TOWN OF EAS PLANNING & ZONI DATE: 7/10/17 APPLICATI	NG COMMISSION
1. APPLICATION TYPE: (CHECK ALL THAT APPLY)	*COMPLETE SECTION ON PAGE 2 OR 3
SITE PLAN APPLICATION	RESOURCES REMOVAL AND FILLING
SITE PLAN MODIFICATION SPECIAL	USE PERMIT*
✓ FLOOD HAZARD – MAJOR*	MAP CHANGE*
FLOOD HAZARD – MINOR* TEXT AM	ENDMENT*
SOIL EROSION AND SEDIMENTATION - Cumulative dis	sturbed area (sq. ft.):
2. SITE AND PROJECT INFORMATION	A local of the second of the second of the
PROPERTY ADDRESS: 125 Riverside Drive, East Hart	ford, CT ZONE: <u>I3/ DDD1</u>
ASSESSORS MAP AND LOT: 10-2	PARCEL SIZE (ACRES OR SQ. FT.): 1.79 ac
PROJECT NAME: Riverside Drive Outfall	
PROJECT DESCRIPTION (ATTACH ADDITIONAL SHEETS IF	NEEDED):
See General Narrative	
3. PROPERTY OWNER INFORMATION	n an
1 5. I FRUFERIT UWINER INFURIMATION	CHECK IE PRIMARY CONTACT
	CHECK IF PRIMARY CONTACT
OWNER OF RECORD: Goodwin College, Inc.	
OWNER OF RECORD: <u>Goodwin College</u> , Inc. OWNER ADDRESS: <u>1 Riverside Drive</u> , East Hartford,	CT 06118
OWNER OF RECORD: Goodwin College, Inc. OWNER ADDRESS: 1 Riverside Drive, East Hartford, OWNER PHONE: 860-727-6756	CT 06118 SEMAIL: BHarrell@goodwin.edu
OWNER OF RECORD: Goodwin College, Inc. OWNER ADDRESS: 1 Riverside Drive, East Hartford, OWNER PHONE: 860-727-6756 OWNER SIGNATURE: What Hartford,	CT 06118 EMAIL: <u>BHarrell@goodwin.edu</u> PRINT NAME: <u>Bryant Harrell</u>
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2

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- COMPLETE ONLY THE SECTIONS THAT APPLY TO YOUR APPLICATION TYPE -

A. SPECIAL USE PERMIT

(ATTACH ADDITIONAL SHEETS IF NEEDED)

1) Applicable Section of the Zoning Regulations:

2) Describe how the proposed Special Use Permit relates to the Plan of Conservation and Development:

3) Describe how the proposed Special Use Permit will benefit the Town of East Hartford:

B. FLOOD HAZARD ZONE – MAJOR DEVELOPMENT OR MINOR DEVELOPMENT

1) Name of associated watercourse: Connecticut River

2) Total amount of land (in sq. ft.) to be affected within the:

- a. Flood Hazard Zone: 1600 +/- sf
- b. Floodway: 1500 +/- sf
- c. Floodway fringe:
- 3) Enumerate methods of compliance with Sections 601.10, 601.11, and 601.12 of the Zoning Regulations:

Construction of outfall proposes few changes in grade, limited to the outlet location only. As such, there will be minimal or negligle impacts anticipated to wetlands, waters, wildlife and to the River (floodplain/floodway).

a said the

General Narrative Planning & Zoning Commission Application for Permit Riverside Drive Outfall

July, 2017

The 125 Riverside Drive site is located on the west side of Riverside Drive abutting the Connecticut River. Sites west of Riverside Drive historically were used as an oil terminal. For many years, 125 Riverside Drive has operated as a food/entertainment establishment for the public. Goodwin College Inc. purchased the property and intends to redevelop the site to support future campus expansion.

The purpose of the project is to provide for expansion of the existing storm sewer system to address existing capacity issues within the existing system, accommodate additional runoff from future development on the east side of Route 2 in this area, and to relocate the existing outfall to accommodate redevelopment of the 125 Riverside Drive property.

The proposed improvements to the site include construction of a 54" reinforced concrete storm sewer system with a 72" outfall to the Connecticut River, which will replace an existing 36" outfall to the south of the new outfall, and connect to and receive runoff from an older 36" storm sewer pipe located within Riverside Drive and also from a recently installed 36" storm pipe within Riverside Drive and Ensign Street. Upon completion, the existing 36" outfall would be abandoned.

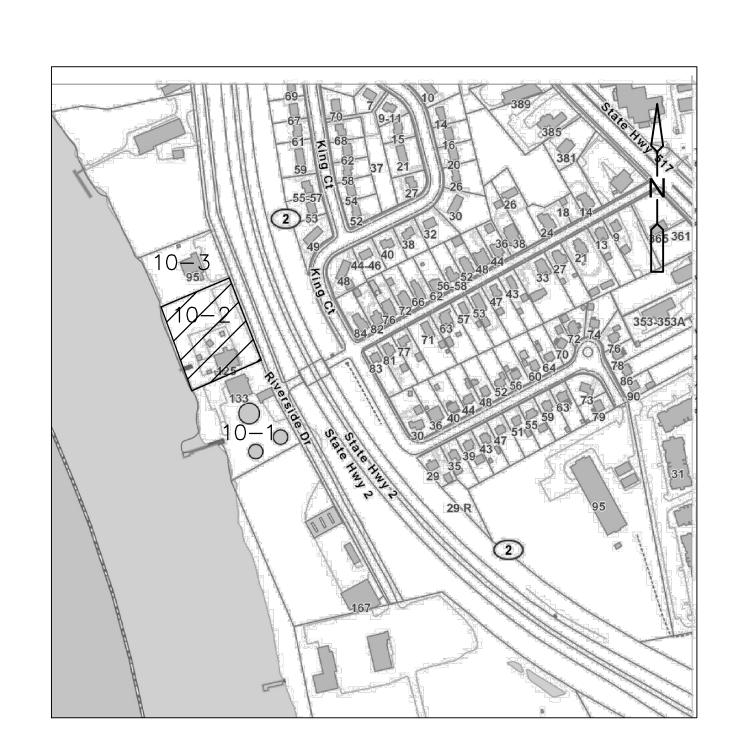
The proposed project is limited in nature as to the extents of work. There will be few changes in grade, limited to the outlet location only. As such, there will be minimal or negligible impacts anticipated to wetlands, waters, wildlife and to the River.

Construction activities include installation of temporary erosion and sediment controls (hay bales/silt sacks/silt fence). Trees/brush will be removed as required to perform the work. Root structures are to be left intact. Trenches will be excavated, with drainage structures installed and backfilled, starting at the outfall and working up-gradient. Open trench excavation will be limited to the amount of pipe that can be installed that day. Open cut to be accomplished using excavators, bull-dozers, dump trucks (top of hill). Upon completion, in all areas other than steep slopes, 6" of topsoil will be placed and seeded. Areas within steep slopes will have 10" of clean topsoil (free of invasive plant seeds) placed as recommended in the REMA Wetland Assessment and Impact Analysis report. Other recommendations contained in this report were integrated into the design plans.

The DEEP has reviewed the plans, which have been revised to incorporate comments made by federal agencies, including the Army Corp. of Engineers, and has issued a permit for this application.

The tentative schedule is to begin construction the fall of 2017, and should be completed by the spring of 2018.





	ITE - PROPERTY OF IN COLLEGE INC
MAP-LOT	PROPERTY ADDRESS
10-2	125 RIVERSIDE DRIVE

	ABUTTING PROP	ERTY OWNERS	
MAP-LOT	PROPERTY ADDRESS	OWNER NAME	OWNER ADDRESS
10-1	133 RIVERSIDE DRIVE	GOODWIN COLLEGE, INC.	1 RIVERSIDE DRIVE EAST HARTFORD, CT 06118
10-3	95 RIVERSIDE DRIVE	THE HARTFORD CANOE CLUB	75 RIVERSIDE DRIVE EAST HARTFORD, CT 06118

INSPECTION NOTES

- 1. THE DEVELOPER SHALL NOTIFY THE TOWN OF EAST HARTFORD ENGINEERING DIVISION 24 HOURS PRIOR TO BEGINNING ANY STORM DRAINAGE, ROADWAY PREPARATION, PAVING, SIDEWALK, CURBING, STREET LINE MONUMENTATION, PROPERTY CORNER PINS, ETC., TO SCHEDULE INSPECTIONS. THE DIVISION CAN BE REACHED BETWEEN 8:30 A.M. - 4:30 P.M. AT 291-7380.
- 2. THE TOWN SHALL BE NOTIFIED IN WRITING AT LEAST 2 DAYS IN ADVANCE OF THE PRE-CONSTRUCTION MEETING BETWEEN THE CONTRACTOR AND THE ENGINEER.

PLANNING & SITE PL	EAST HARTFORD ZONING COMMISSION AN CERTIFICATE APPROVAL
APPROVAL DATE	
EXPIRATION DATE	
	CHAIRMA

GOODWIN COLLEGE ONE RIVERSIDE DRIVE EAST HARTFORD, CT

RIVERSIDE DRIVE OUTFALL EAST HARTFORD, CT **PROJECT NUMBER** 1885 JULY 10, 2017

CD-1

PLANNING & ZONING APPLICATION

APPLICATION FOR:

X FLOOD HAZARD ZONE - MAJOR DEVELOPMENT

PREPARED FOR

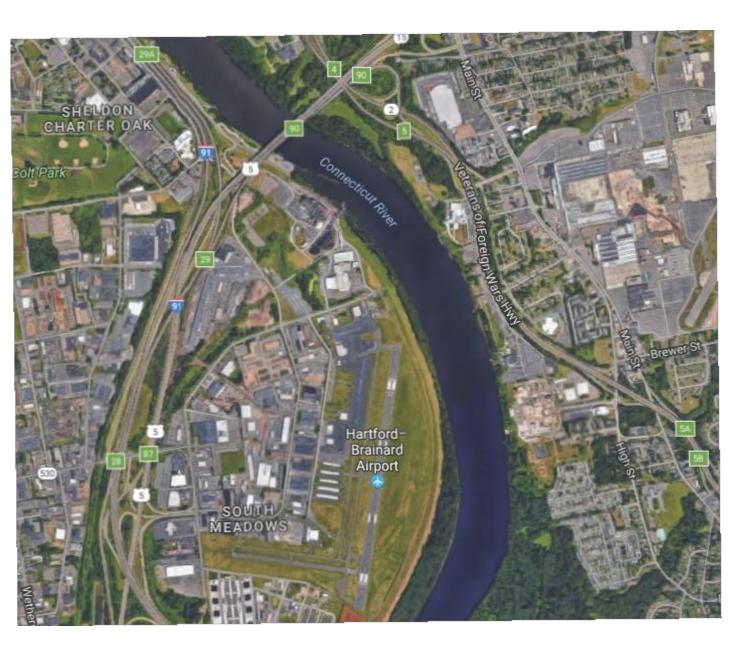




40 Cold Spring Road • Rocky Hill, CT 06067 Phone 860.436.4901 • Fax 860.436.4953

LIST OF DRAWINGS

	COVER SHEET
GN-1	GENERAL NOTES AND LEGEND
1 OF 1	PROPERTY AND TOPOGRAPHIC SURVEY
DP-1	SITE REMOVAL PLAN
EP-1	EASEMENT PLAN
ES-1	EROSION & SEDIMENTATION CONTROL PLAN
SP-1	SITE LAYOUT PLAN
SP-2	PROFILE (STA. 0 - 1+50)
SP-3	PROFILE (STA. 1+50 - 7+22)
SP-4	OUTFALL PLAN
- CD-3	DETAILS



LOCATION MAP

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REV. NO.	DATE	DRWN	СНКД		REMAR	<s< td=""><td></td><td>PROJECT NO.: _ DESIGNED BY: _ DRAWN BY: SHEET CHK'D B CROSS CHK'D E APPROVED BY: . DATE:</td><td>X X Y: <u>GBS</u> BY: X X</td><td></td></s<>		PROJECT NO.: _ DESIGNED BY: _ DRAWN BY: SHEET CHK'D B CROSS CHK'D E APPROVED BY: . DATE:	X X Y: <u>GBS</u> BY: X X	

LEGEND (EXISTING)

(NOT ALL SYMBOLS MAY BE LISED)

DEPICTED ON THESE DRAWINGS MAY CHANGE CABLE UTILITY COMPANY.

IN ACCORDANCE WITH THE TOWN OF EAST COMPANY REQUIREMENTS, AND AS SPECIFIED ON

JECT TO INSPECTION PRIOR TO BACKFILLING IN UTILITY COMPANY AND/OR THE REQUIREMENTS

THE STATE OR TOWN OF EAST HARTFORD'S TION SHALL BE RESTORED TO ITS PREVIOUS TISFACTION OF THE DEPARTMENT OF REPRESENTATIVE.

E ELEVATION AND LOCATION OF ALL UTILITIES BY NG ANY EXCAVATION. THE CONTRACTOR SHALL AGER OR OWNER'S REPRESENTATIVE IN THE EVENT ETWEEN EXISTING AND PROPOSED UTILITIES SO MAY BE MADE.

LOCATION OF UTILITY COMPANY FACILITIES, SHALL REQUIREMENTS OF THE UTILITY OWNER. TS INCLUDE MDC, CNG, CL&P, AND OTHERS.

INFORCED CONCRETE PIPE (RCP) CLASS IV WITH WITH ASTM-C-76 AND ASTM-C-443.

FILL IN 8" MAXIMUM LIFTS UNDER ALL ROADWAY

THE PIPE BACKFILL IN 12" LIFTS ACCORDING TO RENCH BOTTOM SHALL BE STABLE IN HIGH

ED FOR DEMOLITION SHALL BE REMOVED UNLESS

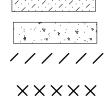
AT ALL TIMES TO SWEEP THE SURROUNDING OWN AND/OR THE OWNER'S REPRESENTATIVE. TABLISHMENT SHALL CONFORM TO CTDOT FORM

	(NOT ALL SYMBOLS M	AY BE USED)		
	PROPERTY LINE	۵	CONTROL POINT	
	EASEMENT LINE	·	MONUMENT	
	CURB	O IP	IRON PIPE	
	EDGE OF PAVEMENT (EOP)	O IPIN	IRON PIN	. <u> </u>
	TIMBER RAIL	۲	DRILL HOLE	I
I	TIMBER FENCE OR GUIDE RAIL	\otimes	BENCHMARK	
X	CHAIN LINK FENCE	•	SOIL BORING	x
	TREE/VEGETATION LINE	\oplus	SOIL PROBE	\checkmark
25	MAJOR CONTOUR	\blacklozenge	MONITORING WELL	25
21	MINOR CONTOUR		TEST PIT	2
× 21.25 × TC21.25 × BC20.75	SPOT ELEVATION TOP/BOTTOM OF CURB ELEVATION	₽ _₩ F#	WETLAND FLAG TYPE 'C' CATCH BASIN	×21.2 × TC2 BC2
· · · _	STREAM OR EDGE OF WATER		TYPE 'CL' CATCH BASIN	
8 <u>" PV</u> C	PIPES < 12"Ø (SIZE & MATERIA	L) ⊘	YARD DRAIN	24″
18 <u>" RC</u> P	PIPES ≥ 12"ø (SIZE & MATERIA	L) D	STORM DRAINAGE MANHOLE	—— т
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——— E ———	UNDERGROUND ELECTRIC	$\overline{(T)}$	TELEPHONE MANHOLE	
OE	OVERHEAD ELECTRIC	\swarrow	WATER MANHOLE	S
BPL	BUCKEYE PIPELINE	\bigcirc	MISCELLANEOUS MANHOLE	S
	SANITARY SEWER	GV	GAS VALVE	w
——— W ———	WATER	E	ELECTRICAL BOX	———-GA
G	GAS		HAND HOLE	
	LIMIT OF INLAND WETLANDS	$T \times$	PAD MOUNTED TRANSFORMER	~
	LIMIT OF 100' REGULATED UPLAND REVIEW AREA	-ф-	HYDRANT	//
	STUMP	X ≪¥	WATER VALVE	E
* (*)	TREES	$\not \! \! $	UTILITY POLE W/ GUY WIRE	
	SHRUBS	¢LP ¢LB	LIGHT POLE, LIGHT BOLLARD	
		¤—¤	LUMINAIRE ON STANDARD	
			SIGNE	

THE SIGNS

OP POST

O BOLLARD



ABBREVIATIONS (NOT ALL ADDEVIATIONS MAY DE LISED)

	(NOT ALL ABBREVIATIONS MAY BE USED)	
TD C PB DD H PYD VE PH TS.C.D. B E VCCVCP DW AD TH HPT W C EEL F H GOS WYP.	GRADE TO DRAIN HANDICAP HIGH DENSITY POLYETHYLENE HYDRODYNAMIC SEPARATOR STRUCTURE HANDHOLE HIGH POINT HYDRANT INSIDE DIAMETER INVERT ELEVATION INVERT ELECTRIC CABLE LOW POINT MANHOLE NOT TO SCALE ON CENTER OUTSIDE DIAMETER PULL BOX POLYETHYLENE PROPERTY LINE PAVEMENT PRESTRESSED CONCRETE CYLINDRICAL PIPE POLYVINYL CHLORIDE REINFORCED CONCRETE PIPE RADIUS ROOF DRAINAGE RAIN WATER LEADER PIPE SLOPE SANITARY STORM DRAIN DRAWING NO. SHEET SANITARY MANHOLE STORMWATER POLLUTION CONTROL PLAN STORM SERVICE WATER TOP OF CURB TEMPORARY TELEPHONE TOP OF FRAME TELEPHONE TOP OF SLAB TOP OF WALL TYPICAL	UD UKWN VC VIF W WM WMH WS WV YD

REMOVAL NOTES

VE ANY AND ALL ITEMS AS REQUIRED TO CONSTRUCT WORK AT

KISTING UTILITIES SHALL BE PERFORMED IN ACCORDANCE WITH ENTS AND STANDARDS. CONTRACTOR SHALL COORDINATE UTILITY COMPANIES PRIOR TO CONSTRUCTION.

AND/OR DEMOLISH AND REMOVE ANY AND ALL UNEXPECTED ION AS APPROVED BY THE ENGINEER AT NO ADDITIONAL COST TO

JTED CAREFULLY AT ALL LOCATIONS ADJACENT TO EXISTING ROTECTION OF EXISTING UTILITIES WITHIN THE WORK LIMIT SHALL TOR. ALL WORK SHALL BE COORDINATED WITH THE APPROPRIATE

OR SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR AS

RBS, SIDEWALKS, STRUCTURES OR ANY OTHER APPURTENANCES R) BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER AT THE AGED SECTIONS BACK TO THE NEAREST JOINT WHERE RIALS, THICKNESS, AND PATTERNS.

AND CONCRETE SURFACES AT LIMITS OF REMOVAL AS REQUIRED EN EXISTING SURFACES (TO REMAIN) AND NEW SURFACES. SION JOINTS AS REQUIRED. ANY EXISTING SURFACES DIRECTLY PREVIOUSLY DAMAGED OR DETERIORATED AND DAMAGED BY ADDITIONAL COST TO THE OWNER.

WITH OWNER AND FOLLOW SAFETY PROCEDURES RECOMMENDED IN AS APPLICABLE.

PREPARED FOR:

ONE RIVERSIDE DRIVE



ABND

ACCMP

APPROX.

АМ

BC

BCLC

BOT

BIT.

BO

BOW

C-CB

CI

CIP

CLF

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C.O.

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FLR

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G

FF

EXIST.

CL-CB

BI ΒM ABANDONED

APPROXIMATE

BOTTOM OF CURB

ASPHALT COATED CORRUGATED METAL PIPE

BITUMINOUS CONCRETE LIP CURB

AIR MAIN

BOTTOM

BASELINE

BLOW OFF

BITUMINOUS

BENCHMARK

CENTER LINE

CAST IRON

CLEAN OUT

DUCTILE IRON

CONCRETE

DEGREES

DIAMETER

DRAIN LINE

ELECTRICAL

ELEVATION

EXISTING

EXISTING

FLOOR

GAS

FLARED END

FLOOR DRAIN

GAS METER

FINISHED FLOOR

BOTTOM OF WALL

CAST IRON PIPE

CHAIN LINK FENCE

DUCTILE IRON PIPE

DRAINAGE MANHOLE

ELECTRICAL MANHOLE

FINISHED FLOOR ELEVATION

FIBERGLASS REINFORCED PLASTIC

EDGE OF PAVEMENT

DOMESTIC WATER

TYPE "C" CATCH BASIN

TYPE "C-L" CATCH BASIN

CONCRETE MASONRY UNIT

CORRUGATED PLASTIC PIPE

RIVERSIDE DRIVE OUTFALL

125 RIVERSIDE DRIVE EAST HARTFORD, CONNECTICUT

LEGEND (PROPOSED)

(NOT ALL SYMBOLS MAY BE USED)
 PROPERTY LINE
 EASEMENT LINE
 CURB

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×21.25

× TC21.25 BC20.75
24" RCP
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22

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GAS
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EDGE OF PAVEMENT (EOP) METAL BEAM GUIDE RAIL TIMBER BARRIER RAIL CHAIN LINK FENCE TREE/VEGETATION LINE MAJOR CONTOUR MINOR CONTOUR SPOT ELEVATION TOP/BOTTOM OF CURB ELEVATION PIPES TELEPHONE/COMMUNICATIONS STORM DRAINAGE UNDERGROUND ELECTRIC OVERHEAD ELECTRIC

SANITARY SEWER FORCE MAIN SANITARY SEWER WATER GAS EXISTING PIPE TO BE REMOVED EXISTING PIPE TO BE ABANDONED GEOTEXTILE SILT FENCE TEMPORARY SEDIMENT CONTROL REMOVE PAVEMENT BIT. CONC. PAVEMENT

TURF ESTABLISHMENT

CONCRETE SIDEWALK EXISTING SITE FEATURE TO BE REMOVED EXISTING SITE FEATURE TO BE ABANDONED IN PLACE

SOIL BORING SOIL PROBE - MONITORING WELL TEST PIT TYPE 'C' CATCH BASIN TYPE 'CL' CATCH BASIN Ø YARD DRAIN D STORM DRAINAGE MANHOLE SANITARY SEWER MANHOLE © ELECTRICAL MANHOLE TELEPHONE MANHOLE WATER MANHOLE \bigcirc MISCELLANEOUS MANHOLE × GAS VALVE E ELECTRICAL BOX HAND HOLE TX PAD MOUNTED TRANSFORMER -Q- HYDRANT WATER VALVE $\not \to$ UTILITY POLE W/ GUY WIRE ₩ POLE MOUNTED LIGHT FIXTURE X D LUMINAIRE ON STANDARD ㅠㅠ · SIGNS OP POST BOLLARD TREES ₩ { SHRUBS GRADE TO DRAIN PORTABLE DUMPSTER D CONTAINER

NOTES:

UNDERDRAIN

VITRIFIED CLAY

WATER METER WATER MANHOLE

WATER STOP

YARD DRAIN

WATER VALVE

VERIFY IN FIELD

UNKNOWN

WATER

THE DEVELOPER SHALL NOTIFY THE TOWN OF EAST HARTFORD ENGINEERING DIVISION 24 HOURS PRIOR TO BEGINNING ANY STORM DRAINAGE, ROADWAY PREPARATION, PAVING, SIDEWALK, CURBING, STREET LINE MONUMENTATION, PROPERTY CORNER PINS, ETC., TO SCHEDULE INSPECTIONS. THE DIVISION CAN BE REACHED BETWEEN 8:30 A.M. - 4:30 P.M. AT 860-291-7380.

THE TOWN SHALL BE NOTIFIED IN WRITING AT LEAST 2 DAYS IN ADVANCE OF THE PRE-CONSTRUCTION MEETING BETWEEN THE CONTRACTOR AND THE ENGINEER.

GENERAL NOTES AND LEGEND

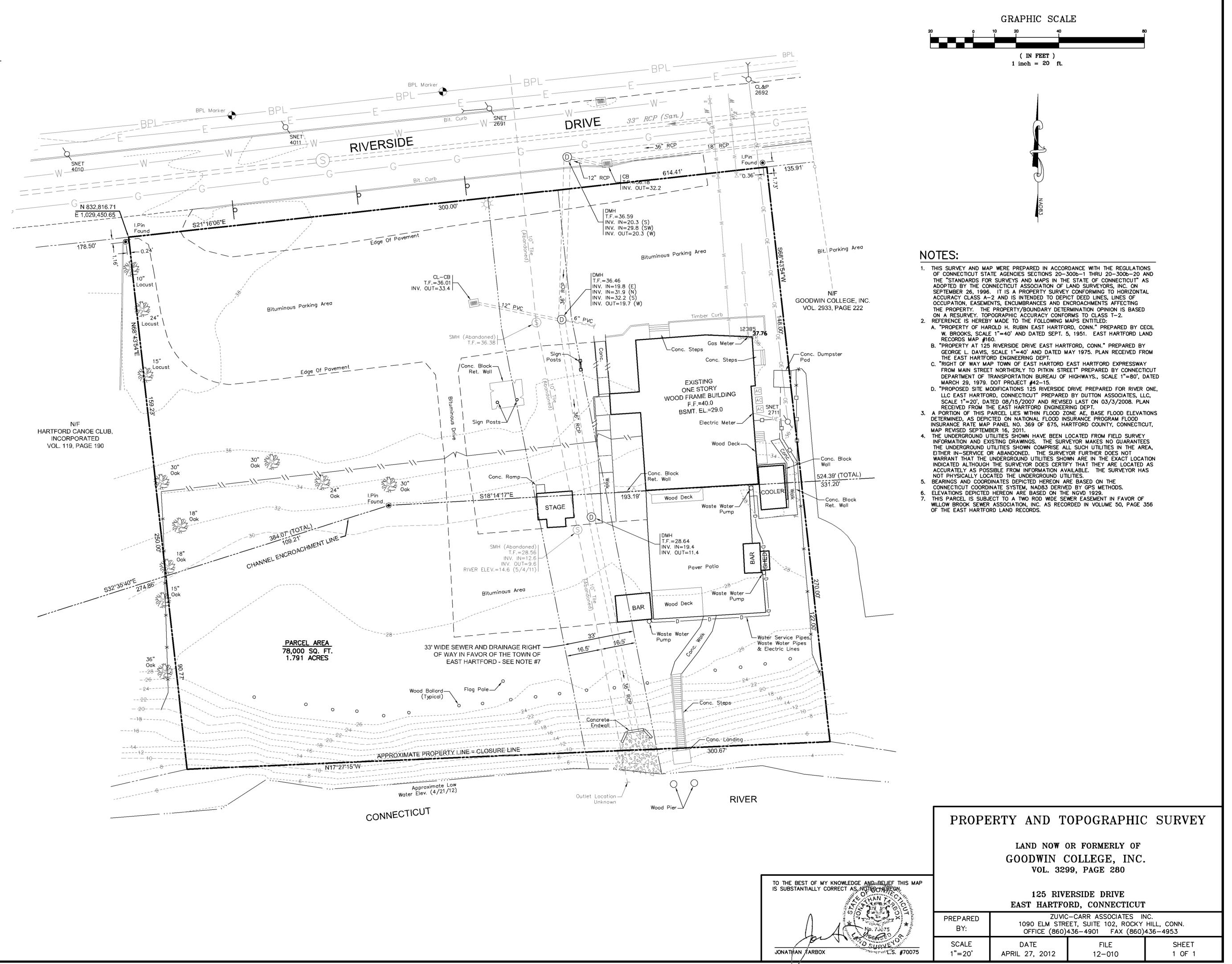
SHEET NO.

GN-1

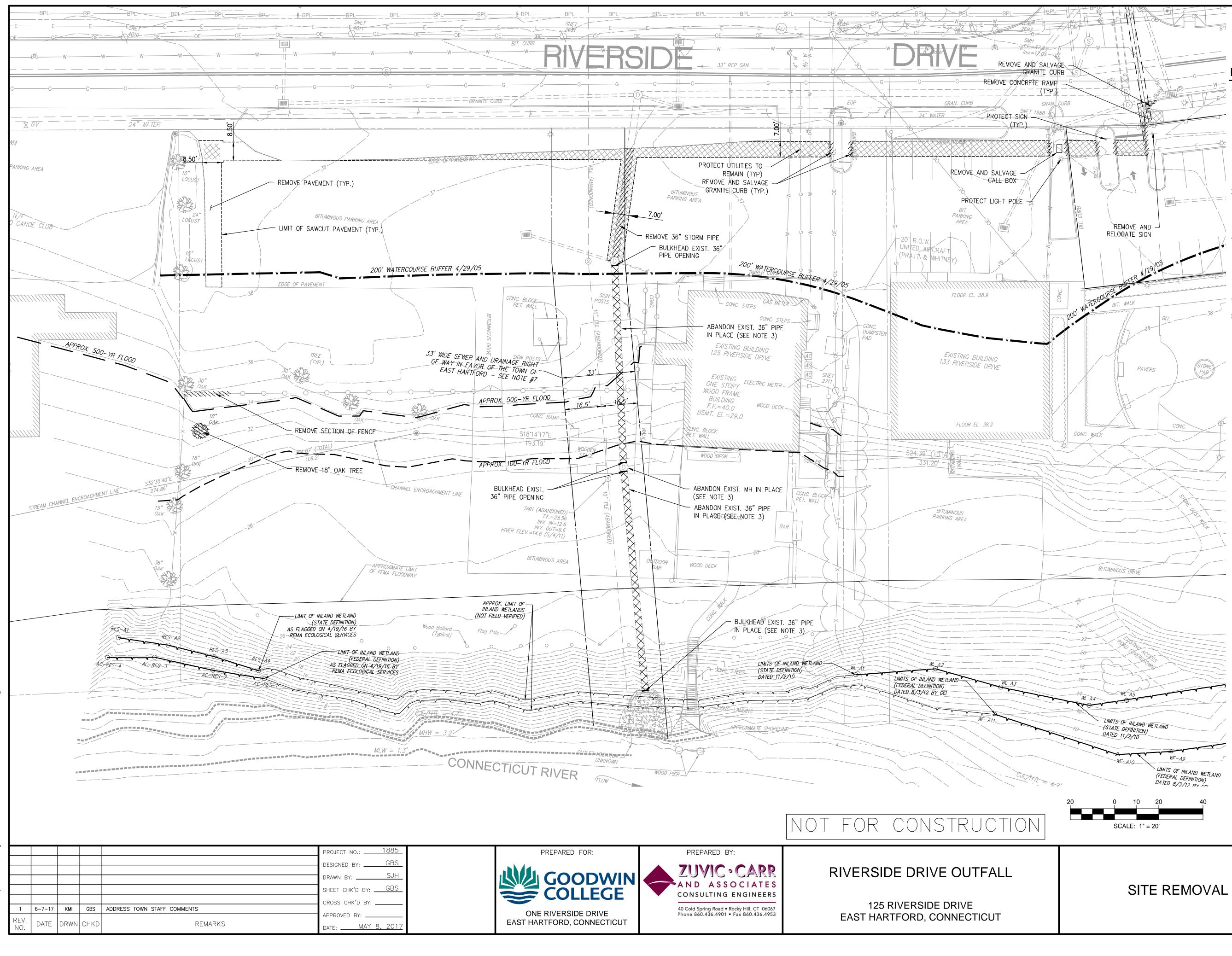
LEGEND

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SUBJECT PROPERTY/STREET LINE OTHER PROPERTY/STREET LINE EASEMENT LINE CONCRETE MONUMENT FOUND IRON PIPE/PIN MONUMENT FOUND UTILITY POLE OVERHEAD WIRES CATCH BASIN LIGHT POLE CHAIN LINK FENCE IRON FENCE STOCKADE FENCE SANITARY MANHOLE WATER VALVE SIGN MONITOR WELL ELECTRIC MANHOLE TELEPHONE MANHOLE DRAINAGE MANHOLE GAS MAIN TELEPHONE ELECTRIC STORM DRAINAGE MAIN BUCKEYE PIPELINE CONTOUR



DATE	DESCRIPTION	BY
	DATE	DATE DESCRIPTION





REMOVAL PLAN NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES, STRUCTURES, AND OTHER SITE FEATURES NOT BEING REMOVED AND/OR ALTERED AS PART OF THE PROJECT SCOPE. THE CONTRACTOR SHALL REPAIR OR REPLACE UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF WORK AT THE CONTRACTOR'S EXPENSE.
- 2. ALL STRUCTURES, SITE FEATURES, AND UTILITIES TO BE REMOVED SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS
- EXISTING 36" PIPE TO BE ABANDONED IN PLACE WITH BULKHEADS INSTALLED WHERE SHOWN, AND AT LATER DATE WHEN 125 RIVERSIDE DRIVE IS RE-DEVELOPED, THE PIPE IS EITHER TO BE REMOVED, OR FILLED WITH FLOWABLE CONCRETE FILL.
- STUMPS SHALL NOT BE BURIED ON SITE.
- REMOVAL OF EXISTING SIDEWALK SHALL BE TO THE NEAREST EXPANSION/CONTRACTION JOINT OR DUMMY JOINT.

NOTES:

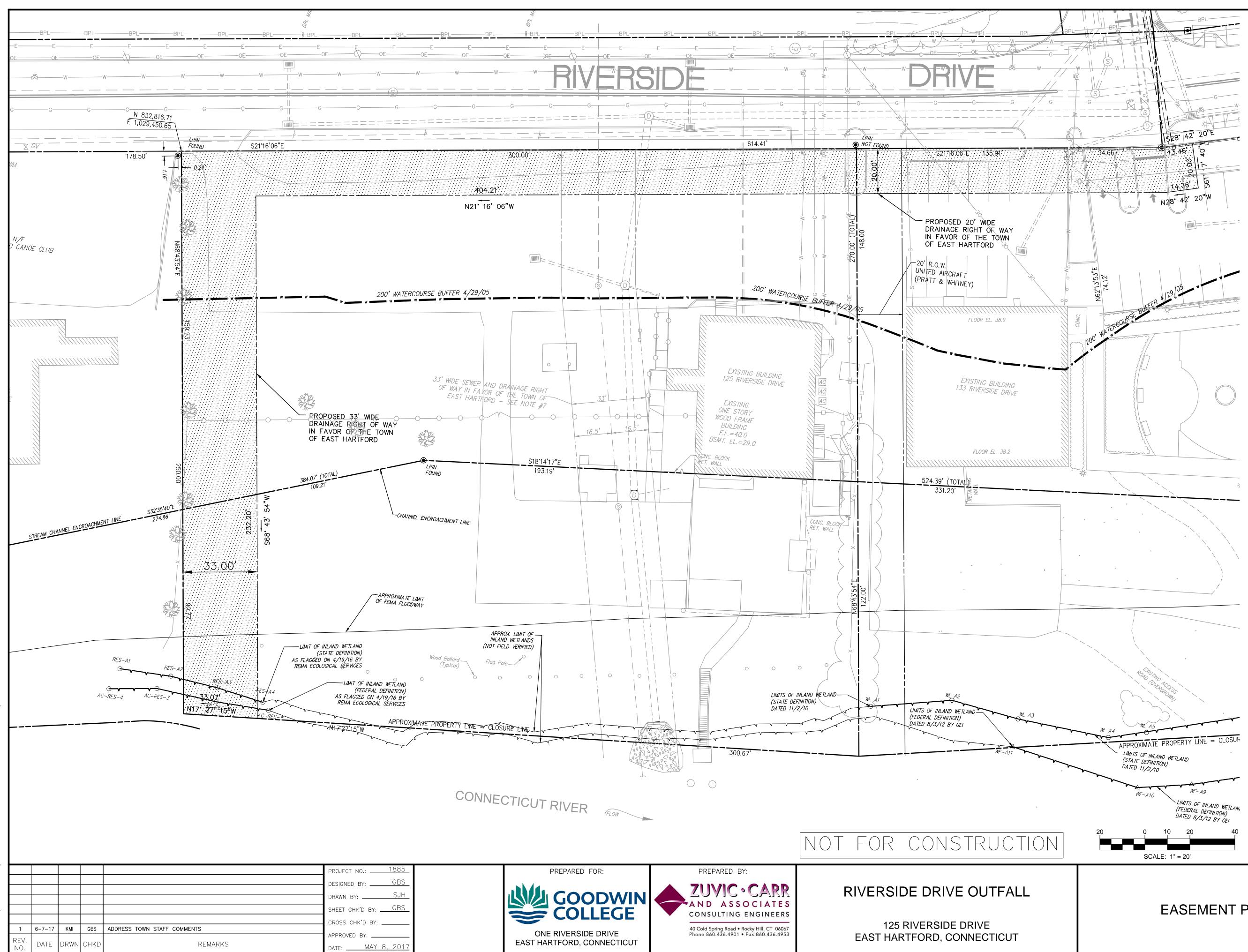
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SITE REMOVAL PLAN

SHEET NO.

DP-1



NOTES:

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EASEMENT PLAN

SHEET NO.

EP-1

EROSION AND SEDIMENTATION CONTROL PLAN

<u>NARRATIVE</u>

THE SUBJECT SITES ARE LOCATED AT 125 AND 133 RIVERSIDE DRIVE IN THE CITY OF EAST HARTFORD, CONNECTICUT AND CONTAIN A TOTAL OF 3.8 ACRES. THE SITES ARE OCCUPIED BY COMMERCIAL BUILDINGS, PAVEMENT, PATIOS AND SIDEWALKS. THE SITES ARE LOCATED WITHIN THE I-3 INDUSTRIAL ZONE.

THE SITES GENERALLY SLOPES IN A NORTHWESTERLY TO SOUTHEASTERLY DIRECTION DOWN TOWARDS THE CONNECTICUT RIVER. A PIPED STORMWATER COLLECTION SYSTEM BISECTS THE 125 RIVERSIDE DRIVE SITE DISCHARGING THROUGH A 36" OUTFALL TO THE CONNECTICUT RIVER.

WORK INCLUDES THE CONSTRUCTION OF A 54" STORM SEWER WHICH WILL CONNECT INTO THE EXISTING 36" STORM SEWER PIPE WITHIN 125 RIVERSIDE DRIVE AND ALSO INTO A NEW 36" PIPE INSTALLED WITHIN 133 RIVERSIDE DRIVE AT THE ENSIGN STREET INTERSECTION. THE NEW OUTFALL FOR THE 54" STORM SEWER WILL BE LOCATED APPROXIMATELY 200 FEET NORTH OF THE EXISTING OUTFALL, WHICH WILL BE ABANDONED UPON COMPLETION OF THE 5. APPLY TEMPORARY SEEDING OR MULCH TO AREAS WHERE ROUGH GRADING HAS BEEN COMPLETED BUT FINAL GRADING IS NOT PROJECT.

THE ESTIMATED TOTAL AREA OF THE SITES THAT ARE EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES IS APPROXIMATELY 0.12 ACRES (5,000 SF).

CONSTRUCTION SCHEDULE

ESTIMATED START OF CONSTRUCTION IS FALL 2017. ESTIMATED COMPLETION OF CONSTRUCTION IS SPRING 2018 (FINAL STABILIZATION).

RESPONSIBLE CONTACT

THE RESPONSIBLE CONTACT PERSON FOR ASSURING THAT ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES ARE PROPERLY INSTALLED AND MAINTAINED WILL BE DESIGNATED BY THE SITE CONTRACTOR. THE RESPONSIBLE CONTACT PERSON FOR MAINTAINING THE PERMANENT MEASURES WHEN THE PROJECT IS COMPLETE WILL BE DAN LARSON OF GOODWIN COLLEGE.

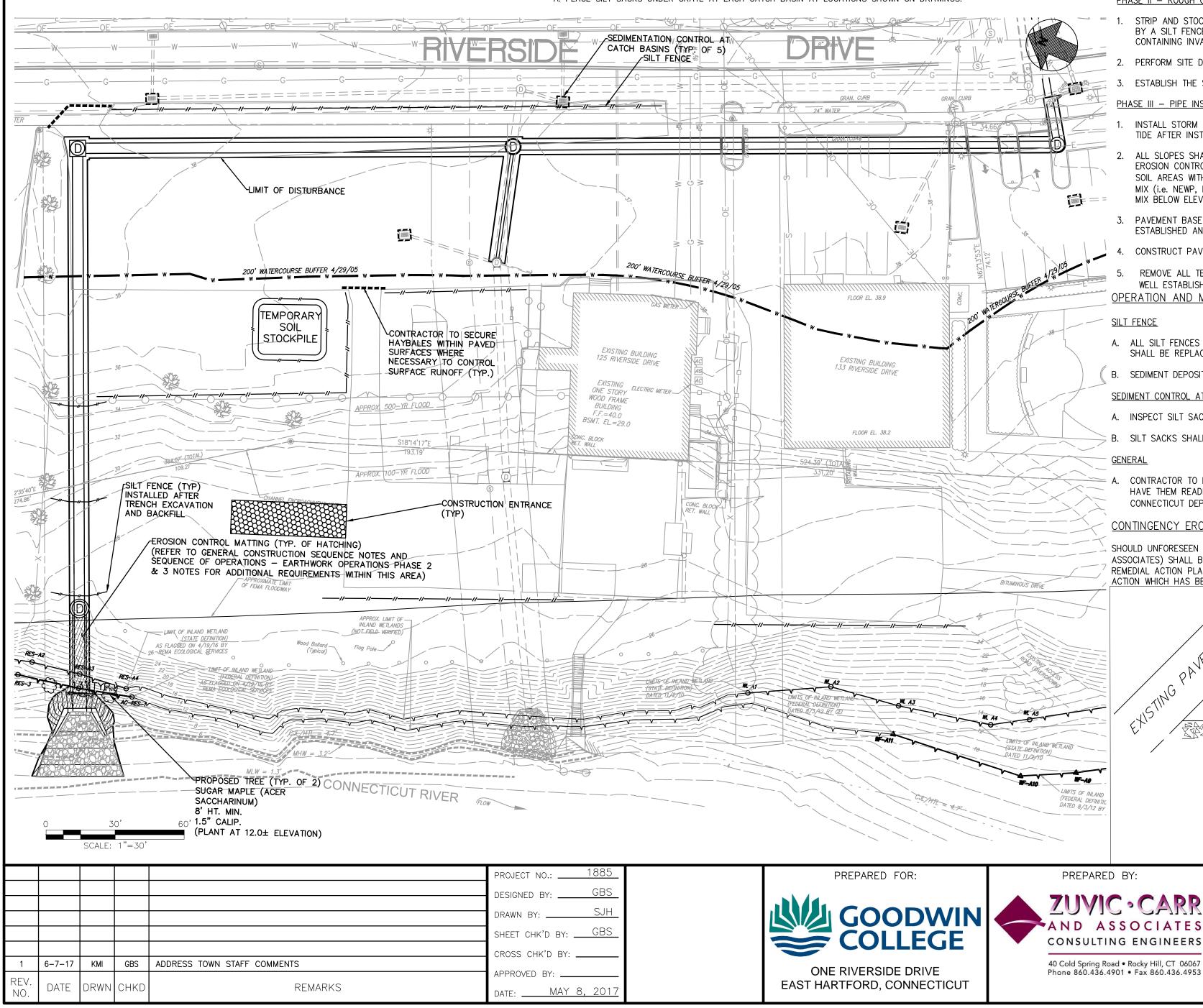
- GENERAL EROSION AND SEDIMENTATION CONTROL NOTES
- 1. THE EROSION AND SEDIMENT CONTROLS SHOWN ON THE DRAWINGS DEPICT THE MINIMUM EROSION AND SEDIMENT CONTROL MATERIALS FROM LEAVING THE SITE.
- AND CONSTRUCTION.
- 4. THE CONTRACTOR SHALL KEEP ALL PUBLIC ROADWAYS CLEAN AND CLEAR OF ALL MUD AND DEBRIS DURING CONSTRUCTION. THE CONTRACTOR SHALL IMPLEMENT MEASURES NECESSARY FOR DUST CONTROL, INCLUDING BUT NOT LIMITED TO ROADWAY SWEEPING AND WATERING.
- ANTICIPATED TO BEGIN WITHIN 30 DAYS OF THE COMPLETION OF ROUGH GRADING. WHEN CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED OR WHEN FINAL GRADES ARE REACHED, STABILIZATION AND PROTECTION MEASURES SHALL BE IMPLEMENTED WITHIN SEVEN (7) DAYS.
- GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" AS AMENDED.
- INSTALLATION OF SEDIMENTATION AND EROSION CONTROL MEASURES

SILT FENCE

- A. SILT FENCE SHALL BE INSTALLED AT LOCATIONS SHOWN ON THIS PLAN AND AS DIRECTED BY THE ENGINEER. B. DIG A SIX INCH TRENCH ON THE UPHILL SIDE OF THE DESIGNATED FENCE LINE LOCATION. C. POSITION THE POST AT THE BACK OF THE TRENCH (DOWNHILL SIDE), AND INSTALL THE POST AT LEAST 1.5 FEET INTO THE
- GROUND D. LAY THE BOTTOM SIX INCHES OF THE FABRIC INTO THE TRENCH TO PREVENT UNDERMINING BY STORM WATER RUN-OFF.
- . BACKFILL THE TRENCH AND COMPACT.

SEDIMENT CONTROL AT CATCH BASINS

A. PLACE SILT SACKS UNDER GRATE AT EACH CATCH BASIN AT LOCATIONS SHOWN ON DRAWINGS.



3. STRIP AND STOCKPILE TOPSOIL. NO TOPSOIL SHALL BE REMOVED FROM THE SITE WITHOUT THE PERMISSION OF THE OWNER EXCEPT FOR TOPSOIL STRIPPED FROM STEEP SLOPES CONTAINING INVASIVES. 2. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND APPROVED PRIOR TO THE START OF DEMOLITION COMMENCE REMOVAL OF BITUMINOUS PAVEMENT, CONCRETE SIDEWALKS, CURBING, FENCES, ETC. 5. PERFORM ROUGH GRADING. EXCESS MATERIAL SHALL BE TAKEN DIRECTLY OFF-SITE AND PROPERLY DISPOSED OF BY THE CONTRACTOR. INVASIVE PLANT SPECIES (INCLUDING MULTIFLORA ROSE, ASIATIC BITTERSWEET, AND GARLIC MUSTARD) 3. EROSION CONTROL MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PERIOD AND LOCATED WITHIN 10 FEET OF ANY DISTURBED AREAS OF STEEP SLOPES LOCATED IN THE OUTLET CORRIDOR SHALL BE CONTROLLED OR ERADICATED USING THE PROTOCOLS PROMULGATED BY THE CT DEEP AND/OR THE NATURE

RELOCATION AS REQUIRED.

CONSERVANCY 6. CONTINUE EARTHWORK IN EXPEDITIOUS MANNER, AND STABILIZE. INSTALL ADDITIONAL EROSION CONTROLS AS DIRECTED BY THE ENGINEER OR OWNER'S REPRESENTATIVE.

INSTALL SOIL AND EROSION CONTROL MEASURES INCLUDING BUT NOT LIMITED TO: SILT FENCE AND SILT SACKS.

- COMPLETE INSTALLATION OF STORM STRUCTURES AND PIPE. PLACE 10" OF TOPSOIL THAT IS FREE FROM INVASIVE SPECIES ON THE STEEP SLOPES WITHIN THE OUTLET CORRIDOR. TOPSOIL REMOVED FROM THIS AREA SHALL NOT BE REUSED.
- COMPLETE INSTALLATION OF GRANITE CURB, SIDEWALKS, AND RAMPS. COMPLETE INSTALLATION OF BITUMINOUS CONCRETE PAVEMENT AND BITUMINOUS CURBS IN PARKING AREAS AND ACCESS
- DRIVES. INSTALL STRIPING AND SIGNAGE. 10. COMPLETE REPLACEMENT OF DECORATIVE FENCING.
- 11. PREPARE FINAL GRADE FOR AREAS DISTURBED BY CONSTRUCTION NOT RECEIVING A HARD SURFACE. PLACE 6" OF TOPSOIL ON DISTURBED AREAS OTHER THAN AREAS OF STEEP SLOPES (10") AFTER FINAL GRADING IS COMPLETED. APPLY FERTILIZER, SEED AND MULCH.
- 12. REMOVE EROSION CONTROLS AFTER AREAS ARE STABILIZED.

SEQUENCE OF OPERATIONS - EARTHWORK OPERATIONS

PHASE 1 - INSTALLATION OF SOIL EROSION AND SEDIMENT CONTROL MEASURES

- 1. ALL SEDIMENTATION AND EROSION CONTROL MEASURES, INCLUDING BUT NOT LIMITED TO SILT FENCE AND SILT SACKS SHALL BE INSTALLED PRIOR TO START OF CONSTRUCTION.
- 2. THE CONTRACTOR SHALL NOT PROCEED WITH CONSTRUCTION ACTIVITIES UNTIL THE ENGINEER HAS INSPECTED AND APPROVED THE INSTALLATION OF ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES.
- 3. THE CONTRACTOR SHALL TAKE EXTREME CARE DURING CONSTRUCTION SO AS NOT TO DISTURB SEDIMENTATION AND EROSION CONTROL STRUCTURES.
- 4. ALL DISTURBED AREAS SHALL BE STABILIZED AS SOON AS PRACTICAL.
- <u>PHASE II ROUGH GRADING</u>
- STRIP AND STOCKPILE EXISTING TOPSOIL. ALL STOCKPILED TOPSOIL SHALL BE SEEDED, MULCHED WITH STRAW, AND ENCLOSED BY A SILT FENCE. STUMPS SHALL BE HAULED OFFSITE TO AN APPROVED DISPOSAL FACILITY. TOPSOIL FROM SLOPES CONTAINING INVASIVES IS NOT TO BE REUSED ON SITE, AND SHALL BE REMOVED AS REQUIRED.
- PERFORM SITE DEMOLITION AND REMOVAL OF ALL BITUMINOUS PAVEMENT AS REQUIRED.
- 3. ESTABLISH THE SUBGRADE FOR AREAS TO BE PAVED, SEEDED AND LANDSCAPED.
- PHASE III PIPE INSTALLATION, FINAL GRADING AND PAVING
- INSTALL STORM STRUCTURES BEGINNING WITH OUTFALL AND WORKING UPSLOPE. INSTALL RIPRAP ON OUTLET DURING LOW TIDE AFTER INSTALLATION OF OUTLET HEADWALL.
- 2. ALL SLOPES SHALL BE STABILIZED IMMEDIATELY UPON COMPLETION OF FINAL GRADING AND UNTIL TURF IS ESTABLISHED. EROSION CONTROL MATTING SHALL BE INSTALLED ON SEEDED AREAS WHERE THE SLOPE EXCEEDS 3:1. FOR ANY EXPOSED SOIL AREAS WITHIN STEEP SLOPES, PROVIDE 10" OF TOPSOIL AND SEED WITH NEW ENGLAND ROADSIDE MATRIX UPLAND SEED MIX (i.e. NEWP, INC., AMHERST, MA) ABOVE ELEVATION 15.0 FEET, AND NEW ENGLAND ROADSIDE MATRIX WET MEADOW SEED MIX BELOW ELEVATION 15.0 FEET.
- . PAVEMENT BASE COURSES SHALL BE INSTALLED OVER AREAS TO BE PAVED AS SOON AS FINAL SUB–GRADES ARE ESTABLISHED AND UNDERGROUND UTILITIES HAVE BEEN INSTALLED.
- 4. CONSTRUCT PAVEMENT, PLACE TOPSOIL, FINAL SEED, AND MULCH. INSPECT THE DRAINAGE SYSTEM AND CLEAN AS NEEDED.
- REMOVE ALL TEMPORARY EROSION CONTROL DEVICES ONLY AFTER ALL AREAS HAVE BEEN PAVED AND/OR GRASS HAS BEEN WELL ESTABLISHED AND THE SITE HAS BEEN INSPECTED AND APPROVED BY THE ENGINEER AND OWNER'S REPRESENTATIVE. OPERATION AND MAINTENANCE OF TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES

SILT FENCE

- A. ALL SILT FENCES SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL. ALL DETERIORATED FABRIC AND DAMAGED POSTS SHALL BE REPLACED AND PROPERLY REPOSITIONED.
- \sim B. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THEY EXCEED A HEIGHT OF ONE FOOT OR 1/2 THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL AT CATCH BASINS
- A. INSPECT SILT SACKS WEEKLY AND AFTER EACH RAINFALL.
- B. SILT SACKS SHALL BE EMPTIED WHEN THEY HAVE COLLECTED 6" TO 12" OF SEDIMENT.

CONTRACTOR TO KEEP WEEKLY CHECKLIST LOGS FOR INSPECTIONS OF ALL SEDIMENT AND EROSION CONTROL DEVICES AND HAVE THEM READILY AVAILABLE ON-SITE AT ALL TIMES FOR INSPECTION BY THE ENGINEER, OWNER'S REPRESENTATIVE OR CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CT DEEP).

CONTINGENCY EROSION PLAN

SHOULD UNFORESEEN EROSION OR SEDIMENTATION PROBLEMS ARISE, THE DESIGN ENGINEER OF RECORD (ZUVIC, CARR AND ASSOCIATES) SHALL BE NOTIFIED IMMEDIATELY. AN INSPECTION OF THE AFFECTED AREA(S) SHALL BE PROMPTLY PERFORMED. A REMEDIAL ACTION PLAN SHALL BE FORMULATED. THE SITE CONTRACTOR SHALL THEN IMPLEMENT THE RECOMMENDED COURSE OF ACTION WHICH HAS BEEN DETERMINED BY THE ENGINEER.

MAINTAIN ANTI-TRACKING PAVEMENT IN GOOD CONDITION THROUGH OUT CONSTRUCTION PERIOD. ROADWAY SHALL BE SWEPT DAILY TO REMOVE ANY MATERIAL THAT MAY BE TRACKED ONTO THE PAVEMENT. CONSTRUCTION ENTRANCE NOT TO SCALE

RIVERSIDE DRIVE OUTFALL

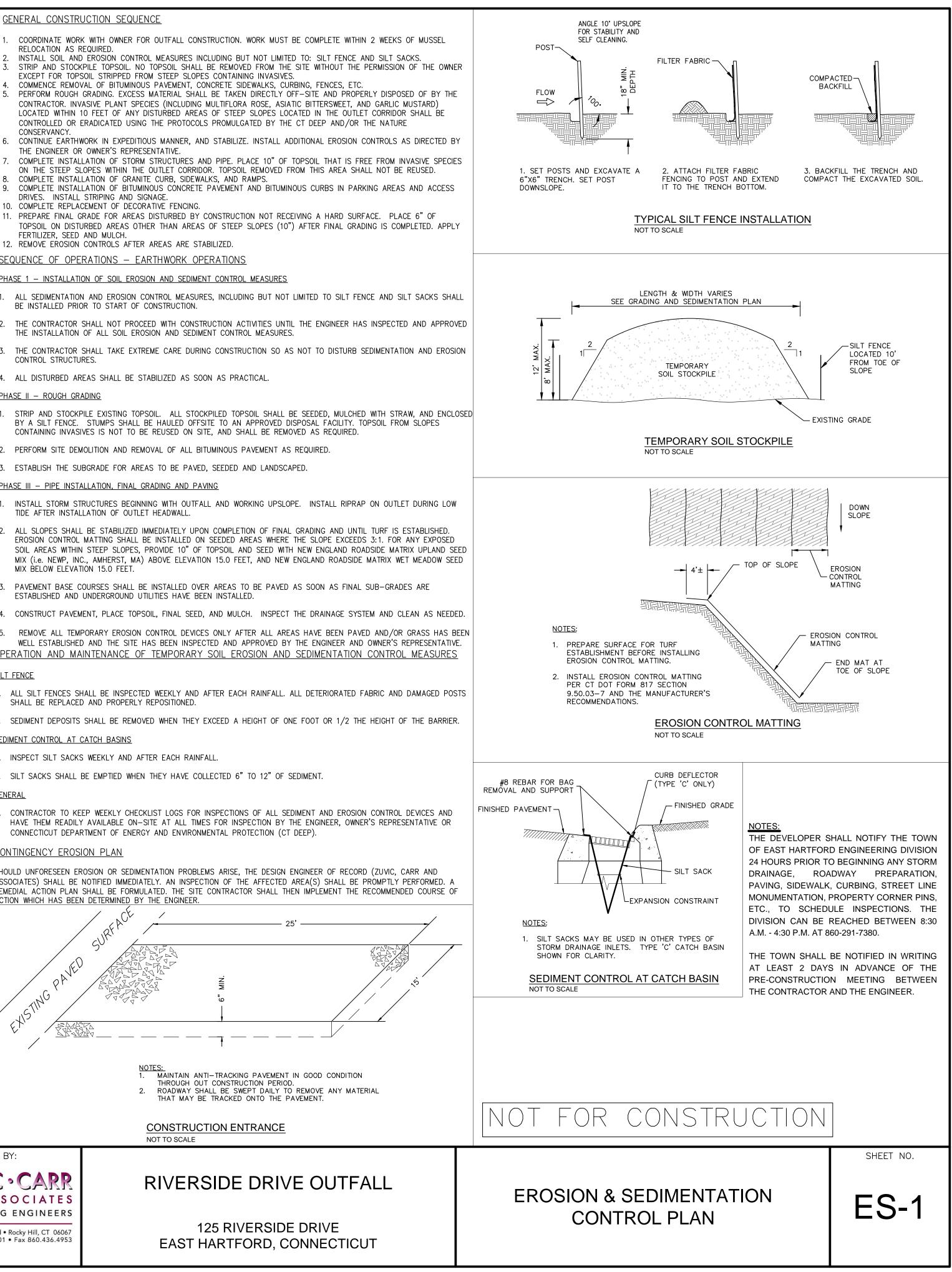
125 RIVERSIDE DRIVE EAST HARTFORD, CONNECTICUT

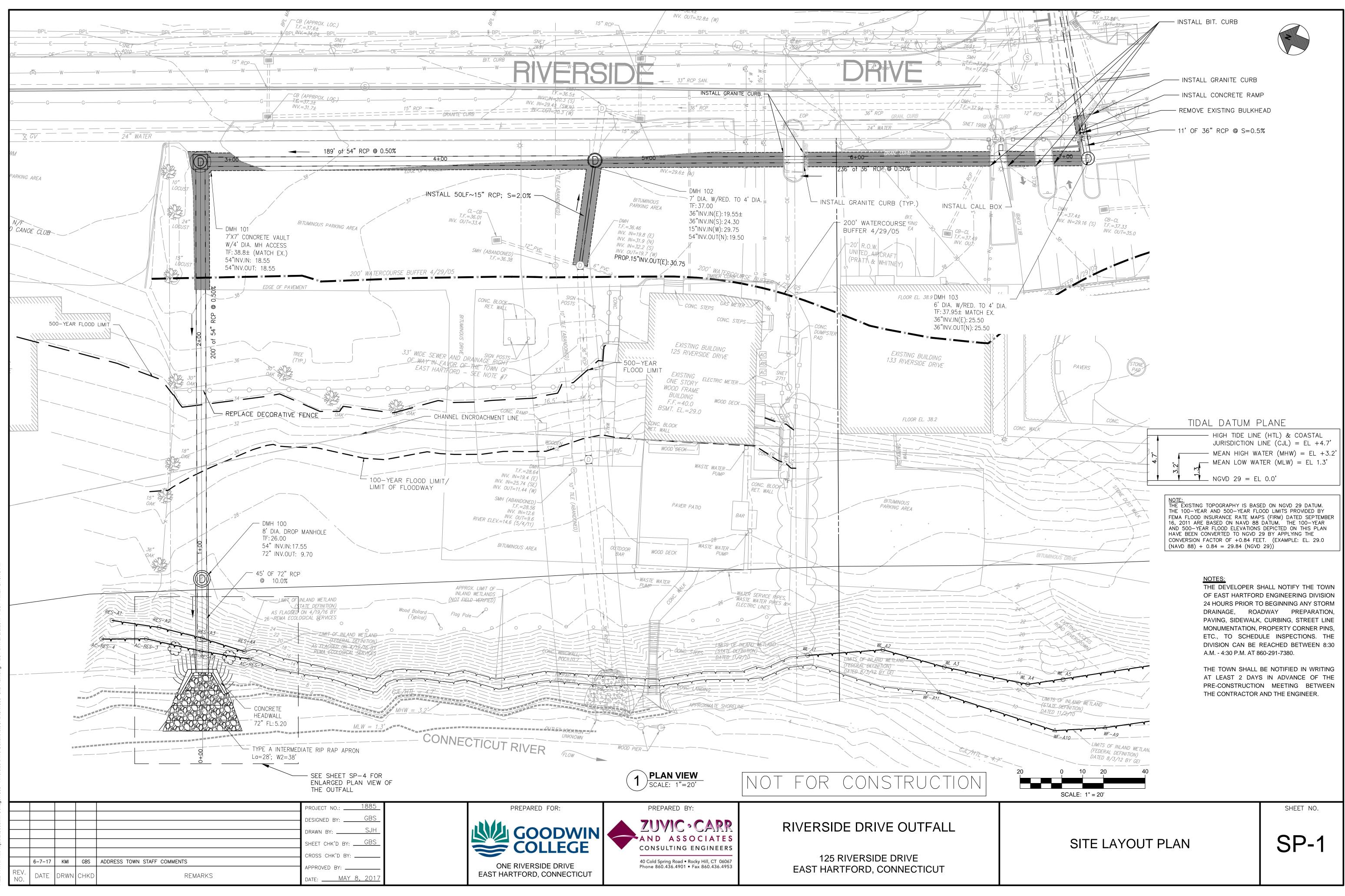
6. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL CONFORM TO THE REQUIREMENTS OF THE "2002 CONNECTICUT

UNTIL ALL AREAS ARE STABILIZED. IF FULL IMPLEMENTATION OF APPROVED EROSION CONTROL PLANS DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED AS DIRECTED BY THE ENGINEER/OWNER TO CONTROL OR TREAT THE SEDIMENT SOURCE AT THE CONTRACTOR'S EXPENSE.

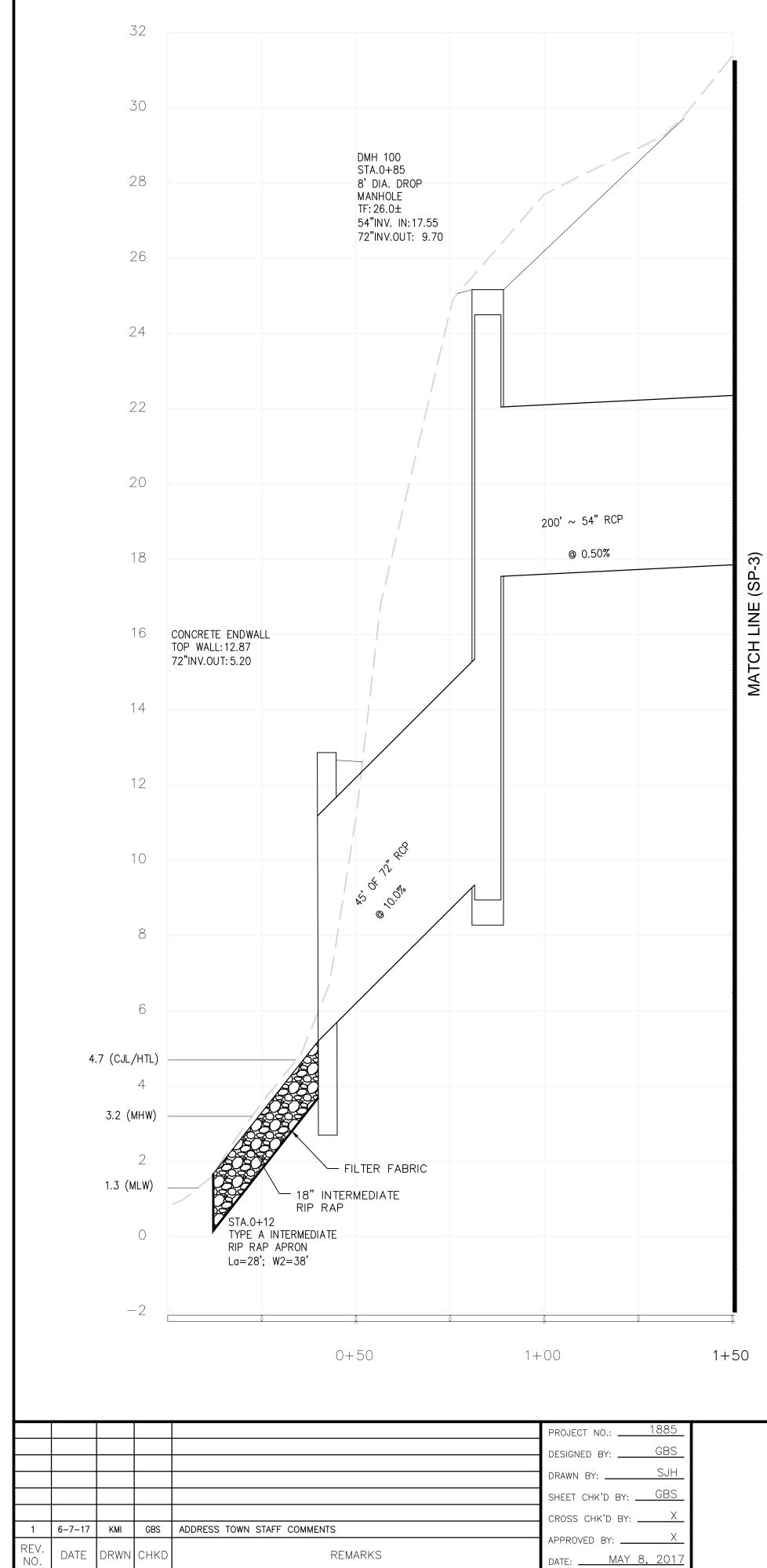
PRACTICES REQUIRED FOR THE PROJECT. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PREVENT ERODED

GENERAL CONSTRUCTION SEQUENCE





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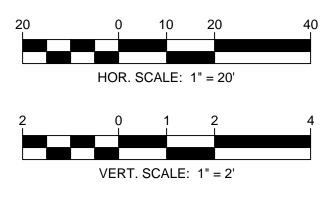


RIVERSIDE DRIVE OUTFALL

125 RIVERSIDE DRIVE EAST HARTFORD, CONNECTICUT

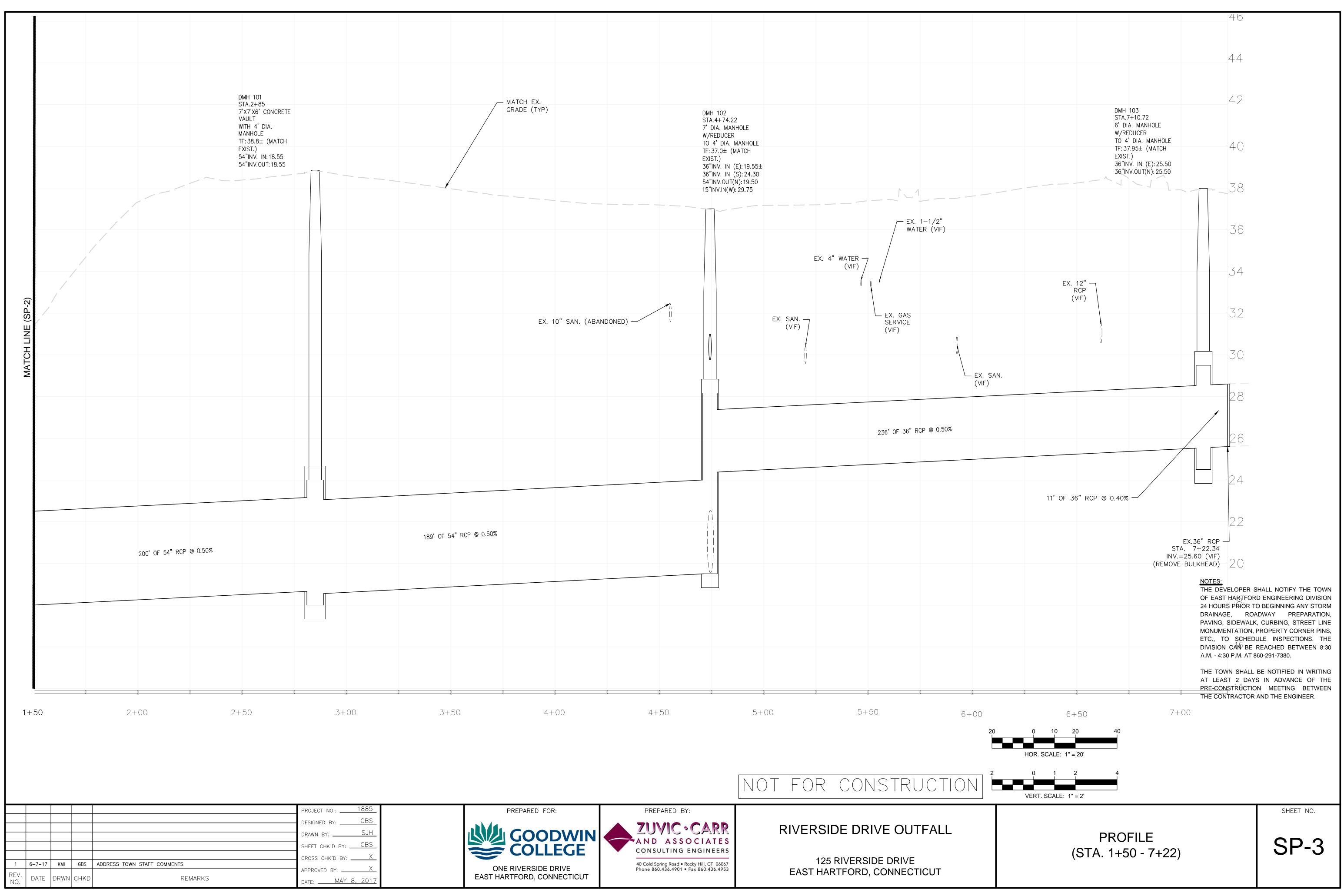
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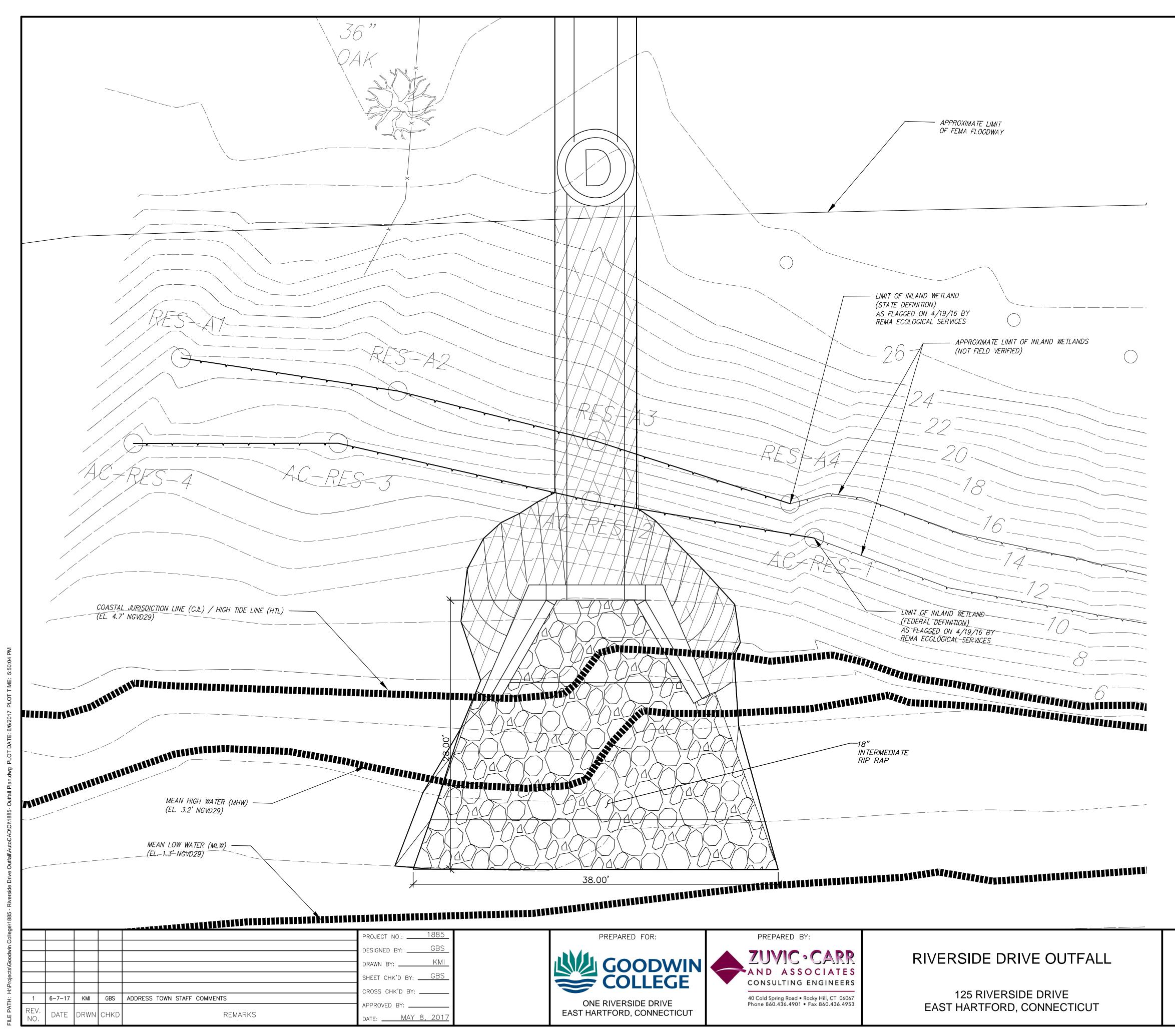
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PROFILE (STA. 0+00 - 1+50) SHEET NO.









NOTES:

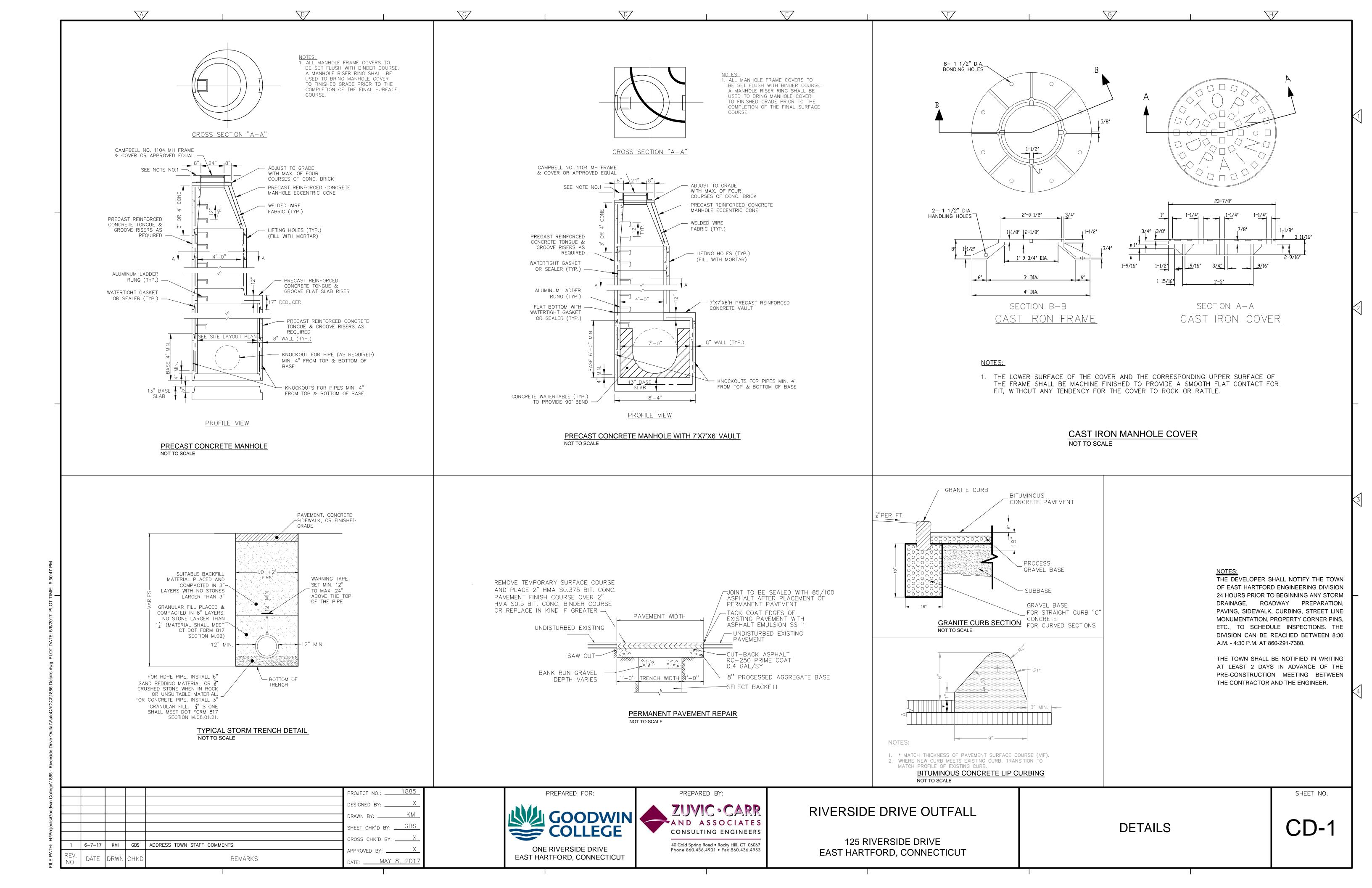
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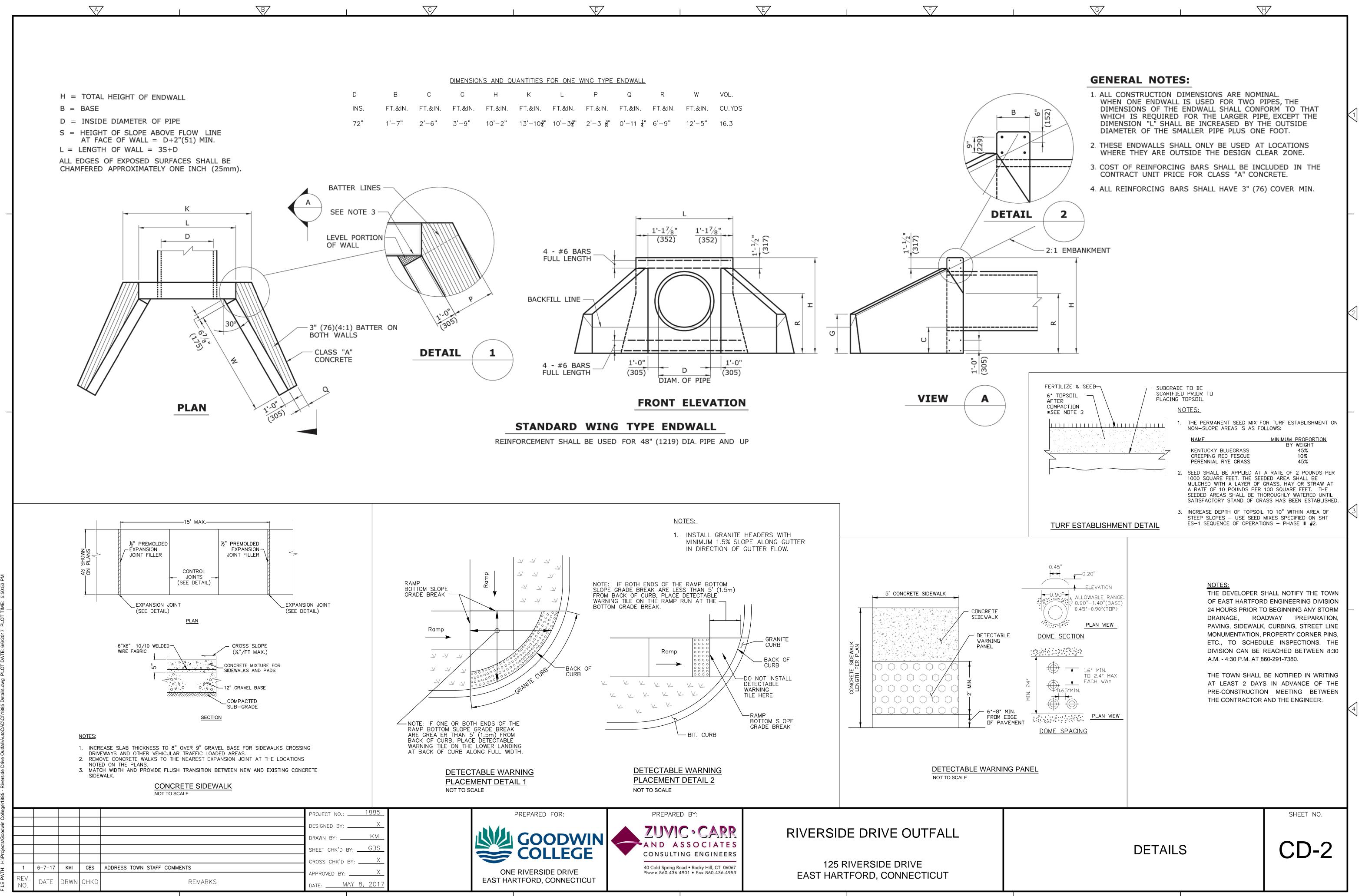
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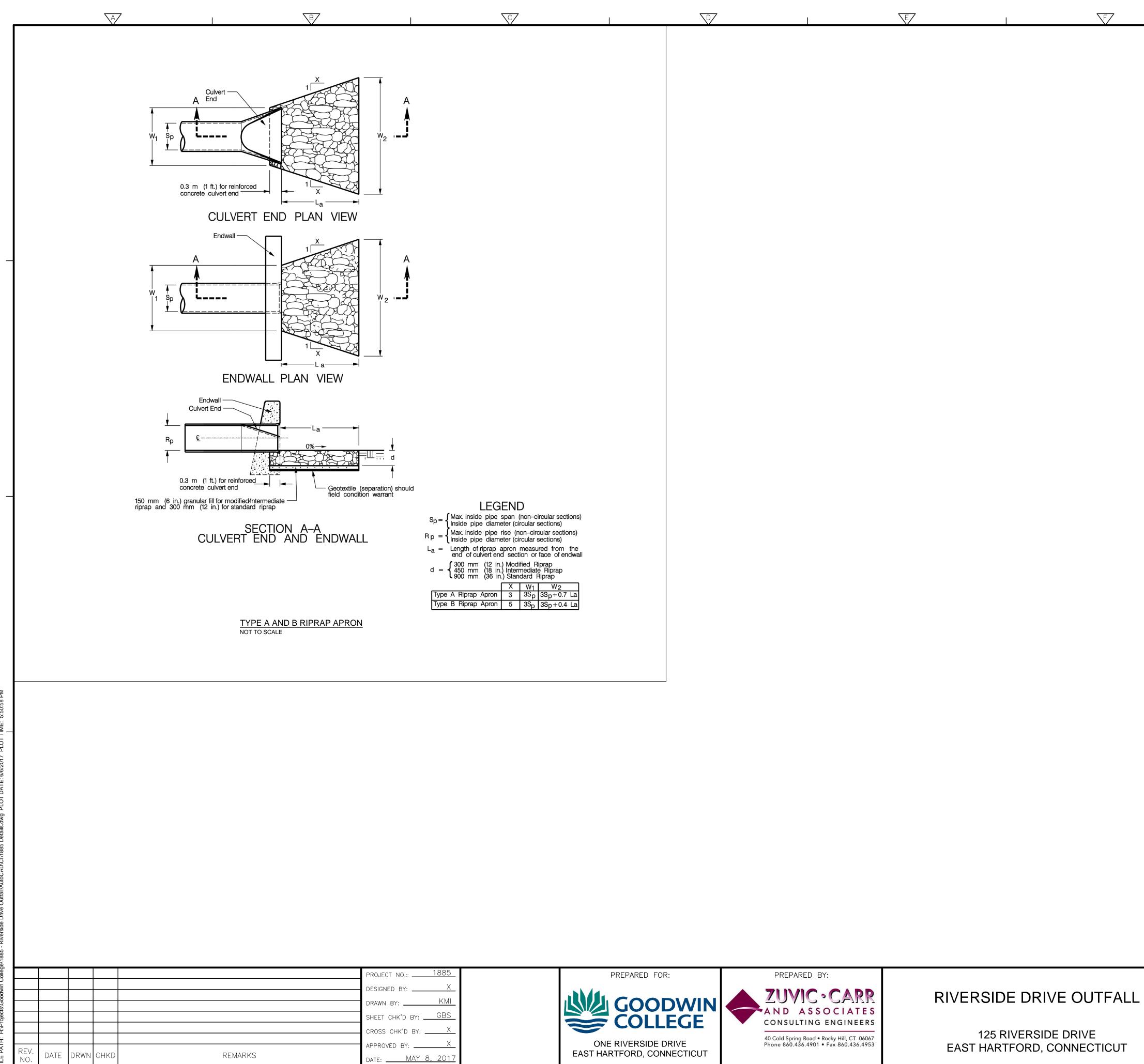


SHEET NO.

SP-4







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