

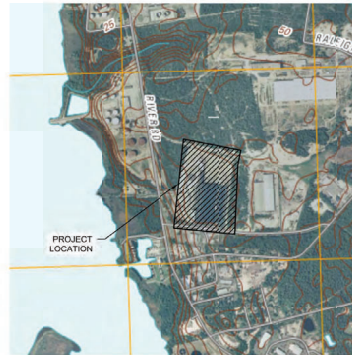
PROPOSED INDUSTRIAL SIDETRACK & STORMWATER MANAGEMENT IMPROVEMENTS

NATIONAL GYPSUM COMPANY
 NEW HANOVER COUNTY
 838 SUNNYVALE DRIVE
 WILMINGTON, NC

CIVIL ENGINEER
 URBAN ENGINEERS, INC.
 530 WALNUT STREET
 PHILADELPHIA, PA 19106
 PHONE: 215-922-8080



LOCATION MAP
 SCALE: 1" = 1000'



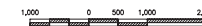
USGS MAP
 SCALE: 1" = 1000'

Sheet Number	Sheet Title
G-000	COVER SHEET
G-100	GENERAL NOTES & LEGENDS
C-000	EXISTING CONDITIONS PLAN
C-001	TREE INVENTORY PLAN
C-200	EROSION & SEDIMENT CONTROL PLAN
C-201	EROSION & SEDIMENT CONTROL - NOTES 1
C-202	EROSION & SEDIMENT CONTROL - NOTES 2
C-203	EROSION & SEDIMENT CONTROL - DETAILS 1
C-204	EROSION & SEDIMENT CONTROL - DETAILS 2
C-205	DEMOLITION PLAN - OVERALL
C-206	TREE PROTECTION AND REMOVAL PLAN
C-400	SITE PLAN - OVERALL
C-401	SITE PLAN - ENLARGEMENT 1
C-402	SITE PLAN - ENLARGEMENT 2
C-410	GRADING PLAN - OVERALL
C-411	RAIL SPUR AND BASIN GRADING PLAN
C-412	ENDWALL GRADING DETAIL
C-600	UTILITY PLAN - OVERALL
C-601	UTILITY PROFILE - STORM
C-602	EMERGENCY OUTFALL UTILITY PROFILE
C-600	CONSTRUCTION DETAILS - 1
C-601	CONSTRUCTION DETAILS - 2
C-701	WB-62 TRUCK TURNING MANEUVER PLAN
C-702	WB-62 TRUCK TURNING MANEUVER PLAN
C-703	WB-62 TRUCK TURNING MANEUVER PLAN
C-800	EXISTING DRAINAGE AREA PLAN
C-801	PROPOSED DRAINAGE AREA PLAN



NATIONAL GYPSUM
RAIL SPUR IMPROVEMENTS
 APPROVED 6/23/20
 SWP 2018041R1
 BC, RC, CW, MB, BM

DATE: 6/23/2020 RESPONSE TO: 24200 NCE COMMENTS
 DATE: 6/23/2020 RESPONSE TO: 12219 NCE COMMENTS
 LOCATION: 838 SUNNYVALE DR., WILMINGTON, NC



GRAPHIC SCALE
 1 inch = 1,000 feet



PROJECT: WILMINGTON WALLBOARD PLANT
 PROPOSED INDUSTRIAL SIDETRACK &
 STORMWATER MANAGEMENT IMPROVEMENTS
 COVER SHEET

DATE: 06/23/2020
 DRAWING NUMBER: G-000

GENERAL NOTES

- EXISTING SITE INFORMATION:
 - SITE ADDRESS: 838 SUNNYVALE DRIVE
WILMINGTON, NC 28412
PARCEL ID: 060400002000
 - OWNER: NATIONAL GYPSUM COMPANY (NGC)
3001 REEFERD ROAD
CHARLOTTE, NC 28211
 - DESIGNER: URBAN ENGINEERS, INC.
530 WALNUT STREET
7TH FLOOR
PHILADELPHIA, PA 19106
 - ZONED: T-INDUSTRIAL
 - EASER/WATERED: DRAINS TO NE CAPE FEAR
 - SITE DATA: NUMBER OF BUILDINGS: 1
NUMBER OF FLOORS: 1
ROOF AREA: 235,015 SF
TRACT PROPERTY: 28,975 AC.
CAMA LAND USE: URBAN
 - PROPOSED ADDITIONS: RAIL SPUR: 28,927 SF
STUCCO BUILDING ADDITION: 3,150 SF
RAIL SPUR ACCESS DRIVE: 11,200 SF
EXPANDED ASPHALT PAVING: 26,744 SF
TOTAL: 68,021 SF
- PROPOSED PROJECT WILL NOT TIE INTO EXISTING PUBLIC UTILITIES: WATER, STORMWATER, FIRE PROTECTION OR SANITARY SEWER SYSTEM
- NO NEW WATER/SEWER SERVICES ARE PROPOSED WITH THIS DEVELOPMENT
- ACCORDING TO THE FLOOD INSURANCE MAPS FOR WILMINGTON NORTH CAROLINA PREPARED BY THE NATIONAL FLOOD INSURANCE PROGRAM, THE PROJECT FALLS WITHIN THE X FLOOD ZONE AS SHOWN ON MAP NUMBER 3702311500L, REVISED DATE 8/26/2019. FLOOD INSURANCE MAPS ARE MADE AVAILABLE BY FEMA.
- DATUM: HORIZONTAL: THE NORTH CAROLINA STATE PLANE COORDINATE SYSTEM, NAD83, BASED ON GNSS OBSERVATIONS MADE DURING THE FIELD SURVEY.
VERTICAL: NAVD 83.
- IF DISCREPANCIES IN OR OMISSIONS FROM THE CONTRACT DOCUMENTS ARE FOUND, NOTIFY THE ENGINEER IN WRITING IMMEDIATELY. NO CONSIDERATION OR ALLOWANCES WILL BE GRANTED FOR ANY ALLEGED MISUNDERSTANDING OF MATERIAL TO BE FURNISHED OR WORK TO BE PERFORMED.
- THE CONTRACTOR SHALL NOTIFY NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY 48 HOURS PRIOR TO ANY EARTH DISTURBANCE ACTIVITIES. THE CONTRACTOR SHALL SCHEDULE AND CONDUCT ALL CONSTRUCTION TO MINIMIZE EROSION.
- APPROVED EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE PROVIDED AND MAINTAINED UNTIL ALL WORK IS COMPLETED. EAS PLANS SHALL BE AVAILABLE ON SITE UNTIL CONSTRUCTION IS COMPLETED. THE CONTRACTOR SHALL CONDUCT OPERATIONS TO COMPLY WITH THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN. IF THE APPROVED PLANS ARE OBTAINED BY THE CONTRACTOR WITHOUT OBTAINING APPROVAL OF ALTERNATIVE EROSION AND SEDIMENTATION CONTROLS BY THE APPROPRIATE REGULATORY AGENCY, AT NO TIME SHALL WATER CONTAINING SEDIMENTS OR POLLUTANTS BE DISCHARGED INTO DRAINAGE DITCHES, STORMWATER PIPES OR WATERCOURSES.
- CLEAR AND GRUB ALL VEGETATION AND OTHER MISCELLANEOUS ITEMS WITHIN THE LIMITS OF WORK PRIOR TO ANY EARTHMOVING ACTIVITIES.
- ALL STRUCTURES ARE DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER CONSTRUCTION WORK IS FULLY COMPLETE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE CONSTRUCTION PROCEDURES AND SEQUENCE AND TO ENSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENTS PARTS DURING ERECTION; THIS INCLUDES THE ADDITION OF WHATEVER SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIE DOWNS WHICH MAY BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTORS PROPERTY AND BE REMOVED FROM THE SITE AFTER COMPLETION OF PROJECT.

CONSTRUCTION NOTES

- ALL WORK SHALL BE PERFORMED IN CONFORMANCE WITH APPLICABLE CODES.
- THE CONTRACTOR SHALL BE GOVERNED BY THE REQUIREMENTS OF THE FOLLOWING GENESSEE & WYOMING RAILROAD REGULATIONS WHEN PERFORMING WORK ON OR ADJACENT TO THE WILMINGTON TERMINAL RAILROAD RIGHT OF WAY OR TRACKS.
 - GENESSEE & WYOMING, INC. ROADWAY WORKER PROTECTION & MOWF RULES (CURRENT VERSION).
 - GENESSEE & WYOMING, INC. CONTRACTOR SAFETY RULES (CURRENT VERSION).
 - GENESSEE & WYOMING, INC. ENGINEERING SAFETY RULES (CURRENT VERSION).
 - CONTACT TRAFFIC ENGINEERING AT 910-341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT-OF-WAY.
- RAILROAD TRAFFIC SHALL BE MAINTAINED AT ALL TIMES AND THE CONTRACTOR SHALL CONDUCT ALL OF HIS OPERATIONS ON OR ADJACENT TO THE WILMINGTON TERMINAL RAILROAD RIGHT-OF-WAY FULLY WITHIN THE RULES, REGULATIONS, AND REQUIREMENTS OF THE WILMINGTON TERMINAL RAILROAD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUAINTING HIMSELF WITH ANY SUCH REQUIREMENTS AS THE RAILROAD MAY DEMAND.
- ALL WORK SHALL BE EXECUTED IN COMPLIANCE WITH THE HIGHEST PROFESSIONAL STANDARDS OF WORKMANSHIP OF THE VARIOUS TRADES PERFORMING WORK UNDER THIS CONTRACT.
- CONTRACTOR SHALL FIELD VERIFY THE AREA AND CONDITIONS OF UTILITIES, SUPPORTS, ETC., AND SHALL IMMEDIATELY INFORM THE ENGINEER UPON ANY DISCOVERY OF ITEMS THAT ARE CONSIDERED UNSURE OR IN NEED OF ATTENTION PRIOR TO THE COMMENCEMENT OF WORK.
- EXTREME CARE SHALL BE TAKEN NOT TO DAMAGE PORTIONS OF THE EXISTING FACILITY WHILE PERFORMING THE REQUIRED WORK.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY IN THE FIELD ALL DIMENSIONS OF EXISTING STRUCTURES AFFECTING NEW CONSTRUCTION.
- ANY PORTION OF EXISTING WORK WHICH IS REMOVED, DISTURBED, OR DAMAGED IN THE COURSE OF INSTALLATION OF NEW WORK SHALL BE RESTORED IN COMPLIANCE WITH ALL APPLICABLE CODES AND STANDARDS AT NO EXPENSE TO NATIONAL GYPSUM COMPANY
- THE CONTRACTOR IS SUBJECT TO THE 2014 NORTH CAROLINA GENERAL STATUTES CHAPTER 87 - CONTRACTORS, ARTICLE 8A - "UNDERGROUND UTILITY SAFETY AND DAMAGE PREVENTION ACT", AND IS DIRECTED TO COMPLY WITH IT.
- THE CONTRACTOR SHALL INITIATE A UTILITY LOCATION REQUEST BY CALLING NC811 BETWEEN THE HOURS OF 7 AM AND 7 PM MONDAY THROUGH FRIDAY BY DIALING 811 OR 1-800-632-4949 AT LEAST FOUR (4) WORKING DAYS IN ADVANCE OF ANY EXCAVATION OR EARTH DISTURBANCE ACTIVITY.
- THE CONTRACTOR, FOR THE PURPOSE OF SAFETY, SHALL NOTIFY THE UTILITY COMPANIES INVOLVED IF ANY OF THEIR UTILITIES ARE EXPOSED AND/OR UNDERMINED DURING THE COURSE OF CONSTRUCTION.
- THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS IN EXCAVATIONS AND SHALL HAND EXCAVATE AS NEEDED TO PROTECT UNDERGROUND STRUCTURES AND UTILITIES.

CONSTRUCTION NOTES CONTINUED

- THE CONTRACTOR SHALL PLATE OVER TRENCHES AS NECESSARY FOR MAINTAINING PEDESTRIAN AND VEHICULAR TRAFFIC DURING UNDERGROUND UTILITY WORK AND SITE REMOVALS.
- UNLESS OTHERWISE NOTED ON THE PLANS, ADJUST ALL UTILITY CASTINGS (VALVE BOXES, FRAMES AND COVERS) TO BE FLUSH WITH FINISHED GRADE.
- UTILITIES SHALL BE MAINTAINED IN ACTIVE OPERATION AT ALL TIMES. PROVIDE BYPASS PIPING AND PUMPING WHERE REQUIRED. ALL NEW UTILITY SYSTEMS SHALL BE OPERATIONAL BEFORE ANY EXISTING SYSTEMS ARE ABANDONED OR RELIEVED IF EXISTING UTILITIES ARE TAKEN OUT OF SERVICE FOR CONNECTIONS, THE TIMING SHALL BE APPROVED BY THE ENGINEER.
- REMOVE ALL UNSUITABLE EXCAVATED MATERIALS, AND LEGALLY DISPOSE OF OFF-SITE. UPON COMPLETION OF WORK, REMOVE ALL DEBRIS, EQUIPMENT AND UNUSED MATERIALS FROM NATIONAL GYPSUM COMPANY PROPERTY.
- ALL CATCH BASINS, AND OTHER DRAINAGE STRUCTURES IN THE PROJECT AREA SHALL BE MAINTAINED IN AN OPERABLE CONDITION INCLUDING FLOW WITHOUT BACKUP AT ALL TIMES.
- ALL AREAS DISTURBED/DAMAGED BY THE CONTRACTOR WITHOUT AUTHORIZATION BY THE ENGINEER SHALL BE RESTORED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.

CITY OF WILMINGTON REQUIRED NOTES

TREE PROTECTION NOTES

- PRIOR TO ANY CLEARING, GRADING, OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVE OF TREES. CONSTRUCTION TOOLS, MATERIALS OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.

LANDSCAPING NOTES

- NO TREE MITIGATION IS PROPOSED WITH THIS DEVELOPMENT. EXISTING TREES TO BE REMOVED ARE IN DIRECT CONFLICT WITH THE MAXIMUM RAIL GRADE & CURVE REQUIREMENTS AND STORMWATER MANAGEMENT FEATURES AND ARE THEREFORE EXEMPT FROM MITIGATION AS DESCRIBED IN SECTION 18-61(b-c) OF ARTICLE 8 OF THE WILMINGTON, NC CODE OF ORDINANCES.
- NO ADDITIONAL TREES AS A RESULT IN EXPANSION UNDER SECTION 18-610, TABLE III ARE PROPOSED. PROPOSED ASPHALT EXPANSION IS TO REPLACE TRAILER PARKING LOSE FROM THE RAIL SPUR ADDITION AND NOT FOR ADDITIONAL VEHICULAR USE.
- ALL PROPOSED VEGETATION WITHIN SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30'-10'.

UTILITY NOTES

- CAUTION: HIGH VOLTAGE LINES MAY EXIST WITHIN THE PROJECT LIMITS. ALL WORK IS TO BE PERFORMED IN CONFORMITY WITH ALL STATE, FEDERAL, UTILITY AND CONTRACT REQUIREMENTS. MEANS METHODS, CHOICE OF EQUIPMENT, SEQUENCING OF AND SAFETY PRACTICES USED OR NOT USED, IN, ON OR AROUND HIGH VOLTAGE LINES OR OTHER UTILITY STRUCTURES, AS THESE ITEMS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR PHYSICALLY PERFORMING OR CONTROLLING THE PERFORMANCE OF THE WORK. EXCEPT WHERE ELECTRICAL DISTRIBUTION AND TRANSMISSION LINES HAVE BEEN DE-ENERGIZED AND VISIBLY DE-ENERGIZED GROUND AT THE POINT OF WORK, ASSUME THAT ALL SUCH LINES ARE ENERGIZED AND CONFORM OPERATIONS TO INTER ALIA, TITLE 29 OF THE CODE OF FEDERAL REGULATIONS, SECTION 1926.550(a)(19).
- EXAMINE ALL DRAWINGS RELATED TO PROPOSED WORK OF ALL TRADES AND BECOME THOROUGHLY FAMILIAR AND FULLY INFORMED AS TO THE EXTENT AND CHARACTER OF THE WORK REQUIRED AND ITS RELATIONSHIP TO ALL OTHER WORK ON THE PROJECT. IF DISCREPANCIES IN OR OMISSIONS FROM THE CONTRACT DOCUMENTS ARE FOUND, NOTIFY THE ENGINEER IN WRITING IMMEDIATELY. NO CONSIDERATION OR ALLOWANCES WILL BE GRANTED FOR ANY ALLEGED MISUNDERSTANDING OF MATERIAL TO BE FURNISHED OR WORK TO BE PERFORMED.
- THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING UTILITIES AND/OR TEMPORARILY RELOCATE AND PROPERLY SUPPORT EXISTING UTILITIES AS NECESSARY.
- THE CONTRACTOR SHALL RESTORE INTERRUPTED OR DAMAGED UTILITY SERVICES 24 HOURS PER DAY UNTIL UTILITY SERVICES HAVE BEEN COMPLETELY RESTORED OR TEMPORARY SERVICES HAVE BEEN DETERMINED SUFFICIENT BY THE ENGINEER.
- THE CONTRACTOR SHALL OBTAIN FROM THE APPROPRIATE UTILITY COMPANY OR CITY DEPARTMENT, VERIFICATION OF THE CURRENT STATUS OF UTILITIES AND STRUCTURES SHOWN ON THE CONTRACT DOCUMENTS PRIOR TO WORKING ON OR NEAR SUCH STRUCTURES AND UTILITIES.

SOILS DATA

- THE SOIL INFORMATION FOR THIS PROJECT WAS OBTAINED FROM THE U.S. DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE WEB SOIL SURVEY.
- SOIL SURVEY STAFF, NATURAL RESOURCES CONSERVATION SERVICE, UNITED STATES DEPARTMENT OF AGRICULTURE, WEB SOIL SURVEY, AVAILABLE ONLINE AT <http://websoilsurvey.nrcs.usda.gov/accessed/06/11/2019>.
- THE SOIL SURVEY INDICATES THAT THE SOILS ENCOMPASSING THE PROJECT AREA ARE SAND. THE SOILS AND FOUNDATION MATERIALS ARE HIGHLY VARIABLE.

WATER AND SEWER CAPACITY

WATER: 3,000 GPD (CURRENT USE)
WATER: 0 GPD (PROPOSED ADDITIONAL USE)
SEWER: 3,000 GPD (CURRENT USE)
SEWER: 0 GPD (PROPOSED ADDITIONAL USE)

EXISTING WATER AND SEWER CONNECTIONS

- FIRE WATER LATERAL CONNECTS TO AN EXISTING 6" WATER LINE WITHIN SUNNYVALE R.O.W. OWNED BY CAPE FEAR PUBLIC UTILITY AUTHORITY.
- 12" RECP LATERAL CONNECTS TO EXISTING SANITARY SEWER LINE WITHIN SUNNYVALE R.O.W. OWNED BY CAPE FEAR PUBLIC UTILITY AUTHORITY.

STORMWATER MANAGEMENT NOTES

- THE CONTRACTOR SHALL PERFORM ANY REMEDIATION OR REPAIRS TO EXISTING INFRASTRUCTURE THAT IS DAMAGED BY CONSTRUCTION ACTIVITIES, AT NO ADDITIONAL COST TO THE CITY.
- DISTURBANCE WITHIN THE PROPERTY'S IS 289,238 SF. THIS PROJECT WILL REQUIRE A NPDES PERMIT.
- PROJECT DRAINS TO THE NE CAPE FEAR.

