITH NYSDOT CORRUGATED BEAM GUIDE RAIL STANDARD SHEET 606-07.
2. GUIDE RAIL SHALL MEET ALL REQUIREMENTS OF THE LATEST EDITION OF THE NYSDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, SECTION 710-20.
3. DIP-DOWN ENDS ARE PREFERRED.
4. THE OFFSET OF THE GUIDE RAIL SHALL BE MEASURED FROM FACE OF CURB TO FACE OF RAIL. THE RAIL MOUNTING HEIGHT PLACED BEHIND THE CURB (REGARDLESS OF CURB HEIGHT OR SPEED) SHALL BE MEASURED FROM THE PAVEMENT WHEN THE OFFSET IS 1'-0" OR LESS AND TO THE GROUND SURFACE UNDER THE FACE OF THE RAIL WHEN THE OFFSET IS GREATER THAN 1'-0".

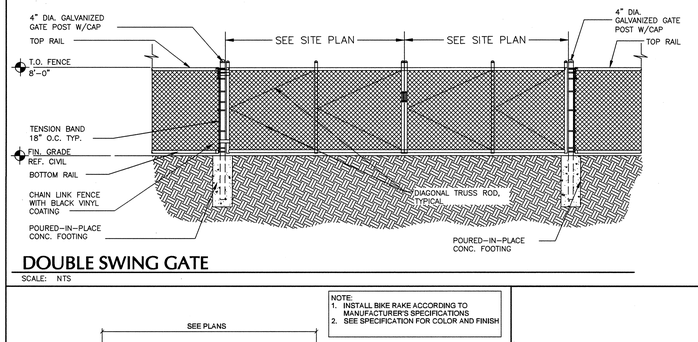


STEEL GUIDE RAIL
SCALE: NTS

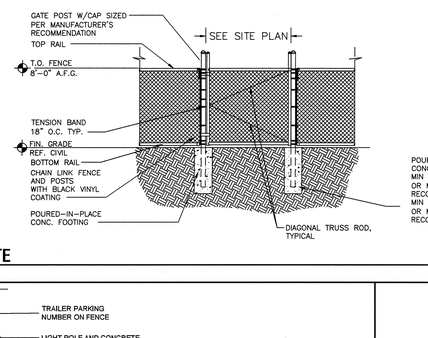


NOTE:
MONUMENT SIGNS TO BE INTERNALLY ILLUMINATED.

MONUMENT SIGN
SCALE: NTS



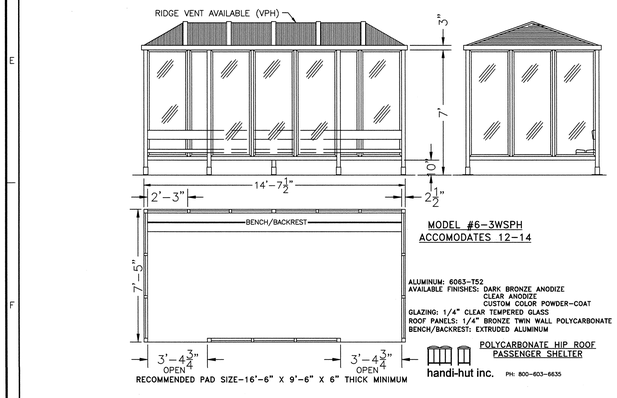
DOUBLE SWING GATE
SCALE: NTS



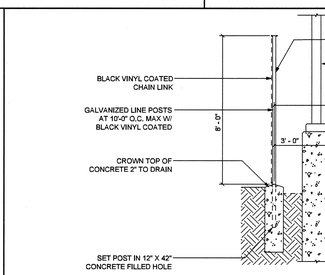
SWING GATE
SCALE: NTS

SECTION

GRAVEL ACCESS ROAD
SCALE: NTS



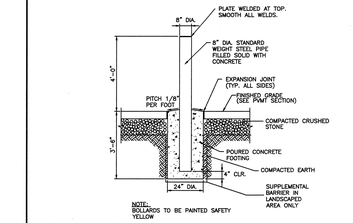
HANDI-HUT SHELTER
SCALE: NTS



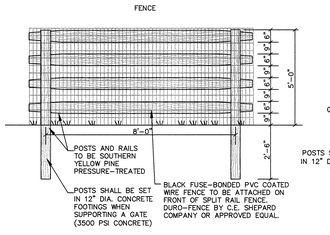
NOTE:
1. INSTALL BIKE RAKE ACCORDING TO MANUFACTURER'S SPECIFICATIONS
2. SEE SPECIFICATION FOR COLOR AND FINISH

MADRAX BIKE RACK (HW238-17-IG)
SCALE: NTS

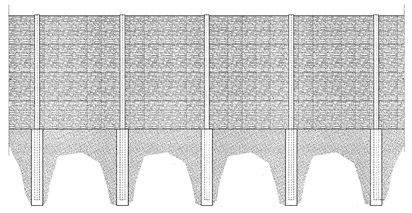
FENCE AT TRAILER PARKING
SCALE: NTS



STEEL BOLLARD
SCALE: NTS



SPLIT RAIL FENCE AND GATE
SCALE: NTS



NOTE CONTRACTOR TO CONFIRM FINAL DESIGN WITH MANUFACTURER PRIOR TO CONSTRUCTION OF PLYWALL. FOUNDATION AND NUMBER OF PANELS TO BE PER MANUFACTURER RECOMMENDATION WITH CONSIDERATION GIVEN TO GEOTECHNICAL CONDITIONS ONSITE.

PLYWALL
SCALE: NTS

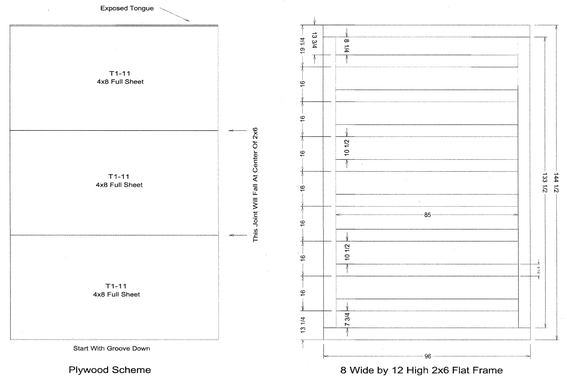
PLYWALL®

8' Wide X 12' High

STANDARD DRAWING (40 psf) rev: 01-6-06

PANEL DETAILS

THIS PUBLICATION CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION BELONGING TO HOOVER TREATED WOOD PRODUCTS, INC. AND IS NOT TO BE USED, DISCLOSED OR REPRODUCED IN WHOLE OR PART WITHOUT PRIOR WRITTEN CONSENT OF HOOVER TREATED WOOD PRODUCTS, INC.



COPYRIGHT 2002-2006 BY HOOVER TREATED WOOD PRODUCTS, INC., PRINTED IN THE UNITED STATES OF AMERICA. ALL RIGHTS RESERVED.
THIS PUBLICATION OR PARTS THEREOF, MAY NOT BE REPRODUCED IN ANY FORM WITHOUT PERMISSION OF HOOVER TREATED WOOD PRODUCTS, INC.

WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

Date	Description	No.
REVISIONS		

STATE OF NEW YORK · RICHARD BURROW · 082168 · LICENSED PROFESSIONAL ENGINEER

SIGNATURE — OCT 0 2 2019 DATE SIGNED

RICHARD BURROW
PROFESSIONAL ENGINEER NY Lic. No. 082168

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
PROPOSED DISTRIBUTION FACILITY PROJECT
SECTION 114. BLOCK 1, LOT 2.3
TOWN OF CLAY
ONONDAGA COUNTY NEW YORK

Drawing Title
SITE CONSTRUCTION DETAILS (1 OF 4)

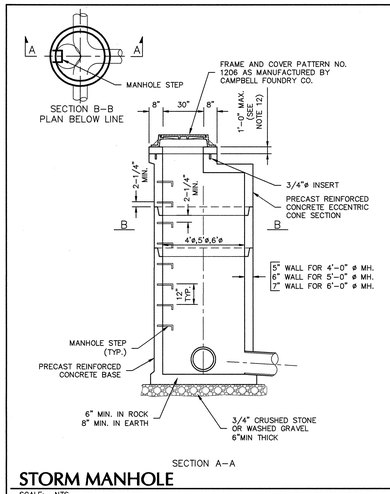
Project No. 100796101
Date 10/02/2019
Drawn By JRS
Checked By TLK

Drawing No. CS501

LANGAN PROJECT NO. 100796101

©2019 Langan

Filename: \\langan.com\data\PAR\data1\100796101\Project Data\CAD\01Sheet Files\Site Plan Approval\100796101-CS501-0101.dwg Date: 10/2/2019 Time: 18:04 User: shartingsmith Style Table: Langan.stb Layout: CS501



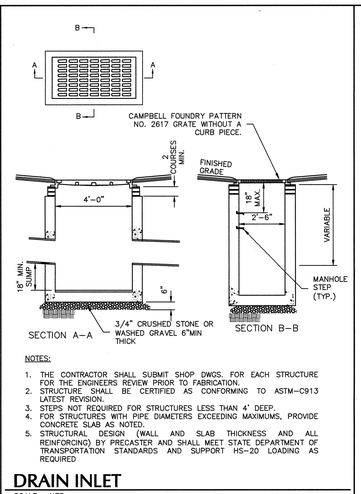
STORM MANHOLE

SCALE: NTS

STORM MANHOLE NOTES

1. THE DEPTH OF THE INVERT CHANNEL SHALL BE EQUAL TO 3/4 OF THE DIAMETER OF THE SEWER.
2. THE SHELF SHALL SLOPE TOWARD THE INVERT CHANNEL AT A RATE OF 1" PER FOOT.
3. TYPE "B" MANHOLES (SHALLOW TYPE) TO BE PROVIDED WHERE REQUIRED BY DEPTH CONDITIONS.
4. FOR MANHOLES HAVING 5' DIA. AND 6' DIA. BASE, REDUCTION IN DIA. TO 4' SHALL START AT THE FIRST JOINT ABOVE THE UPPERMOST PIPE CONNECTION TO WALL WHERE DEPTH IS SUFFICIENT.
5. ALL MANHOLE FRAMES SHALL BE BOLTED TO THE CONE SECTION WITH 2-3/4" DIA. BOLTS WITH WASHERS AND NUTS. BOLTS TO BE AT 180° ON BOLT CIRCLE.
6. ALL CONCRETE SHALL BE 4000 PSI MINIMUM.
7. ENTIRE OUTSIDE SURFACE OF MANHOLE SHALL RECEIVE TWO COATS OF BITUMINOUS COATING. KOPPERS 300M PENNOXY TAR 32-B-4, OR APPROVED EQUAL.
8. INSTALL 2 LAYERS OF PLASTIC PREFORMED JOINT SEALANT BETWEEN ALL SECTIONS & UNDER FRAME.
9. MANHOLE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ASTM C478.
10. STEPS TO ALUMINUM ALLOY WITH DEPRESSED TREAD. STEEL REINFORCED POLYPROPYLENE IS OPTIONAL. (SEE DETAIL-ALUMINUM MANHOLE STEP AND POLYPROPYLENE MANHOLE STEP)
11. 4' DIA. MANHOLE – 8" TO 15" PIPES
    5' DIA. MANHOLE – 16" TO 27" PIPES
    6' DIA. MANHOLE – 30" TO 48" PIPES
12. WHEN TWO OR MORE GRADE ADJUSTMENT RINGS ARE USED, A WATERTIGHT PVC CONNECTOR SHALL BE INSTALLED BETWEEN THE FRAME AND THE CONE. CONNECTOR SHALL BE WATER-LOK CONNECTOR BFA ANTI-FLOATING BY A-LOK PRODUCTS INC. OR APPROVED EQUAL.
13. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER'S APPROVAL.
14. SOIL CONDITIONS BELOW STRUCTURE DEEMED UNSUITABLE BY THE FIELD ENGINEER SHALL BE EXCAVATED TO A SUITABLE MATERIAL OR A MAXIMUM OF TWO ADDITIONAL FEET AND BACKFILLED WITH 3/4" CLEAN CRUSHED STONE.

PIPE SIZE RANGE	WIDTH (I.D.)
8" TO 15" PIPES	4'-0"ø
16" TO 27" PIPES	5'-0"ø
30" TO 48" PIPES	6'-0"ø
60" PIPES	7'-0"ø

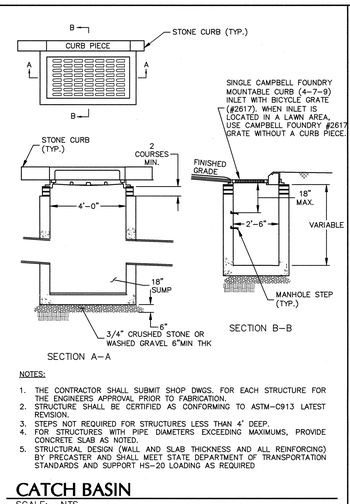


DRAIN INLET

SCALE: NTS

NOTES:

1. THE CONTRACTOR SHALL SUBMIT SHOP DWGS. FOR EACH STRUCTURE FOR THE ENGINEERS REVIEW PRIOR TO FABRICATION.
2. STRUCTURE SHALL BE CERTIFIED AS CONFORMING TO ASTM-C913 LATEST REVISION.
3. STEPS NOT REQUIRED FOR STRUCTURES LESS THAN 4' DEEP.
4. FOR STRUCTURES WITH PIPE DIAMETERS EXCEEDING MAXIMUMS, PROVIDE CONCRETE SLAB AS NOTED.
5. STRUCTURAL DESIGN (WALL AND SLAB THICKNESS AND ALL REINFORCING) BY PRECASTER AND SHALL MEET STATE DEPARTMENT OF TRANSPORTATION STANDARDS AND SUPPORT HS-20 LOADING AS REQUIRED

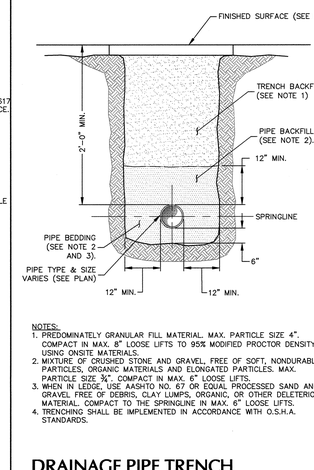


CATCH BASIN

SCALE: NTS

NOTES:

1. THE CONTRACTOR SHALL SUBMIT SHOP DWGS. FOR EACH STRUCTURE FOR THE ENGINEERS APPROVAL PRIOR TO FABRICATION.
2. STRUCTURE SHALL BE CERTIFIED AS CONFORMING TO ASTM-C913 LATEST REVISION.
3. STEPS NOT REQUIRED FOR STRUCTURES LESS THAN 4' DEEP.
4. FOR STRUCTURES WITH PIPE DIAMETERS EXCEEDING MAXIMUMS, PROVIDE CONCRETE SLAB AS NOTED.
5. STRUCTURAL DESIGN (WALL AND SLAB THICKNESS AND ALL REINFORCING) BY PRECASTER AND SHALL MEET STATE DEPARTMENT OF TRANSPORTATION STANDARDS AND SUPPORT HS-20 LOADING AS REQUIRED

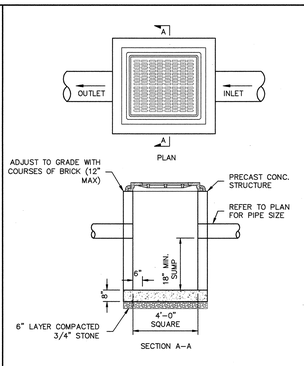


DRAINAGE PIPE TRENCH

SCALE: NTS

NOTES:

1. PREDOMINATELY GRANULAR FILL MATERIAL. MAX. PARTICLE SIZE 4". COMPACT IN MAX. 8" LOOSE LIFTS TO 95% MODIFIED PROCTOR DENSITY USING ONSITE MATERIALS.
2. MIXTURE OF CRUSHED STONE AND GRAVEL, FREE OF SOFT, NONDURABLE PARTICLES, ORGANIC MATERIALS AND ELONGATED PARTICLES. MAX. PARTICLE SIZE ¾". COMPACT IN MAX. 6" LOOSE LIFTS.
3. WHEN IN LEDGE, USE AASHTO NO. 67 OR EQUAL PROCESSED SAND AND GRAVEL FREE OF DEBRIS, CLAY LUMPS, ORGANIC, OR OTHER DELETERIOUS MATERIAL. COMPACT TO THE SPRINGLINE IN MAX. 6" LOOSE LIFTS.
4. TRENCHING SHALL BE IMPLEMENTED IN ACCORDANCE WITH O.S.H.A. STANDARDS.

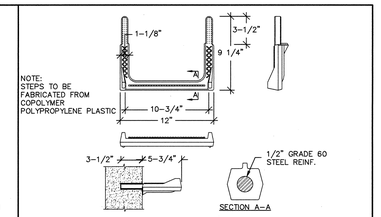


OVERSIZED DRAINAGE INLET

SCALE: NTS

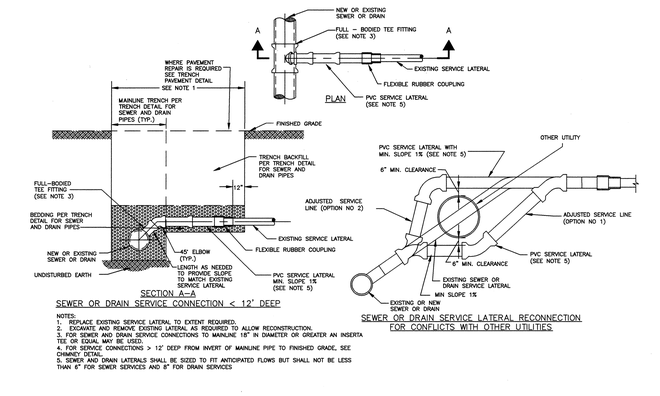
NOTES:

1. 4000 PSI CONCRETE SHALL BE USED.
2. FRAME AND GRATE TO BE CAMPBELL FOUNDRY CASTING NUMBER 22532.
3. PROVIDE LADDER RUNGS AT 12" CENTER TO CENTER.
4. WHEN THE DEPTH OF AN INLET EXCEEDS 10 FEET AS MEASURED FROM TOP OF GRATE TO INVERT, WALLS BELOW A DEPTH OF 8 FEET SHALL BE 12" THICK AND THE DEPTH OF FOUNDATION INCREASED TO 12".



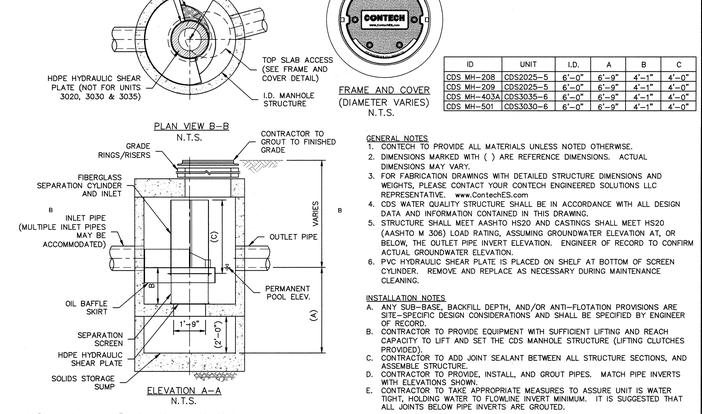
POLYPROPYLENE MANHOLE STEP

SCALE: NTS



ROOF LEADER CONNECTION

SCALE: NTS



ID	UNIT	I.D.	A	B	C
CDS MH-208	CDS2025-5	6'-0"	6'-9"	4'-1"	4'-0"
CDS MH-209	CDS2025-5	6'-0"	6'-9"	4'-1"	4'-0"
CDS MH-403A	CDS3035-6	6'-0"	6'-9"	4'-1"	4'-0"
CDS MH-501	CDS3030-6	6'-0"	6'-9"	4'-1"	4'-0"

GENERAL NOTES

1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
4. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET AASHTO HS20 AND CASTINGS SHALL MEET HS20 (AASHTO M 306) LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
6. PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

INSTALLATION NOTES

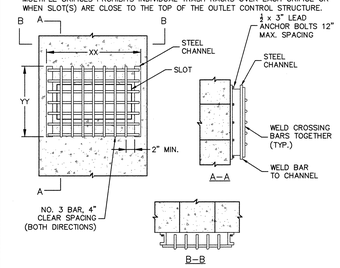
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
C. CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

