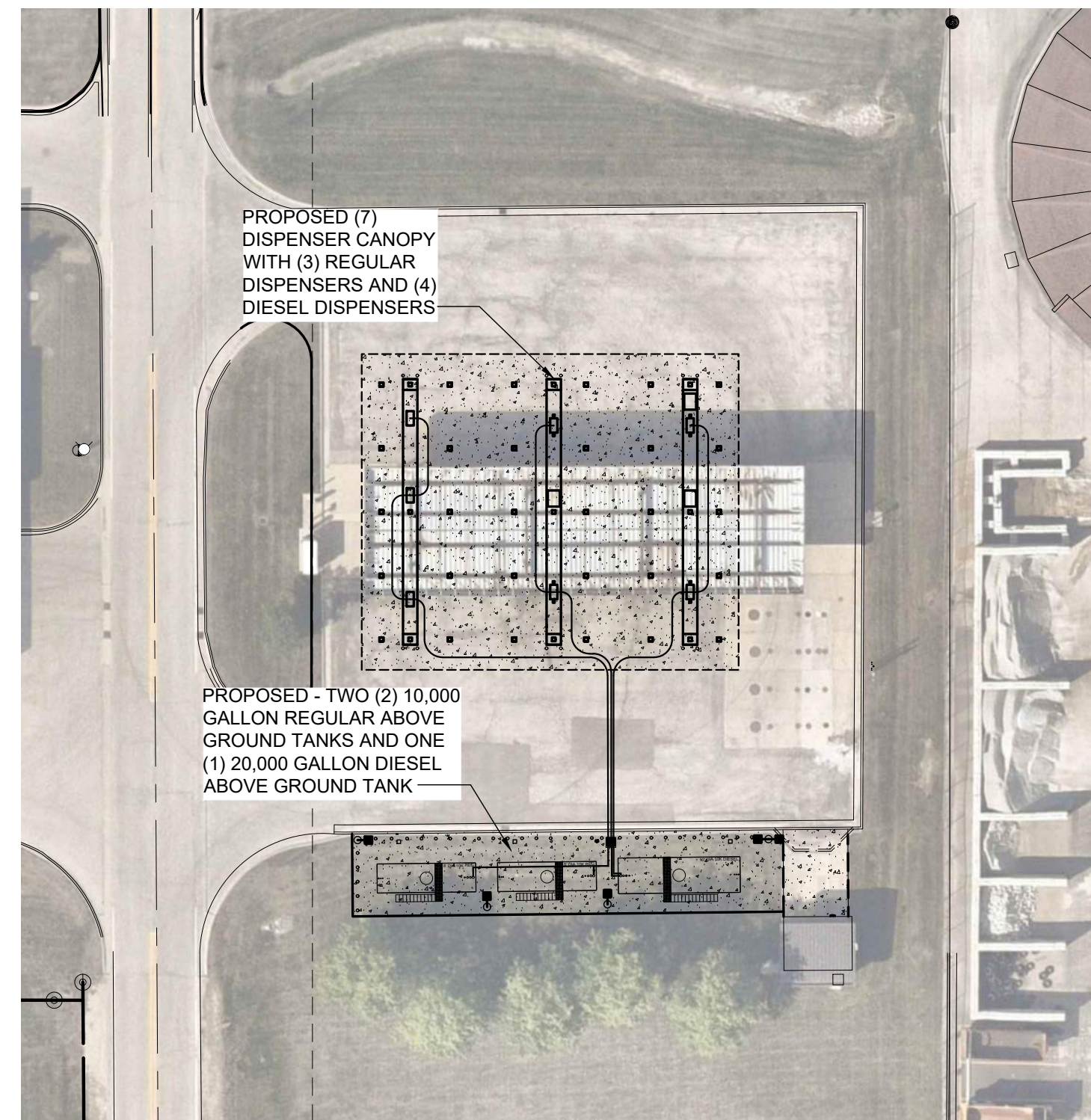


- ### GENERAL NOTES
- ALL CONTRACTORS AND SUBCONTRACTORS WILL THOROUGHLY FAMILIARIZE THEMSELVES WITH THESE CONSTRUCTION DOCUMENTS AND WILL VERIFY EXISTING SITE AND CONDITIONS PRIOR TO SUBMITTING A BID. ALL SUBCONTRACTORS WILL PROVIDE ALL LABOR, SUPERVISION, AND MATERIALS OF EVERY TYPE WHICH MAY BE NECESSARY FOR A SUCCESSFUL COMPLETION. ALL WORK TO BE PERFORMED IN A GOOD AND WORKMANLIKE MANNER ACCORDING TO THE TRUE INTENT AND MEANING OF THE DRAWINGS AND SPECIFICATIONS.
 - THIS ARCHITECT AND HIS PROFESSIONAL CONSULTANTS WILL NOT HAVE CONTROL, OF AND WILL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK ON THIS PROJECT OR FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK ON THIS SITE, NOR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE INTENT OF THE CONTRACT AND OR CONSTRUCTION DOCUMENTS.
 - ALL CONTRACTORS WILL PROVIDE ADEQUATE BRACING AND/OR SHORING TO INSURE STRUCTURAL STABILITY OF THE BUILDING AND ALL RELATED BUILDING COMPONENTS IE: STRUCTURAL WALLS, INTERIOR WALL ASSEMBLIES, ETC. DURING THE CONSTRUCTION PHASE OF THIS PROJECT.
 - WORK WILL BE COORDINATED WITH ALL TRADES IN ORDER TO AVOID INTERFERENCE, AND AVOID OMISSIONS.
 - ALL MATERIALS USED WILL BE NEW AND BEAR U.L. LABELS WHERE REQUIRED AND MEET APPROPRIATE N.E.M.A. STANDARDS.
 - LAYOUT ALL PARTITIONS BEFORE BEGINNING CONSTRUCTION TO PREVENT ERRORS BY DISCREPANCY. ALL DRYWALL PARTITIONS WILL BE INSTALLED AS NOTED ON THE DRAWINGS.
 - EACH SUBCONTRACTOR WILL AMEND AND MAKE GOOD AT HIS OWN COST, ANY DEFECTS OR OTHER FAULTS IN HIS WORKMANSHIP AND/OR HIS SUPPLIED MATERIALS.
 - ALL CONTRACTORS WILL GUARANTEE ALL LABOR AND MATERIALS FOR A PERIOD OF ONE YEAR FROM DATE OF OCCUPANCY.
 - VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO ORDERING, CUTTING AND/OR INSTALLING MATERIAL, PRODUCT OR EQUIPMENT. IN THE EVENT OF ANY DISCREPANCIES, CONTACT THE CONSTRUCTION MANAGER OR OWNER BEFORE PROCEEDING WITH THAT WORK.
 - ALL SUBCONTRACTORS WILL PROVIDE A CERTIFICATE OF INSURANCE TO THE GENERAL CONTRACTOR PRIOR TO STARTING ANY WORK ON THIS PROJECT. CERTIFICATE OF INSURANCE CANNOT BE TERMINATED OR CANCELED WITHOUT 10 DAYS PRIOR WRITTEN NOTICE TO THE OWNER.
 - ANY ADDITIONS OR CHANGES TO WORK MUST BE AUTHORIZED IN WRITING BY THE CONSTRUCTION MANAGER OR OWNER. NO ALTERATIONS WILL BE MADE ON THIS PROJECT EXCEPT UPON WRITTEN ORDER BY THE CONSTRUCTION MANAGER.
 - WEATHER CONDITIONS: CONTRACTORS WILL PROTECT ALL PARTS OF THEIR WORK FROM WEATHER DAMAGE DUE TO FROST, RAIN, HEAT, ETC. AND WILL MAKE GOOD TO THE SATISFACTION OF THE CONSTRUCTION MANAGER AND/OR GENERAL CONTRACTOR ANY PORTION OF THE WORK WHICH MAY HAVE BECOME DAMAGED.
 - RESPONSIBILITY OF CONTRACTOR: EACH SUBCONTRACTOR IS RESPONSIBLE FOR WORKMANSHIP AND MATERIALS. EACH SUBCONTRACTOR IS RESPONSIBLE FOR THE CARE AND PROTECTION OF HIS OWN WORK AND MATERIALS.
 - SITE SAFETY: EACH CONTRACTOR WILL ABIDE BY LOCAL AREA STANDARDS AND RELATED OSHA STANDARDS FOR THE PROTECTION AND SAFETY FOR THEIR EMPLOYEES ON SITE. THIS ARCHITECT AND HIS PROFESSIONAL CONSULTANTS WILL BE HELD HARMLESS BY THE OWNER, GENERAL CONTRACTOR AND RELATED AWARDED TRADES ON THIS PROJECT FOR ACCIDENTS OR INJURIES CAUSED OR ACCRUED ON THIS PROPERTY DURING THE PRE/ACTUAL/POST CONSTRUCTION PHASES OF THIS PROJECT.
 - PILFERAGE: EACH CONTRACTOR WILL BE RESPONSIBLE FOR HIS OWN EQUIPMENT AND MATERIALS USED IN CONSTRUCTION INCLUDING THOSE ITEMS, FURNISHED BY THE OWNER, AND DELIVERED TO THE JOB SITE, TO BE INSTALLED BY THE CONTRACTOR. THE OWNER WILL NOT BE HELD LIABLE FOR STOLEN EQUIPMENT, MATERIALS OR DAMAGE OF THE SAME ON THIS JOB SITE.
 - LIENS: ALL SUBCONTRACTORS AND THE GENERAL CONTRACTOR WILL DELIVER TO THE OWNER, A COMPLETE RELEASE OF ALL CLAIMS ARISING OUT OF THIS CONTRACT.
 - GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR REMOVAL OF DEBRIS ACCUMULATED BY EACH TRADE. HOWEVER, EACH TRADE WILL KEEP THE JOB SITE CLEAN AND SAFE AT ALL TIMES, ALONG WITH A BROOM FINISH AT THE END OF EACH WORKING DAY.
 - SCHEDULE OF WORK: THE OWNER CONSTRUCTION MANAGER WILL COORDINATE WITH THE GENERAL CONTRACTOR DURING THE BIDDING PROCESS. THE REQUIRED NUMBER OF CALENDAR DAYS TO COMPLETE THIS WORK.

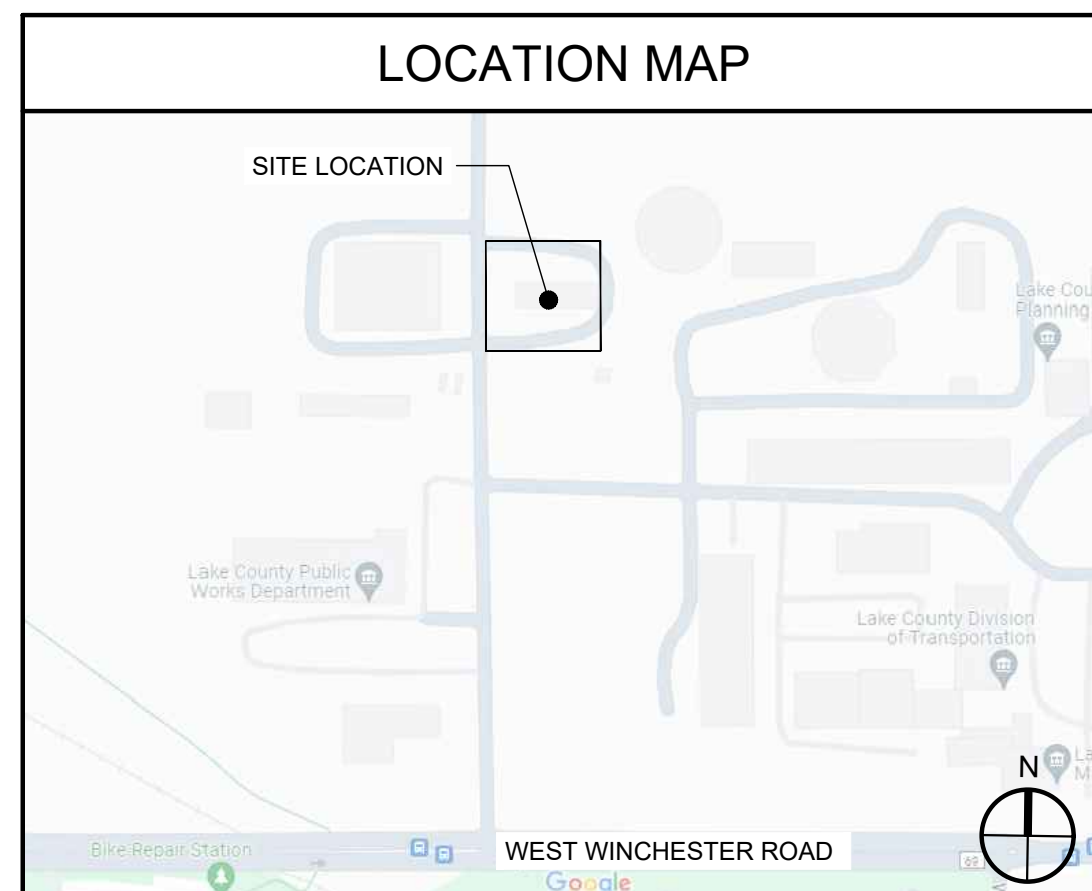
LAKE COUNTY - DIVISION OF TRANSPORTATION FUEL ISLAND REPLACEMENT 600 WEST WINCHESTER ROAD LIBERTYVILLE, IL 60048



DRAWING INDEX

| GENERAL | |
|------------------|---|
| G001 | COVER SHEET |
| FUELING DRAWINGS | |
| D001 | DEMOLITION SITE PLAN |
| A001 | TANK AND PIPING PLAN |
| A002 | DISPENSER DETAILS |
| A003 | TANK DETAILS |
| A004 | CANOPY DETAILS |
| ELECTRICAL | |
| E001 | TANK AND PIPING ELECTRICAL PLAN AND SCHEDULES |
| E101 | ELECTRICAL DETAILS AND DIAGRAMS |
| E102 | SYMBOLS AND SPECIFICATIONS |
| ES101 | ELECTRICAL SITE PLAN & DETAILS |

NOTE:
CIVIL DRAWINGS ARE UNDER SEPARATE DRAWING SET.



GENERAL BUILDING INFORMATION

VILLAGE OF LIBERTYVILLE ADOPTED CODES

| | |
|---------|--|
| 2018 | INTERNATIONAL BUILDING CODE |
| 2018 | INTERNATIONAL FIRE CODE |
| 2018 | INTERNATIONAL MECHANICAL CODE |
| 2017 | NATIONAL ELECTRICAL CODE |
| 2014 | ILLINOIS PLUMBING CODE |
| 2018 | ILLINOIS ACCESSIBILITY CODE |
| 2018 | INTERNATIONAL ENERGY CONVERSATION CODE |
| 2018 | INTERNATIONAL FUEL GAS CODE |
| CURRENT | ADOPTED AMENDMENTS |

BUILDING DATA

ZONING CLASSIFICATION: N/A

STATEMENT OF COMPLIANCE

I, CHRISTIAN KALISCHEFSKI, A.I.A., DULY LICENSED IN THE STATE OF ILLINOIS BY THE DEPARTMENT OF PROFESSIONAL REGULATION, DO HEREBY STATE THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF DOES CONFORM TO THE APPLICABLE BUILDING CODES AND ORDINANCES, AND ARE IN COMPLIANCE WITH THE ENVIRONMENTAL BARRIERS ACT (410 ILLS 25) AND THE ILLINOIS ACCESSIBILITY CODE (71 III.ADM. CODE 400).

DATE: _____

CHRISTIAN KALISCHEFSKI
ILLINOIS REGISTRATION NUMBER: 001-012930
DATE OF EXPIRATION: NOVEMBER 30, 2024

SCOPE OF WORK

THE SCOPE OF THIS SUBMITTAL IS THE REMOVAL OF THE EXISTING FUEL ISLAND INCLUDING THE REMOVAL ALL EIGHT (8) EXISTING DISPENSERS, FOUR (4) ISLANDS, UNDERGROUND PIPING, CANOPY COLUMNS, CANOPY AND ALL FOUR (4) EXISTING UNDERGROUND TANKS. THIS SCOPE ALSO INCLUDES THE INSTALLATION OF SEVEN (7) NEW DISPENSERS, THREE (3) NEW FUELING ISLANDS, A NEW FUELING CANOPY AND THREE (3) NEW ABOVE GROUND FUEL TANKS. TWO (2) 10,000 GALLON FOR REGULAR AND ONE (1) 20,000 GALLON FOR DIESEL FUEL.

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XXX STATE CERTIFICATE OF AUTHORITY
ILL. NO. 184.007570-0015 EXPIRES: 04-30-2025 WTG JOB: 02300047

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ISSUANCE

| NO | DATE | DESCRIPTION |
|----|------------|--------------------|
| - | 02.02.2024 | OWNER'S REVIEW SET |
| - | 03.06.2024 | OWNER'S REVIEW SET |
| - | 03.18.2024 | BID SET |
| - | 04.01.2024 | VARIANCE REQUEST |
| - | 04.12.2024 | ADDENDUM #1 |

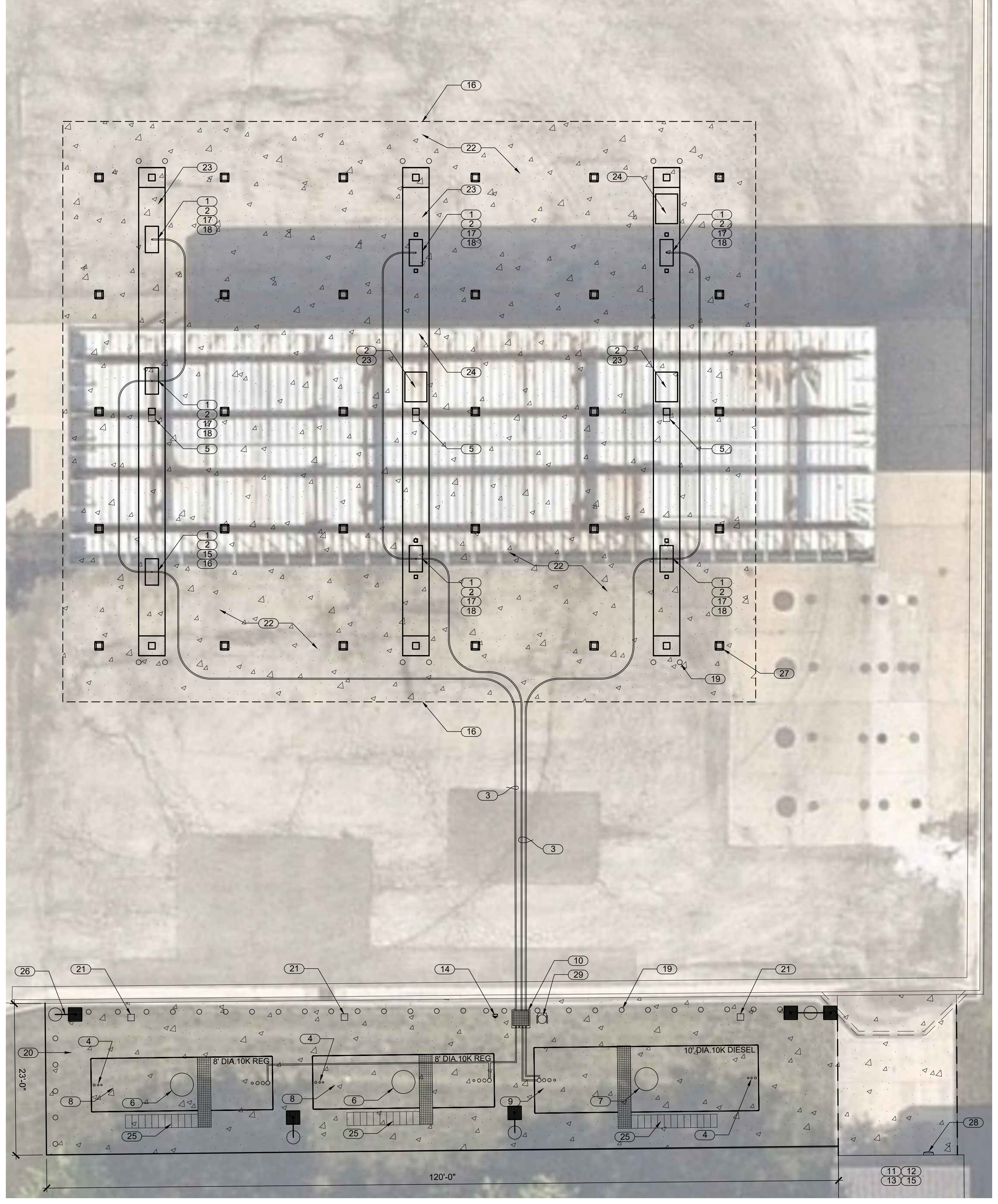
LAKE COUNTY FUEL ISLAND REPLACEMENT
LAKE COUNTY DIVISION OF TRANSPORTATION
600 WEST WINCHESTER ROAD
LIBERTYVILLE, ILLINOIS 60048

Project Status

COVER SHEET

SHEET NO. **G001**

JOB NO. 23-3764.02
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1 TANK AND PIPING PLAN
SCALE: 1" = 10'-0"

CONCRETE NOTES

1. CONCRETE SHALL BE MINIMUM 28 DAY, 4,000 PSI COMPRESSIVE STRENGTH.
2. CONCRETE WORK SHALL BE INSTALLED IN STRICT ACCORDANCE OF THE REQUIREMENTS OF THE LATEST EDITIONS OF THE ACI 301, ACI 315 AND ACI 318.
3. ANY COLD WEATHER ACI RECOMMENDATIONS SHALL BE FOLLOWED AND CONCRETE SHALL BE COVERED AND KEPT CONTINUOUSLY DAMP FOR A MINIMUM OF 5 DAYS.
4. REBAR SHALL BE A615-60 STRUCTURAL BILLET STEEL.
5. WATER STOPS SHALL BE INSTALLED WHERE INDICATED AT ALL COLD POURED JOINTS AS SHOWN ON THE TRANSFER LANE CONTAINMENT SUMP TRENCH DETAILS, AND WHERE INDICATED WITHIN THE DIKE. WATER STOPS SHALL BE AMMONIA AND DISTILLATE FUEL RESISTANT. MANUFACTURER'S STRICT INSTRUCTIONS SHALL BE FOLLOWED FOR INSTALLATION OF ANY SPLICES.