UTILITIES CONTACT

COMPANY: CAPE FEAR PUBLIC UTILITY AUTHORITY
ADDRESS: 235 GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403
CONTACT: FIELD - JIM TAYSON
910-430-2343
FIELD - KATHY WILLIS
910-367-4698
DAMAGE - SHIANE FORD
910-323-6571

COMPANY: DUKE ENERGY
ADDRESS: 1451 MILITARY CUTOFF ROAD
WILMINGTON, NC 28403
CONTACT: FIELD - DISPATCH
800-778-2140
DAMAGE - DUKE ENERGY REPRESENTATIVE
800-452-7777

COMPANY: SOUTH WILMINGTON PIPELINE/CO
CONTACT: FIELD - ARDEN HORELL
910-791-0291
DAMAGE - ARDEN HORELL
910-200-9002

COMPANY: AT&T (DISTRIBUTION)
CONTACT: FIELD 1 - DISPATCH
800-778-6140
FIELD 2 - DINO FARRUGGIO
800-468-6246
DAMAGE ATT REPRESENTATIVE
877-737-2478

COMPANY: TIME WARNER CABLE-CHARTER
ADDRESS: 3291 SCIENTIFIC PARK DR
WILMINGTON, NC 28405
CONTACT: FIELD - DISPATCH
800-778-6140
DAMAGE - CAROLINAS REGIONAL OPERATIONS
855-272-2992

COMPANY: USDC LOCATING SERVICES, INC.
ADDRESS: WITKOWSKI DRIVE ONLY LOCATION
CONTACT: FIELD - LARRY JOHNSTON
910-468-5397
DAMAGE - CUSTOMER SERVICE CENTER
800-752-7504

COMPANY: REDMONT NATURAL GAS COMPANY
ADDRESS: 1321 SOUTH 10TH ST, WILMINGTON, NC 28401
CONTACT: FIELD - LARRY JOHNSTON
910-468-5397
DAMAGE - CUSTOMER SERVICE CENTER
800-752-7504

CAUTION: HIGH VOLTAGE LINES MAY EXIST WITHIN THE PROJECT LIMITS. ALL WORK IS TO BE PERFORMED IN CONFORMITY WITH ALL STATE, FEDERAL, UTILITY AND CONTRACT REQUIREMENTS. MEANS METHODS, CHOICE OF EQUIPMENT, SEQUENCING OF AND SAFETY PRACTICES USED OR NOT USED, IN, ON OR AROUND HIGH VOLTAGE LINES OR OTHER UTILITY STRUCTURES, AS THESE ITEMS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR PHYSICALLY PERFORMING OR CONTROLLING THE PERFORMANCE OF THE WORK. EXCEPT WHERE ELECTRICAL DISTRIBUTION AND TRANSMISSION LINES HAVE BEEN DE-ENERGIZED AND VISIBLY DE-ENERGIZED GROUND AT THE POINT OF WORK, ASSUME THAT ALL SUCH LINES ARE ENERGIZED AND CONFORM OPERATIONS TO INTER ALIA, TITLE 29 OF THE CODE OF FEDERAL REGULATIONS, SECTION 1926.550(a)(19).

EXAMINE ALL DRAWINGS RELATED TO PROPOSED WORK OF ALL TRADES AND BECOME THOROUGHLY FAMILIAR AND FULLY INFORMED AS TO THE EXTENT AND CHARACTER OF THE WORK REQUIRED AND ITS RELATIONSHIP TO ALL OTHER WORK ON THE PROJECT. IF DISCREPANCIES IN OR OMISSIONS FROM THE CONTRACT DOCUMENTS ARE FOUND, NOTIFY THE ENGINEER IN WRITING IMMEDIATELY. NO CONSIDERATION OR ALLOWANCES WILL BE GRANTED FOR ANY ALLEGED MISUNDERSTANDING OF MATERIAL TO BE FURNISHED OR WORK TO BE PERFORMED.

THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING UTILITIES AND/OR TEMPORARILY RELOCATE AND PROPERLY SUPPORT EXISTING UTILITIES AS NECESSARY.

THE CONTRACTOR SHALL RESTORE INTERRUPTED OR DAMAGED UTILITY SERVICES 24 HOURS PER DAY UNTIL UTILITY SERVICES HAVE BEEN COMPLETELY RESTORED OR TEMPORARY SERVICES HAVE BEEN DETERMINED SUFFICIENT BY THE ENGINEER.

THE CONTRACTOR SHALL OBTAIN FROM THE APPROPRIATE UTILITY COMPANY OR CITY DEPARTMENT, VERIFICATION OF THE CURRENT STATUS OF UTILITIES AND STRUCTURES SHOWN ON THE CONTRACT DOCUMENTS PRIOR TO WORKING ON OR NEAR SUCH STRUCTURES AND UTILITIES.

CAUTION: HIGH VOLTAGE LINES MAY EXIST WITHIN THE PROJECT LIMITS. ALL WORK IS TO BE PERFORMED IN CONFORMITY WITH ALL STATE, FEDERAL, UTILITY AND CONTRACT REQUIREMENTS. MEANS METHODS, CHOICE OF EQUIPMENT, SEQUENCING OF AND SAFETY PRACTICES USED OR NOT USED, IN, ON OR AROUND HIGH VOLTAGE LINES OR OTHER UTILITY STRUCTURES, AS THESE ITEMS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR PHYSICALLY PERFORMING OR CONTROLLING THE PERFORMANCE OF THE WORK. EXCEPT WHERE ELECTRICAL DISTRIBUTION AND TRANSMISSION LINES HAVE BEEN DE-ENERGIZED AND VISIBLY DE-ENERGIZED GROUND AT THE POINT OF WORK, ASSUME THAT ALL SUCH LINES ARE ENERGIZED AND CONFORM OPERATIONS TO INTER ALIA, TITLE 29 OF THE CODE OF FEDERAL REGULATIONS, SECTION 1926.550(a)(19).

EXAMINE ALL DRAWINGS RELATED TO PROPOSED WORK OF ALL TRADES AND BECOME THOROUGHLY FAMILIAR AND FULLY INFORMED AS TO THE EXTENT AND CHARACTER OF THE WORK REQUIRED AND ITS RELATIONSHIP TO ALL OTHER WORK ON THE PROJECT. IF DISCREPANCIES IN OR OMISSIONS FROM THE CONTRACT DOCUMENTS ARE FOUND, NOTIFY THE ENGINEER IN WRITING IMMEDIATELY. NO CONSIDERATION OR ALLOWANCES WILL BE GRANTED FOR ANY ALLEGED MISUNDERSTANDING OF MATERIAL TO BE FURNISHED OR WORK TO BE PERFORMED.

THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING UTILITIES AND/OR TEMPORARILY RELOCATE AND PROPERLY SUPPORT EXISTING UTILITIES AS NECESSARY.

THE CONTRACTOR SHALL RESTORE INTERRUPTED OR DAMAGED UTILITY SERVICES 24 HOURS PER DAY UNTIL UTILITY SERVICES HAVE BEEN COMPLETELY RESTORED OR TEMPORARY SERVICES HAVE BEEN DETERMINED SUFFICIENT BY THE ENGINEER.

THE CONTRACTOR SHALL OBTAIN FROM THE APPROPRIATE UTILITY COMPANY OR CITY DEPARTMENT, VERIFICATION OF THE CURRENT STATUS OF UTILITIES AND STRUCTURES SHOWN ON THE CONTRACT DOCUMENTS PRIOR TO WORKING ON OR NEAR SUCH STRUCTURES AND UTILITIES.

CAUTION: HIGH VOLTAGE LINES MAY EXIST WITHIN THE PROJECT LIMITS. ALL WORK IS TO BE PERFORMED IN CONFORMITY WITH ALL STATE, FEDERAL, UTILITY AND CONTRACT REQUIREMENTS. MEANS METHODS, CHOICE OF EQUIPMENT, SEQUENCING OF AND SAFETY PRACTICES USED OR NOT USED, IN, ON OR AROUND HIGH VOLTAGE LINES OR OTHER UTILITY STRUCTURES, AS THESE ITEMS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR PHYSICALLY PERFORMING OR CONTROLLING THE PERFORMANCE OF THE WORK. EXCEPT WHERE ELECTRICAL DISTRIBUTION AND TRANSMISSION LINES HAVE BEEN DE-ENERGIZED AND VISIBLY DE-ENERGIZED GROUND AT THE POINT OF WORK, ASSUME THAT ALL SUCH LINES ARE ENERGIZED AND CONFORM OPERATIONS TO INTER ALIA, TITLE 29 OF THE CODE OF FEDERAL REGULATIONS, SECTION 1926.550(a)(19).

EXAMINE ALL DRAWINGS RELATED TO PROPOSED WORK OF ALL TRADES AND BECOME THOROUGHLY FAMILIAR AND FULLY INFORMED AS TO THE EXTENT AND CHARACTER OF THE WORK REQUIRED AND ITS RELATIONSHIP TO ALL OTHER WORK ON THE PROJECT. IF DISCREPANCIES IN OR OMISSIONS FROM THE CONTRACT DOCUMENTS ARE FOUND, NOTIFY THE ENGINEER IN WRITING IMMEDIATELY. NO CONSIDERATION OR ALLOWANCES WILL BE GRANTED FOR ANY ALLEGED MISUNDERSTANDING OF MATERIAL TO BE FURNISHED OR WORK TO BE PERFORMED.

THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING UTILITIES AND/OR TEMPORARILY RELOCATE AND PROPERLY SUPPORT EXISTING UTILITIES AS NECESSARY.

THE CONTRACTOR SHALL RESTORE INTERRUPTED OR DAMAGED UTILITY SERVICES 24 HOURS PER DAY UNTIL UTILITY SERVICES HAVE BEEN COMPLETELY RESTORED OR TEMPORARY SERVICES HAVE BEEN DETERMINED SUFFICIENT BY THE ENGINEER.

THE CONTRACTOR SHALL OBTAIN FROM THE APPROPRIATE UTILITY COMPANY OR CITY DEPARTMENT, VERIFICATION OF THE CURRENT STATUS OF UTILITIES AND STRUCTURES SHOWN ON THE CONTRACT DOCUMENTS PRIOR TO WORKING ON OR NEAR SUCH STRUCTURES AND UTILITIES.

EXISTING LEGEND

STANDARD ABBREVIATIONS	STANDARD SYMBOLS
AC AIR CONDITIONER	OH OVERHEAD TRAFFIC SIGNAL LIGHT
BE BONE HOLE	PP POWER POLE
BSL BUILDING SETBACK LINE	QW QUIET WIRE
CAF CORRUGATED METAL PIPE	PP POWER LINE
CD CONCRETE DRAINAGE DRAIN	LP LIGHT POLE
CC SANITARY CLEANOUT	ET ELECTRIC TRANSFORMER
CCM COMMUNICATION PRECAST	
CRIMPED TOP PIPE	
CTP DROP PILE	
DF DUCTILE IRON PIPE	
FD FIBRE	
FDN FIBRE DUCTILE IRON CATCH BASIN	
FDN FOUND	
FM GAS METER	
INW INLET	
JE JUNCTION BOX	
MP MANHOLE	
OCSS OUTLET CONTROL STRUCTURE	
OPN OPEN TOP PIPE	
PM POWER METER	
PKS PK NAIL SET	
PCB POINT OF COMMENCEMENT	
PCP REINFORCED CONCRETE PIPE	
PN REINFORCING BAR	
RBS 8"/8" RB SET CAPPED LSF 621	
RSS RAILROAD SLOTTED	
SS SANITARY SEWER	
SWB SWIRL AND CATCH BASIN	
TRANS ELECTRIC TRANSFORMER	

EROSION & SEDIMENT CONTROL LEGEND

--- LIMIT OF DISTURBANCE	--- TREE PROTECTION FENCE
--- ENVIRONMENTAL FEATURE	--- REMOVE TREE
--- 12" CURLEX SEDIMENT LOG	--- LIMIT OF DISTURBANCE
--- SAWCUT LINE	--- ASPHALT REMOVAL
--- REMOVE & SALVAGE FENCE	--- ASPHALT REMOVAL
--- PROTECT FENCE	--- ASPHALT REMOVAL
--- SITE DELIMITATION	--- ASPHALT REMOVAL
--- ROCK CONSTRUCTION	--- ASPHALT REMOVAL
--- REMOVE & DEPOSE ASPHALT	--- ASPHALT REMOVAL
--- TEMPORARY/PERMANENT SEEDING AREA	--- ASPHALT REMOVAL
--- RETENTION BASIN AREA	--- ASPHALT REMOVAL
--- PROTECT ASPHALT DRIVE	--- ASPHALT REMOVAL
--- STIPPLE STORAGE AREA	--- ASPHALT REMOVAL
--- INLET PROTECTION	--- ASPHALT REMOVAL
--- UTILITY PROTECTION	--- ASPHALT REMOVAL

DEMOLITION LEGEND

--- TREE PROTECTION FENCE	--- REMOVE TREE
--- LIMIT OF DISTURBANCE	--- ASPHALT REMOVAL
--- ASPHALT REMOVAL	--- ASPHALT REMOVAL

GRADING LEGEND

40 MAJOR CONTOUR
41 MINOR CONTOUR
-37.86 SPOT ELEVATION
2% SLOPES

SITE LEGEND

--- PROPOSED ASPHALT PAVING
--- 6" HIGH CHAIN LINK FENCE
--- RETENTION BASIN AREA
--- ADA ACCESSIBLE ROUTE
--- PROPOSED LAWN AREA
--- RAIL SPUR
--- BOLLARDS
--- STRIPING
--- SKEE BACK

CURRENT IMPERVIOUS AREA CALCULATIONS

CURRENTLY UNDER ROOF: 235,015 SF
PAVED PARKING/ROADWAYS: 269,200 SF
TOTAL: 504,215 SF
42.98% OF TOTAL AREA

PROPOSED IMPERVIOUS AREA CALCULATIONS

CURRENTLY UNDER ROOF: 235,015 SF
STUCCO BUILDING ADDITION: 3,150 SF
PAVED PARKING/ROADWAYS: 258,687 SF
RAIL SPUR: 26,927 SF
RAIL SPUR ACCESS DRIVE: 11,200 SF
EXPANDED ASPHALT PAVING: 26,744 SF
TOTAL: 566,550 SF
47.88% OF TOTAL AREA

OFF STREET PARKING

- PER WILMINGTON ZONING CODE SECTION 18.528 (E)

1:15 PARKING SPACES PER EMPLOYEE ON THE SHIFT OF THE AVERAGE GREATEST EMPLOYMENT
MINIMUM REQUIRED = 20 BASED ON LARGEST SHIFT PRODUCTION

1ST SHIFT (DAYTIME) = 30 EMPLOYEES
2ND SHIFT = 15 EMPLOYEES
3RD SHIFT = 15 EMPLOYEES

SITE PARKING:
78 VEHICULAR PARKING SPACES (INCLUDES 4 ADA SPACES)
33 TRACTOR TRAILER PARKING SPACES

NATIONAL GYPSUM RAIL SPUR IMPROVEMENTS

APPROVED 6/23/20
SWP 2018041R1
BC, RC, CW, MB, BM

838 SUNNYVALE DR., WILMINGTON, NC

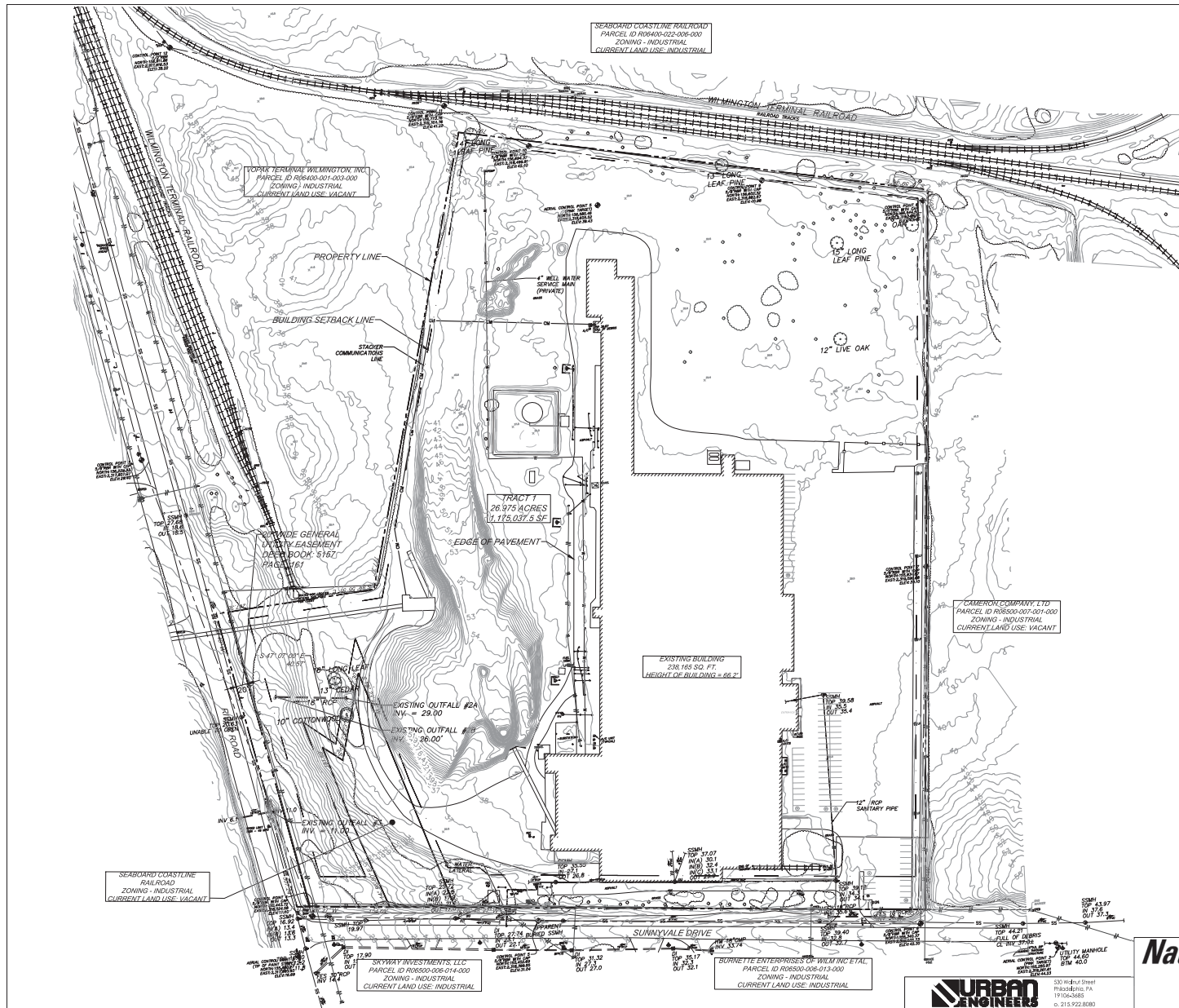
THE WILMINGTON WALLBOARD PLANT
PROPOSED INDUSTRIAL SIDE TRACK &
STORMWATER MANAGEMENT IMPROVEMENTS
GENERAL NOTES & LEGENDS

Date: _____ Permit #: _____
Signature: _____

7/1/2020 10:00 AM
Public Services & Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
REV: 01 DATE: 06/23/2020
REV: 02 DATE: 06/23/2020

