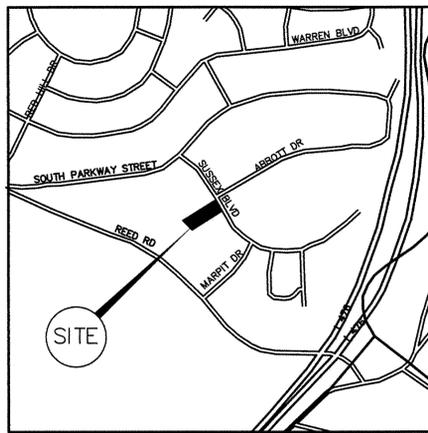


Plotted: 1-21-16 @9:55am By: apowell



LOCATION MAP  
1" = 1,000'

SEQUENCE OF CONSTRUCTION

ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. UNLESS SPECIFICALLY INDICATED OTHERWISE, EACH STAGE SHALL BE COMPLETED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE.

AT LEAST SEVEN (7) DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE OPERATOR SHALL NOTIFY ALL CONTRACTORS INVOLVED IN THESE ACTIVITIES, AS WELL AS THE LANDOWNER, THE DESIGN ENGINEER, AND ALL APPROPRIATE MUNICIPAL OFFICIALS TO AN ONSITE PRE-CONSTRUCTION MEETING.

ALL EXCESS MATERIALS AND WASTE GENERATED DURING THE CLEARING AND GRUBBING OF THIS SITE SHALL BE REMOVED FROM THIS SITE AND RECYCLED OR PROPERLY DISPOSED. WASTE CANNOT BE BURIED ON SITE. EROSION CONTROL FACILITIES (SILT FENCE, STONE BERM, ETC.) SHOULD BE REMOVED AND REUSED, IF AND WHEN POSSIBLE, OR REMOVED FOR OFFSITE DISPOSAL.

THE PROJECT AREA OF DISTURBANCE IS 0.92 ACRES, AND THE PROJECT IS TO BE CONSTRUCTED IN ONE PHASE. THE CONTRACTOR IS ADVISED TO BECOME FAMILIAR WITH ALL EROSION CONTROL MEANS AND METHODS OUTLINED IN THE "EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL" PUBLISHED BY THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (PADEP), MARCH 2000 EDITION. COPIES OF THESE PLANS MUST BE AVAILABLE ON SITE THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL BE AWARE THAT NO SEDIMENT-LADEN RUNOFF SHALL BE ALLOWED TO FLOW TO THE PROPOSED UNDERGROUND INFILTRATION SYSTEM. ALL FLOW INTO THE INFILTRATION SYSTEM SHALL BE BLOCKED UNTIL ALL SITE AREAS ARE STABILIZED.

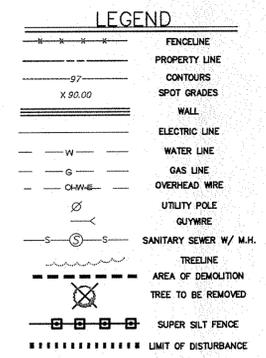
EROSION AND SEDIMENT CONTROL FACILITIES ARE TO BE CHECKED AND PROPERLY MAINTAINED WEEKLY AND AFTER EACH STORM EVENT. SUFFICIENT QUANTITIES OF SILT FENCING, CRUSHED STONE, STRAW BALES, SEEDING AND MULCHING SHOULD BE READILY AVAILABLE FOR REMEDIAL WORK IF REQUIRED.

ALL DISTURBED AREAS THAT CANNOT BE STABILIZED PER THE TEMPORARY STABILIZATION SPECIFICATIONS DUE TO ONGOING EARTHMOVING AND OTHER TRAFFIC SHALL RECEIVE AN APPLICATION OF WOOD CHIP MULCH (3 TONS PER ACRE) OR A HAY OR STRAW MULCH (3 TONS PER ACRE). ALL OTHER DISTURBED AREAS REMAINING OPEN SHALL BE TEMPORARILY SEED AND MULCHED.

