DOP 11   SYSTEM CONCINCTOR SPECIOR	DDP C2.00  SITE DEMOLITION PLAN  DDP C4.00  UTILITY DISPOSITION PLAN  DDP C5.10  UTILITY COMPOSITE PLAN  DDP C5.10  UTILITY COMPOSITE PLAN  DDP C5.10  UTILITY COMPOSITE PLAN  DDP C5.10  STORM DRAIN & GRADING PLAN  DDP C7.10  SANITARY & WATER PROFILES & DETAILS  DDP C7.10  STORM DRAIN PROFILES & DETAILS  DDP C7.11  STORM DRAIN PROFILES & DETAILS  DDP C7.20  TELECOM PROFILES & DETAILS  DDP C7.20  TELECOM PROFILES & DETAILS  DDP C7.20  DDP C7.20  ELECTRIC PROFILES & DETAILS  DDP C7.20  DDP C8.20  EROSION & SEDIMENT CONTROL PLAN  DDP C8.00  EROSION & SEDIMENT CONTROL DETAILS  DDP C8.20  EROSION & SEDIMENT CONTROL DETAILS  DDP C8.20  EROSION & SEDIMENT CONTROL DETAILS  DDP F1.01  GENERAL AND TECHNICAL NOTES  DDP F1.02  GENERAL AND TECHNICAL NOTES  DDP F1.03  GENERAL AND TECHNICAL NOTES  DDP F1.10  DDP F1.11  GEOLOGIC SECTIONS  DDP F1.12  PRE-LOAD ARREAS PLAN  DDP F1.14  FOUNDATION EXCAVATION AREAS PLAN  DDP F1.15  CONSTRUCTION ACCESS ROADS PLAN  DDP F1.16  DDP F1.17  DEMOLITION OF HONEYWELL OFFICES SECTIONS  DDP F1.20  SHEET PILE WALL CONSTRUCTION SEQUENCE  DDP F1.20  SHEET PILE WALL CONSTRUCTION SEQUENCE  DDP F1.21  SHEET PILE WALL CONSTRUCTION SEQUENCE  DDP F1.30  DDP F1.31  DDP F1.44  FOUNDATION PLAN  DDP F1.55  SHEET PILE WALL TYPICAL DETAILS  DDP F1.30  DDP F1.41  FOUNDATION PLAN  DDP F1.42  SHEET PILE WALL TYPICAL DETAILS  DDP F1.31  DDP F1.43  FOUNDATION PLAN  DDP F1.44  FOUNDATION PLAN  DDP F1.55  SHEET PILE WALL TYPICAL DETAILS  DDP F1.40  DDP F1.50  FOUNDATION PLAN  DDP F1.51  FOUNDATION PLAN  DDP F1.51  DDP F1.52  SHEET PILE WALL TYPICAL DETAILS  DDP F1.54  FOUNDATION PLAN  DDP F1.55  SHEET PILE WALL TYPICAL DETAILS  DDP F1.50  FOUNDATION DETAILS AND SECTIONS  DDP F1.51  DDP F1.50  FOUNDATION DETAILS AND SECTIONS  DDP F1.51  FOUNDATION DETAILS AND SECTIONS  DDP F1.52  FOUNDATION DETAILS AND SECTIONS  DDP F1.53  FOUNDATION DETAILS AND SECTIONS  DDP F1.54  FOUNDATION DETAILS AND SECTIONS  DDP F1.50  FOUNDATION DETAILS AND SECTIONS  DDP F1.50  FOUNDATION DETAILS AND SECTIONS  DDP F1.51  FOUNDATION DETAILS AN	DDP C2.00  SITE DEMOLITION PLAN  DDP C3.00  UTILITY DISPOSITION PLAN  DDP C5.10  UTILITY OSPOSITION PLAN  DDP C5.10  UTILITY OSPOSITION PLAN  DDP C5.10  UTILITY COMPOSITE PLAN  DDP C5.10  STORM DRAIN & GRADING PLAN  DDP C7.10  STORM DRAIN & GRADING PLAN  DDP C7.10  STORM DRAIN PROFILES & DETAILS  DDP C7.11  STORM DRAIN PROFILES & DETAILS  DDP C7.12  STORM DRAIN PROFILES & DETAILS  DDP C7.20  TELECOM PROFILES & DETAILS  DDP C7.20  TELECOM PROFILES & DETAILS  DDP C7.20  DDP C7.20  ELECTRIC PROFILES & DETAILS  DDP C7.40  GAS PROFILES & DETAILS  DDP C8.00  EROSION & SEDIMENT CONTROL DETAILS  DDP C8.00  EROSION & SEDIMENT CONTROL DETAILS  DDP C8.20  EROSION & SEDIMENT CONTROL DETAILS  DDP F1.01  GENERAL AND TECHNICAL NOTES  DDP F1.02  GENERAL AND TECHNICAL NOTES  DDP F1.03  GENERAL AND TECHNICAL NOTES  DDP F1.03  GENERAL AND TECHNICAL NOTES  DDP F1.11  GEOLOGIC SECTIONS  DDP F1.12  PRE-LOAD AREAS PLAN  DDP F1.14  FOUNDATION EXCAVATION AREAS PLAN  DDP F1.15  DDP F1.16  DDP F1.17  DEMOLITION OF HONEYWELL OFFICES SECTIONS  DDP F1.17  DDP F1.18  DDP F1.19  DEMOLITION OF HONEYWELL OFFICES SECTIONS  DDP F1.20  SHEET PILE BARRIER WALL PLAN  DDP F1.21  SHEET PILE WALL CONSTRUCTION SEQUENCE  DDP F1.23  SHEET PILE WALL CONSTRUCTION SEQUENCE  DDP F1.30  DDP F1.31  CONSTRUCTION PLAN  DDP F1.31  DDP F1.32  SHEET PILE WALL CONSTRUCTION SEQUENCE  DDP F1.33  FILE OFFICE AND AREAS PLAN  DDP F1.34  FOUNDATION PARTIAL PLAN  DDP F1.35  DDP F1.45  FOUNDATION PARTIAL PLAN  DDP F1.45  FOUNDATION PARTIAL PLAN  DDP F1.55  FILE OCHORITON PARTIAL PLAN  DDP F1.56  DDP F1.57  FOUNDATION DETAILS AND SECTIONS  DDP F1.59  FILE OCHORITON PARTIAL PLAN  DDP F1.50  FOUNDATION DETAILS AND SECTIONS  DDP F1.51  FOUNDATION DETAILS AND SECTIONS  DDP F1.52  FOUNDATION DETAILS AND SECTIONS  DDP F1.53  FOUNDATION DETAILS AND SECTIONS  DDP F1.54  FOUNDATION DETAILS AND SECTIONS  DDP F1.55  FILE OCHORITON DETAILS AND SECTIONS  DDP F1.50  FOUNDATION DETAILS AND SECTIONS  DDP F1.51  FOUNDATION DETAILS AND SECTIONS  DDP F1.50  FILE OFFICE AND AND THE PARTIAL PLAN	DDP C2.00  SITE DEMOLITION PLAN  DDP C3.00  DDP C3.00  SITE PLAN (EXELON)  DDP C5.10  UTILITY DESPISION PLAN  DDP C5.10  UTILITY COMPOSITE PLAN  DDP C5.10  DDP C5.20  STORM DRAIN & GRADING PLAN  DDP C7.10  SANITARY & WATER PROFILES & DETAILS  DDP C7.10  STORM DRAIN PROFILES & DETAILS  DDP C7.10  STORM DRAIN PROFILES & DETAILS  DDP C7.10  STORM DRAIN PROFILES & DETAILS  DDP C7.10  DDP C7.20  TELECOM PROFILES & DETAILS  DDP C7.20  TELECOM PROFILES & DETAILS  DDP C7.20  TELECOM PROFILES & DETAILS  DDP C7.40  GAS PROFILES & DETAILS  DDP C8.00  EROSION & SEDIMENT CONTROL DETAILS  DDP C8.00  EROSION & SEDIMENT CONTROL DETAILS  DDP C8.20  EROSION & SEDIMENT CONTROL DETAILS  DDP F1.01  GENERAL AND TECHNICAL NOTES  DDP F1.02  GENERAL AND TECHNICAL NOTES  DDP F1.03  GENERAL AND TECHNICAL NOTES  DDP F1.03  GENERAL AND TECHNICAL NOTES  DDP F1.11  GEOLOGIC SECTIONS  DDP F1.12  PRE-LOAD AREAS PLAN  DDP F1.14  FOUNDATION EXCAVATION AREAS PLAN  DDP F1.15  CONSTRUCTION ACCESS ROADS PLAN  DDP F1.16  DDP F1.17  DEMOLITION OF HONEYWELL OFFICES SECTIONS  DDP F1.20  SHEET PILE BARRIER WALL PLAN  DDP F1.21  SHEET PILE WALL CONSTRUCTION SEQUENCE  DDP F1.22  SHEET PILE WALL CONSTRUCTION SEQUENCE  DDP F1.23  SHEET PILE WALL TYPICAL DETAILS  DDP F1.30  DDP F1.31  CONSTRUCTION PLAN  DDP F1.31  DDP F1.31  DDP F1.32  SHEET PILE WALL TYPICAL DETAILS  DDP F1.32  SHEET PILE WALL TYPICAL DETAILS  DDP F1.34  FOUNDATION PARTIAL PLAN  DDP F1.35  DDP F1.36  DDP F1.37  FOUNDATION PARTIAL PLAN  DDP F1.36  DDP F1.37  FOUNDATION PARTIAL PLAN  DDP F1.37  DDP F1.36  DDP F1.37  FOUNDATION DETAILS AND SECTIONS  DDP F1.39  DDP F1.40  DDP F1.51  FOUNDATION DETAILS AND SECTIONS  DDP F1.52  DDP F1.53  FOUNDATION DETAILS AND SECTIONS  DDP F1.54  FOUNDATION DETAILS AND SECTIONS  DDP F1.55  FOUNDATION DETAILS AND SECTIONS  DDP F1.50  DDP F1.51  FOUNDATION DETAILS AND SECTIONS  DDP F1.51  FOUNDATION DETAILS AND SECTIONS  DDP F1.52  FOUNDATION DETAILS AND SECTIONS  DDP F1.53  FOUNDATION DETAILS AND SECTIONS  DDP F1.54  FOUNDATION DETAILS AND SECTIONS  DDP F1.55  FI	DDP C2.00  SITE DEMOLITION PLAN  DDP C3.00  DDP C3.00  DDP C3.00  JUTILITY ISPOSTION PLAN  DDP C5.10  JUTILITY SOPSSTION PLAN  DDP C5.10  JUTILITY COMPOSITE PLAN  DDP C5.20  STORM DRAIN & GRADING PLAN  DDP C7.10  STORM DRAIN & GRADING PLAN  DDP C7.10  STORM DRAIN PROFILES & DETAILS  DDP C7.10  STORM DRAIN PROFILES & DETAILS  DDP C7.11  STORM DRAIN PROFILES & DETAILS  DDP C7.12  TELECOM PROFILES & DETAILS  DDP C7.20  TELECOM PROFILES & DETAILS  DDP C7.20  TELECOM PROFILES & DETAILS  DDP C7.40  GAS PROFILES & DETAILS  DDP C7.40  GAS PROFILES & DETAILS  DDP C8.00  EROSION & SEDIMENT CONTROL DETAILS  DDP C8.20  EROSION & SEDIMENT CONTROL DETAILS  DDP C8.20  EROSION & SEDIMENT CONTROL DETAILS  DDP F1.01  GENERAL AND TECHNICAL NOTES  DDP F1.02  GENERAL AND TECHNICAL NOTES  DDP F1.03  GENERAL AND TECHNICAL NOTES  DDP F1.03  GENERAL AND TECHNICAL NOTES  DDP F1.10  BORING LOCATION PLAN  DDP F1.11  GEOLOGIC SECTIONS  DDP F1.12  PRE-LOAD ARRAS PLAN  DDP F1.14  FOUNDATION EXCAVATION AREAS PLAN  DDP F1.15  CONSTRUCTION ACCESS ROADS PLAN  DDP F1.16  DDP F1.17  DEMOLITION OF HONEYWELL OFFICES SECTIONS  DDP F1.20  SHEET PILE BARRIER WALL PLAN  DDP F1.21  DDP F1.22  SHEET PILE WALL CONSTRUCTION SEQUENCE  DDP F1.23  SHEET PILE WALL CONSTRUCTION SEQUENCE  DDP F1.25  SHEET PILE WALL CONSTRUCTION SEQUENCE  DDP F1.26  DDP F1.27  DEMOLITION PARTIAL PLAN  DDP F1.28  SHEET PILE WALL CONSTRUCTION SEQUENCE  DDP F1.29  SHEET PILE WALL TYPICAL DETAILS  DDP F1.30  DDP F1.41  FOUNDATION PARTIAL PLAN  DDP F1.41  FOUNDATION PARTIAL PLAN  DDP F1.51  FOUNDATION DETAILS AND SECTIONS  DDP F1.52  DDP F1.54  FOUNDATION DETAILS AND SECTIONS  DDP F1.55  PILE SCHEDULE  DDP F1.57  FOUNDATION DETAILS AND SECTIONS  DDP F1.59  FILE SCHEDULE  DDP F1.50  DDP F1.51  FOUNDATION DETAILS AND SECTIONS  DDP F1.51  FOUNDATION DETAILS AND SECTIONS  DDP F1.52  FOUNDATION DETAILS AND SECTIONS  DDP F1.54  FOUNDATION DETAILS AND SECTIONS  DDP F1.55  FILE SCHEDULE  DDP F1.50  DDP F1.51  FOUNDATION DETAILS AND SECTIONS  DDP F1.50  PILE SCHEDULE  DDP F1.50  DDP F1.51  FOUN	DDP C2.00  SITE DEMOLITION PLAN  DDP C4.00  SITE PLAN (CSELON)  DDP C4.00  SITE PLAN (CSELON)  DDP C5.10  UTILITY DESPOSITION PLAN  DDP C5.10  UTILITY DESPOSITION PLAN  DDP C5.10  UTILITY COMPOSITE PLAN  DDP C5.20  STORM DRAIN & GRADING PLAN  DDP C7.00  SANITARY & WATER PROFILES & DETAILS  DDP C7.10  STORM DRAIN PROFILES & DETAILS  DDP C7.10  STORM DRAIN PROFILES & DETAILS  DDP C7.20  TELECOM PROFILES & DETAILS  DDP C7.20  TELECOM PROFILES & DETAILS  DDP C7.40  GAS PROFILES & DETAILS  DDP C7.40  GAS PROFILES & DETAILS  DDP C3.00  EROSION & SEDIMENT CONTROL DETAILS  DDP C8.10  EROSION & SEDIMENT CONTROL DETAILS  DDP C8.10  GENERAL AND TECHNICAL NOTES  DDP F1.01  GENERAL AND TECHNICAL NOTES  DDP F1.03  GENERAL AND TECHNICAL NOTES  DDP F1.03  GENERAL AND TECHNICAL NOTES  DDP F1.10  DDP F1.11  GEOLOGIC SECTIONS  DDP F1.12  PRE-LOAD AREAS PLAN  DDP F1.13  POTENTIAL OBSTRUCTIONS PLAN  DDP F1.14  POTENTIAL OBSTRUCTIONS PLAN  DDP F1.15  CONSTRUCTION ACCESS ROADS PLAN  DDP F1.16  DEMOLITION OF HONEYWELL OFFICES PLAN  DDP F1.17  DDP F1.17  DEMOLITION OF HONEYWELL OFFICES SECTIONS  DDP F1.21  SHEET PILE WALL CONSTRUCTION SEQUENCE  DDP F1.22  SHEET PILE WALL CONSTRUCTION SEQUENCE  DDP F1.23  SHEET PILE WALL CONSTRUCTION SEQUENCE  DDP F1.24  SHEET PILE WALL CONSTRUCTION SEQUENCE  DDP F1.25  SHEET PILE WALL CONSTRUCTION SEQUENCE  DDP F1.26  DDP F1.37  CONCENTRIC PILE WALL CONSTRUCTION SEQUENCE  DDP F1.27  DDP F1.39  THE WALL CONSTRUCTION SEQUENCE  DDP F1.30  DDP F1.41  FOUNDATION DETAILS AND SECTIONS  DDP F1.51  CONCENTRIC PILE WALL CONSTRUCTION SEQUENCE  DDP F1.51  FOUNDATION PARTIAL PLAN  DDP F1.51  FOUNDATION PARTIAL PLAN  DDP F1.51  FOUNDATION PARTIAL PLAN  DDP F1.52  SHEET PILE WALL CONSTRUCTION SEQUENCE  DDP F1.31  CONCENTRIC PILE WALL CONSTRUCTION SEQUENCE  DDP F1.32  DDP F1.43  FOUNDATION PARTIAL PLAN  DDP F1.55  FOUNDATION PARTIAL PLAN  DDP F1.51  FOUNDATION PARTIAL PLAN  DDP F1.51  FOUNDATION PARTIAL PLAN  DDP F1.51  FOUNDATION PARTIAL PLAN  DDP F1.53  FOUNDATION PARTIAL PLAN  DDP F1.54  FOUNDATION PARTIAL PLAN  DD	DDP C2.00  SITE DEMOLITION PLAN  DDP C4.00  UTILITY DISPOSITION PLAN  DDP C5.10  UTILITY COMPOSITE PLAN  DDP C5.10  UTILITY COMPOSITE PLAN  DDP C5.10  UTILITY COMPOSITE PLAN  DDP C5.10  STORM DRAIN & GRADING PLAN  DDP C7.10  SANITARY & WATER PROFILES & DETAILS  DDP C7.10  STORM DRAIN PROFILES & DETAILS  DDP C7.11  STORM DRAIN PROFILES & DETAILS  DDP C7.20  TELECOM PROFILES & DETAILS  DDP C7.20  TELECOM PROFILES & DETAILS  DDP C7.20  DDP C7.20  ELECTRIC PROFILES & DETAILS  DDP C7.20  DDP C8.20  EROSION & SEDIMENT CONTROL PLAN  DDP C8.00  EROSION & SEDIMENT CONTROL DETAILS  DDP C8.20  EROSION & SEDIMENT CONTROL DETAILS  DDP C8.20  EROSION & SEDIMENT CONTROL DETAILS  DDP F1.01  GENERAL AND TECHNICAL NOTES  DDP F1.02  GENERAL AND TECHNICAL NOTES  DDP F1.03  GENERAL AND TECHNICAL NOTES  DDP F1.10  DDP F1.11  GEOLOGIC SECTIONS  DDP F1.12  PRE-LOAD ARREAS PLAN  DDP F1.14  FOUNDATION EXCAVATION AREAS PLAN  DDP F1.15  CONSTRUCTION ACCESS ROADS PLAN  DDP F1.16  DDP F1.17  DEMOLITION OF HONEYWELL OFFICES SECTIONS  DDP F1.20  SHEET PILE WALL CONSTRUCTION SEQUENCE  DDP F1.20  SHEET PILE WALL CONSTRUCTION SEQUENCE  DDP F1.21  SHEET PILE WALL CONSTRUCTION SEQUENCE  DDP F1.30  DDP F1.31  DDP F1.44  FOUNDATION PLAN  DDP F1.55  SHEET PILE WALL TYPICAL DETAILS  DDP F1.30  DDP F1.41  FOUNDATION PLAN  DDP F1.42  SHEET PILE WALL TYPICAL DETAILS  DDP F1.31  DDP F1.43  FOUNDATION PLAN  DDP F1.44  FOUNDATION PLAN  DDP F1.55  SHEET PILE WALL TYPICAL DETAILS  DDP F1.40  DDP F1.50  FOUNDATION PLAN  DDP F1.51  FOUNDATION PLAN  DDP F1.51  DDP F1.52  SHEET PILE WALL TYPICAL DETAILS  DDP F1.54  FOUNDATION PLAN  DDP F1.55  SHEET PILE WALL TYPICAL DETAILS  DDP F1.50  FOUNDATION DETAILS AND SECTIONS  DDP F1.51  DDP F1.50  FOUNDATION DETAILS AND SECTIONS  DDP F1.51  FOUNDATION DETAILS AND SECTIONS  DDP F1.52  FOUNDATION DETAILS AND SECTIONS  DDP F1.53  FOUNDATION DETAILS AND SECTIONS  DDP F1.54  FOUNDATION DETAILS AND SECTIONS  DDP F1.50  FOUNDATION DETAILS AND SECTIONS  DDP F1.50  FOUNDATION DETAILS AND SECTIONS  DDP F1.51  FOUNDATION DETAILS AN	DDP A1.00.02 DDP A1.31.00 DDP C1.00	FLOOR PLAN - LEVEL 1  FLOOR PLAN - LEVEL 2  ENLARGED FLOOR PLANS - TRANSFER STATION  EXISTING CONDITION/SITE CONST. (MP)
DDP C5.20  STORM DRAIN & GRADING PLAN  DDP C7.00  SANTARY & WAITER PROFILES & DETAILS  DDP C7.10  STORM DRAIN PROFILES & DETAILS  DDP C7.11  STORM DRAIN PROFILES & DETAILS  DDP C7.20  TELECOM PROFILES & DETAILS  DDP C7.30  ELECTRIC PROFILES & DETAILS  DDP C7.30  DDP C7.30  ELECTRIC PROFILES & DETAILS  DDP C8.00  EROSION & SEDIMENT CONTROL PLAN  DDP C8.10  EROSION & SEDIMENT CONTROL PLAN  DDP C8.10  EROSION & SEDIMENT CONTROL DETAILS  DDP C8.20  EROSION & SEDIMENT CONTROL DETAILS  DDP C8.20  EROSION & SEDIMENT CONTROL DETAILS  DDP F1.01  GENERAL AND TECHNICAL NOTES  DDP F1.02  GENERAL AND TECHNICAL NOTES  DDP F1.10  BORING LOCATION PLAN  DDP F1.11  BORING LOCATION PLAN  DDP F1.12  PRE-LOAD AREAS PLAN  DDP F1.13  POTENTIAL OSSTRUCTIONS PLAN  DDP F1.14  FOUNDATION EXCAVATION AREAS PLAN  DDP F1.15  CONSTRUCTION OF HONEYWELL OFFICES SECTIONS  DDP F1.20  SHEET PILE BARRIER WALL PLAN  DDP F1.20  SHEET PILE WALL CONSTRUCTION SEQUENCE  DDP F1.20  SHEET PILE WALL CONSTRUCTION SEQUENCE  DDP F1.23  SHEET PILE WALL CONSTRUCTION SEQUENCE  DDP F1.30  DDP F1.31  CONCENTRIC PILE OFFICES SECTIONS  DDP F1.30  DDP F1.31  CONCENTRIC PILE WALL TYPICAL DETAILS  DDP F1.30  DDP F1.31  FOUNDATION PLAN  DDP F1.41  FOUNDATION PLAN  DDP F1.31  DDP F1.30  DDP F1.31  FOUNDATION PLAN  DDP F1.31  DDP F1.32  DDP F1.34  FOUNDATION PLAN  DDP F1.35  DDP F1.36  DDP F1.37  FOUNDATION PLAN  DDP F1.39  DDP F1.30  DDP F1.31  DDP F1.31  DDP F1.31  DDP F1.30  DDP F1.31  DDP F1.31  DDP F1.31  DDP F1.30  DDP F1.31  DDP F1.31  DDP F1.30  DDP F1.30  DDP F1.31  DDP F1.30  DDP F1.31  DDP F1.30  DDP F1.31  DDP F1.30  DDP F1.30  DDP F1.31  DDP F1.31  DDP F1.30  DDP F1.31  DDP F1.30  D	DDP C5.20  STORM DRAIN & GRADING PLAN  DDP C7.00  SANTARY & WAITER PROFILES & DETAILS  DDP C7.10  STORM DRAIN PROFILES & DETAILS  DDP C7.11  STORM DRAIN PROFILES & DETAILS  DDP C7.20  TELECOM PROFILES & DETAILS  DDP C7.30  ELECTRIC PROFILES & DETAILS  DDP C7.30  DDP C7.30  ELECTRIC PROFILES & DETAILS  DDP C8.00  EROSION & SEDIMENT CONTROL PLAN  DDP C8.10  EROSION & SEDIMENT CONTROL PLAN  DDP C8.10  EROSION & SEDIMENT CONTROL DETAILS  DDP C8.20  EROSION & SEDIMENT CONTROL DETAILS  DDP C8.20  EROSION & SEDIMENT CONTROL DETAILS  DDP F1.01  GENERAL AND TECHNICAL NOTES  DDP F1.02  GENERAL AND TECHNICAL NOTES  DDP F1.10  BORING LOCATION PLAN  DDP F1.11  BORING LOCATION PLAN  DDP F1.12  PRE-LOAD AREAS PLAN  DDP F1.13  POTENTIAL OSSTRUCTIONS PLAN  DDP F1.14  FOUNDATION EXCAVATION AREAS PLAN  DDP F1.15  CONSTRUCTION OF HONEYWELL OFFICES SECTIONS  DDP F1.20  SHEET PILE BARRIER WALL PLAN  DDP F1.20  SHEET PILE WALL CONSTRUCTION SEQUENCE  DDP F1.20  SHEET PILE WALL CONSTRUCTION SEQUENCE  DDP F1.23  SHEET PILE WALL CONSTRUCTION SEQUENCE  DDP F1.30  DDP F1.31  CONCENTRIC PILE OFFICES SECTIONS  DDP F1.30  DDP F1.31  CONCENTRIC PILE WALL TYPICAL DETAILS  DDP F1.30  DDP F1.31  FOUNDATION PLAN  DDP F1.41  FOUNDATION PLAN  DDP F1.31  DDP F1.30  DDP F1.31  FOUNDATION PLAN  DDP F1.31  DDP F1.32  DDP F1.34  FOUNDATION PLAN  DDP F1.35  DDP F1.36  DDP F1.37  FOUNDATION PLAN  DDP F1.39  DDP F1.30  DDP F1.31  DDP F1.31  DDP F1.31  DDP F1.30  DDP F1.31  DDP F1.31  DDP F1.31  DDP F1.30  DDP F1.31  DDP F1.31  DDP F1.30  DDP F1.30  DDP F1.31  DDP F1.30  DDP F1.31  DDP F1.30  DDP F1.31  DDP F1.30  DDP F1.30  DDP F1.31  DDP F1.31  DDP F1.30  DDP F1.31  DDP F1.30  D	DDP C5.20  STORM DRAIN & GRADING PLAN  DDP C7.00  SANTARY & WAITER PROFILES & DETAILS  DDP C7.10  STORM DRAIN PROFILES & DETAILS  DDP C7.11  STORM DRAIN PROFILES & DETAILS  DDP C7.20  TELECOM PROFILES & DETAILS  DDP C7.30  ELECTRIC PROFILES & DETAILS  DDP C7.30  DDP C7.30  ELECTRIC PROFILES & DETAILS  DDP C8.00  EROSION & SEDIMENT CONTROL PLAN  DDP C8.10  EROSION & SEDIMENT CONTROL PLAN  DDP C8.10  EROSION & SEDIMENT CONTROL DETAILS  DDP C8.20  EROSION & SEDIMENT CONTROL DETAILS  DDP C8.20  EROSION & SEDIMENT CONTROL DETAILS  DDP F1.01  GENERAL AND TECHNICAL NOTES  DDP F1.02  GENERAL AND TECHNICAL NOTES  DDP F1.10  BORING LOCATION PLAN  DDP F1.11  BORING LOCATION PLAN  DDP F1.12  PRE-LOAD AREAS PLAN  DDP F1.13  POTENTIAL OSSTRUCTIONS PLAN  DDP F1.14  FOUNDATION EXCAVATION AREAS PLAN  DDP F1.15  CONSTRUCTION OF HONEYWELL OFFICES SECTIONS  DDP F1.20  SHEET PILE BARRIER WALL PLAN  DDP F1.20  SHEET PILE WALL CONSTRUCTION SEQUENCE  DDP F1.20  SHEET PILE WALL CONSTRUCTION SEQUENCE  DDP F1.23  SHEET PILE WALL CONSTRUCTION SEQUENCE  DDP F1.30  DDP F1.31  CONCENTRIC PILE OFFICES SECTIONS  DDP F1.30  DDP F1.31  CONCENTRIC PILE WALL TYPICAL DETAILS  DDP F1.30  DDP F1.31  FOUNDATION PLAN  DDP F1.41  FOUNDATION PLAN  DDP F1.31  DDP F1.30  DDP F1.31  FOUNDATION PLAN  DDP F1.31  DDP F1.32  DDP F1.34  FOUNDATION PLAN  DDP F1.35  DDP F1.36  DDP F1.37  FOUNDATION PLAN  DDP F1.39  DDP F1.30  DDP F1.31  DDP F1.31  DDP F1.31  DDP F1.30  DDP F1.31  DDP F1.31  DDP F1.31  DDP F1.30  DDP F1.31  DDP F1.31  DDP F1.30  DDP F1.30  DDP F1.31  DDP F1.30  DDP F1.31  DDP F1.30  DDP F1.31  DDP F1.30  DDP F1.30  DDP F1.31  DDP F1.31  DDP F1.30  DDP F1.31  DDP F1.30  D	DDP C5.20  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PILE WALL CONSTRUCTION SEQUENCE  DDP F1.30  DDP F1.31  CONCENTRIC PILE OFFICES SECTIONS  DDP F1.30  DDP F1.31  CONCENTRIC PILE WALL TYPICAL DETAILS  DDP F1.30  DDP F1.31  FOUNDATION PLAN  DDP F1.41  FOUNDATION PLAN  DDP F1.31  DDP F1.30  DDP F1.31  FOUNDATION PLAN  DDP F1.31  DDP F1.32  DDP F1.34  FOUNDATION PLAN  DDP F1.35  DDP F1.36  DDP F1.37  FOUNDATION PLAN  DDP F1.39  DDP F1.30  DDP F1.31  DDP F1.31  DDP F1.31  DDP F1.30  DDP F1.31  DDP F1.31  DDP F1.31  DDP F1.30  DDP F1.31  DDP F1.31  DDP F1.30  DDP F1.30  DDP F1.31  DDP F1.30  DDP F1.31  DDP F1.30  DDP F1.31  DDP F1.30  DDP F1.30  DDP F1.31  DDP F1.31  DDP F1.30  DDP F1.31  DDP F1.30  D	DDP C5.20  STORM DRAIN & GRADING PLAN  DDP C7.00  SANTARY & WAITER PROFILES & DETAILS  DDP C7.10  STORM DRAIN PROFILES & DETAILS  DDP C7.11  STORM DRAIN PROFILES & DETAILS  DDP C7.20  TELECOM PROFILES & DETAILS  DDP C7.30  ELECTRIC PROFILES & DETAILS  DDP C7.30  DDP C7.30  ELECTRIC PROFILES & DETAILS  DDP C8.00  EROSION & SEDIMENT CONTROL PLAN  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DDP F1.37  FOUNDATION PLAN  DDP F1.39  DDP F1.30  DDP F1.31  DDP F1.31  DDP F1.31  DDP F1.30  DDP F1.31  DDP F1.31  DDP F1.31  DDP F1.30  DDP F1.31  DDP F1.31  DDP F1.30  DDP F1.30  DDP F1.31  DDP F1.30  DDP F1.31  DDP F1.30  DDP F1.31  DDP F1.30  DDP F1.30  DDP F1.31  DDP F1.31  DDP F1.30  DDP F1.31  DDP F1.30  D	DDP C5.20 STORM DRAIN & GRADING PLAN DDP C7.00 SANITARY & WATER PROFILES & DETAILS DDP C7.10 STORM DRAIN PROFILES & DETAILS DDP C7.11 STORM DRAIN PROFILES & DETAILS DDP C7.20 TELECOM PROFILES & DETAILS DDP C7.20 TELECOM PROFILES & DETAILS DDP C7.20 GAS PROFILES & DETAILS DDP C7.30 ELECTRIC PROFILES & DETAILS DDP C7.40 GAS PROFILES & DETAILS DDP C8.00 EROSION & SEDIMENT CONTROL PLAN DDP C8.10 EROSION & SEDIMENT CONTROL DETAILS DDP C8.10 EROSION & SEDIMENT CONTROL DETAILS DDP C8.10 EROSION & SEDIMENT CONTROL DETAILS DDP C9.20 EROSION & SEDIMENT CONTROL DETAILS DDP F1.01 GENERAL AND TECHNICAL NOTES DDP F1.02 GENERAL AND TECHNICAL NOTES DDP F1.03 GENERAL AND TECHNICAL NOTES DDP 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TRANSFER STATION OPERATION/CONTINGENCY PLAN AND DETAILS  DPP EN1.03 LEVEL 1 TS/HMS OPERATION/CONTINGENCY PLAN AND DETAILS (2 of 2)  DPP EN1.06 PILS PROME PREMANENT PIPING PLAN AND DETAILS (2 of 2)  DPP EN1.07 TRANSFER STATION PERMANENT AND TEMPORARY MODIFICATION SETAILS (2 of 2)  DPP EN1.08 TRANSFER STATION P	DDP C8.20 EROSION & SEDIMENT CONTROL GENERAL NOTES  DDP F1.01 GENERAL AND TECHNICAL NOTES  DDP F1.03 GENERAL AND TECHNICAL NOTES  DDP F1.10 BORING LOCATION PLAN  DDP F1.11 GEOLOGIC SECTIONS  DDP F1.12 PRE-LOAD AREAS PLAN  DDP F1.13 POTENTIAL OBSTRUCTIONS PLAN  DDP F1.14 FOUNDATION EXCAVATION AREAS PLAN  DDP F1.15 CONSTRUCTION ACCESS ROADS PLAN  DDP F1.16 DEMOLITION OF HONEYWELL OFFICES PLAN  DDP F1.17 DEMOLITION OF HONEYWELL OFFICES PLAN  DDP F1.21 MULTI MEDIA CAP DRAINAGE PLAN  DDP F1.22 SHEET PILE WALL CONSTRUCTION SEQUENCE  DDP F1.23 SHEET PILE WALL CONSTRUCTION SEQUENCE  DDP F1.24 SHEET PILE WALL CONSTRUCTION SEQUENCE  DDP F1.25 SHEET PILE WALL TYPICAL DETAILS  DDP F1.30 PILE 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DDP F1.43 DDP F1.44	FOUNDATION PARTIAL PLAN FOUNDATION PARTIAL PLAN	
DP F1.50	FOUNDATION FAITHALT LAN FOUNDATION DETAILS AND SECTIONS	
DDP F1.51	FOUNDATION DETAILS AND SECTIONS	
DP F1.52	FOUNDATION DETAILS AND SECTIONS	
DDP F1.53	FOUNDATION DETAILS AND SECTIONS	
DDP F1.54	FOUNDATION DETAILS AND SECTIONS	
DDP F1.55 DDP F1.60	PILE SCHEDULE DEVELOPMENT CAP PLAN	
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DPP EN1.01	ENVIRONMENTAL REMEDIATION SYSTEM IMPROVEMENT PLAN	
DPP EN1.02	TRANSFER STATION OPERATION AND SEQUENCING PLAN	
DPP EN1.03	LEVEL 1 TS/HMS OPERATION/CONTINGENCY PLAN AND DETAILS	
DPP EN1.04	LEVEL 2 TS/HMS OPERATION/CONTINGENCY PLAN AND DETAILS	
DPP EN1.05	VAULT MODIFICATION DETAILS  DIEZOMETED, HINCTION DOY AND OTHER MODIFICATION DETAILS (1 of 2)	
DPP EN1.06 DPP EN1.06.01	PIEZOMETER, JUNCTION BOX AND OTHER MODIFICATION DETAILS (1 of 2) PIEZOMETER, JUNCTION BOX AND OTHER MODIFICATION DETAILS (2 of 2)	
DPP EN1.00.01	TRANSFER STATION PERMANENT PIPING PLAN AND DETAILS	
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project
EXELON BLDG & PLAZA GARAGE

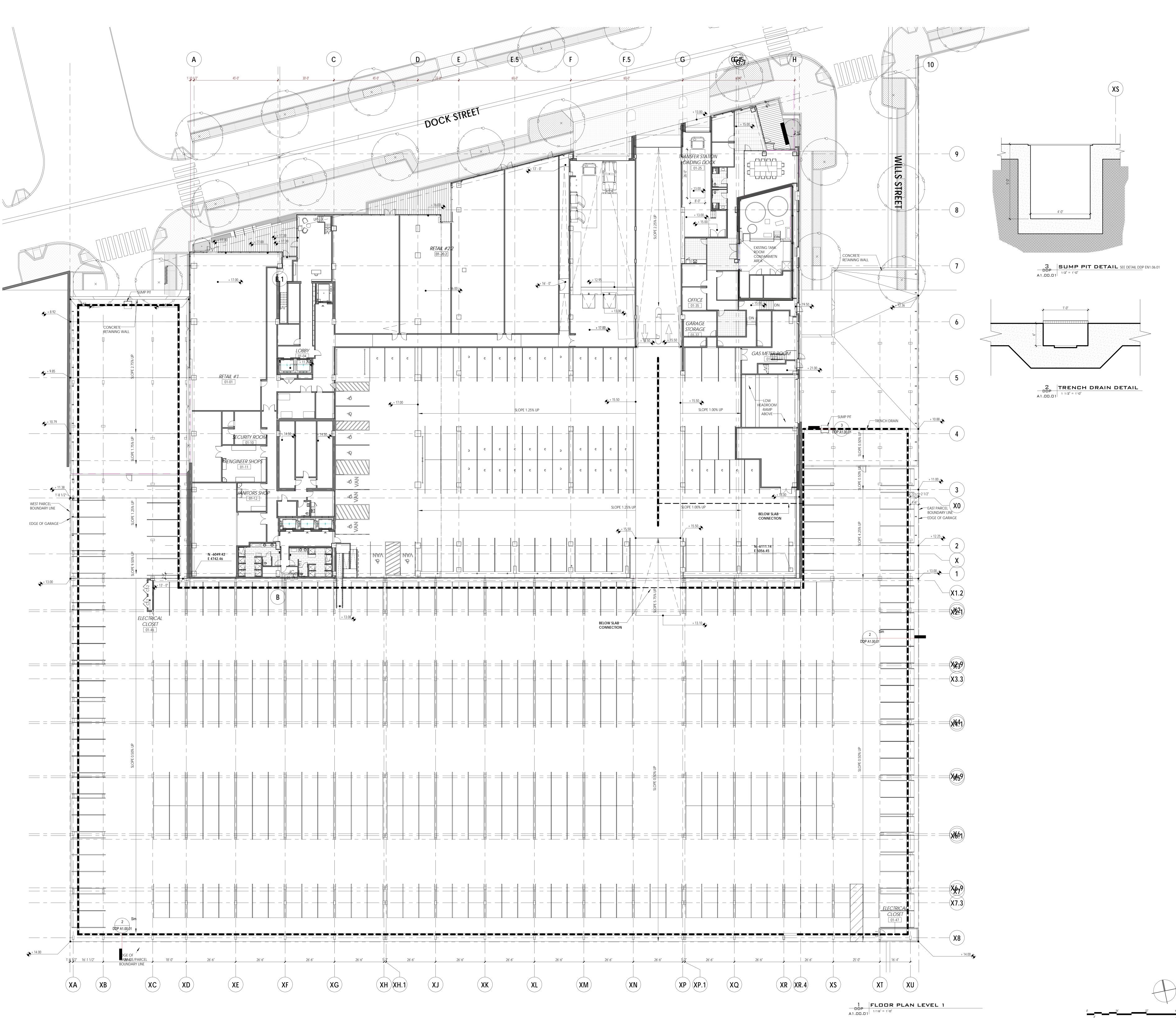
HARBOR POINT PHASE 1 AREA 1 DDP SUBMISSION 8/1/13

SHEET INDEX

checked by: scale: project number:

DDP-

=DDP FLOOR PLAN - LEVEL 1 A1.00.01 -





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EXELON BLDG & PLAZA GARAGE

HARBOR POINT AREA 1 PHASE 1 DDP SUBMISSION 7/1/13

date description

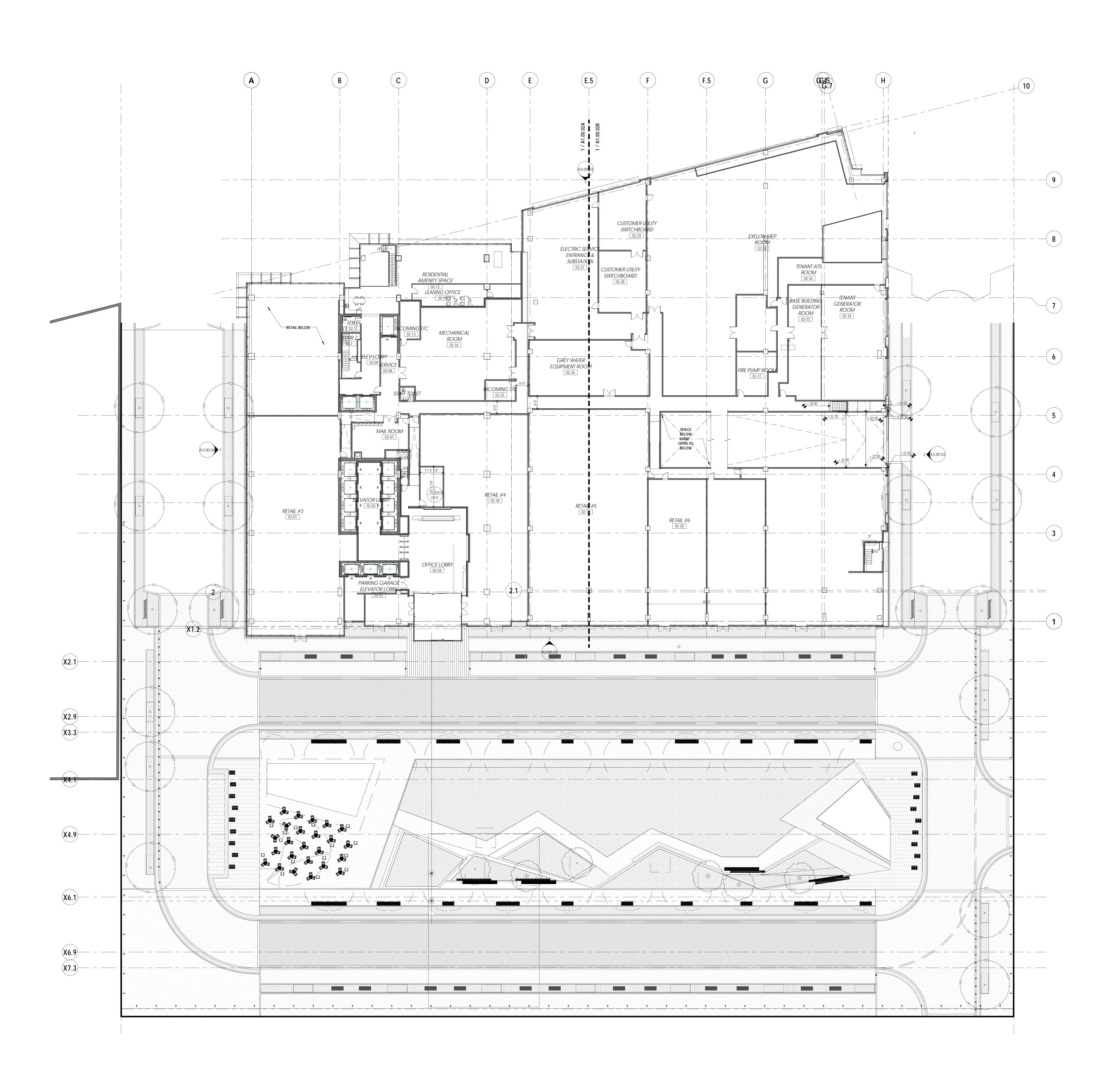
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FLOOR PLAN -LEVEL 1

date: 05/23/13
drawn by: Author
checked by: Approver
scale: As indicated
project number: 09738.00

DDP 41 00 01

=DDP FLOOR PLAN - LEVEL 2 A1.00.02 -





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HARBOR POINT AREA 1 PHASE 1 DDP SUBMISSION 8/1/13

al

d date description

on date description

FLOOR PLAN -LEVEL 2

 date:
 05/31/13

 drawn by:
 Author

 checked by:
 Approver

 scale:
 1/16" = 1'-0"

 project number:
 09738.00

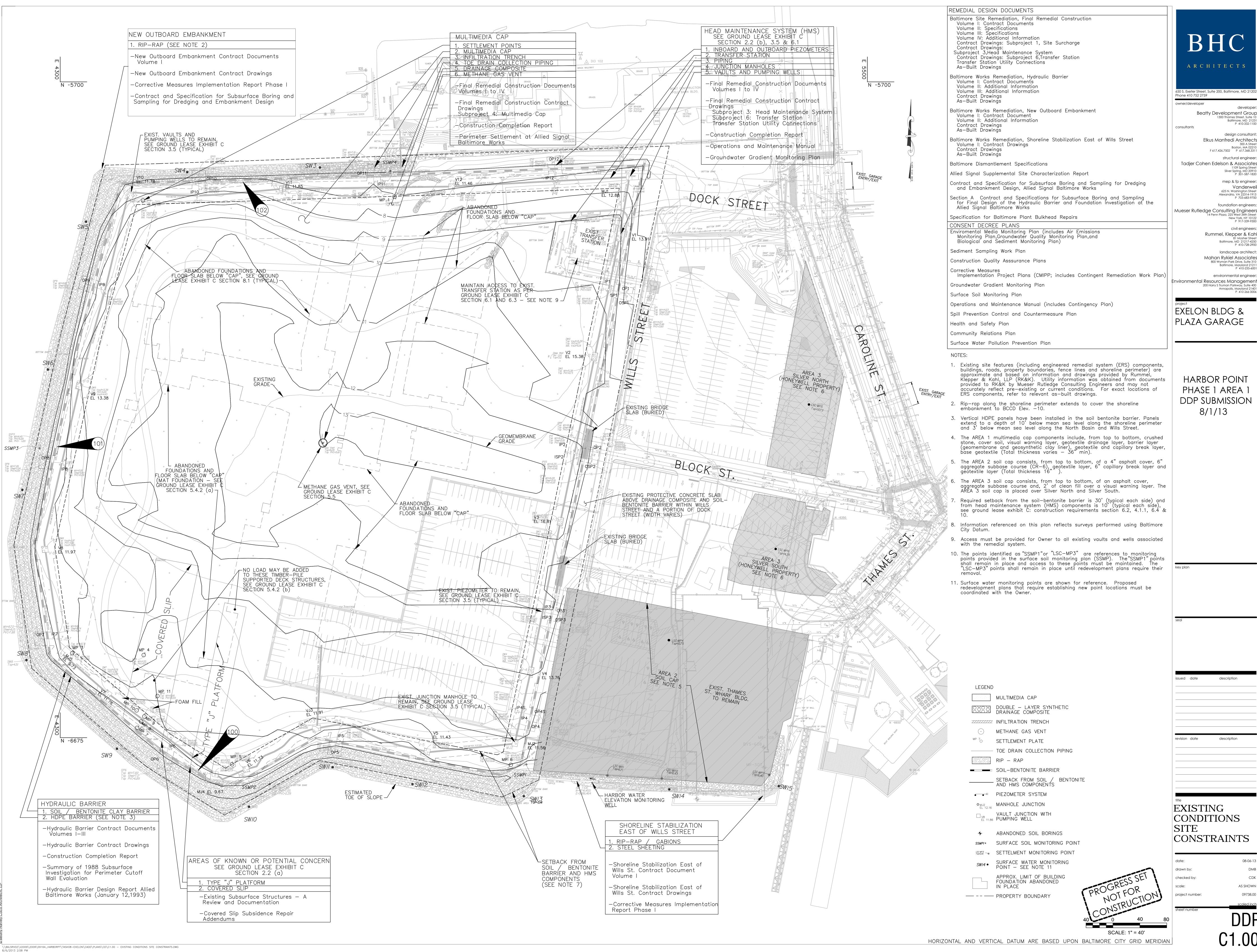
DDP A1.00.02



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Vanderweil

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Baltimore, Maryland 2121 environmental engineer: Environmental Resources Management 200 Harry S Truman Parkway, Suite 400

landscape architect:

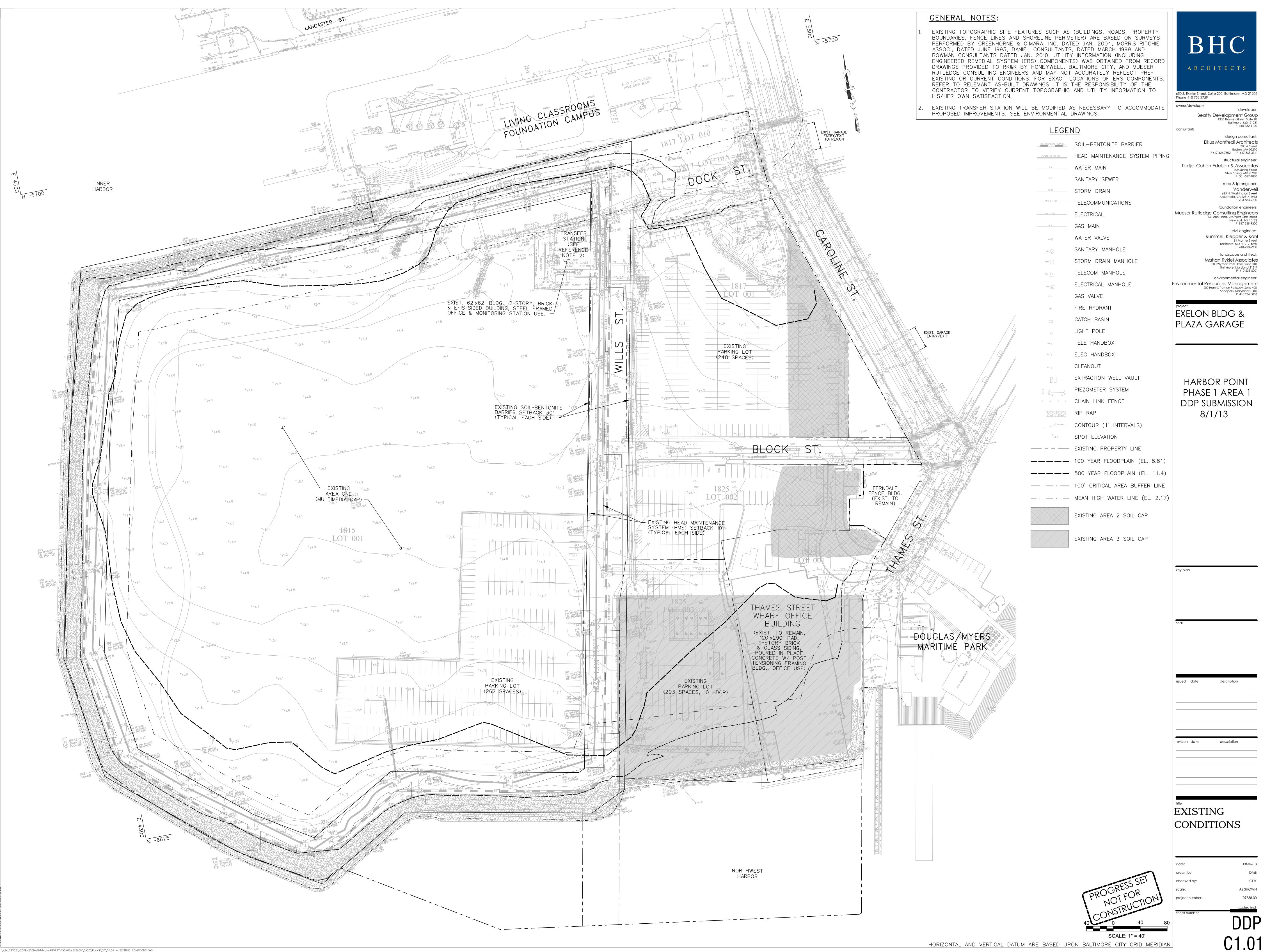
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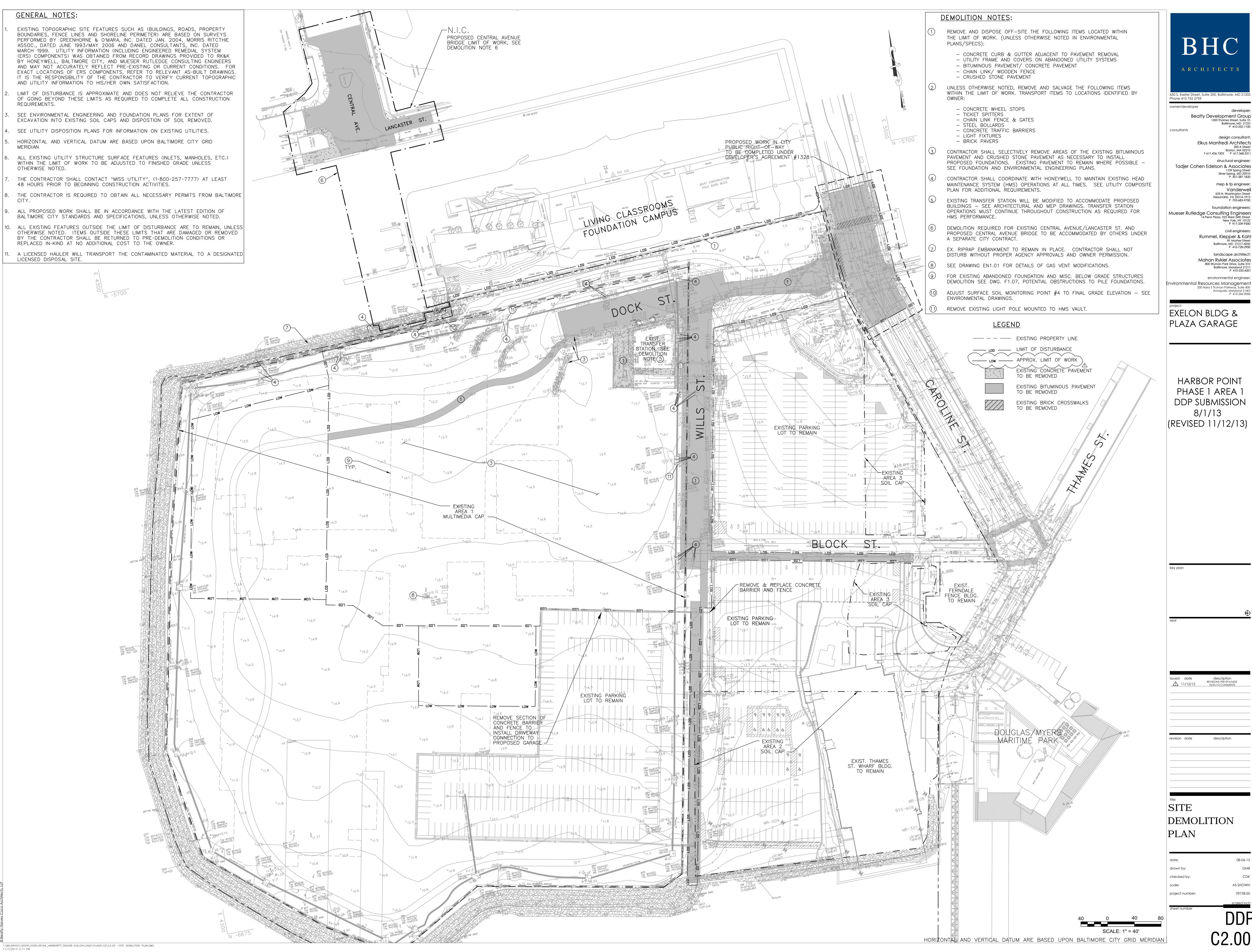
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> AS SHOWN 09738.00

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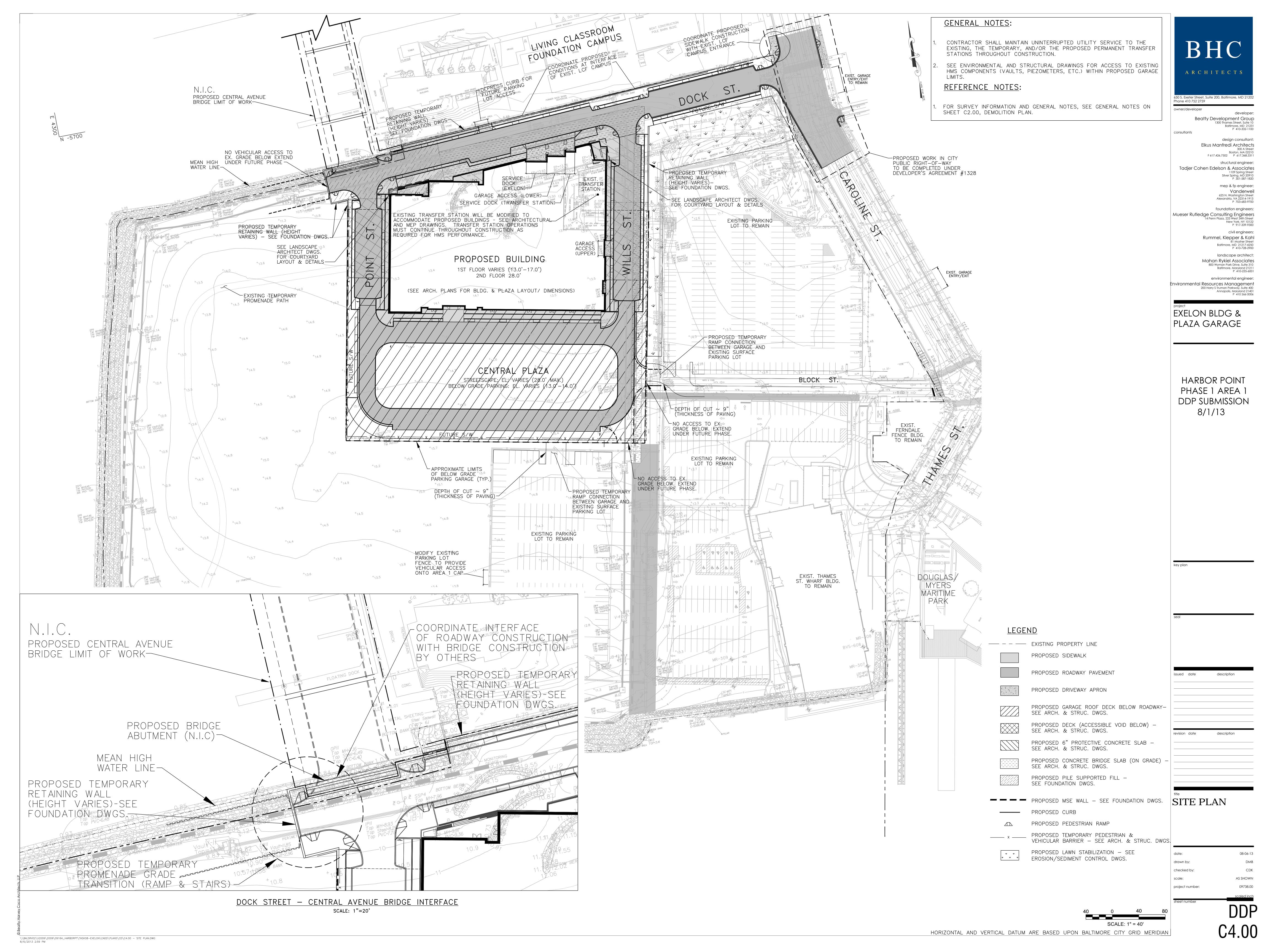
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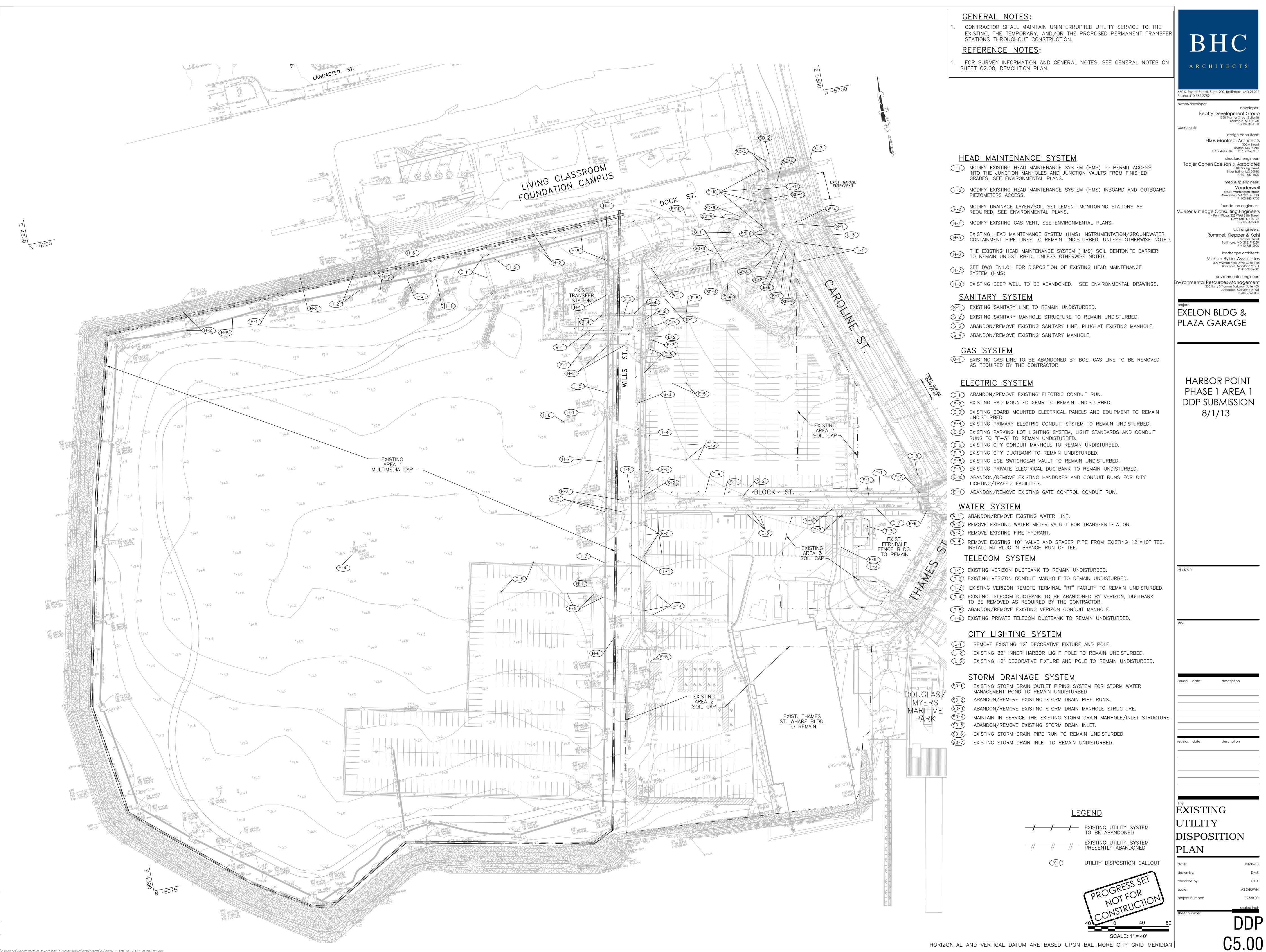
Baltimore, Maryland 21211 P 410-235-6001 environmental engineer: Environmental Resources Management 200 Harry S Truman Parkway, Suite 400 Annapolis, Maryland 21401 P 410 266 0006

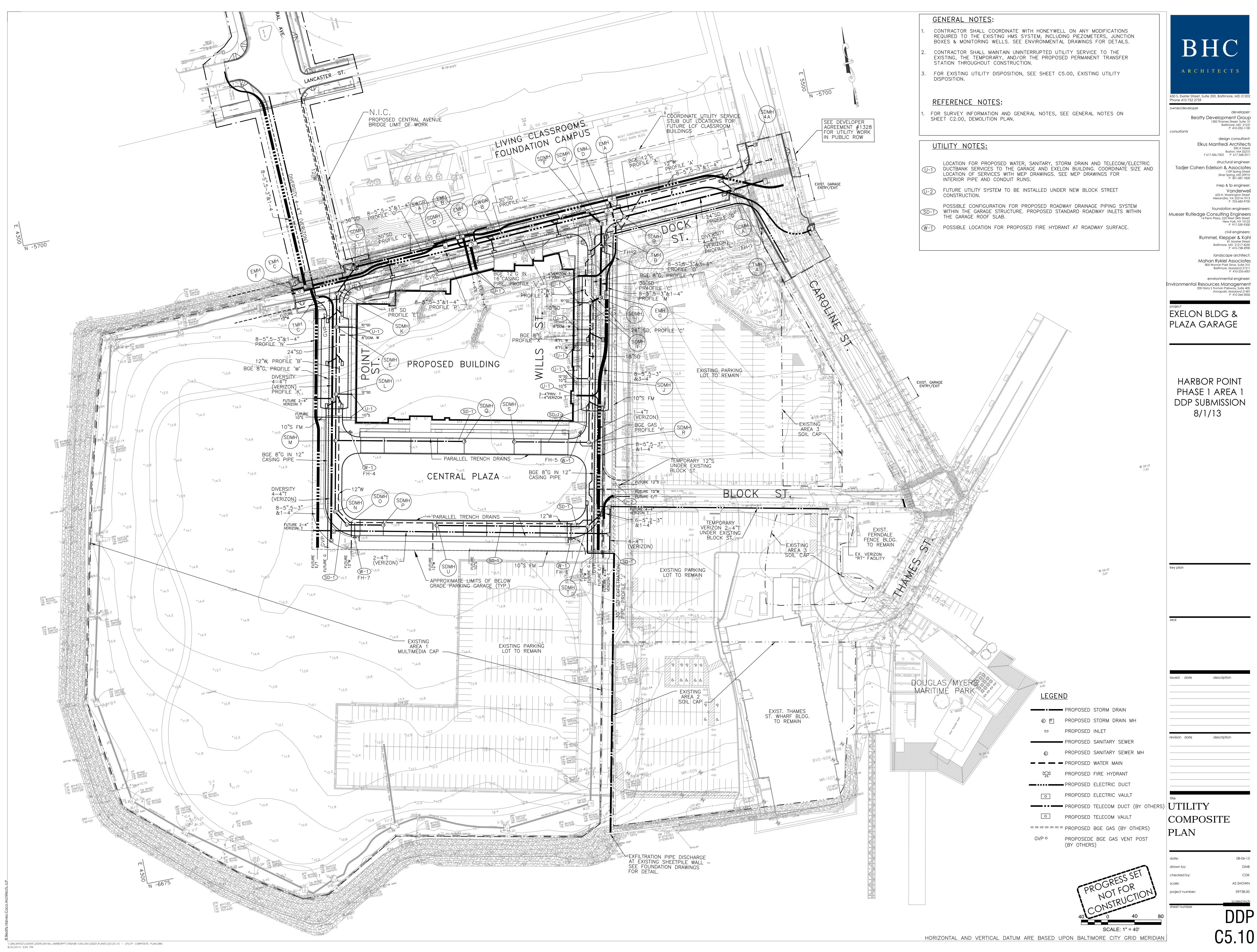
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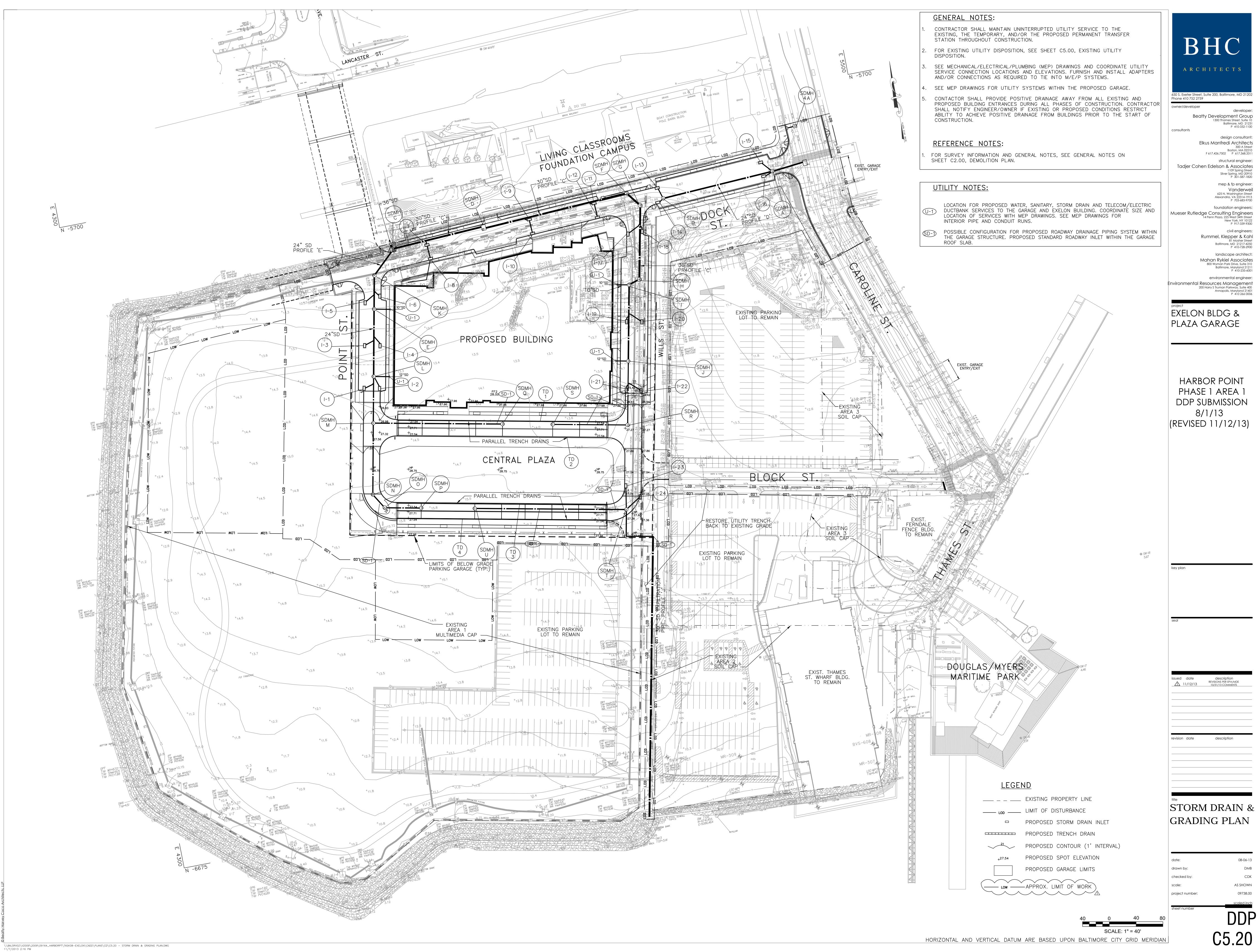
HARBOR POINT PHASE 1 AREA 1 DDP SUBMISSION 8/1/13 (REVISED 11/12/13)

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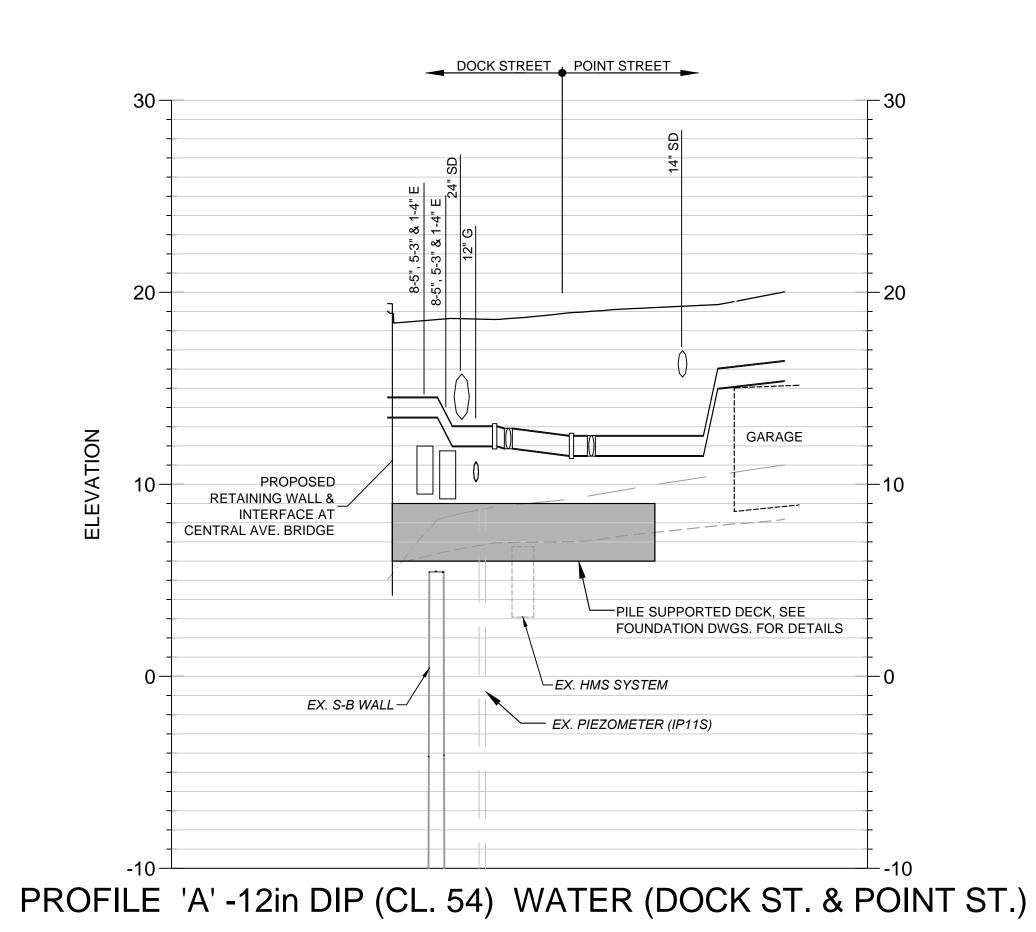