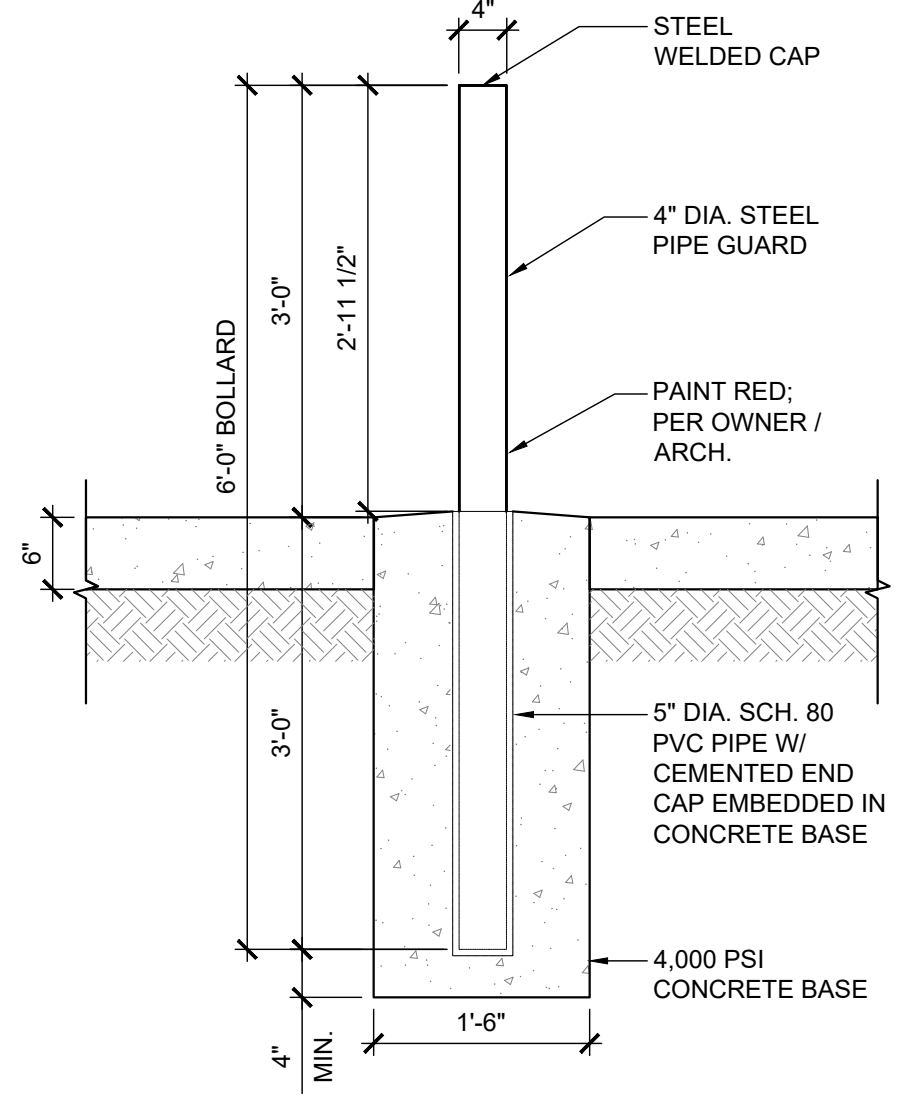
GENERAL NOTES

BONDING AND GROUNDING SHALL BE IN COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES. THE FOLLOWING STANDARDS AND CODES SHALL APPLY:
 -API RP 2003, PROTECTION AGAINST IGNITIONS ARISING OUT OF STATIC, LIGHTNING, AND STRAY CURRENTS.
 -NFPA 30 (2024), FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE
 -NFPA 70, NATIONAL ELECTRICAL CODE (NEC)
 -NFPA 77, RECOMMENDED PRACTICE ON STATIC ELECTRICITY
 -CALIFORNIA CODE OF REGULATIONS, SUBCHAPTER 15, PETROLEUM SAFETY ORDERS - REFINING, TRANSPORTATION AND HANDLING, ARTICLE 5, FIRE AND EXPLOSIONS

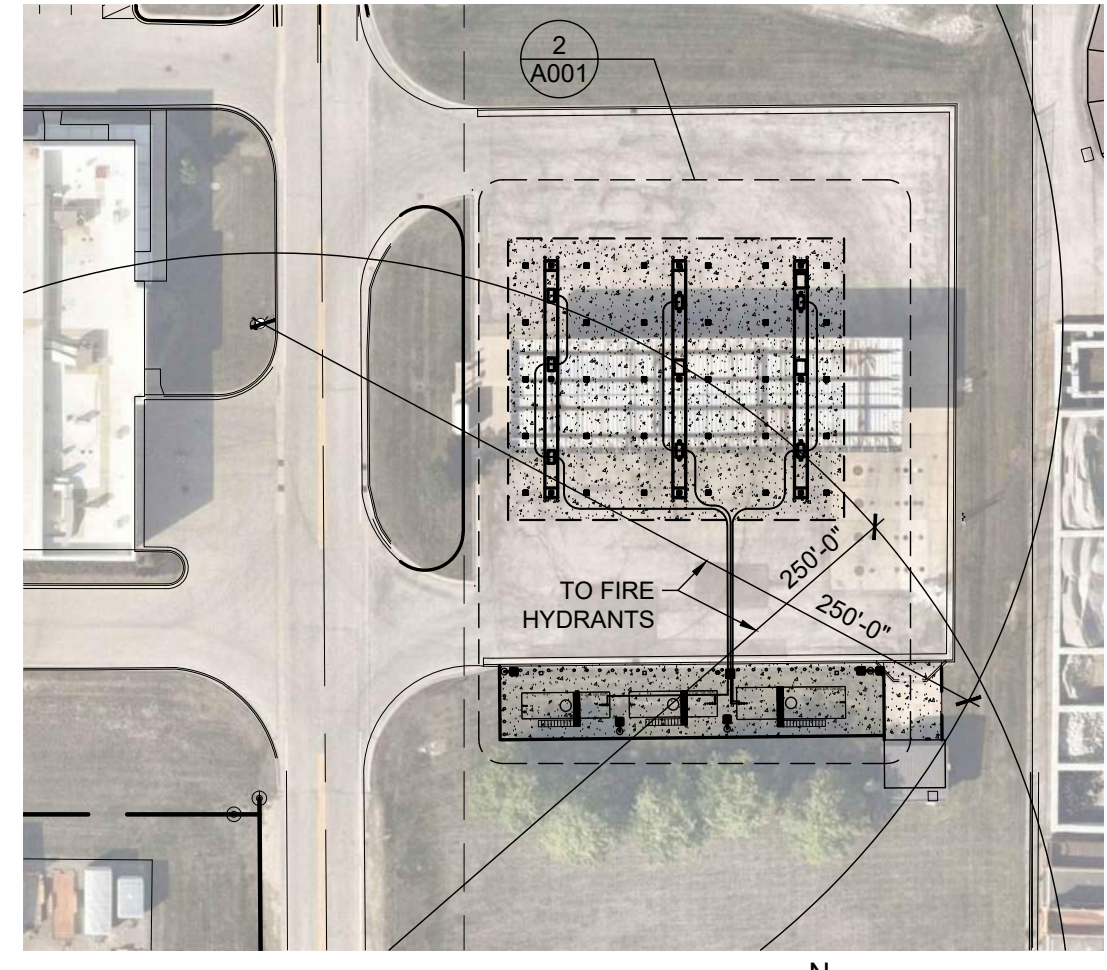
PER NFPA 77 THE TOTAL RESISTANCE OF THE GROUND PATH TO EARTH OF 1 MEGOHM OR LESS SHOULD BE SUFFICIENT TO PREVENT THE ACCUMULATION OF STATIC ELECTRICITY IN CONDUCTIVE EQUIPMENT.

FUEL PIPING PLAN KEY NOTES

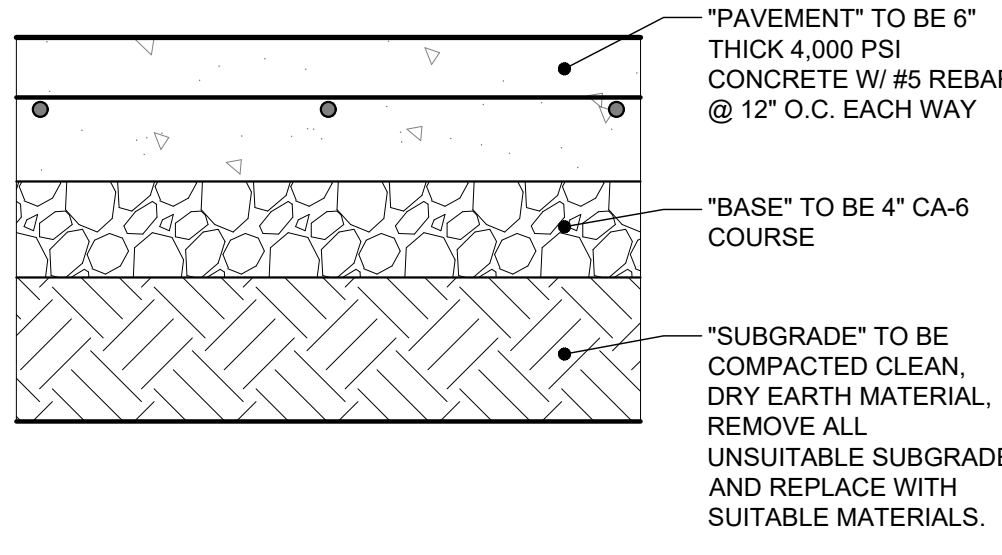
- 1 SEVEN (7) GASBOY ATLAS PRIME ELECTRONIC 1-PRODUCT, 2 HOSE PRODUCT DISPENSERS (FOUR (4) TO BE DIESEL AND THREE (3) TO BE REGULAR UNLEADED), HOSE LENGTH TO BE SIZED TO REACH OPPOSITE SIDE OF EQUIPMENT BEING FUELED. SEE DETAIL 1/A002 AND 1/A003. DISPENSER FINISH TO BE STAINLESS STEEL. SEVEN (7) SINGLE WALL FIBERGLASS BRAVO SUMP, FLUSH-MOUNT ADC EPOXY GALVANNEALED STEEL (A4670-1), ONE (1) DISPENSER SUMP SENSORS, AND CONCRETE ISLAND. SEE SHEET A002 FOR MORE DETAILS. (SEE SITE CIVIL PLANS FOR CONCRETE ISLAND DETAILS).
- 2 ONE (1) 3/4" AND ONE (1) 1" CONDUIT TO EACH DISPENSER. ONE (1) 3/4" FOR SUMP SENSOR FROM INTRINSICALLY SAFE RACEWAY. ONE (1) 3/4" FROM LOW VOLTAGE RACEWAY, AND ONE (1) 1" FOR HIGH VOLTAGE TO EACH DISPENSER.
- 3 2" DOUBLE WALL SECONDARY CONTAINMENT PRODUCT PIPING ABOVE GROUND AND 2" SINGLE WALL SECONDARY CONTAINMENT 2" OMEGAFLEX DOUBLE TRAC PIPING UNDERGROUND. BEFORE INSTALLING, COORDINATE AND VERIFY PRODUCT PIPING LOCATION WITH OWNER OR OWNER'S REP.
- 4 2" SINGLE WALL STORAGE TANK VENT PIPING MOUNTED TO THE TOP OF THE TANKS. RUN VERTICALLY MIN. 12'-0" IN HEIGHT ABOVE GRADE. FASTENED AND SUPPORT AS REQUIRED. SEE DETAIL 1/A003.
- 5 THREE (3) EMERGENCY STOP BUTTON WITH SIGN AND PROTECTIVE COVER, LOCATED AT THE CENTER COLUMN OF THE ISLANDS, MOUNTED 48" HIGH MAX. AT EACH FUELING CENTER COLUMN. ONE PER ROW/ISLAND OF DISPENSERS.
- 6 TWO (2) 8'-0" DIAMETER 10,000 GALLON ABOVE GROUND DOUBLEWALL SINGLE COMPARTMENT UL-142 / UL-2085 LISTED FIREGUARD TANK FOR REGULAR, WITH ONE (1) SINGLE WALL ENTRY COLLAR, ONE (1) SINGLE WALL FIBERGLASS TANK SUMP, ONE (1) INVENTORY ONLY TANK PROBE, ONE (1) TANK SUMP SENSOR, ONE (1) INTERSTITIAL SENSOR, ONE (1) EBW TANK PORT, ONE (1) OVERFILL PREVENTION VALVE, ONE (1) EXTRACTOR, ONE (1) VENT HEAD, ONE (1) REMOTE FILL ADAPTER WITH REMOTE VENT AS REQUIRED, AND ONE (1) FILL PORT. SEE 1/A003 FOR FURTHER TANK DETAILS. LOCATION OF TANK FILL, TANK MONITORING, TANK GAUGE, AND VENT CONNECTION PER MANUFACTURER.
- 7 ONE (1) 10'-0" DIAMETER 20,000 GALLON ABOVE GROUND DOUBLEWALL SINGLE COMPARTMENT UL-142 / UL-2085 LISTED FIREGUARD TANK FOR DIESEL, WITH ONE (1) SINGLE WALL FIBERGLASS ENTRY SUMPS, ONE (1) SINGLE WALL FIBERGLASS TANK SUMP, ONE (1) INVENTORY ONLY TANK PROBE, ONE (1) TANK SUMP SENSOR, ONE (1) INTERSTITIAL SENSOR, ONE (1) EBW TANK PORT, ONE (1) OVERFILL PREVENTION VALVE, ONE (1) EXTRACTOR, ONE (1) VENT HEAD, ONE (1) REMOTE FILL ADAPTER WITH REMOTE VENT AS REQUIRED, AND ONE (1) FILL PORT. SEE 1/A003 FOR FURTHER TANK DETAILS. LOCATION OF TANK FILL, TANK MONITORING, TANK GAUGE, AND VENT CONNECTION PER MANUFACTURER.
- 8 TWO (1) 2 HP TURBINE SUBMERSIBLE PUMPS, ONE (1) INSTALLED IN EACH OF THE 10,000 GALLON REGULAR TANKS.
- 9 ONE (1) 2 HP TURBINE VARIABLE SPEED SUBMERSIBLE PUMP IN 20,000 GALLON DIESEL TANK.
- 10 INSTALL ONE (1) BRAVO SINGLE WALL B900 COMMERCIAL SERIES TRANSITION SUMP AT ABOVE-GROUND FUEL TANKS AS SHOWN ON SITE PLAN. VERIFY LOCATION WITH CIVIL DRAWINGS. **ALTERNATE BID** - DO NOT INSTALL TRANSITION SUMP. OMEGAFLEX DOUBLE TRAC PIPING UNDERGROUND PIPING DOES NOT REQUIRE TRANSITION SUMP. CONTRACTOR SHALL CONFIRM WARRANTIES AND INSTALLATION REQUIREMENTS WITH MANUFACTURER FOR COMPLETE INSTALLATION TO PRESENT WITH BID ALTERNATE TO OWNER.
- 11 INSTALL TL54I, INSTALL NECESSARY MODULES AND APPURTENANCES FOR COMPLETE OPERATING SYSTEM. INSTALL INSIDE A NEW 4' ENCLOSURE FOR ANY OUTDOOR, UNPROTECTED LOCATION. CONFIRM WITH OWNER FINAL LOCATION OF EQUIPMENT.
- 12 LOW VOLTAGE DISCONNECT EQUIPMENT AND APPURTENANCES FOR DISPENSER CONTROLS AND EQUIPMENT PER MANUFACTURER'S SPECIFICATIONS. CONFIRM WITH OWNER FINAL LOCATION OF EQUIPMENT.
- 13 REFER TO ELECTRICAL DRAWINGS FOR FURTHER DETAIL.
- 14 OVERFILL ALARM. OVERFILL ALARM ACKNOWLEDGEMENT SWITCH AND APPURTENANCES.
- 15 FUELMASTER SITE CONTROLLER (OR EQUIVALENT AND COMPATIBLE SYSTEM), CONFIRM WITH OWNER FINAL LOCATION OF EQUIPMENT. INCLUDE NECESSARY COORDINATION FOR MAINTAINING INTEROPERABILITY WITH OWNER'S EXISTING FLEET MANAGEMENT SOFTWARE.
- 16 FUELING CANOPY. SEE ARCHITECTURAL DRAWINGS.
- 17 SEVEN (7) SELF SERVE ISLAND INSTRUCTION/WARNING SIGNS
- 18 SEVEN (7) WINDSHIELD SERVICE CABINETS.
- 19 4" BOLLARDS BY OTHERS, TYP. OF 44, SEE DETAIL 1/A001 THIS SHEET.
- 20 PRODUCT TANK PAD. SEE DETAIL 4/A001 THIS SHEET.
- 21 TWO (2) REMOTE FILL BOXES, STAINLESS STEEL, 15 GALLON, 2" BOOTED ENTRY FITTING, ADJUSTABLE LEGS AND DRAIN VALVE. SEE DETAIL 1/A003. REMOTE FILL BOXES ARE REQUIRED TO BE LABELED PER THE PRODUCT THEY ARE USED FOR.
- 22 NEW CANOPY SLAB. SEE CIVIL DRAWINGS FOR MORE INFORMATION.
- 23 NEW DISPENSER ISLANDS. SEE CIVIL DRAWINGS FOR MORE INFORMATION.
- 24 TWO (2) NEW 250 GALLON STANDALONE DEF TOTES. PROVIDE DIRECT ELECTRIC WARM CLIMATE OPTION.
- 25 ACCESS STAIR AND CATWALKS FABRICATED AND INSTALLED PER OSHA SPECIFICATIONS.
- 26 NEW POLE LIGHTS WITH 5000K LIGHTS, TYPICAL OF THREE (3) SINGLE HEAD AND ONE (1) DOUBLE HEAD AS SHOWN. SEE PHOTOMETRIC AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- 27 NEW CANOPY 5000K LIGHTS, TYPICAL OF THIRTY (30). SEE PHOTOMETRIC AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- 28 NEW WALL PACK 5000K LIGHT, TYPICAL OF ONE (1). SEE PHOTOMETRIC AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- 29 WHEELED 80BC, HALOTRON OR SODIUM BICARBONATE, FIRE EXTINGUISHER WITH MINIMUM OF 125LBS. OF AGENT, STORED WITHIN 75' OF ABOVE GROUND STORAGE TANKS. PROTECT WITH FITTED COVER WITH READILY IDENTIFIABLE MARKINGS OR SIMILAR FOR OUTDOOR STORAGE.



2 BOLLARD DETAIL
SCALE: N.T.S.



3 KEY PLAN
SCALE: 1" = 60'-0"



4 TANK PAD CONCRETE PAVEMENT
SCALE: 1-1/2" = 1'-0"

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| - | 02.02.2024 | OWNER'S REVIEW SET |
| - | 03.06.2024 | OWNER'S REVIEW SET |
| - | 03.18.2024 | BID SET |
| - | 04.01.2024 | VARIANCE REQUEST |
| - | 04.12.2024 | ADDENDUM #1 |

LAKE COUNTY FUEL ISLAND REPLACEMENT
 LAKE COUNTY DIVISION OF TRANSPORTATION
 600 WEST WINCHESTER ROAD
 LIBERTYVILLE, ILLINOIS 60048

Project Status

TANK AND PIPING PLAN

SHEET NO.
A001

JOB NO. 23-3764.02
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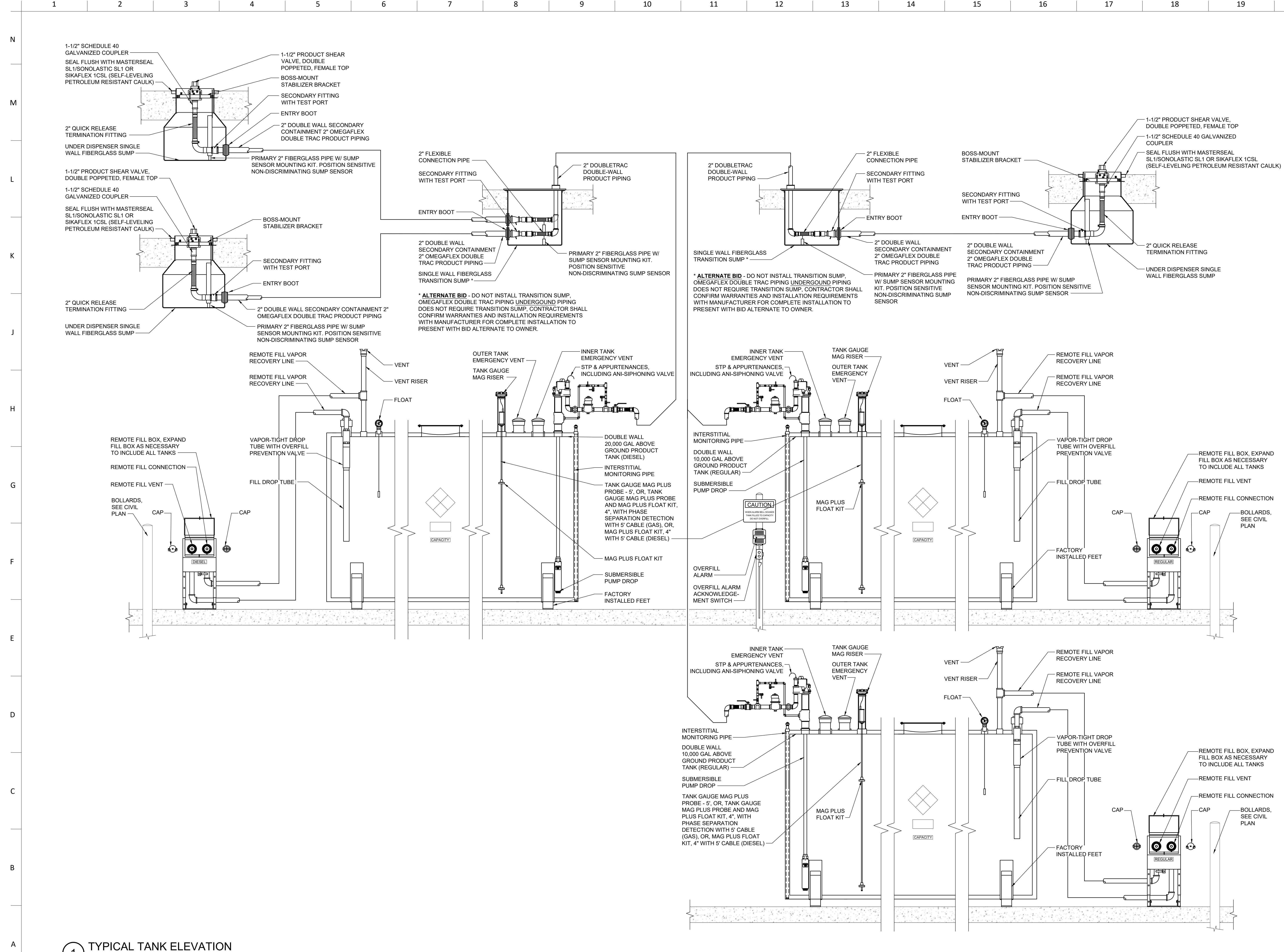
LAKE COUNTY FUEL ISLAND REPLACEMENT
LAKE COUNTY DIVISION OF TRANSPORTATION
600 WEST WINCHESTER ROAD
LIBERTYVILLE, ILLINOIS 60048

Project Status

TANK ELEVATION AND DETAILS

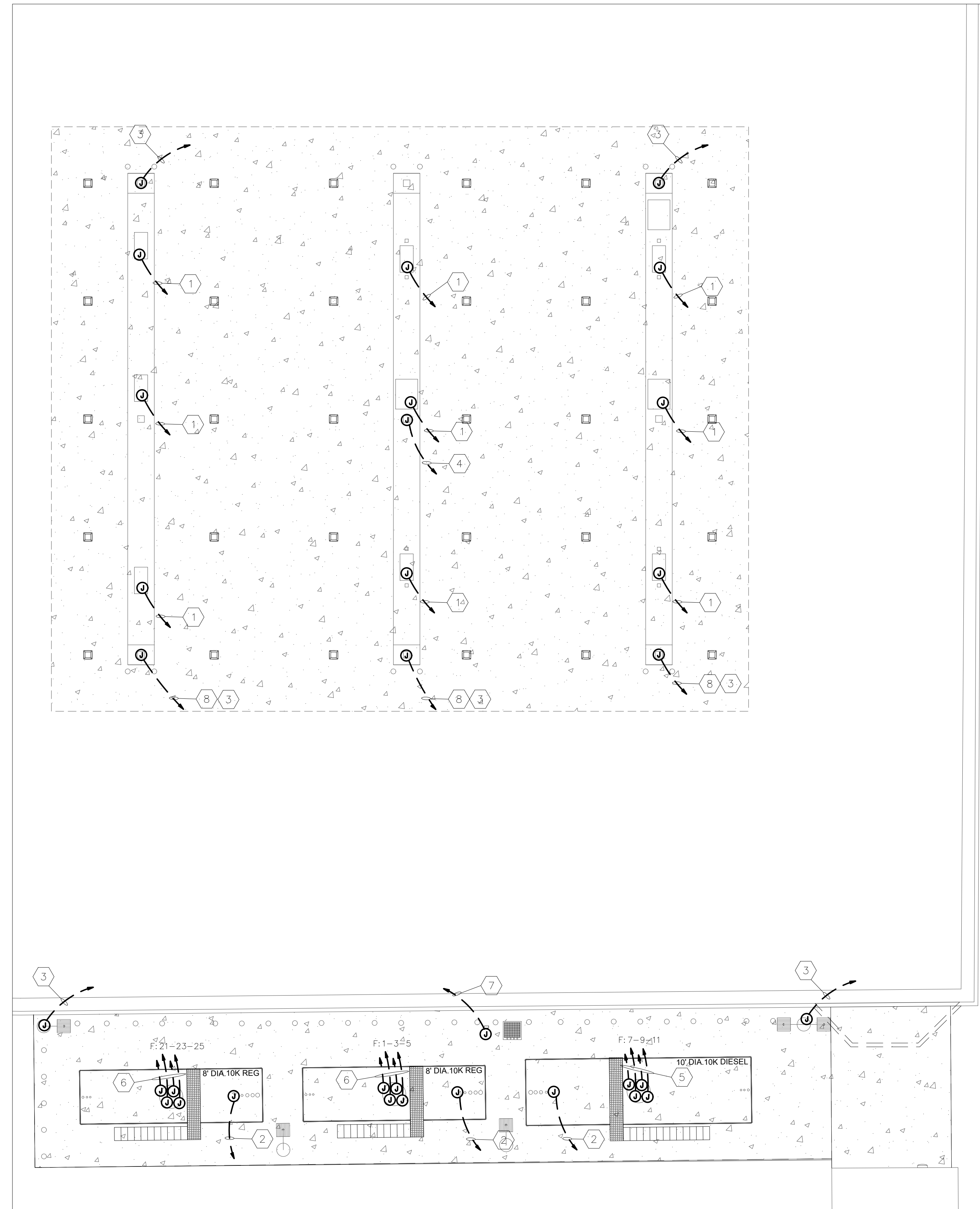
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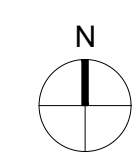


1 TYPICAL TANK ELEVATION
SCALE: N.T.S.

File: \\s01\proj\2023\0300047 - FGM Atom-Lake County 18 P - Libertyville, IL\10 - 030824\0300047 - A003.rvt - 03/08/2024 10:00 AM
Plotted: 03/08/2024 10:00 AM
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1 TANK AND PIPING PLAN
SCALE: 1" = 10'-0"



GENERAL NOTES

- SERVICE ENTRANCE CABLING SHALL BE PROTECTED WITH BEPVC COATED GALVANIZED RIGID METAL CONDUIT WHERE ABOVE GRADE
- ELECTRICAL CONDUITS AND ENCLOSURES AT FUELING PUMPS SHALL HAVE EXPLOSION PROOF BOXES AND FITTINGS CONFORMING WITH ARTICLE 514 OF THE NEC
- LAST 10' AND UP TURNS OF UNDERGROUND CONDUIT SERVING THE FUEL SYSTEM SHALL BE BEPVC COATED, GALVANIZED RIGID CONDUIT.