DRAWING NUMBER: G-100

530 Walnut Street
Philadelphia, PA
19106-3628
P: 215-922-8080



EXISTING LEGEND	
STANDARD ABBREVIATIONS	STANDARD SYMBOLS
AC AIR CONDITIONER	○ OVERHEAD TRAFFIC SIGNAL LIGHT
BL BUILDING SETBACK LINE	— POWER POLE
BU BURR HOLE	— OUT WIRE
CM CORRUGATED METAL PIPE	— POWER LINE
CMF CONCRETE MONUMENT FND	— LIGHT POLE
CD SANITARY CLEARDIRT	⊠ ELECTRIC TRANSFORMER
CFE COMBINATION FEDESTAL	⊠ WATER VAULT
CIP CRIMPED TOP PIPE	⊠ GAS VALVE
DI DRAIN INLET	⊠ GAS METER
DIP DUCTILE IRON PIPE	⊠ WATER VALVE
DMF DOUBLE WING CATCH BASIN	⊠ WATER METER
FR FENCE	⊠ FIRE HYDRANT
FD FOUNDRY	— UNDERGROUND ELECTRIC LINE
GM GAS METER	— UNDERGROUND GAS LINE
IN INVERT	— UNDERGROUND COMMUNICATION LINE
JN JUNCTION BOX	— UNDERGROUND WATER LINE
MH MANHOLE	— PHOTO POSITION INDICATOR
OC OUTLET CONTROL STRUCTURE	— REGULAR PARKING SPACE COUNT
OIP OPEN TOP PIPE	— HANDICAP PARKING SPACE
PM POWER METER	— TREE POSITION INDICATOR
PK PK NAL SET	— SOFT
POB POINT OF BEGINNING	○ EXISTING TREE LOCATION
RF REINFORCED CONCRETE PIPE	○ BRUSH/SHRUB
RFB REINFORCED CONCRETE BOX	
RBS 5/8\"/>	

Public Services • Engineering Division

 APPROVE STORMWATER MANAGEMENT PLAN

 Date: _____ Permit # _____

 Signed: _____

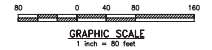
NATIONAL GYPSUM

RAIL SPUR IMPROVEMENTS

 APPROVED 6/23/20

 SWP 2018041R1

 BC, RC, CW, MB, BM



National Gypsum

 COMPANY

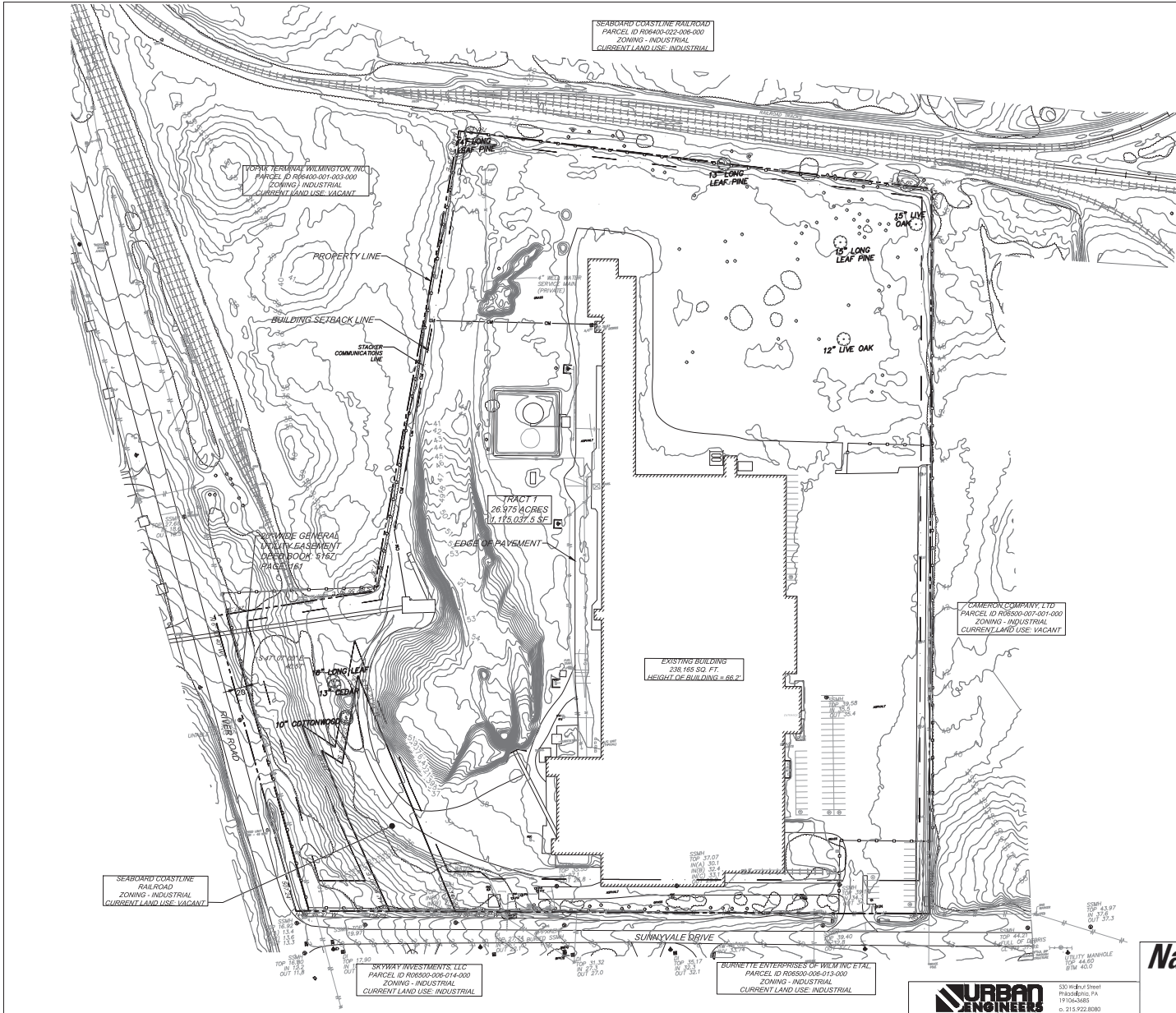
PROJECT	838 SUNNYVALE DR., WILMINGTON, NC
TITLE	WILMINGTON WALLBOARD PLANT PROPOSED INDUSTRIAL SIDE TRACK & STORMWATER MANAGEMENT IMPROVEMENTS EXISTING CONDITIONS PLAN
DATE	06/28/2020
DRAWN BY	DATE
CHECKED BY	DATE
PROJECT NUMBER	C-000

530 Walnut Street

 Philadelphia, PA

 19106-3685

 P: 215-922-8080



EXISTING LEGEND			
AC	AIR CONDITIONER	STANDARD SYMBOLS	OVERHEAD TRAFFIC SIGNAL LIGHT
BL	BURIE HOLE	STANDARD SYMBOLS	POWER POLE
BSL	BUILDING SETBACK LINE	STANDARD SYMBOLS	OUTY WIRE
CL	CLUM HOLE	STANDARD SYMBOLS	POWER LINE
CMF	CORRUGATED METAL PIPE	STANDARD SYMBOLS	LIGHT POLE
CMF	CONCRETE MONUMENT FND	STANDARD SYMBOLS	ELECTRIC TRANSFORMER
CD	SANITARY CLEARDIRT	STANDARD SYMBOLS	WATER VAULT
CFE	COMBINATION FEDESTAL	STANDARD SYMBOLS	GAS VALVE
CTP	COMBIP TOP PIPE	STANDARD SYMBOLS	GAS METER
DF	DRIP PALE	STANDARD SYMBOLS	WATER VALVE
DIP	DUCTILE IRON PIPE	STANDARD SYMBOLS	WATER METER
DWB	DOUBLE WING CATCH BASIN	STANDARD SYMBOLS	FIRE HYDRANT
FD	FRIDGE	STANDARD SYMBOLS	UNDERGROUND ELECTRIC LINE
FND	FOUND	STANDARD SYMBOLS	UNDERGROUND GAS LINE
FM	FRONT METER	STANDARD SYMBOLS	UNDERGROUND COMMUNICATION LINE
INV	INVERT	STANDARD SYMBOLS	UNDERGROUND WATER LINE
J	JUNCTION BOX	STANDARD SYMBOLS	PHOTO POSITION INDICATOR
M	MANHOLE	STANDARD SYMBOLS	REGULAR PARKING SPACE COUNT
OC	OUTLET CONTROL STRUCTURE	STANDARD SYMBOLS	HANDICAP PARKING SPACE
OIP	OPEN TOP PIPE	STANDARD SYMBOLS	TREE POSITION INDICATOR
PM	POWER METER	STANDARD SYMBOLS	SOIL
PCS	PC NAIL SET	STANDARD SYMBOLS	EXISTING TREE LOCATION
POS	POINT OF BEGINNING	STANDARD SYMBOLS	BRUSH/SHRUB
RF	REINFORCED CONCRETE PIPE	STANDARD SYMBOLS	
RFB	RIVER BENCHING BASIN	STANDARD SYMBOLS	
RBS	5/8"RBS SET CAPPED LSF 621	STANDARD SYMBOLS	
RBS	RAILROAD SWITCH	STANDARD SYMBOLS	
SS	SANITARY SEWER	STANDARD SYMBOLS	
SWB	SINGLE WING CATCH BASIN	STANDARD SYMBOLS	
TRANS	ELECTRIC TRANSFORMER	STANDARD SYMBOLS	
---	EXISTING RAIL		
---	EXISTING TIELINE		
---	EXISTING FENCE		

TREE INVENTORY NOTES:

- TREE SURVEY/INVENTORY CONDUCTED FOR PROJECT DISTURBANCE AREA ONLY AND ONLY INCLUDES REGULATED AND SIGNIFICANT TREES AS DEFINED IN SECTION 18-456 (a) and (b).

PROPERTY ADDRESS & PARCEL ID:

838 SUNNYVALE DRIVE
WILMINGTON, NC 28412

PARCEL ID: R06400-001-002-000

PROPERTY OWNER:

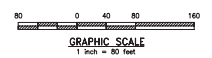
NATIONAL GYPSUM COMPANY
2001 REXFORD ROAD
CHARLOTTE, NC 28211

SITE DATA:

NUMBER OF BUILDINGS: 1
NUMBER OF FLOORS: 1
ROOF AREA: 238,165 SF
TRACT PROPERTY: 26,975 AC.
ZONED: INDUSTRIAL
CAMA LAND USE: URBAN

WILMINGTON
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit #: _____
Signed: _____

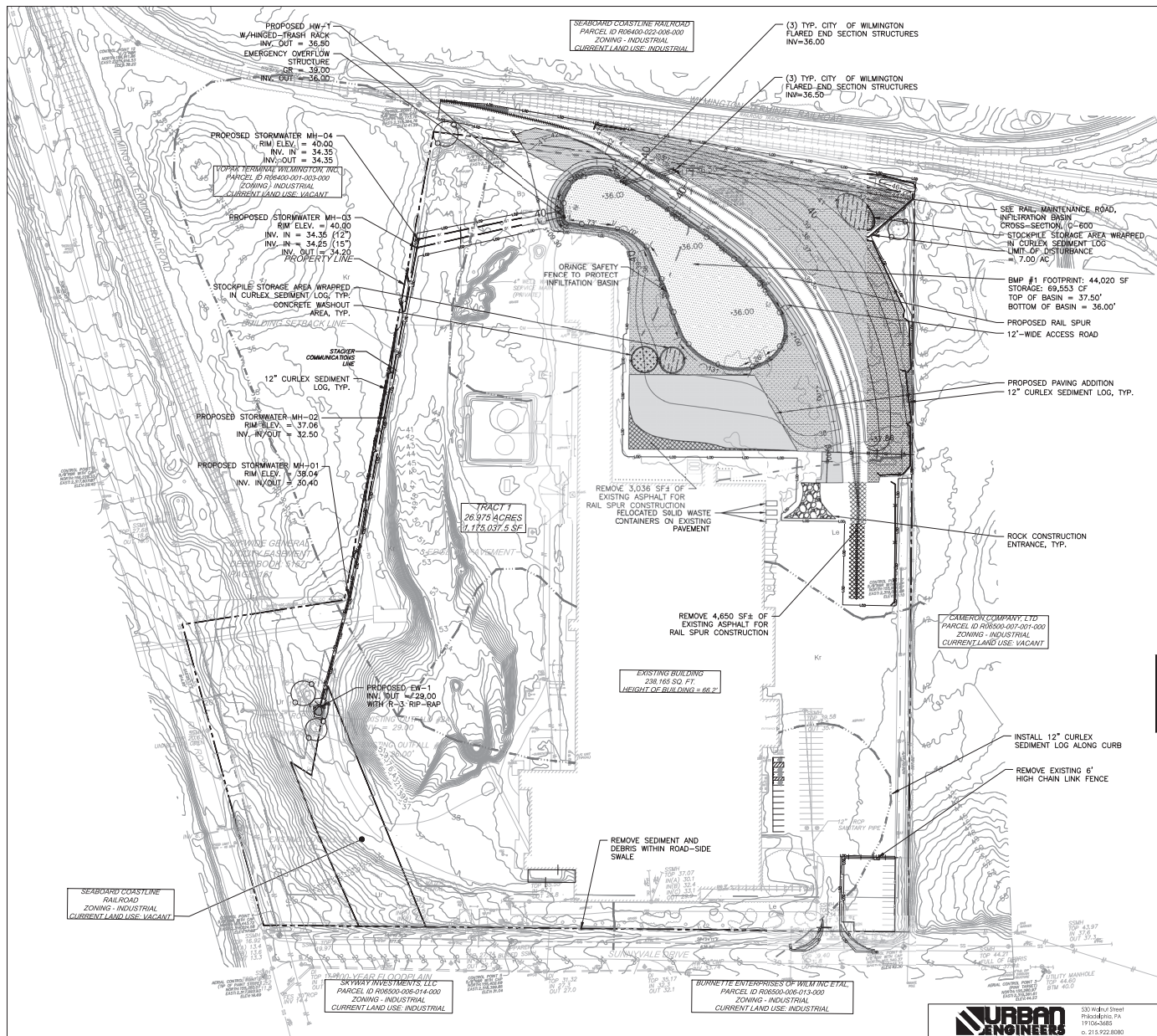
NATIONAL GYPSUM
RAIL SPUR IMPROVEMENTS
APPROVED 6/23/20
SWP 2018041R1
BC, RC, CW, MB, BM



PROJECT	838 SUNNYVALE DR., WILMINGTON, NC
TITLE	WILMINGTON WALLBOARD PLANT PROPOSED INDUSTRIAL SIDE TRACK & STORMWATER MANAGEMENT IMPROVEMENTS TREE INVENTORY PLAN
DATE	06/26/2020
SCALE	AS SHOWN



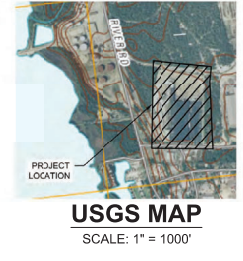
DATE	06/26/2020	DRAWING NUMBER	C-001
SCALE	AS SHOWN		



PROPERTY ADDRESS & PARCEL ID:
838 SUNNYSIDE DRIVE
WILMINGTON, NC 28412
PARCEL ID: R06400-001-002-000

PROPERTY OWNER:
NATIONAL GYPSUM COMPANY
2001 REXFORD ROAD
CHARLOTTE, NC 28211

SITE DATA:
NUMBER OF BUILDINGS: 1
NUMBER OF FLOORS: 1
ROOF AREA: 238,165 SF
TRACT PROPERTY: 26,975 AC
ZONED: INDUSTRIAL
CAMA LAND USE: URBAN



EROSION & SEDIMENT CONTROL LEGEND

- LIMIT OF DISTURBANCE
- - - ENVIRONMENTAL FEATURE
- - - 12" CURLEX SEDIMENT LOG
- - - SAWTOOTH LINE
- - - REMOVE & SALVAGE FENCE
- - - PROTECT FENCE
- - - SOIL DELINEATION
- - - ROCK CONSTRUCTION ENTRANCE
- - - REMOVE & DISPOSE ASPHALT
- - - TEMPORARY/PERMANENT SEEDING AREA
- - - RETENTION BASIN AREA
- - - PROTECT ASPHALT AREA
- - - STOCKPILE STORAGE AREA
- INLET PROTECTION
- UTILITY PROTECTION

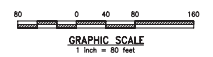
DEMOLITION LEGEND

- TREE PROTECTION FENCE
- × REMOVE TREE
- - - REMOVE FENCE
- - - LIMIT OF DISTURBANCE
- - - ASPHALT REMOVAL

WILMINGTON
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit #: _____
Signed: _____

NATIONAL GYPSUM
RAIL SPUR IMPROVEMENTS
APPROVED 6/23/20
SWP 2018041R1
BC, RC, CW, MB, BM

- E&S NOTES:**
- FOR GENERAL E&S NOTES, SEE SHEET C-201 – EROSION & SEDIMENT CONTROL – NOTES 1.
 - FOR CONSTRUCTION SEQUENCING SEE SHEET C-202 – EROSION & SEDIMENT CONTROL – NOTES 2.
 - FOR E&S DETAILS, SEE SHEETS C-203 THROUGH C-204.



PROJECT LOCATION	838 SUNNYSIDE DR., WILMINGTON, NC
TITLE	WILMINGTON WALLBOARD PLANT PROPOSED INDUSTRIAL SIDE TRACK & STORMWATER MANAGEMENT IMPROVEMENTS EROSION & SEDIMENT CONTROL PLAN
DATE	06/26/2020
SCALE	AS SHOWN
DRAWING NUMBER	C-200



530 Walnut Street
Plymouth, PA 15068-3685
610-922-9080

MAINTENANCE PROGRAM FOR SEDIMENT AND EROSION CONTROLS

1. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL, BUT IN NO CASE, LESS THAN ONCE EVERY WEEK AND WITHIN 24 HOURS OF EVERY HALF INCH RAINFALL.
2. ALL POINTS OF EGRESS WILL BE CONSTRUCTING ENTRANCES THAT WILL BE PERIODICALLY TOP-DRESSED WITH AN ADDITIONAL 2 INCHES OF #4 STONE TO MAINTAIN PROPER DEPTH. THEY WILL BE MAINTAINED IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE SITE. IMMEDIATELY REMOVE OBJECTABLE MATERIAL SPILLS, WASHED OR TRACKED ONTO THE CONSTRUCTION ENTRANCE OR ROADWAYS.
3. SEDIMENT WILL BE REMOVED FROM HARDWARE CLOTH AND GRAVEL INLET PROTECTION. BLOCK AND GRAVEL INLET PROTECTION, ROCK DOUGHNUT INLET PROTECTION AND ROCK PIPE INLET PROTECTION WHEN THE DESIGNED STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL, NO LONGER DRAINING AS DESIGNED, DEBRIS WILL BE REMOVED FROM THE ROCK AND HARDWARE CLOTH TO ALLOW PROPER DRAINAGE. SILT SACKS WILL BE EMPTIED ONCE A WEEK AND AFTER EVERY RAIN EVENT. SEDIMENT WILL BE REMOVED FROM AROUND MATTELS, BEAVER DAMN, DANDY SOCKS AND DOCKS ONCE A WEEKS AND AFTER EVERY RAIN EVENT.
4. DIVERSION DITCHES WILL BE CLEANED OUT IMMEDIATELY TO REMOVE SEDIMENT OR OBSTRUCTIONS FROM THE FLOW AREA. THE DIVERSION RIDGES WILL ALSO BE REPAIRED. SWALES MUST BE TEMPORARILY STABILIZED WITHIN 21 CALENDAR DAYS OF CEASE OF ANY PHASE OF ACTIVITY ASSOCIATED WITH A SWALE.
5. SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT BECOMES HALF FILLED. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER. STAKES MUST BE STEEL. STAKE SPACING WILL BE 6 FEET MAX., WITH THE USE OF EXTRA STRENGTH FABRIC, WITHOUT WIRE BACKING. STAKE SPACING WILL BE 8 FEET MAX. WHEN STANDARD STRENGTH FABRIC AND WIRE BACKING ARE USED. IF ROCK FILTERS ARE DESIGNED AT LOW POINTS IN THE SEDIMENT FENCE THE ROCK WILL BE REPAIRED OR REPLACED IF IT BECOMES HALF FULL OF SEDIMENT, NO LONGER DRAINING AS DESIGNED OR IS DAMAGED.
6. ALL SEEDED AREAS WILL BE FERTILIZED, RESEED AS NECESSARY AND MULCHED ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER. SEEDING MUST BE COMPLETED WITHIN 21 CALENDAR DAYS. ALL OTHER AREAS WILL BE STABILIZED WITHIN 15 WORKING DAYS.
7. FLOCCULANTS WILL BE USED TO ADDRESS TURBIDITY ISSUES. THE PUMPS, TANKS, HOSES AND INJECTION SYSTEMS WILL BE CHECKED FOR PROBLEMS OR TURBO DISCHARGES DAILY.

