

DOVER GREENS

DOVER GREENS, LLC
207 HUTCHINSON AVE., WINGDALE, NY 12594

UTILITY SERVICE & DISTRIBUTION PLAN PHASE I



SCHEDULE OF DRAWINGS:

SHEET NO.	DRAWING NO.	TITLE
1	TS	TITLE SHEET
2	PH-001	PHASING PLAN
3	ES-001	LEGEND & NOTES
4	ES-002	ELECTRICAL SUPPLY- SITE PLAN (FULL BUILD)
5	ES-003	FIBER OPTIC DATA - SITE PLAN (FULL BUILD)
6	ES-004	NATURAL GAS SUPPLY - SITE PLAN (FULL BUILD)
7	ES-101	PHASE 1 UTILITIES SUPPLY PLAN
8	ES-111	PHASE 1 PARTIAL SITE PLAN
9	ES-112	PHASE 1 PARTIAL SITE PLAN
10	ES-113	PHASE 1 PARTIAL SITE PLAN
11	ES-114	PHASE 1 PARTIAL SITE PLAN
12	ES-115	PHASE 1 PARTIAL SITE PLAN
13	ES-116	PHASE 1 PARTIAL SITE PLAN
14	ES-117	PHASE 1 PARTIAL SITE PLAN
15	ES-118	PHASE 1 PARTIAL SITE PLAN
16	ES-102	PHASE 1 SWITCHING LAYOUT & SCHEDULES
17	ES-701	SITE UTILITY DETAILS
18	ES-702	SITE UTILITY DETAILS
19	ES-703	SITE UTILITY DETAILS

REV #	DATE	REMARKS:	ISSUE #	DATE	ISSUED FOR:

REFERENCE SCALE

UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A
LICENSED PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF
SECTION 7209, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW.

FELLENZER III
ENGINEERING LLP

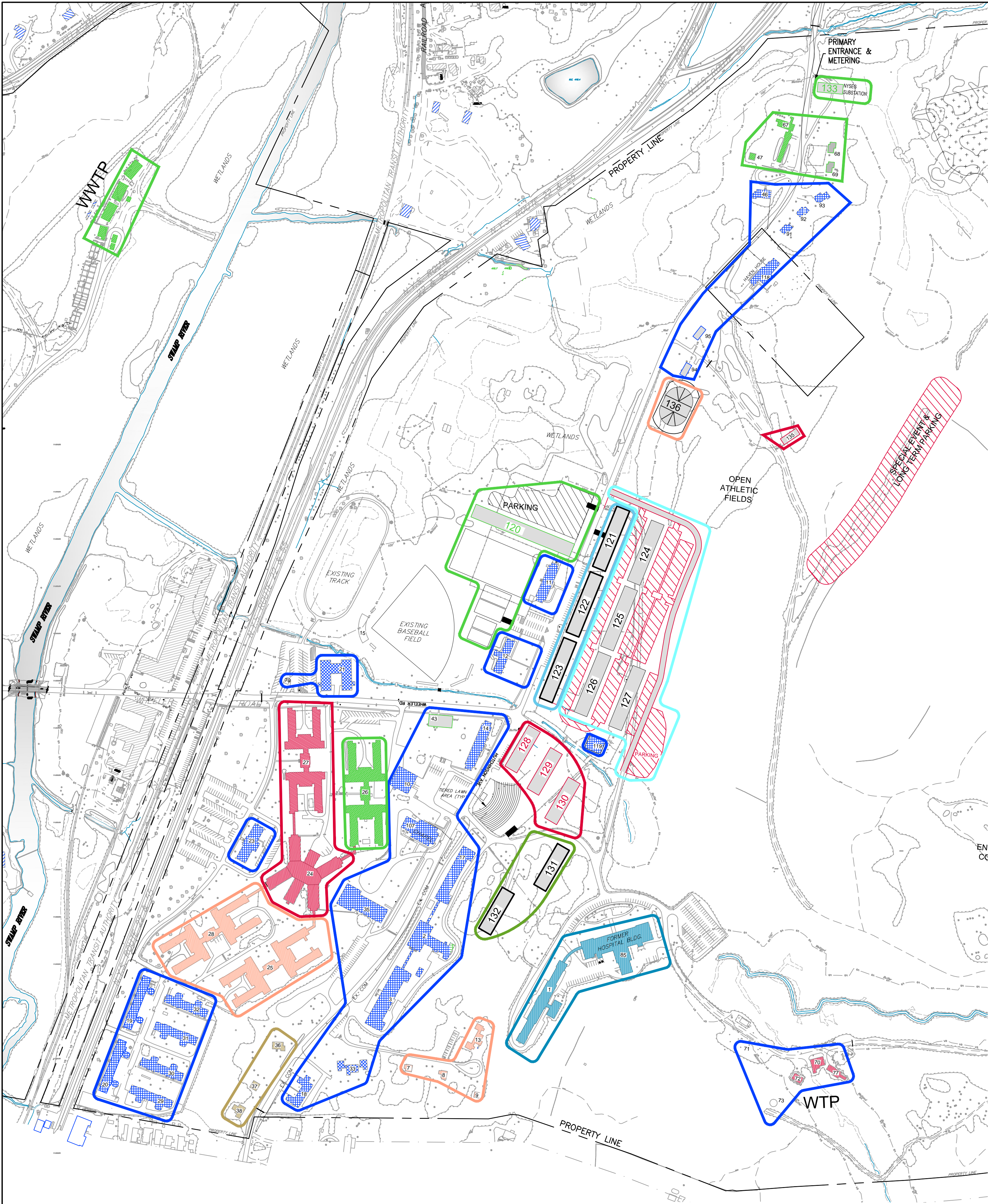
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SEAL:
PROGRESS PRINT
7 / 19 / 16
NOT FOR CONSTRUCTION

PROJECT TITLE: DOVER GREENS UTILITIES ROUTING TOWN OF DOVER, DUTCHESS COUNTY, NEW YORK				
DRAWING TITLE: TITLE SHEET				
DESIGNED BY: DLH	DRAWN BY: SAR	APPROVED BY PM: ACL	APPROVED BY PIC: JDF	DRAWING #: TS-1
DATE: 07/17/15	SCALE: AS SHOWN	FE PROJECT #: 15-153		PAGE 1 OF 19



1 PHASING PLAN (FULL BUILD OUT)
1"=250'

PHASE 1 CONSTRUCTION	No.	BUILDING/USE
	2	488 SEAT DINING HALL
	3	PARTNER ORG OFFICE BUILDING
	10	CAMPUS MINISTRY/OFFICE/CLASSROOM
	11	DORM
	12	DORM
	14	WEA - PARTNER ORG OFFICE BUILDING
	15	BASEBALL GRANDSTAND
	17	PARTNER ORG OFFICE BUILDING
	18	DAYCARE FACILITY
	19	BUSINESS INCUBATOR/RESEARCH
	20	BUSINESS INCUBATOR/RESEARCH
	21	PRIMARY SCHOOL
	23	UNIVERSITY ADMINISTRATION
	29	BUSINESS INCUBATOR/RESEARCH
	30	BUSINESS INCUBATOR/RESEARCH
	31	BUSINESS INCUBATOR/RESEARCH
	32	BUSINESS INCUBATOR/RESEARCH
	33	FAMILY CENTER
	35	ASSEMBLY HALL (SMITH HALL)
	43	100 SEAT DINING HALL (ENLARGE)

PHASE 2 CONSTRUCTION	No.	BUILDING/USE
	26	CLASSROOMS (ARCHITECTURE, ENGINEERING, MUSIC)
	47	STAFF GARAGE
	67	STAFF APARTMENTS (2 STORY)
	68	STAFF HOME (RELOCATED DUE TO SUBSTATION)
	69	STAFF HOME (RELOCATED DUE TO SUBSTATION)
	120*	DORMITORY

PHASE 3 CONSTRUCTION	No.	BUILDING/USE
	24	STUDENT UNION/LIBRARY/BOOK STORE
	27	CLASSROOMS (EDUCATION, THEOLOGY, LANGUAGE)
	128	DORMITORY
	129	DORMITORY
	130	DORMITORY
	135*	MAINTENANCE BUILDING

PHASE 4 CONSTRUCTION	7	STAFF HOME
	8	STAFF HOME
	9	STAFF HOME
	13	5 FAMILY STAFF HOUSE
	25	CLASSROOMS (BUSINESS, JOURNALISM)
	28	CLASSROOMS (ART, DESIGN, IT)
	136*	FIELD HOUSE

PHASE 5 CONSTRUCTION	121*	DORM
	122*	DORM
	123*	DORM

PHASE 6 CONSTRUCTION	36	STAFF HOME
	37	STAFF HOME
	38	STAFF HOME

PHASE 7 CONSTRUCTION	45	GARAGE TO BE DEMOLISHED
	99	SHED TO BE DEMOLISHED
	131*	DORMITORY
	132*	DORMITORY

PHASE 8 CONSTRUCTION	124*	DORMITORY
	125*	DORMITORY
	126*	DORMITORY
	127*	DORMITORY
	TBD	FUTURE STAFF HOUSING

PHASE 9 CONSTRUCTION	1	EDUCATION BUILDING (FUTURE MEDICAL COLLEGE)
	85	EDUCATION BUILDING (FUTURE MEDICAL COLLEGE)

UTILITIES	70	FILTER HOUSE - WATER SYSTEM
	71	1 MILLION GALLON CLEAR WELL
	72	AERATOR - WATER SYSTEM
	73	WATER TANK - WATER SYSTEM
	77	PUMP HOUSE - WATER SYSTEM
	133*	NYSEG SUBSTATION
	WWTP	WASTE WATER TREATMENT PLANT

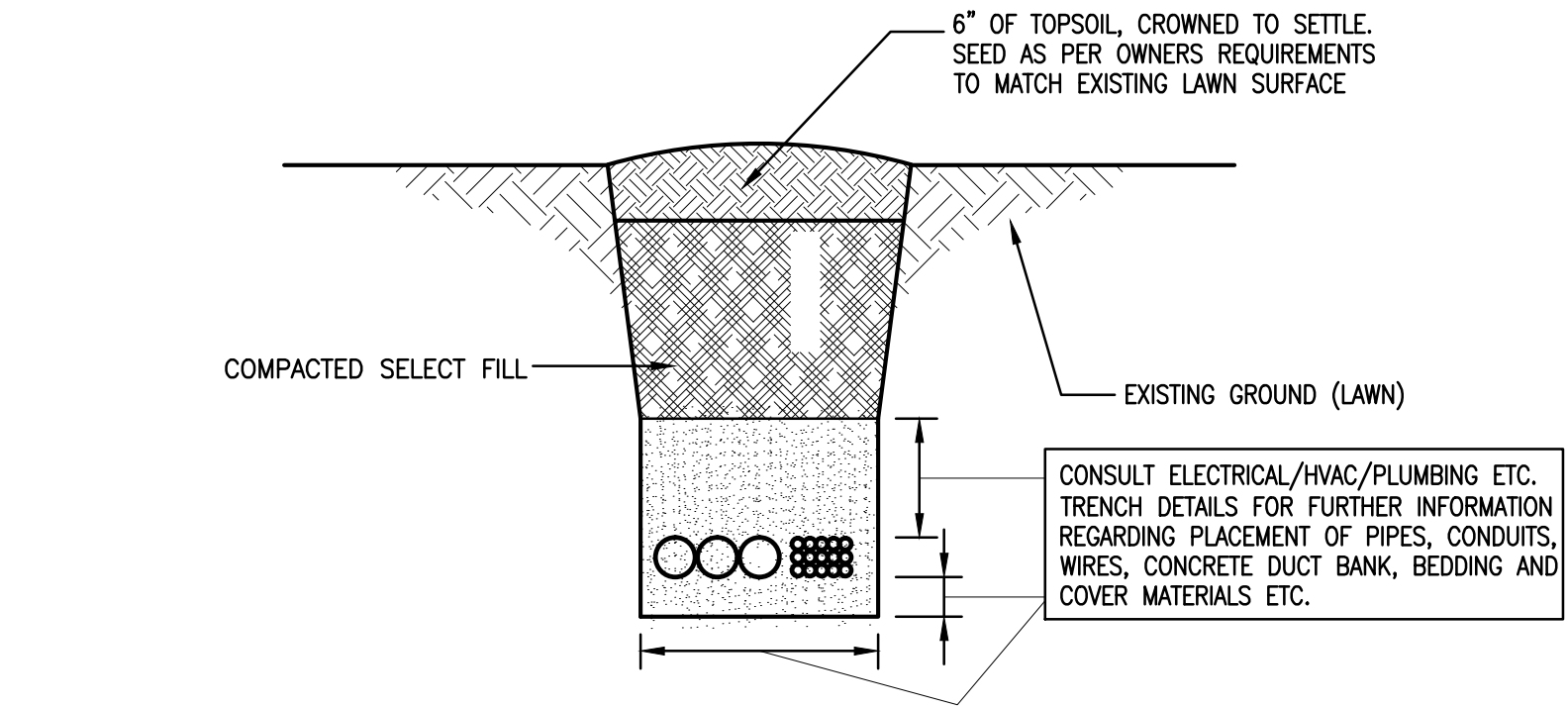
PHASING LEGEND

- PHASE 1 - EXISTING BUILDING
- PHASE 1 - NEW CONSTRUCTION
- PHASE 2 - EXISTING BUILDING
- PHASE 2 - NEW CONSTRUCTION
- PHASE 3 - EXISTING BUILDING
- PHASE 3 - NEW CONSTRUCTION
- PHASE 4 - EXISTING BUILDING
- PHASE 4 - NEW CONSTRUCTION
- PHASE 5 - EXISTING BUILDING
- PHASE 5 - NEW CONSTRUCTION
- PHASE 6 - EXISTING BUILDING
- PHASE 6 - NEW CONSTRUCTION
- PHASE 7 - EXISTING BUILDING
- PHASE 7 - NEW CONSTRUCTION
- PHASE 8 - EXISTING BUILDING
- PHASE 8 - NEW CONSTRUCTION
- PHASE 9 - EXISTING BUILDING
- PHASE 9 - NEW CONSTRUCTION

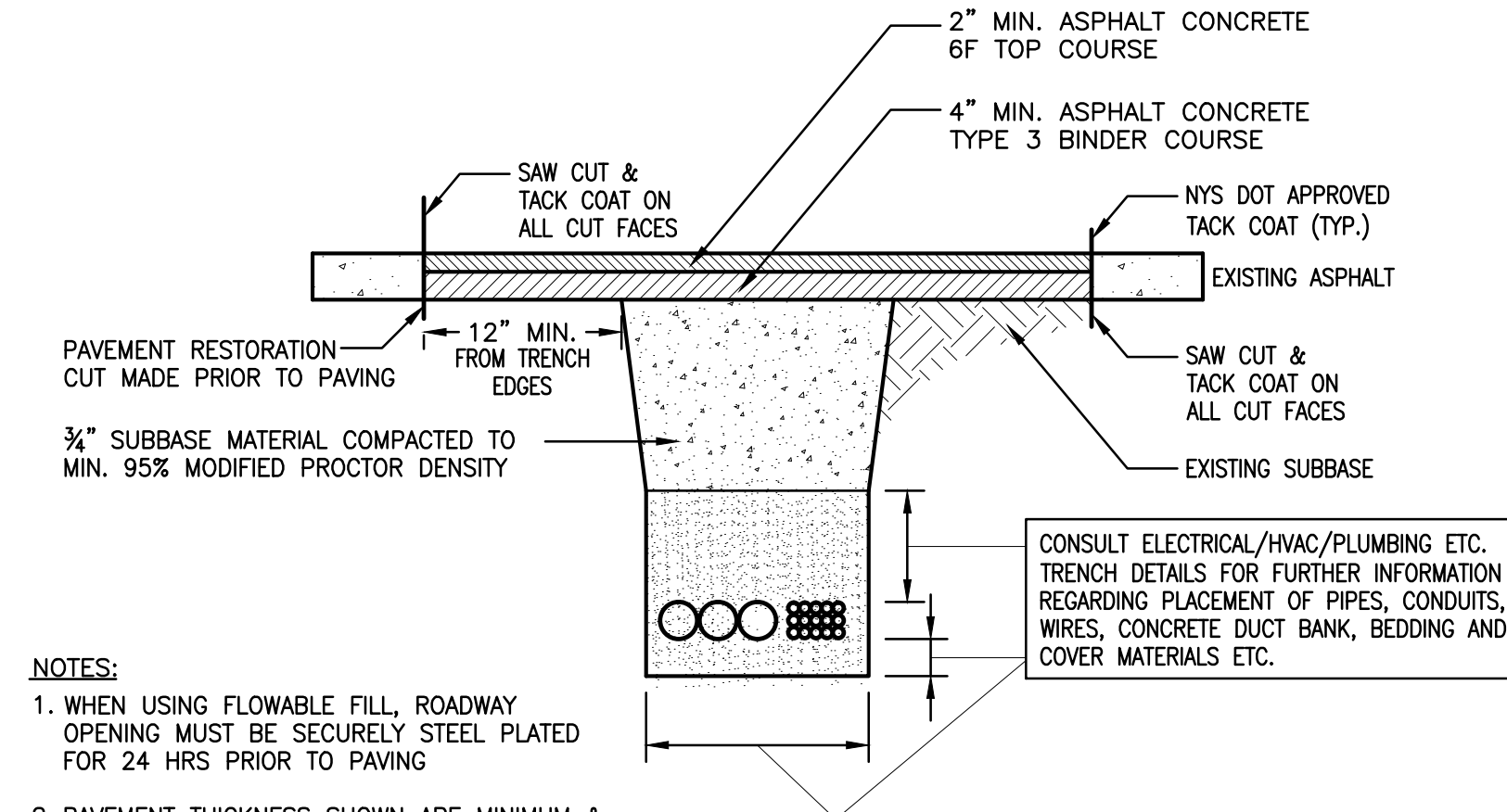
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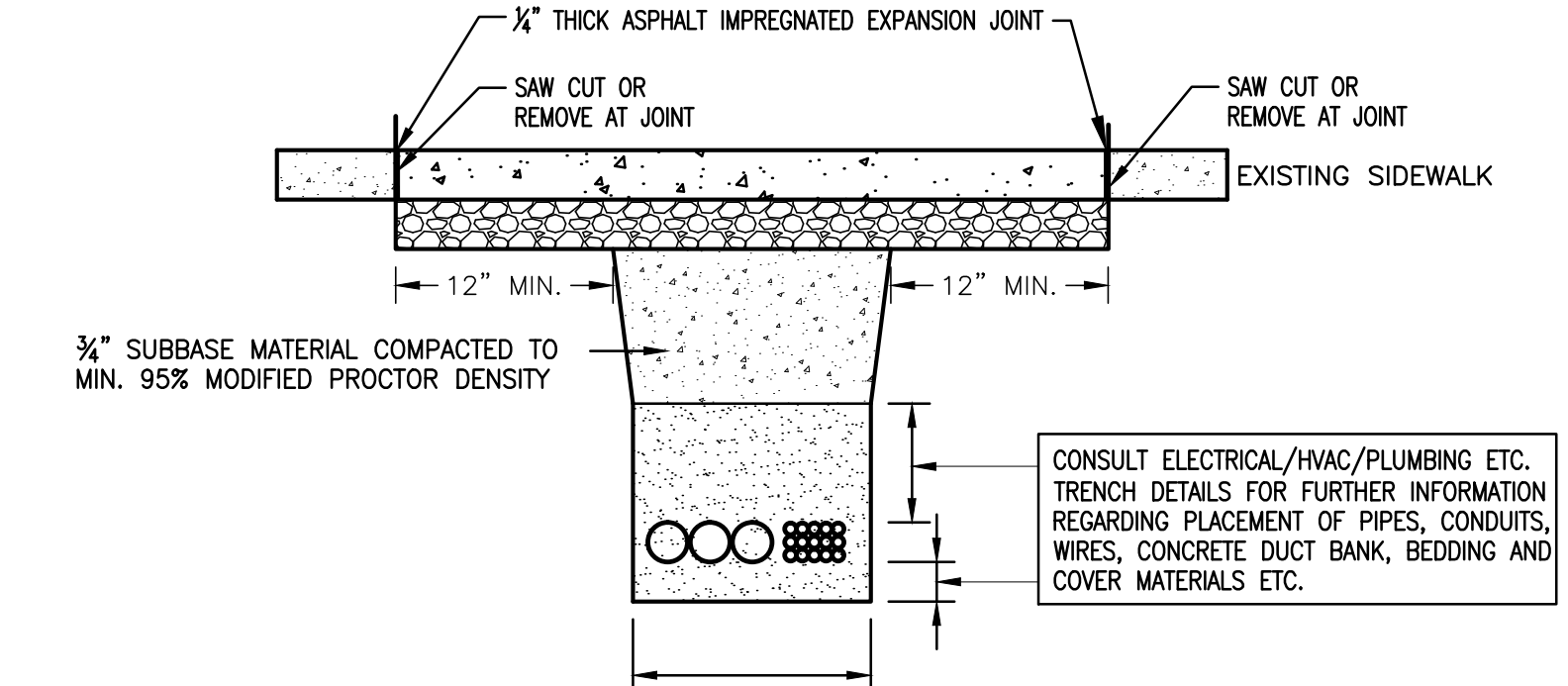


1 **TRENCH & TRENCH RESTORATION**
FOR TRENCH OPENINGS IN GRASSED AREA
N.T.S.



- NOTES:**
1. WHEN USING FLOWABLE FILL, ROADWAY OPENING MUST BE SECURELY STEEL PLATED FOR 24 HRS PRIOR TO PAVING
 2. PAVEMENT THICKNESS SHOWN ARE MINIMUM & FINAL DETERMINATION IS TO BE DETERMINED BY ENGINEER
- NOTES:**
1. IN AREAS WHERE PAVEMENT IS REMOVED FOR TRENCHING, CONTRACTOR SHALL NEATLY SAW-CUT PAVEMENT THROUGH ASPHALTIC LAYERS PRIOR TO REMOVAL, AS NOTED ABOVE
 2. EXISTING PAVEMENT THAT IS SAW-CUT SHALL BE COATED AND SEALED ALONG ALL CUTS PRIOR TO INSTALLATION OF MATERIALS NEXT TO THE PAVEMENT REMAINING.

2 **TRENCH & TRENCH RESTORATION**
FOR TRENCH OPENINGS IN PAVEMENT
N.T.S.



3 **TRENCH & TRENCH RESTORATION**
FOR TRENCH OPENINGS IN SIDEWALKS
N.T.S.