- 1. STAKE OUT LIMIT OF DISTURBANCE AS INDICATED ON PLANS.
2. INSTALL EROSION CONTROL MEASURES (ROCK CONSTRUCTION ENTRANCE, SUPER SILT FENCE) AS INDICATED ON THE PLANS.
3. CLEAR AND GRUB SITE IN AREA OF PROPOSED PARKING LOT, ALONG WITH AREA FOR DRIVEWAY ADJACENT TO EXISTING BUILDING. STRIP TOPSOIL AND STOCKPILE WHERE INDICATED ON THE PLAN. IMMEDIATELY STABILIZE STOCKPILE AND PLACE SILT FENCE PER THE PLANS AND SPECIFICATIONS.
4. EXCAVATE AND CONSTRUCT UNDERGROUND STORMWATER INFILTRATION BED. INSTALL STORMWATER COLLECTION/CONVEYANCE SYSTEM (YARD DRAINS, ROOF DRAINS), AND IMMEDIATELY SEAL AT-GRADE OPENINGS TO PREVENT SEDIMENT-LADEN RUNOFF FROM ENTERING UNDERGROUND INFILTRATION BED.
5. ROUGH GRADE PARKING LOT AND ADJACENT DRIVEWAY AREAS. PLACE STONE SUBBASE ON DRIVEWAY AREAS TO BE PAVED. ROOF DRAINAGE FROM BUILDING TO DISCHARGE TEMPORARILY TO GROUND SURFACE VIA SPLASH BLOCKS.
6. FINISH GRADE ALL DISTURBED AREAS, SPREAD TOPSOIL ON THOSE AREAS THAT ARE TO BE LANDSCAPED AS THEY REACH FINAL GRADE AND STABILIZE IMMEDIATELY ACCORDING TO THE PERMANENT STABILIZATION SPECIFICATIONS. WHEN THE TRIBUTARY AREAS TO THE UNDERGROUND STORMWATER BED HAVE BEEN STABILIZED, REMOVE BLOCKAGES FROM INLET TOPS.
7. INSTALL ASPHALT BINDER COURSE ON DRIVEWAY AREAS AS SOON AS POSSIBLE. INSTALL ASPHALT WEARING COURSE ON DRIVEWAY AREAS.
8. ONCE ALL DISTURBED AREAS OF SITE HAVE BEEN STABILIZED IN ACCORDANCE WITH THE FINAL STABILIZATION REQUIREMENTS, REMOVE ANY REMAINING EROSION CONTROL MEASURES. IMMEDIATELY STABILIZE ALL AREAS DISTURBED BY THIS OPERATION.

- NOTES
1. LOT AREA = 1.01 ACR. (44,209.98 S.F.)
2. DEED PLOT AND TOPOGRAPHY BASED ON THE PLAN ENTITLED 'SITE IMPROVEMENT PLAN PREPARED FOR HIFI HOUSE,' PREPARED BY YERKES ASSOCIATES DATED MARCH 8, 2005, AND FIELD VERIFIED BY THIS OFFICE ON APRIL 1, 2015 AND JULY 7, 2015.
3. PLAN WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT.
4. BY GRAPHIC PLOTTING ONLY, THIS PROPERTY IS IN ZONE 'X' OF THE FLOOD INSURANCE RATE MAP, MAP NO. 4204500104F, COMMUNITY PANEL NO. 104, WHICH BEARS AN EFFECTIVE DATE OF NOVEMBER 18, 2009.
5. SOIL DELINEATION LINES TAKEN FROM PENN STATE COLLEGE OF AGRICULTURAL SCIENCES COOPERATIVE EXTENSION SOIL MAP VERSION 2.
6. SITE IS SERVICED BY PUBLIC SEWER AND WATER.
7. PER SURFACE EVIDENCE OBSERVED THERE ARE NO SEWAGE INFILTRATION AREAS OR WELLS IN THE VICINITY OF THE PROPOSED INFILTRATION SYSTEM.