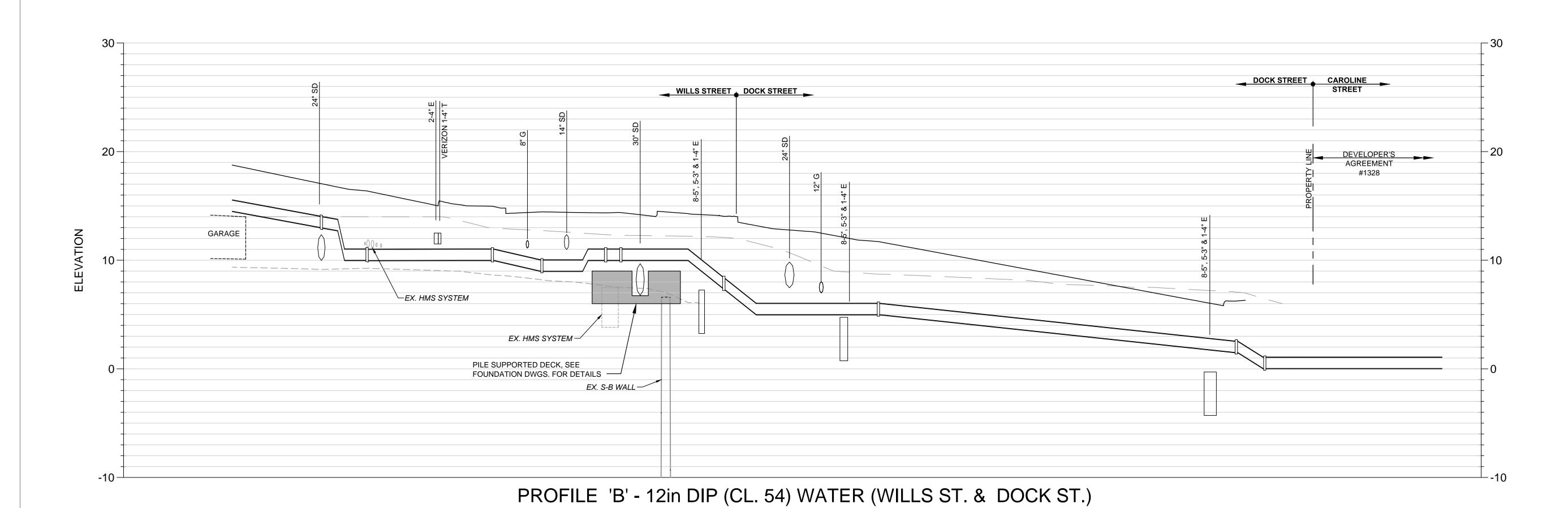


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Rummel, Klepper & Kahl 81 Mosher Street Baltimore, MD 21217-4250 P 410-728-2900



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## GENERAL NOTES:

- SEE MECHANICAL/ELECTRICAL/PLUMBING DRAWINGS AND COORDINATE UTILITY SERVICE CONNECTION LOCATIONS AND ELEVATIONS. FURNISH AND INSTALL ADAPTERS AND/OR CONNECTIONS AS REQUIRED TO TIE INTO M/E/P SYSTEMS.
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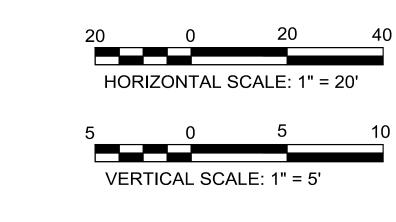
EXELON BLDG & PLAZA GARAGE

HARBOR POINT
PHASE 1 AREA 1
DDP SUBMISSION
8/1/13
(REVISED 11/12/13)

MULTIMEDIA CAP MODIFICATIONS

FOR ALL AREAS WHERE PROPOSED UTILITIES
REQUIRE MODIFICATIONS TO THE MULTIMEDIA CAP,
SEE FOUNDATION DRAWING F1.32 FOR DETAILS

---- EXISTING GEOMEMBRANE SURFACE



WATER
PROFILES &
DETAILS

revision date

issued date description
REVISIONS PER EPA/MDE
10/31/13 COMMENTS

description

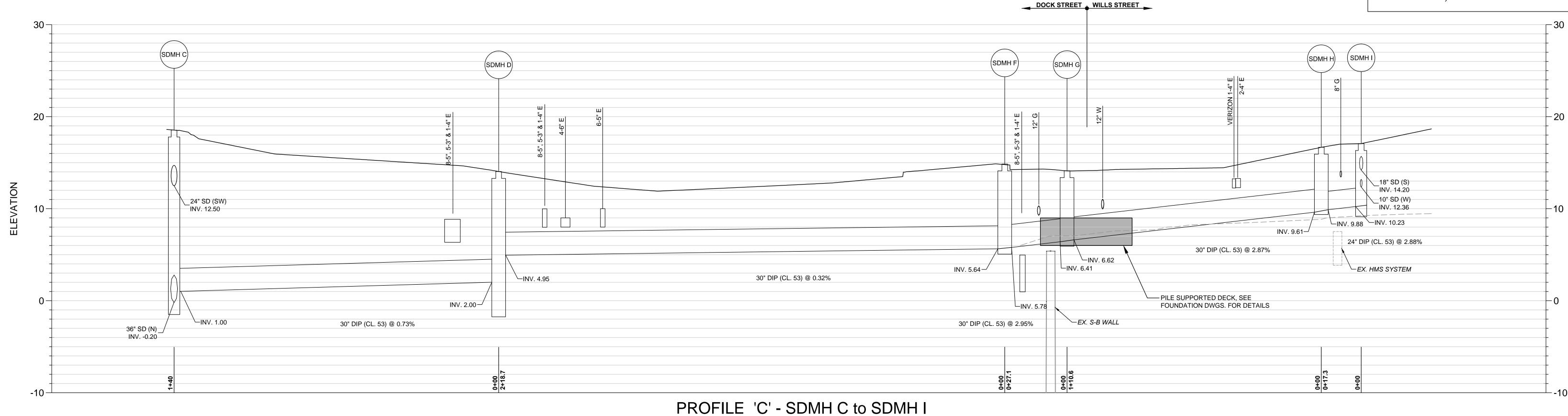
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checked by: CDK
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project number: 09738.00

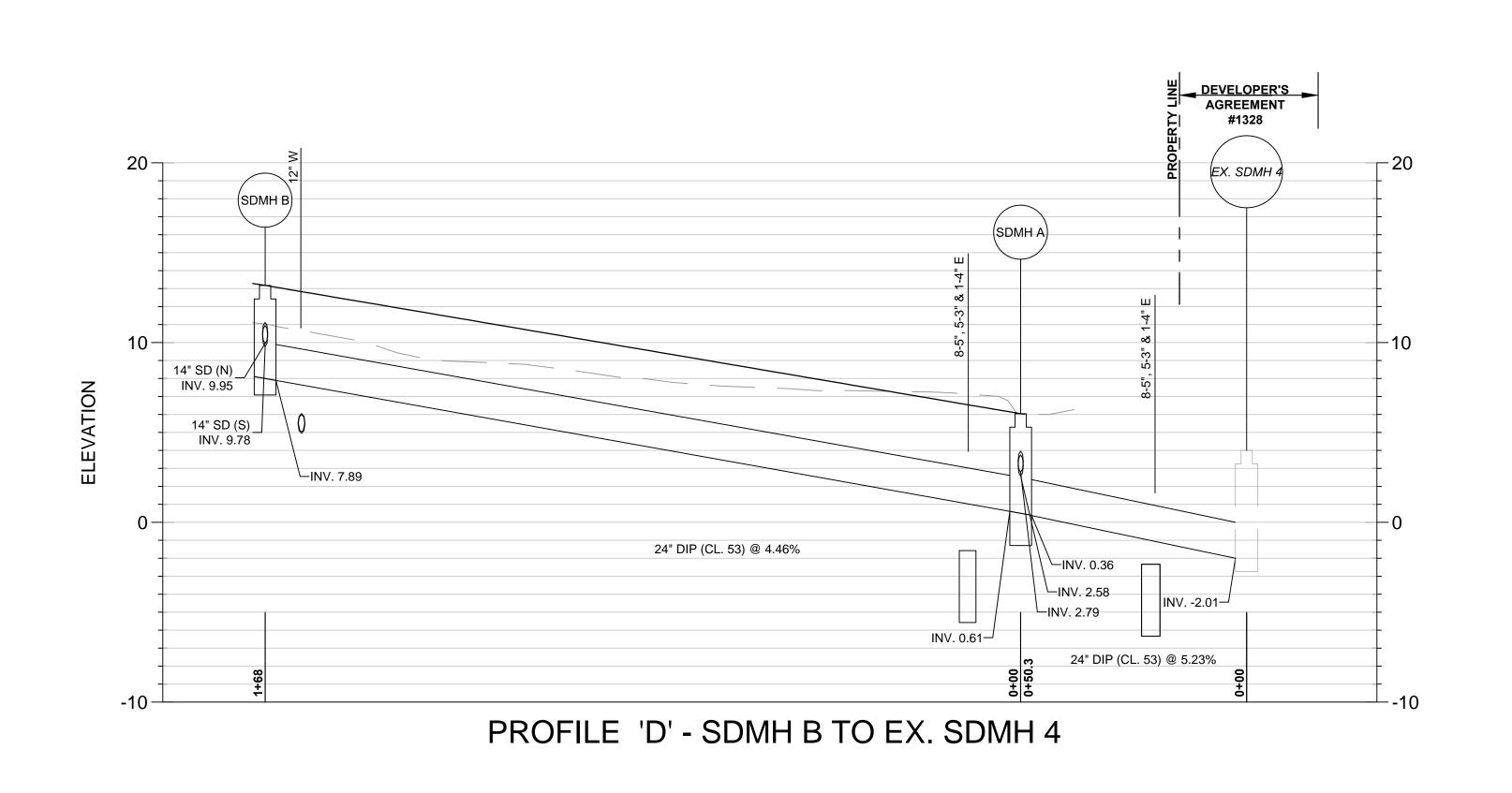
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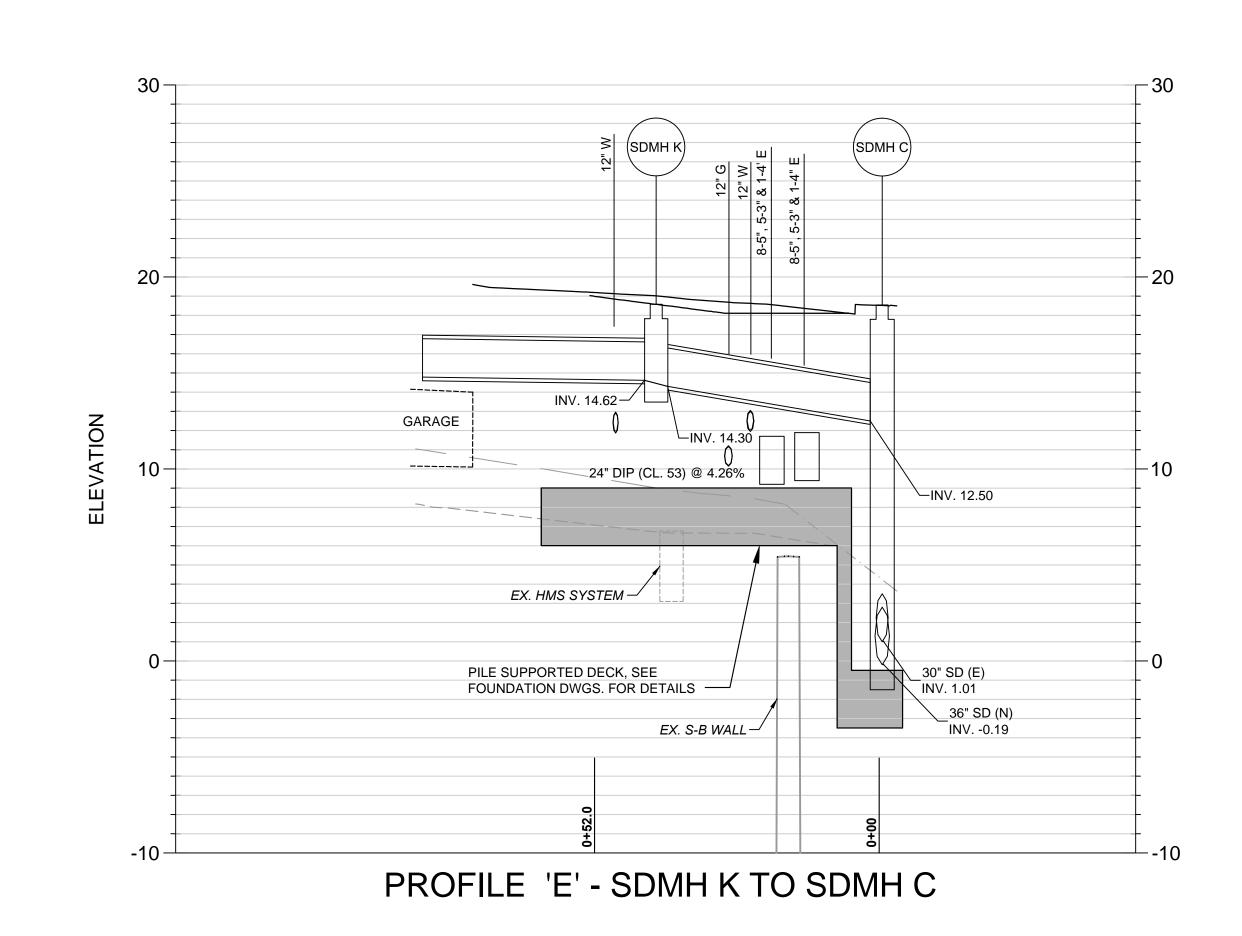
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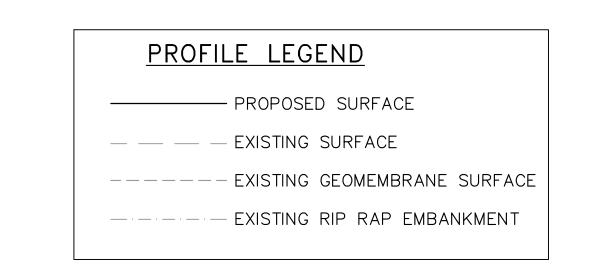
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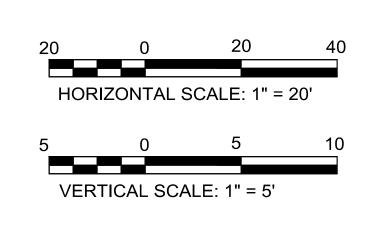




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MULTIMEDIA CAP MODIFICATIONS

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SEE FOUNDATION DRAWING F1.32 FOR DETAILS

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EXELON BLDG &
PLAZA GARAGE

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environmental engineer:

HARBOR POINT
PHASE 1 AREA 1
DDP SUBMISSION
8/1/13
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key plan

al

issued date description

REVISIONS PER EPA/MDE
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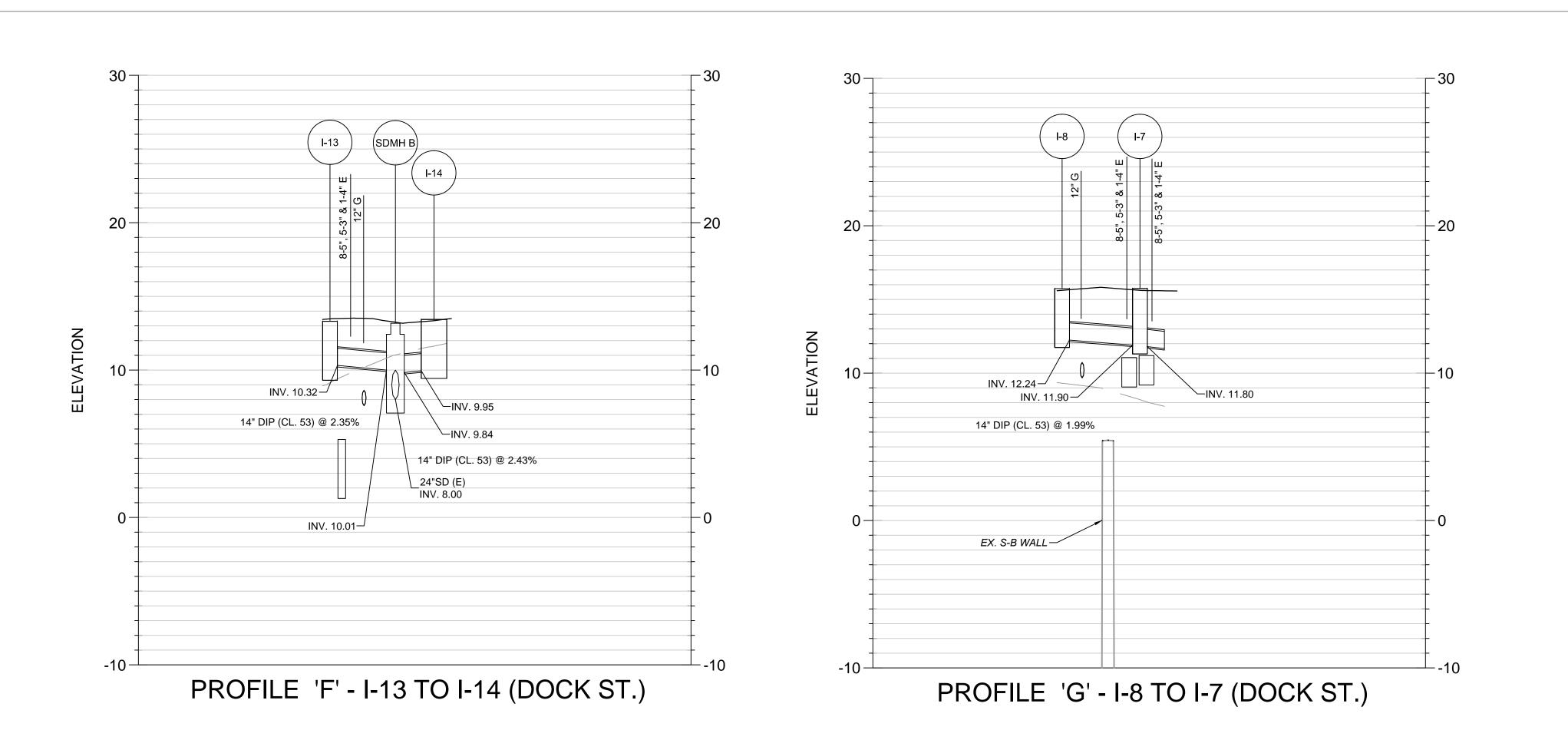
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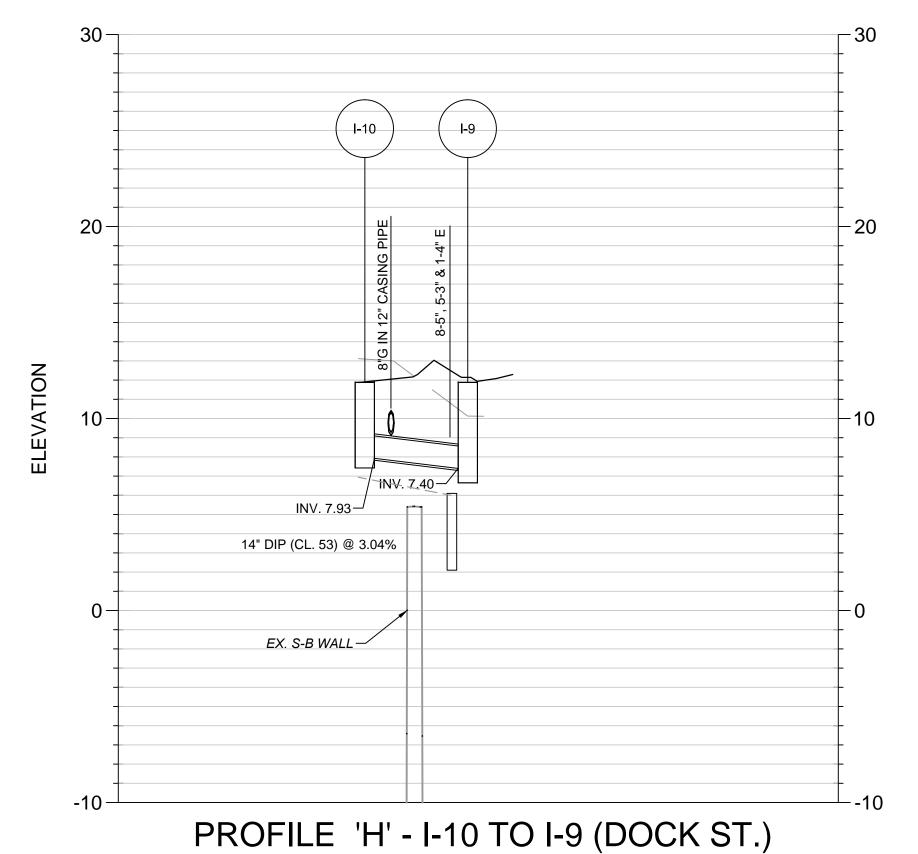
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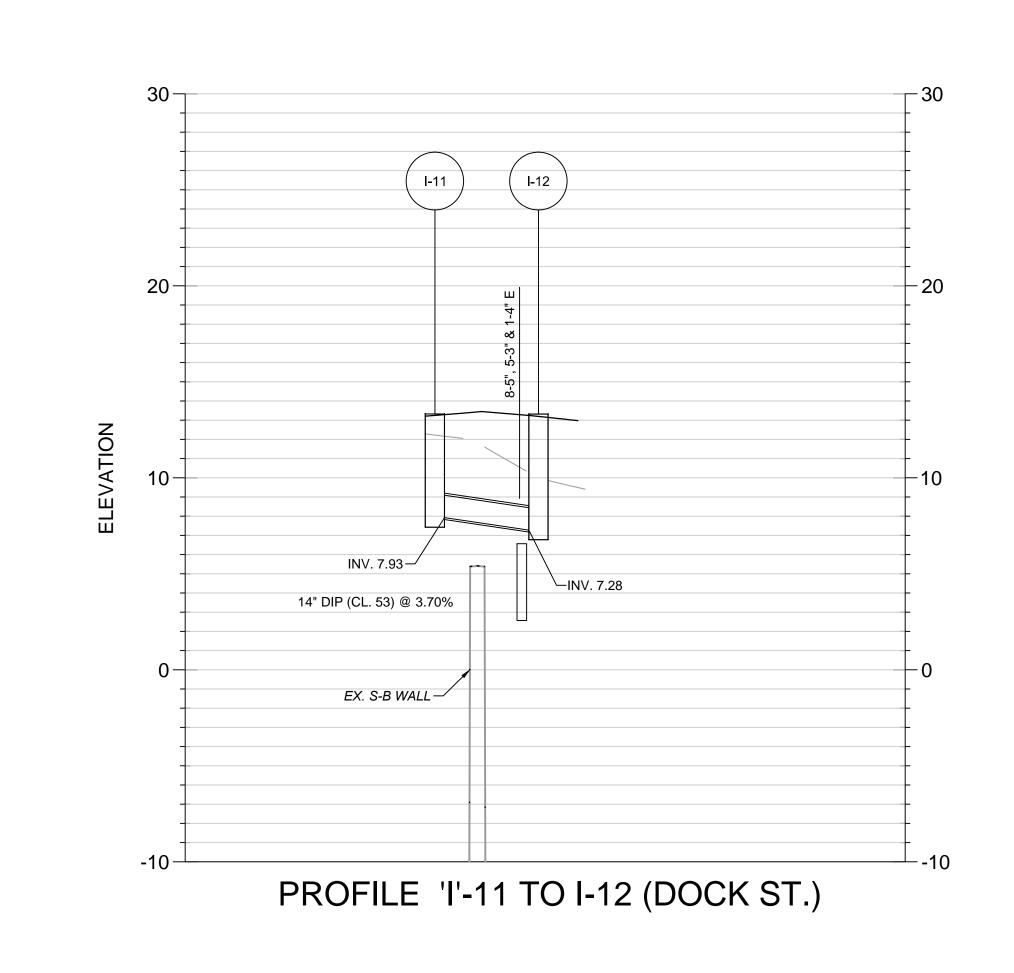
DETAILS

date: 08-06-13
drawn by: DMB
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project number: 09738.00

DDF









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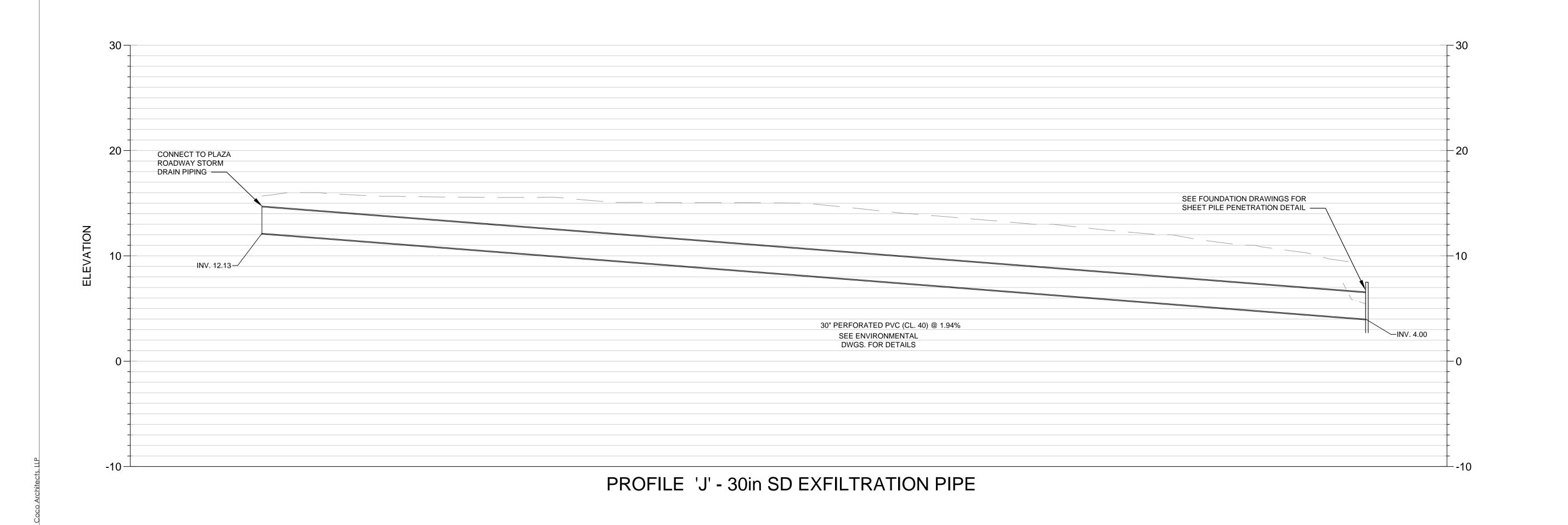
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EXELON BLDG & PLAZA GARAGE

HARBOR POINT PHASE 1 AREA 1 DDP SUBMISSION 8/1/13 (REVISED 11/12/13)

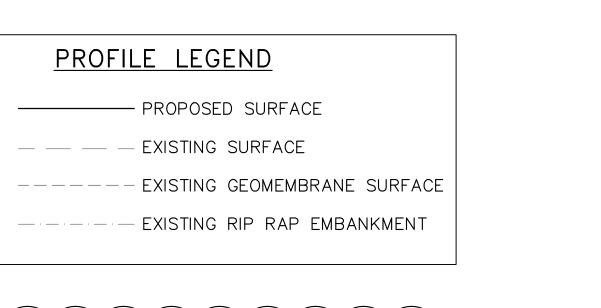
STORM DRAIN PROFILES & DETAILS



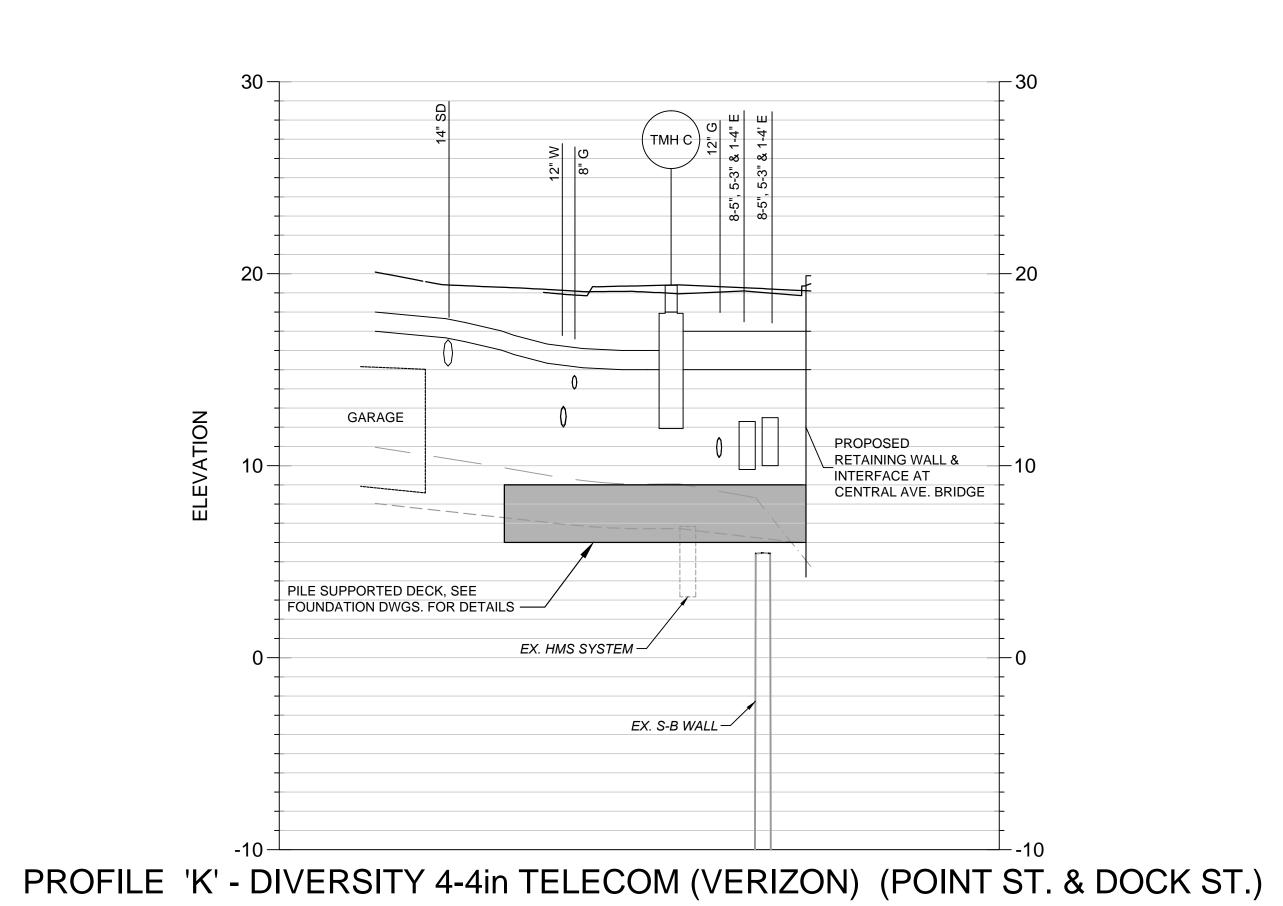
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VERTICAL SCALE: 1" = 5'



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PROFILE 'L' - TELECOM (VERIZON) (WILLS ST. & DOCK ST.)

WORK SHOWN ON THIS DRAWING IS BY OTHERS (VERIZON). PROFILE SHOWS CONCEPTUAL ALIGNMENT TO BE FINALIZED BY VERIZON.

ARCHITECTS 650 S. Exeter Street, Suite 200, Baltimore, MD 21202 Phone 410 752 2759 owner/developer Beatty Development Group 1300 Thames Street, Suite 10 Baltimore, MD 21231 P 410-332-1100 Elkus Manfredi Architects 300 A Street Boston, MA 02210 F 617.426.7502 P 617.368.3311 structural engineer: Tadjer Cohen Edelson & Associates 1109 Spring Street Silver Spring, MD 20910 P 301-587-1820 Vanderweil 625 N. Washington Street Alexandria, VA 22314-1913 P 703-683-9700 foundation engineers: Mueser Rutledge Consulting Engineers 14 Penn Plaza, 225 West 34th Street New York, NY 10122 P 917-339-9300 Rummel, Klepper & Kahl 81 Mosher Street Baltimore, MD 21217-4250 P 410-728-2900 landscape architect: Mahan Rykiel Associates 800 Wyman Park Drive, Suite 310 Baltimore, Maryland 21211 P 410-235-6001 environmental engineer: Environmental Resources Management 200 Harry S Truman Parkway, Suite 400 Annapolis, Maryland 21401 P 410 266 0006 EXELON BLDG &

BHC

PLAZA GARAGE

HARBOR POINT
PHASE 1 AREA 1
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key plan

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issued date description

A 11/12/13 REVISIONS PER EPA/MDE
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TELECOM
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date: 08-06-13
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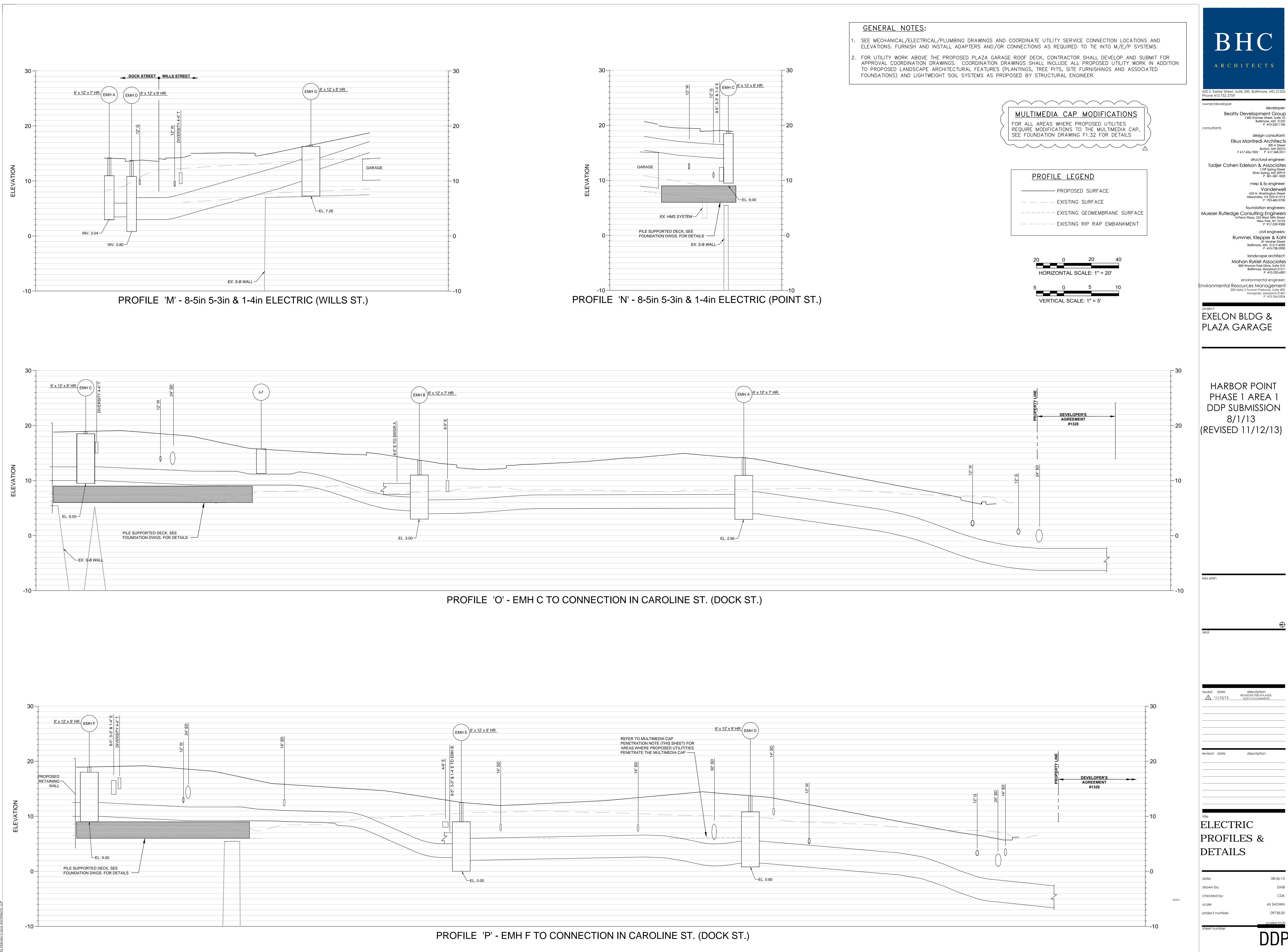
---- EXISTING GEOMEMBRANE SURFACE

PROFILE LEGEND

— — — EXISTING SURFACE

HORIZONTAL SCALE: 1" = 20'

VERTICAL SCALE: 1" = 5'



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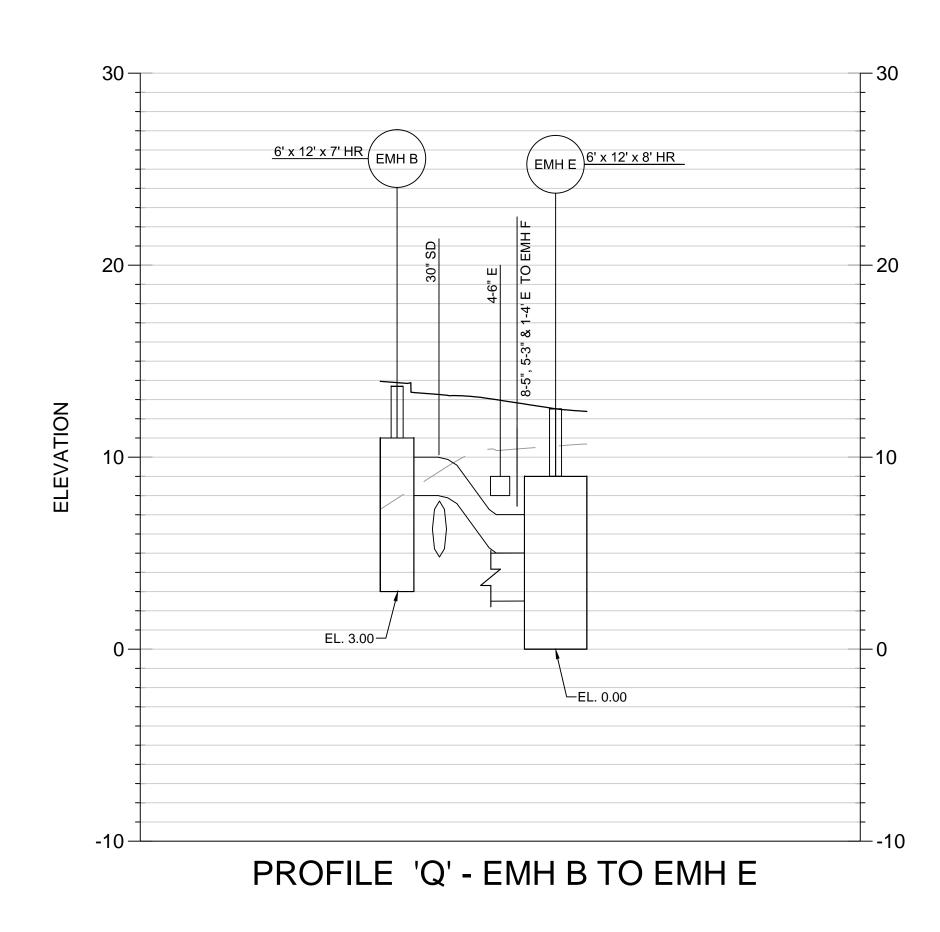
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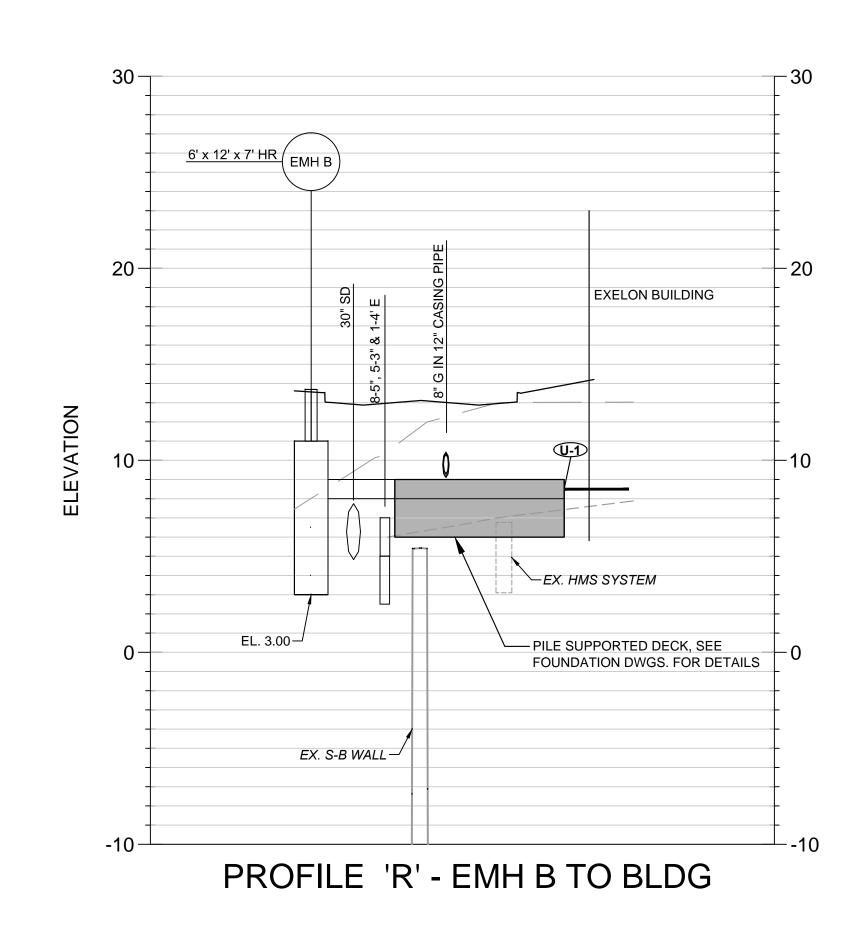
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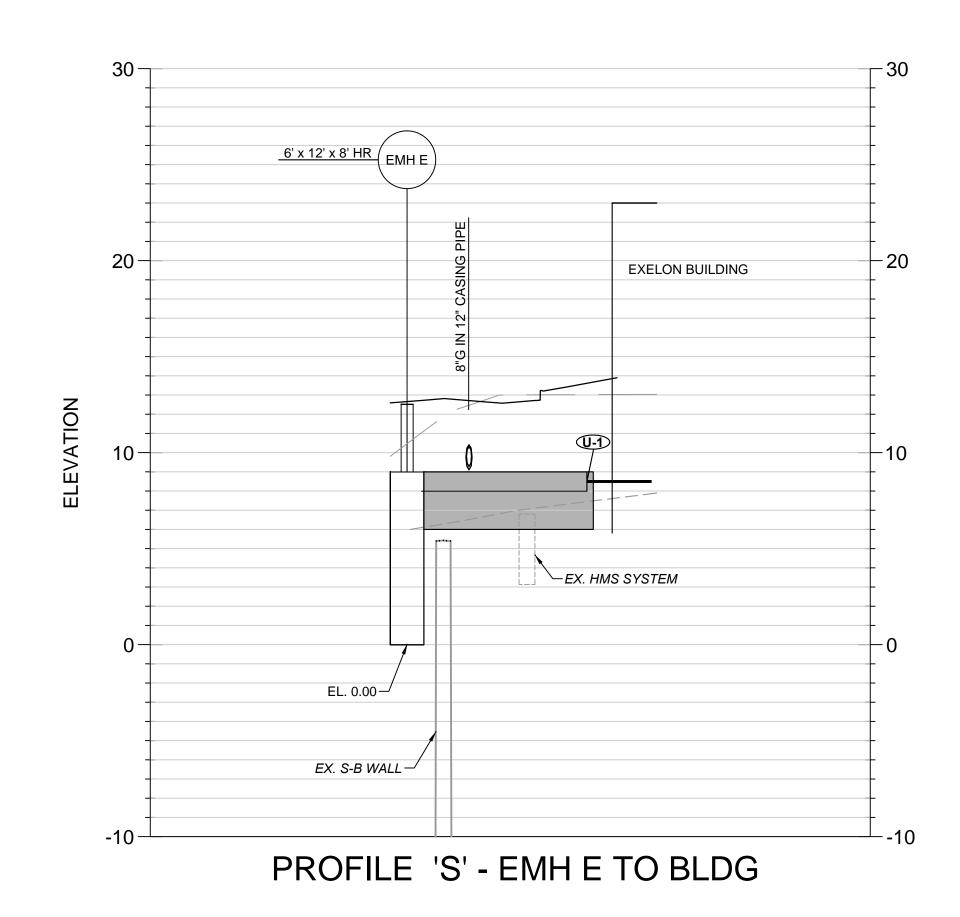
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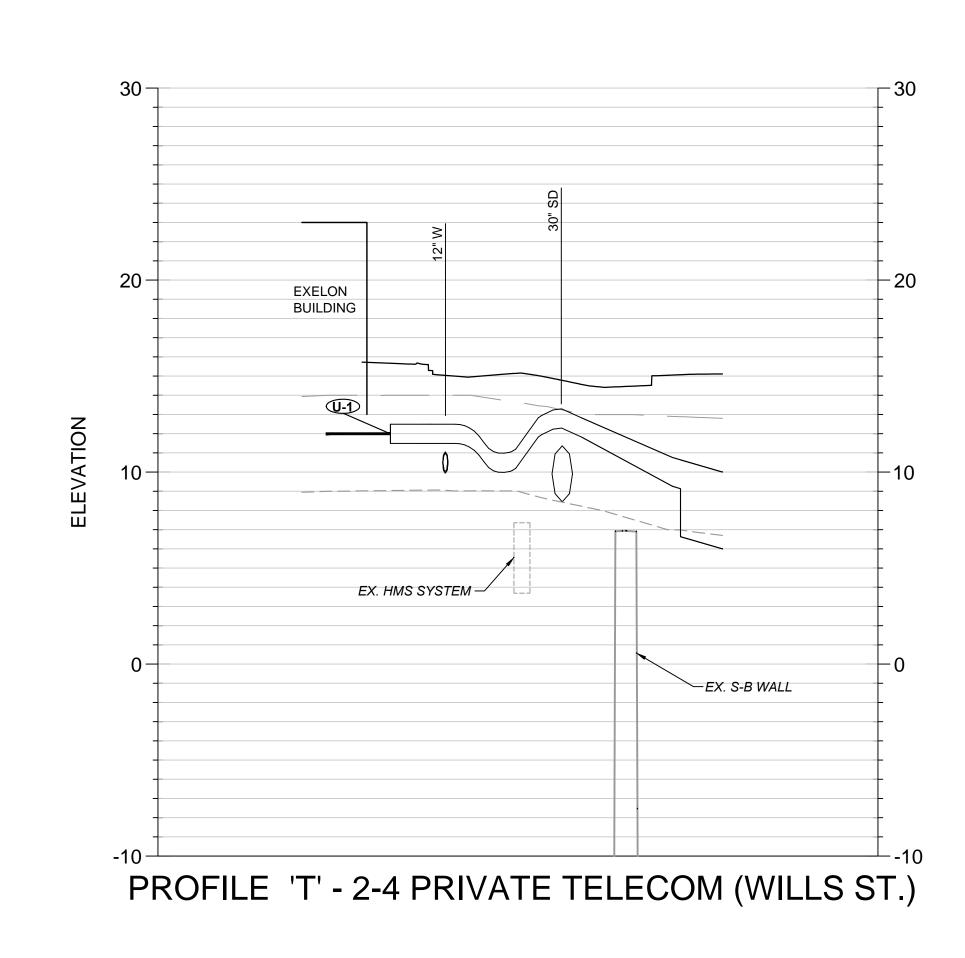
HARBOR POINT PHASE 1 AREA 1 DDP SUBMISSION 8/1/13 (REVISED 11/12/13)

ELECTRIC PROFILES & DETAILS







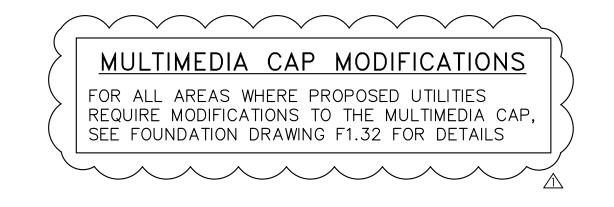


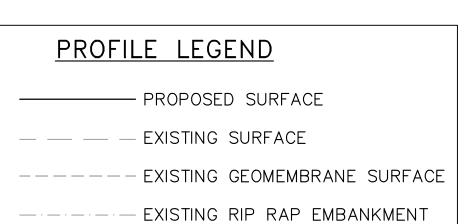
## GENERAL NOTES:

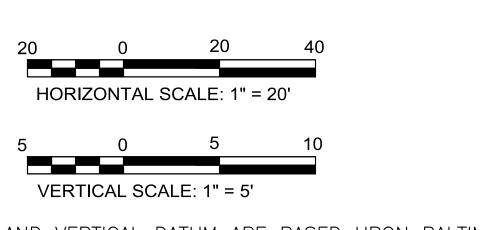
- 1. SEE MECHANICAL/ELECTRICAL/PLUMBING DRAWINGS AND COORDINATE UTILITY SERVICE CONNECTION LOCATIONS AND ELEVATIONS. FURNISH AND INSTALL ADAPTERS AND/OR CONNECTIONS AS REQUIRED TO TIE INTO M/E/P SYSTEMS.
- 2. FOR UTILITY WORK ABOVE THE PROPOSED PLAZA GARAGE ROOF DECK, CONTRACTOR SHALL DEVELOP AND SUBMIT FOR APPROVAL COORDINATION DRAWINGS. COORDINATION DRAWINGS SHALL INCLUDE ALL PROPOSED UTILITY WORK IN ADDITION TO PROPOSED LANDSCAPE ARCHITECTURAL FEATURES (PLANTINGS, TREE PITS, SITE FURNISHINGS AND ASSOCIATED FOUNDATIONS) AND LIGHTWEIGHT SOIL SYSTEMS AS PROPOSED BY STRUCTURAL ENGINEER.

## **UTILITY NOTES:**

LOCATION FOR PROPOSED WATER, SANITARY, STORM DRAIN AND TELECOM/ELECTRIC DUCTBANK SERVICES TO THE GARAGE AND EXELON BUILDING. COORDINATE SIZE AND LOCATION OF SERVICES WITH MEP DRAWINGS. SEE MEP DRAWINGS FOR INTERIOR PIPE AND CONDUIT RUNS.







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BHC

EXELON BLDG & PLAZA GARAGE

HARBOR POINT
PHASE 1 AREA 1
DDP SUBMISSION
8/1/13
(REVISED 11/12/13)

key plan

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issued date description

A 11/12/13 REVISIONS PER EPA/MDE 10/31/13 COMMENTS

vision date description

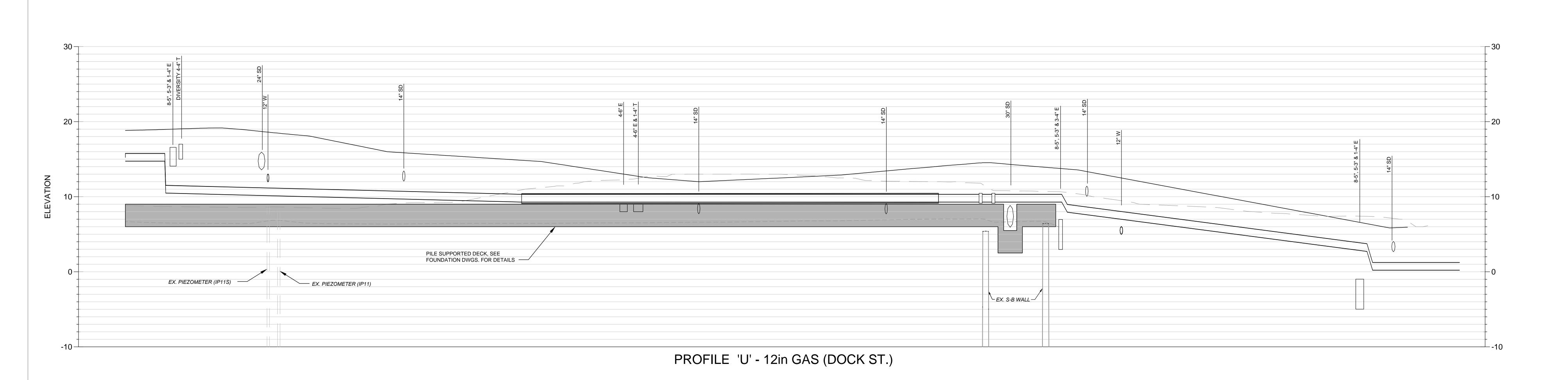
ELECTRIC
PROFILES &
DETAILS

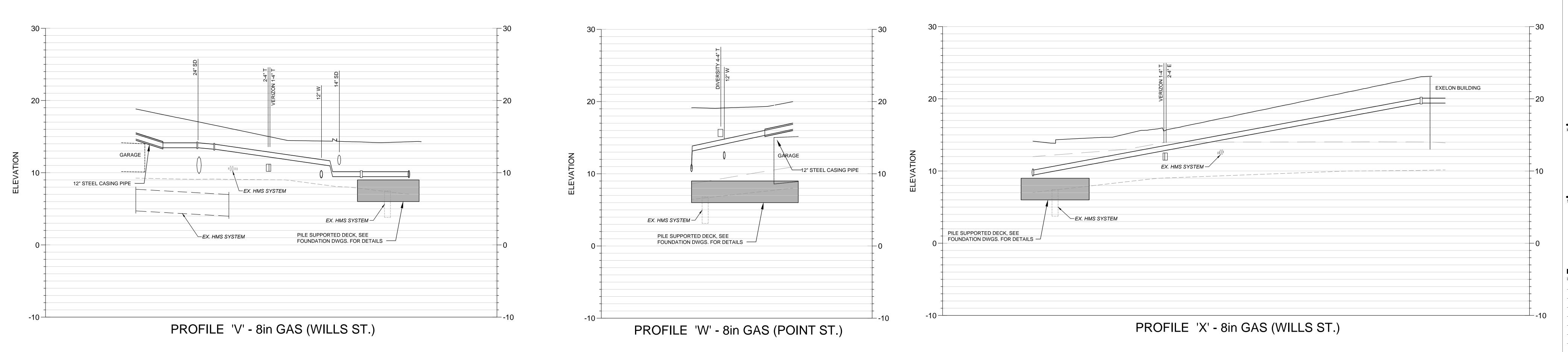
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checked by: CDK
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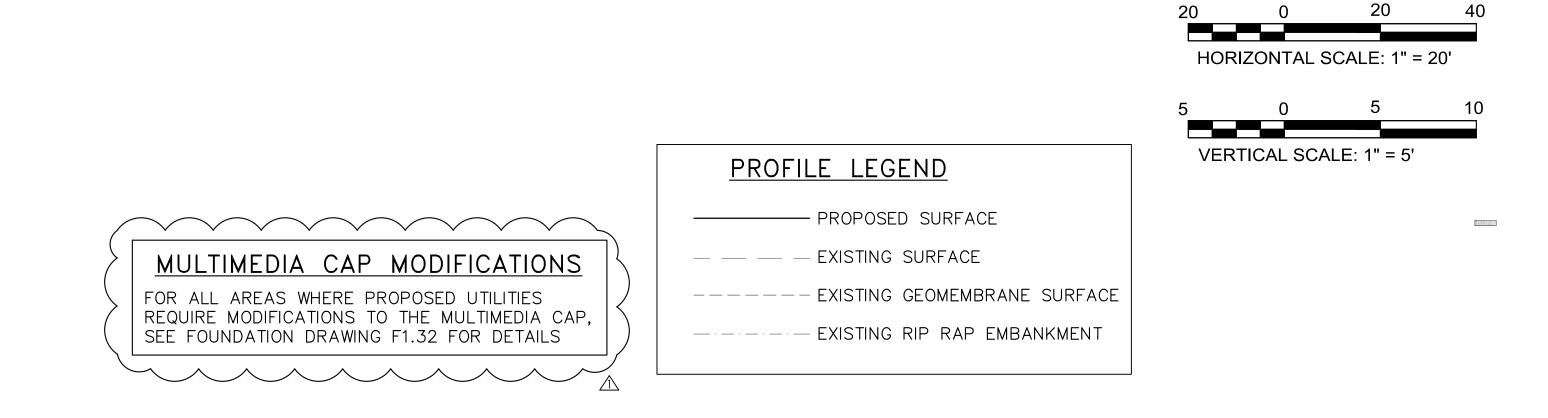
HORIZONTAL AND VERTICAL DATUM ARE BASED UPON BALTIMORE CITY GRID MERIDIAN

WORK SHOWN ON THIS DRAWING IS BY OTHERS (BGE). PROFILE SHOWS CONCEPTUAL ALIGNMENT TO BE FINALIZED BY BALTIMORE GAS & ELECTRIC.





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BHC

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HARBOR POINT
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(REVISED 11/12/13)

ed date description
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11/12/13 10/31/13 COMMENTS

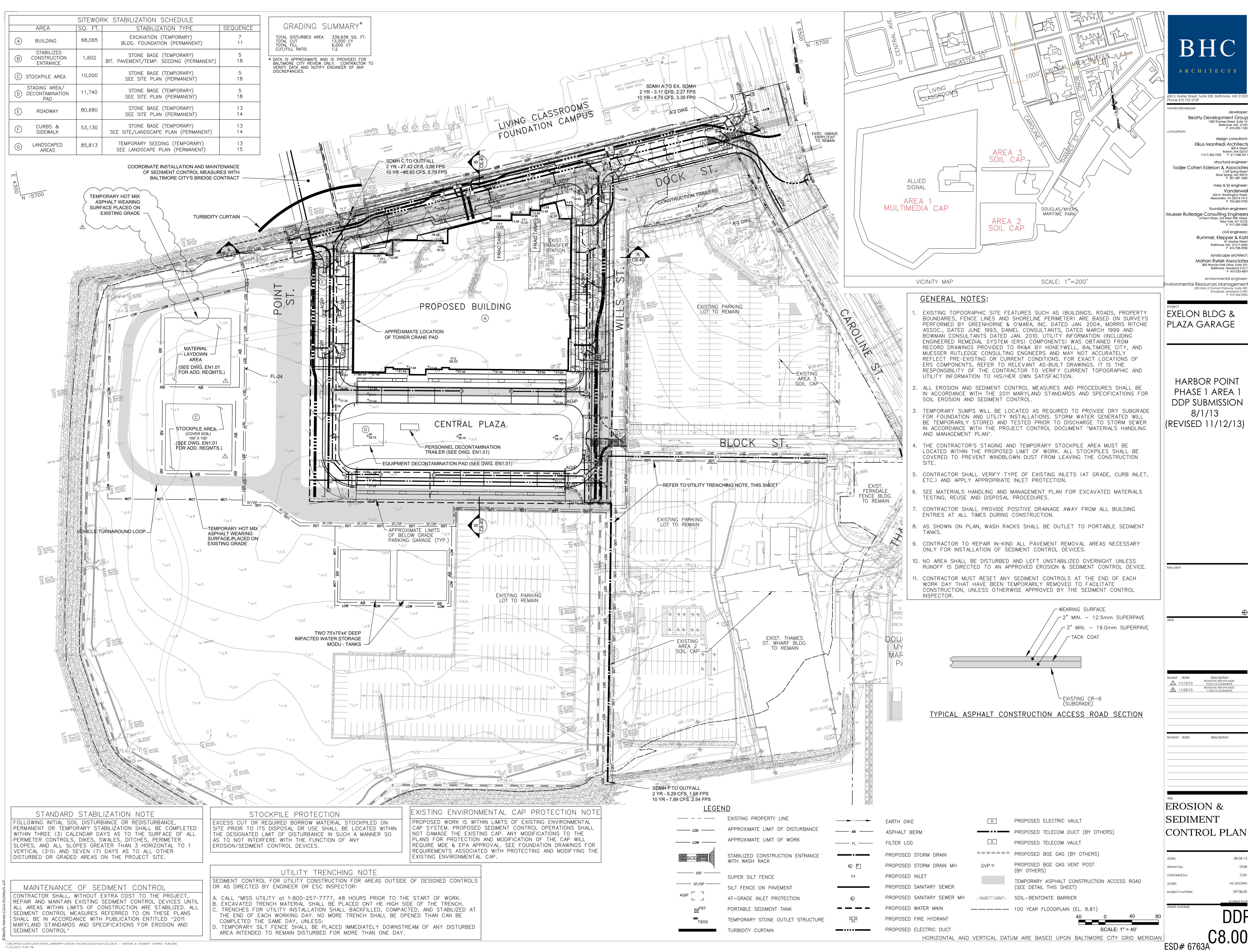
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GAS PROFILES

date: 08-06-13
drawn by: DMB
checked by: CDK
scale: AS SHOWN
project number: 09738.00

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HORIZONTAL AND VERTICAL DATUM ARE BASED UPON BALTIMORE CITY GRID MERIDIAN



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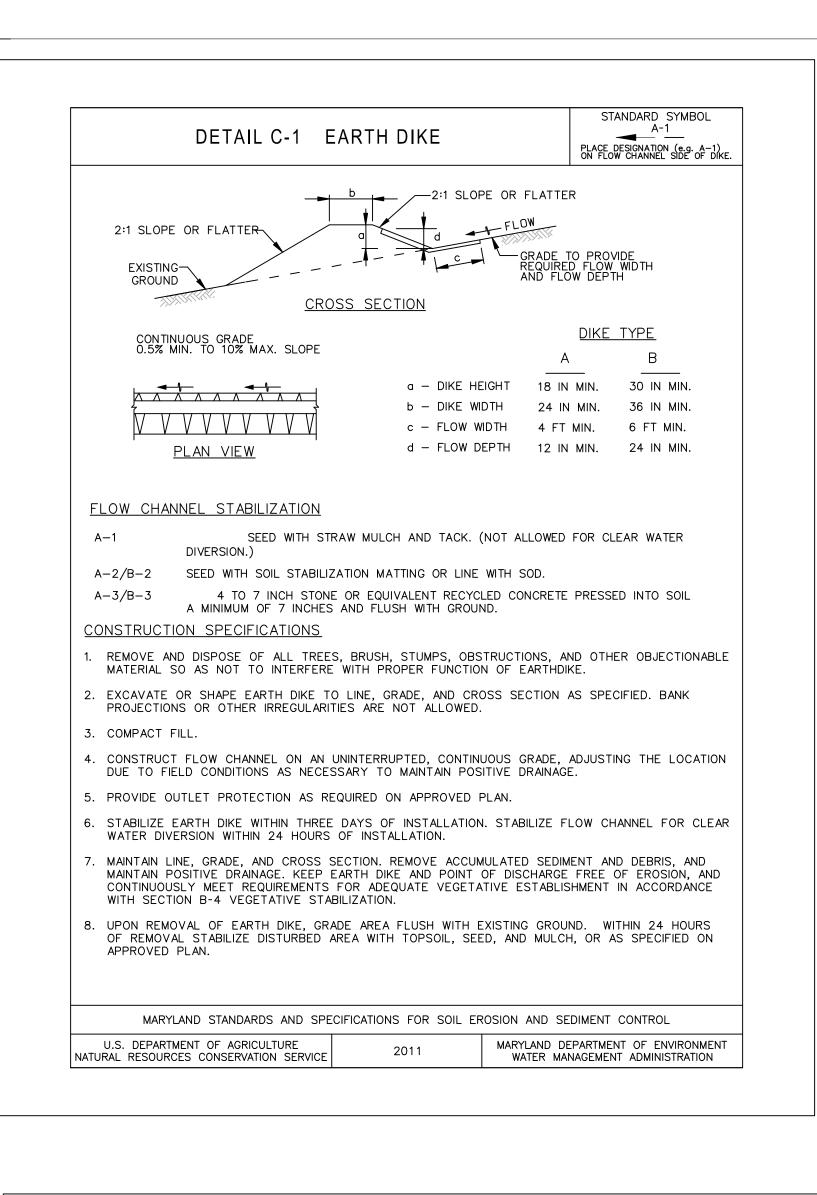
Baltimore, Maryland 2121

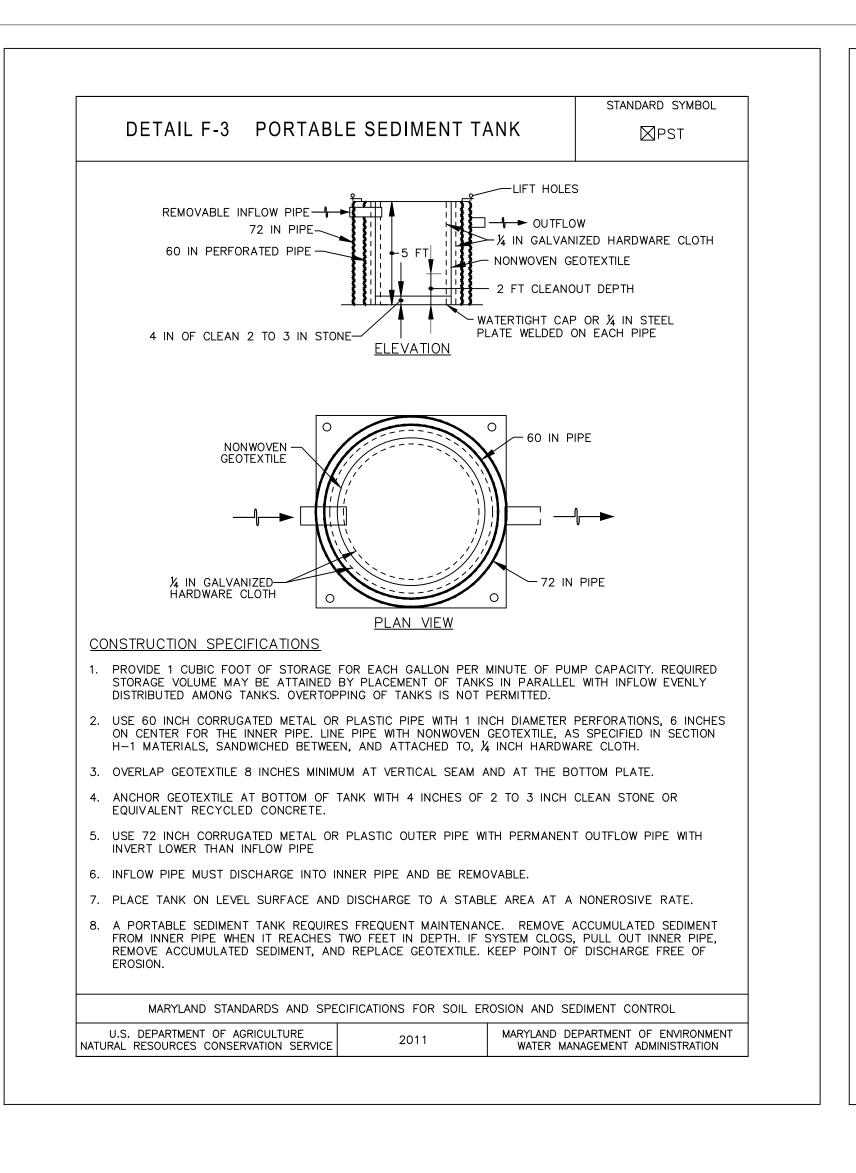
HARBOR POINT PHASE 1 AREA 1 DDP SUBMISSION

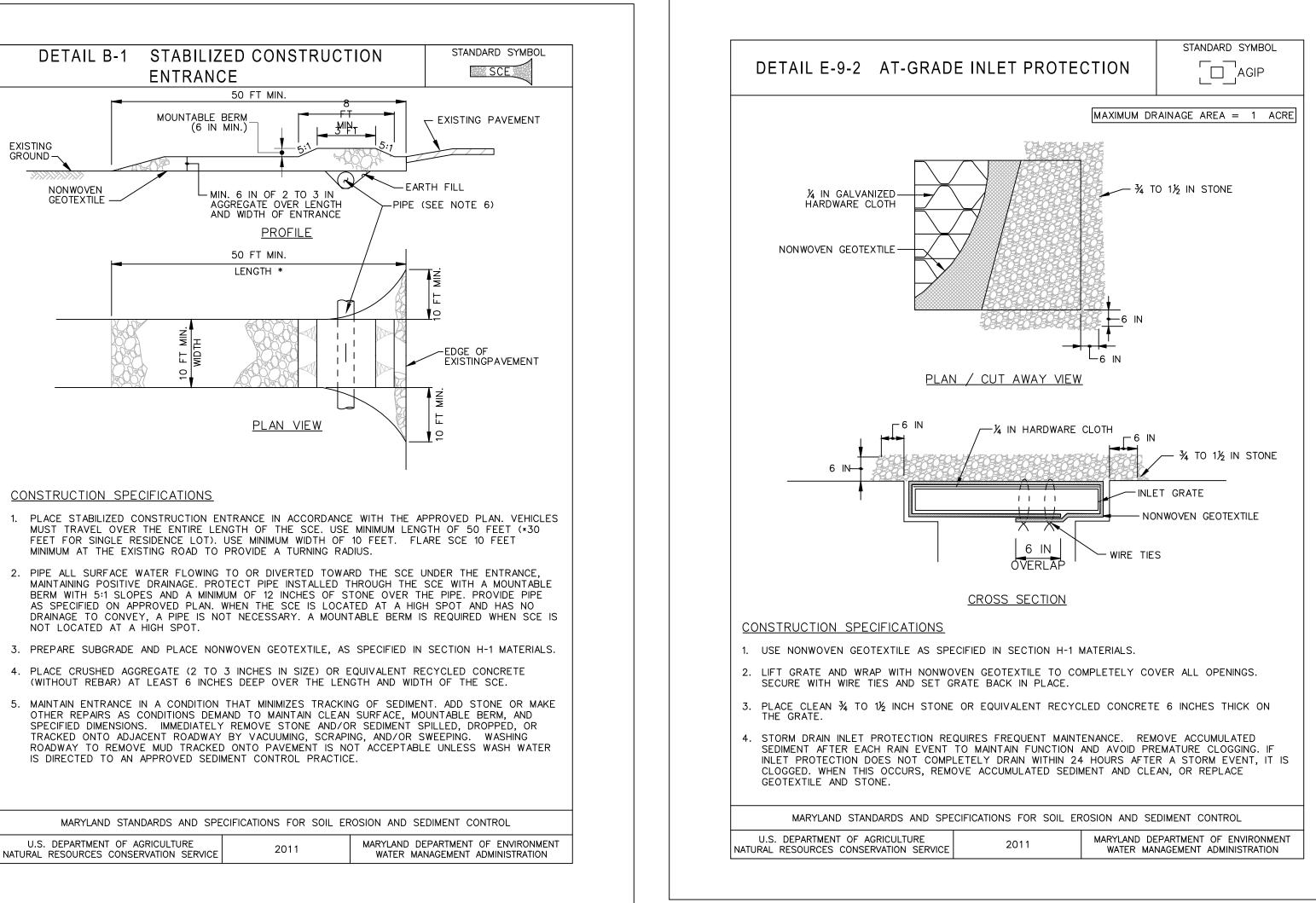
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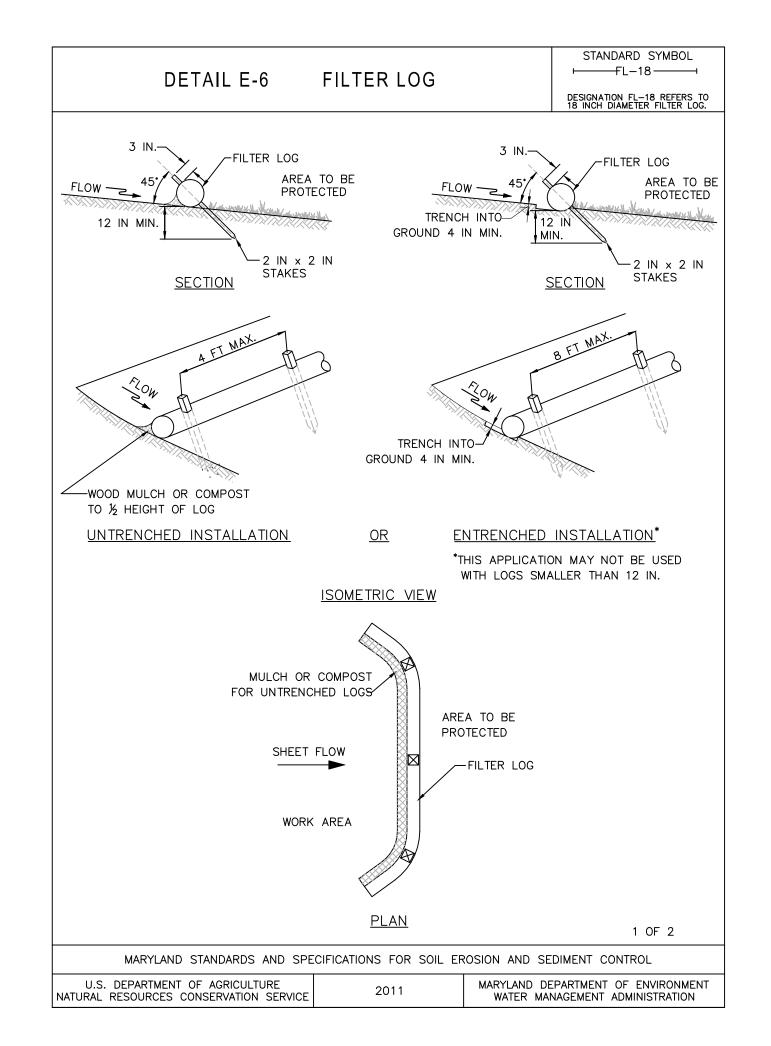
CONTROL PLAN