CDS WATER QUALITY UNIT

SCALE: NTS

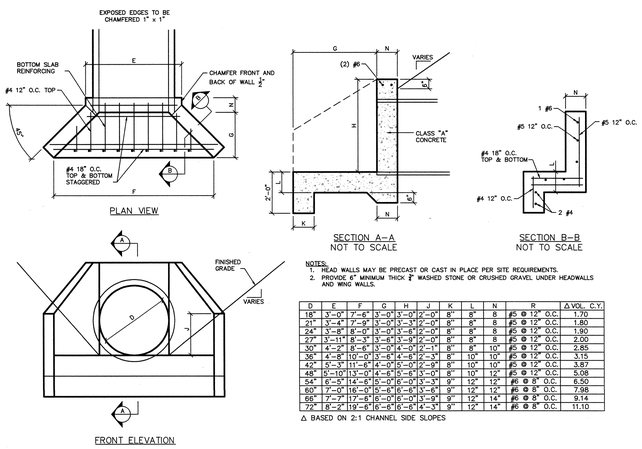
TYPICAL TRASH RACK DIMENSIONS TABLE		
ORIFICE/SLOT	XX (IN)	YY (IN)
12"Lx6"H SLOT	20	14
14"Lx6"H SLOT	24	14
18"Lx6"H SLOT	26	14
24"Lx6"H SLOT	32	14
26"Lx6"H SLOT	34	14
26"Lx8"H SLOT	34	16
30"Lx6"H SLOT	38	14
32"Lx8"H SLOT	42	16
34"LX6"H SLOT	46	14

NOTE:
1. DIMENSION XX CAN BE ADJUSTED WHEN THE SEPARATION DISTANCE BETWEEN MULTIPLE ORIFICES PROHIBITS INDIVIDUAL TRASH RACKS OVER EACH ORIFICE OR WHEN SLOT(S) ARE CLOSE TO THE TOP OF THE OUTLET CONTROL STRUCTURE.



OUTLET STRUCTURE TRASH RACK

SCALE: NTS



NOTES:

1. HEAD WALLS MAY BE PRECAST OR CAST IN PLACE PER SITE REQUIREMENTS.
2. PROVIDE 6" MINIMUM THICK ¾" WASHED STONE OR CRUSHED GRAVEL UNDER HEADWALLS AND WING WALLS.

D	E	F	G	H	J	K	L	N	R	Δ VOL. C.Y.
18"	3'-0"	7'-6"	3'-0"	3'-0"	2'-0"	8"	8"	8	#5 @ 12" O.C.	1.70
21"	3'-4"	7'-9"	3'-0"	3'-3"	2'-0"	8"	8"	8	#5 @ 12" O.C.	1.80
24"	3'-8"	8'-0"	3'-0"	3'-6"	2'-0"	8"	8"	8	#5 @ 12" O.C.	1.90
27"	3'-11"	8'-3"	3'-0"	3'-9"	2'-0"	8"	8"	8	#5 @ 12" O.C.	2.00
30"	4'-2"	8'-6"	3'-0"	4'-0"	2'-1"	8"	8"	10"	#5 @ 12" O.C.	2.85
36"	4'-8"	10'-0"	3'-6"	4'-6"	2'-3"	8"	10"	10"	#5 @ 12" O.C.	3.15
42"	5'-3"	11'-6"	4'-0"	5'-0"	2'-9"	8"	10"	10"	#5 @ 12" O.C.	3.87
48"	5'-10"	13'-0"	4'-6"	5'-6"	3'-0"	8"	10"	12"	#5 @ 12" O.C.	5.08
54"	6'-5"	14'-6"	5'-0"	6'-0"	3'-3"	9"	12"	12"	#5 @ 8" O.C.	6.50
60"	7'-0"	16'-0"	5'-6"	6'-6"	3'-6"	9"	12"	12"	#5 @ 8" O.C.	7.98
66"	7'-7"	17'-6"	6'-0"	7'-0"	3'-9"	9"	12"	14"	#5 @ 8" O.C.	9.14
72"	8'-2"	19'-6"	6'-6"	7'-6"	4'-3"	9"	12"	14"	#6 @ 8" O.C.	11.10

Δ BASED ON 2:1 CHANNEL SIDE SLOPES

CONCRETE HEADWALL

SCALE: NTS

WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

Date	Description	No.
	REVISIONS	

STATE OF NEW YORK RICHARD BURROW 082168 LICENSED PROFESSIONAL ENGINEER

OCT 02 2019

SIGNATURE DATE SIGNED

RICHARD BURROW
PROFESSIONAL ENGINEER NY Lic. No. 082168

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
PROPOSED DISTRIBUTION FACILITY PROJECT
SECTION 114. BLOCK 1, LOT 2.3
TOWN OF CLAY
ONONDAGA COUNTY NEW YORK

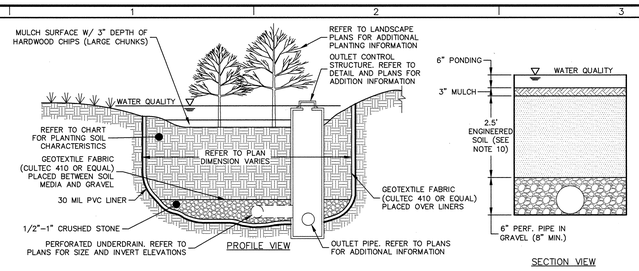
Drawing Title
SITE CONSTRUCTION DETAILS (2 OF 4)

Project No. 100796101
Date 10/02/2019
Drawn By JRS
Checked By TLK

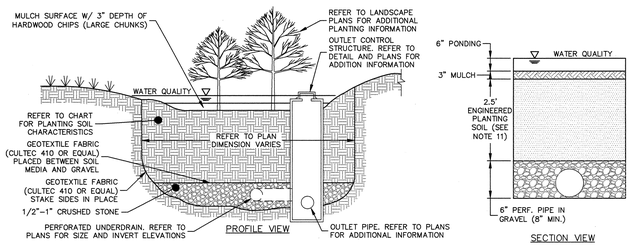
Drawing No. CS502

PROJECT NO. 100796101

Filename: \\langan.com\data\PAR\data1\100796101\Project Data\CAD\01\Sheet Files\Site Plan Approval\100796101-CS501-0101.dwg Date: 10/2/2019 Time: 18:04 User: ahartingsmith Style Table: Langan.stb Layout: CS502



BIORETENTION WITH UNDERDRAIN AND LINER



BIORETENTION WITH UNDERDRAIN

CONSTRUCTION SEQUENCE:

1. STAKE THE LIMITS AND PROVIDE OFFSETS OF THE PROPOSED BIORETENTION AREA AND SET ACCESSIBLE REFERENCE ELEVATIONS, AS NEEDED.
2. INSTALL EROSION AND SEDIMENT CONTROL MEASURES CONSISTENT WITH OVERALL DEVELOPMENT E&S PLAN.
3. STABILIZE THE GRADING AROUND THE PROPOSED AREA AND DIVERT RUNOFF AWAY FROM THE PROPOSED EXCAVATIONS.
4. EXCAVATE THE BIORETENTION AREA TO THE PROPOSED LINES AND GRADES SHOWN ON THE SITE PLANS, AND SCARIFY THE EXISTING SOIL SURFACES, TAKING CARE NOT TO COMPACT THE IN-SITU SOILS.
5. INSTALL THE UNDERDRAIN SYSTEM AND OVERFLOW STRUCTURES. INSTALL THE FABRIC ON THE SIDEWALLS AND STAKE IN PLACE.
6. BACKFILL THE EXCAVATIONS WITH THE SOIL MIXTURE AS SHOWN ON THE PLANS AND SPECIFIED HEREIN.
7. FINISH GRADING THE SURFACE OF THE BIORETENTION AREA. LEAVE ROOM FOR 3-INCHES OF WOOD CHIP MULCH.
8. PRESOAK THE PLANTING MIXTURE PRIOR TO PLACEMENT OF PLANTING STOCK. ALLOW THE SOIL MIXTURE TO SETTLE NATURALLY BEFORE PLACING THE PLANTS.
9. PLANT VEGETATION WITHIN THE BIORETENTION AREA AS SPECIFIED IN THE PLANTING NOTES AND LANDSCAPE PLANS.
10. MULCH THE SURFACE WITH NOT MORE THAN 3-INCHES OF SINGLE PASS, HARDWOOD MULCH. REMOVE TEMPORARY SEDIMENT CONTROLS AND ANY ENTRANCE BLOCKS TO THE BIORETENTION AREA AFTER ACCEPTANCE BY THE DESIGN PROFESSIONAL AND THE LOCAL REGULATORY AUTHORITY.

