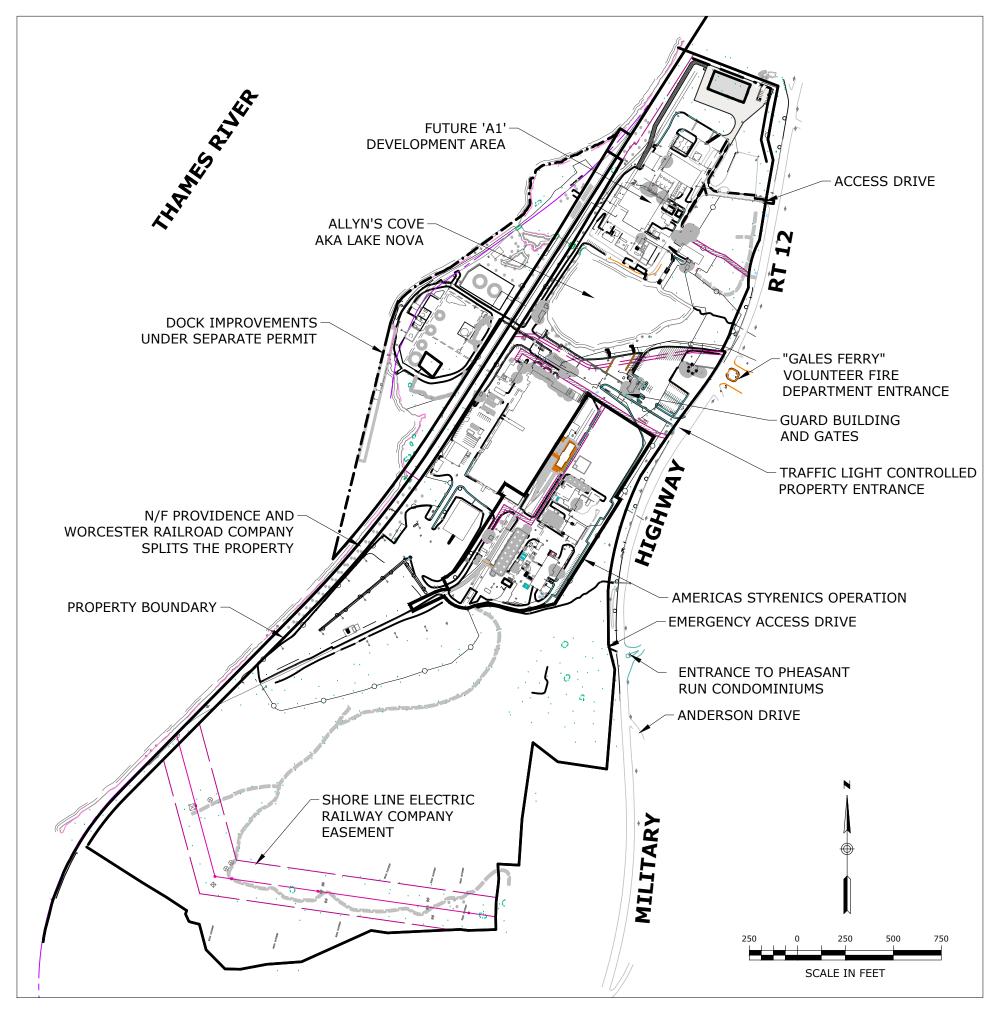
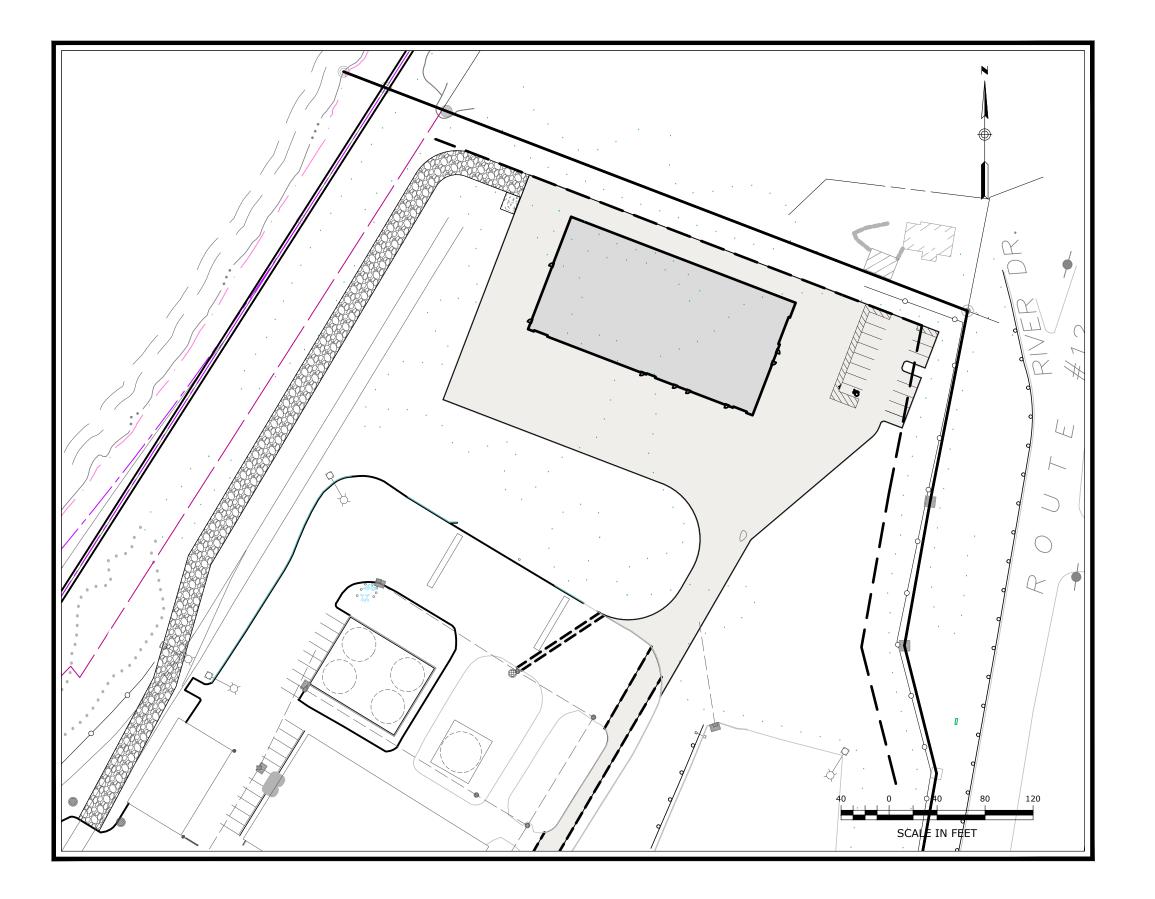
# **GALES FERRY INTERMODAL** STERLING FACILITY



PROPERTY MAP AND ADJACENT FEATURES

## 1761 ROUTE 12 GALES FERRY, CONNECTICUT 06335

## MARCH 07, 2023

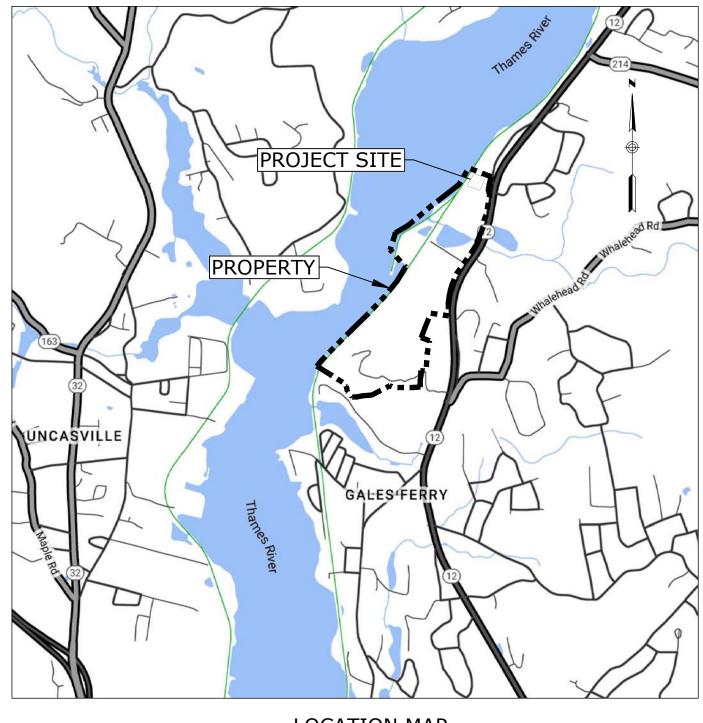


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## Property Owner / Applicant:

GALES FERRY INTERMODAL LLC 549 SOUTH STREET QUINCY, MA 02169

PZ PERMIT #	DATE OF APPROVAL	EXPIRATION DATE	-
PZC CHAIRMAN OR SEC	CRETARY	DATE	



LOCATION MAP SCALE: 1'=±2,000'



Prepared By:

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SHEET 1 OF 20

## SURVEY NOTES

- 1. THIS PLAN IS BASED ON MAP REFERENCE A
- 2. REFERENCE IS MADE TO THE TOWN OF LEDYARD, CT LAND EVIDENCE RECORDS VOLUME 621 AT PAGE 981 FOR THE SUBJECT PROPERTY.
- 3. THE SUBJECT PROPERTY IS LOCATED ENTIRELY WITHIN THE "I" INDUSTRIAL ZONE DISTRICT. 4. "NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP NEW LONDON COUNTY, CONNECTICUT ALL JURISDICTIONS PANEL 354, TOWN OF LEDYARD, MAP NUMBER 09011C0354G EFFECTIVE DATE JULY 18, 2011 FEDERAL EMERGENCY MANAGEMENT AGENCY INDICATES THE SUBJECT PROPERTY IS LOCATED IN ZONE AE (EL 12) AND ZONE X.
- 5. THE SUBJECT PROPERTY IS SHOWN ON THE TOWN OF LEDYARD, CT TAX ASSESSOR MAP 61 BLOCK 2120 AS LOT 1761 WHICH HAS ASSIGNED STREET ADDRESSES OF 1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335. 6. UNDERGROUND UTILITIES MUST BE FIELD VERIFIED PRIOR TO ANY EXCAVATION.
- 7. INLAND WETLANDS WERE DELINEATED IN THE FIELD BY JMM WETLAND CONSULTING SERVICES, LLC AND LOCATED BY LOUREIRO ENGINEERING ASSOCIATES, INC., GROTON, CONNECTICUT.

### SITE NOTES:

- 1. THE APPLICANT/OWNER IS GALES FERRY INTERMODAL LLC OF 549 SOUTH STREET, QUINCY, MA.
- 2. THE APPLICANT IS PROPOSING TO CONSTRUCT A 20,000 SF INDUSTRIAL BUILDING WHICH WILL BE UTILIZED BY THE APPLICANT, AND/OR ITS AFFILIATES, FOR STORAGE AND REPAIR OF MARINE EQUIPMENT AND APPURTENANCES WHICH ARE UTILIZED BY THE APPLICANT'S AFFILIATES IN CONJUNCTION WITH ITS MARINE CONTRACTING AND DREDGING OPERATIONS.
- 3. OTHER USES ON THE SITE CURRENTLY INCLUDE MANUFACTURING OF STYROFOAM PRODUCTS BY AMERICAS STYRENICS, A TENANT OF THE PROPERTY. 4. THE PURPOSE OF THESE PLANS IS FOR REVIEW BY THE LEDGE LIGHT HEALTH DISTRICT FOR COMPLIANCE WITH THE PUBLIC HEALTH CODE AND THE TOWN OF LEDYARD PLANNING &
- ZONING COMMISSION FOR A SPECIAL PERMIT APPLICATION FOR THE NEW INDUSTRIAL BUILDING. THESE PLANS ARE FOR PERMIT PURPOSES ONLY AND ARE NOT TO BE USED FOR CONTRACT DOCUMENTS. 5. FOR EXACT BUILDING DIMENSIONS, SEE BUILDING PLANS PROVIDED.
- 4. THE SUBJECT PROPERTY IS LOCATED WITHIN THE 'I' INDUSTRIAL ZONE. THE PARCEL DOES LIE WITHIN THE COASTAL AREA MANAGEMENT ZONE. A PORTION OF THE SITE IS WITHIN THE FEMA AE (EL 12) AND ZONE X WHILE THE PROPOSED BUILDING IS LOCATED OUTSIDE OF ANY FEMA FLOOD ZONES.
- 5. LOT COVERAGE CALCULATIONS: A. ALLOWED @ 70% = 70% X 6,882,480 SF = 4,817,736 SF
- B. PROVIDED: 2,091,741 (EXISTING) + 73,965 (PROPOSED) / 6,882,480 SF = 31.5 % 6. PARKING CALCULATIONS FOR NEW INDUSTRIAL BUILDING: A. REQUIRED:
  - 1 SPACE PER EMPLOYEE ON MAX SHIFT PLUS 1 SPACE PER FLEET VEHICLE 1 SPACE PER EMPLOYEE ON MAX SHIFT X 10 EMPLOYEES PLUS 1 SPACE PER FLEET VEHICLE X 7 FLEET VEHICLES = 17 SPACES REQUIRED
- B. PROPOSED: 17 SPACES OTHER ON-SITE BUILDINGS AND USES WERE NOT EVALUATED FOR PARKING NOTE: REOUIREMENTS.
- 7. THERE SHALL BE NO ACTIVITY WITHIN THE WETLAND OR 100 FOOT INLAND WETLAND UPLAND
- REVIEW AREA UNLESS OTHERWISE PERMITTED AND AS SHOWN ON THESE PLANS. 8. ANY MODIFICATION TO THE PLANS, INCLUDING ANY RECONFIGURATION OF THE PROPOSED
- FLOOR PLAN, IMPOSED BY ANOTHER FEDERAL, STATE OR LOCAL AGENCY SHALL REQUIRE ADDITIONAL REVIEW BY TOWN STAFF OR THE COMMISSION, WHICHEVER IS APPROPRIATE. 9. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS INCLUDING A CONNECTICUT D.O.T. ENCROACHMENT PERMIT FOR ALL WORK WITHIN THE D.O.T. RIGHT-OF-WAY PRIOR TO
- CONSTRUCTION. 10. THE CONTRACTOR SHALL OBTAIN, REVIEW AND ADHERE TO ALL REQUIREMENTS AND ANY
- CONDITIONS OF APPROVAL OF THE TOWN OF LEDYARD. 11. NO SIGNAGE IS PROPOSED WITH THIS APPLICATION. ANY FUTURE SIGNAGE SHALL MEET THE
- ZONING REGULATIONS REQUIREMENTS AND WILL REQUIRE THE NECESSARY PERMITS. 12. ANY EXTERIOR LIGHTING SHALL BE FULL CUTOFF AND SHALL BE SHIELDED TO DIRECT LIGHT AND GLARE AWAY FROM ALL ADJOINING PROPERTIES.
- 13. ALL PROPOSED PAVEMENT MARKINGS SHALL BE INSTALLED IN THE LOCATIONS SHOWN WITH DURABLE WHITE PAVEMENT MARKING PAINT AND IN ACCORDANCE WITH THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.). THE HANDICAP PARKING SYMBOLS SHALL BE WHITE WITH STANDARD HANDICAP BLUE BACKGROUNDS. ALL TRAFFIC CONTROL SIGNS SHALL CONFORM TO M.U.T.C.D. STANDARDS.
- 14. NEW SIDEWALKS, RAMPS AND DRIVEWAYS SHALL BE INSTALLED TO PROVIDE SMOOTH FRANSITION FOR PEDESTRIANS AND VEHICLES.
- 15. ALL CURB/HANDICAP RAMP DESIGNS SHALL CONFORM TO ANSI STANDARDS OR ADA ACT OF 1991, WHICHEVER IS MOST RESTRICTIVE. 16. ALL JOINTS BETWEEN EXISTING AND NEW PAVEMENT SHALL BE PROPERLY SAWCUT, TACK COATED AND SEALED AS APPLICABLE. ALL PROPOSED JOINTS SHALL BE FLUSH AND MATCH
- EXISTING GRADES. SAWCUT LINES MAY BE MODIFIED AS NECESSARY TO MEET CONSTRUCTION REOUIREMENTS UPON REVIEW AND APPROVAL BY THE DESIGN ENGINEER.
- 17. ALL EXISTING CURBING, PAVEMENT, ETC. DISTURBED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPLACED/RESTORED TO ORIGINAL CONDITION BY THE CONTRACTOR. 18. ALL TRAFFIC CONTROL SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST
- EDITION OF "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" STANDARDS. UTILITY NOTES:
- 1. UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LOCATIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 1-800-922-4455 PRIOR TO INITIATION OF THIS PROJECT. IF UTILITIES DIFFER FROM THOSE SHOWN ON THIS PLAN, ENGINEER SHALL BE NOTIFIED.
- 2. SCHEMATIC UNDERGROUND UTILITIES (ELECTRIC, TELEPHONE, COMMUNICATIONS, WATER) ARE SHOWN ON THESE PLANS FOR INFORMATIONAL PURPOSES ONLY. FINAL LOCATIONS WILL BE DETERMINED BY RESPECTIVE UTILITY AUTHORITIES AND INSTALLATION SHALL CONFORM TO UTILITY AUTHORITY POLICIES AND PRACTICES.
- 3. ALL NEW UTILITIES, INCLUDING CATV, WILL BE LOCATED UNDERGROUND.
- 4. ELECTRIC, TELEPHONE AND COMMUNICATION SERVICES SHALL CONFORM TO THE POLICIES AND PRACTICES OF THE APPROPRIATE UTILITY AUTHORITIES.
- 5. UTILITY SERVICE SIZES, MATERIALS, AND INSTALLATIONS SHALL BE APPROVED AND INSPECTED BY THE APPROPRIATE UTILITY COMPANY.
- 6. PROVIDE MINIMUM VERTICAL SEPARATION OF 12" FROM WATER MAIN TO DRAINAGE PIPING
- AND 18" TO SEWER PIPING. 7. LOCATION AND SIZE OF ALL BUILDING UTILITY CONNECTIONS SHALL BE COORDINATED WITH BUILDING ARCHITECTURAL PLANS AND APPROPRIATE UTILITY AUTHORITY.
- 8. WATER LINE INSTALLATION NOTES A. DOMESTIC AND FIRE PROTECTION WATER SERVICES SHALL BE SIZED BASED ON DEMAN
- AND COORDINATED WITH GROTON UTILITIES, THE PROVIDER THROUGH THE TOWN OF LEDYARD WPCA. B. SITE MUST BE AT SUBGRADE BEFORE WATER UTILITIES CAN BE INSTALLED.
- C. ALL WATER MAIN AND SERVICE INSTALLATIONS SHALL CONFORM TO THE CITY OF GROTON.
- DEPARTMENT OF UTILITIES, WATER MAIN AND SERVICE CONSTRUCTION SPECIFICATIONS, WITH MOST CURRENT REVISIONS. D. APPROVED BACKFLOW PREVENTERS ARE REQUIRED ON ALL FIRE SPRINKLER AND
- DOMESTIC WATER LINES. E. MINIMUM COVER OVER TOP OF WATER LINES SHALL BE 4.5' FROM FINISHED GRADE.
- F. NO BACKFILLING OF PIPE SHALL BE DONE UNTIL A DESIGNATED REPRESENTATIVE OF THE CITY OF GROTON, DEPARTMENT OF UTILITIES HAS MADE AN INSPECTION AND INSTALLATION HAS BEEN APPROVED.
- G. PIPE SEPARATIONS:
- a. 10' MINIMUM BETWEEN WATER AND SEWER b. 10' MINIMUM BETWEEN WATER AND BUILDINGS
- c. 5' MINIMUM BETWEEN WATER AND CATCH BASINS OR DRAIN PIPES H. WATER LINE GATE VALVES TO BE "OPEN LEFT, CLOSE RIGHT".
- I. NEW WATER LINES TO BE CHLORINATED, PRESSURE TESTED, WATER QUALITY SAMPLED, AND FLUSHED PER CITY OF GROTON, DEPARTMENT OF UTILITIES REQUIREMENTS PRIOR TO BEING PLACED INTO SERVICE.
- 9. MINIMUM 6' SEPARATION BETWEEN ELECTRIC AND ALL OTHER PIPES SUCH AS WATER, SEWER AND DRAINS.
- 10. ALL UTILITIES AND ON-SITE STORM DRAINAGE SHALL BE STRUCTURALLY SUPPORTED TO MINIMIZE DISRUPTION FROM SETTLEMENT OF UNDERLYING SOIL.