E&S NOTES:

1. THE OPERATOR SHALL ASSURE THAT THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS PROPERLY AND COMPLETELY IMPLEMENTED.
 2. CONSTRUCTION VEHICLES AND EQUIPMENT ENTERING AND EXITING THE SITE MUST ENTER AND EXIT AT THE STABILIZED CONSTRUCTION ENTRANCE LOCATION(S) ONLY. MEASURES MUST BE TAKEN TO PREVENT SOIL AND SEDIMENT FROM A VEHICLE'S TIRES FROM BEING DEPOSITED ONTO THE PUBLIC ROADS.
 3. UNTIL THE SITE ACHIEVES FINAL STABILIZATION, THE OPERATOR SHALL ASSURE THAT THE BEST MANAGEMENT PRACTICES ARE IMPLEMENTED, OPERATED, AND MAINTAINED PROPERLY AND COMPLETELY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL BEST MANAGEMENT PRACTICE FACILITIES. THE OPERATOR WILL MAINTAIN AND MAKE AVAILABLE TO THE TOWN OF DOVER COMPLETE, WRITTEN INSPECTION LOGS OF ALL THOSE INSPECTIONS. ALL MAINTENANCE WORK, INCLUDING CLEANING, REPAIR, REPLACEMENT, REGRADING, AND RESTABILIZATION SHALL BE PERFORMED IMMEDIATELY.
 4. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION.
 5. BEFORE INITIATING ANY REVISIONS TO THE APPROVED EROSION AND SEDIMENT CONTROL PLAN OR REVISIONS TO OTHER PLANS THAT MAY AFFECT THE EFFECTIVENESS OF THE APPROVED E&S CONTROL PLAN, THE OPERATOR MUST RECEIVE APPROVAL OF THE REVISIONS FROM THE TOWN OF DOVER.
 6. THE OPERATOR SHALL ASSURE THAT AN EROSION AND SEDIMENT CONTROL PLAN HAS BEEN PREPARED, APPROVED BY THE TOWN OF DOVER, AND IS BEING IMPLEMENTED AND MAINTAINED FOR ALL SOIL AND/OR ROCK SPOIL AND BORROW AREAS, REGARDLESS OF THEIR LOCATIONS.
 7. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES.
 8. THE E&S CONTROL PLAN MAPPING MUST DISPLAY A NY ONE CALL SYSTEM INCORPORATED SYMBOL INCLUDING THE SITE IDENTIFICATION NUMBER. (THIS IS A NUMBERED SYMBOL NOT A NOTE.)
 9. EROSION AND SEDIMENT BMPS (BEST MANAGEMENT PRACTICES) MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THE TRIBUTARY AREAS OF THOSE BMPS.
 10. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE, THE OPERATOR SHALL STABILIZE ANY AREAS DISTURBED BY THE ACTIVITIES. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE SPECIFIED RATES. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE REDISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY VEGETATIVE STABILIZATION SPECIFICATIONS. DISTURBED AREAS WHICH ARE AT FINISHED GRADE OR WHICH WILL NOT BE REDISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE PERMANENT VEGETATIVE STABILIZATION SPECIFICATIONS.
 11. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPS MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT CONTROL BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING, AND RETENING, MUST BE PERFORMED IMMEDIATELY. IF EROSION AND SEDIMENT CONTROL BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
 12. SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN LANDSCAPED AREAS OUTSIDE OF STEEP SLOPES, WETLANDS, FLOODPLAINS OR DRAINAGE SWALES AND IMMEDIATELY STABILIZED, OR PLACED IN TOPSOIL STOCKPILES.
 13. THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE, OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES. THE CONTRACTOR SHALL NOT ILLEGALLY BURY, DUMP, OR DISCHARGE ANY BUILDING MATERIAL OR WASTES AT THE SITE.
- BMPS — AFTER DISTURBANCE**
1. WITHIN FOURTEEN (14) DAYS OF ACHIEVING FINAL SITE STABILIZATION, TEMPORARY EROSION AND SEDIMENT BMPS CONTROLS MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OF THE BMPS MUST BE STABILIZED IMMEDIATELY.
 2. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.

LAWN RESTORATION SCHEDULE & NOTES

	SPECIES	LBS / 1,000 SQFT
PERMANENT SEED MIXTURE	TALL FESCUE	1
	KENTUCKY BLUEGRASS	3
	PERENNIAL RYEGRASS	1

NOTE: OPTIMUM PERMANENT SEEDING SCHEDULE: SPRING OR EARLY FALL

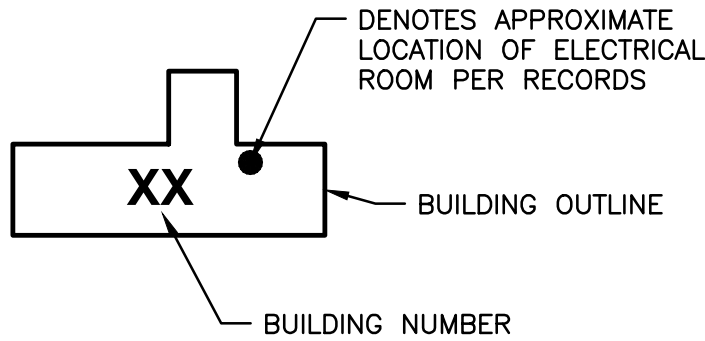
1. REMOVE ALL DEBRIS (STICKS, STONES, ETC.) FROM AREA, AND PREPARE SOIL BY TILLING TO A 3"-4" DEPTH.
2. RAKE SURFACE LEVEL TO PREVENT WATER FROM POOLING IN ONE AREA. AREAS LOCATED ON A SLOPE SHALL BE RAKED PARALLEL WITH CONTOURS TO PREVENT MOISTURE RUN-OFF.
3. FERTILIZER SHALL BE APPLIED TO THE TILLED SOIL AT RATE OF 6 LBS. PER 1,000 sq.ft. FERTILIZER SHALL BE A COMMERCIAL 10-0-10 MIXTURE.
4. AREA SHALL BE LIGHTLY SPRAYED WITH WATER TO ALLOW SOIL TO SETTLE.
5. PERMANENT SEED MIXTURE SHALL BE SPREAD BY HAND, LAWN SPREADER OR MECHANICAL SEEDER (AS APPROPRIATE FOR SIZE OF AREA) AT A RATE OF 5 lbs. OF SEED MIXTURE PER 1,000 sq.ft. DO NOT OVERSEED, OR OVER CROWDING OF THE SEEDLINGS MAY OCCUR, AND HAMPER PROPER LAWN GROWTH.
6. LIGHTLY COVER SEEDED AREA WITH 1/4"-3/4" OF SOIL. (ROLLING OF SEEDBED TO PROMOTE SOIL TO SEED CONTACT IS OPTIONAL) AND COVER WITH A MULCH OF HAY OR STRAW AT A RATE OF 90 lbs (APPROX 2 BALES) PER 1,000 sq.ft.
7. SEEDED AREA SHALL BE COVERED WITH A MULCH OF STRAW OR HAY AT THE RATE OF 90 lbs. (APPROX. 2 BALES) PER 1,000 S.F. TO HELP MAINTAIN SOIL MOISTURE LEVEL.
8. LIGHTLY WATER SEED BED DAILY TO KEEP IT MOIST, WHILE TAKING CARE NOT TO SATURATE.
9. NEW GRASS SHALL NOT BE MOWED UNTIL IT HAS REACHED A MINIMUM HEIGHT OF 2"-2 1/2".
10. PRACTICE REGULAR MAINTENANCE & WATER REGULARLY AS CONDITIONS REQUIRE.

SITE - ELECTRICAL: GENERAL NOTES:

1. CONTRACTOR SHALL ABIDE BY THEIR OWN EXPENSE TO THE LATEST EDITIONS OF ALL OSHA REGULATIONS AND REQUIREMENTS.
2. THERE SHALL BE NO CLAIMS AGAINST THE OWNER FOR WORK STOPPAGES DUE TO ACTS OF GOD, WEATHER CONDITIONS, STOP WORK ORDERS (VERBAL AND/OR WRITTEN), UNDERESTIMATION OF WORK, ESTIMATED QUANTITIES, MATERIALS, SUPPLIES, TOOLS, CORRECTION OF SAFETY PROBLEMS, OR ANY OTHER REASON.
3. ALL QUANTITIES SHOWN ON THE DRAWING ARE ESTIMATED QUANTITIES ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY AND ASCERTAIN ALL EXISTING CONDITIONS, DIMENSIONS AND QUANTITIES.
4. ALL WORK SHALL BE PERFORMED BY THOSE WHO ARE SKILLED IN THEIR TRADE. JOURNEYMEN MECHANICS, TO PRODUCE A FIRST CLASS JOB. THE CONTRACTOR IS ADVISED THAT WORK DEEMED UNSUITABLE, UNACCEPTABLE, SECOND CLASS IN NATURE BY THE PROJECT ENGINEER SHALL BE DEEMED NON-ACCEPTABLE AND THE CONTRACTOR SHALL REMOVE, REPLACE, RE-DO, TO THE SATISFACTION OF THE OWNER, THE UNACCEPTABLE WORK AT NO ADDITIONAL COST TO THE OWNER. THERE SHALL BE NO ADDITIONAL CLAIMS AGAINST THE OWNER FOR THE ABOVE.
5. ROAD WAYS, BUILDING EMERGENCY ACCESS AREAS, AND BUILDING ENTRY AND EXITS AREAS ARE TO BE KEPT CLEAR AT ALL TIMES.
6. CONTRACTOR SHALL USE DIG SAFELY NY "DIAL 811".
7. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY AND ASCERTAIN IN THE FIELD, ALL EXISTING UTILITIES, EXISTING CONDITIONS, FIELD MEASUREMENTS, DIMENSIONS, AND QUANTITIES, RELATED TO THE PROJECT.
8. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY AND ASCERTAIN THE LOCATION, DEPTH, DIRECTION, AND SIZE, OF ANY AND ALL UTILITIES EXISTING IN THE GENERAL VICINITY OF THE WORK AREA.
9. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY UTILITY DISRUPTED, BROKEN, OR OTHERWISE RENDERED NON-FUNCTIONAL DUE TO THE WORK PERFORMED AT NO ADDITIONAL COST TO THE OWNER DURING THIS COURSE OF WORK.
10. THE CONTRACTOR SHALL IDENTIFY ANY NON-FUNCTIONING UTILITY/SYSTEM, PRIOR TO THE START OF WORK TO THE PROJECT ENGINEER. IDENTIFICATION OF SUCH AFTER THE START OF WORK SHALL BE DEEMED AS DISTURBED/DAMAGED BY THE CONTRACTOR AND SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
11. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY SUPPORT ANY UTILITY ENCOUNTERED IN THE COURSE OF THIS WORK.
12. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT AT THE CONTRACTOR'S EXPENSE.
13. THE CONTRACTOR SHALL SECURE ALL EXTERIOR WORK AND STAGING AREAS WITH ACCEPTABLE FENCING.
14. THE CONTRACTOR SHALL NOT LEAVE THE WORK AREA UNATTENDED FOR ANY REASON, UNLESS SAFETY PARTITIONS, SAFETY FENCING AND COVERING FOR ALL OPEN TRENCHES ARE INSTALLED AND SECURED.
15. THE CONTRACTOR SHALL LEAVE THE WORK SITE CLEAN AND SECURED AT THE END OF EACH WORKING DAY. THE WORK SITE SHALL NOT BE LEFT UNATTENDED AT ANY TIME BY THE CONTRACTOR, UNLESS THE WORK AREA IS PROPERLY SECURED BY THE CONTRACTOR.
16. THE CONTRACTOR IS ADVISED THAT THEY ARE SOLELY RESPONSIBLE FOR THE SAFETY OF THE WORK SITE AND SHALL TAKE ALL ACTIONS TO ELIMINATE ANY SAFETY HAZARDS THAT SHALL EXIST AND POSE A THREAT OF HARM TO STUDENTS, EMPLOYEES OF THE OWNER, EMPLOYEES OF THE CONTRACTOR OR OTHER(S). IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO TAKE IMMEDIATE ACTION TO ALLEVIATE ANY SAFETY HAZARD THAT MAY EXIST WITHOUT DIRECTION FROM THE OWNER OR THEIR DESIGNEE.
17. CONTRACTOR SHALL SAW CUT WITH PROPER BLADE ANY ROADS, CURBS AND SIDEWALKS ENCOUNTERED IN THE COURSE OF THIS WORK.
18. ALL HOLES SHALL BE CORED DRILLED WITH DIAMOND CORE BITS.
19. CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE ANY AND ALL DEBRIS FROM THE SITE DAILY AND DISPOSE OF SAME OFF THE SITE IN ACCORDANCE WITH ALL LOCAL AND STATE REGULATIONS.
20. THE CONTRACTOR SHALL MAINTAIN THE WORK SITE IN A NEAT AND CLEAN CONDITION. THE WORK SITE SHALL BE CLEANED DAILY OF CONSTRUCTION DEBRIS
21. GRADE AND RE-SEED AREAS DAMAGED BY TRENCHING AND CONSTRUCTION VEHICLES
22. GRADING AND RE-SEEDING TO INCLUDE; TOP SOIL, FERTILIZER, SEEDS AND PROTECTIVE BEDDING.
23. SUB-GRADE FILL TO BE COMPACTED TO 95% PROCTOR DENSITY
24. PROVIDE PROTECTIVE MEASURES FOR ALL TREES, BUSHES AND DECORATIVE SHRUBBERY. CONTRACTOR TO REPLACE ALL VEGETATION DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.

LEGEND

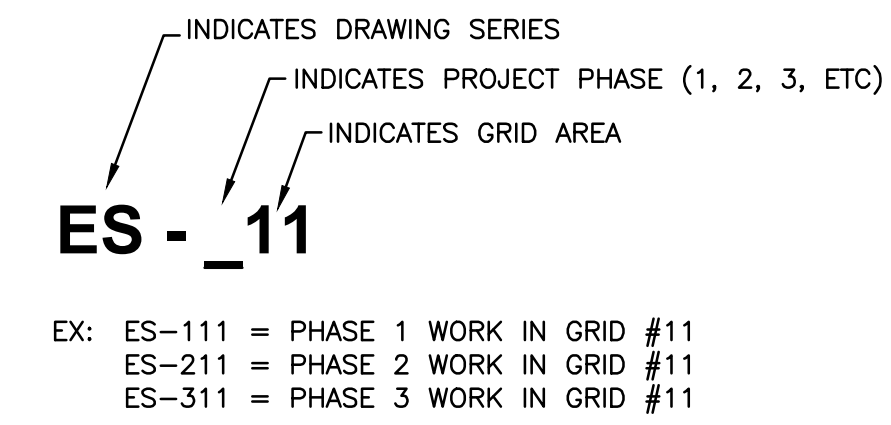
- FO FIBER OPTIC LINE — PHASE 1
- FO FIBER OPTIC LINE — FUTURE PHASES
- NUGP PRIMARY ELECTRIC — PHASE 1
- NUGP PRIMARY ELECTRIC — FUTURE PHASES
- NUGS SECONDARY ELECTRIC — PHASE 1
- NUGS SECONDARY ELECTRIC — FUTURE PHASES
- P TEMPORARY OVERHEAD PRIMARY SUPPLY
- P TEMPORARY PRIMARY UNDERGROUND SUPPLY
- UGE TEMPORARY SECONDARY UNDERGROUND SUPPLY
- OH TEMPORARY OVERHEAD ELECTRIC (SECONDARY)
- EX. OH EXISTING OVERHEAD ELECTRIC (PRIMARY)
- EX. COM EXISTING COMMUNICATIONS LINE
- COM EXISTING COMMUNICATIONS LINE
- EXISTING UTILITY POLE
- EXISTING UTILITY POLE WITH MOUNTED TRANSFORMER
- UTILITY POLE
- UTILITY POLE WITH MOUNTED TRANSFORMER
- T TRANSFORMER — PHASE 1
- T TRANSFORMER — FUTURE PHASES
- E ELECTRIC MANHOLE — PHASE 1
- E ELECTRIC MANHOLE — FUTURE PHASES
- FIBER OPTIC PULLBOX — PHASE 1
- FIBER OPTIC PULLBOX — FUTURE PHASES
- RAW WATER LINE
- DOMESTIC WATER LINE
- PHASE 1 BORDER




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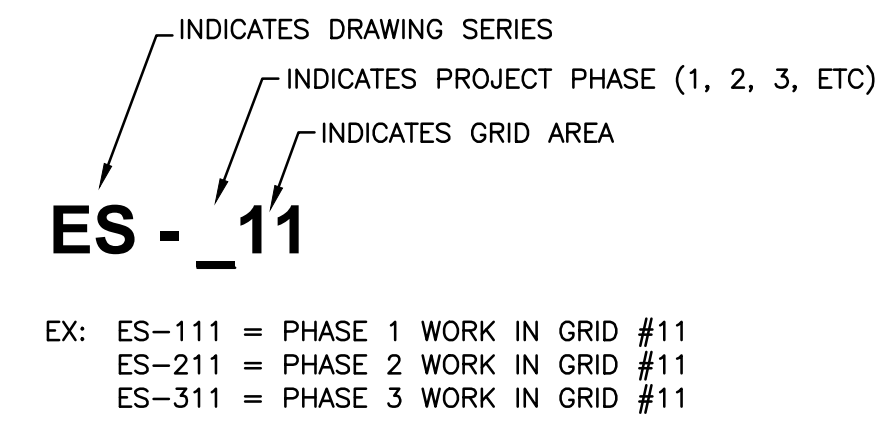


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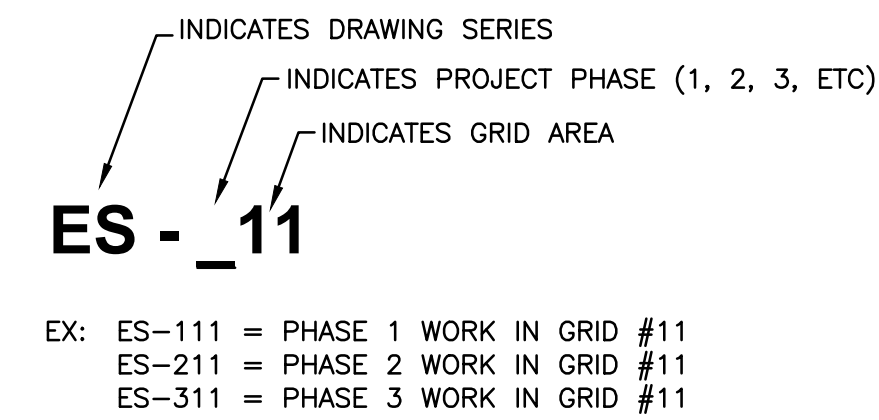


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<p>UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW.</p>							
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <h1 style="margin: 0;">FELLENZER</h1> <h2 style="margin: 0;">ENGINEERING LLP</h2> </div> <div style="text-align: right;"> www.fellp.com </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="width: 45%;"> <p>22 Mulberry St., Suite 2A, Middletown, NY 10940 t 845-343-1481 fx 845-343-4986</p> </div> <div style="width: 45%; text-align: right;"> <p>181 Church St., Suite 100, Poughkeepsie, NY 12601 t 845-454-9704 fx 855-320-8735</p> </div> </div>							
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		<p>FIBER OPTIC DATA – SITE PLAN</p>					
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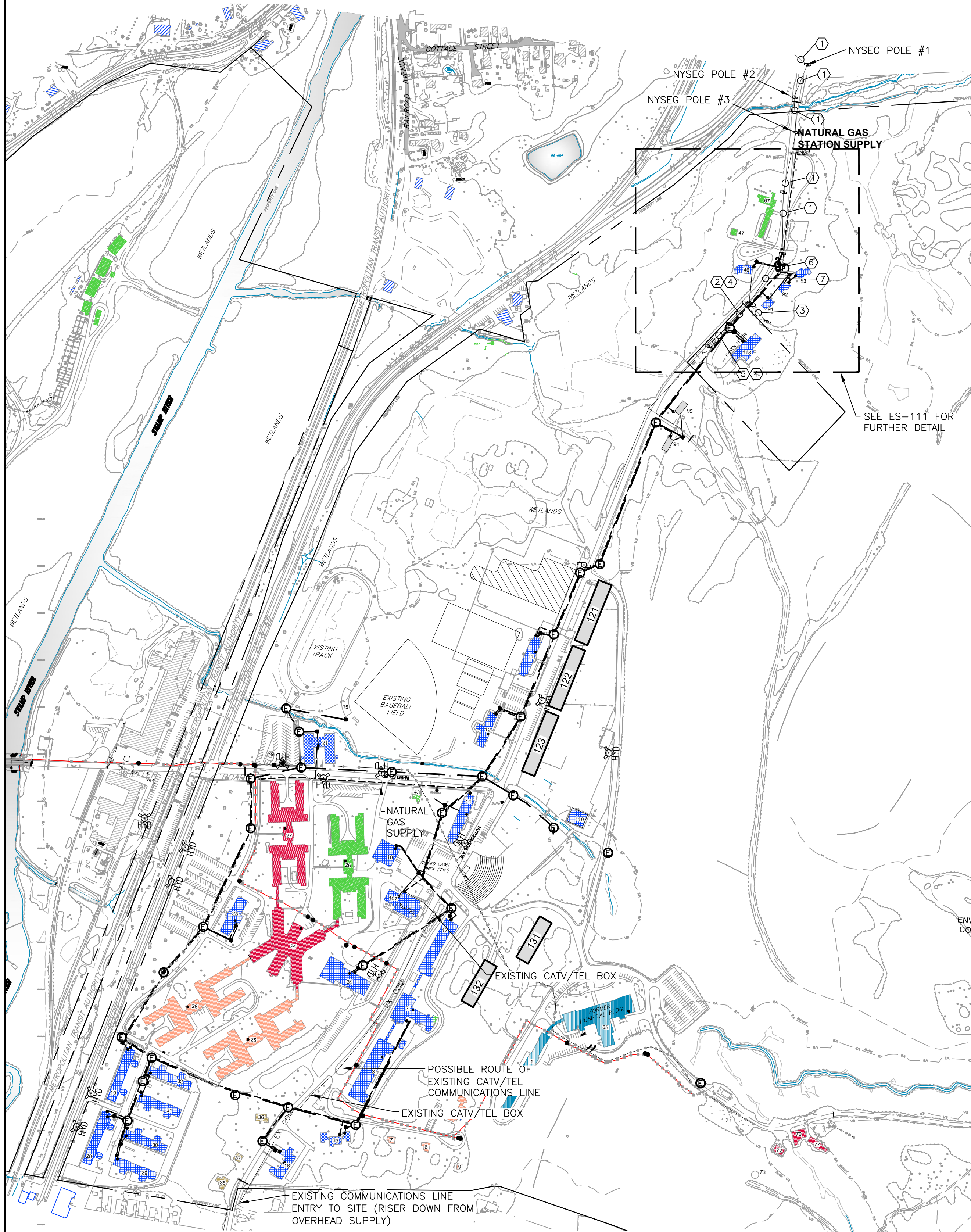


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<div style="text-align:center; font-size: 2em; margin-bottom: -10px;">FELLENZER III</div> <div style="text-align:center; font-weight: bold;">ENGINEERING LLP</div> <div style="float:right; width: 60%;">www.fellp.com</div> <div style="clear:both;"></div> <div style="display:flex; justify-content:space-between;"><div style="width:45%;"><p>22 Mulberry St., Suite 2A, Middletown, NY 10940 t 845-343-1481 fx 845-343-4986</p></div><div style="width:45%; text-align:right;"><p>181 Church St., Suite 100, Poughkeepsie, NY 12601 t 845-454-9704 fx 855-320-8735</p></div></div>															
SEAL: <div style="color:red; transform: rotate(-45deg); position: absolute; left:-150px; bottom:-150px; opacity:.5;">PROGRESS PRINT 7 / 19 / 16 NOT FOR CONSTRUCTION</div>	<div style="text-align:center;">DOVER GREENS UTILITIES ROUTING</div> TOWN OF DOVER, DUTCHESS COUNTY, NEW YORK <div style="margin-top:10px;">DRAWING TITLE: NATURAL GAS SUPPLY — SITE PLAN</div> <table border="1" style="width:100%; border-collapse: collapse;"><tr><td>DESIGNED BY: DLH</td><td>DRAWN BY: SAR</td><td>APPROVED BY PM: ACL</td><td>APPROVED BY PIC: JDF</td></tr><tr><td>DATE: 07/17/15</td><td>SCALE: AS SHOWN</td><td colspan="2">FE PROJECT #: 15—153</td></tr></table> <div style="float:right; text-align:right; padding-right: 20px;">DRAWING #: ES-004 PAGE 6 OF 19</div>							DESIGNED BY: DLH	DRAWN BY: SAR	APPROVED BY PM: ACL	APPROVED BY PIC: JDF	DATE: 07/17/15	SCALE: AS SHOWN	FE PROJECT #: 15—153	
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DATE: 07/17/15	SCALE: AS SHOWN	FE PROJECT #: 15—153													



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1 PHASE 1 UTILITIES SUPPLY PLAN
1"=300'

KEYNOTES

- EXISTING 13.2 KV ABOVE GROUND PRIMARY SUPPLY
- EXISTING 13.2 KV ABOVE GROUND PRIMARY SUPPLY & EXISTING TELECOMMUNICATIONS/CABLE LINE
- EXISTING TELECOMMUNICATIONS/CABLE LINE
- REMOVE EXISTING TELECOMMUNICATIONS LINE AND REPLACE WITH NEW.
- REMOVE EXISTING 13.2 KV PRIMARY OVERHEAD LINE BETWEEN POLE #5 & POLE #8.
- 13.2 KV PRIMARY SUPPLY TO NEW UNDERGROUND 13.2 KV SUPPLY. ROUTE TO BUILDINGS 11,46,94,95,118 & 23 AS SHOWN.