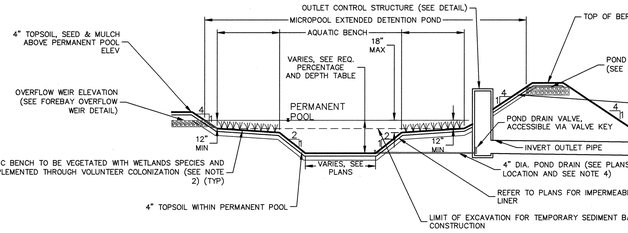
BIORETENTION AREA

TREATMENT OF STORMWATER RUNOFF IS ACCOMPLISHED IN THE PROPOSED BIORETENTION AREAS BY MEANS OF INFILTRATION USING PLANTING SOILS. PLANTINGS OF NATIVE VEGETATION WITHIN THE BIORETENTION AREA MAINTAIN THE INFILTRATIVE CAPACITY OF THE SYSTEM, PROVIDE SOIL STABILIZATION, AND THE ATTENUATE NUTRIENTS AND OTHER CONTAMINANTS. MANAGEMENT ACTIONS INCLUDE THE FOLLOWING:

1. ALL BIORETENTION BASINS SHALL BE BUILT IN ACCORDANCE WITH NYSDEC STORMWATER MANAGEMENT DESIGN MANUAL INCLUDING APPENDIX C.
2. ANNUAL INSPECTION AND REPAIR OF OR REPLACEMENT OF TREATMENT COMPONENTS.
3. TWICE PER YEAR (SPRING AND FALL) INSPECT TREES AND SHRUBS TO EVALUATE HEALTH, REMOVE AND REPLACE DEAD OR DYING PLANTS, AND PRUNE DISEASED OR BROKEN PLANTS.
4. TREATMENT OF DISEASED VEGETATION WITH APPROPRIATE LOW-TOXICITY CHEMICALS (HERBICIDES, PESTICIDES).
5. WEED ANNUALLY AND PRUNE SHRUB VEGETATION UNTIL VEGETATION IS ESTABLISHED TO IMPROVE APPEARANCE.
6. REPLACE MULCH TO COVER EXPOSED SOIL AREA. REMOVE AND REPLACE MULCH EVERY TWO TO THREE YEARS. MULCH DEPTH NOT TO EXCEED 3-INCHES.
7. SAMPLE SOIL FOR FERTILITY EVERY THREE YEARS. ADDITION OF LIMESTONE ONE OR TWO TIMES PER YEAR TO MAINTAIN PROPER PH IS RECOMMENDED. FIELD OR LABORATORY TESTING FOR PH IS ACCEPTABLE.
8. CHECK BASIN FOR SEDIMENT BUILD UP AND REMOVE SEDIMENT IF GREATER THAN ONE INCH.
9. CHECK BASIN AFTER STORM EVENT TO ENSURE THAT IT DEWATERS PROPERLY (DRAINS WITHIN 48-HOURS).
10. CHECK OUTLET OVERFLOW FOR EVIDENCE OF BLOCKAGE AND SOIL EROSION AT DISCHARGE POINTS. CLEAN BLOCKAGES AS REQUIRED AND STABILIZE EROSIVE AREAS AS NEEDED.
11. SOIL PARAMETERS:

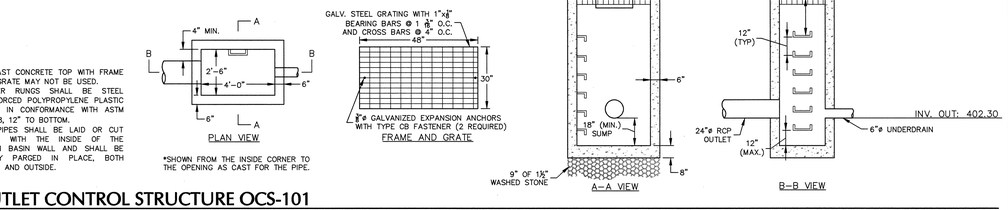
PARAMETER	VALUE
pH RANGE	5.2 TO 7.0
ORGANIC MATTER	1.5 TO 4.0%
MAGNESIUM	35 LBS/AC (MIN.)
PHOSPHORUS	75 LBS/AC (MIN.)
POTASSIUM	85 LBS/AC (MIN.)
SOLUBLE SALTS	500 PPM
CLAY	10 TO 25%
SILT	30 TO 35%
SAND	35 TO 60%

BIORETENTION
SCALE: NTS

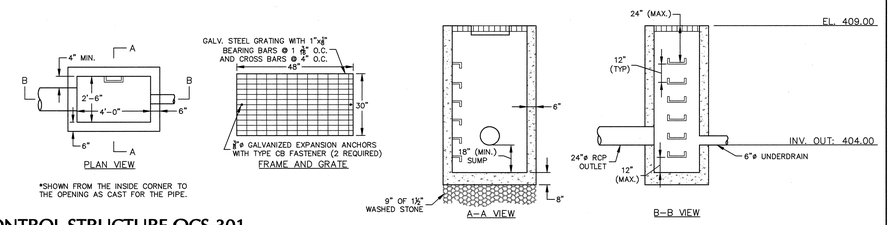


NOTES:
1. 30MM PVC LINER SHALL BE USED AS IMPERMEABLE LINING
2. REFER TO LANDSCAPING PLANS FOR POND PLANTING INFORMATION.
3. SEE OUTLET CONTROL STRUCTURE TABLE FOR ELEVATIONS AND SIZES OF INLET ORIFICES, INLET SLOTS, AND OUTLET PIPE. SEE OUTLET CONTROL STRUCTURE DETAILS FOR ADDITIONAL INFORMATION.
4. IF POND DRAINS ARE NOT SHOWN ON THE PLANS, THEN THE PONDS SHALL BE PUMPED OUT FOR ANY MAINTENANCE BELOW THE PERMANENT POOL ELEVATION.
5. PROPOSED STORMWATER PONDS SHALL BE UTILIZED AS TEMPORARY SEDIMENT BASINS DURING CONSTRUCTION.