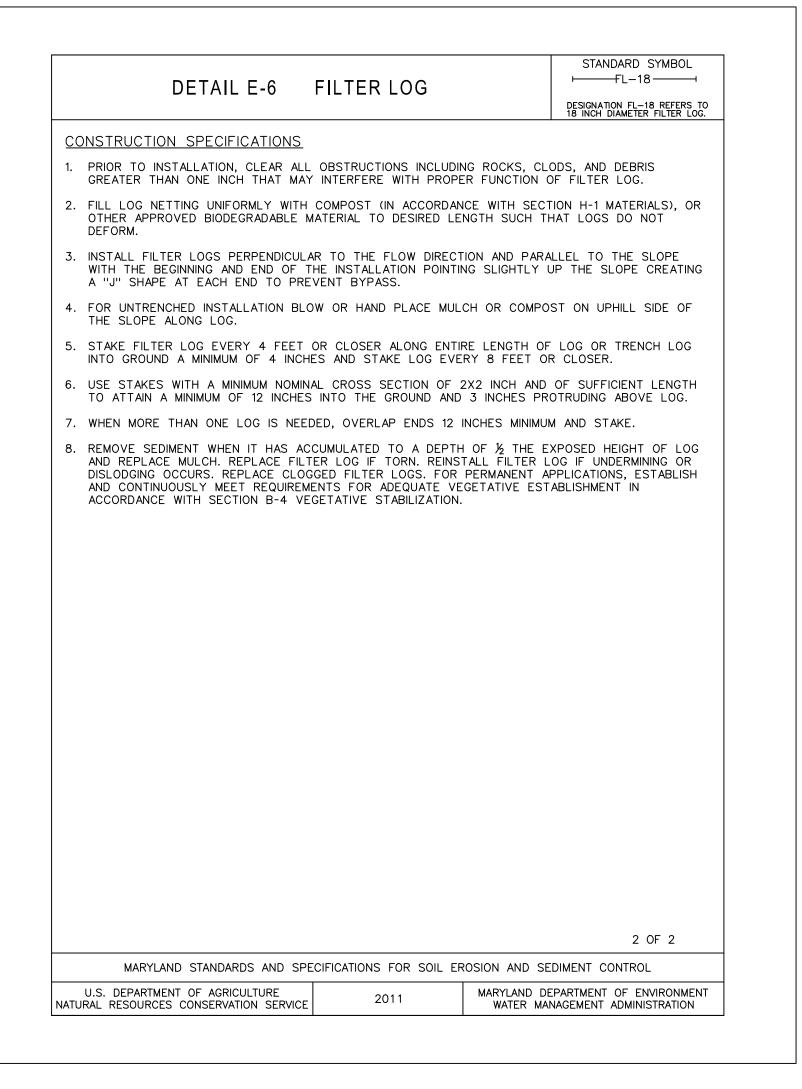
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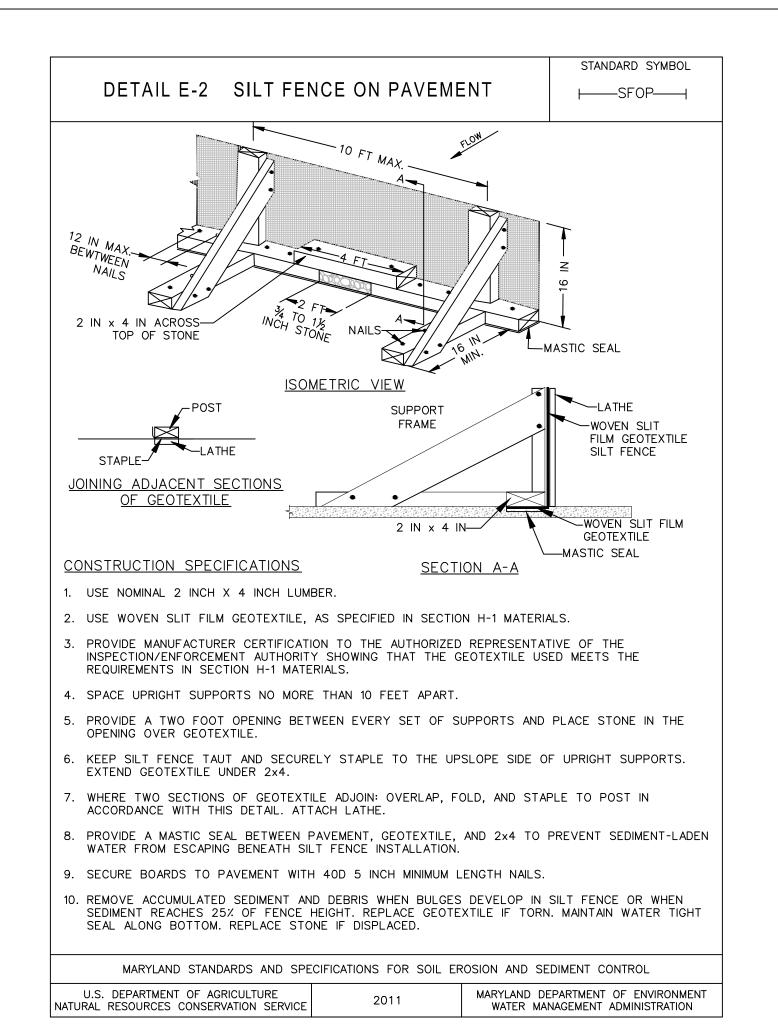


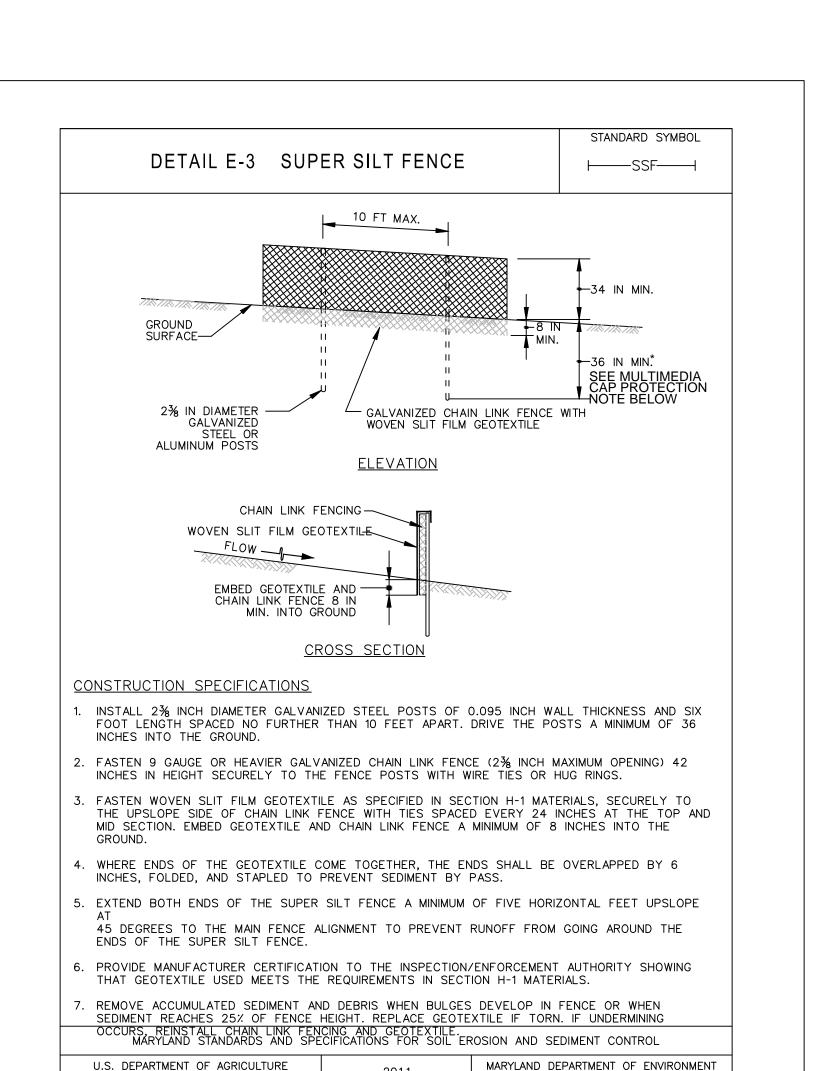




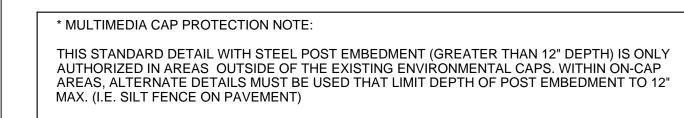


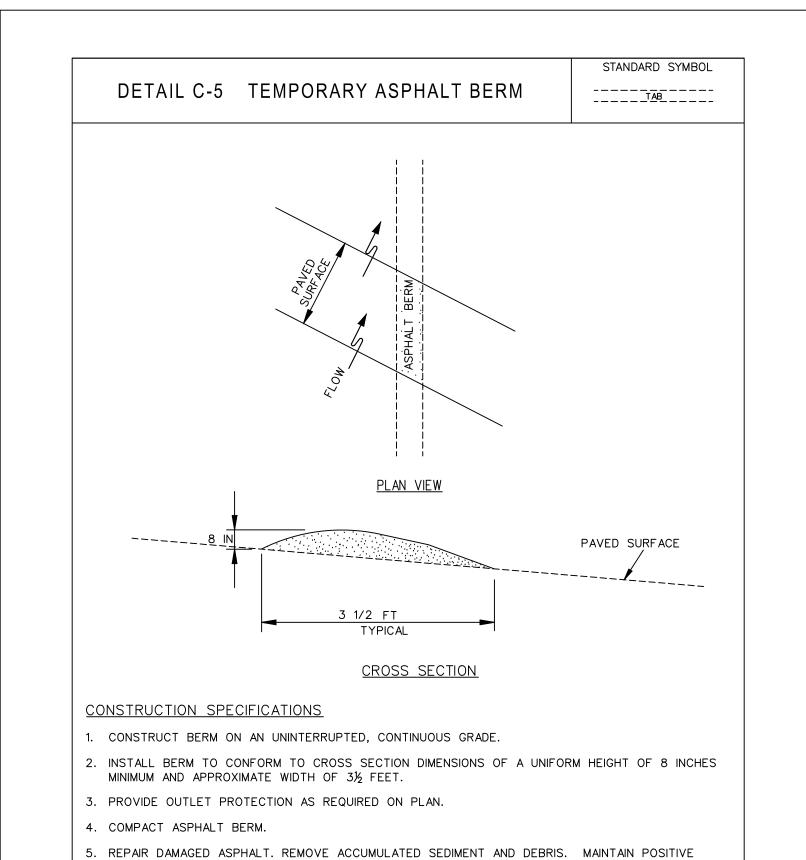






NATURAL RESOURCES CONSERVATION SERVICE



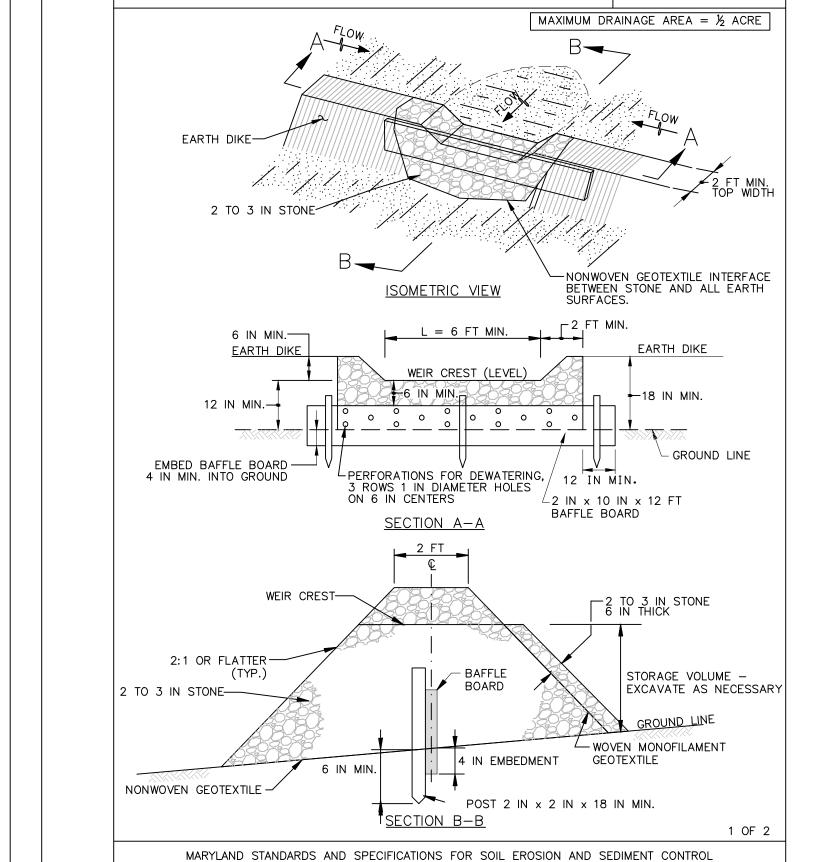


. UPON REMOVAL OF ASPHALT BERM, RETURN TO ORIGINAL CONDITIONS OR AS SPECIFIED ON

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

MARYLAND DEPARTMENT OF ENVIRONMENT

WATER MANAGEMENT ADMINISTRATION



U.S. DEPARTMENT OF AGRICULTURE

ATURAL RESOURCES CONSERVATION SERVICE

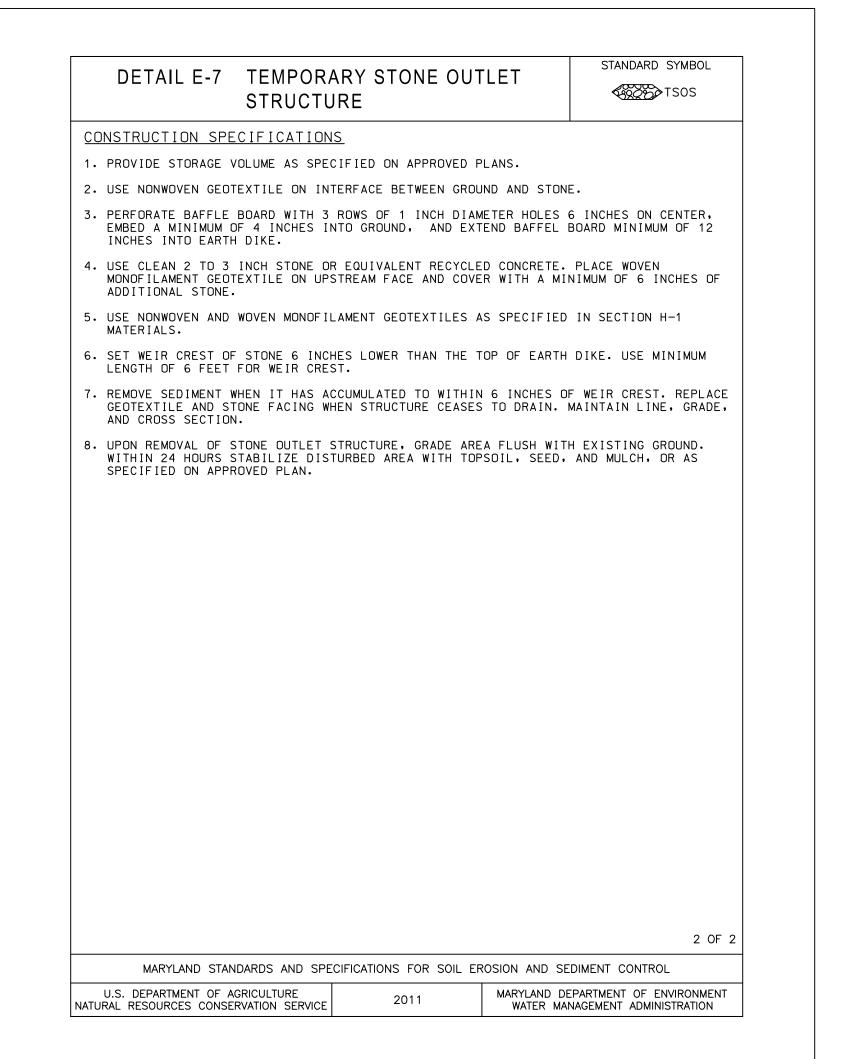
DETAIL E-7 TEMPORARY STONE OUTLET

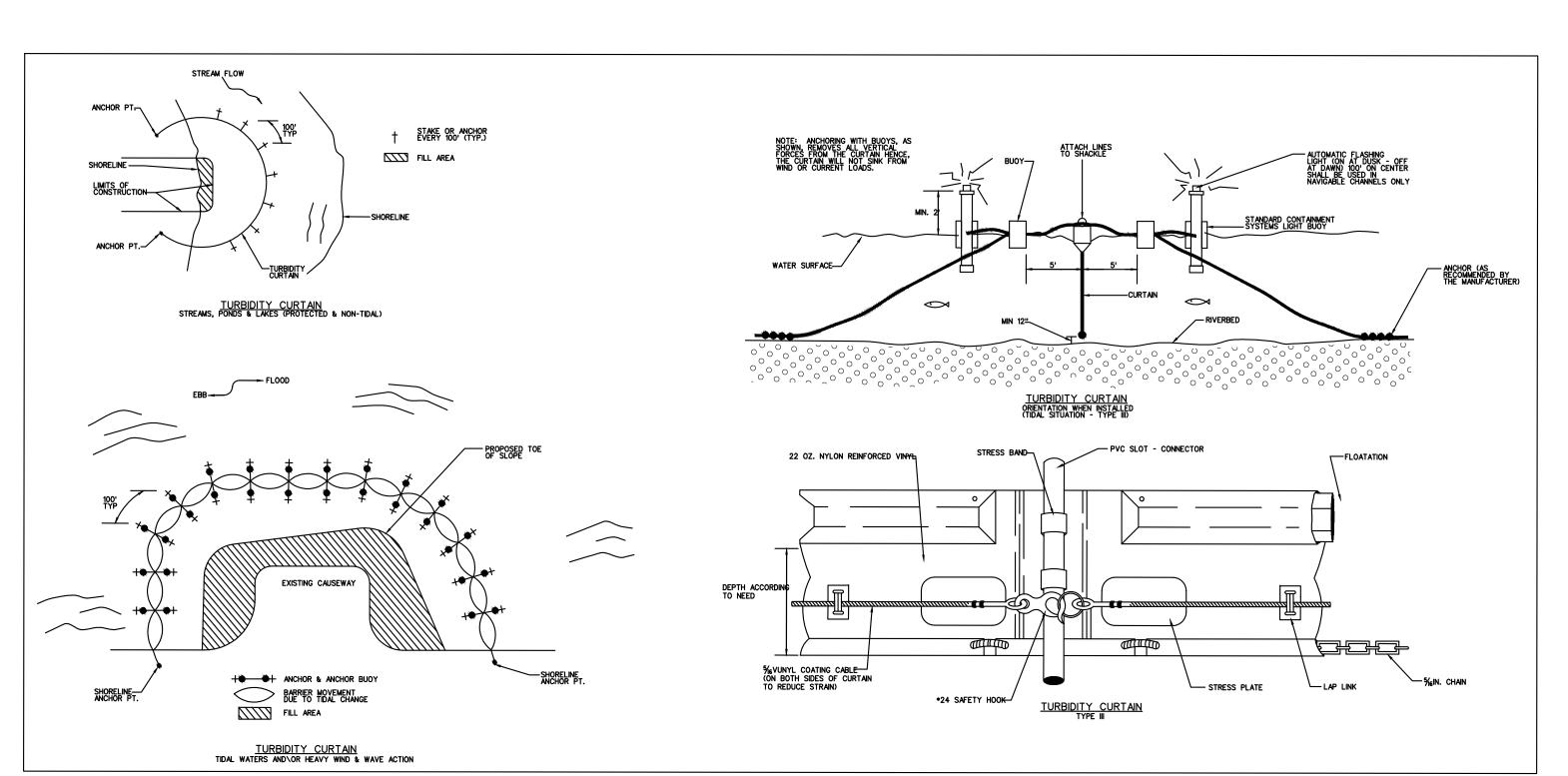
STRUCTURE

STANDARD SYMBOL

MARYLAND DEPARTMENT OF ENVIRONMENT

WATER MANAGEMENT ADMINISTRATION





WATER MANAGEMENT ADMINISTRATION



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> > environmental engineer:

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HARBOR POINT PHASE 1 AREA 1

key plan

description

revision date

EROSION & **SEDIMENT** CONTROL

**DETAILS** drawn by: checked by:

scale:

09738.00 project number:

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APPROVED PLAN.

U.S. DEPARTMENT OF AGRICULTURE

NATURAL RESOURCES CONSERVATION SERVICE

On all disturbed areas not stabilized by other methods. This specification is divided into sections on incremental stabilization; soil preparation, soil amendments and topsoiling; seeding and mulching; temporary stabilization;

Planting vegetation in disturbed areas will have an effect on the water budget, especially on volumes and rates of runoff, infiltration, evaporation, transpiration, percolation, and groundwater recharge. Over time, vegetation will increase organic matter content and improve the water holding capacity of the soil and subsequent plant growth.

Vegetation will help reduce the movement of sediment, nutrients, and other chemicals carried by runoff to receiving waters. Plants will also help protect groundwater supplies by assimilating those substances present

Adequate Vegetative Establishment

Inspect seeded areas for vegetative establishment and make necessary repairs, replacements, and reseedings within the

1. Adequate vegetative stabilization requires 95 percent groundcover.

2. If an area has less than 40 percent groundcover, restabilize following the original recommendations for lime, fertilizer, seedbed preparation, and seeding. 3. If an area has between 40 and 94 percent groundcover, over-seed and fertilize using half of the rates

4. Maintenance fertilizer rates for permanent seeding are shown in Table B.6.

**FOR** 

**B-4-1 STANDARDS AND SPECIFICATIONS** 

**INCREMENTAL STABILIZATION** 

**Definition** Establishment of vegetative cover on cut and fill slopes.

To provide timely vegetative cover on cut and fill slopes as work progresses.

**Conditions Where Practice Applies** 

Any cut or fill slope greater than 15 feet in height. This practice also applies to stockpiles.

Criteria

A. Incremental Stabilization - Cut Slopes 1. Excavate and stabilize cut slopes in increments not to exceed 15 feet in height. Prepare seedbed and apply seed and mulch on all cut slopes as the work progresses.

2. Construction sequence example (Refer to Figure B.1): a. Construct and stabilize all temporary swales or dikes that will be used to convey runoff around

b. Perform Phase 1 excavation, prepare seedbed, and stabilize.

c. Perform Phase 2 excavation, prepare seedbed, and stabilize. Overseed Phase 1 areas as d. Perform final phase excavation, prepare seedbed, and stabilize. Overseed previously seeded

areas as necessary. Note: Once excavation has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions in the operation or completing the operation out of the seeding season will necessitate

the application of temporary stabilization. —EXISTING GROUND \_\_DIKE/SWALE -PHASE 1 EXCAVATION PHASE 2 EXCAVATION PHASE 3 EXCAVATION

Figure B.1: Incremental Stabilization – Cut

B.10

**B-4-3 STANDARDS AND SPECIFICATIONS** 

**FOR** 

SEEDING AND MULCHING

**Definition** 

Conditions Where Practice Applies

Criteria

a. All seed must meet the requirements of the Maryland State Seed Law. All seed must be subject

to re-testing by a recognized seed laboratory. All seed used must have been tested within the 6

months immediately preceding the date of sowing such material on any project. Refer to Table

B.4 regarding the quality of seed. Seed tags must be available upon request to the inspector to

of nitrogen fixing bacteria prepared specifically for the species. Inoculants must not be used

later than the date indicated on the container. Add fresh inoculants as directed on the package.

Use four times the recommended rate when hydroseeding. Note: It is very important to keep

inoculant as cool as possible until used. Temperatures above 75 to 80 degrees Fahrenheit can

chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit

i. Incorporate seed into the subsoil at the rates prescribed on Temporary Seeding Table B.1,

ii. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction. Roll the seeded area with a weighted roller to provide good seed to soil

b. Mulch alone may be applied between the fall and spring seeding dates only if the ground is

c. Inoculants: The inoculant for treating legume seed in the seed mixtures must be a pure culture

d. Sod or seed must not be placed on soil which has been treated with soil sterilants or

frozen. The appropriate seeding mixture must be applied when the ground thaws.

To the surface of all perimeter controls, slopes, and any disturbed area not under active grading.

The application of seed and mulch to establish vegetative cover.

A. Seeding

Specifications

To protect disturbed soils from erosion during and at the end of construction.

verify type of seed and seeding rate.

dissipation of phyto-toxic materials.

weaken bacteria and make the inoculant less effective.

a. Dry Seeding: This includes use of conventional drop or broadcast spreaders.

Permanent Seeding Table B.3, or site-specific seeding summaries.

B.15

B. Incremental Stabilization - Fill Slopes

1. Construct and stabilize fill slopes in increments not to exceed 15 feet in height. Prepare seedbed and apply seed and mulch on all slopes as the work progresses.

2. Stabilize slopes immediately when the vertical height of a lift reaches 15 feet, or when the grading operation ceases as prescribed in the plans. 3. At the end of each day, install temporary water conveyance practice(s), as necessary, to intercept surface runoff and convey it down the slope in a non-erosive manner.

4. Construction sequence example (Refer to Figure B.2): a. Construct and stabilize all temporary swales or dikes that will be used to divert runoff around

the fill. Construct silt fence on low side of fill unless other methods shown on the plans address b. At the end of each day, install temporary water conveyance practice(s), as necessary, to

intercept surface runoff and convey it down the slope in a non-erosive manner. c. Place Phase 1 fill, prepare seedbed, and stabilize.

d. Place Phase 2 fill, prepare seedbed, and stabilize. e. Place final phase fill, prepare seedbed, and stabilize. Overseed previously seeded areas as

Note: Once the placement of fill has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions in the operation or completing the operation out of the seeding season will necessitate the application of temporary stabilization.

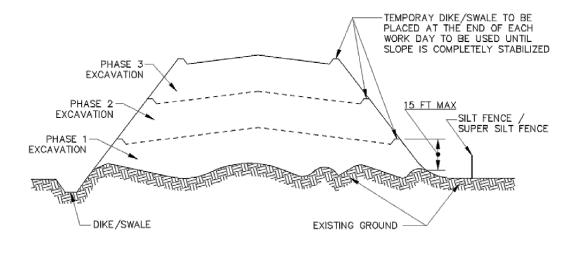


Figure B.2: Incremental Stabilization – Fill

B.11

b. Drill or Cultipacker Seeding: Mechanized seeders that apply and cover seed with soil.

1/4 inch of soil covering. Seedbed must be firm after planting.

200 pounds per acre; K<sub>2</sub>O (potassium), 200 pounds per acre.

time. Do not use burnt or hydrated lime when hydroseeding.

iv. When hydroseeding do not incorporate seed into the soil.

without inhibiting the growth of the grass seedlings.

B.16

2/15 to 4/30; 1/4" - 1/2" 5/1 to 5/31

iii. Mix seed and fertilizer on site and seed immediately and without interruption.

each direction.

1. Mulch Materials (in order of preference)

areas where one species of grass is desired.

processed into a uniform fibrous physical state.

B. Mulching

i. Cultipacking seeders are required to bury the seed in such a fashion as to provide at least

ii. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in

i. If fertilizer is being applied at the time of seeding, the application rates should not exceed

ii. Lime: Use only ground agricultural limestone (up to 3 tons per acre may be applied by

a. Straw consisting of thoroughly threshed wheat, rye, oat, or barley and reasonably bright in

b. Wood Cellulose Fiber Mulch (WCFM) consisting of specially prepared wood cellulose

appropriate color to facilitate visual inspection of the uniformly spread slurry.

ii. WCFM, including dye, must contain no germination or growth inhibiting factors.

i. WCFM is to be dyed green or contain a green dye in the package that will provide an

iii. WCFM materials are to be manufactured and processed in such a manner that the wood

iv. WCFM material must not contain elements or compounds at concentration levels that will

v. WCFM must conform to the following physical requirements: fiber length of

approximately 10 millimeters, diameter approximately 1 millimeter, pH range of 4.0 to 8.5, ash content of 1.6 percent maximum and water holding capacity of 90 percent minimum.

cellulose fiber mulch will remain in uniform suspension in water under agitation and will

blend with seed, fertilizer and other additives to form a homogeneous slurry. The mulch

material must form a blotter-like ground cover, on application, having moisture absorption

and percolation properties and must cover and hold grass seed in contact with the soil

color. Straw is to be free of noxious weed seeds as specified in the Maryland Seed Law and not

musty, moldy, caked, decayed, or excessively dusty. Note: Use only sterile straw mulch in

the following: nitrogen, 100 pounds per acre total of soluble nitrogen; P<sub>2</sub>O<sub>5</sub> (phosphorous),

hydroseeding). Normally, not more than 2 tons are applied by hydroseeding at any one

c. Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer).

Lime Rate

45 lb/ac 90 lb/ac 90 lb/ac 2 tons/ac (1.0 lb/1000 sf) (2 lb/1000 sf) (2 lb/1000 sf) (90 lb/1000 sf)

Application

**B-4-2 STANDARDS AND SPECIFICATIONS** 

SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS

**Conditions Where Practice Applies** 

a. Seedbed preparation consists of loosening soil to a depth of 3 to 5 inches by means of suitable

c. Incorporate lime and fertilizer into the top 3 to 5 inches of soil by disking or other suitable

a. A soil test is required for any earth disturbance of 5 acres or more. The minimum soil

iii. Soil contains less than 40 percent clay but enough fine grained material (greater than 30

b. Application of amendments or topsoil is required if on-site soils do not meet the above

c. Graded areas must be maintained in a true and even grade as specified on the approved plan,

percent silt plus clay) to provide the capacity to hold a moderate amount of moisture. An

exception: if lovegrass will be planted, then a sandy soil (less than 30 percent silt plus clay)

agricultural or construction equipment, such as disc harrows or chisel plows or rippers mounted

on construction equipment. After the soil is loosened, it must not be rolled or dragged smooth

but left in the roughened condition. Slopes 3:1 or flatter are to be tracked with ridges running

The process of preparing the soils to sustain adequate vegetative stabilization.

parallel to the contour of the slope.

i. Soil pH between 6.0 and 7.0.

would be acceptable.

b. Apply fertilizer and lime as prescribed on the plans.

conditions required for permanent vegetative establishment are:

iv. Soil contains 1.5 percent minimum organic matter by weight.

then scarified or otherwise loosened to a depth of 3 to 5 inches.

v. Soil contains sufficient pore space to permit adequate root penetration.

B.12

ii. Soluble salts less than 500 parts per million (ppm).

To provide a suitable soil medium for vegetative growth.

Where vegetative stabilization is to be established.

1. Temporary Stabilization

2. Permanent Stabilization

A. Soil Preparation

a. Apply mulch to all seeded areas immediately after seeding. b. When straw mulch is used, spread it over all seeded areas at the rate of 2 tons per acre to a uniform loose depth of 1 to 2 inches. Apply mulch to achieve a uniform distribution and depth so that the soil surface is not exposed. When using a mulch anchoring tool, increase the application rate to 2.5 tons per acre.

c. Wood cellulose fiber used as mulch must be applied at a net dry weight of 1500 pounds per acre. Mix the wood cellulose fiber with water to attain a mixture with a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.

Anchoring a. Perform mulch anchoring immediately following application of mulch to minimize loss by wind or water. This may be done by one of the following methods (listed by preference), depending upon the size of the area and erosion hazard:

i. A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the soil surface a minimum of 2 inches. This practice is most effective on large areas, but is limited to flatter slopes where equipment can operate safely. If used on sloping land, this practice should follow the contour.

ii. Wood cellulose fiber may be used for anchoring straw. Apply the fiber binder at a net dry weight of 750 pounds per acre. Mix the wood cellulose fiber with water at a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.

iii. Synthetic binders such as Acrylic DLR (Agro-Tack), DCA-70, Petroset, Terra Tax II, Terra Tack AR or other approved equal may be used. Follow application rates as specified by the manufacturer. Application of liquid binders needs to be heavier at the edges where wind catches mulch, such as in valleys and on crests of banks. Use of asphalt binders is strictly

iv. Lightweight plastic netting may be stapled over the mulch according to manufacturer recommendations. Netting is usually available in rolls 4 to 15 feet wide and 300 to 3,000 **B-4-4 STANDARDS AND SPECIFICATIONS** 

d. Apply soil amendments as specified on the approved plan or as indicated by the results of a soil

e. Mix soil amendments into the top 3 to 5 inches of soil by disking or other suitable means. Rake

lawn areas to smooth the surface, remove large objects like stones and branches, and ready the

area for seed application. Loosen surface soil by dragging with a heavy chain or other

equipment to roughen the surface where site conditions will not permit normal seedbed

preparation. Track slopes 3:1 or flatter with tracked equipment leaving the soil in an irregular

soil loose and friable. Seedbed loosening may be unnecessary on newly disturbed areas.

1. Topsoil is placed over prepared subsoil prior to establishment of permanent vegetation. The purpose

is to provide a suitable soil medium for vegetative growth. Soils of concern have low moisture

these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found

a. The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.

b. The soil material is so shallow that the rooting zone is not deep enough to support plants or

a. Topsoil must be a loam, sandy loam, clay loam, silt loam, sandy clay loam, or loamy sand.

Other soils may be used if recommended by an agronomist or soil scientist and approved by the

appropriate approval authority. Topsoil must not be a mixture of contrasting textured subsoils

and must contain less than 5 percent by volume of cinders, stones, slag, coarse fragments,

b. Topsoil must be free of noxious plants or plant parts such as Bermuda grass, quack grass,

c. Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist

and approved by the appropriate approval authority, may be used in lieu of natural topsoil.

b. Uniformly distribute topsoil in a 5 to 8 inch layer and lightly compact to a minimum thickness

c. Topsoil must not be placed if the topsoil or subsoil is in a frozen or muddy condition, when the

of 4 inches. Spreading is to be performed in such a manner that sodding or seeding can proceed

with a minimum of additional soil preparation and tillage. Any irregularities in the surface

resulting from topsoiling or other operations must be corrected in order to prevent the

subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading

content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.

2. Topsoil salvaged from an existing site may be used provided it meets the standards as set forth in

in the representative soil profile section in the Soil Survey published by USDA-NRCS.

3. Topsoiling is limited to areas having 2:1 or flatter slopes where:

furnish continuing supplies of moisture and plant nutrients.

d. The soil is so acidic that treatment with limestone is not feasible.

c. The original soil to be vegetated contains material toxic to plant growth.

4. Areas having slopes steeper than 2:1 require special consideration and design.

5. Topsoil Specifications: Soil to be used as topsoil must meet the following criteria:

Johnson grass, nut sedge, poison ivy, thistle, or others as specified.

formation of depressions or water pockets.

Topsoil Application

gravel, sticks, roots, trash, or other materials larger than 1½ inches in diameter.

a. Erosion and sediment control practices must be maintained when applying topsoil.

B.13

condition with ridges running parallel to the contour of the slope. Leave the top 1 to 3 inches of

**TEMPORARY STABILIZATION** 

To stabilize disturbed soils with vegetation for up to 6 months.

To use fast growing vegetation that provides cover on disturbed soils. Conditions Where Practice Applies

Exposed soils where ground cover is needed for a period of 6 months or less. For longer duration of time, permanent stabilization practices are required.

1. Select one or more of the species or seed mixtures listed in Table B.1 for the appropriate Plant Hardiness Zone (from Figure B.3), and enter them in the Temporary Seeding Summary below along with application rates, seeding dates and seeding depths. If this Summary is not put on the plan and completed, then Table B.1 plus fertilizer and lime rates must be put on the plan.

2. For sites having soil tests performed, use and show the recommended rates by the testing agency. Soil tests are not required for Temporary Seeding.

3. When stabilization is required outside of a seeding season, apply seed and mulch or straw mulch

	aione as	prescribed in Section B	3-4-3.A.1.b and	maintain un	til the next seeding seas	son.
		Ten	nporary Seedin	g Summar	y	
		iness Zone (From Figure B.3): eed Mixture (From Table B.1):	7a		Fertilizer Rate	Lime Rate
No.	Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depths	(10-20-20)	
N/A	Barley (Hordeum vulgare)	96	2/15 to 4/30; 8/15 to 11/30	1.0"		
N/A	Oats (Avena sativa)	72	2/15 to 4/30; 8/15 to 11/30	1.0"	436 lb/ac	2 tons/ac
N/A	Foxtail Millet (Setaria italica)	30	5/1 to 8/14	0.5"	(10 lb/1000 sf)	(90 lb/1000 sf)
N/A	Pearl Millet (Pennisetum glaucum)	20	5/1 to 8/14	0.5"		
			B.18			

### **B-4-5 STANDARDS AND SPECIFICATIONS**

PERMANENT STABILIZATION

Conditions Where Practice Applies

To use long-lived perennial grasses and legumes to establish permanent ground cover on disturbed soils.

Exposed soils where ground cover is needed for 6 months or more.

To stabilize disturbed soils with permanent vegetation.

A. Seed Mixtures

General Use

a. Select one or more of the species or mixtures listed in Table B.3 for the appropriate Plant Hardiness Zone (from Figure B.3) and based on the site condition or purpose found on Table B.2. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The Summary is to be placed on the plan.

b. Additional planting specifications for exceptional sites such as shorelines, stream banks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USDA-NRCS Technical Field Office Guide, Section 342 - Critical Area Planting. c. For sites having disturbed area over 5 acres, use and show the rates recommended by the soil

d. For areas receiving low maintenance, apply urea form fertilizer (46-0-0) at 3 ½ pounds per 1000 square feet (150 pounds per acre) at the time of seeding in addition to the soil amendments shown in the Permanent Seeding Summary.

a. Areas where turfgrass may be desired include lawns, parks, playgrounds, and commercial sites

which will receive a medium to high level of maintenance b. Select one or more of the species or mixtures listed below based on the site conditions or purpose. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The summary is to be placed on the plan.

B.21

i. Kentucky Bluegrass: Full Sun Mixture: For use in areas that receive intensive management. Irrigation required in the areas of central Maryland and Eastern Shore. Recommended Certified Kentucky Bluegrass Cultivars Seeding Rate: 1.5 to 2.0 pounds per 1000 square feet. Choose a minimum of three Kentucky bluegrass cultivars with each ranging from 10 to 35 percent of the total mixture by weight.

ii. Kentucky Bluegrass/Perennial Rye: Full Sun Mixture: For use in full sun areas where

rapid establishment is necessary and when turf will receive medium to intensive

management. Certified Perennial Ryegrass Cultivars/Certified Kentucky Bluegrass Seeding

Rate: 2 pounds mixture per 1000 square feet. Choose a minimum of three Kentucky

bluegrass cultivars with each ranging from 10 to 35 percent of the total mixture by weight.

for areas receiving low to medium management in full sun to medium shade.

Recommended mixture includes; Certified Tall Fescue Cultivars 95 to 100 percent,

Certified Kentucky Bluegrass Cultivars 0 to 5 percent. Seeding Rate: 5 to 8 pounds per

lawns. For establishment in high quality, intensively managed turf area. Mixture includes;

Certified Kentucky Bluegrass Cultivars 30 to 40 percent and Certified Fine Fescue and 60

Select turfgrass varieties from those listed in the most current University of Maryland

Choose certified material. Certified material is the best guarantee of cultivar purity. The

certification program of the Maryland Department of Agriculture, Turf and Seed Section,

Publication, Agronomy Memo #77, "Turfgrass Cultivar Recommendations for Maryland"

iii. Tall Fescue/Kentucky Bluegrass: Full Sun Mixture: For use in drought prone areas and/or

iv. Kentucky Bluegrass/Fine Fescue: Shade Mixture: For use in areas with shade in Bluegrass

provides a reliable means of consumer protection and assures a pure genetic line

Western MD: March 15 to June 1, August 1 to October 1 (Hardiness Zones: 5b, 6a)

(Hardiness Zones: 7a, 7b)

and rake the areas to prepare a proper seedbed. Remove stones and debris over 1½ inches in

diameter. The resulting seedbed must be in such condition that future mowing of grasses will

inch every 3 to 4 days depending on soil texture) until they are firmly established. This is

especially true when seedings are made late in the planting season, in abnormally dry or hot

Central MD: March 1 to May 15, August 15 to October 15 (Hardiness Zone: 6b)

d. Till areas to receive seed by disking or other approved methods to a depth of 2 to 4 inches, level

e. If soil moisture is deficient, supply new seedings with adequate water for plant growth (½ to 1

B.22

Southern MD, Eastern Shore: March 1 to May 15, August 15 to October 15

1000 square feet. One or more cultivars may be blended.

c. Ideal Times of Seeding for Turf Grass Mixtures

pose no difficulty.

seasons, or on adverse sites.

to 70 percent. Seeding Rate: 1½ to 3 pounds per 1000 square feet.

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owner/developer

consultants

PHASE 1 AREA 1

EROSION &

CONTROL GENERAL NOTES

drawn by: checked by: AS SHOWN 09738.00 project number:

ADDITIONAL WARM-SEASON/COOL-SEASON GRASS MIXES:

Species

Coastal Panic Grass

Patridge Pea

Hardiness Zone (From Figure B.3): 7a Seed Mixture (From Table B.3):

be phyto-toxic.

a. In the absence of adequate rainfall, water daily during the first week or as often and sufficiently

to prevent wilting.

c. Do not mow until the sod is firmly rooted. No more than 1/3 of the grass leaf must be removed by the initial cutting or subsequent cuttings. Maintain a grass height of at least 3 inches unless

as necessary to maintain moist soil to a depth of 4 inches. Water sod during the heat of the day

b. After the first week, sod watering is required as necessary to maintain adequate moisture

**Permanent Seeding Summary** 

Lime Rate Application Rate Seeding Seeding (lb/ac) Dates Depths 2/15 to 4/30 60 8/15 to 10/31 1/4" - 1/2" Kentucky Bluegrass 40 2/15 to 4/30 8/15 - 10/31 1/4" - 1/2" 45 lb/ac 90 lb/ac 90 lb/ac (2 lb/1000 sf) 2 tons/ac (90 lb/1000 sf) (90 lb/1000 sf) (90 lb/1000 sf) Perennial Ryegrass 20 2/15 to 4/30 8/15 to 10/31 1/4" - 1/2" 

a. Class of turfgrass sod must be Maryland State Certified. Sod labels must be made available to

b. Sod must be machine cut at a uniform soil thickness of  $\frac{3}{4}$  inch, plus or minus  $\frac{1}{4}$  inch, at the time of cutting. Measurement for thickness must exclude top growth and thatch. Broken pads and torn or uneven ends will not be acceptable.

d. Sod must not be harvested or transplanted when moisture content (excessively dry or wet) may adversely affect its survival. e. Sod must be harvested, delivered, and installed within a period of 36 hours. Sod not transplanted within this period must be approved by an agronomist or soil scientist prior to its

Sod Installation

the subsoil immediately prior to laying the sod.

b. Lay the first row of sod in a straight line with subsequent rows placed parallel to it and tightly prevent voids which would cause air drying of the roots. c. Wherever possible, lay sod with the long edges parallel to the contour and with staggering joints. Roll and tamp, peg or otherwise secure the sod to prevent slippage on slopes. Ensure

solid contact exists between sod roots and the underlying soil surface. d. Water the sod immediately following rolling and tamping until the underside of the new sod pad and soil surface below the sod are thoroughly wet. Complete the operations of laying, tamping

B.23

c. Standard size sections of sod must be strong enough to support their own weight and retain their size and shape when suspended vertically with a firm grasp on the upper 10 percent of the

a. During periods of excessively high temperature or in areas having dry subsoil, lightly irrigate

wedged against each other. Stagger lateral joints to promote more uniform growth and strength. Ensure that sod is not stretched or overlapped and that all joints are butted tight in order to

and irrigating for any piece of sod within eight hours.

B.24

\\BALSRV02\V2009\2009\09164\_HARBORPT\TASK08-EXELON\CADD\PLANS\CD\C8.20 - EROSION & SEDIMENT CONTROL GENERAL NOTES.DWG

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HARBOR POINT

### MAINTENANCE OF SEDIMENT CONTROL DEVICES:

- 1. SCE: SCE MUST BE MAINTAINED IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. THIS MAY REQUIRE ADDING STONE OR A CLEAN SURFACE, THE MOUNTABLE BERM, AND THE SPECIFIED DIMENSIONS. ALL STONE OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS THE WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.
- 2. WASH RACK: THE AREA UNDER THE WASH RACK MUST BE MAINTAINED FREE OF ACCUMULATED SEDIMENT. IF DAMAGED. THE WASH RACK MUST BE REPAIRED OR REPLACED.
- 3. SILT FENCE ON PAVEMENT: ACCUMULATED SEDIMENT AND DEBRIS MUST BE REMOVED WHEN BULGES DEVELOP IN THE SILT FENCE OR WHEN SEDIMENT REACHES 25 PERCENT OF THE FENCE HEIGHT. THE GEOTEXTILE MUST BE REPLACED IF TORN. THE WATER TIGHT SEAL ALONG THE BOTTOM MUST BE MAINTAINED AND THE STONE REPLACED IF DISPLACED.
- 4. SUPER SILT FENCE: ACCUMULATED SEDIMENT AND DEBRIS MUST BE REMOVED WHEN BULGES DEVELOP IN THE SILT FENCE OR WHEN SEDIMENT REACHES 25 PERCENT OF THE FENCE HEIGHT. THE GEOTEXTILE MUST BE REPLACED IF TORN. IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.
- 5. PORTABLE SEDIMENT TANK: REMOVE ACCUMULATED SEDIMENT FROM INNER PIPE WHEN IT REACHES TWO FEET IN DEPTH. IF THE SYSTEM CLOGS, THE INNER PIPE NEEDS TO BE PULLED OUT, ACCUMULATED SEDIMENT REMOVED. AND THE GEOTEXTILE REPLACED. THE POINT OF DISCHARGE MUST BE KEPT FREE OF EROSION.
- 6. EARTH DIKE: THE LINE, GRADE, AND CROSS SECTION MUST BE MAINTAINED. ACCUMULATED SEDIMENT AND DEBRIS MUST BE REMOVED AND POSITIVE DRAINAGE MAINTAINED. THE EARTH DIKE AND POINT OF DISCHARGE MUST BE KEPT FREE OF EROSION AND CONTINUOUSLY MEET THE REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.
- 7. TEMPORARY ASHPHALT BERM: DAMAGED ASPHALT MUST BE REPAIRED. ACCUMULATED SEDIMENT AND DEBRIS MUST BE REMOVED AND POSTIVE DRAINAGE MAINTAINED.
- 8. FILTER LOG: SEDIMENT AND DEBRIS MUST BE REMOVED AND MULCH REPLACED WHEN SEDIMENT HAS ACCUMULATED TO A DEPTH OF ONE HALF OF EXPOSED HEIGHT OF THE LOG. THE FILTER LOG MUST BE REPLACED IF CLOGGED OR TORN. THE FILTER LOG NEEDS TO BE REINSTALLED IF UNDERMINED OR DISLODGED. FOR PERMANENT APPLICATIONS, VEGETATION MUST BE ESTABLISHED AND MAINTAINED SO THAT THE REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE MET IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.
- 9. TEMPORARY STONE STRUCTURE OUTLET: REMOVE SEDIMENT WHEN IT HAS ACCUMULATED TO WITHIN SIX INCHES OF THE WEIR CREST. REPLACE THE GEOTEXTILE AND STONE FACING WHEN THE STRUCTURE CEASES TO DRAIN. THE LINE, GRADE, AND CROSS SECTION MUST BE MAINTAINED.
- 10. STORM DRAIN INLET PROTECTION: TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING ACCUMULATED SEDIMENT NEEDS TO BE REMOVED AFTER EACH RAIN EVENT. IF THE INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE THE GEOTEXTILE AND STONE.

### OWNER'S / DEVELOPERS CERTIFICATION:

I/WE DO HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL PLAN. ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE CERTIFICATION OF ATTENDANCE AT AN APPROVED MARYLAND DEPARTMENT OF ENVIRONMENTAL SEDIMENT AND EROSION CONTROL TRAINING PROGRAM PRIOR TO THE BEGINNING OF WORK AND BALTIMORE CITY'S DPW AND DHCD AND MDE WILL BE ALLOWED RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION.

JONATHAN FLESHER PRINT NAME SIGNATURE 1300 THAMES STREET SUITE 10 BALTIMORE, MD 21231 410-332-1100 TELEPHONE NUMBER ADDRESS

### **ENGINEERS CERTIFICATION:**

I/WE DO HEREBY CERTIFY THAT THIS PLAN FOR EROSION SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED UPON PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED ON ACCORDANCE WITH THE REQUIREMENTS OF THE BALTIMORE CITY SWM/ESC PLANS REVIEW SECTION.

CHRISTOPHER KRUPINSKI DATE SIGNATURE 81 W. MOSHER STREET BALTIMORE, MD 21217 410-728-2900 TELEPHONE NUMBER ADDRESS

## EPA/MDE CONSENT DECREE GENERAL CONSTRUCTION NOTE

CONTRACTOR TO REVIEW THE CONSENT DECREE BY AND BETWEEN THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, THE MARYLAND DEPARTMENT OF THE ENVIRONMENT AND ALLIED-SIGNAL AND ALL AMENDMENTS FOR THE HARBOR POINT SITE, FORMERLY THE ALLIED SIGNAL BALTIMORE WORKS SITE.

CONTRACTOR SHALL REVIEW THE ABOVE REFERENCED CONSENT DECREE PRIOR TO THE BEGINNING OF DEMOLITION, EXCAVATION, CONSTRUCTION, EARTHWORK, GRADING OR UTILITY ACTIVITIES. THE CONSENT DECREE SPECIFIES PROVISIONS FOR CONTAINMENT REMEDIES SUCH AS SITE CAPPING, UTILITY TRENCHING, HEAD MAINTENANCE SYSTEM, SOIL-BENTONITE BARRIER WALL, AS WELL AS HEALTH AND SAFETY PROTOCOLS. TO THE EXTENT POSSIBLE FOR THE CONTRACTOR'S CONVENIENCE, CONSTRUCTION DETAILS HAVE BEEN INCORPORATED INTO THESE PLANS FROM THE CONSENT DECREE. HOWEVER, THE CONSENT DECREE AND ALL ITS AMENDMENTS SHALL SUPERCEDE ANY DETAIL OR INFORMATION DEPICTED ON THESE CONTRACT DRAWINGS. THE CONTRACTOR SHALL FOLLOW ALL GUIDELINES SET FORTH IN THE CONSENT DECREE AND ITS AMENDMENTS FOR ALL CONSTRUCTION RELATED ACTIVITIES ON THE SITE.

### EROSION AND SEDIMENT CONTROL NOTES

- 1. THE CONTRACTOR WILL COMPLY WITH ALL REQUIREMENTS OF SEDIMENT AND EROSION CONTROL AS SET FORTH IN THE MARYLAND SEDIMENT AND EROSION MANUAL AND BALTIMORE CITY CODE ARTICLE 7.
- 2. SUBMIT A WRITTEN NOTIFICATION TO: THE DEPARTMENT OF PUBLIC WORKS, SURFACE WATER MANAGEMENT DIVISION: 3001 DRUID PARK DRIVE, ROOM 228, BALTIMORE, MD 21215, PHONE NUMBER, 410-396-0732, FAX 410-523-9047, SWM@BALTIMORECITY.GOV. AT LEAST 72 HOURS PRIOR TO START OF CONSTRUCTION
  - a. WHEN CONTRACTOR INTENDS TO BEGIN CONSTRUCTION
  - b. DISPOSAL AREA OF SITE MATERIAL
  - c. CONTRACTOR'S TENTATIVE CLOSING DATE.
- 3. INITIAL DISTURBANCE WILL BE LIMITED TO THAT NECESSARY TO GAIN ENTRANCE TO THE SITE AND INSTALL NECESSARY SEDIMENT CONTROLS AS PER THE APPROVED
- 4. ALL SEDIMENT CONTROLS AND CRITICAL SLOPES MUST BE STABILIZED WITHIN THREE CALENDAR DAYS. ALL OTHER INACTIVE DISTURBED AREAS ON THE PROJECT SITE MUST BE STABILIZED WITHIN SEVEN CALENDAR DAYS.
- 5. ALL EXCAVATED MATERIAL SHALL BE PLACED ON THE HIGH SIDE WHENEVER POSSIBLE AND CONFINED TO AN AREA WHERE IT WILL NOT BE OBSTRUCT THE NORMAL COURSE OF DRAINAGE.
- 6. PUMPING OF SEDIMENT LADEN WATER WILL NOT BE ALLOWED UNLESS IT IS FILTERED BY WAY OF AN APPROVED SEDIMENT TRAPPING DEVICE.
- 7. CONTINUOUS INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL DEVICES IS MANDATORY.
- 8. ANY SEDIMENT CONTROL DEVICES DISTURBED DURING UTILITY CONSTRUCTION MUST BE RESTORED IMMEDIATELY.
- 9. ALL POINTS OF INGRESS AND EGRESS SHALL BE PROTECTED TO MINIMIZE TRACKING OF MUD ON TO PUBLIC RIGHT-OF-WAYS.
- 10. ANY EARTH, GRAVEL, AND/OR OTHER MATERIAL TRACKED, SPILLED OR WASHED ON TO ADJACENT ROADS MUST BE IMMEDIATELY REMOVED AND DISPOSED OF IN A PROPER MANNER. NO FLUSHING WILL NOT BE PERMITTED. ALL MATERIAL MUST BE REMOVED BY MEANS OF SHOVELING AND SWEEPING.
- 11. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 5,000 SQ. FT, THE CONTRACTOR SHALL HAVE A BALTIMORE CITY EROSION AND SEDIMENT CONTROL INSPECTOR INSPECT AND APPROVE THE WORK COMPLETED AT THE STAGES OF CONSTRUCTION SPECIFIED BELOW:
  - a.UPON COMPLETION OF THE INSTALLATION OF THE PERIMETER SEDIMENT
  - b.DURING ALL GRADING AND BUILDING OPERATIONS:
  - c.UPON FINAL STABILIZATION OF THE ENTIRE SITE PRIOR TO REMOVAL OF THE SEDIMENT CONTROLS
- 12. THE CONTRACTOR SHALL NOT DEVIATE FROM THE APPROVED SEDIMENT AND EROSION CONTROL PLAN WITHOUT FIRST RECEIVING APPROVAL FROM THE SURFACE WATER MANAGEMENT DIVISION. VARIATIONS TO THE ORIGINAL PLAN MUST BE SUBMITTED IN WRITING WITH ALL PROPOSED MODIFICATIONS STILL BEING HIGHLIGHTED. SUBSTANTIAL CHANGES WILL NECESSITATE AMENDMENT OF THE GRADING /BUILDING PERMIT.

### GENERAL EROSION AND SEDIMENT CONTROL NOTES

- 1. CONTRACTOR SHALL PAY ALL FEES AND OBTAIN ALL PERMITS. THE CONTRACTOR WILL COMPLY WITH ALL REQUIREMENTS OF SEDIMENT AND EROSION CONTROL AS SET FORTH IN THE 2011 MD STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL AND BALTIMORE CITY CODE ARTICLE 7.
- 2. ALL SEDIMENT CONTROLS AND CRITICAL SLOPES MUST BE STABILIZED WITHIN THREE CALENDAR DAYS. ALL OTHER DISTURBED AREAS OF THE PROJECT SITE MUST BE STABILIZED WITHIN SEVEN CALENDAR DAYS.
- 3. BALTIMORE CITY SURFACE WATER MANAGEMENT DIVISION MUST BE NOTIFIED IN WRITING OF WHERE ANY EXCESS MATERIAL WILL BE DISPOSED OR WHERE ANY BORROWED MATERIALS WILL COME FROM.

## BALTIMORE CITY SEDIMENT CONTROL NOTES

- 1. TITLE 4, SUBTITLE I ENVIRONMENTAL, ANNOTATED CODE OF MARYLAND AND BALTIMORE CITY ORDNANCE 1013, REQUIRE THAT PROVISIONS TO CONTROL EROSION AND SEDIMENT SHALL BE INCLUDED FOR ALL CITY LAND DISTURBANCE. AS REQUIRED BY STATE LAW, CONSTRUCTION CANNOT BE STARTED UNTIL SUCH EROSION AND SEDIMENT CONTROL PROVISIONS ARE APPROVED.
- 2. THE CONTRACTOR MUST FILTER ALL RUN-OFF AND CONTROL ALL SEDIMENT WITHIN THE PROJECT. ALL WORK MUST COMPLY WITH ALL REQUIREMENTS OF "BALTIMORE CITY CODE ARTICLE 7" AND THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL" AS DISTRIBUTED AND MODIFIED BY THE BALTIMORE CITY SURFACE WATER MANAGEMENT DIVISION.
- 3. NOTHING HEREON RELIEVES THE CONTRACTOR FROM COMPLYING WITH ANY AND ALL OTHER FEDERAL, STATE OR MUNICIPAL REGULATIONS.

## EROSION & SEDIMENT CONTROL SEQUENCE OF OPERATIONS

- OBTAIN PROPER PERMITS.
- CONTRACTOR MUST SUBMIT WRITTEN NOTIFICATION TO: THE DEPARTMENT OF PUBLIC WORKS, SURFACE WATER MANAGEMENT, 3001 DRUID HILL PARK DRIVE. ROOM 228, BALTIMORE, MD, 21215, PHONE 410-396-0732, FAX 410-523-9047, SWM@BALTIMORECITY.GOV, 72 HOURS PRIOR TO START OF CONSTRUCTION STATING:
- A) WHEN CONTRACTOR INTENDS TO BEGIN CONSTRUCTION.
- B) DISPOSAL AREA OF SITE MATERIAL C) CONTRACTOR'S TENTATIVE CLOSING DATE.
- THE CONTRACTOR SHALL NOT EXPOSE MORE EARTH THAN CAN BE STABILIZED WITHIN 24 HOURS, WITH THE EXCEPTION OF BUILDING FOUNDATIONS. THE CONTRACTOR WILL BE RESPONSIBLE FOR DEVELOPING A PHASING PLAN FOR THE FOUNDATION EXCAVATION THAT COMPLIES WITH THE PROJECT MATERIAL—HANDLING AND MANAGEMENT PLAN. THE PHASING PLAN MUST BE APPROVED (BY MDE.
- -. CLEAR AND GRUB THE SITE AS REQUIRED TO INSTALL EROSION & SEDIMEN $^{-1}$ CONTROL DEVICES.
  - INSTALL PERIMETER SUPER SILT FENCE, SILT FENCE ON PAVEMENT, STABILIZED CONSTRUCTION ENTRANCE, TURBIDITY CURTAIN, TEMPORARY ASPHALT BERM, TEMPORARY STONE OUTLET STRUCTURE, FILTER LOG, CLEAR WATER DIVERSION EARTH DIKES, TEMPORARY CONSTRUCTION FENCE & GATES, PORTABLE SEDIMENT TANKS AND INLET PROTECTION.
- CONSTRUCT AND STABILIZE ACCESS ROADS AS NECESSARY.
- BEGIN EXCAVATION TO BOTTOM OF FOUNDATION SYSTEM WITHIN PHASE LIMITS, ALL EXCAVATION SHALL BE HANDLED IN ACCORDANCE WITH THE PROJECT SOIL MANAGEMENT PLAN. SEE THE EXISTING ENVIRONMENTAL CAP PROTECTION NOTE, SHEET C8.00.
- PROVIDE DEWATERING OF EXCAVATION AS NECESSARY TO CONTINUE WORK OPERATIONS. WATER GENERATED WILL BE HANDLED AND DISPOSED OF IN ACCORDANCE WITH SECTION 5, WATER MANAGEMENT, OF THE PROJECT MATERIAL HANDLING AND MANAGEMENT PLAN. AS NOTED IN THE PLAN, THE MAJORITY OF THE SITE RUNOFF WILL REQUIRE COLLECTION, TESTING, AND PROPER DISPOSAL. UNLESS OTHERWISE QUALIFIED AS SAFE TO ENTER THE STORM DRAIN SYSTEM OR THE BAY.
- BEGIN DISCRETE EXCAVATION FOR PILE CAPS AND GRADE BEAMS. INSTALL PILE CAPS. GRADE BEAMS AND BACKFILL. SEE THE EXISTING ENVIRONMENTAL CAP PROTECTION NOTE, SHEET C8.00.
- 10. TEMPORARILY STABILIZE AREAS DISTURBED DURING PHASES OF OPERATIONS.
- 11. CONSTRUCT FOUNDATION WALLS AND SLABS, BACKFILL BUILDING FOUNDATION.
- 12. INSTALL PROPOSED UTILITIES AND SERVICE CONNECTIONS. BEGIN BUILDING CONSTRUCTION. INSTALL THE GREEN ROOF AND RAINWATER HARVESTING SYSTEMS AS FURTHER DESCRIBED BY THE STORMWATER MANAGEMENT SEQUENCE OF CONSTRUCTION, SHEET C9.40. ALL THE WORK IS ABOVE THE CAP.
- 13. PERFORM REMAINING SELECTIVE DEMOLITION AND ROUGH GRADE THE SITE AS NECESSARY FOR ROADWAY AND SIDEWALK INSTALLATION.
- 14. INSTALL PROPOSED ROADWAYS, SIDEWALK AND PROMENADE.
- 15. FINE GRADE AND INSTALL LANDSCAPING.
- 16. UPON COMPLETION OF EARTH DISTURBING ACTIVITIES AND WITH PRIOR APPROVAL FROM THE SEDIMENT CONTROL INSPECTOR, REMOVE EROSION & SEDIMENT CONTROL DEVICES.
- 7. PERMANENTLY STABILIZE ALL AREAS WITH PRIOR APPROVAL FROM THE SEDIMENT CONTROL INSPECTOR, REPLACE EXISTING ROADWAY PAVEMENT OR SIDEWALK DAMAGED OR REMOVED BY EROSION AND SEDIMENT CONTROL DEVICES TO MATCH PRE-CONSTRUCTION CONDITIONS.

## PROJECT NAME AND ADDRESS:

EXELON DEVELOPMENT (HARBOR POINT PARCEL 2) 1000 WILLS STREET BALTIMORE, MD 21231

OWNERS NAME AND ADDRESS: HARBOR POINT LAND, LLC. 1300 THAMES STREET, SUITE 10 BALTIMORE, MD 21231

APPLICANT'S NAME AND ADDRESS: BEATTY DEVELOPMENT GROUP, LLC. 1300 THAMES STREET, SUITE 10 BALTIMORE, MD 21231 C/O JONATHAN FLESHER

DESIGNER'S NAME, ADDRESS AND PHONE NO .: RUMMEL, KLEPPER & KAHL, LLP. 81 W. MOSHER STREET BALTIMORE, MD 21217 410-728-2900 C/O CHRIS KRUPINSKI



650 S. Exeter Street, Suite 200, Baltimore, MD 2120 Phone 410 752 2759 owner/developer developer:

Beatty Development Group 1300 Thames Street, Suite 10 Baltimore, MD 21231 P 410-332-1100 design consultant:

Elkus Manfredi Architects Boston, MA 02210 F 617.426.7502 P 617.368.331 Tadjer Cohen Edelson & Associates 1109 Spring Street Silver Spring, MD 20910 P 301-587-1820

mep & fp engineer: Vanderweil 625 N. Washington Street Alexandria, VA 22314-1913 P 703-683-9700 foundation engineers Mueser Rutledge Consulting Engineers

civil engineers Rummel, Klepper & Kahl Baltimore, MD 21217-4250 P 410-728-2900

800 Wyman Park Drive, Suite 310 Baltimore, Maryland 21211 Environmental Resources Management 200 Harry S Truman Parkway, Suite 400 Annapolis, Maryland 21401 P 410 266 0006

Mahan Rykiel Associates

**EXELON BLDG &** PLAZA GARAGE

HARBOR POINT PHASE 1 AREA 1 DDP SUBMISSION 8/1/13 (REVISED 11/12/13)

key plan

EROSION & **SEDIMENT** CONTROL

HORIZONTAL AND VERTICAL DATUM ARE BASED UPON BALTIMORE CITY GRID MERIDIAN

Baltimore City Grid Meridian.

- 3. Base plan for foundation drawings developed from information
- A. Phase II construction completion report prepared by Black & Veatch, dated January 2000.
- B. Geotechnical investigations performed by Mueser Rutledge Consulting Engineers in 1988, 1989, 1991, 1999, 1993, 2006
- C. Historic foundation information from Allied Signal.
- D. Flyover survey prepared by Greenhorne & O'Mara, dated April
- E. Existing physical features shown of the various waterfront structures are based on available original design drawings and the 1987 Whitman Requardt Report. Descriptions of existing conditions as revealed by diver and test pit investigations are provided in the 1990 MRCE report "Condition Survey of Waterfront Structures."
- 4. General Contractor shall obtain all state and local permits not provided by Developer before starting construction.
- General Contractor shall verify and mark location of all existing underground utilities and structures within 15 feet of the work before starting construction.
- 2 6. General Contractor shall verify location of all existing underground utilities and structures before starting construction.
- 7. General Contractor shall coordinate all construction activities performed within 50 feet of the Honeywell Transfer Station (HTS) with HTS operations. HTS operations shall take precedence over construction activities.
- 8. Construction is being performed on the surface of a multi-media cap (MMC). The cap shall be preserved for continued functional use. All protective measures shall be taken to prevent contamination of the cap from chromium (soil or groundwater) of oil/fuel product.
- 9. Provide access for the Developer's representatives to all aspects of the work.
- 10. For list of references of available subsurface information see drawing F1.10.

#### Responsibilities:

The following assignment of responsibilities applies to the Work Contained in the F-Series Drawings Only:

- 1. The General Contractor shall be responsible for:
- A. obtaining the required state and local permits, obtain competitive bids for all the work items and award sub-contracts, site access, site security, support sub-contractors as required to move equipment and material around the site, scheduling the various construction activities. providing access to Honeywell Transfer Station, excavation of pits at pile cap locations, test pit program to locate obstructions at pile locations and demolition and excavation of obstructions, disposal of excavated soil, demolition debris and
- B. for maintaining all areas in a neat and unobstructed condition. both during and upon completion of the work. All waste material and construction debris shall become the property of the General Contractor and shall be promptly removed from
- C. engaging the Pile Driving Contractor who shall be responsible for the Sheet Pile Installation, PDA/Indicator Pile Program, Foundation Pile Installation, provide all the required submittals as detailed in the submittal section of the notes, produce a schedule for the pile driving and coordinate this work with other contractors for efficient pile installation.
- D. engaging the Demolition Contractor who shall be responsible or the partial demolition of the superstructure and foundations at the Honeywell Transfer Station, provide all the required submittals as detailed in the submittal section of the notes for review and approval. Demolition contractor shall produce a schedule for the demolition and coordinate this work with other contractors for efficient completion of the
- E. engaging the Surveyor who shall be licensed in the state f Maryland. The Surveyor shall be responsible for pile layout in the field, survey of as-built pile locations and preparation of as-built surveyed pile location plan. The as-built survey of piles shall be performed on a weekly basis during pile driving and partially complete as-built drawing transmitted to the owner on a weekly basis.
- F. retaining a Certified Concrete Testing Facility after approval of qualifications by the Foundation Engineer prior to the first concrete pour.
- conduct a pre-construction condition survey of the HMS system and components. Where pile driving or other ground disturbance below the visual warning layer occurs within 50 feet of the HMS system and components, monitor for proper operation. Where damage is observed, perform repairs without causing interruption to the performance of the HMS system and components.
- 2. The Dynamic Testing Contractor (DTC) will be engaged by the Owner. Dynamic Testing will be performed on each PDA/Indicator Pile by the DTC, in accordance with the requirements of ASTM D 4945. The DTC will provide a report with evaluation of capacity.

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- 3. The Foundation Engineer shall be engaged by the Owner. The Foundation Engineer shall
  - A. prepare driving logs for each Sheet Pile and Foundation Pile and submit pile driving logs to the owner in a timely manner All piles shall be installed under the continuous inspection of the Foundation Engineer or his representative. The Foundation Engineer shall prepare driving records for all Sheet Piles and Foundation Piles consisting of pile identification mark, type, size, and length of pile, pile hammer used, hammer speed and pressure, splice locations and type, tip and cut off elevations, plumbness checks before and after driving, driving resistance per foot, date and time of driving, and any unusua occurrences. Records shall be submitted to the owner after completion of project. Copies of pile driving logs, notes & daily field reports shall be made available for inspection by
- B. review the report from the DTC and arrive at a Pile Driving Criteria for the particular pile hammer to be used for the installation of Foundation Piles
- C. provide construction inspection of membrane isolation, nembrane restoration and pile cap construction.

#### <u>General:</u> Earthwork:

- 1. Excavation will be advanced through a multimedia cap into a former industrial facility. Foundations and slabs of the former facility remain in place. Ground and groundwater below the
- 2. Protect the multimedia cap (MMC) from mechanical damage (puncture, overloading, bearing capacity failure, tearing, cutting, etc.) and chemical contamination (cross-contamination by soil or debris mingling, groundwater discharge to MMC surface, etc.).
- 3. Treat excavated spoils as if they are contaminated with hexavalen chromium; demolish, handle, and manage debris in accordance with the Materials Management and Handling Plan (MMHP).
- 4. Protect side slopes of excavation from raveling as a result of pile driving vibrations erosion etc. If side slopes ravel cease excavation to prevent disturbance of geomembrane. Adjust excavation slope to protect MMC against raveling.
- 5. Materials excavated from above the geomembrane may be stockpiled for re-use on site
- 6. Remove obstructions which conflict with pile elements and pile cap elevations as provided on the Contract Drawings.
- Decontaminate or cover excavation and demolition tools before removing them from a contaminated area. Use heavy duty polyethylene plastic to isolate contaminated soil from clean soil during excavation and loading operations. For further details refer \_to\_MHMP.
- 8. Place clean cover soil to cover site.
- 9. Collect rain water and groundwater from excavations. Prevent water from rising to the base of the capillary break gravel. Convey rain water to holding tanks with double wall pipe; water in the outer pipe wall shall be collected and removed
- 10. Material density in place will be tested by the Developer using ASTM D6938 "Standard Test Method for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)", and/or ASTM D1556 "Standard Test Method for Density and Unit Weight of Soil in Place by the Sand-Cone Method".
- 11. The Developer will review test results and authorize the General Contractor to dispose, re-use, or purchase materials. The Owner will designate disposal management method and disposal
- 12. Cover all stockpiles and temporary debris collections
- 13. Apply moisture as required to control visible dust.
- 14. Segregate synthetic materials from soil for disposal. The Warning Layer, Cover Geotextile, and drainage net (above geomembrane) shall be managed separate from geomembrane and underlying
- 15. Remove, handle, segregate, and replace rip rap removed for foundation construction

- 1. Submit for Developer approval more than 10 work days before performing work:
- A. Imported Materials: Provide 5 gallon minimum bulk sample and perform physical testing of particle size distribution ASTM D422, and moisture-density ASTM D698 (5 points minimum).
- B. Provide materials delivery tickets daily
- 2. Submit for Developer approval within 5 work days after performing the work in any area:
- A. Survey elevation of existing geomembrane at four locations at each pile cap and survey elevation of repair geomembrane at two locations below each pile cap.
- B. Record plan fill drawing indicating final grades.

#### Equipment:

- Use a flat bucket without teeth, and labor as required, to prevent ntermixing of materials upon excavation.
- 2. After excavating, handling, or transporting potentially contaminated materials, cover or decontaminate demolition and excavation tools before removing from the excavation.
- 3. Decontaminate trucks, loaders, or other equipment used to transport excavation spoils between material type duties.

#### <u>Materials:</u>

- 1. Capillary Break Stone source shall be approved by the Owner and conform to the following:
- A. Consist of hard, strong, durable, sub-rounded to well-rounded particles of granite, granitic gneiss or diorite stone, free of roots, trees, stumps, concrete, construction debris, organic matter and other deleterious materials.
- B. Meet the aradation requirements set forth by the Maryland Department of Transportation (MDOT) Standard Specifications for Construction and Materials or AASHTO M43, No. 57 aggregate as given below and as determined by ASTM C136:

<u>Sieve Size</u>	<u>Percent Passing</u>
1 ½"-inch	100
1"-inch	95 to 100
3″−inch	
½"−inch	25 to 60
<u>3</u> ″ −inch	
No. 4	0 to 10
No. 8	0 to 5

- C. Washed free of particles passing the No. 200 sieve.
- 2. Select Granular Fill Natural sand and gravel products of the excavation or MDOT Graded Aggregate Subbase containing no more than 5% retained on the  $\frac{3}{4}$  inch sieve and containing less than 12% by dry weight passing the No. 200 sieve
- 3. Select Structural Fill Natural sand and gravel products of the excavation, or MDOT Graded Aggregate Subbase containing less than 12% by dry weight passing the No. 200 sieve; or MDOT Crusher Run Aggregate CR-6, containing not more than 15% by dry weight passing the No. 200 sieve.
- Protective Stone Barrier / Utility Bedding Blend by total weight 25% Select Structural Fill and 75% of AASHTO M34, No. 1 coarse agaregate to obtain a uniform gradation.
- 5. Separation Geotextile Non-woven geotextile, 10 oz. per square yard or heavier.
- 6. Lightweight Fill Coarse expanded shale aggregate such as "Solite®" produced by the Northeast Solite Corporation, having a maximum uniform particle size of  $\frac{3}{4}$  inch. The aggregate shall be free from organic matter, clay, coal, limestone, shale or other deleterious materials, compacted unit weight shall be greater than 55 but not more than 65 pounds per cubic foot under standard Proctor compaction effort
- Rigid Insulation Extruded Polystyrene Board, Type IV Rigid Cellular Polystyrene, 1.6 pounds per cubic foot minimum density, 2 inch
- 8. Flowable Fill Portland cement and fly ash pozzolanic mortar fill.
- Soil-Bentonite Backfill A mix of bentonite slurry, clean onsite soils, dry SW-101 bentonite. Thoroughly mix to achieve uniform consistency with soil clods less than  $\frac{1}{4}$  in size, meeting the following requirements:
- A. SW-101 Bentonite as manufactured by WYO-BEN, Inc.
- B. Slump of 4" min. to 6" max.
- C. Calculate and mix dry SW-101 bentonite to be 3% by dry weight of the backfill. Add bentonite slurry to achieve specified
- D. Backfill Gradation meeting the following criteria:

Sieve Size	Percent Passing
3"	100
3* 4	85–100
#4	65-95
#40	35-75
#200	20-35

- E. Sample and test to confirm an in-place permeability of 1x10-7 cm/sec or less.
- F. Backfill should be free of all deleterious materials including: organics, construction debris, and refuse, etc
- 10. Imported materials shall be obtained from an environmentally clean source approved by the Owner and qualify as clean imported Fill Material under the MDE voluntary cleanup program. Test samples shall be taken from stockpiles prepared for import. Provide supplie certification and submit analytical test data documenting tha materials are free of chemical and organic contamination
- 11. Contaminated or otherwise unsuitable materials delivered and placed shall be removed and replaced without compensation and without
- 12. Excavation spoils and imported materials shall be stored at the locations and in the manner indicated on the Contract Drawings with Owner approval.
- 13. Manufactured materials shall be handled and stored in accordance with manufacturer recommendations. UV sensitive materials shall be covered and protected in storage.
- 14. Materials which the Owner suspects may be contaminated shall be handled separately from materials which are clean

#### <u>Utilities:</u>

- 1. Close and abandon utilities servicing the site as indicated on the Contract Drawings. Coordinate closure with utility companies and owners, maintain service to neighboring properties. Remove all utilities encountered within the excavations to the limits of the excavation. Fill and cap utility pipes or conduits abandoned in place. Dispose removed utility pipes, etc.
- 2. Locations and dimensions of utilities shown on the Contract Drawings are approximate. Other utilities may exist at unknown locations and depths. Utility locations and depths shall be verified by the General Contractor prior to performing excavation and
- 3. Do not excavate below surface of protective concrete barrier in utility corridors.
- 4. Place backfill at new utilities in accordance with the requirements for each utility company. Use natural sand and gravel products of the excavation for controlled backfill around utilities
- 5. Place protective stone barrier / utility bedding in lifts 8 inches in maximum loose thickness and compact with vibratory compactor.

#### Controlled Backfill:

- Place and compact fill in lifts 8 inches in maximum loose thickness natural sand and gravel products of the excavation, and imported materials in a controlled manner to the lines and grades indicated on the Contract Drawings.
- 2. Compact all materials placed to obtain:

compaction criteria.