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL FACILITIES DURING CONSTRUCTION. ALL DAMAGED FACILITIES WILL BE REPAIRED WITHIN 24 HOURS. THE CONTRACTOR MUST REMOVE ANY CONTROL FACILITY UNLIT DIRECTED BY THE ENGINEER. MATERIALS USED FOR EROSION CONTROL OFF-SITE WHEN REMOVED, SUCH MATERIALS ARE CONSIDERED PROPERTY OF THE CONTRACTOR.

ROCK CONSTRUCTION ENTRANCE:

1. THE STRUCTURE'S THICKNESS WILL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE OF ROCK MATERIAL WILL BE MAINTAINED ON THE SITE FOR THIS PURPOSE.
2. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PUBLIC ROADWAYS WILL BE REMOVED BY USE OF A VACUUM TYPE ROAD SWEEPER AND RETURNED TO THE CONSTRUCTION SITE.

CURLEXP EROSION LOG:

1. THE LOG INSTALLATION SHALL BE INSPECTED WEEKLY, USING ANY ANTICIPATED PRECIPITATION EVENT, AND AFTER ALL PRECIPITATION EVENTS, ANY NECESSARY REPAIRS WILL BE MADE IMMEDIATELY.
2. ACCUMULATED SEDIMENTS SHALL BE REMOVED AS REQUIRED TO KEEP THE SOCK FUNCTIONING AS INTENDED. CASES MUST BE REPAIRED IMMEDIATELY. REPAIRS TO THE ABOVE-GROUND HEIGHT OF THE LOG.
3. ALL UNDERCUTTING OR EROSION OF THE TOE ANCHOR WILL BE REPAIRED IMMEDIATELY WITH COMPACTED BACKFILL MATERIALS.

SOIL STOCKPILES:

1. INSPECT SOIL STOCKPILES MONTHLY.
2. RESEED TO ESTABLISH GRASS COVER.

STANDARD SEQUENCE OF CONSTRUCTION NOTES

FOLLOWING IS A SCHEDULE OF EARTHMOVING/CONSTRUCTION ACTIVITIES AND INSTALLATION OF CONTROL MEASURES AND FACILITIES. ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED AT THE LOCATIONS SHOWN ON THE PLANS. THEY SHALL BE CONSTRUCTED ACCORDING TO THE DETAILS AND MAINTAINED AS INSTRUCTED ON THE DETAILS AND WITHIN THIS EROSION & SEDIMENTATION CONTROL PLAN.

ALL EXISTING DRAINAGE FACILITIES DIRECTLY UPSTREAM AND DOWNSTREAM OF THE PROJECT SITE WILL BE PROTECTED AND MAINTAINED. ALL EXISTING DRAINAGE FACILITIES WITHIN THE PROJECT LIMITS WILL BE PROTECTED DURING CONSTRUCTION AS OUTLINED IN THE E&S CONTROL PLANS. EXISTING SITE DRAINAGE WILL BE MAINTAINED AT ALL TIMES DURING AND AFTER CONSTRUCTION. EXISTING DRAINAGE FACILITIES ON THE SITE TO BE DEMOLISHED WILL BE REPLACED IN CONFORMANCE AND CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DRAWINGS.

1. PROVIDE WRITTEN NOTIFICATION (10 DAYS PRIOR TO ANTICIPATED START DATE) TO THE NC DEQ AND THE ENGINEERING DEPARTMENT OF WILMINGTON, NC THAT WORK IS SCHEDULED TO BEGIN. AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE OWNER SHALL INVIATE ALL CONTRACTORS INVOLVED IN THE PROPOSED ACTIVITIES, ALL APPROPRIATE MUNICIPAL OFFICIALS, THE EROSION AND SEDIMENTATION CONTROL PLAN PREPARER, AND A REPRESENTATIVE OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY (NC DEQ) TO AN ON-SITE PRE-CONSTRUCTION MEETING.
2. AT LEAST SEVEN (7) DAYS PRIOR TO ANY EARTH DISTURBANCE, THE INSPECTIONS COORDINATOR OF THE ENGINEERING DEPARTMENT OF WILMINGTON, NC (OFFICE: 910-341-7807) MUST BE CALLED TO SCHEDULE A PRECONSTRUCTION MEETING.
3. AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THESE ACTIVITIES SHALL NOTIFY THE NORTH CAROLINA ONE CALL SYSTEM INC. AT 1-800-632-4949 FOR BURIED UTILITIES LOCATION.
4. AT LEAST THREE (3) DAYS PRIOR TO INFILTRATION BASIN INSTALLATION, THE INSPECTIONS COORDINATOR OF THE ENGINEERING DEPARTMENT OF WILMINGTON, NC (OFFICE: 910-341-7807) MUST BE CALLED TO SCHEDULE AN INSPECTION. A LICENSED PROFESSIONAL OR DESIGNER SHALL BE PRESENT ON SITE DURING THE INSTALLATION OF THE STORMWATER BMPs.
5. BEFORE IMPLEMENTING ANY REVISIONS TO THE APPROVED EROSION & SEDIMENTATION CONTROL PLAN OR REVISIONS TO OTHER PLANS THAT MAY AFFECT THE EFFECTIVENESS OF THE APPROVED EROSION & SEDIMENTATION CONTROL PLAN, THE OWNER MUST RECEIVE THE APPROVAL OF THE NC DEQ, THE ENGINEERING DEPARTMENT OF WILMINGTON, NC. APPROVAL MUST ALSO BE RECEIVED BEFORE ANY CONSIDERABLE DEVIATIONS FROM THE APPROVAL.

APPROVED E&S PLAN ARE IMPLEMENTED. SHOULD THE CONTRACTOR WISH TO IMPLEMENT CHANGES, THE CONTRACTOR MUST PREPARE REVISED E&S PLANS FOR REVIEW AND APPROVAL BY THE OWNER/ENGINEER AND THEN SUBMIT TO APPROPRIATE AGENCIES FOR REGULATORY APPROVAL.

6. THE CONTRACTOR IS ADVISED THAT THE OWNER HAS DETERMINED THAT ALL EXCAVATED MATERIALS ARE TO REMAIN ON-SITE.
7. THE CONTRACTOR SHALL SWEEP (USING A VACUUM TRUCK) LOCAL ROADWAY PAVEMENT DAILY AND RETURN SEDIMENT TO WORK AREAS.
8. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT INSPECTIONS COORDINATOR OF THE ENGINEERING DEPARTMENT OF WILMINGTON, NC (OFFICE: 910-341-7807) FOR A FINAL INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPs.
9. AS SOON AS SLOPES, CHANNELS, DITCHES, AND OTHER DISTURBED AREAS REACH FINAL GRADE, THEY MUST BE STABILIZED. CESSATION OF ACTIVITY FOR FOUR (4) DAYS OR LONGER REQUIRES TEMPORARY STABILIZATION.
10. THE NPDES NOTICE OF TERMINATION (N.O.T.) MUST BE SUBMITTED BY THE OWNER/HOLDER OF THE PERMIT TO NC DEQ UPON COMPLETION OF CONSTRUCTION FOR THE NPDES PHASE ASSOCIATED WITH THE NATIONAL GYPSUM SITE IMPROVEMENTS.
17. WATER PUMPED FROM WORK AREAS SHOULD BE TREATED FOR SEDIMENT REMOVAL PRIOR TO DISCHARGING TO A SURFACE WATER (WHEN APPLICABLE).

SEQUENCE OF CONSTRUCTION

BEFORE IMPLEMENTING, ANY REVISIONS TO THE APPROVED POST CONSTRUCTION STORMWATER MANAGEMENT PLAN OR REVISIONS TO OTHER PLANS THAT MAY AFFECT THE EFFECTIVENESS OF THE APPROVED POST CONSTRUCTION STORMWATER MANAGEMENT PLAN, THE CONTRACTOR SHALL RECEIVE THE WRITTEN APPROVAL OF THE ENGINEERING DEPARTMENT OF WILMINGTON, NC.

AFTER THE COMPLETION OF THE INITIAL INSPECTION COORDINATION WITH THE ENGINEERING DEPARTMENT OF WILMINGTON (EAS INDICATED ABOVE) THE FOLLOWING CONSTRUCTION SEQUENCE CAN OCCUR IN THE FOLLOWING ORDER:

1. INSTALL SITE EROSION AND SEDIMENT (E&S) CONTROL BMPs IN ACCORDANCE WITH THE E&S STANDARD SEQUENCE OF CONSTRUCTION NOTE.
2. CLEAR AND GRUB SITE.
3. INSTALL ORANGE SAFETY FENCE AROUND PROPOSED INFILTRATION BASIN. BASIN FOOTPRINT TO BE PROTECTED DURING NON-BASIN CONSTRUCTION ACTIVITIES TO AVOID SOIL COMPACTION.
4. EXCAVATE TO RAIL SUB-BASE ELEVATIONS. INSTALL IMPERMEABLE GEOTEXTILE LAYER.
5. PERFORM RAIL INSTALLATION CONSTRUCTION SEQUENCING.
6. UPON FINALIZING RAIL SPUR CONSTRUCTION, GRADE AND INSTALL HARD SURFACES.
7. GRADE INFILTRATION BASINS TO BOTTOM OF BASIN GRADES. INSTALL OUTLET CONTROL STRUCTURE.
8. INSTALL CURLEXP SEDIMENT LOG AT BASIN BOTTOM FOOTPRINT TO PROTECT INFILTRATION AREA.
9. INSTALL SEDIMENT INDICATOR, INSPECT BASIN FOR ANY SEDIMENT BUILD-UP AFTER ALL RAIN EVENTS DURING CONSTRUCTION. SHOULD SEDIMENT BUILD-UP OCCUR, CONTRACTOR MUST REMOVE ACCESS SEDIMENT WITHOUT DISTURBING BASIN FOOTPRINT.
10. TRENCH AND INSTALL CONVEYANCE PIPING.
11. UPON COMPLETION OF ALL SMPs AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE INSPECTIONS COORDINATOR OF THE ENGINEERING DEPARTMENT OF WILMINGTON, NC (OFFICE: 910-341-7807) FOR A FINAL INSPECTION, PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPs.

NOTE: ALL EXISTING DRAINAGE FACILITIES DIRECTLY UPSTREAM AND DOWNSTREAM OF THE PROJECT SITE WILL BE PROTECTED AND MAINTAINED. WHERE APPLICABLE, EXISTING SITE DRAINAGE WILL BE MAINTAINED AT ALL TIMES DURING AND AFTER CONSTRUCTION. EXISTING DRAINAGE FACILITIES ON THE SITE TO BE DEMOLISHED WILL BE REPLACED IN CONFORMANCE AND CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DRAWINGS.

Temporary Seeding Recommendations

Late Winter & Early Spring

Seeding Status	Species	Rate (lb/1000 ft ²)
Soil	Perennial Ryegrass	1.0
Soil	Perennial Ryegrass	2.75
Soil	Perennial Ryegrass	4.13

Soil amendments: Apply lime and fertilizer according to soil tests, or apply 2,000 lb/acre (45.9 lb/1000 ft²) ground agricultural limestone and 750 lb/acre (17.2 lb/1000 ft²) 0-10-10 fertilizer.
Mixture: Apply 4,000 lb/acre (91.8 lb/1000 ft²) straw anchor straw by tracks with siphon, setting a multi anchoring tool. A disk with blades set nearly straight can be used as a multi anchoring tool.

Maintenance: Fertilizer if growth is not fully adequate. Re-seed, re-erect, and mulch immediately following erosion or other damage.

Summer

Seeding Status	Species	Rate (lb/1000 ft ²)
Soil	Annual Ryegrass	0.8
Soil	Annual Ryegrass	2.3
Soil	Annual Ryegrass	3.7

Soil amendments: Apply lime and fertilizer according to soil tests, or apply 2,000 lb/acre (45.9 lb/1000 ft²) ground agricultural limestone and 750 lb/acre (17.2 lb/1000 ft²) 0-10-10 fertilizer.
Mixture: Apply 4,000 lb/acre (91.8 lb/1000 ft²) straw anchor straw by tracks with siphon, setting a multi anchoring tool. A disk with blades set nearly straight can be used as a multi anchoring tool.

Maintenance: Fertilizer if growth is not fully adequate. Re-seed, re-erect, and mulch immediately following erosion or other damage.

Fall

Seeding Status	Species	Rate (lb/1000 ft ²)
Soil	Perennial Ryegrass	1.0
Soil	Perennial Ryegrass	2.75
Soil	Perennial Ryegrass	4.13

Soil amendments: Apply lime and fertilizer according to soil tests, or apply 2,000 lb/acre (45.9 lb/1000 ft²) ground agricultural limestone and 750 lb/acre (17.2 lb/1000 ft²) 0-10-10 fertilizer.
Mixture: Apply 4,000 lb/acre (91.8 lb/1000 ft²) straw anchor straw by tracks with siphon, setting a multi anchoring tool. A disk with blades set nearly straight can be used as a multi anchoring tool.

Maintenance: Fertilizer if growth is not fully adequate. Re-seed, re-erect, and mulch immediately following erosion or other damage.

Permanent Seeding Recommendations

Fall & Early Spring

Seeding Status	Species	Rate (lb/1000 ft ²)
Soil	Perennial Ryegrass	0.8
Soil	Perennial Ryegrass	2.3
Soil	Perennial Ryegrass	3.7

Soil amendments: Apply lime and fertilizer according to soil tests, or apply 2,000 lb/acre (45.9 lb/1000 ft²) ground agricultural limestone and 750 lb/acre (17.2 lb/1000 ft²) 0-10-10 fertilizer.
Mixture: Apply 4,000 lb/acre (91.8 lb/1000 ft²) straw anchor straw by tracks with siphon, setting a multi anchoring tool. A disk with blades set nearly straight can be used as a multi anchoring tool.

Maintenance: Fertilizer if growth is not fully adequate. Re-seed, re-erect, and mulch immediately following erosion or other damage.

Late Spring & Early Summer

Seeding Status	Species	Rate (lb/1000 ft ²)
Soil	Perennial Ryegrass	0.8
Soil	Perennial Ryegrass	2.3
Soil	Perennial Ryegrass	3.7

Soil amendments: Apply lime and fertilizer according to soil tests, or apply 2,000 lb/acre (45.9 lb/1000 ft²) ground agricultural limestone and 750 lb/acre (17.2 lb/1000 ft²) 0-10-10 fertilizer.
Mixture: Apply 4,000 lb/acre (91.8 lb/1000 ft²) straw anchor straw by tracks with siphon, setting a multi anchoring tool. A disk with blades set nearly straight can be used as a multi anchoring tool.

Maintenance: Fertilizer if growth is not fully adequate. Re-seed, re-erect, and mulch immediately following erosion or other damage.

NCGI SELF-INSPECTION, RECORDKEEPING AND REPORTING EFFECTIVE: 04/01/19

SECTION I - SELF-INSPECTION

The Inspector is required to inspect certain facilities to determine their status before. When adverse weather or site conditions could cause the safety or effectiveness of the E&S plan, the Inspector must inspect the facilities within the time frame specified in the E&S plan. The Inspector must inspect the facilities within the time frame specified in the E&S plan. The Inspector must inspect the facilities within the time frame specified in the E&S plan.

SECTION II - RECORDKEEPING

The E&S plan must be updated and any approved changes must be made to the E&S plan. The E&S plan must be updated and any approved changes must be made to the E&S plan. The E&S plan must be updated and any approved changes must be made to the E&S plan.

SECTION III - REPORTING

The E&S plan must be updated and any approved changes must be made to the E&S plan. The E&S plan must be updated and any approved changes must be made to the E&S plan. The E&S plan must be updated and any approved changes must be made to the E&S plan.


NCGI GROUND STABILIZATION AND MATERIALS HANDLING EFFECTIVE: 04/01/19

SECTION I - GROUND STABILIZATION

The contractor shall ensure that all ground stabilization materials are properly stored and handled. The contractor shall ensure that all ground stabilization materials are properly stored and handled. The contractor shall ensure that all ground stabilization materials are properly stored and handled.

SECTION II - MATERIALS HANDLING

The contractor shall ensure that all materials are properly stored and handled. The contractor shall ensure that all materials are properly stored and handled. The contractor shall ensure that all materials are properly stored and handled.



Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit #: _____
Signed: _____

NATIONAL GYPSUM
RAIL SPUR IMPROVEMENTS
APPROVED 6/23/20
SWP 2018041R1
BC, RC, WB, BM

838 SUNNYVALE DR., WILMINGTON, NC

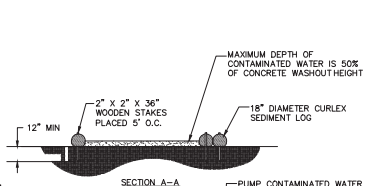
THE WILMINGTON WALLBOARD PLANT
PROPOSED INDUSTRIAL SIDE TRACK & STORMWATER IMPROVEMENTS
EROSION & SEDIMENT CONTROL - NOTES 2

DATE: 06/28/2020 DRAWING NUMBER: C-202



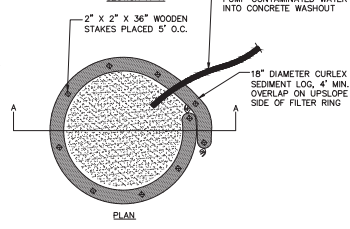
INSTALLATION NOTES:

1. PLACE GEOTEXTILE, CLASS 2, TYPE A BENEATH THE AREA OF THE WASHOUT.
2. STAKE CURLEX SEDIMENT LOGS IN A MANNER RECOMMENDED BY THE MANUFACTURER AROUND THE PERIMETER OF THE GEOTEXTILE SO AS TO FORM A RING WITH THE ENDS OF THE LOG LOCATED AT THE UPSLOPE CORNER.
3. ENSURE LOG MAINTAINS CONTINUOUS CONTACT WITH GEOTEXTILE AT ALL LOCATIONS.
4. LOGS MAY BE STAKED SO AS TO FORM A TRIANGULAR CROSS SECTION.

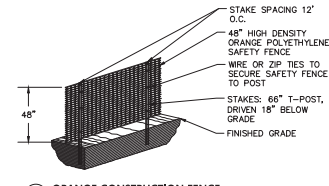


NOTES:

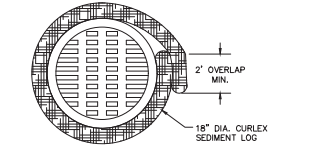
1. INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE.
2. 18" DIAMETER CURLEX SEDIMENT LOG MAY BE STAKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.
3. WASHOUT FACILITIES SHOULD NOT BE PLACED WITHIN 50 FEET OF STORM DRAINS, OPEN DITCHES OR SURFACE WATERS.
4. WHERE POSSIBLE, WASHOUT FACILITIES SHOULD BE LOCATED ON A SLOPE NOT EXCEEDING A 2% GRADE.
5. NO DIRECT DISCHARGE TO RIVER OR CITY SEWERS ALLOWED.



