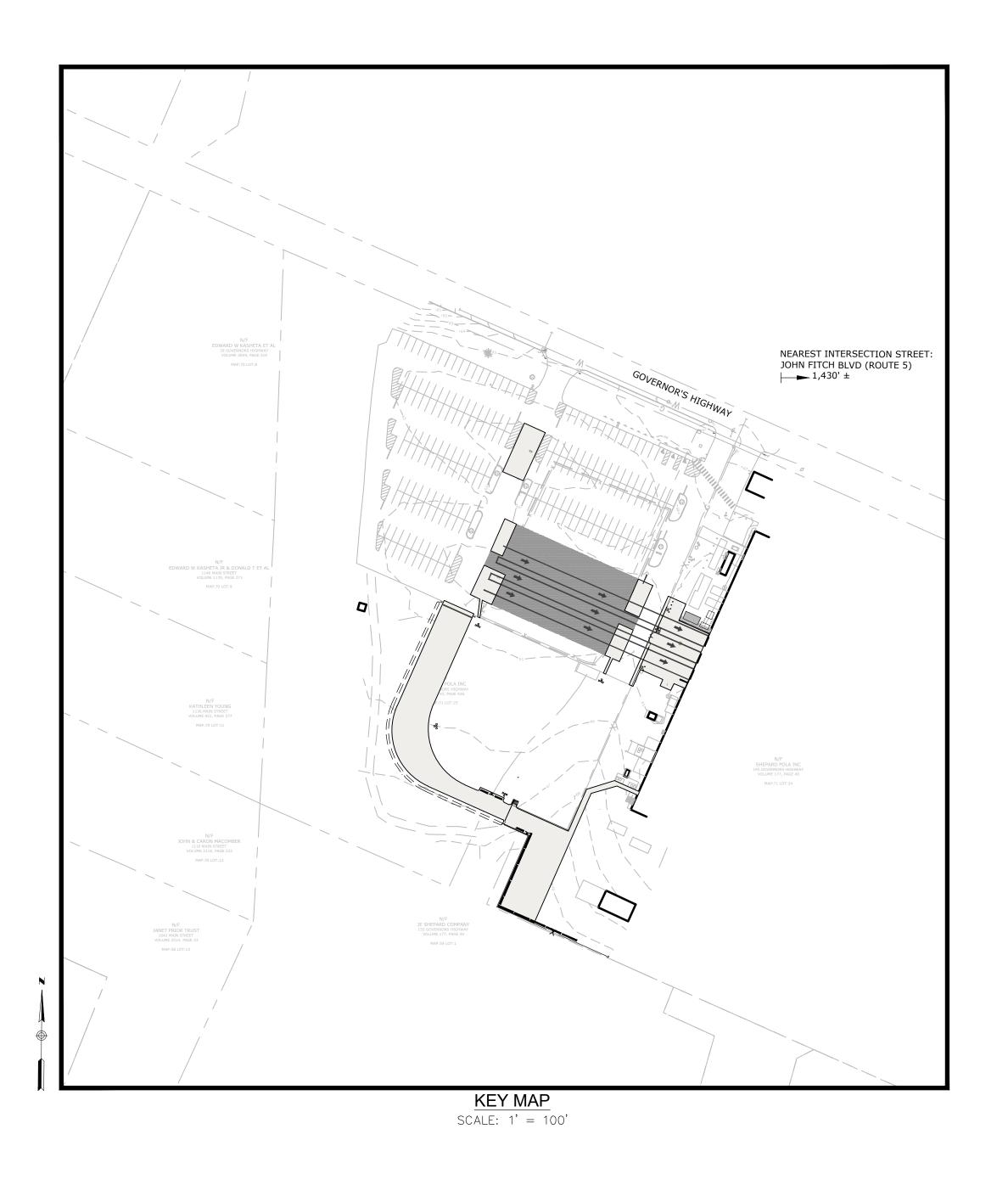
# HYAXIOM - A DOOSAN COMPANY

# SITE MODIFICATIONS

195 GOVERNOR'S HIGHWAY SOUTH WINDSOR, CONNECTICUT

> JULY 1, 2022 REVISED AUGUST 4, 2022 REVISED AUGUST 23, 2022



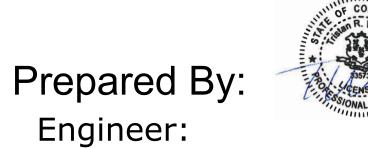
# **LOCATION MAP**

### DRAWING INDEX

TITLE	SHEET NO.
COVER SHEET	
TOPOGRAPHIC SURVEY	1 OF 1
SITE PREPARATION AND DEMOLITION PLAN	C1
SITE LAYOUT PLAN	C2
GRADING & DRAINAGE PLAN	C3
UTILITY PLAN	C4
SOIL EROSION & SEDIMENT CONTROL PLAN	C5
COOLING MODULE CONTAINMENT SLAB	C6
SITE DETAILS	C7
STORMWATER & UTILITY DETAILS	C8
SOIL EROSION & SEDIMENT CONTROL DETAILS	C9
GATE EQUIPMENT DETAILS	C10

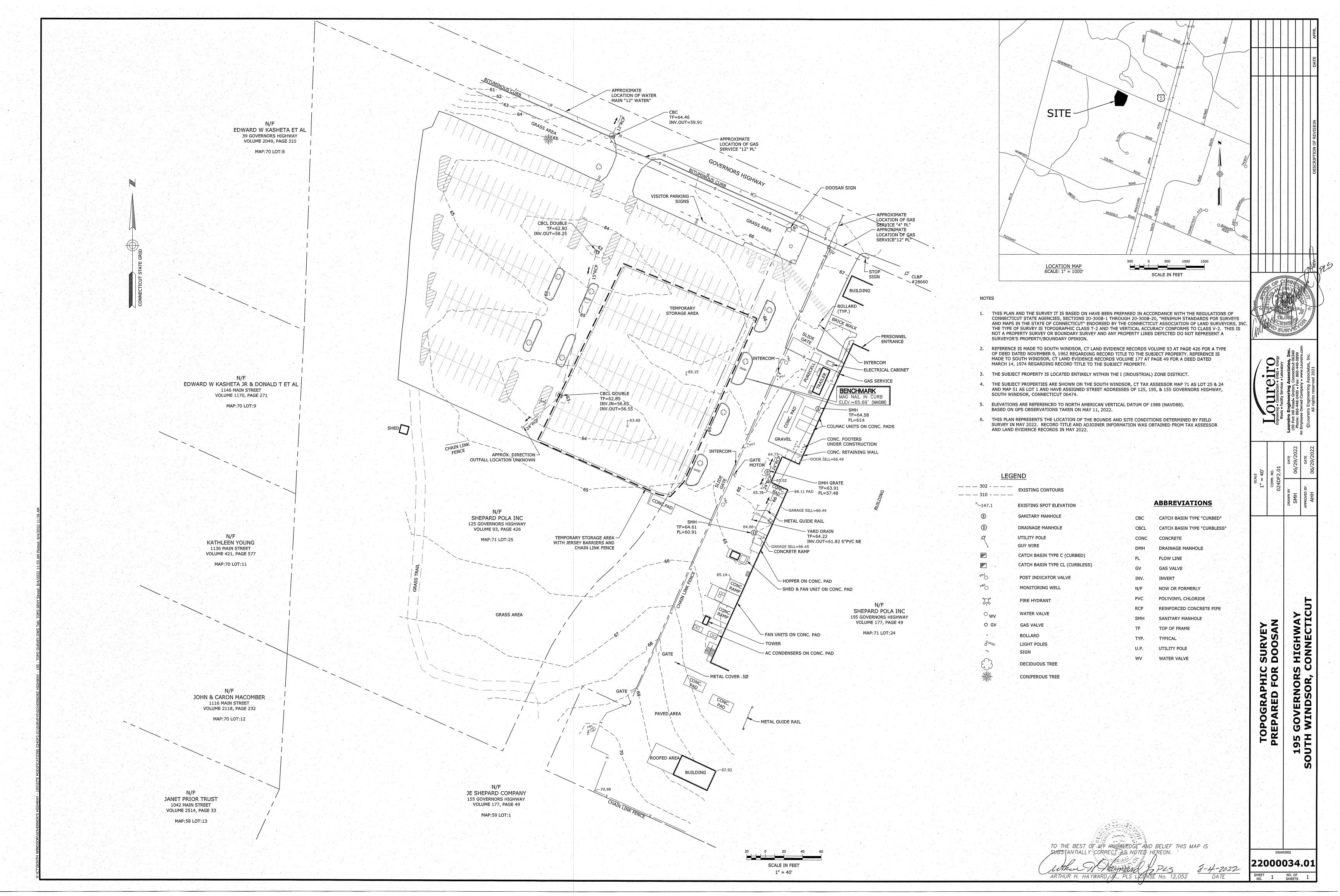
# Applicant:

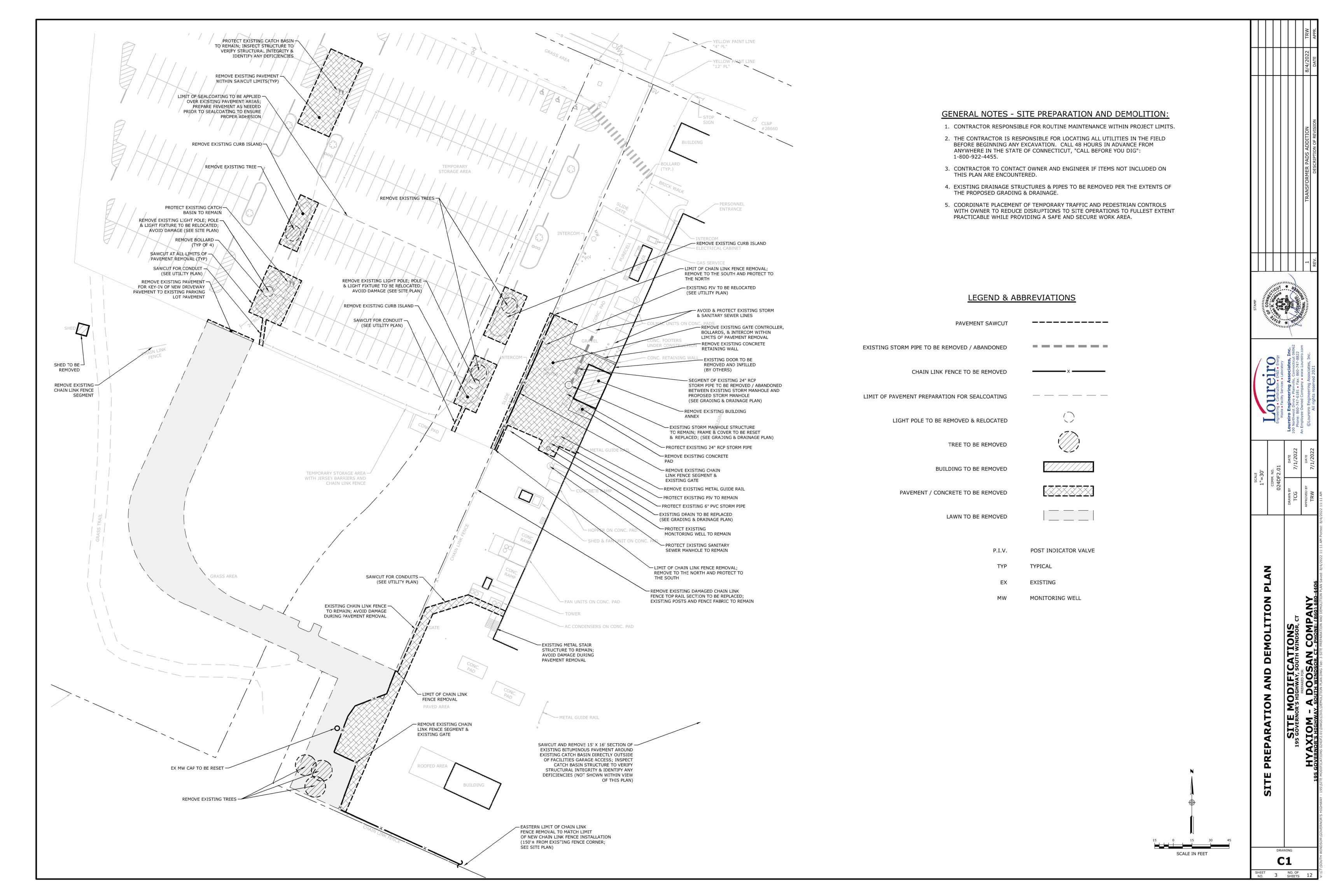
**HYAXIOM - A DOOSAN COMPANY** 195 GOVERNOR'S HIGHWAY SOUTH WINDSOR, CT 06074 (860) 680-4406