KEYED NOTES

- ONE (1) 1" CONDUIT FOR DISPENSER POWER TO FUEL POWER PANEL & ONE (1) 3/4" CONDUIT FOR DISPENSER DATA TO INTRINSICALLY SAFE WIREWAY ONE (1) 3/4" CONDUIT FOR SUMP SENSOR TO INTRINSICALLY SAFE WIREWAY
- ONE (1) 3/4" CONDUIT FOR TANK LEAK DETECTION WIRING CONDUIT/ WIRING TO CONNECT BACK TO LEAK DETECTION SYSTEM LOCATED IN C-STORE (WIRING TO BE INTRINSICALLY SAFE WIREWAY)
- ONE (1) 1" CONDUIT FOR CAMERAS RUN UP THE INSIDE OF CANOPY COLUMN AND LIGHT POLES.
- ONE (1) 1" CONDUIT WITH PULL STRINGS IN EACH COLUMN, RUN UP THE INSIDE OF THE CANOPY COLUMN, TERMINATE INSIDE OF CANOPY FOR FUTURE.
- ONE (1) 1" CONDUIT FOR DIESEL SUBMERSIBLE PUMP POWER ONE (1) 3/4" CONDUIT FOR SUMP LEAK DETECTION LOW VOLTAGE WIRING CONNECT TO LEAK DETECTION SYSTEMS IN UTILITY SHED ONE (1) 3/4" CONDUIT FOR LINE LEAK DETECTION (PDL) LOW VOLTAGE WIRING CONNECT TO LEAK DETECTION SYSTEMS IN UTILITY SHED ONE (1) 3/4" CONDUIT FOR ATG
- ONE (1) 1" CONDUIT FOR REGULAR SUBMERSIBLE PUMP POWER ONE (1) 3/4" CONDUIT FOR SUMP LEAK DETECTION LOW VOLTAGE WIRING CONNECT TO LEAK DETECTION SYSTEMS IN UTILITY SHED ONE (1) 3/4" CONDUIT FOR LINE LEAK DETECTION (PDL) LOW VOLTAGE WIRING CONNECT TO LEAK DETECTION SYSTEMS IN UTILITY SHED ONE (1) 3/4" CONDUIT FOR ATG
- ONE (1) 3/4" CONDUIT FOR TANK OVERFLOW ALARM POWER
- TWO (2) 1" CONDUITS FOR CANOPY LIGHTING. RUN UP THE INSIDE OF CANOPY COLUMN TO CANOPY COLUMN

| PANEL | | VOLTS | | PHASE | | | | | |
|----------------|------|----------|------------------------|--------------------|-------|-------------------|---------------------|------|--------|
| A | | 208/120V | | 3PH, 4W | | | | | |
| AMPS | | MAIN | | A.I.C. | | | | | |
| 225A AT FRAME | | 225A MLO | | 10,000 | | | | | |
| LOCATION | | | MOUNTING | | | | | | |
| UTILITY SHED | | | SURFACE | | | | | | |
| CKT. # | POLE | TRIP | LOCATION | KVA | KVA | LOCATION | TRIP | POLE | CKT. # |
| 1 | | 30 | SUBMERSIBLE - GASOLINE | 1.71 | 21.56 | PANEL A1 | 40 | 1 | 2 |
| 3 | | | | 1.71 | - | SPACE | 20 | 1 | 4 |
| 5 | 3 | | | 1.71 | - | SPACE | - | - | 6 |
| 7 | | 30 | SUBMERSIBLE - DIESEL | 1.71 | 0.72 | E-STOP | 15 | 1 | 8 |
| 9 | | | | 1.71 | - | SPACE | - | - | 10 |
| 11 | 3 | | | 1.71 | - | SPACE | - | - | 12 |
| 13 | | 30 | SPACE | - | - | SPACE | - | - | 14 |
| 15 | 1 | | | - | 0.90 | VEDEER ROOT | 20 | 1 | 16 |
| 17 | 1 | 20 | BUILDING LIGHTS | 1.00 | 0.72 | O-C MONITOR | 15 | 1 | 18 |
| 19 | 1 | 20 | RECEPTACLES | 1.00 | - | SPACE | 20 | 1 | 20 |
| 21 | | 30 | SUBMERSIBLE - GASOLINE | 1.71 | - | SPACE | - | - | 22 |
| 23 | | | | 1.71 | - | SPACE | 20 | 1 | 24 |
| 25 | 3 | | | 1.71 | 0.90 | CANOPY LIGHTS | 20 | 1 | 26 |
| 27 | - | - | SPACE | - | 0.90 | CANOPY LIGHTS | 20 | 1 | 28 |
| 29 | - | - | SPACE | - | 0.90 | CANOPY LIGHTS | 20 | 1 | 30 |
| 31 | - | - | SPACE | - | 0.90 | CANOPY LIGHTS | 20 | 1 | 32 |
| 33 | - | - | SPACE | - | 0.90 | CANOPY LIGHTS | 20 | 1 | 34 |
| 35 | - | - | SPACE | - | 0.38 | SITE LIGHTS | 20 | | 36 |
| 37 | - | - | SPACE | - | 0.38 | | | 2 | 38 |
| 39 | - | - | SPACE | - | 4.00 | WALL A/C & HEATER | 30 | | 40 |
| 41 | - | - | SPACE | - | 4.00 | | | 2 | 42 |
| TOTAL = | | | | 17.39 | 37.16 | = TOTAL | | | |
| | | | | TOTAL KVA = | | 54.55 | TOTAL AMPS = | | 151.53 |

- NOTES:
 1. ALL C/B'S SERVING HVAC EQUIPMENT SHALL BE HACR RATED.
 2. ALL C/B'S SERVING EM/NL LIGHTING SHALL HAVE LOCK-ON DEVICE.
 3. ALL C/B'S USED FOR SWITCHING OF LIGHTS SHALL BE SWITCH DUTY RATED.

| PANEL | | VOLTS | | PHASE | | | | | |
|----------------|------|------------------------------|-----------------------|--------------------|------|----------------------|---------------------|------|--------|
| A1 | | 208/120V | | 1PH, 3W | | | | | |
| AMPS | | MAIN | | A.I.C. | | | | | |
| 40A AT FRAME | | 40A MLO (FED FROM PANEL 'A') | | 10,000 | | | | | |
| LOCATION | | | MOUNTING | | | | | | |
| UTILITY SHED | | | SURFACE | | | | | | |
| CKT. # | POLE | TRIP | LOCATION | KVA | KVA | LOCATION | TRIP | POLE | CKT. # |
| 1 | 1 | 15 | REGULAR - DISPENSER 1 | 0.72 | - | SPACE | 20 | 1 | 2 |
| 3 | 1 | 15 | REGULAR - DISPENSER 2 | 0.72 | 2.00 | AIR COMPRESSOR | 20 | 1 | 4 |
| 5 | 1 | 15 | REGULAR - DISPENSER 3 | 0.72 | - | SPACE | 30 | 1 | 6 |
| 7 | 1 | 15 | DIESEL - DISPENSER 4 | 0.72 | 0.72 | TLS-PLLD RELAY POWER | 20 | 1 | 8 |
| 9 | 1 | 15 | DIESEL - DISPENSER 5 | 0.72 | - | SPACE | - | - | 10 |
| 11 | 1 | 15 | DIESEL - DISPENSER 6 | 0.72 | - | SPACE | - | - | 12 |
| 13 | 1 | 15 | DIESEL - DISPENSER 7 | 0.72 | - | SPACE | - | - | 14 |
| 15 | 1 | 15 | SPACE | - | - | SPACE | - | - | 16 |
| 17 | 1 | 15 | SPACE | - | - | SPACE | - | - | 18 |
| 19 | 1 | 15 | SPACE | - | - | SPACE | - | - | 20 |
| TOTAL = | | | | 5.04 | 2.72 | = TOTAL | | | |
| | | | | TOTAL KVA = | | 7.76 | TOTAL AMPS = | | 21.56 |

- NOTES:
 1. ALL C/B'S SERVING HVAC EQUIPMENT SHALL BE HACR RATED.
 2. ALL C/B'S SERVING EM/NL LIGHTING SHALL HAVE LOCK-ON DEVICE.
 3. ALL C/B'S USED FOR SWITCHING OF LIGHTS SHALL BE SWITCH DUTY RATED.

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 IL NO. 184.007570-0015 EXPIRES: 04.30.2025 WTG JOB: 02300047

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| ISSUANCE | | |
|----------|------------|--------------------|
| NO | DATE | DESCRIPTION |
| - | 02.02.2024 | OWNER'S REVIEW SET |
| - | 03.06.2024 | OWNER'S REVIEW SET |
| - | 03.18.2024 | BID SET |
| - | 04.01.2024 | VARIANCE REQUEST |
| - | 04.12.2024 | ADDENDUM #1 |

LAKE COUNTY FUEL ISLAND REPLACEMENT
 LAKE COUNTY DIVISION OF TRANSPORTATION
 600 WEST WINCHESTER ROAD
 LIBERTYVILLE, ILLINOIS 60048
 Project Status

TANK AND PIPING ELECTRICAL PLAN AND SCHEDULES

SHEET NO. **E001**

JOB NO. 23-3764.02
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| MECH / ELEC / PLUMB W-T GROUP 2675 Pratum Avenue Hoffman Estates, IL 60192 314.259.6333 (O) 314.259.6444 (F) XXX STATE CERTIFICATE OF AUTHORITY IL NO. 184.007570-0015 EXPIRES: 04.30.2025 WTG JOB: 02300047 |

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| - | 04.12.2024 ADDENDUM #1 |

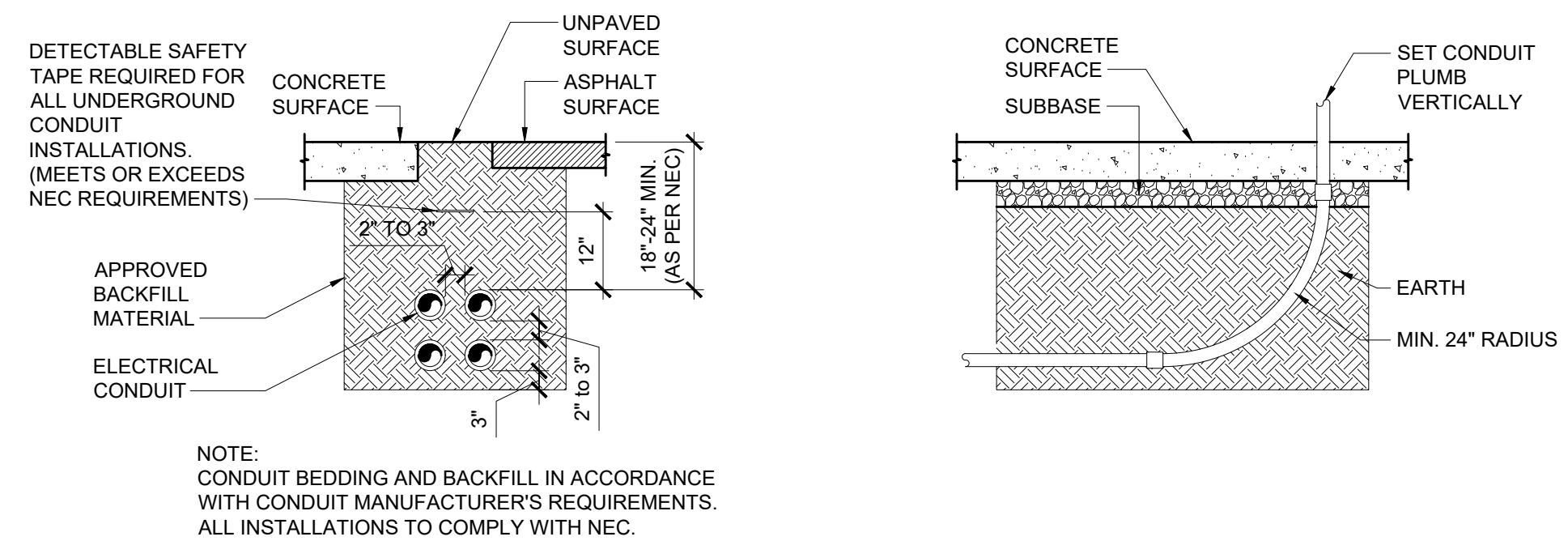
LAKE COUNTY FUEL ISLAND REPLACEMENT
LAKE COUNTY DIVISION OF TRANSPORTATION
600 WEST WINCHESTER ROAD
LIBERTYVILLE, ILLINOIS 60048

Project Status

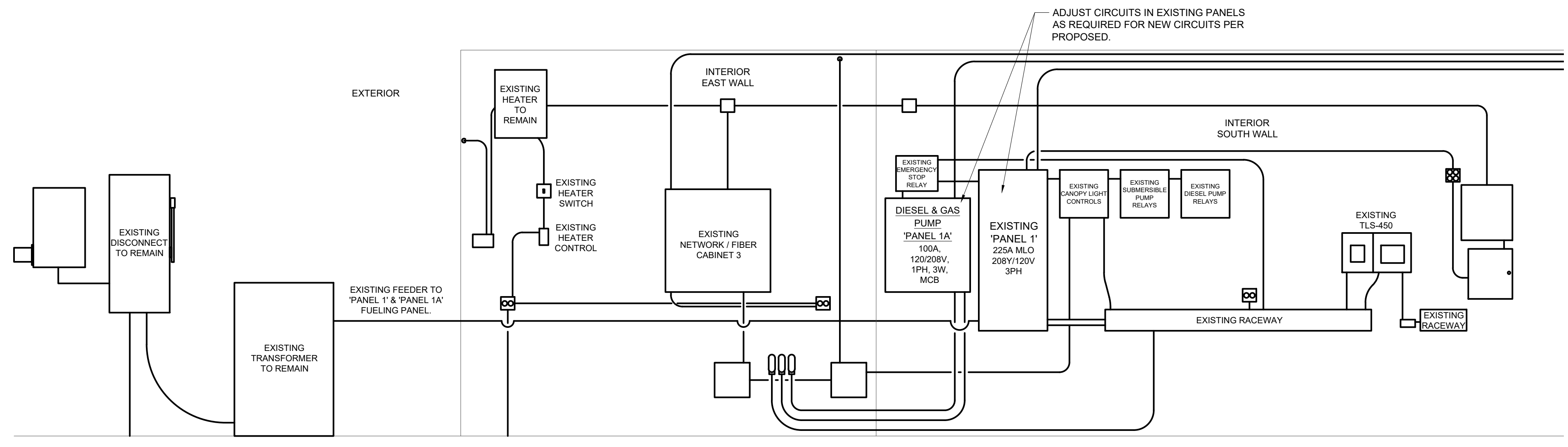
ELECTRICAL DETAILS AND DIAGRAMS

SHEET NO. **E101**

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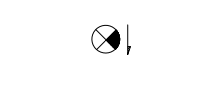
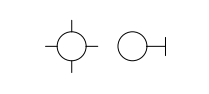
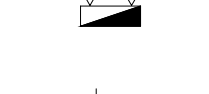
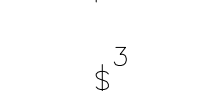







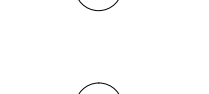
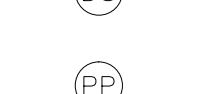
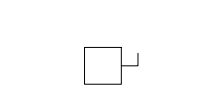
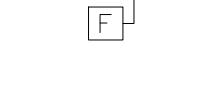
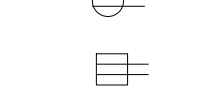
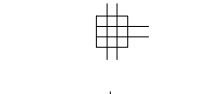
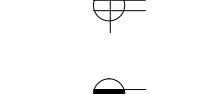
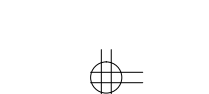
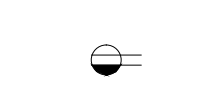
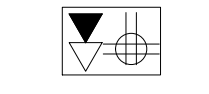

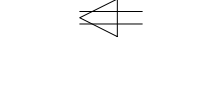
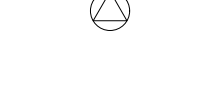

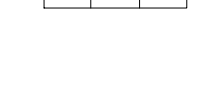


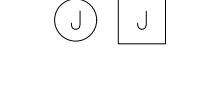








1 TYPICAL ELECTRICAL TRENCH DETAIL
SCALE: 1/2" = 1'-0"



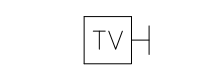



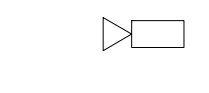
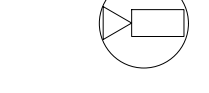
2 ELECTRICAL RISER DIAGRAM
SCALE: N.T.S.

File: \\s01\projects\184007570\184007570-001\184007570-001-001 - Tank & Piping Detail Plan & Sizing.dwg
 PLOTED: 1/24/2024 9:12:53 AM
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ELECTRICAL SYMBOLS

| | |
|--|---|
|  | FLUORESCENT LIGHT FIXTURE. CAPITAL LETTER DENOTES FIXTURE TYPE, NUMERAL INDICATES CIRCUIT ASSIGNMENT, SUBSCRIPT LETTER DENOTES SWITCH LEG. SHADING OF ANY FIXTURE INDICATES CIRCUITED TO UNSWITCHED EMERGENCY CIRCUIT. SEE "LIGHTING FIXTURE SCHEDULE." |
|  | EXIT SIGN UNIVERSAL MOUNT SHADED AREA INDICATES FACE, ARROWS AS REQUIRED. SEE "LIGHTING FIXTURE SCHEDULE." |
|  | LIGHTING FIXTURE OUTLET – SEE "LIGHTING FIXTURE SCHEDULE" |
|  | SELF CONTAINED EMERGENCY LIGHTING FIXTURE, WITH BATTERY BACK-UP AND SOLID STATE CHARGER |
|  | SINGLE POLE TOGGLE SWITCH, 48" AFF. SUBSCRIPT LETTER DENOTES SWITCH LEG, 20 AMP, 120 VOLT |
|  | THREE WAY TOGGLE SWITCH, 48" AFF, 20AMP, 120VOLT. |
|  | MANUAL SINGLE PHASE MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION. "P" DENOTES DEVICE FURNISHED WITH PILOT LIGHT., 48" AFF UNLESS INDICATED OTHERWISE |
|  | DIMMER SWITCH; 48"A.F.F. LEVITON #P710LFZ |
|  | FAN SPEED SWITCH, 48"A.F.F. |
|  | WALL MOUNTED VACANCY SENSOR "AUTO ON / AUTO OFF" 48"A.F.F. LEVITON #0SSMT-GD |
|  | WALL MOUNTED VACANCY SENSOR "MANUAL ON / AUTO OFF" 48"A.F.F. LEVITON #0SSMT-GT |
|  | LOW VOLTAGE LIGHTING MOMENTARY CONTACT SWITCH; 48"A.F.F. LEVITON #56081-2W |
|  | 4 BUTTON 0-10V LOW VOLTAGE DIMMER SWITCH; 48"A.F.F. LEVITON #RLVSW-4LW |
|  | LOW VOLTAGE CEILING MOUNTED ULTRASONIC/ PASSIVE INFRARED OCCUPANCY SENSOR "AUTO ON/ AUTO OFF OPERATION" LEVITON #OSC20-MOW |
|  | LOW VOLTAGE CEILING MOUNTED ULTRASONIC/ PASSIVE INFRARED OCCUPANCY SENSOR "MANUAL ON/ AUTO OFF OPERATION" LEVITON #OSC20-MOW |
|  | LOW VOLTAGE CEILING MOUNTED DAYLIGHT PHOTOCCELL LEVITON #ODCOP |
|  | LIGHTING POWER PACK; LEVITON #OSP20-0D2 |
|  | NON FUSED SAFETY SWITCH, RATING AS INDICATED |
|  | FUSED DISCONNECT SWITCH, SWITCH AND FUSE RATING AS INDICATED. |
|  | DUPLEX RECEPTACLE, NEMA 5-20R, 15"A.F.F. |
|  | ISOLATED GROUND DUPLEX RECEPTACLE, NEMA 5-20R, 15" AFF |
|  | ISOLATED GROUND QUAD RECEPTACLE, NEMA 5-20R, 15" AFF |
|  | DUPLEX RECEPTACLE CROSS LINE DENOTES 6" ABOVE COUNTER OR BACKSPLASH. |
|  | DUPLEX RECEPTACLE SHADING DENOTES GROUND FAULT CIRCUIT INTERRUPTER "GFCI". NEMA 5-20R |
|  | QUAD RECEPTACLE |
|  | SWITCHED RECEPTACLE HALF THE RECEPTACLE CONTROLLED BY SWITCH |
|  | QUAD FLOOR RECEPTACLE |
|  | CEILING MOUNT RECEPTACLE |
|  | COMBINATION DUPLEX RECEPTACLE AND USB PORT |
|  | SPECIAL PURPOSE OUTLET, COORDINATE REQUIREMENTS WITH SPECIAL OUTLET SCHEDULE |
|  | LIGHTING AND/OR POWER PANEL. REFER TO RISER DIAGRAM |
|  | SWITCHGEAR, REFER TO RISER DIAGRAM FOR REQUIREMENTS |
|  | MOTOR |
|  | PHOTO ELECTRIC CONTROL, ROOF MOUNTED, 120V OPERATION, 20A RATED |
|  | AUXILLARY JUNCTION BOX |
|  | FLEXIBLE CONDUIT CONNECTION |
|  | TELEPHONE OUTLET, WITH 3/4" CONDUIT STUB ABOVE ACCESSIBLE CEILING. ROUGH-IN ONLY NO CABLING |
|  | DATA SYSTEM OUTLET WITH 3/4" CONDUIT STUB ABOVE ACCESSIBLE CEILING. ROUGH-IN ONLY NO CABLING |

ELECTRICAL SPECIFICATIONS

| | |
|---|--|
|  | TV OUTLET, WITH 3/4" CONDUIT STUB ABOVE ACCESSIBLE CEILING. ROUGH-IN ONLY NO CABLING |
|  | INTERCOM SPEAKER, ROUGH-IN ONLY NO CABLING |
|  | STEEL RACEWAY LEGRAND OR APPROVED EQUAL |
|  | POWER POLE WITH DIVIDED RACEWAY LEGRAND OR APPROVED EQUAL |
|  | STATIONARY CAMERA. ROUGH-IN ONLY NO CABLING |
|  | PAN, TILT, ZOOM. ROUGH-IN ONLY NO CABLING |

THE GENERAL CONDITIONS AND SUPPLEMENTAL GENERAL CONDITIONS BY THE FUEL DESIGNER SHALL GOVERN WHERE APPLICABLE.

THIS CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE PLANS AND SHALL VERIFY EXISTING SITE CONDITIONS AT THE JOB SITE BEFORE SUBMITTING BID. FAILURE TO RECOGNIZE WORK REQUIRED SHALL BE AT THE EXPENSE OF THIS CONTRACTOR. NO CONSIDERATION SHALL BE GIVEN FOR ADDITIONAL COMPENSATION AFTER THE LETTING OF BIDS.

ENTIRE INSTALLATION SHALL BE PERFORMED IN A FIRST-CLASS WORKMANLIKE MANNER AND SHALL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES. THE COMPLETED SYSTEMS SHALL BE FULLY OPERATIONAL; ACCEPTANCE BY THE OWNER SHALL BE A CONDITION OF THE CONTRACT. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES IN ORDER TO AVOID INTERFERENCE'S, PRESERVE MAXIMUM HEADROOM, AND AVOID OMISSIONS. ALL MATERIALS, WORKMANSHIP AND EQUIPMENT SHALL BE GUARANTEED FOR ONE (1) YEAR AFTER SYSTEM ACCEPTANCE.