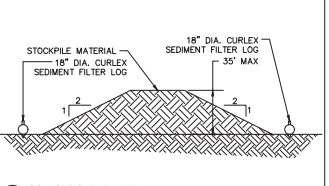
CONCRETE WASHOUT FACILITY DETAIL
NOT TO SCALE



ORANGE CONSTRUCTION FENCE
NOT TO SCALE



TYPICAL COMPOST SOCK WASHOUT INSTALLATION
NOT TO SCALE



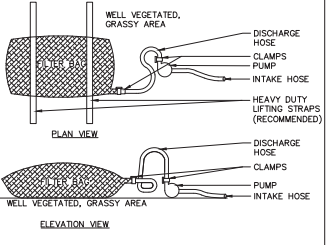
SOIL STOCKPILE AREA
NOT TO SCALE

NOTES:

1. LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4633	110 LB
MULLER BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AOB % RETAINED	ASTM D-4751	80 SIEVE

2. A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.
3. BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS, WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5% FOR SLOPES EXCEEDING 5%. CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.
4. NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPLETE BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.
5. THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.
6. THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SORENEED.
7. FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.



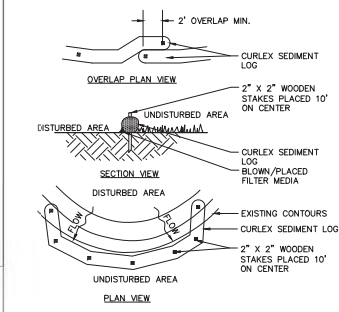
PUMPED WATER FILTER BAG
NOT TO SCALE

NOTES:

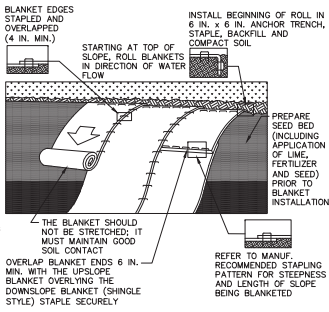
1. SEDIMENT LOG SHALL MEET STANDARDS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY CONTROL MANUAL, COMPOST CONTROL PLANNING DESIGN AND MANUAL.
2. SEDIMENT LOG SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.
3. TRAFFIC SHALL NOT BE PERMITTED TO CROSS SEDIMENT LOG.
4. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
5. COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
6. BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS. PHOTOGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
7. UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MESH SPREAD AS A SOIL SUPPLEMENT.
8. OBJECTS OF CONSIDERABLE MASS (I.E. CONCRETE BLOCKS, SAND BAGS, ETC.) MUST BE USED IMMEDIATELY DOWNSLOPE OF COMPOST SOCKS PLACED ON PAVED SURFACES (AT THE SAME INTERVALS AS RECOMMENDED BY THE SOCK MANUFACTURER FOR STAKES) IN ORDER TO HOLD THEM IN PLACE.

NOTES:

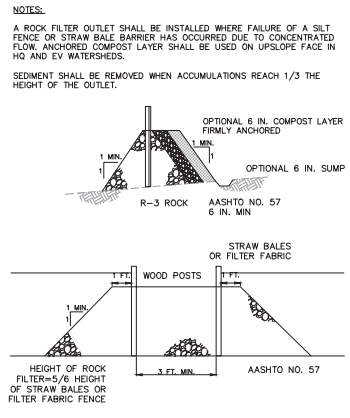
- 1.) SEED AND SOIL AMENDMENTS SHALL BE APPLIED ACCORDING TO THE RATES IN THE PLAN DRAWINGS PRIOR TO INSTALLING THE BLANKET.
- 2) PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE.
- 3) SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS.
- 4) BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BLANKET.
- 5) THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- 6) BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.



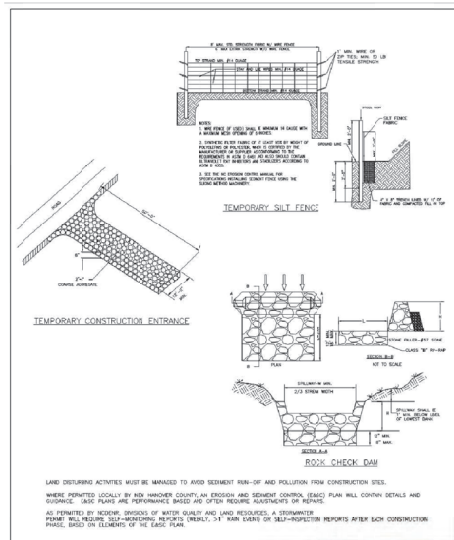
CURLEX SEDIMENT LOG
NOT TO SCALE



EROSION CONTROL MATTING
NOT TO SCALE



ROCK FILTER OUTLET
NOT TO SCALE



STANDARD DETAIL

GUIDELINES FOR SEDIMENT CONTROL BMPs

DATE: SEPTEMBER, 2012
 DRAWN BY: JMB
 CHECKED BY: EKL, P.E.
 SCALE: NOT TO SCALE

WILMINGTON
 CITY OF WILMINGTON ENGINEERING
 P.O. BOX 1810
 WILMINGTON, NC 28402
 (910) 341-7807

SHEET 1 OF 3

NATIONAL GYPSUM RAIL SPUR IMPROVEMENTS

APPROVED 6/23/20
 SWP 2018041R1
 BC, RC, CW, MB, BM

URBAN ENGINEERS

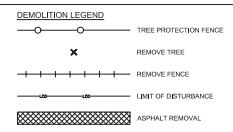
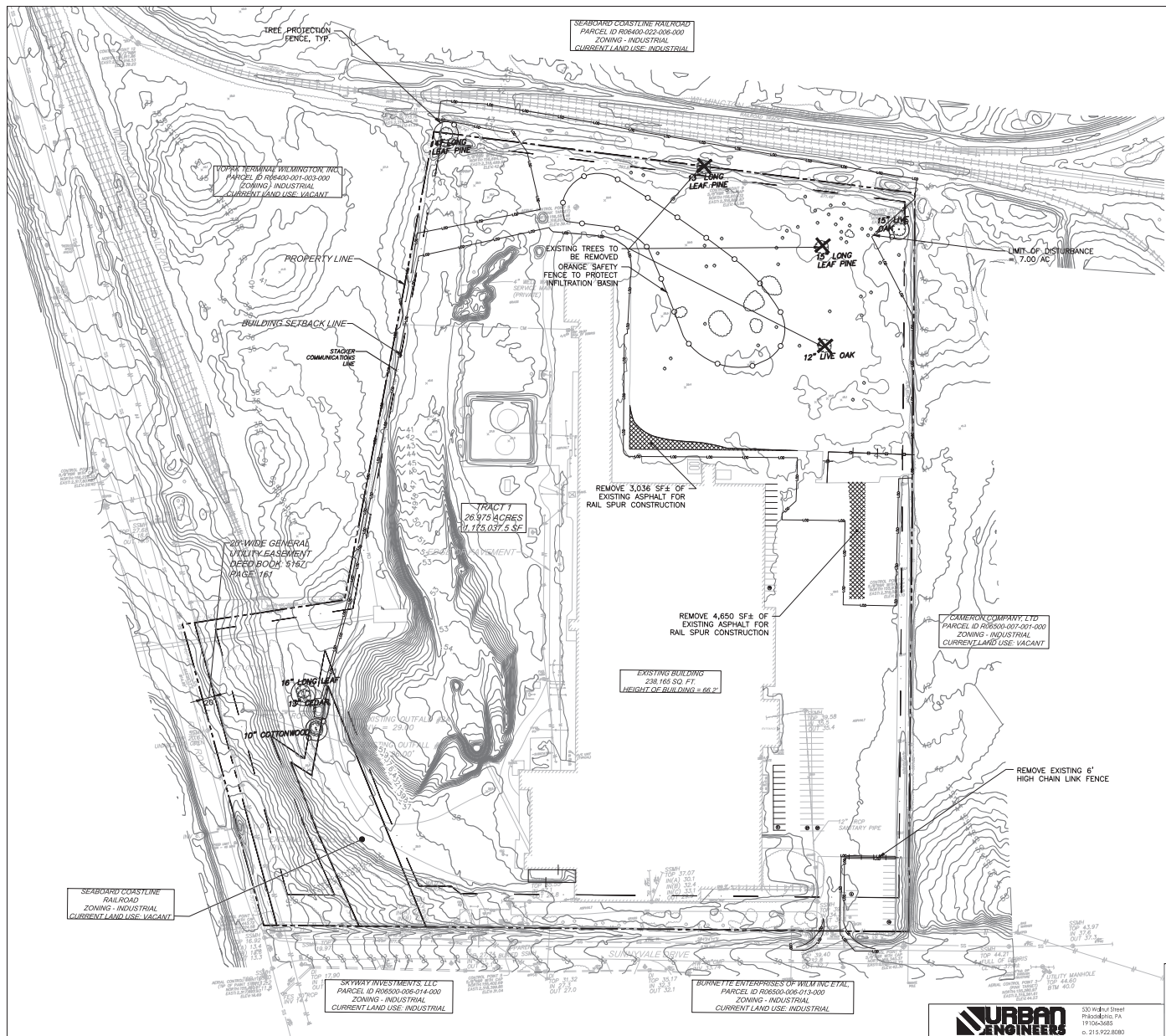
330 High Street
 Philadelphia, PA
 19106-3628
 Tel: 215-922-8080

National Gypsum COMPANY

838 SUNNYVALE DR., WILMINGTON, NC

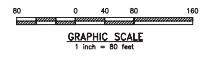
WILMINGTON WALLBOARD PLANT
 PROPOSED INDUSTRIAL SIDE TRACK &
 STORMWATER MANAGEMENT IMPROVEMENTS
 EROSION & SEDIMENT CONTROL - DETAILS 1

DATE: 06/28/2020
 DRAWING NUMBER: C-203



WILMINGTON
 Public Services • Engineering Division
 APPROVED STORMWATER MANAGEMENT PLAN
 Date: _____ Permit #: _____
 Signed: _____

NATIONAL GYPSUM
 RAIL SPUR IMPROVEMENTS
 APPROVED 6/23/20
 SWP 2018041R1
 BC, RC, CW, MB, BM



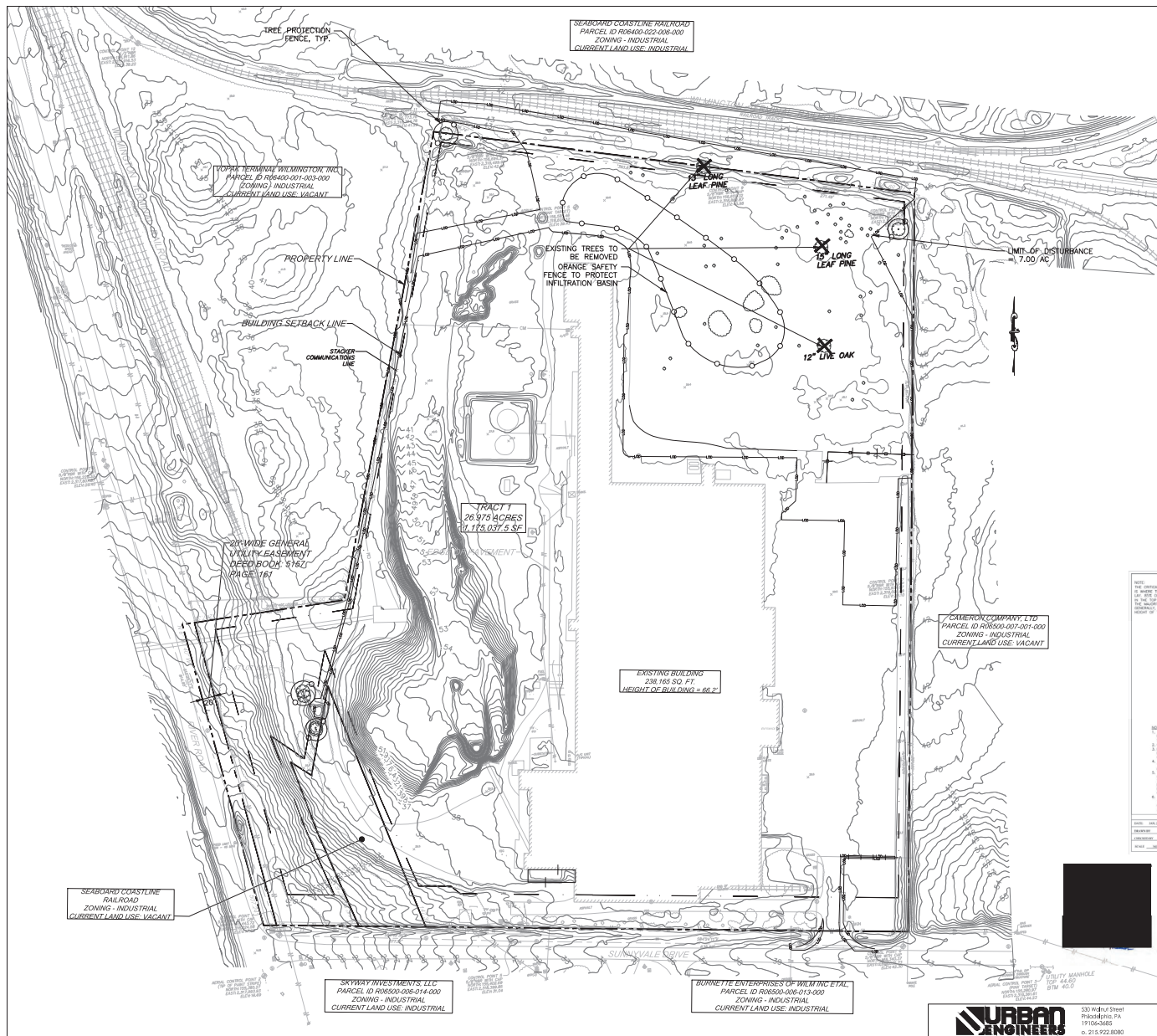
838 SUNNYVALE DR., WILMINGTON, NC



TITLE: WILMINGTON WALLBOARD PLANT
 PROPOSED INDUSTRIAL SIDE TRACK &
 STORMWATER MANAGEMENT IMPROVEMENTS
 DEMOLITION PLAN - OVERALL
 DATE: 06/28/2020
 DRAWING NUMBER: C-205



530 Walnut Street
 Philadelphia, PA 19106-3685
 P: 215-922-9080



TREE PROTECTION NOTES:
 PRIOR TO ANY CLEARING, GRADING, OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVE OF TREES, AND NO CONSTRUCTION WORKERS, TOOLS, MATERIALS OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.

TREE REMOVAL NOTES:
 NO PERSON, DIRECTLY OR INDIRECTLY, SHALL REMOVE ANY TREE FROM PUBLIC OR PRIVATE PROPERTY WITHOUT FIRST OBTAINING A TREE REMOVAL PERMIT FROM THE CITY MANAGER. A TREE REMOVAL PERMIT IS REQUIRED BEFORE ANY CLEARING, GRADING OR OTHER AUTHORIZATIONS MAY BE ISSUED INCLUDING SOI, AND SUBSTITUTION CONTROL, PLANTS, AND BUILDING PLANS; AN APPROVED TREE REMOVAL PERMIT FOR NEW CONSTRUCTION SHALL APPLY TO THE ENTIRE SITE. THE TREE REMOVAL PERMIT AND APPROVED TREE PRESERVATION PLAN SHALL BE POSTED AT THE JOB SITE WITH OTHER PERMITS FOR THE DURATION OF WORK ON THE SITE. A TREE REMOVAL PERMIT MAY BE EITHER ATTACHED TO THE SUBMITTED SITE PLAN OR THE SITE PLAN MAY BE CLEARLY MARKED FOR EITHER APPROVAL OR DENIAL.

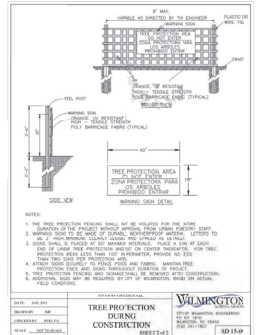
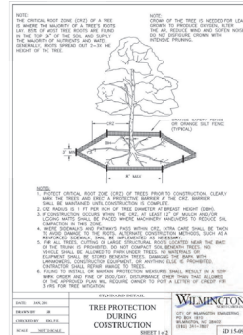
PROPERTY ADDRESS & PARCEL D:
 838 SUNNYVALE DRIVE
 WILMINGTON, NC 28412
 PARCEL ID: R06400-001-002-000

PROPERTY OWNER:
 NATIONAL GYPSUM COMPANY
 2001 REXFORD ROAD
 CHARLOTTE, NC 28211

SITE DATA:
 NUMBER OF BUILDINGS: 1
 NUMBER OF FLOORS: 1
 ROOF AREA: 2,351.65 SF
 TRACT PROPERTY: 26.975 AC.
 ZONE: INDUSTRIAL
 CAMA LAND USE: URBAN

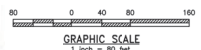
NATIONAL GYPSUM RAIL SPUR IMPROVEMENTS APPROVED 6/23/20
 SWP 2018041R1
 BC, RC, CW, MB, BM

City of **WILMINGTON**
 Public Services • Engineering Division
 APPROVED STORMWATER MANAGEMENT PLAN
 Date: _____ Permit #: _____
 Signed: _____



DATE: 06/23/20	PROJECT: NATIONAL GYPSUM COMPANY
DESIGNED BY: [Signature]	CHECKED BY: [Signature]
APPROVED BY: [Signature]	DATE: 06/23/20