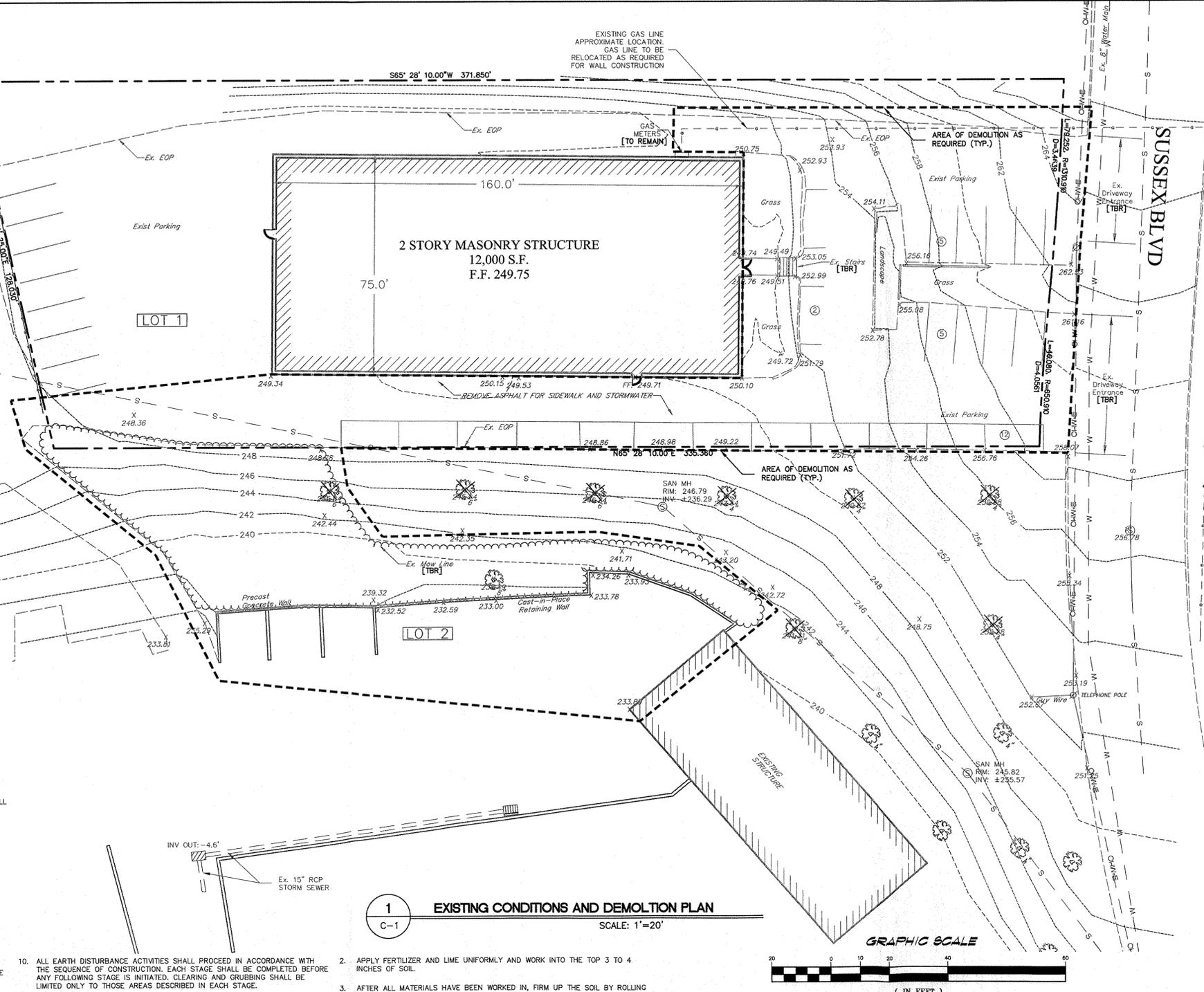
OWNER-LOT 1
MARPLE TOWNSHIP
227 S SPROUL RD
BROOMALL, PA 19008
OWNER-LOT 2
MARPLE TOWNSHIP
227 S SPROUL RD
BROOMALL, PA 19008



STORMWATER SEQUENCE OF CONSTRUCTION

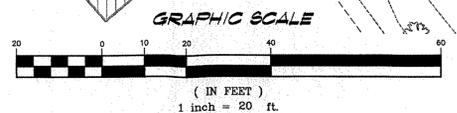
- 1. STAKE OUT FOOTPRINT OF THE SEEPAGE BED ON THE LOT UNDER CONSTRUCTION. ENSURE THAT AREA DOWNGRADIENT OF SEEPAGE BED CONSTRUCTION IS PROTECTED BY EROSION CONTROL MEASURE (SILT FENCE) AS INDICATED ON APPROVED EROSION CONTROL PLAN. ALL TRIBUTARY INLETS, YARD DRAINS, ETC. CONNECTED TO SEEPAGE BED TO BE SEALED WATERTIGHT TO PREVENT INTRUSION OF SEDIMENT-LADEN RUNOFF INTO BED.
2. EXCAVATE AREA FOR SEEPAGE BED. NOTIFY MUNICIPAL/DESIGN ENGINEER IN ADVANCE TO ALLOW ENGINEER TO INSPECT THE PLACEMENT OF FABRIC AND STONE. INSTALLATION OF FABRIC AND STONE SHALL BE APPROVED BY THE MUNICIPAL ENGINEER SITE INSPECTOR. ALL SEDIMENT SHALL BE REMOVED AND OR FABRIC AND STONE REPLACED IF SEDIMENT ENTERS THE SEEPAGE BED.
3. INSTALL GEOTEXTILE FABRIC (CONFORMING TO SPECIFICATIONS ON DESIGN DETAILS) ON BOTTOM AND SIDES OF EXCAVATION AND PLACE INITIAL LAYER OF STONE ON BOTTOM OF BED.
4. INSTALL PERFORATED PIPE AND OTHER SEEPAGE BED ELEMENTS AND BACKFILL WITH STONE AS INDICATED ON DESIGN DETAILS. ONCE STONE REACHES TOP ELEVATION, WRAP GEOTEXTILE FABRIC.
5. PLACE BACKFILL ON TOP OF WRAPPED BED TO ACHIEVE FINAL GRADE OR PAVEMENT SUBGRADE.
6. ORANGE CONSTRUCTION FENCE AND EROSION CONTROL MEASURES SHALL BE REMOVED ONCE TRIBUTARY AREAS ARE STABILIZED. IMMEDIATELY STABILIZE ALL AREAS DISTURBED BY THIS OPERATION.
7. ONCE ALL TRIBUTARY AREAS ARE FULLY STABILIZED, REMOVE WATERTIGHT SEALS FROM ALL INLETS AND YARD DRAINS TRIBUTARY TO SEEPAGE BED. INSPECT THESE STRUCTURES AND IMMEDIATELY REMOVE ANY SEDIMENT AND/OR DEBRIS THAT MAY HAVE COLLECTED IN BOTTOM OF SUCH STRUCTURES, TO PREVENT MIGRATION OF SEDIMENT AND/OR DEBRIS INTO SEEPAGE BED PIPING.