BUILDING & PHASE UTILITY LOADS TABLE (PHASE 1)

BLD #	BUILDING DESCRIPTION	SQFT	KVA	WATTS/SQFT	ELECTRICAL POWER	LIQUID PETROLEUM GAS TANK SIZE (QTY)
2	488 SEAT DINING HALL	25000	165	5.61	2	
3	PARTNER ORG OFFICE BUILDING	69000	550	6.78	4	
10	CAMPUS MINISTRY/OFFICE/CLASSROOM	17378	150	7.34	2	
11	DORMITORY	20000	150	6.38		3
12	DORMITORY	20000	165	7.01		3
14	WEA - PARTNER ORG OFFICE BUILDING	25000	225	7.65		3
15	BASEBALL GRANDSTAND	65000	70	0.92	4	
17	PARTNER ORG OFFICE BUILDING	51000	450	7.50	3	
18	DAYCARE FACILITY	16000	120	6.38	1	
19	BUSINESS INCUBATOR/RESEARCH	36000	290	6.85	2	
20	BUSINESS INCUBATOR/RESEARCH	36000	300	7.08	2	
21	PRIMARY SCHOOL	50935	525	8.76	3	
23	UNIVERSITY ADMINISTRATION	24000	200	7.08		
29	BUSINESS INCUBATOR/RESEARCH	30000	250	7.08	2	
30	BUSINESS INCUBATOR/RESEARCH	30000	250	7.08	2	
31	BUSINESS INCUBATOR/RESEARCH	30000	250	7.08	2	
32	BUSINESS INCUBATOR/RESEARCH	30000	250	7.08	2	
33	FAMILY CENTER	10000	85	7.23	2	
35	ASSEMBLY HALL (SMITH HALL)	50000	300	5.10	2	
43	100 SEAT DINNING HALL (ENLARGE)	5000	75	12.75		1
46	STAFF RESIDENCE	5040	56	9.44		1
79*	ENTRANCE GUARD OFFICE	500	2	3.40		1
91*	STAFF SINGLE FAMILY HOME	2200	23	8.89		1
92	STAFF SINGLE FAMILY HOME	2200	23	8.89		1
93	STAFF SINGLE FAMILY HOME	2400	23	8.15		1
94	STAFF SINGLE FAMILY HOME	2400	25	8.85		1
95	STAFF SINGLE FAMILY HOME	2400	25	8.85		1
107	CHAPEL (THEOLOGY STUDIES)	29000	190	5.57	2	
118	BETHANY HOUSE - RESIDENCE	14000	115	6.98	1	
119	TEMPORARY CONSTRUCTION STORAGE	4000	65	13.81		1
134*	STORAGE SHED	600	2	2.83		1
TOTALS		705,053	5,369		38	11 8

PHASE 1 UNDERGROUND ELECTRIC SUPPLY ————
PHASE 1 NATURAL GAS SUPPLY - - - - -

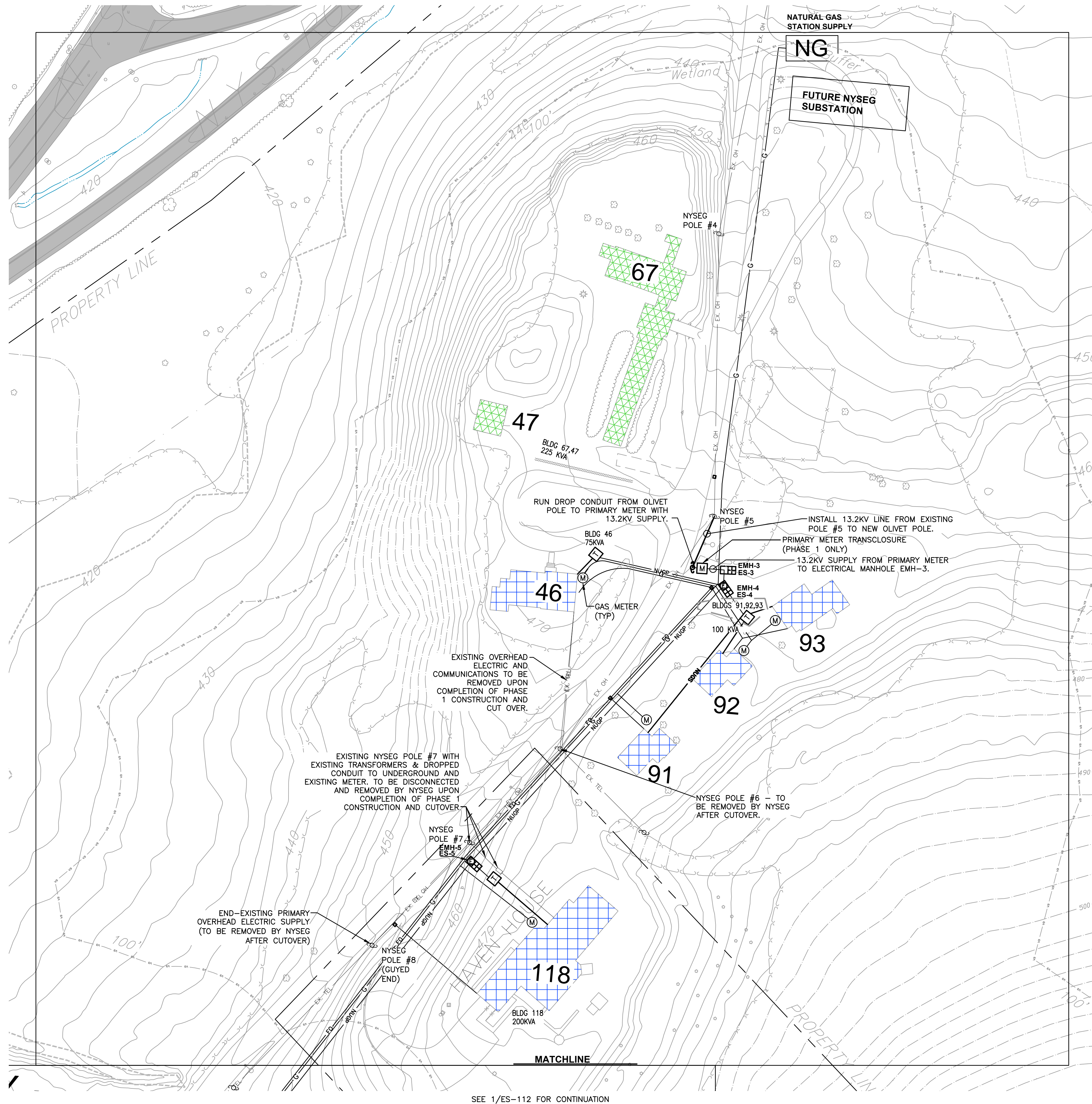
TEMPORARY HEATING FUEL SYSTEM:

- PHASE 1 BUILDINGS SHALL BE HEATED BY TEMPORARY UNDERGROUND LP GAS TANKS UNTIL SUCH TIME THAT THE PERMANENT COMPRESSED NATURAL GAS TANK FARM AND PIPELINE HAVE BEEN CONSTRUCTED, ARE OPERATIONAL TO THAT BUILDING AND ARE AVAILABLE TO BE CUT OVER WITH MINIMAL DISRUPTION TO THE BUILDING.
- AFTER CUTOVER TO THE CNG SYSTEM, THE TEMPORARY TANKS AND APPURTENANCES SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL LAWS.
- UNDERGROUND TANKS SHALL BE LOCATED IN CLOSE PROXIMITY TO THE MECHANICAL ROOM OF EACH BUILDING AS IS PRACTICAL AND THAT MEETS THE ENGINEER'S APPROVAL.
- REGARDLESS OF THE TANK SIZE, ALL ASME TANKS THAT ARE FILLED ON-SITE MUST BE LOCATED SO THAT THE FILLING CONNECTION AND LIQUID LEVEL GAUGE ARE A MINIMUM OF 10 FEET AWAY FROM ANY EXTERNAL SOURCE OF IGNITION (I.E. ANY OPEN FLAME, PILOT LIGHT, WINDOW A/C, COMPRESSOR, ETC), INTAKE TO DIRECT VENTED GAS APPLIANCE OR INTAKE TO A MECHANICAL VENTILATION SYSTEM.
- UNDERGROUND TANKS UP TO 2,000 GALLON LIQUID CAPACITY SHALL BE A MINIMUM OF 10 FEET FROM THE NEAREST BUILDING OR LOT LINE.
- ALL TANKS SHALL HAVE A MINIMUM SEPARATION OF 3 FEET FROM AN AJACENT TANK.

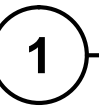
REV #	DATE	REMARKS:	ISSUE #	DATE	ISSUED FOR:
<div>1/8" 1/4" 1/2" 0 1" 2"</div> <div>REFERENCE SCALE</div>					
UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW.					
<div>FELLENZER ENGINEERING LLP</div> <div>22 Mulberry St., Suite 2A, Middletown, NY 10940 t 845-343-1481 fx 845-343-4986</div> <div>181 Church St., Suite 100, Poughkeepsie, NY 12601 t 845-454-9704 fx 855-320-8735</div>					
PROJECT TITLE: DOVER GREENS UTILITIES ROUTING					
DRAWING TITLE: PHASE 1 - UTILITIES SUPPLY PLAN					
DESIGNED BY: DLH	DRAWN BY: SAR	APPROVED BY PM: ACL	APPROVED BY PIC: JDF	DRAWING #: ES-101	
DATE: 07/17/15	SCALE: AS SHOWN	FE PROJECT #:		PAGE 7 OF 19	



PROGRESS REPORT
7/19/16
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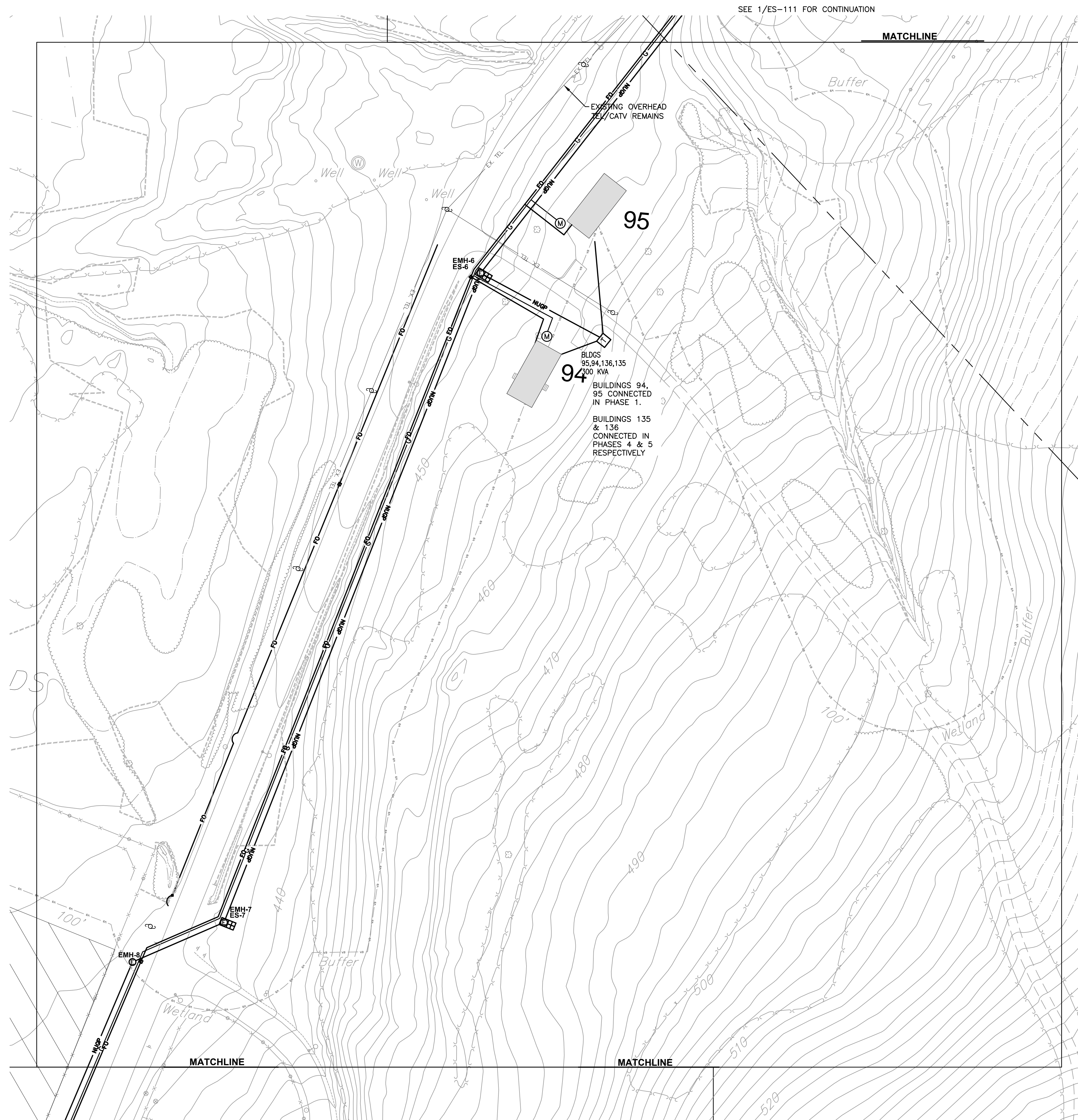
SEE 1/ES-112 FOR CONTINUATION



PHASE 1 UTILITIES SITE PLAN (PARTIAL)

 $1''=50$ 

△				
REV #	DATE	REMARKS:	ISSUE # DATE ISSUED FOR:	
 <p>1/8" 1/4" 0 1" 2"</p> <p>REFERENCE SCALE</p>				
<p>UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW.</p>				
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <h1 style="margin: 0;">FELLENZER</h1> <h2 style="margin: 0;">ENGINEERING LLP</h2> </div> <div style="text-align: right;">  </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="width: 45%;"> <p>22 Mulberry St., Suite 2A, Middletown, NY 10940 t 845-343-1481 fx 845-343-4986</p> </div> <div style="width: 45%; text-align: right;"> <p>181 Church St., Suite 100, Poughkeepsie, NY 12601 t 845-454-9704 fx 855-320-8735</p> </div> </div>				
<p>SEAL:</p> <div style="transform: rotate(-45deg); transform-origin: left top; position: relative; height: 150px;"> PROGRESS PRINT 7/19/16 NOT FOR CONSTRUCTION </div>	<p>PROJECT TITLE:</p> <p>DOVER GREENS UTILITIES ROUTING</p> <p>TOWN OF DOVER, DUTCHESS COUNTY, NEW YORK</p>			
	<p>DRAWING TITLE:</p> <p>PHASE 1 UTILITIES SITE PLAN (PARTIAL)</p>			
	<p>DESIGNED BY: DLH</p>	<p>DRAWN BY: SAR</p>	<p>APPROVED BY PM: ACL</p>	<p>APPROVED BY PIC: JDF</p>
	<p>DATE: 07/17/15</p>	<p>SCALE: AS SHOWN</p>	<p>FE PROJECT #: 15-153</p>	
<p>ES-111</p> <p>PAGE 8 OF 19</p>				



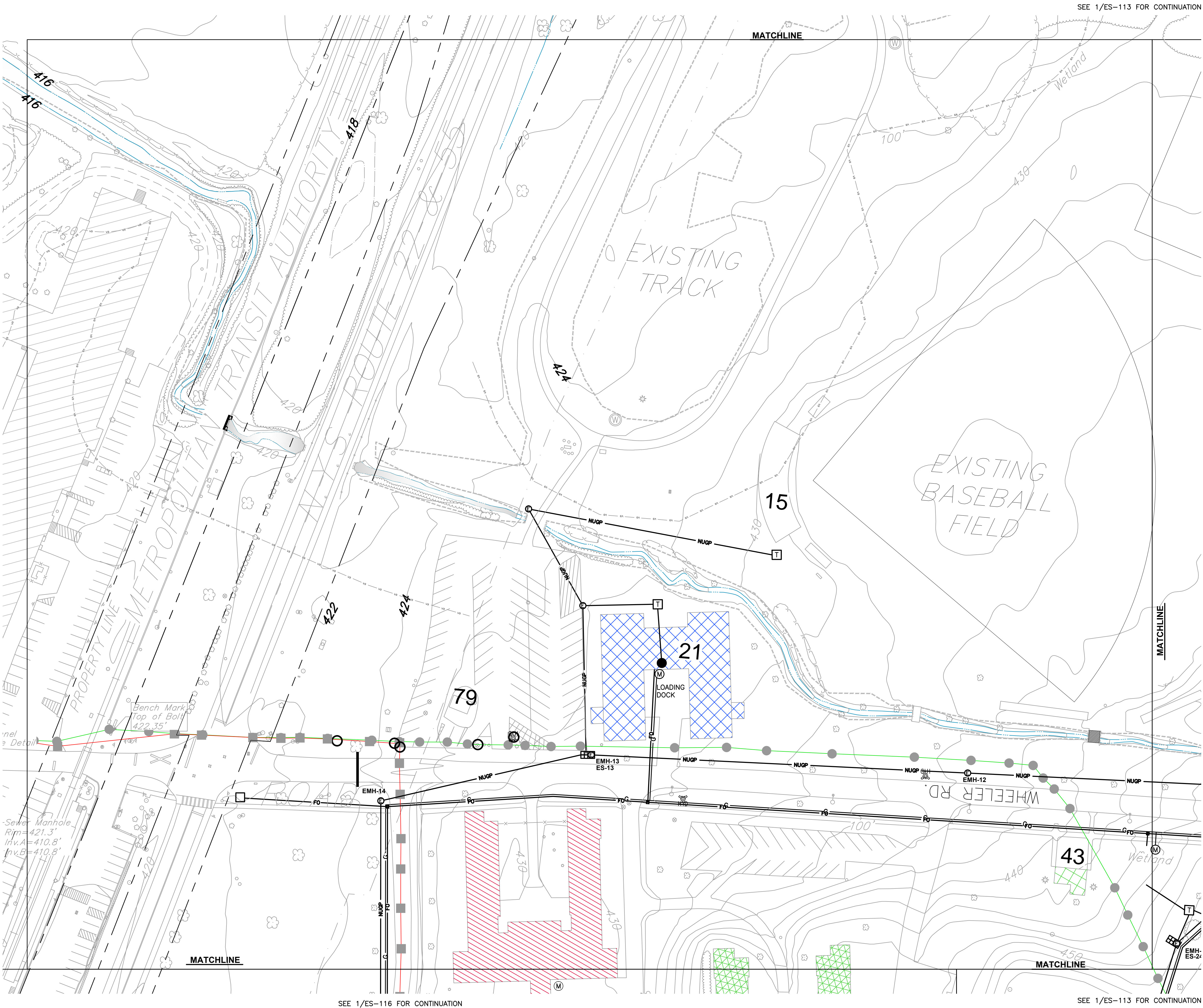
SEE 1/ES-114 FOR CONTINUATION



1 PHASE 1 UTILITIES SITE PLAN (PARTIAL)
1"=50'



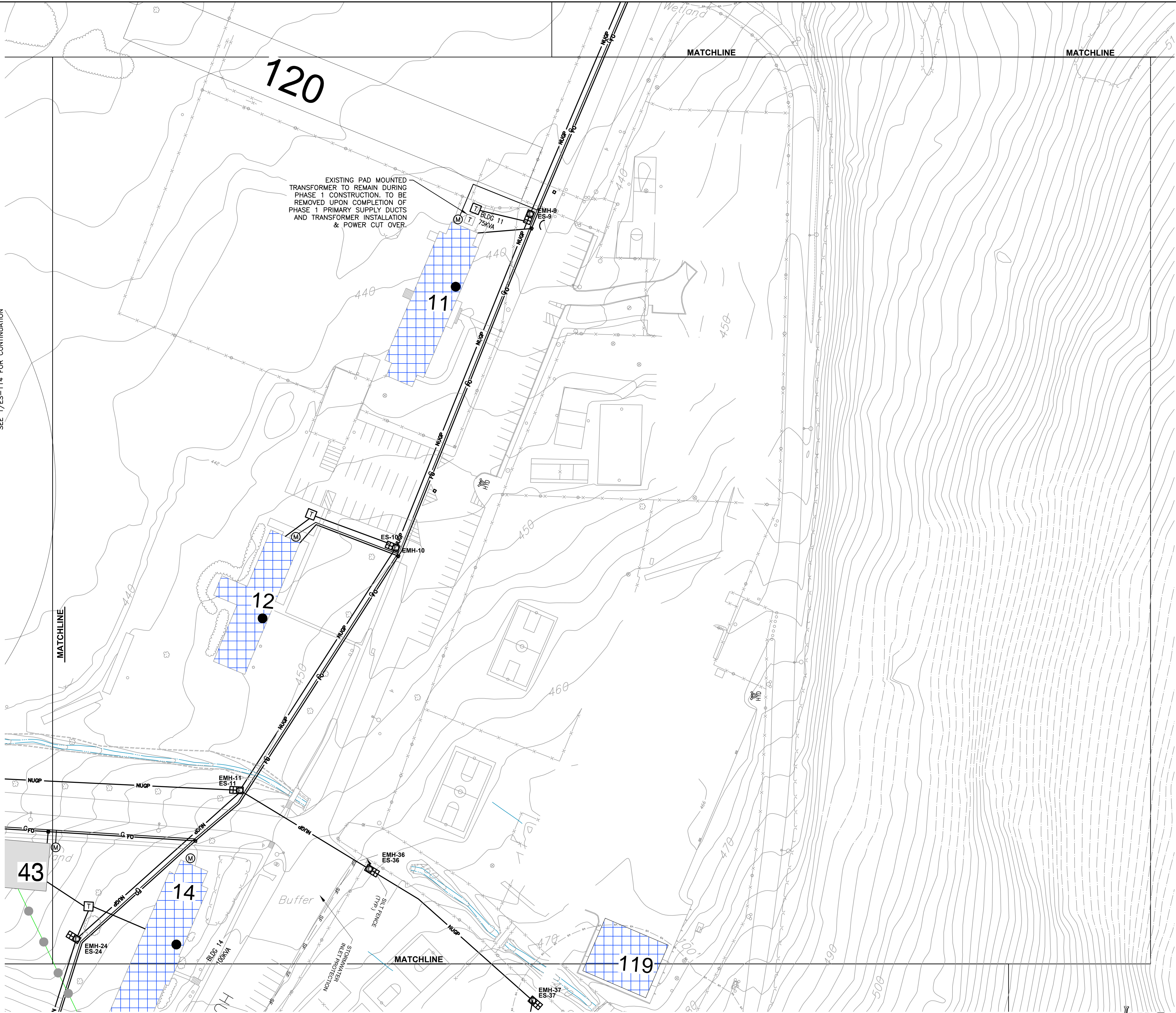
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Date: Tue, Jul 19, 2016 - 3:34 PM (Name: sar)