RECEPTACLES AND SWITCHES SHALL BE THE TYPE AS SHOWN ON THE DRAWINGS AND SHALL BE SPECIFICATION GRADE.

MINIMUM BRANCH WIRE SIZE SHALL BE #12 AWG COPPER EXCEPT FOR FUEL SYSTEM CONDUCTORS, WHICH SHALL BE TYPE THWN2, AND EXCEPT FOR CONTROL AND SIGNAL CIRCUITS. INSULATION (INTERIOR) SHALL BE SOLID TYPE THHN OR THWN SIZES #12 THROUGH #10. SIZES #8 THROUGH 750 MCM SHALL BE STRANDED TYPE THHN OR THWN AT THE CONTRACTOR'S OPTION.

MINIMUM OUTLET BOXES SHALL BE 4" SQUARE, UNLESS OTHERWISE SPECIFIED.

CONTRACTOR SHALL NOT SCALE DRAWINGS FOR DIMENSIONS BUT SHALL CONTACT THE PROJECT ARCHITECT FOR ALL DIMENSIONAL DATA AND SHALL VERIFY EXACT LOCATION AND MOUNTING HEIGHTS OF ALL OUTLETS WITH ARCHITECT AND/OR OWNER PRIOR TO INSTALLATION.

GROUNDING SHALL COMPLY WITH REQUIREMENTS OF ALL APPLICABLE CODES. ALL MATERIALS USED SHALL BE NEW AND BEAR THE U/L LABEL AND BE OF THE APPROPRIATE NEMA STANDARD.

THIS CONTRACTOR SHALL ALLOW IN HIS INITIAL BID THE COST OF SERVICES ON ALL EQUIPMENT INSTALLED UNDER HIS CONTRACT FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE OF THE WORK.

LAYOUT IS DIAGRAMMATIC AND WORK SHALL BE INSTALLED TO MEET FIELD CONDITIONS AND EQUIPMENT SELECTED. PROVIDE SHOP DRAWINGS AS REQUIRED AND VERIFY ALL EQUIPMENT.

PANELBOARDS SHALL BE DEAD FRONT WITH BOLT-ON TYPE CIRCUIT BREAKERS W/CU BUS. A TYPED LEGEND, UNDER A CLEAR PLEXAN-GLASS SHALL BE PROVIDED FOR CIRCUIT IDENTIFICATION.

CONTRACTOR SHALL INCLUDE ALL MISCELLANEOUS ITEMS REQUIRED TO COMPLETE THE WORK.

CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND REQUIRED INSPECTION FEES.

IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE AND REVIEW THE ELECTRICAL CHARACTERISTICS, AMPACITY AND OTHER REQUIREMENTS OF ALL EQUIPMENT PRIOR TO INSTALLATION.

IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE THE LOCATIONS OF CONDUIT ROUTING, EQUIPMENT, LIGHTING, ETC. WITH ALL OTHER TRADES IN THE FIELD PRIOR TO INSTALLATION.

THE ENTIRE INSTALLATION OF ALL COMPONENTS OF THIS PROJECT SHALL COMPLY WITH ALL FEDERAL ADA REQUIREMENTS. VERIFY EXACT LOCATIONS AND HEIGHTS OF ALL FIXTURES AND OUTLETS BEFORE INSTALLATION TO INSURE COMPLIANCE WITH FEDERAL REGULATIONS.

FOR CLARITY OF ALL PLANS, SOME CONDUIT AND WIRE HAS NOT BEEN SHOWN. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO FURNISH AND INSTALL COMPLETE AND OPERATING SYSTEMS INCLUDING ALL CONDUIT AND WIRING.

FOR ALL NIGHT LIGHTING, EXIT SIGNS AND BATTERY POWERED EMERGENCY LIGHTING CIRCUITS, THIS CONTRACTOR SHALL USE #10 AWG FOR THE ENTIRE CIRCUIT LENGTH UNLESS INDICATED OTHERWISE.

THIS CONTRACTOR SHALL MAINTAIN THE FIRE RATED INTEGRITY OF ALL FLOORS, CEILINGS AND WALLS. ALL PENETRATIONS THROUGH FIRE RATED BUILDING ELEMENTS SHALL BE EFFECTIVELY SEALED USING APPROVED MATERIALS AND METHODS. ALL LIGHTING FIXTURES MOUNTED IN FIRE RATED CEILINGS SHALL MAINTAIN THE INTEGRITY OF THE FIRE RATED CEILINGS USING APPROVED MATERIALS AND METHODS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATINGS.

THIS CONTRACTOR SHALL INSPECT THE COMPLETE SET OF DRAWINGS AND SPECIFICATIONS TO DETERMINE HIS ENTIRE SCOPE OF WORK. THIS CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND EXTENT OF DEMOLITION AND NEW WORK FOR THIS PROJECT PRIOR TO SUBMITTING HIS BID.

THE ELECTRICAL INSTALLATION IS TO BE IN STRICT ACCORDANCE WITH THE APPLICABLE RULES AND REGULATIONS OF ALL LOCAL, STATE AND FEDERAL ELECTRICAL CODES AND THE LOCAL UTILITY COMPANY REQUIREMENTS OR ANY OTHER AUTHORITIES HAVING LAWFUL JURISDICTION.

ALL SITE UNDERGROUND BRANCH CIRCUIT WIRING IN CONDUIT SHALL BE TYPE THWN OR XHHW.

ALL UNDERGROUND CONDUIT SERVING THE FUEL SYSTEM WHERE REQUIRED CLOSE TO THE PUMPS AND AT THE END COMING UP FROM THE GROUND SHALL BE BEPVC COATED, GALVANIZED RIGID CONDUIT.

ALL UNDERFLOOR OR EXPOSED TO THE WEATHER CONDUIT SHALL BE HEAVYWALL, GALVANIZED RIGID STEEL, MINIMUM SIZE 3/4".

PROVIDE BARRIERS TO SEPARATE DIFFERENT PHASES IN 277 VOLT GANGED SWITCH BOXES.

ALL WIRE SHALL BE INSTALLED IN THINWALL, ELECTRICAL METALLIC TUBING (EMT) CONDUIT UNLESS OTHERWISE NOTED. MINIMUM SIZE SHALL BE 3/4" FOR BRANCH CIRCUIT WIRING, DROPS TO SWITCHES AND BRANCH DEVICES MAY BE 1/2" UNLESS OTHERWISE NOTED ON DRAWINGS. ALL THINWALL FITTINGS SHALL BE OF THE STEEL COMPRESSION GLAND TYPE PER ALL APPLICABLE CODE REQUIREMENTS. ALL CONDUITS SHALL BE CONCEALED WHERE POSSIBLE, WHERE EXPOSED, THIS CONTRACTOR SHALL RUN CONDUITS IN STRAIGHT LINES PARALLEL AND/OR PERPENDICULAR TO THE BUILDING CONSTRUCTION. CONDUITS INSTALLED IN AREAS SUBJECT TO MECHANICAL DAMAGE SHALL BE RIGID GALVANIZED, OR INTERMEDIATE METAL TYPE.

THIS CONTRACTOR SHALL PROVIDE ALL TEMPORARY WIRING FOR ALL TRADES FOR CONSTRUCTION EQUIPMENT (ie: HANDTOOLS, WELDERS, PIPE BENDERS, ETC.) AND CONSTRUCTION LIGHTING PER THE LATEST OSHA STANDARDS. INCLUDE ALL COSTS IN THE BASE BID. THIS CONTRACTOR SHALL ESTABLISH SAFE WORKING PROCEDURES FOR THE PROTECTION OF THE WORKMEN IN ALL PHASES OF WORK, COMPLYING WITH THE APPLICABLE PROVISIONS OF ALL CITY, STATE AND FEDERAL SAFETY LAWS (OSHA).



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| MECH / ELEC / PLUMB W-T GROUP 2675 Pratum Avenue Hoffman Estates, IL 60192 314.299.6333 (O) 314.298.6444 (F) XXX STATE CERTIFICATE OF AUTHORITY IL NO. 184.007570-0015 EXPIRES: 04.30.2025 WTG JOB: 02300047 |

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| ISSUANCE | | |
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| NO | DATE | DESCRIPTION |
| - | 02.02.2024 | OWNER'S REVIEW SET |
| - | 03.06.2024 | OWNER'S REVIEW SET |
| - | 03.18.2024 | BID SET |
| - | 04.01.2024 | VARIANCE REQUEST |
| - | 04.12.2024 | ADDENDUM #1 |
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LAKE COUNTY FUEL ISLAND REPLACEMENT
LAKE COUNTY DIVISION OF TRANSPORTATION
600 WEST WINCHESTER ROAD
LIBERTYVILLE, ILLINOIS 60048

Project Status

SYMBOLS AND SPECIFICATIONS

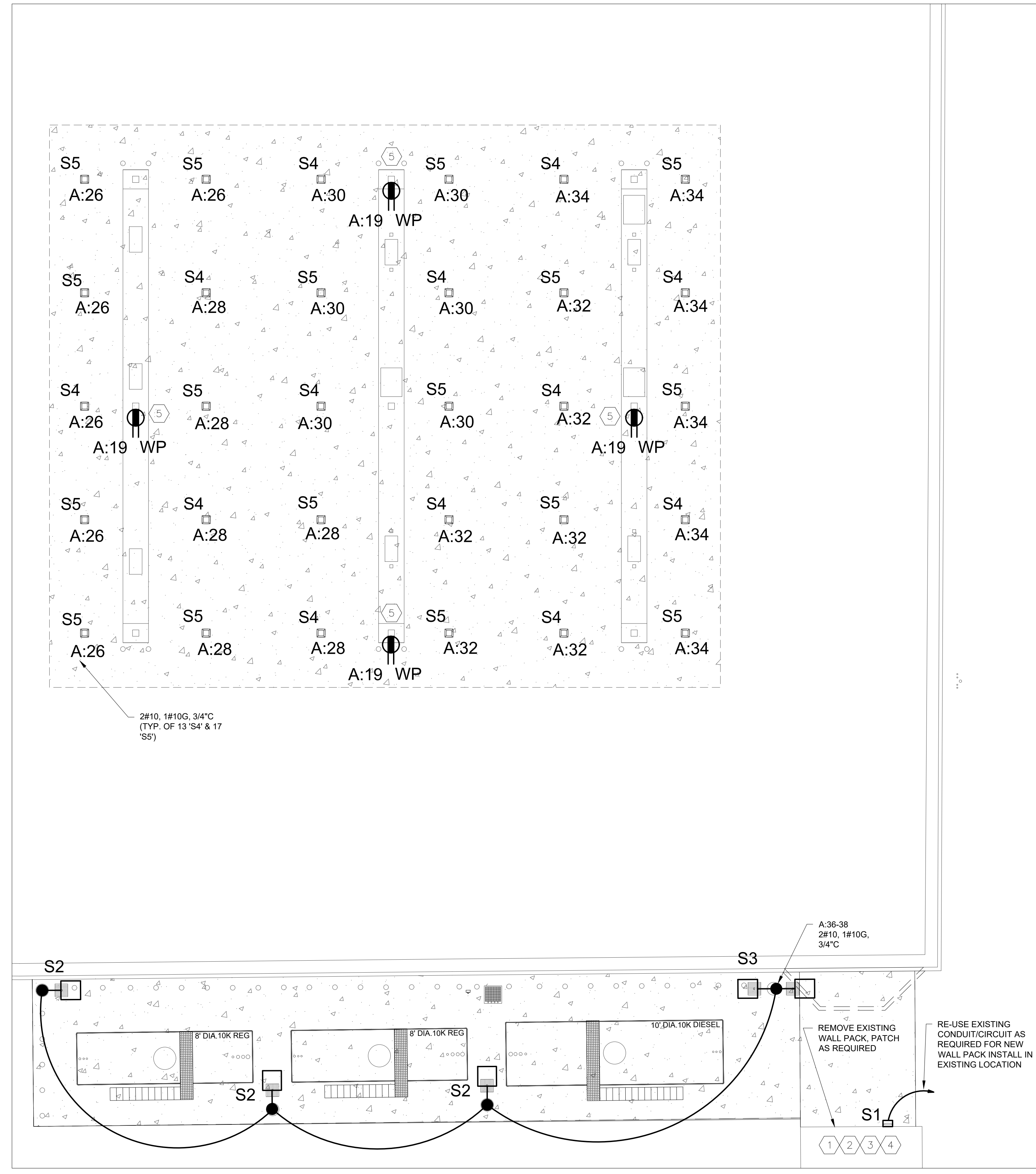
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File: \\s01\projects\184007570\184007570-0230-0000\184007570-0230-0000-001 - Tank & Piping Detail Plan & Sizing.dwg
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| LIGHTING FIXTURE SCHEDULE | | | | |
|---------------------------|-----------------------------------|----------|----------------|---|
| TYPE | DESCRIPTION & FEATURES | LAMPS | MOUNTING | SPECIFIED MANUFACTURER AND CATALOG NUMBER |
| | | TYPE | CLG./POLE-TYPE | |
| S1 | EXTERIOR WALL PACK | 52W LED | SURFACE/WALL | LSI -XWS-LED-6L-FTW-UNV-50-80CRI- |
| S2 | SINGLE HEAD POLE LIGHT | 135W LED | POLE | LSI -MRS-LED-18L-SIL-FT-UNV-50-70CRI- |
| S3 | DUAL HEAD (180 DEGREE) POLE LIGHT | 270W LED | POLE | ALBCS1-BRZ-EH (INCLUDE XWS 760159CLR) |
| S4 | SURFACE MOUNT LED CANOPY FIXTURE | 90W LED | SURFACE | ALBCS1-BRZ-IL-SINGLE BRZ-16" POLE+2" BASE |
| S5 | SURFACE MOUNT LED CANOPY FIXTURE | 90W LED | SURFACE | LSI -SCV-LED-13L-SC-50-WHT |

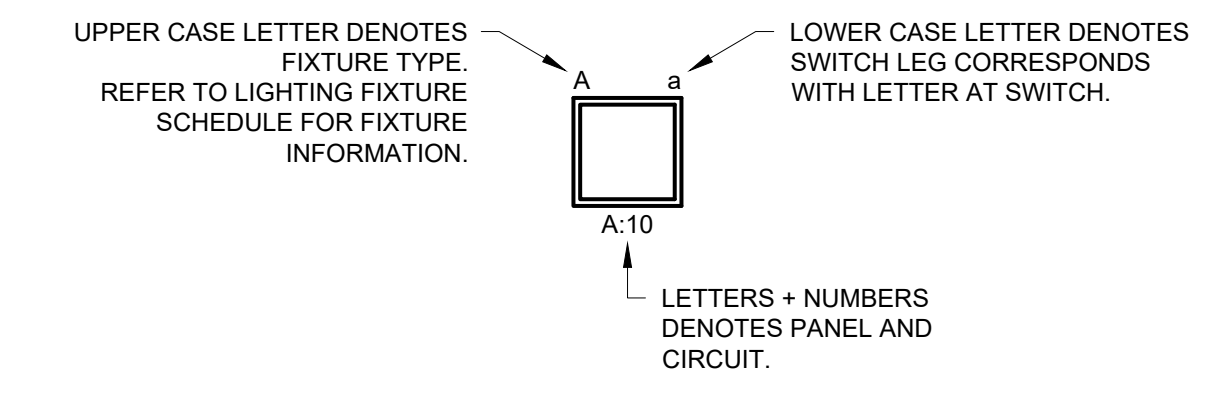
- NOTES:
- PROVIDE ALL ADDITIONAL HARDWARE FOR FIXTURE MOUNTING AS REQUIRED AT NO EXTRA COST.
 - THE FIXTURE SCHEDULE DOES NOT NECESSARILY LIST ALL ACCESSORIES AND HARDWARE NECESSARY FOR THE COMPLETION OF INSTALLATION. NOR DOES IT DETAIL THE CEILING CONSTRUCTION TO BE ENCOUNTERED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY DETERMINE AND PROVIDE CORRECT COMPONENTS, ACCESSORIES, AND HARDWARE AS REQUIRED FOR THE INSTALLATION.
 - CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND CEILING/CANOPY CONTRACTOR FOR EXACT LIGHTING FIXTURE LOCATION.
 - EMERGENCY LIGHTING SHALL BE PROVIDED WITH SEPARATE EMERGENCY BATTERY PACK POWERED WITH SEPARATE HOT LEG. THE NORMAL BALLAST SHALL BE CONNECTED WITH ALL OTHER NORMAL FIXTURES CONTROLS. THE FIXTURE SHALL ACT AS A NORMAL CONTROLLABLE FIXTURE UNTIL LOSS OF POWER, AT THAT CONDITION EMERGENCY BATTERY PACK SHALL ENERGIZE LAMPS
 - CONTRACTOR SHALL CONFIRM ALL LIGHT FIXTURE SPECIFICATIONS WITH OWNER PRIOR TO ORDERING.
 - AIRLINK BLUE WIRELESS MOTION AND PHOTO SENSOR SHALL BE SETUP TO HAVE SITE OFF DURING DAYLIGHT HOURS, AND SET AT 30% ON FROM DUSK TILL DAWN, AND FULL SITE TO GO TO 100% IF ANY MOTION IS SENSED ONSITE.



GENERAL NOTES

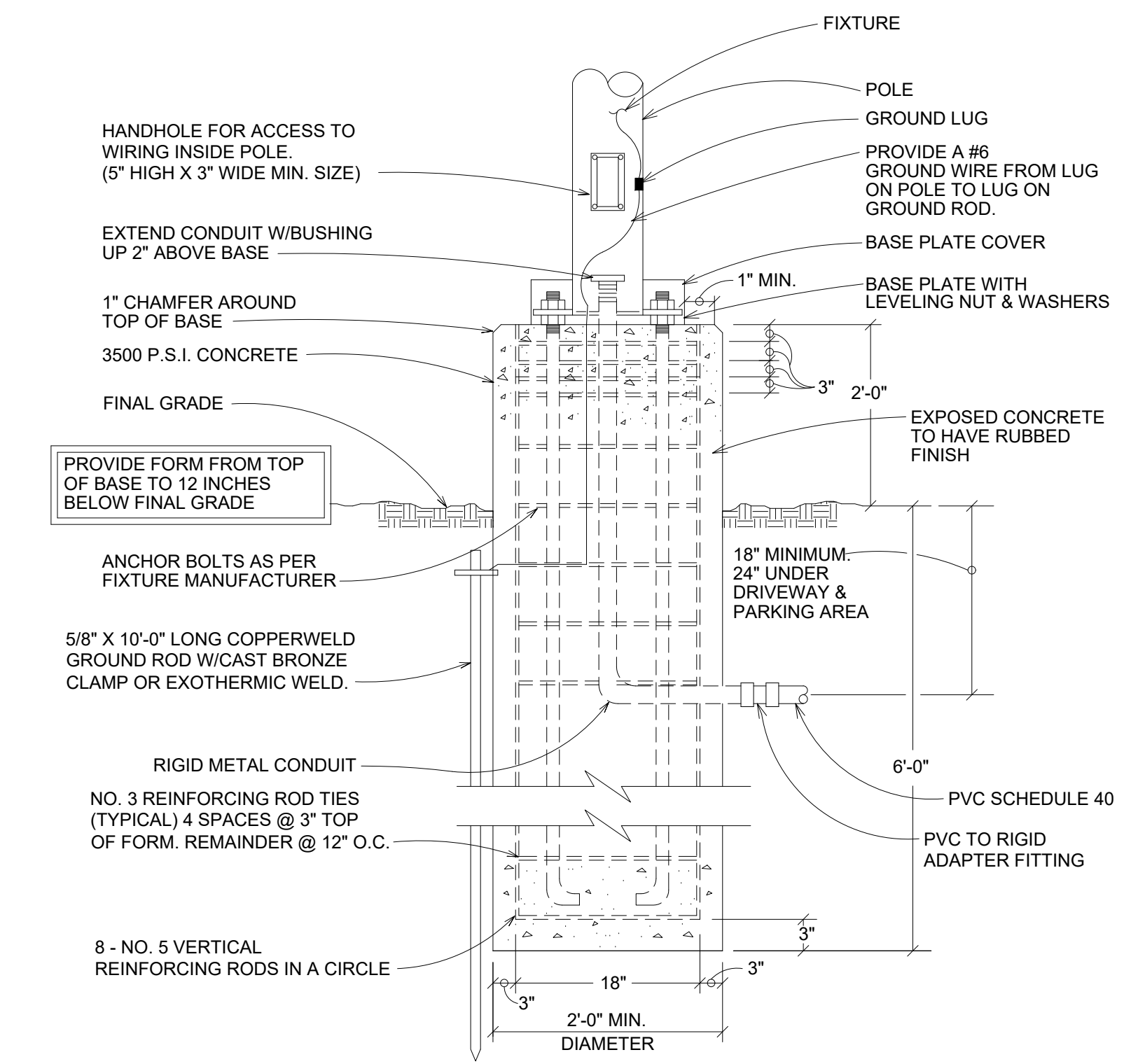
- BRANCH CIRCUITS SHOWN THAT ARE 120V, 20A, 1 POLE SHALL BE 2#12, 1#12G, 3/4" UNLESS OTHERWISE NOTED. CONTRACTOR MAY NETWORK CIRCUITS, IF NETWORKING IS CHOSEN, CONTRACTOR MUST COMPLY WITH LATEST ACCEPTED VERSION OF THE NEC.
- CONTRACTOR MUST TAKE INTO CONSIDERATION VOLTAGE DROP ON LONGER RUNS. ANY RUN LONGER THAN 100' CONTRACTOR IS RESPONSIBLE FOR CHECKING VOLTAGE DROP AND INCREASING CONDUCTOR SIZE WHEN NECESSARY. ANY INCREASE IN CONDUCTOR SIZE IN ORDER TO COMPENSATE FOR VOLTAGE DROP REQUIRES A PROPORTIONAL INCREASE IN THE SIZE OF THE EQUIPMENT GROUNDING CONDUCTOR FOR THAT FEEDER OR CIRCUIT.
- VERIFY EQUIPMENT LOCATIONS AND REQUIREMENTS WITH OTHER TRADES AND CONTRACTORS.
- CONTRACTOR SHALL VERIFY EXACT LOCATIONS AND QUANTITIES OF SITE LIGHTING FIXTURES WITH CIVIL DRAWINGS AND OWNER PRIOR TO ORDERING.
- EACH NEW LIGHTING POLE SHALL BE CONNECTED TO AN APPROVED EQUIPMENT GROUNDING CONDUCTOR WHICH SHALL ORIGINATE IN THE ELECTRICAL PANEL BOARD THAT SUPPLIES THE POWER FOR THE LIGHTING POLE. ALL FIXTURES MUST BE ABLE TO BE SERVICED WITHOUT DISMANTLING THE FIXTURE HANGING EQUIPMENT.
- ALL EXPOSED METAL PARTS OF THE PROPOSED LIGHT POLES SHALL BE EFFECTIVELY CONNECTED TOGETHER AND TO THE ELECTRICAL SUPPLY SOURCE IN A MANNER THAT CREATES A LOW-IMPEDANCE PATH FOR GROUND FAULT CURRENT THAT FACILITATES THE OPERATION OF THE CIRCUIT OVERCURRENT PROTECTION DEVICE, PER NEC 250.4(A)(5) AND NEC 410.30(8)(5).
- UNDERGROUND PVC CONDUITS SHALL BE BURIED 18" BELOW GRADE.

LIGHTING LEGEND



KEYED NOTES

- EXISTING PAD MOUNTED TRANSFORMER SERVING FUELING SITE TO REMAIN.
- EXISTING SERVICE ENTRANCE PRIMARY; EXISTING TO REMAIN ON CAMPUS AT DIFFERENT LOCATION. PROTECT DURING CONSTRUCTION. REFER TO E101 FOR ADDITIONAL INFORMATION.
- EXISTING SERVICE ENTRANCE SECONDARY; EXISTING TO REMAIN, PROTECT DURING CONSTRUCTION. REFER TO E101 FOR ADDITIONAL INFORMATION.
- TELEPHONE AND DATA SERVICE ENTRANCE EXISTING TO REMAIN, PROTECT DURING CONSTRUCTION. REFER TO E101 FOR ADDITIONAL INFORMATION.
- RECEPTACLE MOUNTED ON BOTTOM OF SITE LIGHTING POLE. PROVIDE 2#10, 1#10G, 3/4" TO AND BETWEEN RECEPTACLES ON THE SAME CIRCUIT.