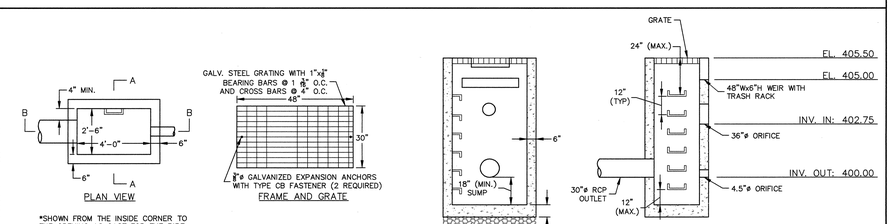
STORMWATER POND
SCALE: NTS



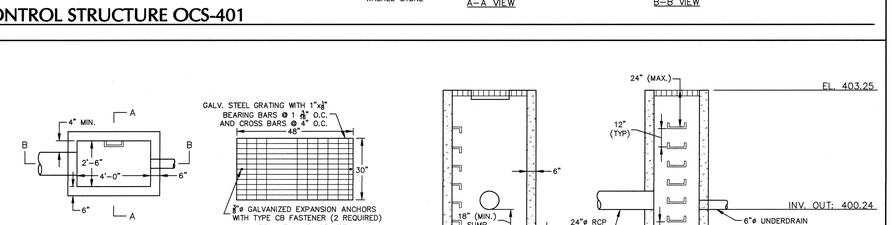
OUTLET CONTROL STRUCTURE OCS-101
SCALE: NTS



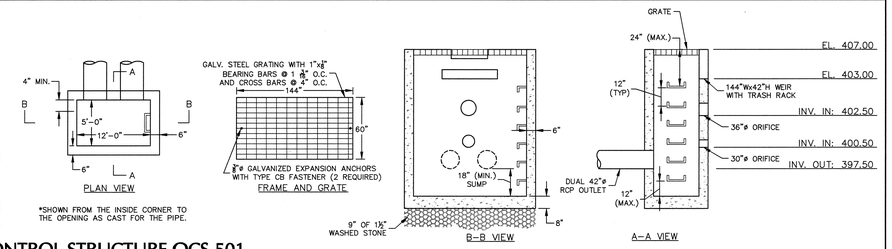
POND OUTLET CONTROL STRUCTURE OCS-301
SCALE: NTS



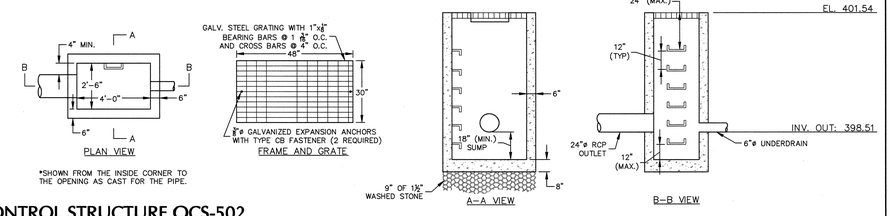
POND OUTLET CONTROL STRUCTURE OCS-401
SCALE: NTS



POND OUTLET CONTROL STRUCTURE OCS-402
SCALE: NTS



POND OUTLET CONTROL STRUCTURE OCS-501
SCALE: NTS



POND OUTLET CONTROL STRUCTURE OCS-502
SCALE: NTS

WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

Date	Description	No.
REVISIONS		

STATE OF NEW YORK RICHARD BURROW LICENSED PROFESSIONAL ENGINEER
OCT 0 2 2019
SIGNATURE DATE SIGNED
RICHARD BURROW
PROFESSIONAL ENGINEER NY Lic. No. 082168

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
PROPOSED DISTRIBUTION FACILITY PROJECT
SECTION 114, BLOCK 1, LOT 2.3
TOWN OF CLAY
ONONDAGA COUNTY NEW YORK

Drawing Title
SITE CONSTRUCTION DETAILS (3 OF 4)

Project No. 100796101
Date 10/02/2019
Drawn By JRS
Checked By TLK

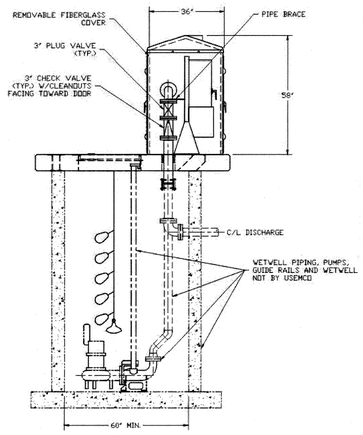
Drawing No. CS503

© 2019 Langan

Filename: \\langan.com\data\PAR\data1\100796101\Project Data\CADD\01SheetFiles\Site Plan Approval\100796101-CS501-0101.dwg Date: 10/2/2019 Time: 18:04 User: ahartingsmith Style Table: Langan.stb Layout: CS503

LANGAN PROJECT NO. 100796101

PAINT REQUIREMENTS:
PIPING EXTERIOR AND STEEL SURFACES APPLY 6 MILS EPOXY ENAMEL



STANDARD:

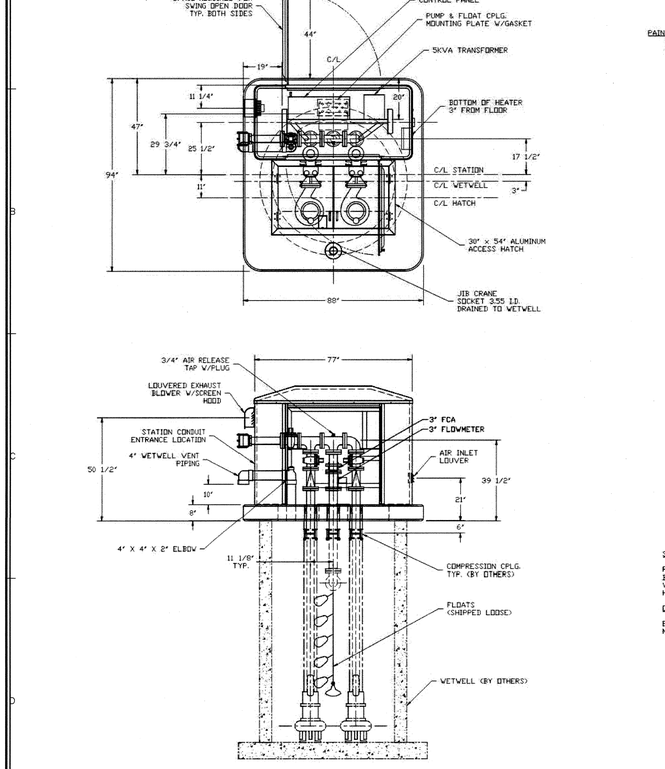
PIPING 3"
BASE: 88" X 94"
WETWELL: 60"
HATCH: 30" X 54"

OPTIONS:

EM = EMERGENCY BYPASS
MM = MAGMETER (KROHNE)