SEE 1/ES-114 FOR CONTINUATION

SEE 1/ES-116 FOR CONTINUATION

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Date: Tue, Jul 19, 2016 - 3:35 PM (Name: sar)



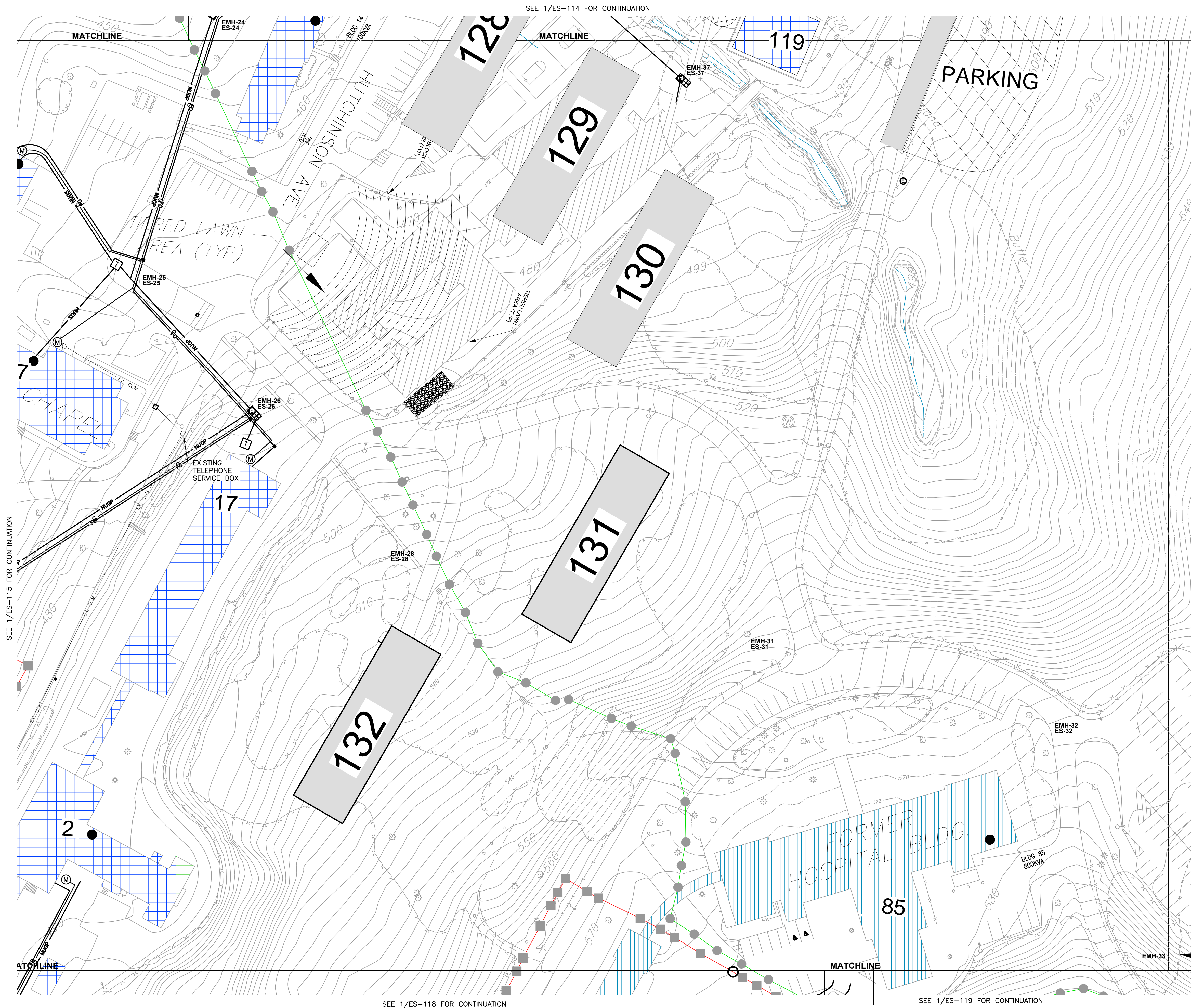
PHASE 1 UTILITIES SITE PLAN (PARTIAL)
1"=50'



REV #	DATE	REMARKS:	ISSUE #	DATE	ISSUED FOR:
<div><p>REFERENCE SCALE</p></div>					
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SEAL:		PROJECT TITLE: DOVER GREENS UTILITIES ROUTING TOWN OF DOVER, DUTCHESS COUNTY, NEW YORK			
DRAWING TITLE: PHASE 1 UTILITIES SITE PLAN (PARTIAL)					
DESIGNED BY: DLH	DRAWN BY: SAR	APPROVED BY PM: ACL	APPROVED BY PIC: JDF	DRAWING #: ES-114	
DATE: 07/17/15	SCALE: AS SHOWN	FE PROJECT #: 15-153 PAGE 11 OF 19			

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File Name: F:\2015\15-153 OLIVET SITE PLANDWG_PHASE 1\ES-100-ES-115.dwg (Layout: ES-116)
Date: Tue, Jul 19, 2016 - 3:35 PM (Name: sar)



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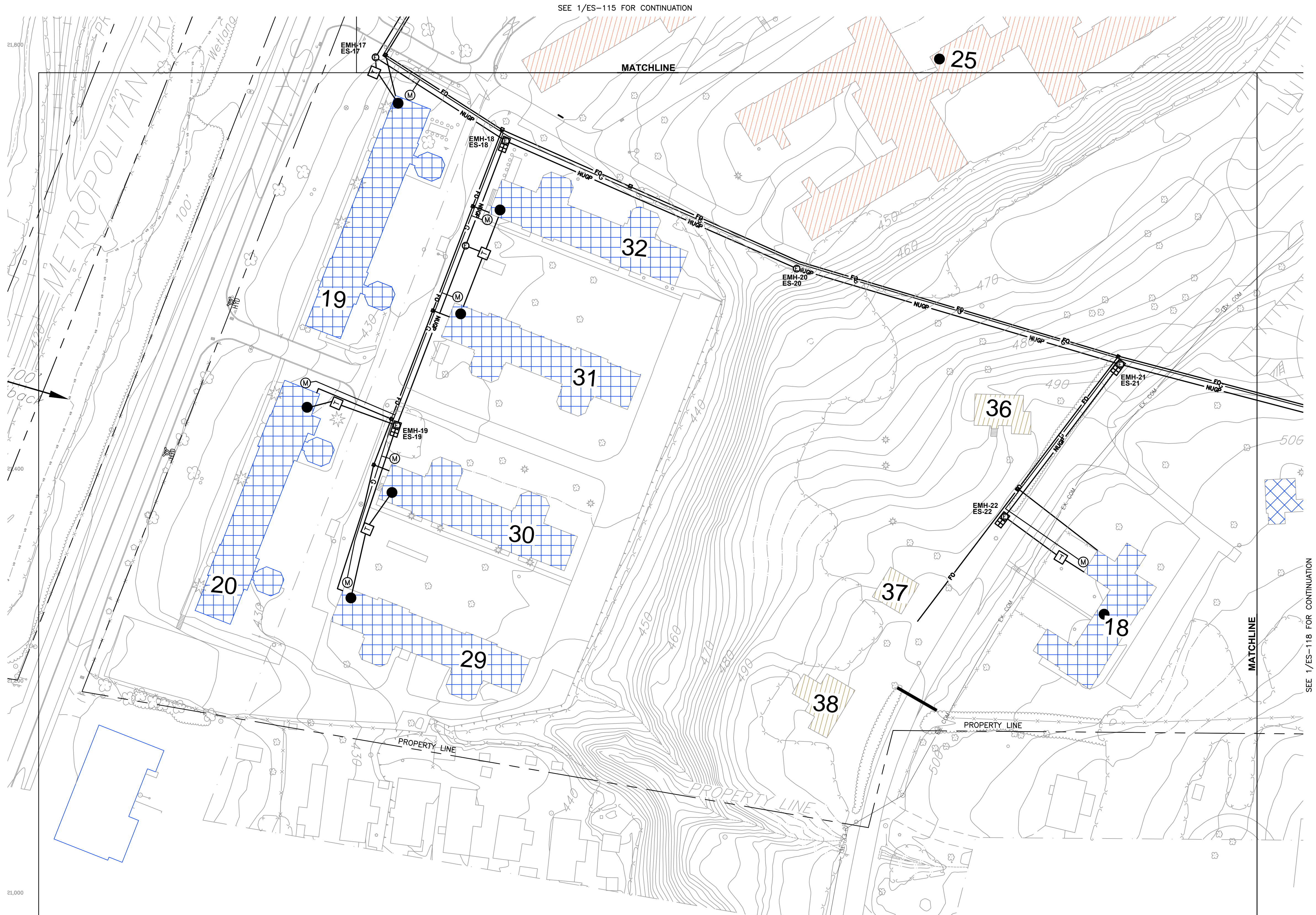
PHASE 1 UTILITIES SITE PLAN (PARTIAL)

1"=50'



△					
REV #	DATE	REMARKS:	ISSUE #	DATE	ISSUED FOR:
<div><div>1/8" 1/4" 1/2" 0 1" 2"</div><div>REFERENCE SCALE</div></div>					
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SEAL:	PROJECT TITLE: DOVER GREENS UTILITIES ROUTING TOWN OF DOVER, DUTCHESS COUNTY, NEW YORK				
DRAWING TITLE: PHASE 1 UTILITIES SITE PLAN (PARTIAL)					
DESIGNED BY: DLH	DRAWN BY: SAR	APPROVED BY PM: ACL	APPROVED BY PIC: JDF	DRAWING #: ES-116	
DATE: 07/17/15	SCALE: AS SHOWN	FE PROJECT #: 15-153 PAGE 13 OF 19			

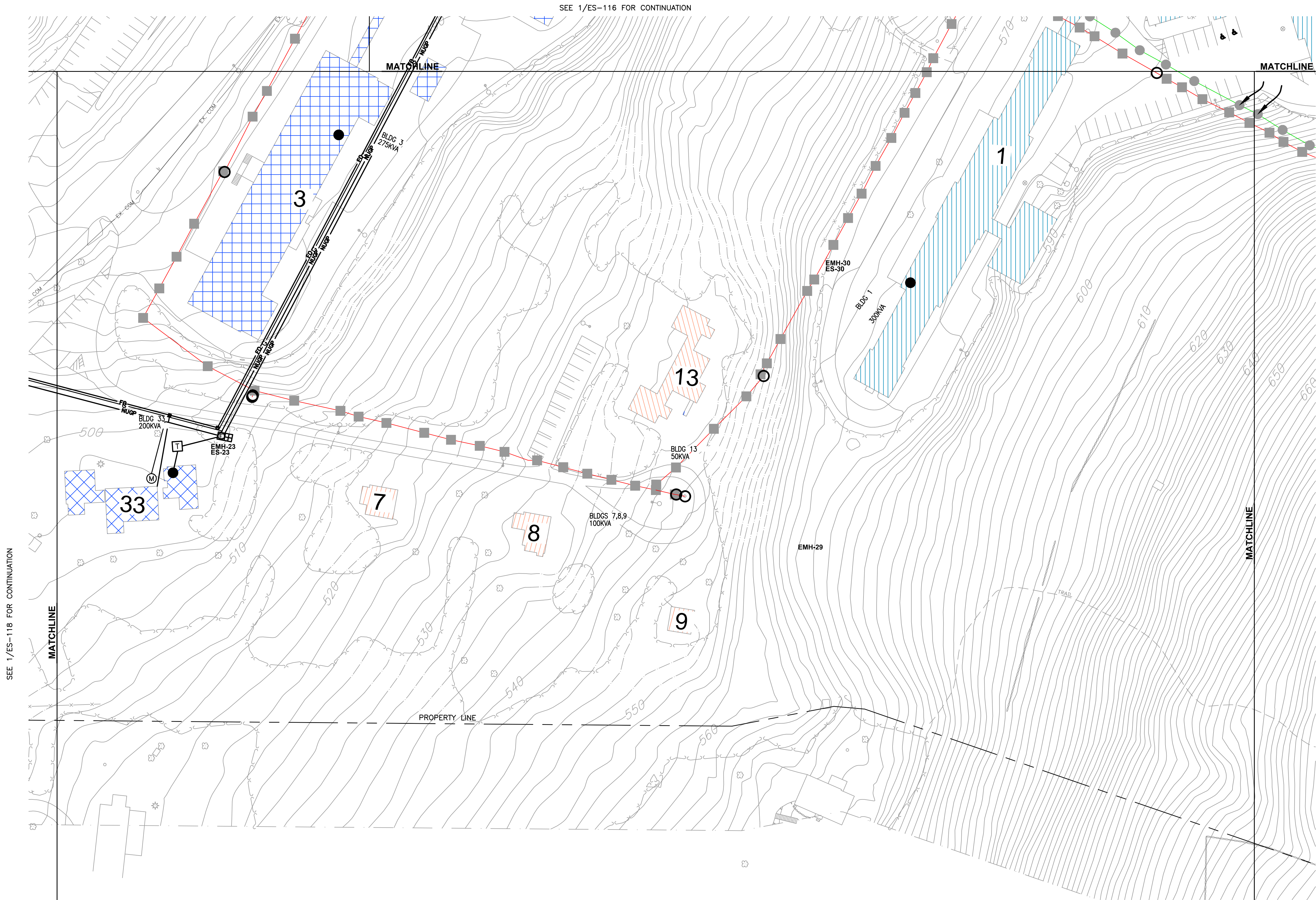
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CONSTRUCTION



 PHASE 1 UTILITIES SITE PLAN (PARTIAL)
1"=50'



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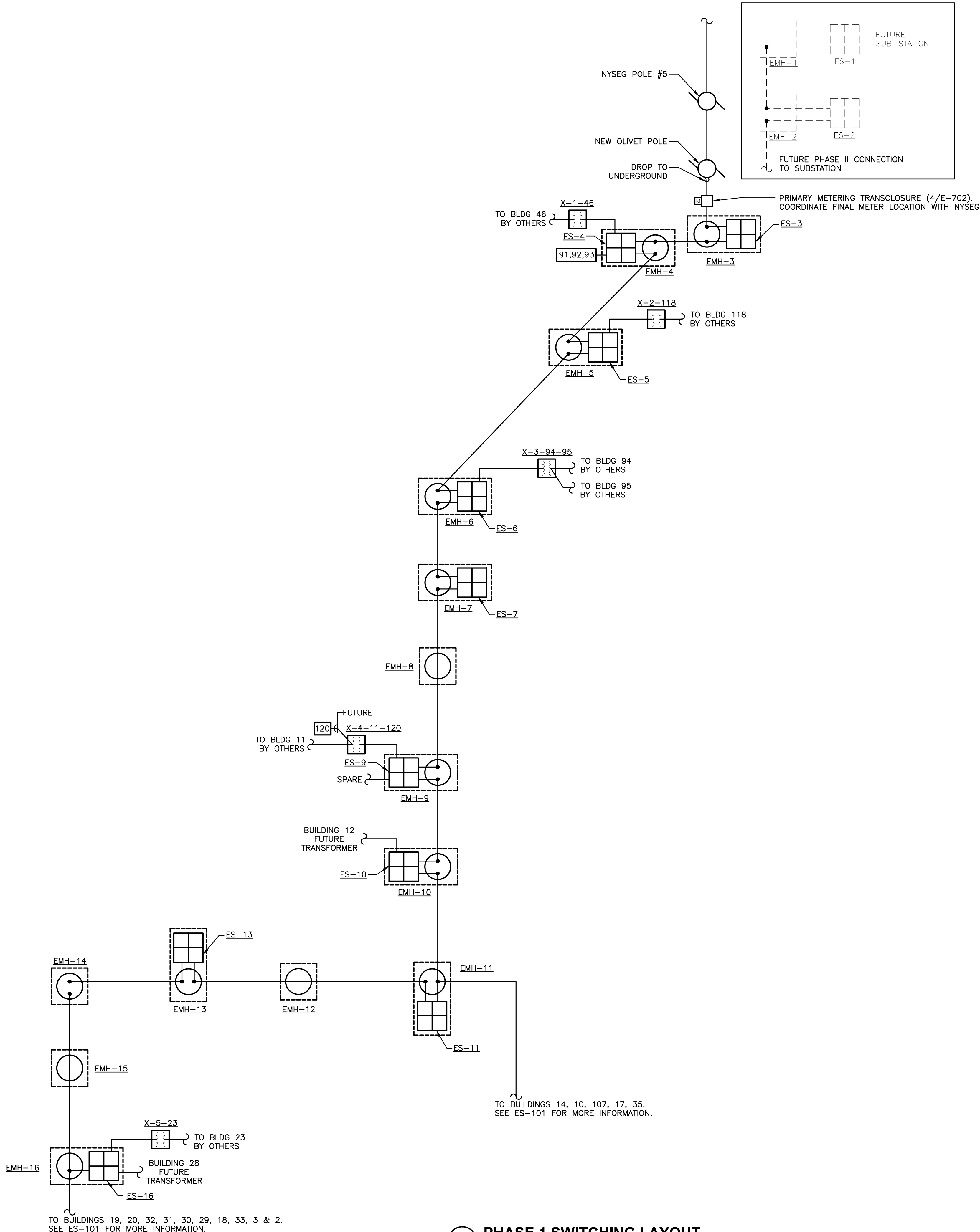


1 PHASE 1 UTILITIES SITE PLAN (PARTIAL)
1"=50'

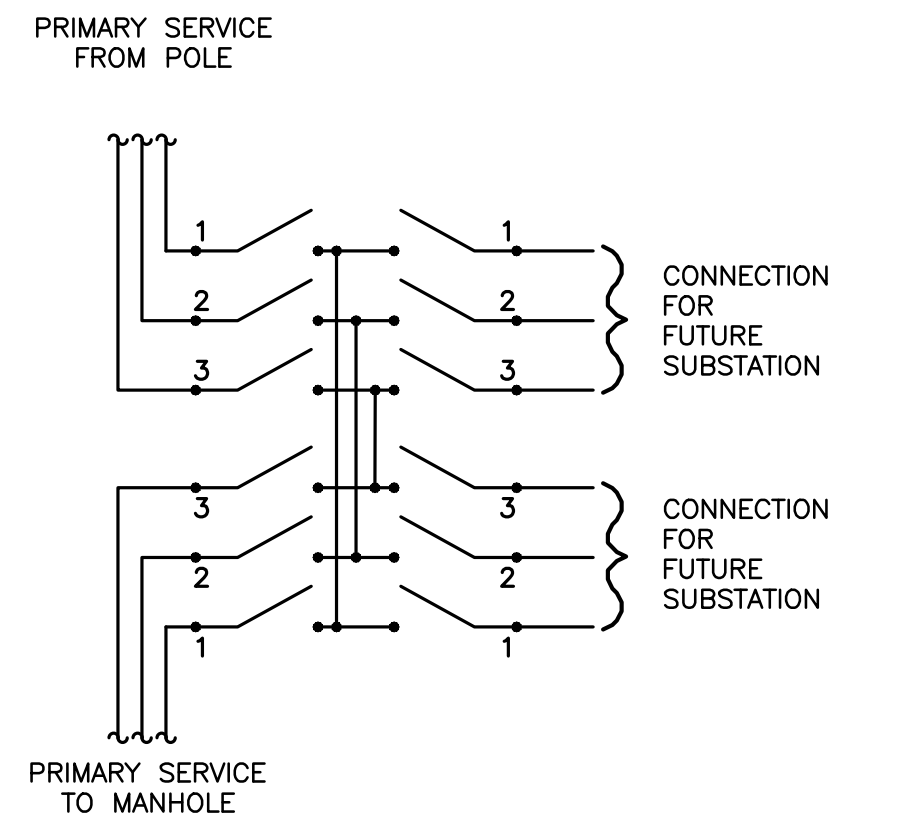


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REV #	DATE	REMARKS:	ISSUE #	DATE	ISSUED FOR:
<div>1/8" 1/4" 1/2" 0 1" 2"</div> <div>REFERENCE SCALE</div>					
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SEAL:	PROJECT TITLE: DOVER GREENS UTILITIES ROUTING TOWN OF DOVER, DUTCHESS COUNTY, NEW YORK				
DRAWING TITLE: PHASE 1 UTILITIES SITE PLAN (PARTIAL)					
DESIGNED BY: DLH	DRAWN BY: SAR	APPROVED BY PM: ACL	APPROVED BY PIC: JDF	DRAWING #: ES-118	
DATE: 07/17/15	SCALE: AS SHOWN	FE PROJECT #: 15-153 PAGE 15 OF 19			