1 TANK AND PIPING PLAN
SCALE: 1" = 10'-0"

2 CONCRETE POLE BASE DETAIL
SCALE: N.T.S.



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LAKE COUNTY DIVISION OF TRANSPORTATION
600 WEST WINCHESTER ROAD
LIBERTYVILLE, ILLINOIS 60048

Project Status

ELECTRICAL SITE PLAN & DETAILS

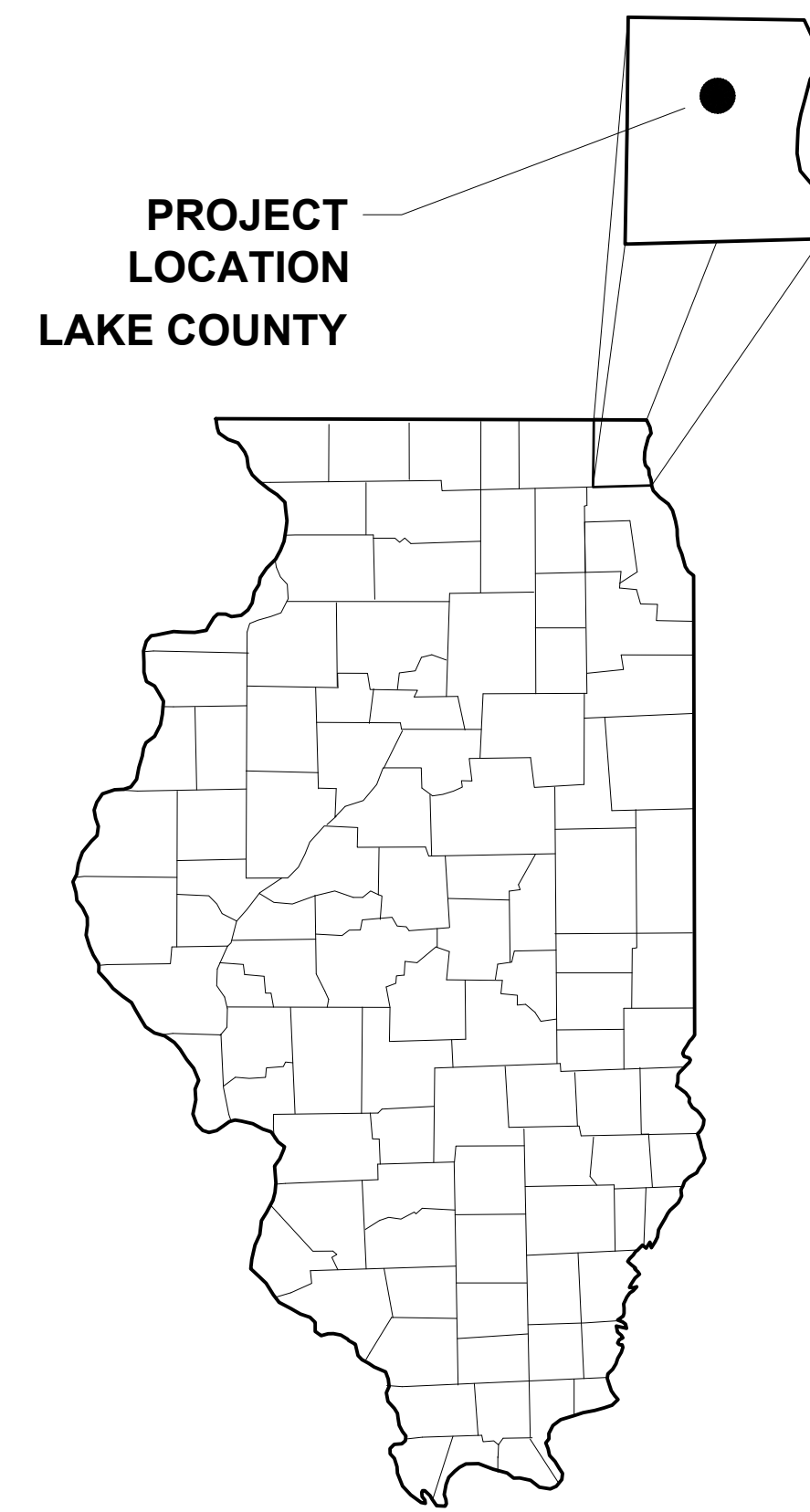
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LAKE COUNTY FUEL ISLAND REPLACEMENT

LAKE COUNTY DIVISION OF TRANSPORTATION

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GENERAL LOCATION MAP

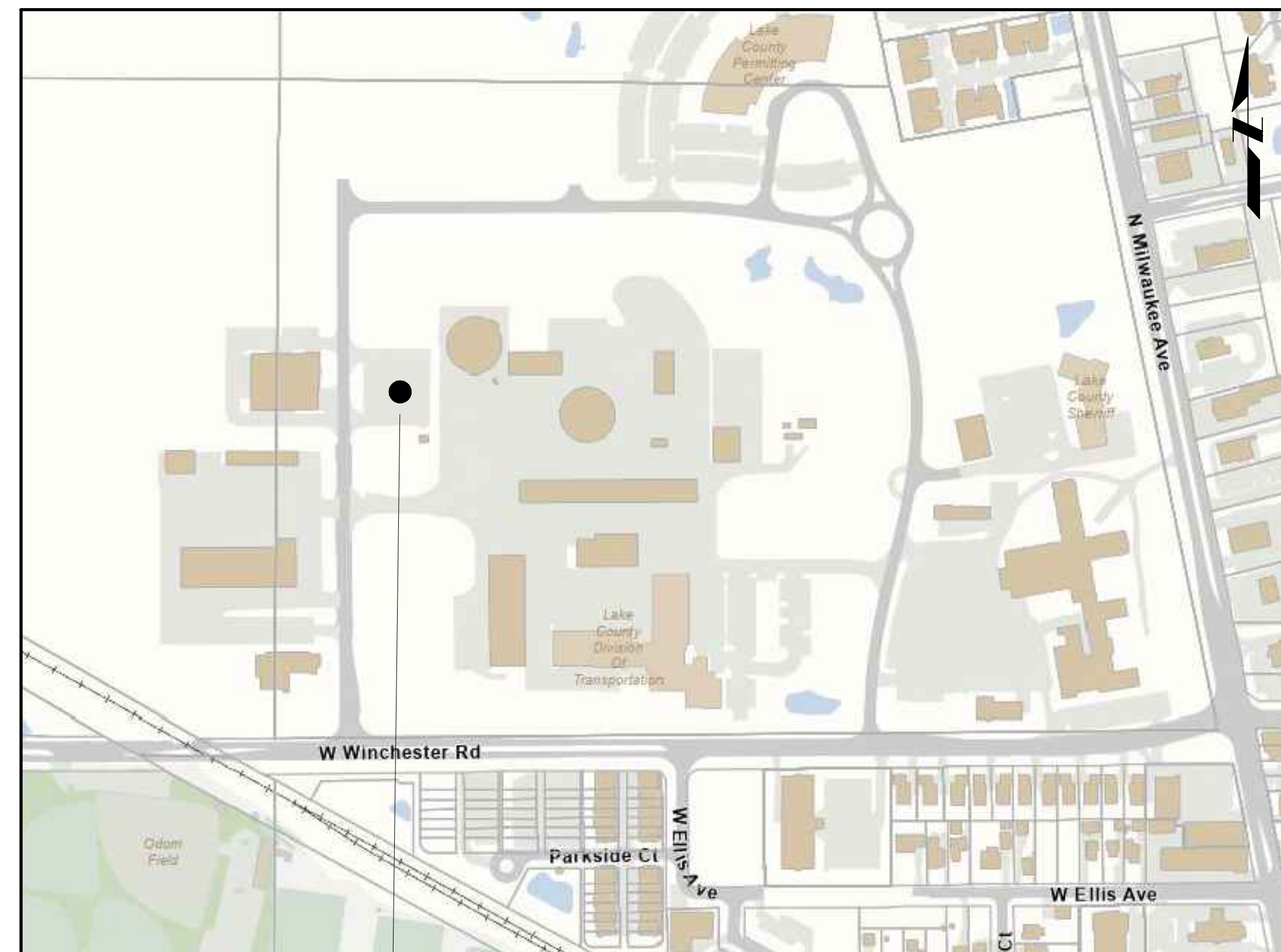
PROPERTY PIN
11-16-1000-01

ZONING
IB - INSTITUTIONAL BUISNESS

AREA OF DEVELOPMENT
1.3 ACRES

AREA OF DISTURBANCE
1.3 ACRES

BENCHMARK/SURVEY INFORMATION
SURVEY WORK COMPLETE BY CLARK DIETZ
JANUARY 2024.
VERTICAL DATUM = NAV88
HORIZONTAL DATUM = NAD83



PROJECT LOCATION
600 WEST WINCHESTER
LIBERTYVILLE, ILLINIOS 60048

PROJECT LOCATION MAP
N.T.S.

DRAWING INDEX

| DWG NO | DESCRIPTION |
|--------|------------------------------|
| C-101 | COVER SHEET |
| C-102 | GENERAL NOTES |
| C-103 | EXISTING CONDITIONS |
| C-104 | DEMOLITION PLAN |
| C-105 | PROPOSED GEOMETRIC PLAN |
| C-106 | PROPOSED UTILITY PLAN |
| C-107 | DRAINAGE AND GRADING PLAN |
| C-108 | SWPPP AND RESTORATION PLAN |
| C-109 | CONCRETE FUEL ISLAND DETAILS |
| C-110 | CONSTRUCTION DETAILS - 1 |
| C-111 | CONSTRUCTION DETAILS - 2 |
| L-101 | LANDSCAPE PLAN |



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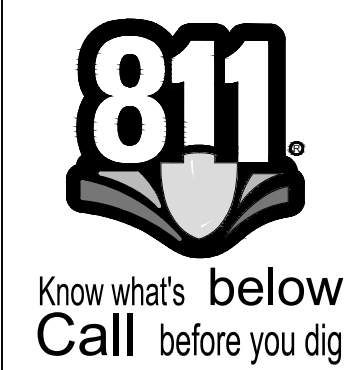
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COVER SHEET

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C-101

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GENERAL NOTES

- WHERE SECTION OR SUBSECTIONS MONUMENTS, BENCHMARKS, OR IRON PIPE MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BY THE CONTRACTOR BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN ILLINOIS REGISTERED LAND SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL HAVE AN ILLINOIS REGISTERED LAND SURVEYOR RE-ESTABLISH ALL MONUMENTS UNNECESSARILY DESTROYED BY HIS/HER OPERATIONS AT THE CONTRACTOR'S EXPENSE.
- THE FOLLOWING CODES AND STANDARDS, AS APPLICABLE, SHALL GOVERN CONSTRUCTION UNDER THIS CONTRACT:
 - STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" MOST RECENT AND THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", MOST RECENT AND ALL SUBSEQUENT REVISIONS THERETO, HEREINAFTER REFERRED TO AS THE STANDARD SPECIFICATIONS OR SSRB.
 - STATE OF ILLINOIS, "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS", LATEST EDITION AND ALL SUBSEQUENT REVISIONS THERETO, HEREINAFTER REFERRED TO AS THE STANDARD SEWER AND WATER SPECIFICATIONS.
 - "MANUAL ON TRAFFIC CONTROL DEVICES", LATEST EDITION WITH MOST RECENT REVISIONS, AND THE "ILLINOIS SUPPLEMENT TO THE NATIONAL MANUAL ON TRAFFIC CONTROL DEVICES", LATEST EDITION WITH MOST RECENT REVISIONS, AND ALL SUBSEQUENT REVISIONS THERETO, HEREINAFTER REFERRED TO AS THE "MUTCD".
 - MOST RECENT ILLINOIS URBAN MANUAL ("IUM"), AND ALL SUBSEQUENT REVISIONS.
- THE CONTRACTOR SHALL NOTIFY ALL LOCAL UTILITY COMPANIES AND REQUEST FACILITIES BE LOCATED A MINIMUM OF SEVEN (7) CALENDAR DAYS PRIOR TO BEGINNING CONSTRUCTION. THE LOCAL UTILITY COMPANIES INCLUDE, BUT ARE NOT LIMITED TO:
 - EXISTING UTILITIES SHOWN ARE INDICATED IN ACCORDANCE WITH AVAILABLE RECORDS AND FIELD SURVEY. PROTECT EXISTING UTILITIES DURING CONSTRUCTION. CONTRACTOR SHALL CONTACT JULIE HOTLINE FOR UTILITY LOCATES AND SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS OF THE UTILITY MAINS AND SERVICES DURING CONSTRUCTION. THE CONTRACTOR SHALL NOT BEGIN CONSTRUCTION UNTIL THE UTILITY COMPANIES HAVE CONFIRMED THAT THEY HAVE MARKED ON THE GROUND, THE LOCATION OF THEIR FACILITIES INCLUDING BUT NOT LIMITED TO: UNDERGROUND PIPES, MAINS, CONDUITS, OR CABLES ADJOINING OR CROSSING PROPOSED CONSTRUCTION.
- THESE PLANS, CONSISTING OF DRAWINGS, DETAILS, ANNOTATIONS, AND NOTES, ARE COOPERATIVE AND COMPLEMENTARY. PLANS ARE INTENDED TO COMMUNICATE THE BASIS FOR COMPLETION OF THE WORK REQUIRED FOR A COMPLETE AND FINISHED PROJECT. ALL LABOR AND MATERIALS REQUIRED TO FULLY CARRY OUT THE INTENTIONS OF THE CONTRACT DOCUMENTS ARE PART OF THE CONTRACT, WHETHER OR NOT SPECIFICALLY NOTED.
- CONTRACTOR SHALL PROVIDE A COMPLETE AND FINISHED PROJECT. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, TOOLS, EQUIPMENT, AND SERVICES, WHETHER STATED OR IMPLIED, REQUIRED TO ACCOMPLISH THE WORK AS WELL AS GENERALLY REQUIRED TO PROVIDE A COMPLETE AND FINISHED PROJECT.
- CONTRACTOR SHALL VISIT THE SITE AND VERIFY THAT CURRENT EXISTING SITE CONDITIONS MATCH EXISTING CONDITIONS SHOWN ON THE PLANS. BIDS AND WORK SHALL BE BASED ON THE PLANS AND THE CONTRACTOR'S FIELD VERIFICATION OF: EXISTING CONDITIONS; EXISTING DIMENSIONS; AND EXISTING GRADES, STRUCTURES, AND FACILITIES WHERE PROPOSED WORK MEETS EXISTING CONDITIONS. BY SUBMITTING A BID OR EXECUTING THE CONTRACT WITH THE OWNER, THE CONTRACTOR REPRESENTS THAT THEY HAVE VISITED THE SITE AND UNDERSTANDS THE EXISTING LOCAL CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER ABOUT ANY DISCREPANCIES THAT MAY AFFECT THE WORK SHOWN ON THE PLANS.
- NO CLAIMS FOR EXTRA WORK WILL BE RECOGNIZED UNLESS AUTHORIZED IN WRITING BY THE OWNER.
- THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL IN CONFORMANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND ARTICLE 107.14 OF THE STANDARD SPECIFICATIONS.
- TREES AND SHRUBS ARE TO BE REMOVED AS SHOWN ON PLANS AND WITH APPROVAL OF ENGINEER.

PROTECT ALL TREES THAT ARE TO REMAIN.

- ALL MATERIALS SHALL BE ACCORDING TO THE MOST CURRENT ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD AND SPECIFICATIONS, THE ILLINOIS URBAN MANUAL, AND/OR ASTM STANDARDS, WHICHEVER IS MOST STRINGENT.
- THE EDGES OF ALL IMPROVED SURFACES WHICH ARE DISTURBED DURING CONSTRUCTION SHALL BE SAW CUT PRIOR TO RESTORATION.

SITE GRADING AND DRAINAGE NOTES

- RESTRICT GRADING TO THE LIMITS OF DISTURBANCE SHOWN ON PLAN. GRADING OUTSIDE OF THE LIMITS IS PROHIBITED AND MUST BE AUTHORIZED BY OWNER.
- DETERMINE LOCATION AND ELEVATION OF ANY EXISTING UTILITIES WITHIN THE GRADING LIMITS.
- GRADES SHALL NOT EXCEED 3:1 SLOPES. ALL GRADES SHALL MATCH SMOOTHLY WITH ADJACENT TOPOGRAPHY.
- CLEARING AND GRUBBING AREAS SHALL ALSO MATCH SMOOTHLY WITH ADJACENT TOPOGRAPHY. IN AREAS OF CLEARING AND GRUBBING, THE GRADING SHALL BE PERFORMED TO ENSURE THAT MOWING WILL NOT BE IMPEDED BY DEBRIS, RUTS, AND/OR PONDING OF WATER.
- PROOF ROLL THE PARKING LOT BEFORE AND AFTER REMOVAL OF TOPSOIL. SEGMENTS OF THE PARKING LOT WHICH FAIL TO PERFORM UNDER PROOF ROLLING SHALL BE UNDERCUT, STABILIZED WITH ADDITIONAL ROADWAY AGGREGATE AND PROOF ROLLED AGAIN FOR CONFORMANCE.
- MAINTAIN ALL EXISTING DRAINAGE SYSTEMS (DITCHES, SWALES, PIPING, DRAIN TILES, ETC.).
- FINE GRADE TOPSOIL, SEED & MULCH OF ALL AREAS DISTURBED DURING CONSTRUCTION. TOPSOIL SHALL BE A MINIMUM DEPTH OF FOUR (4") INCHES AND FREE OF CLUMPS.
- PREVENT ROCK AND GRAVEL FROM ENTERING THE PUBLIC ROAD AND HIGHWAY. MAINTENANCE OF THE ENTRANCE AND NEARBY PUBLIC ROADS, SUCH AS SWEEPING AND CLEANING, IS REQUIRED.
- ANY AREAS OF CUT THAT HAVE SUITABLE MATERIALS, SHALL BE USED IN AREAS OF FILL.
- CONTRACTOR IS RESPONSIBLE FOR ALL APPROVED DEWATERING TECHNIQUES, TEMPORARY SOIL EROSION AND SEDIMENT CONTROL, AND PERMANENT STABILIZATION OF THE SITE FOR ALL GRADING ACTIVITIES.
- THE GRADING AND CONSTRUCTION OF PROPOSED IMPROVEMENTS SHALL NOT CAUSE PONDING OF STORMWATER. GRADING SHALL BE DONE TO ALLOW POSITIVE DRAINAGE.

SYMBOL LEGEND

| | | | | | | | | |
|-----|----------------------------------|----|----------------------------------|---------------------------------|----------------------|----------|-----------------------------|-------------------------------------|
| CTV | CABLE TV PEDESTAL | X | YARD LIGHT | Quarter Corner | Antenna | AC | EXISTING ACCESS CONTROL | RAIL ROAD TRACKS |
| S | SATELLITE DISH | S | SPRINKLER CONTROL BOX | RIGHT-OF-WAY MARKER | BOLLARD | AC | PROPOSED ACCESS CONTROL | RAW WATER LINE (SIZE) |
| T | TELEPHONE BOX | G | SPRINKLER HEAD | SECTION CORNER | CATTLE PASS | BREAK | | REMOVAL - 1 |
| B | TELEPHONE BOOTH | G | GAS SERVICE BOX | WITNESS CORNER | DELINEATOR | CATV | CABLE TV LINE | REMOVAL - 2 |
| P | TELEPHONE POLE | G | GAS METER | PRIVATE SIGN POST | DRAINAGE MARKER | CATV(FO) | CABLE TV (FIBER OPTIC) LINE | REVERSE SLOPE |
| M | TELEPHONE MANHOLE | GR | GAS REGULATOR | STREET SIGN | FLAG POLE | OHCATV | OVERHEAD CABLE TV LINE | SANITARY PIPE |
| PT | TELEPHONE PEDESTAL | G | GAS VALVE | TRAFFIC SIGN | GUY POLE | COM | COMMUNICATION LINE | COMBINATION SEWER PIPE |
| PH | TELEPHONE PEDESTAL PAY PHONE | F | GAS VENT PIPE | BUSH | GUY WIRE | FM | DITCH LEFT (PROFILE) | SANITARY FORCE MAIN |
| HY | FIRE HYDRANT | R | REFLECTIVE PAVEMENT MARKER 1 WAY | CONIFEROUS TREE | MAILBOX | | DITCH RIGHT (PROFILE) | SECTION LINE |
| F | FLUSH OUT HYDRANT | R | REFLECTIVE PAVEMENT MARKER 2 WAY | DECIDUOUS TREE | PARKING BLOCK | | ELECTRIC CONDUIT | DWG PILING |
| SP | WATER SPIGOT | R | RAILROAD FLASHING SIGNAL | STUMP | PILLAR | OHE | OVERHEAD ELECTRIC LINE | SILT FENCE |
| WS | WATER SERVICE BOX | R | RAILROAD CROSSING GATE | GAS TANK FILLER CAP | PARKING METER | UGE | UNDERGROUND ELECTRIC LINE | STAGE CONSTRUCTION JOINT |
| W | WELL | R | RAILROAD CROSSBUCK | INSPECTION WELL | POST OR MISC. POLE | X | FENCE | STORM EXISTING |
| M | WATER METER | C | CLEANOUT | METER UNKNOWN | TANK | FO | FIBER OPTIC LINE | STORM PROPOSED |
| MA | WATER MANHOLE | L | LIFT STATION | MANHOLE | GATE POST | G 12" | EXISTING FLOW LINE | STORM LINE (WATER MAIN QUALITY) |
| V | WATER VALVE | S | SANITARY MANHOLE | PUMP | IRON PIN FOUND | | GAS (SIZE) | OVERHEAD TELEPHONE (FIBER OPTIC) |
| E | ELECTRIC BOX | S | SEPTIC TANK | UTILITY RISER AT POLE | FOUND/PLACE CHIS "X" | | EXISTING GUARD RAIL | UNDERGROUND TELEPHONE (FIBER OPTIC) |
| EM | ELECTRIC METER | S | SEPTIC TANK VENT | UTILITY WARNING SIGN | | | PROPOSED GUARD RAIL | OVERHEAD TELEPHONE |
| EMH | ELECTRIC MANHOLE | S | END SECTION METAL | VALVE UNKNOWN | | | EXISTING HAND RAIL | UNDERGROUND TELEPHONE |
| EP | ELECTRIC PEDESTAL | C | CATCH BASIN | VENT PIPE | | | PROPOSED HAND RAIL | TEMPORARY CONSTRUCTION EASEMENT - 1 |
| FL | FLOOD LIGHT | C | CATCH BASIN SQUARE | JUNCTION BOX | | | HEATED WATER | TEMPORARY CONSTRUCTION EASEMENT - 2 |
| H | HANDHOLE | DS | DOWNSPOUT | STRAIN POLE | | | HEDGE LINE | TEMPORARY TREE EASEMENT |
| OS | ORNAMENTAL STREET LIGHT | PS | END SECTION CONCRETE | TRAFFIC SIGNAL MAST ARM | | | KEYWAY | EXISTING TOP/BOTTOM OF SLOPE |
| P | PARKING LOT LIGHT DOUBLE | I | INLET AT CURB | TRAFFIC SIGNAL CONTROLLER | | | SANITARY LATERAL | PROPOSED TOP/BOTTOM OF SLOPE |
| P | PARKING LOT LIGHT SINGLE | M | STORM MANHOLE | TRAFFIC SIGNAL POST 2 WAY | | | PERMANENT EASEMENT | TREE LINE |
| PO | POWER POLE | B | BENCHMARK | TRAFFIC SIGNAL POST 3 WAY | | | PM CROSSWALK | UNDERDRAIN LINE |
| PL | POWER POLE WITH LIGHT | D | DATA X | TRAFFIC SIGNAL PED. SIGNAL HEAD | | | PROPERTY LINE | WATER LINE (SIZE) |
| PT | POWER POLE W/TRANSFORMER | D | DATA COLLECTION POINT | TRAFFIC SIGNAL PED. PUSH BUTTON | | | EXISTING RIGHT-OF-WAY | WATER IRRIGATION LINE |
| PTL | POWER POLE W/TRANSFORMER & LIGHT | M | MONUMENT | CORES IN PAVEMENT | | | PROPOSED RIGHT-OF-WAY | CONSTRUCTION LIMITS |