PRELIMINARY

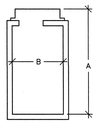
PUMP STATION
SCALE: NTS



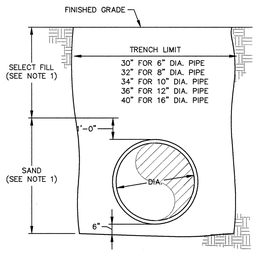
SANITARY MANHOLE NOTES

1. THE DEPTH OF THE INVERT CHANNEL SHALL BE EQUAL TO 3/4 OF THE DIAMETER OF THE SEWER.
2. THE SHELF SHALL SLOPE TOWARD THE INVERT CHANNEL AT A RATE OF 1" PER FOOT.
3. TYPE "B" MANHOLES (SHALLOW TYPE) TO BE PROVIDED WHERE REQUIRED BY DEPTH CONDITIONS.
4. SEE THE SPECIFICATIONS FOR LENGTH OF PIPE CONNECTIONS TO MANHOLE.
5. ALL CONCRETE SHALL BE 4000 PSI MINIMUM.
6. ENTIRE OUTSIDE SURFACE OF MANHOLE SHALL RECEIVE TWO COATS OF BITUMINOUS COATING. KOPPERS 300M PENNOXY TAR 32-B-4, OR APPROVED EQUAL.
7. INSTALL 2 LAYERS OF PLASTIC PREFORMED JOINT SEALANT BETWEEN ALL SECTIONS & UNDER FRAME.
8. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR MANHOLE IN ACCORDANCE WITH SPECIFICATIONS.
9. 4' DIA. MANHOLE – FROM 8" TO 30" PIPES
10. UNLESS OTHERWISE SPECIFIED, SANITARY SEWER MANHOLES SHALL HAVE LETTERS "SEWER", AND STORM DRAIN MANHOLES SHALL HAVE LETTERS "DRAIN" CAST ON THE COVERS.
11. THE PRECAST CONCRETE STRUCTURE SHALL COMPLY WITH ASTM SPECIFICATIONS C478.
12. ALL SANITARY SEWER MANHOLES ARE TO BE CONSTRUCTED WITH THE COMPRESSION TYPE RESILIENT SEAL ASSEMBLY EQUAL TO "OMEGA CONCRETE PRODUCTS INC.".
13. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH AND CONSTRUCT THE PROPER SIZE STRUCTURE INCLUDING THE NECESSARY OPENINGS TO ACCOMMODATE THE WORK, AS SHOWN ON THE PLANS OR ORDERED BY THE ENGINEER, AT NO ADDITIONAL COST.
14. ALL NECESSARY PATCHING SHALL BE ACCOMPLISHED WITH A NON-SHRINK CEMENT MORTAR GROUT EQUAL TO "SIKA-SET" AS MANUFACTURED BY THE SIKA CHEMICAL CORPORATION.

DEPTH "A"	WIDTH "B"
< 10'-0"	4'-0"ø
> 10'-0"	5'-0"ø



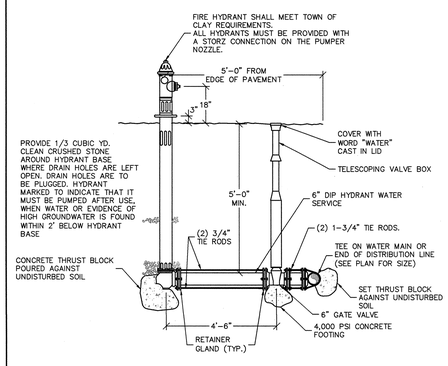
SANITARY MANHOLE
SCALE: NTS



NOTES:

1. SELECT FILL
   SHALL BE MATERIAL FREE FROM CINDERS, ASHES, REFUSE, VEGETABLE OR ORGANIC MATTER, BOULDERS, ROCKS AND STONES, ASPHALT, OR ANY OTHER MATERIAL DEEMED UNSUITABLE BY THE ENGINEER. STONES NOT GREATER THAN 8 INCHES IN THEIR GREATEST DIMENSION MAY BE USED, UNLESS OTHERWISE SPECIFIED, BUT MAY NOT COMPRISE MORE THAN 1% BY VOLUME OF THE BACKFILL MATERIAL.
2. SAND BACKFILL TO 1 FOOT ABOVE TOP OF PIPE, IN A WET OR ROCK TRENCH, GRAVEL MAY BE SPECIFIED BY THE ENGINEER IN LIEU OF SAND.

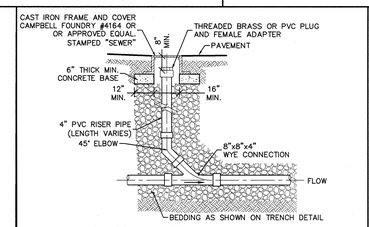
TRENCH DETAIL FOR WATER MAIN
SCALE: NTS



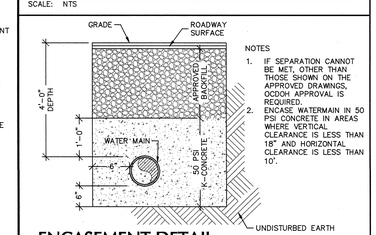
NOTES:

1. PUMPER OUTLET SHALL FACE STREET; HOSE OUTLETS SHALL BE PARALLEL TO STREET.
2. PLUMBNESS OF HYDRANT TO BE CHECKED IN TWO DIRECTIONS, 90 APART.
3. RODDING SHALL CONSIST OF TWO 3/4" THREADED RODS CAREFULLY COATED WITH BITUMASTIC PAINT. RODDING MAY BE OMITTED BETWEEN THE MAIN AND LATERAL VALVE ONLY WHERE A TAPPING VALVE OR HYDRANT VALVE ANCHORING TEE IS USED.
4. 1-1/2" STONE SHALL BE PLACED AROUND THE HYDRANT FROM THE BOTTOM OF THE TRENCH, BUT AT LEAST 6" BELOW THE BASE OF THE HYDRANT TO 6" ABOVE THE WASTE OPENING AND TO A DISTANCE OF 12" AROUND THE ELBOW.
5. THE HYDRANT LEAD SHALL BE A MINIMUM OF 6" IN DIAMETER. AUXILIARY VALVES SHALL BE INSTALLED ON ALL HYDRANT LEADS.
6. HYDRANT DRAINS SHOULD BE PLUGGED. WHEN THE DRAINS ARE PLUGGED THE BARRELS MUST BE PUMPED DRY AFTER USE DURING FREEZING WEATHER. A 3" BLACK CIRCLE SHALL BE PAINTED DIRECTLY UNDER THE PUMPER OUTLET.
7. WHERE HYDRANT DRAIN ARE NOT PLUGGED, A GRAVEL POCKET OR DRY WELL SHALL BE PROVIDED UNLESS NATURAL SOILS WILL PROVIDE ADEQUATE DRAINAGE.
8. HYDRANT DRAINS SHALL NOT BE CONNECTED OR LOCATED WITHIN 10' OF SANITARY SEWERS, STORM SEWERS OR STORM DRAINS.
9. HYDRANT DRAINS, WHERE ALLOWED, MUST BE ABOVE THE SEASONAL GROUND WATER TABLE.