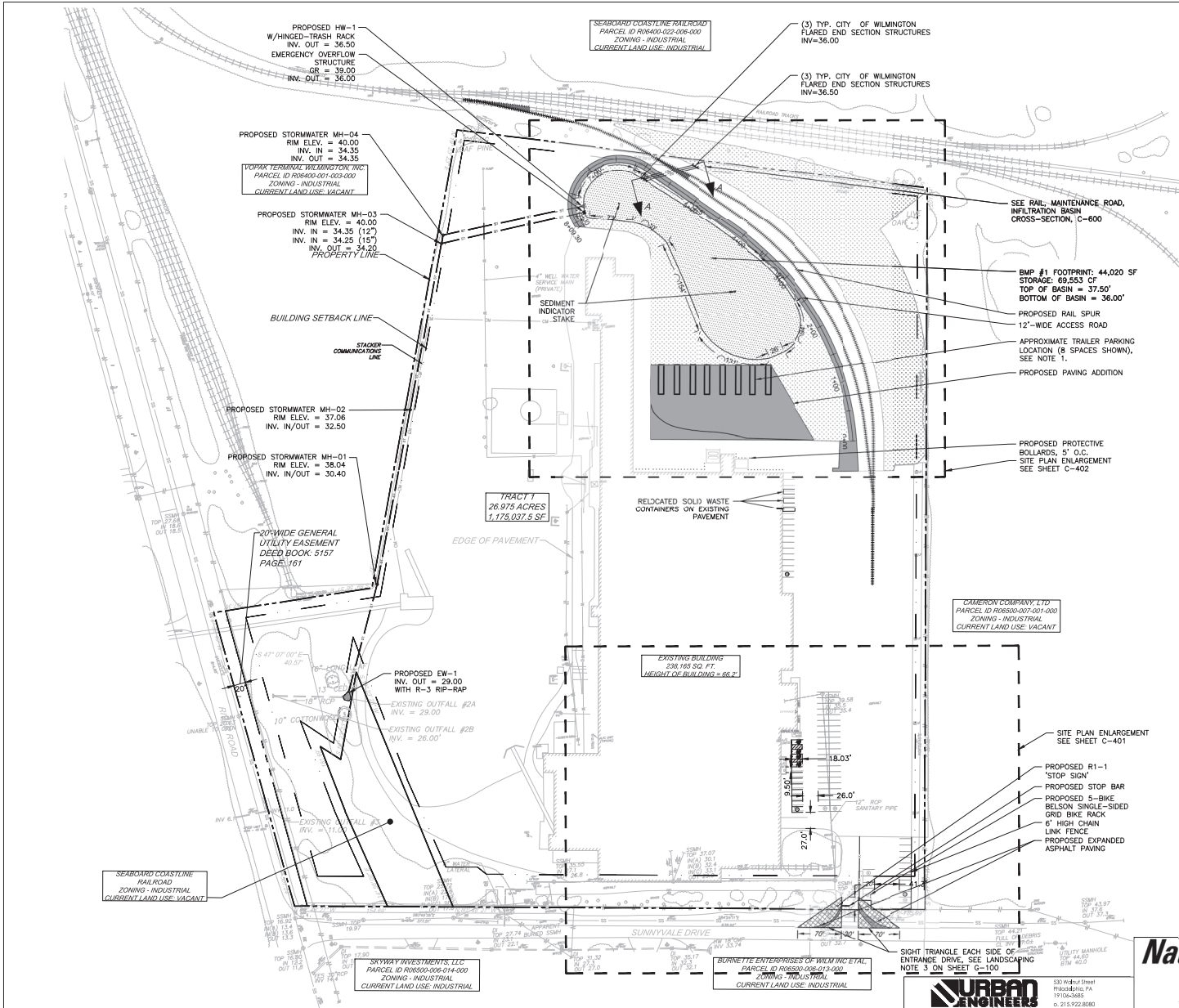
DATE: 06/23/20	PROJECT: NATIONAL GYPSUM COMPANY
DESIGNED BY: [Signature]	CHECKED BY: [Signature]
APPROVED BY: [Signature]	DATE: 06/23/20



LINE: 6/23/2000 RESPONSE TO 2420 NCC COMMENT	DATE: 06/23/20
SECTION: 1	PROJECT: NATIONAL GYPSUM COMPANY
LOCATION: 838 SUNNYVALE DR., WILMINGTON, NC	DATE: 06/23/20
TITLE: WILMINGTON WALLBOARD PLANT PROPOSED INDUSTRIAL SIDETRACK & STORMWATER MANAGEMENT IMPROVEMENTS TREE PROTECTION AND REMOVAL PLAN	DATE: 06/23/20
DRAWN BY: [Signature]	CHECKED BY: [Signature]
DATE: 06/23/20	DATE: 06/23/20
DRAWING NUMBER: C-206	



330 High Street
 Philadelphia, PA
 19106-3685
 610-992-9080

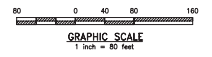


- SITE LEGEND**
- PROPOSED ASPHALT PAVING
 - 6' HIGH CHAIN LINK FENCE
 - ▭ RETENTION BASIN AREA
 - ▨ ADA ACCESSIBLE ROUTE
 - ▨ PROPOSED LAWN AREA
 - RAIL SPUR
 - BOLLARDS
 - ▨ STRIPING
 - BIKE RACK
- UTILITIES LEGEND**
- PROPOSED STORMWATER PIPE
 - ▭ SECONDARY OUTLET CONTROL STRUCTURE
 - ▭ HEADWALLENDWALL
 - MANHOLE

NOTES:
 1. THE EXACT INTENT OF THE EXPANDED PAVEMENT IS UNDETERMINED AT THIS TIME. TRAILER PARKING IS CURRENTLY SHOWN AS A PLACE HOLDER.

WILMINGTON
 Public Services • Engineering Division
 APPROVED STORMWATER MANAGEMENT PLAN
 Date: _____ Permit #: _____
 Signed: _____

NATIONAL GYPSUM
RAIL SPUR IMPROVEMENTS
 APPROVED 6/23/20
 SWP 2018041R1
 BC, RC, CW, MB, BM



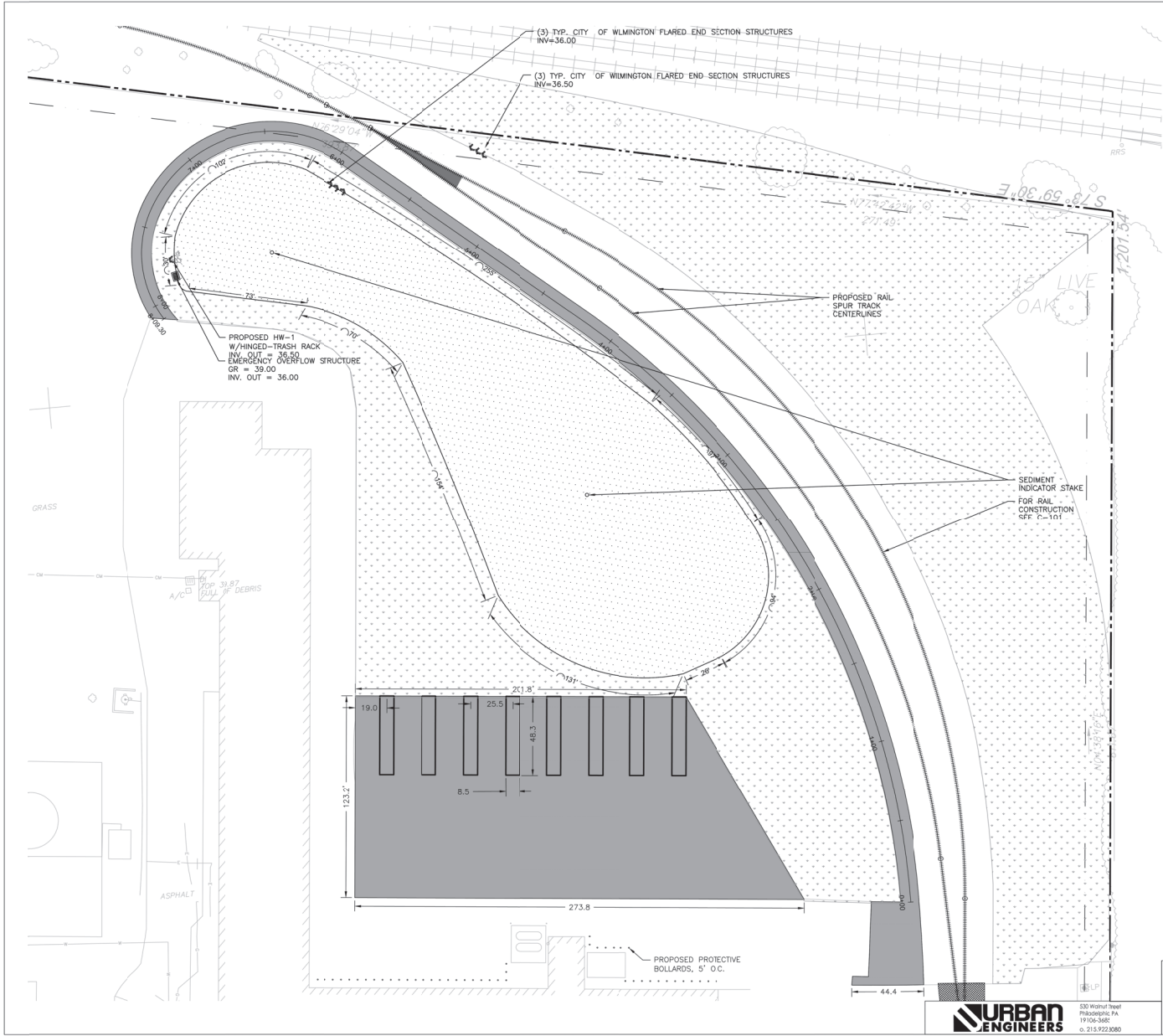
838 SUNNYVALE DR., WILMINGTON, NC

TITLE: WILMINGTON WALLBOARD PLANT
 PROPOSED INDUSTRIAL SIDE TRACK &
 STORMWATER MANAGEMENT IMPROVEMENTS
 SITE PLAN - OVERALL

DATE: 06/28/2020 DRAWING NUMBER: C-400



530 Walnut Street
 PHILADELPHIA, PA
 19106-3685
 P: 215-922-8080



- SITE LEGEND**
- PROPOSED ASPHALT PAVING
 - 6' HIGH CHAIN LINK FENCE
 - RETENTION BASIN AREA
 - ADA ACCESSIBLE ROUTE
 - PROPOSED LAWN AREA
 - RAIL SPUR
 - BOLLARDS
 - STRIPING
 - BIKE RACK
- UTILITIES LEGEND**
- PROPOSED STORMWATER PIPE
 - SECONDARY OUTLET CONTROL STRUCTURE
 - HEADWALL/ENDWALL
 - MANHOLE