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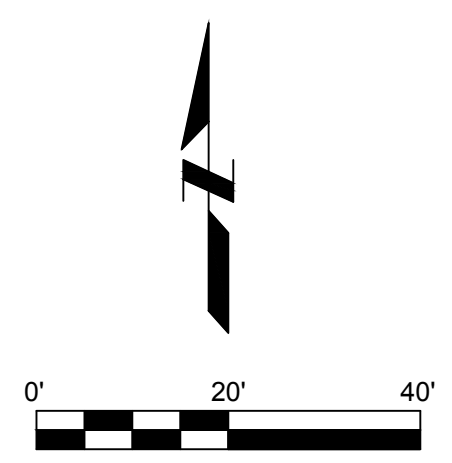
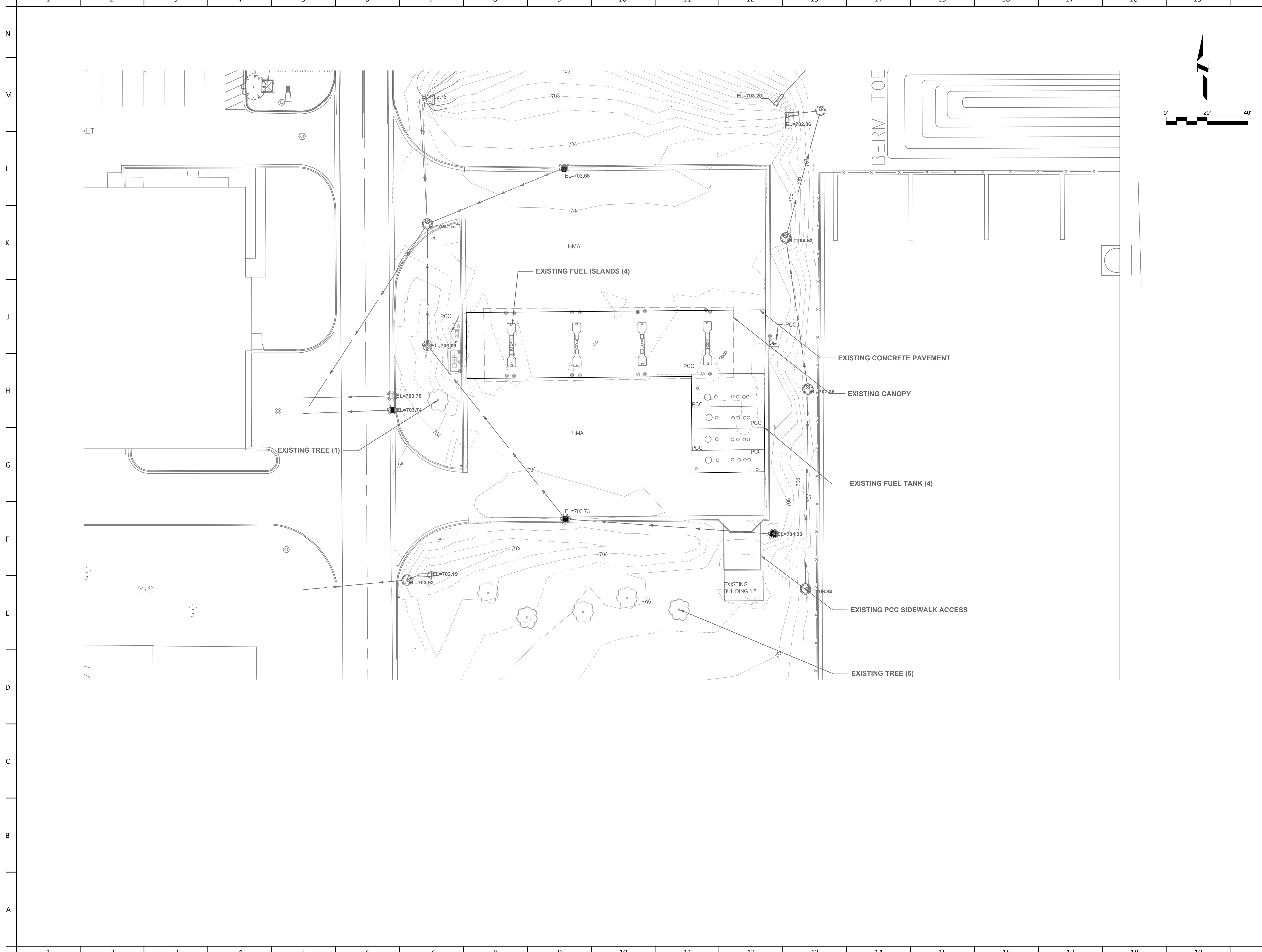
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| 3 | 03.07.2024 | OWNER'S REVIEW |
| 4 | 04.12.2024 | ADDENDUM #1 |
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**LAKE COUNTY FUEL ISLAND
 REPLACEMENT**

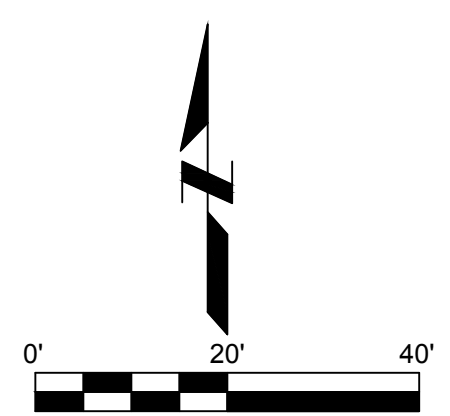
LAKE COUNTY DIVISION OF TRANSPORTATION
 600 WEST WINCHESTER ROAD
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Project Status

EXISTING CONDITIONS

SHEET NO.
C-103

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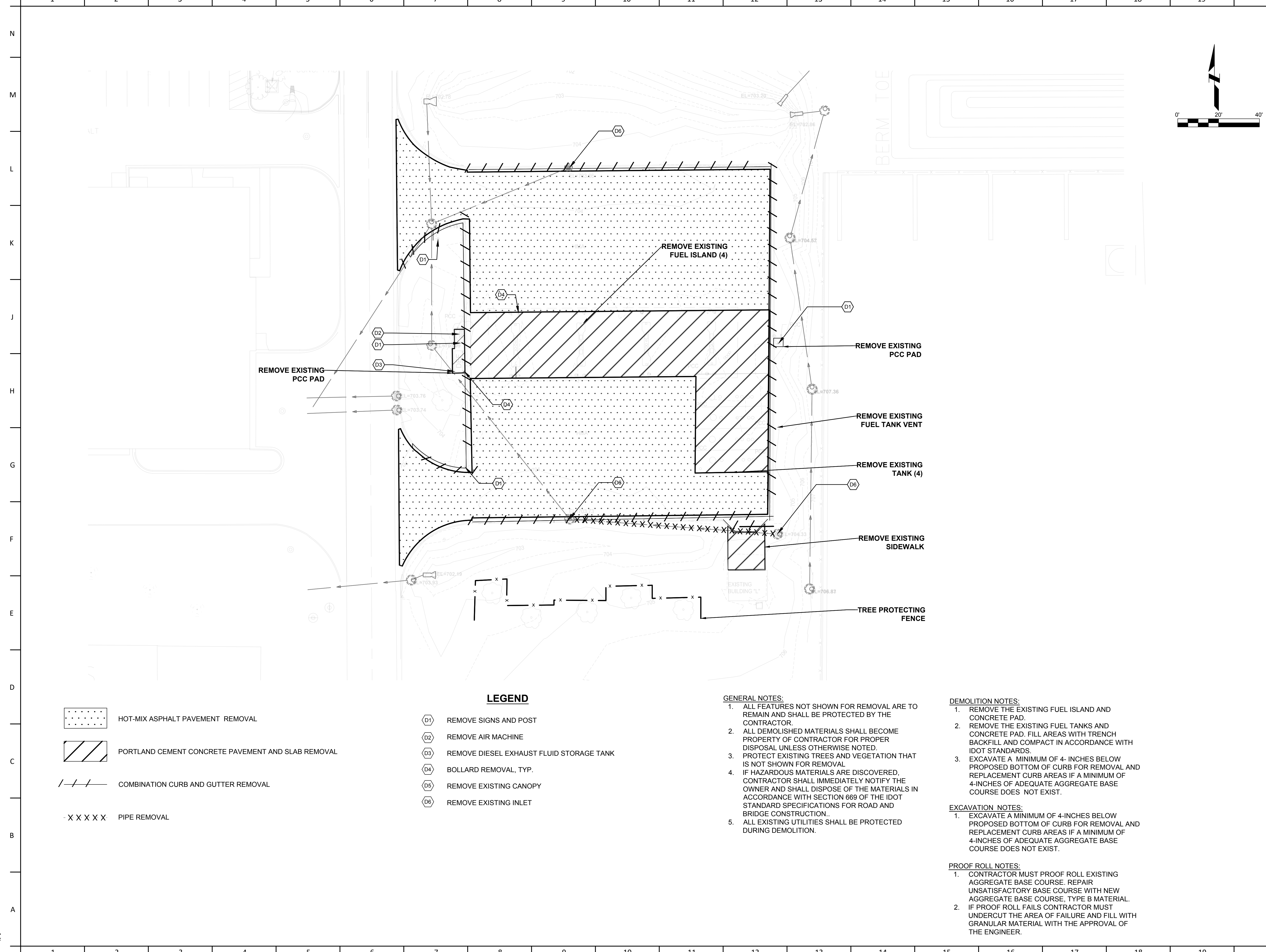
**LAKE COUNTY FUEL ISLAND
REPLACEMENT**
LAKE COUNTY DIVISION OF TRANSPORTATION
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LIBERTYVILLE, ILLINOIS 60048

Project Status

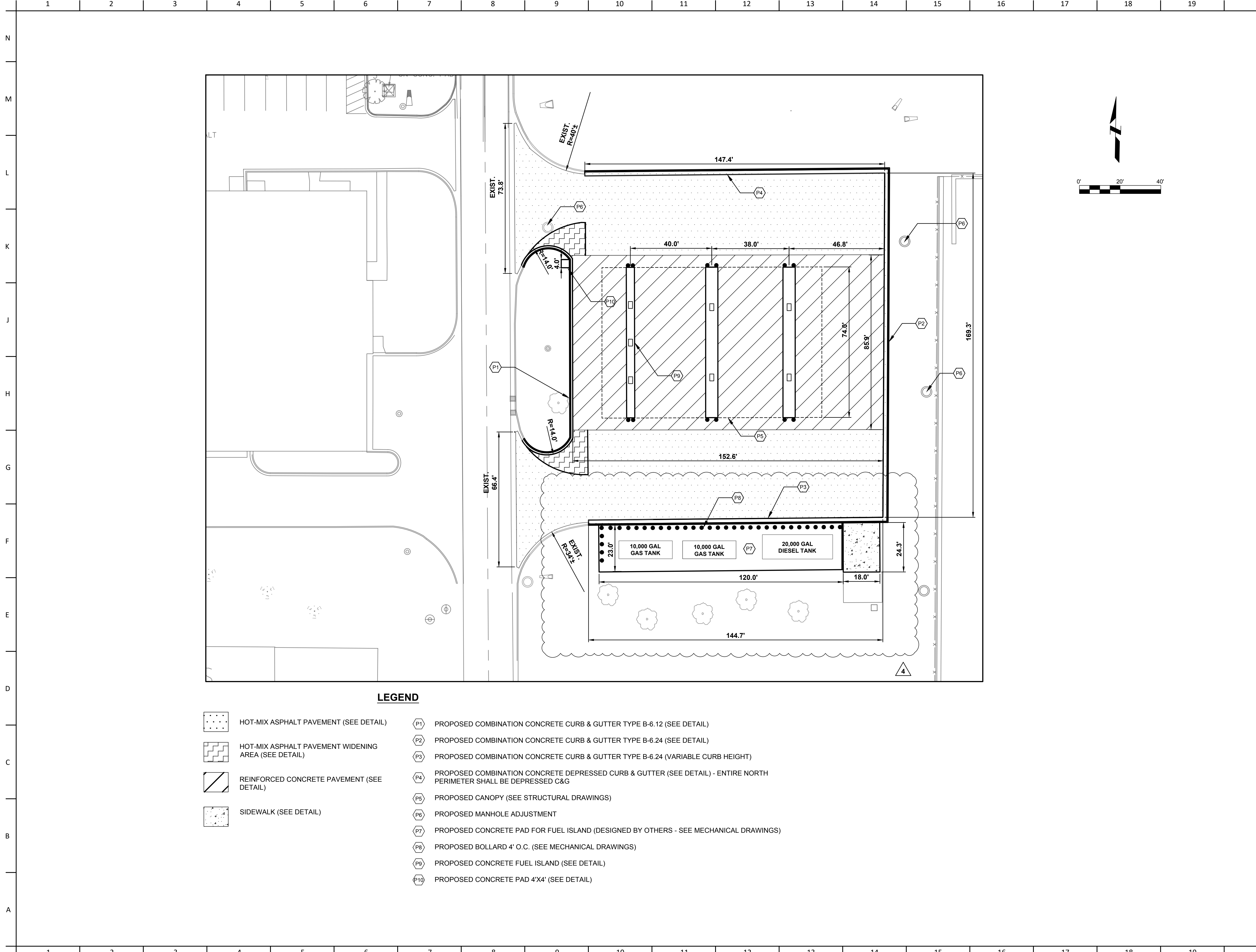
DEMOLITION PLAN

SHEET NO.
C-104

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**LAKE COUNTY FUEL ISLAND
 REPLACEMENT**
 LAKE COUNTY DIVISION OF TRANSPORTATION
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PROPOSED GEOMETRIC PLAN

SHEET NO.
C-105

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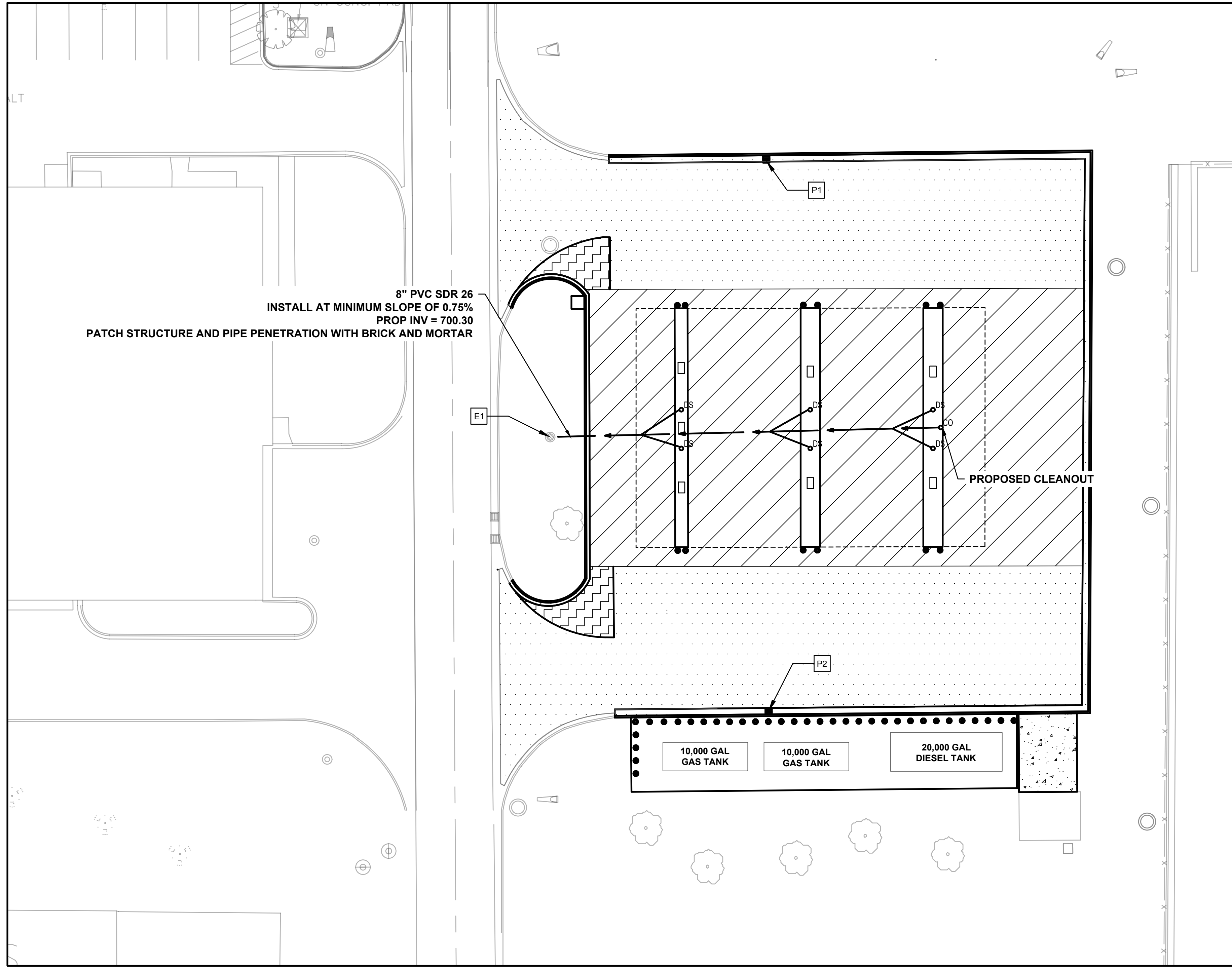
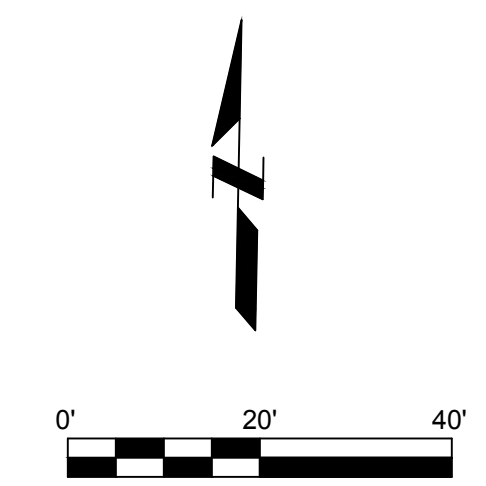
LEGEND

- HOT-MIX ASPHALT PAVEMENT (SEE DETAIL)
- HOT-MIX ASPHALT PAVEMENT WIDENING AREA (SEE DETAIL)
- REINFORCED CONCRETE PAVEMENT (SEE DETAIL)
- SIDEWALK (SEE DETAIL)
- P1 PROPOSED COMBINATION CONCRETE CURB & GUTTER TYPE B-6.12 (SEE DETAIL)
- P2 PROPOSED COMBINATION CONCRETE CURB & GUTTER TYPE B-6.24 (SEE DETAIL)
- P3 PROPOSED COMBINATION CONCRETE CURB & GUTTER TYPE B-6.24 (VARIABLE CURB HEIGHT)
- P4 PROPOSED COMBINATION CONCRETE DEPRESSED CURB & GUTTER (SEE DETAIL) - ENTIRE NORTH PERIMETER SHALL BE DEPRESSED C&G
- P5 PROPOSED CANOPY (SEE STRUCTURAL DRAWINGS)
- P6 PROPOSED MANHOLE ADJUSTMENT
- P7 PROPOSED CONCRETE PAD FOR FUEL ISLAND (DESIGNED BY OTHERS - SEE MECHANICAL DRAWINGS)
- P8 PROPOSED BOLLARD 4' O.C. (SEE MECHANICAL DRAWINGS)
- P9 PROPOSED CONCRETE FUEL ISLAND (SEE DETAIL)
- P10 PROPOSED CONCRETE PAD 4'X4' (SEE DETAIL)

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8" PVC SDR 26
INSTALL AT MINIMUM SLOPE OF 0.75%
PROP INV = 700.30
PATCH STRUCTURE AND PIPE PENETRATION WITH BRICK AND MORTAR

PROPOSED CLEANOUT

10,000 GAL GAS TANK 10,000 GAL GAS TANK 20,000 GAL DIESEL TANK

PROPOSED STORM SEWER STRUCTURES

EXISTING STORM SEWER STRUCTURES

- P1** CATCH BASIN, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID WITH SNOOT BAFFLE
RIM = 703.70
INV = 700.55 (8" SW)
- P2** CATCH BASIN, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID WITH SNOOT BAFFLE
RIM = 703.80
INV = 700.80 (8" NW)

- E1** EXISTING INLET
RIM = 703.1

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LAKE COUNTY FUEL ISLAND REPLACEMENT
LAKE COUNTY DIVISION OF TRANSPORTATION
600 WEST WINCHESTER ROAD
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Project Status

PROPOSED UTILITY PLAN

SHEET NO.
C-106

JOB NO. 23-3764.02
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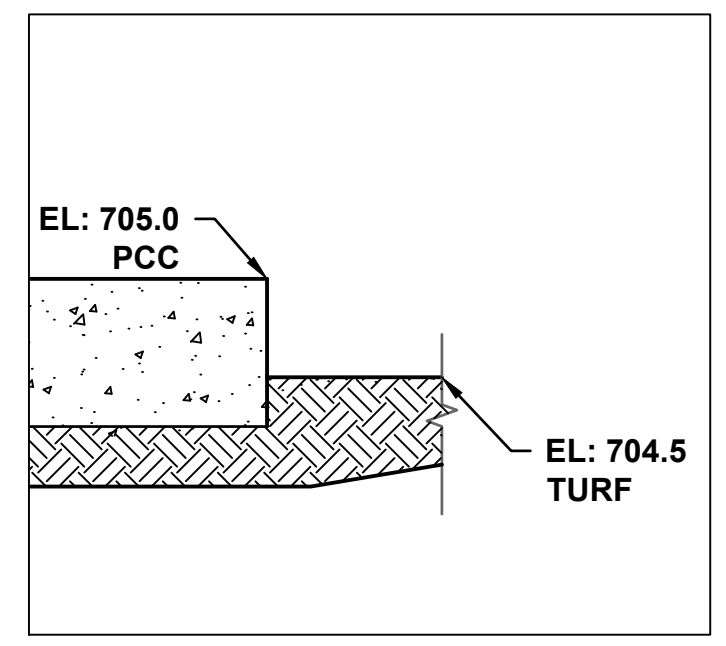
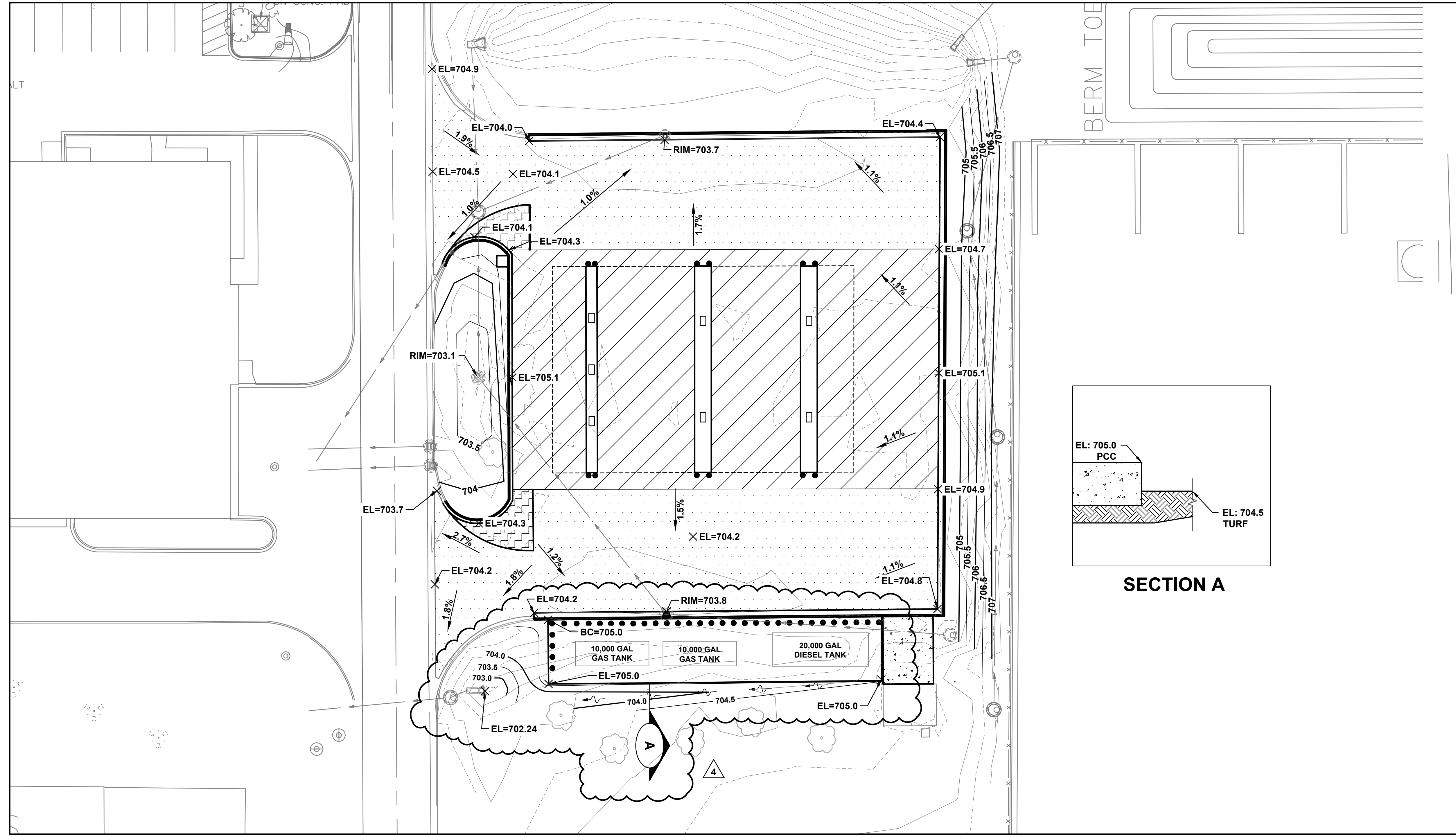
**LAKE COUNTY FUEL ISLAND
 REPLACEMENT**
 LAKE COUNTY DIVISION OF TRANSPORTATION
 600 WEST WINCHESTER ROAD
 LIBERTYVILLE, ILLINOIS 60048