FIRE HYDRANT
SCALE: NTS



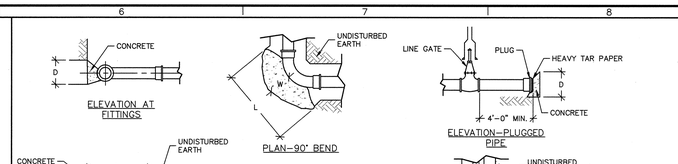
SANITARY CLEANOUT
SCALE: NTS



NOTES

1. IF SEPARATION CANNOT BE MET, OTHER THAN THOSE SHOWN ON THE APPROVED DRAWINGS, OCDOH APPROVAL IS REQUIRED.
2. ENCASE WATERMAIN IN 50 PSI CONCRETE IN AREAS WHERE VERTICAL CLEARANCE IS LESS THAN 18" AND HORIZONTAL CLEARANCE IS LESS THAN 10'.

ENCASEMENT DETAIL
SCALE: NTS



BASIS:

2,000 LB/SQ.FT. SOIL RESISTANCE
250 PSI WATER PRESSURE
CORRECTION FACTORS FOR OTHER SOILS:

SOFT CLAY	4
SAND	2
SAND & GRAVEL	1.33
SHALE	0.4

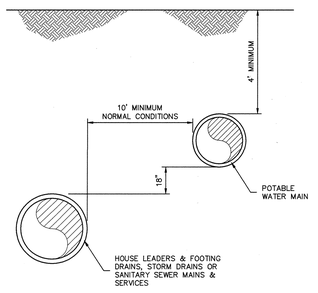
NOTES:

1. IF SOFT MATERIALS ARE ENCOUNTERED, THE THRUST BLOCKS SIZES SHALL BE ADJUSTED ACCORDINGLY.
2. CONCRETE TO BE 5,000 PSI.

THRUST BLOCK SCHEDULE

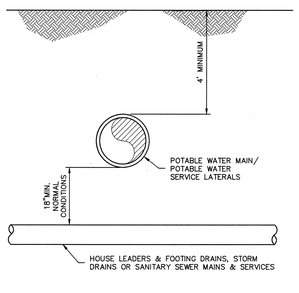
PIPE SIZE	TEE L	TEE D	22 1/2 L	22 1/2 D	45 L	45 D	90 L	90 D	W
6"	18"	15"	15"	12"	15"	12"	15"	15"	21"
8"	2'	18"	18"	12"	18"	12"	2'	18"	2'

THRUST BLOCKS
SCALE: NTS



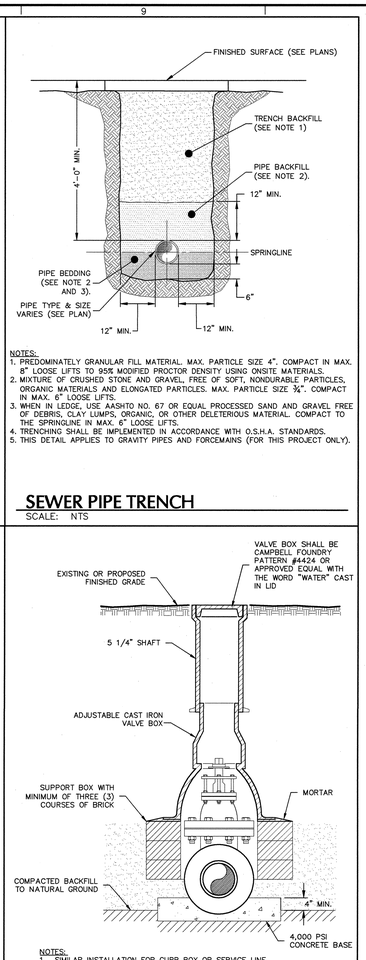
NOTE:
WHERE A 10' MINIMUM HORIZONTAL SEPARATION CANNOT BE OBTAINED DUE TO FIELD CONDITIONS, THE VERTICAL CLEAR DISTANCE SHALL BE A MINIMUM OF 18". HOWEVER, AN EXCEPTION TO THE 10' MINIMUM HORIZONTAL SEPARATION REQUIRES SEPARATE APPROVAL OF THE COUNTY HEALTH DEPARTMENT.

SEPARATION OF WATER MAIN AND SEWER PARALLEL INSTALLATION
SCALE: NTS



NOTE:
WATER MAINS PASSING UNDER SEWERS SHALL HAVE A VERTICAL CLEARANCE OF 18" MINIMUM BETWEEN THE SEWER AND WATER MAIN, AND THE SEWER SHALL BE SUPPORTED AS DIRECTED BY THE ENGINEER. AS REQUIRED, ONE FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE, THIS APPLIES WHEN THE WATER IS ABOVE OR BELOW THE SEWER. WHERE AN 18" SEPARATION CANNOT BE OBTAINED DUE TO FIELD CONDITIONS, SEPARATE APPROVAL OF THE COUNTY HEALTH DEPARTMENT SHALL BE REQUIRED.

SEPARATION OF WATER MAIN AND SEWER CROSSING
SCALE: NTS



NOTES:

1. PREDOMINATELY GRANULAR FILL MATERIAL. MAX. PARTICLE SIZE 4", COMPACT IN MAX. 8" LOOSE LIFTS TO 95% MODIFIED PROCTOR DENSITY USING ONSITE MATERIALS.
2. MIXTURE OF CRUSHED STONE AND GRAVEL, FREE OF SOFT, NONDURABLE PARTICLES, ORGANIC MATERIALS AND ELONGATED PARTICLES. MAX. PARTICLE SIZE ¾", COMPACT IN MAX. 6" LOOSE LIFTS.
3. WHEN IN LEDGE, USE AASHTO NO. 67 OR EQUAL PROCESSED SAND AND GRAVEL FREE OF DEBRIS, CLAY LUMPS, ORGANIC, OR OTHER DELETERIOUS MATERIAL. COMPACT TO THE SPRINGLINE IN MAX. 6" LOOSE LIFTS.
4. TRENCHING SHALL BE IMPLEMENTED IN ACCORDANCE WITH O.S.H.A. STANDARDS.
5. THIS DETAIL APPLIES TO GRAVITY PIPES AND FORCEMAINS (FOR THIS PROJECT ONLY).

SEWER PIPE TRENCH
SCALE: NTS

NOTES:

1. SIMILAR INSTALLATION FOR CURB BOX OR SERVICE LINE.
2. REFER TO PLAN FOR SIZE AND LOCATION.
3. VALVES TO BE MUELLER.

VALVE BOX
SCALE: NTS

WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

Date	Description	No.
	REVISIONS	

STATE OF NEW YORK RICHARD BURROW 082168 REGISTERED PROFESSIONAL ENGINEER

SIGNATURE OCT 02 2019 DATE SIGNED

RICHARD BURROW
PROFESSIONAL ENGINEER NY Lic. No. 082168

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project	PROPOSED DISTRIBUTION FACILITY PROJECT SECTION 114, BLOCK 1, LOT 2.3 TOWN OF CLAY ONONDAGA COUNTY NEW YORK
Drawing Title	SITE CONSTRUCTION DETAILS (4 OF 4)
Project No.	100796101
Date	10/02/2019
Drawn By	JRS
Checked By	TLK
Drawing No.	CS504

LANGAN PROJECT NO. 100796101

©2019 Langan

Filename: \\langan.com\data\PAR\data1\100796101\Project Data\CAD\01Sheet Files\Site Plan Approval\100796101-CS501-2101.dwg Date: 10/2/2019 Time: 18:05 User: jkarabia Style Table: Langan.stb Layout: CS504