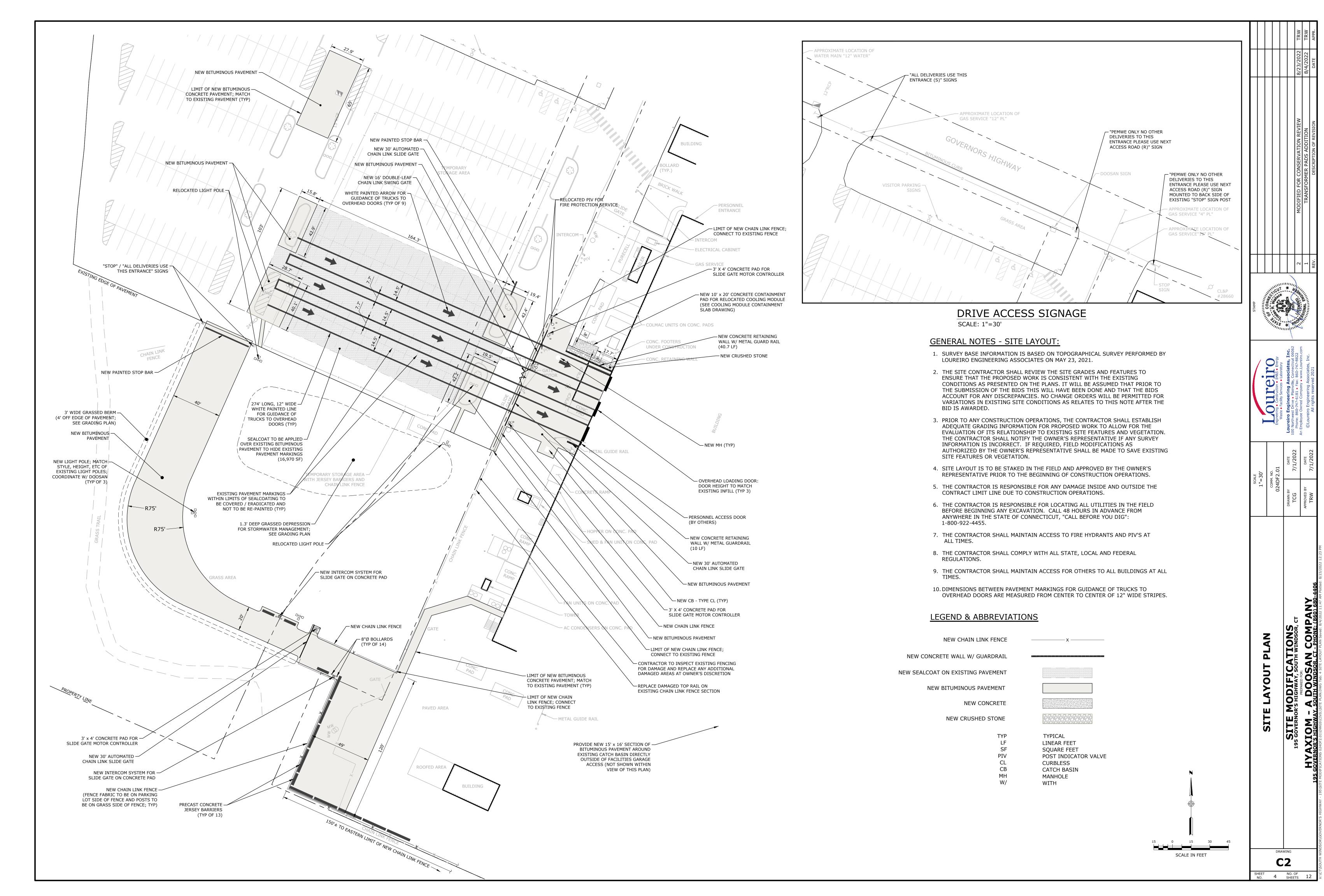


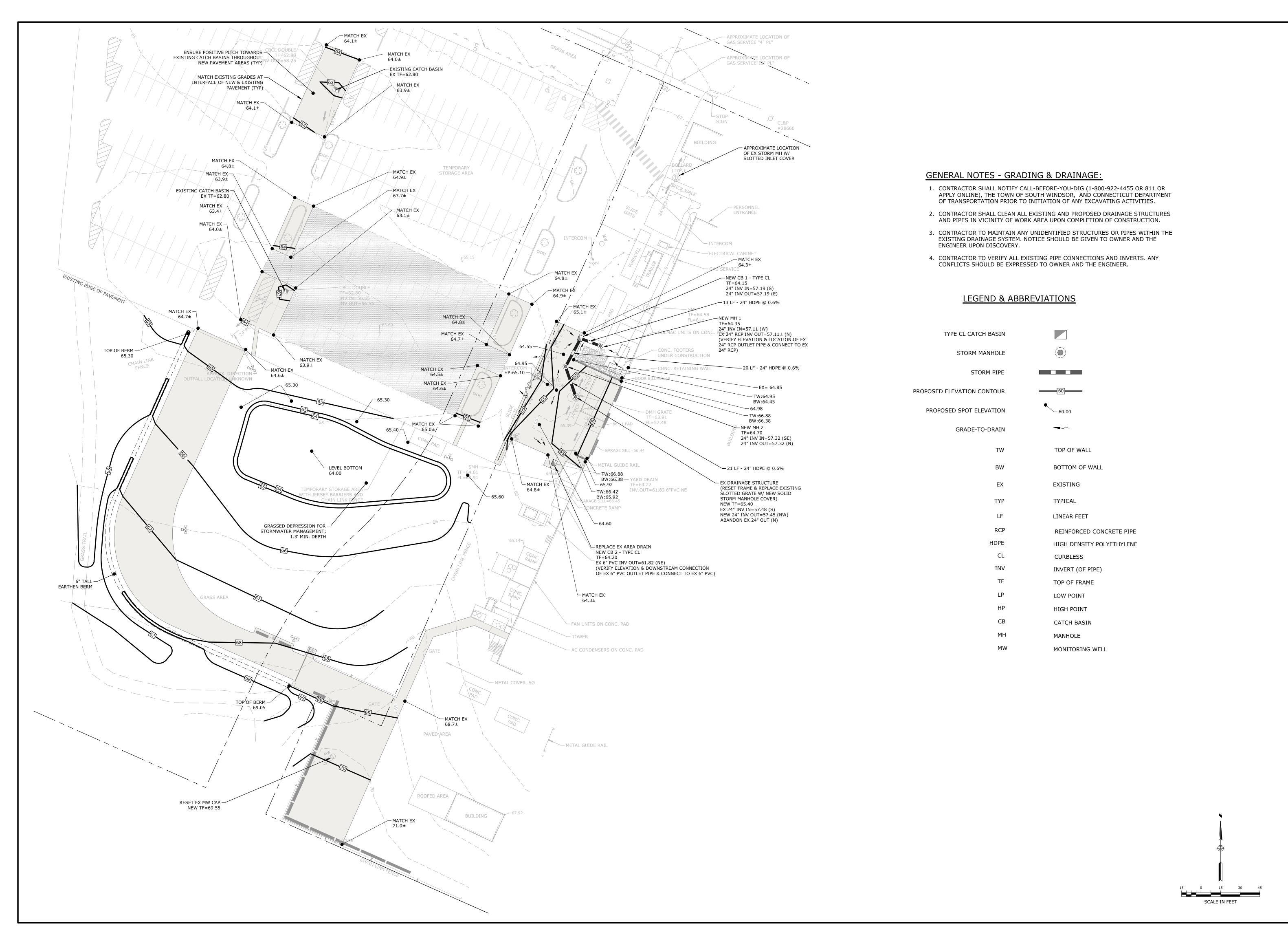


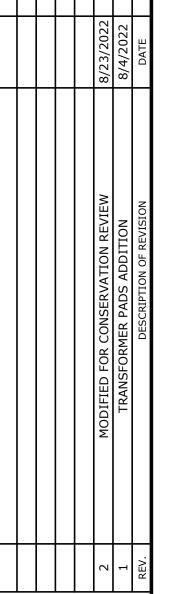
Loureiro Engineering Associates, Inc. 100 Northwest Drive • Plainville, Connecticut 06062 JOUREIRO Phone: 860-747-6181 • Fax: 860-747-8822 An Employee Owned Company • www.Loureiro.com Engineering • Construction • EH&S • Energy Waste • Facility Services • Laboratory

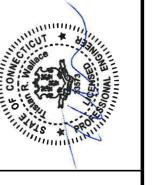












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COMM. NO.