Project Status

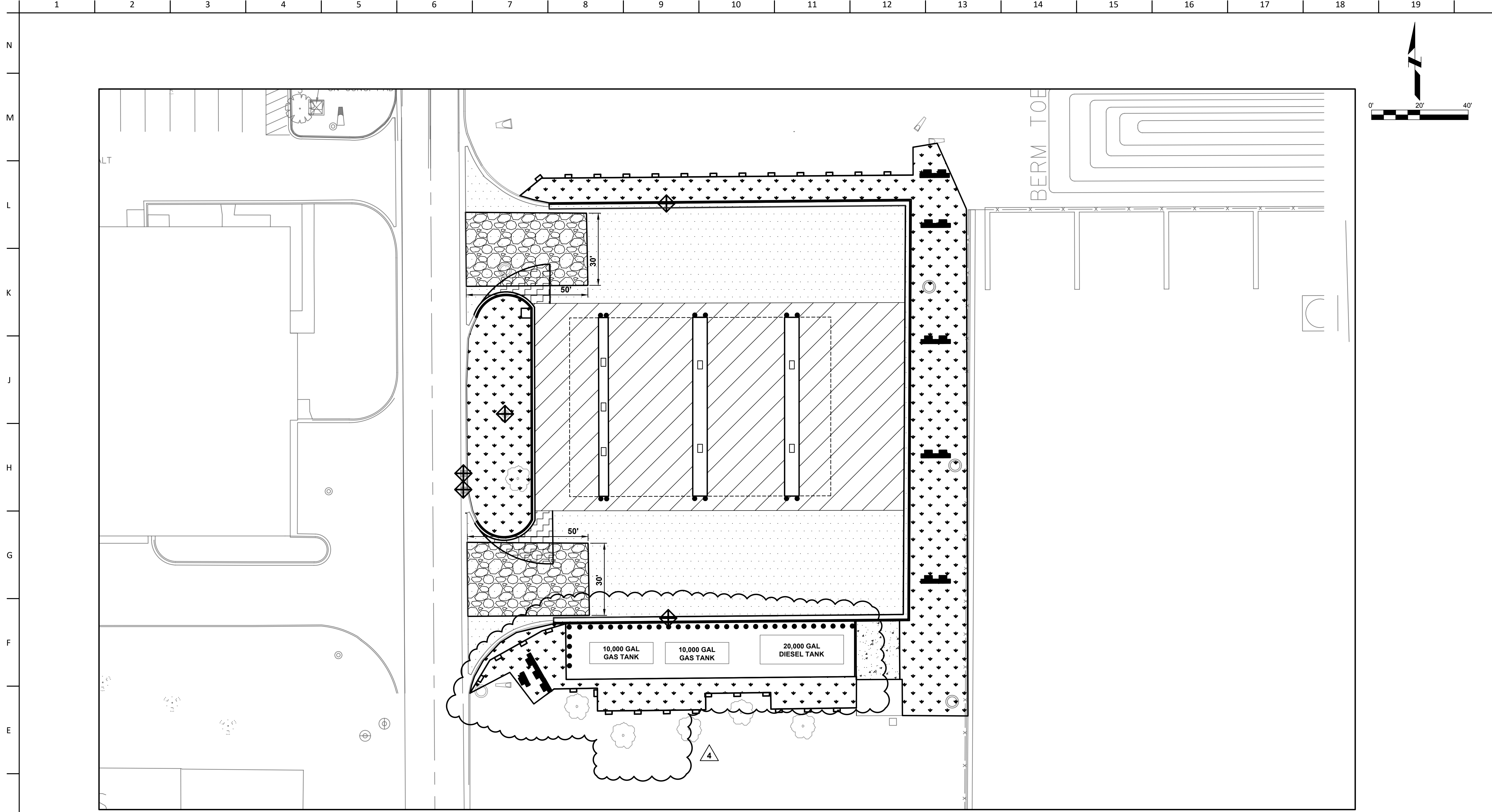
**DRAINAGE AND GRADING
 PLAN**

SHEET NO.
C-107

JOB NO. 23-3764.02
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SECTION A



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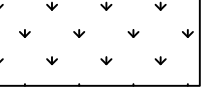
LAKE COUNTY FUEL ISLAND REPLACEMENT
 LAKE COUNTY DIVISION OF TRANSPORTATION
 600 WEST WINCHESTER ROAD
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SWPPP AND RESTORATION PLAN

SHEET NO.
C-108

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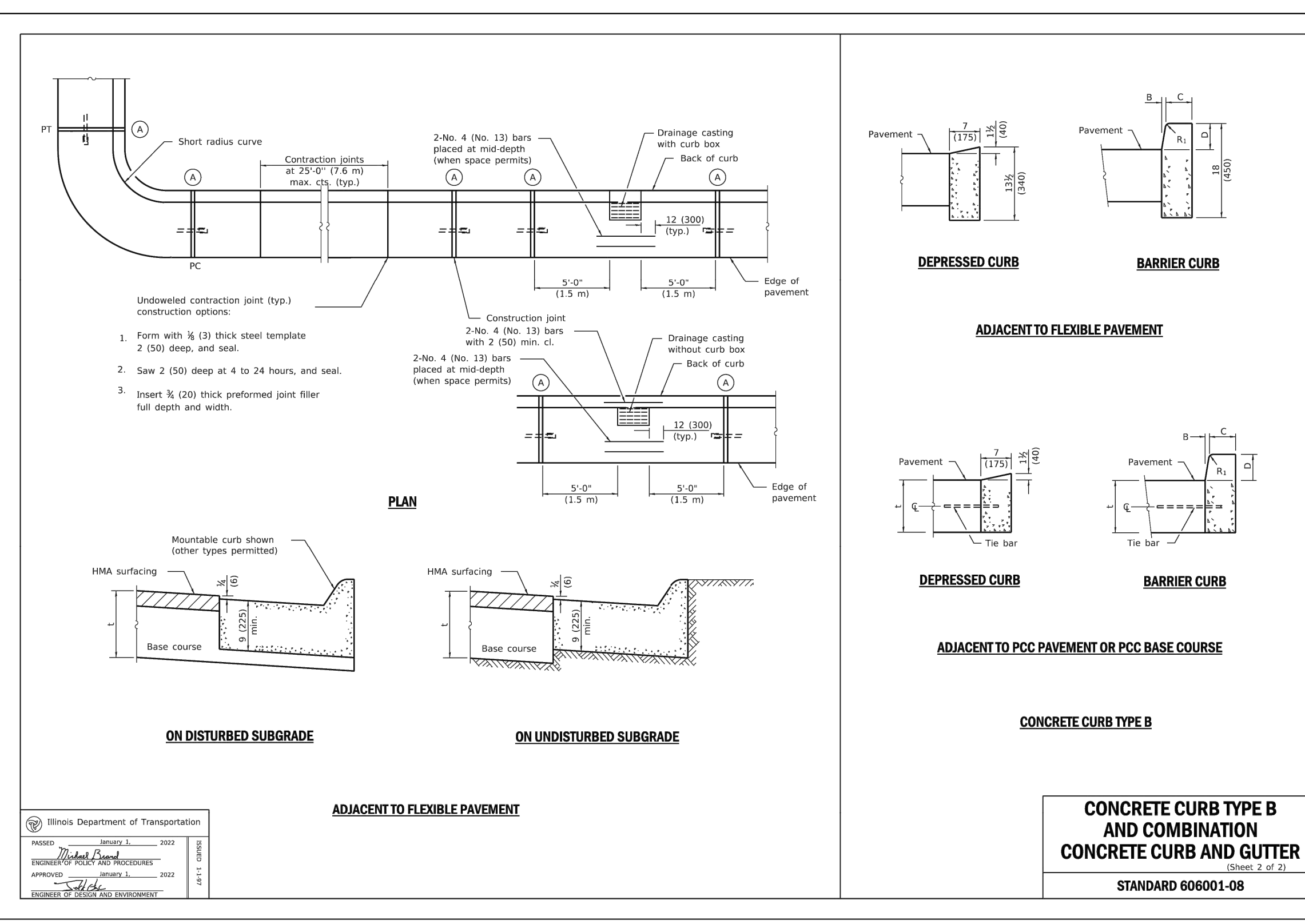
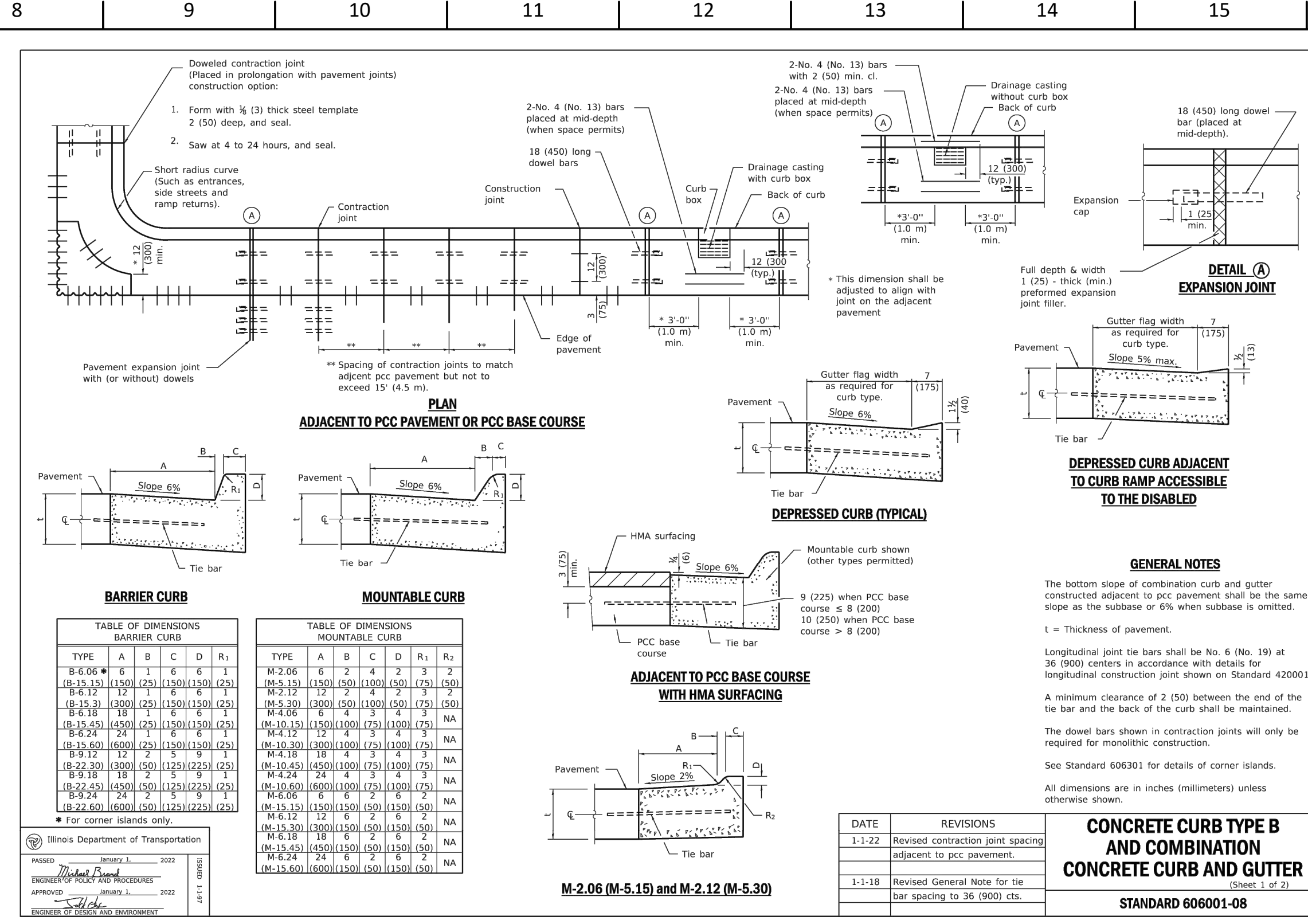
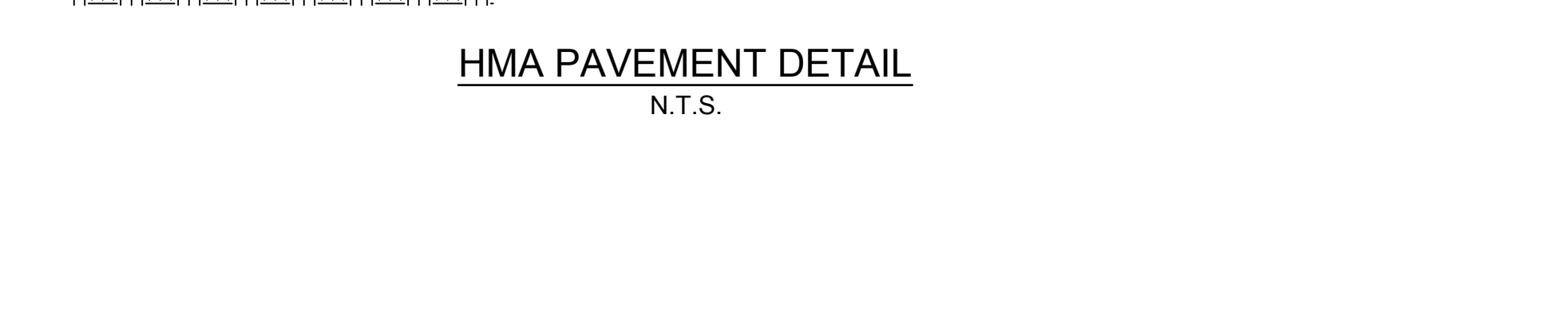
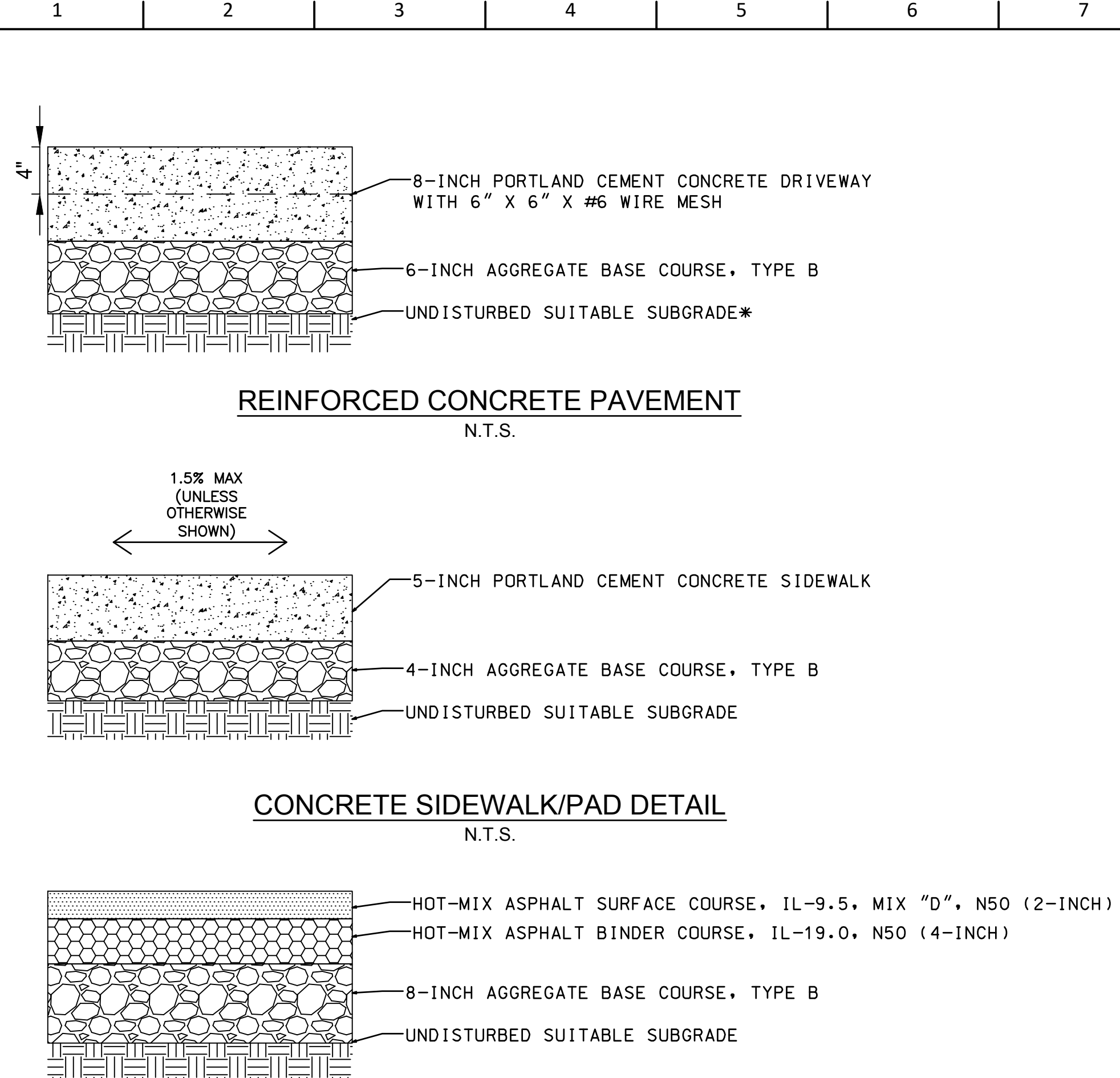
LEGEND

-  INLET PROTECTION
-  SEDIMENT CONTROL, SILT FENCE
-  CONSTRUCTION ENTRANCE
-  TEMPORARY DITCH CHECK
-  TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS 1; EROSION CONTROL BLANKET

EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL INSPECT ALL TEMPORARY EROSION CONTROL ELEMENTS IN PLACE WEEKLY AND AFTER ANY RAINSTORM EVENT AND REPAIR/REPLACE ALL EROSION CONTROL MATERIAL STRUCTURES DAMAGED AS NEEDED.
2. PERIMETER EROSION BARRIER (SILT FENCE) SHALL BE INSTALLED AND FUNCTIONING PROPERLY PRIOR TO ANY EARTHWORK ACTIVITIES AROUND THE AREA TO BE PROTECTED. THE BARRIER SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.
3. ALL STORM WATER STRUCTURES WITH OPEN LIDS AND INFLOW FLARED END SECTIONS SHALL RECEIVE INLET AND PIPE PROTECTION MEASURES. PROTECTION SHALL REMAIN UNTIL THE SITE IS PERMANENTLY STABILIZED.
4. ALL EXCAVATED MATERIAL SHALL BE STOCKPILED ON-SITE AND SHALL BE PROTECTED FROM EROSION BY THE INSTALLATION OF SILT FENCE AROUND THE PERIMETER OF THE STOCKPILE AT THE LOCATION DESIGNATED BY THE CONTRACTOR AND APPROVED BY THE OWNER. THE MAXIMUM SIDE SLOPES OF THE STOCKPILE SHALL NOT EXCEED A 2:1 SLOPE.
5. ALL EROSION AND SEDIMENT CONTROL ELEMENTS INCLUDING BUT NOT LIMITED TO SILT FENCE, INLET FILTERS AND PIPE PROTECTION, AND TEMPORARY SEEDING SHALL BE INSTALLED AS SPECIFIED IN THE LATEST EDITION OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND SHALL BE IN ACCORDANCE WITH NPDES GENERAL PERMIT NO. ILR10 AND THE "ILLINOIS URBAN MANUAL".
6. TEMPORARY EROSION CONTROL SEEDING SHALL BE USED IN ALL AREAS WHERE THE EARTH HAS BEEN EXPOSED AND WHEN THE CONTRACTOR DOES NOT HAVE WORK SCHEDULED WITHIN A PERIOD OF TWO WEEKS.
7. ALL STORM WATER THAT IS TO BE PUMPED SHALL BE FILTERED.
8. THE CONTRACTOR SHALL BE RESPONSIBLE TO PREVENT DUST FROM BEING GENERATED BY CONSTRUCTION OPERATIONS ON THE SITE BY WATERING ALL SURFACES WHERE VEGETATION HAS BEEN REMOVED. WATER SHALL BE APPLIED DAILY OR AT INTERVALS REQUIRED TO EFFECTIVELY CONTROL DUST.
9. AT LEAST ONE STABILIZED CONSTRUCTION ENTRANCE SHALL BE MAINTAINED FOR THIS SITE. REFER TO DETAIL FOR CROSS-SECTION INFORMATION. SUBGRADE SHALL BE COMPACTED IN ACCORDANCE WITH ARTICLES 301.01-301.04 OF THE CURRENT EDITION OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ALL STREETS ADJACENT TO THE SITE SHALL BE KEPT FREE OF DIRT, MUD, AND DEBRIS.
10. A HARDCOPY OF THE STORM WATER POLLUTION PREVENTION PLAN SHALL BE MAINTAINED ON-SITE AT ALL TIMES.
11. THE CONTRACTOR IS REQUIRED TO IDENTIFY A STORM WATER POLLUTION PREVENTION CONTROL PLAN MANAGER THAT WILL BE RESPONSIBLE FOR THE MAINTENANCE OF THE SWPPP.
12. LANDSCAPING PLANS SUPERSEDE THIS SWPPP PLAN FOR PROPOSED GROUND COVER CONDITIONS.