- A. 95% standard Proctor maximum dry density below pile supported subgrade;
- B. 98% standard Proctor maximum dry density below slab-on-grade;
- C. 98% standard Proctor maximum dry density for all trench
- D. Crushed stone shall be tamped or rolled in place, as access allows; E. 98% standard Proctor maximum dry density for street and
- sidewalk backfill. Controlled fill which fails to meet the compaction criteria shall be re-compacted, reworked, wetted etc. as necessary to achieve
- 4. The Owner will test the density of soil in place to demonstrate proper compaction of fill. At least one sand cone test with moisture content determination will be performed adjacent to a nuclear density meter reading for each five nuclear density meter readings, no fewer than once weekly during fill operations to confirm nuclear density readings. Minimum testing includes:
  - A. One density test for each 5,000 square feet of each lift placed, but not less than one for every 150 cubic yards of Controlled Fill placed:
  - B. One test for every 75 cubic yards of utility trench backfill;
  - C. Testing is not required of capillary break or crushed stone

#### Quality Assurance / Quality Control:

- 1. The General Contractor shall be responsible for: Quality Control of all materials and installation work; protection of completed work. and for documenting that the work meets the minimum requirements of the Contract Drawings. The General Contractor shall designate an experienced Quality Control Manager, and shall delegate the responsibility and authority to the Quality Control Manager to control materials and work processes, and confirm and document the work.
- 2. The General Contractor shall provide support for sampling and testing, and shall provide access to the Work area for Owner inspection, sampling, and testing.
- 3. The Owner will provide for stockpile sampling, excavation, and controlled fill construction.

#### Instrumentation and Monitoring Notes:

#### Pre-Construction Condition Survey:

Pre-construction condition survey documenting existing conditions of the Transfer Station tank and tanks and connections mechanical room and mechanical connections shall be performed prior to demolition and pile

#### <u>Optical Survey:</u>

- 1. The existing Transfer Station tank pad and equipment room shall be optically monitored for lateral and vertical movement (Northing, Easting and Elevation). Monitor two points each side of the tank pad and floor areas at min. 25 ft. spacing. On exterior walls monitor at two different levels to determine slope of wall. Reference readings to a stable horizontal control. Survey accuracy shall be 1/16" accuracy or better.
- 2. Masonry Survey Nails (PK Nails) shall be placed at each corner of vaults V-1 V-2 V-11 and V-12
- Survey of ground surface above existing soil—bentonite hydraulic barrier is not required after steel sheet pile is installed to augment barrier. Place and survey PK Nails at 25 ft. spacing above barrier centerline if sheet pile is not installed
- 4. Baseline reading shall consist of at least three consistent survey readings of each monitoring point prior to demolition or pile installation. Survey monitoring points daily when driving piles within 100 ft. of survey point. Take final reading after all piles within 100 ft. have been installed. Provide reading table computing vertical movement within 24 hours of each survey. Increased frequency of reading may be required depending on data trends.
- 5. A "threshold value" of 0.125 inches settlement and a "limiting value" of 0.25 inches settlement shall be established.

#### Crack Gage Monitoring:

- 1. Install and baseline crack monitoring gages on any cracks observed on the inside walls or floor of the Transfer Station tank pad. Three baseline readings shall be taken prior to demolition or pile
- 2. Record outside temperature, and time of reading daily during pile
- 3. Provide data to Foundation Engineer within 24 hours of reading.
- 4. A "threshold value" of 1 mm and a "limiting value" of 2 mm shall be established.

#### Vibration Monitoring:

- 1. Provide calibrated seismograph tri-axial geophones and monitor vibrations (peak particle velocity and frequency) when pile installation occurs within 50 feet of the following structures:
- A. Transfer Station tank pad
- B. Transfer Station mechanical room
- C. Vault
- D. Living Classroom
- 2. Vibration monitoring at ground surface above existing soil-bentonite hydraulic barrier is not required after steel sheet pile is installed to augment barrier.
- 3. The geophones monitoring the tank pad and mechanical room shall be anchored to the concrete floor slab. Geophones monitoring the Living Classroom and the vault shall be sandbagged on to the ground surface directly adjacent to the structures. Sandbag must be filled with loosely filled material such as sand. The sandbag should be as low and wide as possible with maximum amount of firm contact with the around.
- Seismographs shall be installed and monitored one hour prior to pile installation daily. Seismographs shall record vibrations continuously during periods of all pile driving activity.
- 5. Seismographs shall be capable of recording peak particle velocity and frequency as 1 minute histograms and provide full waveforms for events above threshold limits. 6. Seismographs shall be equipped with a wireless broadband modem
- allows automatic alerts to designated field personnel when vibrations exceed the pre-established threshold value. 7. A "threshold value" of 1.0 in/sec and a "limiting value" of 2.0 in/sec shall be established for the hydraulic barrier and vault. A "threshold value" of 0.5 in/sec and a "limiting value" of 1.0

which enables remote communication with the seismograph and

### Exceedances:

mechanical room.

If the displacement of any monitoring point exceeds the "threshold value" during pile installation the Engineer, Pile Driving Contractor, Construction Manager, Developer and approved third parties shall be notified and the nile installation method shall be modified to prevent further exceedance.

in/sec shall be established for the Transfer Station tank pad and

2. If the displacement of any monitoring point exceeds the "limiting value" during pile installation the Engineer, Pile Driving Contractor, Construction Manager, Developer and approved third parties shall be notified. Stop pile driving and revise methods. Inspect condition of structures (see Item 1 above). Seal any new or opened cracks in Tank Pad with epoxy grout.

#### Submittals:

#### Surveyors:

- 1. Provide name and qualifications of Surveyor licensed in the state of Maryland.
- 2. Provide a Plan Drawing showing locations and ID of the benchmark/control points and monitoring points.
- 3. Provide a table giving the x, y, and z coordinates of optical

#### Vibration Monitoring Contractor:

- 1. Provide name and qualifications of the Vibration Monitoring Contractor. Submit qualifications of the Contractor demonstrating performance of at least 5 projects of similar scope within 5 years.
- 2. Provide a resume for the technician indicating at least 3 years' experience in the field of engineering and construction monitoring.
- 3. Provide a summary report of vibration readings giving distance of seismograph from pile driving and Pile ID for each record.

#### **Demolition Notes:**

- All demolition shall be performed in accordance with these Contract Documents and all applicable laws and codes, including but not limited to those of the City of Baltimore and the State of
- 2. It is the responsibility of the demolition contractor to obtain all required permits and file all required notices.
- This contract requires demolition of a portion of the Transfe Station building and the protection of the remainder of the Transfer Station building, the Transfer Station is a one— and two-story steel frame building. The portion to be demolished is the two-story Office Building portion.
- 4. The Tank Room, and Mechanical Room are to remain. All Tank Room, and Mechanical Room and structures and components must be protected during demolition.
- The demolition shall be performed in sequence shown on this drawing. Stage 1 demolition shall be performed, piles and pile caps installed and then stage 2 demolition shall commence.
- 6. The Transfer Station is supported on spread foundations
- The spread foundations and slabs-on-grade bear on fill soils over a concrete mud mat. The fill soils and concrete mud mat are the upper layers of a multi-media cap.
- All elements of the multi-media cap must be protected from damage at all times. The multi-media cap shall not be punctured.
- Contaminated materials shall not be placed above the multi-media
- 10. All utilities that cross beneath the Office Building from the HMS Vault in the Wills Street sidewalk to the Mechanical Room must be protected during demolition and pile driving.
- 11. Available drawings for the Office Building are provided in these contract documents.
- 12. All demolition products are the property and responsibility of the

#### Submittals:

#### Demolition Contractor:

demolition contractor.

- Provide name and qualifications of the Demolition Contractor. Submit qualifications of the Contractor demonstrating performance at least 5 projects of similar scope over the previous 5 years.
- Provide a resume for the lead Supervisor indicating at least 3 years' experience with similar projects.
- 3. Demolition Details, Sequence and Schedule.
- 4. Detailed information on Demolition Equipment to be used.



design consultant:

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**EXELON BLDG &** 

PLAZA GARAGE

environmental engineer

HARBOR POINT PHASE 1 AREA **DDP SUBMISSION** 8/1/13

**REVISED 11/12/13** 

GENERAL AND TECHNICAL

NOTES

PROGRESS SET

NOTFOR CONSTRUCTION

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welded.

- 2. Steel Pipe Piles shall be of size shown on drawings and shall be in conformance with ASTM A252 Grade 3 Fy=45 ksi with tips seal
- 3. All steel Pipe Piles shall be driven to the required capacity and to the minimum tip elevations shown on drawings. The drawings indicate the estimated pile length based on advancing the piles to Sand Stratum S4. However, subsurface soil investigations have been made and data is available from the engineer for general information. The contractor shall interpret for himself the subsurface soil and rock conditions.
- 4. Piles shall be driven with a variable stroke hammer delivering a rated energy range of 50,000 to 120,000 foot-pounds, such as the Delmaa D46-32 or similar, and shall be capable of achieving the pile capacity indicated considering: hammer impact velocity; ram weight; stiffness of hammer and pile cushions; cross section, length, and total weight of pile; and character of subsurface material to be encountered, without damaging the pile. The pile hammer shall be subject to prior approval by the Developer.
- 5. Piles shall be driven within 3 inches of the plan location. Piles shall not be out of plumb or specified batter by more than 2 percent.
- 6. Required Minimum Allowable Load for the 18 inch OD Pipe Piles is 287 tons and 16 inch OD Pipe Piles is 250 tons.
- 7. Pile Cutting and Splicing
- A. Perform all welding in accordance with AWS D1.1. Only use welders auglified by tests prescribed in AWS D1.1.
- B. Piles damaged by driving at pile head and cut off to permit further driving shall be extended by splicing as approved by the engineer.
- C. Ends of piles to be spliced shall be squared before splicing
- D. Splices shall develop the full structural strength of the member
- E. Pile Installation using followers is not permitted
- 8. Pile driving operations shall not be conducted within 50 feet of any freshly placed concrete until a minimum 72 hours setting time has
- 9. Each pile shall be marked by painting horizontal lines at one-foot intervals and the number of feet at five-foot intervals. Piles shall be marked in inches in the upper length to facilitate determination of driving resistance.
- 10. Any pile out of tolerance may be rejected. If rejected, it shall be replaced by another pile or piles, at locations specified by the engineer.
- 11. Obstructions shall be removed or penetrated by means as approved by the engineer.
- 12. Tops of pile shall be cut level. The cut shall be neat and clean. All cutoff lengths shall become the property of the contractor and shall be removed from the site.
- 13. Jetting of piles is not permitted. Prior to ordering pile material and start of production pile installation, the Pile Driving Contractor shall execute the PDA/Indicator Pile Program as detailed below:

## Pile Load Testing (PDA) and Indicator Pile Pogram:

- 1. Piles to be installed in this program are indicated on the Plan
- D 4945. Perform dynamic testing for the full length of pile driving and one restrike effort for each pile driven.

2. Perform dynamic testing of each test pile in accordance with ASTM

- 5. Dynamic test equipment, instruments, assembly, recorders, analysis programs, and reporting shall comply with ASTM D4945. Attach two strain transducers and two accelerometers to the top of each test pile, as indicated in Part 5.2 of ASTM D4945. Pile driving analyzer and accessories shall be manufactured by Pile Dynamics, Inc. or approved equal.
- 4. Dynamic testing equipment shall have been calibrated within 6 months of use. Supply all power needed for operating the
- 5. Restrike each test pile more than 24 hours after driving. Warm hammer up prior to restrike driving. Apply energy / blows as for the original driving. Stop driving after obtaining 3 inches of pile penetration. In the event the pile butt movement is less than 1/4 inch during restrike with full energy, the restrike may be terminated after 20 blows.
- 6. For restrike, use a hammer setting and a cap block which are computed to produce acceptable driving stresses at absolute refusal.
- 7. Analyze test readings to interpret pile load capacity. For each test pile, record and provide:
- A. Kinetic energy developed by the hammer
- B. Transferred energy (or efficiency) from hammer to pile
- C. Maximum impact velocity at pile top
- D. Maximum acceleration at pile top
- E. Maximum compression force in pile
- F. Maximum tension force in pile
- G. Capacity evaluation at end of driving
- H. Capacity evaluation at beginning re-strike
- 8. Submit a report summarizing the dynamic testing and analysis to the Foundation Engineer. Evaluate pile tip elevations for maximum allowable axial pile load, hammer energy.
- 9. Foundation Engineer will define production pile driving resistance

### Concrete:

- 1. All concrete work shall be in accordance with the latest edition of ACI 318, "Building Code Requirements for Structural Concrete."
- 2. Concrete shall be air—entrained stone concrete (see note 16 below) with a minimum compressive strength (f'c) of:
- A. 4000 psi at 28 days for pile fill
- B. 6000 psi for the Honeywell Transfer Station Transfer Pad Slab walls and Grade Beams. Concrete shall contain fiber reinforcement. The fiber shall be virgin nylon Type monofilament. white color, 3/4" long (uniform size).
- C. 8000 psi at 28 days for all pile caps The cement used shall be Type II Portland Cement. Potable water shall be used. Aggregates used shall meet the requirements of ASTM C33 and maximum size shall be 3/4 inch.
- General pile cap concrete shall have a maximum water-cementicious material ratio of 0.40. The slump shall be between 3 and 5 inches (without water reducers or plasticizers).
- Concrete shall contain an approved admixture to provide 6% plus or minus 1% air entrainment.
- All admixtures used shall be approved by the engineer. Admixtures containing chemical chlorides shall not be used.
- Concrete mix shall be designed by the contractor in accordance with the ACI Manual of Concrete Practice and submitted to engineer for approval.
- Concrete reinforcing steel bars shall be deformed new billet steel conforming to ASTM A615. Grade 60.
- 8. Concrete Reinforcing Bars used as dowels at the Concentric Pile to Column connection at the Plaza Garage shall be epoxy coated.
- 9. Development and splice lengths for reinforcing steel shall be based on latest edition of ACL 318. Building Code Requirement for reinforced concrete. Reinforcement splices shall be tension lap splices Class B.
- 10. Unless noted minimum concrete cover to reinforcing bars shall be 1.5 inch, for concrete placed against earth concrete cover shall be
- 11. All exposed concrete corners shall have a minimum of one inch chamfer, cut at 45 degrees.
- 12. Expansion joint filler shall be pre-molded.
- 13. Contractor shall provide shop drawings of reinforcing steel bars to engineer for approval before material procurement and fabrication.
- 14. Concrete samples shall be collected by a certified testina facility and compressive strength tests performed at 7 days, 14 days, and 28 days. One set of samples shall be collected for each 25 cubic yards of concrete placement or a minimum of one set of samples per day.
- 15. No equipment is to be set on concrete foundations and slabs without written acceptance of the 7, 14 & 28 day break test results by the Foundation Engineer.
- 16. White stone from "Texas Quarry" source shall not be used in foundation concrete.

## Sheet Pile Notes (for sheet pile barrier walls)

- Steel sheeting for sheet pile barrier shall be installed prior to installation of any sheet pile or foundation piles within 30' of the existing soil—bentonite hydraulic barrier.
- Sheet piles are intended as a hydraulic barrier. Sheet piles have been designed carry vertical load along Dock Street.
- 3. Lay out barrier centerline by optical survey.
- 4. All sheet piles:
- A. Shall be heavy gage hot-rolled sheet piling and shall conform to ASTM A 572/A 572M. Grade 50 and of the size shown on drawings. The interlock of sheet piling shall be free-sliding, allow a swing angle of at least 5 degrees when threaded and maintain continuous interlocking when installed. Sheet pilina shall be full-length sections of the dimensions shown.
- B. Shall be provided in pairs, with the pair interlock full length seal
- C. Shall be provided with interlock sealant in one open interlock of each pair for full length of sheet pile.
- 5. Fabrication:
  - A. Sheet pile pairs will be shop seal welded in a horizontal position. Welding procedures, including electrode classification and required preheat temperature, shall be in conformance with AWS D1.1, latest edition. Welders and welding operators shall be qualified by applicable tests as described by AWS D1.1.
- B. All welds shall receive a 100% visual examination by a qualified inspector
- The verticality of the sheet piles shall not deviate from the plumb by more than one percent. Plan location shall be within 3 inches of theoretical.
- Handle steel sheet piling using handling holes or lifting devices. Handle steel sheet piles with care to prevent damage. Support on level blocks or racks spaced not more than 10 feet apart and not more than 2 feet from the ends. Supports between multiple lifts shall be in a vertical plane. Protect steel sheet piling to prevent corrosion prior to installation.
- 8. Pile hammer: Use a pile hammer having a delivered force or energy suitable for the total weight of the pile and the character of SB barrier material to be encountered. Operate hammer at the rate(s) recommended by the manufacturer throughout the entire driving period. Repair any damage to piling caused by use of the pile hammer.
- Pile Protection: Use a protecting cap during driving to prevent damage to the top of the sheet piling.
- 10. Drive templates:
- A. Prior to driving, provide template or driving frame suitable for aligning, supporting and maintaining sheet piling in the correct position during setting and driving. Use a system of structural framing sufficiently rigid to resist lateral and driving forces and to adequately support the sheet piling until design tip elevation
- B. Templates shall not move when supporting sheet piling. Fit templates with wood blocking to bear against sheet piles and hold the sheet pile at the design location alignment. Provide outer template straps or other restraints as necessary to prevent the sheets from warping or wandering from the alignment, or racking along the alignment. Template shall be designed such that it rests on grade. Use of piles to support the template is not permitted. The template shall be two sided.
- 11. Sheet piles completed and driven to final tip elevation may be welded to adjacent completed sheets if required to limit movement of completed sheets.
- 12. Drive sheet piles to the minimum tip elevation(s) shown on the drawinas.
- 13. Do not drive steel sheet piles until debris and other materials have been removed that may interfere with steel sheet pile driving. See Environmental drawings for resolution of conflicts with existing instrumentation.
- 14. Cutting and splicing:

prior to extraction.

- A. Piles driven below the required tip elevation and piles damaged by driving and cut off to permit further driving shall be extended as required to reach the top elevation by splicing as approved by the engineer.
- B. Ends of piles to be spliced shall be squared before splicing to eliminate dips or camber. Splice piles with concentric alignment of the interlocks.
- C. Spliced piles shall be free sliding and able to obtain the maximum swing with contiguous piles.
- D. Splices shall develop the full structural strength of the member.
- 15. Welding: shop and field welding for splicing and other conditions. qualification of welding procedures, welders, and welding operations shall be in accordance with AWS D1.1.
- 16. Remove and replace steel sheet piles found to be out of interlock. out of tolerance, damaged or otherwise deficient.
- 17. Provide Work Plan with Decon Procedure to Developer for Approval
- 18. Trim the tops of piles as needed after driving. Use a straight edge in cutting by burning to avoid abrupt nicks. Steel Sheet Pile cut-offs shall become the property of the Contractor and shall be removed from the site.

## Sealed Sheet Pile Interlocks:

### 1. Material:

- A. Sealant shall be Swellseal Gungrade WA, hydrophilic polyurethane waterstop, manufactured by De Neef Construction Chemicals, Houston, TX. Sealant shall be installed using the dry cure method, in accordance with manufacturer's instructions, or below, whichever is more stringent.
- $\sqrt{2}$ Swellseal will be tested for expansion in fresh water, harbor water and site groundwater by the Engineer. Assist the Engineer with preparation of test samples. Handle all contaminated materials in accordance with the MHMP. Test performance will be submitted for review and approval prior to production. 2. Sealant application:
- A. Steel surface and interlock void to receive sealant shall be free

of oil, moisture, soil, metal shavings, or other contaminants.

- B. Apply sealant and allow to dry cure 72 hours or more prior to driving. Surface temperature shall be above 45F for 24 hours prior and 48 hours after application.
- C. Apply Sealant in an approximately  $\frac{1}{4}$  diameter bead into the interlock recess. Do not tool bead into joint. (Approximate application rate = 2/3 Volumetric ounce per lineal foot: Equivalent to 30 feet per 20 ounce tube). Track sealant supply and confirm application rate for each completed sheet pile interlock.
- D. After air drying, interlocks with sealant applied shall be covered during storage and transport; cover shall remain in place until the pile is lifted for placement. Prior to transport, flip sheets so water is unable to puddle within interlock. Sheets shall remain in this orientation until lifted for placement.
- E. Any holes in the sheets (lifting hole, etc.) below finished grade shall be covered with plate steel and seal welded.
- F. If sealant swells before sheet pile is placed, cover and dry to permit shrinkage, or replace sealant

## Sheet pile installation:

- A. The bottom of each clear interlock shall be plugged to prevent soil entry during driving. Interlock plug shall be tight fitting and secured in place to prevent loss during handling and placement. If the interlock plug is longer than 2", it shall be knocked out/displaced by adjacent sheet.
- B. Any sheet pile with interlock sealant applied shall be placed and driven to final tip elevation within a 4 hour period from the time it is in contact with the water.
- C. Sheets with sealant applied which are not driven to final tip within 4 hours shall be removed and replaced with new sealant
- D. Sheets removed due to 4 hour sealant limit shall have the sealant removed by scraping and replaced with new sealant.

E. If sealant does not adhere to sheet, apply wet sealant prior to

driving sheet further. F. Upon completion of driving sheeting, where surface of soilbentonite barrier has settled below El. 6 along Dock St. or El. 7 along Wills St., backfill with replacement soil-bentonite backfill as shown on Dwg. F1.01 Earthwork notes to the

## Sheet Pile Quality Control

required elevation.

- . Perform continuous inspection during sheet pile driving. Inspect all steel sheet piles for compliance with tolerance requirements. Bring any unusual problems that may occur to the attention of the engineer.
- Maintain a pile driving record for each sheet pile. Indicate on the installation record installation dates and times, type and size of hammer, rate of operation, total driving time, dimensions of driving helmet and cap used, blows required per foot for each foot of penetration, pile locations, pile plumbness, tip elevations, ground elevations, cut-off elevations, splice locations and any reheading or cutting of sheet piles. Record any unusual sheet pile driving problems during driving.
- A. Inspection of Driven Steel Sheet Piling for compliance with tolerance requirements. Bring any unusual problems to the attention of the engineer.
- B. Inspect interlocks periodically. Contractor may be required to pull selected steel sheet piles after driving to determine the condition of the underground portions of the sheet piles. Contract work shall include pulling and redriving/replacement of piles, if necessary, if any pile is found to be damaged.
- C. Remove and replace steel sheet piles found to be out of interlock at no additional cost to the Developer. The sheet pile pulling method must be approved by the Engineer.

## Sheet Pile Notes (for Dock Street and Wills Street sheet pile retaining walls):

- Sheet piles shall be coated with coal tar epoxy or alass flake epoxy to elevation -5.0 on both sides of the sheet pile.
- Provide shoes for sheet piles capable of cutting through synthetic reinforcing layers. Alternately, add 1' to sheet pile length (prior to order) and cut the bottom 6" of sheet at 30 degrees to horizontal to form jagged edge.

### Submittals:

## Pile Driving Contractor:

- 1. The contractor shall develop and submit a work plan for both Sheet Piles and foundation Piles which shall consist of
- A. Construction sequence.
- B. Description of means and methods of construction.
- C. Description of equipment to be used to perform the work.
- D. Safety controls for pile driving equipment material use and
- . Proposed staging and laydown area.
- Equipment Data: Submit complete description of each pile hammer for driving steel Sheet Piles and Foundation Piles, including operational characteristics, rated energy, date of purchase, and date and description of last overhaul. Include data for driving helmets and templates, cap blocks, and pile cushions. Descriptive information

shall include manufacturer's name, model numbers, and capacity.

- 3. Pile Identification Plan: Prior to any pile driving submit a pile identification plan showing pile locations, cut-off elevations, and pile numbering system for both Foundation Piles and Sheet Piles.
- 4. Pile Driving Template: Submit drawings or a detailed description of steel Sheet Pile driving template showing conformance with provisions for templates indicated in the notes.
- 5. Steel Sheet Piles: Submit shop drawings for approval prior to start of the work or ordering materials. Include details of top protection, sealant, cut-off method(s), etc. Include:
  - A. Steel Sheet Pile order lengths.
- B. Shop drawings for Sheet piling, including fabricated sections, shall show complete dimensions including minimum section properties and details of steel Sheet piling and the driving sequence and location of steel Sheet piling.
- C. Include details of the method of handling piling to prevent permanent deflection, distortion, or damage to steel Sheet piling
- D. Proposed sequence for driving all steel Sheet Piles.
- E. Proposed procedure for splicing steel Sheet Piles, including a plan for positioning all field and shop splices and detailed procedures for performing field splices
- F. Work Plan with Pile pulling method and Decon Procedure
- Material Certificates: Certified steel material mill test reports for steel Sheet Pile material and Foundation Pile material. Submit for each shipment identified with specific lots prior to installation. Identification data should include piling type, dimensions, chemical composition, mechanical properties, section properties, heat number, and mill identification mark. Cross referencing between field shipments and stored materials and the submitted material certificates must be made, by referencing heat numbers, mill ID marks, etc., on each truck delivery ticket and on individual field tags, etc.
- 7. Verification of welder auglifications for any field welding.
- 8. Seal weld inspection record for each Sheet Pile pair: certify seal welds prior to delivery to site.
- sealant application prior to driving Sheet Piles.

9. Sealant application, verify application rate and curing time; certify

10. Prepare and Submit "As-built" Record Drawings showing Pile locations and plumbness for both Sheet Piles and Foundation Piles.

## **Dynamic Testing firm:**

pile integrity.

"7 Report" of ASTM D4945.

- Provide name and qualifications of the Dynamic Testing firm. Submit qualifications of the specialty Dynamic Testina firm demonstrating performance of at least 5 projects of similar scope over the previous 5 years, and demonstrating experience in performing analysis, dynamic testing, interpretation of results, and
- Provide a resume for the lead field engineer indicating at least 3 years' experience in installing and operating dynamic testing equipment for similar projects.

analysis and interpretation of dynamic testing.

- 3. Provide a Dynamic Testing Report meeting the requirements of ASTM D 4945 for both original driving and restrike testing. Describe velocity of stress wave propagation, acceleration, evaluation of hammer and driving system performance, driving stress levels, and
- 4. Perform a CAPWAP, or similar, analysis of the dynamic test data on data obtained from the end of initial driving and the beginning of restrike for each test pile to evaluate pile capacity, establish resistance distribution, and quake and damping factors. Estimate pile tip elevation for maximum capacity. Evaluate pile ultimate capacity obtained from dynamic testing.
- Perform a refined wave equation analysis incorporating the results of dynamic testing for each test pile. Include the Pile driving record as an attachment and also address the items listed in paragraph
- 6. Submit the date record of the Pile driving analyzer together with information needed to correlate the records with the respective pile driving record.

### General Contractor:

- Submit Rebar Shop Drawings for all Reinforced Concrete Work detailed in the drawings for review and approval prior to material order or fabrication.
- Rebar Mill Certifications.
- 3. Licensed welder audifications.
- 4. Product or design data for crane with design calculations demonstrating less than 2 KSF bearing pressure imparted onto drainage net.
- 5. Concrete mix design including admixtures used for structural concrete for all the structures.
- 6. Certified concrete testing facility qualifications.
- 7. Concrete and grout strength results from tests performed at 7 days, 14 days, and 28 days.

## <u>Surveyor:</u> Piles As-built Location Survey Plan on a weekly basis for the piles

Record.

- 1. Submit Completed Pile Installation Records to the Developer for
- 2. Submit Daily Field Reports to the Developer on a regular basis.

completed during that week.

BHC ARCHITECTS

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owner/developer Beatty Development Group Baltimore, MD 21231

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mep & fp engineer: Vanderweil 625 N. Washington Street Alexandria, VA 22314-1913 P 703-683-9700 foundation engineers: Mueser Rutledge Consulting Engineers New York, NY 10122 P 917-339-9300

> civil engineers: Rummel, Klepper & Kahl Baltimore, MD 21217-4250 P 410-728-2900 landscape architect: Mahan Rykiel Associates 800 Wyman Park Drive, Suite 310 Baltimore, Maryland 21211 P 410-235-6001

Environmental Resources Management 200 Harry S Truman Parkway, Suite 400 Annapolis, Maryland 21401 P 410 266 0006

EXELON BLDG &

PLAZA GARAGE

HARBOR POINT PHASE 1 AREA <sup>1</sup> DDP SUBMISSION 8/1/13

REVISED 11/12/13

issued date description

revision date description REVISIONS PER EPA/MDE 11/12/2013 10/31/2013 COMMENTS 11/25/2013 REVISIONS PER EPA/MDE

11/22/2013 COMMENTS 12/03/2013 REVISIONS PER EPA/MDE

11/22/2013 COMMENTS

GENERAL AND TECHNICAL

06/14/13 drawn by: checked by: scale: project number:

NOTES

DDP-F1.02

Christopher Wright G:\DWG\$\118\11896\11896a\DDP Drawings\DDP-F1.02.dwg

<u>Installer:</u>

1. All alterations and repairs to the geomembrane shall be performed by an Approved Installation Contractor (AIC) by the International Association of Geosynthetics Installers (IAGI).

<u>Materials:</u>

Procure, maintain, and store the following materials onsite in a location that is dry, level, and readily accessible to the work. While in storage and upon installation, limit synthetic material exposure to moisture, intense heat and sunlight. Storage of synthetic rolled materials on raised supports is not acceptable. Submit samples, material data sheets, and manufacturer testing to the Developer for review and approval no less than 10 work days prior to delivery on site. Compare delivery tickets with the approved submittal for compliance. Non-complying materials will be rejected and shall be removed from the site. 

2. 60 mil Linear Low Density Polyethylene (LLDPE) Geomembrane:

<u>Physical</u> <u>Property</u>	<u>Test</u> <u>Method</u>	Requirement	Manufacturer Testing Frequency	
Carbon Black Content, Percent, (allowable range)	ASTM 1603	2.0-3.0	50,000 ft <sup>2</sup>	
Carbon Black Dispersion, (acceptable level)	ASTM 3015	Grade A-1, A-2 or B-1	Once per 180,000 lbs of resin	
Thickness, mils (minimum average lowest individual)	ASTM D 751 Modified	60 (54)	Each roll	
Density, g/cm <sup>3</sup> (maximum)	ASTM D 15085	0.930	50,000 ft <sup>2</sup>	
Minimum Tensile Properties (each direction)				
Tensile Strength at Break (lb/in. width)	ASTM D 638 Modified	184	50,000 ft <sup>2</sup>	
Elongation Break (percent)		625		
Tear Resistance, Ibs (minimum)	ASTM D 1004 Die C (1988)	24	50,000 ft <sup>2</sup>	
Low Temperature Impact, *C (maximum allowable failure temp.)	ASTM D 746	-60	Once per 1,800,000 lbs of resin	
Dimensional Stability, % (allowable range)	ASTM D 1204 1 hour at 100°C	±3.0	Once per 1,800,000 lbs of resin	
Environmental Stress Crack, hrs (minimum with no failure)	ASTM D 1693 Modified	1500	Once per 1,800,000 lbs of resin	
Puncture Resistance, Ibs (minimum)	FTMS 101C Method 2065	78	50,000 ft <sup>2</sup>	

3. Base Geotextile, Cover Geotextile, and Cushion Geotextile: Manufacturer testing no less than 1 test for each 75,000 square feet manufactured, shall show:

	Manufacturer testing no less than 1 test for each 75,000 square feet manufactured, shall show:				
<u>Property</u>	<u>Method</u>	Manufacturer Minimum Average Roll Value			
Fabric Weight, oz/yd <sup>2</sup>	ASTM D 5261	16			
Grab Strength, Ibs	ASTM D 4632	325			
Grab Elongation, Percent	ASTM D 4632	70			
Trapezoid Tear Strength, Ibs	ASTM D 4533	150			
Mullen Burst Strength, Ibs/in <sup>2</sup>	ASTM D 3786	700			
Puncture Strength, Ibs	ASTM D 4833	195			
Apparent Opening Size, U.S. Standard Sieve — (AOS)	ASTM D 4751	70			
U.V. Resistance (500 hours)	ASTM D 4355	70			

4. Geosynthetic Drainage:

Consists of Cover Geotextile over Geonet as required below.

Geonet: Manufacturer testing no less than 1 test for each 75,000 square feet manufactured, shall show:

<u>Property</u>	Test Method	Manufacturer Minimum Average Roll Value
Resin Density, g/cm <sup>3</sup> (minimum)	ASTM D 1505	0.940
Resin Melt Index, g/10 min (maximum)	ASTM D 1238	1.0
Carbon Black Content, Percent (minimum	ASTM D 1603	2
Thickness, inches (minimum)	ASTM D 1777	0.250
Foaming Agents, % (maximum)	N/A	0
Transmissivity, m <sup>2</sup> /sec (at 2000 psf, gradient 0.1	ASTM D 4716	2.8 x 10 <sup>-3</sup>

5. Geosynthetic Clay Liner (GCL):

 $\sqrt{2}$ 

Shall be a factory manufactured product consisting of a layer of granular sodium bentonite clay encapsulated between two geotextiles. The geotextile shall be held together by needling or by stitching. The granular bentonite shall be continuously adhered throughout the GCL and to the backing material so that no significant displacement of bentonite occurs when the GCL is. cut with a utility knife, punctured, or torn. No disassociation of the backing materials from the bentonite core shall occur.

A Sodium Bentonite:

The bentonite utilized in the manufacture of the GCL, as well any accessory bentonite provided for seaming and detail work, shall be a virgin, first quality product mined and processed specifically for the purpose of manufacturing a GCL. The bentonite producer shall provide certificates of analysis for the montmorillonite content certification, moisture content, fluid loss and swell index for each lot of the bentonite clay to be used in the GCL manufacturing. Manufacturer testing no less than 1 test for each 50,000 square feet manufactured, shows:

		~ * *
<u>Property</u>	Test Method	Manufacturer Test Value
Moisture Content	ASTM D 4643 or 2216	20% maximum as shipped
Fluid Loss	API 13A	18 ml maximum
Free Swell	USP-NF-XVII	22 ml minimum

B. Geotextiles:

The upper carrier geotextile shall be a woven product with a minimum mass per unit area of 3.25 oz/sy, in accordance with ASTM D 3776. The lower carrier geotextile shall be a nonwoven product with a minimum mass per unit area of 6.00 oz/sy, in accordance with ASTM D 3776.

C. Composite Geosynthetic Clay Liner: Manufacturer testing no less than 1 test for each 75,000 square feet manufactured, shows:

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<u>Property</u>	Test Method	Manufacturer Test Value	3
Clay Mass/Area (lb/sf)	ASTM D 5261	1 (at 20% moisture)	
Water Permeability (cm/sec) (5psi maximum effective confining stress)	ASTM D 5084 or GRI-GCL-2	1.0 x 10 <sup>-9</sup> cm/sec	
Grab Strength (lbs)	ASTM D 4632	75	
Grab Elongation (%)	ASTM D 4632	20	
Puncture Resistance	ASTM D 4833	102	

6. Visual Barrier: Shall be durable, non-degradable brightly or lightly colored and shall not impede drainage within cover soil.

7. PVC Piping: Manufacturer testing in accordance with ASTM D2729, Schedule 80, Cell Classifications 12454-B, or 12454-C.

A. Perforated Sections:  $\frac{1}{4}$  inch holes, on one side spacing in accordance with ASTM

Demonstration: 8. Construct a mockup independent of the existing multimedia cap

with complete pile penetration repair/seal. In the presence of MDE demonstrate performance of methods and materials to be leak-free

Geomembrane (GM) Standard GM26. Production:

9. Construct multimedia cap penetrations as indicated on Contract

A. Prior to welding, prepare surface of geomembrane by steam cleaning, hand cleaning or applying an approved solvent to provide adequate welding surface.

with Smoke Test in accordance with Geosynthetics Research Institute

10. Limit exposure of geomembrane to intense heat and sunlight. Place temporary cover over exposed synthetic layers at the end of shift. Do not place permanent cover or fill until approved by Foundation

11. Seal geomembrane cuts, overlaps, and wrinkles with continuous

Installation: 12. Together with the Engineer inspecting the work, observe material during installation, where material appears damaged or compromised, remove material and replace.

13.) Installation of synthetic layers shall be in accordance with MMC )specifications as prepared by Black and Veatch for original construction in all cases except where superseded by these notes and drawings.

Quality Control Testing:

14. Upon delivery of LLDPE Geomembrane, for each roll test Thickness, for each 3,000 square feet test Density, Minimum Tensile Properties, Tensile Strength at Break, Tear Resistance, and Puncture Resistance in accordance with Test Methods shown on Drawing DDP F1.03 Materials Note 2. Reject and remove from the site any materials that do not meet the minimum required test values. Quality Assurance Testing:

15. Perform vacuum chamber testing on each geomembrane penetration, including boot assembly with mechanical clamp and gaskets, and all field welds; in accordance with ASTM D5641. In locations where field vacuum chamber testing is not feasible, perform spark test in accordance with ASTM D6395. In the event a test fails, repair all holidays and leaks, re—test to demonstrate acceptance. Provide a summary of testing to Developer.

16.)Submit to the Developer for approval no less than 20 work days prior to delivery on site, samples, technical data sheets, and manufacturer's quality control testing of all proposed synthetic materials for geomembrane penetration repairs and MMC cap Component replacement.

17. Submit results of quality control testing to the Developer for review and approval no less than 1 work day prior to use on site.

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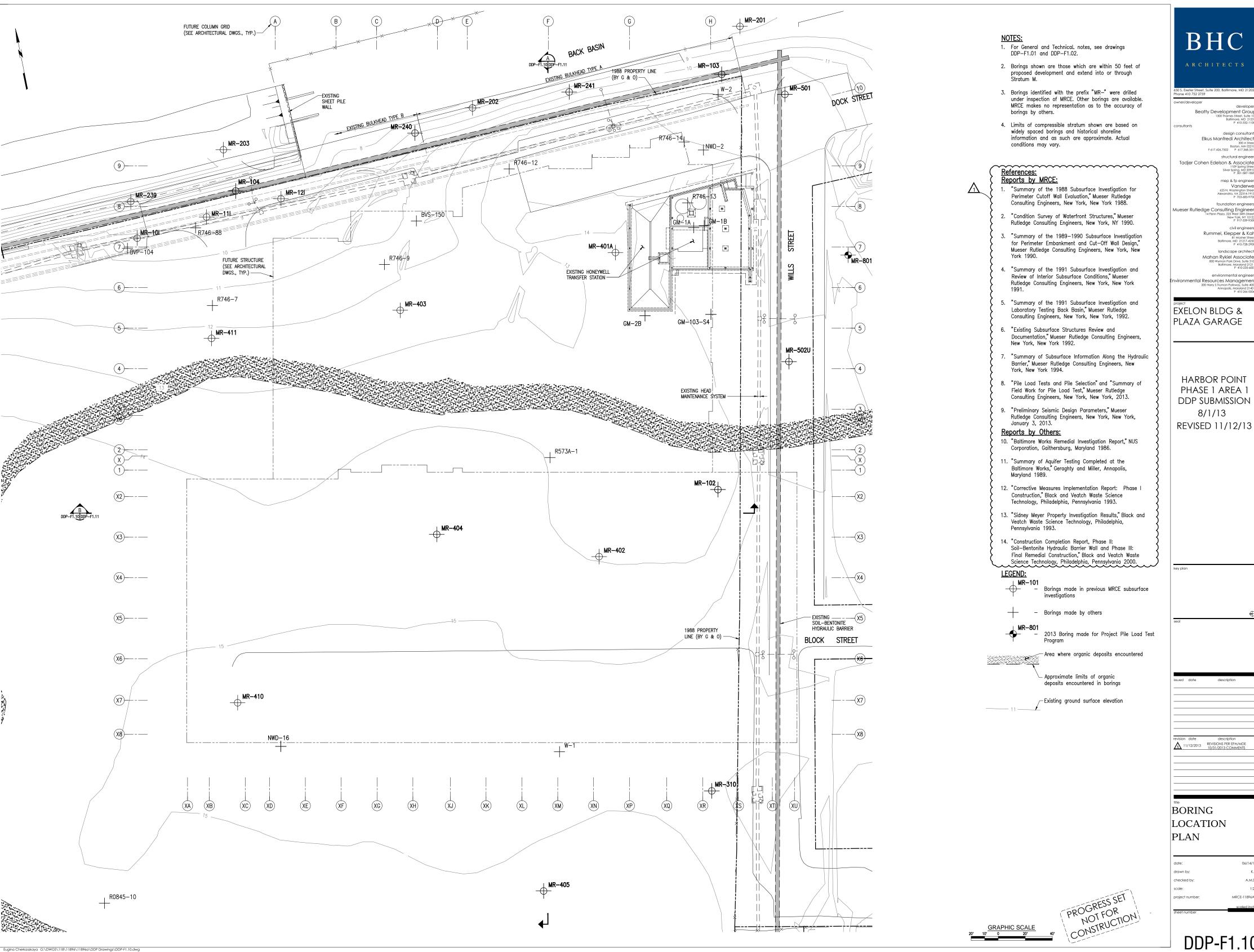
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EXELON BLDG & PLAZA GARAGE

HARBOR POINT PHASE 1 AREA 1 **DDP SUBMISSION** 8/1/13 REVISED 11/12/13

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GENERAL AND TECHNICAL NOTES



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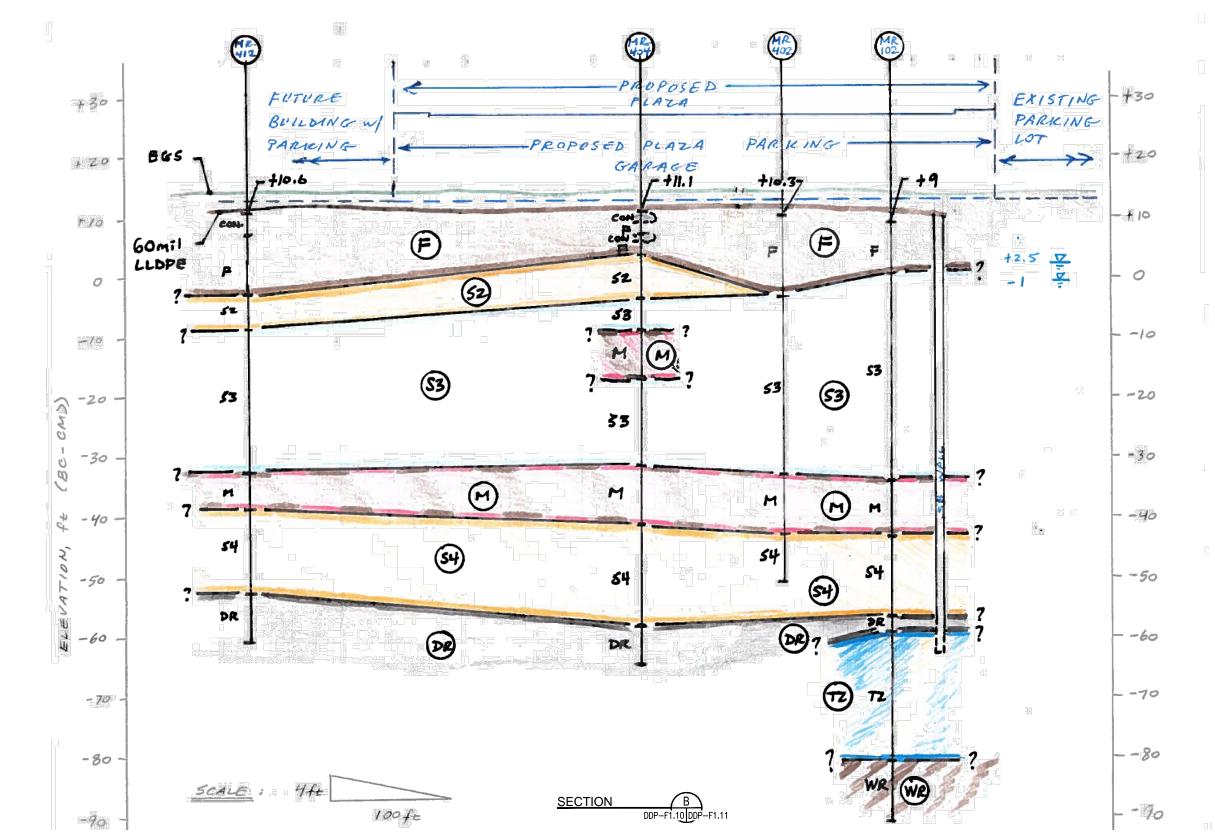
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8/1/13

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Mahan Rykiel Associates

BORING LOCATION PLAN



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#### NOTE

1. For General and Technical notes, see drawings DDP-F1.01 and DDP-F1.02

#### GENERAL STRATA DESCRIPTIONS

Fill. Compact red-brown to gray silty fine to coarse sand, gravel and cinders. may consist of clay and silt, construction debris, oyster shells, wood, coal, ore tailings, and other miscellaneous materials.

Black Organic Silty Clay. Soft black organic silty clay to clayey silt, trace fine sand, wood.

Gray Silty Fine Sand. Loose to compact dark gray silty fine sand, to fine sand trace to some silt, and containing a trace of mica and organic matter.

Gray Sand. Compact gray line to coarse sand, trace to some gravel, trace silt. Stratum S-2 sand is outboard of the original shoreline. Green and yellow coloration may be present, presumably due to the presence of chromium.

White Clayey Silt. Very compact white clayey silt, some fine sand, to sandy silt. In some areas Stratum M consists of a hard mottled white and red brown silty clay, trace sand. Red-brown materials exhibit higher plasticity than the white.

White Silty Sand. Very compact white to light gray-brown fine to medium sand, some silt, and silty fine sand. Yellow to yellow-green coloration present in some areas, presumably due to the presence of chromium.

White Sand and Gravel. Very compact white to pink-gray coarse to fine sand and gravel, to fine to coarse sand, some gravel, trace silt. Stratum S-4 may contain cobbles.

Decomposed Rock. Yellow-brown clayey fine to coarse sand. Relict rock structure visible in some samples.

Transition Zone. White fine to coarse sand within a white clayey silt matrix, and gray green and brown fine to coarse sand, trace to some silt.

BHC

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800 Wyman Park Drive, Suite 310 Baltimore, Maryland 21211 P 410-235-6001 environmental engineer: nental Resources Management

EXELON BLDG & PLAZA GARAGE

HARBOR POINT PHASE 1 AREA 1 DDP SUBMISSION 8/1/13

REVISED 11/12/13

date description

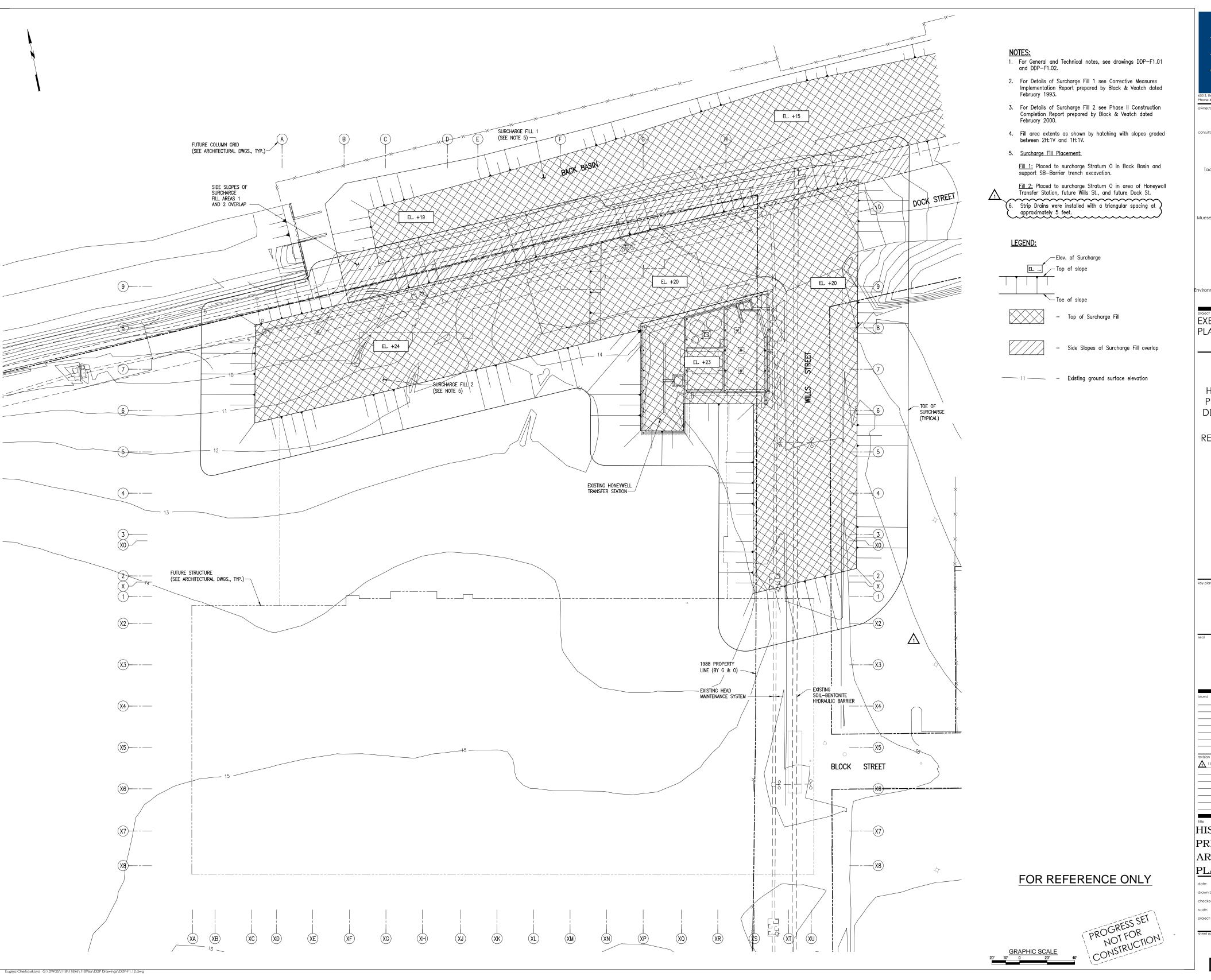
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11/12/2013 REVISIONS PER EPA/MDE 10/31/2013 COMMENTS

GEOLOGIC SECTIONS

date: 06/14/13
drawn by: E.C.
checked by: A.M.D.
scale: AS SHOWN
project number: MRCE-11896A

PROGRESS SET NOT FOR CONSTRUCTION



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EXELON BLDG & PLAZA GARAGE

HARBOR POINT PHASE 1 AREA 1 DDP SUBMISSION 8/1/13 REVISED 11/12/13

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A 11/12/2013 REVISIONS PER EPA/MDE 10/31/2013 COMMENTS

HISTORIC PRE-LOAD AREAS PLAN

date: 06/14/13

drawn by: K.J.

checked by: A.M.D.

scale: 1:20

project number: MRCE-11896A



- 1. For General and Technical notes, see drawings DDP-F1.01, DDP-F1.02 and DDP-F1.03.
- 2. Obstructions may be encountered at any pile location.
- 3. Demolish and remove obstructions and materials to obtain sufficient depth for pile cap and MMC below pile cap, as shown on drawing DDP-F1.30.
- 4. At pile cap: where obstruction demolition or removal is not feasible (as approved by Owner), relocate piles to avoid obstruction. Owner will re-design pile cap to support columns.
- 5. At concrete slab on piles: piles have been laid out based on theoretical location of existing timber bulkhead, timber piles and timber tie back frame. The spacing shown between the piles is maximum. The Owner will re-design concrete slab and grade beams and additional piles based on obstructions encountered during pile installation.
- 6. At concentric pile: demolish concrete obstructions and remove timber piles necessary to place new pile at designated location. (concentric pile: Plaza Garage, Point St. Deck, Wills St. Deck)
- 7. See Material Handling and Management Plan, July 2013, by ERM.
- 8. At Existing Junction Box, Cement bollards and pad around junction box to be removed during elevation change to the box (See DDP-EN1.06).

#### LEGEND:



Pile Cap and/or Pile Potential Obstruction

- MSE Wall

	Existir	ng Foundations
Structure Number	Structure Name	Foundation Type Description (All dimensions and elevations shown are approximate)
1	Tramway	No Foundation Information Available
2	Chromic Acid Solution Storage	Reinforced Concrete Slab (no piers). Two 25' diameter tanks rest on 26.5' diameter 15" thick concrete slabs. Smaller tank rests on 22.75' diameter 15" thick concrete slab
3	Container Warehouse	No Foundation Information Available
4	Stores Building	Perimeter of building supported on 1' wide wall footing with 2'x2'x1' spread footings spaced at 20' . Interior column footings 4'x4'x'1'. 6" reinforced concrete floor slab first floor EL. 10.7
5	Chrome Processing Facilities	No Foundation Information Available
6	Boiler House	No Foundation Information Available
7	Engineering Cafeteria	Perimeter walls N-S direction 1'1" wall footing bearing on 3'3"x3'3"x1'0" spread footings spaced of 16' approximately
8	Truck Scale	Reinforced concrete vault with 8" wide walls. Vault is 4' deep.
9	Guard House	No Foundation Information Available
10	Water Tank Hydrant House	No Foundation Information Available
11	Locker Building	2'1" wide spread footing around perimeter of building with interior column footings. Column footings are 5'6" x 5'6"x 1' at base. First floor ha 4" concrete slab
12	Locker Medical	No Foundation Information Available
13	Main Office and Laboratory	1'1" wide wall footing; 2'6"x2'6"x1' spread footings; 4'x4'x1' column footings



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ronmental Resources Management

**EXELON BLDG &** PLAZA GARAGE

HARBOR POINT PHASE 1 AREA 1 DDP SUBMISSION 8/1/13 REVISED 11/12/13

POTENTIAL OBSTRUCTIONS PLAN

PROGRESS SET NOT FOR CONSTRUCTION



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EXELON BLDG & PLAZA GARAGE

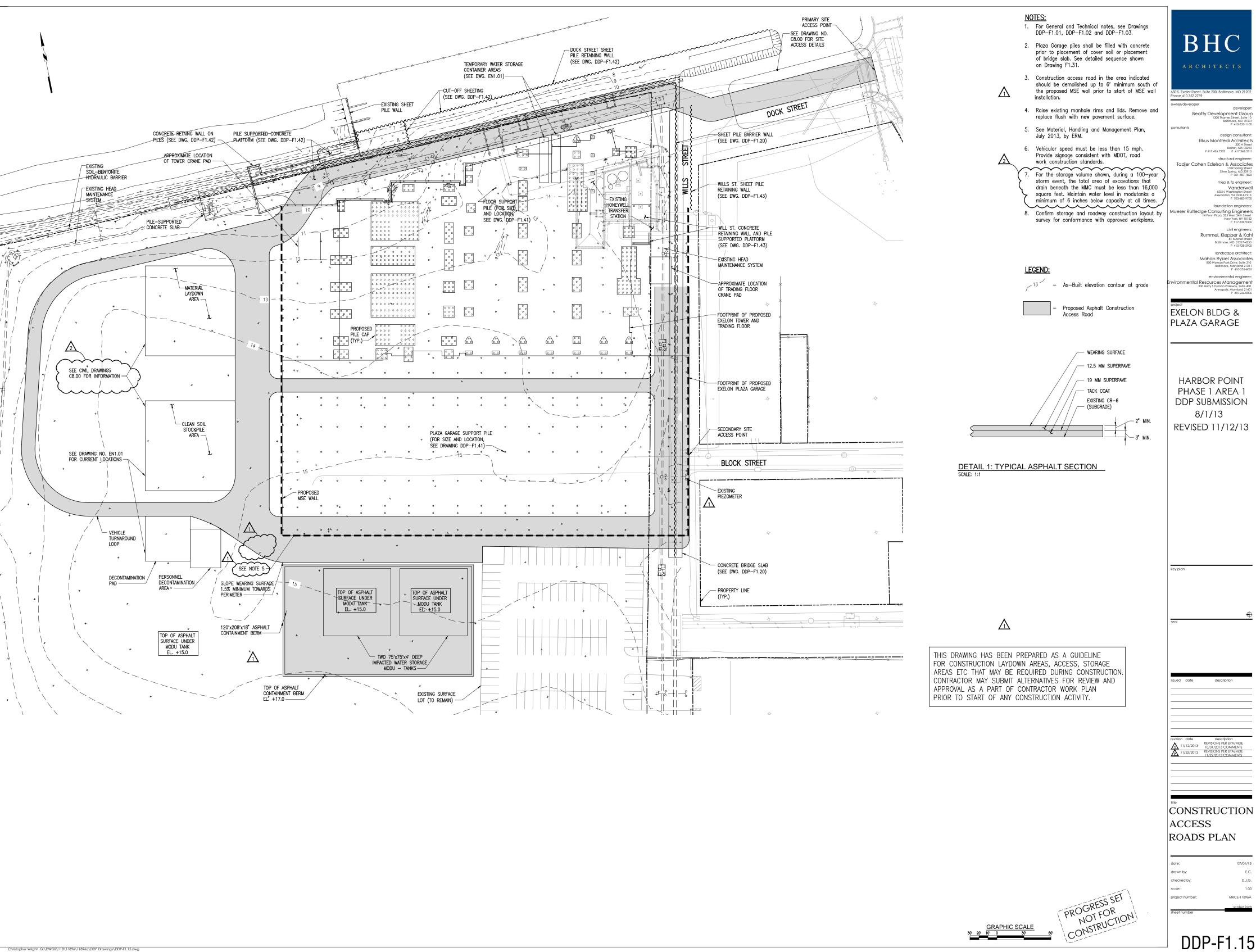
HARBOR POINT PHASE 1 AREA 1 DDP SUBMISSION 8/1/13 REVISED 11/12/13

revision date description

11/12/2013 REVISIONS PER EPA/MDE 10/31/2013 COMMENTS

FOUNDATION EXCAVATION AREAS PLAN

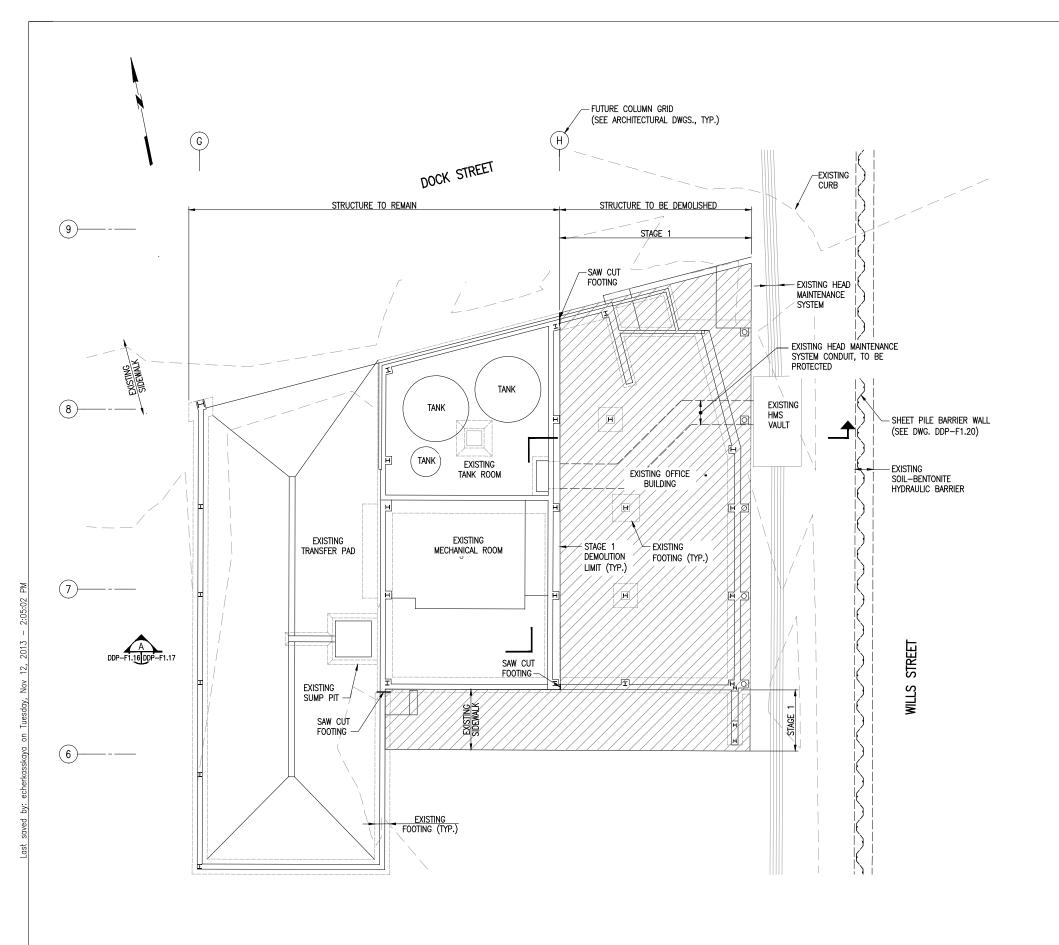
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E.C.

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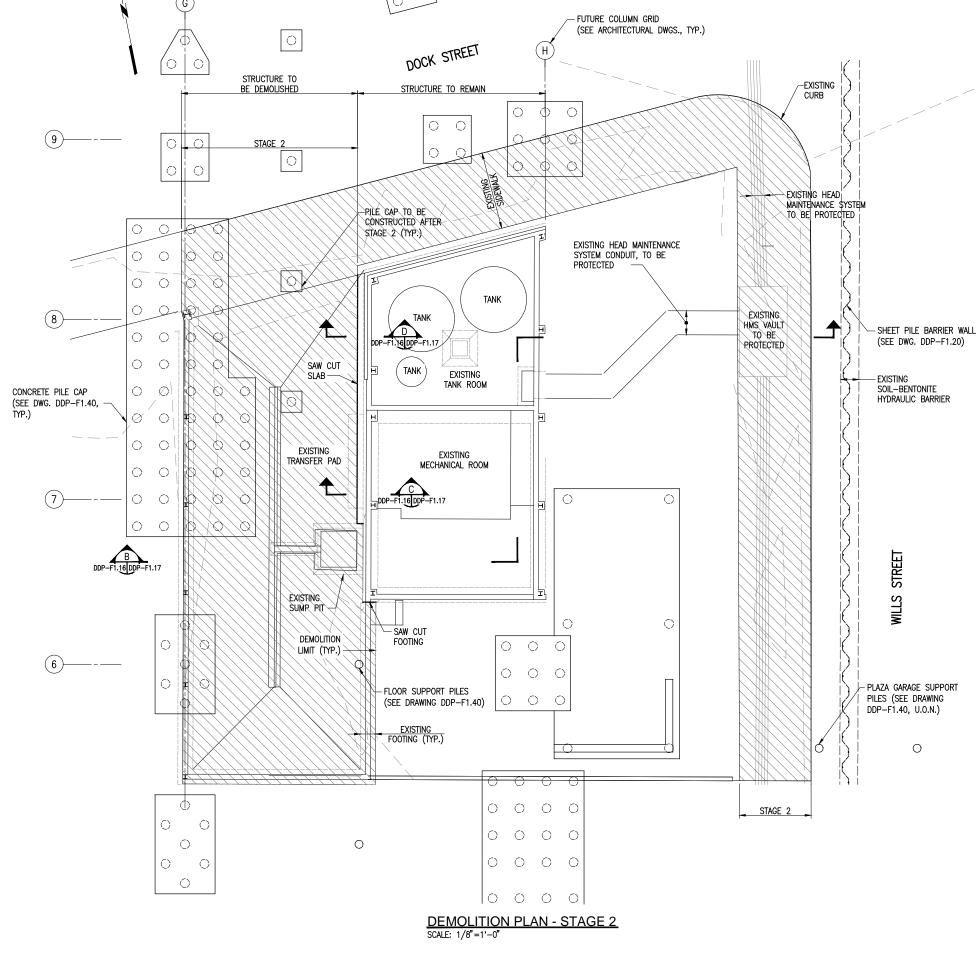
#### DEMOLITION PLAN - STAGE 1

#### Stage 1 Demolition Sequence:

1. Contract for performance of a hazardous materials assessment of the Stage 1 and 2 demolition areas by a licensed hazardous materials assessor. Provide three copies of a written report prepared by the licensed hazardous materials assessor summarizing the findings/3 weeks prior to demolition.

- Prior to the start of demolition, remove all hazardous materials identified in the assessment, if any, from the stage 1 demolition areas including but not limited to asbestos, fluorescent light tubes, fluorescent light fixtures. Dispose of all hazardous materials in accordance with all applicable codes and laws.
- Provide water line to supply water for dust control during demolition. Control dust at all times.
- 4. Protect multi-media cap from damage at all times.
- 5. Perform demolition in a careful manner so as to not damage the Tank Room, Mechanical Room and Transfer Pad which are to remain.
- Demolish Office Building from the top down, removing the roof, then the second floor elements, then the first floor elements.
- 7. Cut structural steel at Stage 1 Demolition Limit Line.
- 8. Remove the structural steel columns to the tops of the pedestals; cut off anchor bolts and grind flat.
- 9. Prior to ground floor slab demolition, cut openings in slab at four corners and center.
- 10. Hand—excavate to top of multi-media cap at slab openings and determine thickness of soil above mud mat. Record this

- information for use during slab demolition.
- 11. Cut three openings in slab above Head Maintenance System (HMS) conduits at west, center and east areas of slab.
- 12. Hand excavate through slab openings to expose HMS conduits.
- Secure HMS conduits prior to slab demolition to protect conduits from demolition activities.
- 14. Remove slab by jackhammer.
- 15. Saw cut north and south wall footings at the locations indicated.
- 16. Remove the footings within the Office Building footprint.
- 17. Remove all associated debris from demolition of Office
- 18. Recycle all recyclable structural elements in accordance with all applicable laws and codes.
- 19. Dispose of all demolition products in a lawful manner.



Stage 2 Demolition Sequence:

1. Prior to the start of demolition, remove all hazardous materials identified in the assessment, if any, from the Stage 2 demolition area including but not limited to assestos, fluorescent light tubes, fluorescent light fixtures. Dispose of all hazardous materials in accordance with all applicable codes and laws.

- 2. Provide water line to supply water for dust control during demolition. Control dust at all times.
- 3. Protect multi-media cap, HMS vault and HMS conduit at all times.
- 4. Saw cut slab and footing where shown.
- 5. Remove and store grating for future use.
- 6. Remove slab footing and sump pit by jackhammer.
- 7. Remove sidewalk by jackhammer.
- 8. Construct slope protection as shown.

NOTES:

1. For General and Technical notes, see drawings DDP-F1.01, DDP-F1.02 and DDP-F1.03.

GEND:

DENOTES AREA TO DEMOLISHED

DEMOLITION OF HONEYWELL OFFICES PLAN

date: 06/14/13
drawn by: C.J.W.
checked by: D.W.C.
scale: 1/8"=1".0"
project number: MRCE-11896A

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HARBOR POINT

PHASE 1 AREA 1

DDP SUBMISSION

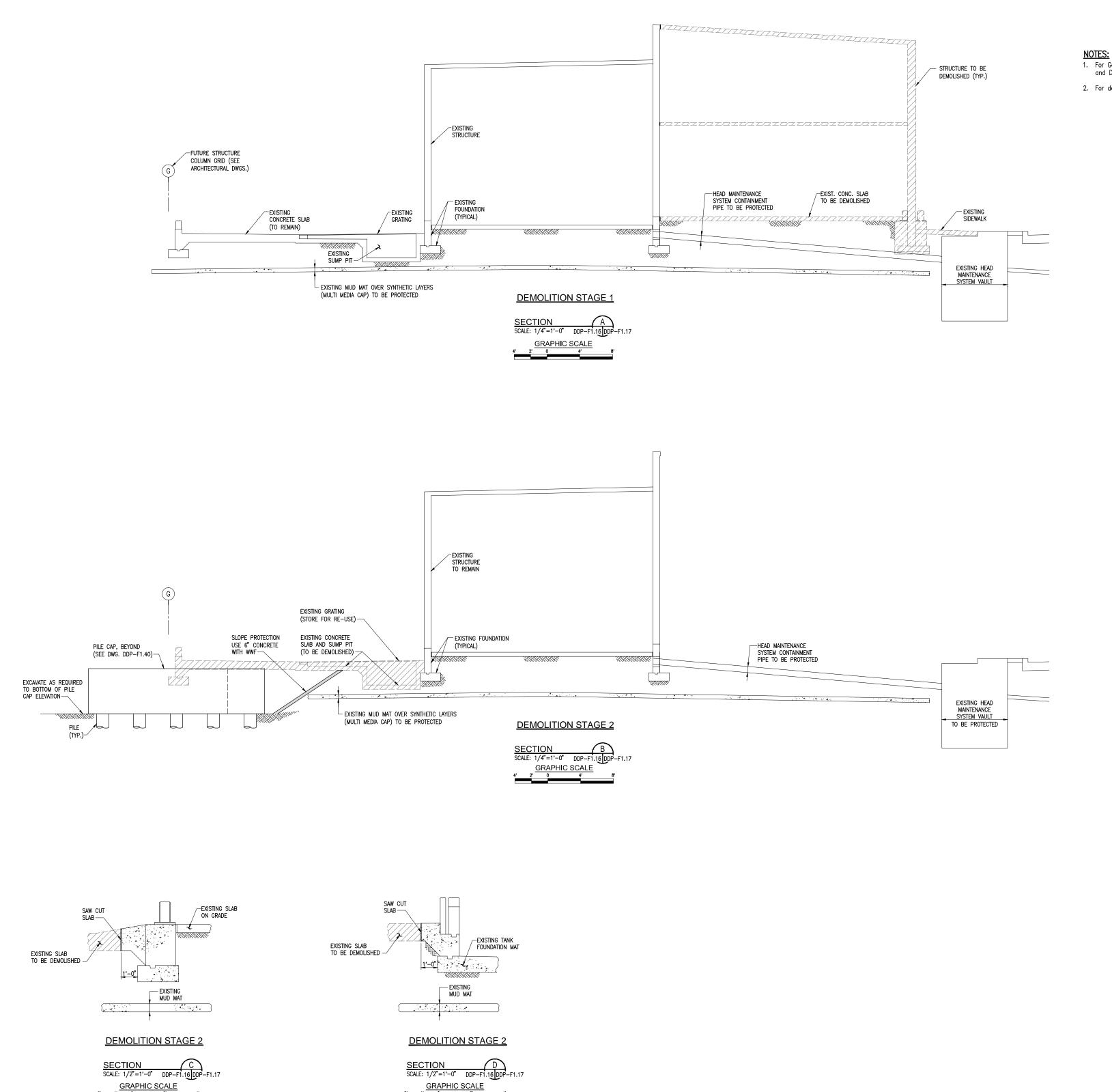
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- NOTES:

  1. For General and Technical notes, see Drawings DDP-F1.01, DDP-F1.02 and DDP-F1.03.
- 2. For demolition sequence and legend, see Drawing DDP-F1.16.

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EXELON BLDG & PLAZA GARAGE

HARBOR POINT
PHASE 1 AREA 1
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DEMOLITION OF HONEYWELL

OFFICES SECTIONS

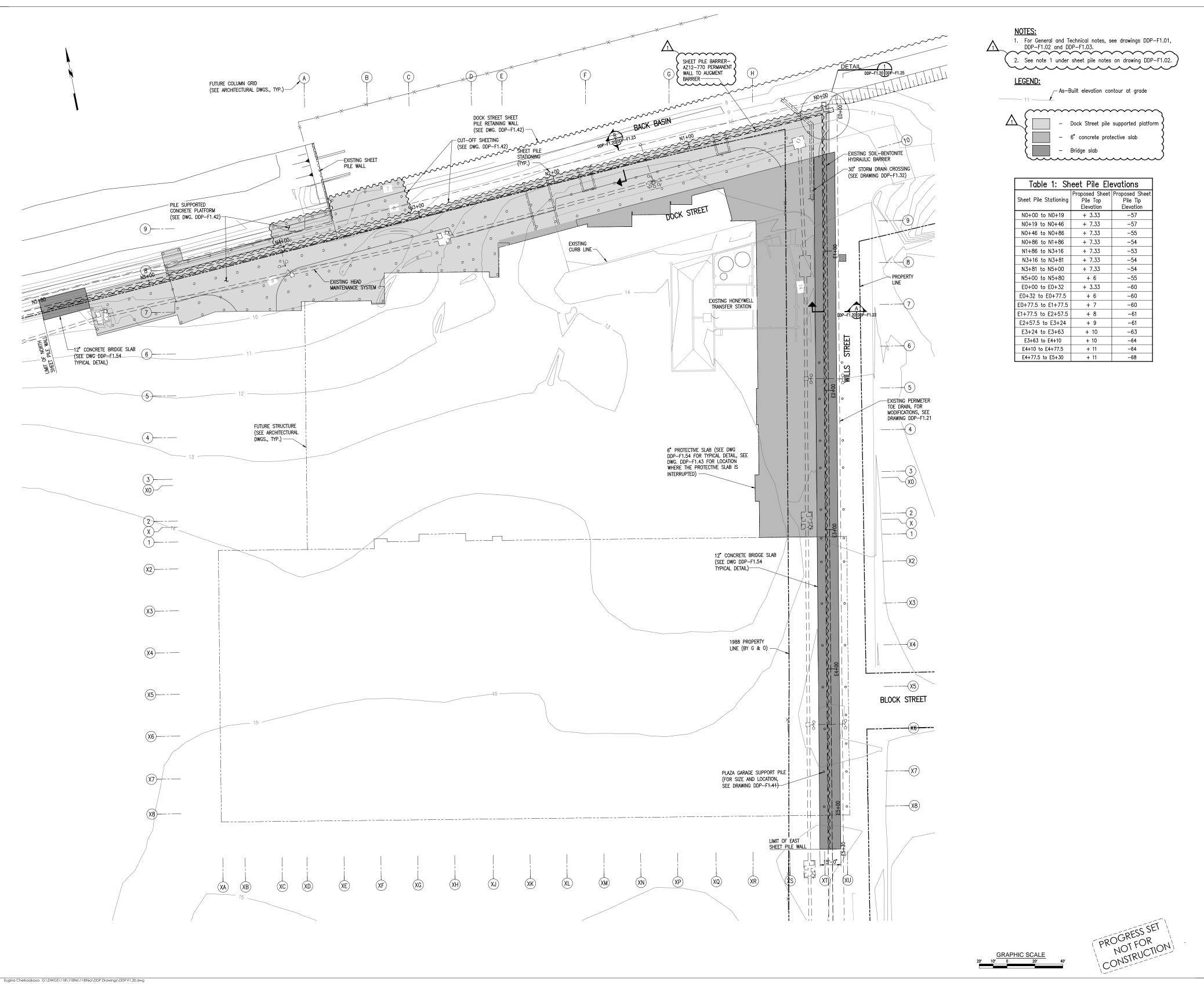
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 C.J.W.

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 D.W.C.