Public Services • Engineering Division

 APPROVED STORMWATER MANAGEMENT PLAN

 Date: _____ Plant # _____

 Signed: _____

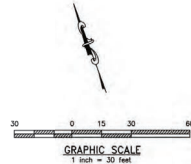
NATIONAL GYPSUM

RAIL SPUR IMPROVEMENTS

 APPROVED 6/23/20

 SWP 2018041R1

 BC, RC, CW, MB, BM



1. LINE NUMBER RESPONSE TO E202 N/C COMMENTS

 2. LINE NUMBER RESPONSE TO E203 N/C COMMENTS

 3. LINE NUMBER RESPONSE TO E204 N/C COMMENTS

 4. LINE NUMBER RESPONSE TO E205 N/C COMMENTS

 5. LINE NUMBER RESPONSE TO E206 N/C COMMENTS

 6. LINE NUMBER RESPONSE TO E207 N/C COMMENTS

 7. LINE NUMBER RESPONSE TO E208 N/C COMMENTS

 8. LINE NUMBER RESPONSE TO E209 N/C COMMENTS

 9. LINE NUMBER RESPONSE TO E210 N/C COMMENTS

 10. LINE NUMBER RESPONSE TO E211 N/C COMMENTS

 11. LINE NUMBER RESPONSE TO E212 N/C COMMENTS

 12. LINE NUMBER RESPONSE TO E213 N/C COMMENTS

 13. LINE NUMBER RESPONSE TO E214 N/C COMMENTS

 14. LINE NUMBER RESPONSE TO E215 N/C COMMENTS

 15. LINE NUMBER RESPONSE TO E216 N/C COMMENTS

 16. LINE NUMBER RESPONSE TO E217 N/C COMMENTS

 17. LINE NUMBER RESPONSE TO E218 N/C COMMENTS

 18. LINE NUMBER RESPONSE TO E219 N/C COMMENTS

 19. LINE NUMBER RESPONSE TO E220 N/C COMMENTS

 20. LINE NUMBER RESPONSE TO E221 N/C COMMENTS

 21. LINE NUMBER RESPONSE TO E222 N/C COMMENTS

 22. LINE NUMBER RESPONSE TO E223 N/C COMMENTS

 23. LINE NUMBER RESPONSE TO E224 N/C COMMENTS

 24. LINE NUMBER RESPONSE TO E225 N/C COMMENTS

 25. LINE NUMBER RESPONSE TO E226 N/C COMMENTS

 26. LINE NUMBER RESPONSE TO E227 N/C COMMENTS

 27. LINE NUMBER RESPONSE TO E228 N/C COMMENTS

 28. LINE NUMBER RESPONSE TO E229 N/C COMMENTS

 29. LINE NUMBER RESPONSE TO E230 N/C COMMENTS

 30. LINE NUMBER RESPONSE TO E231 N/C COMMENTS

 31. LINE NUMBER RESPONSE TO E232 N/C COMMENTS

 32. LINE NUMBER RESPONSE TO E233 N/C COMMENTS

 33. LINE NUMBER RESPONSE TO E234 N/C COMMENTS

 34. LINE NUMBER RESPONSE TO E235 N/C COMMENTS

 35. LINE NUMBER RESPONSE TO E236 N/C COMMENTS

 36. LINE NUMBER RESPONSE TO E237 N/C COMMENTS

 37. LINE NUMBER RESPONSE TO E238 N/C COMMENTS

 38. LINE NUMBER RESPONSE TO E239 N/C COMMENTS

 39. LINE NUMBER RESPONSE TO E240 N/C COMMENTS

 40. LINE NUMBER RESPONSE TO E241 N/C COMMENTS

 41. LINE NUMBER RESPONSE TO E242 N/C COMMENTS

 42. LINE NUMBER RESPONSE TO E243 N/C COMMENTS

 43. LINE NUMBER RESPONSE TO E244 N/C COMMENTS

 44. LINE NUMBER RESPONSE TO E245 N/C COMMENTS

 45. LINE NUMBER RESPONSE TO E246 N/C COMMENTS

 46. LINE NUMBER RESPONSE TO E247 N/C COMMENTS

 47. LINE NUMBER RESPONSE TO E248 N/C COMMENTS

 48. LINE NUMBER RESPONSE TO E249 N/C COMMENTS

 49. LINE NUMBER RESPONSE TO E250 N/C COMMENTS

 50. LINE NUMBER RESPONSE TO E251 N/C COMMENTS

 51. LINE NUMBER RESPONSE TO E252 N/C COMMENTS

 52. LINE NUMBER RESPONSE TO E253 N/C COMMENTS

 53. LINE NUMBER RESPONSE TO E254 N/C COMMENTS

 54. LINE NUMBER RESPONSE TO E255 N/C COMMENTS

 55. LINE NUMBER RESPONSE TO E256 N/C COMMENTS

 56. LINE NUMBER RESPONSE TO E257 N/C COMMENTS

 57. LINE NUMBER RESPONSE TO E258 N/C COMMENTS

 58. LINE NUMBER RESPONSE TO E259 N/C COMMENTS

 59. LINE NUMBER RESPONSE TO E260 N/C COMMENTS

 60. LINE NUMBER RESPONSE TO E261 N/C COMMENTS

 61. LINE NUMBER RESPONSE TO E262 N/C COMMENTS

 62. LINE NUMBER RESPONSE TO E263 N/C COMMENTS

 63. LINE NUMBER RESPONSE TO E264 N/C COMMENTS

 64. LINE NUMBER RESPONSE TO E265 N/C COMMENTS

 65. LINE NUMBER RESPONSE TO E266 N/C COMMENTS

 66. LINE NUMBER RESPONSE TO E267 N/C COMMENTS

 67. LINE NUMBER RESPONSE TO E268 N/C COMMENTS

 68. LINE NUMBER RESPONSE TO E269 N/C COMMENTS

 69. LINE NUMBER RESPONSE TO E270 N/C COMMENTS

 70. LINE NUMBER RESPONSE TO E271 N/C COMMENTS

 71. LINE NUMBER RESPONSE TO E272 N/C COMMENTS

 72. LINE NUMBER RESPONSE TO E273 N/C COMMENTS

 73. LINE NUMBER RESPONSE TO E274 N/C COMMENTS

 74. LINE NUMBER RESPONSE TO E275 N/C COMMENTS

 75. LINE NUMBER RESPONSE TO E276 N/C COMMENTS

 76. LINE NUMBER RESPONSE TO E277 N/C COMMENTS

 77. LINE NUMBER RESPONSE TO E278 N/C COMMENTS

 78. LINE NUMBER RESPONSE TO E279 N/C COMMENTS

 79. LINE NUMBER RESPONSE TO E280 N/C COMMENTS

 80. LINE NUMBER RESPONSE TO E281 N/C COMMENTS

 81. LINE NUMBER RESPONSE TO E282 N/C COMMENTS

 82. LINE NUMBER RESPONSE TO E283 N/C COMMENTS

 83. LINE NUMBER RESPONSE TO E284 N/C COMMENTS

 84. LINE NUMBER RESPONSE TO E285 N/C COMMENTS

 85. LINE NUMBER RESPONSE TO E286 N/C COMMENTS

 86. LINE NUMBER RESPONSE TO E287 N/C COMMENTS

 87. LINE NUMBER RESPONSE TO E288 N/C COMMENTS

 88. LINE NUMBER RESPONSE TO E289 N/C COMMENTS

 89. LINE NUMBER RESPONSE TO E290 N/C COMMENTS

 90. LINE NUMBER RESPONSE TO E291 N/C COMMENTS

 91. LINE NUMBER RESPONSE TO E292 N/C COMMENTS

 92. LINE NUMBER RESPONSE TO E293 N/C COMMENTS

 93. LINE NUMBER RESPONSE TO E294 N/C COMMENTS

 94. LINE NUMBER RESPONSE TO E295 N/C COMMENTS

 95. LINE NUMBER RESPONSE TO E296 N/C COMMENTS

 96. LINE NUMBER RESPONSE TO E297 N/C COMMENTS

 97. LINE NUMBER RESPONSE TO E298 N/C COMMENTS

 98. LINE NUMBER RESPONSE TO E299 N/C COMMENTS

 99. LINE NUMBER RESPONSE TO E300 N/C COMMENTS

 100. LINE NUMBER RESPONSE TO E301 N/C COMMENTS

 101. LINE NUMBER RESPONSE TO E302 N/C COMMENTS

 102. LINE NUMBER RESPONSE TO E303 N/C COMMENTS

 103. LINE NUMBER RESPONSE TO E304 N/C COMMENTS

 104. LINE NUMBER RESPONSE TO E305 N/C COMMENTS

 105. LINE NUMBER RESPONSE TO E306 N/C COMMENTS

 106. LINE NUMBER RESPONSE TO E307 N/C COMMENTS

 107. LINE NUMBER RESPONSE TO E308 N/C COMMENTS

 108. LINE NUMBER RESPONSE TO E309 N/C COMMENTS

 109. LINE NUMBER RESPONSE TO E310 N/C COMMENTS

 110. LINE NUMBER RESPONSE TO E311 N/C COMMENTS

 111. LINE NUMBER RESPONSE TO E312 N/C COMMENTS

 112. LINE NUMBER RESPONSE TO E313 N/C COMMENTS

 113. LINE NUMBER RESPONSE TO E314 N/C COMMENTS

 114. LINE NUMBER RESPONSE TO E315 N/C COMMENTS

 115. LINE NUMBER RESPONSE TO E316 N/C COMMENTS

 116. LINE NUMBER RESPONSE TO E317 N/C COMMENTS

 117. LINE NUMBER RESPONSE TO E318 N/C COMMENTS

 118. LINE NUMBER RESPONSE TO E319 N/C COMMENTS

 119. LINE NUMBER RESPONSE TO E320 N/C COMMENTS

 120. LINE NUMBER RESPONSE TO E321 N/C COMMENTS

 121. LINE NUMBER RESPONSE TO E322 N/C COMMENTS

 122. LINE NUMBER RESPONSE TO E323 N/C COMMENTS

 123. LINE NUMBER RESPONSE TO E324 N/C COMMENTS

 124. LINE NUMBER RESPONSE TO E325 N/C COMMENTS

 125. LINE NUMBER RESPONSE TO E326 N/C COMMENTS

 126. LINE NUMBER RESPONSE TO E327 N/C COMMENTS

 127. LINE NUMBER RESPONSE TO E328 N/C COMMENTS

 128. LINE NUMBER RESPONSE TO E329 N/C COMMENTS

 129. LINE NUMBER RESPONSE TO E330 N/C COMMENTS

 130. LINE NUMBER RESPONSE TO E331 N/C COMMENTS

 131. LINE NUMBER RESPONSE TO E332 N/C COMMENTS

 132. LINE NUMBER RESPONSE TO E333 N/C COMMENTS

 133. LINE NUMBER RESPONSE TO E334 N/C COMMENTS

 134. LINE NUMBER RESPONSE TO E335 N/C COMMENTS

 135. LINE NUMBER RESPONSE TO E336 N/C COMMENTS

 136. LINE NUMBER RESPONSE TO E337 N/C COMMENTS

 137. LINE NUMBER RESPONSE TO E338 N/C COMMENTS

 138. LINE NUMBER RESPONSE TO E339 N/C COMMENTS

 139. LINE NUMBER RESPONSE TO E340 N/C COMMENTS

 140. LINE NUMBER RESPONSE TO E341 N/C COMMENTS

 141. LINE NUMBER RESPONSE TO E342 N/C COMMENTS

 142. LINE NUMBER RESPONSE TO E343 N/C COMMENTS

 143. LINE NUMBER RESPONSE TO E344 N/C COMMENTS

 144. LINE NUMBER RESPONSE TO E345 N/C COMMENTS

 145. LINE NUMBER RESPONSE TO E346 N/C COMMENTS

 146. LINE NUMBER RESPONSE TO E347 N/C COMMENTS

 147. LINE NUMBER RESPONSE TO E348 N/C COMMENTS

 148. LINE NUMBER RESPONSE TO E349 N/C COMMENTS

 149. LINE NUMBER RESPONSE TO E350 N/C COMMENTS

 150. LINE NUMBER RESPONSE TO E351 N/C COMMENTS

 151. LINE NUMBER RESPONSE TO E352 N/C COMMENTS

 152. LINE NUMBER RESPONSE TO E353 N/C COMMENTS

 153. LINE NUMBER RESPONSE TO E354 N/C COMMENTS

 154. LINE NUMBER RESPONSE TO E355 N/C COMMENTS

 155. LINE NUMBER RESPONSE TO E356 N/C COMMENTS

 156. LINE NUMBER RESPONSE TO E357 N/C COMMENTS

 157. LINE NUMBER RESPONSE TO E358 N/C COMMENTS

 158. LINE NUMBER RESPONSE TO E359 N/C COMMENTS

 159. LINE NUMBER RESPONSE TO E360 N/C COMMENTS

 160. LINE NUMBER RESPONSE TO E361 N/C COMMENTS

 161. LINE NUMBER RESPONSE TO E362 N/C COMMENTS

 162. LINE NUMBER RESPONSE TO E363 N/C COMMENTS

 163. LINE NUMBER RESPONSE TO E364 N/C COMMENTS

 164. LINE NUMBER RESPONSE TO E365 N/C COMMENTS

 165. LINE NUMBER RESPONSE TO E366 N/C COMMENTS

 166. LINE NUMBER RESPONSE TO E367 N/C COMMENTS

 167. LINE NUMBER RESPONSE TO E368 N/C COMMENTS

 168. LINE NUMBER RESPONSE TO E369 N/C COMMENTS

 169. LINE NUMBER RESPONSE TO E370 N/C COMMENTS

 170. LINE NUMBER RESPONSE TO E371 N/C COMMENTS

 171. LINE NUMBER RESPONSE TO E372 N/C COMMENTS

 172. LINE NUMBER RESPONSE TO E373 N/C COMMENTS

 173. LINE NUMBER RESPONSE TO E374 N/C COMMENTS

 174. LINE NUMBER RESPONSE TO E375 N/C COMMENTS

 175. LINE NUMBER RESPONSE TO E376 N/C COMMENTS

 176. LINE NUMBER RESPONSE TO E377 N/C COMMENTS

 177. LINE NUMBER RESPONSE TO E378 N/C COMMENTS

 178. LINE NUMBER RESPONSE TO E379 N/C COMMENTS

 179. LINE NUMBER RESPONSE TO E380 N/C COMMENTS

 180. LINE NUMBER RESPONSE TO E381 N/C COMMENTS

 181. LINE NUMBER RESPONSE TO E382 N/C COMMENTS

 182. LINE NUMBER RESPONSE TO E383 N/C COMMENTS

 183. LINE NUMBER RESPONSE TO E384 N/C COMMENTS

 184. LINE NUMBER RESPONSE TO E385 N/C COMMENTS

 185. LINE NUMBER RESPONSE TO E386 N/C COMMENTS

 186. LINE NUMBER RESPONSE TO E387 N/C COMMENTS

 187. LINE NUMBER RESPONSE TO E388 N/C COMMENTS

 188. LINE NUMBER RESPONSE TO E389 N/C COMMENTS

 189. LINE NUMBER RESPONSE TO E390 N/C COMMENTS

 190. LINE NUMBER RESPONSE TO E391 N/C COMMENTS

 191. LINE NUMBER RESPONSE TO E392 N/C COMMENTS

 192. LINE NUMBER RESPONSE TO E393 N/C COMMENTS

 193. LINE NUMBER RESPONSE TO E394 N/C COMMENTS

 194. LINE NUMBER RESPONSE TO E395 N/C COMMENTS

 195. LINE NUMBER RESPONSE TO E396 N/C COMMENTS

 196. LINE NUMBER RESPONSE TO E397 N/C COMMENTS

 197. LINE NUMBER RESPONSE TO E398 N/C COMMENTS

 198. LINE NUMBER RESPONSE TO E399 N/C COMMENTS

 199. LINE NUMBER RESPONSE TO E400 N/C COMMENTS

 200. LINE NUMBER RESPONSE TO E401 N/C COMMENTS

 201. LINE NUMBER RESPONSE TO E402 N/C COMMENTS

GRAPHIC SCALE

 1 inch = 30 feet

530 Walnut Street

 Philadelphia, PA

 19106-3688

 o. 215.922.8080

National Gypsum COMPANY

838 SUNNYVALE DR., WILMINGTON, NC

TITLE: WILMINGTON WALLBOARD PLANT

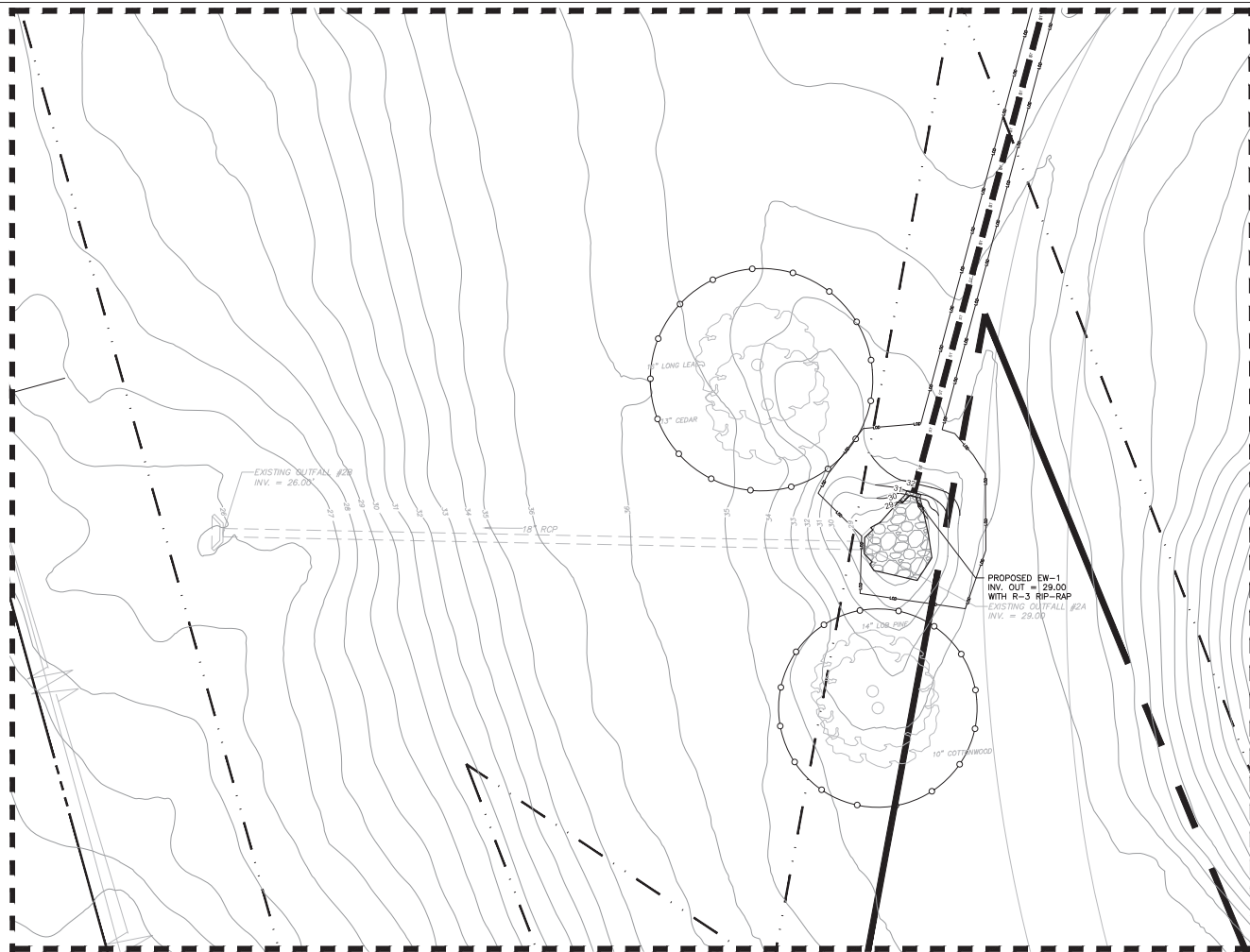
 PROPOSED INDUSTRIAL SIDE TRACK &

 STORMWATER MANAGEMENT IMPROVEMENTS

 SITE PLAN - ENLARGEMENT 2

DATE: 06/26/2020

 DRAWING NUMBER: C-402



GRADING LEGEND

	40		MAJOR CONTOUR
	41		MINOR CONTOUR
	+37.86		SPOT ELEVATION
			SLOPES

NATIONAL GYPSUM
RAIL SPUR IMPROVEMENTS
APPROVED 6/23/20
SWP 2018041R1
BC, RC, CW, MB, BM

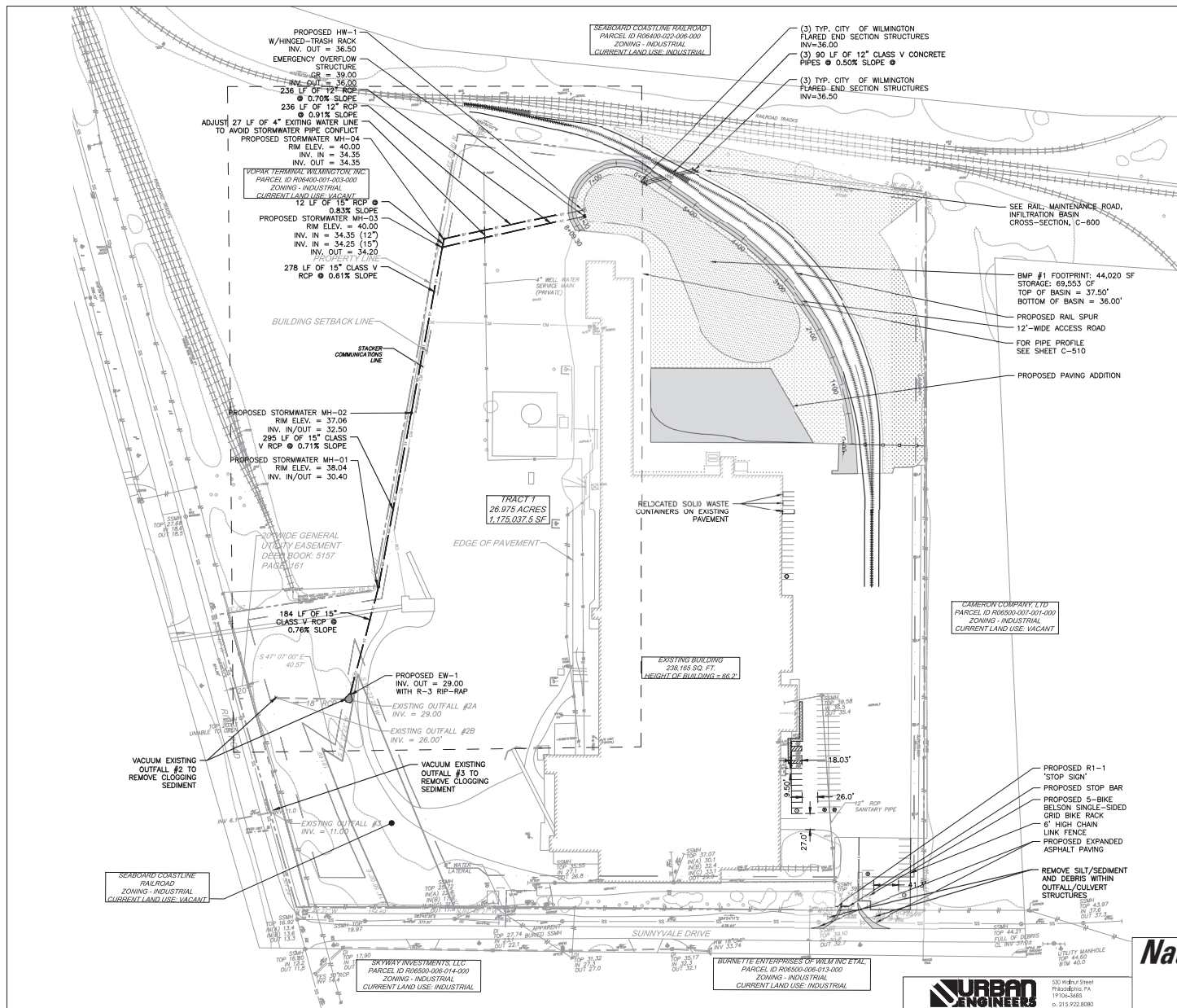
Wilmington
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit # _____
Signed: _____



URBAN ENGINEERS
530 High-Rise Street
Plymouth, PA 15067-3685
610-922-9080

National Gypsum COMPANY

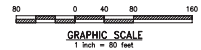
DATE: 06/23/2020	RESPONSE TO: 24200-NC-0000015
DATE: 06/23/2020	RESPONSE TO: 19219-NC-0000015
REV: 01	DATE: 06/23/2020
REVISION	DESCRIPTION
LOCATION	838 SUNNYVALE DR., WILMINGTON, NC
TITLE	WILMINGTON WALLBOARD PLANT PROPOSED INDUSTRIAL SIDE TRACK & STORMWATER MANAGEMENT IMPROVEMENTS ENDWALL GRADING DETAIL
DATE	
DRAWN BY: JMC	DATE: 06/23/2020
CHECKED BY: JMC	DATE: 06/23/2020
DRAWING NUMBER	C-412



- UTILITIES LEGEND**
- PROPOSED STORMWATER PIPE
 - SECONDARY OUTLET CONTROL STRUCTURE
 - HEADWALLENDRAIN
 - MANHOLE

WILMINGTON
 NORTH-CAROLINA
 Public Services & Engineering Division
 APPROVED STORMWATER MANAGEMENT PLAN
 Date: _____ Permit #: _____
 Signed: _____

NATIONAL GYPSUM
 RAIL SPUR IMPROVEMENTS
 APPROVED 6/23/20
 SWP 2018041R1
 BC, RC, CW, MB, BM



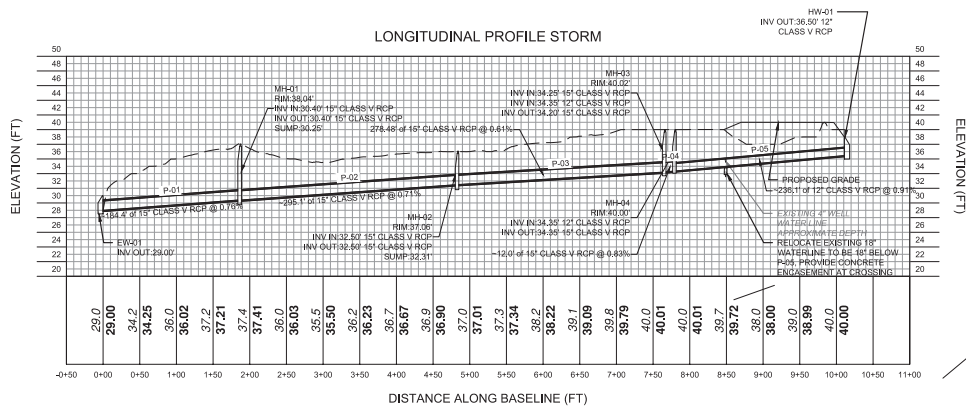
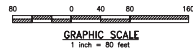
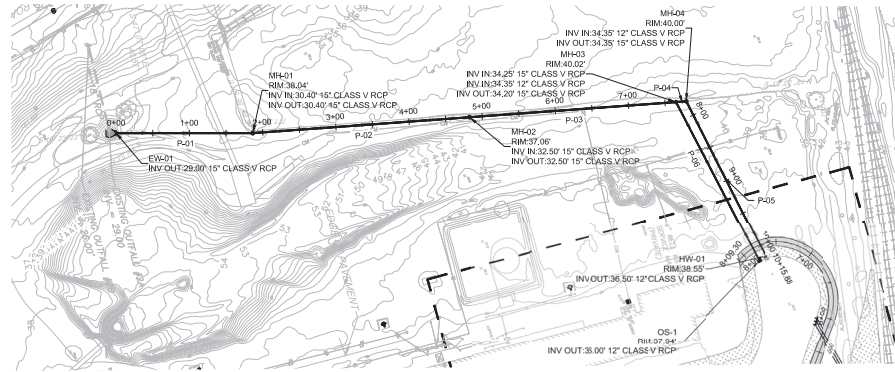
PROJECT LOCATION: 838 SUNNYVALE DR., WILMINGTON, NC

PROJECT TITLE: WILMINGTON WALLBOARD PLANT PROPOSED INDUSTRIAL SIDE TRACK & STORMWATER MANAGEMENT IMPROVEMENTS UTILITY PLAN - OVERALL

DATE: 06/28/2020
 DRAWING NUMBER: C-500



330 Walnut Street
 Philadelphia, PA
 19106-3685
 P: 215-922-8080



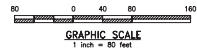
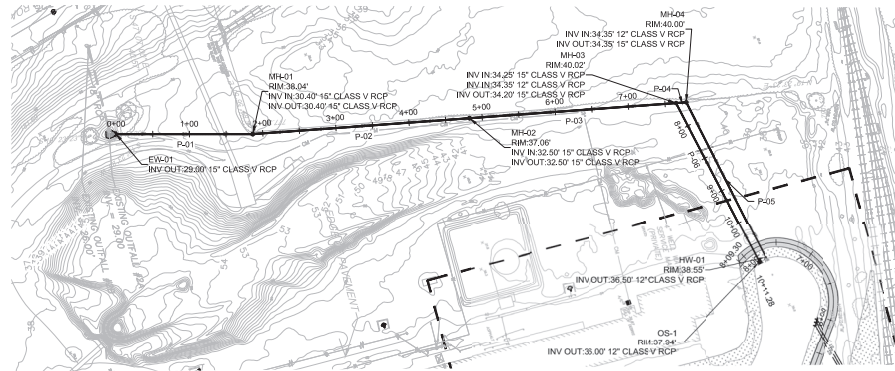
NATIONAL GYPSUM
RAIL SPUR IMPROVEMENTS
APPROVED 6/23/20
SWP 2018041R1
BC, RC, CW, MB, BM