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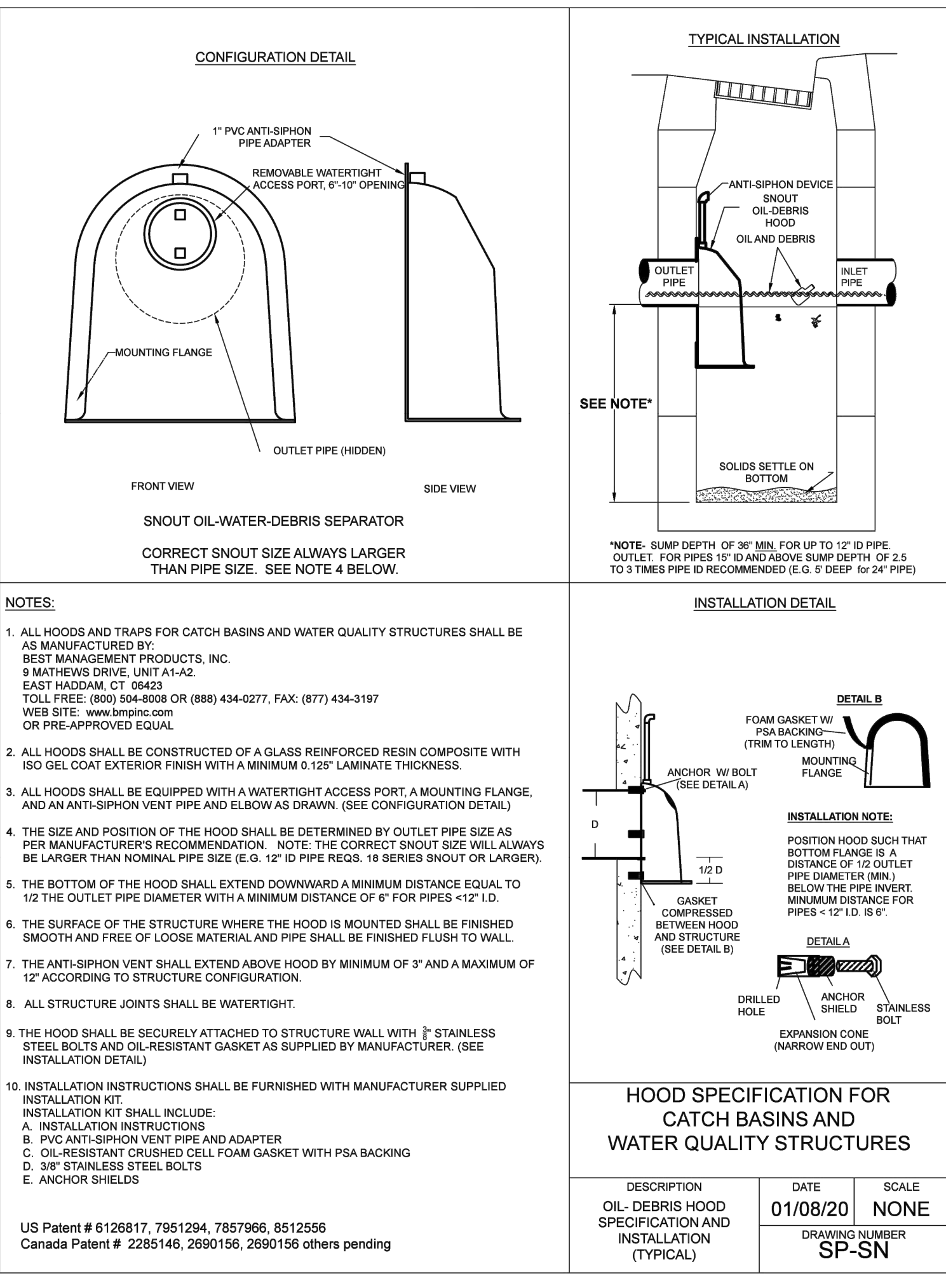
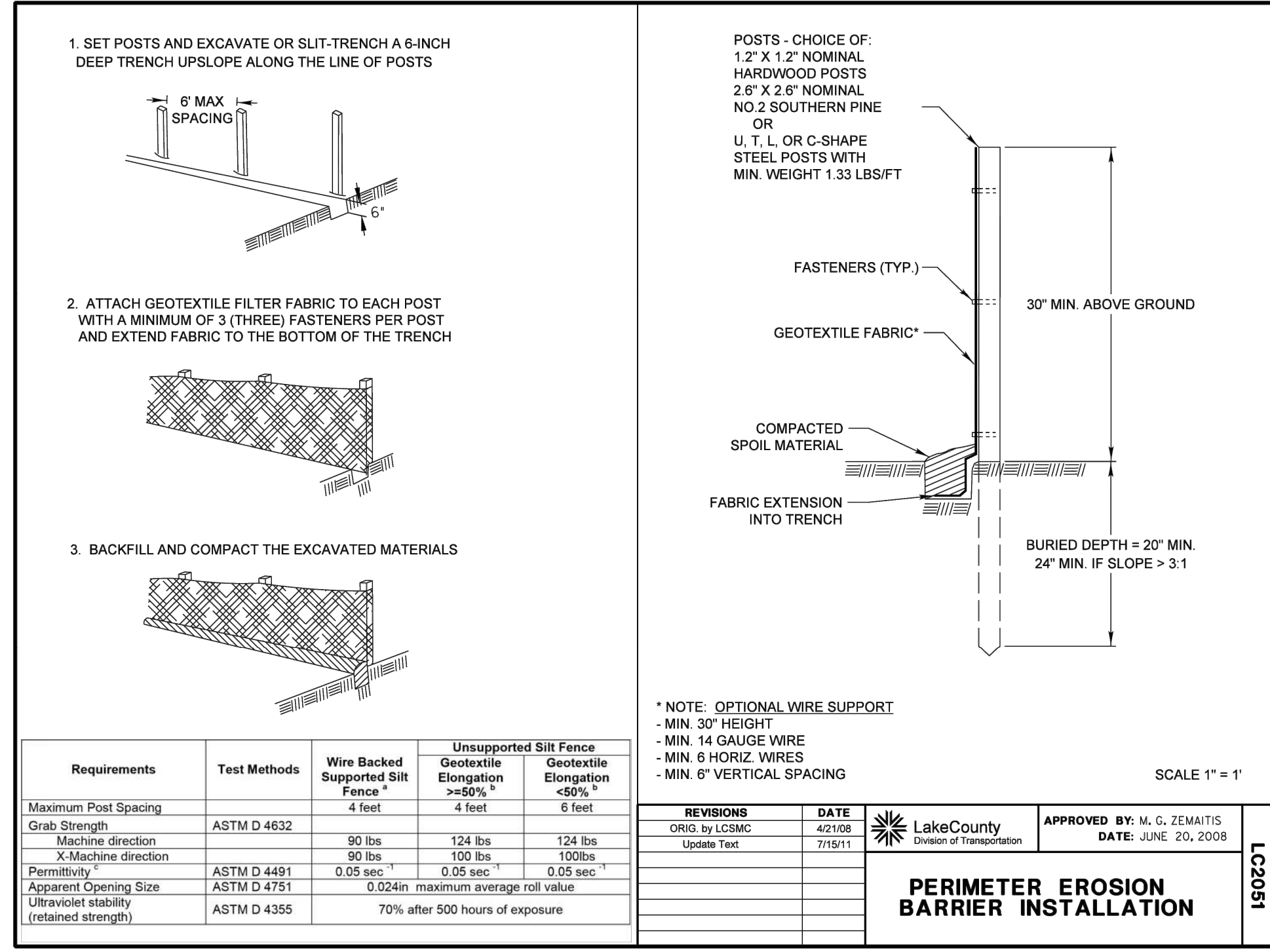
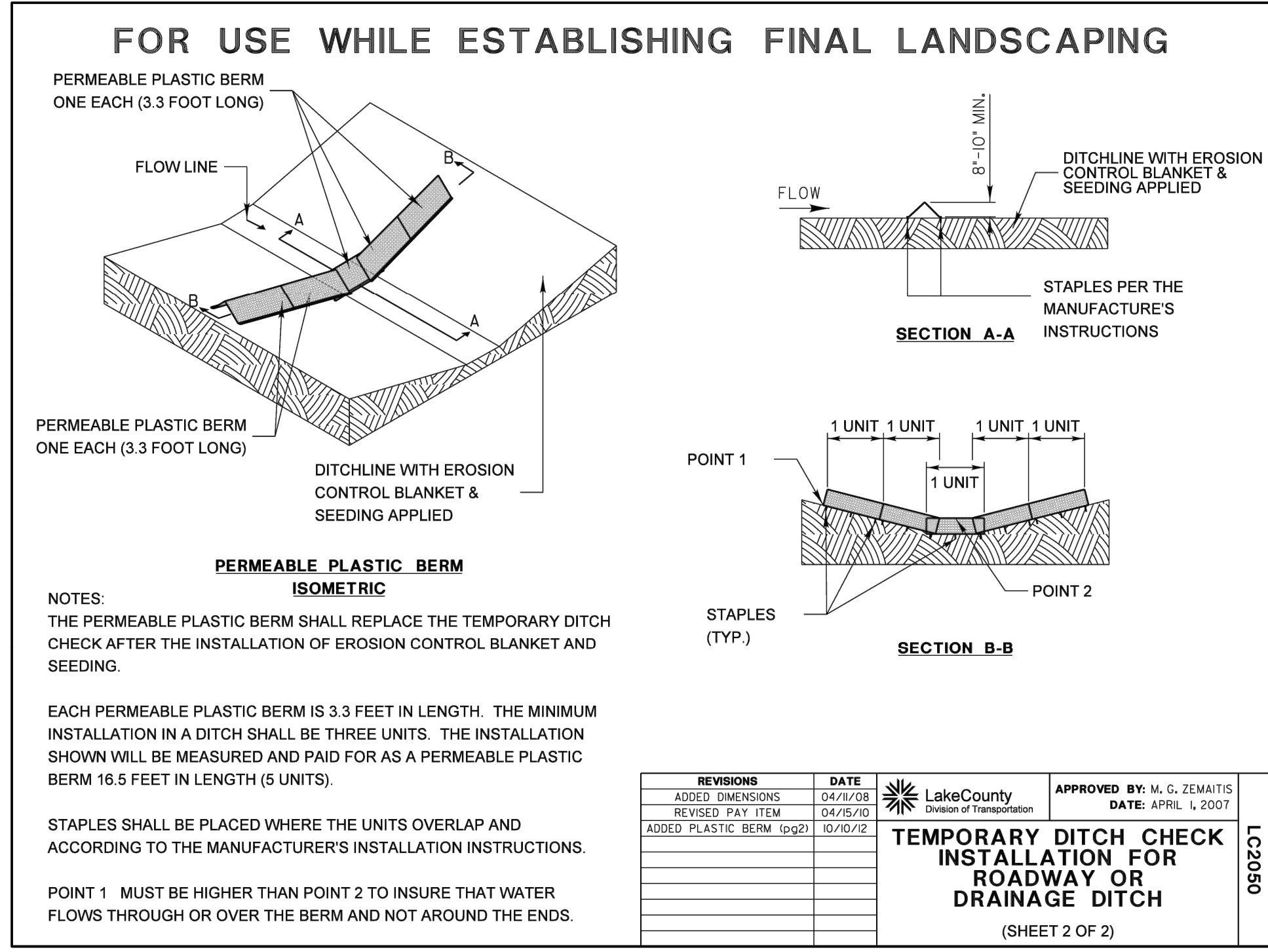
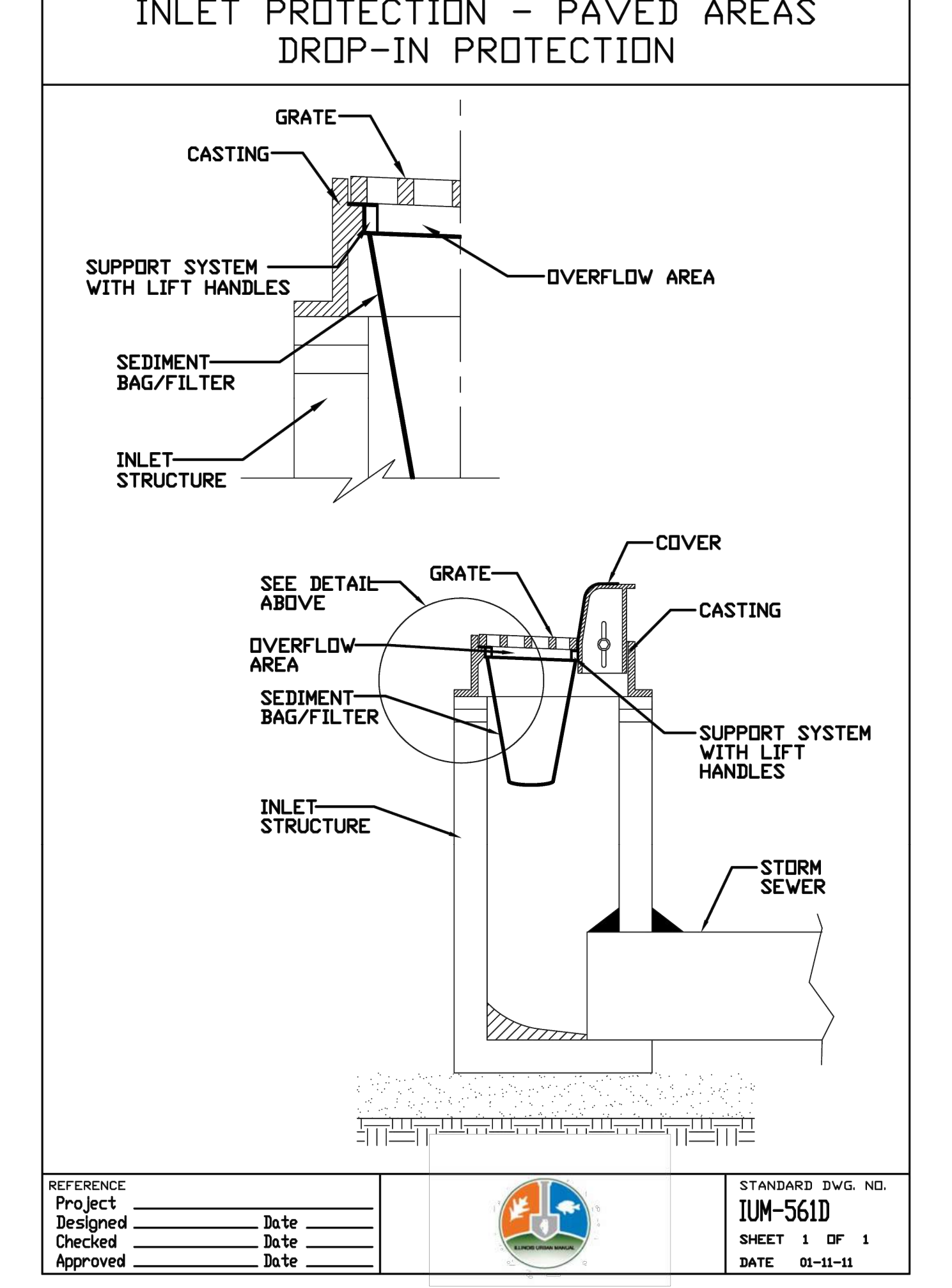
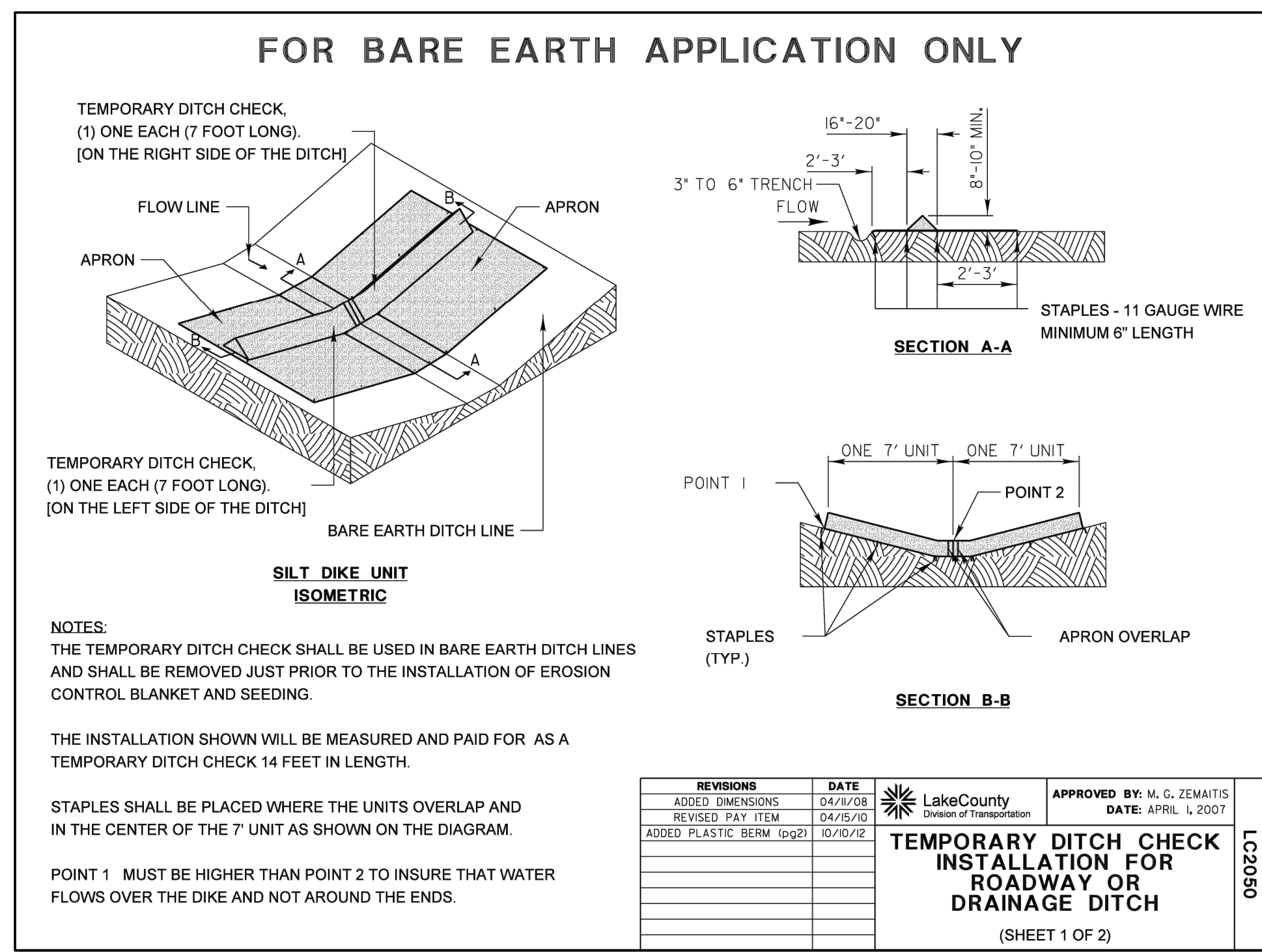
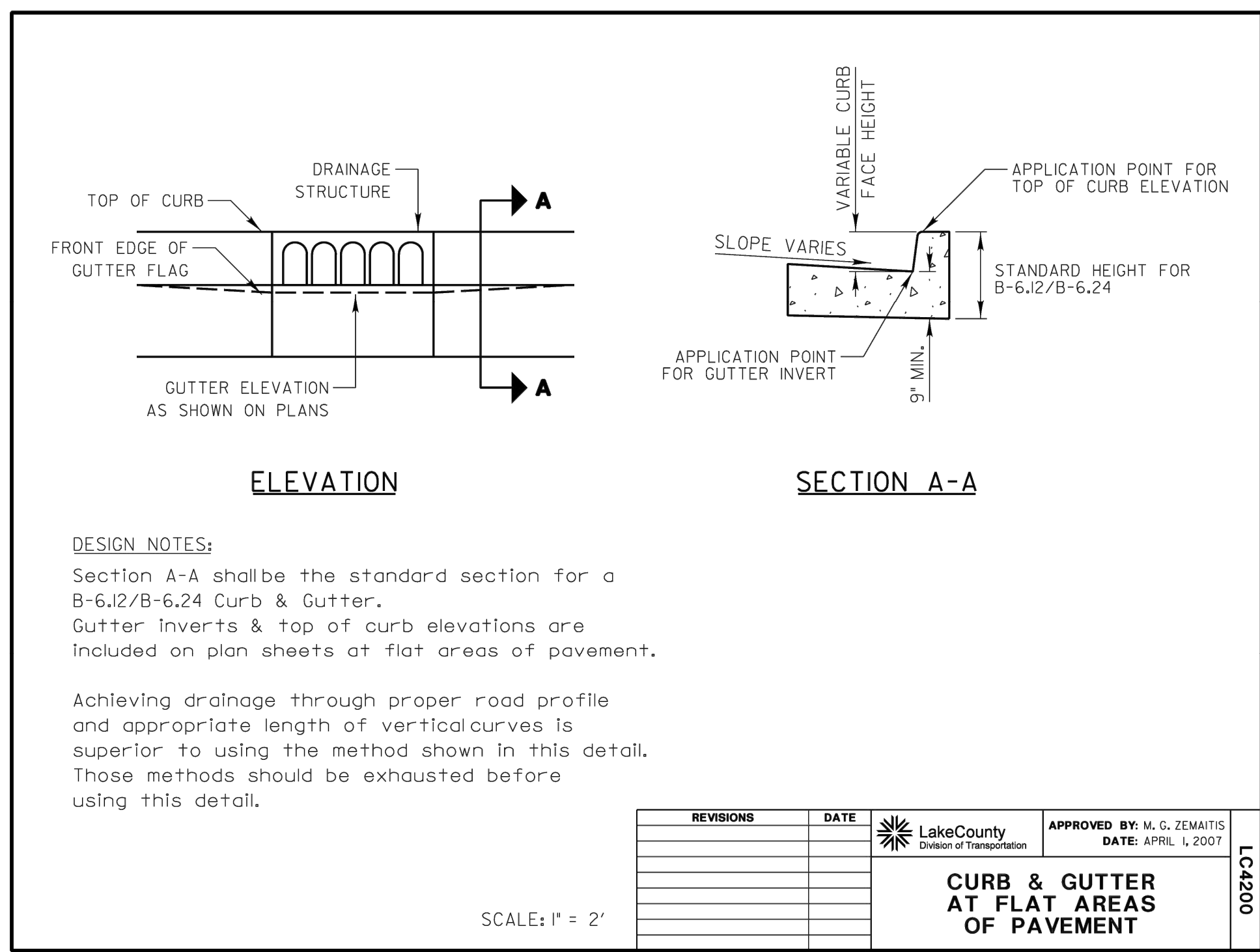
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CONSTRUCTION DETAILS - 1

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LAKE COUNTY FUEL ISLAND REPLACEMENT

LAKE COUNTY DIVISION OF TRANSPORTATION
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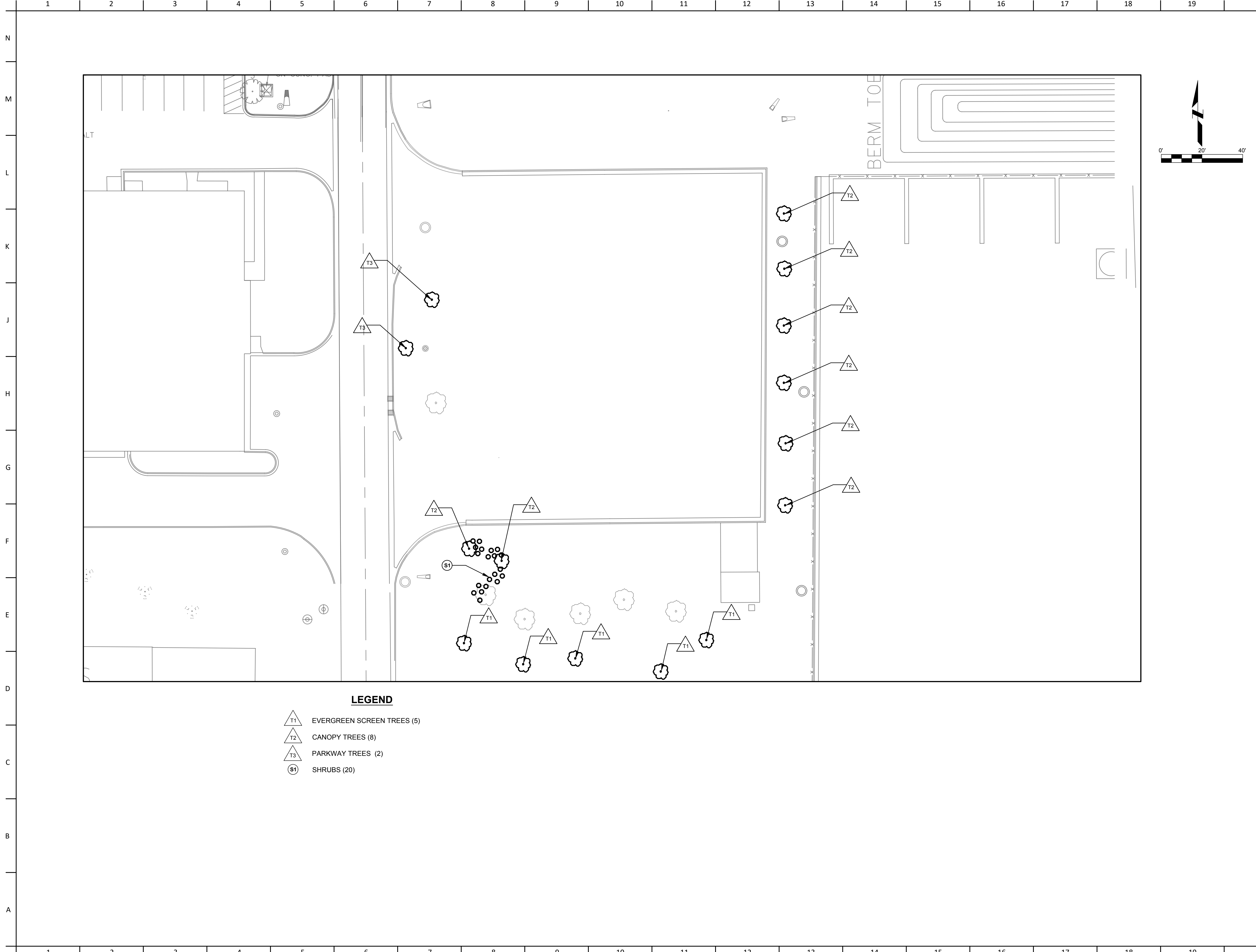
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CONSTRUCTION DETAILS - 3

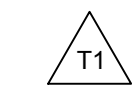
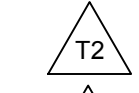

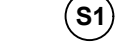
SHEET NO. **C-112**

JOB NO. 23-3764-02

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LEGEND

-  EVERGREEN SCREEN TREES (5)
-  CANOPY TREES (8)
-  PARKWAY TREES (2)
-  SHRUBS (20)



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LAKE COUNTY FUEL ISLAND REPLACEMENT
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LANDSCAPE PLAN

SHEET NO.
L-101

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