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 project number:
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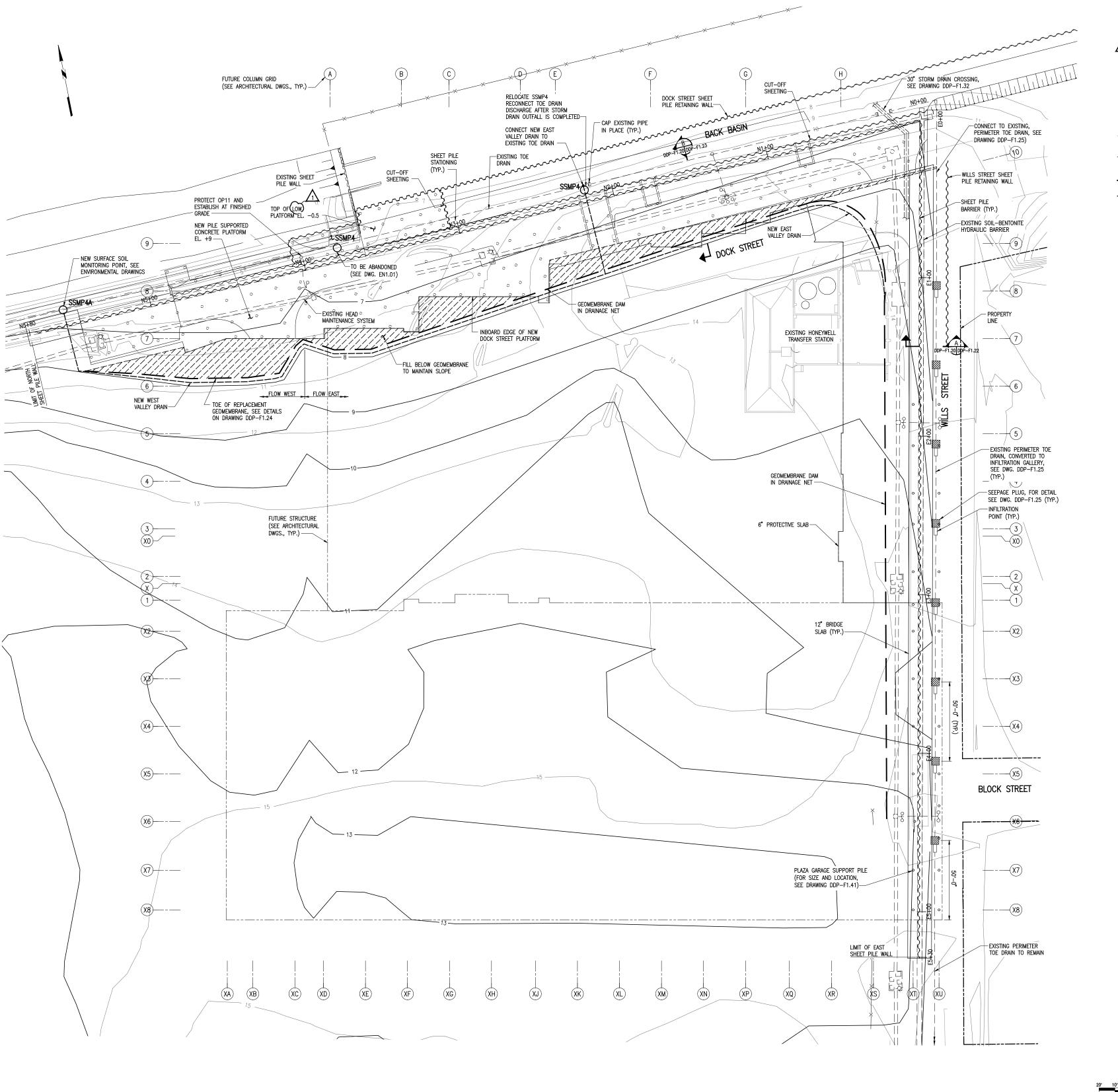
**EXELON BLDG &** PLAZA GARAGE

HARBOR POINT PHASE 1 AREA 1 DDP SUBMISSION 8/1/13 REVISED 11/12/13

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SHEET PILE BARRIER WALL PLAN



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NOTE

1. For General and Technical notes, see drawings DDP-F1.01, DDP-F1.02 and DDP-F1.03.

2. See note 1 under Sheet Pile Notes on drawing DDP-F1.02.

3. Verify synthetic layer elevation +8 contour in the field.

4. MMC QC/QA. Inspect MMC construction. Perform QC testing. Perform QA inspection and testing, Approve MMC for burial.

#### LEGEND:

Existing contour at grade

8 Existing synthetic layer contours

Geomembrane dam in drainage net

New valley drain

#### Construction Sequence at Dock Street

Locate and mark HMS conduit alignment. Use magnetic survey tool.

Surface soil monitoring point

- 2. Locate and mark centerline of hydraulic barrier.
- 3. Locate and mark planned alignment of Valley Drain.
- Drive Retaining Wall Sheeting along North Property Line. Leave sheets above final cutoff.
- Shape cover soil /construct diversion berms to promote storm water runoff.
- 6. Valley Drain.
- A. Excavate upslope to encounter geomembrane and install geomembrane dam and Valley Drain (Note 1).
   Secure excavation. Cover for traffic needs.
   B. Proceed from discharge to high point. Install SSP4A at
- embankment discharge location. C. Place geomembrane dam along Wills St.
- D. Locate and mark actual alignment of Valley Drain.
  E. Connect east Valley Drain discharge at Power Corridor to
- existing toe drain in Dock St. F. Abandon Dock St. toe drain east of connection.
- 7. Wills St. Infiltration
  A. Place seepage plugs and infiltration points to convert
- Wills St. toe drain to infiltration gallery.
- 8. Sheet Pile Barrier
  A. Expose hydraulic barrier centerline and install Sheet Pile
- B. Cut off sheet pile barrier to final cut off.C. Provide temporary cover.
- 9. Drive Cut Off Sheeting at north platform edge. Install studs to connect sheeting to concrete platform and provide lateral
- Drive foundation piles supporting Dock St. platform (High Platform) and storm drain discharge (Low Platform) from existing grade. Monitor HMS during pile driving within 15 ft of conduits or vaults.
- 11. Excavate cover soil to dock St. platform (High Platform) subgrade (at EL+7). Excavate below geomembrane where needed for utility clearance. Where excavations are below geomembrane grade, over—excavate 6 in and provide cover geotextile and 6" clean cover soil over exposed subgrade areas, or perform temporary restoration of geomembrane.
- 12. Install dowels to engage HMS structures V11, V12, MJ1 with structural concrete platform.
- Excavate at HMS conduit alignment and install hangers (See Drawing EN1.09). Place cover soil to restore platform subgrade or perform temporary restoration of geomembrane.
- 14. Cut off Piles to final cut off and place concrete fill.
- Place Dock St. platform (High Platform) reinforcing steel and concrete. Create depressions for planter boxes, manholes, etc.
- 16. Form and place concrete retaining walls supported on Dock St.
- 17. Cover platform with MMC synthetic layers. Seal geomembrane to Valley Drain dam and HMS vaults (Note 1).
- 18. Place Protective Concrete cover over platform and all areas outside of the building wall.
- Place structural fill over platform to restore HS-20 truck loading and to allow vehicles to cross over the retaining structure onto Point St. footprint at west end of Dock St. (Temporary
- 20. Low Platform

Construction Roadway).

- A. Excavate to Low Platform Subgrade EL—2.5. Install Bracing
- as Required. B. Dewater to obtain water level at Elev. -4.5 or below.
- (See EN Drawings for Water Management.)
  C. Cut off foundation piles to final elevation and place concrete
- D. Place platform reinforcing steel and concrete. Allow 14 days cure before placing backfill.
- E. Place backfill on platform to Elev. +3 (prevent buoyancy) before terminating dewatering below platform.
- 21. Construct foundations for Exelon Tower and TF Garage.
  Construct HMS Truck Loading Dock Containment Pad.
- 22. Place structural fill to obtain Dock St. grades (or utility
- subgrades as applicable).

  23. Excavate and place utilities under the Temporary Construction
- 24. Place finish grade, street, concrete, landscaping etc.

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EXELON BLDG & PLAZA GARAGE

HARBOR POINT PHASE 1 AREA 1 DDP SUBMISSION 8/1/13

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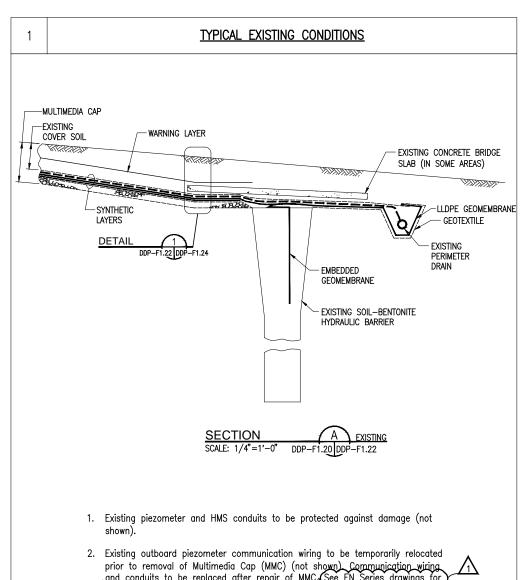
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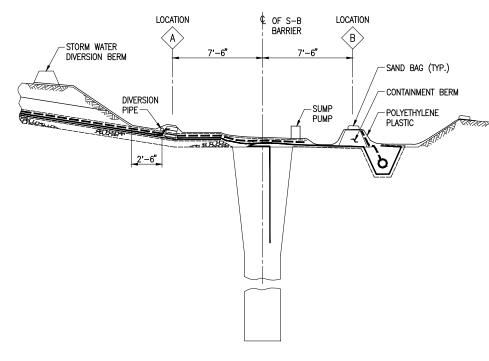
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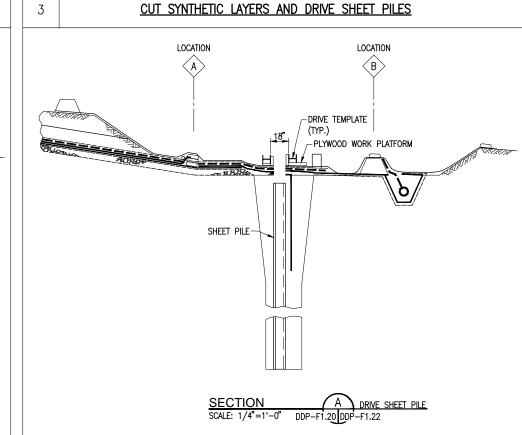
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checked by: D.J.G.
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project number: MRCE-11896A

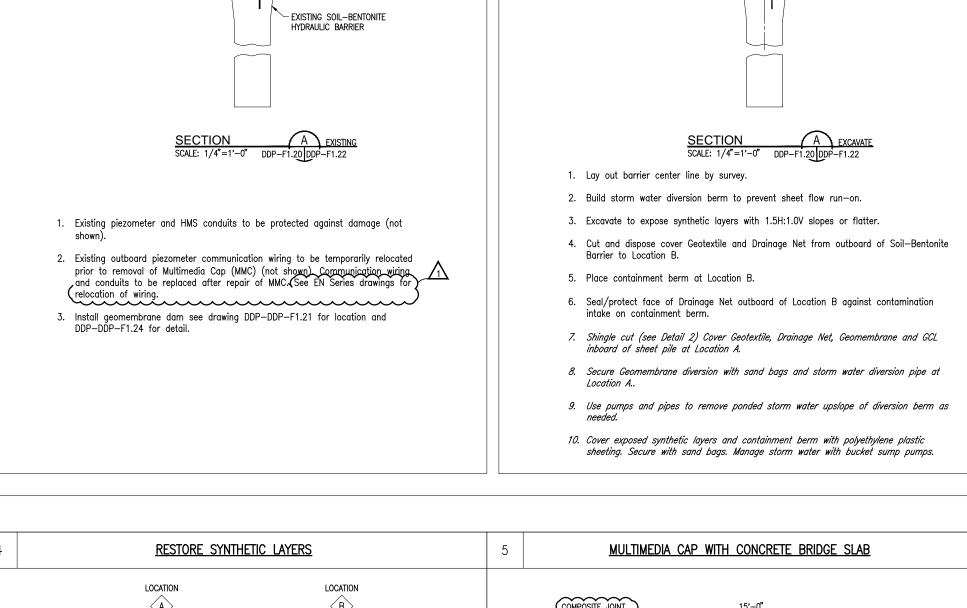


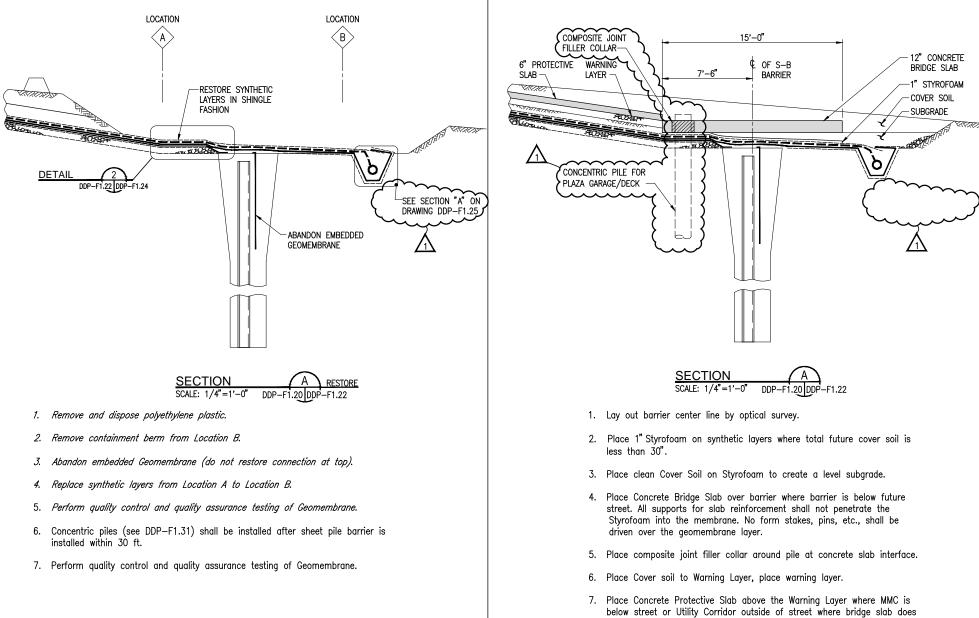
2 <u>EXCAVATE TO EXPOSE SYNTHETIC LAYERS</u>





- 1. Lay out barrier center line.
- Use plywood or other materials to provide stable work platform and protect polyethylene plastic.
- Cut and remove 18" wide strip of all polyethylene plastic and MMC synthetic layers at center line of Soil-Bentonite Barrier.
- 4. Place and secure drive template.
- 5. Place interlocking sheet pile with sealed interlocks.
- 6. Cover work area with polyethylene plastic at end of each work day.
- If sheet pile is pulled, remove barrier backfill from sheet pile (scrape and power wash into excavation) so that no more than 10 feet of unwashed sheet is exposed above work surface.
- 8. Drive sheet to obtain penetration refusal at bottom of barrier.





not cover synthetic layer.

8. Place Cover Soil to final grade.

NOTE

- For General and Technical notes, see drawings DDP-F1.01, DDP-F1.02 and DDP-F1.03.
- 2. Steps in Italic require Level D-Modified PPE.

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EXELON BLDG & PLAZA GARAGE

HARBOR POINT PHASE 1 AREA 1 DDP SUBMISSION 8/1/13 REVISED 11/12/13

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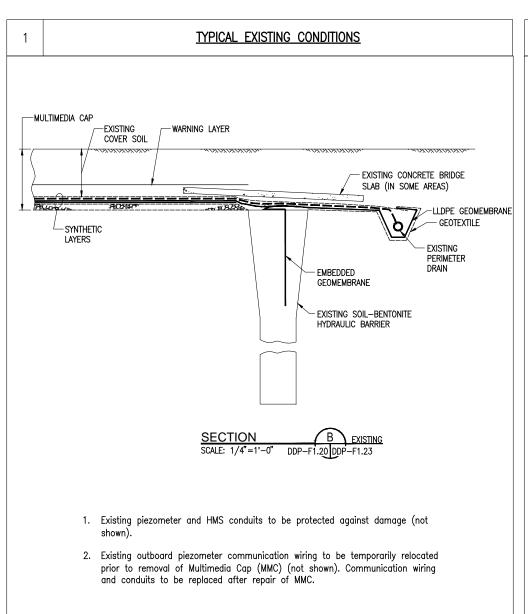
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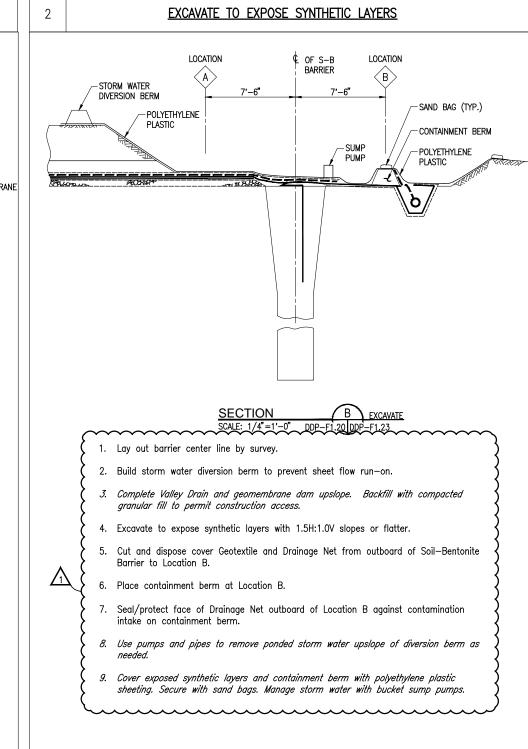
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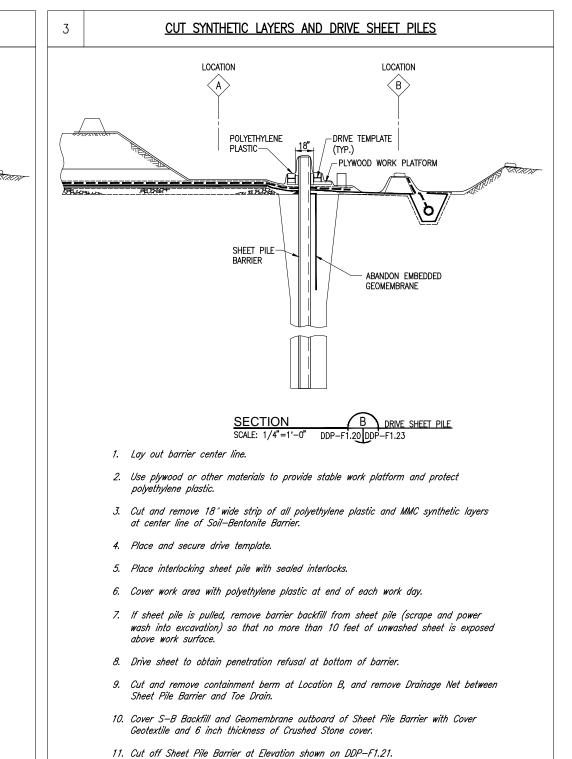
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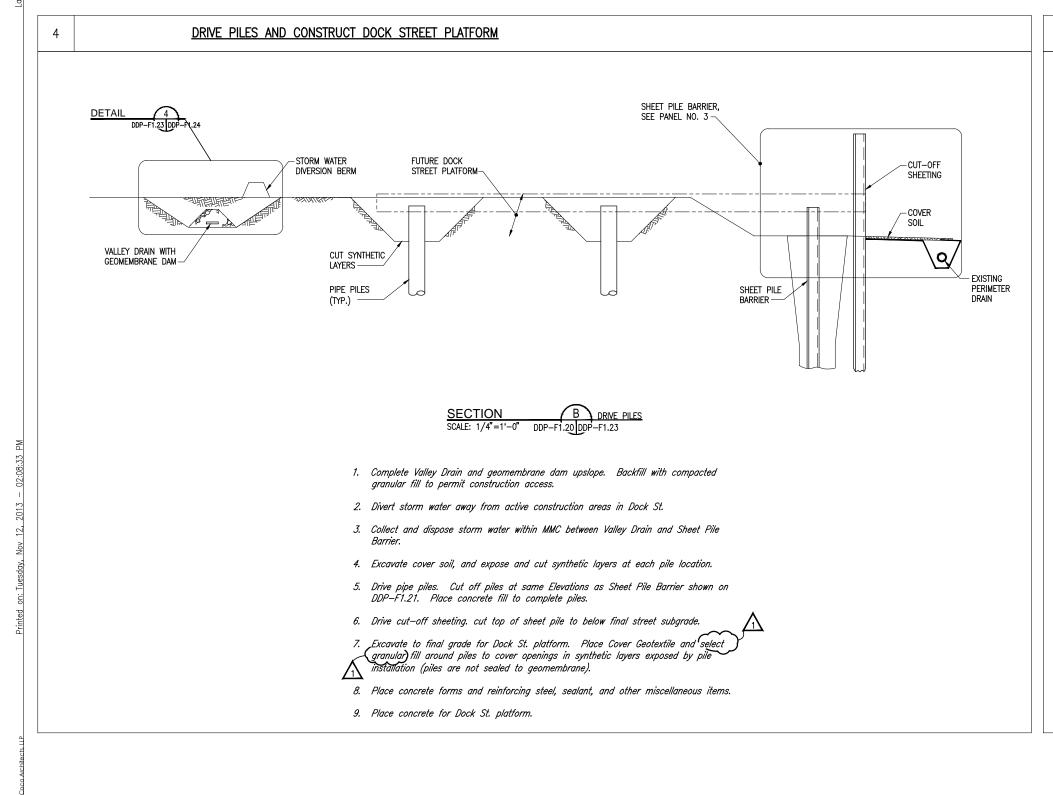
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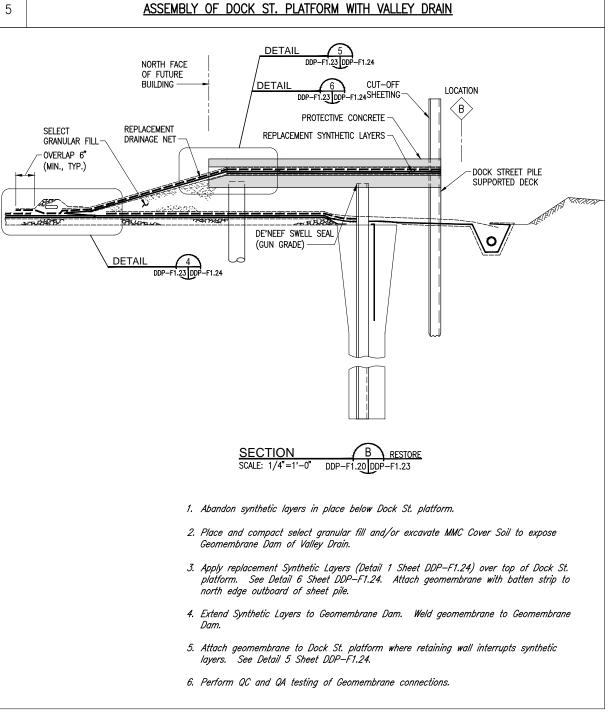


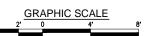
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### <u>NOTE</u>

- For General and Technical notes, see drawings DDP-F1.01, DDP-F1.02 and DDP-F1.03.
- 2. Steps in Italic require Level D-Modified PPE.



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EXELON BLDG & PLAZA GARAGE

HARBOR POINT PHASE 1 AREA 1 DDP SUBMISSION 8/1/13 REVISED 11/12/13

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SHEET PILE WALL CONSTRUCTION

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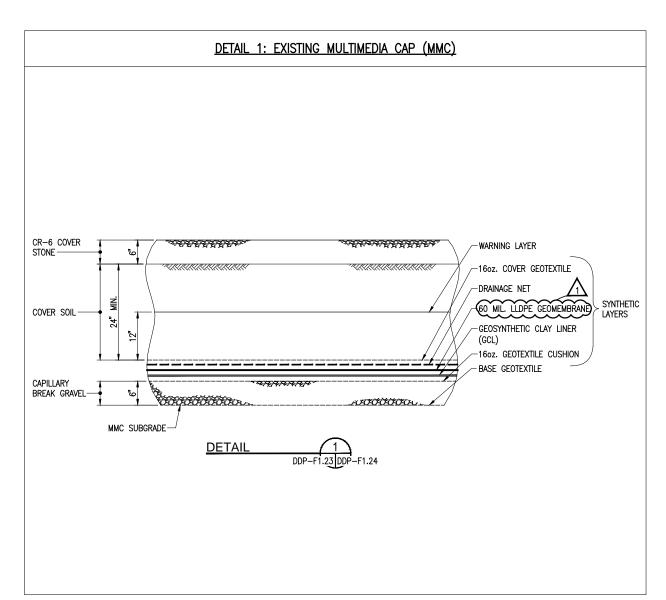
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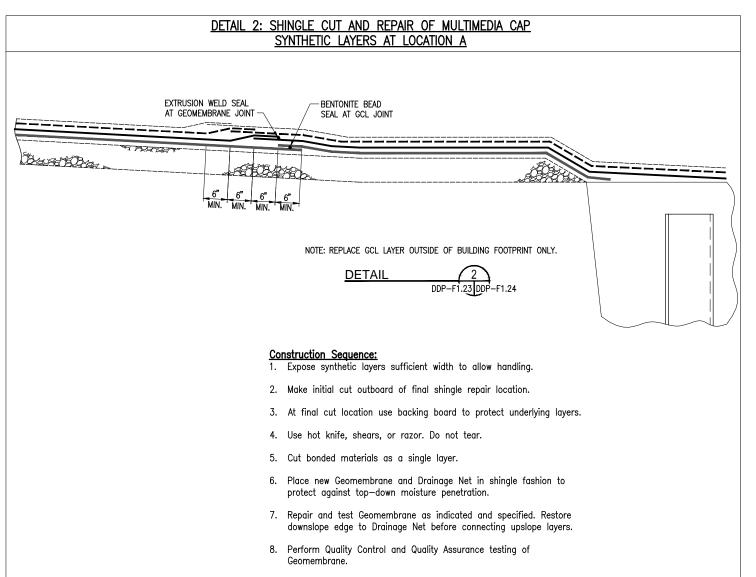
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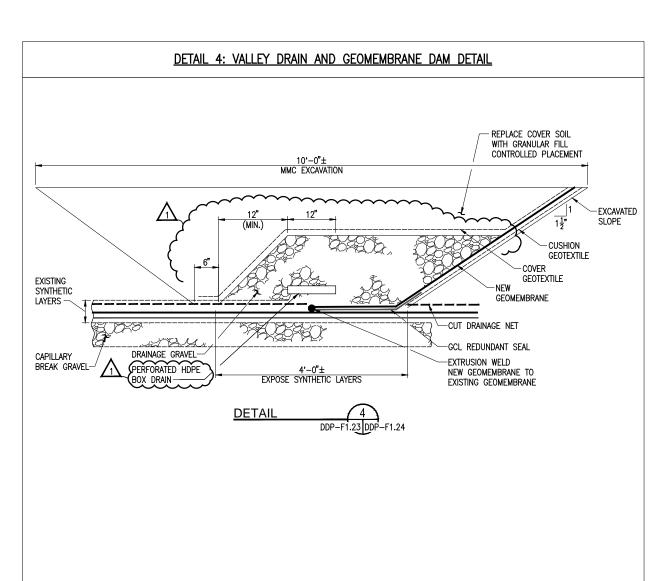
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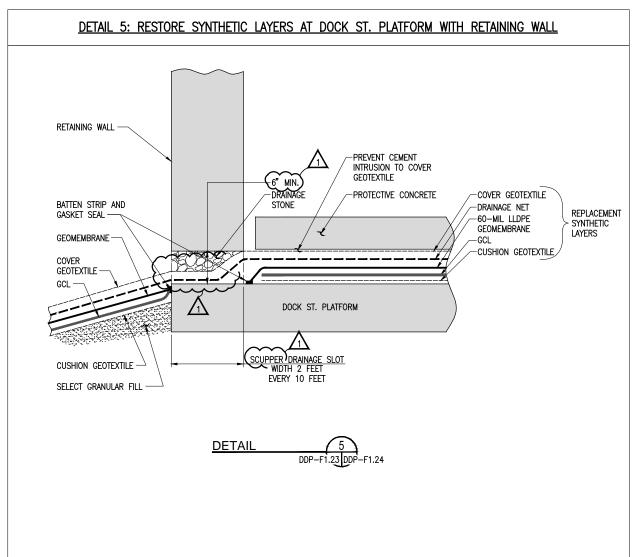
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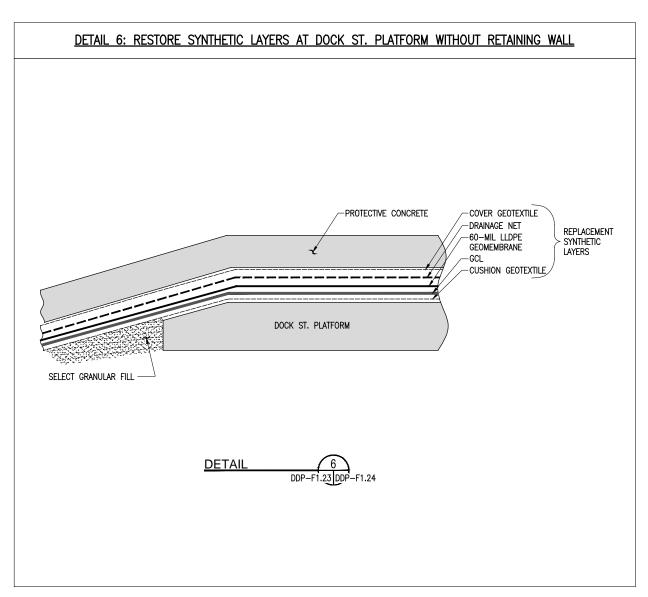






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HARBOR POINT PHASE 1 AREA 1 DDP SUBMISSION 8/1/13 REVISED 11/12/13

key plan

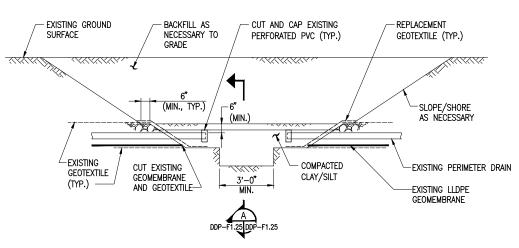
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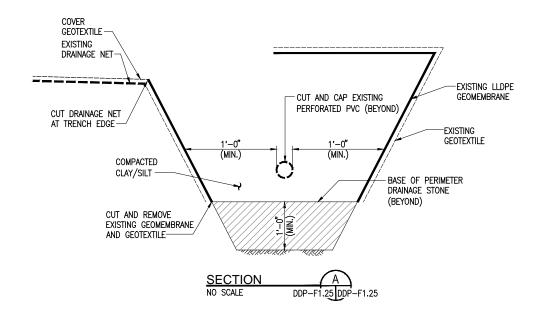
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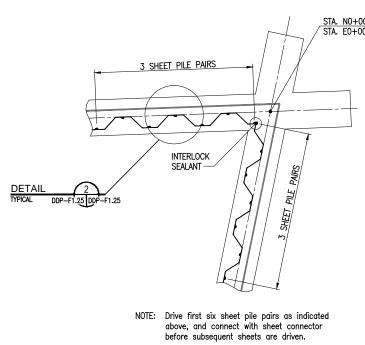
SHEET PILE
WALL TYPICAL
DETAILS

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drawn by: K.J.
checked by: D.J.G.
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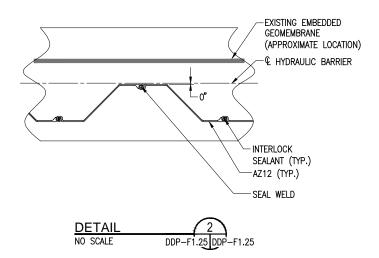
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- 1. For General and Technical notes, see drawings DDP-F1.01, DDP-F1.02 and DDP-F1.03.
- 2. Steps in Italic require Level D-Modified PPE.



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### EXELON BLDG & PLAZA GARAGE

HARBOR POINT PHASE 1 AREA 1 DDP SUBMISSION 8/1/13 REVISED 11/12/13

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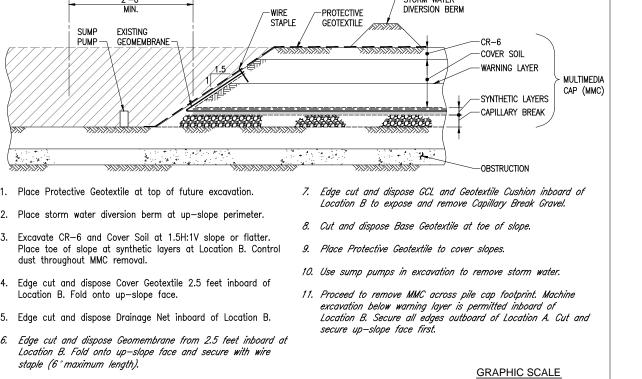
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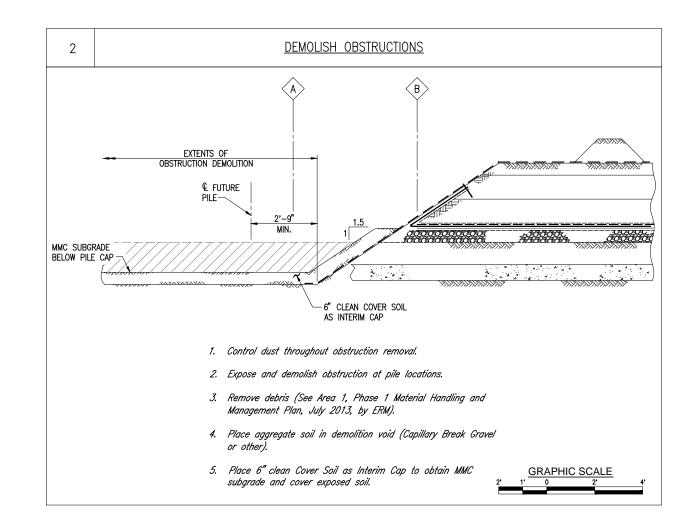
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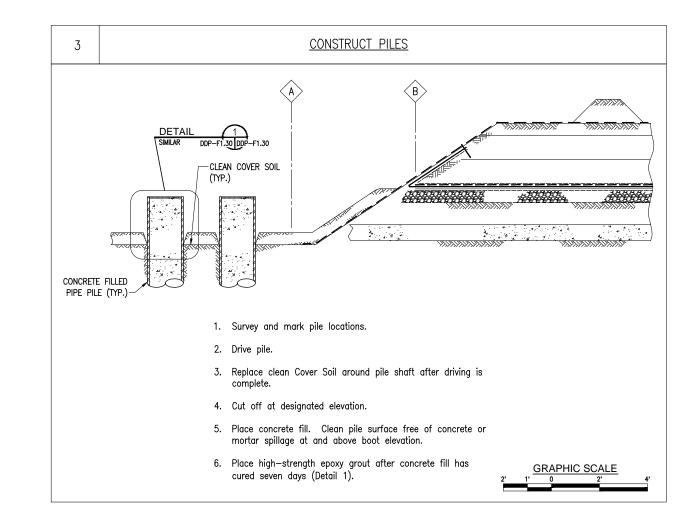
Location B. Fold onto up-slope face.

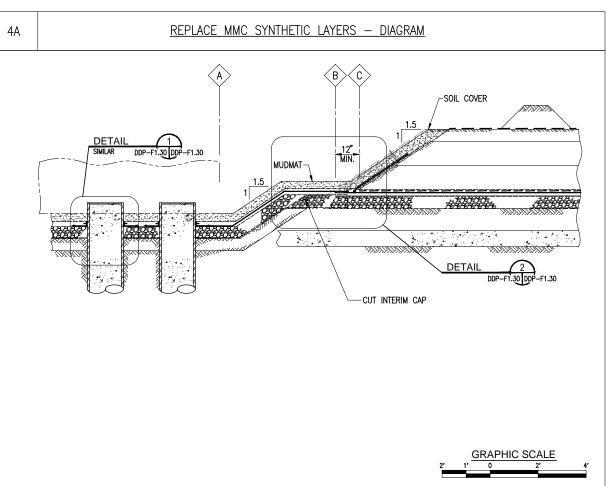
Eugina Cherkasskaya G:\DWG\$\118\11896\11896a\DDP Drawings\DDP-F1.30.dwg

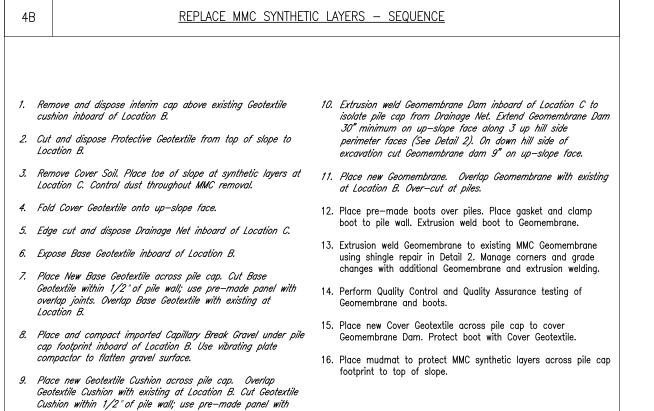
staple (6" maximum length).



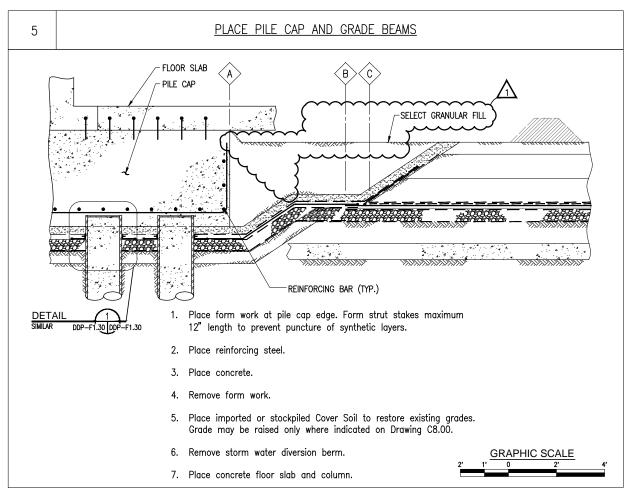








overlap joints.

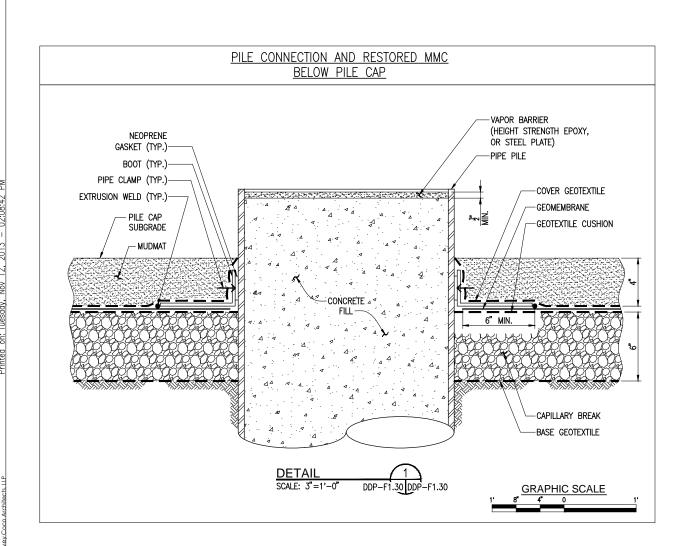


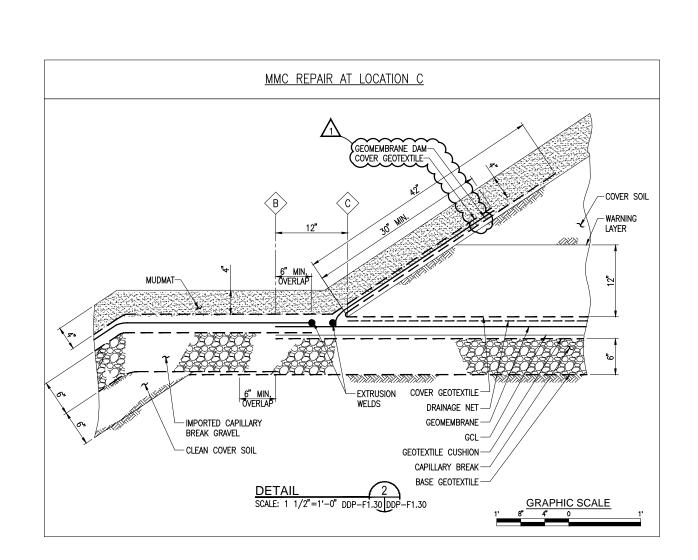
1. For General and Technical notes, see drawings DDP-F1.01,

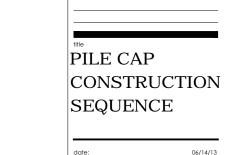
DDP-F1.02 and DDP-F1.03.

2. Steps in Italics require Level D-Modified PPE.

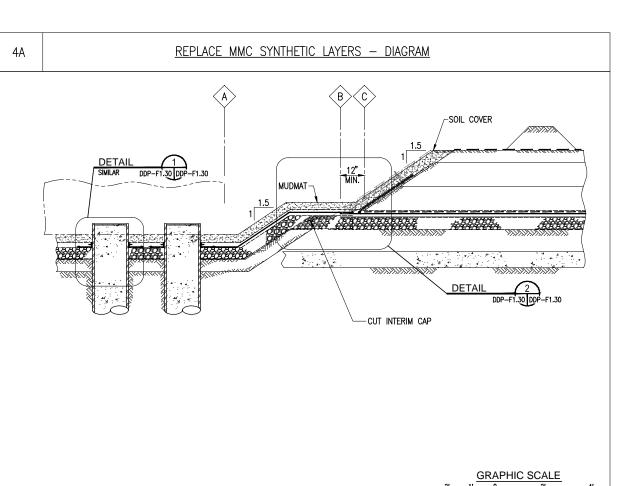
3. For Potential Obstruction, see drawing DDP-F1.13.







DDP-F1.30



PHASE 1 AREA 1 **DDP SUBMISSION** 8/1/13 REVISED 11/12/13

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**EXELON BLDG &** PLAZA GARAGE

HARBOR POINT

1109 Spring Street Silver Spring, MD 20910 P 301-587-1820

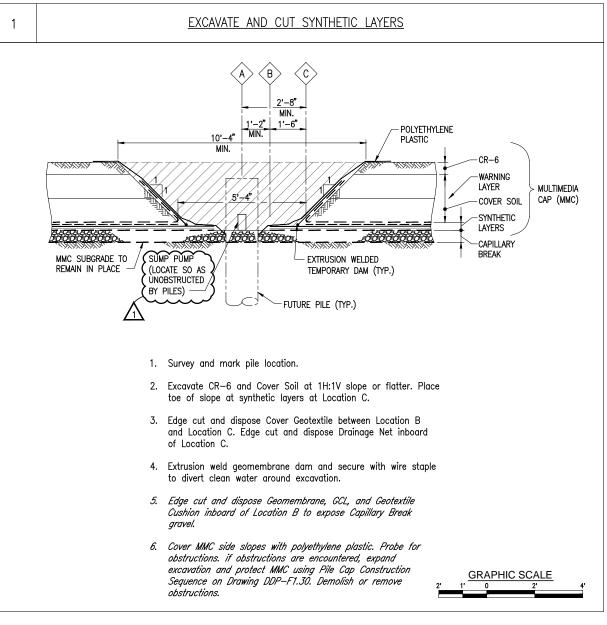
mep & fp engineer: Vanderweil

Rummel, Klepper & Kahl

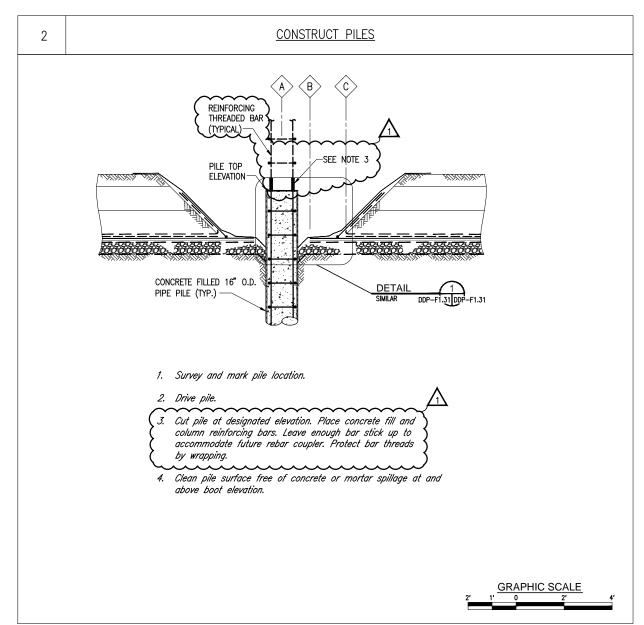
Mahan Rykiel Associates

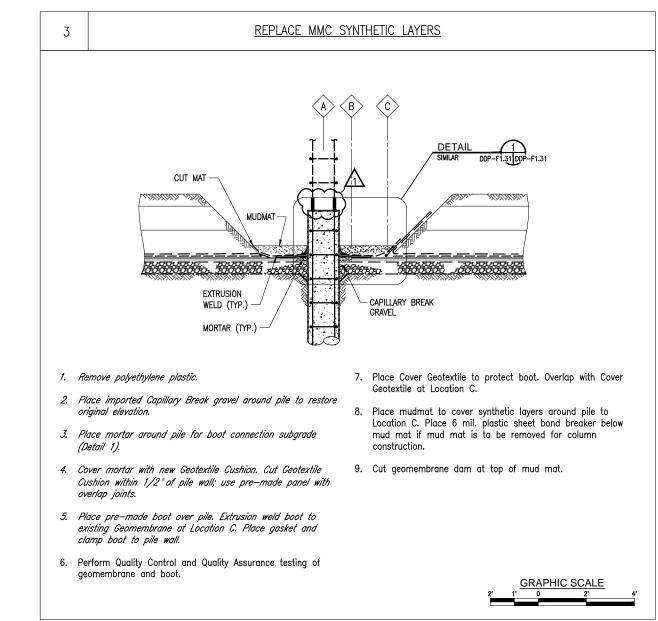
Baltimore, MD 21217-4250 P 410-728-2900

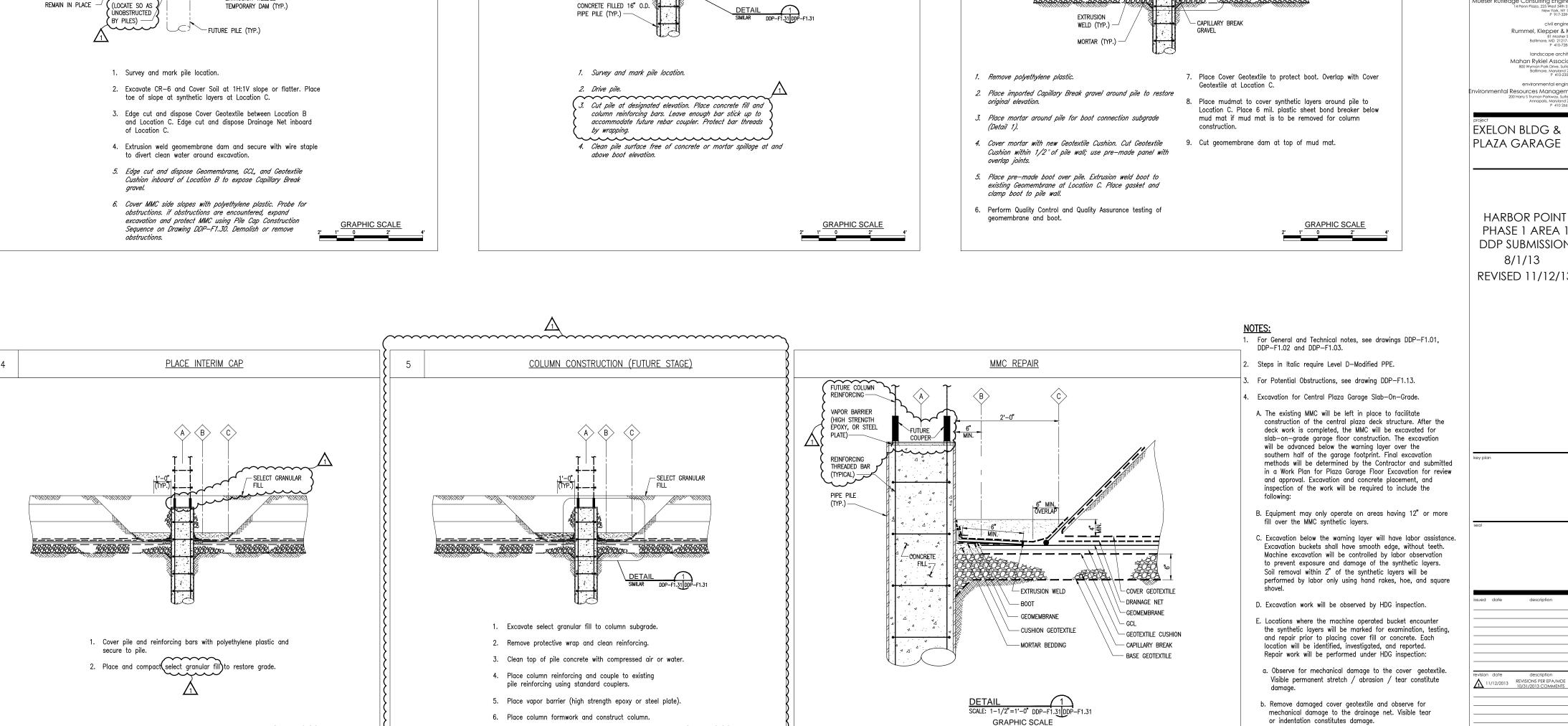
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NOTFOR CONSTRUCTION

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> **EXELON BLDG &** PLAZA GARAGE

HARBOR POINT PHASE 1 AREA 1 DDP SUBMISSION 8/1/13 REVISED 11/12/13

c. Remove damaged drainage net and perform visual examination and vacuum box test of underlying geomembrane. Repair geomembrane as directed by the HDG inspector.

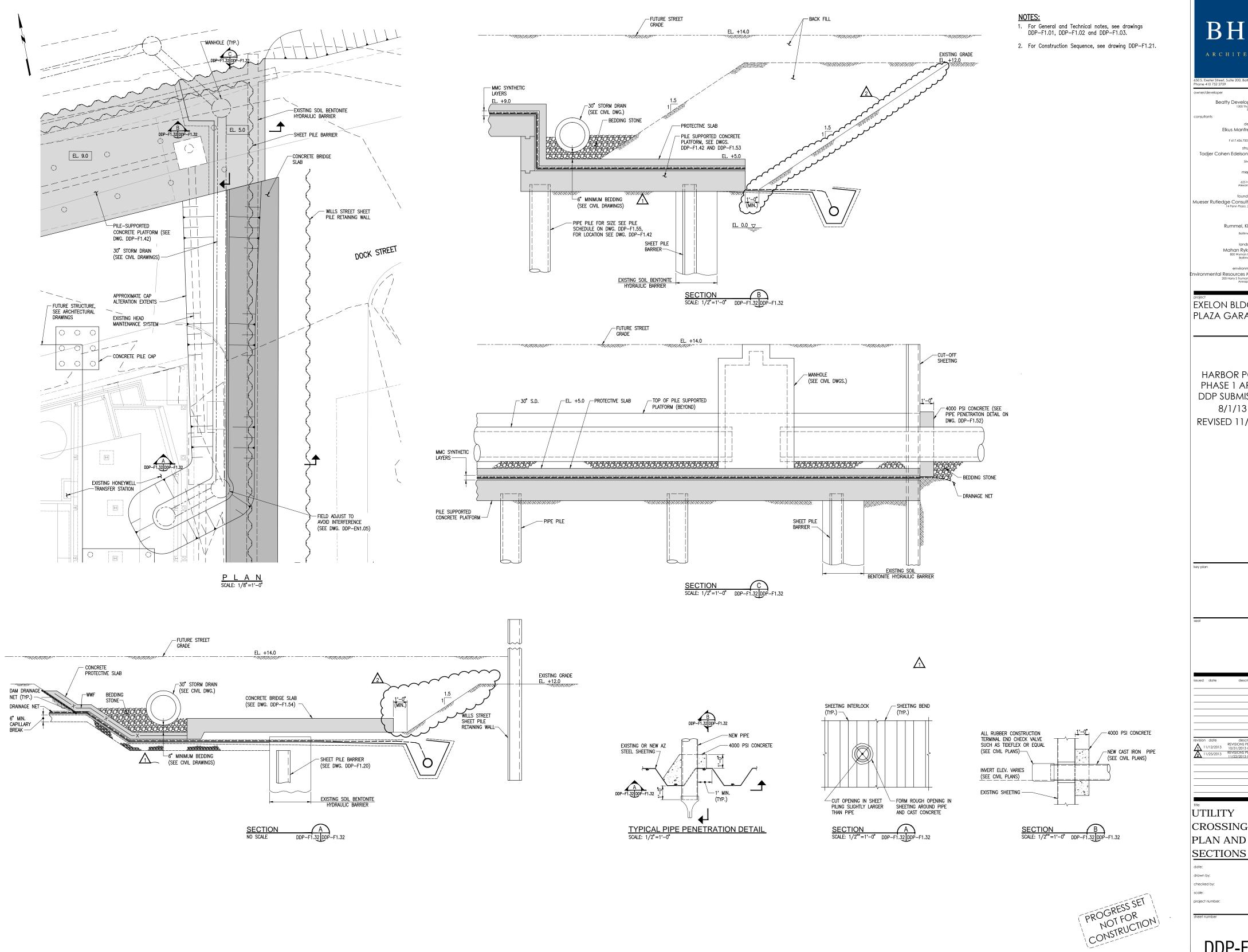
5. "Concentric Piles" are referred to as "Plaza Garage support piles" on Foundation Plan drawings.

PILE CONSTRUCTION SEQUENCE 06/14/13 drawn by: checked by D.J.G. AS SHOWN

CONCENTRIC

DDP-F1.31

MRCE-11896A



Christopher Wright G:\DWG\$\118\11896\11896a\DDP Drawings\DDP-F1.32.dwg

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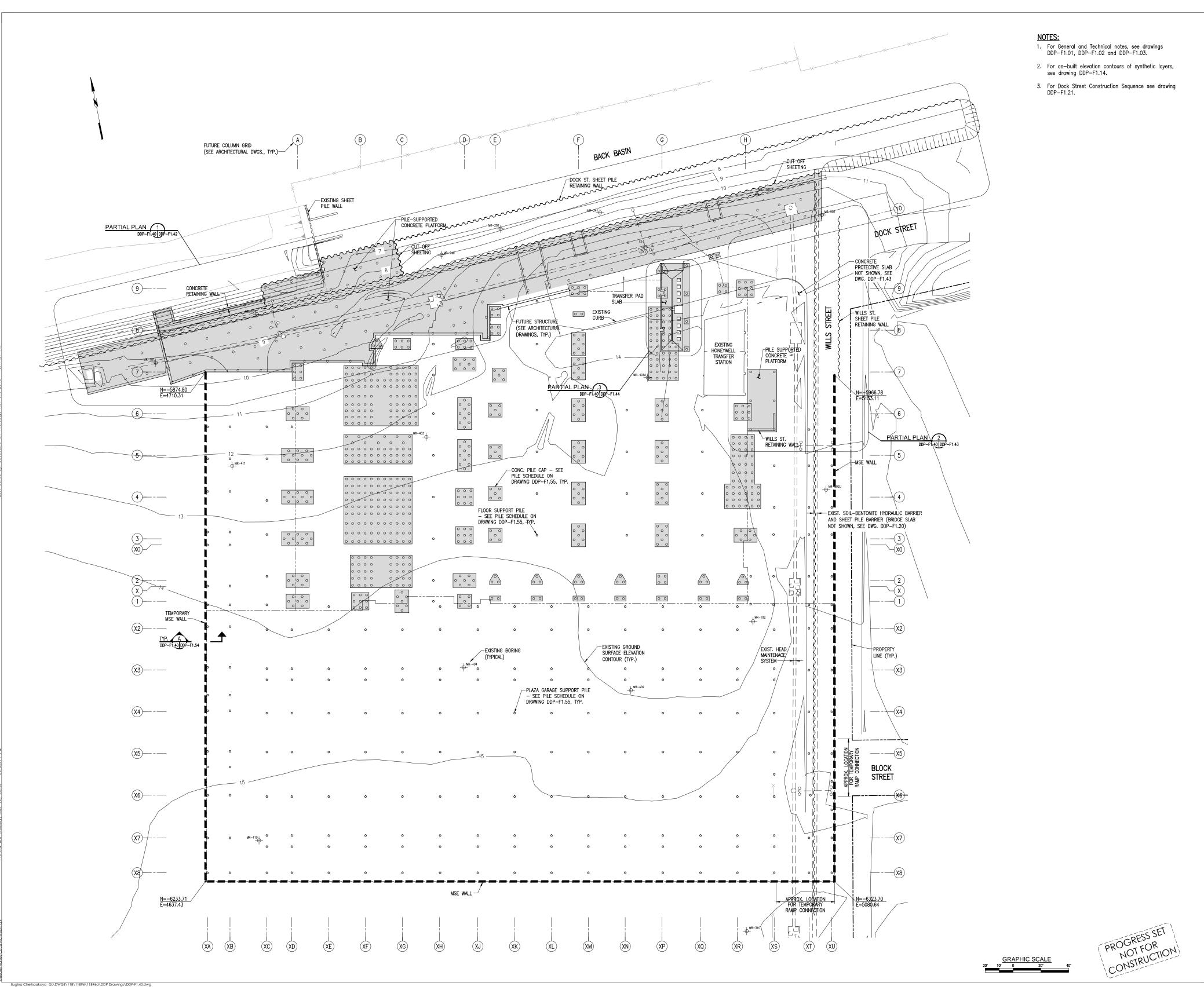
Mahan Rykiel Associates 800 Wyman Park Drive, Suite 310 Baltimore, Maryland 21211

**EXELON BLDG &** PLAZA GARAGE

HARBOR POINT PHASE 1 AREA 1 DDP SUBMISSION 8/1/13 REVISED 11/12/13

UTILITY CROSSING PLAN AND

07/01/13 drawn by: checked by:



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EXELON BLDG & PLAZA GARAGE

HARBOR POINT PHASE 1 AREA 1 DDP SUBMISSION 8/1/13 REVISED 11/12/13

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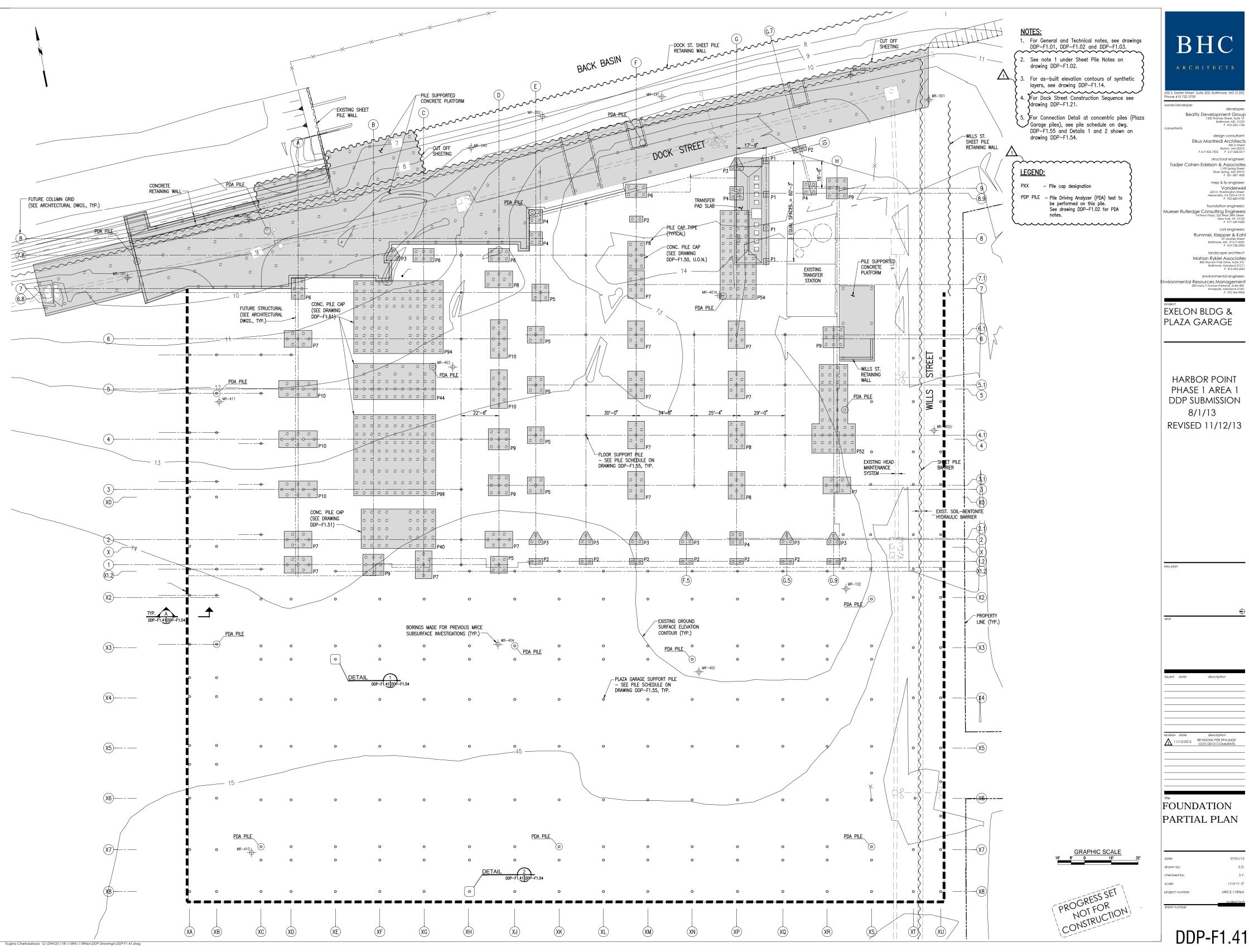
date description

revision date description

11/12/2013 REVISIONS PER EPA/MDE 10/31/2013 COMMENTS

FOUNDATION PLAN

date: 06/14/13
drawn by: E.D.
checked by: S.Y.
scale: 1:20
project number: MRCE-11896A



mep & fp engineer: Vanderweil 625 N. Washington Street Alexandria, VA 22314-1913 P 703-683-9700

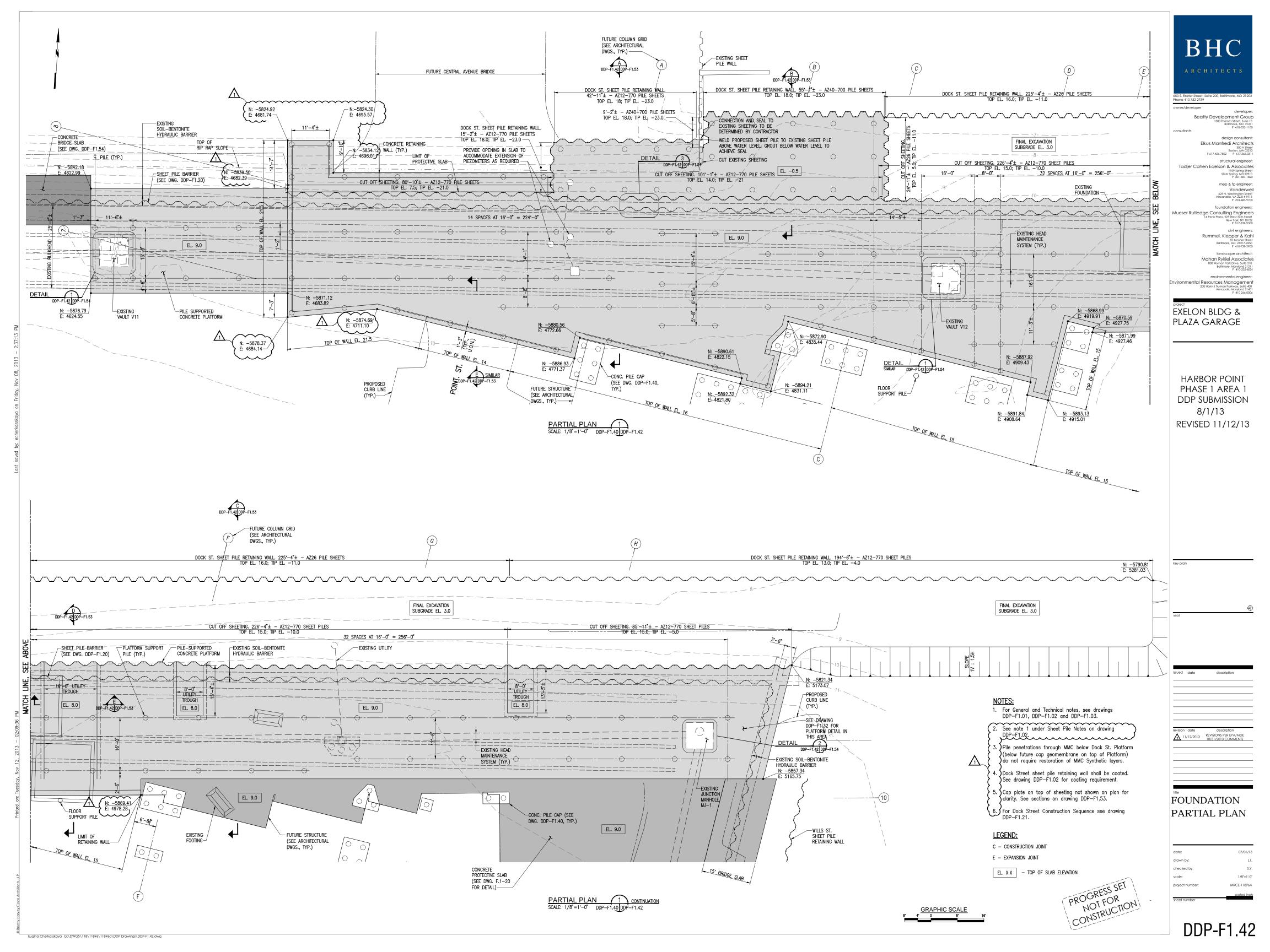
Rummel, Klepper & Kahl

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EXELON BLDG &

HARBOR POINT PHASE 1 AREA 1 DDP SUBMISSION

PARTIAL PLAN



### NOTES:

- 1. For General and Technical notes, see drawings DDP-F1.01, DDP-F1.02, and DDP-F1.03.
- Bent plate to be placed after backfilling to final grade. Coating for bent plate to match sheet pile coating.

FENCE BY OTHERS

— 1" BENT PLATE TO BE COATED

(SEE NOTE 2)

\_\_EXIST. GRADE

WALKERS SAINER

— Sheet Pile Retaining Wall

(ELEVATIONS SEE PLAN)



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EXELON BLDG & PLAZA GARAGE

HARBOR POINT PHASE 1 AREA 1 DDP SUBMISSION 8/1/13 REVISED 11/12/13

key plan

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issued date description

revision date description

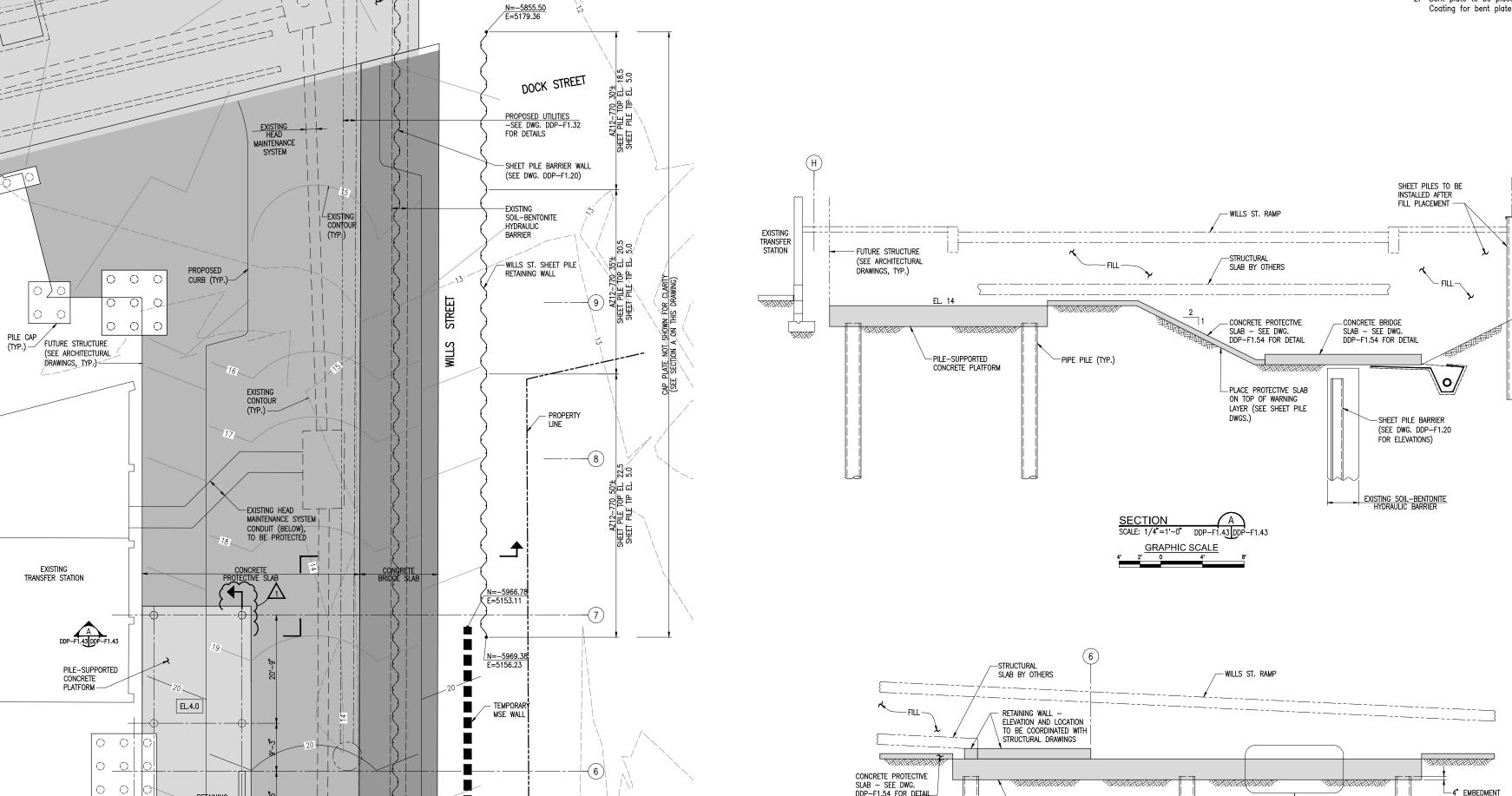
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FOUNDATION
PARTIAL PLAN
AND SECTIONS

date: 07/01/13
drawn by: C.J.W.
checked by: S.Y.
scale: 1/8"=1"-0"
project number: MRCE-11896A

DDP-F1.43

PROGRESS SET NOT FOR NOT FUCTION



- PILE-SUPPORTED CONCRETE PLATFORM

> – Plaza Garage Support

PILE (TYP.

0 0

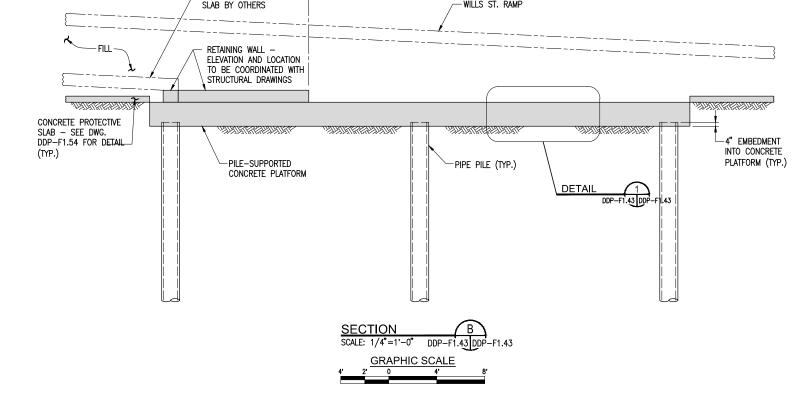
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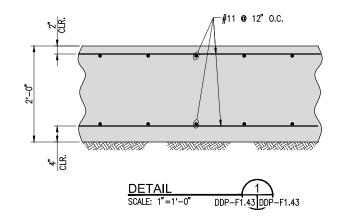
(H)

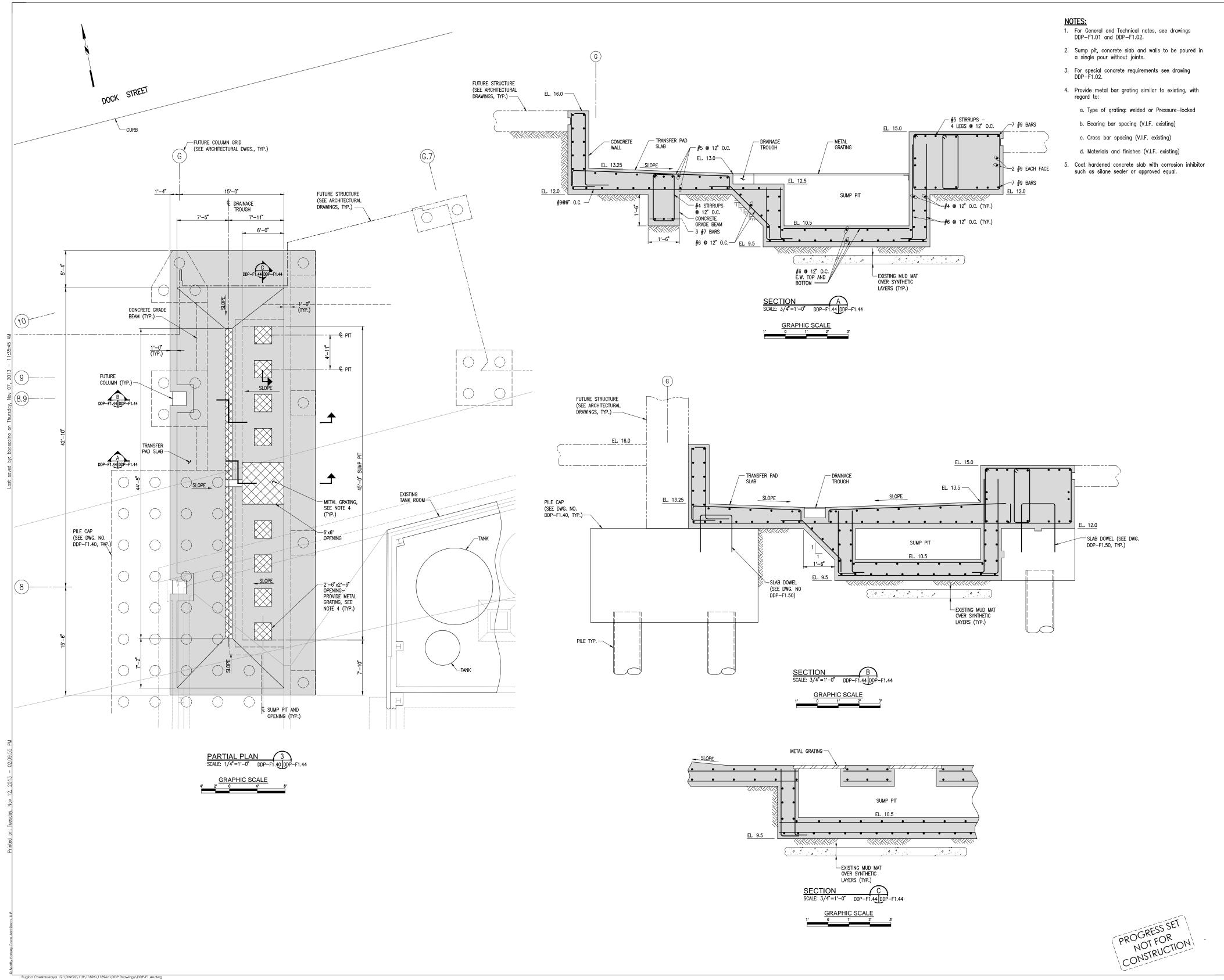
1'-9" (TYP., U.O.N.)