PROJECT: 2018041R1
 SHEET: 01 OF 01
 DATE: 06/23/2020
 LOCATION: 838 SUNNYVALE DR., WILMINGTON, NC

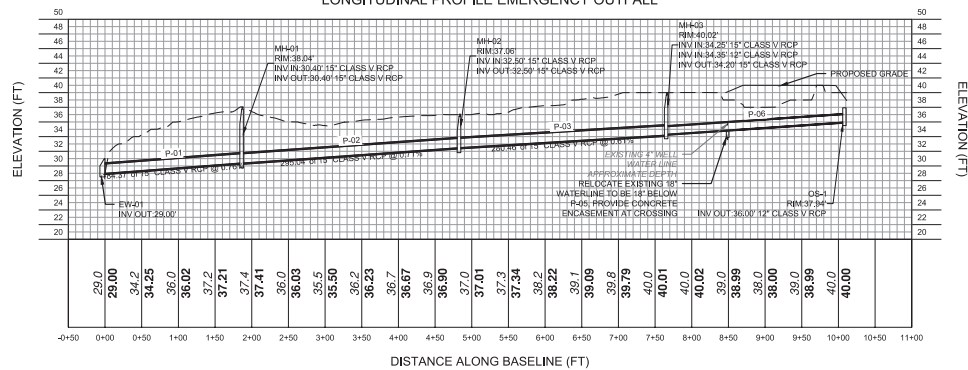
TITLE: WILMINGTON WALLBOARD PLANT
 PROPOSED INDUSTRIAL SIDE TRACK &
 STORMWATER MANAGEMENT IMPROVEMENTS
 UTILITY PROFILE - STORM

DRAWN BY: JMC
 CHECKED BY: JMC
 DATE: 06/23/2020
 PROJECT NUMBER: C-501





LONGITUDINAL PROFILE EMERGENCY OUTFALL



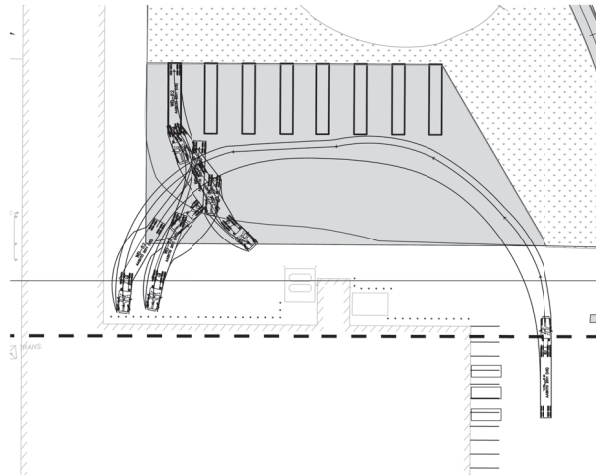
NATIONAL GYPSUM
RAIL SPUR IMPROVEMENTS
APPROVED 6/23/20
SWP 2018041R1
BC, RC, CW, MB, BM

838 SUNNYVALE DR., WILMINGTON, NC

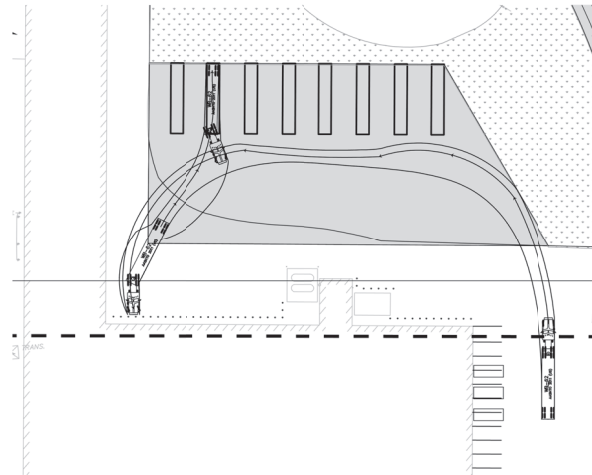
TITLE: WILMINGTON WALLBOARD PLANT
PROPOSED INDUSTRIAL SIDE TRACK &
STORMWATER MANAGEMENT IMPROVEMENTS
EMERGENCY OUTFALL UTILITY PROFILE



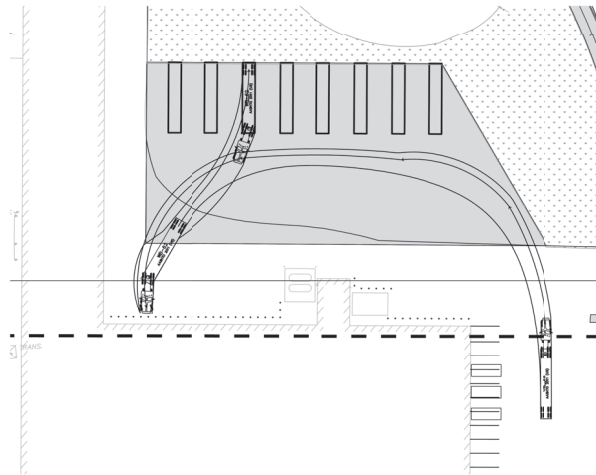
DATE: 06/20/2020
DRAWING NUMBER: C-502



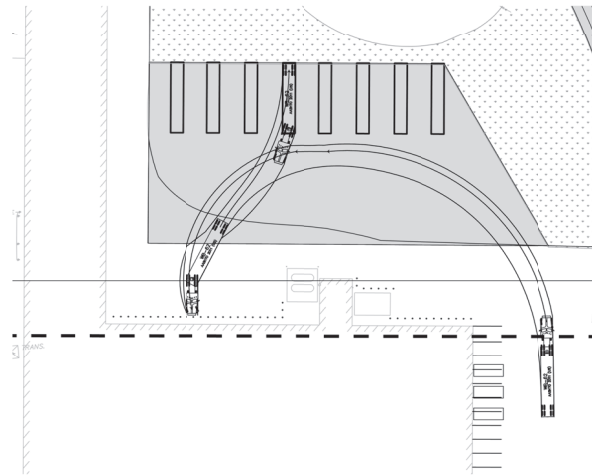
WB-62 TRUCK TURNING MANEUVER - SPOT 1
SCALE: 1" = 40'



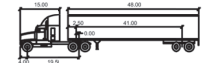
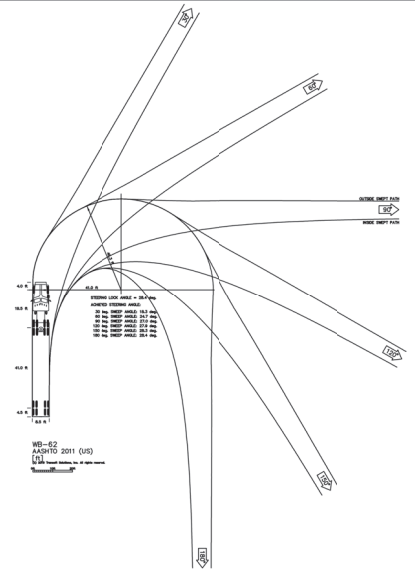
WB-62 TRUCK TURNING MANEUVER - SPOT 2
SCALE: 1" = 40'



WB-62 TRUCK TURNING MANEUVER - SPOT 3
SCALE: 1" = 40'



WB-62 TRUCK TURNING MANEUVER - SPOT 4
SCALE: 1" = 40'



WB-62

Trailer Width	8.00	Lock to Lock Time	6.0
Trailer Length	41.00	Swinging Angle	23.4
Trailer Track	8.00	Approaching Angle	19.0
Trailer Track	8.00		

WILMINGTON
Public Services • Engineering Division
APPROVE STORMWATER MANAGEMENT PLAN
Date: _____ Permit #: _____
Signed: _____

NATIONAL GYPSUM
RAIL SPUR IMPROVEMENTS
APPROVED 6/23/20
SWP 2018041R1
BC, RC, CW, MB, BM

- NOTE:**
1. PROTECTIVE BOLLARDS WILL BE INSTALLED AT 5-FOOT ON CENTER, IF NECESSARY TO PROTECT THE BUILDING.
 2. DESIGN SPEED FOR TURNING MANEUVER - SPOT 1: 2 MPH.
 3. DESIGN SPEED FOR TURNING MANEUVERS - SPOTS 2-4: 6 MPH.



GRAPHIC SCALE
1 inch = 40 feet

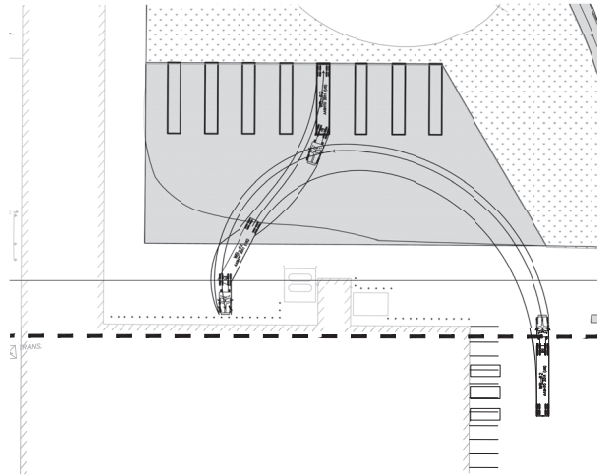
URBAN ENGINEERS
530 Wigham Street
Philadelphia, PA
19106-3688
p. 215.922.2680

National Gypsum COMPANY

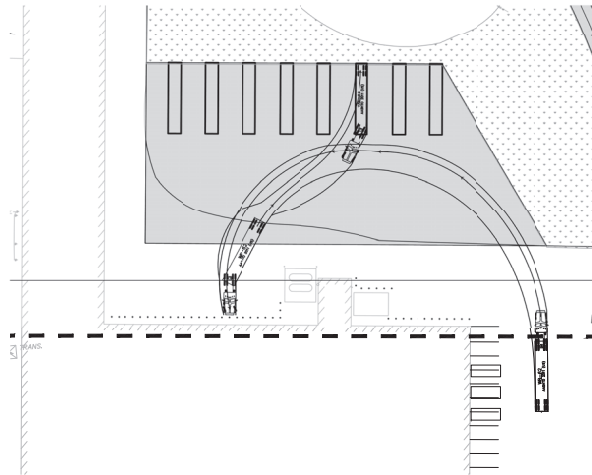
838 SUNNYVALE DR., WILMINGTON, NC

TITLE: WILMINGTON WALLBOARD PLANT
PROPOSED INDUSTRIAL SIDE TRACK &
STORMWATER MANAGEMENT IMPROVEMENTS
WB-62 TRUCK TURNING MANEUVER PLAN

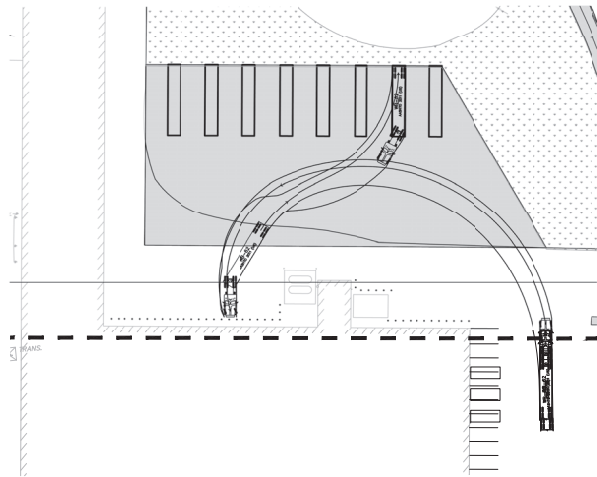
DATE: 04/26/2020
DRAWING NUMBER: C-701



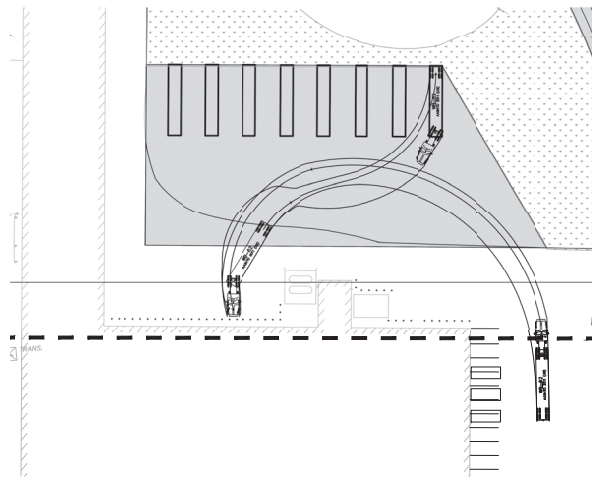
WB-62 TRUCK TURNING MANEUVER - SPOT 5
SCALE: 1" = 40'



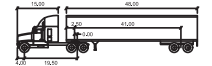
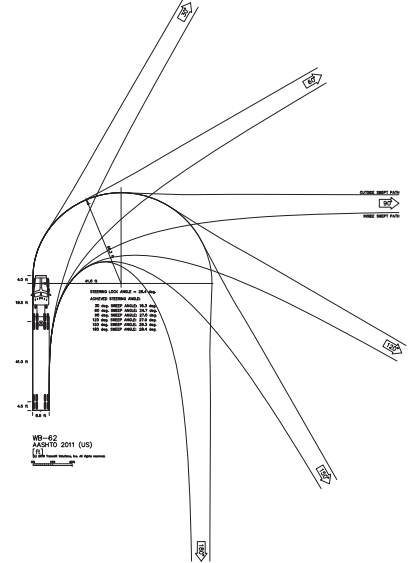
WB-62 TRUCK TURNING MANEUVER - SPOT 6
SCALE: 1" = 40'



WB-62 TRUCK TURNING MANEUVER - SPOT 7
SCALE: 1" = 40'



WB-62 TRUCK TURNING MANEUVER - SPOT 8
SCALE: 1" = 40'

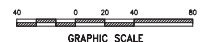


WB-62	Unit	
Trailer Width	8.50	Lock to Lock Time
Trailer Height	8.50	Steering Angle
Trailer Track	8.50	Articulating Angle
Trailer Track	8.50	

WILMINGTON
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: Permit #
Signed:

NATIONAL GYPSUM
RAIL SPUR IMPROVEMENTS
APPROVED 6/23/20
SWP 2018041R1
BC, RC, CW, MB, BM

NOTE:
7. PROTECTIVE BOLLARDS WILL BE INSTALLED AT 5-FOOT ON CENTER, IF NECESSARY TO PROTECT THE BUILDING.
8. DESIGN SPEED FOR TURNING MANEUVERS - SPOTS 5-8: 6 MPH.



URBAN ENGINEERS
530 Walnut Street
PHILADELPHIA, PA
19106-3685
P: 215-922-9080

National Gypsum COMPANY

PROJECT: 838 SUNNYVALE DR., WILMINGTON, NC

TITLE: WILMINGTON WALLBOARD PLANT PROPOSED INDUSTRIAL SIDE TRACK & STORMWATER MANAGEMENT IMPROVEMENTS WB-62 TRUCK TURNING MANEUVER PLAN

DATE: 06/20/2020 DRAWING NUMBER: C-702



COVERAGE LEGEND

- IMPERVIOUS
- PERVIOUS
- EXISTING BUILDING
- DRAINAGE AREA #4
- DRAINAGE AREA
- FLOW ARROW

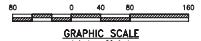
- EXISTING DRAINAGE NOTES:**
1. DRAINAGE AREA BASED OFF OF ARIEL TOPOGRAPHY AND PREVIOUSLY APPROVED CITY OF WILMINGTON NORTH CAROLINA DRAINAGE AREA PLAN.
 2. FIELD OBSERVATIONS SHOW DIFFERENT DRAINAGE PATTERNS COMPARED TO THE PREVIOUSLY APPROVED DRAINAGE AREA PLAN.
 3. TC CALCULATIONS CAN BE FOUND IN ATTACHED STORMWATER NARRATIVE BINDER.
 4. TIME OF CONCENTRATION CALCULATION FOR DRAINAGE AREA #3 WAS NOT DETERMINED BECAUSE THIS DRAINAGE AREA'S FLOW IS CONCENTRATED WITHIN THE DRAINAGE AREA ITSELF. DRAINAGE AREA #3 IS NOT INCLUDED IN THE PRE/POST PEAK FLOW CALCULATIONS.

EXISTING LAND COVER CALCULATIONS

DRAINAGE AREA	IMPERVIOUS SURFACE (SF)	IMPERVIOUS SURFACE (AC)	PERVIOUS SURFACE (SF)	PERVIOUS SURFACE (AC)	OVERALL AREA (SF)
DRAINAGE AREA - 1	2,917	0.07	82,039	1.92	85,956
DRAINAGE AREA - 2	107,628	2.47	245,956	5.58	353,584
DRAINAGE AREA - 3	46,165	1.04	225,255	5.11	271,420
DRAINAGE AREA - 4	247,011	5.68	17,277	0.40	264,288
TOTAL	363,721	8.26	669,527	15.07	1,033,248



NATIONAL GYPSUM
RAIL SPUR IMPROVEMENTS
 APPROVED 6/23/20
 SWP 2018041R1
 BC, RC, CW, MB, BM



URBAN ENGINEERS
 530 Walnut Street
 Philadelphia, PA 19106-3685
 P: 215-922-9080

National Gypsum COMPANY

PROJECT NO.	DATE	DESCRIPTION
838 SUNNYVALE DR., WILMINGTON, NC	06/28/2020	PROPOSED INDUSTRIAL SIDE TRACK & STORMWATER MANAGEMENT IMPROVEMENTS EXISTING DRAINAGE AREA PLAN
DRAWN BY	CHECKED BY	DATE
		06/28/2020
PROJECT NUMBER	C-900	



COVERAGE LEGEND

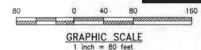
- IMPERVIOUS
- PERVIOUS
- EXISTING BUILDING
- DRAINAGE AREA #4
- DRAINAGE AREA LABEL
- DRAINAGE AREA
- LIMIT-OF-DISTURBANCE
- FLOW ARROW

PROPOSED LAND COVER CALCULATIONS

DRAINAGE AREA	IMPERVIOUS SURFACE (SF)	IMPERVIOUS SURFACE (AC)	PERVIOUS SURFACE (SF)	PERVIOUS SURFACE (AC)	OVERALL AREA (SF)
DRAINAGE AREA-1	0.067	0.14	60,479	1.35	60,546.35
DRAINAGE AREA-2	797,209	4.32	349,892	8.03	346,891.00
DRAINAGE AREA-3	17,880	0.39	141,963	3.21	275,385.00
DRAINAGE AREA-4	297,711	5.65	17,277	0.38	264,788.00
TOTAL	1,182,857	12.50	689,611	15.37	1,173,610

PROPOSED DRAINAGE NOTES:

1. TIME OF CONCENTRATION CALCULATIONS CAN BE FOUND IN ATTACHED STORMWATER NARRATIVE BINDER. PROPOSED TIME OF CONCENTRATION TIMES ARE THE SAME AS EXISTING TCS BECAUSE NO CHANGE IN DRAINAGE AREAS 1, 2 & 4 ARE PROPOSED.



City of WILMINGTON
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit # _____
Signed: _____

NATIONAL GYPSUM
RAIL SPUR IMPROVEMENTS
APPROVED 6/23/20
SWP 2018041R1
BC, RC, CW, MB, BM

National Gypsum COMPANY

URBAN ENGINEERS
530 Walnut Street
Philadelphia, PA 19106-3688
P: 215.922.2680

PROJECT: 838 SUNNYVALE DR., WILMINGTON, NC
DATE: 06/28/2020
DRAWING NUMBER: C-901