- GENERAL NOTES
1. STOCKPILE HEIGHTS MUST NOT EXCEED 35 FEET. STOCKPILE SLOPES MUST BE 2:1 OR FLATTER.
2. THE OPERATOR SHALL ASSURE THAT THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS PROPERLY AND COMPLETELY IMPLEMENTED.
3. UNTIL THE SITE ACHIEVES FINAL STABILIZATION, THE OPERATOR SHALL ASSURE THAT THE BEST MANAGEMENT PRACTICES ARE IMPLEMENTED, OPERATED, AND MAINTAINED PROPERLY AND COMPLETELY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL BEST MANAGEMENT PRACTICE FACILITIES. THE OPERATOR SHALL MAINTAIN COMPLETE, WRITTEN INSPECTION LOGS OF ALL THOSE INSPECTIONS. ALL MAINTENANCE WORK, INCLUDING CLEANING, REPAIR, REPLACEMENT, REGRADING, AND RESTABILIZATION SHALL BE PERFORMED IMMEDIATELY.
4. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION.
5. BEFORE INITIATING ANY REVISIONS TO THE APPROVED EROSION AND SEDIMENT CONTROL PLAN OR REVISIONS TO OTHER PLANS WHICH MAY AFFECT THE EFFECTIVENESS OF THE APPROVED E&S CONTROL PLAN, THE OPERATOR MUST RECEIVE APPROVAL OF THE ENGINEER.
6. ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE THROUGH A SEDIMENT CONTROL BMP, SUCH AS A PUMPED WATER FILTER BAG DISCHARGING OVER NON-DISTURBED AREAS.
7. A COPY OF THE EROSION AND SEDIMENT CONTROL PLAN MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES.
8. EROSION AND SEDIMENT BMP'S MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THE TRIBUTARY AREAS OF THOSE BMP'S.
9. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMP CONTROLS MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OF THE BMP'S MUST BE STABILIZED IMMEDIATELY.



EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1"=20'



- 10. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE OF CONSTRUCTION. EACH STAGE SHALL BE COMPLETED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE.
11. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE, THE OPERATOR SHALL STABILIZE ANY AREAS DISTURBED BY THE ACTIVITIES. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE SPECIFIED RATES. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE REDISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE PERMANENT VEGETATIVE STABILIZATION SPECIFICATIONS.
12. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.
13. SEDIMENT MUST BE REMOVED FROM INLET WATER QUALITY INSERTS AFTER EACH RUNOFF EVENT.
14. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMP'S MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT CONTROL BMP'S AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGARDINGS, RESEEDING, REMULCHING, AND RENETTING, MUST BE PERFORMED IMMEDIATELY. IF EROSION AND SEDIMENT CONTROL BMP'S FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMP'S, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
15. THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE, OR DISPOSE OF ALL BUILDING MATERIALS AND WASTE IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 280.1 ET SEQ., 271.1 ET SEQ., AND 287.1 ET SEQ. THE CONTRACTOR SHALL NOT ILLEGALLY BURY, DUMP, OR DISCHARGE ANY BUILDING MATERIAL OR WASTES AT THE SITE.