PARTIAL PLAN 2 SCALE: 1/8"=1'-0" DDP-F1.40 DDP-F1.43

€ PILE AND









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EXELON BLDG & PLAZA GARAGE

HARBOR POINT PHASE 1 AREA 1 DDP SUBMISSION 8/1/13 REVISED 11/12/13

y plan

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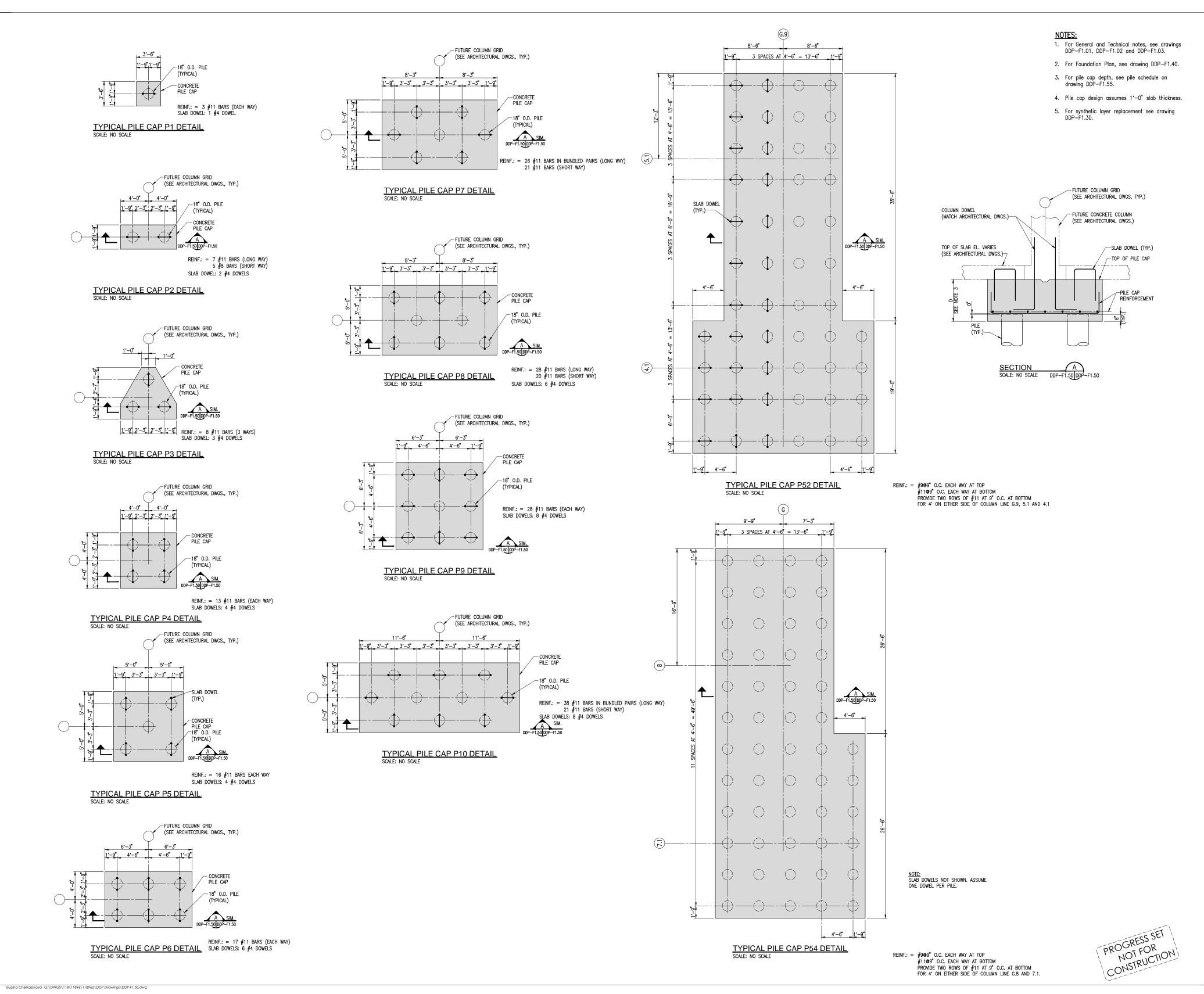
date description

revision date description

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FOUNDATION
PARTIAL PLAN

date: 06/14/13
drawn by: L.L.
checked by: S.Y.
scale: AS SHOWN
project number: MRCE-11896A



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EXELON BLDG & PLAZA GARAGE

HARBOR POINT PHASE 1 AREA 1 DDP SUBMISSION 8/1/13 REVISED 11/12/13

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ed date description

revision date description

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FOUNDATION
DETAILS AND
SECTIONS

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 06/14/13

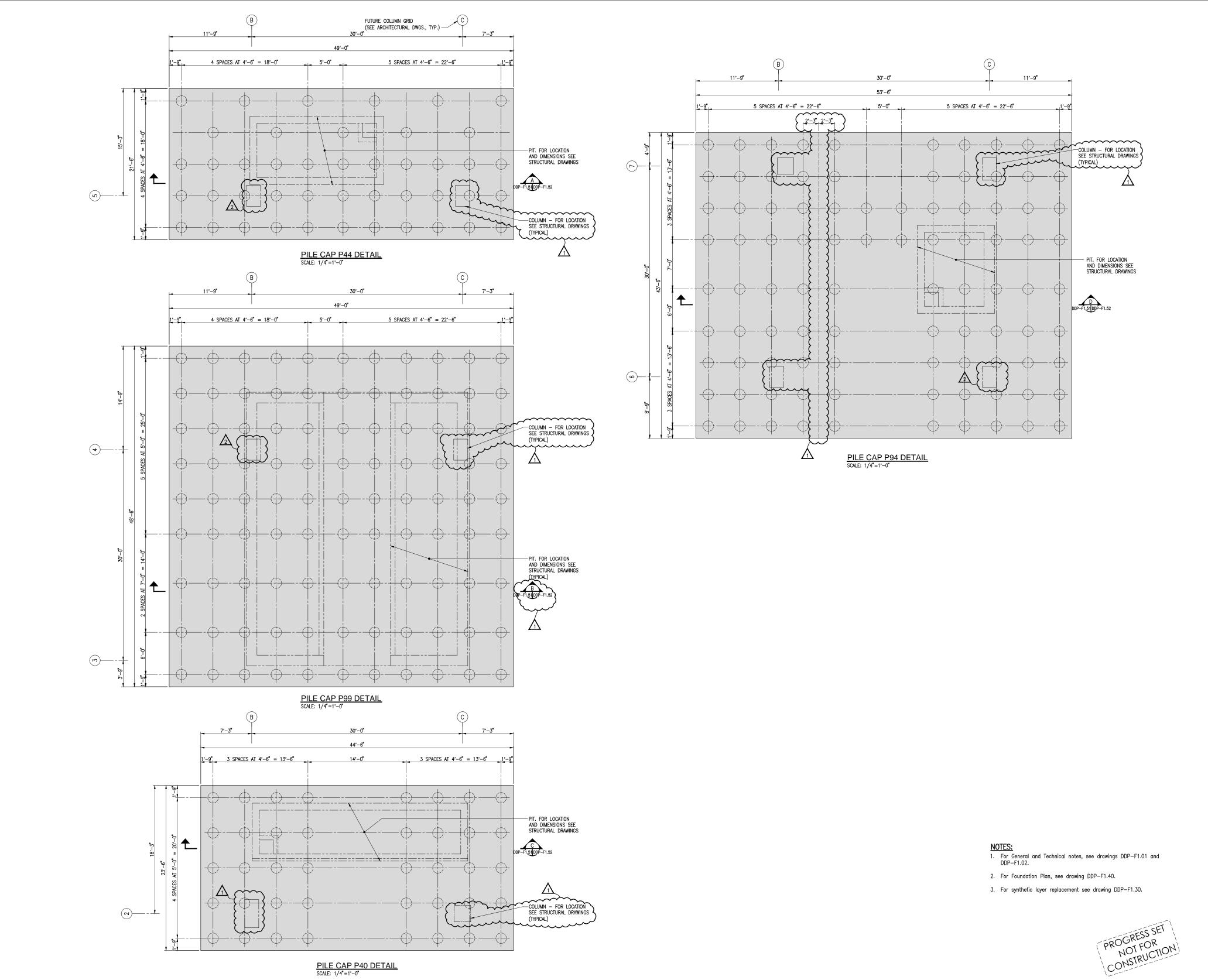
 drawn by:
 K.J.

 checked by:
 S.Y.

 scale:
 NONE

 project number:
 MRCE-11896A

 scaled inch



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ronmental Resources Management 200 Harry S Truman Parkway, Sulle 400 Annapolis, Maryland 21401 P 410 266 0006

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HARBOR POINT
PHASE 1 AREA 1
DDP SUBMISSION
8/1/13
REVISED 11/12/13

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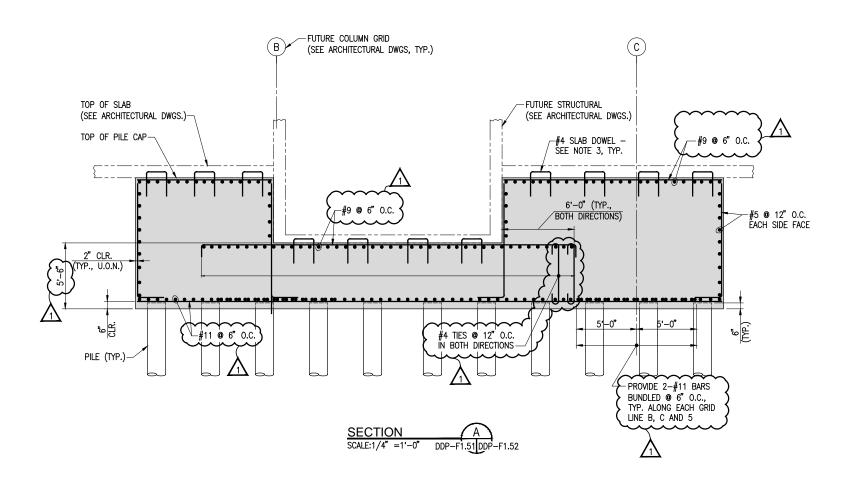
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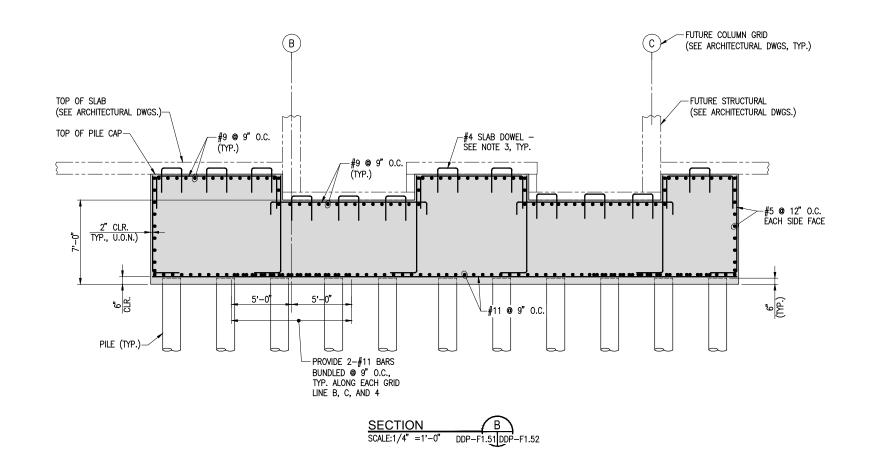
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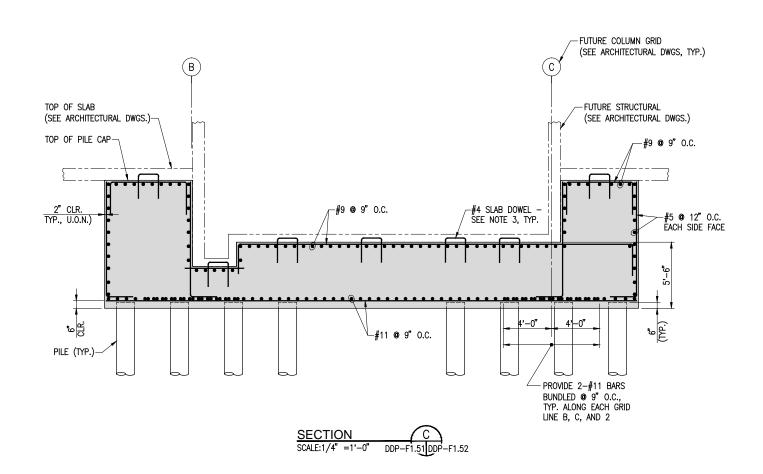
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FOUNDATION DETAILS AND SECTIONS

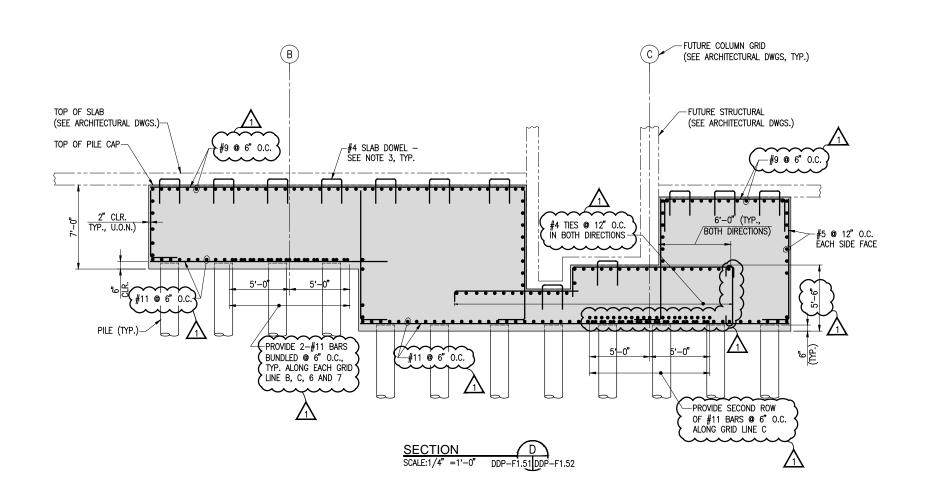
date: 07/01/13
drawn by: K.J.
checked by: S.Y.
scale: AS SHOWN
project number: MRCE-11896A
scaled inch







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### NOTES:

- 1. For General and Technical notes, see drawings DDP-F1.01 and DDP-F1.02.
- 2. For Foundation Plan, see drawing DDP-F1.40.
- 3. Place one slab dowel per pile. Place dowel such that it is centered on pile, as shown in sections.
- 4. For synthetic layer replacement see drawing DDP-F1.30.

PROGRESS SET NOT FOR CONSTRUCTION BHC

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### EXELON BLDG & PLAZA GARAGE

HARBOR POINT PHASE 1 AREA 1 DDP SUBMISSION 8/1/13 REVISED 11/12/13

key plan

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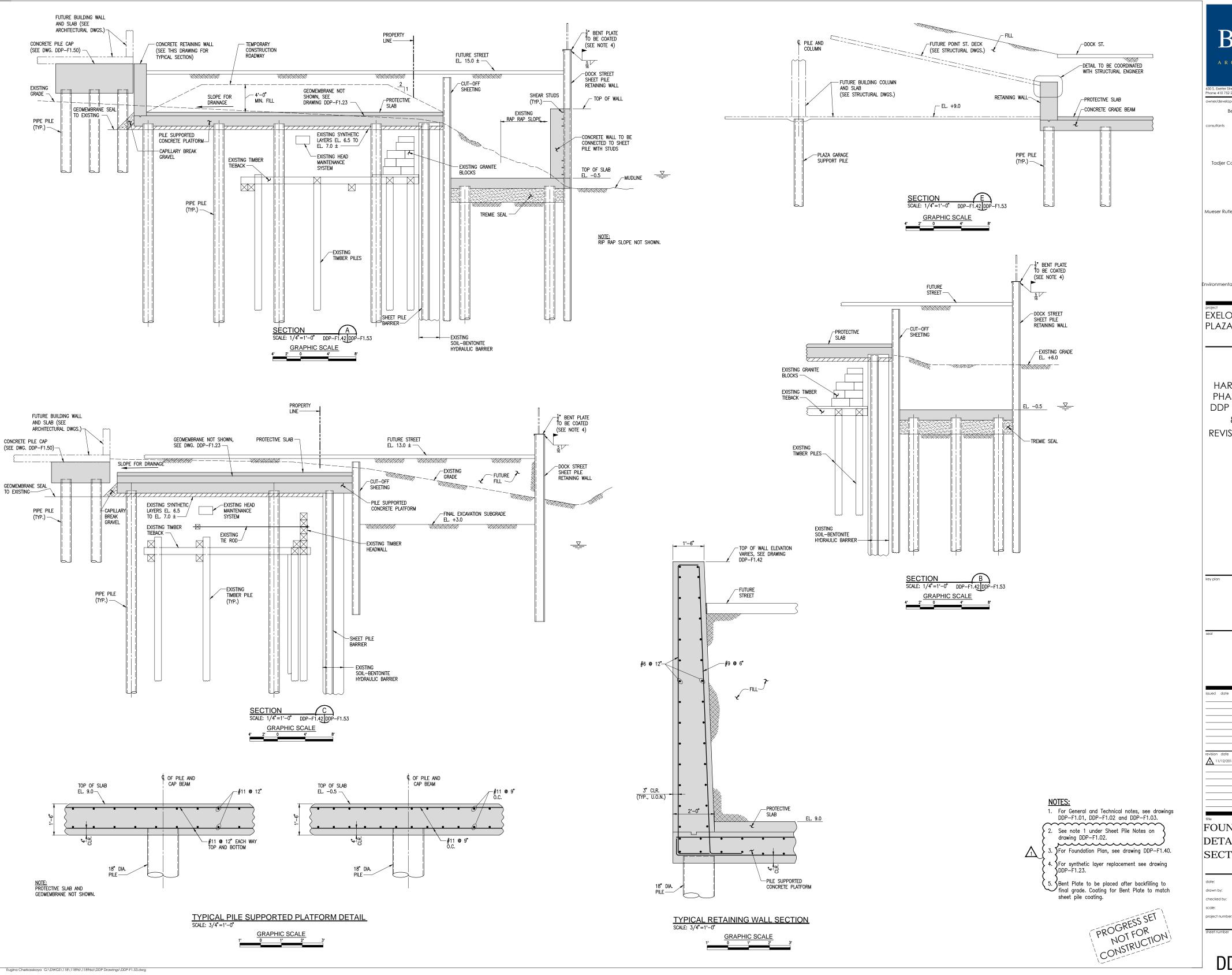
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10/31/2013 COMMENTS

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### FOUNDATION DETAILS AND SECTIONS

date: 07/01/13
drawn by: K.J.
checked by: S.Y.
scale: AS SHOWN
project number: MRCE-11896A
scaled inch



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EXELON BLDG & PLAZA GARAGE

HARBOR POINT PHASE 1 AREA 1 DDP SUBMISSION 8/1/13 REVISED 11/12/13

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issued date description

revision date description

\$\frac{11/12/2013}{2013 COMMENTS}\$

FOUNDATION
DETAILS AND
SECTIONS

 date:
 06/14/13

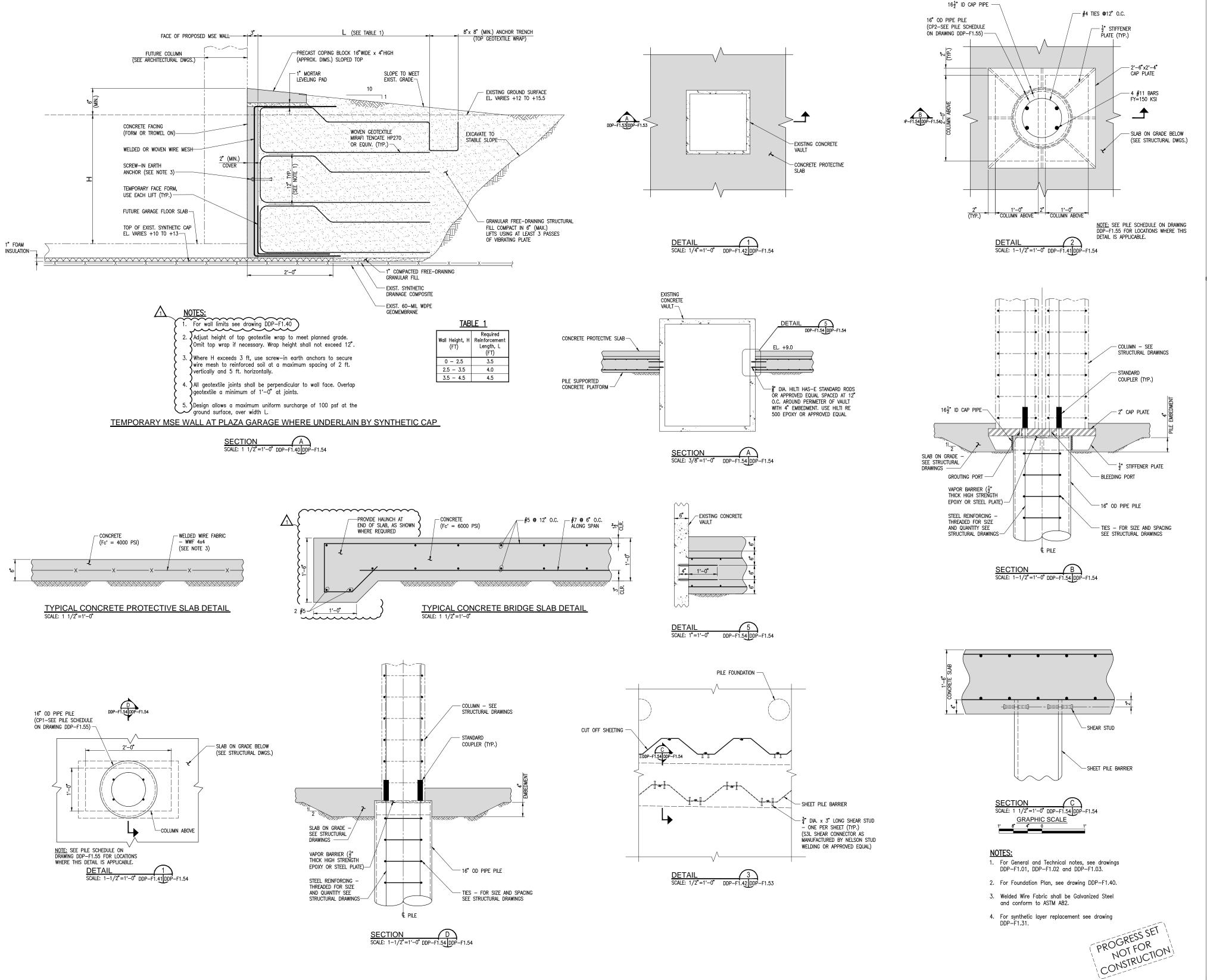
 drawn by:
 K.J.

 checked by:
 S.Y.

 scale:
 AS SHOWN

 project number:
 MRCE-11896A

 scaled inch



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BHC

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EXELON BLDG & PLAZA GARAGE

HARBOR POINT
PHASE 1 AREA 1
DDP SUBMISSION
8/1/13
REVISED 11/12/13

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issued date description

revision date description

11/12/2013 REVISIONS PER EPA/MDE 10/31/2013 COMMENTS

FOUNDATION DETAILS AND SECTIONS

date: 06/14/13
drawn by: K.J.
checked by: S.Y.
scale: NONE
project number: MRCE-11896A
scaled inch

Foundation Location

A-6

A-5

A-4

A-3

A-2

B-1

C-1

D-7.8

D-6

D-5

D-3.1

D-2

C-7.8

D - 7.3

C.5-2

Diameter

(Inches)

18

18

18

18

18

18

18

18

18

18

18

18

18

18

P6

P10

P10

P10

P7

P9

P10

P10

P7

P3

P6

P8

16.0

16.0

16.0

15.0

16.0

16.0

16.0

16.0

15.0

17.0

17.0

XD-X3.3

XD-X4.9

XD-X6.1

XD-X6.9

XD-X8

XE-X1.2

XE-X2.1

CP1

CP1

CP1

CP1

CP1

CP1

CP1

16

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16

16

Eugina Cherkasskaya G:\DWG\$\118\11896\11896a\DDP Drawings\DDP-F1.55.dwg

13.5 n/a 13.17

13.6 n/a 13.27

13.8 n/a 13.42

n/a

13.0 n/a 12.67

13.47

n/a 13.67

16 CP1 13.0 n/a 12.67 -42 -46.0 59.0

13.8

14.0

-42

-42

-42

-46.0

-42 | -46.0 | 60.0

-46.0

-46.0

64

64

63

60.0

60.0

60.0

59.0

-42 -46.0

-42 -46.0

-42 -46.0

17.0 1.67 15.83 C.5 - 318 FSP -43 | -47.0 | 63.0 C.5-4 17.0 1.67 15.83 -43 -47.0 18 FSP FSP 17.0 | 1.67 | 15.83 | -43 | -47.0 | 63.0 C.5-5 18 C.5-6 FSP 16.0 1.67 14.83 -43 -47.0 16.0 1.67 14.83 C.5-6.8 FSP -41 -45.0 60.0 18 FSP 16.0 1.67 14.83 -41 -45.060.0 E.2-6.8 18 P5 15.0 3.50 12.00 -42 -46.0 62 E-8 18 P4 15.0 3.00 12.50 -41 -45.0 58.0 62 4.00 11.50 E-10 15.0 -40 -44.0 E-6.1 18 P5 15.0 3.50 | 12.00 | -43 | -47.0 | 60.0 15.7 3.50 12.70 15.7 3.50 12.70 E-4.1 -44 | -48.0 | 61.0 18 P5 15.7 3.50 12.70 -43 -47.0 P3 15.7 3.00 13.20 -43 -47.0 E-2.1 18 60.0 E-1.2 18 P2 15.7 4.00 12.20 -43 | -47.0 | 60.0 64 4.00 F-1.2 18 14.9 11.40 -44 -48.0 F-2.1 14.9 3.00 12.40 -45 -49.0 61.0 65 F-3.1 14.9 4.25 11.15 -45 -49.0 F-4.1 P7 14.9 4.25 11.15 18 -45 | -49.0 60.0 14.9 4.25 11.15 -49.0 F-6.1 10.75 18 14.5 4.25 -44 | -48.0 | 57.0 F-7.1 18 P7 12.0 4.25 8.25 -43 -47.0 56.0 F-7.8 12.0 5.25 7.25 -42 -46.0 54.0 58 P8 18 F-10 12.0 5.50 7.00 -41 -45.053.0 12.0 4.00 8.50 G-10 18 P3 -38 -42.0 G - 8.918 P5 12.0 4.50 8.00 -39 | -43.0 | 52.0 4.25 10.25 -45 -49.0 G-6.1 14.0 18 P8 -46 | -50.0 | G-4.1 14.0 5.25 9.25 60.0 5.25 9.25 14.0 3.00 11.50 61.0 65 G - 2.118 P4 -45 -49.0 14.0 4.00 10.50 -45 -49.061.0 65 18 P2 15.0 4.00 11.50 -45 -49.0 62.0 66 G.9 - 2.118 P3 15.0 4.00 11.50 -45 | -49.0 | 62.0 5.25 10.25 H-3.1 15.0 -45 -49.0 6.9 - 618 P9 14.0 6.00 8.50 -45 | -49.0 59.0 63 18 14.0 4.00 10.50 -38 -42.0 14.0 4.00 10.50 -38 -42.0 G.7-10 18 P2 54.0 58 G-5.1 14.5 4.25 10.75 -50.0 P9 14.0 6.00 8.50 -41 -45.0 55.0 59 H-9 18 E.5-1.2 18 P2 15.3 4.00 11.80 -43 | -47.0 | 60.0 4.00 F.5-1.2 14.5 11.00 -45 -49.0 P2 G.5-1.2 14.7 4.00 11.20 -45 -49.061.0 3.00 E.5-2.1 18 P3 15.3 12.80 -44 -48.0 14.5 3.00 12.00 F.5-2.1 18 P3 -45 | -49.0 | 3.00 12.20 -49.0 12.0 3.00 9.50 F-8.7 -41 -45.0 55.0 E.5-3.1 FSP 16.3 1.67 15.13 -44 -48.0 63.0 15.13 E.5-4.1 FSP 16.3 1.67 -45 -49.0 64.0 68 18 E.5-5.1 FSP 16.3 1.67 15.13 -45 -49.0 64.0 68 16.0 1.67 14.83 E.5-6.1 18 FSP -44 -48.0 16.0 1.67 14.83 E.5-7.8 18 FSP -42 | -46.0 | 61.0 -40 -44.0 E.5-10 16.0 1.67 14.83 F.6-3.1 FSP 15.6 | 1.67 | 14.43 | -45 | -49.0 | 64.0 15.6 1.67 14.43 -46 -50.0 15.6 1.67 14.43 -46 -50.0 F.6-5.1 FSP 65.0 69 18 F.6-6.1 FSP 15.5 1.67 14.33 -45 -49.0 61.0 65 15.75 1.67 14.58 -46 -50.0 65.0 G.4.1-3.1 18 FSP 69 15.75 1.67 14.58 G.4.1-4.1 18 FSP -46 | -50.0 65.0 69 14.58 -46 -50.0 65.0 1.67 13.83 -46 -50.0 FSP 15.0 64.0 68 13.0 n/a -46.0 59.0 XA-X1.3 16 CP1 12.67 -42 63 XA-X2.8 13.3 n/a 12.92 -42 -46.0XA-X3.9 CP1 13.5 n/a 13.17 -42 -46.0 60.0 XA-X4.8 CP1 13.6 13.27 60.0 64 16 n/a -42 -46.0 XA-X6 13.8 n/a 13.42 -46.0 CP1 -42 60.0 XA-X7 CP1 13.8 n/a 13.47 -42 -46.060.0 64 XA-X8 CP1 14.0 n/a 13.67 -42 -46.060.0 n/a XB-X1.3 CP1 13.0 12.67 -42 -46.0 13.3 n/a 12.92 -42 13.5 n/a 13.17 60.0 64 XB-X3.9 16 CP1 -42 -46.0 13.6 n/a 13.27 64 XB-X4.8 CP1 -42 -46.0 60.0 16 13.8 n/a XB-X6 16 CP1 13.42 -42 -46.060.0 64 XB-X7 CP1 13.8 n/a 13.47 n/a 13.67 CP1 -46.0XB-X8 14.0 -42 60.0 CP1 n/a 12.67 XC-X2.1 13.0 -42 -46.0XC-X2.9 CP1 13.3 n/a 12.92 -42 13.5 n/a 13.17 XC-X4.1 16 CP1 -42 | -46.0 | 60.0 13.6 n/a 13.27 XC-X4.9 CP1 60.0 64 16 -42 -46.0 XC-X6.1 CP1 13.8 n/a 13.42 -42 -46.060.0 64 16 CP1 13.8 n/a 13.47 -42 XC-X8 16 CP1 14.0 n/a 13.67 -42 | -46.0 | 60.0 13.0 n/a 12.67 XD-X2.1 CP1 -42 -46.013.3 n/a 12.92

PILE SCHEDULE

16.0 5.50 11.00

5.25

6.50

16.0 5.25 11.25

5.25

5.50

5.50

5.00

5.00

16.0 4.25 12.25

4.50

16.0 | 4.00 | 12.50 |

15.0 5.50 10.00

5.25

1.67

1.67

16.0 6.50

16.0 6.50

16.0 5.25

16.0 6.00

15.0 5.50

Pile Cap Designation Pile Cap Depth EL. (Feet) Pile Cap EL. (Feet) EL. (Feet) EL. (Feet) Estimated Cut—Off EL. (Feet) EL. (Feet) EL. (Feet) Estimated Top of S4 Strata EL. (Feet) Estimated Estimated Top of S4 Strata EL. (Feet) Estimated Estimated Top of S4 Strata EL. (Feet) Estimated Esti

11.25

10.00

10.00

10.00

11.25

10.50

11.25

10.00

10.00

11.00

11.50

12.00

10.25

15.83

15.83

11.50

(Feet)

-40

-39

-43

-42

Length (Feet)

57.0

55.0

54.0

56.0

56.0

58.0

56.0

59.0

59.0

60.0

59.0

56.0

62.0

60

59

58

60

60

63

64

63

60

-40 -44.0 56.0

-44.0

-43.0

-45.0

-47.0

-47.0

-46.0

-40 -44.0

-39 -43.0

-39 | -43.0 |

-39 -43.0

-40 | -44.0 |

-41 -45.0

-43 | -47.0 |

-43 -47.0

-43 -47.0

-43 -47.0

-41 | -45.0 |

-41 -45.0

-41 -45.0

-42 -46.0

				PILE	SCHEDU	JLE	_	_		_
Foundati	on Location	Pile Diameter (Inches)	Pile Cap Designation	Top of Pile Cap EL. (Feet)	Pile Cap Depth (Feet)	Pile Cut-Off EL. (Feet)	Estimated Top of S4 Strata EL.	Estimated Tip EL. (Feet)	Estimated Pile Length	Estimated Pile Order Length
	XE-X3.3	16	CP1	13.3	` ,	12.92	(Feet) -42	-46.0	(Feet) 59.0	(Feet)
	XE-X3.3	16	CP1	13.5	n/a n/a	13.17	-42 -42	-46.0 -46.0	60.0	64
	XE-X4.9	16	CP1	13.6	n/a	13.27	-42	-46.0	60.0	64
	XE-X6.1	16	CP1	13.8	n/a	13.42	-42	-46.0	60.0	64
	XE-X6.9 XE-X8	16	CP1	13.8	n/a	13.47	-42 42	-46.0	60.0	64
	XF-X2.1	16 16	CP1	14.0 13.0	n/a n/a	13.67 12.67	-42 -42	-46.0 -46.0	60.0 59.0	64 63
	XF-X3.3	16	CP1	13.3	n/a	12.92	-42	-46.0	59.0	63
	XF-X4.1	16	CP1	13.5	n/a	13.17	-42	-46.0	60.0	64
	XF-X4.9	16	CP1	13.6	n/a	13.27	-42	-46.0	60.0	64
	XF-X6.1 XF-X6.9	16 16	CP1	13.8 13.8	n/a n/a	13.42 13.47	-42 -42	-46.0 -46.0	60.0 60.0	64 64
	XF-X8	16	CP1	14.0	n/a	13.67	-42	-46.0	60.0	64
	XG-X2.1	16	CP1	13.0	n/a	12.67	-42	-46.0	59.0	63
	XG-X3.3	16	CP1	13.3	n/a	12.92	-42	-46.0	59.0	63
	XG-X4.1 XG-X4.9	16 16	CP1	13.5 13.6	n/a n/a	13.17 13.27	-42 -42	-46.0 -46.0	60.0	64 64
	XG-X4.3	16	CP1	13.8	n/a	13.42	-42	-46.0	60.0	64
	XG-X6.9	16	CP1	13.8	n/a	13.47	-42	-46.0	60.0	64
	XG-X8	16	CP1	14.0	n/a	13.67	-42	-46.0	60.0	64
	XH-X1.2	16	CP2 CP2	13.0 13.0	n/a	12.67	-42 -42	-46.0	59.0	63
	XH-X2.1 XH-X3.3	16 16	CP2	13.3	n/a n/a	12.67 12.92	-42 -42	-46.0 -46.0	59.0 59.0	63 63
	XH-X4.1	16	CP2	13.5	n/a	13.17	-42	-46.0	60.0	64
	XH-X4.9	16	CP2	13.6	n/a	13.27	-42	-46.0	60.0	64
	XH-X6.1	16	CP2	13.8	n/a	13.42	-42	-46.0	60.0	64
	XH-X6.9 XH-X8	16 16	CP2 CP2	13.8 14.0	n/a n/a	13.47 13.67	-42 -42	-46.0 -46.0	60.0 60.0	64 64
South	XIIII XIII XIII XIII XIII XIII XIII XI	16	CP2	13.0	n/a	12.67	-42 -42	-46.0 -46.0	59.0	63
Plaza Garage South	XJ-X2.1	16	CP1	13.0	n/a	12.67	-42	-46.0	59.0	63
ı Gar	XJ-X3.3	16	CP1	13.3	n/a	12.92	-42	-46.0	59.0	63
Plazc	XJ-X4.1 XJ-X4.9	16 16	CP1	13.5 13.6	n/a n/a	13.17	-42 -42	-46.0 -46.0	60.0 60.0	64 64
	XJ-X4.9 XJ-X6.1	16	CP1	13.8	n/a n/a	13.27 13.42	-42 -42	-46.0 -46.0	60.0	64
	XJ-X6.9	16	CP1	13.8	n/a	13.47	-42	-46.0	60.0	64
	XJ-X8	16	CP1	14.0	n/a	13.67	-42	-46.0	60.0	64
	XK-X1.2	16	CP1	13.0	n/a	12.67	-43	-47.0	60.0	64
	XK-X2.1 XK-X3.3	16 16	CP1	13.0 13.3	n/a n/a	12.67 12.92	-43 -43	-47.0 -47.0	60.0 60.0	64 64
	XK-X4.1	16	CP1	13.5	n/a	13.17	-43 -43	-47.0 -47.0	61.0	65
	XK-X4.9	16	CP1	13.6	n/a	13.27	-43	-47.0	61.0	65
	XK-X6.1	16	CP1	13.8	n/a	13.42	-43	-47.0	61.0	65
	XK-X6.9	16	CP1	13.8	n/a n/a	13.47	-43	-47.0	61.0	65
	XK-X8 XL-X1.2	16 16	CP1	14.0 13.0	n/a	13.67 12.67	-43 -43	-47.0 -47.0	61.0 60.0	65 64
	XL-X2.1	16	CP1	13.0	n/a	12.67	-43	-47.0	60.0	64
	XL-X3.3	16	CP1	13.3	n/a	12.92	-43	-47.0	60.0	64
	XL-X4.1	16	CP1	13.5	n/a	13.17	-43	-47.0	61.0	65
	XL-X4.9 XL-X6.1	16 16	CP1	13.6 13.8	n/a n/a	13.27 13.42	-43 -43	-47.0 -47.0	61.0 61.0	65 65
	XL-X6.9	16	CP1	13.8	n/a	13.47	-43	-47.0	61.0	65
	XL-X8	16	CP1	14.0	n/a	13.67	-43	-47.0	61.0	65
	XM-X1.2	16	CP1	13.0	n/a	12.67	-43	-47.0	60.0	64
	XM-X2.1 XM-X3.3	16 16	CP1	13.0 13.3	n/a n/a	12.67 12.92	-43 -43	-47.0 -47.0	60.0 60.0	64 64
	XM-X4.1	16	CP1	13.5	n/a	13.17	-43	-47.0	61.0	65
	XM-X4.9	16	CP1	13.6	n/a	13.27	-43	-47.0	61.0	65
	XM-X6.1	16	CP1	13.8	n/a	13.42	-43	-47.0	61.0	65
	XM-X6.9 XM-X8	16 16	CP1	13.8 14.0	n/a n/a	13.47 13.67	-43 -43	-47.0 -47.0	61.0 61.0	65 65
	XN-X1.2	16	CP1	13.0	n/a	12.67	-45 -46	-50.0	63.0	67
	XN-X2.1	16	CP1	13.0	n/a	12.67	-46	-50.0	63.0	67
	XN-X3.3	16	CP1	13.3	n/a	12.92	-46	-50.0	63.0	67
	XN-X4.1	16	CP1	13.5	n/a	13.17	-46	-50.0	64.0	68
	XN-X4.9 XN-X6.1	16 16	CP1	13.6 13.8	n/a n/a	13.27 13.42	-44 -43	-48.0 -47.0	62.0 61.0	66 65
	XN-X6.9	16	CP1	13.8	n/a	13.47	-45 -45	-49.0	63.0	67
	XN-X8	16	CP1	14.0	n/a	13.67	-45	-49.0	63.0	67
	XP-X1.2	16	CP2	13.0	n/a	12.67	-46 40	-50.0	63.0	67
	XP-X2.1 XP-X3.3	16 16	CP2 CP2	13.0 13.3	n/a n/a	12.67 12.92	-46 -46	-50.0 -50.0	63.0 63.0	67 67
	XP-X3.3 XP-X4.1	16	CP2	13.5	n/a n/a	13.17	-46 -46	-50.0 -50.0	64.0	68
	XP-X4.9	16	CP2	13.6	n/a	13.27	-44	-48.0	62.0	66
	XP-X6.1	16	CP2	13.8	n/a	13.42	-45	-49.0	63.0	67
	XP-X6.9 XP-X8	16 16	CP2 CP2	13.8 14.0	n/a n/a	13.47 13.67	-48 -48	-52.0 -52.0	66.0 66.0	70 70
	XP-X8 XQ-X1.2	16	CP2 CP1	13.0	n/a n/a	13.67	-48 -46	-52.0 -50.0	66.0 63.0	67
	XQ-X2.1	16	CP1	13.0	n/a	12.67	-46	-50.0	63.0	67
	XQ-X3.3	16	CP1	13.3	n/a	12.92	-46	-50.0	63.0	67
£	XQ-X4.1	16	CP1	13.5	n/a	13.17	-46 48	-50.0	64.0	68
Plaza Garage South	XQ-X4.9 XQ-X6.1	16 16	CP1	13.6 13.8	n/a n/a	13.27 13.42	-48 -50	-52.0 -54.0	66.0 68.0	70 72
rage	XQ-X6.1 XQ-X6.9	16	CP1	13.8	n/a	13.47	-50 -51	-5 <del>4.</del> 0	69.0	73
ā Ga	XQ-X8	16	CP1	14.0	n/a	13.67	-52	-56.0	70.0	74
Plaz	XR-X1.2	16	CP1	13.0	n/a	12.67	-49	-53.0	66.0	70
	XR-X2.1	16	CP1	13.0	n/a	12.67	-49 40	-53.0	66.0	70
	XR-X3.3 XR-X4.1	16 16	CP1	13.3 13.5	n/a n/a	12.92 13.17	-49 -49	-53.0 -53.0	66.0 67.0	70 71
	XR-X4.1 XR-X4.9	16	CP1	13.6	n/a n/a	13.17	-49 -49	-53.0 -53.0	67.0	71
	XR-X6.1	16	CP1	13.8	n/a	13.42	-51	-55.0	69.0	73
	XR-X6.9	16	CP1	13.8	n/a	13.47	-53	-57.0	71.0	75
	XR-X8	16	CP1	14.0	n/a	13.67	-54	-58.0	72.0	76
	XS-X2.1	16	CP1	13.0	n/a	12.67	-49 40	-53.0	66.0	70
	XS-X3.3 XS-X4.1	16 16	CP1	13.3 13.5	n/a n/a	12.92 13.17	-49 -49	-53.0 -53.0	66.0 67.0	70 71
	XS-X4.1 XS-X4.9	16	CP1	13.6	n/a	13.17	- <del>49</del> -50	-53.0 -54.0	68.0	71
	XS-X6.1	16	CP1	13.8	n/a	13.42	-51	-55.0	69.0	73
	XS-X6.9	16	CP1	13.8	n/a	13.47	-53	-57.0	71.0	75
	XS-X8	16	CP1	14.0	n/a	13.67	-53	-57.0	71.0	75 70
	XT-X2	16	CP1	13.0 13.3	n/a n/a	12.67 12.92	-49 -49	-53.0 -53.0	66.0 66.0	70 70
	YT_YZ	16	1		1174	14.34	+3			/ / /
	XT-X3 XT-X4	16 16	CP1 CP1	13.5	n/a	13.17	-49	-53.0	67.0	71
						13.17 13.27	-49 -49	-53.0 -53.0		

				PILE	SCHEDU	JLE				
Foundatio	n Location	Pile Diameter (Inches)	Pile Cap Designation	Top of Pile Cap EL. (Feet)	Pile Cap Depth (Feet)	Pile Cut-Off EL. (Feet)	Estimated Top of S4 Strata EL. (Feet)	Estimated Tip EL. (Feet)	Estimated Pile Length (Feet)	Estima Pile Ord Lengt (Feet
	XT-X8	16	CP1	14.0	n/a	13.67	-53 40	-57.0	71.0	75
	XU-X2 XU-X3	16 16	CP1	13.0 13.3	n/a n/a	12.67 12.92	-49 -49	-53.0 -53.0	66.0 66.0	70 70
	XU-X3	16	CP1	13.5	n/a	13.17	- <del>49</del>	-53.0	67.0	70
	XU-X <del>4</del> XU-X5	16	CP1	13.6	n/a	13.17	-49 -49	-53.0	67.0	71
	XU-X5.3	16	CP1	13.7	n/a	13.37	-51	-55.0	69.0	73
	XU-X6.1A	16	CP1	13.8	n/a	13.47	-53	-57.0	71.0	75
	XU-X7	16	CP1	13.8	n/a	13.47	-52	-56.0	70.0	74
	XU-X7	16	CP1	14.0	n/a	13.67	-53	-57.0	71.0	75
	XA-X3.4	16	CP1	13.5	n/a	13.17	-33 -42	-37.0 -46.0	60.0	64
	XA-X5.4 XA-X5.1	16	CP1	13.6	n/a	13.17	- <del>4</del> 2	-46.0 -46.0	60.0	64
	XB-X3.4	16	CP1	13.5	n/a	13.17	-42 -42	-46.0 -46.0	60.0	64
				13.6						
	XB-X5.1	16	CP1		n/a	13.27	-42	-46.0	60.0	64
	XC-X3.3	16	CP1	13.3	n/a - /-	12.92	-42	-46.0	59.0	63
	XC-X7.3	16	CP1	13.8	n/a	13.47	-42	-46.0	60.0	64
	XD-X2.9	16	CP1	13.3	n/a	12.92	-42 -42	-46.0 -46.0	59.0 60.0	63 64
	XD-X7.3 XE-X2.9	16 16	CP1	13.8 13.3	n/a n/a	13.47 12.92	-42 -42	-46.0 -46.0	59.0	63
	XE-X2.9 XE-X7.3	16	CP1	13.8	n/a	13.47	-42 -42	-46.0 -46.0	60.0	64
	XF-X2.9	16	CP1	13.3	n/a	12.92	- <del>4</del> 2	-46.0 -46.0	59.0	63
onth	XF-X7.3	16	CP1	13.8	n/a	13.47	- <del>4</del> 2	-46.0 -46.0	60.0	64
Plaza Garage South					n/a			-46.0 -46.0		63
arag	XG-X2.9	16	CP1	13.3	· · ·	12.92	-42 42		59.0	
ن ق	XG-X7.3	16	CP1	13.8	n/a	13.47	-42	-46.0	60.0	64
Plaz	XH-X2.9	16	CP2	13.3	n/a	12.92	-42	-46.0	59.0	63
	XH-X7.3	16	CP2	13.8	n/a	13.47	-42	-46.0	60.0	64
	XJ-X2.9 Y.I-X7.3	16	CP1	13.3	n/a n/a	12.92	-42 -42	-46.0 -46.0	59.0 60.0	63 64
	XJ-X7.3 XK-X2.9	16		13.8		13.47	-42 -43	-46.0 -47.0	60.0	
	XK-X2.9	16	CP1	13.3	n/a	12.92	-43 -43	-47.0 -47.0	60.0	64
	XK-X7.3	16	CP1	13.8	n/a	13.47	-43 -43	-47.0 -47.0	61.0	65
	XL-X2.9	16	CP1	13.3	n/a	12.92	-43	-47.0	60.0	64
	XL-X7.3	16	CP1	13.8	n/a	13.47	-43 43	-47.0	61.0	65
	XM-X2.9	16	CP1	13.3	n/a	12.92	-43 -43	-47.0	60.0	64
	XM-X7.3	16	CP1	13.8	n/a	13.47	-43 -46	-47.0 -50.0	61.0	65
	XN-X2.9	16	CP1	13.3	n/a	12.92	-46 45	-50.0	63.0	67
	XN-X7.3	16	CP1	13.8	n/a	13.47	-45 46	-49.0 50.0	63.0	67
	XP-X2.9	16	CP2	13.3	n/a	12.92	-46 -48	-50.0	63.0	67
	XP-X7.3	16	CP2	13.8	n/a	13.47	-48 -46	-52.0 -50.0	66.0	70
	XQ-X2.9	16	CP1	13.3	n/a	12.92	-46	-50.0	63.0	67
	XQ-X7.3	16	CP1	13.8	n/a	13.47	-51	-55.0	69.0	73
	XR-X2.9	16	CP1	13.3	n/a	12.92	-49	-53.0	66.0	70
	XR-X7.3	16	CP1	13.8	n/a	13.47	-53	-57.0	71.0	75
	XS-X2.9	16	CP1	13.3	n/a	12.92	-49	-53.0	66.0	70
	XS-X5.2	16	CP1	13.6	n/a	13.27	-50	-54.0	68.0	72
	XS-X7.3	16	CP1	13.8	n/a	13.47	-53	-57.0	71.0	75
	XA-5.3	18	CP1	9.2	n/a	8.87	-39	-43.0	52.0	56
	XA-4.3	18	CP1	9.9	n/a	9.57	-39	-43.0	53.0	57
	XA-4.1	18	CP1	10.7	n/a	10.37	-39	-43.0	54.0	58
	XA-X0	18	CP1	11.4	n/a	11.05	-39	-43.0	55.0	59
	XA-X0.2	18	CP1	12.3	n/a	11.92	-39 -39	-43.0	55.0	59
	XA-X1.1	18	CP1	13.0	n/a	12.67	-39 -70	-43.0	56.0	60
	XB-5.3	18	CP1	9.2	n/a	8.87	-39	-43.0	52.0	56
	XB-4.3	18	CP1	9.9	n/a	9.57	-39	-43.0	53.0	57
Plaza Garage West	XB-4.1	18	CP1	10.7	n/a	10.37	-39	-43.0	54.0	58
1ge	XB-X0	18	CP1	11.4	n/a	11.05	-39	-43.0	55.0	59
Garc	XB-X0.2	18	CP1	12.3	n/a	11.92	-39	-43.0	55.0	59
DZC	XB-X1.1	18	CP1	13.0	n/a	12.67	-39	-43.0	56.0	60
ă	XC-5.3	18	CP1	9.2	n/a	8.87	-39	-43.0	52.0	56
	XC-4.3	18	CP1	9.9	n/a	9.57	-39	-43.0	53.0	57
	XC-3.5	18	CP1	10.8	n/a	10.47	-39	-43.0	54.0	58
	XC-3.2	18	CP1	11.1	n/a	10.77	-39	-43.0	54.0	58
	XC-X0.1	18	CP1	12.3	n/a	11.92	-39	-43.0	55.0	59
	XC-X1.1	18	CP1	13.0	n/a	12.67	-39	-43.0	56.0	60
	XD-5.3	18	CP1	9.2	n/a	8.87	-39 -70	-43.0	52.0	56
	XA-3.3	18	CP1	11.4	n/a	11.05	-39 -70	-43.0	55.0	59
	XB-3.3	18	CP1	11.4	n/a	11.05	-39 46	-43.0	55.0	59
	XR.1-X0.1	18	CP1	12.1	n/a	11.77	-46 46	-50.0	62.0	66
	XR.1-X1.0	18	CP1	13.0	n/a	12.67	-46 48	-50.0	63.0	67
	XS-4.2	18	CP1	10.4	n/a	10.07	-48 48	-52.0	63.0	67
	XS-3.4	18	CP1	11.0	n/a	10.67	-48	-52.0	63.0	67
	XS-3.2	18	CP1	11.0	n/a	10.67	-48 48	-52.0	63.0	67
	XS-X0.1	18	CP1	12.1	n/a	11.77	-48	-52.0	64.0	68
<sub>-</sub>	XT-5.2	18	CP1	10.2	n/a	9.87	-50	-54.0	64.0	68
Eds	XT-4.2	18	CP1	10.4	n/a	10.07	-50	-54.0	65.0	69
dge	XT-3.4	18	CP1	11.0	n/a	10.67	-50 50	-54.0	65.0	69
Plaza Garage East	XT-3.2	18	CP1	11.0	n/a	10.67	-50 50	-54.0	65.0	69
DZD	XT-X0.1	18	CP1	12.1	n/a	11.77	-50 50	-54.0 54.0	66.0	70
₫	XU-5.2	18	CP1	10.2	n/a	9.87	-50	-54.0	64.0	68
	XU-4.2	18	CP1	10.4	n/a - /-	10.07	-50	-54.0	65.0	69
	XU-3.4	18	CP1	11.0	n/a	10.67	-52 52	-56.0	67.0	71
	XU-3.2	18	CP1	11.0	n/a	10.67	-52 50	-56.0	67.0	71
	XU-X0.1	18	CP1	12.1	n/a	11.77	-50	-54.0	66.0	70
	XS-X1.1	18	CP1	13.0	n/a	12.67	-48	-52.0	65.0	69
	XT-X1.1	18	CP1	13.0	n/a	12.67	-50	-54.0	67.0	71
	XU-X1.1	18	CP1	13.0	n/a	12.67	-50	-54.0	67.0	71
Je =	G.4-9.5	18	P1	12.0	3.00	9.50	-41	-45.0	54.5	59
Transfer Station	G.4-9.1	18	P1	12.0	3.00	9.50	-41 -41	-45.0 -45.0	54.5	59 50
ية ك	G.4-8.1	18	P1	12.0	3.00	9.50	-41 -41	-45.0 -45.0	54.5 54.5	59 50
	G.4-7.4	18	P1	12.0	3.00	9.50 2.50	-41 -41	-45.0 -45.0	54.5 48.0	59 52
	B/C-7/6	18	P94	Varies	Varies	9.50	-41 -41	-45.0 -45.0	55.0	56
_	B/C-5	18	P44	Varies	Varies	4.75	-41	-45.0 -45.0	50.0	54
<b>π</b> σ	B/C-4/3	18	P99	Varies	Varies	8.00	-41 -41	-45.0 -45.0	53.0	57
ĕĕ I	B/C-4/3	18	P99 P40	Varies	Varies	6.00	-41 -41	-45.0 -45.0	51.0	55
iear Wo Te Cap	G-7.1/8	18	P40 P54	Varies	7.00	5.50	-41 -41	- <del>4</del> 5.0	51.0	55
Shear Wall Pile Caps	· ·									
Shear Wo Pile Cap	G.9-5.1/4.1	18	P52	Varies	5.00	10.50	-45	-49.0	60.0	64
Shear Wo	,	18	FSP	14.0	n/a	12.30	-46	-50.0	63.0	67
Shear Wo	XR.1-7		FSP	14.0	n/a	12.30	-46	-50.0	63.0	67
	XR.1-7 XR.1-6.2	18			n/a	12.30	-48	-52.0	65.0	69
		18 18	FSP	14.0	117 4		1		1	
	XR.1-6.2		FSP FSP	14.0 14.0		12.30	-48	-52.0	65.0	69
Wills St. Platform Support Pile Cap	XR.1-6.2 XS-7 XS-6.2	18			n/a n/a					69 67
	XR.1-6.2 XS-7	18 18	FSP	14.0	n/a	12.30	-48	-52.0	65.0	
	XR.1-6.2 XS-7 XS-6.2 XR.1-5.2 XS-5.2	18 18 18	FSP FSP	14.0 14.0	n/a n/a	12.30 12.30	-48 -46	-52.0 -50.0	65.0 63.0	67
Wills St. Platform Support	XR.1-6.2 XS-7 XS-6.2 XR.1-5.2 XS-5.2 Piles East of Column	18 18 18	FSP FSP	14.0 14.0	n/a n/a	12.30 12.30	-48 -46	-52.0 -50.0	65.0 63.0	67
	XR.1-6.2 XS-7 XS-6.2 XR.1-5.2 XS-5.2 Piles East	18 18 18 18	FSP FSP FSP	14.0 14.0 14.0	n/a n/a n/a	12.30 12.30 12.30	-48 -46 -48	-52.0 -50.0 -52.0	65.0 63.0 65.0	67 69

- 1. Piles shown as 16 inch OD Piles shall be 16 inch OD Pipe x  $\frac{1}{2}$ " Wall ASTM A252 Grade (Fy = 45ksi) with Conical Tip Filled with Concrete (fc = 4000 psi).
- 2. Piles shown as 18 inch OD Piles shall be 18 inch OD Pipe x  $\frac{1}{2}$ " Wall ASTM
- A252 Grade (Fy = 45ksi) with Conical Tip Filled with Concrete (fc=4000 psi). 3. Conical tip shall be P-14006 Conical Point inside flange as manufactured by
- Associated Pile and Fitting or approved equal. 4. Conical tip shall be full penetration welded to steel pipe.
- 5. Steel grade of conical tip shall match that of pipe.
- 6. Pile Lengths shown are based on actual pile lengths estimated from cut off elevation to an estimated tip elevation and do not include the additional length that may be required for installing piles from existing grades.

### Abbreviations:

- FSP Floor Support Slab
- CP1 Concentric Pile Single Column (see Detail 2 on drawing DDP-F1.54) CP2 - Concentric Pile Double Column (see Detail 1 on drawing DDP-F1.54)
- P6 Pile Cap with 6 Piles

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**EXELON BLDG &** PLAZA GARAGE

HARBOR POINT PHASE 1 AREA 1 **DDP SUBMISSION** 8/1/13 REVISED 11/12/13

revision date description

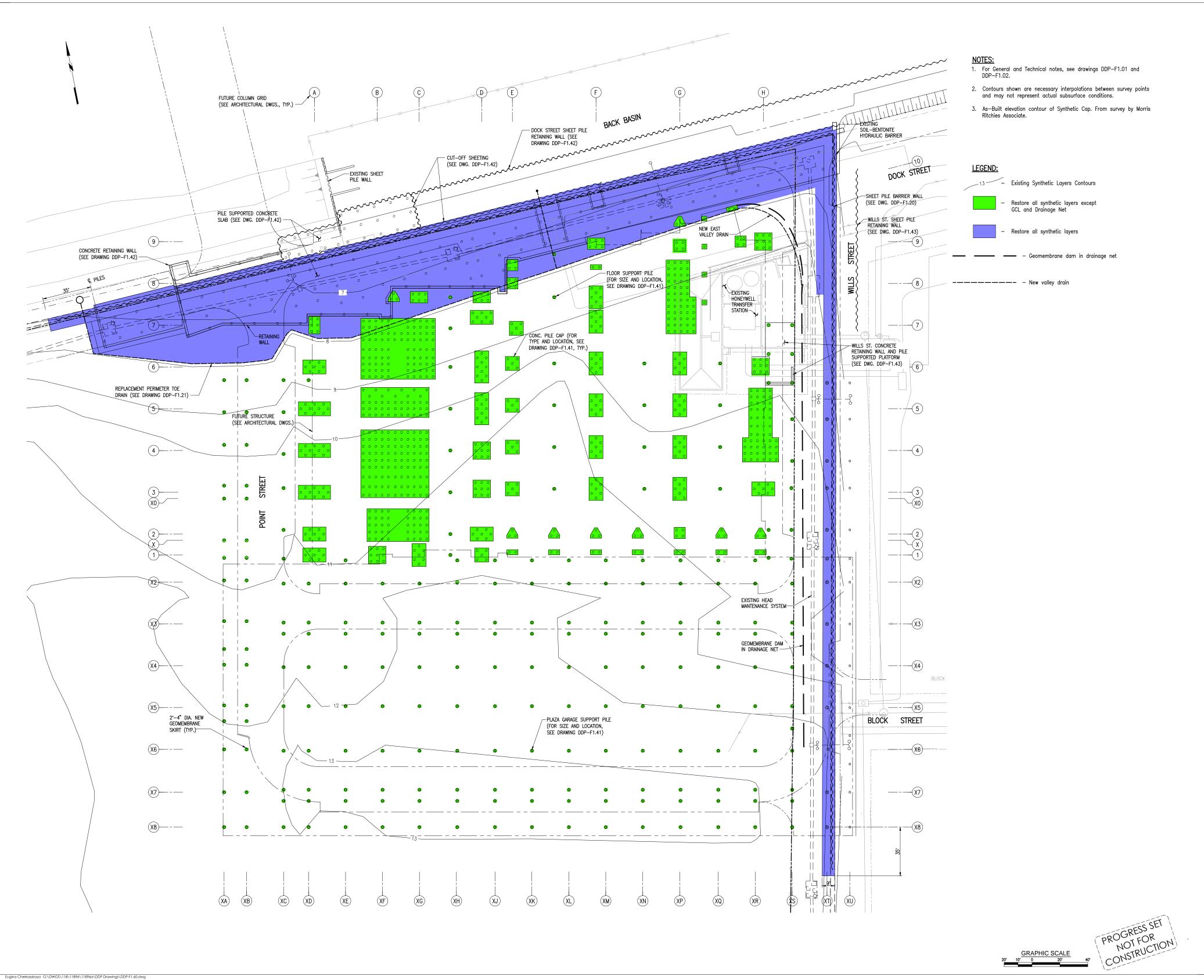
A 11/12/2013 REVISIONS PER EPA/MDE 10/31/2013 COMMENTS

PILE

SCHEDULE

drawn by: hecked by oroject number

NOTFOR CONSTRUCTION



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EXELON BLDG & PLAZA GARAGE

HARBOR POINT PHASE 1 AREA 1 DDP SUBMISSION 8/1/13 REVISED 11/12/13

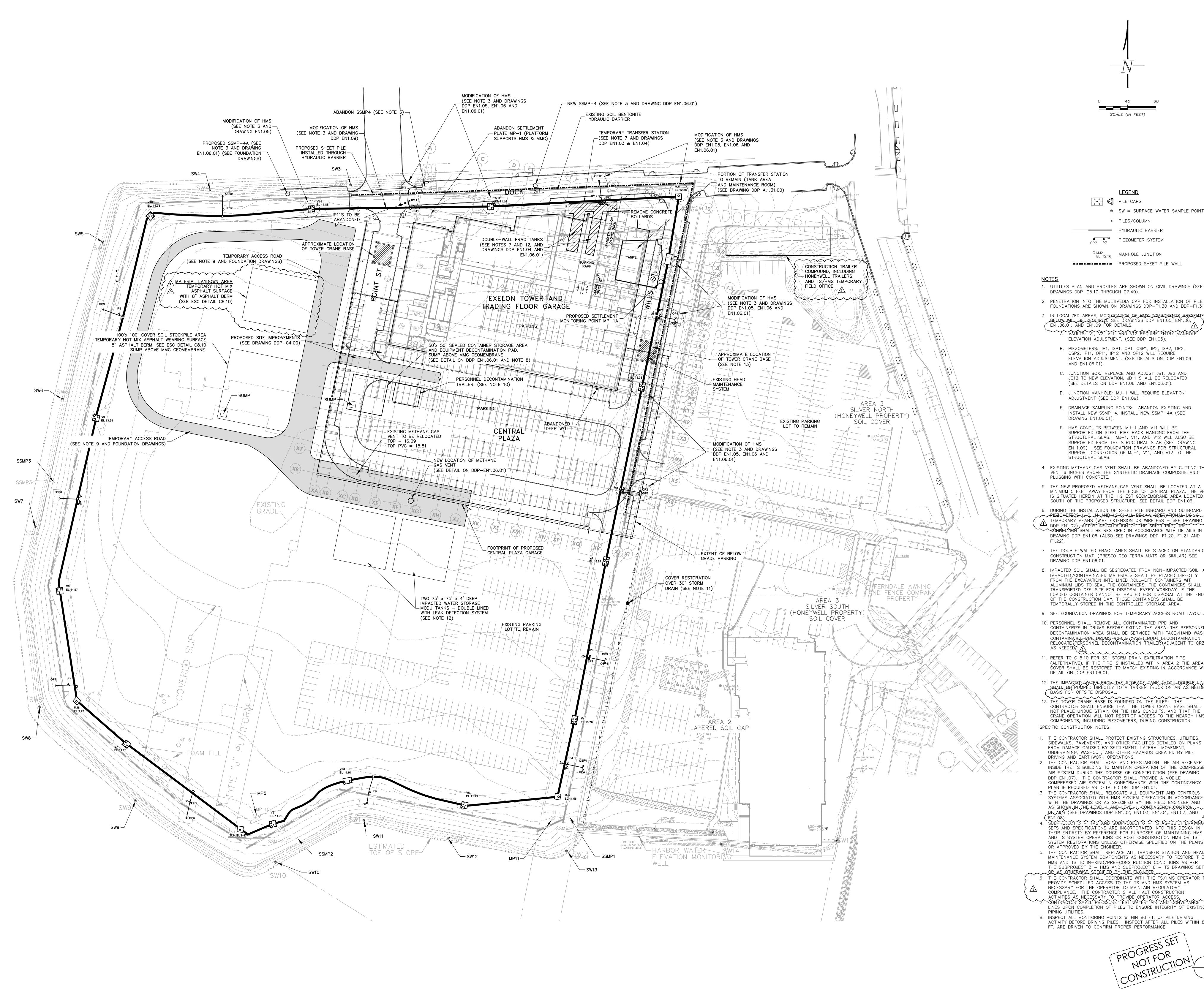
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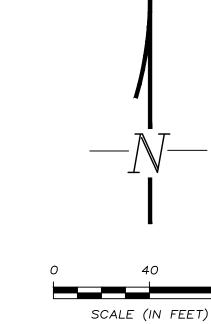
11/12/2013 REVISIONS PER EPA/MDE 10/31/2013 COMMENTS

DEVELOPMENT CAP PLAN

date: 06/14/13
drawn by: E.C.
checked by: G.S.
scale: 1:20
project number: MRCE-11896A
scaled inch



0199768-03/REMD SYSTEM IMPROVEMENTS



<u>LEGEND</u>

PILE CAPS

SW = SURFACE WATER SAMPLE POINT PILES/COLUMN

HYDRAULIC BARRIER PIEZOMETER SYSTEM

MANHOLE JUNCTION PROPOSED SHEET PILE WALL

- 1. UTILITIES PLAN AND PROFILES ARE SHOWN ON CIVIL DRAWINGS (SEE DRAWINGS DDP-C5.10 THROUGH C7.40).
- 2. PENETRATION INTO THE MULTIMEDIA CAP FOR INSTALLATION OF PILE FOUNDATIONS ARE SHOWN ON DRAWINGS DDP-F1.30 AND DDP-F1.31.
- 3. IN LOCALIZED AREAS, MODIFICATION OF HMS COMPONENTS PRESENTED BELOW WILL BE REQUIRED. SEE DRAWINGS DDP EN1.05, EN1.06, EN1.06.01, AND EN1.09 FOR DETAILS. A. VAULTS: V1, V2, V11, AND V12 REQUIRE ENTRY MANHOLE
- B. PIEZOMETERS: IP1, ISP1, OP1, OSP1, IP2, ISP2, OP2, OSP2, IP11, OP11, IP12 AND OP12 WILL REQUIRE ELEVATION ADJUSTMENT. (SEE DETAILS ON DDP EN1.06
- C. JUNCTION BOX: REPLACE AND ADJUST JB1, JB2 AND JB12 TO NEW ELEVATION. JB11 SHALL BE RELOCATED (SEE DETAILS ON DDP EN1.06 AND EN1.06.01).
- D. JUNCTION MANHOLE: MJ-1 WILL REQUIRE ELEVATION
- E. DRAINAGE SAMPLING POINTS: ABANDON EXISTING AND INSTALL NEW SSMP-4. INSTALL NEW SSMP-4A (SEE
- F. HMS CONDUITS BETWEEN MJ-1 AND V11 WILL BE SUPPORTED ON STEEL PIPE RACK HANGING FROM THE STRUCTURAL SLAB. MJ-1, V11, AND V12 WILL ALSO BE SUPPORTED FROM THE STRUCTURAL SLAB (SEE DRAWING EN 1.09). SEE FOUNDATION DRAWINGS FOR STRUCTURAL SUPPORT CONNECTION OF MJ-1, V11, AND V12 TO THE
- 4. EXISTING METHANE GAS VENT SHALL BE ABANDONED BY CUTTING THE VENT 6 INCHES ABOVE THE SYNTHETIC DRAINAGE COMPOSITE AND
- 5. THE NEW PROPOSED METHANE GAS VENT SHALL BE LOCATED AT A MINIMUM 5 FEET AWAY FROM THE EDGE OF CENTRAL PLAZA. THE VENT IS SITUATED HEREIN AT THE HIGHEST GEOMEMBRANE AREA LOCATED SOUTH OF THE PROPOSED STRUCTURE. SEE DETAIL DDP EN1.06.
- TEMPORARY MEANS (WIRE EXTENSION OR WIRELESS - SEE DRAWING DDP EN1.02). AFTER INSTALLATION OF THE SHEET PILE, THE CONNECTION SHALL BE RESTORED IN ACCORDANCE WITH DETAILS IN DRAWING DDP EN1.06 (ALSO SEE DRAWINGS DDP-F1.20, F1.21 AND
  - 7. THE DOUBLE WALLED FRAC TANKS SHALL BE STAGED ON STANDARD CONSTRUCTION MAT. (PRESTO GEO TERRA MATS OR SIMILAR) SEE
  - IMPACTED SOIL SHALL BE SEGREGATED FROM NON-IMPACTED SOIL. ALL IMPACTED/CONTAMINATED MATERIALS SHALL BE PLACED DIRECTLY FROM THE EXCAVATION INTO LINED ROLL-OFF CONTAINERS WITH ALUMINUM LIDS TO SEAL THE CONTAINERS. THE CONTAINERS SHALL BE TRANSPORTED OFF-SITE FOR DISPOSAL EVERY WORKDAY. IF THE LOADED CONTAINER CANNOT BE HAULED FOR DISPOSAL AT THE END OF THE CONSTRUCTION DAY, THOSE CONTAINERS SHALL BE
  - TEMPORALLY STORED IN THE CONTROLLED STORAGE AREA. 9. SEE FOUNDATION DRAWINGS FOR TEMPORARY ACCESS ROAD LAYOUT.
  - 10. PERSONNEL SHALL REMOVE ALL CONTAMINATED PPE AND CONTAINERIZE IN DRUMS BEFORE EXITING THE AREA. THE PERSONNEL DECONTAMINATION AREA SHALL BE SERVICED WITH FACE/HAND WASH, CONTAMINATED RPE DRUMS AND DRY/WET BOOT DECONTAMINATION.
    RELOCATE (PERSONNEL DECONTAMINATION TRAILER ADJACENT TO CRZ
  - 11. REFER TO C 5.10 FOR 30" STORM DRAIN EXFILTRATION PIPE (ALTERNATIVE). IF THE PIPE IS INSTALLED WITHIN AREA 2 THE AREA 2 COVER SHALL BE RESTORED TO MATCH EXISTING IN ACCORDANCE WITH
  - 13. THE TOWER CRANE BASE IS FOUNDED ON THE PILES. THE
  - CONTRACTOR SHALL ENSURE THAT THE TOWER CRANE BASE SHALL NOT PLACE UNDUE STRAIN ON THE HMS CONDUITS, AND THAT THE CRANE OPERATION WILL NOT RESTRICT ACCESS TO THE NEARBY HMS COMPONENTS, INCLUDING PIEZOMETERS, DURING CONSTRUCTION.
  - 1. THE CONTRACTOR SHALL PROTECT EXISTING STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES DETAILED ON PLANS FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT, AND OTHER HAZARDS CREATED BY PILE DRIVING AND EARTHWORK OPERATIONS. 2. THE CONTRACTOR SHALL MOVE AND REESTABLISH THE AIR RECEIVER INSIDE THE TS BUILDING TO MAINTAIN OPERATION OF THE COMPRESSED AIR SYSTEM DURING THE COURSE OF CONSTRUCTION (SEE DRAWING
  - COMPRESSED AIR SYSTEM IN CONFORMANCE WITH THE CONTINGENCY PLAN IF REQUIRED AS DETAILED ON DDP EN1.04. 3. THE CONTRACTOR SHALL RELOCATE ALL EQUIPMENT AND CONTROLS SYSTEMS ASSOCIATED WITH HMS SYSTEM OPERATION IN ACCORDANCE WITH THE DRAWINGS OR AS SPECIFIED BY THE FIELD ENGINEER AND AS SHOWN IN THE LEVEL LAND LEVEL IL CONTINGENCY CONTROL DETAKS (SEE DRAWINGS DDP EN1.02, EN1.03, EN1.04, EN1.07, AND
  - SUBPROJECT 3 HMS AND SUBPROJECT 6 1S AS-BUILT DRAWINGS SETS AND SPECIFICATIONS ARE INCORPORATED INTO THIS DESIGN IN THEIR ENTIRETY BY REFERENCE FOR PURPOSES OF MAINTAINING HMS AND TS SYSTEM OPERATIONS OR POST CONSTRUCTION HMS OR TS SYSTEM RESTORATIONS UNLESS OTHERWISE SPECIFIED ON THE PLANS
- 5. THE CONTRACTOR SHALL REPLACE ALL TRANSFER STATION AND HEAD MAINTENANCE SYSTEM COMPONENTS AS NECESSARY TO RESTORE THE HMS AND TS TO IN-KIND/PRE-CONSTRUCTION CONDITIONS AS PER THE SUBPROJECT 3 - HMS AND SUBPROJECT 6 - TS DRAWINGS SETS OR AS OTHERWISE SPECIFIED BY THE ENGINEER.