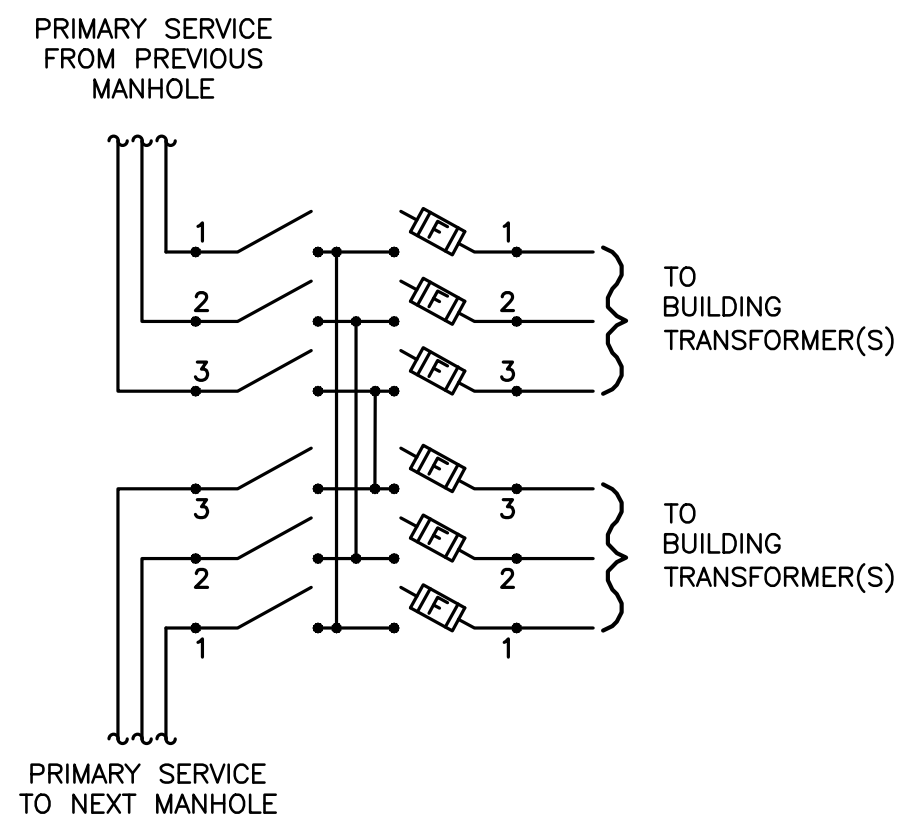
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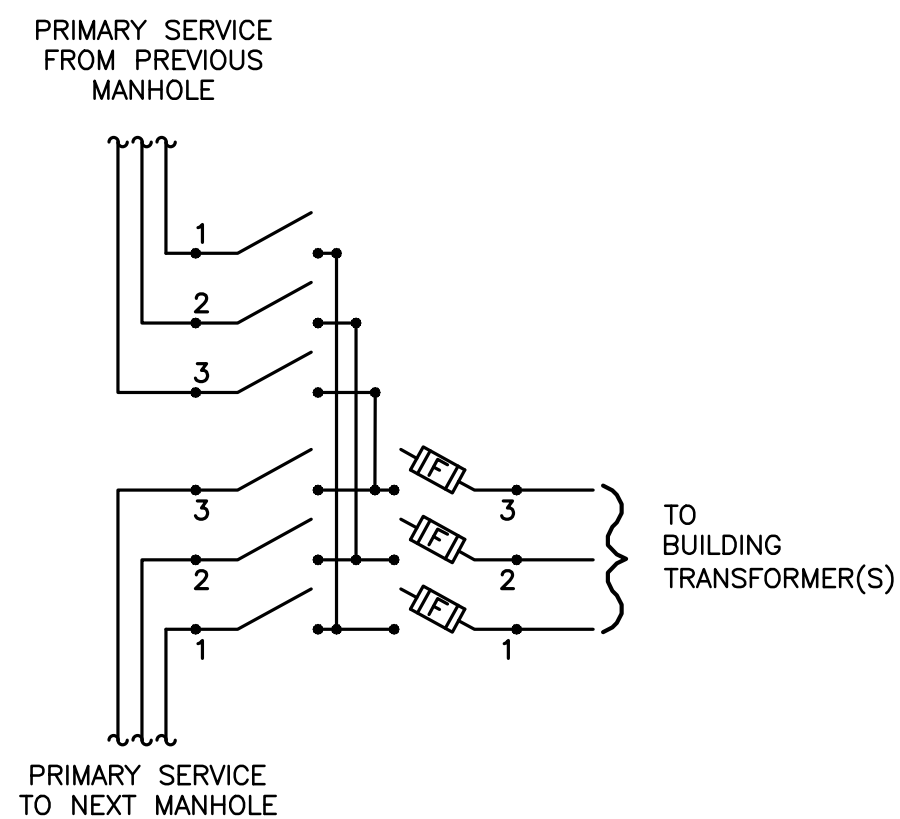
1 PHASE 1 SWITCHING LAYOUT
N.T.S.



2 SWITCH GEAR SCHEMATIC 'A'
N.T.S.



3 SWITCH GEAR SCHEMATIC 'B'
N.T.S.



4 SWITCH GEAR SCHEMATIC 'C'
N.T.S.

ELECTRICAL SWITCHGEAR SCHEDULE				
SYMBOL	MANUFACTURER	MODEL	DESCRIPTION	SWITCHGEAR SCHEMATIC
	S&C	PMH-10	PAD MOUNTED GEAR WITH NON-FUSED SWITCHES IN 4 COMPARTMENTS	SCHEMATIC 'A'
	S&C	PMH-9	PAD MOUNTED GEAR WITH S&C POWER FUSES WITH FUSED PROTECTION. WITH PROVISIONS FOR TWO (2) TRANSFORMER CONNECTIONS.	SCHEMATIC 'B'
		PMH-6	PAD MOUNTED GEAR WITH S&C POWER FUSES WITH FUSED PROTECTION. WITH PROVISIONS FOR ONE (1) TRANSFORMER CONNECTION.	SCHEMATIC 'C'
		PMH-6	PAD MOUNTED GEAR WITH S&C POWER FUSES WITH FUSED PROTECTION. WITH PROVISIONS FOR ONE (1) TRANSFORMER CONNECTION.	SCHEMATIC 'C'
		PMH-6	PAD MOUNTED GEAR WITH S&C POWER FUSES WITH FUSED PROTECTION. WITH PROVISIONS FOR ONE (1) TRANSFORMER CONNECTION.	SCHEMATIC 'C'
		PMH-9	PAD MOUNTED GEAR WITH S&C POWER FUSES WITH FUSED PROTECTION. WITH PROVISIONS FOR TWO (2) TRANSFORMER CONNECTIONS.	SCHEMATIC 'B'
		PMH-6	PAD MOUNTED GEAR WITH S&C POWER FUSES WITH FUSED PROTECTION. WITH PROVISIONS FOR ONE (1) TRANSFORMER CONNECTION.	SCHEMATIC 'C'
		PMH-9	PAD MOUNTED GEAR WITH S&C POWER FUSES WITH FUSED PROTECTION. WITH PROVISIONS FOR TWO (2) TRANSFORMER CONNECTIONS.	SCHEMATIC 'B'
		PMH-6	PAD MOUNTED GEAR WITH S&C POWER FUSES WITH FUSED PROTECTION. WITH PROVISIONS FOR ONE (1) TRANSFORMER CONNECTION.	SCHEMATIC 'C'
		PMH-9	PAD MOUNTED GEAR WITH S&C POWER FUSES WITH FUSED PROTECTION. WITH PROVISIONS FOR TWO (2) TRANSFORMER CONNECTIONS.	SCHEMATIC 'B'

ELECTRICAL TRANSFORMER SCHEDULE		
SYMBOL	KVA RATING	DESCRIPTION
	45	13.2 KV/208Y, 3Ø, 4W TRANSFORMER. 'XX' DENOTES BUILDING(S) SERVED.
	75	13.2 KV/208Y, 3Ø, 4W TRANSFORMER. 'XX' DENOTES BUILDING(S) SERVED.
	112.5	13.2 KV/208Y, 3Ø, 4W TRANSFORMER. 'XX' DENOTES BUILDING(S) SERVED.
	150	13.2 KV/208Y, 3Ø, 4W TRANSFORMER. 'XX' DENOTES BUILDING(S) SERVED.
	225	13.2 KV/208Y, 3Ø, 4W TRANSFORMER. 'XX' DENOTES BUILDING(S) SERVED.

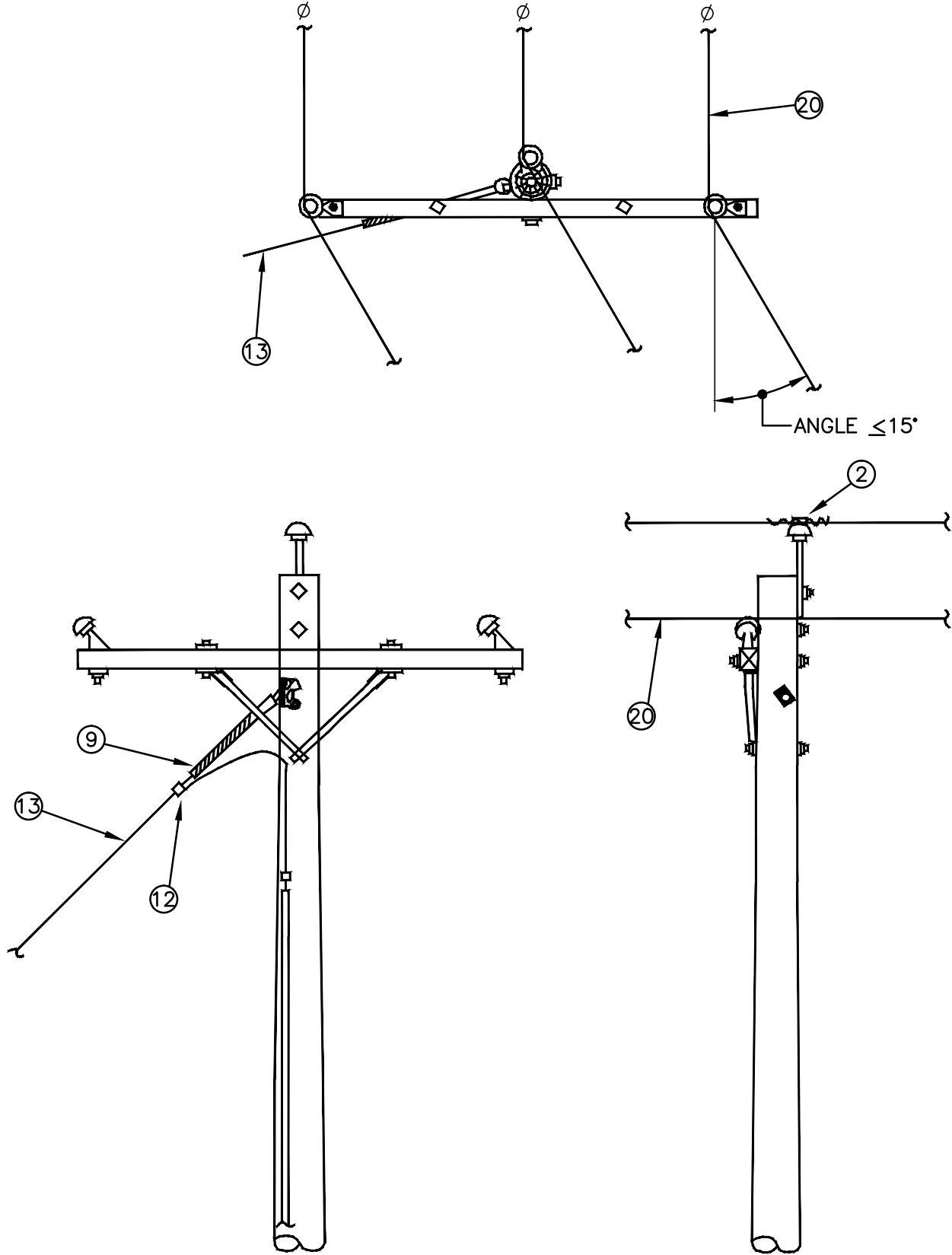
NOTE:
ALL TRANSFORMERS TYPICAL OF SCHNEIDER ELECTRIC, LIQUID FILLED, PAD MOUNTED.

REV #	DATE	REMARKS:	ISSUE #	DATE	ISSUED FOR:
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PROJECT TITLE: DOVER GREENS UTILITIES ROUTING TOWN OF DOVER, DUTCHESS COUNTY, NEW YORK					
DRAWING TITLE: SWITCHING LAYOUT & SCHEDULE					
DESIGNED BY: DLH	DRAWN BY: SAR	APPROVED BY PM: ACL	APPROVED BY PIC: JDF	DRAWING #: ES-130	
DATE: 07/17/15	SCALE: AS SHOWN	FE PROJECT #: 15-153		PAGE 16 OF 19	

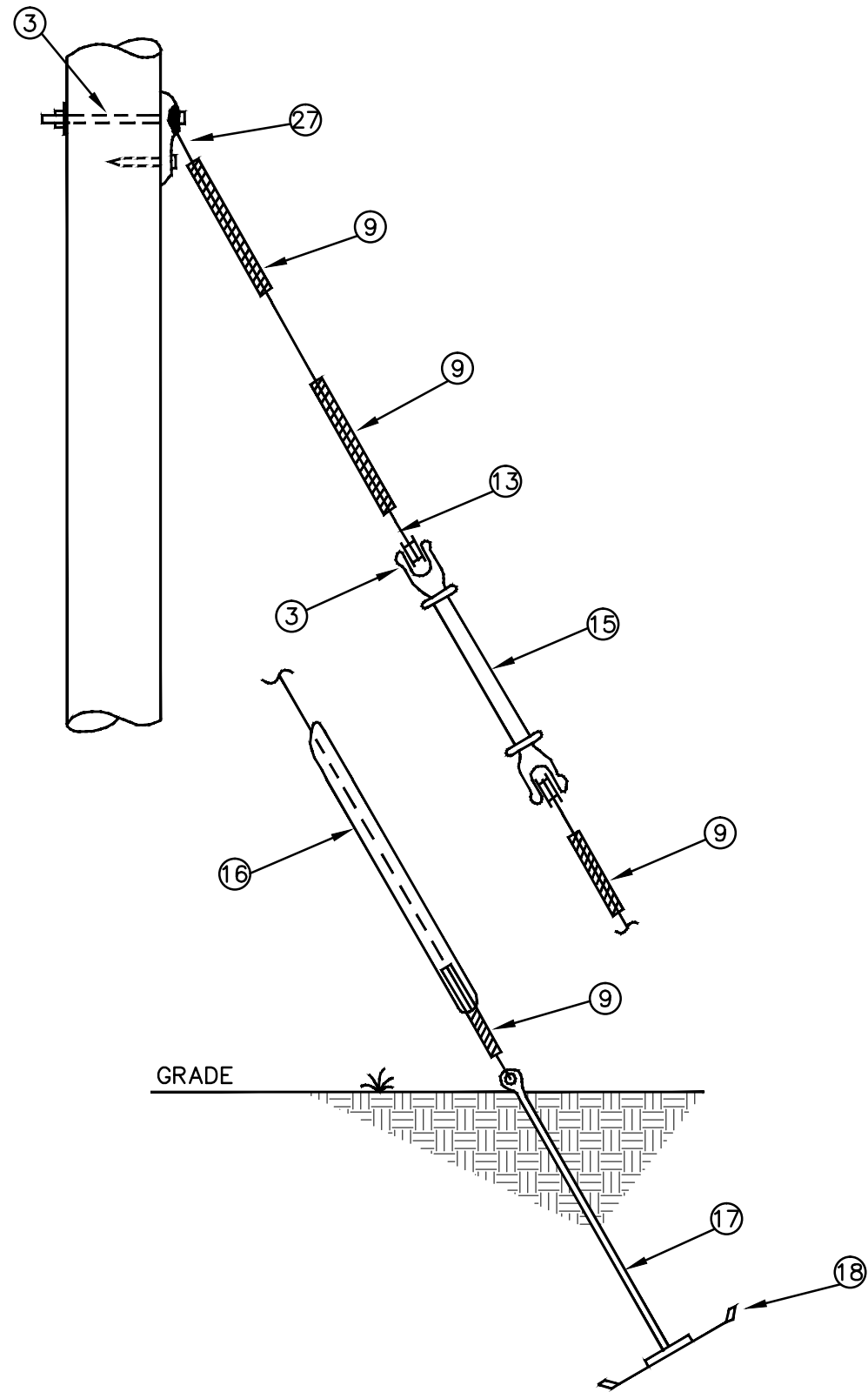


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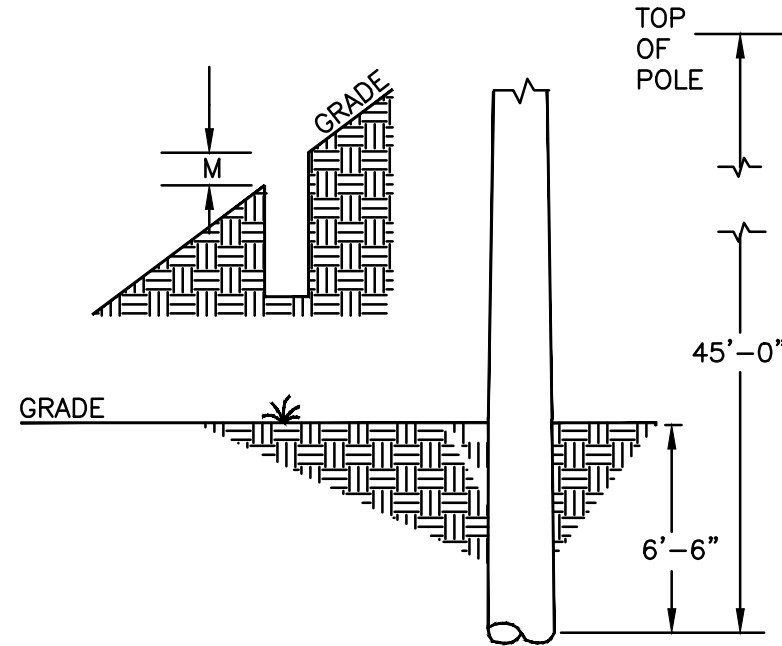
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Date: Tue, Jul 19, 2016 - 3:35 PM (Name: sar)



1 **THREE PHASE ANGLE CONSTRUCTION UP TO 15°**
N.T.S.



2 **ANCHOR GUY DETAIL**
N.T.S.

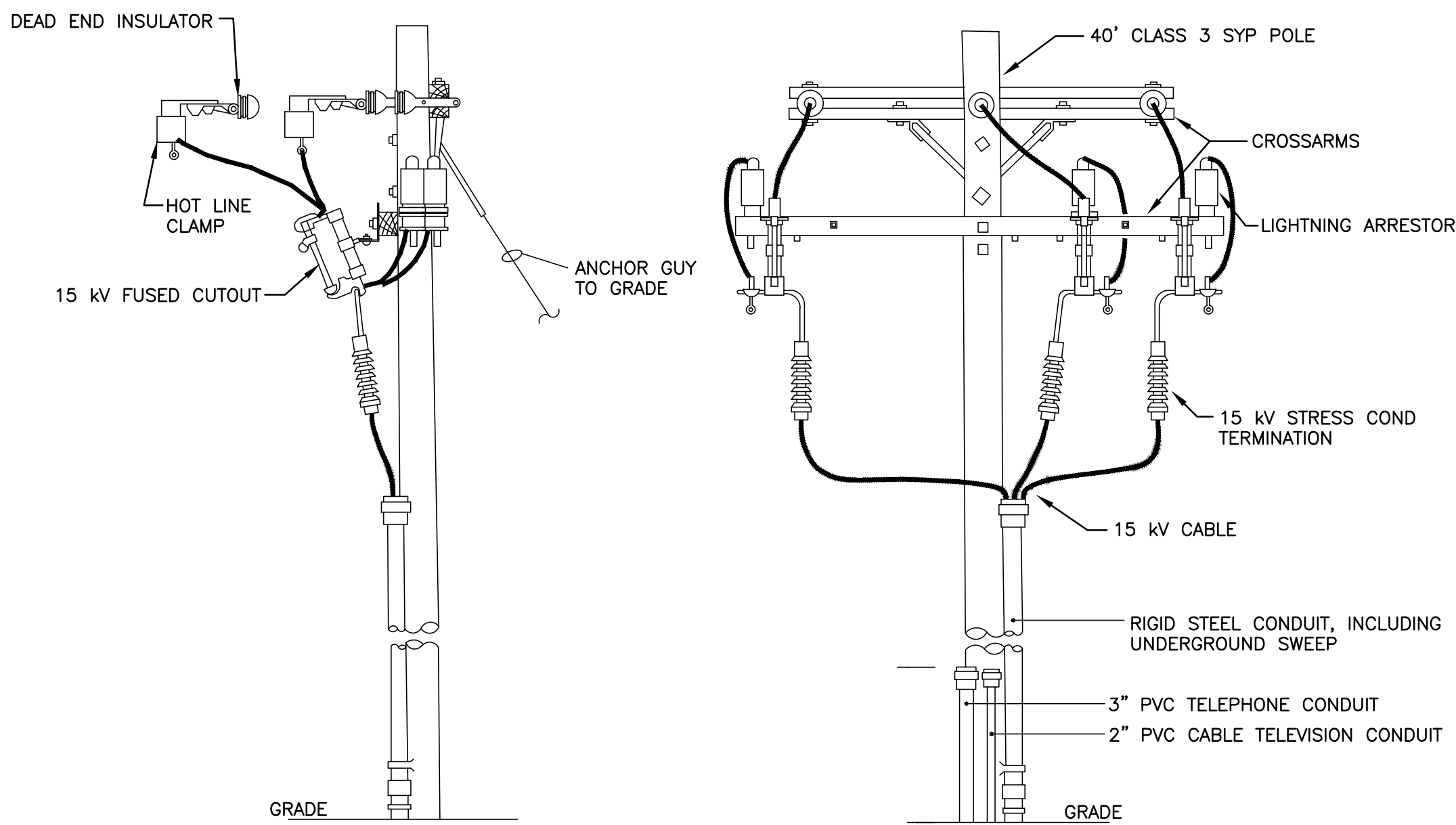


- MARSHES, QUICKSAND, ETC. — INSTALL WITH AID OF SAND BARREL OR EQUIVALENT INCREASING ABOVE DEPTH IN GROUND BY ONE FOOT.
- FUTURE GRADES. — WHERE GRADE IS TO BE LOWERED IN THE NEAR FUTURE SET POLES SO THAT THEY WILL BE IN THE GROUND NOT LESS THAN THE REQUIRED DEPTH AFTER NEW GRADE IS ESTABLISHED.
- SLOPING GROUND — INCREASE SETTING DEPTH AS SHOWN IN ABOVE DIAGRAM BY DISTANCE M. (POLE LENGTHS SHALL BE INCREASED WHERE NECESSARY)

3 **TYPICAL POLE SET DETAIL**
N.T.S.

LEGEND AND SCHEDULE OF TERMINAL POLE EQUIPMENT

SYMBOL	MANUFACTURER	CATALOG #	DESCRIPTION
①	McGraw Edison	NP908	SKY-GLAZE TYPE INSULATOR ANSI CLASS 55-3
②	SYNTHETIC PRODUCTS	S-824	PLASTIC TIE FOR USE ON NEMA CLASS "C" PIN TYPE INSULATOR
③	-----	-----	5/8" DIAMETER BOLT WITH WASHERS AND NUT AS REQUIRED — LENGTH AS REQUIRED
④	OHIO BRASS	93731	GALVANIZED STEEL DEAD END EXT. STRAP. MIN ULTIMATE STRENGTH 10,000 LBS TWO 11/16" HOLES ON 12" CENTERS
⑤	OHIO BRASS	83064	MALLEABLE IRON SUSPENSION CLAMP WITH CLEVIS, CABLE RANGE .312" — .6", ULTIMATE STRENGTH — 16,000 LBS
⑥	PREFORMED LINE PRODUCTS	CE-5259	CLEVIS EYE, MIN. ULTIMATE STRENGTH 20,000 LBS
⑦	OHIO BRASS	13722	DISTRIBUTION AND TRANSMISSION ANCHOR SHACKLE COMPLETE WITH CLEVIS PIN AND COTTER KEY. MIN. ULTIMATE STRENGTH 25,000 LBS.
⑧	JOSLYN	J-6556	GUY HOOK, 5/8" DIAMETER BOLT WITH WASHERS AND NUT AS REQUIRED, 4" LONG LAG SCREW PILOT POINT TWIST DRIVE
⑨	PREFORMED LINE PRODUCTS	-----	GUY GRIP — ALUMOWELD — 12,500 LB RATE HOLDING STRENGTH 29" LONG — SIZE FOR GUY STRAND LISTED
⑩	OHIO BRASS	42399	DEAD END INSULATOR, ANSI CLASS 52-9, COLOR SKY GLAZE, AL. CAP AND AL. PIN OR FE. CAP AND FE. PIN
⑪	CHANCE	S-1530 GP	HOT LINE CLAMP (CU AL)
⑫	BURNDY	-----	COMPRESSION CONNECTOR SIZE AS REQUIRED.
⑬	COPPERWELD	-----	GUY STRAND — 10,000 LB ALUMOWELD
⑭	JOSLYN	J6288	SHEAVE WHEEL
⑮	JOSLYN	650-12	GLASS STRAIN INSULATORS
⑯	PREFORMED LINE PRODUCTS	PG5104	GUY GUARD
⑰	LINE MATERIAL	WDA2T8	ANCHOR ROD — 25,000 LB AVERAGE ULTIMATE STRENGTH TRIPLE STRAND EYE — 1"x 8'-0"
⑱	LINE MATERIAL	DA1E3	EXPANDING ANCHOR — FOUR WAY FLUKE TYPE
⑲	-----	-----	#2 AWG COPPER GROUND CONDUCTOR
⑳	-----	-----	AERIAL PRIMARY LINE— #2 ACSR 6 STRAND ALUMINUM, 1 STRAND STEEL POLY COVERED CONDUCTORS "PIGNOT"
㉑	JOSLYN	AC45901	STRAITLINE CLAMP
㉒	JOSLYN	24626	STEEL PIN
㉓	S & C	89022R3-E	OPEN CUTOUT TYPE XS 14.4KV RATING AMP. CONT. 100
㉔	-----	-----	NEMA STANDARD TYPE 'K' PRIMARY DISTRIBUTION FUSE LINKS SIZE ACCORDING TO ORANGE AND ROCKLAND UTILITIES STANDARDS
㉕	RTE	-----	POLE MOUNT SINGLE PHASE CSP TRANSFORMER. 2 BUSHING, 15KV CLASS PRIMARY, 240 V SECONDARY
㉖	OB	217109-8093	DYNABAR DV LIGHTNING ARRESTER 7.62/13.2KV WYE
㉗	-----	-----	GUY ATTACHMENT



NOTE:
DETAIL SHOWN IS TYPICAL 15 kV POLE TOP CONSTRUCTION. ACTUAL
INSTALLATION SHALL BE APPROVED BY NEW YORK STATE GAS & ELECTRIC
CORP. ENGINEERING DEPARTMENT PRIOR TO INSTALLATION.

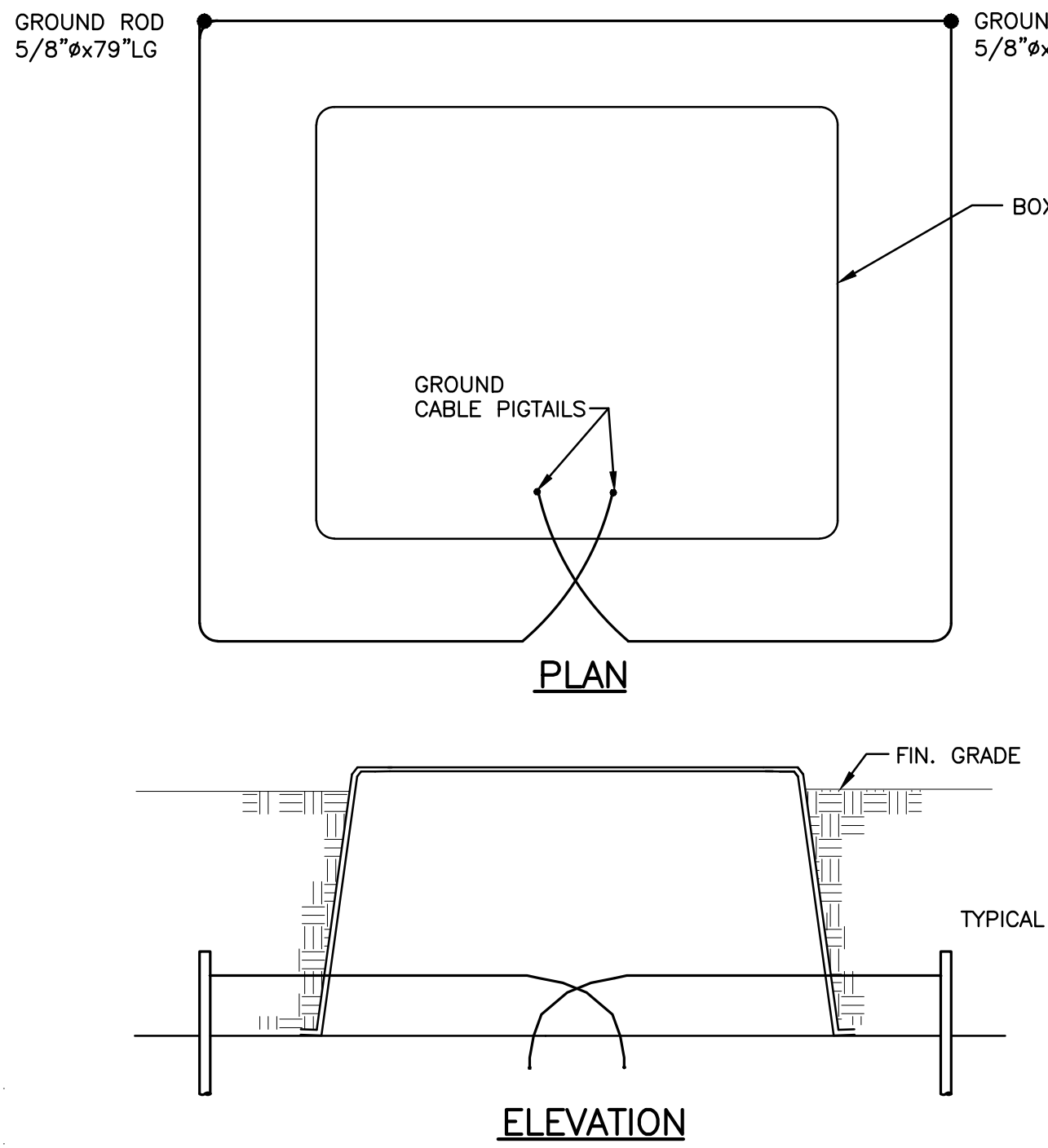
4 **TERMINAL POLE DETAIL**
N.T.S.

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REV #	DATE	REMARKS:	ISSUE #	DATE	ISSUED FOR:
<div>1/8" 1/4" 1/2" 0 1" 2" REFERENCE SCALE</div>					
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SEAL:		PROJECT TITLE: DOVER GREENS UTILITIES ROUTING TOWN OF DOVER, DUTCHESS COUNTY, NEW YORK			
DRAWING TITLE: PHASE 1 ELECTRIC SUPPLY — SITE DETAILS					
DESIGNED BY: DLH	DRAWN BY: SAR	APPROVED BY PM: ACL	APPROVED BY PIC: JDF	DRAWING #: ES-701	
DATE: 07/17/15	SCALE: AS SHOWN	FE PROJECT #: 15-153 PAGE 17 OF 19			



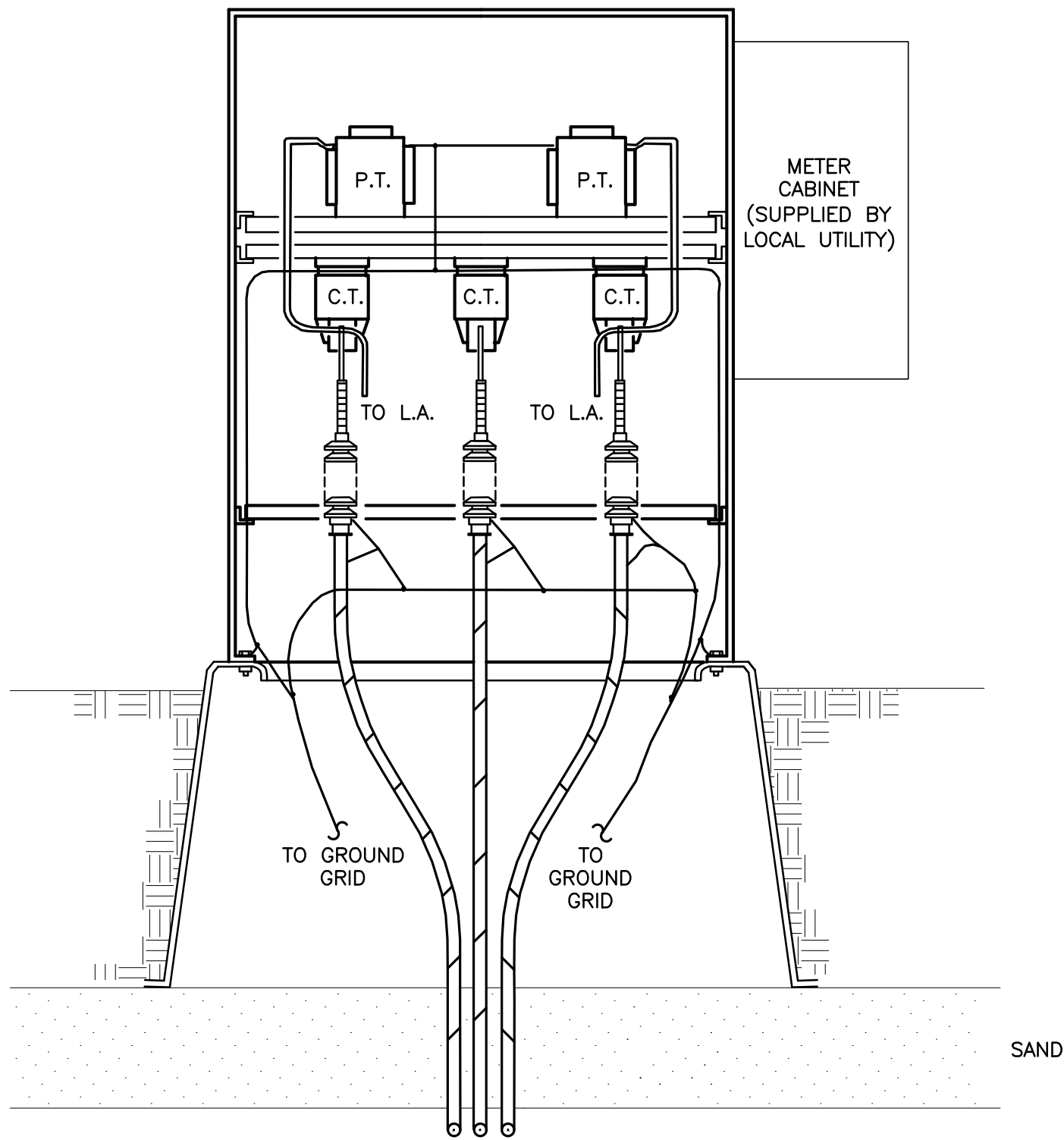
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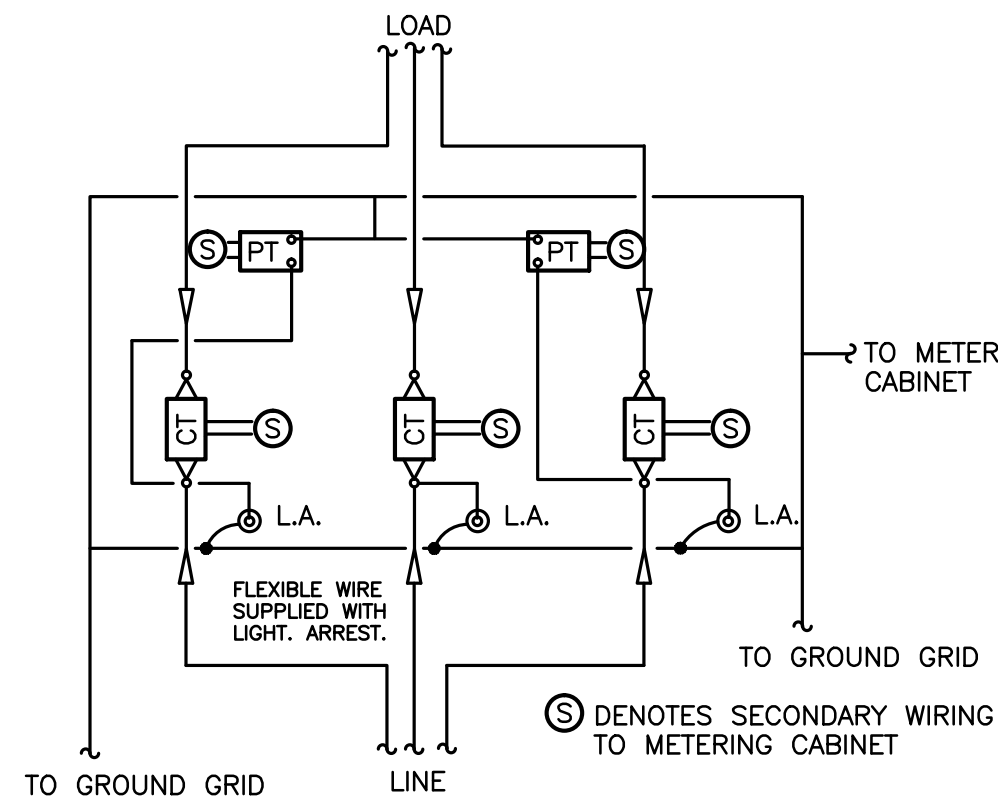


1 GROUND GRID DETAIL
N.T.S.

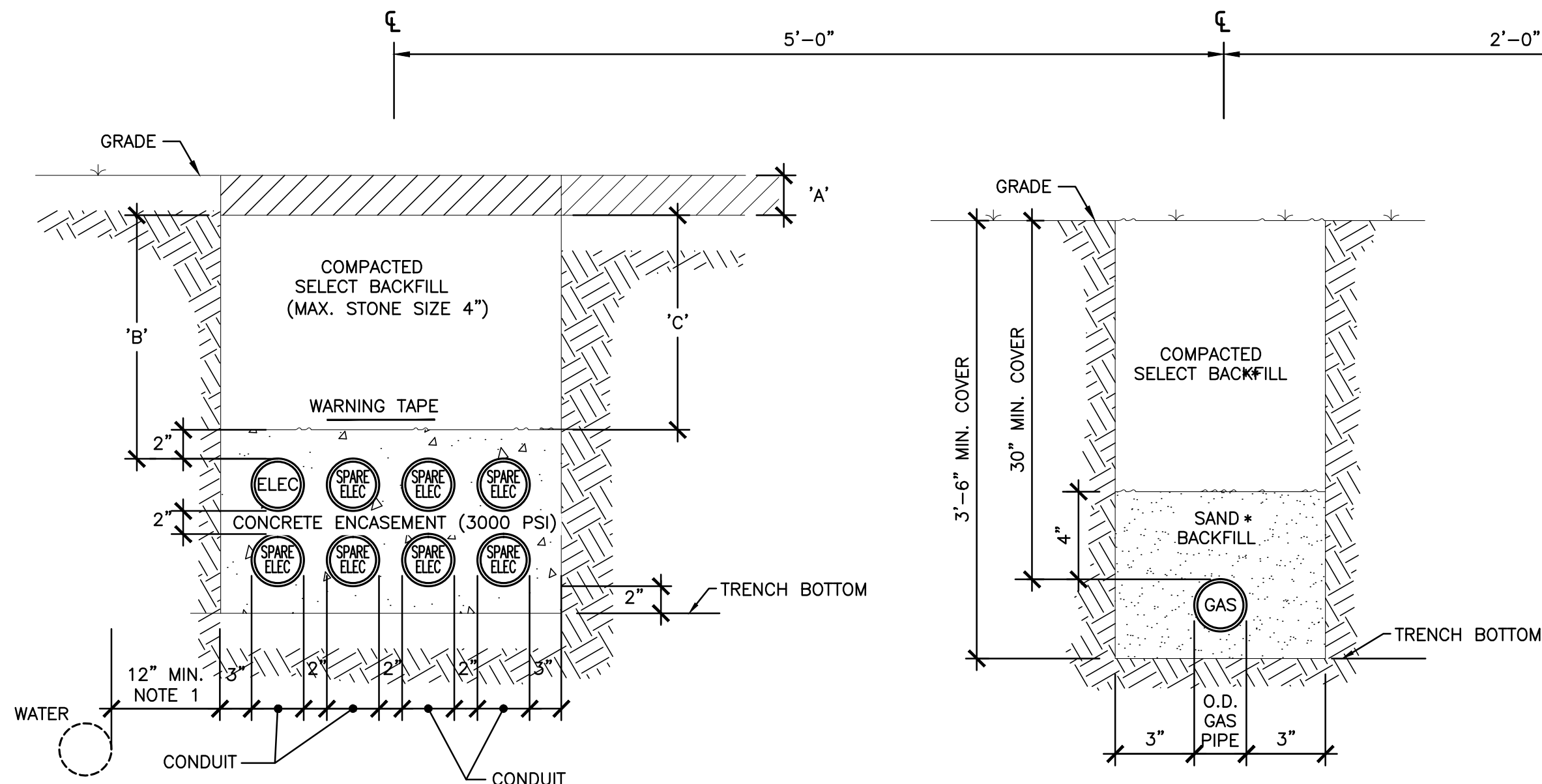
- NOTES:
- METAL CONDUIT (WHEN USED) IS TO BE GROUNDED WITH A MIN. #2 AWG CU BARE.
 - GROUND CABLE TO BE SOFT DRAWN 2/0 CU STR. BARE, EXCEPT AS NOTED IN TRANSCLOSURE.
 - ALL BELOW GRADE GROUND GRID SPLICES AND CONNECTIONS AND GROUND ROD CONNECTIONS ARE TO BE CALWELD PROCESS AND MUST BE INSPECTED BY O&RU ENGINEERING DEPARTMENT.
 - BOND PRIMARY CABLE ON RISER POLE TO ORANGE AND ROCKLAND UTILITIES DRIVEN GROUND ROD WITH #2 AWG CU. STR. USE CONDUIT GROUND CONNECTOR ON PRIMARY CONDUITS AND GROUND CLAMP ON O&RU. DRIVEN GROUND ROD.
 - ALL MATERIAL AND EQUIPMENT TO BE INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE SPECIFIED.
 - MIN. AIR SPACE CLEARANCE FOR BARE CONDUCTORS:
A) 13" BETWEEN PHASE WIRES.
B) ????" MIN PHASE TO GROUND.
 - ALL CABLE CONNECTIONS ARE TO BE COMPRESSION TYPE.
 - INSTALLATION TO CONFORM TO ALL ORANGE AND ROCKLAND UTILITIES STANDARDS.
 - WHEN THE INSTALLATION IS WITHIN 10 FEET OF ANOTHER GROUND GRID, THE TWO GROUND GRIDS SHALL BE CONNECTED TOGETHER AS PER NOTES 2 & 3 ABOVE.
 - A SEPARATE 600 V NEUTRAL (EQUAL IN SIZE TO PHASE CONDUCTORS) MUST BE INSTALLED WITH THE PHASE CONDUCTORS WHEN SHIELDED-JACKETED PRIMARY CABLE IS USED.
 - PROVIDE 10 FEET OF EXTRA SLACK IN EACH CABLE COILED IN BOX PAD.
 - CABINET TO BE GROUNDED AT ALL FOUR CORNERS.
 - ALL GROUNDS TO BE INTERCONNECTED.
 - FOLLOW MANUFACTURER'S PRIMARY CABLE TERMINATOR INSTALLATION INSTRUCTIONS EXCEPT FOR STRESS CONE GROUNDING WIRE, USE A SEPARATE #14 BARE CU CONDUCTOR AND CONNECT TO GROUND BUS.



2 PRIMARY METERING TRANSCLOSURE
N.T.S.



3 PRIMARY METERING WIRING SCHEMATIC
N.T.S.

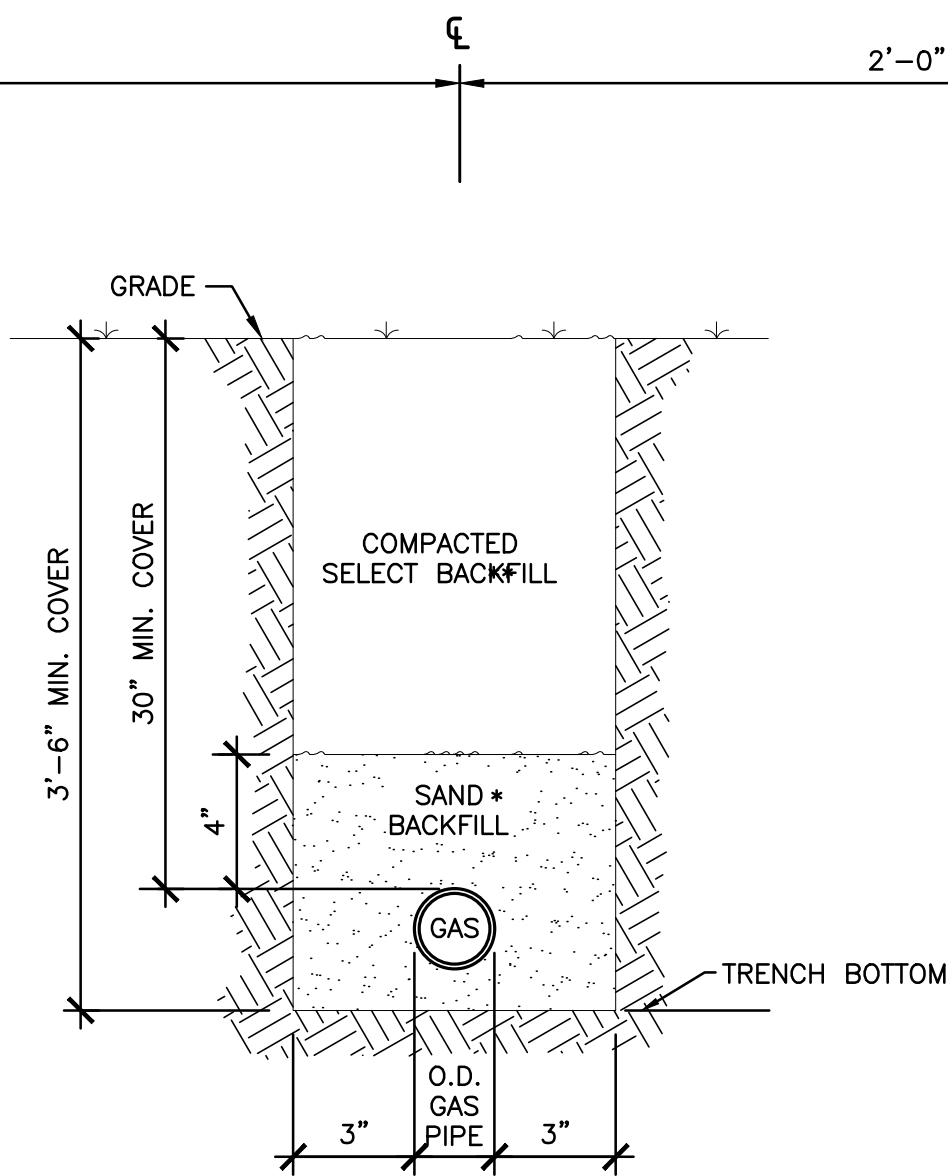


SYSTEM	'A'	'B'	'C'
PRIMARY - 15KV NO VEHICULAR TRAFFIC (RIGID METAL CONDUIT)	4" TOPSOIL WITH SOD	6"	6"
PRIMARY - 15KV W/ VEHICULAR TRAFFIC (RIGID METAL CONDUIT)	TO MATCH ADJACENT	24"	24"

NOTES:

- MINIMUM CLEARANCE TO OTHER UTILITIES SUCH AS WATER & SEWER. CONSULT OTHER UTILITY FOR CLEARANCES OR LOCAL ORDINANCES.
- VERTICAL CONFIGURATION ACCEPTABLE - MAINTAIN SAME SPACING.
- PRIMARY CABLE: (3) 4/0, (1) #6 GROUND, TRXLP WITH CONCENTRIC NEUTRAL.
- PROVIDE (6) SPARE 4" ELECTRIC CONDUITS, (1) 4" SPARE DATA CONDUIT

4 PHASE 1 - TRENCH CONFIGURATION
N.T.S.

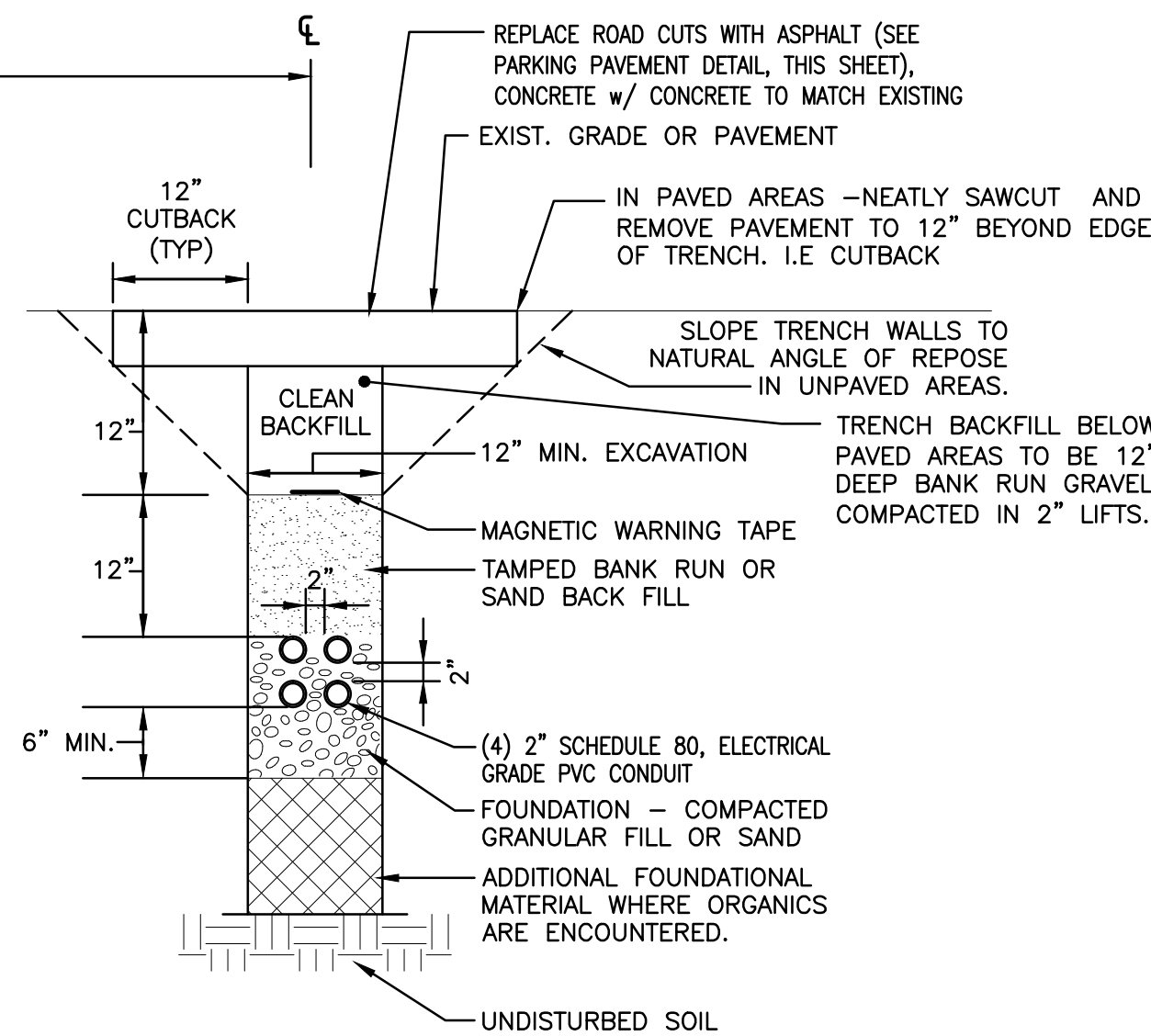


NOTES:

- MINIMUM CLEARANCE TO OTHER UTILITIES SUCH AS WATER & SEWER. CONSULT OTHER UTILITY FOR CLEARANCES OR LOCAL ORDINANCES.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCH EXCAVATION AND BACKFILL. GAS PIPING SHALL BE BY UTILITY COMPANY.

* SAND BACKFILL - MAX. PEBBLE SIZE 1"
** SELECT BACKFILL - MAX. STONE SIZE 4"

5 GAS PIPING TRENCH DETAIL
N.T.S.



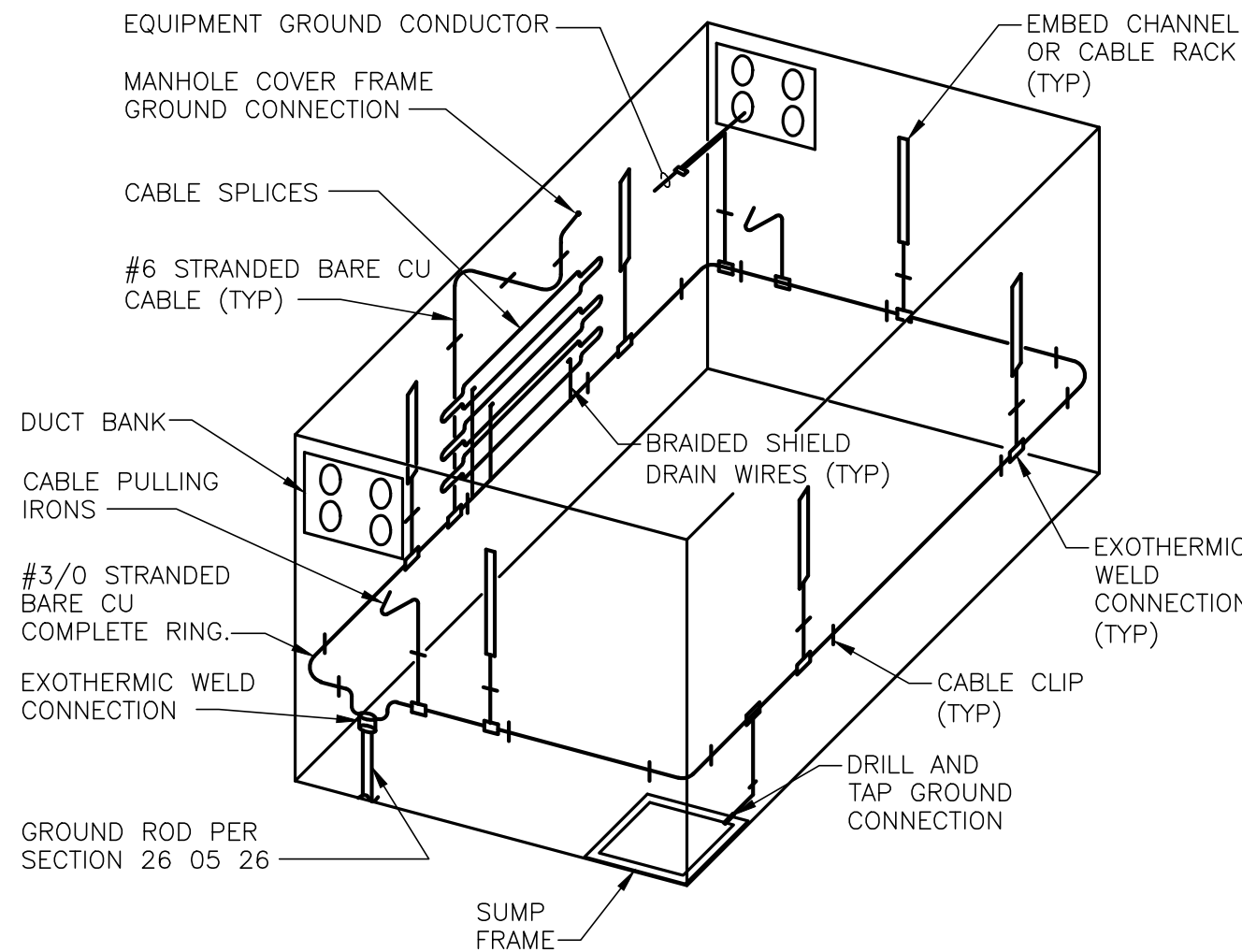
6 TYPICAL FIBER OPTIC CONDUIT TRENCH
N.T.S.

7 COMMON UTILITY TRENCH CONFIGURATION
N.T.S.

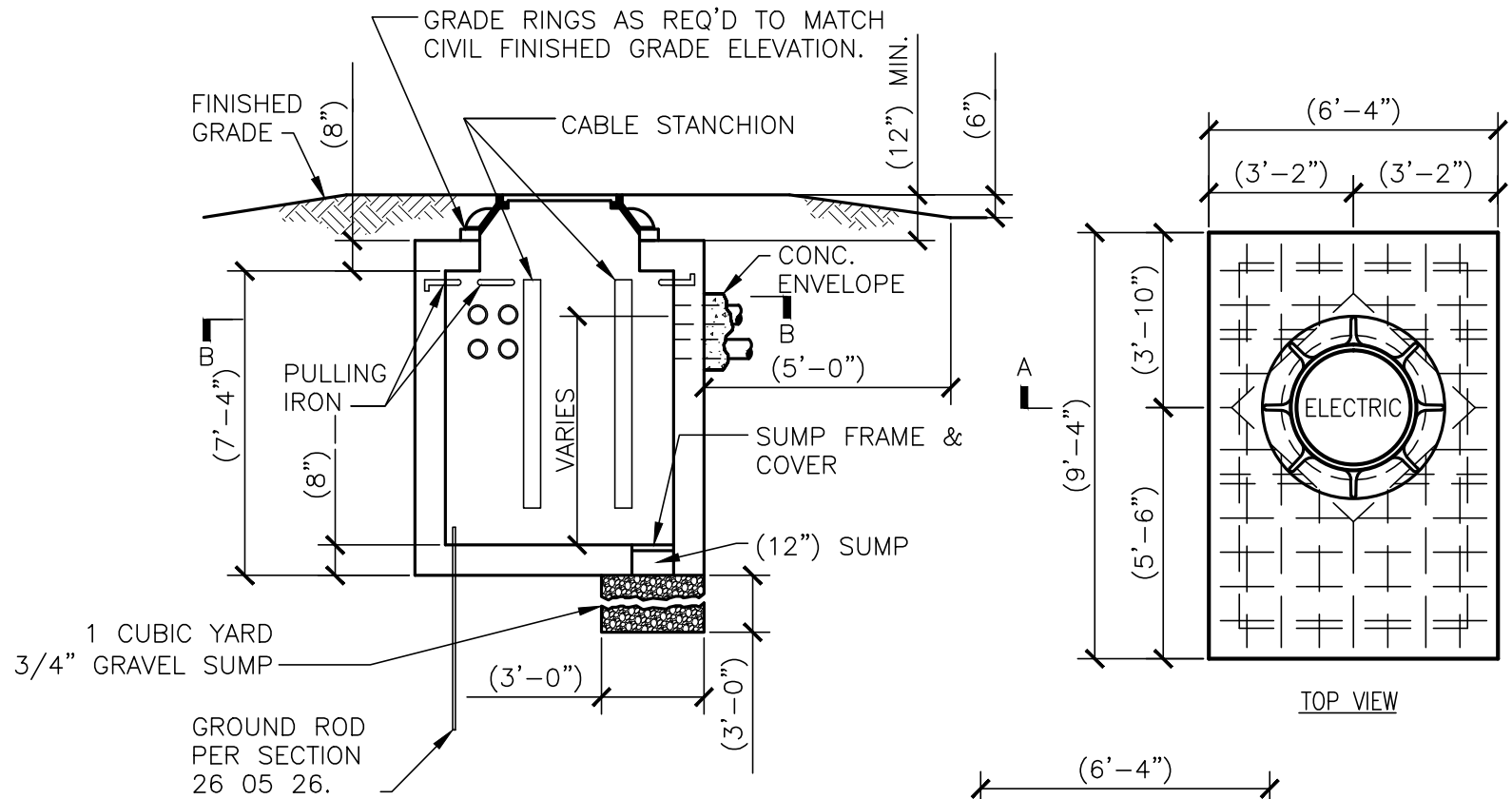
REV #	DATE	REMARKS:	ISSUE #	DATE	ISSUED FOR:
1/8" 1/4" 1/2" 0 1" 2"					
REFERENCE SCALE					
UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW.					
FELLENZER III ENGINEERING LLP www.fellp.com 22 Mulberry St., Suite 2A, Middletown, NY 10940 t 845-343-1481 fx 845-343-4986 181 Church St., Suite 100, Poughkeepsie, NY 12601 t 845-454-9704 fx 855-320-8735					
PROJECT TITLE: DOVER GREENS UTILITIES ROUTING TOWN OF DOVER, DUTCHESS COUNTY, NEW YORK					
DRAWING TITLE: SITE UTILITY DETAILS					
DESIGNED BY: DLH	DRAWN BY: SAR	APPROVED BY PM: ACL	APPROVED BY PIC: JDF	DRAWING #: ES-702	
DATE: 07/17/15	SCALE: AS SHOWN	FE PROJECT #:		15-153	
				PAGE 18 OF 19	



PROGRESS PRINT
7/19/16
NOT FOR CONSTRUCTION



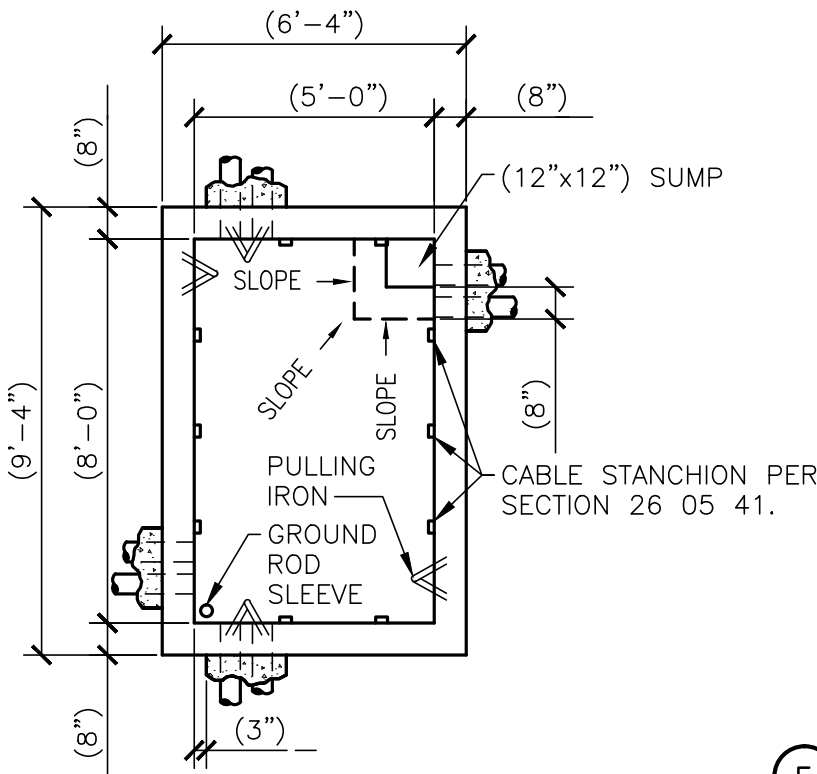
1 MANHOLE GROUNDING DETAILS
N.T.S.



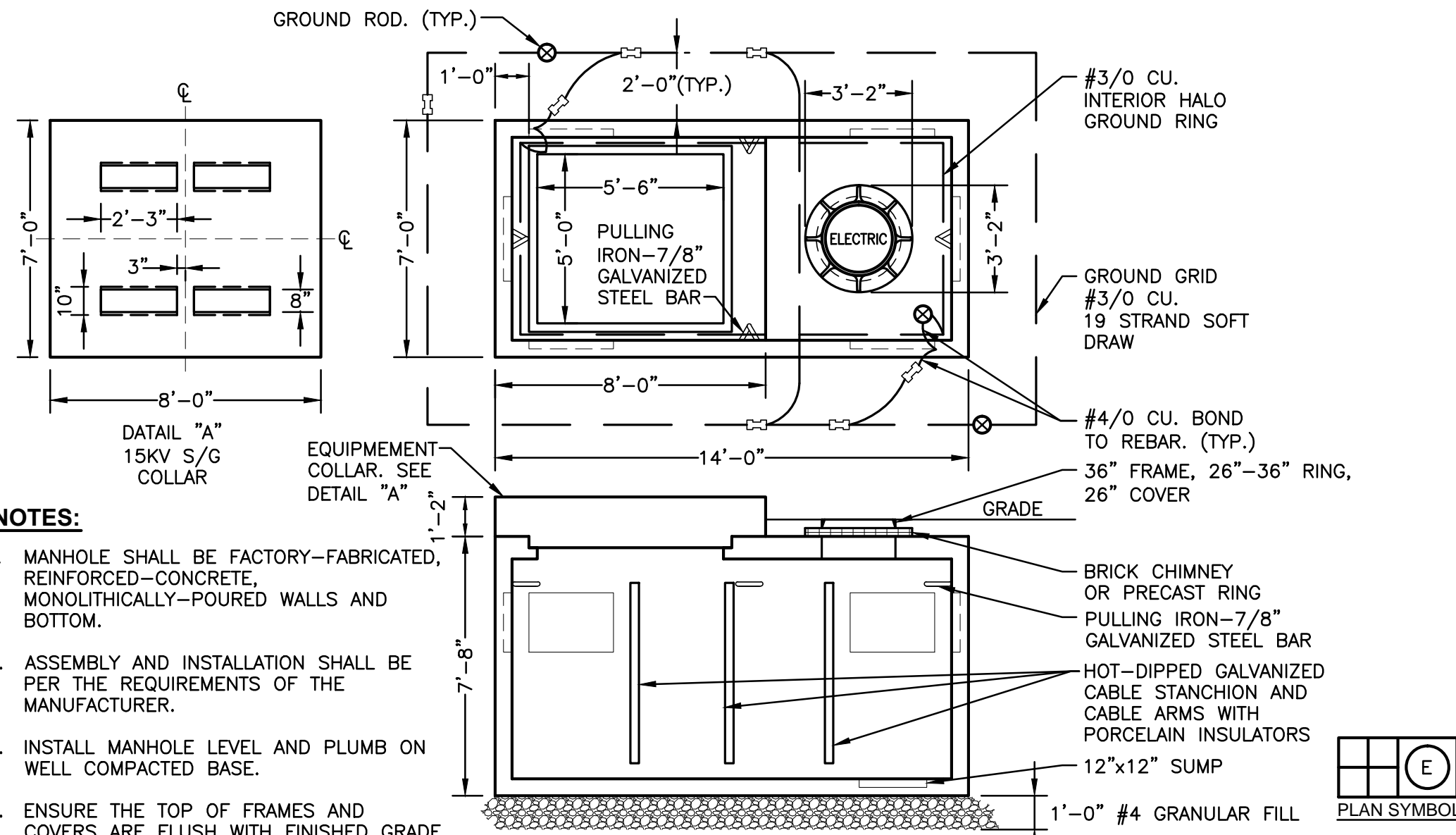
GENERAL NOTE:

1. INCLUDE ALUMINUM LADDER (NOT SHOWN FOR CLARITY)

SECTION "A-A"



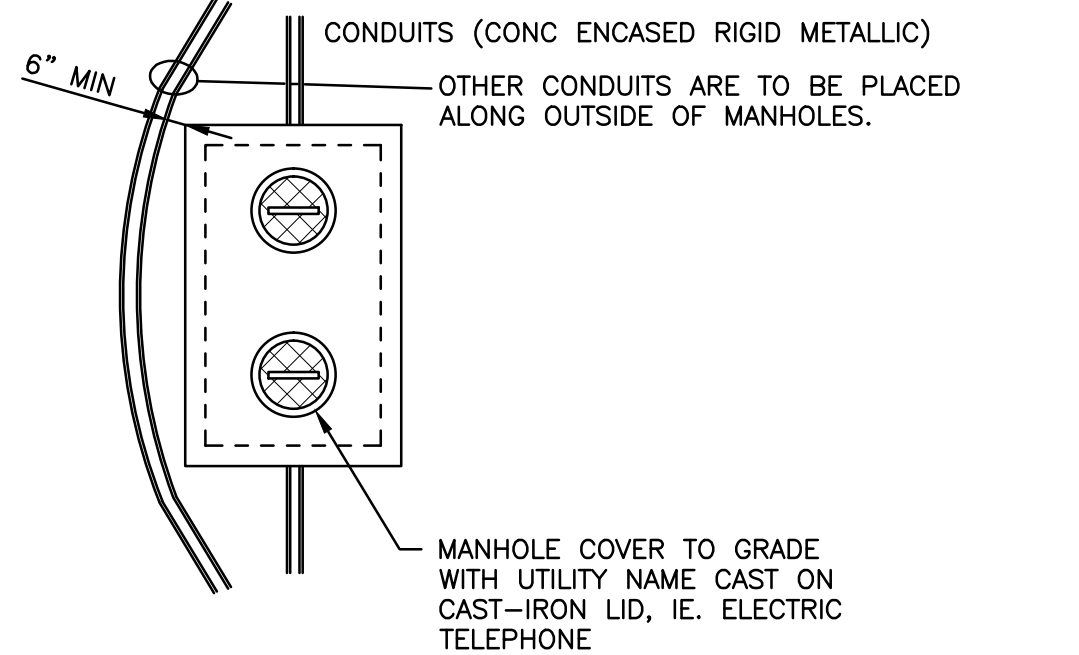
5 ELECTRIC MANHOLE DETAILS
N.T.S.



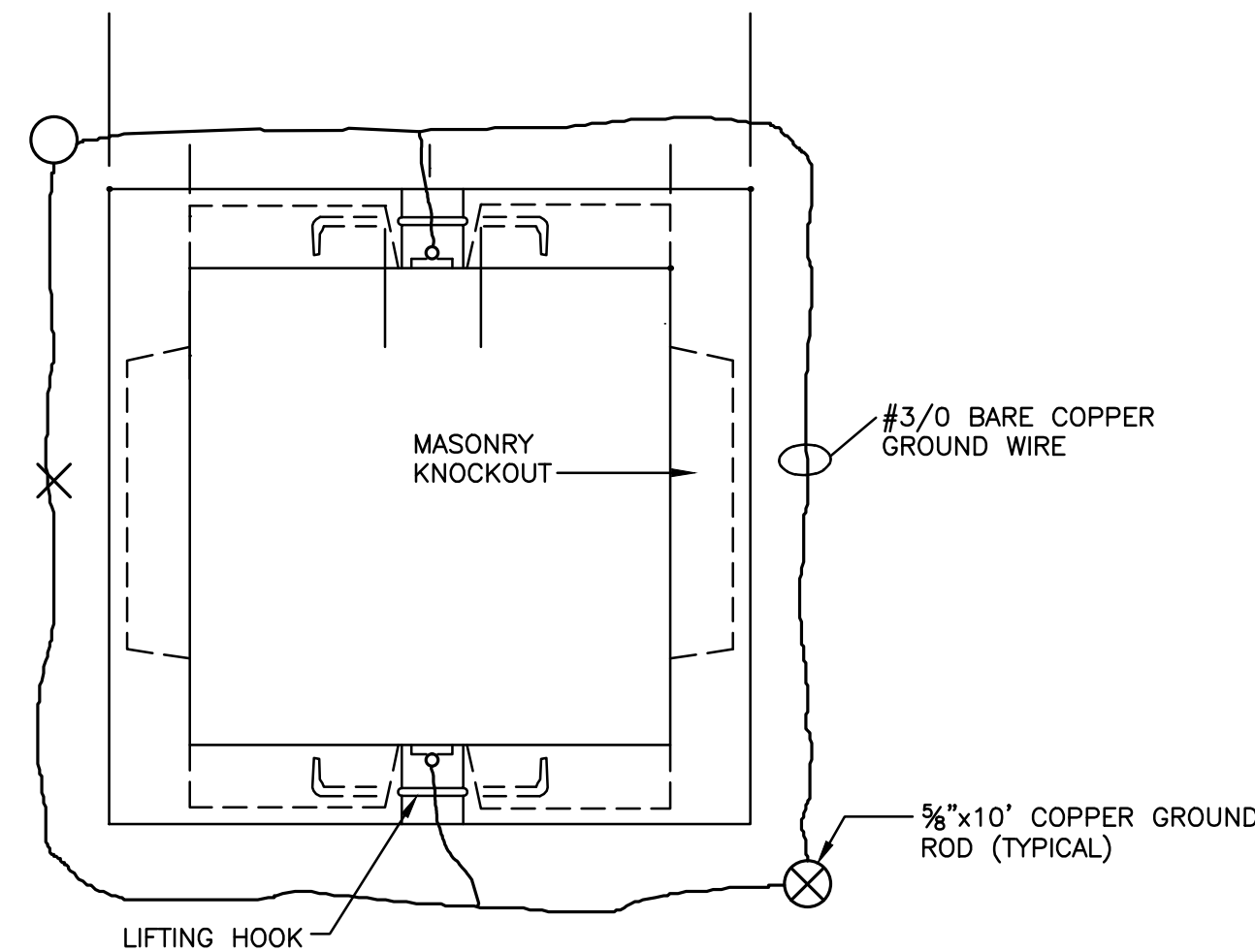
NOTES:

1. MANHOLE SHALL BE FACTORY-FABRICATED, REINFORCED-CONCRETE, MONOLITHICALLY-POURED WALLS AND BOTTOM.
2. ASSEMBLY AND INSTALLATION SHALL BE PER THE REQUIREMENTS OF THE MANUFACTURER.
3. INSTALL MANHOLE LEVEL AND PLUMB ON WELL COMPACTED BASE.
4. ENSURE THE TOP OF FRAMES AND COVERS ARE FLUSH WITH FINISHED GRADE.
5. PROVIDE S&C SWITCH PER SCHEDULE WITH 12\"/>

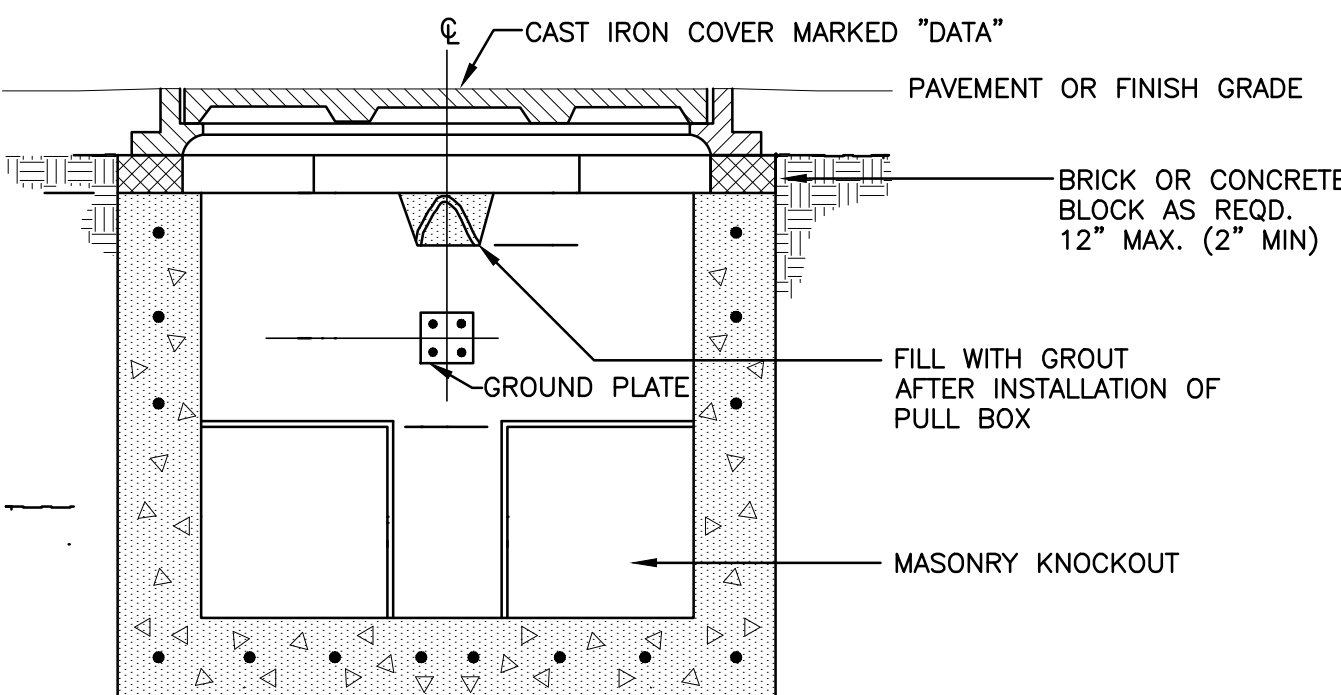
8 ELECTRIC MANHOLE WITH SWITCHGEAR DETAIL
N.T.S.



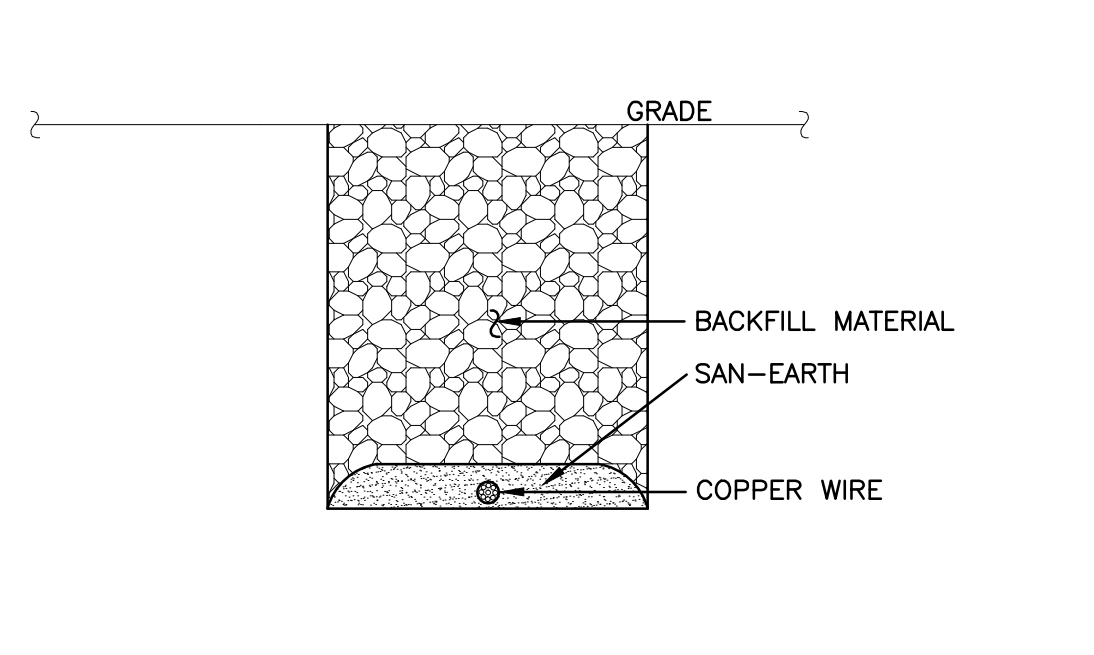
2 PLAN VIEW OF MANHOLE INSTALLATION
N.T.S.



6 DATA PULLBOX DETAIL
N.T.S.

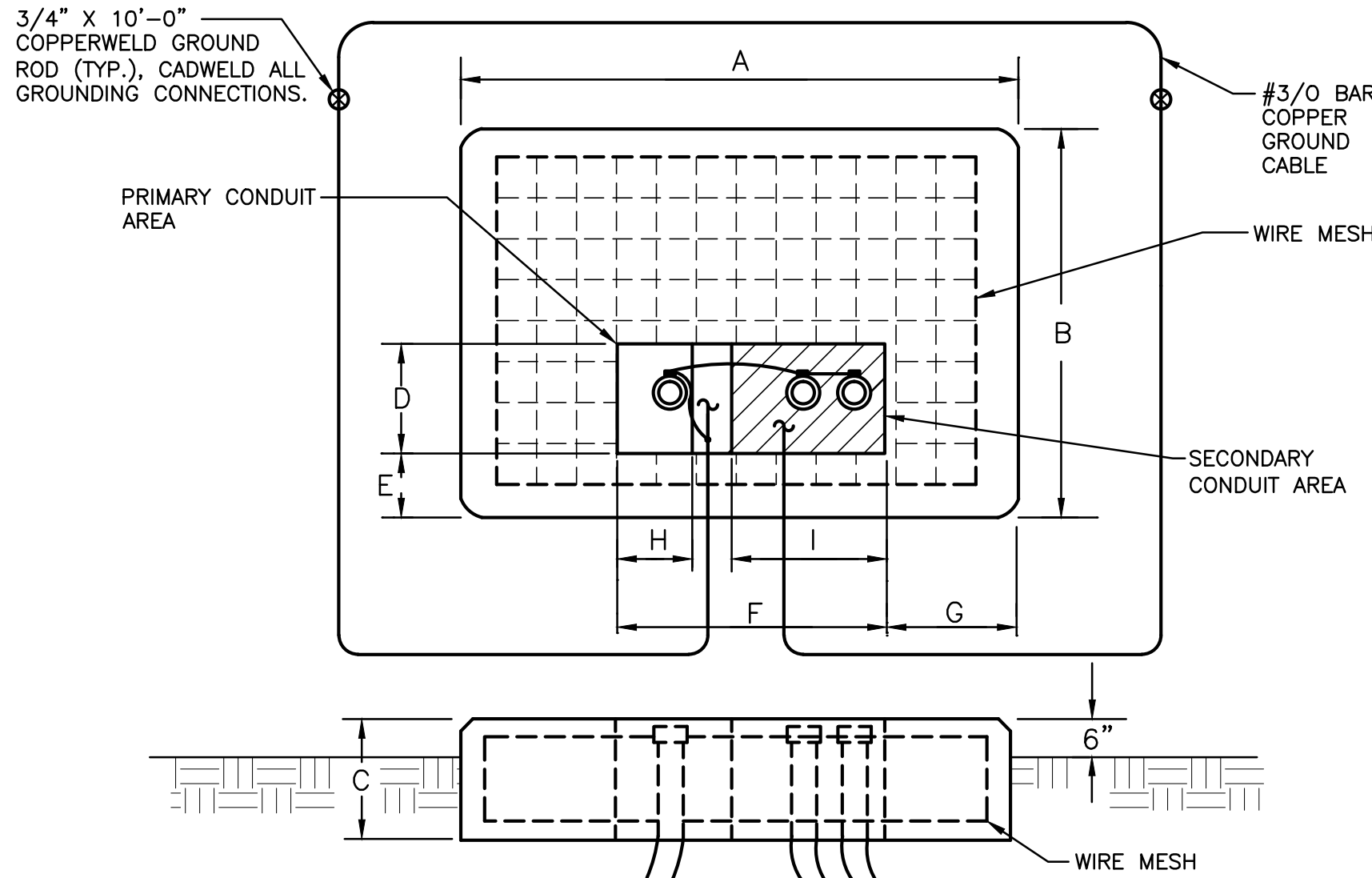


7 BOLLARD POST DETAIL
N.T.S.



3 GROUND ELECTRODE CONFIGURATION
N.T.S.

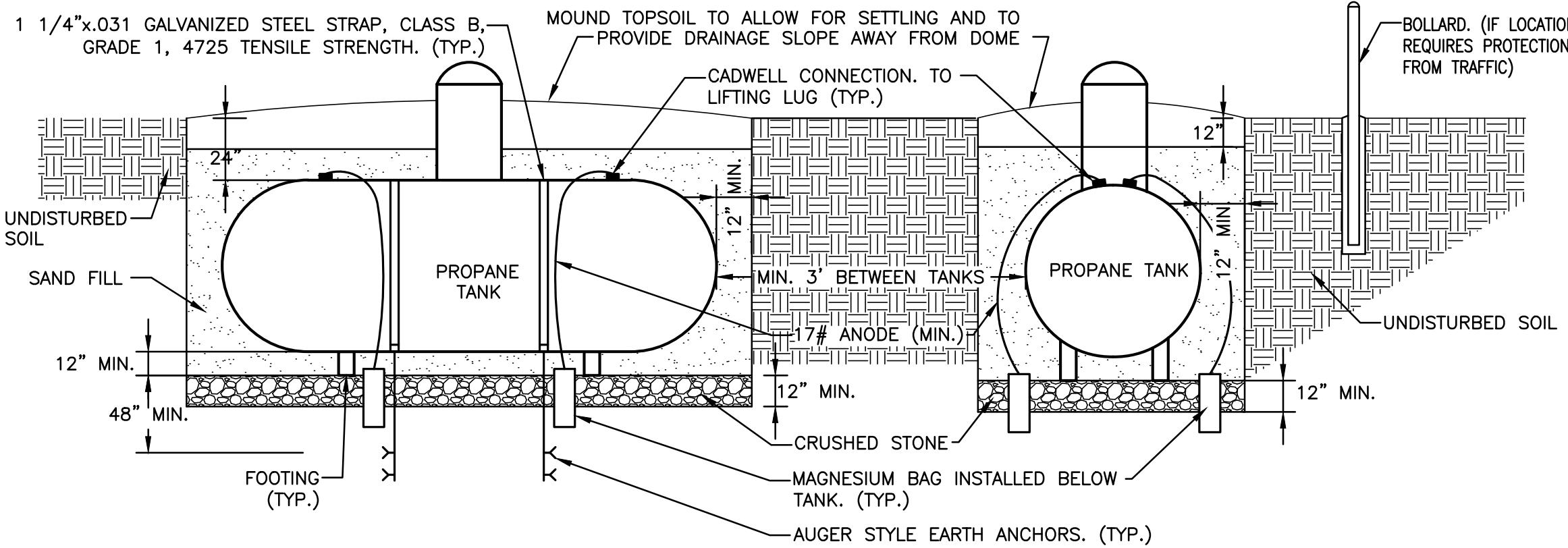
TRANSFORMER SIZE-KVA	A	B	C	D	E	F	G	H	I
75-225	8'-0"	6'-6"	1'-0"	1'-1"	1'-4"	3'-0"	2'-6"	1'-0"	1'-4"
300-500	8'-6"	7'-3"	1'-0"	1'-1"	1'-4"	3'-6"	2'-0"	1'-0"	1'-6"
750-1000	9'-0"	7'-8"	1'-0"	1'-1"	10"	3'-6"	2'-6"	1'-0"	1'-6"
1500-2500	11'-0"	9'-2"	1'-6"	1'-6"	10"	3'-6"	3'-6"	1'-0"	2'-0"



NOTES:

1. PAD SHALL HAVE 3'-0" OF CRUSHED STONE BENEATH.
2. CONCRETE PAD SHALL CONTAIN 6" x 6" x 6/6 WIRE MESH.
3. SECONDARY TO TRANSFORMER SHALL SUIT LOAD AND SITE CONDITIONS.
4. CONDUITS NOT TO EXTEND ABOVE PAD.
5. CHAMFER ALL EXPOSED EDGES.
6. IF REQUIRED, TWO (2) CONDUITS MAY BE USED IN PRIMARY CONDUIT AREA.

4 THREE PHASE TRANSFORMER PAD DETAIL
N.T.S.



NOTES:

1. COORDINATE FINAL DIMENSIONS AND REQUIREMENTS WITH TANK MANUFACTURER.
2. ASME 500-2000 GALLON CONTAINER SHALL BE PROTECTED BY A CATHODIC SYSTEM AND AN EXTERIOR COATING RATED FOR UNDERGROUND INSTALLATION.
3. YEARLY CATHODIC PROTECTION TESTING IS REQUIRED.
4. ALL TANKS 2,000 GALLONS OR LESS SHALL BE A MINIMUM OF 10' FROM ANY BUILDING.
5. REGARDLESS OF THE TANK SIZE, ALL ASME TANKS THAT ARE FILLED ON-SITE MUST BE LOCATED SO THAT THE FILLING CONNECTION AND LIQUID LEVEL GAUGE ARE A MINIMUM OF 10 FEET AWAY FROM ANY EXTERNAL SOURCE OF IGNITION (I.E. ANY OPEN FLAME, PILOT LIGHT, WINDOW A/C, COMPRESSOR, ETC), INTAKE TO DIRECT VENTED GAS APPLIANCE OR INTAKE TO A MECHANICAL VENTILATION SYSTEM

9 UNDERGROUND LIQUID PETROLEUM GAS TANK DETAIL
N.T.S.

REV #	DATE	REMARKS:	ISSUE #	DATE	ISSUED FOR:
<div>1/8" 1/4" 1/2" 0 1" 2"</div> <div>REFERENCE SCALE</div>					
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DESIGNED BY: DLH	DRAWN BY: SAR	APPROVED BY P.M.: ACL	APPROVED BY P.I.C.: JDF	DRAWING #: ES-703	
DATE: 07/17/15	SCALE: AS SHOWN	FE PROJECT #:		PAGE 19 OF 19	