024DF2.01

DRAWN BY

TCG

APPROVED BY

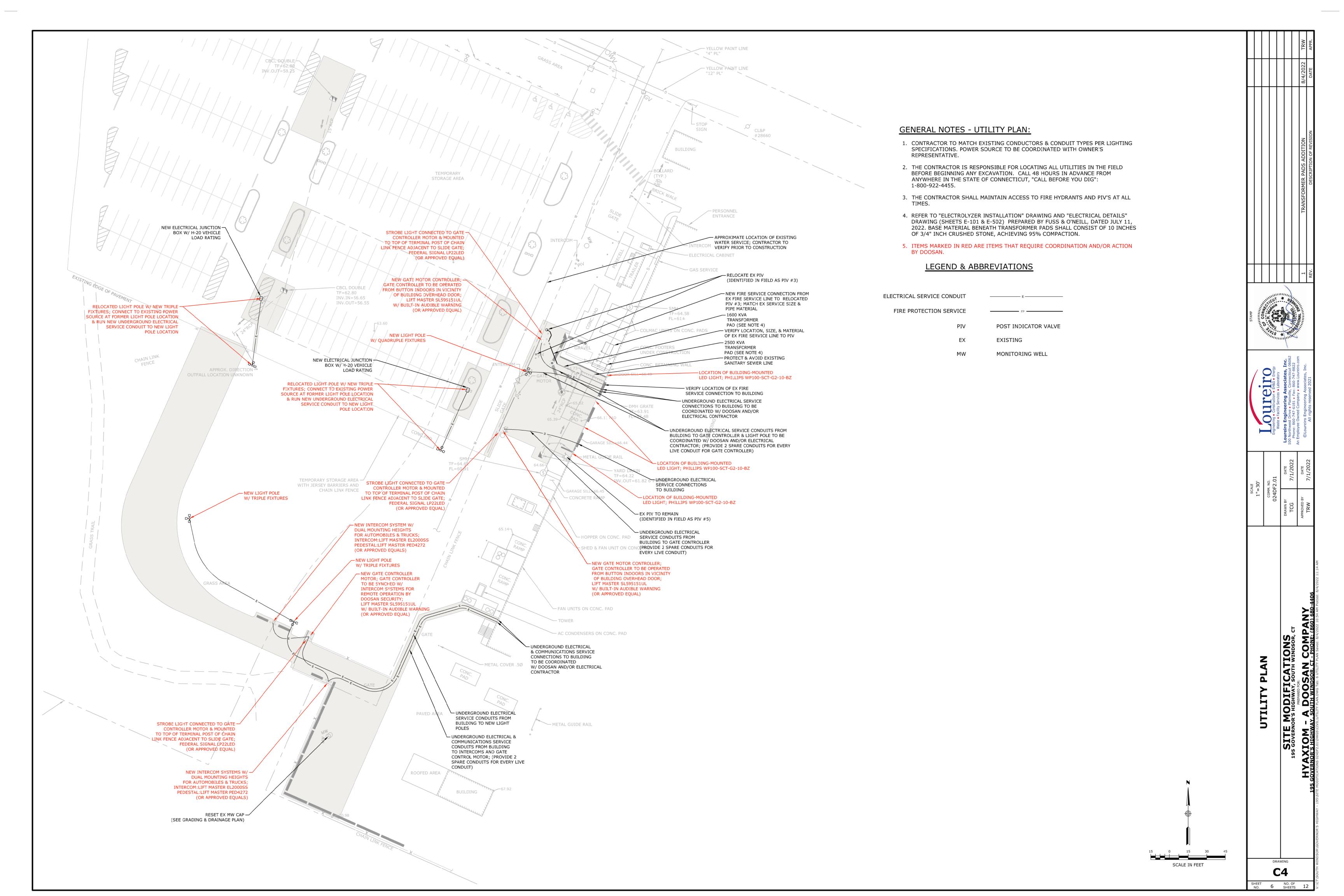
TRW

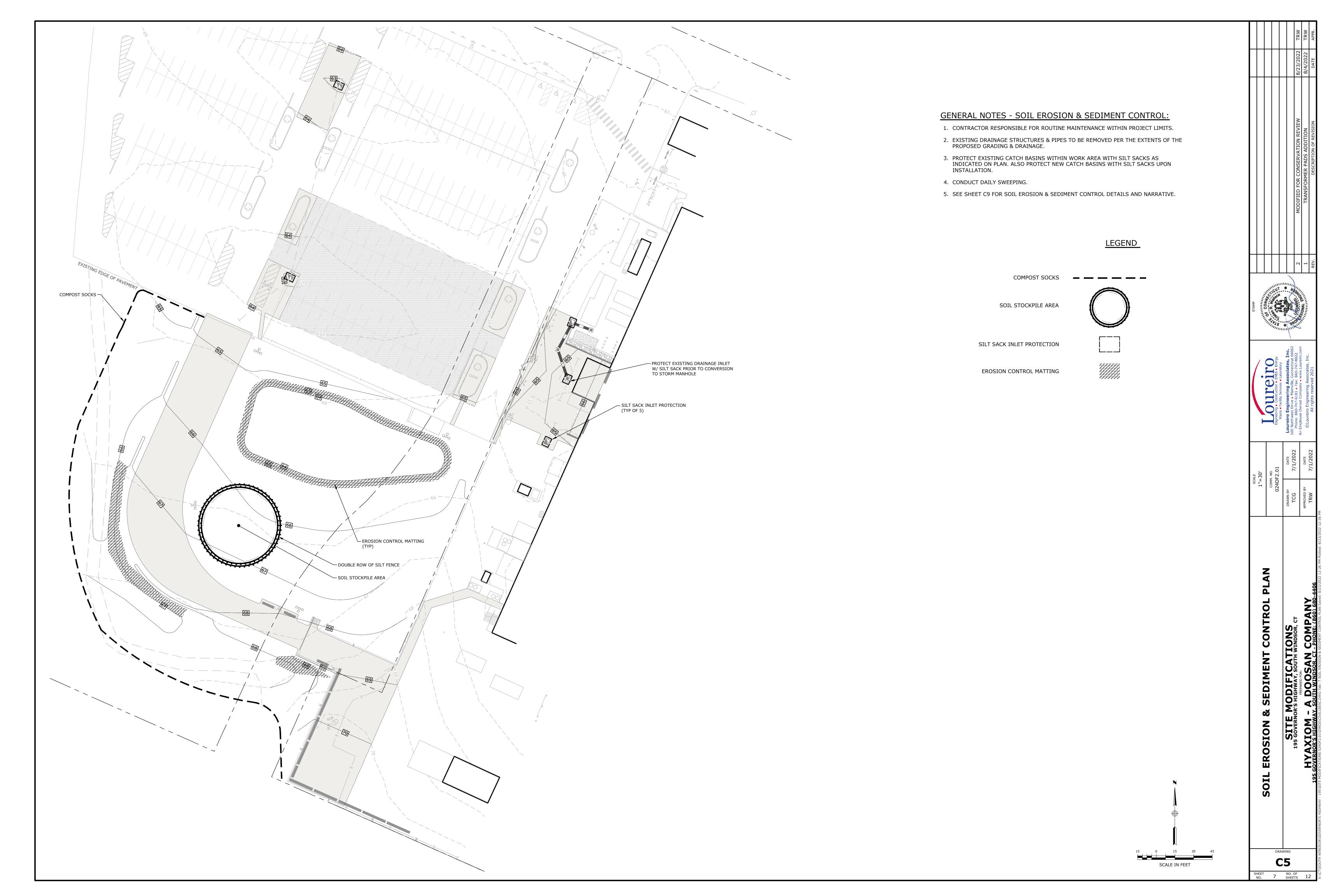
7/1/2022

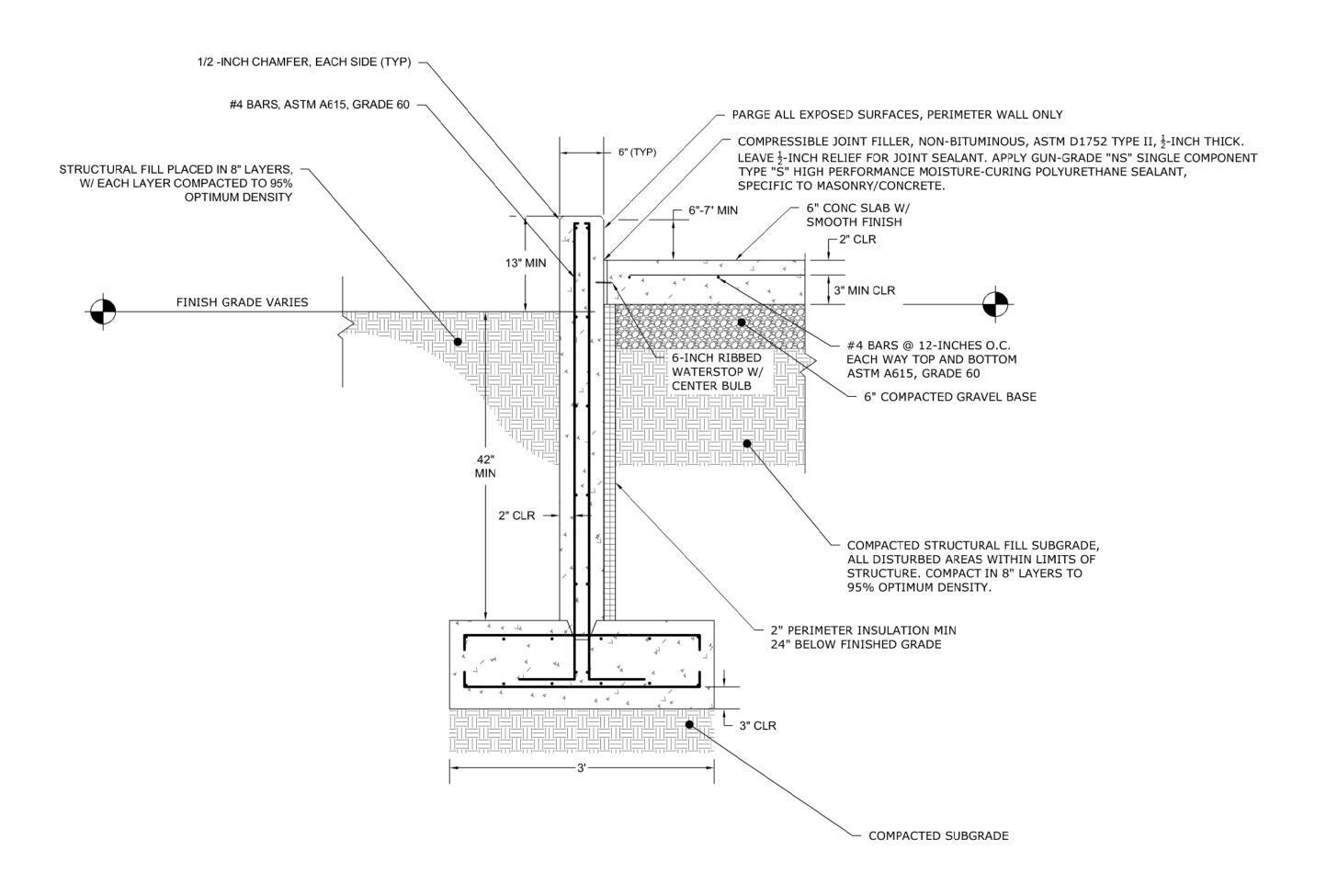
GRADING & DRAINAGE PLAN
SITE MODIFICATIONS
195 GOVERNOR'S HIGHWAY, SOUTH WINDSOR, CT
PREPARED FOR:

DRAWING

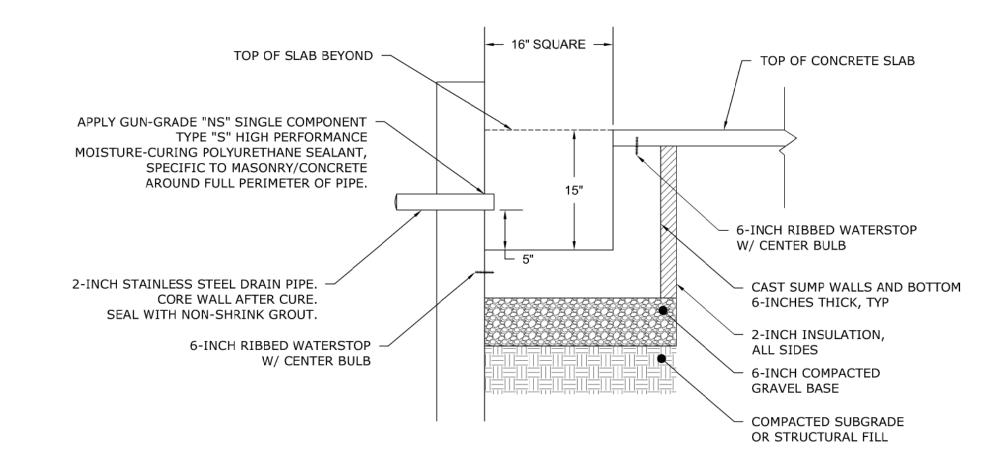
SHEET NO. 5 NO. OF SHEETS 12



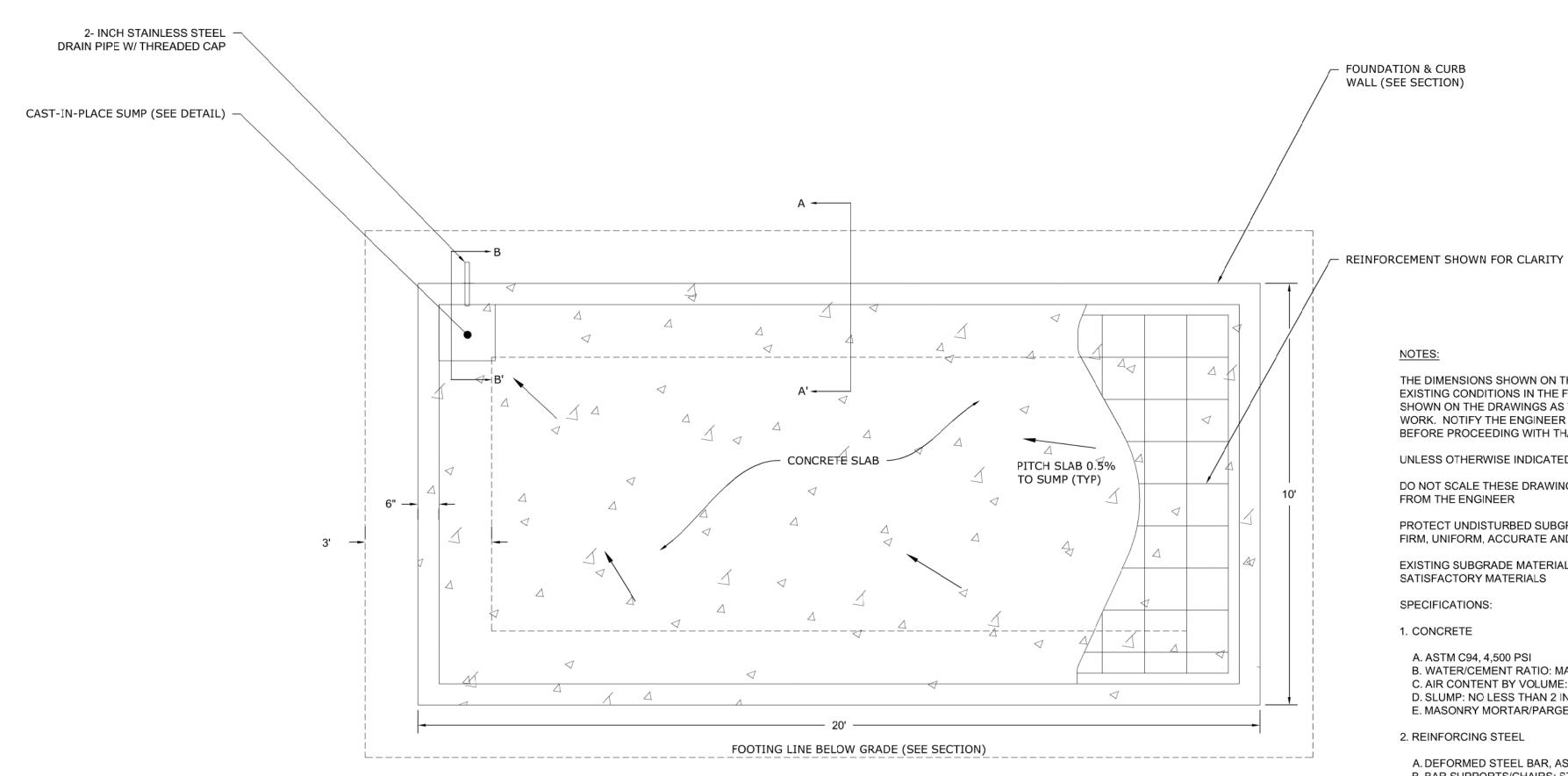




**SECTION A-A'** 



# **SECTION B-B'**



# SPECIFICATIONS:

CONCRETE

FROM THE ENGINEER

SATISFACTORY MATERIALS

A. ASTM C94, 4,500 PSI B. WATER/CEMENT RATIO: MAXIMUM 0.45.

BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.

C. AIR CONTENT BY VOLUME: 6 PERCENT ± 1 PERCENT, ASTM C231 (PRIMARY METHOD) OR ASTM C173 (SECONDARY METHOD). D. SLUMP: NO LESS THAN 2 INCHES, NOT GREATER THAN 4 INCHES, ASTM C143.

THE DIMENSIONS SHOWN ON THE PLANS, INCLUDING THE INTENDED DIMENSIONS OF THE WORK, MAY VARY FROM ACTUAL

WORK. NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS

DO NOT SCALE THESE DRAWINGS. IF THE DIMENSIONS ARE NOT CONSIDERED ADEQUATE, REQUEST ADDITIONAL INFORMATION

PROTECT UNDISTURBED SUBGRADE. PROVIDE FOR FINAL FINE GRADING, AND COMPACTION OF AREAS AS REQUIRED TO FORM A

EXISTING SUBGRADE MATERIAL, WHICH WILL NOT READILY COMPACT AS REQUIRED, SHALL BE REMOVED AND REPLACED WITH

UNLESS OTHERWISE INDICATED, LINES ARE PARALLEL OR PERPENDICULAR TO LINE FROM WHICH THEY ARE MEASURED.

FIRM, UNIFORM, ACCURATE AND UNYIELDING SUBGRADE AT REQUIRED ELEVATIONS AND TO REQUIRED LINES.

EXISTING CONDITIONS IN THE FIELD. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASUREMENTS TO VERIFY ALL DIMENSIONS SHOWN ON THE DRAWINGS AS WELL AS OTHER DIMENSIONS HE MAY DEEM APPROPRIATE TO FACILITATE THE COMPLETION OF THE

E. MASONRY MORTAR/PARGE MOTAR: ASTM C270, TYPE N.

2. REINFORCING STEEL

A. DEFORMED STEEL BAR, ASTM A615, GRADE 60, SIZE AS SHOWN. B. BAR SUPPORTS/CHAIRS: STEEL OR PLASTIC, SIZED PER REINFORCING REQUIREMENTS. CMU SHALL NOT BE USED. C. LAP LENGTH: 40D.

**C6** 

MODIFICATIONS

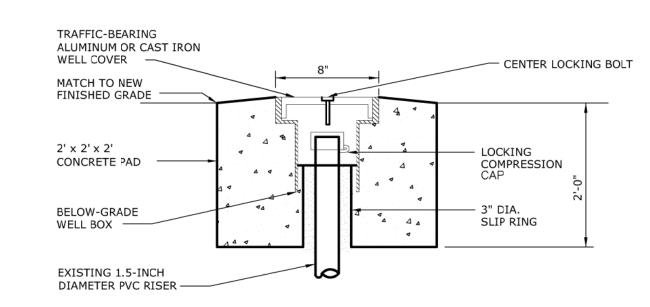
RIS HIGHWAY, SOUTH WINDSOR,

CONTAINM

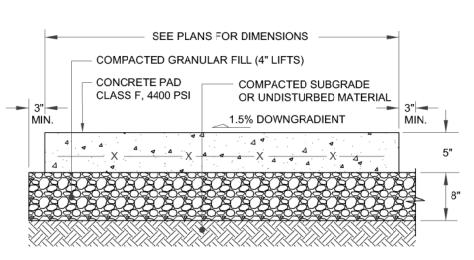
Oureing Construction FHSS Energ

CONTAINMENT SLAB PLAN VIEW

SCALE: 1/2" = 1'-0"



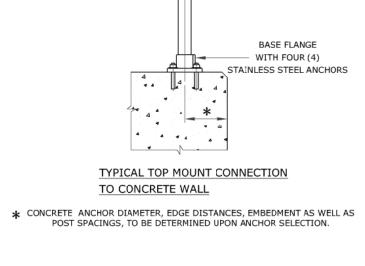
### **MONITORING WELL CAP DETAIL**

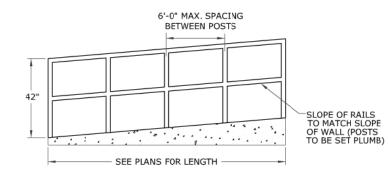


### **CROSS-SECTION**

- SEE PLAN FOR WIDTHS AND LOCATIONS.
   ALL CONCRETE PADS TO BE TREATED WITH VEXCON POWER SEAL 40 AS PER
- MANUFACTURER INSTRUCTIONS. 3. REFER TO AGENCY CONSTRUCTION STANDARDS AND SPECIFICATIONS.

## TYPICAL CONCRETE PAD DETAIL





### **HANDRAIL DETAILS**

TYPICAL HANDRAIL DETAIL

References: Developed from Thompson Fabricating, LLC Tarrant, AL (website). and ADA/IBC Public Access/OSHA Handrail Details-Nov. 2016

# TYPICAL RETAINING WALL SECTION

6'-6"

➤ BATTON ATTACHMENT

-2' x 2' x 2' STONE AT EACH

FILTER FABRIC

### 1. RETAINING WALL TO BE DESIGNED BY STRUCTURAL ENGINEER AS

- SHOP DRAWING SUBMITTAL. 2. CONCRETE RETAINING WALLS TO BE UTILIZED ON ALL INTERIOR SITE WALLS.
- 3. 4' GUARD FENCE TO BE INSTALLED ANYWHERE WALL IS GREATER THAN 4' (SEE LANDSCAPE PLAN SET FOR DETAILS).

# TOP TENSION WIRE (TYP.) BRACE POST LINE POST ── 12" MIN. CONCRETE 10" MIN. CONCRETE →

STONE VENEER TO BE PLACED ON WALL,

VENEER SHALL MATCH EXISTING VENEER

#5 @ 12" HORIZ. BARS -

VERT. BARS #5 @ 1'-6" ——

PAVEMENT/ GRADE —

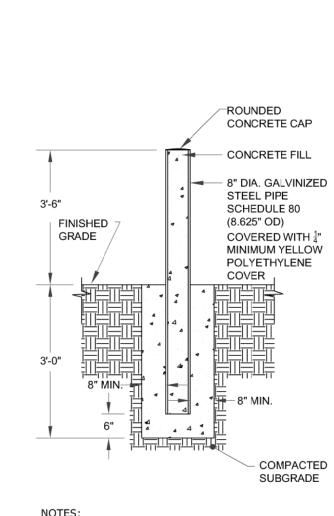
#5 @ 9"—

7 - #5 EQUALLY SPACED ON EACH

3" COVER -

- 1-5/8" BRACES.
- 5. NEW FENCING TO MATCH HEIGHT OF EXISTING ADJACENT FENCING.

**CHAIN LINK FENCE** 



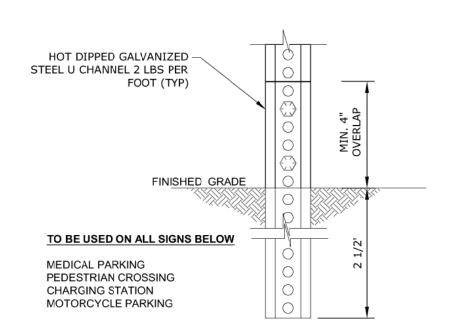
- GEOMEMBRANE (TYP.)

-6" COMPACTED

CONCRETE: CLASS C 3300 PSI COMPRESSIVE STRENGTH AT 28 DAYS

### **BOLLARD DETAIL**

Reference: Comm. No. 77SP5.01, Commerce Drive, Fairfield, Ct, Nov. 2015 and 51LA3.01, Farmington Senior Living, Scott Swamp Rd., Farmington, CT, Jan. 2014.



BREAKWAWAY SIGN POST DETAIL

NOT TO SCALE



PEMWE ONLY NO OTHER **DELIVERIES** TO THIS **ENTRANCE** PLEASE USE NEXT ACCESS ROAD CUSTOM SIGN:

12" X 18"

(WHITE BACKGROUND W/

BLACK GRAPHICS)

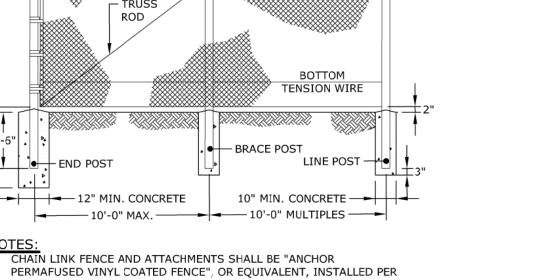


STOP SIGN: R1-1; 31-0552-30"

DETAILS ON DOT SHEET TR-1208\_02. SIGN DETAILS

NOT TO SCALE

NOTE: SIGN POSTS TO CONFORM WITH

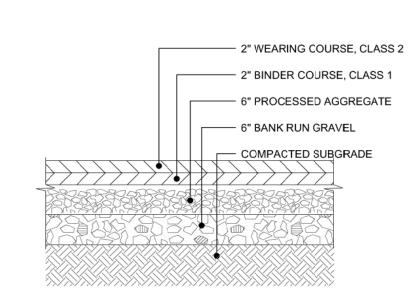


NOTES:

1. CHAIN LINK FENCE AND ATTACHMENTS SHALL BE "ANCHOR PERMAFUSED VINYL COATED FENCE", OR EQUIVALENT, INSTALLED PER STANDARDS. FABRIC TO BE 9 GA, 2" MESH WITH 6 GAGE TOP TENSION WIRE.
 LINE POSTS SHALL BE 1-7/8" DIAMETER WITH 2-3/8" END POSTS AND

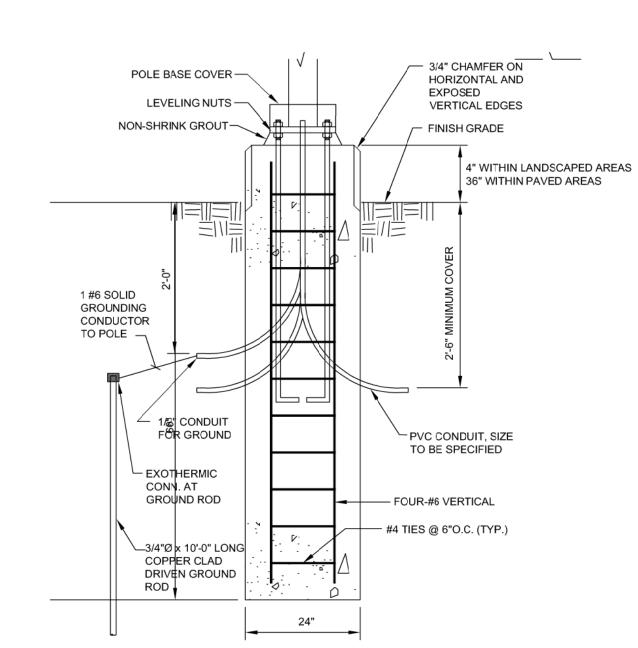
4. CONCRETE POST BASES, 3000 P.S.I. CONCRETE, DOMED TO SHED WATER

**BITUMINOUS CONCRETE PAVING** 



DRAWING

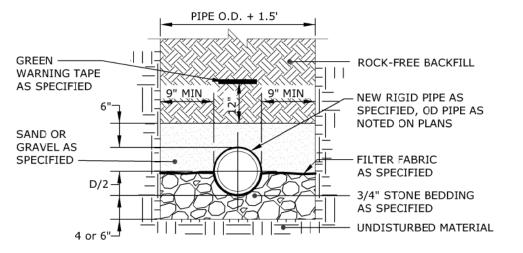
NO. OF SHEETS 12



CONCRETE SHALL BE 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.

- REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. LAP ALL BARS 36 BAR DIAMETERS.
- 4. GRIND AND GROUT CLEAN ALL EXPOSED CONCRETE SURFACES TO OBTAIN UNIFORM FINISH APPEARANCE.
- 5. BASE CAN BE CAST-IN-PLACE OR PRECAST AT CONTRACTOR'S OPTION.

NOT TO SCALE



1. FILTER FABRIC SHALL BE PLACED TO PREVENT FINES IN BACKFILL FROM ENTERING THE BEDDING MATERIAL.

2. SEE TYPICAL STORM/SANITARY SEWER TRENCH DETAILS FOR ADDITIONAL TRENCH DETAILS.

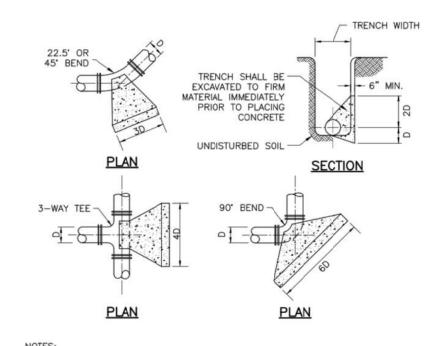
### TYPICAL STORM PIPE BEDDING TRENCH DETAIL TYPICAL P/C UTILITY TRENCH

OTHERWISE NOTED.

4. METHOD OF MANUFACTURE SHALL BE WET CAST.

SUMP SECTION SHALL BE MONOLITHIC.

6. DESIGN LOAD SHALL BE AASHTO H-20.



THRUST RESTRAINTS SHALL BE EITHER RESTRAINED JOINTS FOR DUCTILE IRON PIPE OR THRUST BLOCKS. THRUST BLOCKS ARE NOT THE PREFERRED METHOD OF THRUST RESTRAINT AND WILL ONLY BE PERMITTED IN SPECIAL CASES AS DIRECTED BY THE ENGINEER OR BY THE DISTRICT.

2. THRUST BLOCKS SHOULD ONLY BE USED WHEN SOIL CONDITIONS ARE STABLE. 3. ANCHORS SHALL BE BASED ON MAXIMUM ALLOWABLE WATER PRESSURE OF 150 PSI.

### CONCRETE THRUST BLOCKS FOR 12- INCH AND SMALLER MAINS (MDC DETAIL)

NOT TO SCALE

STANDARDS

PROCESSED
STONE BASE - WATER MAIN

NOT TO SCALE

**WATER MAIN TRENCH** (MDC DETAIL)

### SEE STORM MANHOLE FRAME COPOLYMER OPENING 24"Ø TYPICAL & COVER FOR DETAIL-POLYPROPYLENE (30"Ø OR 36" Ø AVAILABLE) ▼ PLASTIC — WITH MAXIMUM OF 4 COURSES OF BRICK ∠1/2" GRADE 60 STEEL REINFORCEMENT SECTION A-A' ECCENTRIC CONE HEIGHT VARIES PRECAST CONCRETE 3' , 4' & 5' (W/24"Ø OPENING) MANHOLE STEPS 14"----SEE DETAIL SIDE VIEW END VIEW HEIGHT VARIES 1', 2', 3' & 4' COPOLYMER POLYPROPYLENE PLASTIC 5" WALL MH DIA. SEE NOTE 2 STEEL REINFORCED MANHOLE STEP FOR CONCRETE MANHOLES PACK ANNULAR SPACE WITH -KNOCKOUTS FOR PIPES NON-SHRINK 4" MIN. FROM TOP & -CONCRETE OR GROUT -BOTTOM OF BASE -BRICK INVERT (TYP. BOTH - CONCRETE OR **HEIGHT VARIES** SIDES) BRICK & MORTAR INVERT MIN. 4 4 4 4 4 4 PROVIDE ADEQUATE

BEDDING AS REQUIRED

BY CT DOT FORM 817

 $1\frac{1}{2}$ " Ø HANDLING HOLES,

2 REQUIRED

**→** 3'-5" DIA. →

2'-3 ½" DIA.

→1'-11" DIA:→

→ 5" → 2'-7" DIA. → 5" →

SECTION A-A'

HOLES, 8 EA.

 $\frac{3}{4}$ " RAISED LETTERS AS REQUIRED

STORM MANHOLE FRAMES AND COVERS SHALL CONFORM TO CTDOT FORM 817 STANDARD SPECIFICATION FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION AND CT DOT

CHANNELS MAY BE SHAPED IN CONCRETE BASE OF MANHOLE OR FORMED USING BRICK OR

A FRAME OF 3'-3" WITH 4" FLANGE SHALL BE USED WHEN THE TOP DIAMETER OF A PRECAST

STANDARD STORM MANHOLE FRAME & COVER DETAIL

NOT TO SCALE

CONE IS LESS THAN 3'-6". ALL OTHER FRAME DIMENSIONS SHALL REMAIN THE SAME.

BY STATE, LOCAL OR FEDERAL

STANDARDS

HIGHWAY STANDARD SHEETS HW-507\_10, AS AMENDED.

ALL DIMENSIONS SUBJECT TO MANUFACTURING TOLERANCES.

PLAN

MASONRY, UNLESS OTHERWISE DIRECTED.

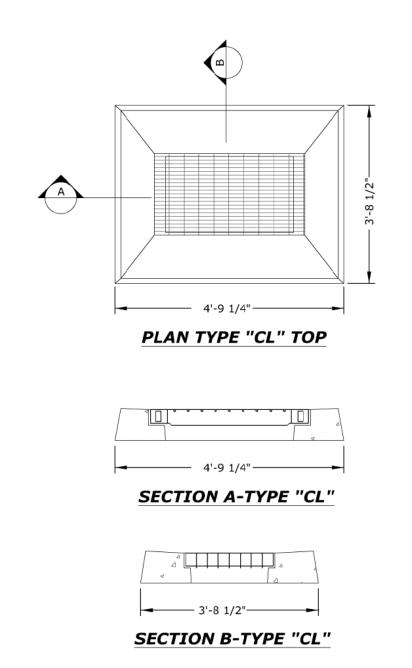
NON-SKID LUGS —

- PRECAST CONCRETE MANHOLE COMPONENTS SHALL CONFORM TO CTDOT STANDARD SHEET HW-507\_10 AS AMENDED. 4', 5' OR 6' PRECAST CONCRETE BASE DIAMETERS MAY BE USED WHEN REQUIRED DUE TO SIZE OR NUMER OF PIPES AT THE MANHOLE. PRECAST REDUCERS WILL BE PLACED ABOVE THE 5' AND 6' BASES AS DIRECTED BY THE ENGINEER. WALL THICKNESS SHALL INCREASE 1"
- JOINT SEALANT SHALL BE BUTYL RUBBER MASTIC TYPE SEAL THAT CONFORMS TO LATEST AASHTO SPECIFICATION M-198 & MEETS FEDERAL SPECIFICATION SS-S-0021(210-A).
- REINFORCING STEEL DEFORMED BARS ARE NOT SHOWN AND SHALL CONFORM TO LATEST CTDOT STANDARDS & SUPPLEMENTALS AND ASTM SPECIFICATION A615, GRADE 60, MINIMUM COVER 2", UNLESS OTHERWISE NOTED.
- 5. ALL PIPE OPENINGS SHALL BE CLOSED USING MATERIALS WHICH CONFORM TO STATE OF CT STANDARD SPECIFICATIONS SECTION
- REINFORCING STEEL WELDED WIRE FABRIC SHALL CONFORM TO LATEST ASTM SPECIFICATION A185.
- CONCRETE COMPRESSIVE STRENGTH SHALL BE MINIMUM 4000 PSI AT 28 DAYS, SELF COMPACTING CONCRETE MIX. MANHOLE STEPS SHALL MEET LATEST OSHA REGULATIONS, (29 CFR 1910.27), SECTION 16 OF ASTM SPECIFICATION C478 AND SECTION 10 OF ASTM SPECIFICATION C497
- WHEN SPECIFIED, MANHOLES ARE TO BE COATED WITH BAY OIL, "EBONY" 10. METHOD OF MANUFACTURE SHALL BE WET CAST.
- BASE SECTION IS MONOLITHIC. 12. MANHOLE INTERIOR DIAMETER

FOR EACH 1' OF INSIDE DIAMETER INCREASE.

- 5'-0" FOR 42" PIPE DIAMETER
- 4'-0" FOR 8" TO 36" PIPE DIAMETERS 6'-0" FOR 48" PIPE DIAMETER.

### STANDARD PRECAST CONCRETE STORM MANHOLE DETAIL



1. CATCH BASIN TOPS, CURBS AND GRATE COMPONENTS SHALL CONFORM TO CTDOT FORM 817 STANDARD SPECIFICATION FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION AND CTDOT HIGHWAY STANDARD

SHEETS HW-507\_07 AND HW-507\_08, AS AMENDED. REINFORCING STEEL DEFORMED BARS ARE NOT SHOWN AND SHALL CONFORM TO LATEST CTDOT STANDARDS & SUPPLEMENTAL AND ASTM SPECIFICATION A615, GRADE 60, MINIMUM COVER 2" UNLESS OTHERWISE NOTED.

ALL STEEL, EXCEPT REINFORCING BARS, SHALL BE GALVANIZED IN CONFORMANCE WITH SECTION M06.03 OF CONNECTICUT STANDARD SPECIFICATIONS.

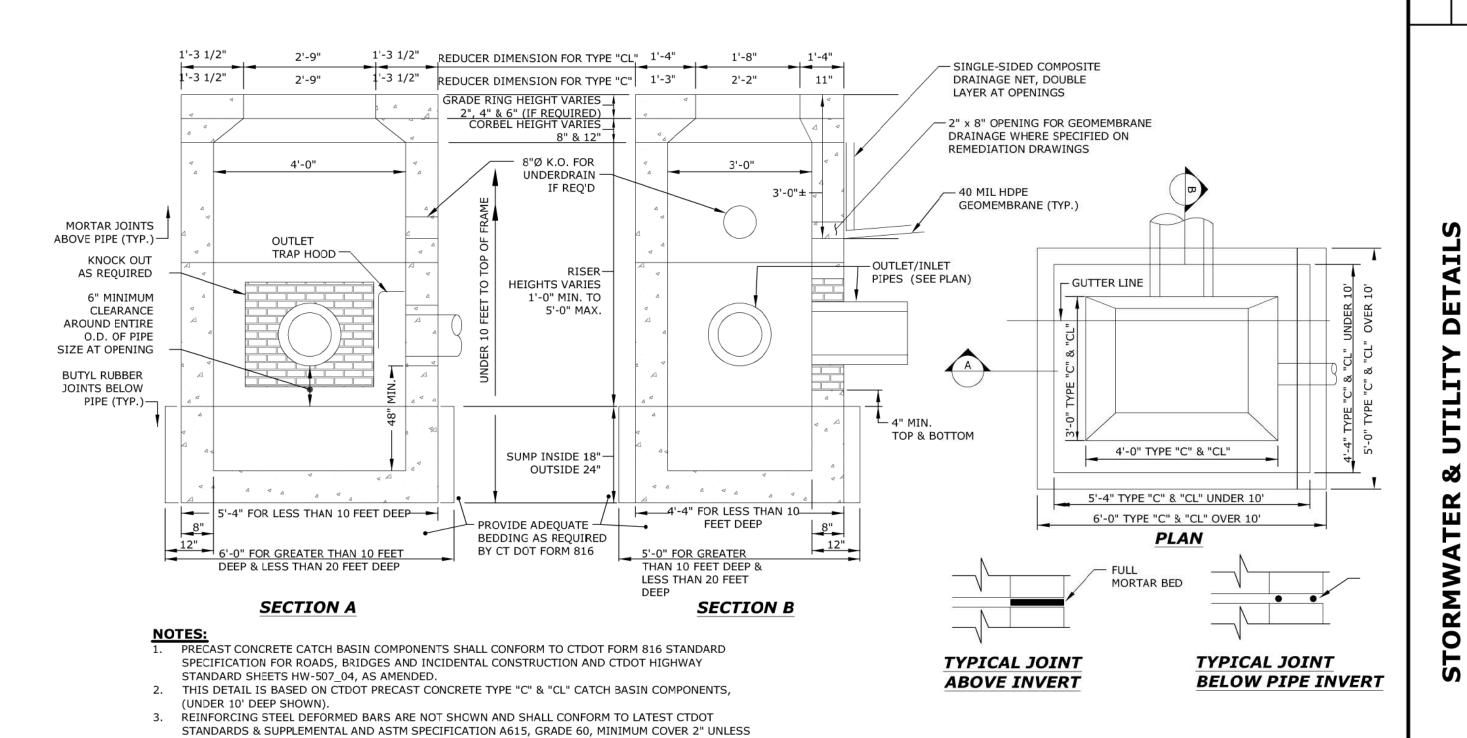
TYPE "C-L" CATCH BASIN TOP DETAILS

References: Previous Loureiro standards, updated with 2002 CT Guidelines for Erosion and Sediment Control, DEEP Bulletin 34, and MDC Standard Details 2017, and CT DOT 2017 standards.

MIN.

- PAVEMENT SECTION

(SEE DETAIL)



- 2" SCH40 PVC CONDUITS FOR

- BEDDING COURSE

(COMPACTED)

COMMUNICATIONS & 3" SCH40 PVC

CONDUITS FOR ELECTRIC (PROVIDE

QUANTITY AS REQUIRED FOR SPECIFIED

1) CONTRACTOR IS RESPONSIBLE FOR

PRIOR TO BACKFILL.

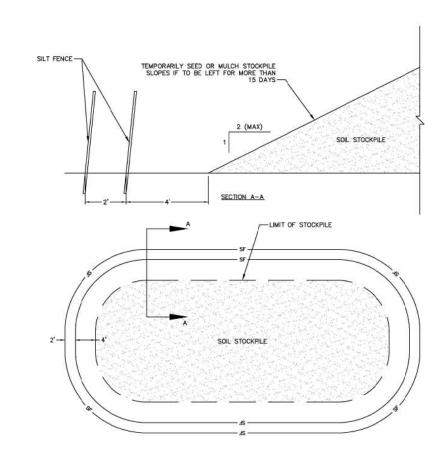
EXCAVATION, BEDDING, CONDUIT & BACKFILL.

2) PLACE DETECTABLE WARNING TAPE IN TRENCH

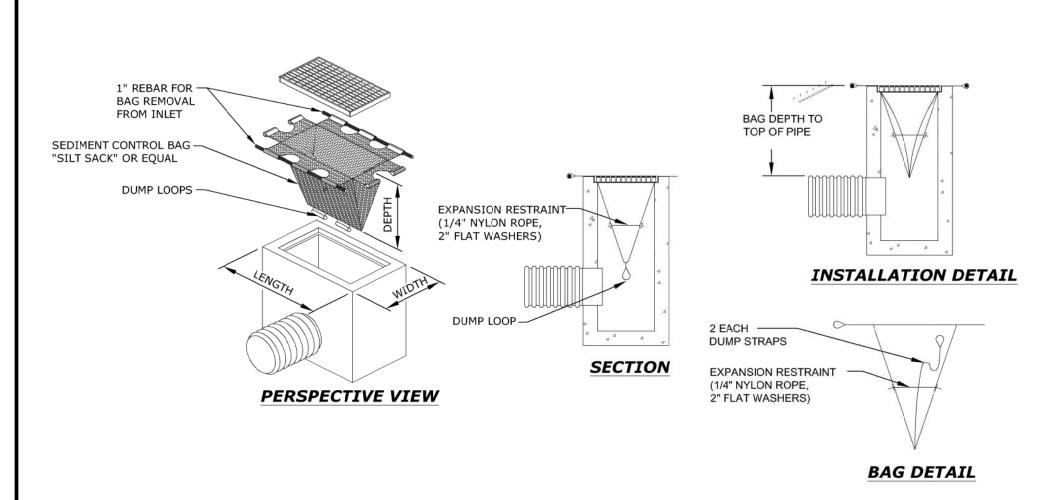
TYPE "C" & "C-L" PRECAST CONCRETE CATCH BASIN DETAIL

•

Reference: CT DOT Highway Standards, Sheet HW-507\_04 & HW-507\_10, CT DOT Form 817 and (Manhole Steps) The Metropolitain District Sewer Standard Details Fig. 5-34, dated Jan. 2017.



TEMPORARY STOCK PILE DETAIL



### NOTES:

- 1. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE CORRECT SIZE DEVICE FOR EACH INLET. FOR NON-STANDARD CATCH BASINS AND INLETS, THE CONTRACTOR SHALL MEASURE DIMENSIONS IN THE FIELD AND ORDER THE APPROPRIATE SIZE(S).
- 2. THE INLET SEDIMENT CONTROL DEVICE SHALL BE OF HIGH FLOW DESIGN (200 GAL/MIN/FT), AS PER THE MANUFACTURER'S SPECS.
- 3. THE SEDIMENT CONTROL DEVICE SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND CLEANED AND MAINTAINED A MINIMUM ONCE PER MONTH OR WITHIN THE 48 HOURS FOLLOWING A STORM EVENT. THE FILTER SHALL BE REPLACED OR CLEANED WHEN THE BAG BECOMES HALF FULL. THE FILTER SHALL BE CLEANED IN A MANNER WHICH ENSURES THAT ALL SEDIMENT REMAINS ON SITE.
- 4. SUBSTITUTION OF A SHEET OF FILTER FABRIC PLACED OVER THE OPENING OF THE INLET IS NOT
- 5. RECESSED CURB INLET CATCH BASINS MUST BE BLOCKED WHEN USING FILTER FABRIC INLET SACKS, SIZE OF FILTER INLET SACK TO BE DETERMINED BY MANUFACTURER.
- 6. THE FILTER DEVICE SHALL BE MANUFACTURED BY ACF ENVIRONMENTAL OR APPROVED EQUAL.

TCH BASIN FILTER (SILT SACK) DETAIL

SELF CLEANING)

MAX.
HEIGHT 30"

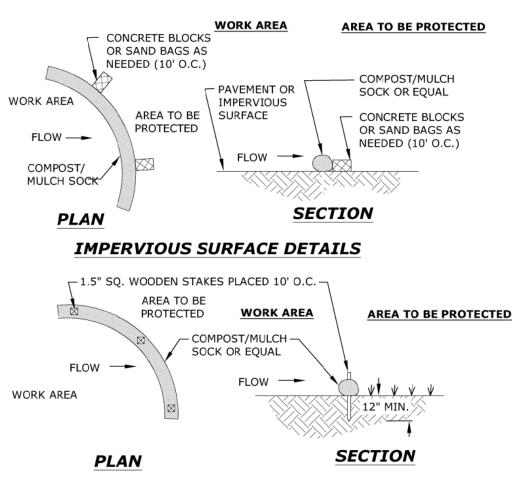
SILT FENCE

1. ALL SILT FENCES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND CLEANED & MAINTAINED A MINIMUM OF ONCE PER MONTH OR WITHIN 48 HOURS OF A SIGNIFICANT STORM EVENT.

2. THE FILTER CLOTH SHALL BE CLEANED IN A MANNER WHICH ENSURES THAT ALL SEDIMENT COLLECTED REMAINS ON-SITE.

(POST TO BE ANGLED 10° UPSLOPE FOR STABILITY &

ALL SILT FENCING & ALTERNATIVE FILTERS SHALL BE FURNISHED, INSTALLED AND MAINTAINED IN ACCORDANCE WITH 2002 CT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROLS, AS AMENDED AND PER MANUFACTURERS INSTRUCTIONS.



### PERVIOUS SURFACE DETAILS

 A COMPOST/MULCH SOCK MAY BE USED AS AN ALTERNATIVE TO THE TYPICAL HAY BALE OR SILT FENCE SESC CONTROL BARRIERS WHERE APPROVED BY ENGINEER.

 COMPOST/MULCH SOCK SHALL BE EQUAL TO SILTSOXX<sup>™</sup> MANUFACTURED BY FILTREX<sup>®</sup> INTERNATIONAL OF GRAFTON, OHIO.

3. FILTER MEDIA TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

- 4. ALL COMPOST MULCH SOCKS SHALL BE FURNISHED, INSTALLED AND MAINTAINED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND WITH THE 2002 CT
- GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, AS AMENDED.

  5. SHOULD IT BECOME NECESSARY TO PROTECT THE SIDE SLOPES OF DISTURBED AREAS HAVING STEEP SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL FROM EXCESSIVE SOIL EROSION OR SLOPE FAILURE DUE TO UNUSUAL HEAVY RAINFALL EVENTS, POOR SOIL ADHESION, OR OTHER EXTRAORDINARY CONDITIONS DURING CONSTRUCTION, THE CONTRACTOR MAY BE REQUIRED TO INSTALL AN 'EROSION CONTROL BLANKET' AND/OR COMPOST MULCH SOCKS AS SHOWN ON THE DETAILS ON THIS DRAWING(S). OTHER ACCEPTABLE MEANS TO ADEQUATELY PROTECT THE

CONTROL BLANKET AND/OR COMPOST MULCH SOCKS AS SHOWN ON THE DETAILS ON THIS DRAWING(S). OTHER ACCEPTABLE MEANS TO ADEQUATELY PROTECT THE SLOPES FROM EXCESS SOIL EROSION, SUCH AS THE INSTALLATION OF REVERSE SLOPE BENCHES IN ACCORDANCE WITH CHAPTER 5-2 OF THE 2002 CT GUIDELINES FOR SOIL EROSION & SEDIMENT CONTROL, MAY ALSO BE CONSIDERED BY THE ENGINEER TO HELP ENSURE AGAINST A POSSIBLE SLOPE FAILURE CAUSED BY EXCESS SOIL EROSION FROM HEAVY RAINFALL EVENTS.

COMPOST MULCH SOCK ON PERVIOUS AND IMPERVIOUS SURFACE DETAILS

### SOIL EROSION AND SEDIMENT CONTROL NOTES

ALL APPLICABLE REGULATIONS AND REQUIREMENTS OF THE STATE OF CONNECTICUT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION (DEEP) AND THE LOCAL LAND USE REQUIREMENTS SHALL BE ADHERED TO INCLUDING THE PLACEMENT OF THE PROPOSED SE&SC BARRIERS AS SPECIFIED HEREIN. WHEN THE CONSTRUCTION WORK IS COMPLETED, THE CONTRACTOR SHALL CLEAN THE SE&SC BARRIERS AND RESTORE THE NATURAL DRAINAGE AREAS AFFECTED BY THEIR OPERATIONS TO THEIR ORIGINAL CONDITION UNLESS OTHERWISE NOTED.

PRIOR TO CONSTRUCTION, ALL SE&SC BARRIERS SHALL BE PLACED TO CONFINE SEDIMENT AS SHOWN ON DRAWINGS AND WHERE OTHERWISE REQUIRED BASED ON THE CONTRACTOR'S MEANS/METHODS AND CONSTRUCTION SEQUENCING. ALL SE&SC BARRIERS SHALL BE LEFT IN PLACE AND MAINTAINED UNTIL THE WORK HAS BEEN COMPLETED AND SURFACES STABILIZED.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MONITOR THE CONDITION OF THE SE&SC STRUCTURES. IF THE EFFECTIVENESS OR INTEGRITY OF ANY STRUCTURES IS FOUND TO BE INSUFFICIENT OR IF THE STRUCTURES ARE DAMAGED IN ANY WAY, THE CONTRACTOR SHALL MAKE WHATEVER REPAIRS ARE NECESSARY TO ENSURE THAT PROPER EROSION CONTROL IS MAINTAINED. MONITORING OF THE EROSION CONTROL STRUCTURES IS PARTICULARLY IMPORTANT FOLLOWING PERIODS OF RAINFALL. ALL REPAIRS OF EROSION CONTROL STRUCTURES SHALL BE MADE BY THE CONTRACTOR AS SOON AS THE DAMAGE IS

IF ADDITIONAL SE&SC CONTROL STRUCTURES ARE NECESSARY TO MINIMIZE EROSION AND SEDIMENTATION, AS DETERMINED IN THE FIELD, THE CONTRACTOR SHALL INSTALL SAID ADDITIONAL STRUCTURES AS REQUIRED.

IN ADDITION TO THE ABOVE GENERAL PROVISIONS, THE CONTRACTOR SHALL COMPLY WITH THE FOLLOWING SPECIAL REQUIREMENTS:

- 1. LAND DISTURBANCE SHALL BE KEPT TO A MINIMUM; RESTABILIZATION SHALL BE SCHEDULED AS SOON AS PRACTICABLE FOLLOWING CONSTRUCTION.
  PROJECT SEQUENCING WILL BE NECESSARY TO MINIMIZE SE&SC CONTROL LIABILITIES. THE CONTRACTOR SHALL SEQUENCE HIS OPERATIONS SO AS TO
  PROVIDE MANAGEABLE WORK AREAS WITH LIMITED OPPORTUNITY FOR SOIL EROSION TO OCCUR.
- 2. ALL GRADED AREAS ARE TO BE COVERED AS SOON AS POSSIBLE AFTER CONSTRUCTION WORK IS COMPLETED. INTERIM SEEDING, MULCHING AND/OR EROSION CONTROL BLANKETS MAY BE REQUIRED THROUGHOUT CONSTRUCTION FOR STABILIZATION OF DISTURBED AREAS. WOODCHIPS AND MULCH MAY BE USED THROUGHOUT THE ENTIRETY OF THE OPERATION EXCEPT IN AREAS DESIGNATED FOR NEW PAVEMENT.
- 3. ALL OTHER AREAS AFFECTED BY CONSTRUCTION AND NOT TO BE FILLED ARE TO BE RESTORED TO ORIGINAL GRADE AS SHOWN ON THE DRAWINGS.
- 4. FOR SPECIFIC DETAILS ON THE DESIGN, APPLICATION AND INSTALLATION OF THE EROSION AND SEDIMENTATION CONTROL STRUCTURES THE CONTRACTOR
- SHALL REFER TO THE CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, DATED MAY 2002, AS AMENDED OR OTHERWISE REPLACED.

  5. PERIMETER SE&SC BARRIERS FOR THIS SITE INCLUDE PROVISIONS FOR THE USE OF FILTER SOCKS WHERE APPROPRIATE. THE CONTRACTOR SHALL INSPECT REGULARLY TO ENSURE THE PLACEMENT IS MAINTAINED.
- 6. ALL SE&SC BARRIERS SHALL BE INSTALLED AS SHOWN ON THIS DRAWING AND AT THE TOE OF ALL SLOPES LOCATED DOWN GRADIENT OF THE CONSTRUCTION WORK.
- 7. SEDIMENT REMOVED FROM SE&SC BARRIERS AND STRUCTURES SHALL BE DISPOSED OF IN A MANNER WHICH IS CONSISTENT WITH THE INTENT OF THE
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING THE EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH LOCAL REQUIREMENTS. THE CONTRACTOR'S RESPONSIBILITY INCLUDES THE INSTALLATION AND MAINTENANCE OF ALL REQUIRED SE&SC CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN, AND NOTIFYING THE LOCAL LAND USE OFFICES OF ANY TRANSFERS OF THIS RESPONSIBILITY.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE LOCAL LAND USE AGENCY AND OTHER APPROPRIATE AUTHORITIES AT LEAST 72 HOURS PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY.
- 10. THE CONTRACTOR SHALL USE APPROVED METHODS AND MATERIALS FOR PREVENTION OF DISPERSION OF DUST INCLUDING MISTING, CHEMICAL APPLICATION AND/OR MULCH SURFACING.
- 11. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES DAILY DURING CONSTRUCTION AND AFTER EACH SIGNIFICANT RAIN STORM EVENT. DAMAGE SHALL BE REPAIRED IMMEDIATELY.
- 12. ANY REQUIRED DEWATERING SHALL INCORPORATE THE USE OF FILTER BAGS ON DISCHARGE ENDS.

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR OWNERSHIP OF ALL SOIL EROSION AND SEDIMENT CONTROLS AS NECESSARY TO PROTECT THIS SITE. DURING THE PROGRESS OF CONSTRUCTION, INTERIM EROSION CONTROLS MAY BE NECESSARY BASED ON THE CONTRACTOR'S MEANS, METHODS AND SEQUENCING. THE EROSION CONTROL MEASURES PRESENTED ON THESE PLANS REPRESENT THE MINIMUM CONTROLS DEEMED NECESSARY BASED ON THE EXPECTED FINAL PROJECT GRADES AND FEATURES. INTERIM MEASURES REQUIRED TO STABILIZE THE SITE DURING CONSTRUCTION SHALL BE INSTALLED BY THE CONTRACTOR AS NEEDED BASED UPON HIS ASSESSMENT OF THE SITE THROUGH HIS OWN SITE INSPECTIONS AND OBSERVATIONS. ALL CONTRACTOR-PROVIDED SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE DESIGNED AND INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL AS AMENDED OR OTHERWISE REPLACED.

IN THE EVENT THAT A RAIN EVENT OCCURS AND THE CONTRACTOR PROVIDED SE&SC CONTROLS FAIL TO MAINTAIN THE SITE IN A STABILIZED CONDITION, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL REMEDIATION, MITIGATION OR OTHER DAMAGE THAT MAY OCCUR.

### STABILIZATION PRACTICES

1. TEMPORARY VEGETATIVE COVER

ALL EXPOSED AREAS THAT WILL BE INACTIVE FOR MORE THAN 30 DAYS, BUT LESS THAN ONE YEAR, AND WHICH HAVE NOT YET REACHED FINISHED GRADES SHALL RECEIVE A TEMPORARY VEGETATIVE COVER DURING THE PLANTING SEASON OF MARCH 15 TO OCTOBER 1. NOTE THAT PLANTING BETWEEN JUNE 15 AND AUGUST 1 WILL REQUIRE WATERING AS NECESSARY TO PROMOTE GROWTH. THIS TEMPORARY VEGETATIVE COVER SHALL CONSIST OF PERENNIAL RYE GRASS. THE RYE GRASS SHALL BE PLANTED AT A RATE OF 1 POUND PER 1,000 SQUARE FEET. ALSO, FERTILIZER SHALL BE APPLIED AT A RATE OF 7.5 POUNDS PER 1,000 SQUARE FEET OF 10-10-10 OR EQUIVALENT AND LIMESTONE SHALL BE APPLIED AT A RATE OF 45 POUNDS PER 1,000 SQUARE FEET. SEED BED PREPARATION AND SEEDING SHALL BE CONDUCTED AS OUTLINED IN THE STATE OF CONNECTICUT SOIL EROSION AND SEDIMENT CONTROL GUIDELINES.

### 2. TEMPORARY MULCHING

TEMPORARY MULCHING SHALL BE USED TO TEMPORARILY STABILIZE AREAS THAT WILL BE INACTIVE FOR 30 DAYS OR MORE, BUT LESS THAN 6 MONTHS, AND CANNOT BE SEEDED WITHIN THE RECOMMENDED PLANTING DATES. IN ADDITION, TEMPORARY MULCHING SHALL BE CONDUCTED IMMEDIATELY FOLLOWING TEMPORARY OR PERMANENT SEEDING IN ORDER TO AID THE GROWTH OF VEGETATION. TEMPORARY MULCH SHALL CONSIST OF STRAW OR HAY OVERLAY APPLIED AT A RATE OF 70 TO 90 POUNDS PER 1,000 SQUARE FEET (1.5 TO 2 TONS PER ACRE), OR OTHER MULCH TYPES AS APPROVED WITHIN THE STATE OF CONNECTICUT SOIL EROSION AND SEDIMENT CONTROL GUIDELINES. THIS MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MULCH BLOWER AND SHALL BE BONDED WITH A NON-ASPHALT TACKIFIER OR OTHER APPROVED METHOD IMMEDIATELY AFTER SPREADING.

### 3. PERMANENT VEGETATIVE COVER

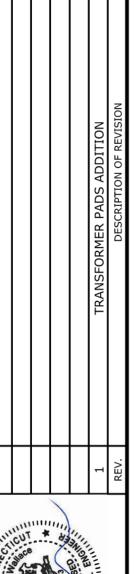
ONCE THE PLANTING SEASON BEGINS, TEMPORARY STABILIZATION MEASURES SHALL BE REMOVED AND SLOPES SHALL BE PREPARED AND SEEDED. SEEDING SHALL ONLY OCCUR BETWEEN APRIL 1 AND JUNE 1 AND AUGUST 15 AND OCTOBER 15.

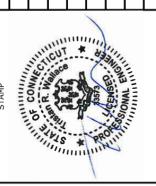
### 4. PERMANENT MULCH FOR SEED

STRAW MULCH WILL BE INSTALLED ON ALL DISTURBED SURFACES WITH SLOPES NOT EXCEEDING 10%, AFTER PLACEMENT OF FINAL COVER, TO MINIMIZE EROSION AND ALLOW GROWTH OF PERMANENT VEGETATIVE COVER.

### RECOMMENDED PROJECT SEQUENCING

- 1. PRIOR TO THE INITIATION OF CONSTRUCTION ACTIVITIES, INSTALL ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES AS SHOWN ON
- 2. EXISTING PARKING AREAS AND DRIVE AISLES TO REMAIN IN OPERATION FOR AS LONG AS POSSIBLE DURING WORK ACTIVITIES. INITIAL PHASE OF WORK SHALL INCLUDE RE-GRADING, INSTALLING UTILITIES AND NEW SITE FEATURES, AND ESTABLISHING PAVEMENT SUBGRADE WITHIN THE EXISTING LAWN AREA SOUTH OF THE EXISTING PARKING LOT. SECOND PHASE OF WORK SHALL INCLUDE REMOVAL OF EXISTING PAVEMENT, INSTALLATION OF UTILITIES AND NEW SITE FEATURES, AND MODIFICATIONS TO EXISTING UTILITIES WITHIN AREAS OF EXISTING PAVEMENT, WITH DISRUPTIONS TO SITE OPERATIONS MINIMIZED TO THE FULLEST EXTENT PRACTICABLE. THE PAVING OF ALL NEW ASPHALT AREAS WILL BE COMPLETED LAST AND WILL BE STAGED AND PERFORMED AS QUICKLY AS POSSIBLE TO MINIMIZE CLOSURE TIME.
- 3. SEEDING AND FINAL STABILIZATION MEASURES FOR REMAINING DISTURBED AREAS THAT ARE NOT DESIGNATED FOR NEW PAVEMENT OR CONCRETE COVER.
- 4. REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES.





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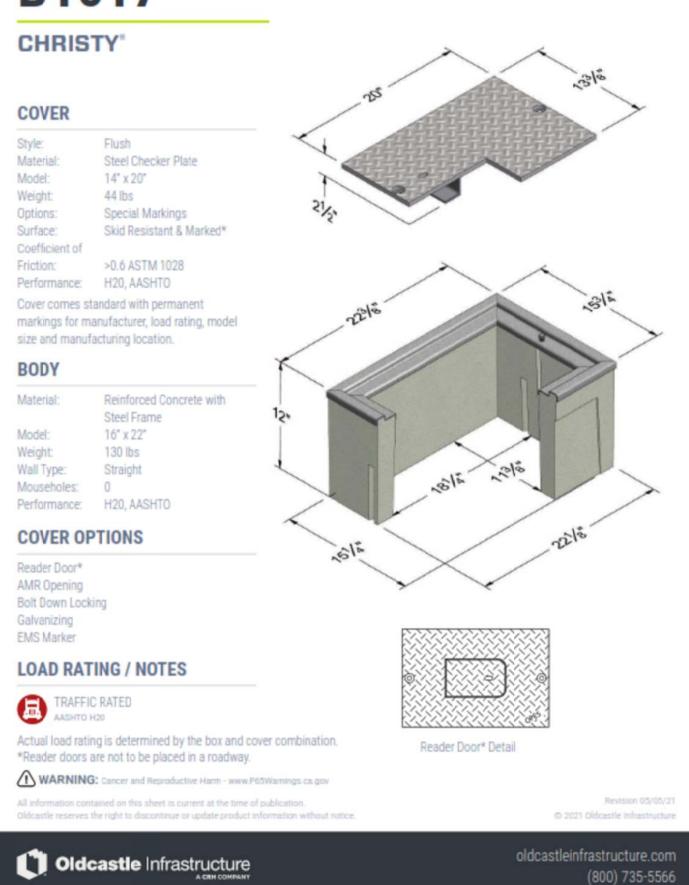
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### LIFTMASTER 02103 INDOOR OPENER BUTTON

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**H20 RATED ELECTRICAL JUNCTION BOX DETAIL** 



### LIFTMASTER SL595151UL GATE CONTROLLER



NOTE: LIGHT COLOR TO BE AMBER.

FEDERAL SIGNAL LP22LED STROBE LIGHT



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