  6. THE CONTRACTOR SHALL COORDINATE WITH THE TS/HMS OPERATOR TO PROVIDE SCHEDULED ACCESS TO THE TS AND HMS SYSTEM AS
- COMPLIANCE. THE CONTRACTOR SHALL HALT CONSTRUCTION ACTIVITIES AS NECESSARY TO PROVIDE OPERATOR ACCESS.

  7. CONTRACTOR SHALL PRESSURE TEST WATER, AIR AND CONVEYANCE LINES UPON COMPLETION OF PILES TO ENSURE INTEGRITY OF EXISTING
- 8. INSPECT ALL MONITORING POINTS WITHIN 80 FT. OF PILE DRIVING ACTIVITY BEFORE DRIVING PILES. INSPECT AFTER ALL PILES WITHIN 80 FT. ARE DRIVEN TO CONFIRM PROPER PERFORMANCE.



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**EXELON BLDG &** PLAZA GARAGE

HARBOR POINT AREA 1 PHASE 1 DDP SUBMISSION 8/1/13

(REVISED 11/25/13)

revision date ADDED MATERIAL LAYDOWN

AREA, REVISED CALLOUT,

**UPDATED NOTES** 

11/22/2013 UPDATED NOTES

ENVIRONMENTAL REMEDIATION SYSTEM IMPROVEMENTS

checked by: project number:

**DDP EN1.01** 

sheet number

# A. PREPARATION AND OPERATION OF THE TRANSFER STATION AND HEAD MAINTENANCE SYSTEM DURING DEMOLITION AND CONSTRUCTION:

OPERATION OF THE TRANSFER STATION (TS) AND HEAD MAINTENANCE SYSTEM (HMS) DURING DEMOLITION AND CONSTRUCTION SHALL BE CONDUCTED BASED ON A TWO LEVEL CONTINGENCY PLAN (LEVEL 1 AND LEVEL 2). THE LEVEL 1 CONTINGENCY PLAN (CP) ELEMENTS ARE REQUIRED PRIOR TO THE START OF THE CONSTRUCTION AND AT ALL TIMES DURING CONSTRUCTION. LEVEL 2 CP ELEMENTS SHALL BE IMPLEMENTED ON AN AS NEEDED BASIS. ALL LEVEL 1 AND LEVEL 2 CP ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE FULL CP CONTROL DOCUMENT TO INCLUDE OBTAINING ALL SPECIFIED SPARE PARTS/EQUIPMENT IN ORDER TO LIMIT SYSTEM DOWNTIME TO ONE WORKDAY OR

PLEASE NOTE THAT THE EXISTING FIRE SUPPRESSION SYSTEM ONLY SERVES THE EXISTING TS OFFICE SPACE SLATED FOR DEMOLITION. HOWEVER, A WATER MAIN AND NATURAL GAS LINE IS ROUTED THROUGH THE ELECTRICAL/MECHANICAL ROOM AND POSES A SIGNIFICANT RISK TO THOSE SYSTEMS IF DAMAGED DURING CONSTRUCTION. THE CONTRACTOR SHALL SHUT OFF AND PROPERLY PREPARE ALL WATER AND GAS UTILITIES PRIOR TO CONSTRUCTION. ALL NATURAL GAS UNIT HEATERS IN THE TANK ROOM WILL BE REPLACED WITH ELECTRIC UNIT HEATERS AS SPECIFIED ON **DRAWING DDP-EN-1.08** IN ORDER TO ELIMINATE NATURAL GAS LINES TO THE TS.

UNDER THE LEVEL 1 CP, GROUNDWATER WILL BE ROUTED TO THE EXISTING TANKS. LEVEL 1 SHALL CONSIST OF PREPARING THE EXISTING SYSTEMS AND MAKING MINOR MODIFICATIONS TO THE EXISTING SYSTEMS IN ANTICIPATION OF DUST AND VIBRATION THAT MAY CAUSE EQUIPMENT, ELECTRICAL AND CONTROL SYSTEM FAILURE. GROUNDWATER FROM THE TANKS SHALL BE TRANSFERRED TO THE TEMPORARY LOADING AREA USING THE EXISTING 3" KAMLOCK CONNECTION LOCATED ON THE WESTERN WALL OF THE TANK ROOM.

UNDER THE LEVEL 2 CP, THE HMS CONTROLS WILL BE ISOLATED AND ALL IMPACTED GROUNDWATER DIVERTED FROM VAULT 1 TO A TEMPORARY TRANSFER STATION (TTS) IN THE EVENT THE EXISTING TS WOULD BECOME INOPERABLE. HOWEVER, ALL THE CONNECTION AND MODIFICATION FOR LEVEL 2 OPERATION WILL BE MADE UNDER THE LEVEL 1 CP.

SEQUENCING AND MODIFICATION REQUIRED DURING EACH LEVEL ARE PROVIDED

### a. LEVEL 1 OPERATION:

FOLLOWING STEPS WILL BE PERFORMED DURING LEVEL 1 OPERATION:

- THE EXISTING TS, PROGRAMMABLE LOGIC CONTROLLER (PLC)
   AND REMOTE INTELLIGENT CONTROL (RIC OR "NODE") SHALL
   BE KEPT IN-PLACE WITHOUT MODIFICATION.
- 2. BACKUP THE EXISTING PLC PROGRAMMING IN THE TS AND HMS SYSTEMS. THE EXISTING PLC CONSISTS OF SIEMENS TYPE SIMATIC-200 IN TS AND THE RICs IN HMS VAULTS. ALL COMPONENTS FOR THESE SYSTEMS ARE AVAILABLE AND REPLACEABLE. THE FIELD ENGINEER SHALL BACK-UP THE EXISTING PROGRAMS IN THE EVENT THAT ANY PLC COMPONENT IS DAMAGED AND NEEDS TO BE REPLACED. THE FIELD ENGINEER SHALL ALSO EMPLOY A HARD-DRIVE IMAGING STRATEGY PERIODICALLY DURING CONSTRUCTION TO ENSURE THE OPERATOR TERMINAL MAINTAINS DATA-INTEGRITY THROUGHOUT THE WORK SCHEDULE. THIS MEASURE WILL AVOID THE COSTLY AND TIME INTENSIVE PROCESS OF REPROGRAMMING AND CONFIGURING OF THE WONDERWARE TERMINAL IN THE EVENT THAT THE HARD DRIVE WAS TO BECOME CORRUPTED.
- RELOCATE THE EXISTING WONDERWARE MASTER SUPERVISORY SYSTEM/ HUMAN-MACHINE INTERFACE MSS/HML COMPUTER SYSTEM TO A FIELD OFFICE (BAW-1 SHALL BE RELOCATED AND SET UP FIRST TO VERIFY WIRELESS OPERATION. THE BACKUP CONTROL COMPUTER BAW-2 SHALL THEN BE RELOCATED WITHIN THE ELECTRICAL/MECHANICAL (ROOM TO BE PLACED UNDER POSITIVE PRESSURE FOR DUST PROTECTION AS DETAILED BELOW) AND PLACED IN A HARDENED CONSOLE (SEE FULL CP), THE CONTRACTOR SHALL PROVIDE POWER, PORTABLE AIR CONDITIONING UNIT(S), HARD WIRING OR ANY OTHER APPURTENANCES NECESSARY TO RELOCATE BAW-2 WITHIN THE REMAINING TS. THIS SYSTEM CONFIGURATION IS SHOWN AS SCENARIO 1 ON **DRAWING** DDP-EN1.03 AND INVOLVES THE USE OF A WIRELESS ETHERNET NETWORK SWITCH (ENS) AT THE EXISTING 8 PORT HARD-LINE ENS. A SECOND WIRELESS ENS SHALL BE PLACED IN A TEMPORARY FIELD OFFICE IN ORDER TO CONNECT THE FIELD HMI TO THE EXISTING CONTROLS SYSTEM.
- ALL WIRELESS NETWORKING EQUIPMENT/METHODS DETAILED IN THIS CONTINGENCY PLAN SHALL BE TESTED AND SECURED BY THE CONTRACTOR. THE WIRELESS NETWORK SHALL BE SECURED USING THE FOLLOWING: HIDDEN SSID, 256 BIT ASE-2 ENCRYPTION AND STRONG PASSWORD(S) (UTILIZING MIXED CASE, NUMERIC AND ASC II SYMBOLS). THE HMI RELOCATION WILL ALLOW THE OPERATOR TO BE SAFELY OUT OF THE CONTROL BUILDING DURING CONSTRUCTION, AND ALLOWS 24/7 MONITORING OF THE PROCESS IN CASE OF COMPONENT FAILURE OR WIRE BREAKAGE. THE FIELD ENGINEER SHALL REFERENCE THE WONDERWARE HMI TO TROUBLESHOOT AFFECTED INSTRUMENTATION AND CONTROLS WITHOUT HAVING TO STOP WORK TO ENTER THE CONSTRUCTION ZONE OR CONTROL ROOM THE CONTRACTOR SHALL HALT WORK AS NECESSARY IN THE EVENT THE TS OPERATOR NEEDS TO ENTER THE EXISTING TS OR OTHER WORK ZONES.
- 4. PROVIDE BACKUP POWER SUPPLY. THE FIELD ENGINEER SHALL INSTALL AN AMERICAN POWER CONVERSION (APC) 3000VA AND SERIAL 120 V SMART UNINTERRUPTIBLE POWER SUPPLY (UPS) (SEE PARTS SOURCING FOR REQUIREMENTS) CAPABLE OF HANDLING THE SENSITIVE PLC IN THE TEMPORARY OFFICE, AND IN THE TS POWER SUPPLY AND INPUT/OUTPUT COMPONENTS FOR OVER FOUR (4) HOURS. IN CONJUNCTION WITH AN ON-SITE GENERATOR, THESE SHOULD PROVIDE SMOOTH POWER SUPPORT DURING THE CONSTRUCTION. THE WONDERWARE HMI COMPUTER AND MONITOR AND WIRELESS LINK(S) SHALL ALSO BE PLUGGED INTO A UPS SYSTEM FOR SMOOTH POWER DELIVERY.
- 5. PROVIDE DUST CONTROL IN THE ELECTRICAL/MECHANICAL ROOM BY PLACING THE ELECTRICAL/MECHANICAL ROOM UNDER A MINIMUM POSITIVE PRESSURE OF 0.1 INCH W.C. DURING CONSTRUCTION. PLACING THE ROOM UNDER POSITIVE PRESSURE SHALL REQUIRE ISOLATING THE SECTIONS OF THE HVAC DUCTWORK SPECIFIC TO THE ELECTRICAL/MECHANICAL ROOM (SEE DRAWING DDP EN1.08) AND FEEDING AIR INTO THE ROOM WITH AN INTAKE FAN EQUIPPED WITH A PARTICULATE FILTER. FAN EF-203 (SEE SUBPROJECT 6 DRAWINGS TM-2 AND TM-7) SHALL BE TAKEN OFFLINE. OTHER MATERIALS AND EQUIPMENT SHALL BE PROTECTED USING TARPS OR PLASTIC.
- 6. RELOCATE AIR RECEIVER WHICH IS CURRENTLY LOCATED IN THE CORNER OF THE EXISTING LOADING DOCK. ANY CONTROLS ASSOCIATED WITH THE AIR RECEIVER SHALL ALSO HAVE TO BE RE-LOCATED. SEE **DRAWING DDP EN1.07** FOR RELOCATION AND ASSOCIATED PIPING.
- 7. MAKE MODIFICATION TO EXISTING COMPRESSED AIR SYSTEM. INSTALL QUICK CONNECT AS DETAILED ON DRAWING **DDP EN1.03** TO ACCEPT COMPRESSED AIR FROM A TEMPORARY OR PORTABLE AIR COMPRESSOR.
- 8. MAKE MODIFICATION AND NEW CONNECTION IN VAULT V1 TO DIVERT ALL FLOW FROM V1 DURING LEVEL 2 OPERATION AS DETAILED ON **DRAWING DDP EN1.03**.
- 9. DURING LOADING OPERATION, GROUNDWATER FROM THE TANKS SHALL BE TRANSFERRED TO THE TEMPORARY LOADING AREA (DRAWING DDP EN1.03) USING THE EXISTING 3 "KAMLOCK CONNECTION LOCATED ON THE WESTERN WALL OF THE TANK ROOM. THE TEMPORARY LOADING DOCK SHALL BE PORTABLE CONSISTING OF PIG COLLAPSE-A-TRAINER CONTAINMENT SYSTEM THAT SHALL BE LAID ONLY ON AN AS NEEDED BASIS. AFTER LOADING IS COMPLETE, THE CONTAINMENT SYSTEM SHALL BE FOLDED AND PIPING

DISCONNECTED AND STORED FOR FUTURE USE.

10. THE TANKS SHALL BE EMPTIED PRIOR TO DEMOLITION AND DURING THE PILE/PILE CAPS INSTALLATION IN THE VICINITY OF THE TANK ROOM, USING THE EXISTING 3" KAMLOCK CONNECTION. THE GROUNDWATER SHALL BE ROUTED TO A DOUBLE WALLED WATER STORAGE TANK. (SEE DRAWING DDP EN1.03)

11. PERFORM DAILY INSPECTIONS OF TS AND HMS SYSTEMS. IT IS ANTICIPATED THAT DOWNTIME WILL BE SCHEDULED WITH THE CONTRACTOR TO ALLOW THE OPERATOR TO ACCESS THE TS AND HMS VAULTS TO MAINTAIN AND INSPECT THE EXISTING SYSTEM. THE OPERATOR SHALL CHECK ALARMS, GENERAL SYSTEM CONDITIONS AND INSPECT LINES FOR LEAKS AND GENERAL SYSTEM ISSUES. THE PLC GASKET SEAL WILL BE INSPECTED ON A REGULAR SCHEDULE (EVERY OTHER WEEK) IN BETWEEN CONSTRUCTION WORK. IF NECESSARY CONSTRUCTION WORK IN PROXIMITY TO THE EXISTING TS WILL BE HALTED IN ORDER TO PROVIDE THE OPERATOR SAFE ACCESS TO THE EXISTING TS. SOME OF THE JUNCTION BOXES DO NOT HAVE SEALS AS INSTALLED, SO THE FIELD ENGINEER SHALL MONITOR THE DUST AND MOISTURE IN THE CONTROL ROOM PERIODICALLY (DURING STOP-WORK ROUNDS).

LEVEL 2 OPERATION:

FOLLOWING STEPS WILL BE PERFORMED IN ADDITION TO LEVEL 1 OPERATION AS NECESSARY:

\_\_\_\_\_

1. PROVIDE WIRELESS TELEMETRY. THE HMS CONTROLS NETWORK CONSISTS OF DAISY-CHAINED LAN LINES CONNECTED BY ENSS IN EACH VAULT. THE ENS IN EACH VAULT BOOST THE CONTROLS SIGNAL BETWEEN EACH VAULT AND CONTAINS OPEN ETHERNET PORTS FOR CONNECTING ADDITIONAL WIRELESS ENSS. IN THE EVENT THAT A SIGNAL WIRE IS SEVERED BETWEEN VAULTS, WIRELESS ENSS SHALL BE INSTALLED AT EACH EFFECTED HMS VAULT IN ORDER TO MAINTAIN THE DATA SIGNAL AS REPRESENTED BY SCENARIO 2 ON **DRAWING DDP-EN1.04**.

- AS PART OF THE CONTROLS SYSTEM PREPARATION THE CONTRACTOR SHALL SIMULATE A SEVERED COMMUNICATION LINE BETWEEN TWO HMS VAULTS UNDER CONTROLS SCENARIO II AS DETAILED ON **DRAWING DDP.EN.1.04**. TO PERFORM THIS TEST THE CONTRACTOR SHALL TEMPORARILY DISCONNECT THE RIC HARDLINES BETWEEN THE SELECTED HMS VAULTS AND INSTALL THE WIRELESS ENS. THE CONTRACTOR SHALL DOCUMENT THE TEST WAS PERFORMED AND SUCCESSFUL CONNECTION WAS MADE. THE CONTRACTOR SHALL REESTABLISH THE HARDLINE CONNECTION AFTER THE WIRELESS CONNECTION TEST IS COMPLETE.
- IT IS ANTICIPATED THAT ESTABLISHING A WIRELESS CONNECTION WILL TAKE LESS THAN ONE WORKDAY. THE CONTRACTOR SHALL REPAIR HARD LINE CONNECTIONS WHENEVER POSSIBLE. A WIRELESS CONNECTION WILL ONLY BE ESTABLISHED IF THE SEVERED HARDLINE CANNOT BE REPAIRED WITHIN ONE WORKDAY. ANY BROKEN NETWORK LINK(S) SHALL BE REPAIRED BEFORE BACK-FILLING OR BEFORE OTHER ABOVE-GRADE CONSTRUCTION CEASES. THE FIELD REPRESENTATIVE AND CONTROL SUPPORT PERSONNEL SHALL FIELD TEST WIRELESS OPERATIONS WITH THE TS/HMS OPERATOR AFTER THE HMI IS RELOCATED BY SIMULATING A SEVERED LINE IN CONFORMANCE WITH THE FULL CP.
- 2. ISOLATE THE ENTIRE HMS CONTROL SYSTEM: THE INDIVIDUAL WELL VAULTS ARE LINKED TOGETHER WITH AN ETHERNET NETWORK. WIRELESS TELEMETRY CAN BE QUICKLY ESTABLISHED TO RE-LINK DAMAGED RIC NETWORK NODE TO THE HMI. AS REPRESENTED BY THE SCENARIO 3 CONTROL DETAIL ON **DRAWING DDP-EN1.04** AN ENS WILL BE INSTALLED WITHIN V1 AND V2 IN ORDER TO ESTABLISH A DATA LINK WITH THE WIRELESS FIELD HMI
- 3. DIVERT IMPACTED GROUNDWATER: IN THE EVENT THAT THE TANKS ARE DAMAGED OR THE IMPACTED GROUNDWATER NEEDS TO BE ROUTED AWAY FROM THE TS, THE PIPING IN VAULT V1 HAS BEEN MODIFIED IN LEVEL 1 TO DIVERT ALL FLOW FROM V1 TO A DOUBLE-WALL WATER STORAGE TANKS AS DETAILED ON **DRAWING DDP EN1.04**. THE PIPING OUTSIDE OF VAULT 1 SHALL BE FLEX PIPE WITH SECONDARY CONTAINMENT. THE PIPE SHALL BE HEAT TRACED DURING COLDER CLIMATES AS NECESSARY. THE PROPER TANKER TURNING RADIUS WILL BE PROVIDED IN ORDER TO MAINTAIN A TEMPORARY LOADING DOCK WITH SECONDARY CONTAINMENT AT ALL TIMES. LINE DRAINAGE SHALL BE ACCOMPLISHED BY ROUTING THE PIPE VOLUME TO THE VAULT 1
- 4. INSTALL WIRELESS I/O AND INSTRUMENTATION: TEMPORARY
  WIRELESS I/O (RECEIVER/TRANSMITTER/TRANSCEIVER) SHALL BE
  INSTALLED AS NECESSARY TO MAINTAIN COMMUNICATIONS WITH
  INDIVIDUAL PIECES OF EQUIPMENT (FOR DATA LOGGING OR
  CONTROLS). THIS INSTRUMENTATION SHALL BE PURCHASED
  PRIOR TO CONSTRUCTION IN CONFORMANCE WITH THE FULL
  CONTINGENCY PLAN.
- THE WIRELESS TRANSCEIVERS WILL BE NECESSARY IF AN INDIVIDUAL DATA/CONTROL LINE IS SEVERED (E.G. THE TRANSDUCER LINE AT A PIEZOMETER IS SEVERED) OR A TEMPORARY SYSTEM IS PLACED INTO OPERATION (E.G. A TEMPORARY WIRELESS PRESSURE TRANSMITTER RELAYING COMPRESSED AIR SYSTEM PRESSURE TO THE HMI).
- AS PART OF THE CONTROLS SYSTEM PREPARATION THE
  CONTRACTOR SHALL SIMULATE A SEVERED COMMUNICATION LINE
  BETWEEN A RIC AND A PIEZOMETER REPRESENTING CONTROLS
  SCENARIO III ON **DRAWING DDP.EN.1.04** PRIOR TO CONSTRUCTION.
  THIS DOES NOT NEED TO BE PERFORMED ON AN ACTUAL
  PIEZOMETER IN THE FIELD. THE CONTRACTOR MAY PERFORM AND
  DOCUMENT A SUCCESSFUL WIRELESS CONNECTION BETWEEN A
  SIMULATED RIC AND PIEZOMETER USING A REMOTE I/O
  CONFIGURATION IN A REMOTE TEST LAB. THE CONFIGURATION,
  EQUIPMENT, SETUP AND TEST RESULT SHALL BE DOCUMENTED
  FOR FIELD IMPLEMENTATION IF PERFORMED IN A TEST LAB.
- IN THE CASE OF A SEVERED SIGNAL LINE, THE CONTRACTOR SHALL REPAIR THE SEVERED LINE AS SOON AS POSSIBLE TO MINIMIZE THE USE OF BATTERY AND MAXIMIZE THE AVAILABILITY OF WIRELESS I/OS FOR OTHER SYSTEM REPAIRS. THE WIRELESS I/O DEVICES ACT AS A "REPEATER" OF DISCRETE OR ANALOG (4-20mA) SIGNALS. BOTH TRANSMITTER AND RECEIVER NEED TO BE DC POWERED AND FITTED WITH APPROPRIATE ANTENNAS FOR COMMUNICATIONS.
- 5. PROVIDE A TEMPORARY TRAILER MOUNTED COMPRESSED AIR SYSTEM: IN THE EVENT THAT THE EXISTING COMPRESSOR NEEDS TO BE TAKEN OUT OF SERVICE AND A TEMPORARY PORTABLE COMPRESSOR CANNOT BE PLACED INSIDE THE TS, THEN A COMPLETE TRAILER MOUNTED COMPRESSED AIR PACKAGE SYSTEM SHALL BE PLACED ON SITE AND CONNECTED TO THE COMPRESSED AIR HEADER LOCATED IN V1 AS DETAILED ON DRAWING DDP EN1.04.

# B. POST CONSTRUCTION AND RESTORATION OF THE TRANSFER STATION:

- 1. AIR, WATER, TANK VENTS AND OTHER PIPING SHALL BE REROUTED FROM THE TANK AREA TO THE NEW TRANSFER STATION LOADING DOCK AS SHOWN ON **DRAWING DDP EN01.07**.
- 2. THE CONNECTION MADE IN VAULT 1 TO TEMPORARILY REROUTE THE IMPACTED GROUNDWATER FROM VAULT 1 SHALL BE DISCONNECTED AND BLIND FLANGED AT THE TEE CONNECTION WITH THE ORIGINAL SYSTEM AS SHOWN ON DRAWING DDP EN1.04
- 3. THE CONTROL SYSTEM SHALL BE REWIRED TO ITS ORIGINAL STATE TO OPERATE THE HMS AND TS AS ORIGINALLY DESIGNED.
- 4. THE HVAC SYSTEM SHALL BE MODIFIED AS SHOWN ON **DRAWING DDP EN1.08**

### C. PARTS SOURCING:

THE FOLLOWING ITEMS SHALL BE SOURCED PRIOR TO CONSTRUCTION TO SUPPORT THE TS AND HMS DURING LEVEL AND LEVEL 2 OPERATIONS:

- 1. UNINTERRUPTIBLE POWER SUPPLY (3000KVA OR BETTER) FOR PLC.
- UNINTERRUPTIBLE POWER SUPPLY (3000KVA OR BETTER)
- 3. TWO (2) WIRELESS G ROUTERS FOR PLC AND HMI.

FOR HMI AND COMPUTER.

- 4. TWO (2) HIGH-GAIN ANTENNAS FOR WIRELESS ROUTERS.
- 5. APPROPRIATE CABLING (POWER, SIGNAL, DATA) TO SUPPORT REMOTE HMI.
- 6. ETHERNET-TO-SERIAL ADAPTER TO CONNECT WIRELESS HMI TO PLC

THE FOLLOWING ITEMS SHALL BE SOURCED FROM THE LISTED VENDORS (SEE CONTINGENCY PLAN, SECTION 6.0) PRIOR TO CONSTRUCTION TO SERVE AS AN IMMEDIATE BACK-UP:

- ONE MASTER INPUT/OUTPUT TELEMETRY RADIO AND ANTENNA.
- 2. ONE SLAVE INPUT/OUTPUT TELEMETRY RADIO AND ANTENNA.
- 3. SIEMENS SIMATIC PLC PROGRAMMING CABLE.
- 4. SIEMENS SIMATIC PLC PROGRAMMING SOFTWARE.
- 5. STOCK OF SIGNAL CABLE TO CONNECT INSTRUMENT(S) TO WIRELESS TELEMETRY.
- 6. BACKUP HARD DRIVE TO IMAGE WONDERWARE HMI COMPUTER SYSTEM.
- 7. PROVIDE HARDENED CONSOLE FOR BAW-2 WITHIN TS.

THE FOLLOWING PARTS SHALL BE SOURCED (SEE CONTINGENCY PLAN, SECTION 6.0 FOR LISTED VENDORS) DURING CONSTRUCTION ON AN AS-NEEDED BASIS:

- 1. SIEMENS SIMATIC I/O CARD(S).
- 2. FUSES.
- 3. TERMINAL BLOCKS.
- 4. WIRE AND CABLE.
- 5. INSTRUMENT(S) (TO REPLACE DAMAGED PIEZOMETER FOR INSTANCE).



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# EXELON BLDG & PLAZA GARAGE

HARBOR POINT
AREA 1 PHASE 1
DDP SUBMISSION
8/1/13
(REVISED 11/12/13)

key plan

issued date description

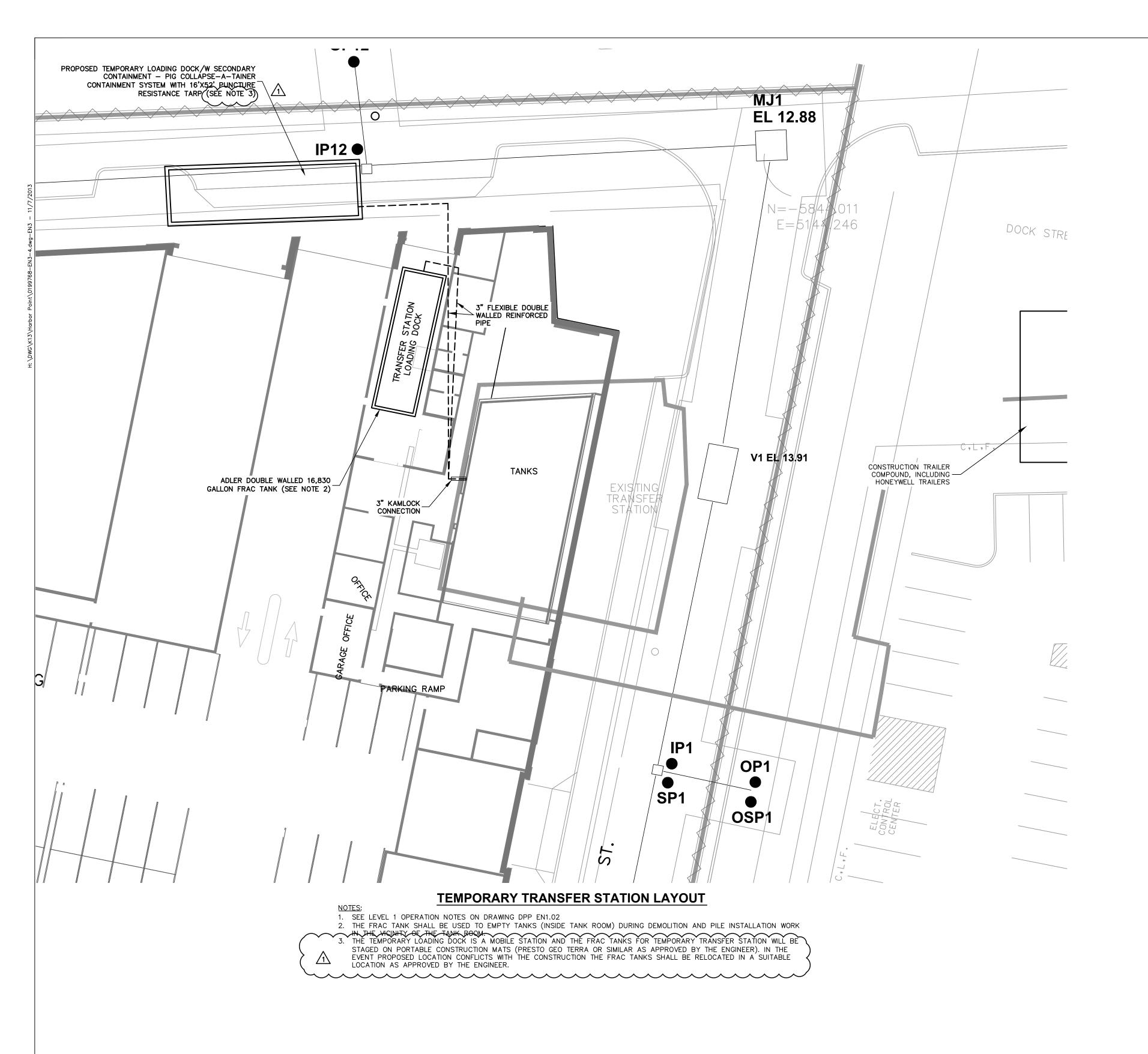
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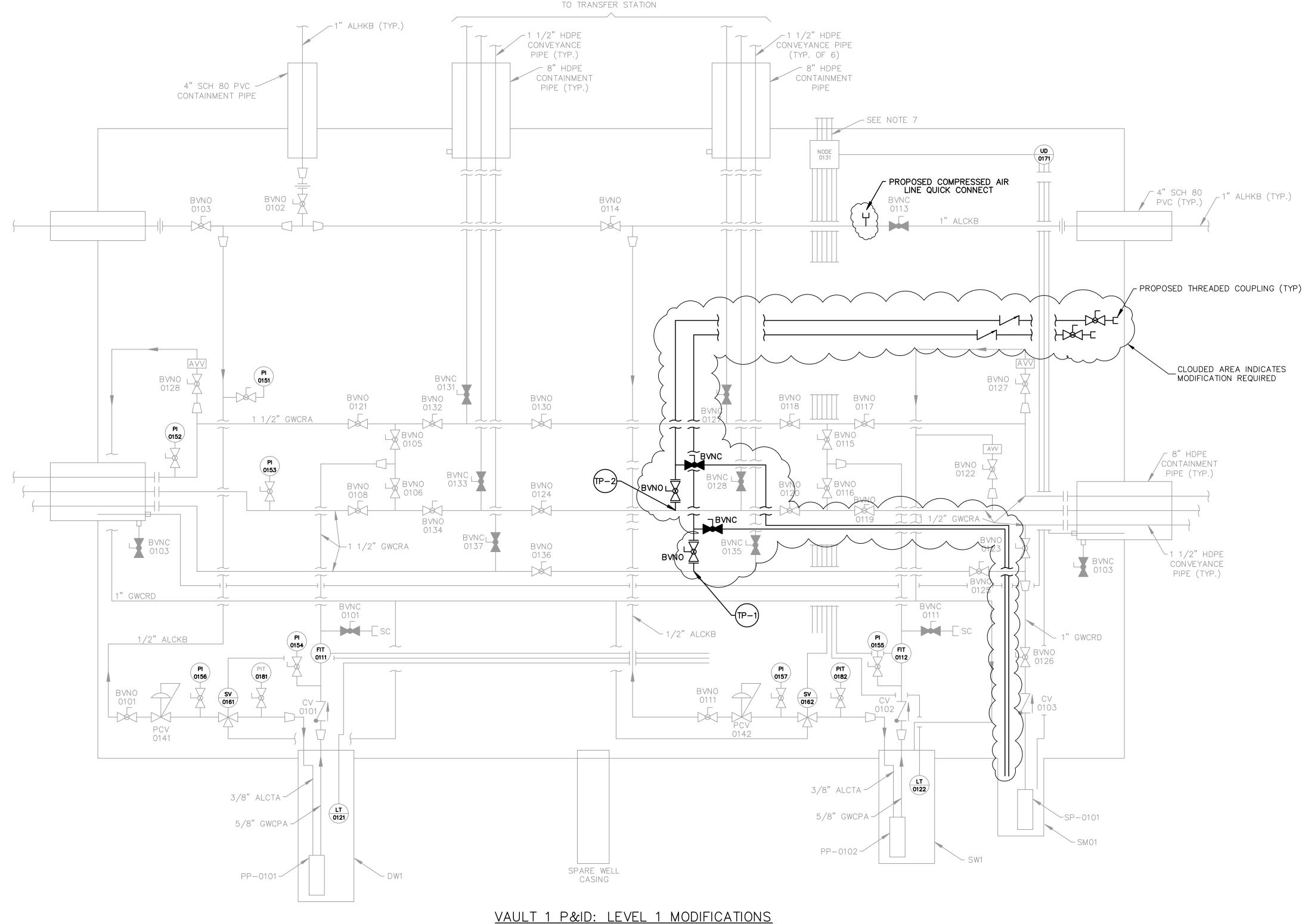
11/11/2013 UPDATED NOTES

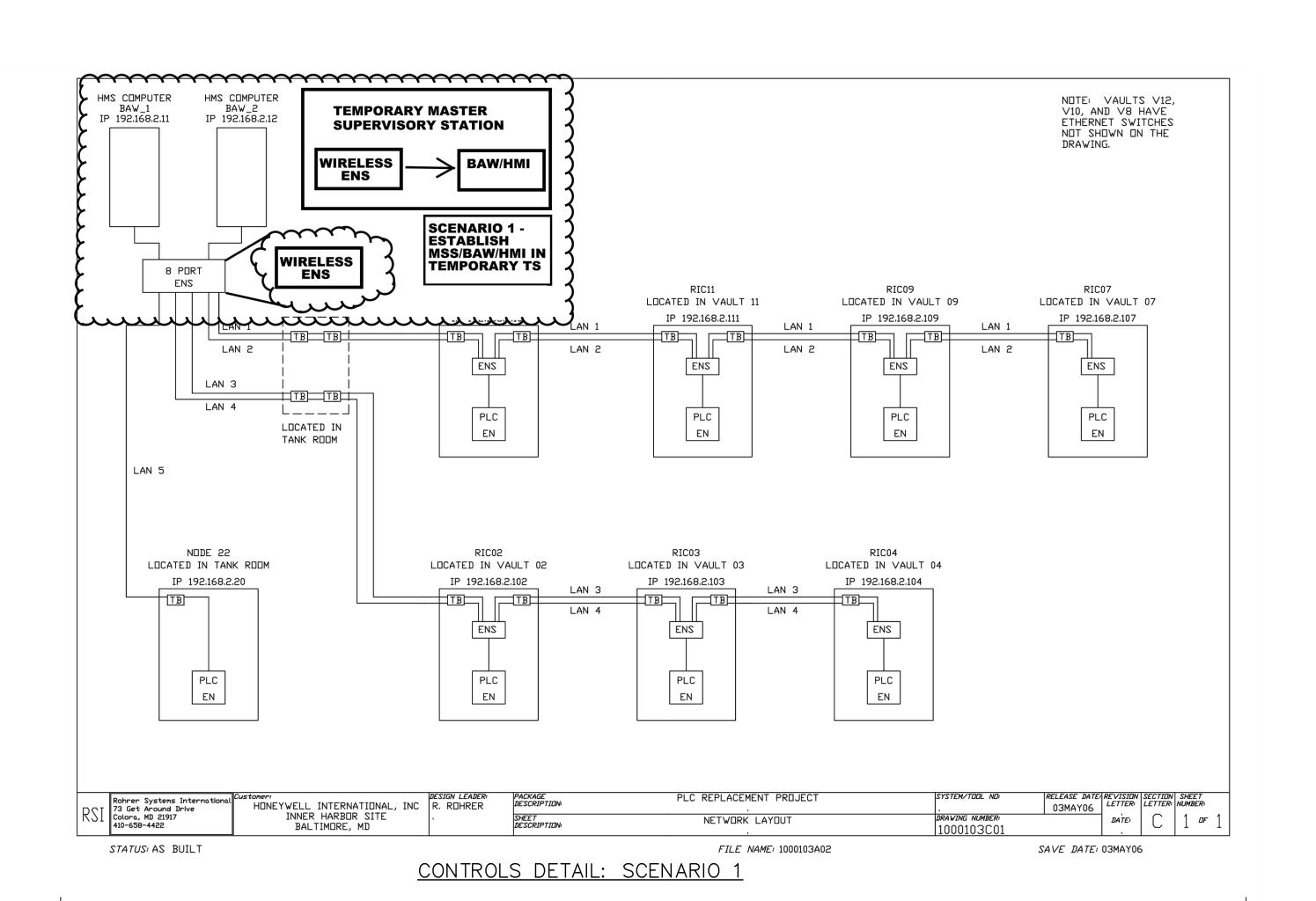
# TRANSFER STATION OPERATION AND SEQUENCING PLAN

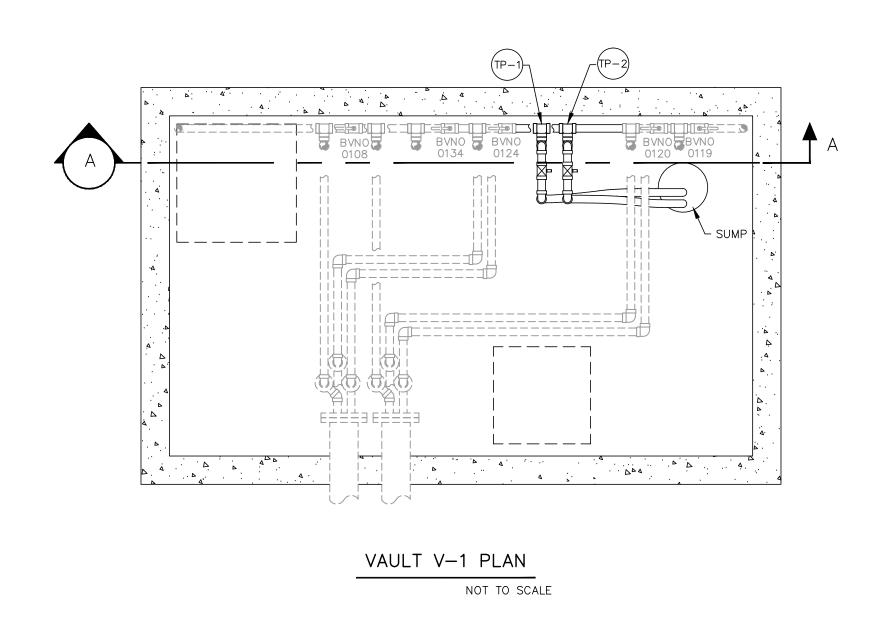
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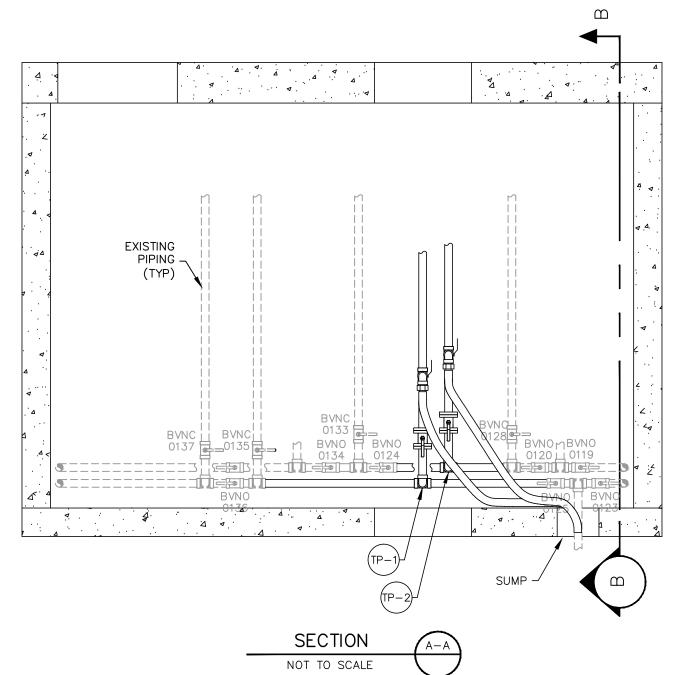
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DETAIL No. 1 VAULT V-1 AND DIVERSION PIPING PLAN SCALE: NONE

PARTS LIST FOR DETAIL 1

- 1. 1 1/2" SCH. 80 PVC TEE AS MFD BY SPEARS OR ENGINEER APPROVED EQUAL.
- 2. 1 ½" SCH. 80 PVC SOCKET X FLANGE WITH EPDM GASKETS AND BOLT HARDWARE AS MFD BY SPEARS OR ENGINEER APPROVED EQUAL. 3. 1 1/2" PVC FLANGED TRUE UNION 2000 BALL VALVE AS MFD BY SPEARS OR ENGINEER APPROVED
- 4. 1 1/2" SCH. 80 PVC TEE AS MFD BY SPEARS OR ENGINEER APPROVED EQUAL.
- 5. 1 1/2" SOCKET TRUE UNION 2000 BALL VALVE AS MFD BY SPEARS OR ENGINEER APPROVED EQUAL. 6. 1 1/2" DRAINAGE HOSE OR ENGINEER APPROVED EQUAL.

8. 1 ½" SOCKET swing check valve AS MFD BY SPEARS OR ENGINEER APPROVED EQUAL.

- 7. 1 1/2" SCH. 80 PVC SOCKET 90(TYP.) AS MFD BY SPEARS OR ENGINEER APPROVED EQUAL.
- 9. 1 ½" SOCKET TRUE UNION 2000 BALL VALVE AS MFD BY SPEARS OR ENGINEER APPROVED EQUAL. 10. 1 ½" SCHEDULE 80 PVC F-NPT THREADED COUPLING WITH STEEL REINFORCED THREADS AS MFD BY SPEARS OR ENGINEER APPROVED EQUAL.
- NOTES FOR DETAIL 1
- 1. SOCKET AND FLANGED PVC PIPE CONNECTIONS SHALL HAVE A MIN PRESSURE RATING OF 120 PSI. PIPE SHALL BE PRESSURE TESTED IN CONFORMANCE WITH DIVISION 3, SECTION 02704 OF THE EXISTING BALTIMORE SITE REMEDIATION SUBPROJECT NO. 3 HMS SPECIFICATIONS DATED 03/01/96 OR AS SPECIFIED BY THE PROJECT ENGINEER.
- 2. CONTRACTOR TO DRAIN DIVERSION PIPES/HOSES TO SUMP IN V1 AS NECESSARY TO MINIMIZE HANDLING OF IMPACTED GROUNDWATER. 3. THE TRANSITION TO THE FLEXWORKS DOUBLE WALL PRIMARY PIPE OUTLET WILL BE POSITIONED OVER THE 24" X 24" VAULT MANWAY. THE PRIMARY ACCESS TO THE VAULT'S INTERIOR IS FROM THE 30" X 36" MANWAY WHICH SHALL NOT BE BLOCKED FROM THE PROPOSED PIPING

# SCOPE OF WORK

- THE SCOPE OR WORK PRESENTED BELOW SHALL BE IMPLEMENTED IN CONJUNCTION WITH TRANSFER STATION OPERATION AND SEQUENCING PLAN (DRAWING DDP EN1.02) AND TRANSFER STATION AND CONTINGENCY MODIFICATIONS (DRAWING DDP EN1.08)
- 1. INSTALL LEVEL 1 CONTINGENCY DIVERSION PIPING AND TIE IN TO
- 2. RELOCATE BAW/HMI FROM TRANSFER STATION CONTROL ROOM TO
- TEMPORARY TRANSFER STATION USING WIRELESS ENS AS DETAILED IN CONTROL DETAILS: SCENARIO 1 ON DRAWING DDP EN1.03.
- 3. PROVIDE TEMPORARY LOADING DOCK AREA AND A FRAC TANK.
- 4. PROVIDE DOUBLE WALLED FLEXIBLE PIPING FROM TRANSFER STATION TO TEMPORARY LOADING DOCK AND FRAC TANK AREA.

# NOTES:

- 1. THE CONTINGENCY PLAN IS DIVIDED INTO TWO LEVELS: THE LEVEL 1 CONTINGENCY PLAN IS DESIGNED TO PREPARE THE EXISTING TS TO OPERATE DURING CONSTRUCTION; THE LEVEL II CONTINGENCY PLAN IS IN PLACE IN THE EVENT THAT GROUNDWATER FLOW NEEDS TO BE DIVERTED FROM THE HMS TO TEMPORARY TS. THE LEVEL I CONTINGENCY PLAN IS MANDATORY. THE LEVEL II CONTINGENCY PLAN CAN BE IMPLEMENTED ON AN AS NEEDED BASIS. PLEASE SEE THE FULL CONTINGENCY PLAN TEXT FOR FULL DETAILS OF THE SCOPE OF BOTH THE LEVEL I AND
- LEVEL II CONTINGENCY PLANS. 2. UNDER THE LEVEL I CONTINGENCY PLAN, PLANT CONTROLS WOULD BE DIVERTED TO A TEMPORARY MASTER SUPERVISORY STATION (SEE CONTROLS SCENARIO 1 ON DRAWING DDP EN1.03) LOCATED IN A TEMPORARY CONSTRUCTION TRAILER DETAILED IN THE TEMPORARY LAYDOWN DRAWING ON DRAWING DDP EN1.03 AND DDP EN1.04.
- 3. TEMPORARY WIRELESS SYSTEMS NECESSARY TO RESTORE THE DATA NETWORK BETWEEN VAULTS/VAULT AND TS ARE DETAILED IN CONTROLS DETAILS: SCENARIO 2 AND SCENARIO 3 UNDER THE LEVEL II CONTINGENCY PLAN SHOWN ON DRAWING DDP EN1.04. THIS SCENARIO CAN BE INTEGRATED WITH SCENARIO 1 OR SCENARIO 2 AS NECESSARY.

4. THE OPERATOR SHALL MAINTAIN REPLACEMENT EQUIPMENT SUCH AS A

- RIC, WIRELESS TRANSCEIVER, ETC. IN CONFORMANCE WITH THE CONTINGENCY PLAN THROUGHOUT CONSTRUCTION. 5. THE LEVEL I CONTINGENCY PLAN ON DRAWING DDP EN1.03 DETAILS THE INSTALLATION OF AN AIR LINE QUICK CONNECT IN ORDER TO INSTALL A
- TEMPORARY COMPRESSOR IN THE EVENT THE EXISTING COMPRESSOR 6. THE LEVEL I CONTINGENCY PLAN ALSO DETAILS THE INSTALLATION OF BAFFLES WITHIN THE EXISTING AIR DUCTING TO ISOLATE AND FILTER THE

AIR INTAKE TO THE ELECTRICAL MECHANICAL ROOM AS SHOWN ON

DRAWING DDP EN1.08. 7. TS AND HMS OPERATIONS WILL BE RETURNED TO PRE CONSTRUCTION CONDITIONS EXCEPT FOR AS SPECIFIED ON THE DRAWINGS.



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EXELON BLDG & PLAZA GARAGE

HARBOR POINT AREA 1 PHASE 1 DDP SUBMISSION 8/1/13 (REVISED 11/12/13)

key plan

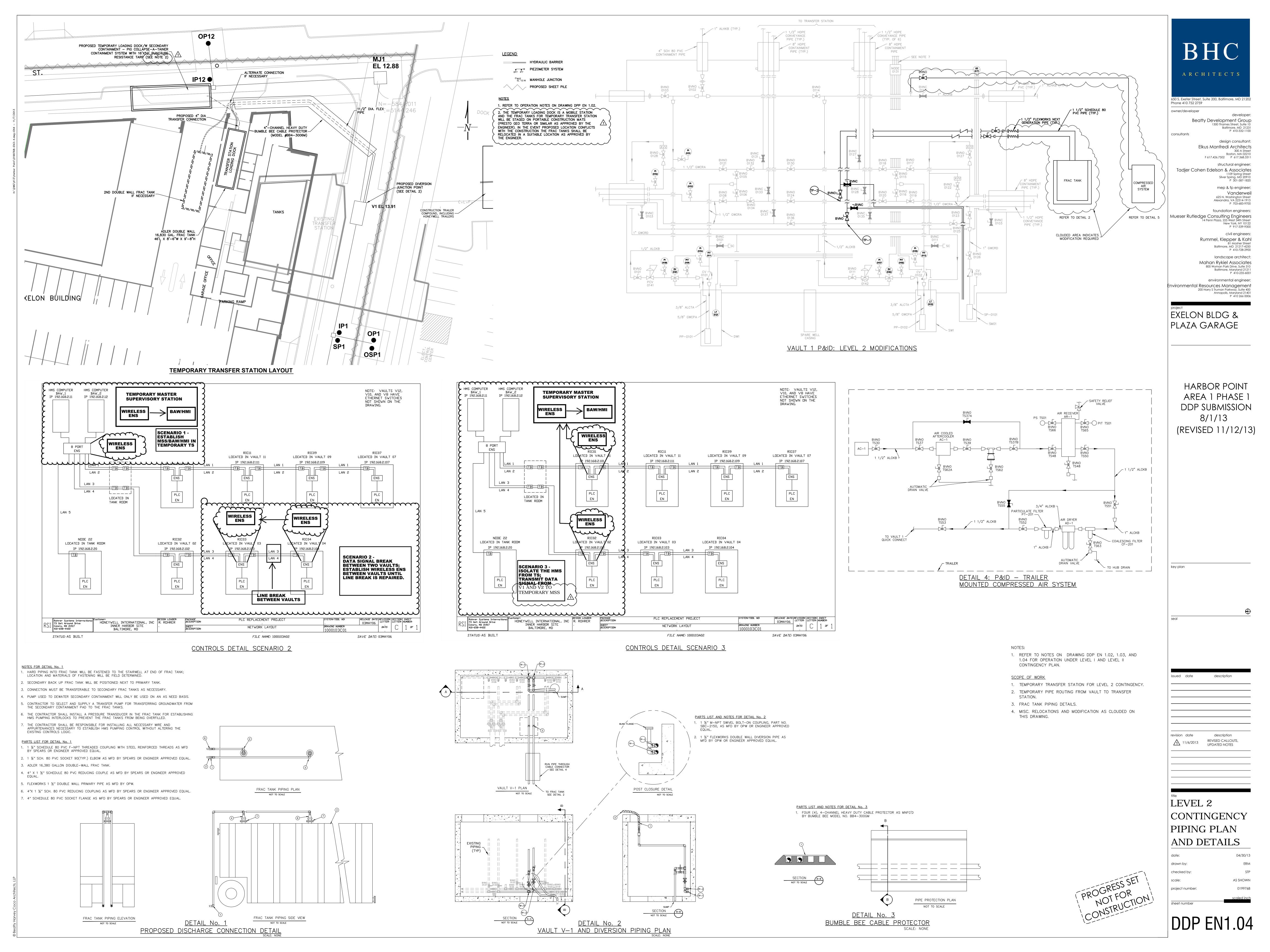
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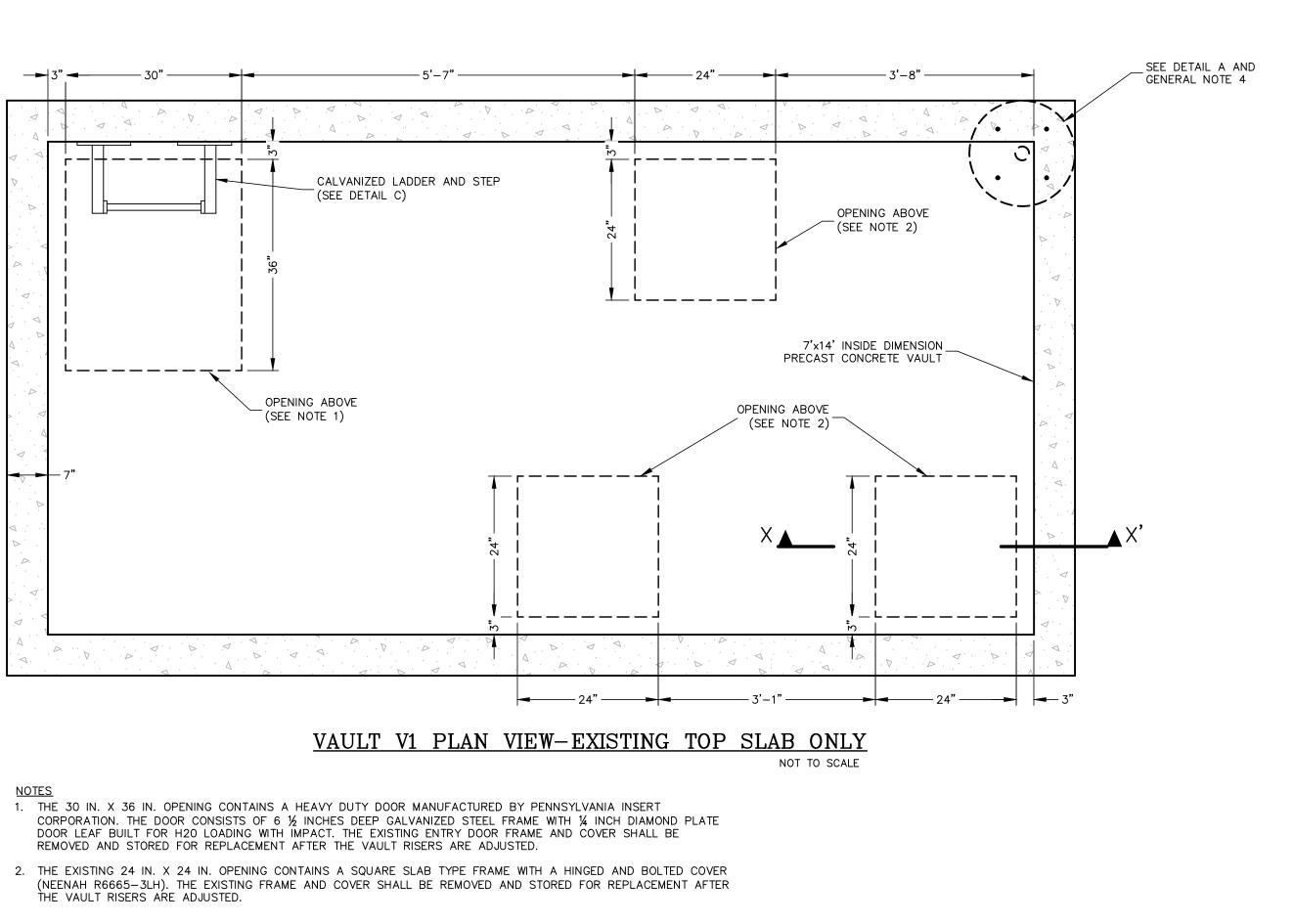
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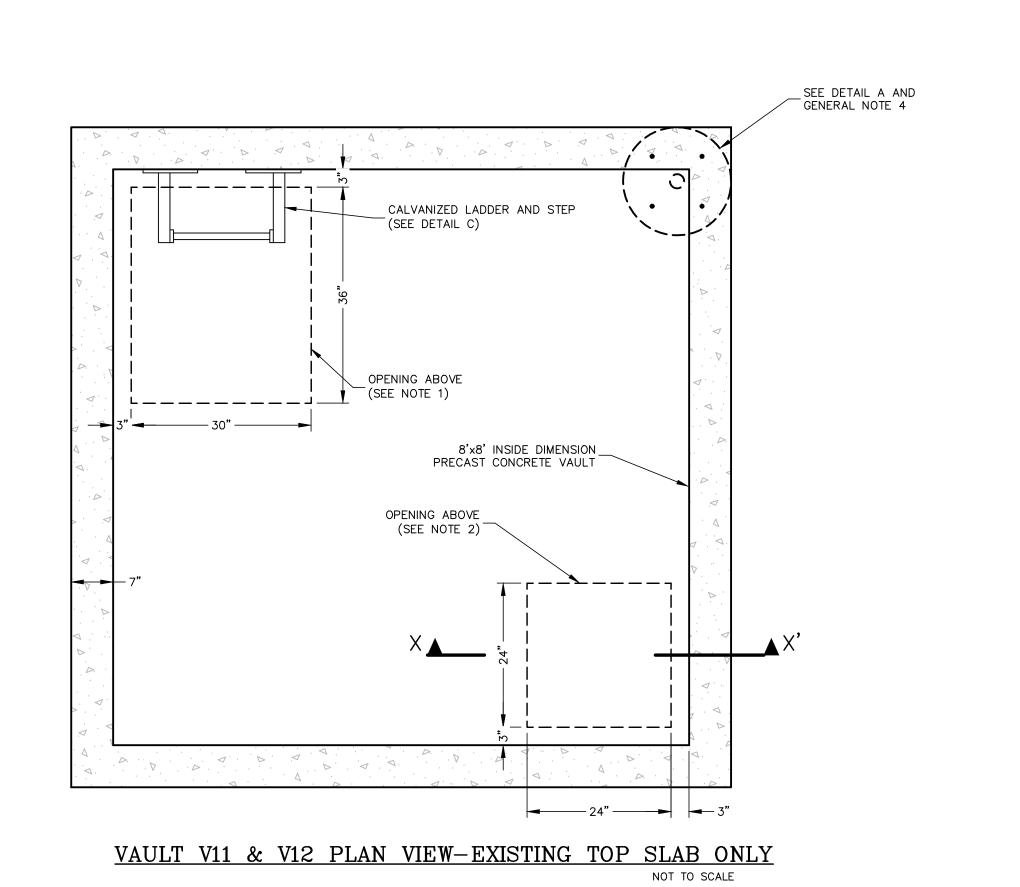
LEVEL 1

CONTINGENCY PIPING PLAN AND DETAILS

07/15/13 checked by: **AS SHOWN** project number: sheet number



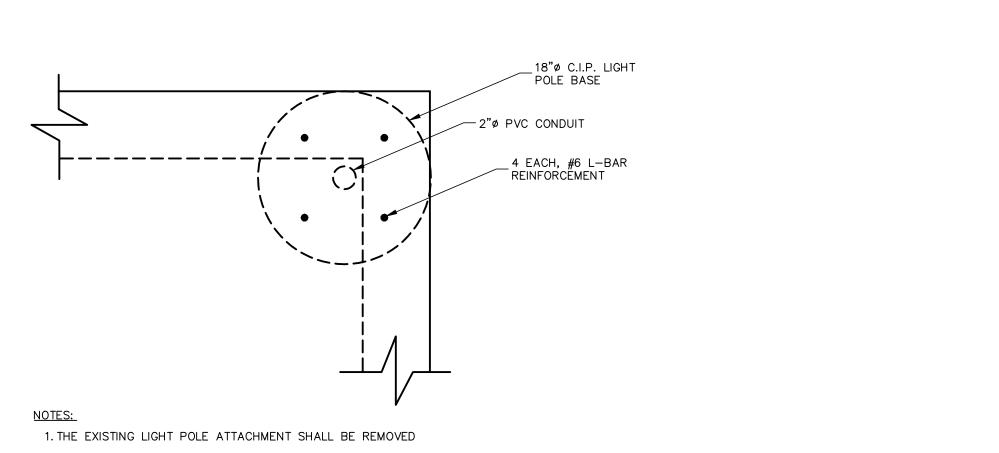




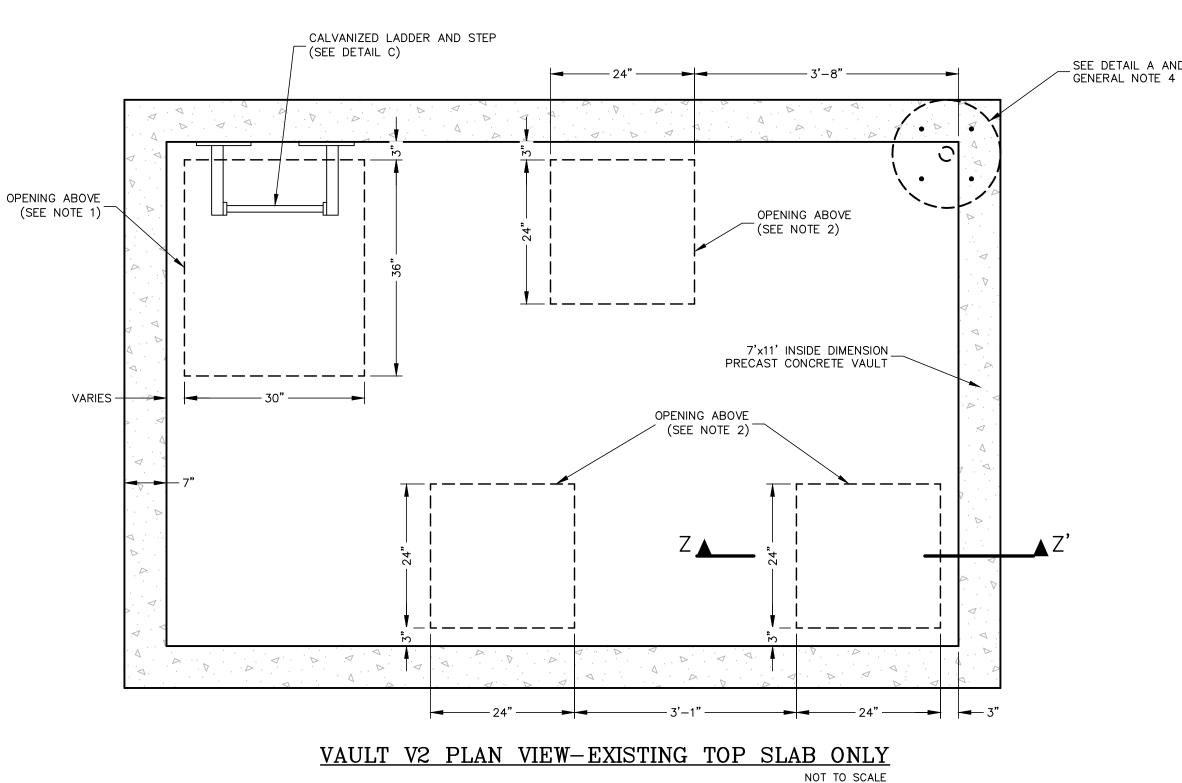
1. THE 30 IN. X 36 IN. OPENING CONTAINS A HEAVY DUTY DOOR MANUFACTURED BY PENNSYLVANIA INSERT CORPORATION. THE DOOR CONSISTS OF 6 ½ INCHES DEEP GALVANIZED STEEL FRAME WITH ¼ INCH DIAMOND PLATE DOOR LEAF BUILT FOR H20 LOADING WITH IMPACT. THE EXISTING ENTRY DOOR FRAME AND COVER SHALL BE REMOVED AND STORED FOR REPLACEMENT AFTER THE VAULT RISERS ARE ADJUSTED.

2. THE EXISTING 24 IN. X 24 IN. OPENING CONTAINS A SQUARE SLAB TYPE FRAME WITH A HINGED AND BOLTED COVER (NEENAH R6665-3LH). THE EXISTING FRAME AND COVER SHALL BE REMOVED AND STORED FOR REPLACEMENT AFTER THE VAULT RISERS ARE ADJUSTED.

DETAIL A: EXISTING LIGHT POLE ATTACHMENT



NOT TO SCALE



REMOVED AND STORED FOR REPLACEMENT AFTER THE VAULT RISERS ARE ADJUSTED.

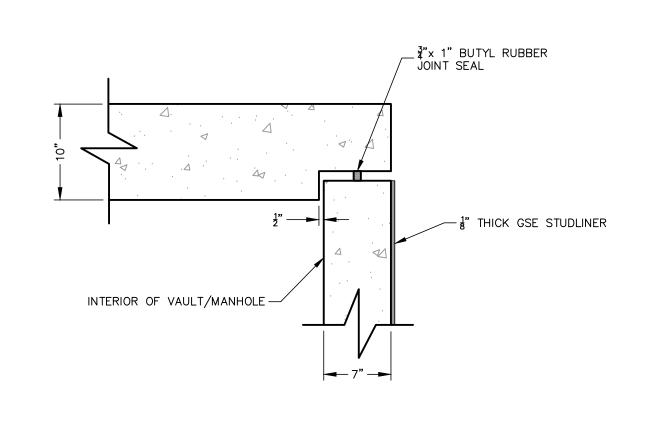
(NEENAH R6665-3LH). THE EXISTING FRAME AND COVER SHALL BE REMOVED AND STORED FOR REPLACEMENT AFTER THE VAULT RISERS ARE ADJUSTED. SQUARE SLAB TYPE MANHOLE FRAME WITH A BOLTED, GASKET-SEALED LID (HEAVY DUTY) - WITH STEEL BUTT HINGES AND LOCKING BOLTS. NEENAH CATALOG NO. R-6665-2LH (OR EQUAL) FINAL GRADE NEW ACCESS RISER EXTENSION EXISTING GRADE — ---+---

1. ALL ACCESS RISER OF THE VAULT (FOUR FOR VAULT 1 AND TWO FOR VAULTS 11 AND 12) SHALL BE ADJUSTED TO THE FINISH GRADE AS INDICATED IN THE SCHEDULE BELOW. THE FINAL ELEVATION SHALL CONFIRM WITH THE FINAL GRADING PLAN AND SHALL BE ADJUSTED TO FIELD CONDITIONS.

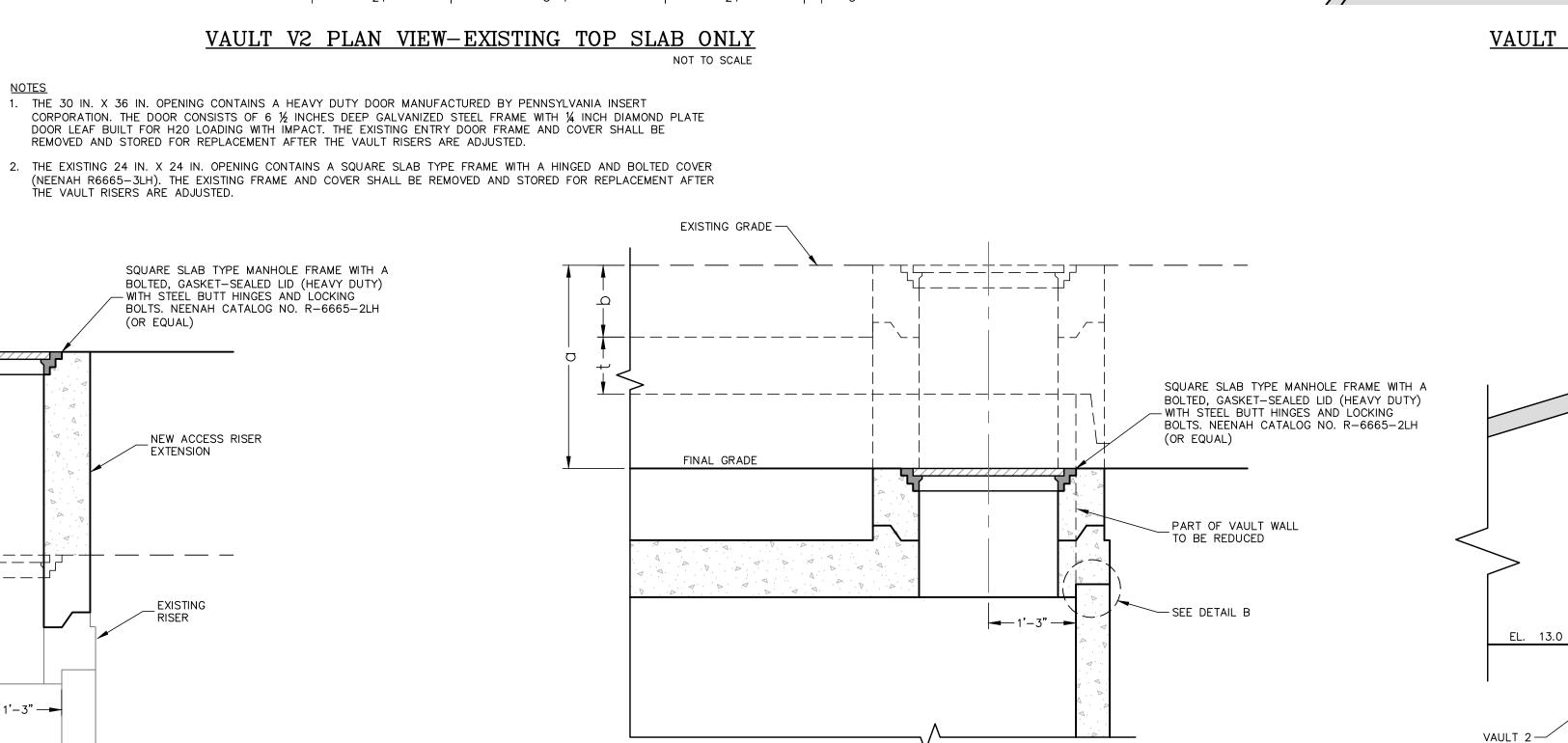
2. THE MAXIMUM COVER OVER THE VAULT CEILING (a+b IN THE SCHEDULE BELOW) SHALL NOT EXCEED THE MAXIMUM COVER HEIGHT INDICATED ON THÉ SCHEDULE. 3. THE VAULT RISER HEIGHT ADJUSTMENT SHALL BE COORDINATED WITH GRADING AND PAVEMENT/ROAD CONSTRUCTION.