GENERAL SEEDING NOTES

- 1. REDISTRIBUTE 6" OF STOCKPILED TOPSOIL AND PREPARE A GOOD CRUMBLY SEEDBED THAT IS TILLED 6-8 INCHES DEEP, WELL FIRMED AND LEVELED AFTER TILLING.

- 2. APPLY FERTILIZER AND LIME UNIFORMLY AND WORK INTO THE TOP 3 TO 4 INCHES OF SOIL.
3. AFTER ALL MATERIALS HAVE BEEN WORKED IN, FIRM UP THE SOIL BY ROLLING TO ASSURE THAT NO SOFT SPOTS REMAIN THAT WOULD SETTLE LATER ON.
4. WITH A WIDE-TOOTHED RAKE OR TINE-HARROW, RAKE THE AREA INTO A CRUMBLY STATE WITH ABOUT AN INCH OF LOOSE SOIL AT SURFACE.
5. APPLY THE SEED WITH A DROP OR CYCLONE SPREADER, FOR SLOPES OF 4:1 OR GREATER, HYDRO-SEEDING IS RECOMMENDED, STRAW MULCHING AND ANCHORING IS REQUIRED. APPLY SEED DURING GERMINATION PERIODS, MARCH 15TH - MAY 15TH, AS WEATHER PERMITS.

SEEDING SPECIFICATIONS

- TEMPORARY MEASURES:
PREPARATIONS - APPLY 1 TON PER ACRE OF AGRICULTURAL GRADE LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDES) TO ESTABLISH A PH OF 6.5 TO 6.8.
APPLY FERTILIZER @ 150 LBS. PER ACRE USING 10-20-20 OR EQUIVALENT.
SEEDING - APPLY 50% ANNUAL RYEGRASS AND 50% WINTER RYEGRASS AT A RATE OF 10 LBS. PER 1,000 SQUARE FEET. MULCH TEMPORARY SEEDING AT A RATE OF 3 TONS PER ACRE. DURING NON-GERMINATION PERIODS APPLY A TACKING AGENT WITH THE MULCH.
PERMANENT MEASURES:
PREPARATIONS - APPLY 4 TONS PER ACRE OF AGRICULTURAL GRADE LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDES) TO ESTABLISH A PH OF 6.5 TO 6.8.
APPLY FERTILIZER @ 930 LBS. PER ACRE USING 10-20-20 OR EQUIVALENT.
SEEDING - 10% PERENNIAL RYEGRASS, 60% KENTUCKY 31 TALL FESCUE, AND 30% REDTOP AT A RATE OF 220 LBS. PER ACRE. MULCH AT A RATE OF 3 TONS PER ACRE. APPLY WIRE NETTING WITH PEGS AT 4 FOOT INTERVALS INTERLACED WITH TWINE ON ALL SLOPES EXCEEDING 4:1.

STORMWATER MANAGEMENT AGREEMENT

I ACKNOWLEDGE THAT THE STORMWATER MANAGEMENT SYSTEM TO BE A PERMANENT FEATURE THAT CAN BE ALTERED OR REMOVED ONLY AFTER APPROVAL OF A REVISED PLAN BY THE TOWNSHIP.

SIGNATURE OF OWNER DATE

ENGINEER'S CERTIFICATION

I, ADAM B. POWELL, P.E., ON THIS DATE HEREBY CERTIFY THAT THE DRAINAGE PLAN MEETS ALL DESIGN STANDARDS AND CRITERIA OF THE TOWNSHIP STORMWATER MANAGEMENT ORDINANCE.

SIGNATURE OF ENGINEER DATE

PE079540 P.E. LICENSE NUMBER

ENGINEER'S CERTIFICATION

I HEREBY CERTIFY THAT THESE PLANS ARE IN CONFORMANCE WITH ENGINEERING, ZONING, BUILDING, SANITATION, AND OTHER APPLICABLE ORDINANCES OF THIS TOWNSHIP, AND HAVE BEEN PREPARED IN ACCORDANCE WITH ACT 367 OF THE COMMONWEALTH OF PENNSYLVANIA, KNOWN AS THE 'ENGINEER, LAND SURVEYOR, AND GEOLOGIST REGISTRATION LAW' (P.L. 913, NO. 367), AS AMENDED.

SIGNATURE OF ENGINEER DATE

PE079540 P.E. LICENSE NUMBER

DEMOLITION NOTE

BUILDINGS, PAVEMENT, CURBING, TREES, LIGHTS, TRANSFORMERS, POLES, CONCRETE PADS, DRAINAGE PIPING AND OTHER OBJECTS INTERFERING WITH THE SITE IMPROVEMENTS SHALL BE REMOVED AND DISPOSED OF PROPERLY. ALSO ALL UTILITIES SERVICES TO AND ON THE SITE SHALL BE PERMANENTLY TERMINATED OR TEMPORARILY SHUT OFF IN ACCORDANCE WITH UTILITY COMPANY OR AUTHORITY REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR ANY AND ALL DEMOLITION, INCLUDING HAZARDOUS MATERIAL IN ACCORDANCE WITH PADEP REQUIREMENTS. ALL MATERIALS AND WASTES SHALL BE DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET. SEQ. AND 287.1 ET. SEQ.

SOILS TABLE

(FROM PENN STATE COLLEGE OF AGRICULTURAL SCIENCES COOPERATIVE EXTENSION SOILMAP VERSION 2)

SOIL TYPE: Me-Made Land, schist and gneiss materials
DRAINAGE CLASS: Well Drained
SLOPE RANGE: 0-15
HYDROLOGIC GROUP: B
BEDROCK DEPTH: Very Deep
SEASONAL WATER TABLE: > 60 inches
FLOODING POTENTIAL: None
PROFILE PERMEABILITY: Moderate
SOIL TYPE: GeC3-Glenclg Channery Silt Loom, 8-15% slopes
DRAINAGE CLASS: Well Drained
SLOPE RANGE: 8-15
HYDROLOGIC GROUP: B
BEDROCK DEPTH: Very Deep
SEASONAL WATER TABLE: > 60 inches
FLOODING POTENTIAL: None
PROFILE PERMEABILITY: Moderate

CHAPTER 93 CLASSIFICATION:
THE PROPERTY'S RECEIVING WATERCOURSE IS DARBY CREEK, AND THE CHAPTER 93 CLASSIFICATION IS TSF, MF.

CALL BEFORE YOU DIG!

PENNSYLVANIA LAW REQUIRES THREE (3) WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND TEN (10) WORKING DAYS FOR DESIGN STAGE. UTILITY INFORMATION IDENTIFIED THROUGH THE ONE-CALL PROCESS IS VALID FOR 90 DAYS FROM THE DATE OF THE CALL. Pennsylvania One Call System, Inc. 800-242-1776 SERIAL# 20152220485 ONE-CALL DATE: 2015.03.10

GRADING PERMIT FOR MARPLE POLICE COMPLEX

DRAWING INDEX

Table with 2 columns: SHEET NO. and DESCRIPTION. Rows include GP-1 EXISTING CONDITIONS AND DEMOLITION PLAN, GP-2 GRADING AND UTILITIES, and GP-3 DETAILS.

LINN ARCHITECTS
ARCHITECTURE
ENGINEERING
SITE PLANNING
INTERIOR DESIGN
140 N. PROVIDENCE ROAD
MEDIA, PENNSYLVANIA 19063
TEL: 610-566-7044
FAX: 610-566-9258

EXISTING CONDITIONS AND DEMOLITION PLAN FOR MARPLE POLICE COMPLEX
1001 SUSSEX BOULEVARD
MARPLE TWP. DELAWARE COUNTY, PA

Table with columns: DATE, REVISIONS, NO., DESCRIPTION, DATE. Includes drawing details like SCALE: 1"=20', DRAWN BY: SFP, CHECKED BY: SFP, and SHEET NO. 3 OF 3.

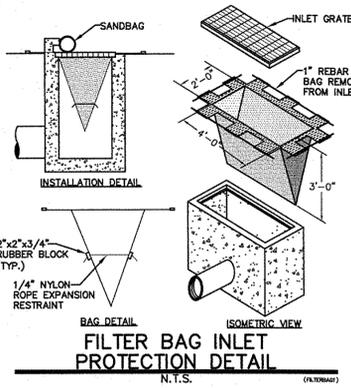
GP-1



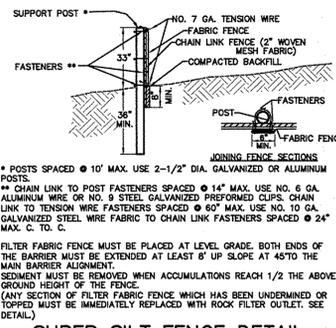
Plotlet: 1-21-16 @11:05am By: opowell

**EROSION CONTROL AND MAINTENANCE NOTES**

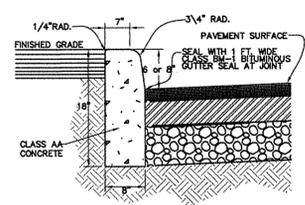
- ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
- AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE PCSM PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN.
- AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
- CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPs SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
- AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
- IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT.
- ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 P.A. CODE 260.1 ET SEQ., 271.1, AND 287.1 ET SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR LEAK OF A HAZARDOUS SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.
- ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.
- UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPs SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPs AFTER EACH RAINFALL EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RETENING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPs FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPs, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
- SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEEPED INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
- ALL SEDIMENT REMOVED FROM BMPs SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
- AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 6 INCHES - 6 TO 10 INCHES ON COMPACTED SOILS - PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
- ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
- ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
- FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOIL, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
- FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
- FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
- ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE.
- IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
- PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
- E&S BMPs SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP.
- AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPs MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPs. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPs SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
- FAILURE TO CORRECTLY INSTALL E&S BMPs, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPs MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.
- THE PROJECT'S RECEIVING WATERCOURSE IS DARBY CREEK, AND THE CHAPTER 93 CLASSIFICATION IS TSF, MF.



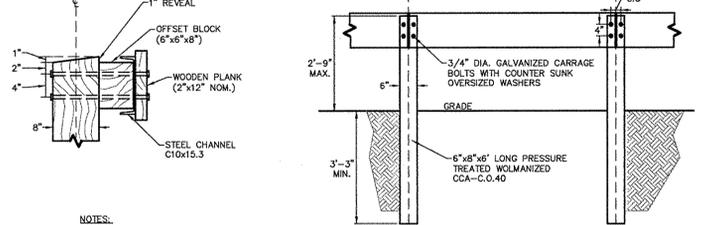
**FILTER BAG INLET PROTECTION DETAIL**  
N.T.S.



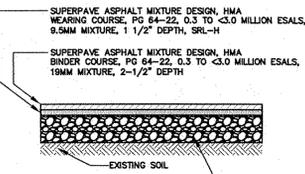
**SUPER SILT FENCE DETAIL**  
NOT TO SCALE



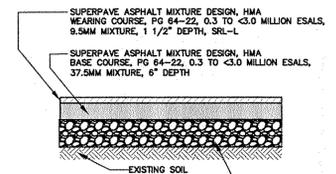
**CONCRETE CURB DETAIL**  
NOT TO SCALE



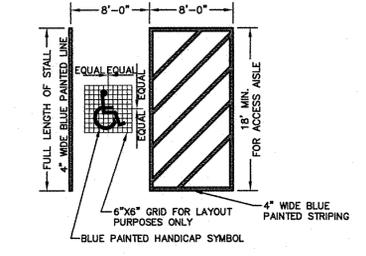
**WOODEN GUIDE RAIL**  
NOT TO SCALE



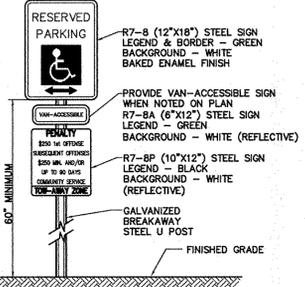
**PARKING LOT PAVING SECTION DETAIL**  
NOT TO SCALE



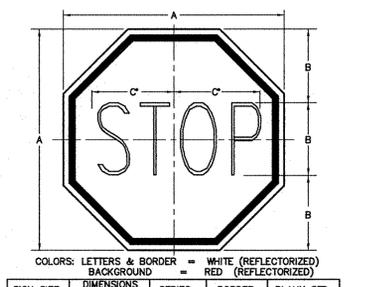
**ENTRANCE AND DRIVEWAY PAVING SECTION DETAIL**  
NOT TO SCALE



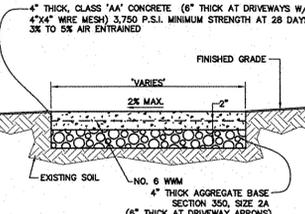
**VAN ACCESSIBLE HANDICAPPED PAINTED MARKING**  
NOT TO SCALE



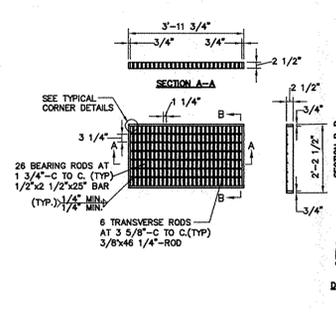
**HANDICAPPED PARKING SIGN**  
NOT TO SCALE



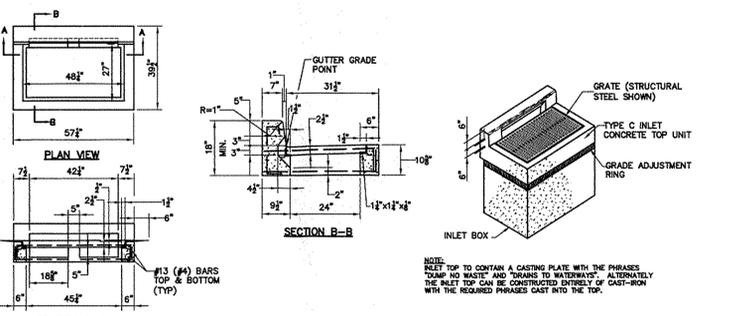
**R1-1 SIGN DETAIL**  
NOT TO SCALE



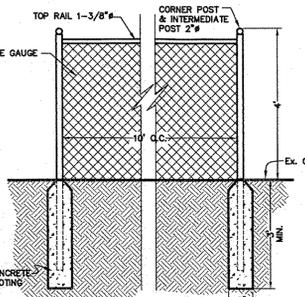
**CONCRETE SIDEWALK SECTION**  
NOT TO SCALE



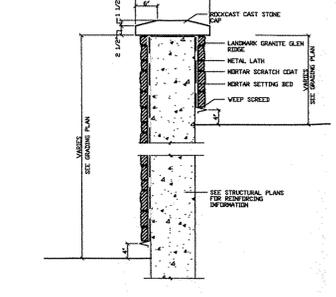
**BICYCLE SAFE GRATE DETAIL**  
NOT TO SCALE



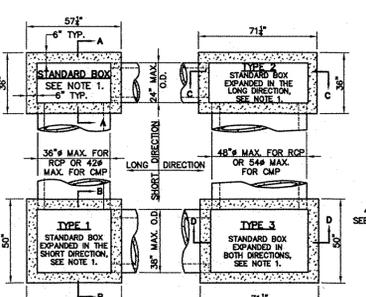
**TYPE 'C' INLET TOP**  
NOT TO SCALE



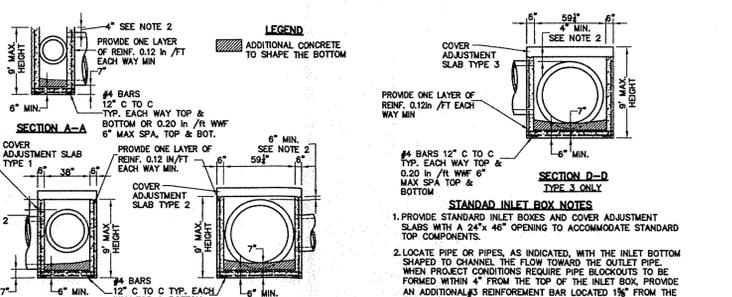
**4 FT CHAIN LINK FENCE DETAIL**  
NOT TO SCALE



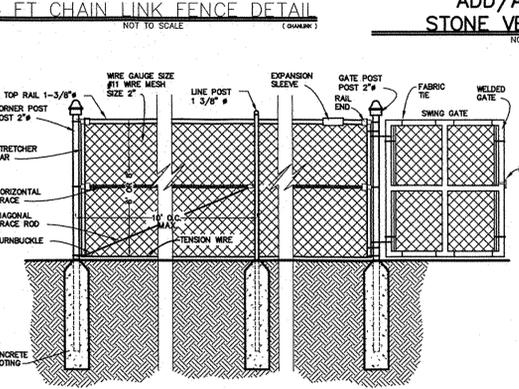
**ADD/ALTERNATE STONE VENEER DETAIL**  
NOT TO SCALE



**PLAN - INLET BOXES**  
NOT TO SCALE



**STANDARD INLET BOX**  
NOT TO SCALE



**6 FT TO 8 FT CHAIN LINK FENCE DETAIL**  
NOT TO SCALE

**LINN ARCHITECTS**  
140 N. PROVIDENCE ROAD  
MEDIA, PENNSYLVANIA 19063  
ARCHITECTURE  
ENGINEERING  
SITE PLANNING  
INTERIOR DESIGN  
TEL: 610-566-7044  
FAX: 610-566-3258

**DETAILS FOR**  
MARPLE POLICE COMPLEX  
1001 SUSSEX BOULEVARD  
DELAWARE COUNTY, PA  
MARPLE TWP.

DATE	REVISIONS	NO.	DESCRIPTION	DATE
11/09/15	SCALE	1	REVISED SEQUENCE OF CONSTRUCTION	01.15.16
	DRAWN BY	2	FENCE INFORMATION AND DETAILS PROVIDED	01.21.16
	CHECKED BY	3		
	PROJ. NO.	4		

SHEET NO. **GP-3** OF 3