- MAP REFERENCES
- A. PROPERTY SURVEY, PROPERTY OF TRINSEO LLC, #1737 & #1761 MILITARY HIGHWAY (ROUTE 12), LEDYARD, GALES FERRY, CT, PREPARED FOR: JAY CASHMAN, INC., 549 SOUTH STREET, QUINCY, MA, SCALE: 1"=100', DATE: 5/10/2022, BY CHA.

NARRATIV

ASSOCIATED SITE IMPROVEMENTS.

EROSION AND SEDMIENTATION (E&S) CONTROL PLAN:

1. THIS EROSION AND SEDIMENTATION CONTROL (ESC) PLAN IS FOR THE CONSTRUCTION OF A

NEW 20,000 SF INDUSTRIAL BUILDING WITH ASSOCIATED LOADING DOCKS, ACCESS DRIVE,

PARKING, UTILITY IMPROVEMENTS, LANDSCAPING IMPROVEMENTS, STORMWATER

MANAGEMENT IMPROVEMENTS, A NEW SUBSURFACE SEWAGE DISPOSAL SYSTEM, AND OTHER

EXISTING ON-SITE INLAND WETLANDS. THE PORTION OF THE SITE WHERE THE PROPOSED

WORK IS LOCATED SLOPES TO THE NORTH, SOUTH AND WEST. THE UNDERLYING SOIL ON THE

THE INTENT OF THIS EROSION AND SEDIMENT CONTROL PLAN IS TO ESTABLISH STORMWATER

CONTROLS DURING CONSTRUCTION TO PREVENT THE DISCHARGE OF SEDIMENT LADEN

2. THE TOPOGRAPHY VARIES ACROSS THE SITE AND GENERALLY SLOPES FROM ROUTE 12 TO THE

3. A LARGE PORTION OF THE UPLAND SOILS WILL BE DISTURBED BY EARTHWORK ACTIVITIES AND

4. EROSION CONTROL MEASURES INTENDED TO MINIMIZE SOIL EROSION AND TO CONTROL

A. THE INSTALLATION OF SILT FENCE ALONG THE DOWN-GRADIENT LIMIT OF DISTURBANCE.

B. INSTALL SILTSACKS IN EXISTING CATCH BASINS IN THE PROJECT AREA. INSTALL SILT

C. THE IMMEDIATE STABILIZATION OF FINAL GRADED AREAS THROUGH THE PLACEMENT OF

D. DEVELOPMENT OF A CONSTRUCTION OPERATIONS PLAN IN CONSIDERATION OF BASIC

5. IT IS ANTICIPATED THAT SITE WORK CONSTRUCTION WILL BEGIN IN THE SPRING OF 2023 AND

1. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL MEET WITH THE TOWN

2. CONSTRUCTION ENTRANCE SHALL BE INSTALLED BEFORE CONSTRUCTION TRAFFIC INTO AND

3. THE CONTRACTOR SHALL INSTALL HAYBALES AND SILT FENCING AS SHOWN ON THE EROSION

4. THE CONTRACTOR SHALL SEED AND MULCH DISTURBED AREAS EXPECTED TO REMAIN

5. THE CONTRACTOR SHALL COMPLETE PERMANENT SEEDING BETWEEN APRIL 15TH THROUGH

JUNE 15TH AND AUGUST 15TH THROUGH SEPTEMBER 15TH. APPLY PERMANENT SOIL

STABILIZATION MEASURES TO ALL GRADED AREAS WITHIN 7 DAYS OF ESTABLISHING FINAL

GRADE AT A RATE OF 90 POUNDS PER 1,000 SQUARE FEET. RECOMMENDED SEED MIXTURE

6. UPON COMPLETION OF CONSTRUCTION, ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF

7. THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL DURING THE CONSTRUCTION

9. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH

10. THE CONSTRUCTION MANAGER SHALL BE RESPONSIBLE FOR IMPLEMENTING AND INSPECTING

EROSION AND SEDIMENT CONTROL MEASURES PER THIS PLAN AND SHALL INFORM ALL CONTRACTORS OF THE OBJECTIVES AND REOUIREMENTS OF THE PLAN. THE OWNER SHALL

NOTIFY THE PROPER TOWN AGENCY OF ANY TRANSFER OF THIS RESPONSIBILITY AND SHALL

ADVISE THE TOWN REGARDING THE NEED FOR IMPLEMENTING ADDITIONAL CONTROL MEASURES OR MAINTAINING EXISTING MEASURES AS DEEMED NECESSARY DURING

CONSTRUCTION. WEEKLY INSPECTIONS SHALL BE CONDUCTED AND/OR WITHIN 24 HOURS OF

THE END OF A STORM HAVING A RAINFALL AMOUNT OF 1/2 INCH OR GREATER. MONTHLY WRITTEN REPORTS SHALL BE PREPARED INFORMING THE TOWN OF LEDYARD OBSERVATIONS,

THE INTENT OF THE FOLLOWING CONSTRUCTION SEQUENCE IS TO ESTABLISH STORMWATER

CONTROLS DURING EARTHWORK ACTIVITIES TO PREVENT THE DISCHARGE OF SEDIMENT LADEN

THE ESC PLAN SHOWS THE PROPOSED GRADING WHICH DEPICTS THE APPROXIMATE EXCAVATION LIMITS AND RESULTING DRAINAGE PATTERNS UPON WHICH THE ESC MEASURES ARE PREDICATED.

THE CONTRACTOR SHALL DEVELOP A CONSTRUCTION EXCAVATION PLAN BASED ON THEIR

3. THE PROJECT LAND SURVEYOR SHALL STAKE OUT PROPOSED CLEARING LIMITS PRIOR TO

4. INSTALL TEMPORARY CONSTRUCTION ENTRANCE, SEDIMENT FENCES AND/OR HAY BALE

5. REMOVE ALL TREES, BRUSH AND STUMPS WITHIN CLEARING LIMITS AS NECESSARY. PROTECT

WETLANDS AT ALL TIMES. THERE SHALL BE NO BURIAL OF CONSTRUCTION DEBRIS, STUMPS,

A. NO ROCK CRUSHING AND/OR BLASTING IS PROPOSED. IF BLASTING IS REQUIRED FOR

B. FILL WILL BE PLACED AND COMPACTED IN 8 INCH LIFTS AND SHALL BE FREE OF BRUSH, RUBBISH, LOGS, BUILDING DEBRIS, OR ANY OTHER OBJECTIONABLE MATERIAL

C. MOISTEN SOIL SURFACE PERIODICALLY WITH WATER TO MINIMIZE DUST.

7. THE PROPOSED BUILDING AND SEPTIC SYSTEM SHALL BE STAKED OUT BY A LICENSED LAND

8. BEGIN CONSTRUCTION OF BUILDINGS, SEPTIC SYSTEM, AND INSTALL UTILITIES. ADD EROSION

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTING THE BUILDING AND SEPTIC SYSTEM IN THE EXACT LOCATION SHOWN AND SHALL BE CONSTRUCTED TO THE EXACT

10. INSTALL STORMWATER MANAGEMENT IMPROVEMENTS AND DRAINAGE STRUCTURES STARTING

11. ALL DISTURBED AREAS NOT COVERED BY BUILDINGS, PARKING, SIDEWALKS, GRAVEL

DIMENSIONS SHOWN ON THE LATEST SITE AND ARCHITECTURAL PLANS IN ACCORDANCE WITH

ROCK REMOVAL, A PRE-BLAST SURVEY SHALL BE PERFORMED. IF BLASTING AND ROCK

CRUSHING ARE REQUIRED THEN APPROVAL OF THE PLANNING AND ZONING COMMISSION

2. ENSURE ALL LAND USE PERMITS HAVE BEEN SECURED. OBTAIN ALL NECESSARY PERMITS.

CONTACT "CALL BEFORE YOU DIG" TO MARK OUT ALL UTILITY LOCATIONS PRIOR TO ANY

RUNOFF FROM ENTERING STORM DRAIN SYSTEMS, WETLANDS AND WATERCOURSES.

BARRIERS AS SHOWN ON THE EROSION & SEDIMENT CONTROL PLAN.

THE LATEST EDITION OF THE STATE OF CONNECTICUT SOIL EROSION AND SEDIMENT CONTROL HANDBOOK. ALL MEASURES SHALL BE MAINTAINED AND UPGRADED TO ACHIEVE PROPER

PROCESS. THE CONSTRUCTION MANAGER SHALL INSPECT THE SITE TO ASSURE DUST IS

ADEOUATELY CONTROLLED. IF THE CONSTRUCTION MANAGER DETERMINES DUST CONTROL MEASURES ARE NOT ADEQUATE, THE CONTRACTOR SHALL BE REQUIRED TO INCREASE THESE

SEDIMENT AND DEBRIS. ALL REMOVED SEDIMENTS AND DEBRIS SHALL BE DISPOSED OF.

FUTURA 2000 BY THE CHAS C. HART CO. CONTAINING THE FOLLOWING VARIETIES OF

MAINTAINED/REPAIRED UNTIL FINAL STABILIZATION OF ALL DISTURBED AREAS.

PERENNIAL RYEGRASSES: FIESTA II, BLAZER II, DASHER II AND EXPRESS

& SEDIMENT CONTROL PLAN PRIOR TO INITIATING CONSTRUCTION ACTIVITIES AND SHALL BE

REPRESENTATIVE TO DISCUSS ESC REQUIREMENTS AND STORMWATER MANAGEMENT

SITE MOSTLY CONSISTS OF, FINE LOAMY SAND, HYDROLOGIC SOIL GROUP B.

RUNOFF FROM ENTERING THE EXISTING INLAND WETLANDS.

SACKS IN NEW CATCH BASINS DURING CONSTRUCTION.

CONSTRUCTION SEQUENCING OUTLINED HEREIN.

UNSTABILIZED FOR A PERIOD OF MORE THAN 30 DAYS.

MEASURES AS DIRECTED BY THE CONSTRUCTION MANAGER.

8. THE CONTRACTOR SHALL MAINTAIN EROSION CONTROLS.

SEDIMENT CONTROL DURING CONSTRUCTION.

MAINTENANCE, AND CORRECTIVE ACTIONS.

BRUSH OR UNSUITABLE MATERIAL ON SITE.

SURVEYOR PRIOR TO CONSTRUCTION.

CONTROL DEVICES AS NEEDED.

THE APPROVED PLANS

6. EXCAVATE AND/OR FILL WORK SITE TO SUBGRADE LEVEL.

CONSTRUCTION SEQUENCE

OPERATIONAL REQUIREMENTS.

CONSTRUCTION

CONSTRUCTION ACTIVITIES

WILL BE COMPLETED IN THE FALL OF 2023.

GENERAL E&S REQUIREMENTS

OUT OF THE SITE BEGINS.

PROCEDURES

RIPRAP, TOPSOIL, SEED, MULCH AND EROSION CONTROL NETTING.

SEDIMENTATION DURING CONSTRUCTION INCLUDE:

INSTALL HAYBALES AS SHOWN ON PLANS.

- A. PLACE MINIMUM 4 INCHES OF TOPSOIL IN ALL AREAS. B. APPLY RECOMMENDED SEED MIXTURE AT RECOMMENDED RATE.

SURFACES, ETC., SHALL BE GRADED AND STABILIZED AS FOLLOWS:

FROM THE MOST DOWNGRADIENT IMPROVEMENTS.

- C. APPLY STRAW OR HAY MULCH ON ALL SEEDED AREAS. ALL GRADED AREAS WITH SLOPES
- GRADED AT 3H:1V OR STEEPER SHALL BE STABILIZED WITH EROSION CONTROL BLANKETS. 11. PLACE AND COMPACT BASE MATERIAL TO FINAL GRADE. INSTALL PAVEMENT, CURB, SIDEWALKS, GRAVEL, STEPS, ETC.
- 12. INSTALL FINAL PAVEMENT COURSE.
- 13. FINAL GRADE AND PLACE TOPSOIL SEED AND MULCH. 14. WHEN ALL GRADED AREAS ARE PERMANENTLY STABILIZED, REMOVE ALL EROSION AND
- SEDIMENT CONTROLS. REMOVE TRAPPED SEDIMENT. MAINTENANCE OF EROSION CONTROL DEVICES:
- 1. HAYBALE BARRIERS/GEOTEXTILE SILT FENCES:
- A. INSPECT HAY BALE BARRIERS/GEOTEXTILE SILT FENCE AT LEAST ONCE A WEEK AND WITHIN 24 HOURS AFTER THE END OF A STORM WITH A RAINFALL AMOUNT OF 1/2" OR GREATER TO DETERMINE MAINTENANCE NEEDS.
- B. REMOVE SEDIMENT DEPOSITS OR INSTALL A SECONDARY BARRIER/FENCE WHEN SEDIMENT DEPOSITS REACH APPROXIMATELY ONE HALF HEIGHT OF THE BARRIER/FENCE. C. REPLACE OR REPAIR THE BARRIER/FENCE WITHIN 24 HOURS OF OBSERVED FAILURE. IF REPETITIVE
- FAILURE OCCURS, CONSULT 2002 GUIDELINES FOR TROUBLESHOOTING FAILURES.
- D. MAINTAIN THE HAY BALE BARRIER/SILT FENCE UNTIL THE CONTRIBUTING AREA IS STABILIZED E. AFTER UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE STAKES FROM HAY BALES; PULL UP FENCE SUPPORT POSTS AND CUT OFF GEOTEXTILE AT GROUND. UNLESS OTHERWISE REOUIRED, HAY BALES MAY BE LEFT IN PLACE OR BROKEN UP FOR GROUND COVER. IF ACCUMULATED SEDIMENT EXCEEDS 6 INCHES, RE-GRADE OR REMOVE SEDIMENT. STABILIZE ANY DISTURBED SOILS.
- 2. CONSTRUCTION ENTRANCES AND ROADWAYS:
- A. MAINTAIN THE ENTRANCE IN A CONDITION WHICH WILL PREVENT TRACKING AND WASHING OF SEDIMENTS ONTO PAVED SURFACES. B. PROVIDE PERIODIC TOP DRESSING AND ADDITIONAL STONE OR LENGTH AS NECESSARY.
- C. IMMEDIATELY REMOVE ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PAVED SURFACES. ROADS ADJACENT TO THE CONSTRUCTION SITE SHALL BE LEFT CLEAN EVERY DAY.

- STORMWATER MANAGEMENT SYSTEM MAINTENANCE PLAN:
- A. THE ACCESS DRIVE AND PARKING AREAS SHOULD BE SWEPT AT LEAST ONCE PER YEAR, PREFERABLY AFTER THE END OF THE WINTER SANDING SEASON.
- 2. CATCH BASINS AND MANHOLES
- A. A CONNECTICUT-LICENSED HAULER SHALL PUMP THE SUMPS OF ON-SITE CATO BASINS AND MANHOLES, AND SHALL DISPOSE OF THE PUMPING LEGALLY. RC SAND MAY BE REUSED FOR WINTER SANDING, BUT MAY NOT BE STORED ON-SI AS PART OF THE HAULING CONTRACT. THE HAULER SHALL NOTIFY THE PROPE OWNER IN WRITING WHERE THE MATERIAL IS BEING DISPOSED.
- B. EACH CATCH BASIN SHALL BE INSPECTED EVERY FOUR MONTHS, WITH O INSPECTION OCCURRING DURING THE MONTH OF APRIL. ANY DEBRIS OCCURRI WITHIN ONE FOOT FROM THE BOTTOM OF EACH SUMP SHALL BE REMOVED VACUUM "VACTOR" TYPE OF MAINTENANCE EQUIPMENT.
- 3. STORMTECH UNDERGROUND INFILTRATION/DETENTION SYSTEM A. THE ISOLATOR ROWS SHALL BE CLEANED AT THE END OF CONSTRUCTION ONCE CONTRIBUTING AREAS ARE FULLY STABILIZED. FOR THE FIRST YEAR OF OPERAT FOLLOWING CONSTRUCTION, THE CHAMBER ROWS SHALL BE INSPECTED ON EVERY 6 MONTHS.
- B. AFTER THE FIRST YEAR OF OPERATION, THE CHAMBERS SHALL BE INSPECTED MINIMUM OF ONCE PER YEAR. IF UPON VISUAL INSPECTION IT IS FOUND TH SEDIMENT HAS ACCUMULATED. A STADIA ROD SHOULD BE INSERTED TO DETERM THE DEPTH OF THE SEDIMENT. WHEN THE AVERAGE DEPTH OF ACCUMULAT EXCEEDS 3", A CLEAN-OUT SHOULD BE PERFORMED AND PROPERLY DISPOS
- OFF-SITE. CLEAN-OUT SHOULD BE ACCOMPLISHED USING A JETVAC PROCESS. C. A DETAILED MAINTENANCE LOGBOOK SHALL BE KEPT ON-SITE FOR THE UNITS THE PROPERTY OWNER/MANAGER. INFORMATION IS TO INCLUDE, BUT NOT LIMITED TO, THE DATE OF INSPECTION, RECORD OF SEDIMENT DEPTH, GENEI OBSERVATIONS, AND DATE OF CLEANING PERFORMED. 4. HYDRODYNAMIC SEPARATOR
- A. THE SEPARATOR SHALL BE CLEANED PERIODICALLY DURING CONSTRUCTION, AN AT THE END OF CONSTRUCTION ONCE THE LANDSCAPED AREAS ARE FU STABILIZED
- B. FOR THE FIRST YEAR OF OPERATION FOLLOWING CONSTRUCTION, THE SEPARA SHALL BE INSPECTED ONCE EVERY 4 MONTHS FOR THE MONTHS OF NOVEMB MARCH, AND JULY. A GRADUATED MEASURING DEVICE SHALL BE INSERTED I MANHOLE AND MEASUREMENTS OF ANY ACCUMULATIONS WILL BE RECORD CLEANING WILL OCCUR WHEN DEBRIS HAS ACCUMULATED TO A DEPTH OF 20" GREATER.
- C. AFTER THE FIRST YEAR OF OPERATION, THE SEPARATOR SHALL BE INSPECTED MINIMUM OF TWICE PER YEAR IN THE SAME MANNER AS DESCRIBED ABOVE. WH THE DEPTH OF ACCUMULATION REACHES 20", A CLEAN-OUT SHOULD BE PERFORM AND SEDIMENT PROPERLY DISPOSED OF OFF-SITE. DEBRIS WILL BE REMOVED VACUUM "VACTOR" TYPE OF EQUIPMENT. THE MANHOLE SHOULD THEN BE PRESSU WASHED TO REMOVE REMAINING SEDIMENT AND DEBRIS AND THE WATER SHOU THEN BE VACUUMED OUT. ONCE CLEANING IS COMPLETE THE MANHOLE SHOULD REFILLED WITH WATER.
- D. A DETAILED MAINTENANCE LOGBOOK SHALL BE KEPT FOR THE UNIT. INFORMATION IS TO INCLUDE THE DATE OF INSPECTION, RECORD OF GRIT DEPTH, CONDITION OF TANK, OBSERVATION OF ANY FLOATABLE DEBRIS, AND DATE OF CLEANING PERFORMED.

PZ PERMIT # \_\_ DATE OF APPROVAL

PZC CHAIRMAN OR SECRETARY

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ITEM	REQUIRED	PROVIDED
LOT AREA	200,000 SQ. FT. (4.59 AC.)	6,882,480 SQ. FT. (158 AC.)
FRONTAGE	200 FT.	3700 ± FT.
LOT WIDTH	200 FT	> 200 FT.
FRONT SETBACK	35 FT.	141 ± FT.
SIDE SETBACK	25 FT	45 ± FT.
REAR SETBACK	25 FT.	220 ± FT.
LOT COVERAGE (%) (SEE SITE NOTE 5)	70% (4,817,736 SQ. FT.)	31.5 % ( 2,165,706 SQ. FT.)
BUILDING HEIGHT	65 FT.	32 ± FT. (SEE ARCHITECTURAL PLANS)
PARKING (# OF SPACES) (SEE SITE NOTE 6)	17 SPACES	17 SPACES
WATER SUPPLY	r	IUNICIPAL
SANITARY DISPOSAL	0	NSITE SSDS

L	E	G	E	Ν	D

--5-- EXISTING CONTOUR

x6.1 NEW SPOT GRADE

— W — MUNICIPAL WATER

SEDIMENT FENCE

(13)

------ BUILDING SETBACK LINE

UTILITY POLE

--5- EXISTING INDEX CONTOUR

AC ACRES BIT CONC BITUMINOUS CONCRETE TOP OF CURB CONNECTICUT HIGHWAY CHD DEPARTMENT MONUMENT C.O. CL&P LLR INV M/L

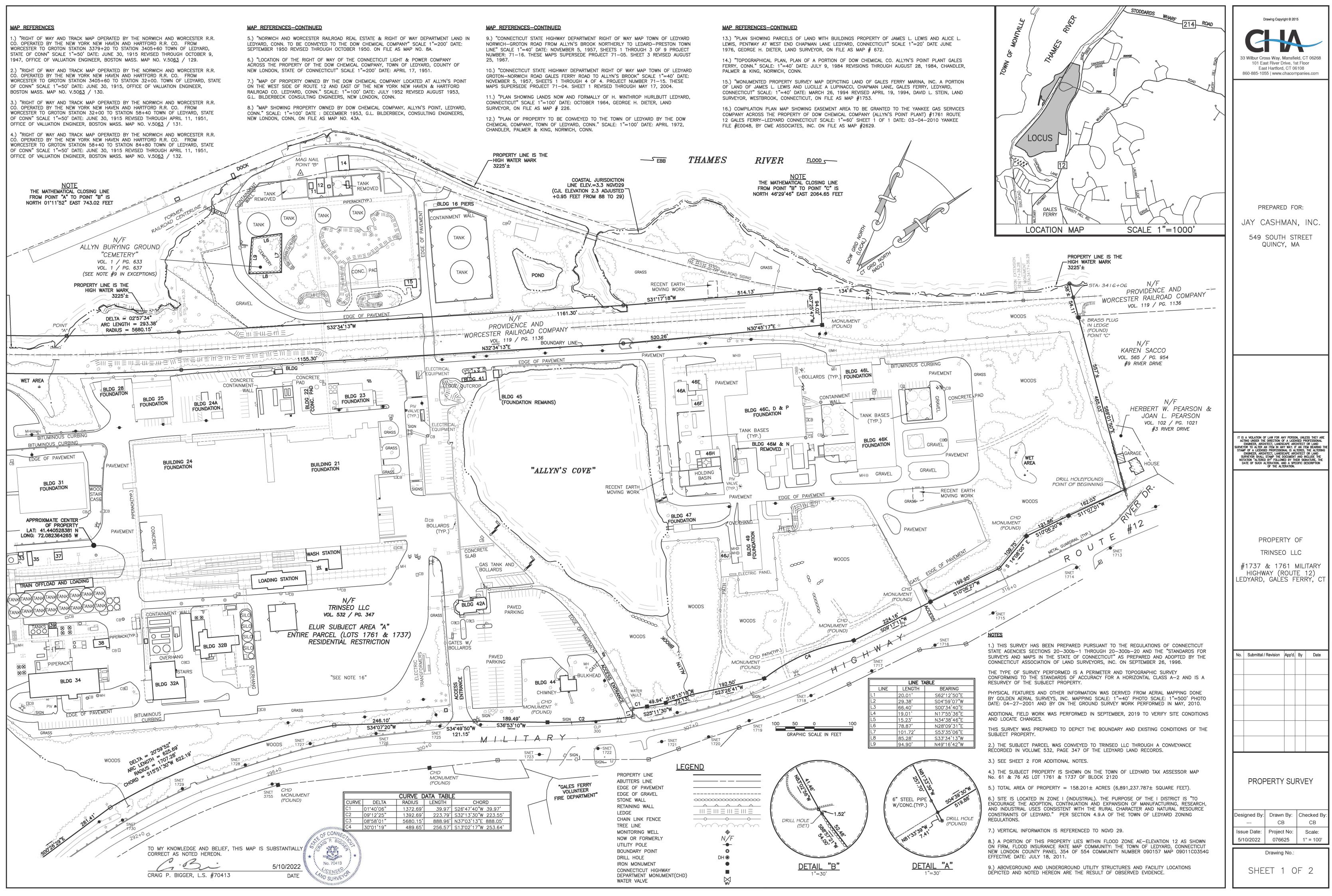
BOTTOM OF CURB CLEAN OUT CONNECTICUT LIGHT & POWER LEDYARD LAND RECORDS FINISHED FLOOR INVERT MORE OR LESS MINIMUM NOW OR FORMERLY SQUARE FEET

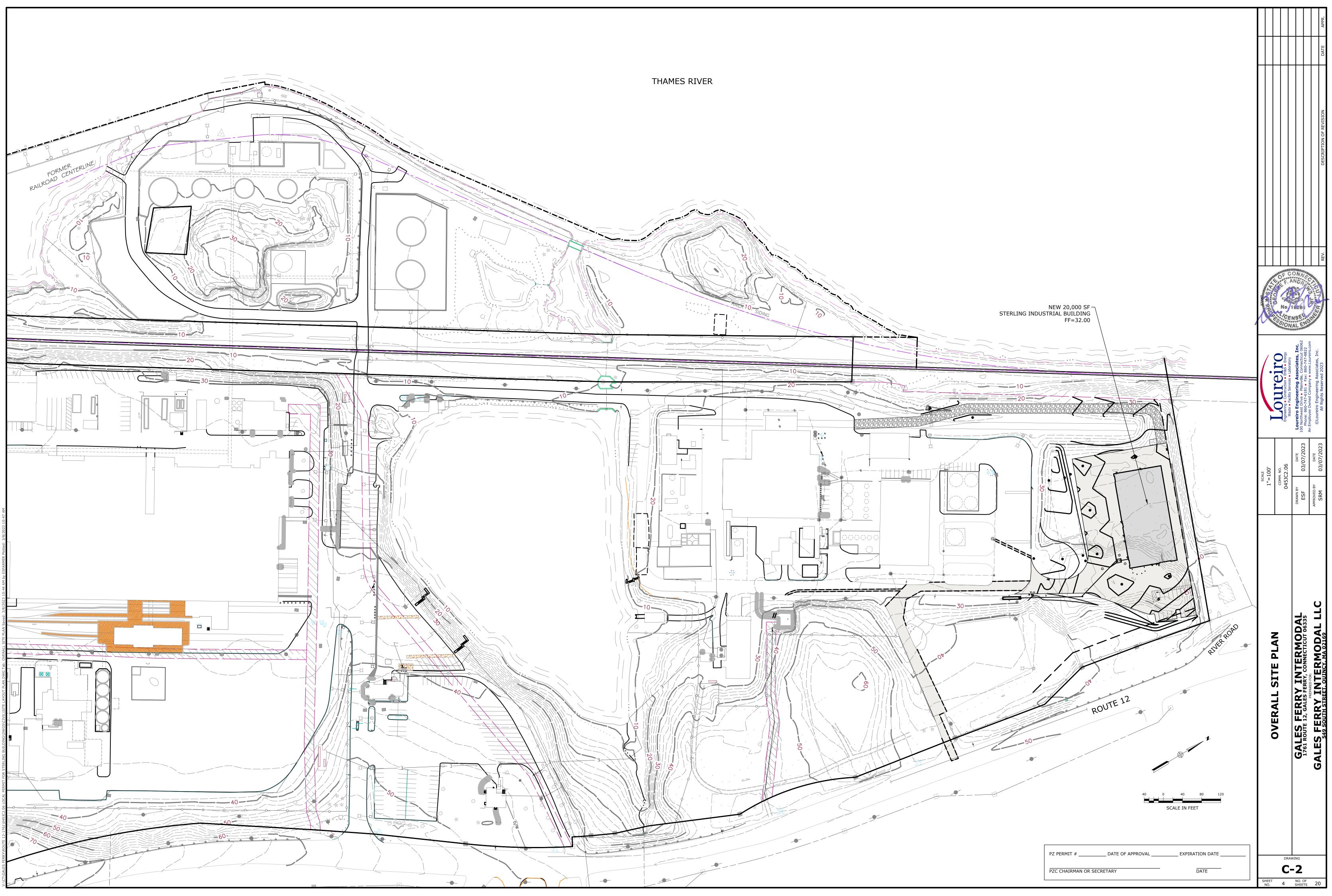
MIN N/F TYP TYPICAL

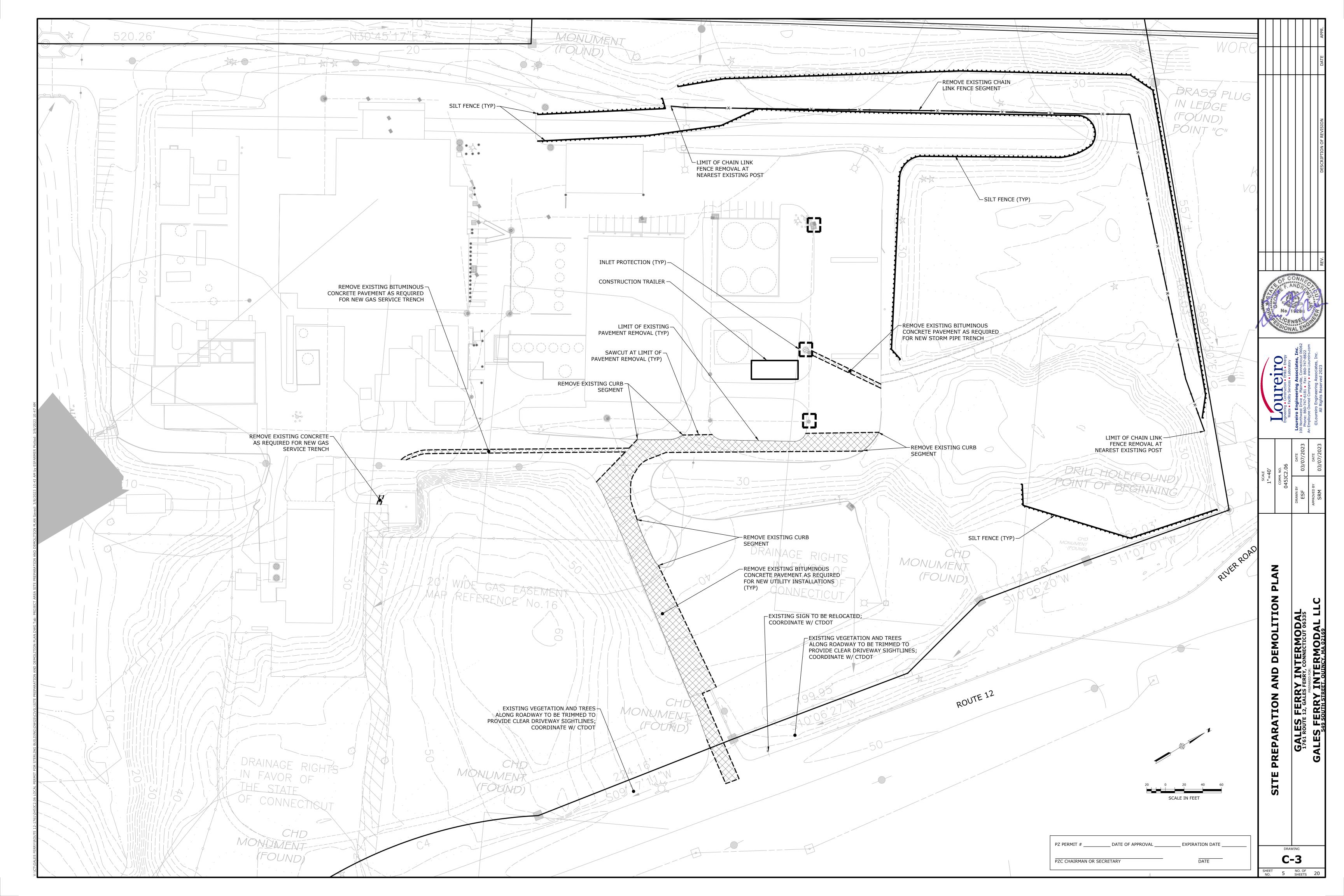
EXPIRATION DATE	

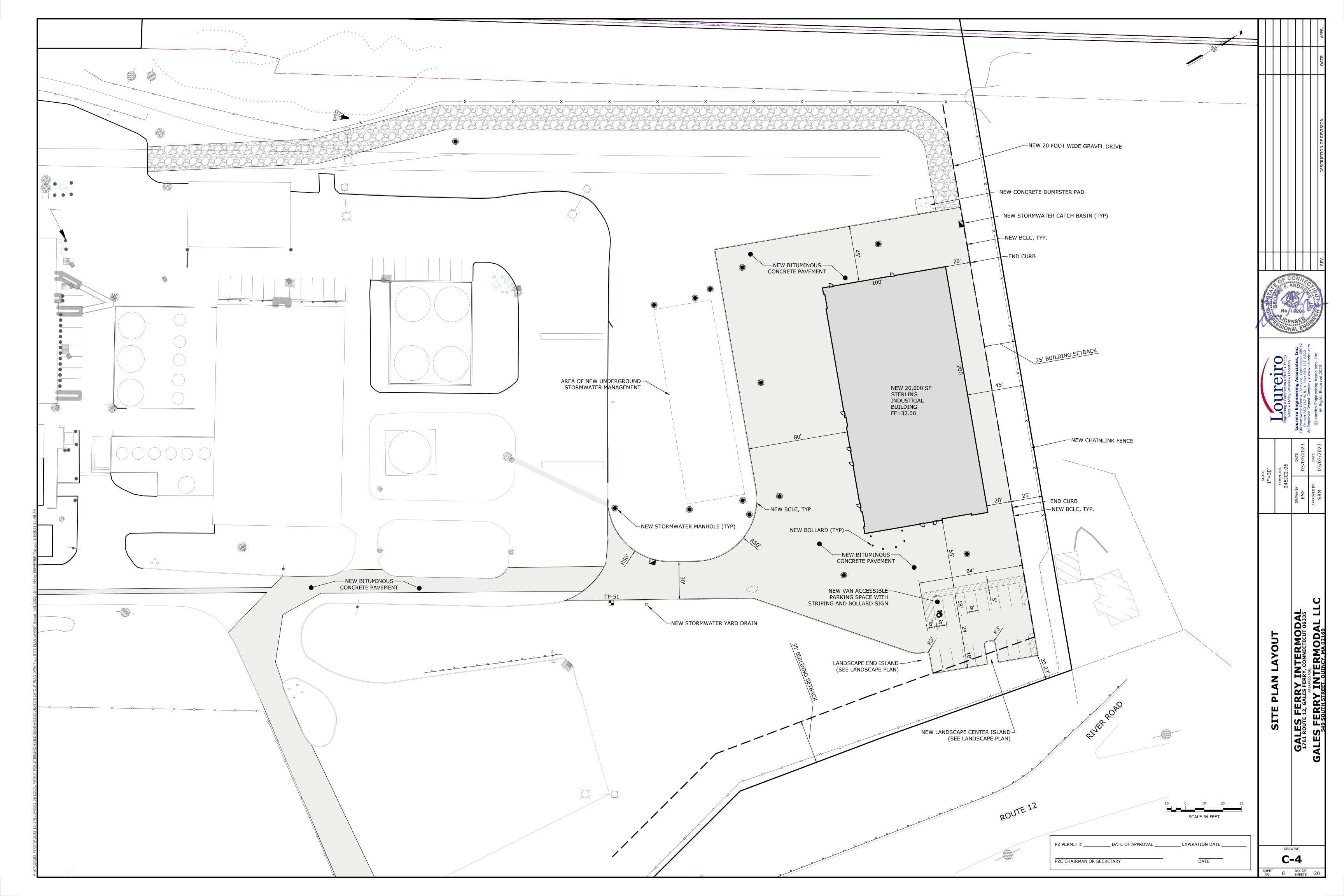
ΛTE		•

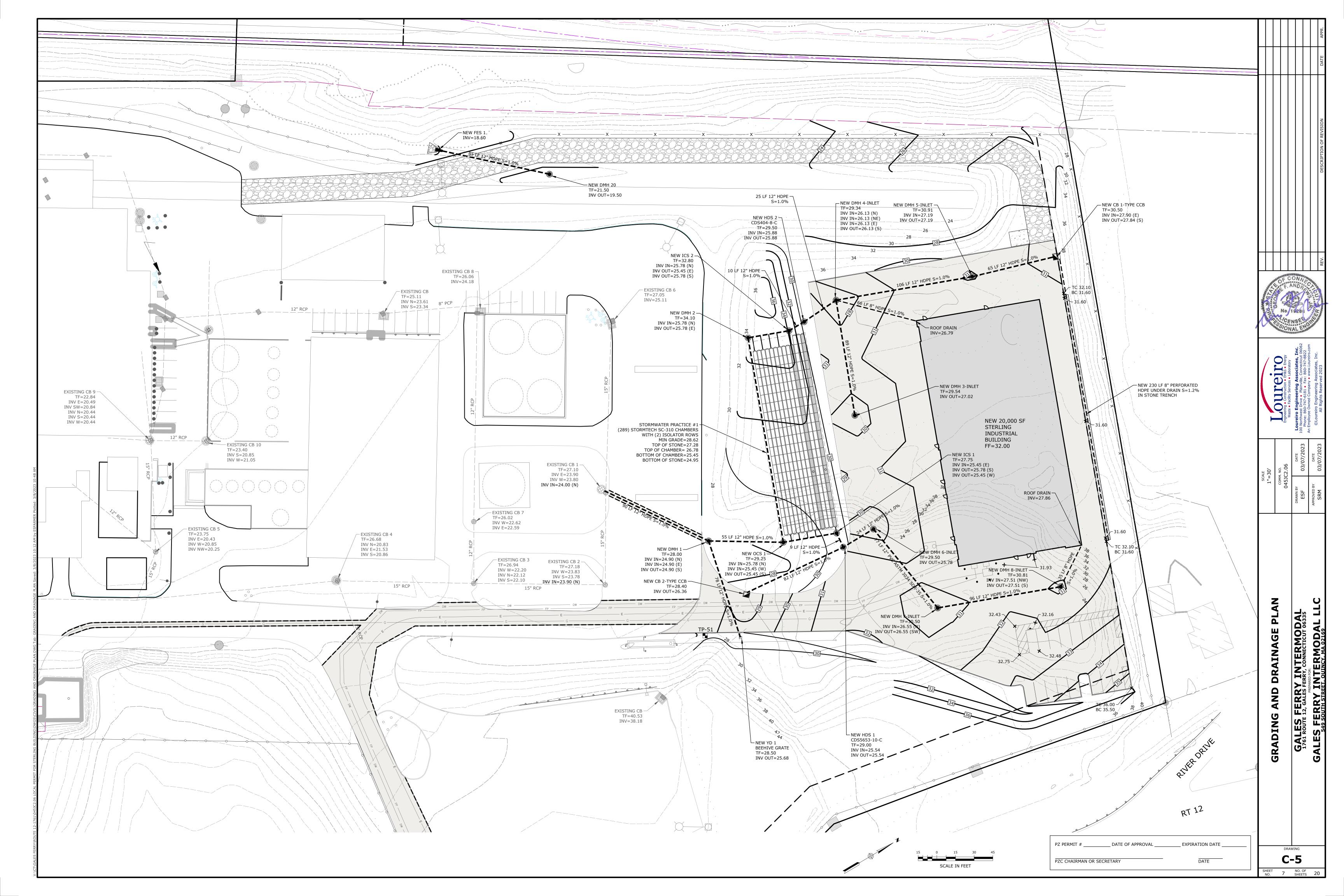
EXISTING CONTOUR EXISTING INDEX CONTOUR NEW SPOT GRADE NEW CONTOUR NEW INDEX CONTOUR NEW INDEX CONTOUR BUILDING SETBACK LINE MUNICIPAL WATER UNDERGROUND ELECTRIC CATCH BASIN W/ E&SC SEDIMENT FENCE SIGN UTILITY POLE DECIDUOUS TREE SOIL TYPE - TAKEN FROM NATURAL RESOURCES CONSERVATION SERVICE, WEBSOIL SURVEY, NATIONAL COOPERATIVE SOIL SURVEY						± FT. (SEE ARCHITECTURAL PLANS) 17 SPACES	3700 ± FT. > 200 FT. 141 ± FT. 45 ± FT. 220 ± FT. 31.5 % ( 2,165,706 SQ. FT.)	PROVIDED 6,882,480 SQ. FT. (158 AC.)		
SHE		SCALE NOT TO COALE		BINARS						
	NS	NOT TO SCALE COMM.NO.	Toureiro	Call CEOD Th						
		045JC2.06	Engineering - Construction - EH&S - Energy Waste - Facility Services - Laboratory	No CEN						
De la		DRAWN BY DATE	Loureiro Engineering Associates, Inc 100 Northwest Drive • Plainville, Connecticut 06062	ONA NOA 1928 NSE						
			An Employee Owned Company • www.Loureiro.com	CC WO JA						
Description     Control of the second street outlock ma 02169	4	APPROVED BY DATE SRM 03/07/2023	©Loureiro Engineering Associates, Inc. All Rights Reserved 2023	ALL	REV.	DES	DESCRIPTION OF REVISION	DA	DATE	APPR.

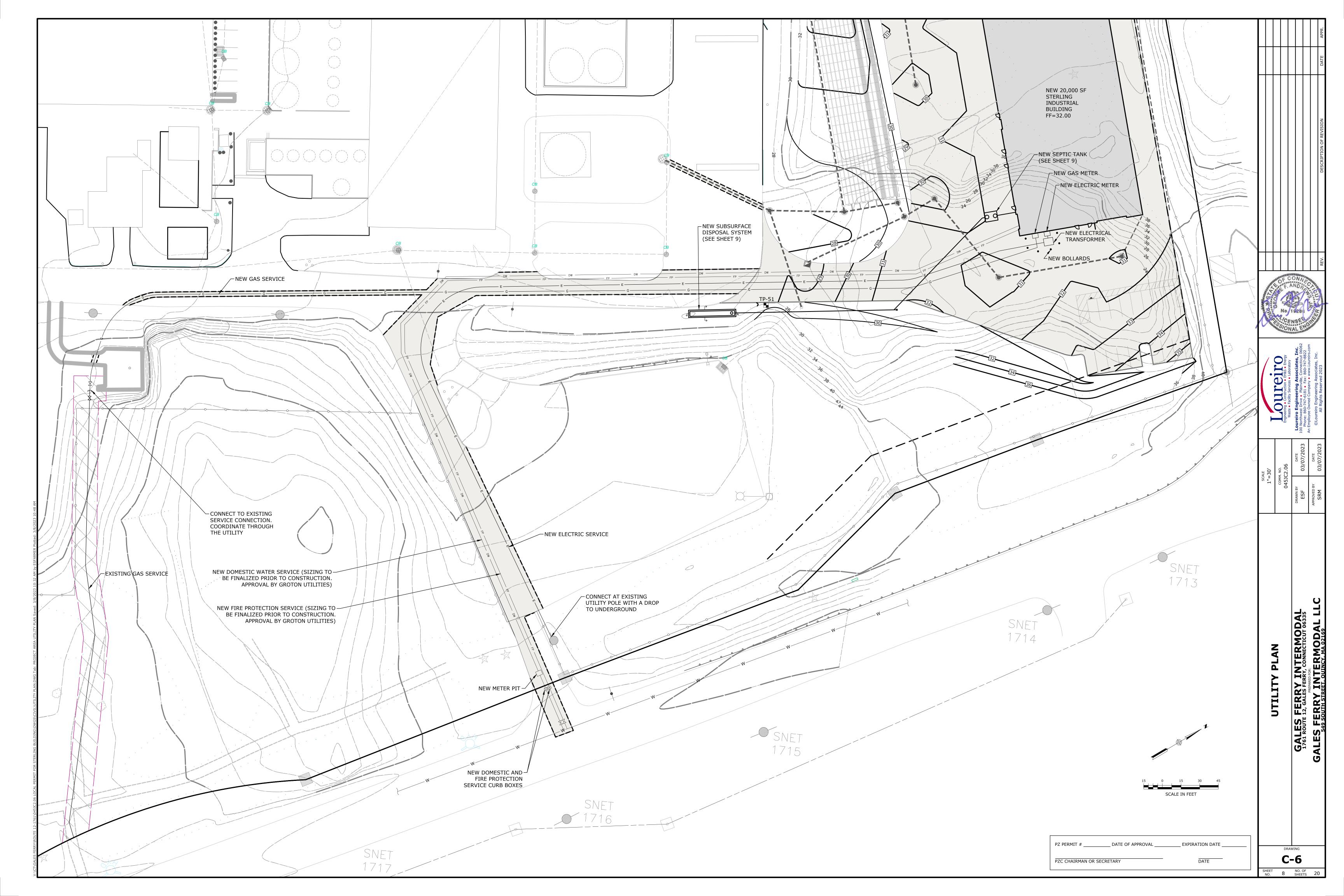


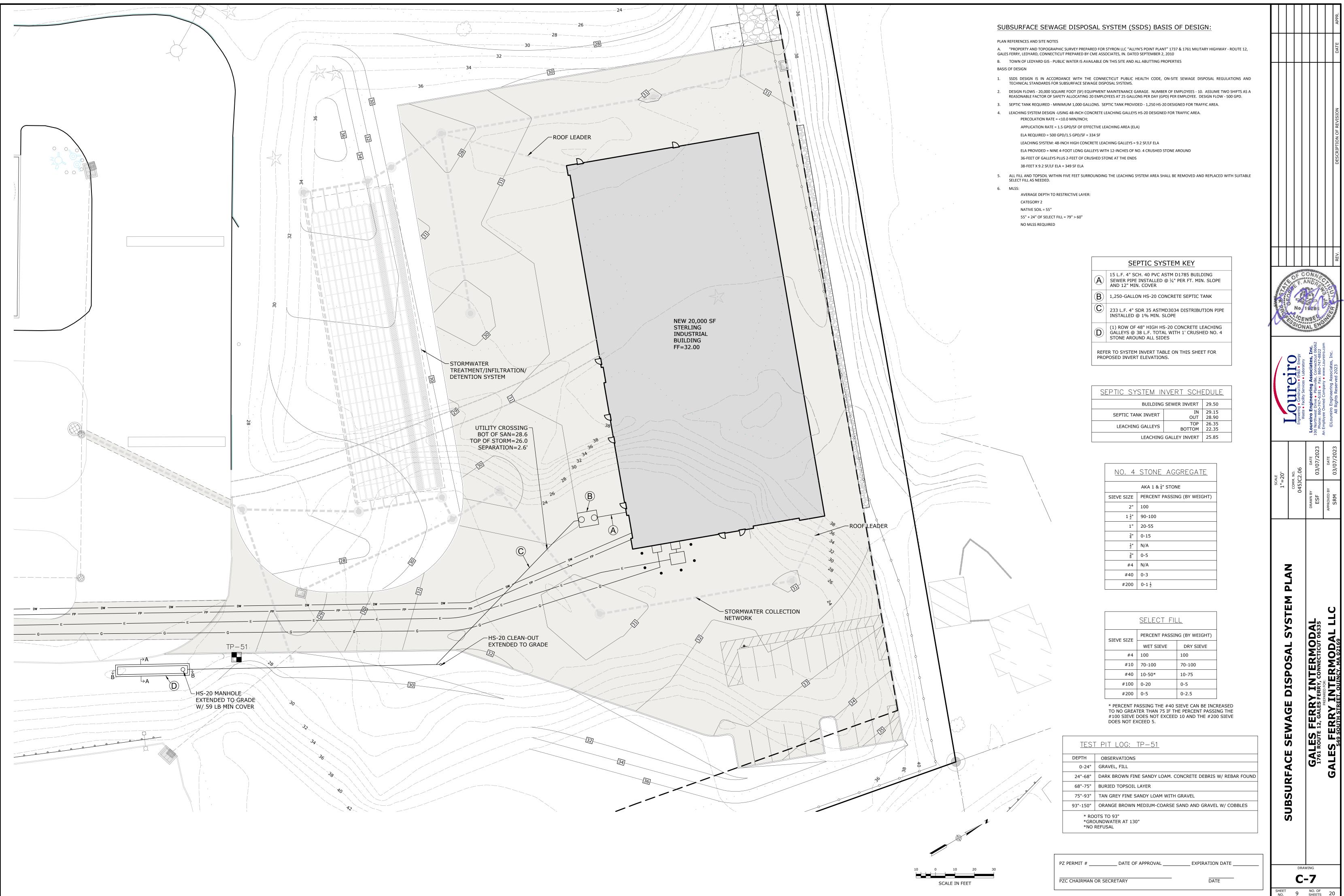




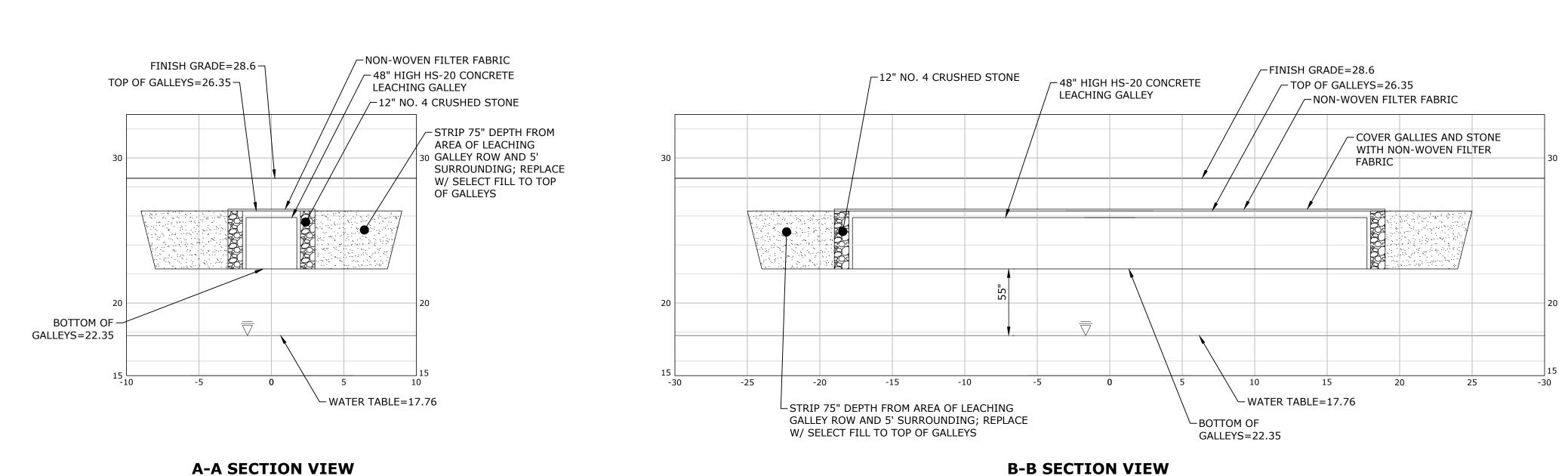








FERRY/ROUTE 12-1761/045JC2.06 LOCAL PERMIT FOR STERLING BUILDING\DWGS\CIVIL\UTILITY PLAN.DWG Tab: SSDS PLAN Saved: 3/8/2023 10:32 AM by ESFARMER Plotted: 3/8/2023 10:



SCALE: 1"=5'H&V

SCALE: 1"=5'H&V

### SUBSURFACE SEWAGE DISPOSAL SYSTEM (SSDS) CONSTRUCTION NOTES:

1) REFER TO SOIL EROSION AND SEDIMENT CONTROL PLAN FOR EROSION PROTECTION.

- 2) PROCEDURES FOR THE INSTALLATION OF FILL:
  - 2.1) NO EXCAVATION SHALL OCCUR PRIOR TO NOTIFYING "CALL-BEFORE-YOU-DIG" AT 1-800-922-4455 OR 811.
  - 2.2) INSTALL EROSION CONTROL ALONG THE DOWN-GRADIENT LIMITS OF FILL IN ACCORDANCE WITH THE SOIL EROSION AND SEDIMENT CONTROL PLAN.
  - 2.3) STRIP ALL VEGETATION, ORGANIC MATTER AND UNSUITABLE OVERBURDEN INCLUDING THE BURIED TOPSOIL TO A DEPTH OF 75-INCHES BELOW GRADE IN THE AREA OF AND TEN FEET SURROUNDING THE NEW LEACHING SYSTEM. REMOVE ANY UNSUITABLE MATERIAL WHICH MAY INTERFERE WITH THE PROPER FUNCTION OF THE SYSTEM.
  - 2.4) SCARIFY THE SURFACE IN THE PROPOSED LEACHING SYSTEM AREA PRIOR TO PLACING ANY SELECT FILL MATERIAL. AVOID COMPACTING THE SCARIFIED AREA. FILL SHALL NOT BE PLACED OVER SNOW OR FROZEN GROUND. DISCONTINUE FILL PLACEMENT DURING HEAVY RAINFALL AND A MINIMUM OF 24 HOURS THEREAFTER.
  - 2.5) SELECT FILL SHALL BE PLACED WITHIN OR ADJACENT TO THE LEACHING SYSTEM PER THE PLAN AND SHALL MEET THE REQUIREMENTS OF SECTION VIII.A OF THE TECHNICAL STANDARDS. SELECT FILL SHALL BE PLACED TO THE TOP OF THE PROPOSED LEACHING GALLEYS AND SHALL EXTEND A MINIMUM OF FIVE FEET LATERALLY IN ALL DIRECTIONS BEYOND THE OUTER PERIMETER OF THE LEACHING SYSTEM AND TO DEPTHS INDICATED IN THE CROSS SECTION. THE SELECT FILL MATERIAL SHALL BE PLACED IN 12" LIFTS AND COMPACTED TO 90% DENSITY.
  - 2.6) A SIEVE ANALYSIS FROM A SOIL TESTING LABORATORY SHALL BE PROVIDED TO LEDGE LIGHT HEALTH DISTRICT FOR ALL SELECT FILL MATERIAL TO DEMONSTRATE COMPLIANCE WITH THE TECHNICAL STANDARDS.
  - 2.7) NATIVE SOIL OR COMMON FILL SHALL BE USED AS BACKFILL BEYOND THE LIMITS OF SELECT FILL AND BELOW THE TOPSOIL LAYER.

3) NO UTILITIES SHALL BE INSTALLED THROUGH ANY PORTION OF THE LEACHING SYSTEM.

4) SEPTIC TANK SHALL BE SET LEVEL ON A MINIMUM OF SIX INCHES OF PROCESSED AGGREGATE OR BROKEN STONE PLACED ON COMPACTED SUBGRADE. BACKFILL AROUND THE TANK SHALL BE PLACED AND COMPACTED IN SIX INCH LIFTS.
5) HS-20 SEPTIC TANK SHALL BE EQUIPPED WITH RISERS TO GRADE EQUIPPED WITH CAST IRON MANHOLE COVERS WITH A

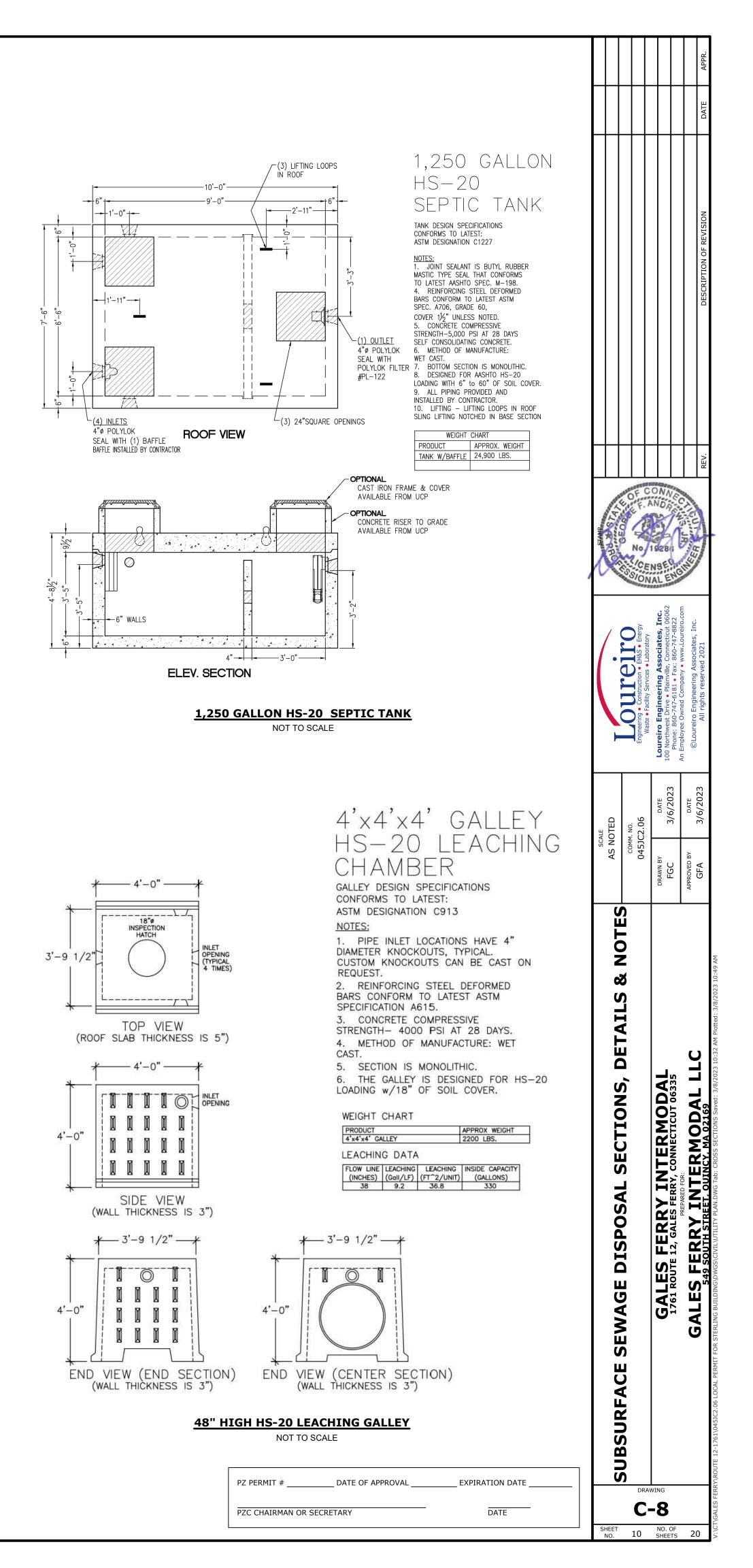
6) PERCOLATION TESTS SHALL BE PERFORMED IN THE PRIMARY AND RESERVE LEACHING SYSTEM AREAS PRIOR TO CONSTRUCTION

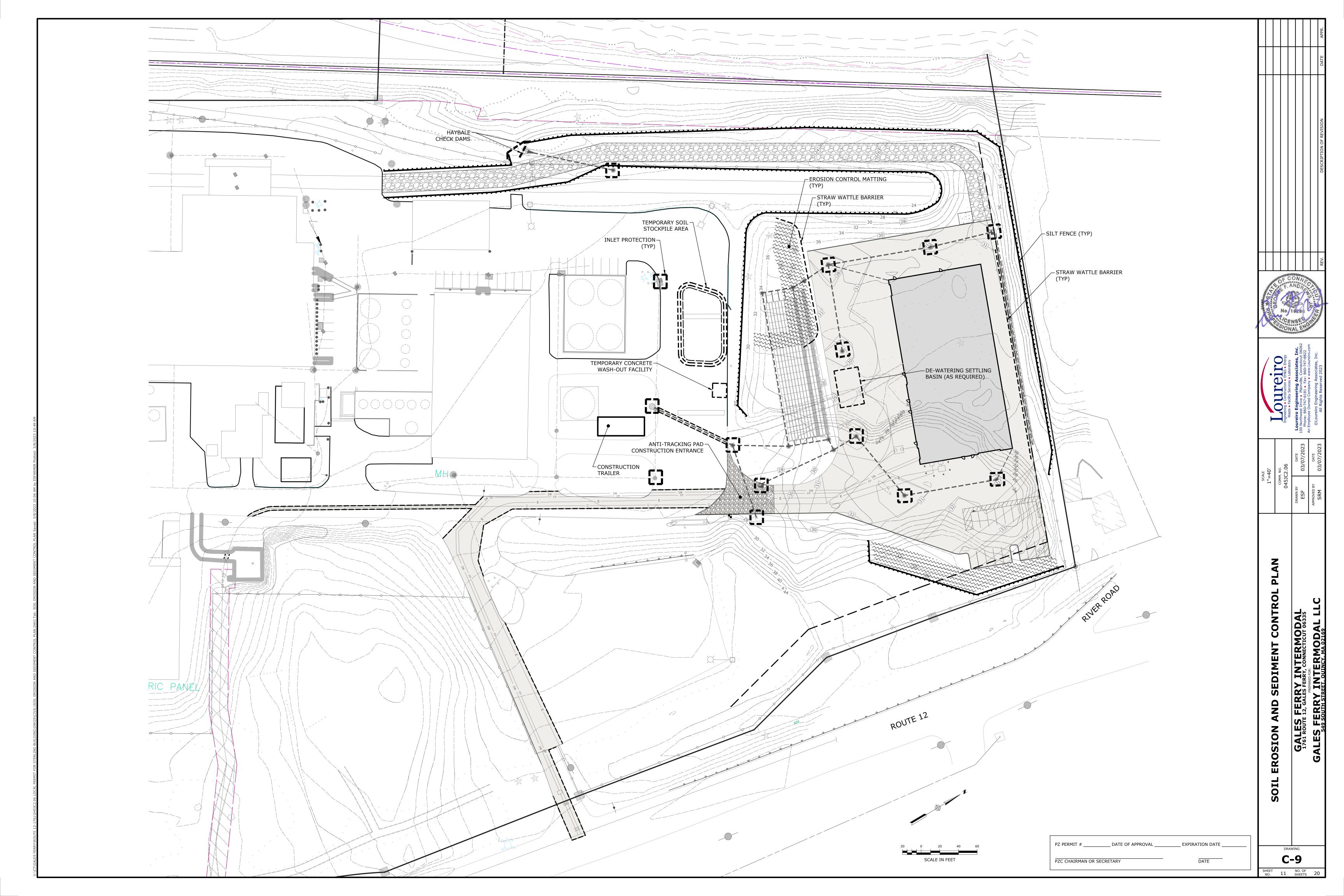
TO CONFIRM DESIGN PERCOLATION RATE. DESIGN ENGINEER SHALL PROVIDE PERCOLATION TEST RESULTS TO LEDGE LIGHT HEALTH DISTRICT UPON COMPLETION. IF THE PERCOLATION RATE IS SLOWER THAN THE DESIGN RATE, REVISIONS TO THE LEACHING SYSTEM WILL BE REQUIRED.

7) THE NEW SSDS SHALL BE STAKED BY A LICENSED SURVEYOR AND A BENCH MARK SHALL BE ESTABLISHED AT THE LOCATION SHOWN ON THE SSDS PLAN.

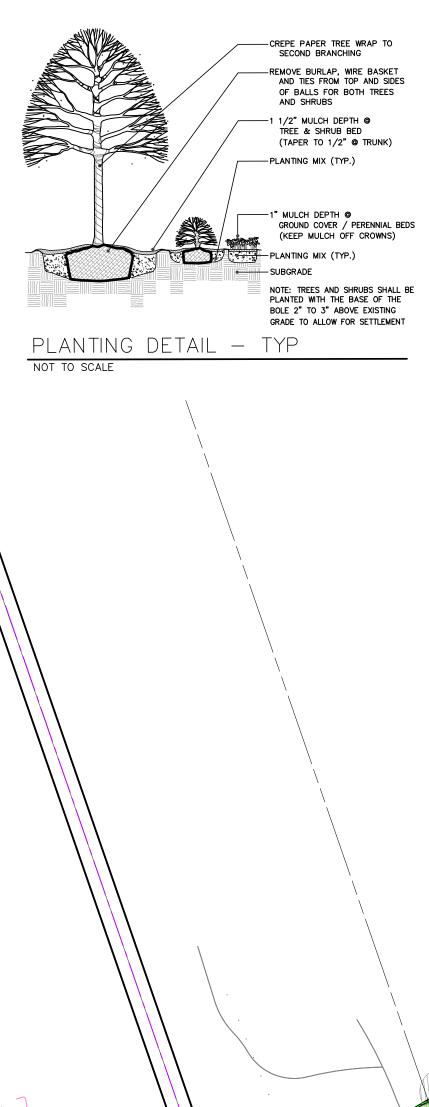
8) THE INSTALLER SHALL SUBMIT TO LEDGE LIGHT HEALTH DISTRICT UPON 30 DAYS OF COMPLETION SCALED OR TIED AS-BUILT DRAWINGS OF ALL SSDS COMPONENTS. THE DRAWING SHALL INCLUDE THE NAME OF THE INSTALLER, DATE AND PROPERTY LOCATION/ADDRESS.

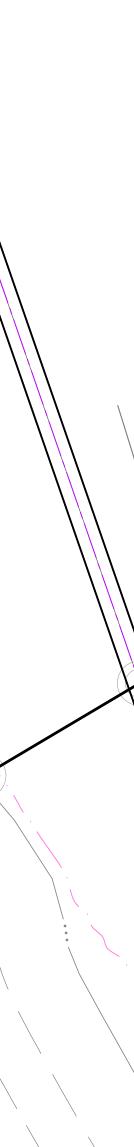
9) ALL STORM AND/OR ROOF DRAINS WITHIN 25 FEET OF THE SEPTIC SYSTEM SHALL BE TIGHT PIPE WITH NO FREE-DRAINING BEDDING MATERIAL IN TRENCH.





EY	OTV			CIZE	COND
Γĭ	QTY.	TECHNICAL NAME	COMMON NAME	SIZE	COND.
ECII	DUOUS -	TREES			
S	2	LIQUIDAMBAR STYRACIFLUA	SWEETGUM	2"-2.5" CAL.	B&B
V	1	MAGNOLIA VIRGINIANA	SWEET BAY MAGNOLIA	6'-7' HT.	B&B
ONI	FEROUS	TREES			
Р	55	THUJA PLICATA 'GREEN GIANT'	GREEN GIANT ARBORVITAE	5'-6' HT.	B&B
HRU	BS				
S	37	CORNUS SERICEA 'FLAVIRAMEA'	YELLOW TWIG DOGWOOD	3 GAL.	CONT.
G	8	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERRY HOLLY	3 GAL.	CONT.
	NNIALS				
S	42	ERAGOSTIS SPECTABILIS	PURPLE LOVE GRASS	1 GAL.	CONT.
N	112	PANICUM VIRGATUM 'NORTHWIND'	NORTHWIND SWITCHGRASS	3 GAL.	CONT.
V	15	PHYSOSTEGIA VIRGINIANA 'VIVID'	VIVID OBEDIENT PLANT	1GAL.	CONT.
D	21	PENSTEMON DIGITALIS 'HUSKER RED'	HUSKER RED BEARDTONGUE	1 GAL.	CONT.





\*

00

- OWNER'S REPRESENTATIVE.

AUGMENT EXISTING –

BUFFER AREA

VEGETATION WITHIN

PROVIDE AND INSTALL ALL PLANTS SHOWN ON THE PLANTING PLAN DRAWINGS; THE QUANTITIES IN THE PLANT LIST ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE ONLY. IF DISCREPANCIES OCCUR, THE DRAWING SYMBOLS PREVAIL OVER THE PLANT LIST QUANTITIES.

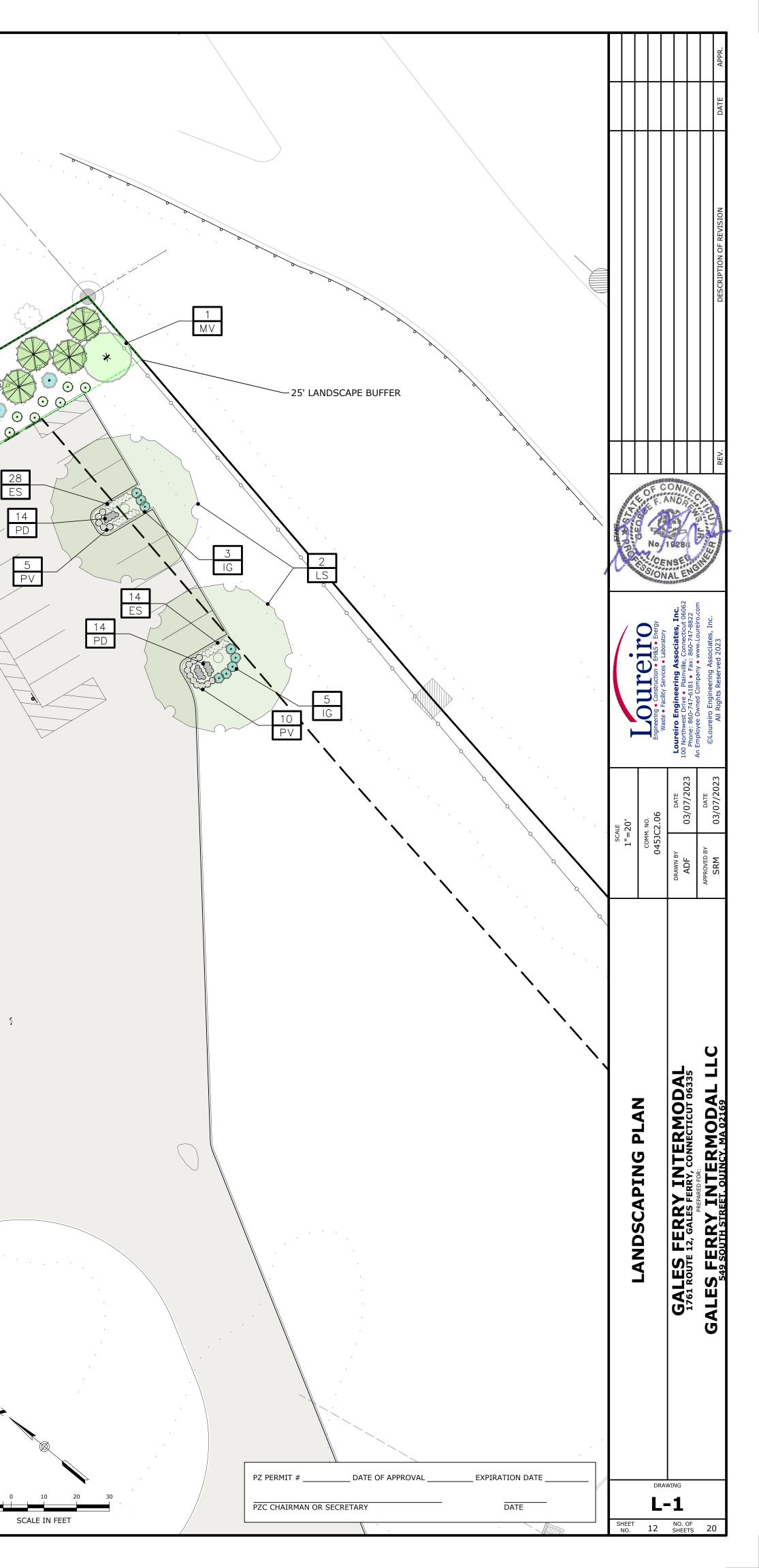
## ENERAL NOTES - LANDSCAPING:

AS CONSTRUCTION PROGRESSES, FINE GRADE AND SEED OR SOD AS SOON AS POSSIBLE TO REDUCE RUNOFF.

ALL PLANTING BEDS TO BE TOPSOILED TO A DEPTH OF 12".

IN ALL SHRUB BEDS TO RECEIVE MASS PLANTING, PROVIDE PINE BARK MULCH AS DETAILED. ESTABLISH A NEAT, SMOOTH EDGE BETWEEN MULCH AND LAWN.

ADJUSTMENTS IN THE LOCATIONS OF PLANT MATERIALS MAY BE NECESSARY DUE TO LOCATIONS OF UTILITIES. ADJUSTMENTS SHALL BE APPROVED BY THE

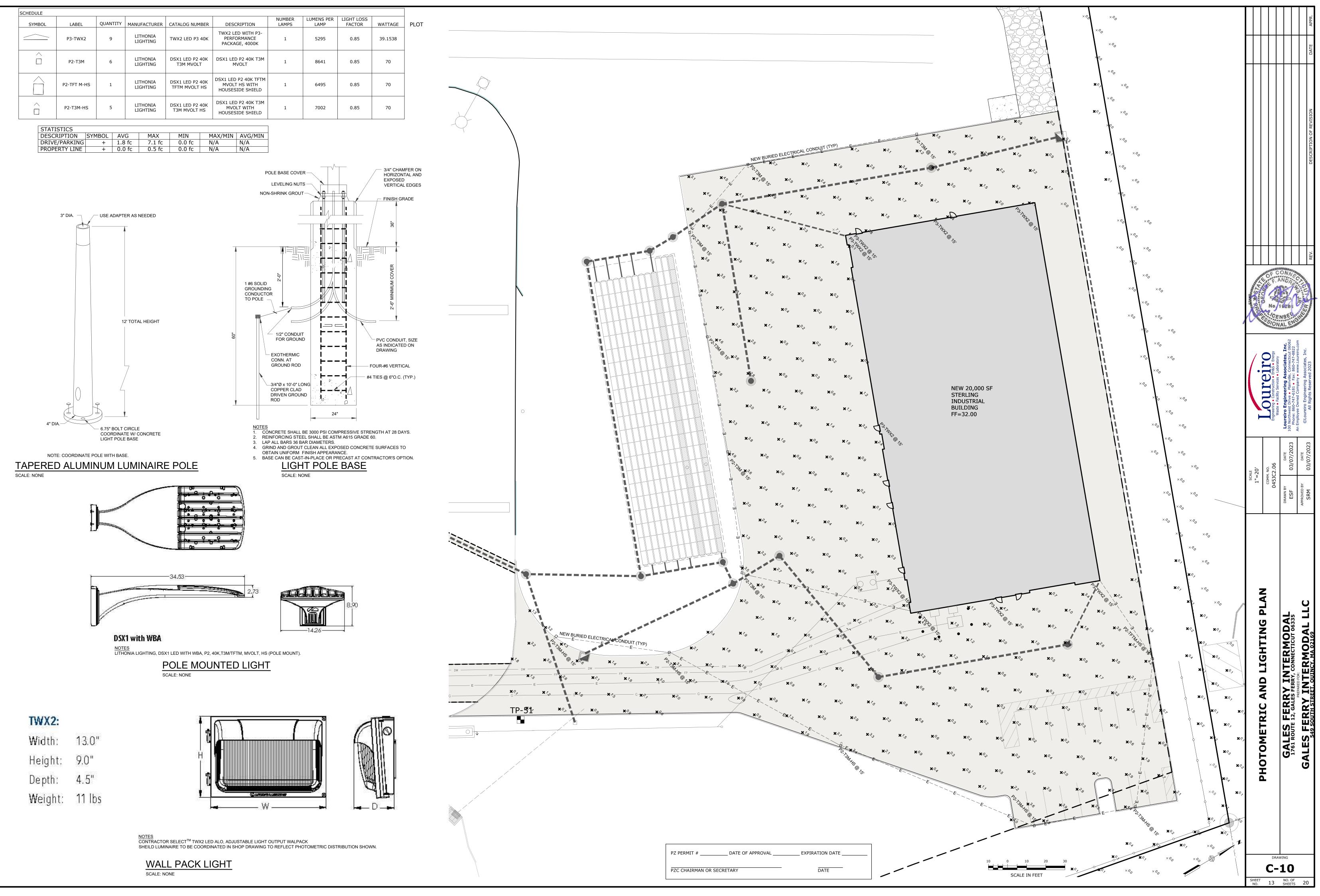


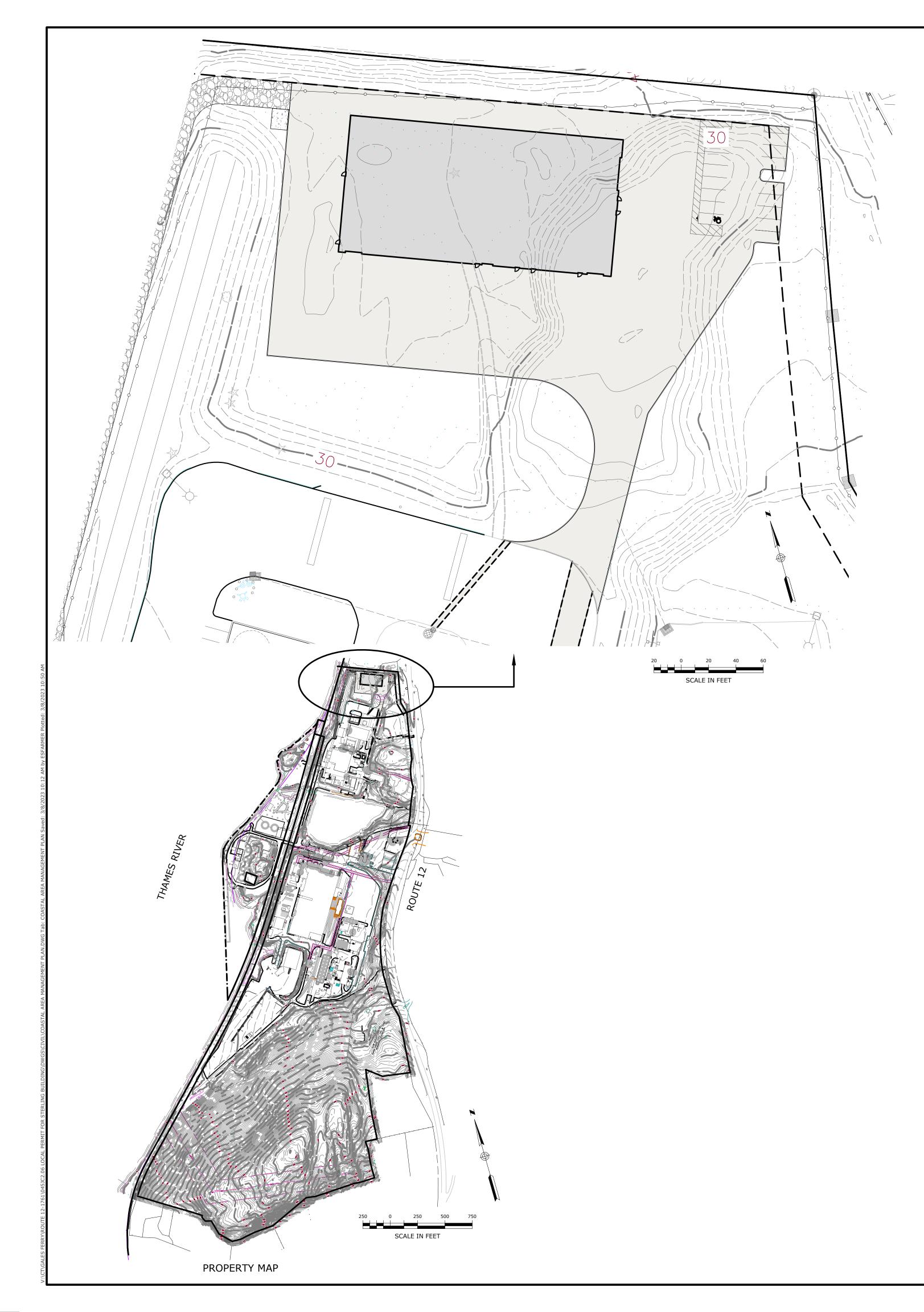
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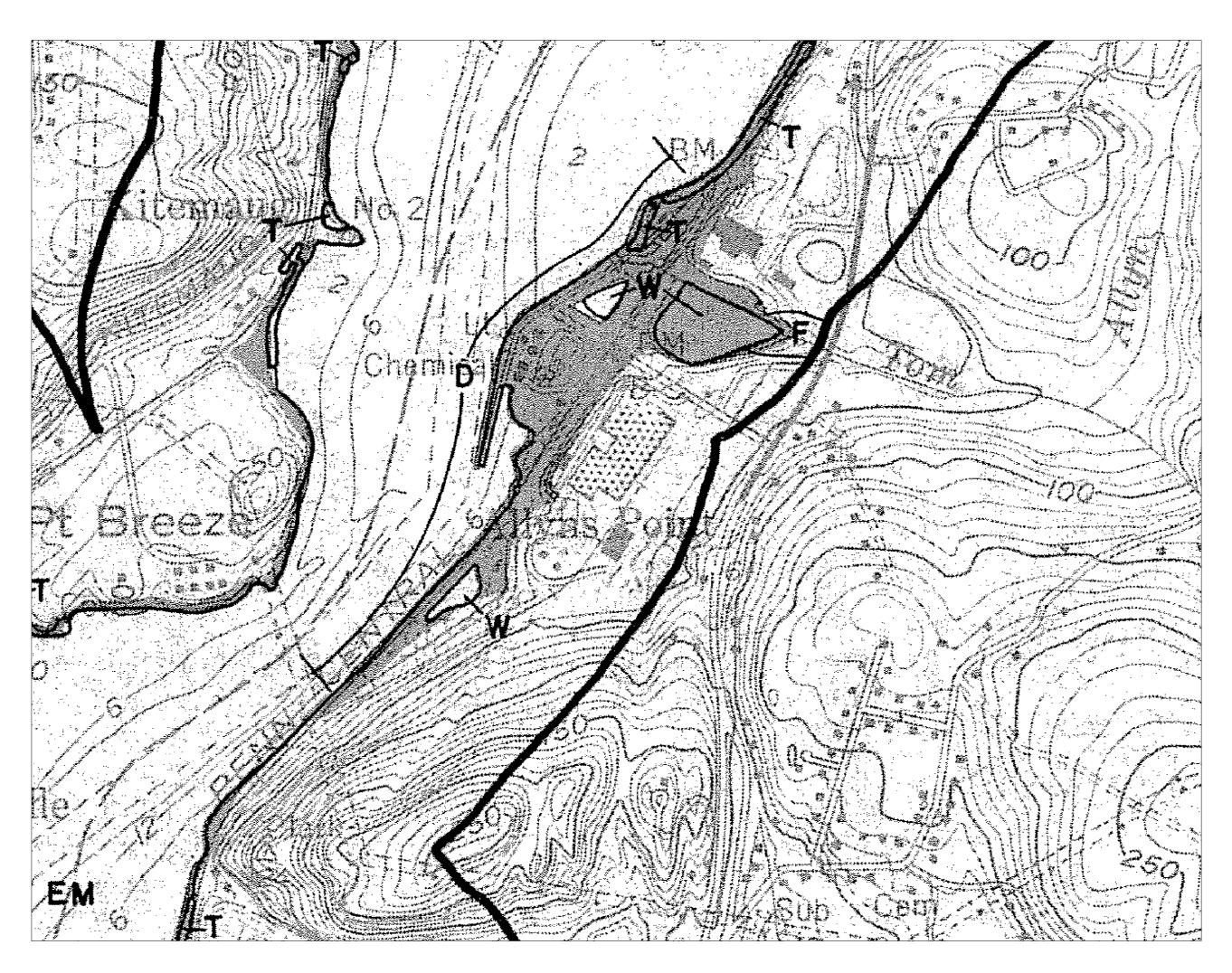
37





## COASTAL RESOURCES

- FEATURES OR SYSTEMS.
- 3. T REGULATED TIDAL WETLANDS: OFFICIAL STATE DESIGNATED AND REGULATED TIDAL WETLANDS LOCATED WITHIN THE COASTAL BOUNDARY. THE AREAS DEPICTED ON THIS MAP SHALL IN NO WAY SUPERSEDE THE OFFICIAL STATE REGULATED TIDAL WETLAND MAPS AT THE SCALE OF 1:2400.
- 4. COASTAL 'FLOOD' HAZARD AREA: 100 YEAR COASTAL FLOOD HAZARD AREA AS IDENTIFIED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA). ON THOSE COASTAL ISLANDS CURRENTLY UNMAPPED BY FEMA, THE FLOOD HAZARD AREA IS CONSERVATIVELY APPROXIMATED BY THE 10' CONTOUR INTERVAL.
- 5. EM ESTUARINE EMBAYMENTS: PROTECTED COASTAL WATER BODIES WITH AN OPEN CONNECTION TO THE SOUND INCLUDING TIDAL RIVERS, BAYS, COVES AND LAGOONS.
- 6. SHORELANDS: UPLAND AREAS AT ELEVATIONS IN EXCESS OF THE 100 YEAR STILL WATER FLOOD LEVEL AND LOCATED WITHIN THE COASTAL BOUNDARY.



COASTAL RESOURCES

1979. PREPARED BY COASTAL AREA MANAGEMENT PROGRAM, CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION

1. D- DEVELOPED SHOREFRONT: PORT AND HARBOR AREAS WHICH HAVE BEEN HIGHLY ENGINEERED AND DEVELOPED RESULTING IN THE FUNCTIONAL IMPAIRMENT OR SUBSTANTIAL ALTERATION OF THEIR NATURAL PHYSIOGRAPHIC

W- WATER: OPEN WATER BODIES SUCH AS BUT NOT LIMITED TO LAKES AND PONDS SUBJECT TO REGULATION UNDER SECTIONS 22A-36 TO 22A-45 OF THE CONNECTICUT GENERAL STATUES.

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	SCALE AS NOTED	· PROX	A Land			
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		Waste • Facility Services • Laboratory	A A			
			N AN			
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1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335		An Employee Owned Company • www.Loureiro.com	ECON			
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549 SOUTH STREET, OUINCY, MA 02169	SRM 03/07/2023	All Rights Reserved 2023	REV.	. DESCRIPTION OF REVISION	DATE	APPR.

DRAWING

**C-11** 

SHEET 14 NO. OF 20

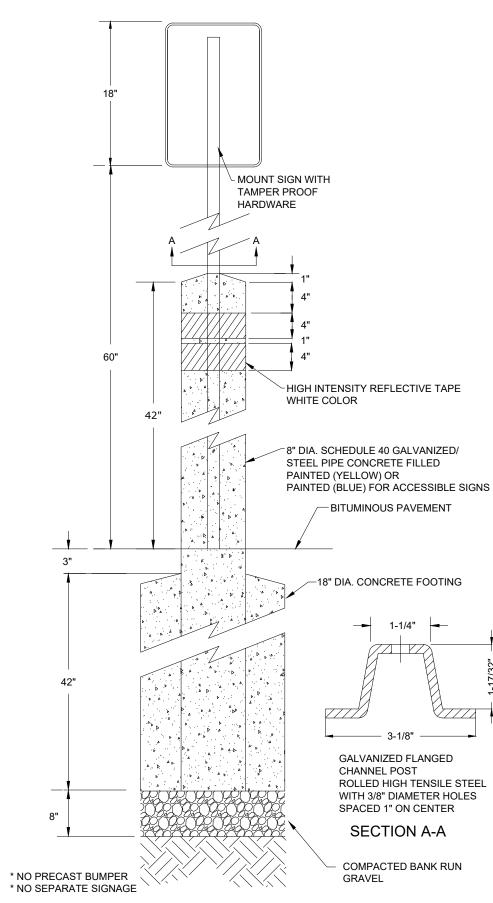
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	PZ PERMIT #	PZ PERMIT # DATE OF APPROVAL _

PZC CHAIRMAN OR SECRETARY

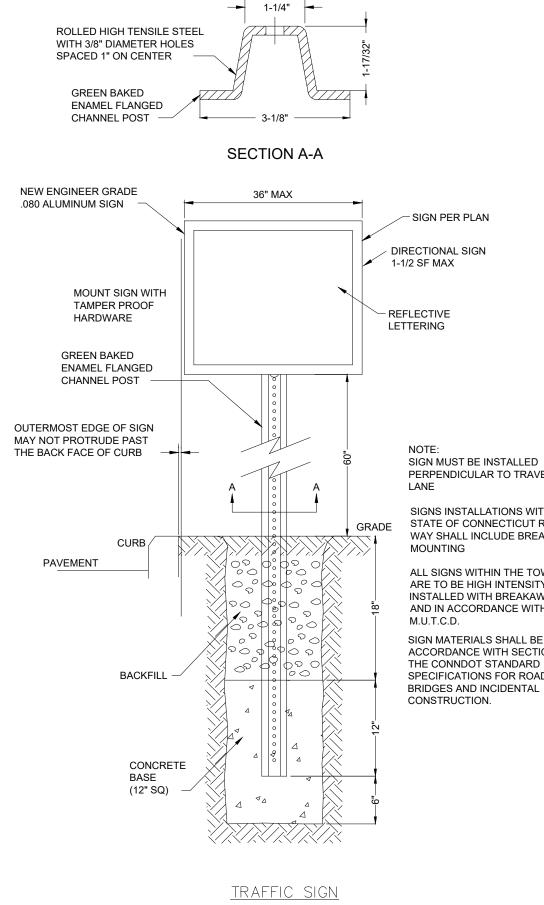
DATE



### SIGN DETAIL SCALE: NONE







NOT TO SCALE



SIGN MUST BE INSTALLED PERPENDICULAR TO TRAVEL

SIGNS INSTALLATIONS WITHIN THE STATE OF CONNECTICUT RIGHT OF

THE CONNDOT STANDARD SPECIFICATIONS FOR ROADWAY,

SIGN MATERIALS SHALL BE IN

ACCORDANCE WITH SECTION M.18 OF

ALL SIGNS WITHIN THE TOWN R.O.W. ARE TO BE HIGH INTENSITY PRISMATIC, INSTALLED WITH BREAKAWAY POSTS AND IN ACCORDANCE WITH THE

\_\_\_\_\_

2' MIN

WAY SHALL INCLUDE BREAKAWAY

**BITUMINOUS CONCRETE PAVING** NOT TO SCALE

- 1 1/2" BINDER COURSE, CLASS 1 - 8" PROCESSED AGGREGATE BASE (M.05.01) 8" GRAVEL SUBBASE (M.02.06 GRADATION 'A') — COMPACTED SUBGRADE the state of the second st R <u>\$0\$0\$0\$0\$0\$0\$0\$0\$0\$0\$0\$0\$0\$0\$0\$0\$0</u> :::••

— 3 1/2" CRUSHED STONE (M.01.01)

— COMPACTED SUBGRADE

1. CRUSHED STONE SHALL CONSIST OF WASHED NO.

2. ALL COMPACTION TO BE 95% STANDARD PROCTOR

**GRAVEL SURFACE X-SECTION** 

NOT TO SCALE

EXIST GRADE

-2:1 SIDE SLOPE

- 6" LOAM & WOVEN TURF

REINFORCEMENT MAT

(MAX)

SPECIFICATION SECTION M.01.01

6 STONE AND SHALL BE IN ACCORDANCE WITH THE

CONNECTICUT DEPARTMENT OF TRANSPORTATION

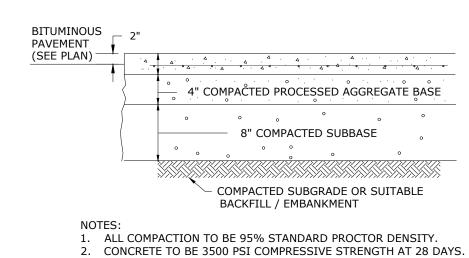
NOTES:

DENSITY

GRASS SWALE

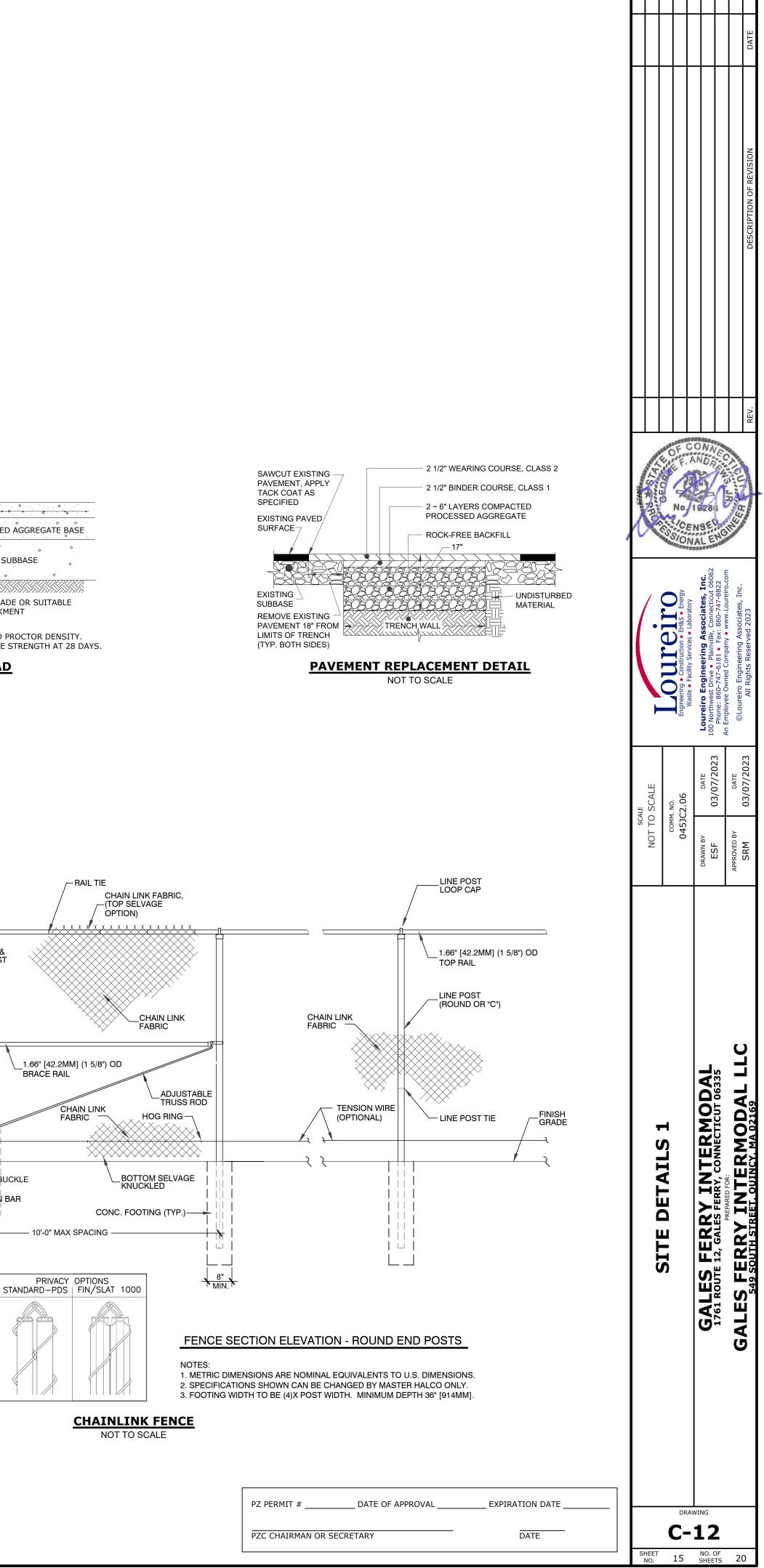
1 1/2" WEARING COURSE, CLASS 2

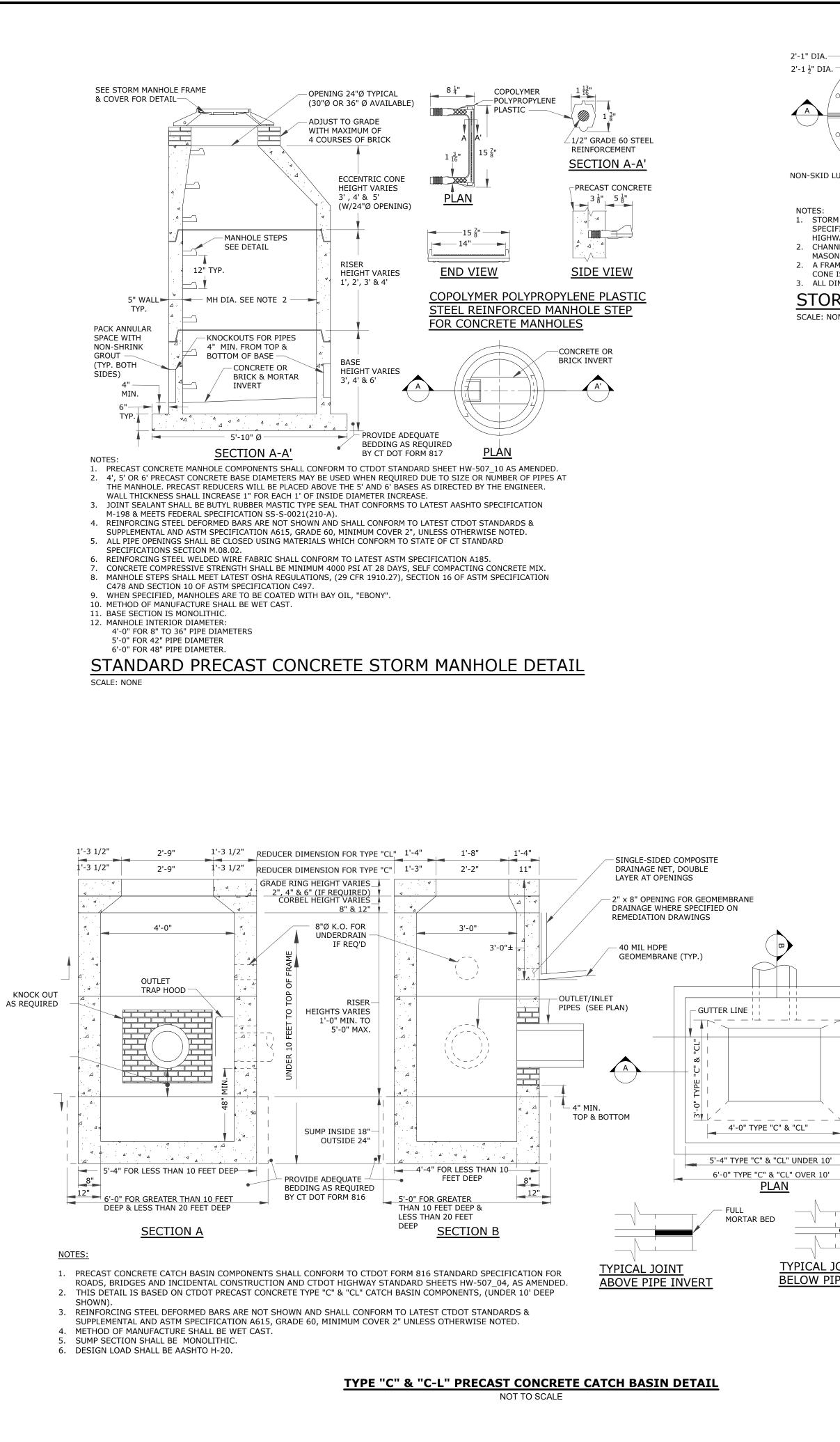
/--POST TOP \_ROUND END & CORNER POST 6'-0" FINISH \_\_\_\_ GRADE -TURNBUCKLE -TENSION BAR 3'-6" L \_\_ \_ END & CORNER TOP & BOTTOM POST TOP OPTIONS FABRIC OPTIONS  $\square$ 

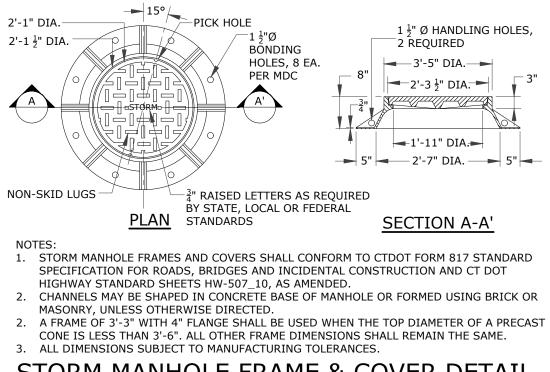


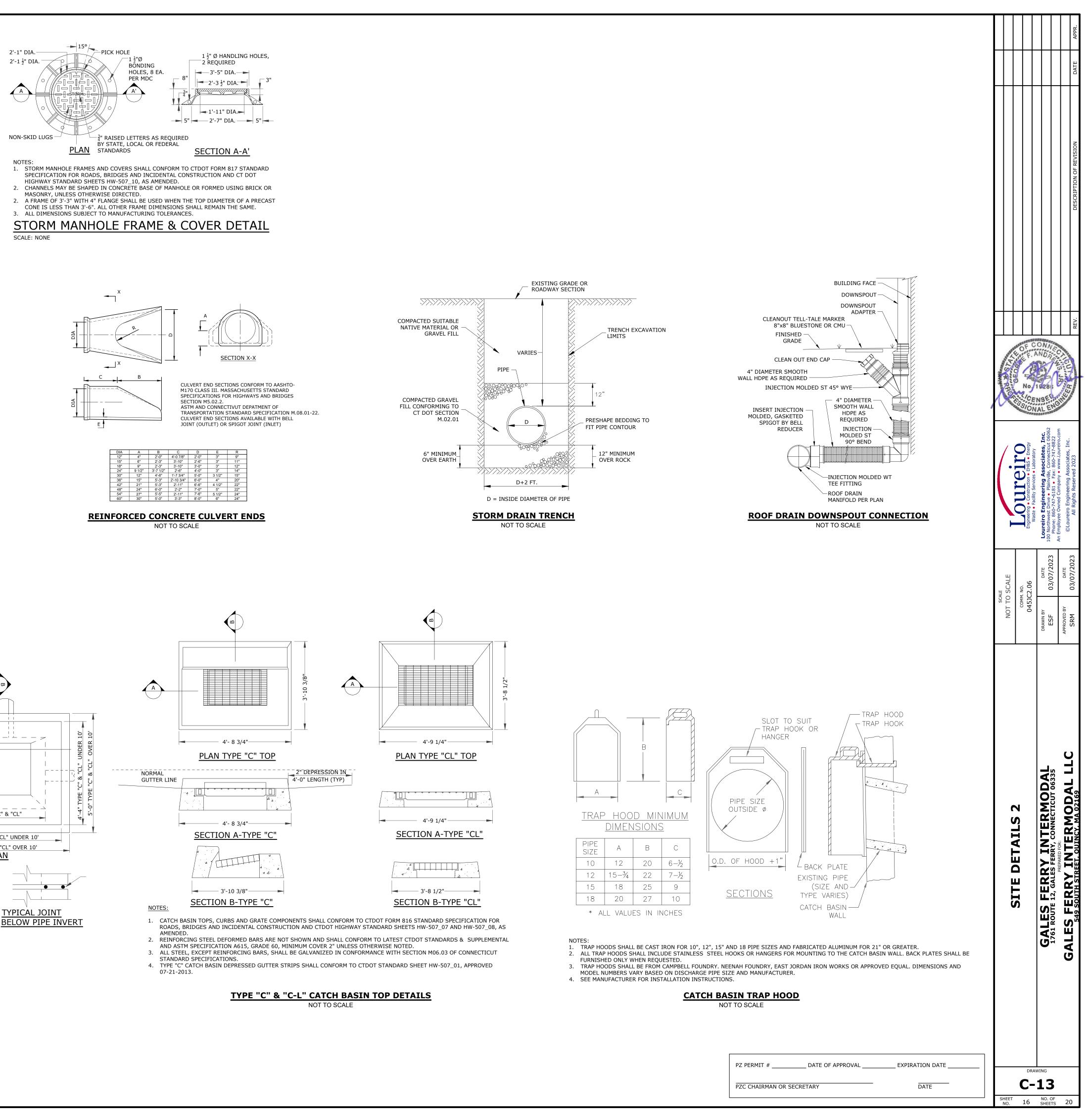
CONCRETE PAD

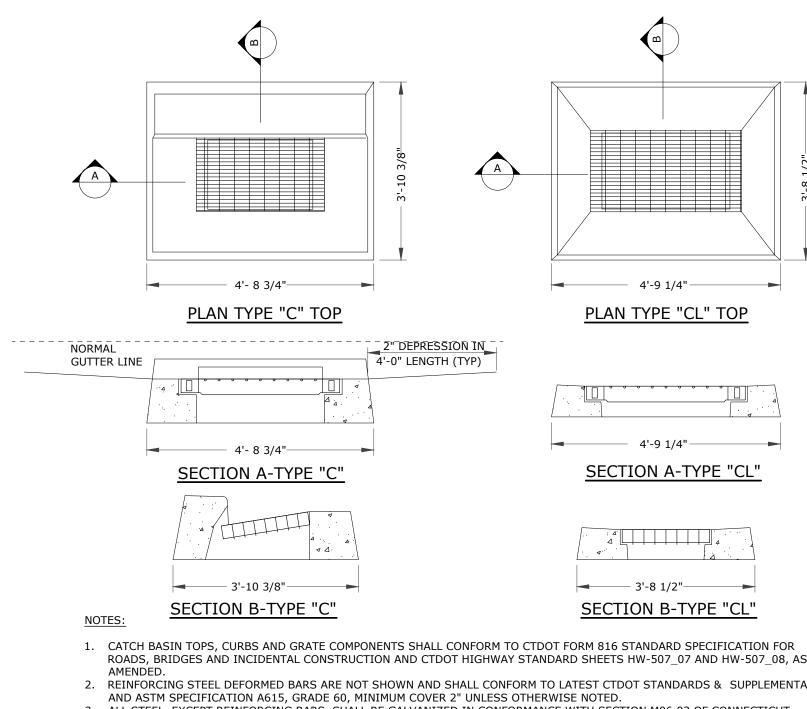
NOT TO SCALE

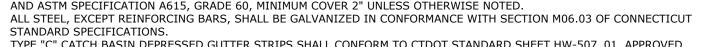


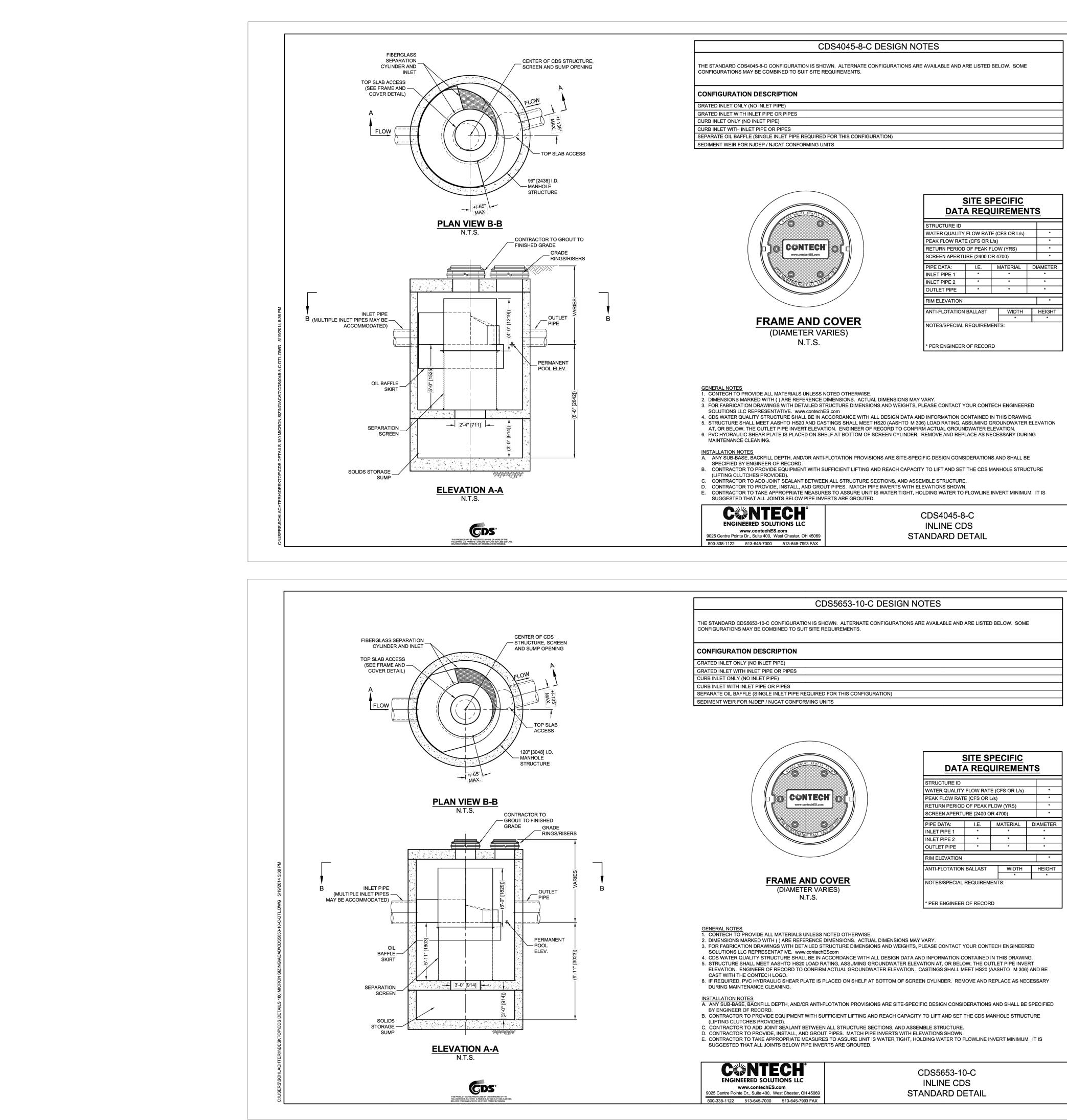


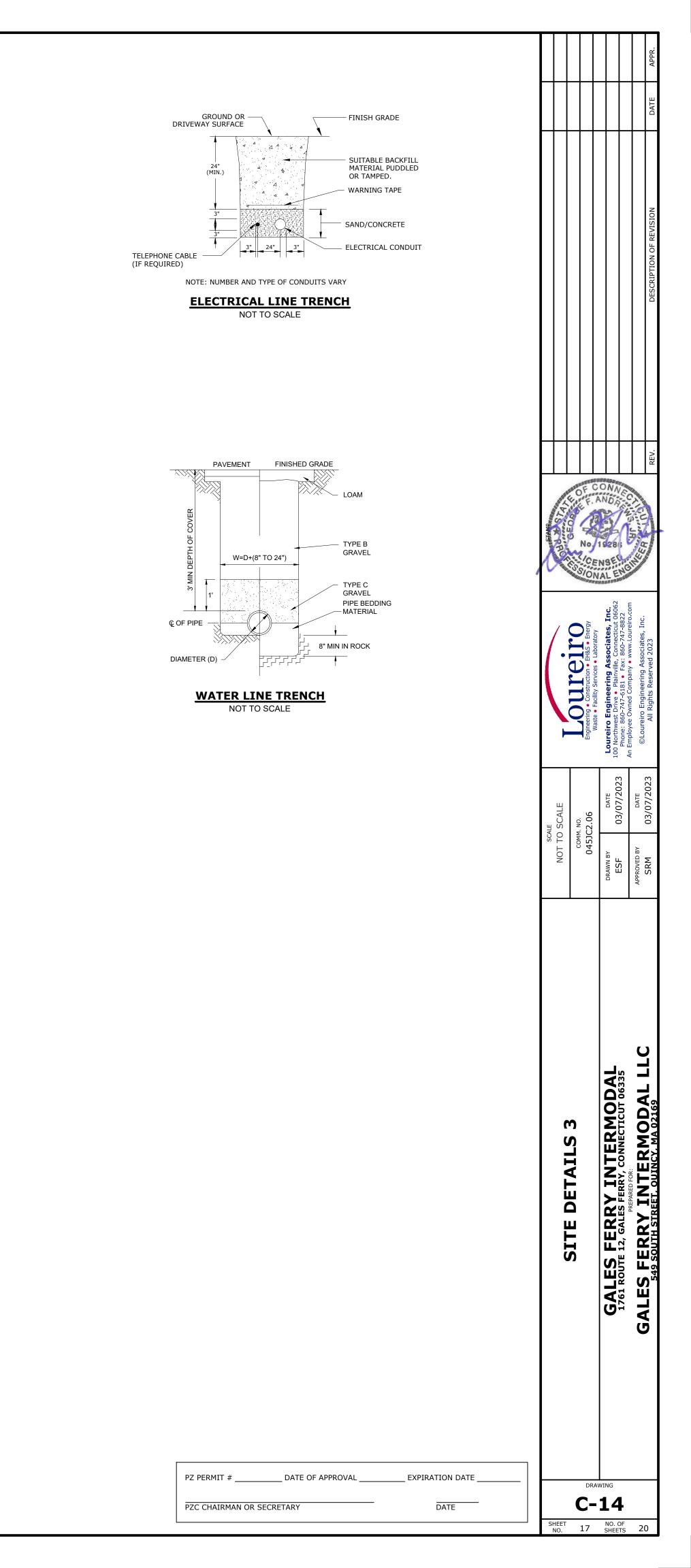


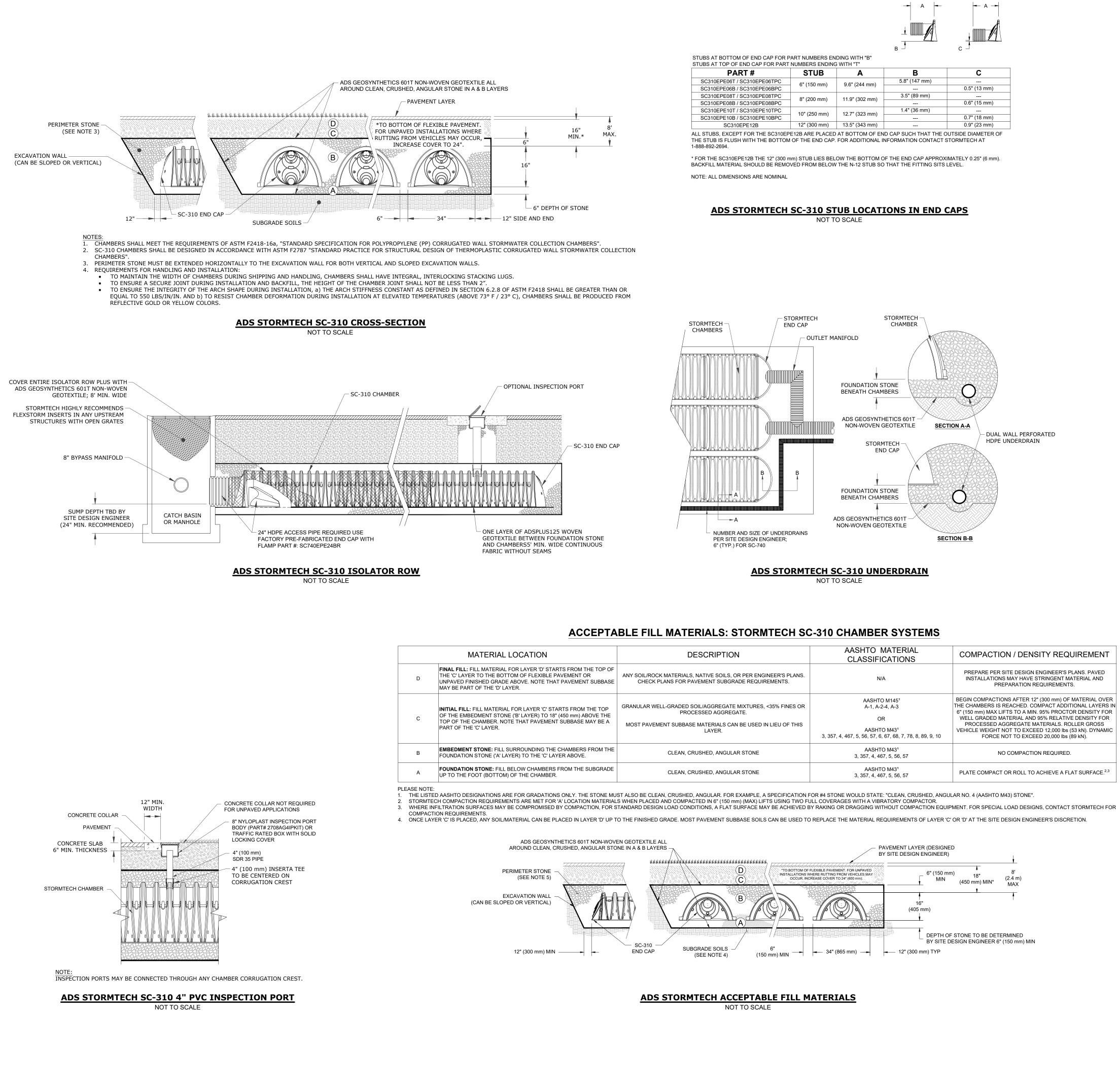


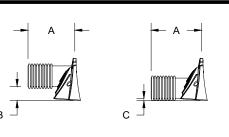












STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B" STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"

PART #	STUB	Α	В	С
SC310EPE06T / SC310EPE06TPC	6" (150 mm)	9.6" (244 mm)	5.8" (147 mm)	
SC310EPE06B / SC310EPE06BPC	0 (100 mm)	3.0 (244 mm)		0.5" (13 mm)
SC310EPE08T / SC310EPE08TPC	8" (200 mm)	11.9" (302 mm)	3.5" (89 mm)	
SC310EPE08B / SC310EPE08BPC	0 (200 mm)	11.9 (302 1111)		0.6" (15 mm)
SC310EPE10T / SC310EPE10TPC	10" (250 mm)	12.7" (323 mm)	1.4" (36 mm)	
SC310EPE10B / SC310EPE10BPC		12.7 (525 1111)		0.7" (18 mm)
SC310EPE12B	12" (300 mm)	13.5" (343 mm)		0.9" (23 mm)
		AT DOTTOM OF FN		

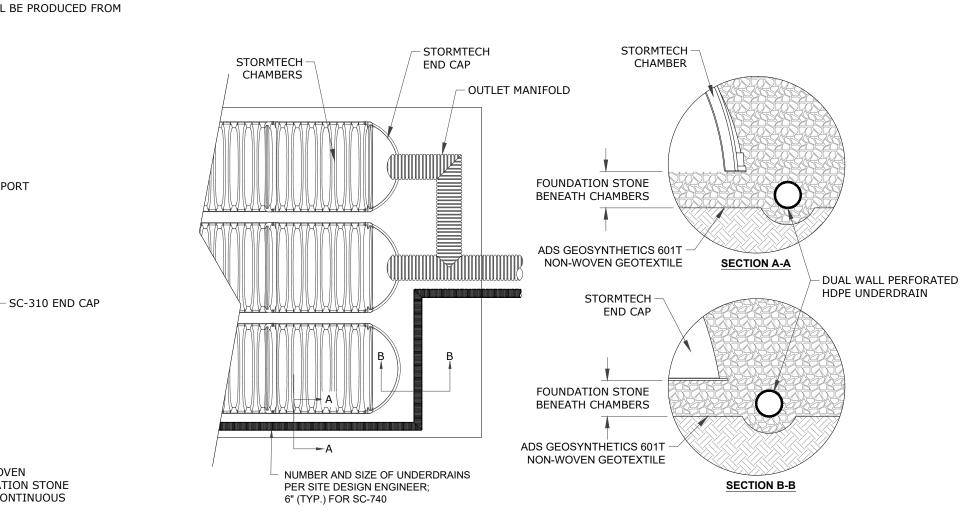
ALL STUBS, EXCEPT FOR THE SC310EPE12B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

\* FOR THE SC310EPE12B THE 12" (300 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 0.25" (6 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL. NOTE: ALL DIMENSIONS ARE NOMINAL

ADS STORMTECH SC-310 STUB LOCATIONS IN END CAPS NOT TO SCALE

MAX

MIN.\*



**ADS STORMTECH SC-310 UNDERDRAIN** 

## NOT TO SCALE

## ACCEPTABLE FILL MATERIALS: STORMTECH SC-310 CHAMBER SYSTEMS

	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
STARTS FROM THE TOP OF LE PAVEMENT OR THAT PAVEMENT SUBBASE	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
STARTS FROM THE TOP 18" (450 mm) ABOVE THE IENT SUBBASE MAY BE A	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 <sup>1</sup> A-1, A-2-4, A-3 OR AASHTO M43 <sup>1</sup> 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
THE CHAMBERS FROM THE LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 <sup>1</sup> 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
ERS FROM THE SUBGRADE BER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 <sup>1</sup> 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. <sup>2,3</sup>

THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE". STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.

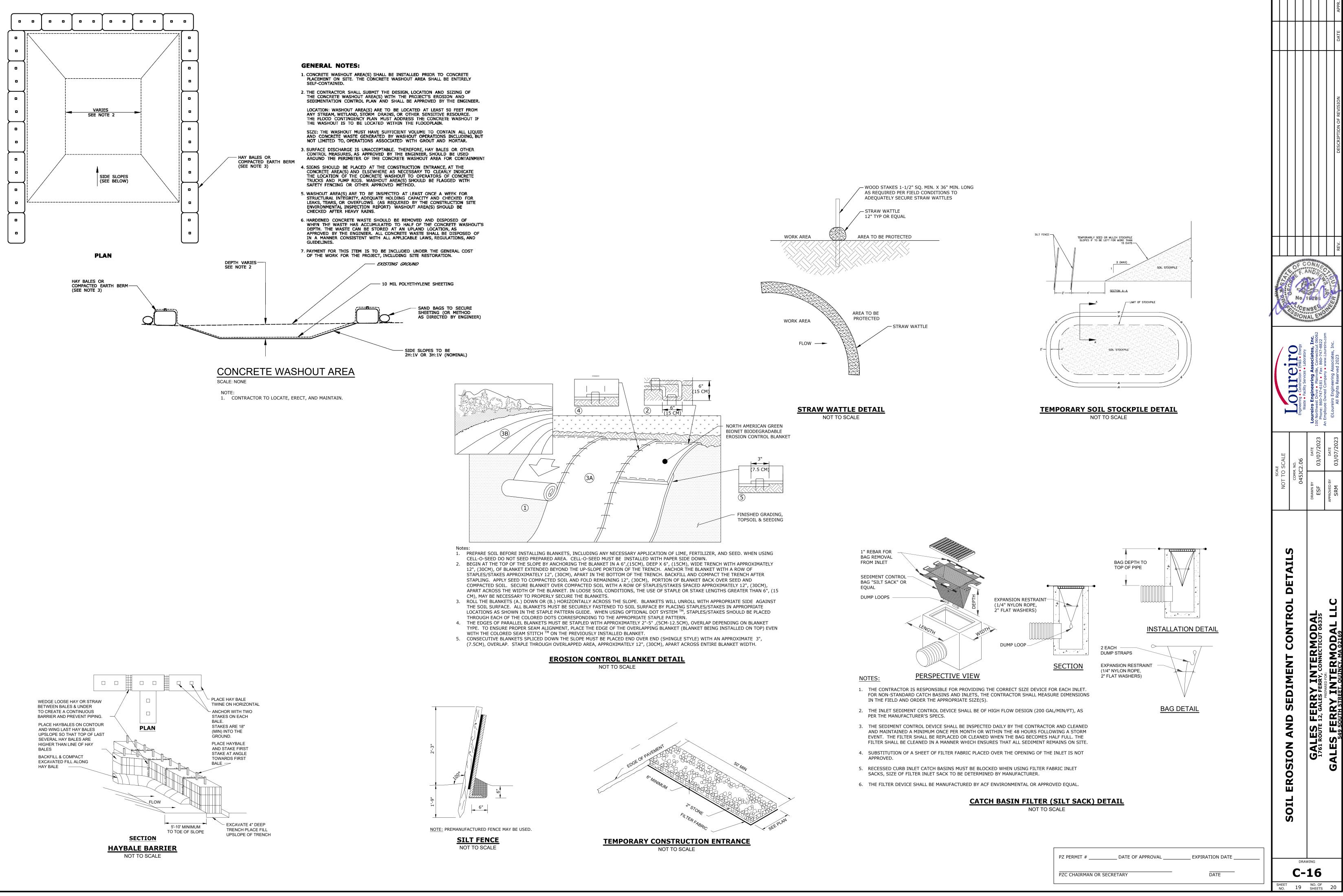
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

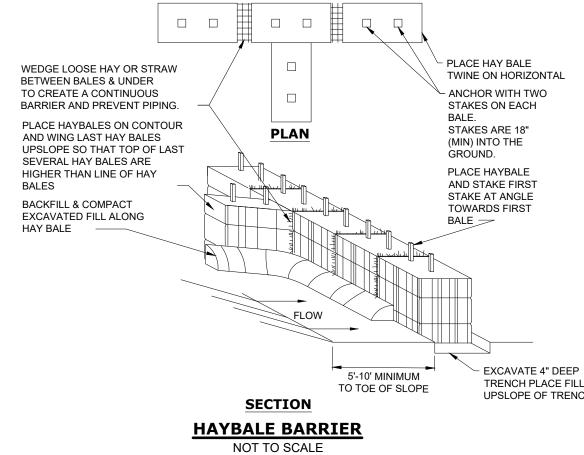
ADS GEOSYNTHETICS 601T NON-WOVEN GEOTEXTILE ALL

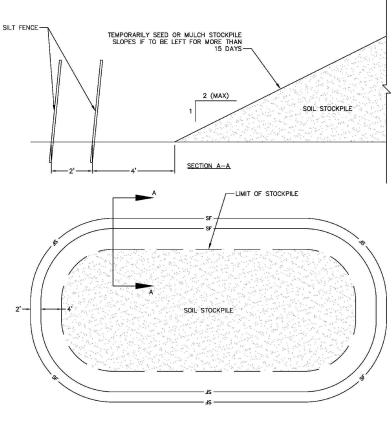
PAVEMENT LAYER (DESIGNED AROUND CLEAN, CRUSHED, ANGULAR STONE IN A & B LAYERS -BY SITE DESIGN ENGINEER) \*TO BOTTOM OF FLEXIBLE PAVEMENT. FOR UNPAVED INSTALLATIONS WHERE RUTTING FROM VEHICLES MAY OCCUR, INCREASE COVER TO 24" (600 mm). 6" (150 mm) 18" (2.4 m) MIN (450 mm) MIN\* MAX 16" (405 mm) DEPTH OF STONE TO BE DETERMINED BY SITE DESIGN ENGINEER 6" (150 mm) MIN SUBGRADE SOILS -6" - 34" (865 mm) - 12" (300 mm) TYP END CAP --(150 mm) MIN <sup>-</sup> (SEE NOTE 4)

> ADS STORMTECH ACCEPTABLE FILL MATERIALS NOT TO SCALE

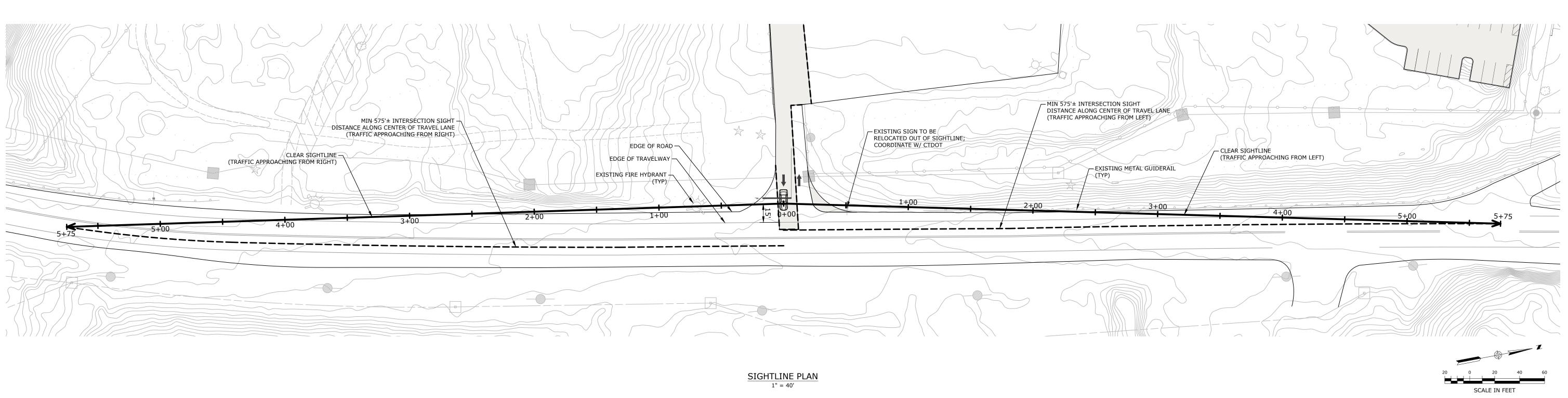
UCTURE ID	CHAMBER	NUMBER OF	TOP OF STONE	TOP OF CHAMBER	1	BOTTOM OF		BLE OUTLET MANIFOL		SIUD	-			
DRMWATER NAGEMENT	TYPE SC-310	CHAMBERS	ELEV.	ELEV.	ELEV.	ELEV. 26.00	SIZE 12"x6"	SIZE	ELEV.	INVERT ELEV. 26.58(12"Ø	-			
AREA 3				ECH SC-3									OF C	ONNECANDR
		INLET	r/outlet	CONTROL ST	RUCTURE E	LEVATION S	SUMMARY TA	BLE				A and a second	ICE SSION SSION	NSEL ONE
STRUCTURE ID	TOP OF FRAME ELEV. A	TOP OF WEIR PLATE ELEV. B	ORIFICE	W-FLOW /WEIR INVERT LEV. C		PE INVERT EV. D	OUTLET PIP ELE	/. E	ELEV. F	-		/ !	Finergy	Associates, Inc. Associates, Inc. ax: 860-747-8822 y • www.Loureiro.co. Associates, Inc.
ICS-1	55.40	52.00				18"Ø) (N)	48.10 (12"Ø ROW 26.60	) (S) (6"Ø;	MANIFOLD 26.60 (12"Ø;	) (E) INLET			D EH&S •	Ass ax: Ass
ICS-2 ICS-3	32.30 31.75	27.70				15"Ø) (W) 12"Ø) (N)	ISOLATOR 26.60 ISOLATOR	ROW) (E) (6"Ø; ROW) (W)	MANIFOLD) ( 26.60 (12"Ø; MANIFOLD)	N & S) INLET ) (S)			Constructio cility Servic	gineering rive • Plainvi 747-6181 • F ried Compan
ICS-4	30.55	27.70	35.00 (!	 5"Ø ORIFICE)	26.60 (	12"Ø) (S)	26.60 ISOLATOR	(6"Ø; ROW) (W)	26.60 (12"Ø; MANIFOLD)	INLET ) (N)			Ineering • (	2 Šogt <b>a</b>
OCS-1 OCS-2	37.45 55.80	36.45 52.70	31.00 (6 50.00 (6 48.00 (5	5"Ø ORIFICE) 5"Ø ORIFICE) 5"Ø ORIFICE)	48.00	 12"Ø) (W) (6"Ø) (S)			31.00 (15"¢ 45.00 (15"¢				Engi	Loureiro Loureiro 100 Northwes Phone: 86 An Employee ©Lourei
OCS-3	31.70	27.83	9.1 (6'	Ø ORIFICE) Ø ORIFICE)	26.60 (	(6"Ø) (N) (6"Ø) (E)		-	25.50 (12"Ø	)) (E)				DATE 03/07/2023 DATE
												OT	COMM. NO. 045JC2.06	BY BY
		:	INLET PIPE				OUTLET PIP	E 2				NOT	0	DRAWN BY ESF APPROVED BY
NOTI *5' ( NUM ABO)	E: DR 6' DIA. P BER OF PIPI VE THE 5' A	TOP OF ELEV. B ORIFICE ELEV. C DETAIL WEIR TOP O INLET F OUTLET PII R PLATE ORIFI	PLATE /WEIR /WEIR ELEV. B PIPE INV. ELEV. B PIPE INV. ELEV. C ELEV. C S MAY BE U NHOLE. P WALL THIC	JSED WHEN R	WEIR DUNTING ANGLES	E TO SIZE OF	DETAIL WEIR PL WALL O WEIR MEIR MEIR MEIR MEIR MEIR MEIR MEIR M	OF MOUNTIN ATE TO INN F STRUCTUR	ER RE			CTODMWATED DETAILS		GALES FERRY INTERMODAL       DRAWN BY         1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335       DRAWN BY         CALES FERRY, CONNECTICUT 06335       ESF         CALES FERRY, TNTFERMODAL       I.I.C
NOTI *5' ( NUM ABO)	WEIR E: DR 6' DIA. P BER OF PIPI VE THE 5' A DE DIAMETI	TOP OF ELEV. B ORIFICE ELEV. C DETAIL WEIR TOP O INLET F OUTLET PII R PLATE ORIFI	PLATE WEIR DF PLATE ELEV. B PIPE INV. ELEV. B PIPE 1 INV. ELEV. C CE/WEIR ELEV. C S MAY BE U NHOLE. P WALL THIC	JSED WHEN R RECAST REDU KNESS TO IN	PLAN VIEW	E TO SIZE OF E TO SIZE OF DR EACH 1' C	DETAIL WEIR PL WALL O WEIR A OUTLET PIP ELEV. F	OF MOUNTIN ATE TO INN F STRUCTUR MOUNTING NGLES E 2 INV.	ER RE					GALES FERRY INTERMODAL 1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335 AL ES FEDDY INTERMODAL LLC
NOTI *5' C NUM ABO	WEIR E: DR 6' DIA. P BER OF PIPI VE THE 5' A DE DIAMETI	TOP OF ELEV. B ORIFICE ELEV. C DETAIL WEIR TOP O INLET F OUTLET PII RECAST BASE S AT THE MA ND 6' BASES. ER INCREASE.	PLATE WEIR DF PLATE ELEV. B PIPE INV. ELEV. B PIPE 1 INV. ELEV. C CE/WEIR ELEV. C S MAY BE U NHOLE. P WALL THIC	JSED WHEN R RECAST REDU LINESS TO IN MOVERFINANT N	PLAN VIEW	E TO SIZE OF DR EACH 1' C	DETAIL WEIR PL WALL O WEIR A OUTLET PIP ELEV. F	OF MOUNTIN ATE TO INN F STRUCTUR MOUNTING NGLES E 2 INV.	ER RE	TION DATE _				GALES FERRY INTERMODAL 1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335 AL ES FEDDY INTERMODAL LLC

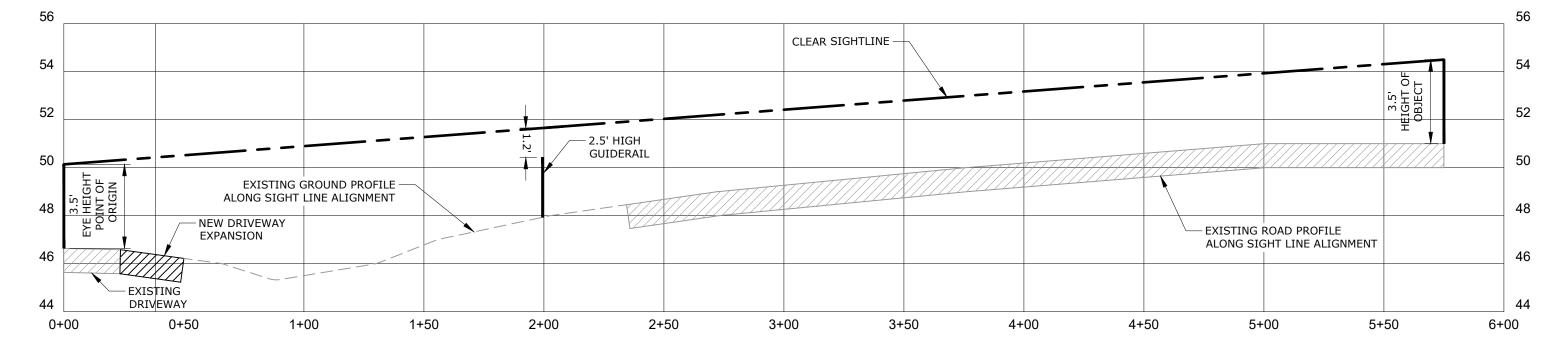






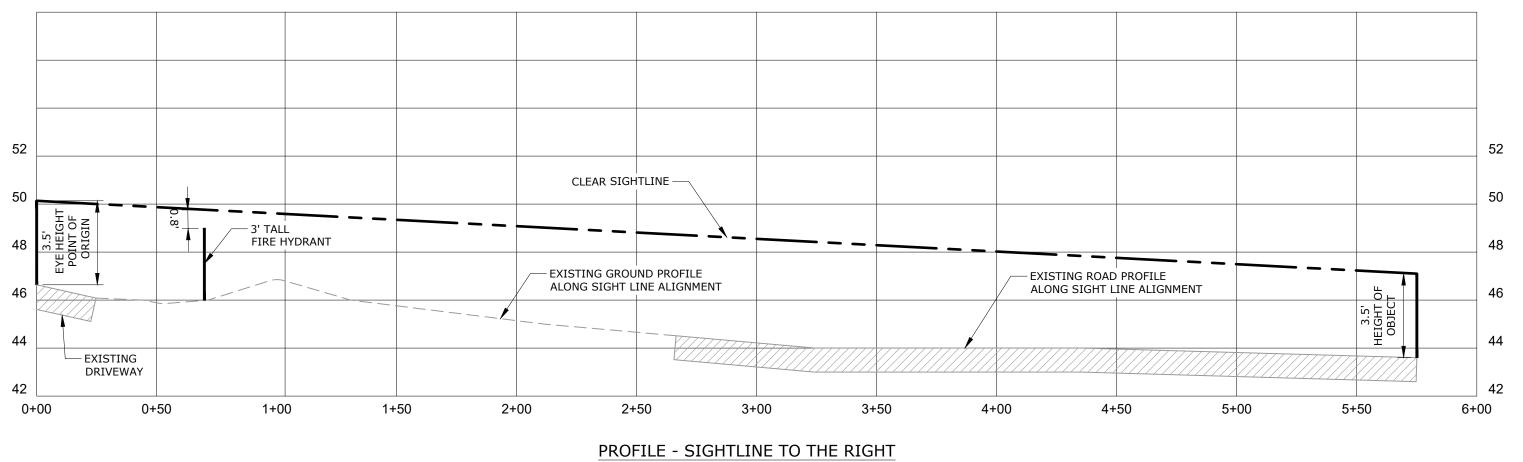






PROFILE - SIGHTLINE TO THE LEFT HORIZONTAL SCALE: 1" = 40' VERTICAL SCALE: 1" = 4'





## NOTES:

- 1) EXISTING ROADSIDE VEGETATION WILL BE REMOVED / TRIMMED AS NEEDED TO PROVIDE THE CLEAR SIGHTLINES DEPICTED ON THIS PLAN. REFER TO SITE PREPARATION AND DEMOLITION PLAN.
- 2) TOPOGRAPHY AND ELEVATIONS DEPICTED ON THIS PLAN WERE OBTAINED FROM CTECO 2016 LIDAR.
- 3) INTERSECTION SIGHT DISTANCE (ISD) OF 575' IS BASED UPON RECORDED 85TH PERCENTILE SPEED OF 52 MPH, PROVIDED BY CTDOT.

SI		SCALE		A REAL BRANCH				
HEET	L	1"=40'	•	XELS A PRO				
	SIGHILINE DEMONSIKALION PLAN			CAL GEODER				
		045JC2.06	Engineering Construction EH&S Energy	No. COM				
AWI			Waste • Facility Services • Laboratory					
NG NO. 0	GALES FERRY INTERMODAL		DATE         Loureiro Engineering Associates, Inc.           100 Northwest Drive • Plainville, Connecticut 06062	NNN SEEEE				
DF			U3/U1/2023         Phone: 860-747-6181         Fax: 860-747-8822           An Employee Owned Company         www.l ourreiro.com	LUCA NO				
		BY		The second				
	549 SOUTH STREET, OUINCY, MA 02169	SRM 03/0	03/07/2023 All Rights Reserved 2023	REV.	DESCRIPTION OF REVISION	-VISION	DATE	APPR.

SHEET 20 NO. OF 20 SHEETS 20

PZ PERMIT # \_\_\_\_\_\_ DATE OF APPROVAL \_\_\_\_ \_\_ EXPIRATION DATE \_\_ DATE PZC CHAIRMAN OR SECRETARY