Vault#	Existing Grade (ft)	Final Grade (ft)	Top Slab Thickness (in.) "t"	Existing Surcharge Depth (ft) "b"	Access Riser Extension (ft) "a"	Maximum cover over the Vault Ceiling (ft)
1	13.9	17.5	10	1.66	3.60	5.2
11	11.86	17	8	1.02	5.14	7.5
12	11.46	15.5	8	1.25	4.04	7.5

NOT TO SCALE



DETAIL B: TYPICAL JOINT DETAIL NOT TO SCALE

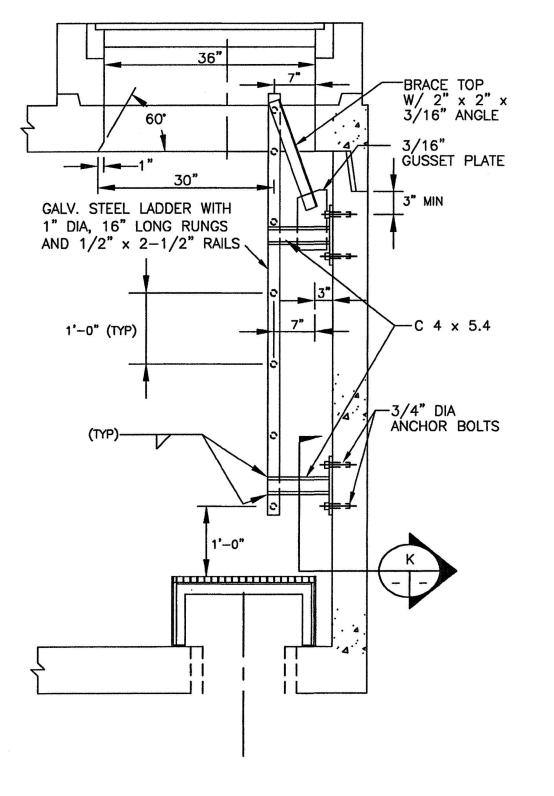


1. TOP SLAB SHALL BE REMOVED, AND REPLACED LATER AFTER ADJUSTING THE RISER AND WALLS OF THE VAULT TO HEIGHT INDICATED IN THE SCHEDULE BELOW. THE FINAL ELEVATION SHALL CONFIRM WITH THE FINAL GRADING PLAN AND SHALL BE ADJUSTED TO FIELD CONDITIONS. 2. THE EXISTING 16.5-INCH LONG RISER SHALL BE REPLACED WITH A NEW 10-INCH LONG RISER. UPPER 1.83 FT. OF THE WALLS OF THE VAULT SHALL BE SAW CUT TO ACHIEVE THE TOTAL HEIGHT REDUCTION OF 2.38 FT. REQUIRED FOR ELEVATION ADJUSTMENT. 3. VAULT LIGHTING AND 480 VOLT CONDUITS (NOT SHOWN) ARE CONNECTED TO THE CEILINGS. SUCH ITEMS SHALL BE TEMPORARILY DISCONNECTED AND REPLACED LATER AFTER ADMISSING THE VALUE WAS A SHORT OF THE VALUE WAS A SHOTT OF THE VALUE WAS A SHORT OF THE VALUE WAS A SHORT OF THE VALU TEMPORARY DISCONNECTION, THE CONTRACTOR SHALL PROVIDE TEMPORARY POWER SUPPLY TO MAINTAIN UNINTERRUPTED OPERATION OF THE HMS SYSTEM. THE EXISTING ACCESS LADDER ON THE WALL SHALL ALSO BE ADJUSTED OR REPLACED IN KIND TO ACCOMMODATE THE VAULT HEIGHT MODIFICATION. 4. ANY EQUIPMENT AND PIPING THAT ARE WITHIN THE TOP 1.83 FEET OF THE WALL SHALL BE LOWERED TO ADJUST TO THE ELEVATION CHANGE. 5. THE WALLS SHALL BE SAW CUT TO ADJUST THE ELEVATION. THE CUT WALL SHALL HAVE A MIN. 1-INCH GROUT BED. EXTERIOR WALLS OF THE VAULT ARE COATED WITH GSE STUD-LINER, AND A GEOMEMBRANE OF MMC IS CONNECTED TO THE STUD—LINER AT 3.06 FEET BELOW THE TOP OF THE VAULT WALLS. WHILE SAW CUTTING UPPER 1.83 FEET OF THE VAULT WALLS, THE LINER SHALL ALSO BE CAREFULLY CUT SO AS NOT TO DISLODGE OR DAMAGE THE STUD-LINER FROM THE REMAINING UNCUT PORTION OF THE WALL OR ADVERSELY IMPACT THE CONNECTION TO THE GEOMEMBRANE. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REINSTALLATION OF THE DAMAGED LINER AND GEOMEMBRANE. 6. V2 IS LOCATED INSIDE CENTRAL PLAZA PARKING LOT. THE V2 MODIFICATION SHALL BE COORDINATED WITH

GRADING & CENTRAL PLAZA GARAGE CONSTRUCTION. 7. AFTER HEIGHT ADJUSTMENT, VAULT 2 WILL BE LOCATED APPROXIMATELY 13' BENEATH THE WILLS STREET RAMP. ACCESS PORT (SEE VAULT 2 ACCESS PORT PLAN AND ELEVATION ON THIS SHEET) IS REQUIRED ON THE WILLS STREET RAMP IMMEDIATELY ABOVE THE VAULT 2 FOR ACCESSING THE LOCATION FOR POTENTIAL FUTURE WELL REPLACEMENT (SEE V2 ACCESS PORT LOCATION THIS SHEET). \_\_\_\_\_ VAULT REDUCTION SCHEDULE Top Slab Existing Surcharge Vault Reduction Existing | Final Grade | Thickness (in.) | Depth (ft)

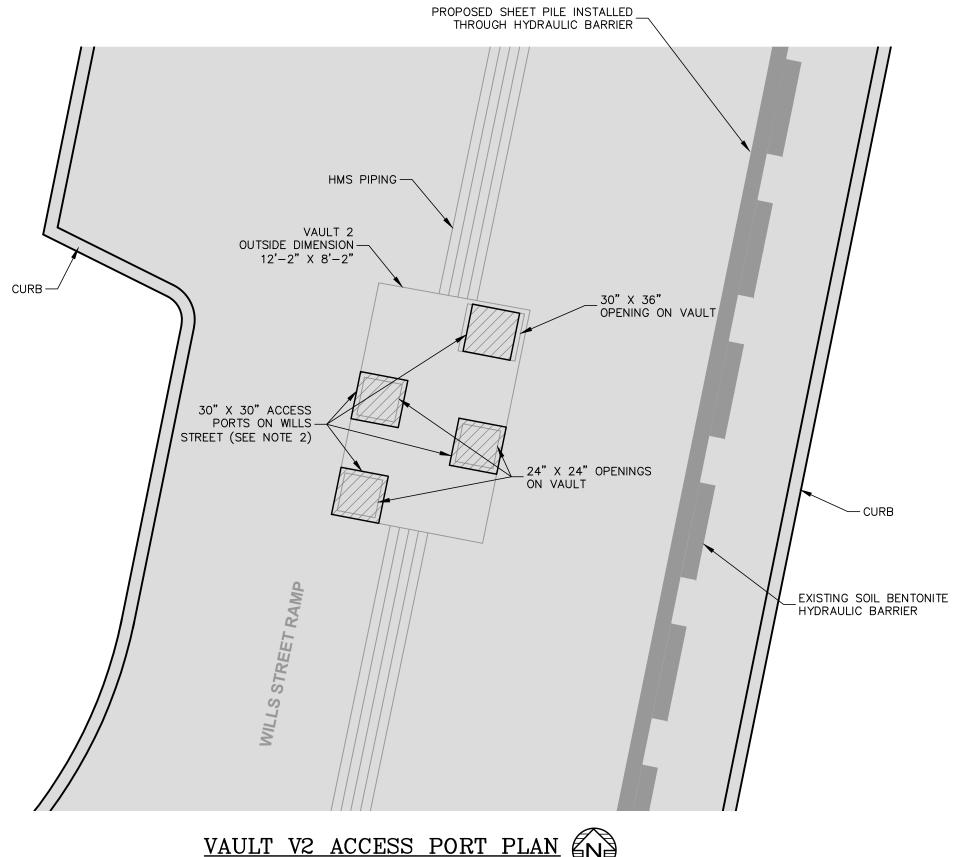
Vault # Grade (ft) (ft) "t"

SECTION Z-Z': VAULT WALL REDUCTION DETAIL



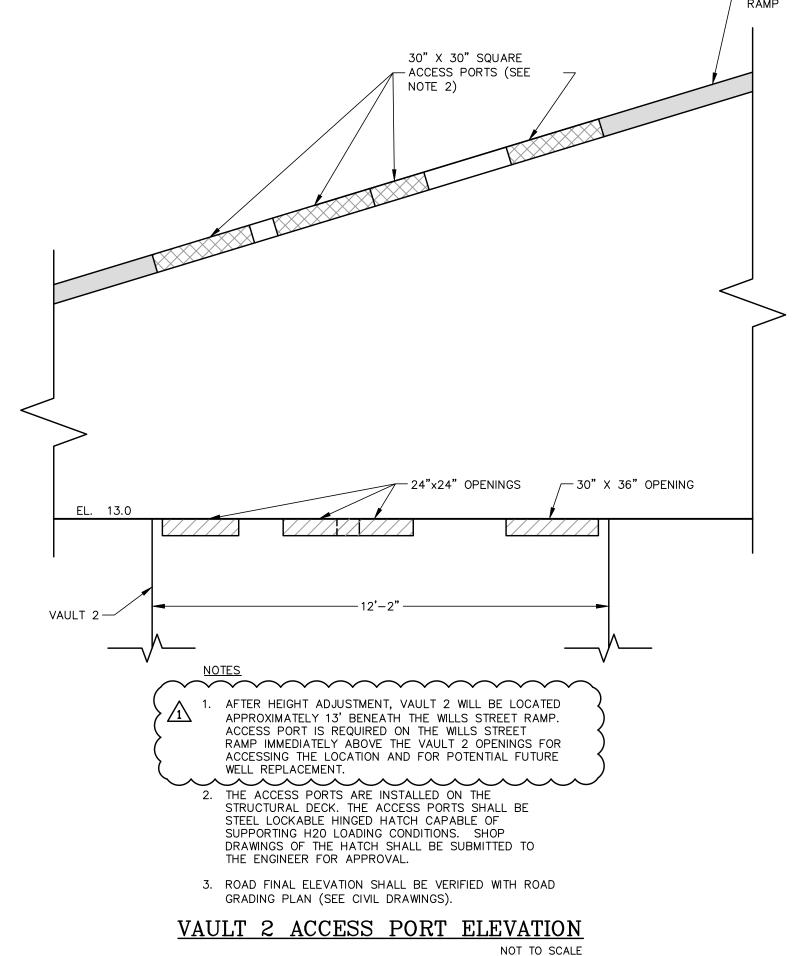
1. THE EXISTING LADDER SHALL BE REPLACED WITH THE SIMILAR KIND TO ADJUST TO THE ELEVATION CHANGES AS INDICATED ON THIS DRAWING. DETAIL C: LADDER DETAIL

NOT TO SCALE



VAULT V2 ACCESS PORT PLAN

SCALE: 1" = 5'

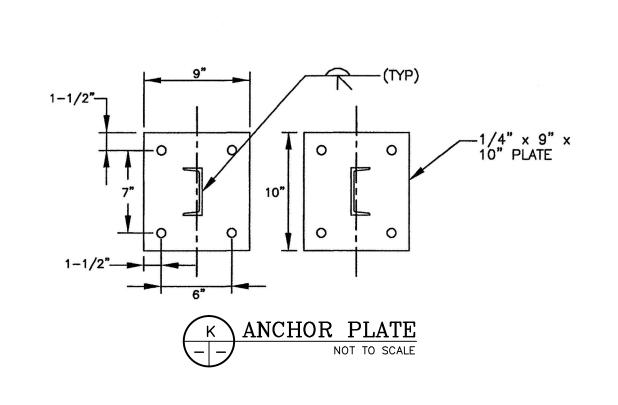


# 1. THE EXISTING GRADE ELEVATIONS AND DIMENSIONS SHALL BE FIELD

- 2. PLAN VIEWS OF THE VAULTS DO NOT SHOW VAULT FLOOR AND/OR WALL FEATURES. 3. VAULT 1 AND VAULT 12 REQUIRES EXTENSION OF ACCESS RISERS.
- VAULT 2 REQUIRES REDUCTION OF THE VAULT WALLS AS INDICATED ON THE DETAILS PRESENTED ON THIS DRAWING. 4. THE EXISTING LIGHT POLE INCLUDING POLE ATTACHMENTS SHALL BE
- WATER TIGHT AND SHALL MEET ACI 350. THE EXTERIOR OF THE MANHOLES SHALL BE LINED WITH GSE STUDLINER. 6. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL THE MODIFICATION INCLUDING CONNECTION, STRUCTURAL DESIGN AND FABRICATION OF THE VAULTS.

5. ALL MODIFICATION AND FABRICATION TO THE VAULTS SHALL BE

- **DESIGN NOTES:** 1. MODIFICATION PRESENTED ON THIS DRAWING SHALL MEET THE FOLLOWING SPECIFICATION. THE EXISTING VAULTS MEET THESE
- CONCRETE MINIMUM STRENGTH: 5,000 PSI @ 28 DAYS ASTM A-615. GRADE 60 STEEL REINFORCEMENT: DESGIN LOADING: AASHTO HS20-44 (30% IMPACT ALLOWANCE)
- CONSTRUCTION JOIN: SEALED WITH 1-INCH DIAMETER BUTYL RUBBER 2. SHOP DRAWINGS OF THE EXISTING VAULTS 1, 2 AND 12 WILL BE PROVIDED IN THE BID DOCUMENT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE DIMENSIONS SHOWN ON THE PLANS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE TO MEET THE EXISTING DESIGN SPECIFICATION INCLUDING BUT NOT LIMITED TO MATERIALS, LINER, COATINGS, REINFORCEMENT, AND LOADING.



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Baltimore, MD 21231

mep & fp engineer: Vanderweil 625 N. Washington Street

P 410-332-1100

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HARBOR POINT AREA 1 PHASE 1 8/1/13 (REVISED 11/12/13)

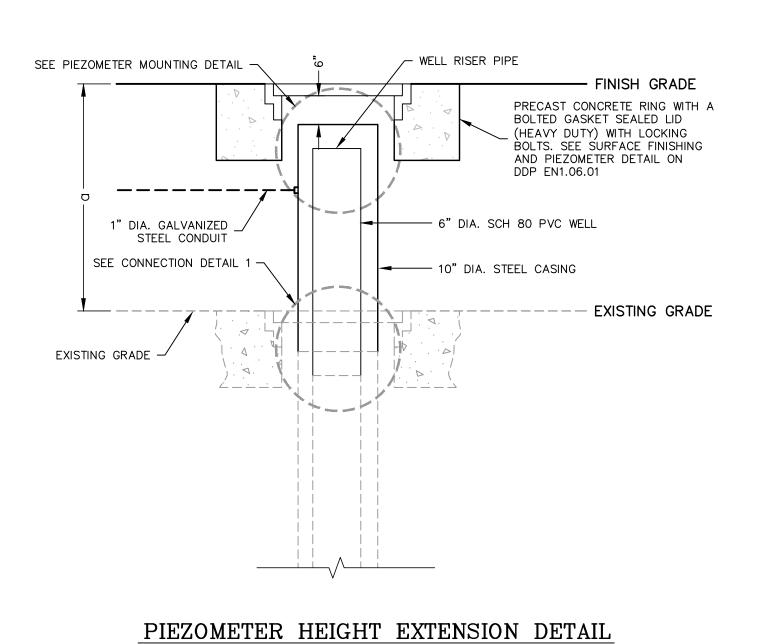
key plan

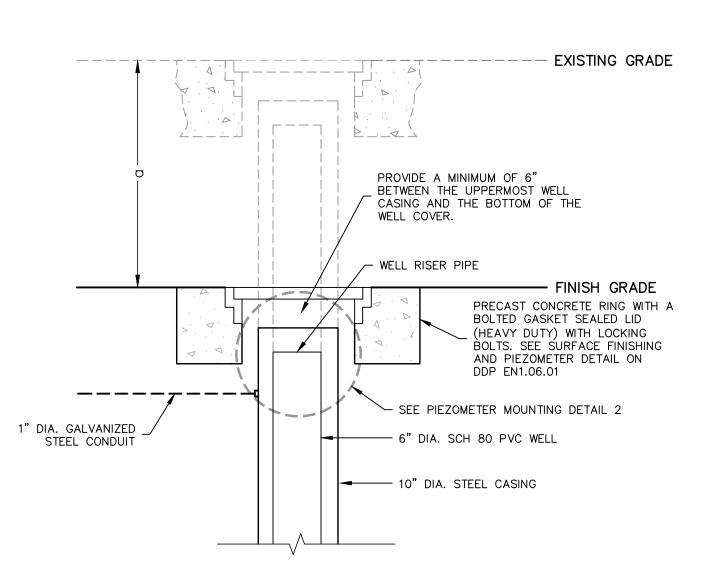
revision date description 1 11/8/2013 UPDATED NOTES

VAULT MODIFICATION

DETAILS

checked by: project number:

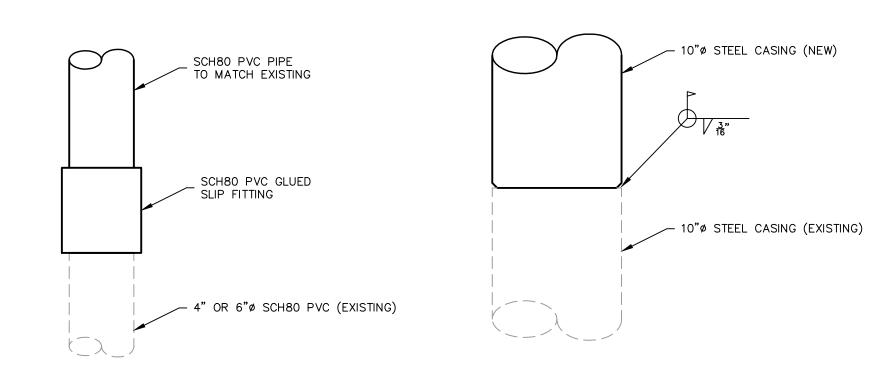




### PIEZOMETER HEIGHT REDUCTION DETAIL

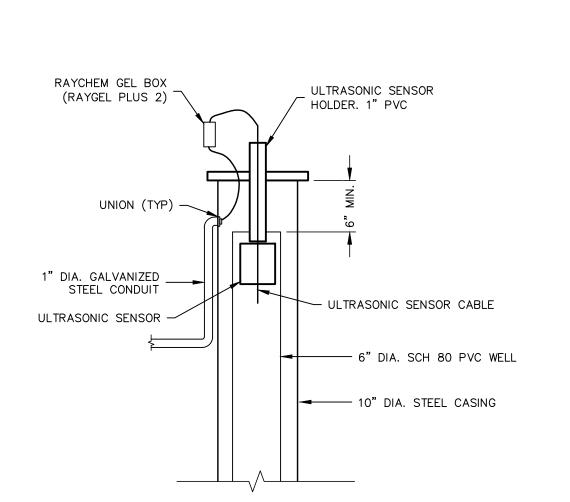
- 1. THE EXISTING GRADE ELEVATIONS AND DIMENSIONS SHALL BE FIELD
- 2. PIEZOMETERS SHALL BE ADJUSTED TO THE HEIGHT INDICATED IN THE SCHEDULE BELOW. THE FINAL ELEVATION SHALL CONFIRM WITH FINAL GRADING PLAN AND SHALL BE ADJUSTED TO FIELD CONDITIONS. 3. THE ADJUSTMENT SHALL BE COORDINATED WITH GRADING AND ROAD
- CONSTRUCTION WORK. 4. AFTER HEIGHT ADJUSTMENT, PIEZOMETER SET 1 (IP/OP-1 AND IP/OP-1S) WILL BE LOCATED APPROXIMATELY 6 TO 8 FEET AND SET 2 (IP/OP-2 & IP/OP-2S) WILL BE LOCATED APPROXIMATELY 12 TO 14 FEET BENEATH THE WILLS STREET RAMP. ACCESS PORTS ARE REQUIRED ON WILLS STREET IMMEDIATELY ABOVE THE PIEZOMETERS FOR ACCESSING PIEZOMETERS AND FOR POTENTIAL FUTURE PIEZOMETER REPLACEMENT (SEE PIEZOMETER ACCESS PORT PIEZOMETER ADJUSTMENT SCHEDULE

Location	Exisiting Finish Grade (ft)	Proposed Finish Elevation (ft)	Finish Elevation Adjustment (ft) "a"
IP1	14.35	13	-1.35
ISP1	14.41	13	-1.41
OP1	14.23	13	-1.23
OSP1	14.23	13	-1.23
IP2	16.32	14	-2.32
ISP2	16.35	14	-2.35
OP2	16.16	14	-2.16
OSP2	16.28	14	-2.28
IP11	8.93	18	9.07
OP11	7.16	18	10.84
IP12	14.09	13	-1.09
OP12	10.66	13	2.34



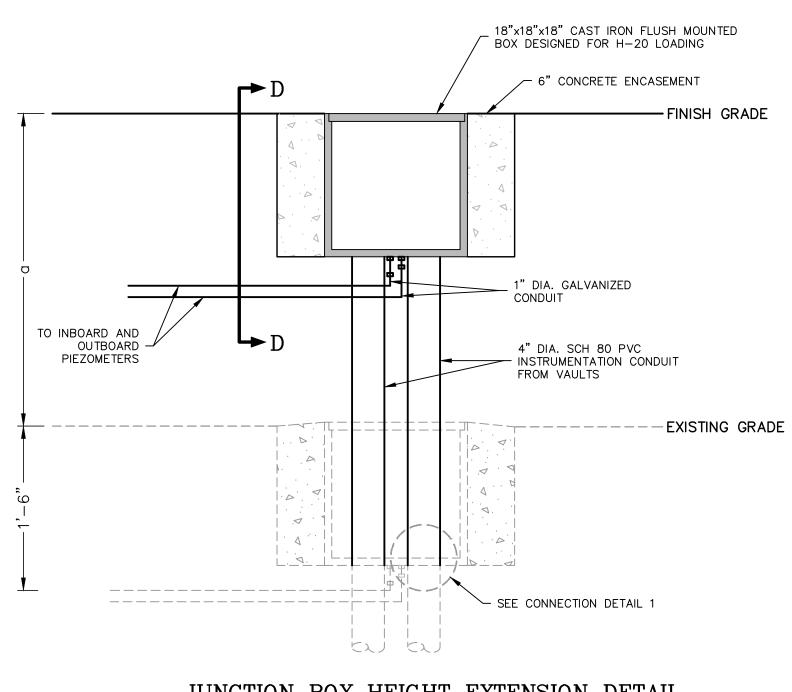
<u>DETAIL 1 — CONNECTION DETAIL</u> 1. ALL PVC FITTINGS SHALL BE IN ACCORDANCE WITH

ASTM D-2564 AND D-2855

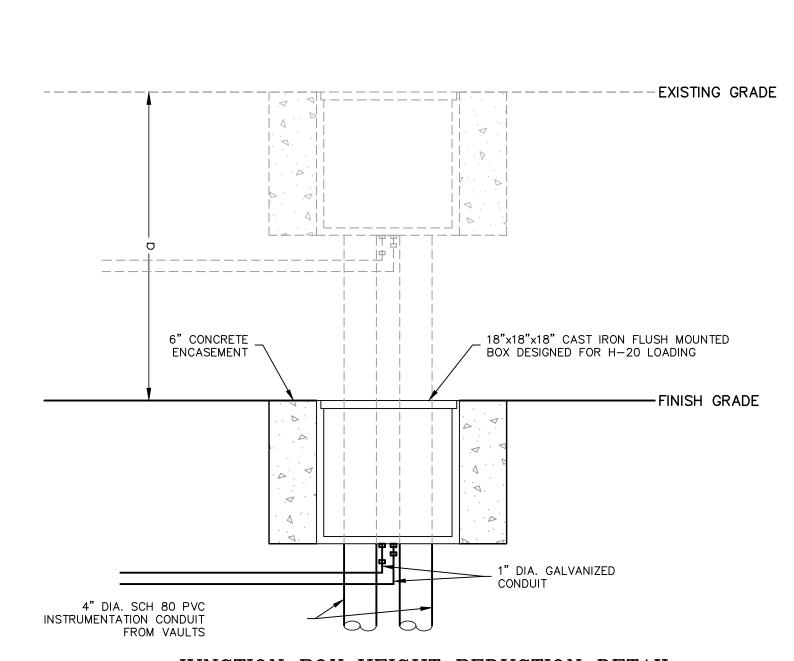


<u>DETAIL 2 - PIEZOMETER MOUNTING DETAIL</u>

0199768-01/MISC DETAILS



JUNCTION BOX HEIGHT EXTENSION DETAIL



# JUNCTION BOX HEIGHT REDUCTION DETAIL

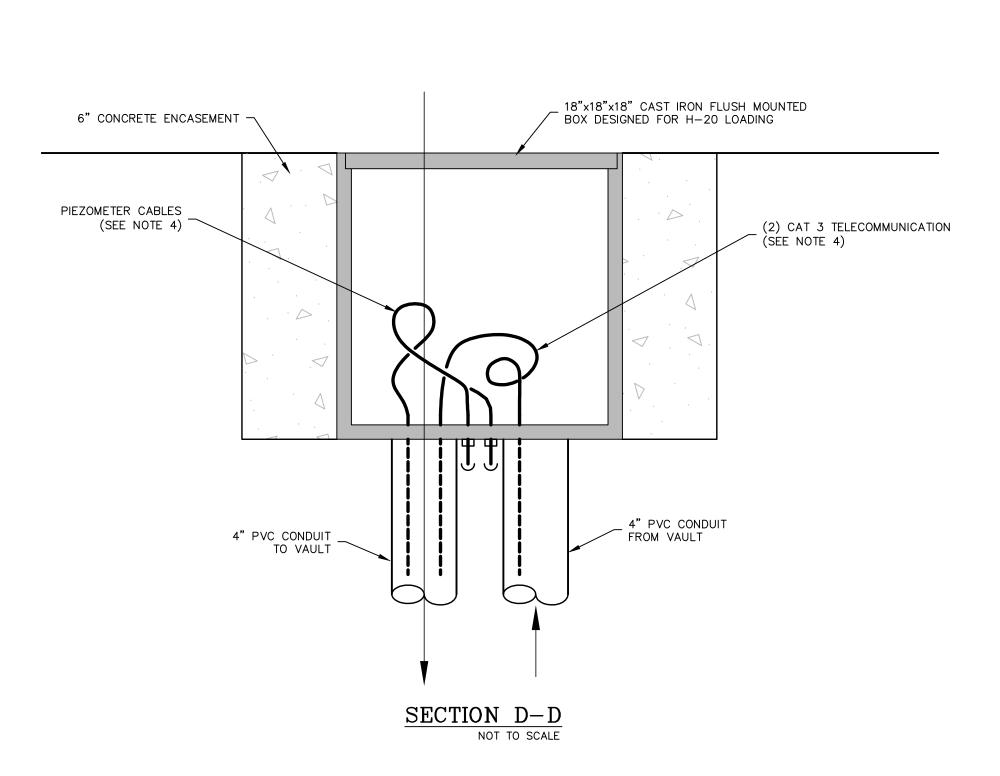
- 1. THE EXISTING GRADE ELEVATIONS AND DIMENSIONS SHALL BE FIELD
- 2. EXISTING JUNCTION BOXES SHALL BE REPLACED WITH THE NEW JUNCTION BOXES. THE 1" DIAMETER GALVANIZED CONDUIT BETWEEN JUNCTION BOX AND PIEZOMETERS SHALL BE ADJUSTED SUCH THAT THE CONDUIT IS A MINIMUM OF 18" BELOW THE FINAL FINISH
- 3. IF LLDPE BOOT FOR THE MMC IS ENCOUNTERED ABOVE THE NOTED ELEVATION, THE BOOT WILL BE REDUCED IN HEIGHT AND REPAIRED WITH QA/QC MEETING THE STANDARD ON THE PILE BOOTING SHEET

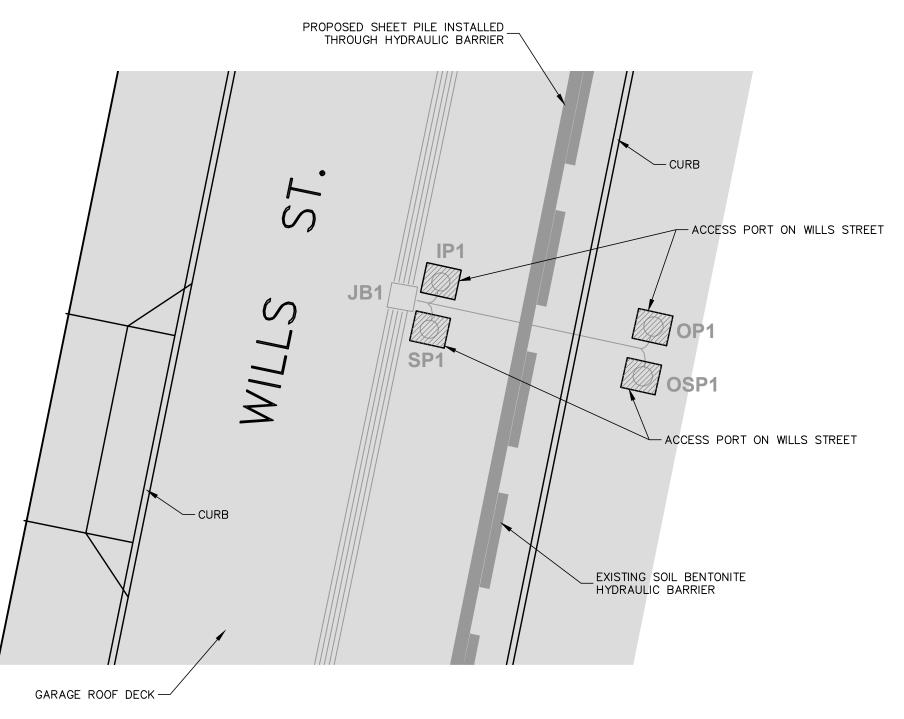
(SEE FOUNDATION DRAWINGS).

- 4. THE ADJUSTMENT SHALL BE COORDINATED WITH GRADING AND ROAD CONSTRUCTION WORK. THE FINAL ELEVATION SHALL CONFIRM WITH FINAL GRADING PLAN AND SHALL BE ADJUSTED TO FIELD CONDITIONS.
- 5. CABLES SHALL NOT BE CUT AND SPLICED. IF REQUIRED CONTRACTOR SHALL REPLACE THE ENTIRE EXISTING CABLES FROM PIEZOMETER TO JUNCTION BOX. THE CONTRACTOR SHALL ALSO PROVIDE AN
- ADDITIONAL 15 FEET OF CAT 3 CABLES AND PIEZOMETER CABLES AT EACH JUNCTION BOX AND COIL THE EXCESS FOR FUTURE EXTENSION. 6. JUNCTION BOX ALSO CONTAINS BELDEN SHIELDED SECURITY CABLES (NOT SHOWN ON THE DETAILS) CONNECTING VAULTS SENSORS TO THE
- NEXT RIC. JUNCTION BOX 1, 11, AND12 CONTAINS MULTI-PAIR SECURITY CABLES. SUCH CABLES SHALL NOT BE CUT AND SPLICED, BUT REPLACED ENTIRE SECTION IN KIND. REMOVAL AND INSTALLATION OF WIRING COORDINATED WITH SITE OPERATION

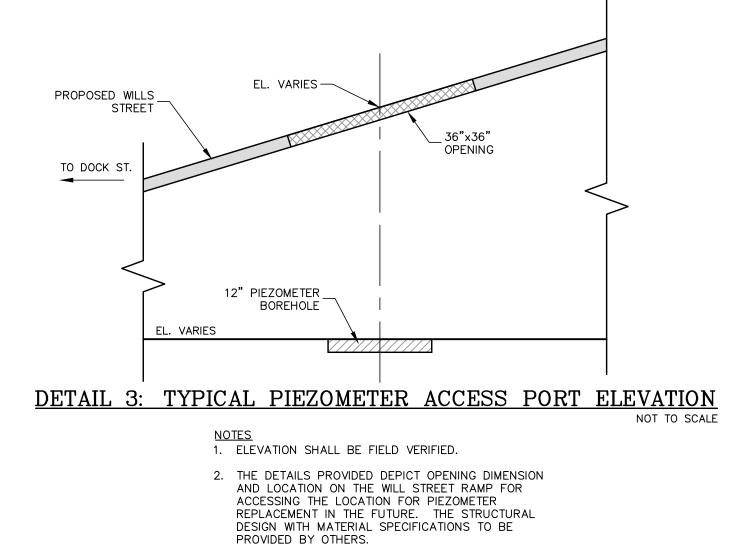
# JUNCTION BOX ADJUSTMENT SCHEDULE

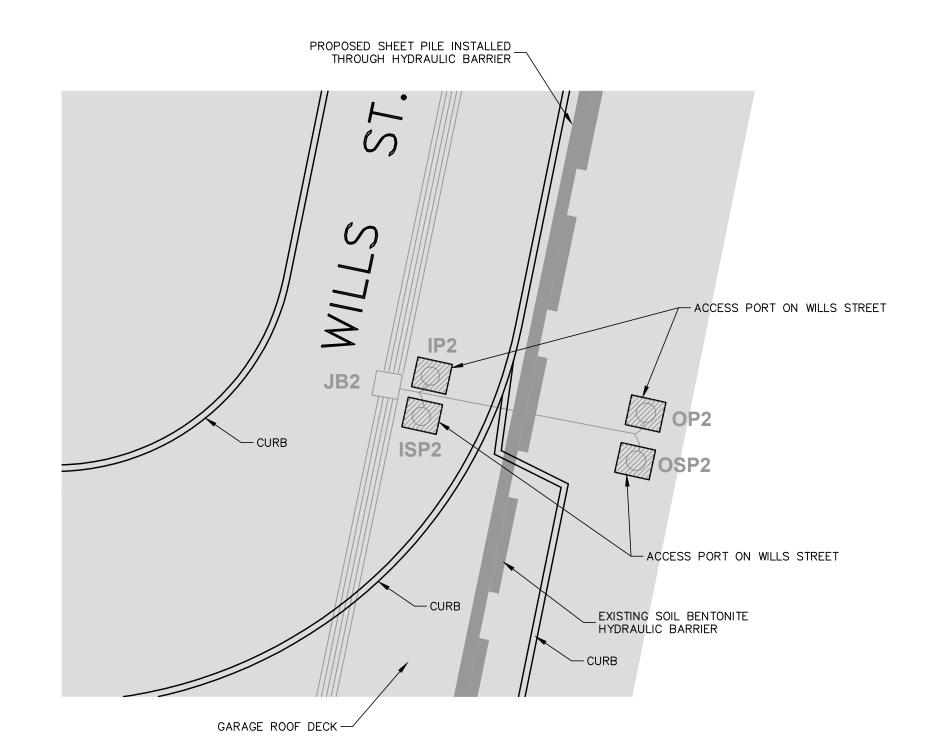
JB #	EXISTING FINISH ELEVATION (FT.)	FINAL FINISH ELEVATION (FT.)	EXTENSION/REDUCTION "a" FT.
JB-1	14.31	13.0	-1.31
JB-2	16.68	14.0	-2.68
JB-11	9.17	18.0	+8.83
JB-12	14.30	13.0	-1.30



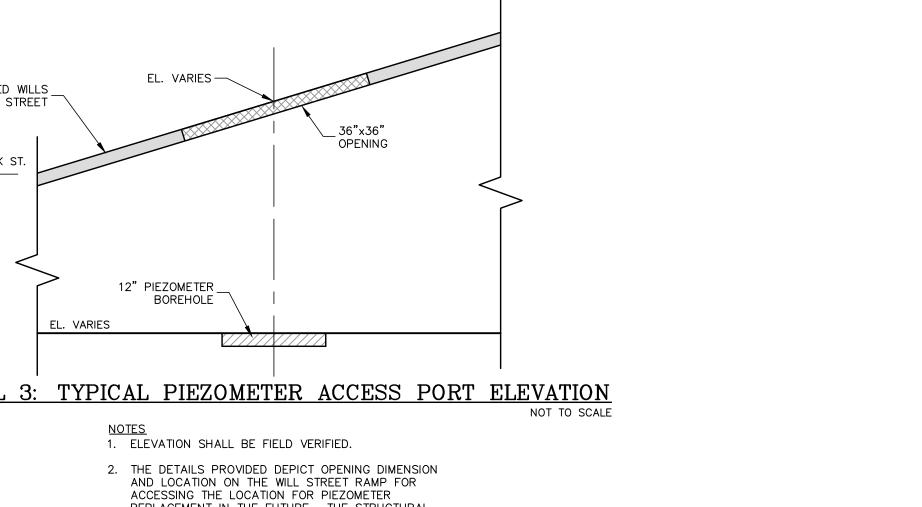


IP1/OP1 ACCESS PORT LOCATION





IP2/OP2 ACCESS PORT LOCATION



ARCHITECTS

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HARBOR POINT AREA 1 PHASE 1 DDP SUBMISSION 8/1/13

key plan

issued date description

revision date

GENERAL MODIFICATION NOTES: 1. ANY DOWNTIME OF THE HMS OPERATION DUE TO PROPOSED MODIFICATION SHALL BE COORDINATED WITH HONEYWELL. 2. THE EXISTING CONDITION OF PIEZOMETERS, VAULTS, AND JUNCTION BOXES, INCLUDING DIMENSION, CONNECTION DETAILS, AND ELEVATIONS

SHALL BE FILED VERIFIED.

PIEZOMETER MODIFICATIONS: 1. PRIOR TO PIEZOMETER MODIFICATION THE EXISTING CONNECTION SUCH AS ULTRASONIC SENSOR, ASSOCIATED CABLES AND CABLE HOLDER SHALL BE TEMPORARILY DISCONNECTED. 2.FOR SPECIFIED PIEZOMETERS BOTH THE PVC RISER AND STEEL PROTECTION CASING SHALL BE ADJUSTED IN ACCORDANCE TO THE

DETAILS PRESENTED ON THE DRAWINGS. 3.AFTER HEIGHT ADJUSTMENT AND INSTALLATION OF REPLACEMENT PIEZOMETERS, ALL THE TEMPORARY DISCONNECTION SHALL BE RECONNECTED TO MATCH THE PRIOR CONDITION. 4. WATER LEVEL SHALL BE MONITORED AND INSTRUMENT ADJUSTED AND

CALIBRATED TO MEET THE EXISTING OPERATING CONDITIONS. INSTRUMENT CALIBRATION SHALL BE PERFORMED PRIOR TO A CHECKOUT OF THE OPERATION OF THE SYSTEM.

JUNCTION BOX MODIFICATIONS: 1. EXISTING MULTIMEDIA CAP (MMC) SHALL NOT BE PENETRATED FOR THE PROPOSED MODIFICATION. THE CONTRACTOR SHALL USE ELECTRICAL CONDUIT FITTINGS SUCH AS 90/45 DEGREE ELBOWS TO AVOID PENETRATING INTO THE MMC. ONLY THOSE PIPE FITTINGS SHALL BE USED THAT DO NOT RESIST WIRE EXTENSION. 2.PRIOR TO JUNCTION BOX HEIGHT ADJUSTMENTS THE EXISTING

CONNECTION SUCH AS ULTRASONIC SENSOR, ASSOCIATED CABLES AND CABLE HOLDER SHALL BE TEMPORARILY DISCONNECTED. 3. JUNCTION BOX 11 SHALL BE SHIFTED AS DETAILED ON THE DRAWING DDP EN1.06.01 TO AVOID CONFLICT WITH CURB 4.CABLES SHALL NOT BE CUT AND PATCHED. IF NEW CABLE IS

REQUIRED, THE ENTIRE CABLE SHALL BE REPLACED TO ITS ENTIRETY. THERE ARE ADDITIONAL CABLES THAT NOT SHOWN ON THE DRAWINGS SUCH AS MULTI-PAIR OR SINGLE-PAIR (BELDON SHIELDED WIRE) FOR VAULT SECURITY SENSOR WHICH RUN FROM VAULT TO JUNCTION BOX. THE CONTRACTOR SHALL VERIFY THE EXISTING CABLE MAKE AND TYPE, AND SHALL REPLACE (IF REQUIRED) WITH THE SIMILAR KIND.

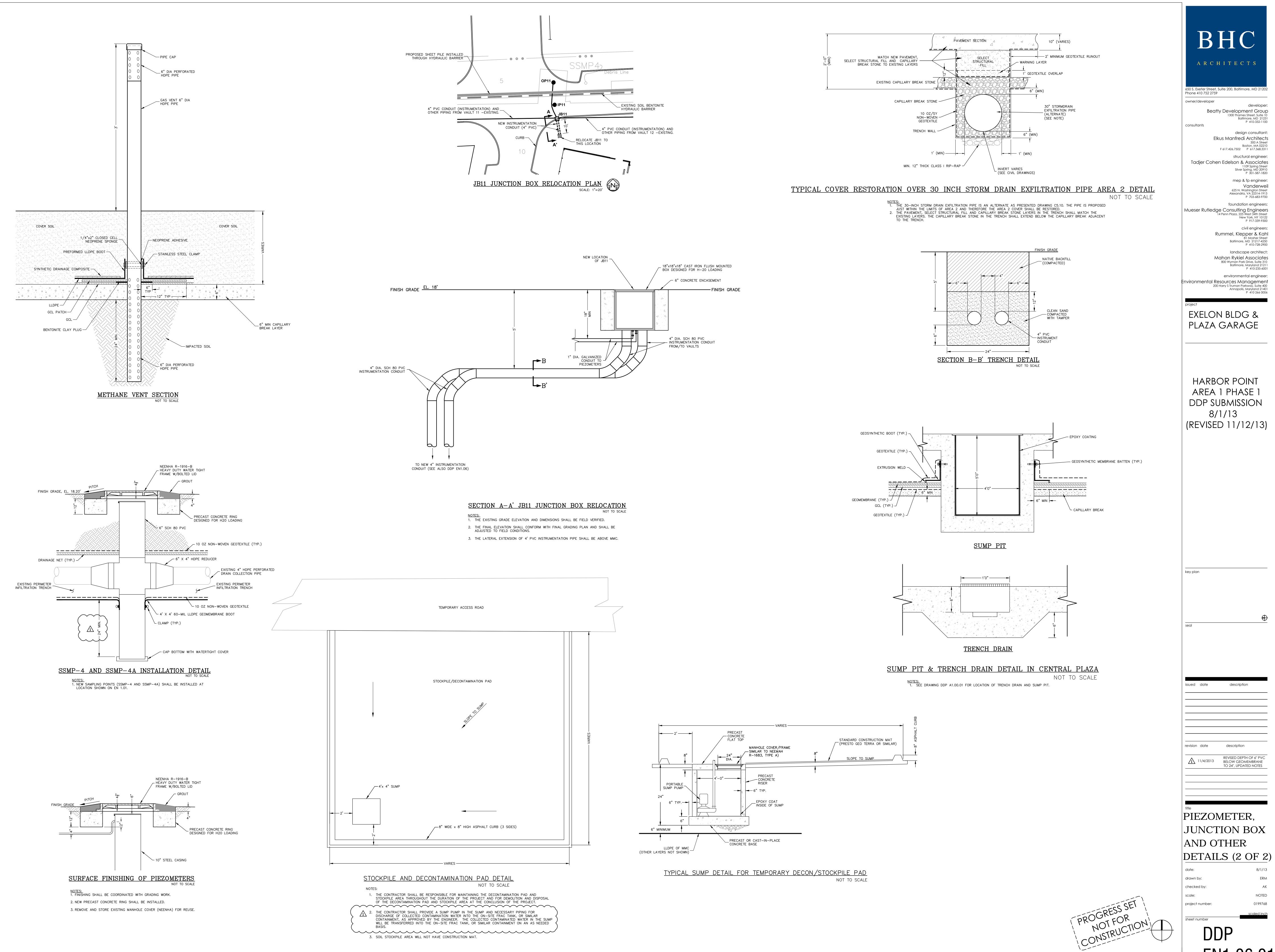
5. WHILE PULLING REPLACEMENT OR NEW CABLES CARE SHALL BE GIVEN NOT TO DAMAGE THE EXISTING/REMAINING WIRING SYSTEM. 6.AFTER MODIFICATION, ALL THE TEMPORARY DISCONNECTION SHALL BE RECONNECTED TO MATCH THE PRIOR CONDITION.

PIEZOMETER, JUNCTION BOX AND OTHER DETAILS (1 OF 2)

description

/1 11/8/2013 UPDATED NOTES

drawn by: checked by: NOTED scale: project number: 0199768 sheet number



0199768-01/MISC DETAILS

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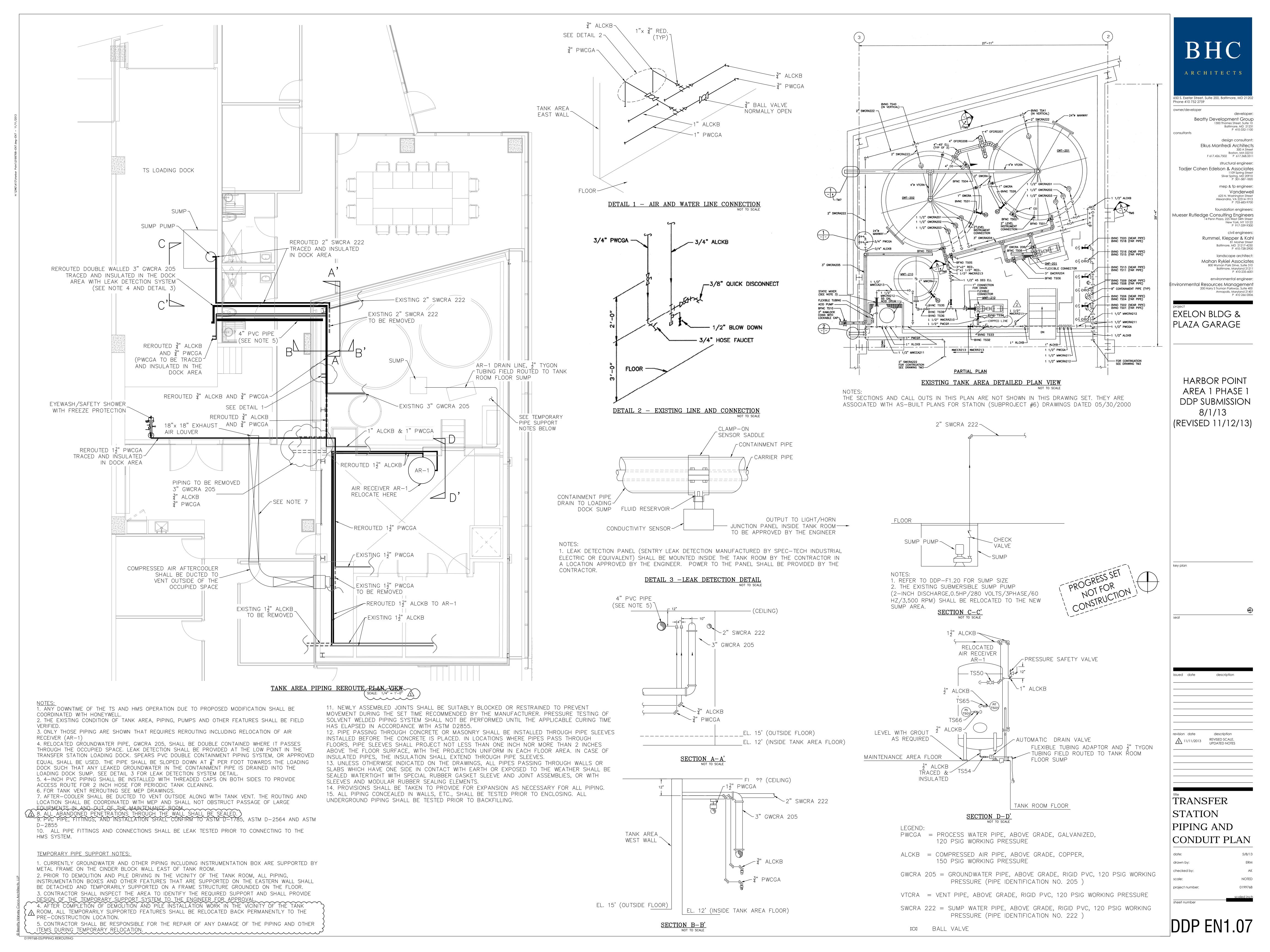
EXELON BLDG &

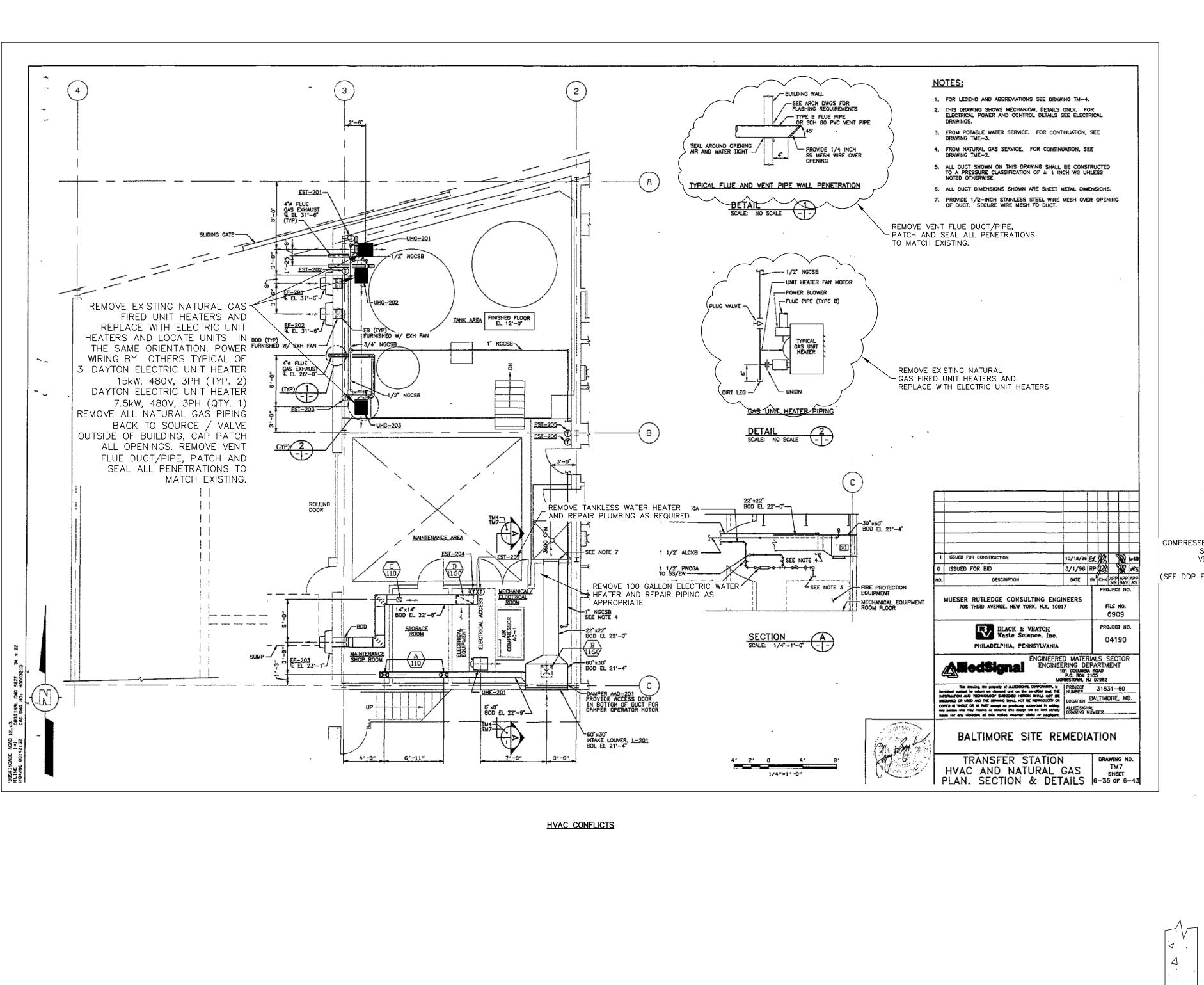
HARBOR POINT AREA 1 PHASE 1 DDP SUBMISSION 8/1/13 (REVISED 11/12/13)

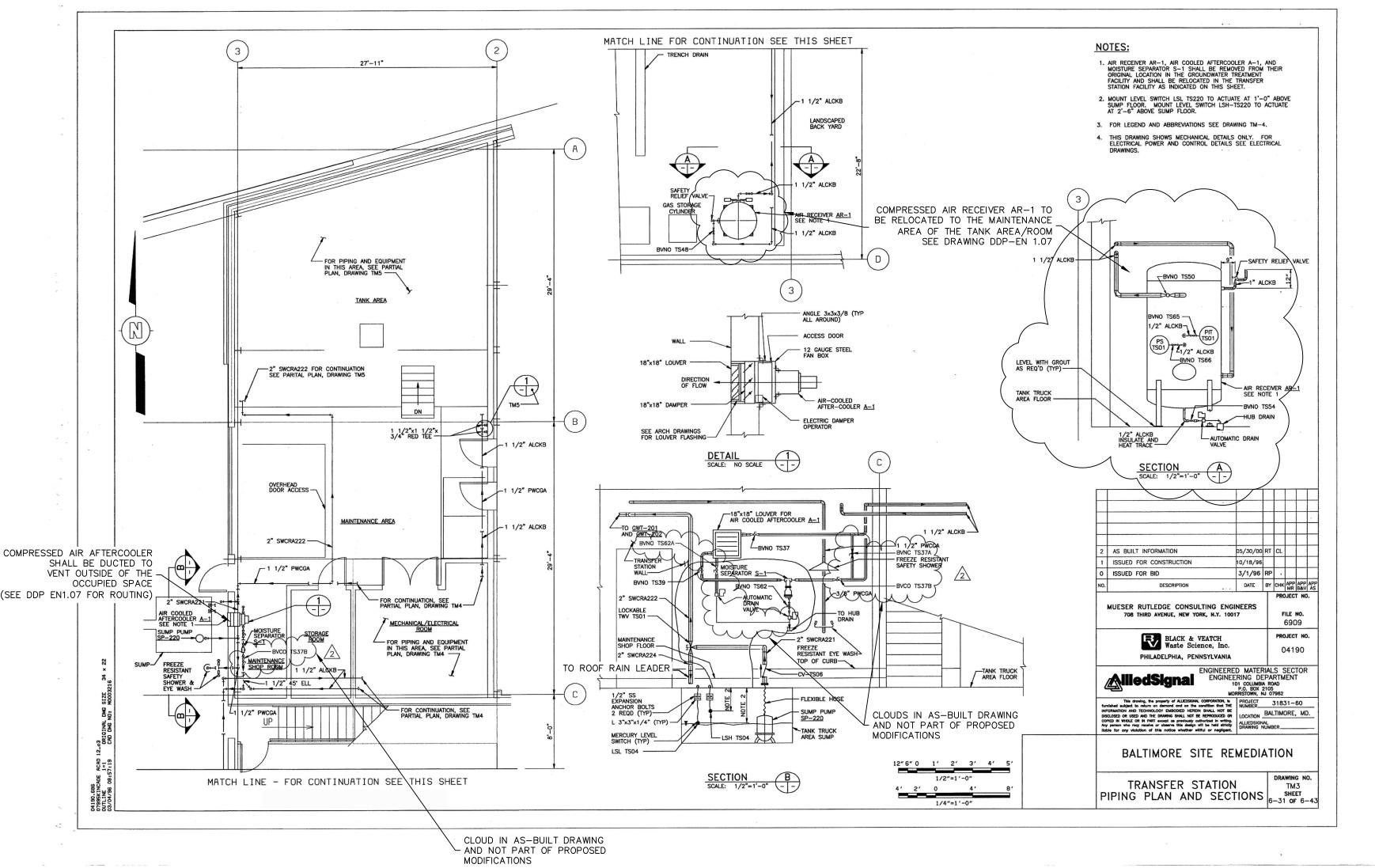
description REVISED DEPTH OF 6" PVC 11/4/2013 BELOW GEOMEMBRANE TO 24", UPDATED NOTES

PIEZOMETER, JUNCTION BOX AND OTHER

EN1.06.01

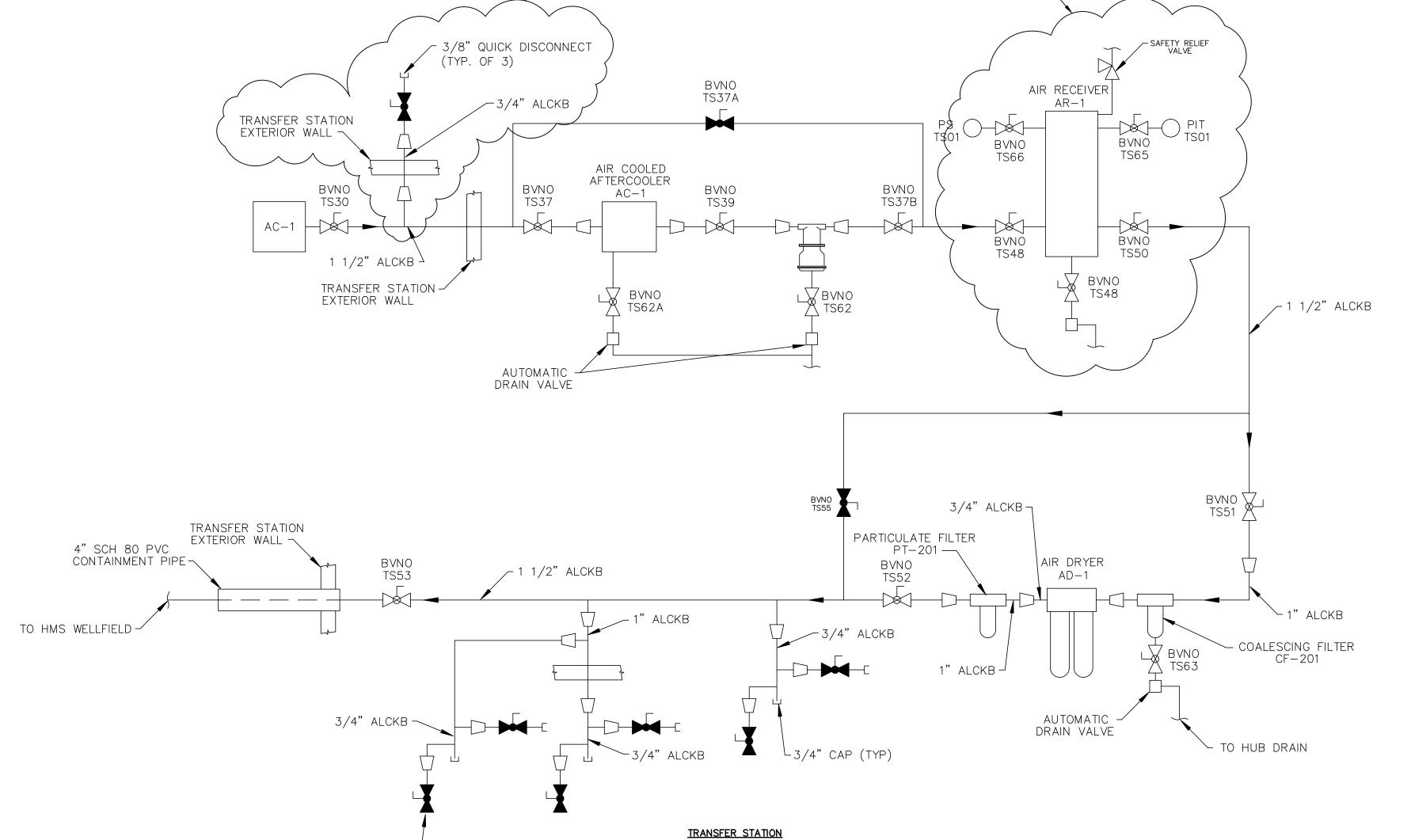






EXISTING PLAN, AIR RECEIVER AR-1 RELOCATION

EXISTING 22"x22" ZF SERIES TRANSITION FROM EXISTING 22"x22" DUCT TO FILTER EXISTING EF-203 RELOCATED BY\_ OTHERS (SEE DWG MECHANICAL / ELECTRICAL ROOM DDP M 4.07) RELOCATED TO MAINTENANCE ROOM \_ SEE DDP-EN01.07 LEVEL 1 CONTINGENT TEMPORARY AIR COMPRESSOR CONNECTION MODEL# ZC12 TEMPORARY — BAFFLES / 3/8" QUICK DISCONNECT (TYP. OF 3) AIR RECEIVER AR-1 BVNO TS65 BVNO TS66 AIR COOLED ROOM HAVC TEMPORARY PLAN AFTERCOOLER NOT TO SCALE AC-1TS39

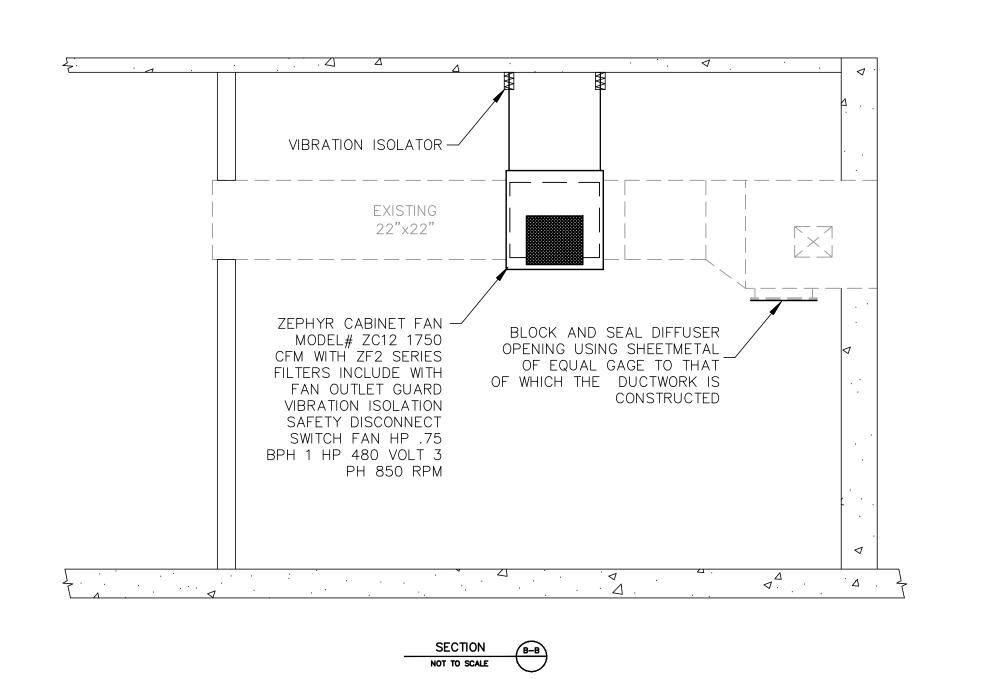


COMPRESSED AIR P&ID

1/2" BLOWDOWN -

(TYP. OF 3)

0199768-04



SCOPE OF WORK

1. CLOUDED SECTIONS REPRESENT MODIFICATIONS TO THE EXISTING TS. 2. UNIT HEATER REPLACEMENT - EXISTING GAS FIRED UNIT HEATERS TO BE REPLACED WITH ELECTRIC UNIT HEATERS. CONTRACTOR

SHALL PROVIDE ELECTRICAL POWER WIRING FROM EXISTING ADJACENT ELECTRICAL ROOM IN ACCORD WITH NEC WITH A

- DISCONNECT SWITCH AT EACH UNIT. 3. PROVIDE FAN FILTER UNIT TO MINIMIZE THE POTENTIAL FOR DUST INTRUSION IN THE ELECTRICAL ROOM. THE FAN FILTER UNIT SHALL BE CONNECTED TO THE EXISTING OUTSIDE AIR DUCT. CONTRACTOR SHALL PROVIDE ELECTRICAL POWER WIRING FROM EXISTING ADJACENT ELECTRICAL ROOM IN ACCORD WITH NEC WITH
- A DISCONNECT SWITCH AT UNIT. 4. MAKE MODIFICATIONS TO COMPRESSED AIR SYSTEM AS SPECIFIED.

TRANSFER STATION AND CONTINGENCY MODIFICATIONS

revision date

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Environmental Resources Management

EXELON BLDG &

PLAZA GARAGE

HARBOR POINT

AREA 1 PHASE 1

DDP SUBMISSION

8/1/13

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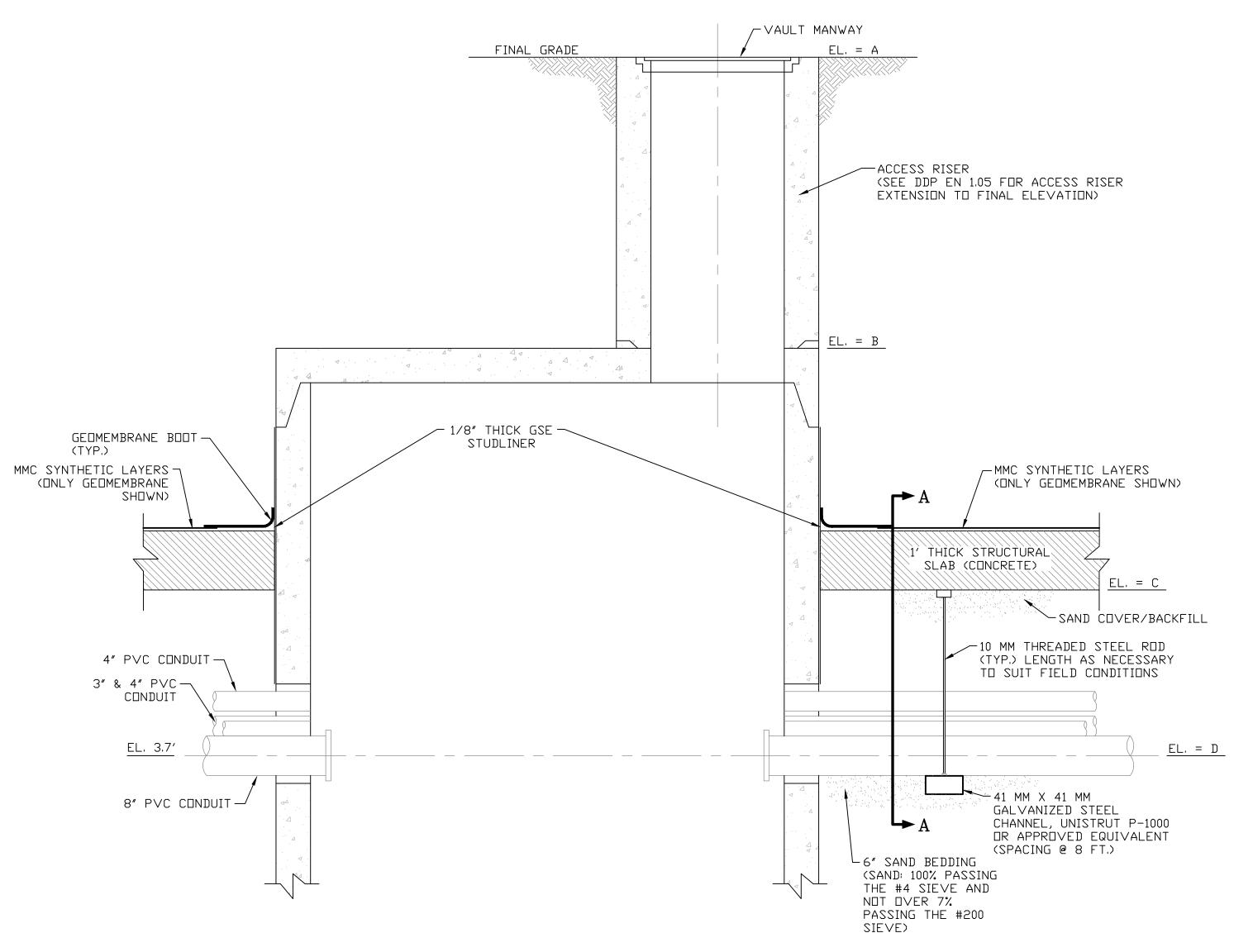
Phone 410 752 2759

owner/developer

consultants

drawn by: checked by: **AS SHOWN** scale: project number:

sheet number



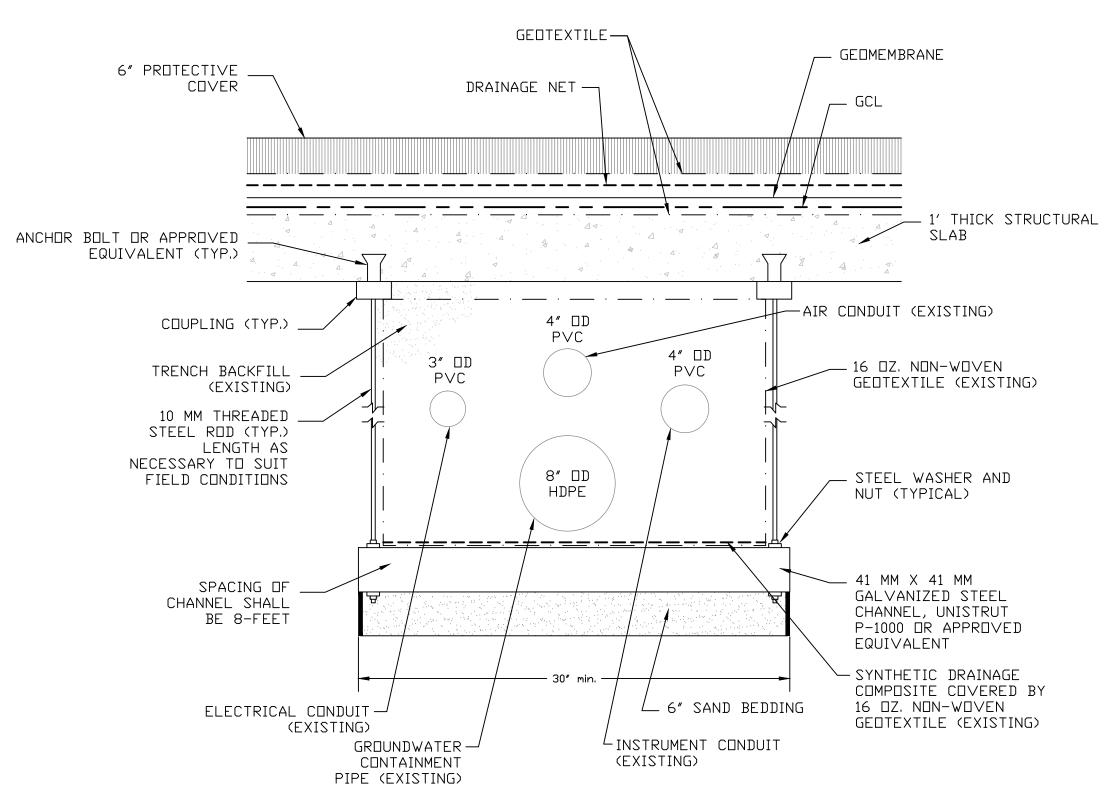
### 1. THE EXISTING ELEVATION SHALL BE FIELD VERIFIED.

- 2. THE FINAL GRADE ELEVATION SHALL CONFIRM WITH THE FINAL GRADING PLAN AND SHALL BE ADJUSTED TO FIELD CONDITIONS (SEE DDP EN 1.05 FOR MAXIMUM FILL OVER VAULT).
- 3. HMS CONDUITS BETWEEN MJ-1 AND V-11 WILL BE SUPPORTED ON STEEL PIPE

VAULT ID	ELEVATION (FT.)				
	Α	В	С	D	
V-11	17.0	10.83	6.5	4.5	
V-12	15.5	10.33	6.5	4.0	

HMS PIPE SUPPORT ON STRUCTURAL SLAB

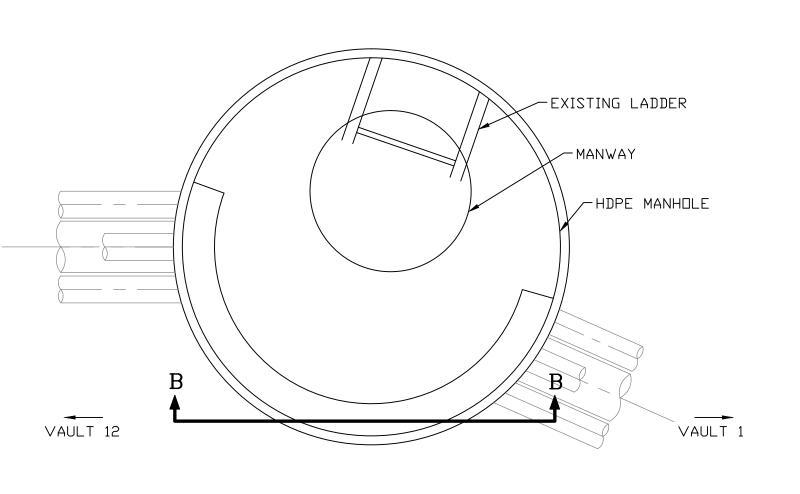
NOT TO SCALE

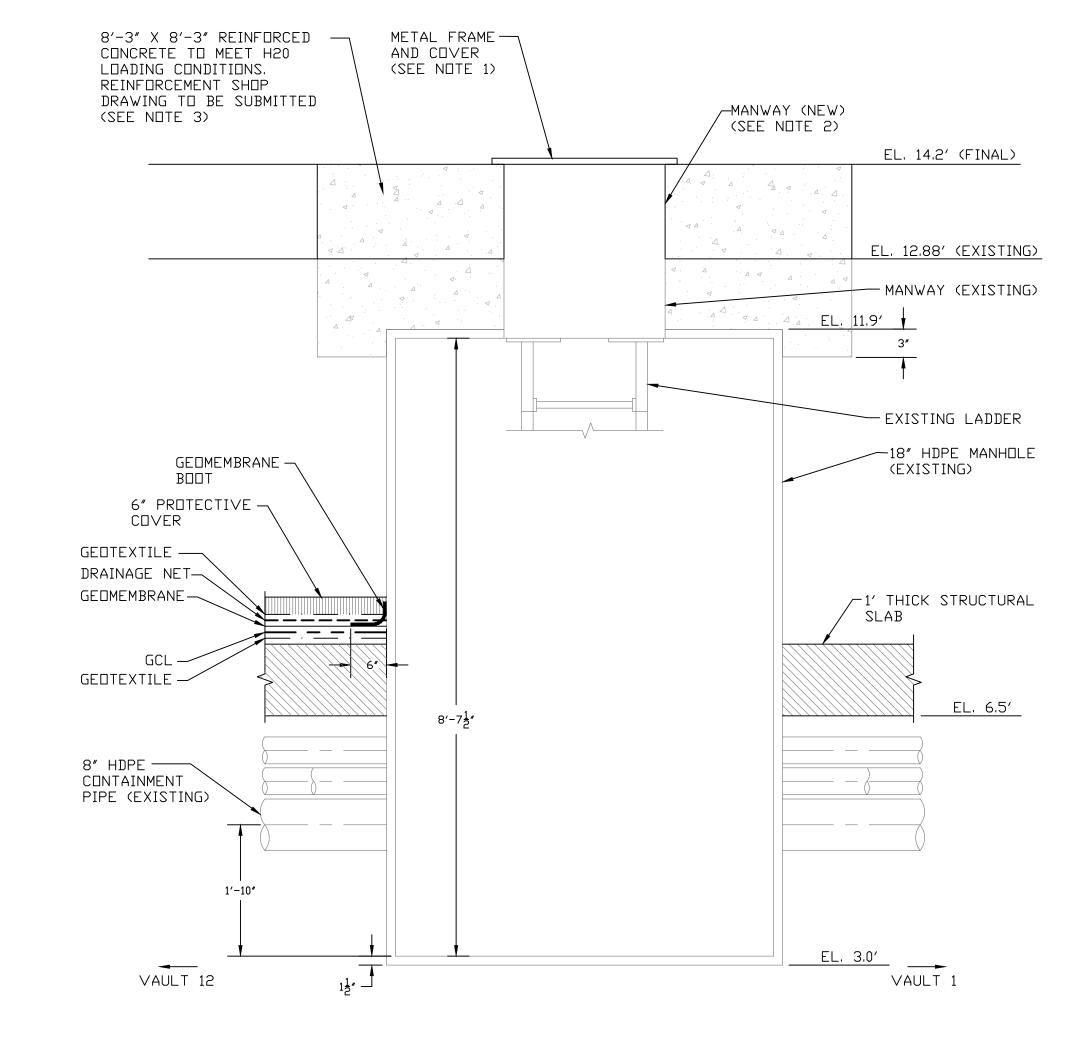


# 1. PIPE SUPPORT SYSTEM INCLUDING SAND BEDDING WILL ONLY BE CONSTRUCTED AT EVERY 8 FEET ALONG THE EXISTING HMS PIPING BETWEEN MJ-1 AND V-11.

- CONSTRUCTION SEQUENCE: 1. LOCATE AND MARK HMS CONDUIT ALIGNMENT BETWEEN MJ-1 AND V-11. MARK THE EDGES OF THE TRENCH ALONG THE ALIGNMENT.
- 2. MARK LOCATIONS FOR PIPE SUPPORT AT EVERY 8 FEET ALONG THE HMS
- CONDUIT BETWEEN MJ-1 AND V-11. 3. AT EACH MARKED LOCATION, HAND EXCAVATE THE SOIL COVER OUTSIDE OF
- EXISTING GEOTEXTILE WRAPPED TRENCH BACKFILL. 4. ALIGN THE STEEL CHANNEL UNDER THE EXISTING GEOTEXTILE.
- 5. ATTACH STEEL ROD TO THE CHANNEL. ATTACH TEMPORARY PROTECTIVE CAP ON THE EXPOSED ROD ENDS UNTIL ATTACHED TO THE STRUCTURAL SLAB.
- 6. BACKFILL DISTURBED AREAS WITH SAND AND HAND TAMPER THE BACKFILL.

### SECTION A-A NOT TO SCALE





# SECTION B-B

1. METAL FRAME AND COVER SHALL BE REMOVED AND STORED FOR REUSE. 2. A NEW HDPE MANWAY SHALL BE INSTALLED TO ADJUST TO THE RAISED ELEVATION AND SHALL MATCH IN SIZE, THICKNESS AND MATERIAL WITH THE EXISTING MANWAY. THE NEW MANWAY SHALL BE FIXED IN-PLACE

WITH REINFORCED CONCRETE AS SHOWN ON THE DETAIL. 3. THE NEW REINFORCED CONCRETE SHALL BE DOWELED TO THE EXISTING REINFORCED CONCRETE. REINFORCEMENT SHOP DRAWING INCLUDING CONNECTION TO THE EXISTING REINFORCED CONCRETE SHALL BE

MJ-1 HEIGHT ADJUSTMENT



Phone 410 752 2759 owner/developer Beatty Development Group 1300 Thames Street, Suite 10 Baltimore, MD 21231 P 410-332-1100 design consultant: Elkus Manfredi Architects Boston, MA 02210 F 617.426.7502 P 617.368.3311 structural engineer: Tadjer Cohen Edelson & Associates 1109 Spring Street Silver Spring, MD 20910 P 301-587-1820 mep & fp engineer: Vanderweil 625 N. Washington Street Alexandria, VA 22314-1913 P 703-683-9700 foundation engineers: Mueser Rutledge Consulting Engineers 14 Penn Plaza, 225 West 34th Street New York, NY 10122 P 917-339-9300 civil engineers: Rummel, Klepper & Kahl 81 Mosher Street Baltimore, MD 21217-4250 P 410-728-2900 landscape architect: Mahan Rykiel Associates 800 Wyman Park Drive, Suite 310 Baltimore, Maryland 21211 P 410-235-6001

EXELON BLDG & PLAZA GARAGE

Environmental Resources Management

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HARBOR POINT AREA 1 PHASE 1 DDP SUBMISSION 7/1/13

key plan

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revision date	description

MODIFICATIONS FOR PILE SUPPORTED HMS VAULTS AND PIPING IN DOCK STREET

project number: