

PROJECT LOCATION PLAN
SCALE: 1" = 1000'

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TOWN OF LEDYARD, CT

LEDYARD HIGH SCHOOL MULTI-USE PATHWAY AND SIDEWALK EXTENSION

L171-0001

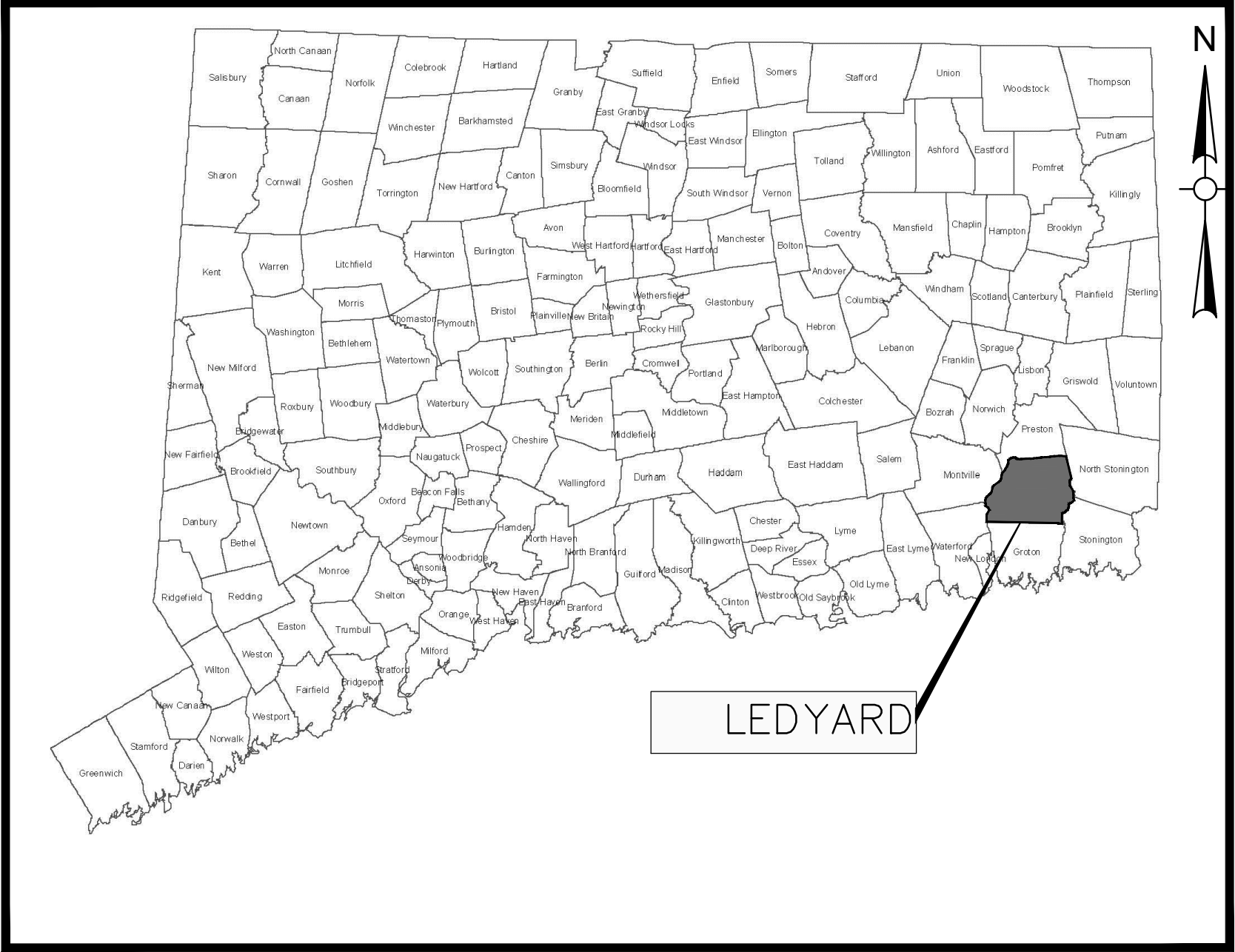


FRED ALLYN, III
MAYOR

STEVE MASALIN, P.E.
DIRECTOR OF PUBLIC WORKS

JOSEPH TILLMAN
HIGHWAY SUPERINTENDENT

COLONEL LEDYARD HIGHWAY MULTI-USE PATHWAY
(STA: 10+00 TO 65+90)



TOWN LOCATION MAP
SCALE: N.T.S.

PROJECT SPECIFICATIONS:
CONNECTICUT DEPARTMENT OF
TRANSPORTATION, STANDARD SPECIFICATIONS
FOR ROADS, BRIDGES, FACILITIES AND
INCIDENTAL CONSTRUCTION, FORM 818, DATED
2020; AND SPECIAL PROVISIONS

SURVEY INFORMATION DERIVED FROM:
WESTON & SAMPSON LAND SURVEYORS, INC.

VERTICAL DATUM - NAVD88
HORIZONTAL DATUM - NAD83

DESIGNED BY:
WESTON & SAMPSON ENGINEERS, INC.
712 BROOK STREET, SUITE 103
ROCKY HILL, CT 06067

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COA:

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Weston & Sampson Engineers, Inc.
712 Brook Street, Suite 103
Rocky Hill, CT 06067

860-513-1473 800.SAMPSON

www.westonandsampson.com

NOT RELEASED FOR CONSTRUCTION

CONSTRUCTION NOTES:

GENERAL:

- SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SHOWN ON THE DRAWINGS TO SCALE OR TO THEIR ACTUAL DIMENSIONS OR LOCATION. COORDINATE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.
- DO NOT RELY SOLELY ON ELECTRONIC VERSIONS OF THESE DRAWINGS, SPECIFICATIONS, AND DATA FILES THAT ARE PROVIDED BY THE ENGINEER. FIELD VERIFY LOCATION OF PROJECT FEATURES.
- THE CONTRACTOR SHALL PERFORM NECESSARY CONSTRUCTION NOTIFICATIONS, APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK AS REQUIRED BY THE CONTRACT DOCUMENTS.
- FENCES, MAIL BOXES, ETC. SHALL BE REMOVED AND REPLACED AS NECESSARY TO PERFORM THE WORK. UNLESS OTHERWISE INDICATED, ALL SUCH WORK SHALL BE PAID FOR UNDER CLEARING AND GRUBBING.
- ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND PAYMENT LIMITS SHALL BE RESTORED AT NO ADDITIONAL COST TO THE TOWN. PAVEMENT SHALL BE REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS AND AS SHOWN ON THE DRAWINGS.
- THE CONTRACTOR SHALL MAINTAIN SIDE SLOPES AND DRAINAGE SWALES DURING CONSTRUCTION TO PREVENT PONDING AND EROSION.
- THE CONTRACTOR SHALL NOT STORE ANY APPARATUS, MATERIALS, SUPPLIES OR EQUIPMENT ON DRAINAGE STRUCTURES OR WITHIN 100 FEET OF WETLANDS.
- THE CONTRACTOR SHALL GRADE PROPOSED SLOPES TO MEET EXISTING SLOPES WHERE SHOWN ON PLANS, IN ACCORDANCE WITH THE MINIMUM AND MAXIMUM SLOPES SPECIFIED.
- ALL STREET EXCAVATIONS SHALL BE COMPLETELY CLOSED AT THE END OF EACH WORKING DAY BY BACKFILLING. COVERING WITH STEEL PLATES MAY BE ALLOWED IF APPROVED BY THE ENGINEER.
- WHERE ENCOUNTERED, UNSUITABLE MATERIAL SHALL BE REMOVED TO A DEPTH OF AT LEAST 12-INCHES BELOW THE BOTTOM OF TRENCH EXCAVATIONS AND REPLACED WITH GRANULAR FILL, UNLESS OTHERWISE SPECIFIED.
- DURING THE PROCESS OF WORK, THE CONTRACTOR SHALL CONDUCT OPERATIONS AND MAINTAIN THE AREA OF CONSTRUCTION ACTIVITIES, INCLUDING SWEEPING AND WATER FOR DUST CONTROL AS NECESSARY, TO MINIMIZE CREATION AND DISPERSION OF DUST.
- WHERE EXISTING FENCES ARE TO BE REMOVED AND RESET, A TEMPORARY CONSTRUCTION FENCE SHALL BE ERECTED AFTER REMOVAL FOR THE PROTECTION OF THE RESIDENTS. TEMPORARY CONSTRUCTION FENCES SHALL BE PAID FOR UNDER CLEARING AND GRUBBING.
- ALL HIGHWAY LINE MONUMENTATION WITHIN THE PROJECT LIMITS MUST BE DELINEATED AND PROTECTED FROM DAMAGE OR MOVEMENT. ANY COST ASSOCIATED WITH RESETTING OF THE MONUMENTATION SHALL BE AT THE CONTRACTOR'S EXPENSE IF DISTURBED BY CONTRACTOR.
- THE CONTRACTOR SHALL COMPLETE ALL LAYOUTS, SURVEYS, ETC. REQUIRED FOR CONSTRUCTION OF THE PROJECT AS SHOWN AND AS SPECIFIED.
- THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE PROPER STORM DRAINAGE AND SANITARY FLOWS ARE MAINTAINED THROUGHOUT THE CONSTRUCTION DURATION.
- ALL PROPOSED MANHOLES, MANHOLE COVERS AND FRAMES, CATCH

BASINS, AND CATCH BASIN GRATES AND FRAMES SHALL CONFORM TO THE REQUIREMENTS AS SHOWN IN THE CONTRACT PLANS AND DOCUMENTS.

- REMOVAL OF ALL TREES WITHIN THE EXCAVATION LINES SHALL BE PAID FOR BY CLEARING AND GRUBBING.
- ALL GUIDE RAIL SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS AND ISSUED REVISIONS/SUPPLEMENTS, AND STANDARD DETAILS.

WORK RESTRICTIONS:

- DO NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, FIRE HYDRANTS, AND UTILITIES WITHOUT APPROPRIATE PERMITS.
- NO WORK WILL BE ALLOWED TO BE PERFORMED ON SUNDAY AND ON ALL TOWN HOLIDAYS WITHOUT TOWN AUTHORIZATION.
- ALL CONSTRUCTION ACTIVITIES, INCLUDING THE LOADING AND UNLOADING OF MATERIALS AND EQUIPMENT, SHALL BE LIMITED TO MONDAY THROUGH FRIDAY FROM 7:00 AM TO 6:00 PM AND SATURDAY FROM 9:00 AM TO 5:00 PM UNLESS OTHERWISE AUTHORIZED BY THE TOWN. TOWN MUST BE NOTIFIED AT LEAST 24-HOURS IN ADVANCE OF ANY WORK ON SATURDAY.

REGULATORY REQUIREMENTS:

- WITHIN LOCAL RIGHTS-OF-WAY, PERFORM THE WORK IN ACCORDANCE WITH THE LATEST EDITION OF THE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS AND ISSUED REVISIONS AS SUPPLEMENTED BY THE TECHNICAL SPECIFICATIONS INCLUDED IN THIS CONTRACT.
- WITHIN STATE RIGHTS-OF-WAY, PERFORM THE WORK IN ACCORDANCE WITH THE LATEST EDITION OF THE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS AND ISSUED REVISIONS/SUPPLEMENTS.
- PROVIDE TRAFFIC SIGNAGE AND PAVEMENT MARKINGS IN CONFORMANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY, PERFORM CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
- DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND LOCAL REQUIREMENTS.

EROSION AND SEDIMENT CONTROL:

- THE CONTRACTOR SHALL INSTALL SPECIFIED EROSION AND CONTROL DEVICES BEFORE BEGINNING OTHER WORK ON SITE AND MAINTAIN THEM FOR THE DURATION OF THE PROJECT.
- CONSTRUCT ALL EROSION AND SEDIMENT CONTROL MEASURES, INCLUDING INLET PROTECTION FOR EXISTING AND PROPOSED CATCH BASINS, IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE MOST RECENT EDITION OF THE "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" (CT DEEP BULLETIN 34). ALL MEASURES SHALL BE MAINTAINED AND UPGRADED TO ACHIEVE PROPER SEDIMENT CONTROL DURING CONSTRUCTION.
- REFER TO THE DRAWINGS FOR EROSION AND SEDIMENT CONTROL LOCATIONS AND DETAILS.
- IMPLEMENT ALL NECESSARY MEASURES REQUIRED TO CONTROL STORMWATER RUNOFF, DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE. PERFORM CORRECTIVE ACTION AS NEEDED FOR EROSION CLEAN-UP AND REPAIRS TO OFF SITE AREAS, IF ANY, AT NO COST TO OWNER.
- EXISTING DRAINAGE STRUCTURES AND PIPES ARE TO BE CLEANED AND FLUSHED WHERE INDICATED ON THE PLANS AND SHALL BE PAID FOR BY

"CLEAN EXISTING DRAINAGE SYSTEM".

- INSPECT AND MAINTAIN EROSION CONTROL MEASURES WEEKLY AND AFTER MAJOR RAINFALL EVENTS, DISPOSE OF SEDIMENT IN AN UPLOAD AREA. DO NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.
- UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, REMOVE AND DISPOSE OF TEMPORARY EROSION CONTROL MEASURES. CLEAN SEDIMENT AND DEBRIS FROM TEMPORARY MEASURES AND FROM PERMANENT STORM DRAIN AND SANITARY SEWER SYSTEMS.

UTILITIES:

- THE CONTRACTOR SHALL NOTIFY "CALL BEFORE YOU DIG" AT 1-800-922-4455 AND THE TOWN AT LEAST 72 HOURS PRIOR TO EXCAVATING AT ANY LOCATION, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS. A COPY OF THE CBYD PROJECT REFERENCE NUMBER(S) SHALL BE PROVIDED WHEN COMPLETING THE HIGHWAY PERMIT APPLICATION. EXCAVATION SHALL COMMENCE ONCE A HIGHWAY PERMIT IS RECEIVED BY THE CONTRACTOR.
- LOCATIONS OF EXISTING PIPES, CONDUITS, UTILITIES, FOUNDATIONS AND OTHER UNDERGROUND OBJECTS ARE NOT WARRANTED TO BE CORRECT AND THE CONTRACTOR SHALL HAVE NO CLAIM ON THAT ACCOUNT SHOULD THEY BE OTHER THAN SHOWN.
- TEST PITS TO LOCATE EXISTING UTILITIES MAY BE ORDERED BY THE ENGINEER AND SHALL BE PAID FOR UNDER ITEM "TEST PIT".
- THE CONTRACTOR SHALL TERMINATE EXISTING UTILITIES IN CONFORMANCE WITH LOCAL, STATE AND INDIVIDUAL UTILITY COMPANY STANDARD SPECIFICATIONS AND DETAILS. COORDINATE UTILITY SERVICE DISCONNECTS WITH UTILITY REPRESENTATIVES.
- THE CONTRACTOR SHALL COORDINATE THE WORK AND WORK SCHEDULE WITH UTILITY COMPANIES. PROVIDE ADEQUATE NOTICE TO UTILITIES TO PREVENT DELAYS IN CONSTRUCTION. VALVES AND SERVICE CURB STOPS ARE TO BE OPERATED BY GROTON UTILITY STAFF ONLY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESETTING OF FRAMES, GRATES, GATES, VALVE BOXES ETC., WHICH SHALL BE DONE IN ACCORDANCE WITH INDIVIDUAL UTILITY COMPANY REQUIREMENTS.
- RIM ELEVATIONS FOR MANHOLES, VALVE COVERS, GATE AND PULL BOXES, AND OTHER STRUCTURES SHALL BE SET OR RESET FLUSH WITH FINAL GRADES.
- EXISTING STRUCTURES SHALL BE CORED PRIOR TO INSTALLING PIPE.

SURVEY NOTES:

- THIS SURVEY AND MAP HAS BEEN PREPARED IN ACCORDANCE WITH THE REGULATIONS OF CONNECTICUT STATE AGENCIES, SECTIONS 20-300b-1 THRU 20-300b-20 AS AMENDED, AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. THE TYPE OF SURVEY IS AN EXISTING CONDITIONS SURVEY, NO BOUNDARY DETERMINATION / OPINION HAS BEEN DEVELOPED. THIS SURVEY CONFORMS TO THE FOLLOWING ACCURACY CLASSES: HORIZONTAL CLASS A-2, TOPOGRAPHIC CLASS T-3, AND VERTICAL CLASS V-3.
- PROPERTY LINES AND RIGHT OF WAY LINES DEPICTED, WERE DEVELOPED VIA GIS AND TAX MAPS AND ARE APPROXIMATE ONLY.
- ELEVATIONS AND CONTOURS AS DEPICTED HEREON REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD) AS ESTABLISHED USING GPS SURVEY METHODS IN MARCH, 2021.
- SURVEY PERFORMED BY WESTON & SAMPSON LAND SURVEYORS, INC. IN MARCH, 2021.
- THE UTILITIES AS DEPICTED HEREON ARE BASED UPON OBSERVED EVIDENCE AT THE TIME OF THE FIELD SURVEY. NO ATTEMPT WAS MADE TO VERIFY THE LOCATIONS AND NO MAPPING WAS OBTAINED FROM THE RESPECTIVE UTILITY COMPANIES, GOVERNMENTAL AGENCIES AND/OR OTHER SOURCES. THESE LOCATIONS MUST BE CONSIDERED APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST ON THE SITE, THE EXISTENCE OF WHICH ARE UNKNOWN TO WESTON & SAMPSON. THE EXISTENCE, SIZE AND LOCATION OF ALL SUCH FEATURES MUST BE DETERMINED AND VERIFIED IN THE FIELD BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION. CALL BEFORE YOU DIG.

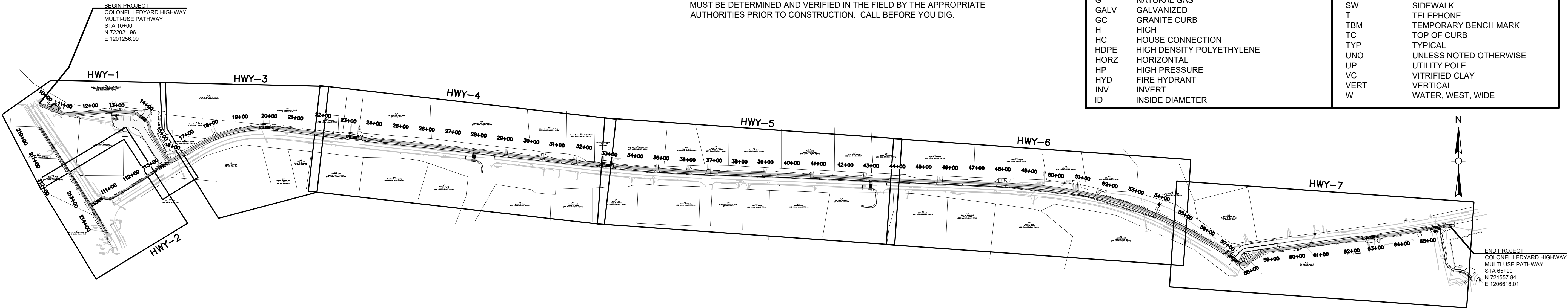
LEGEND

DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED
SANITARY SEWER	8" PVC SAN.	8" PVC SAN.	FENCE	X	X
WATER MAIN	W	W	INDIVIDUAL DECIDUOUS TREE	☀	☀
STORM DRAIN	D	D	INDIVIDUAL EVERGREEN TREE	☀	☀
ELECTRIC	E	E	TREE LINE	☀	☀
TELEPHONE	T	T	BUSH	☀	☀
SANITARY SEWER LATERAL	SS	SS	STUMP	☀	☀
WATER SERVICE	WS	WS	SURVEY MARKER	☀	☀
SANITARY SEWER MANHOLE	SMH	SMH	PROPERTY LINE	---	---
STORM DRAIN MANHOLE	DMH	DMH	EASEMENT LINE	---	---
ELECTRICAL MANHOLE	EMH	EMH	SPOT ELEVATIONS	× 100.2	× 101.5
TELEPHONE MANHOLE	TMH	TMH	CONTOUR LINES	56	56
CATCH BASIN	☀	☀	DEPRESSION CONTOUR LINES	☀	☀
HYDRANT	☀	☀	HOUSE NUMBER	#35	☀
WATER GATE	WG	WG	FLOOR ELEVATION	FL=56.7	☀
SPRINKLER HEAD	☀	☀	SILL ELEVATION	S=56.7	☀
UTILITY POLE	☀	☀	WETLAND	☀	☀
GUY POLE	☀	☀	WETLAND FLAGS	☀	☀
GUY WIRE	☀	☀	GRASS PAVERS	☀	☀
OVERHEAD WIRE	☀	☀	GUIDE RAIL	☀	☀
LIGHT POST	☀	☀	POST	☀	☀
EDGE OF PAVEMENT	---	---	SIGN	☀	☀
EDGE OF UNPAVED ROAD	---	---	BENCH MARK	☀	☀
SAFETY EDGE	---	---	TEST PIT	TP-1	☀
BERM	---	---	BORING	B-1	☀
SIDEWALK	CONC. WALK	CONC. WALK	DRAINAGE DITCH / SWALE	---	---
BOULDER	☀	☀	MAILBOX	☀	☀
STONE WALL	☀	☀	FENCE	X	X
RETAINING WALL	RET. WALL	RET. WALL			

ITEMS SHOWN IN THE LEGEND MAY NOT BE PRESENT IN THESE PLANS

ABBREVIATIONS

AC	ASBESTOS CEMENT PIPE	IP	IRON PIPE
BC	BITUMINOUS CONCRETE, BOTTOM OF CURB	LF	LINEAR FEET
BIT	BITUMINOUS	LPS	LOW PRESSURE SEWER
BLDG	BUILDING	LS	LUMP SUM
BM	BENCH MARK	MAX	MAXIMUM
CATV	CABLE TELEVISION	MB	MAIL BOX
CB	CATCH BASIN	MECH	MECHANICAL
CC	CONCRETE CURB	MH	MANHOLE
CI	CAST IRON	MIN	MINIMUM
CL	CENTERLINE	MISC	MISCELLANEOUS
CMP	CORRUGATED METAL PIPE	N	NORTH
CONC	CONCRETE	NF	NOT FOUND
CP	CONTROL POINT	NO OR #	NUMBER
CU FT	CUBIC FEET	PE	POLYETHYLENE
CY	CUBIC YARD	PVC	PROPERTY LINE
DI	DROP INLET, DUCTILE IRON	PR	POLYVINYL CHLORIDE
DIA	DIAMETER	PVMT	PROPOSED
DMH	DRAIN MANHOLE	RCP	PAVEMENT
E	ELECTRIC, EAST	ROW	REINFORCED CONCRETE PIPE
EA	EACH	S	RIGHT-OF-WAY
EL	ELEVATION	SF	SEWER, SOUTH
EOP	EDGE OF PAVEMENT	SPEC	SQUARE FEET
EW	EACH WAY	SQ FT	SPECIFICATIONS
EX	EXISTING	SS	SQUARE FEET
FT	FEET, FOOT	STA	SEWER SERVICE
G	NATURAL GAS	SW	STATION
GALV	GALVANIZED	T	SIDEWALK
GC	GRANITE CURB	TBM	TELEPHONE
H	HIGH	TC	TEMPORARY BENCH MARK
HC	HOUSE CONNECTION	TYP	TOP OF CURB
HDPE	HIGH DENSITY POLYETHYLENE	UNO	TYPICAL
HORZ	HORIZONTAL	UP	UNLESS NOTED OTHERWISE
HP	HIGH PRESSURE	VC	UTILITY POLE
HYD	FIRE HYDRANT	VERT	VITRIFIED CLAY
INV	INVERT	W	VERTICAL
ID	INSIDE DIAMETER		WATER, WEST, WIDE



INDEX PLAN - COLONEL LEDYARD HIGHWAY
MULTI-USE PATHWAY

SCALE 1"=200'

Project: TOWN OF LEDYARD, CT



LEDYARD HIGH SCHOOL
MULTI-USE PATHWAY &
SIDEWALK EXTENSION
L171-0001

741 COLONEL LEDYARD HIGHWAY
LEDYARD, CT 06339

Weston & Sampson

Weston & Sampson Engineers, Inc.
712 Brook Street, Suite 103
Rocky Hill, CT 06067
978.532.1900 800.SAMPSON
www.westonandsampson.com

Consultants:

Revisions:

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INDEX PLAN,
LEGEND, AND
GENERAL NOTES

Sheet Number:

GEN-01

SEDIMENTATION AND EROSION CONTROL PLAN

GENERAL

THIS PLAN PROPOSES EROSION CONTROL MEASURES TO ADEQUATELY CONTROL ACCELERATED EROSION AND SEDIMENTATION AND REDUCE THE DANGER FROM STORM WATER RUNOFF AT THE SITE. THE RUNOFF SHALL BE CONTROLLED BY THE INTERCEPTION, DIVERSION, AND SAFE DISPOSAL OF PRECIPITATION. RUNOFF SHALL ALSO BE CONTROLLED BY STAGING CONSTRUCTION ACTIVITY AND PRESERVING NATURAL VEGETATION WHENEVER POSSIBLE.

EXISTING VEGETATION SHALL BE PROTECTED AND ONLY THAT CLEARING AND GRUBBING ABSOLUTELY NECESSARY FOR THE PROPOSED CONSTRUCTION SHALL BE PERFORMED. ALL DISTURBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND CONTOUR, UNLESS OTHERWISE INDICATED ON THE PLANS. THE CONTRACTOR SHALL TAKE SPECIAL CARE WITH HIS CONSTRUCTION METHODS AND SHALL COMPLY WITH THE FOLLOWING GUIDELINES.

REFERENCE IS MADE TO THE "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" (2002), AS AMENDED. THE GUIDELINES ARE OBTAINABLE ONLINE FROM THE CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION AT WWW.CT.GOV/DEEP AND SHOULD BE USED AS A REFERENCE IN CONSTRUCTING THE EROSION AND SEDIMENT CONTROLS INDICATED ON THESE PLANS.

SEDIMENTATION CONTROL

ALL AREAS SHALL BE PROTECTED FROM SEDIMENTATION DURING AND AFTER CONSTRUCTION, PARTICULARLY THE STORAGE OF EXCAVATED OR STOCKPILED MATERIAL. THE CONTRACTOR SHALL CAREFULLY STRIP ALL TOPSOIL, LOAM, OR ORGANIC MATTER PRIOR TO TRENCHING OR OTHER OPERATIONS AND SHALL STORE THEM SEPARATELY FROM ALL OTHER MATERIALS DURING EXCAVATION. EACH STOCKPILE MUST BE ADEQUATELY RINGED WITH SEDIMENT CONTROL MATERIAL (I.E. SILT FENCE).

STABILIZING OF SLOPES SHALL BE DONE IMMEDIATELY AFTER CONSTRUCTION OF SLOPES. SLOPES THAT ARE STEEPER THAN 2:1 SHALL BE PROTECTED WITH EROSION CONTROL MATTING TYPE H. ALL OTHER AREAS SHALL BE MULCHED WITH HAY OR STRAW AS REQUIRED.

EROSION AND SEDIMENTATION CONTROL PLAN

SEDIMENTATION CONTROL SYSTEM – THE SEDIMENTATION CONTROL SYSTEM SHALL CONSIST OF SILT FENCE.

GEOTEXTILE BARRIER FENCE – THE SEDIMENTATION CONTROL SYSTEM SHALL BE INSTALLED IMMEDIATELY AFTER A CUT SLOPE HAS BEEN GRADED, BEFORE A FILL SLOPE HAS BEEN CREATED AND AS INDICATED ON THE PLANS. THE SYSTEM IS DESIGNED TO INTERCEPT SILT AND SEDIMENT BEFORE IT REACHES THE WETLAND AREAS, OR WATERCOURSES. DEPOSITS OF SEDIMENT AND SILT ARE TO BE PERIODICALLY REMOVED FROM THE UPSTREAM SIDE OF THE FENCE. THIS MATERIAL IS TO BE SPREAD AND STABILIZED IN AREAS NOT SUBJECT TO EROSION, OR IN AREAS WHICH ARE NOT TO BE PAVED OR BUILT ON. THE SEDIMENTATION CONTROL SYSTEM IS TO BE REPLACED AS NECESSARY TO PROVIDE PROPER FILTERING ACTION. THE SYSTEM IS TO REMAIN IN PLACE AND BE MAINTAINED TO INSURE EFFICIENT SILTATION CONTROL UNTIL ALL AREAS ABOVE THE FENCE ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED.

RIPRAP – RIPRAP, IF REQUIRED OR SPECIFIED, IS TO BE INSTALLED AS ENERGY, DISSIPATION STRUCTURES. THE RIPRAP IS TO BE INSTALLED BEFORE OUTLET STRUCTURES ARE ACTIVATED, AND ALL ADJACENT AREAS ARE TO BE IMMEDIATELY SEEDED IF IN SEASON OTHERWISE THE SOIL IS TO BE STABILIZED BY OTHER METHODS.

IN ALL AREAS, REMOVAL OF TREES, BUSHES AND OTHER VEGETATION, AND DISTURBANCE OF THE SOIL, IS TO BE KEPT TO AN ABSOLUTE MINIMUM WHILE ALLOWING PROPER DEVELOPMENT OF THE SITE.

DURING CONSTRUCTION, AS SMALL AN AREA OF SOIL AS POSSIBLE SHOULD BE EXPOSED FOR AS SHORT A TIME AS POSSIBLE. AFTER CONSTRUCTION, GRADE, RESPREAD TOPSOIL, AND STABILIZE SOIL BY SEEDING AND MULCHING SO AS TO PREVENT EROSION.

SEDIMENTATION AND EROSION CONTROL MAINTENANCE PROCEDURES

ALL SEDIMENTATION AND EROSION CONTROL DEVICES SHALL BE INSPECTED DURING CONSTRUCTION ON A WEEKLY BASIS, AND FOLLOWING ALL STORMS, BY THE RESIDENT ENGINEER. THE CONTRACTOR SHALL MAINTAIN AND MAKE REPAIRS AND REMOVE SEDIMENT AS REQUESTED BY THE RESIDENT ENGINEER. THIS WORK SHALL BE PERFORMED WITHIN 24 HOURS OF THE REQUEST AND THERE SHALL BE NO SEPARATE PAYMENT FOR THIS WORK.

THE CONTRACTOR SHALL PROVIDE ROUTINE SWEEPING OF ALL PAVED SURFACES SUBJECT TO SEDIMENT ACCUMULATION DURING CONSTRUCTION ACTIVITIES.

THE CONTRACTOR SHALL CLEAN SEDIMENT AND DEBRIS FROM ALL DRAINAGE STRUCTURES, AND PIPES AT THE COMPLETION OF CONSTRUCTION, AND AS REQUESTED BY THE RESIDENT ENGINEER TO KEEP THE SYSTEM FUNCTIONING PROPERLY DURING CONSTRUCTION.

FOLLOWING COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL REPAIR ALL ERODED AREAS AND ENSURE A GOOD STAND OF TURF IS ESTABLISHED THROUGHOUT. THE CONTRACTOR SHALL REPAIR ALL ERODED OR DISPLACED RIPRAP, AND CLEAN SEDIMENT COVERED STONES.

TYPICAL CONSTRUCTION SEQUENCE

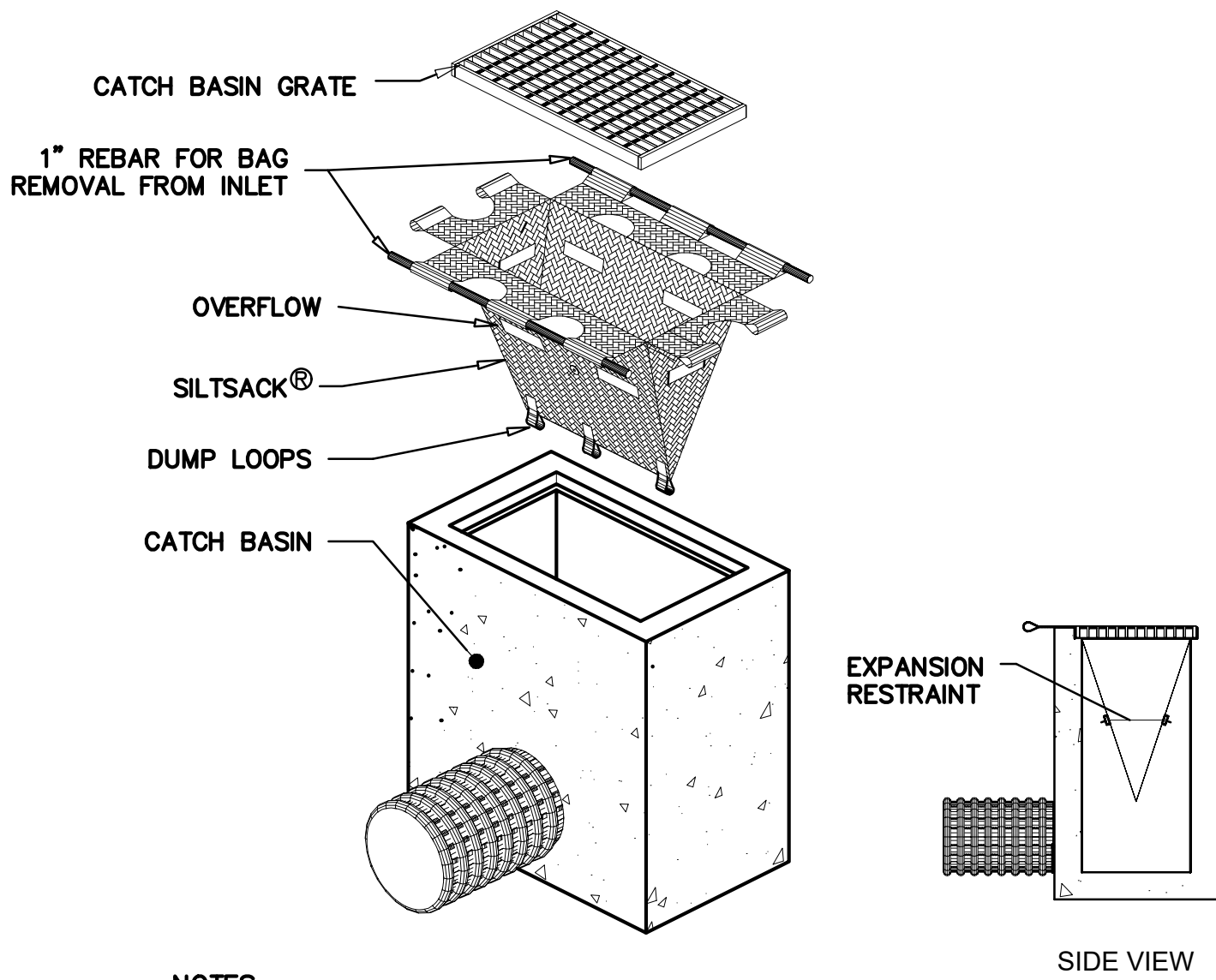
PRIOR TO COMMENCEMENT OF WORK, EROSION AND SEDIMENT CONTROL STRUCTURES SHALL BE INSTALLED. A TYPICAL SEQUENCE OF CONSTRUCTION IS:

1. OBTAIN APPROPRIATE PERMITS, NOTIFY TOWN OFFICIALS OF CONSTRUCTION COMMENCEMENT, AND SUBMIT CONSTRUCTION TIMETABLE.
2. ON-SITE CONSTRUCTION SEQUENCE SHALL START WITH THE MINIMUM AMOUNT OF CLEARING REQUIRED TO INSTALL EROSION CONTROL MEASURES AS SHOWN ON PLAN. THIS INCLUDES SILTATION FENCING, SILT CURTAIN, AND OTHER MEASURES NOTED ON THE PLAN. NO WORK SHALL TAKE PLACE UNTIL THE ENGINEER AND WETLAND ENFORCEMENT OFFICER HAVE INSPECTED AND APPROVED INSTALLED MEASURES.

DURING CONSTRUCTION ALL EROSION AND SEDIMENT STRUCTURES SHALL BE MAINTAINED IN PROPER WORKING ORDER. DISTURBED AREAS SHALL BE KEPT TO A MINIMUM AND SHALL ONLY TAKE PLACE WHERE IMMEDIATELY REQUIRED TO FURTHER CONSTRUCTION. IT IS DESIRABLE FROM AN EROSION PREVENTION CONCERN TO MINIMIZE DISTURBED AREAS. FINAL GRADING AND SEEDING SHALL TAKE PLACE AS SOON AS PRACTICAL.

A RAIN GAUGE SHALL BE PLACED AT THE PROJECT SITE IN A WORKABLE LOCATION AND MONITORED DURING RAINFALL PERIODS UNTIL ALL DISTURBED AREAS ARE STABILIZED. IN THE EVENT THERE IS A RAINFALL GREATER THAN 1/2" IN A 12 HOUR PERIOD, ALL EROSION CONTROL MEASURES SHALL BE CHECKED AND REPAIRED AS REQUIRED. IF NO RAIN GAUGE IS USED, ALL EROSION CONTROL MEASURES SHALL BE CHECKED AFTER ALL RAINFALL EVENTS.

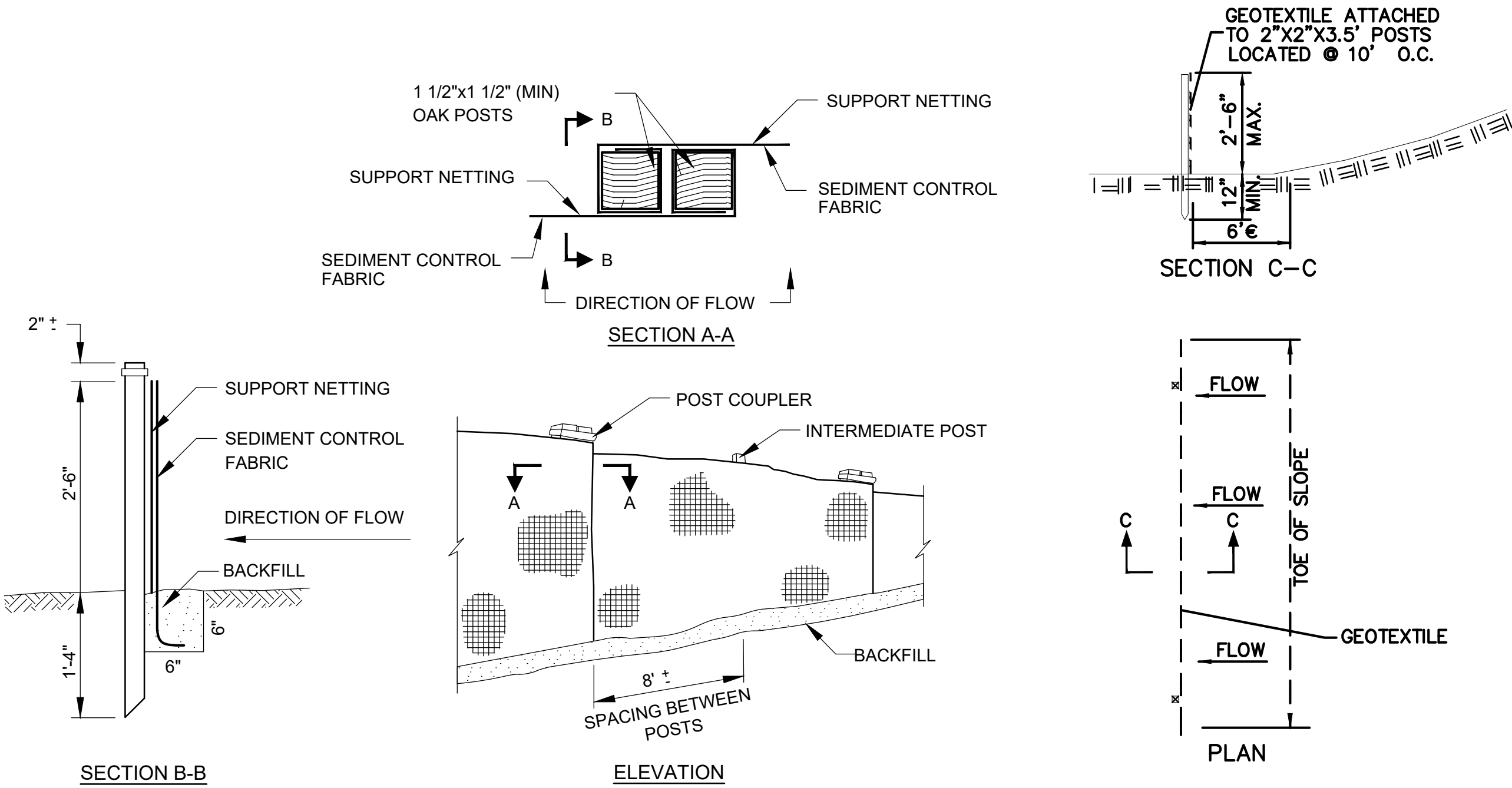
A CHECK LIST PROVIDED BY THE ENGINEER SHALL BE FILLED OUT EVERY WEEK OR AFTER EACH RAINFALL EVENT OF 1/2" OR GREATER.



- NOTES:
1. PROVIDE HI-FLOW SILT SACK TYPE A FOR TYPE "C-L" CATCH BASIN TOPS AND TYPE B WITH CURB DEFLECTOR FOR TYPE "C" CATCH BASIN TOPS OR OTHER STRUCTURES WITH CURB INLET.

CATCH BASIN INLET PROTECTION

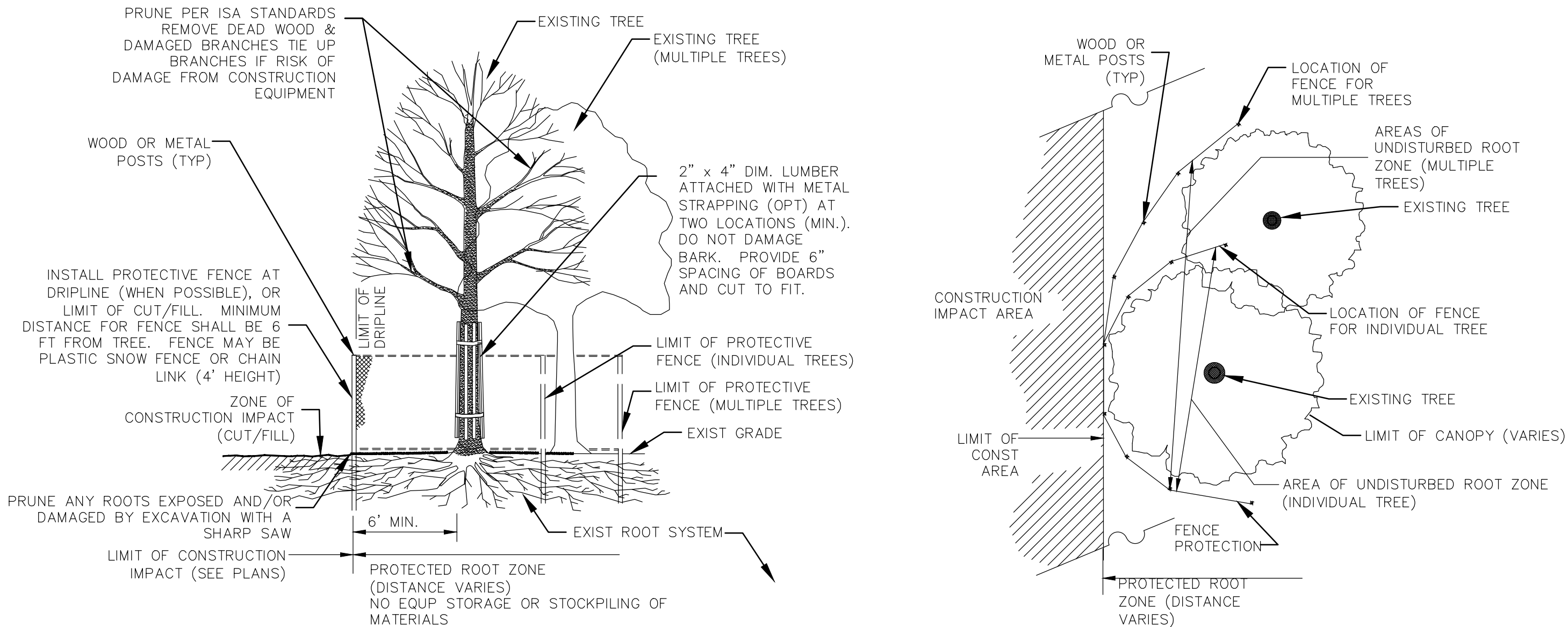
N.T.S.



SEDIMENTATION AND EROSION CONTROL DETAIL

(SILT FENCE)

N.T.S.



EXISTING TREE PROTECTION

N.T.S.

Project: TOWN OF LEDYARD, CT



LEDYARD HIGH SCHOOL
MULTI-USE PATHWAY &
SIDEWALK EXTENSION
L171-0001

741 COLONEL LEDYARD HIGHWAY
LEDYARD, CT 06339

Weston & Sampson

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W&S Project No.: ENG20-1119

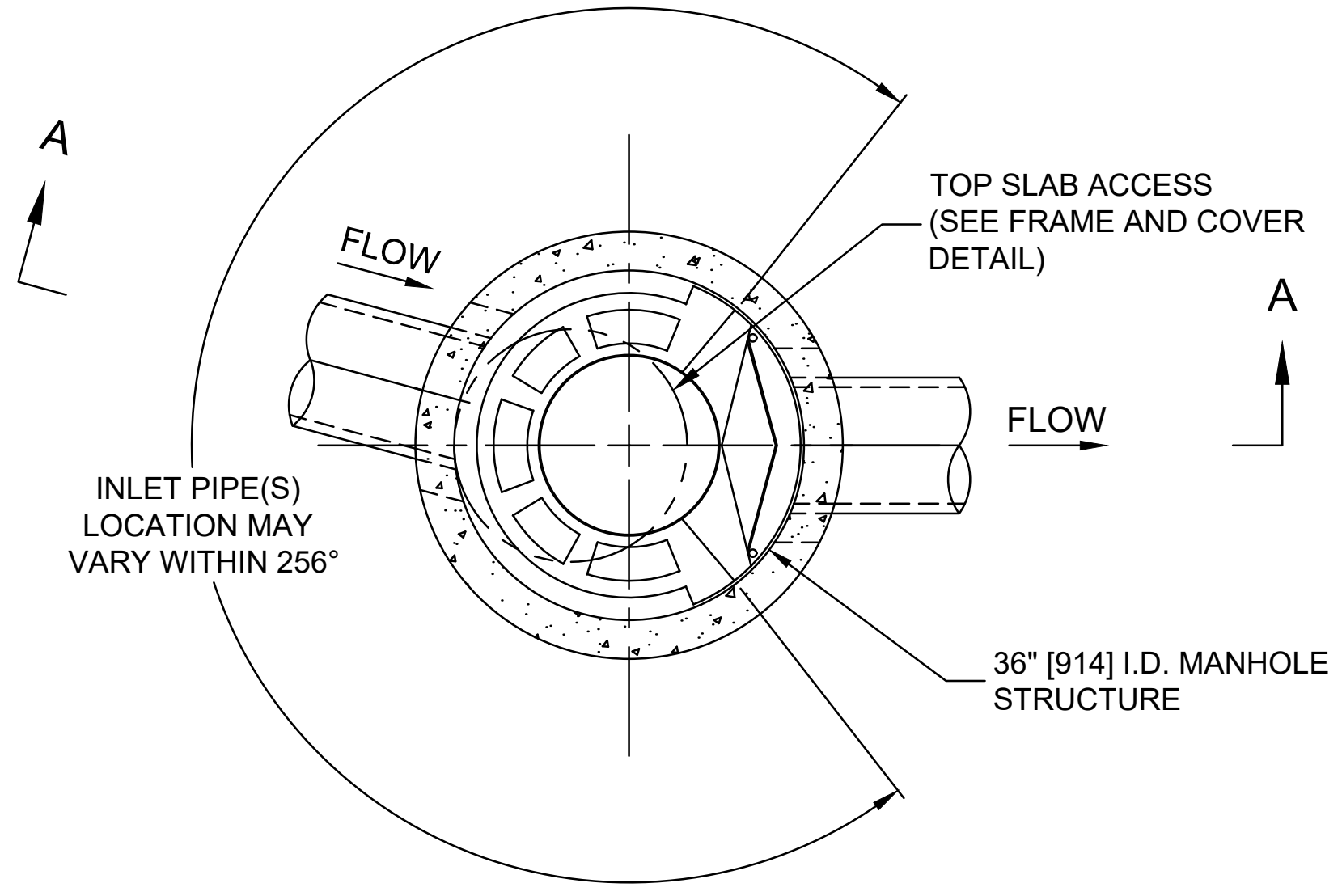
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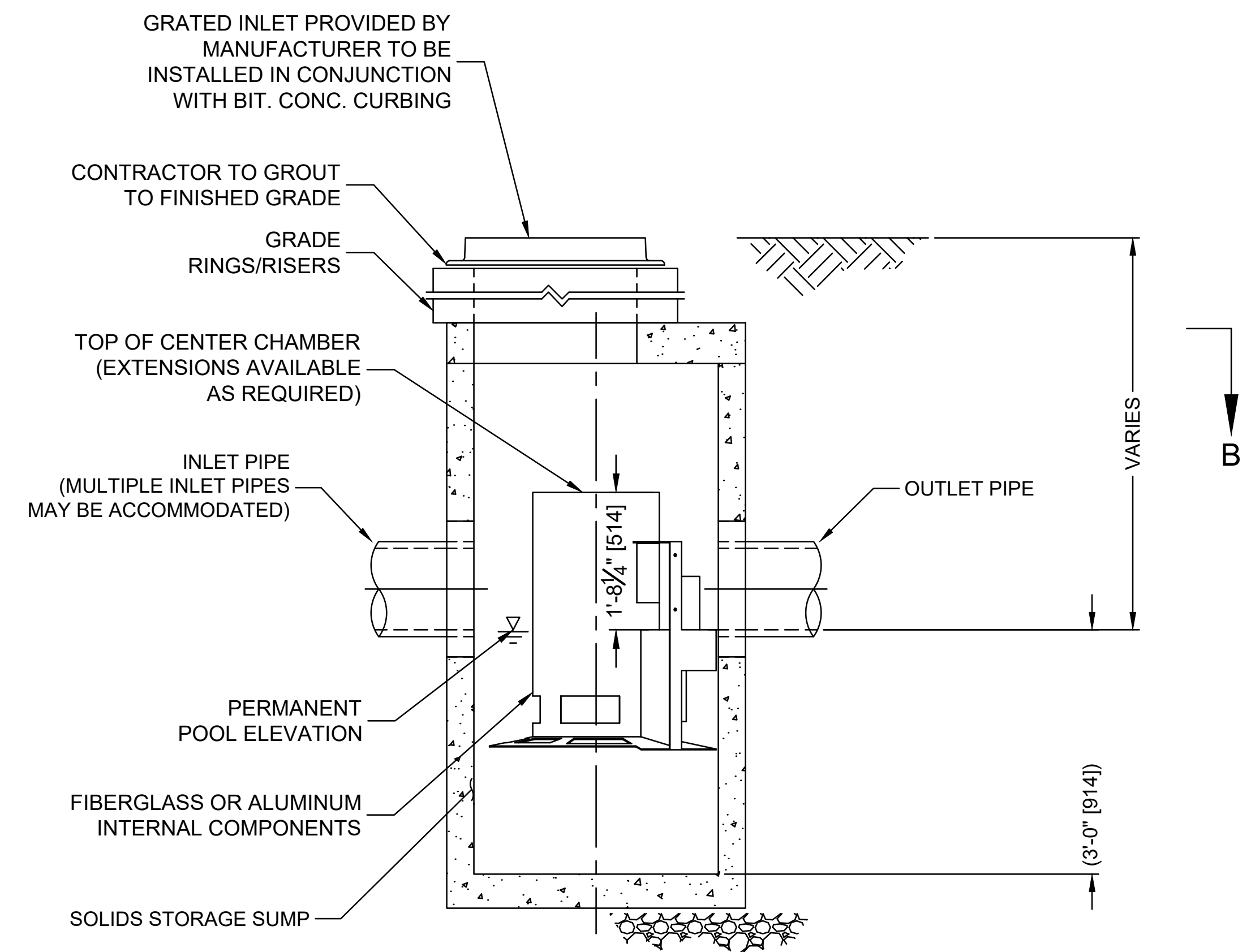
SEDIMENTATION AND
EROSION CONTROL
DETAILS

Sheet Number:

DET-01



PLAN VIEW B-B
NOT TO SCALE



ELEVATION A-A
NOT TO SCALE

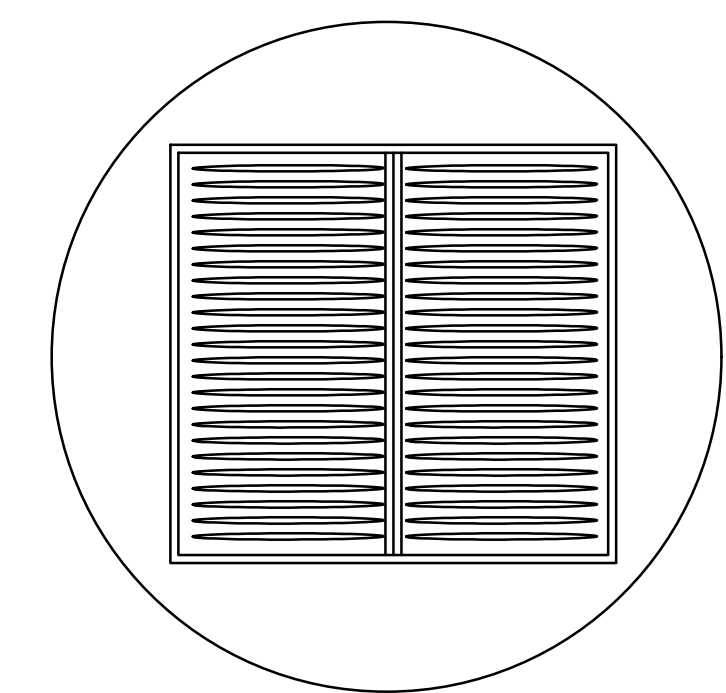
CASCADE
separator™

CASCADE SEPARATOR DESIGN NOTES

THE STANDARD CS-3 CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

CONFIGURATION DESCRIPTION

GRATED INLET ONLY (NO INLET PIPE)	
GRATED INLET WITH INLET PIPE OR PIPES	<u>CHOSEN CONFIGURATION</u>
CURB INLET ONLY (NO INLET PIPE)	
CURB INLET WITH INLET PIPE OR PIPES	



FRAME AND GRATE
(DIAMETER VARIES)
NOT TO SCALE

**SITE SPECIFIC
DATA REQUIREMENTS**

STRUCTURE ID			STA. 54+00
WATER QUALITY FLOW RATE (cfs [L/s])			0.08 cfs
PEAK FLOW RATE (cfs [L/s])			5.28 cfs
RETURN PERIOD OF PEAK FLOW (yrs)			10-YR.
RIM ELEVATION			244.13
PIPE DATA:	INVERT	MATERIAL	DIAMETER
INLET PIPE 1	240.88	RCP	15"
INLET PIPE 2			
OUTLET PIPE	240.80	RCP	18"

GENERAL NOTES

- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
- CASCADE SEPARATOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
- CASCADE SEPARATOR STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2' [610], AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306, SHALL BE MADE IN USA, AND BE CAST WITH THE CONTECH LOGO.
- CASCADE SEPARATOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN METHOD.
- ALTERNATE UNITS ARE SHOWN IN MILLIMETERS [mm].

INSTALLATION NOTES

- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CASCADE SEPARATOR MANHOLE STRUCTURE.
- CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
- CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

CONTECH
ENGINEERED SOLUTIONS LLC
www.contechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

CS-3
CASCADE SEPARATOR
STANDARD DETAIL

Project:
TOWN OF LEDYARD, CT



LEDYARD HIGH SCHOOL
MULTI-USE PATHWAY &
SIDEWALK EXTENSION
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W&S File No.:

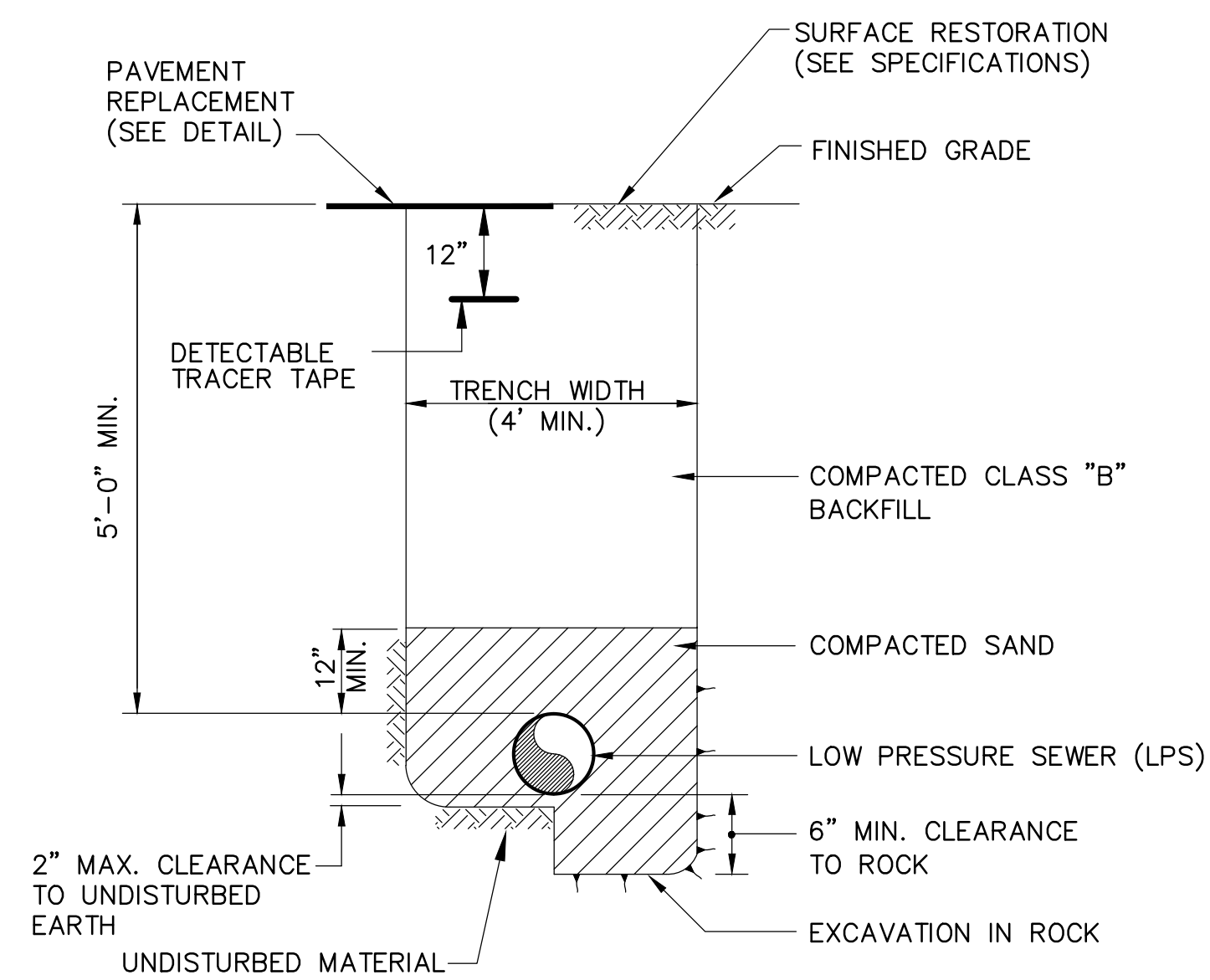
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HYDRODYNAMIC
SEPARATOR
DETAILS

Sheet Number:

DET-03

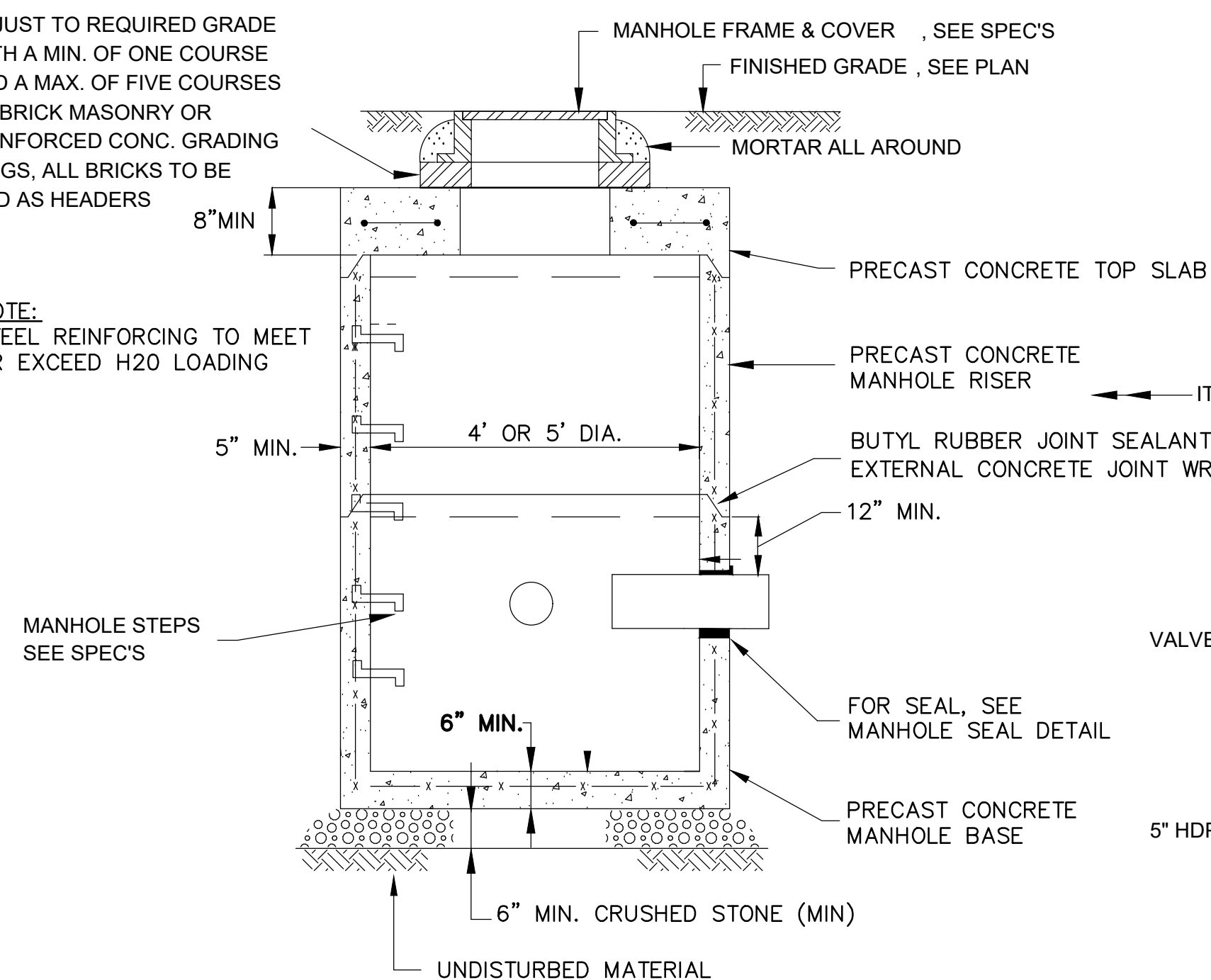
Rev: 1.6 Date: 04/10/2019



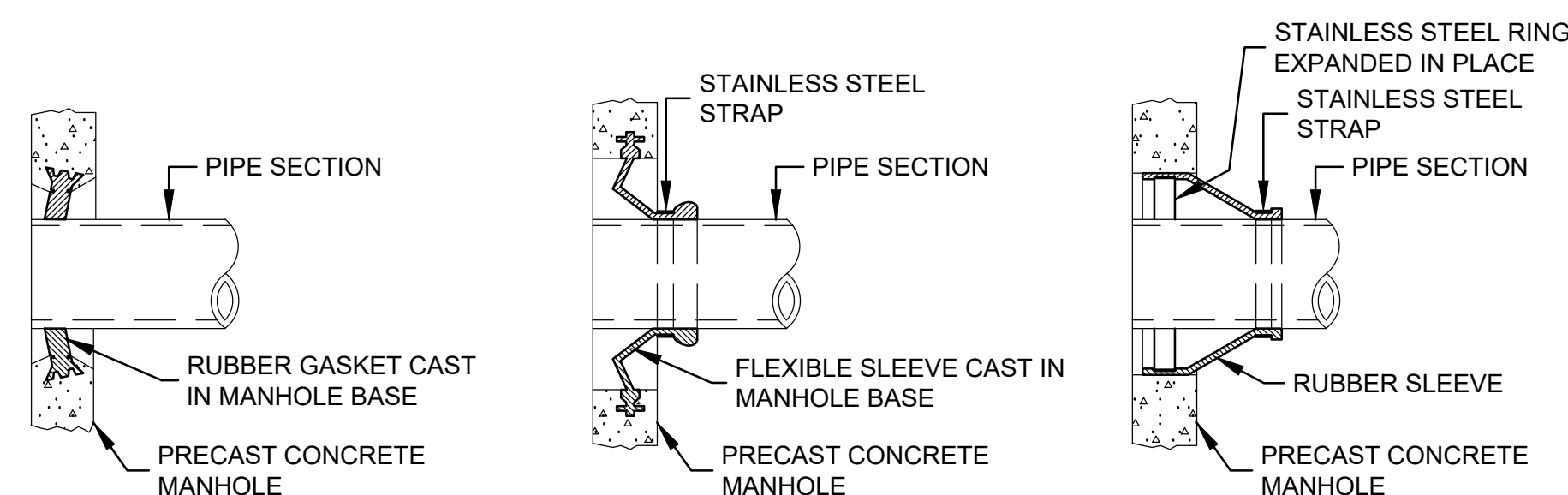
LOW PRESSURE SEWER (LPS) TRENCH DETAIL
N.T.S.

ADJUST TO REQUIRED GRADE WITH A MIN. OF ONE COURSE AND A MAX. OF FIVE COURSES OF BRICK MASONRY OR REINFORCED CONC. GRADING RINGS, ALL BRICKS TO BE LAID AS HEADERS

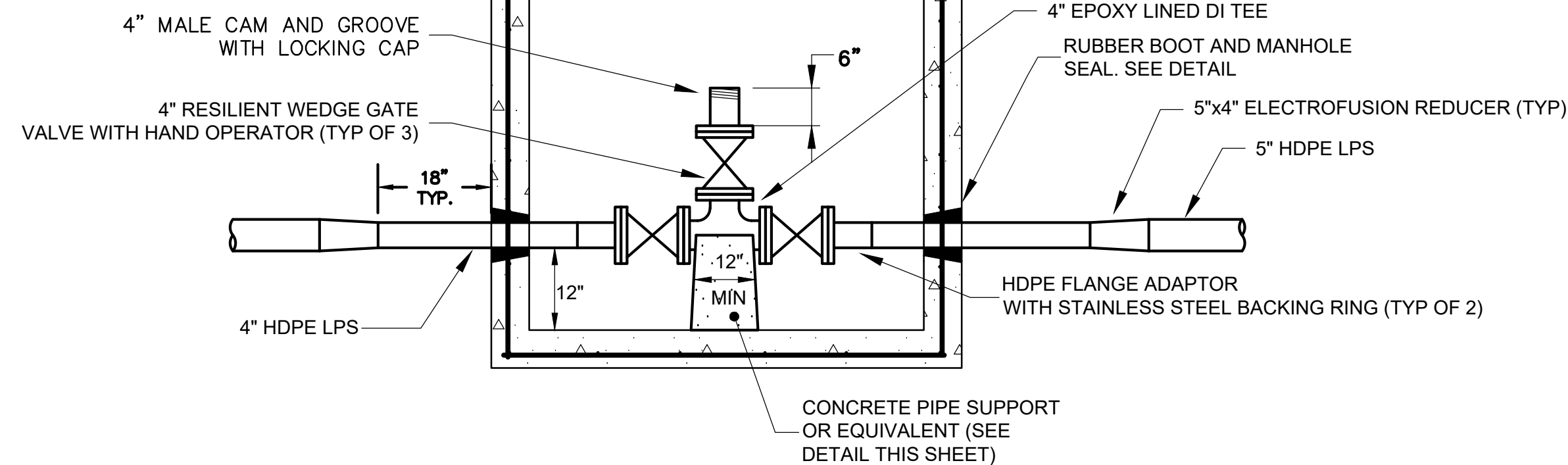
NOTE: STEEL REINFORCING TO MEET OR EXCEED H20 LOADING



PRECAST CONCRETE MANHOLE DETAIL
N.T.S.

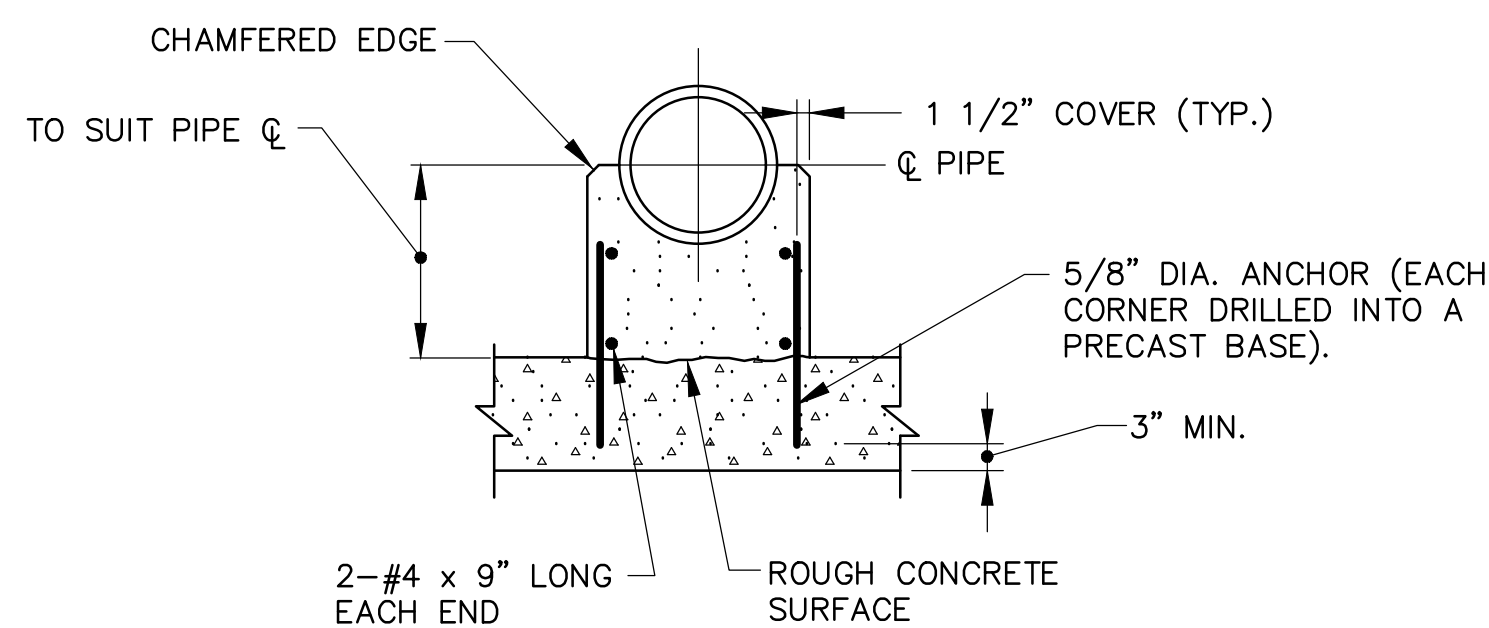


MANHOLE SEAL DETAILS
N.T.S.

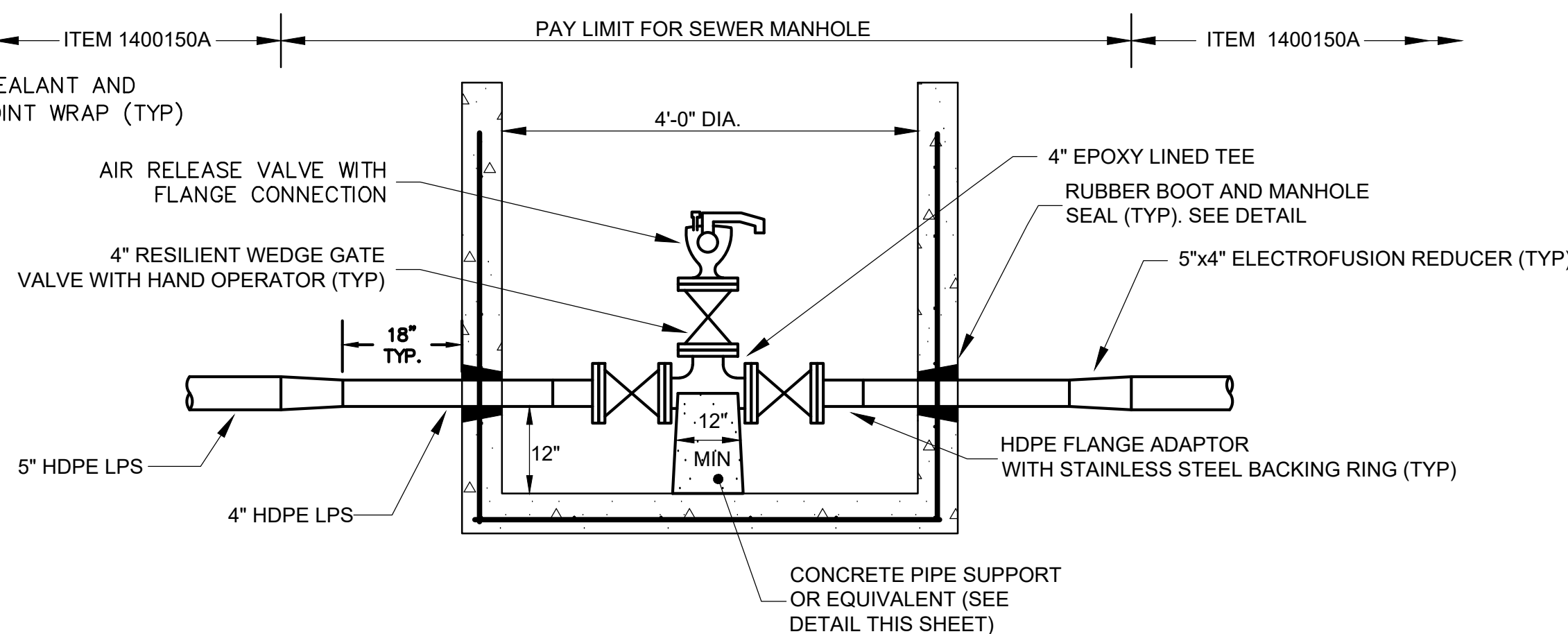


NOTE: ALL MANHOLE MATERIALS TO BE AS SHOWN ON TYPICAL PRECAST MANHOLE DETAIL.

LPS CLEANOUT MANHOLE DETAIL
N.T.S.

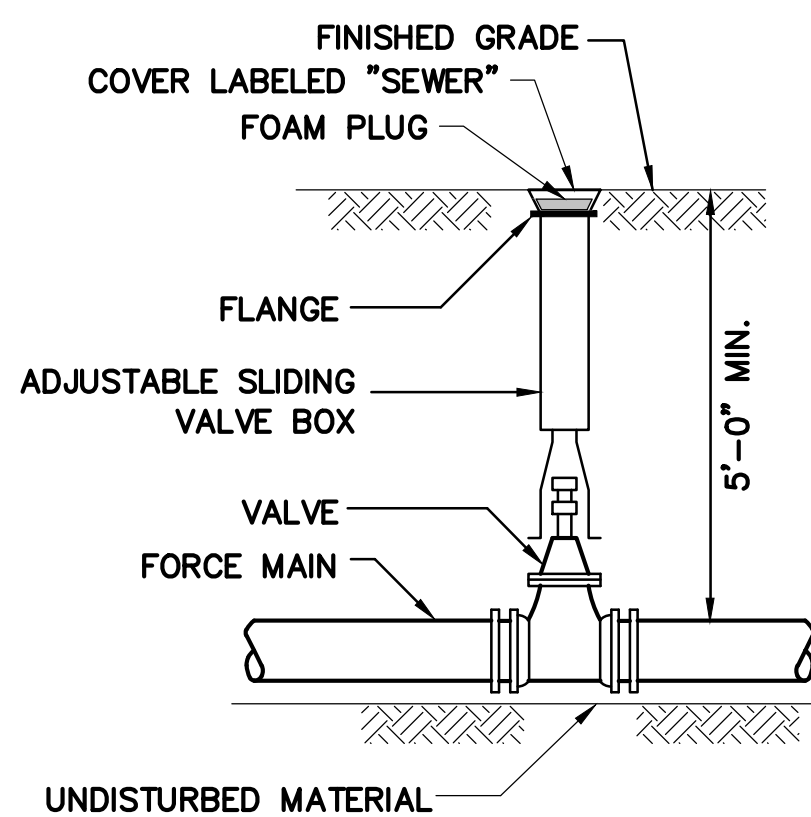


CONCRETE PIPE SUPPORT
N.T.S.

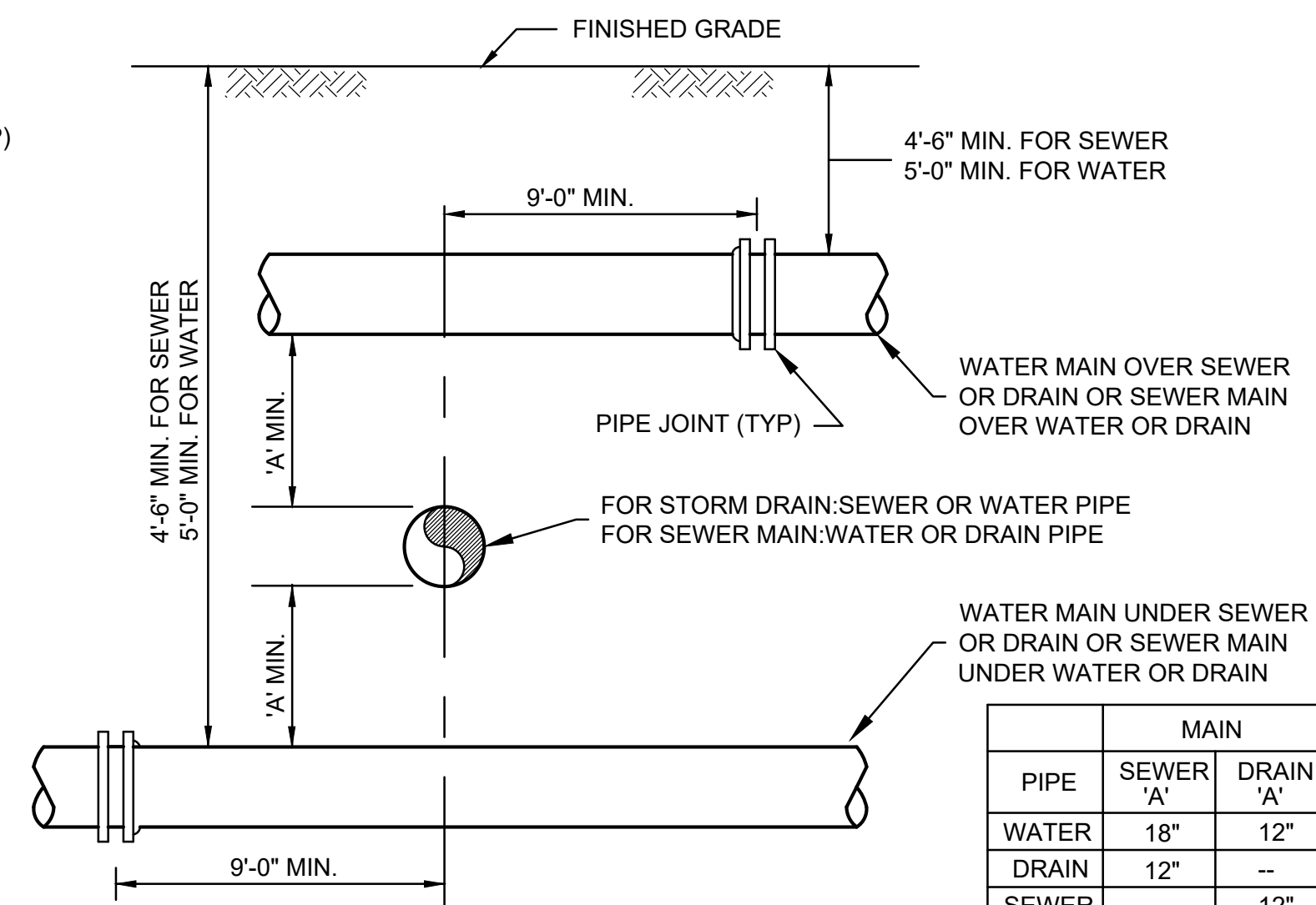


NOTE: ALL MANHOLE MATERIALS TO BE AS SHOWN ON TYPICAL PRECAST MANHOLE DETAIL.

LPS AIR RELEASE MANHOLE DETAIL
N.T.S.



VALVE AND BOX DETAIL
N.T.S.



WATER, SEWER OR DRAIN CROSSING DETAIL
N.T.S.

MAIN			
PIPE	SEWER 'A'	DRAIN 'A'	
WATER	18"	12"	
DRAIN	12"	--	
SEWER	--	12"	

PAYMENT LIMITS FOR "SEWER MANHOLE - ITEM 1403001A" MAY VARY. SEE RESPECTIVE SEWER MANHOLE DETAILS FOR LIMITS AS DEFINED.

Project: TOWN OF LEDYARD, CT



LEDYARD HIGH SCHOOL
MULTI-USE PATHWAY &
SIDEWALK EXTENSION
L171-0001

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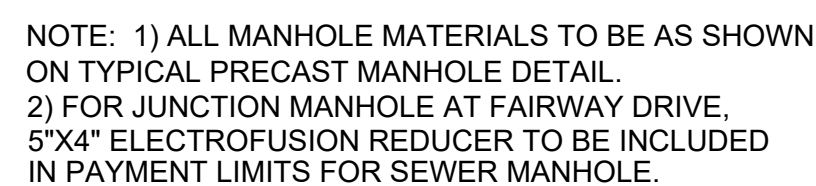
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Drawing Title:

**LOW PRESSURE
SEWER DETAILS**

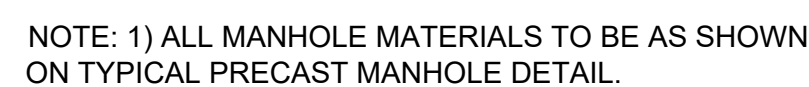
Sheet Number:

DET-04



SECTION A
N.T.S.

LOW PRESSURE SEWER JUNCTION MANHOLE
N.T.S.



SECTION B
N.T.S.

LOW PRESSURE SEWER "HIGH SCHOOL" MANHOLE
N.T.S.

PAYMENT LIMITS FOR "SEWER MANHOLE - ITEM 1403001A" MAY VARY. SEE RESPECTIVE SEWER MANHOLE DETAILS FOR LIMITS AS DEFINED.

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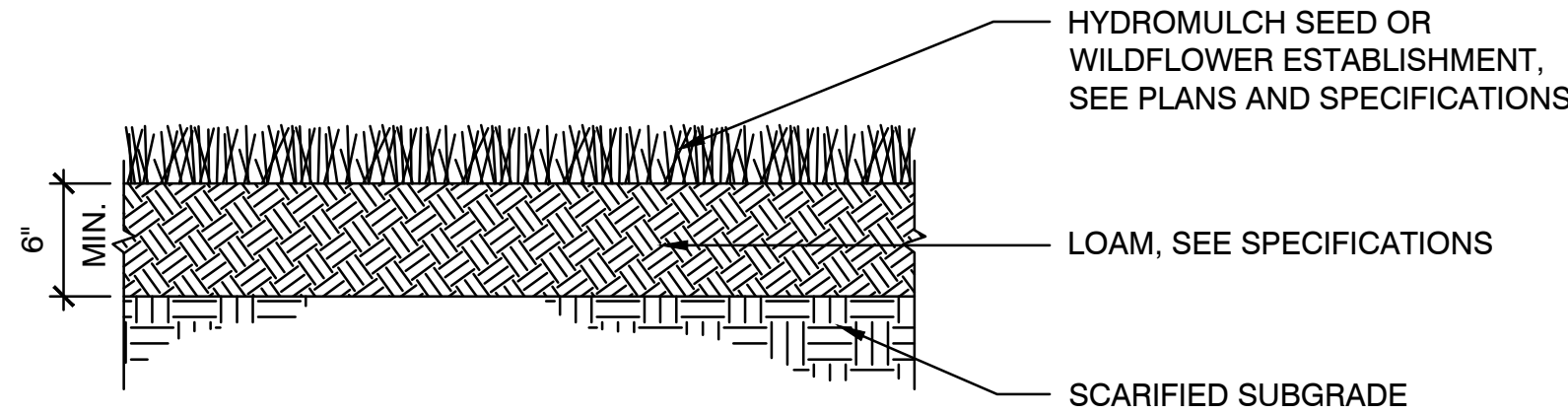
W&S Project No.: ENG20-1119
W&S File No.:

Drawing Title:

LOW PRESSURE SEWER DETAILS

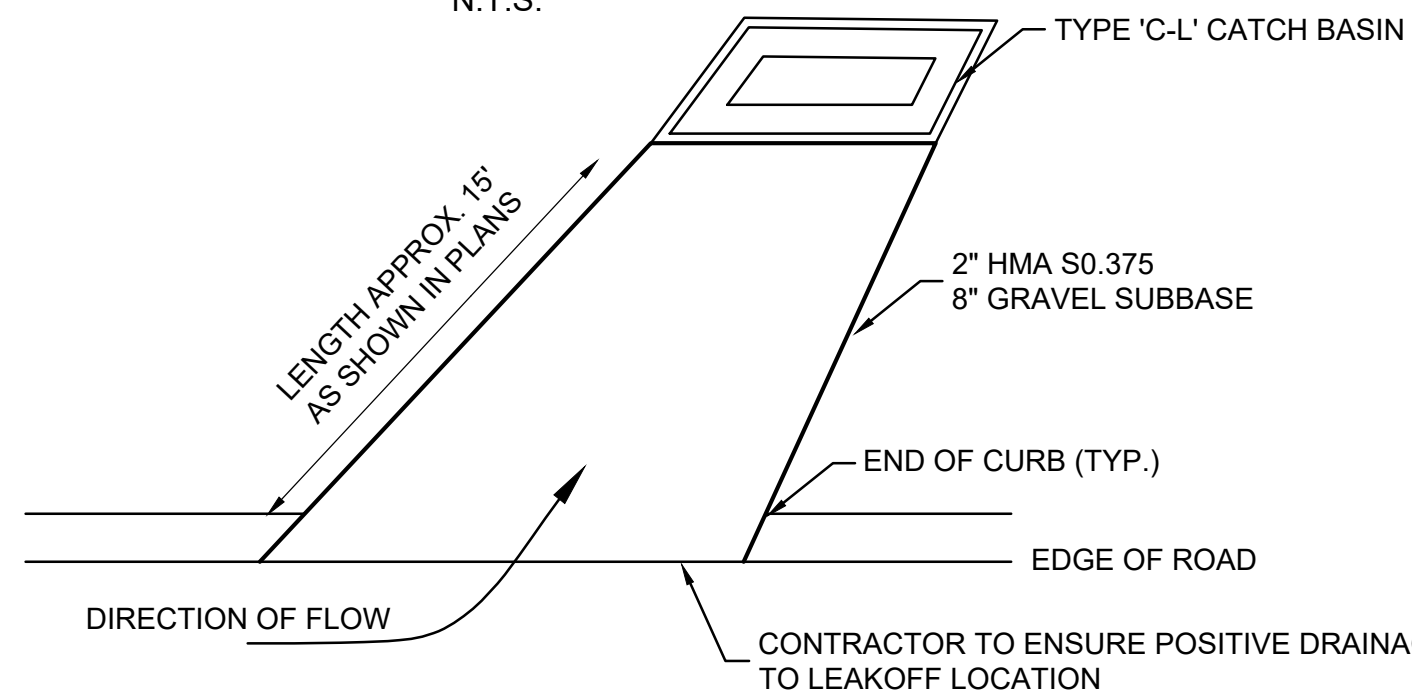
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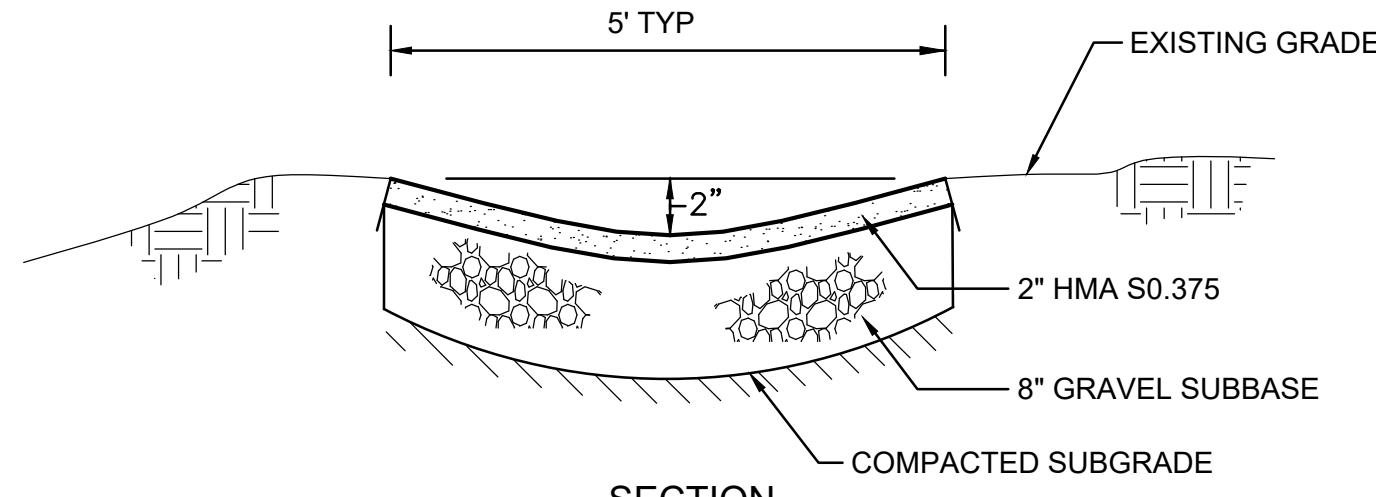
LOAM AND SEED

N.T.S.



PLAN

NOTES:
1. LEAK-OFF CONFIGURATION TO MATCH PROPOSED PLANS



SECTION

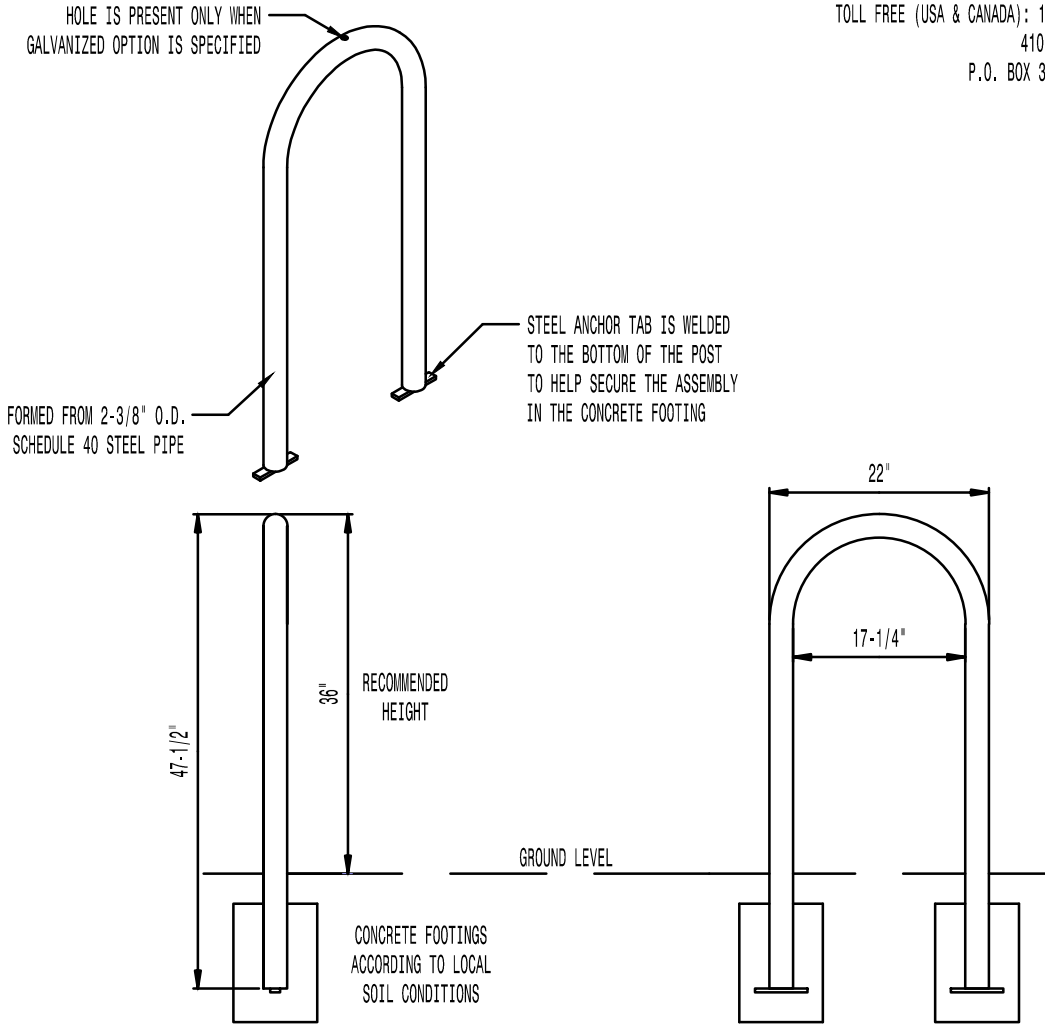
LEAK-OFF DETAIL

N.T.S.



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INFO@SECURESITEDESIGN.COM
WWW.SECURESITEDESIGN.COM

* ALL DIMENSIONS ARE IN INCHES *



AVAILABLE OPTIONS:
POWDER COATING
10 STANDARD COLORS, 2 OPTIONAL METALLIC COLORS, CUSTOM COLORS (INCLUDING THE RAL RANGE)
(ALL POWDER COAT FINISHES ARE DONE AT VICTOR STANLEY, INC. (VSI) TO MATCH THE VSI PRODUCT LINE)
OTHER FINISHES: GALVANIZED, STAINLESS STEEL (SPECIAL QUOTE NEEDED)

- NOTES:
- DRAWINGS NOT TO SCALE. DO NOT SCALE DRAWINGS.
 - ALL FABRICATED METAL COMPONENTS ARE STEEL SHOTBLASTED, ETCHED, PHOSPHATIZED, PRIMERED, AND ELECTROSTATICALLY POWDER-COATED WITH T-6, I.C. POLYESTER POWDER COATINGS. PRODUCTS ARE FULLY CLEANED AND PRIMERED, PRIMERED AND COATED WHILE HOT TO FULL CURE. COATINGS AND BUILT-UP COATING FILM COATED PARTS ARE THEN FULLY CURED TO COATING MANUFACTURER'S SPECIFICATIONS. THE THICKNESS OF THE RESULTING FINISH AVERAGES 8-10 MILS (200-250 MICRONS).
 - THIS SECURE SITE DESIGN, L.L.C. PRODUCT MUST BE PERMANENTLY AFFIXED IN THE GROUND. CONSULT YOUR LOCAL CODES FOR REGULATIONS.
 - ALL SPECIFICATIONS ARE SUBJECT TO CHANGE. CONTACT MANUFACTURER FOR DETAILS.
 - THIS PRODUCT IS SHIPPED FULLY ASSEMBLED.

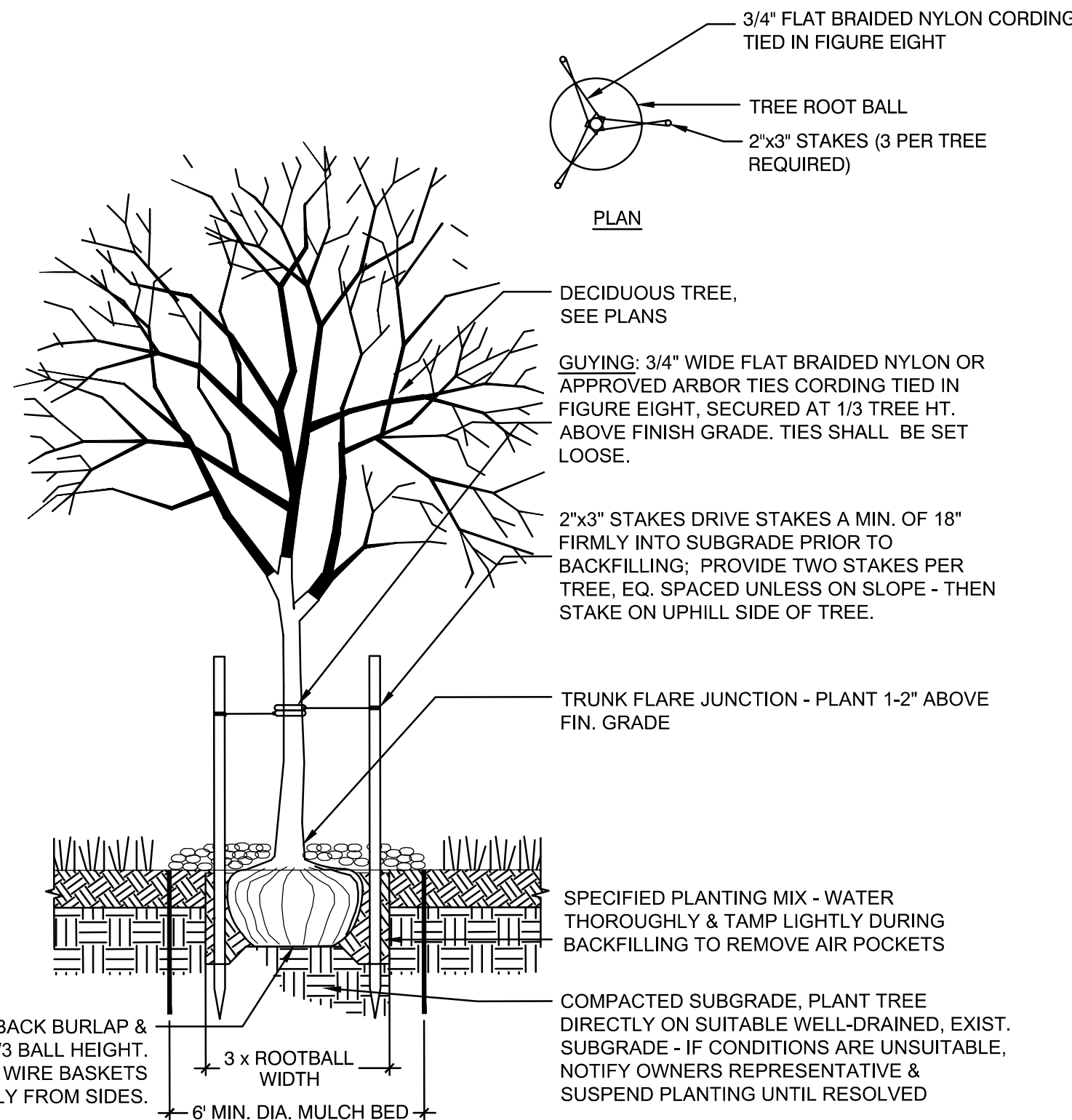


BIKE RACK
SHOWN: STANDARD IN-GROUND MOUNT

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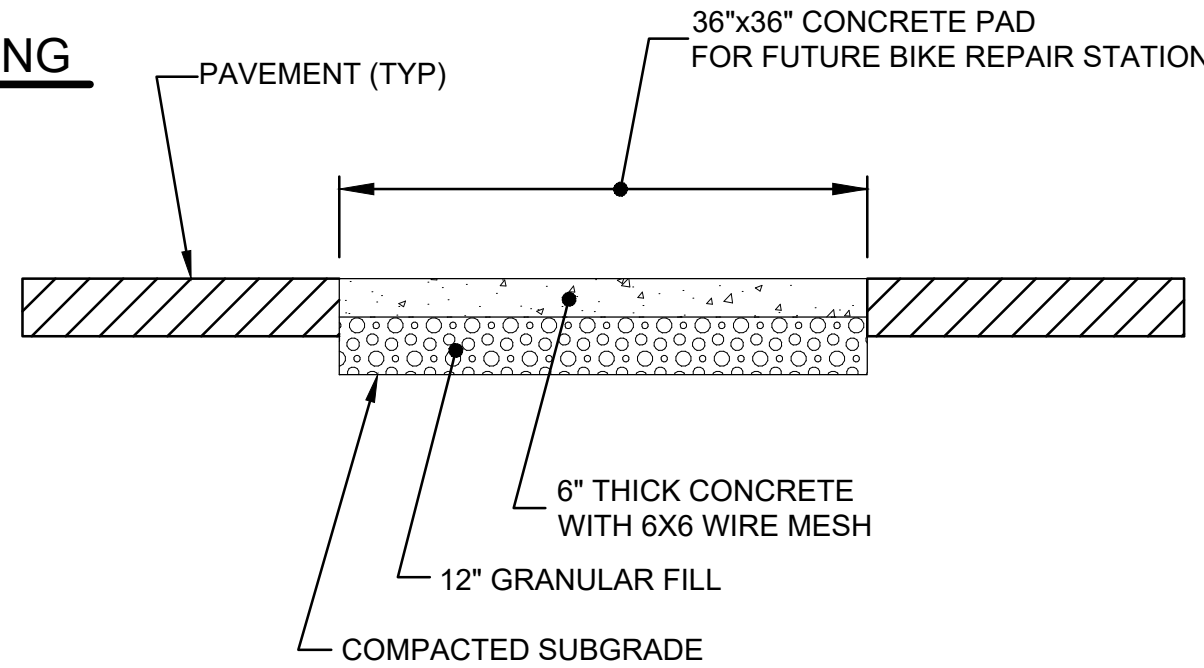
BICYCLE STAND

N.T.S.



TREE STAKING AND PLANTING

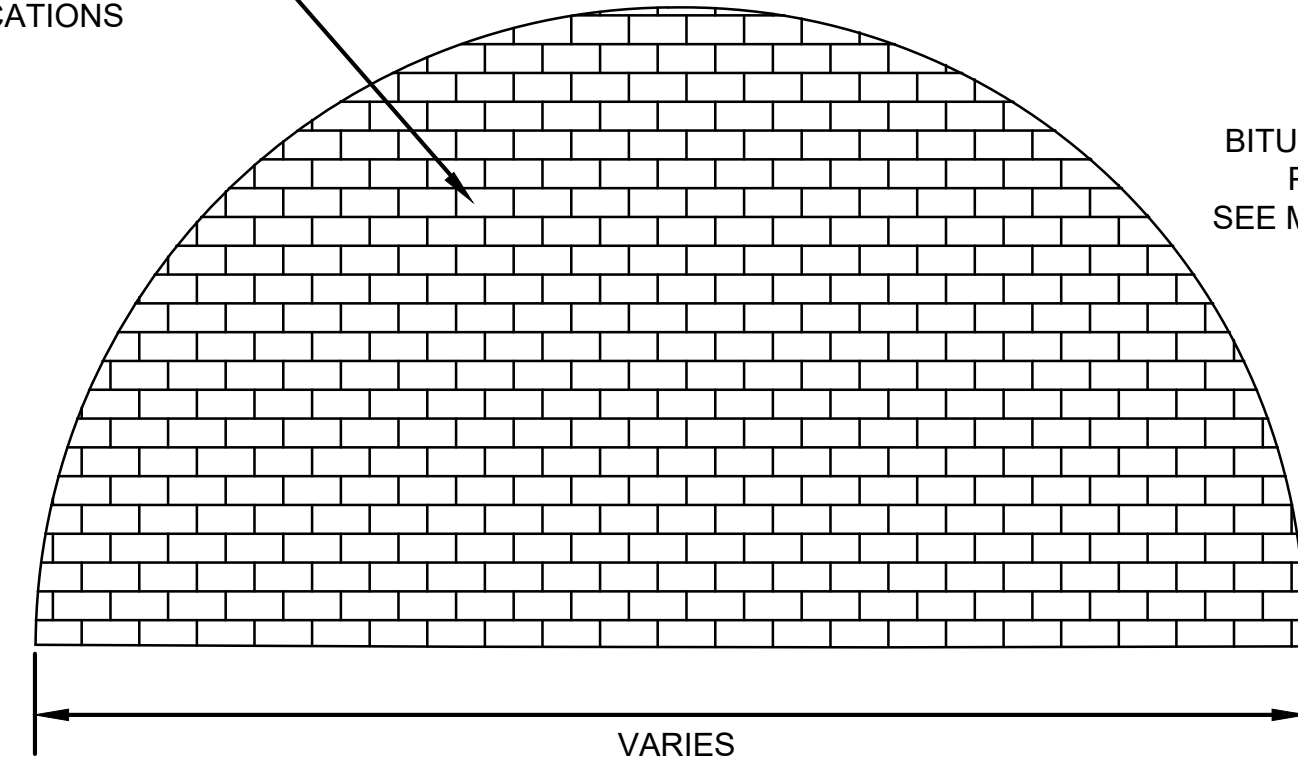
N.T.S.



CONCRETE PAD DETAIL

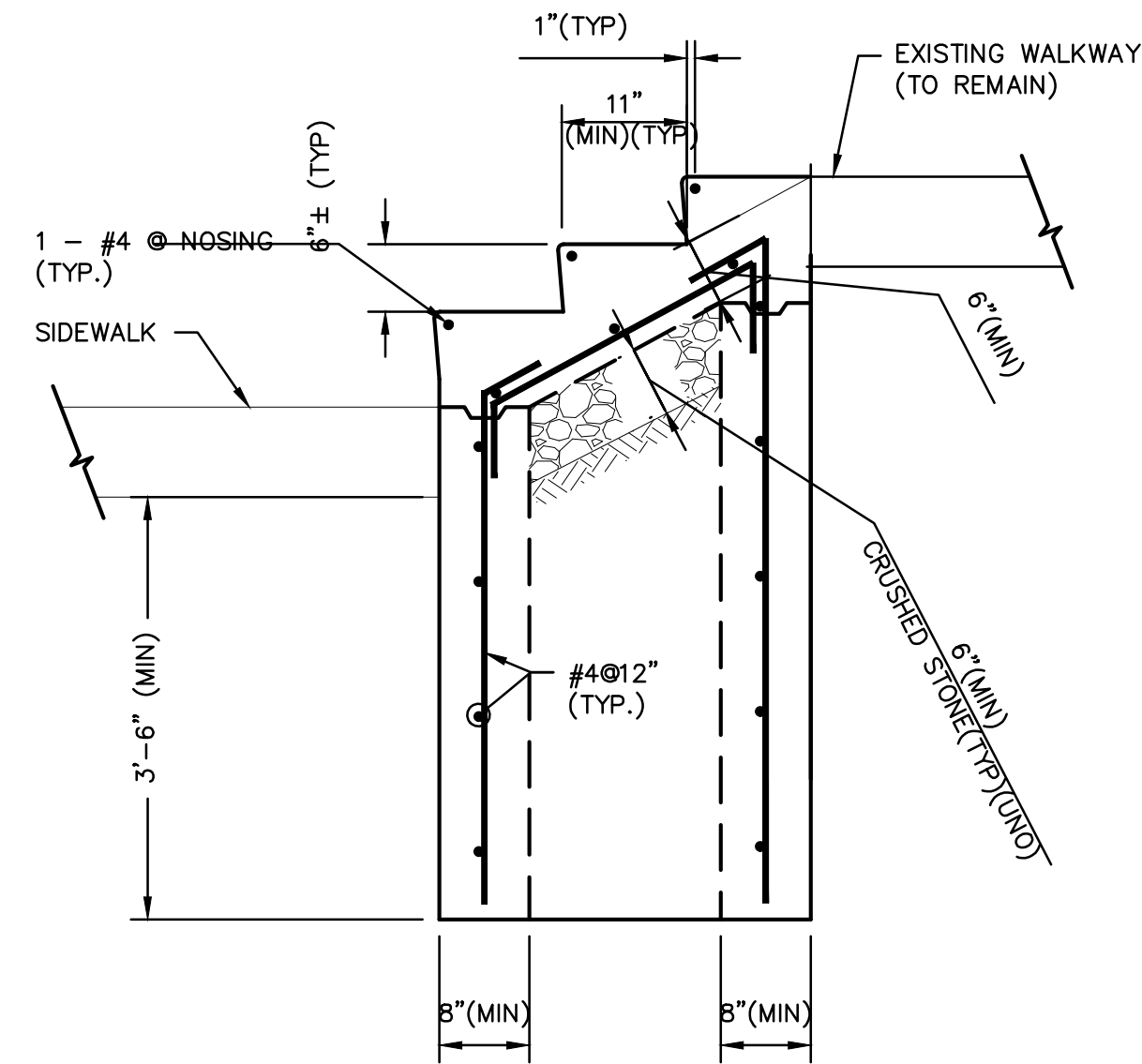
N.T.S.

IMPRESSED PREFORMED THERMOPLASTIC PAVEMENT (BRICK PATTERN) SEE SPECIFICATIONS



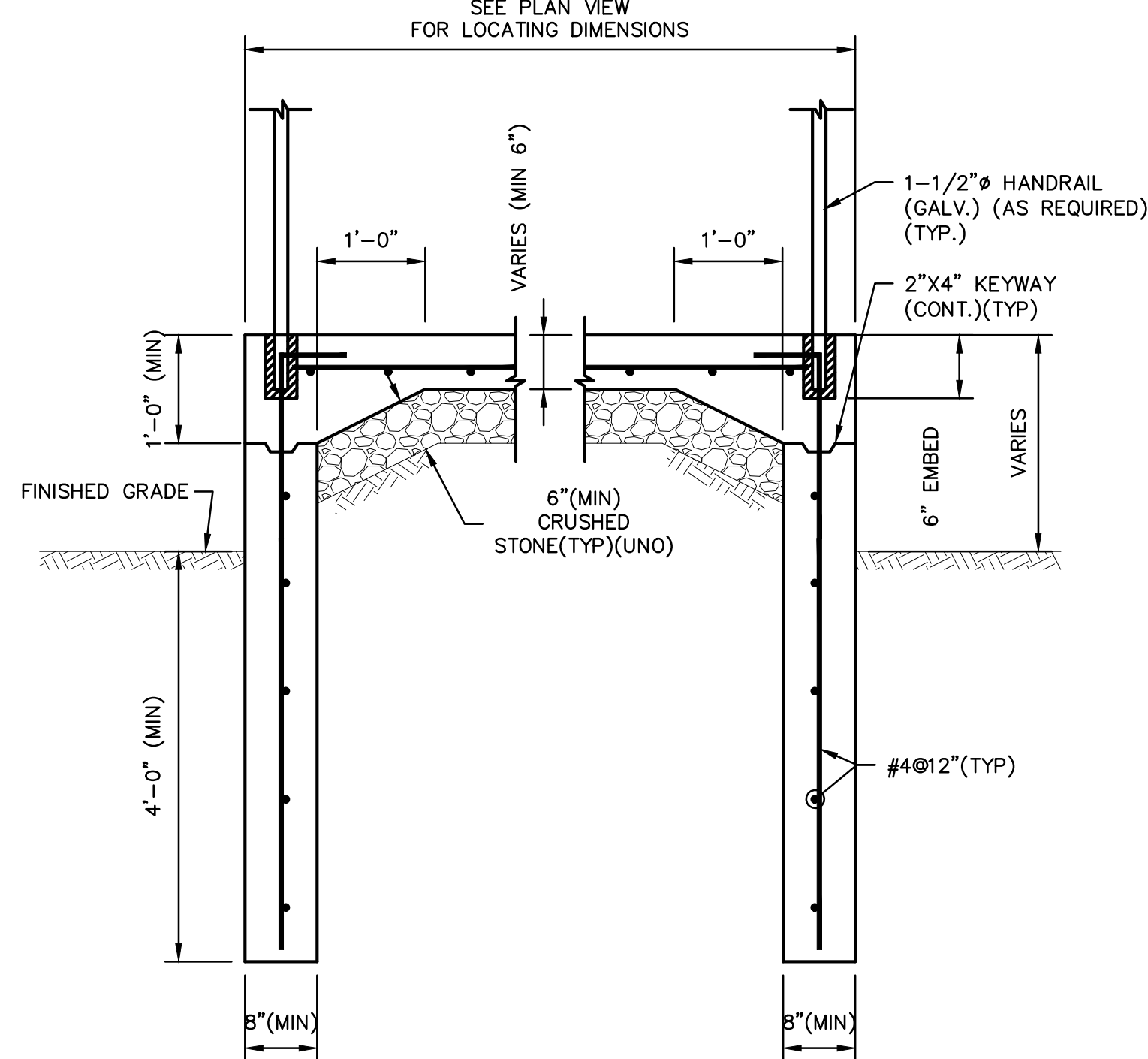
DECORATIVE CROSSWALK

N.T.S.



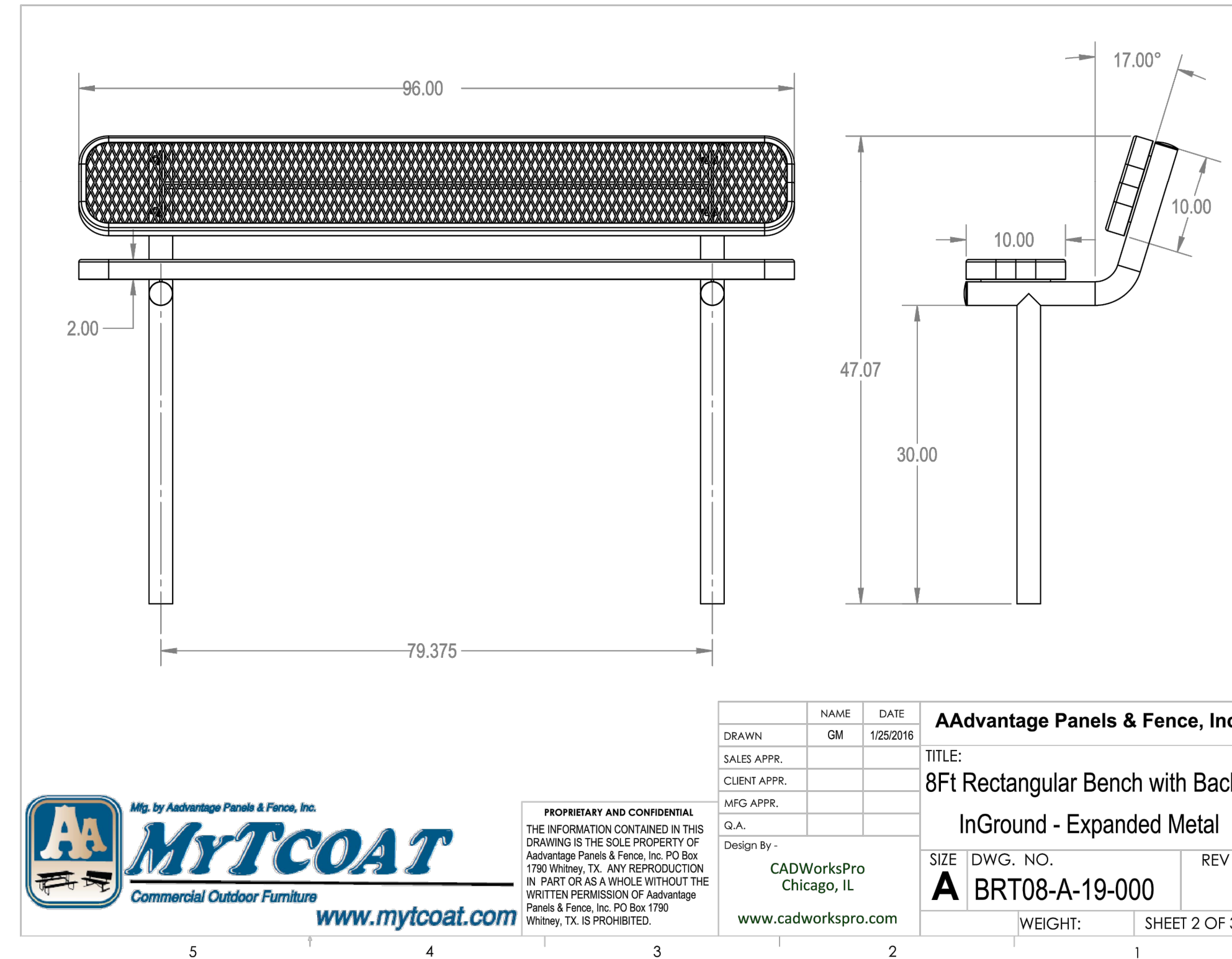
1 TYPICAL STAIR DETAIL

SCALE: 3/4" = 1'-0"



2 TYPICAL STAIR SECTION

SCALE: 3/4" = 1'-0"



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CLIENT APPR.		
MFG APPR.		
G.A.		
Design By -	CADWorksPro	Chicago, IL
www.cadworkspro.com		
AAdvantage Panels & Fence, Inc.		
TITLE:		
8Ft Rectangular Bench with Back		
InGround - Expanded Metal		
SIZE	DWG. NO.	REV
A	BRT08-A-19-000	
WEIGHT:	SHEET 2 OF 3	

BENCH

N.T.S.

Project:
TOWN OF LEDYARD, CT



LEDYARD HIGH SCHOOL
MULTI-USE PATHWAY &
SIDEWALK EXTENSION
L171-0001

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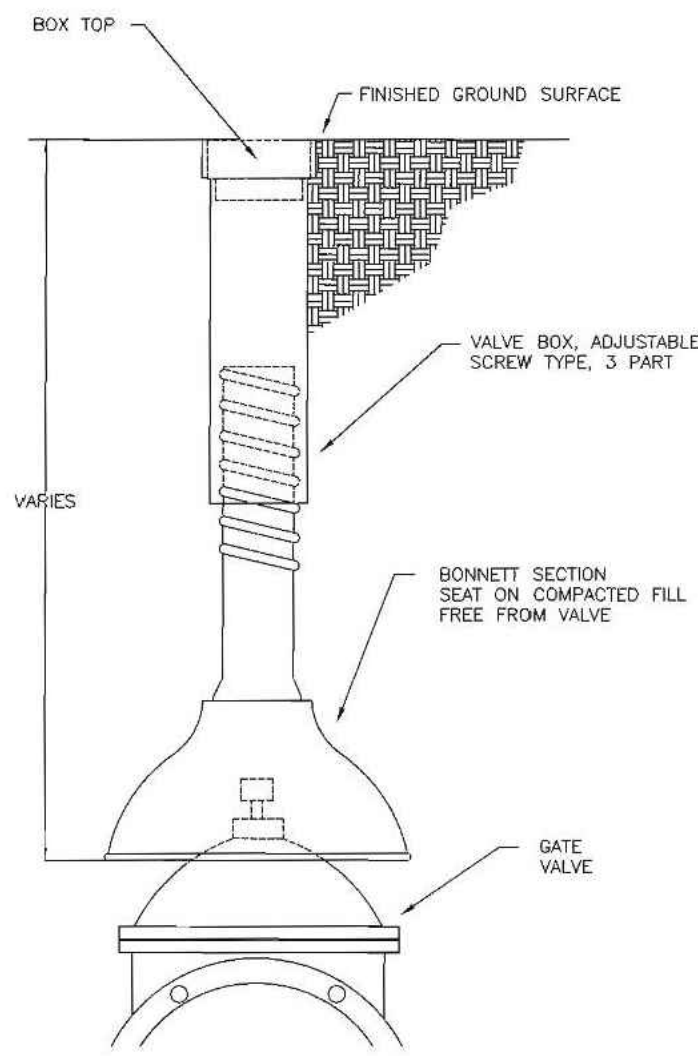
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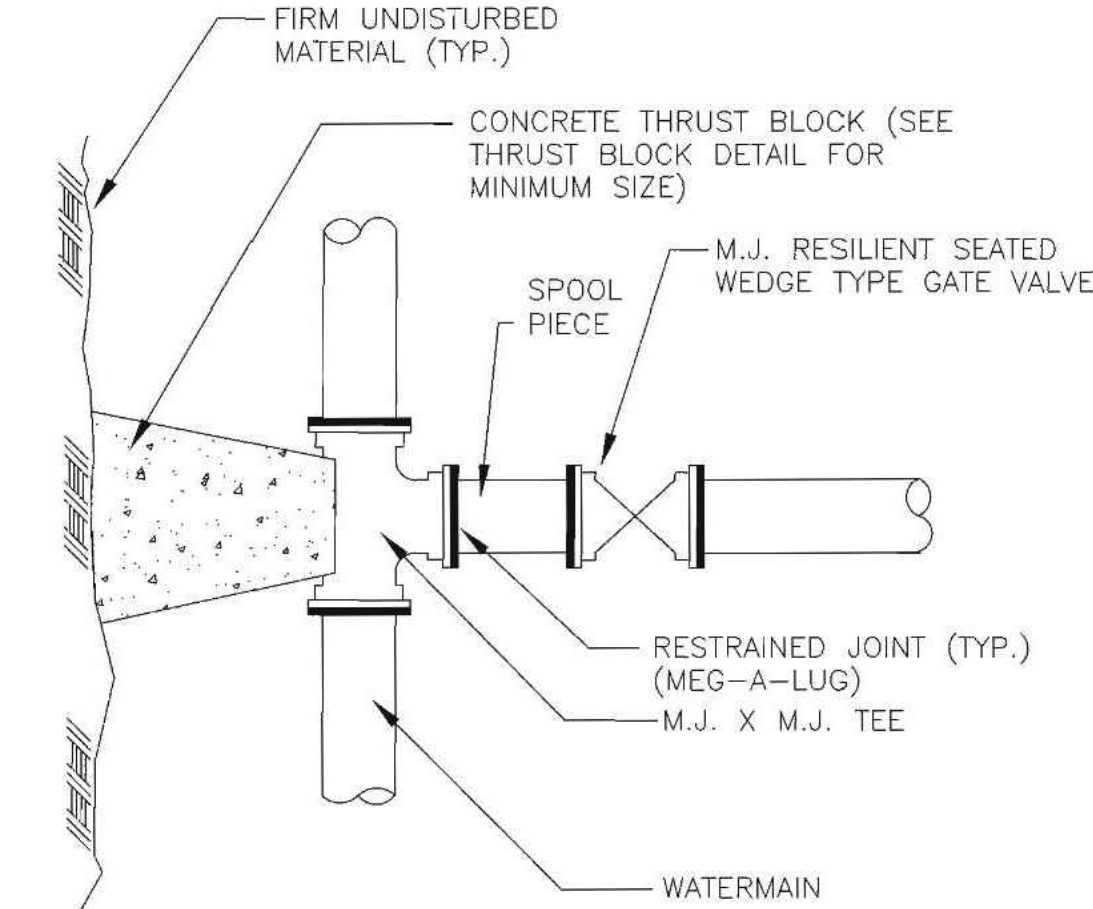
LANDSCAPE
DETAILS

Sheet Number:

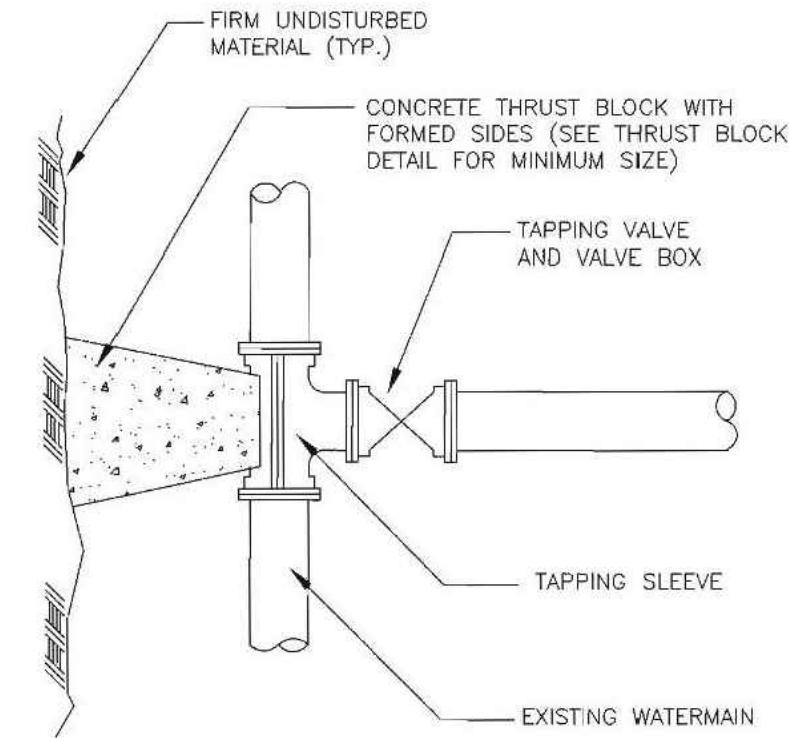
DET-06



GATE BOX DETAIL
NOT TO SCALE



GATE VALVE CONNECTION DETAIL
NOT TO SCALE



NOTE: CONTRACTOR TO VERIFY OUTSIDE DIAMETER OF EXISTING MAIN.

TAPPING SLEEVE & VALVE DETAIL
NOT TO SCALE

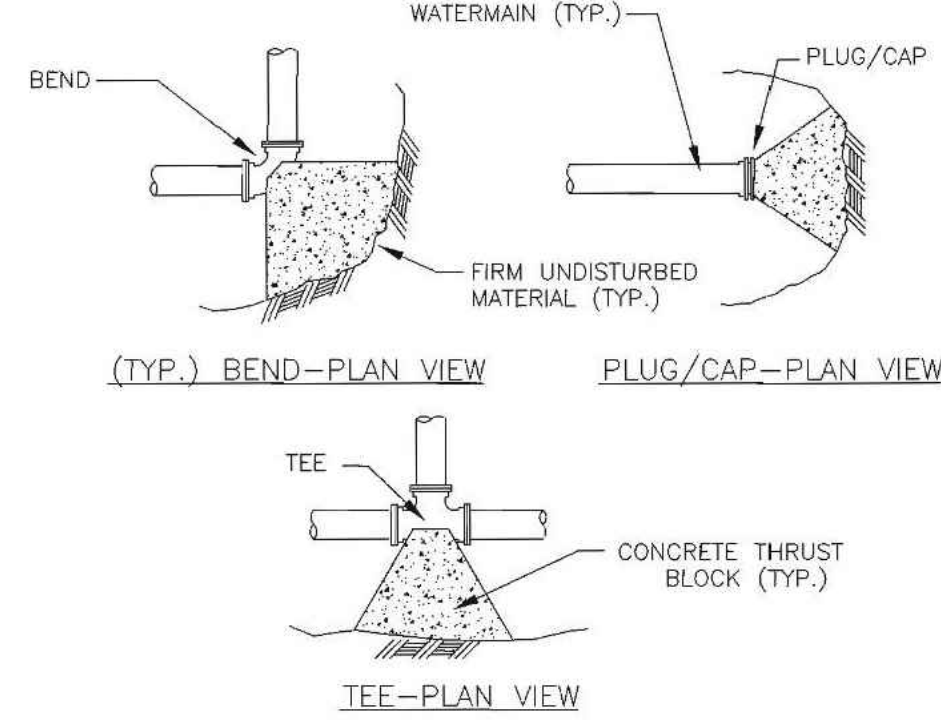
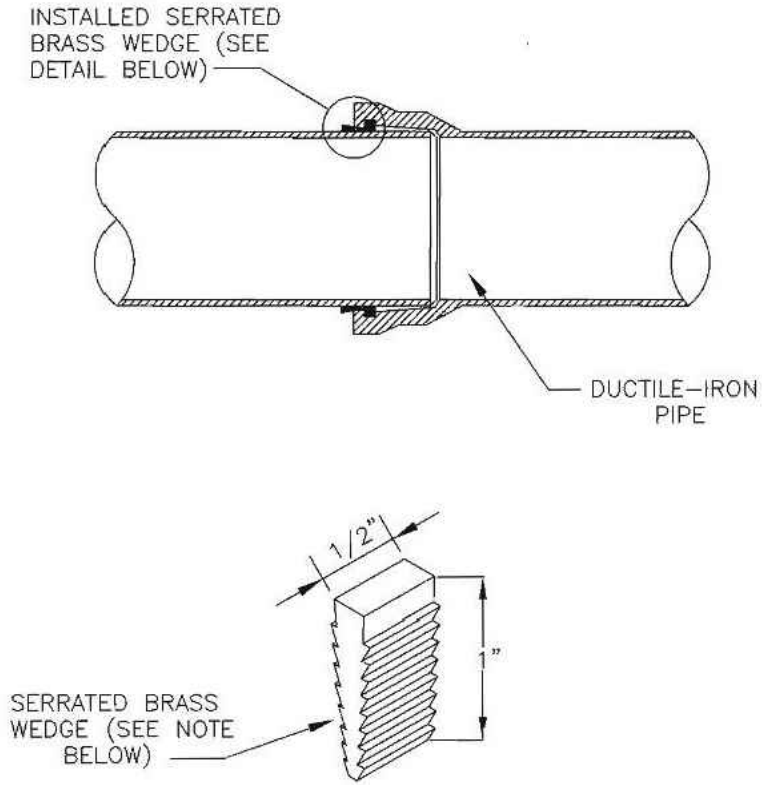


TABLE OF BEARING AREAS (S.F.)			
SIZE OF MAIN (IN.)	BEND (90)	BENDS (45 & UNDER)	TEES, CAPS OR PLUGS
8 & UNDER	6	3	4
10 & 12	12	6	9

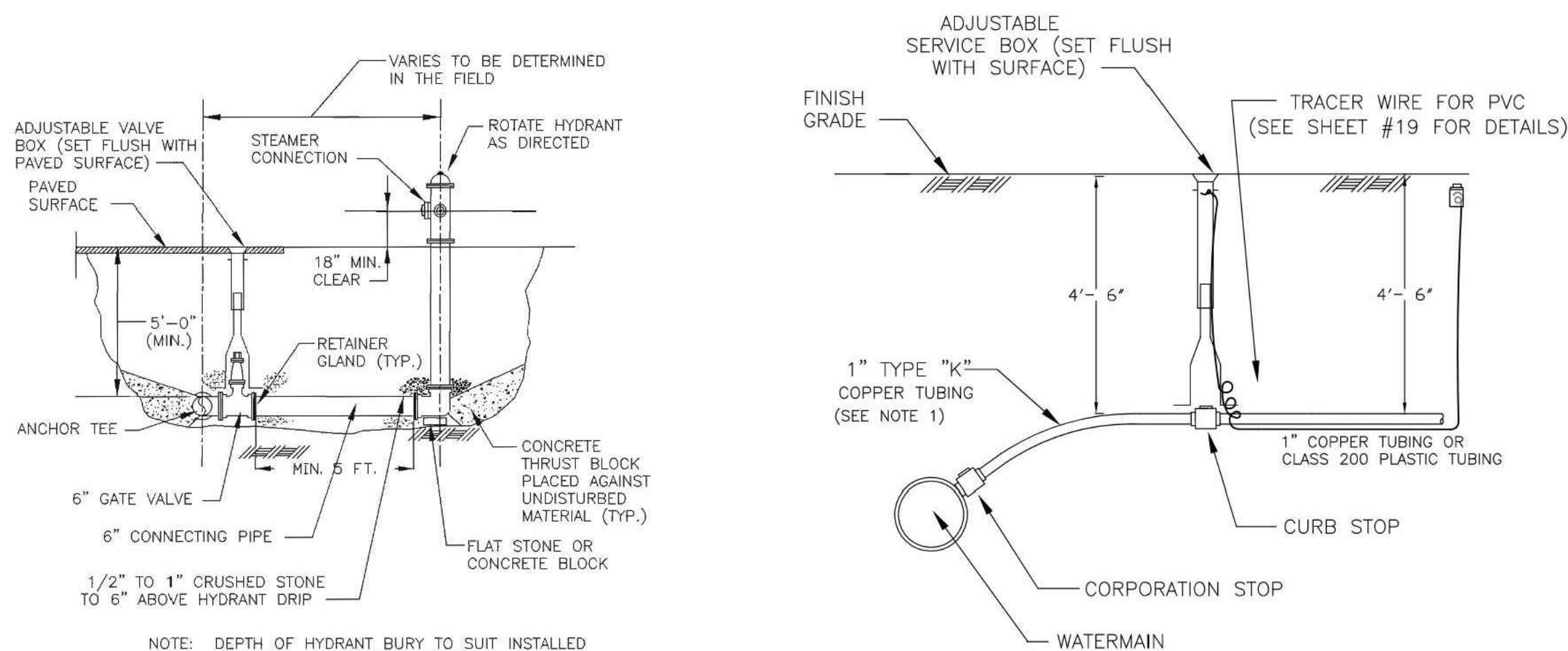
- NOTES: 1. CONCRETE FOR THRUST BLOCKS SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AT 28 DAYS.
2. THRUST BLOCK BEARING AREAS TOO BE IN ACCORDANCE WITH TABLE, UNLESS DETERMINED OTHERWISE BY THE ENGINEER BECAUSE OF SOIL CONDITIONS.
3. THRUST BLOCK SIDES SHALL BE FORMED WITH PLYWOOD.

THRUST BLOCK DETAILS
NOT TO SCALE



NOTE: BRASS WEDGES ARE TO BE INSTALLED ON ALL DUCTILE-IRON, PUSH-ON PIPING, INCLUDING HYDRANT BRANCHES, ETC., TO PROVIDE FOR ELECTRICAL THAWING. FOR 2" THROUGH 12" PIPE, TWO WEDGES SHALL BE USED PER JOINT; FOR LARGER DIAMETER PIPE FOUR WEDGES SHALL BE USED PER JOINT. EACH WEDGE IS DRIVEN INTO THE OPENING BETWEEN THE PLAIN END AND THE BELL UNTIL SNUG. WHEN FOUR WEDGES ARE USED, THEY ARE INSTALLED SIDE BY SIDE, IN PAIRS.

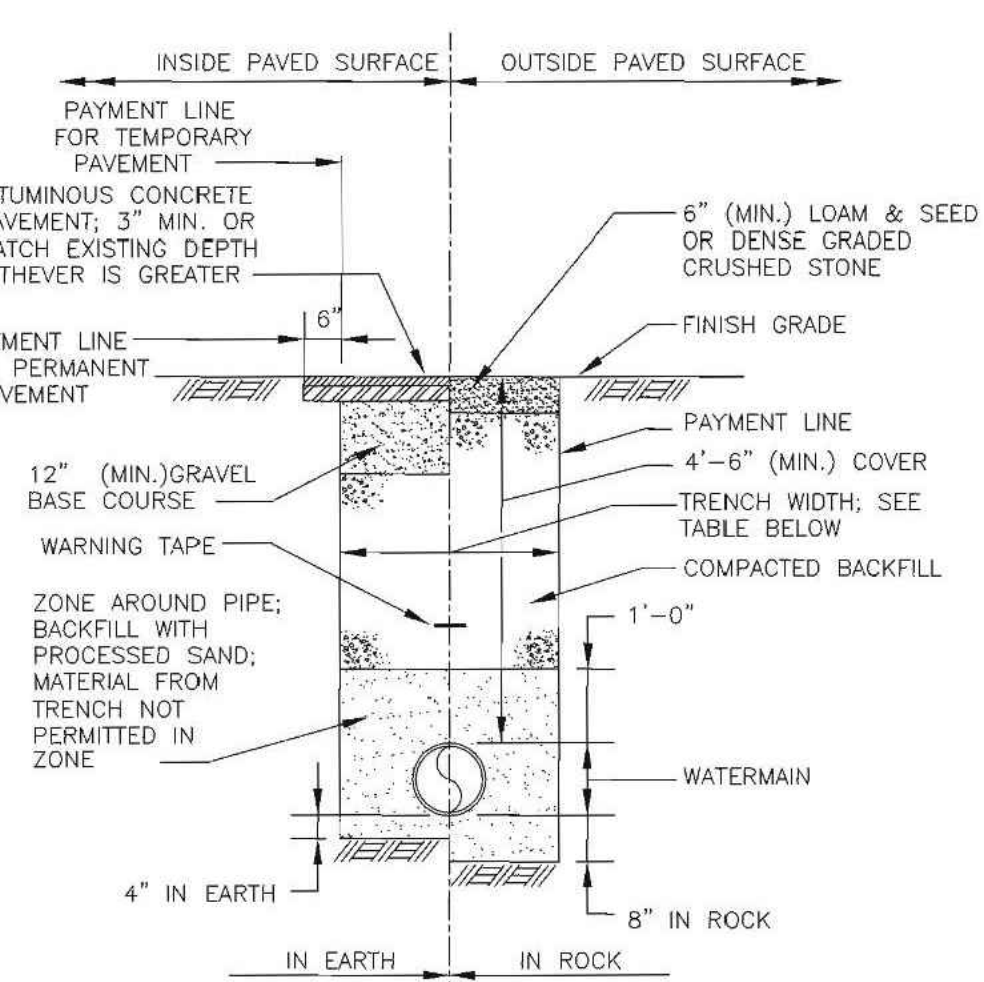
SERRATED BRASS WEDGE DETAIL
NOT TO SCALE



NOTE: DEPTH OF HYDRANT BURY TO SUIT INSTALLED DEPTH OF COVER OVER WATERMAIN.

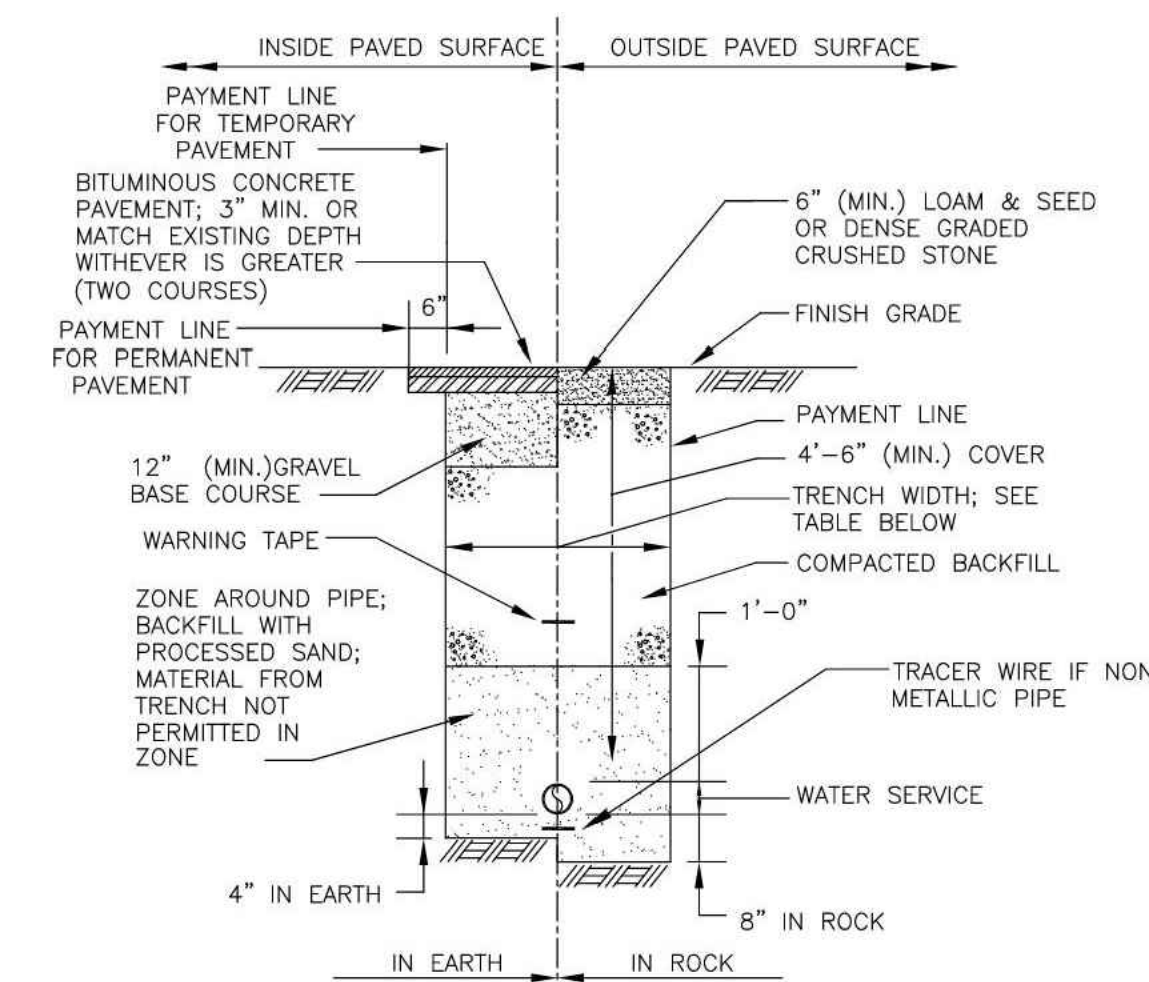
HYDRANT ASSEMBLY DETAIL
NOT TO SCALE

1. MINIMUM SIZE OF ANY WATER SERVICE INSTALLED FROM MAIN TO PROPERTY LINE SHALL BE 1".
 2. TYPE "K" COPPER TUBING MUST BE INSTALLED FROM MAIN TO PROPERTY LINE.
 3. TYPE "K" COPPER TUBING OR CLASS 200 PLASTIC TUBING MUST BE INSTALLED FROM PROPERTY LINE TO BUILDING WITH TRACER WIRE (SEE SHEET 19 FOR DETAILS).
 4. METER PIT MAY REPLACE CURB STOP, BOX, AND HOUSE METER IN BASEMENT.
 5. ALL JOINTS TO METER SHALL BE FLARED OR COMPRESSION TYPE.
 6. BUILDINGS WITHOUT BASEMENTS MUST HAVE EXTERIOR METER PITS.
 7. SERVICE LINES MUST BE CALKED INSIDE FOUNDATION WALL SLEEVE.
 8. BACKFILL: HAND-FILL WITH SAND OR EQUAL TO 12" ABOVE PIPE.
 9. TAPPED COLLARS MAY BE USED FOR SERVICE CONNECTIONS.
 10. ELECTRICAL GROUNDING WILL NOT BE PERMITTED ON ANY PORTION OF AN EXISTING COPPER WATER SERVICE PARTIALLY REPLACED BY PLASTIC PIPE.
- * Pipe rating shall be class 200 water service pipe manufactured to meet or exceed requirements of water service tubing Class 200 (ASTM Standard D-2737 CTS-00). The pipe shall bear the emblem of National Sanitation Foundation for use in potable water systems. Class 200 water service pipe must be approved by I.A.P.M.D. for use as underground water service pipe and shall bear the seal of the Uniform Plumbing Code. The pipe must conform to the National Bureau of Standards Product Standards Requirements.
- *(CTS-00 Indicates Copper Tubing Size, Outside Diameter)



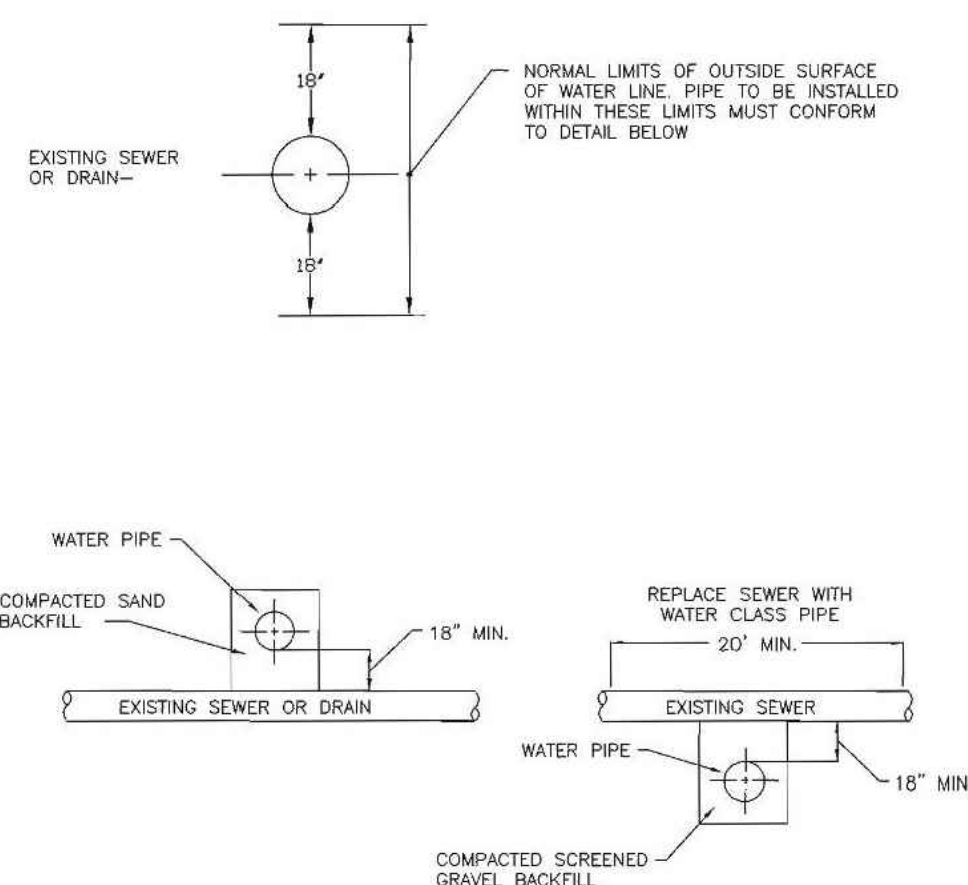
NOTE: PAYMENT FOR PAVEMENT INSTALLED BEYOND PAYMENT LINE WILL BE MADE ONLY WHEN SUCH INSTALLATION IS APPROVED BY THE ENGINEER.

WATERMAIN TRENCH DETAIL
NOT TO SCALE



NOTE: PAYMENT FOR PAVEMENT INSTALLED BEYOND PAYMENT LINE WILL BE MADE ONLY WHEN SUCH INSTALLATION IS APPROVED BY THE ENGINEER.

WATER SERVICE TRENCH DETAIL
NOT TO SCALE



TYPICAL SEWER AND DRAIN CROSSING
NOT TO SCALE

Project: TOWN OF LEDYARD, CT



LEDYARD HIGH SCHOOL
MULTI-USE PATHWAY &
SIDEWALK EXTENSION
L171-0001

741 COLONEL LEDYARD HIGHWAY
LEDYARD, CT 06339

Weston & Sampson

Weston & Sampson Engineers, Inc.
712 Brook Street, Suite 103
Rocky Hill, CT 06067
978.532.1900 800 SAMPSON
www.westonandsampson.com

Consultants:

Revisions:

No.	Date	Description

Seal:

COA:
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Issued For:

Scale: AS NOTED

Date: MAY 2023

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Reviewed By: RC

Approved By: MJJ

W&S Project No.: ENG20-1119

W&S File No.:

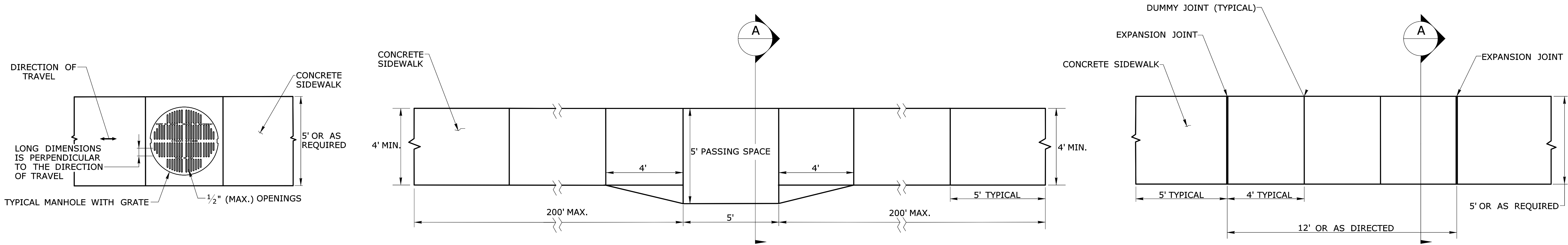
Drawing Title:

GROTON UTILITY
DETAILS

Sheet Number:

DET-07

- GENERAL NOTES:**
1. SEE CONCRETE SIDEWALK RAMP GUIDE SHEETS FOR PEDESTRIAN RAMP TYPES.
 2. ALL CURBING SHALL BE INSTALLED AS EITHER PRECAST OR CAST IN PLACE AS DIRECTED.



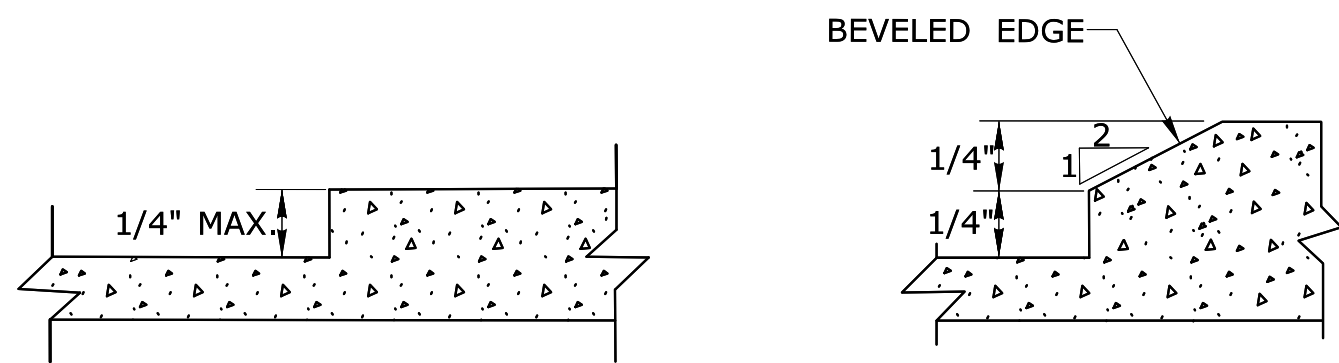
**PEDESTRIAN ACCESS ROUTE
OVER A MANHOLE WITH GRATE**

1. HORIZONTAL OPENINGS IN GRATES AND JOINTS MUST NOT BE MORE THAN $\frac{1}{2}$ INCH
2. ELONGATED OPENINGS IN GRATES MUST BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DIRECTION OF TRAVEL

**5' PASSING SPACE FOR 4' WIDE SIDEWALK
PLAN**

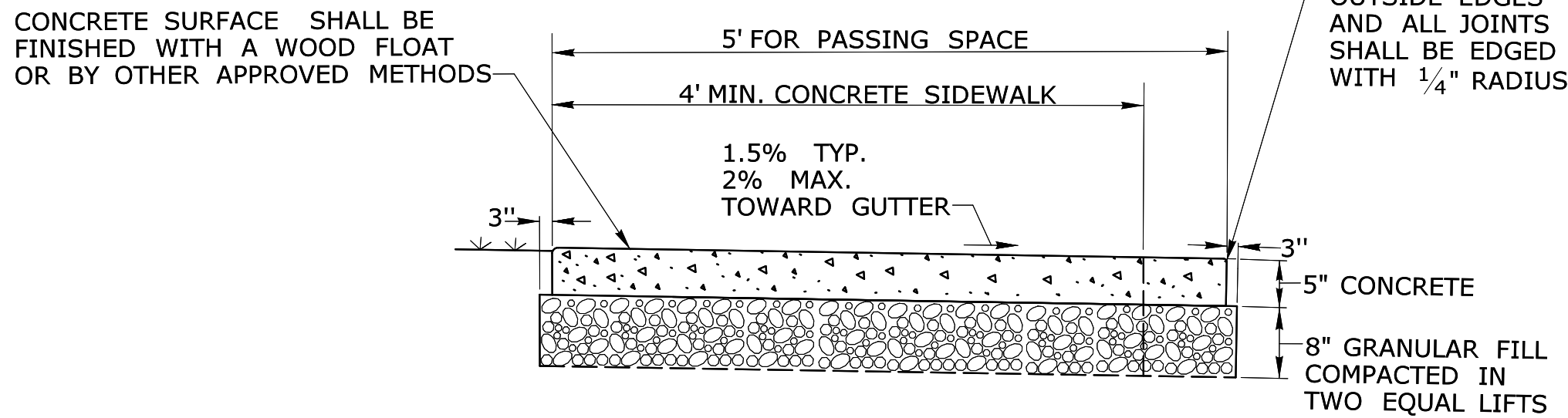
PASSING SPACES SHALL BE PROVIDED AT INTERVALS OF 200' MAXIMUM FOR SIDEWALKS LESS THAN 5' IN WIDTH

**5' WIDE SIDEWALK
PLAN**



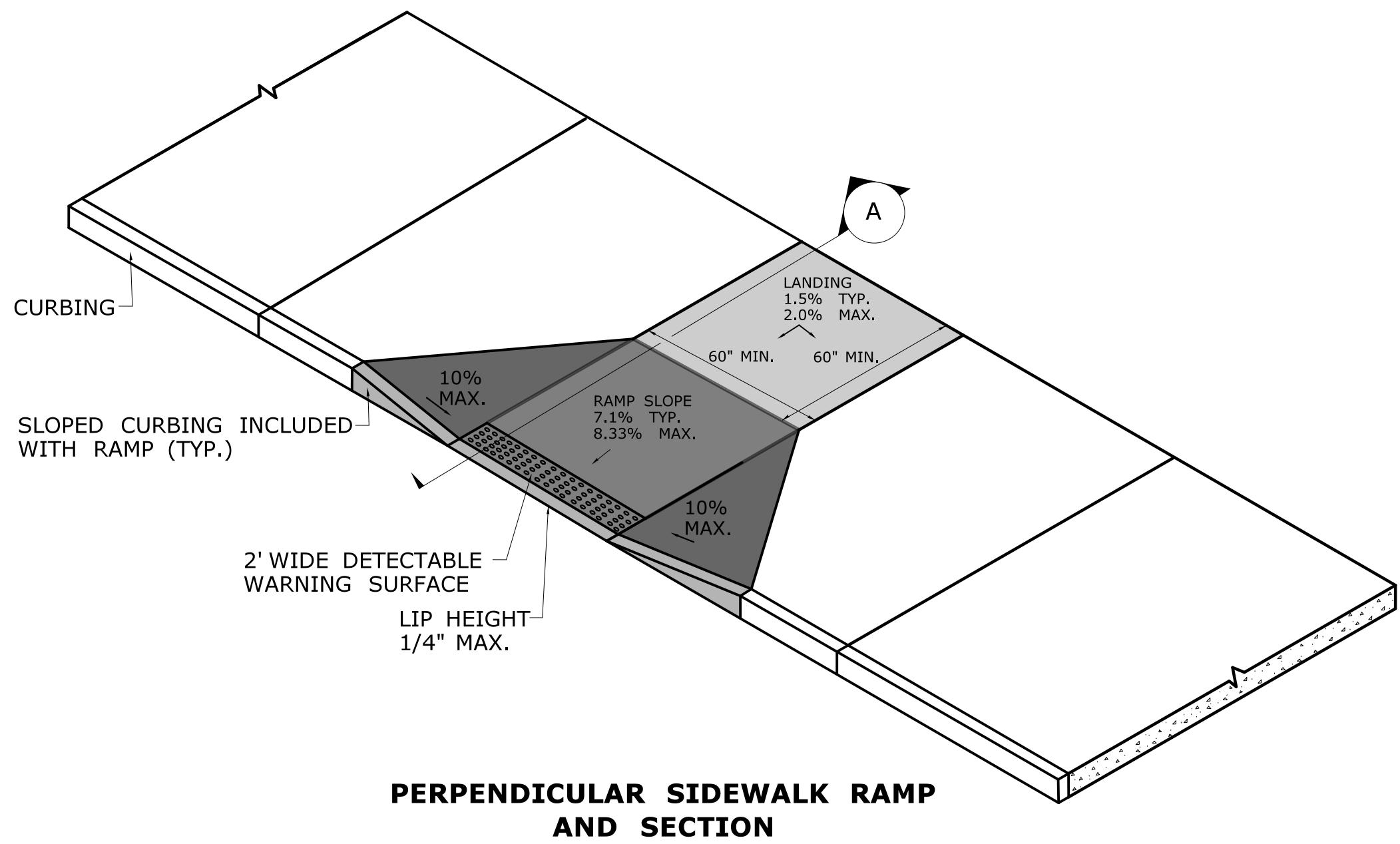
VERTICAL SURFACE DISCONTINUITIES

VERTICAL SURFACE DISCONTINUITIES MUST BE BEVELED TO A HEIGHT NOT GREATER THAN $\frac{1}{4}$ INCH. THE BEVEL MUST BE THE ENTIRE WIDTH OF THE DISCONTINUITY.

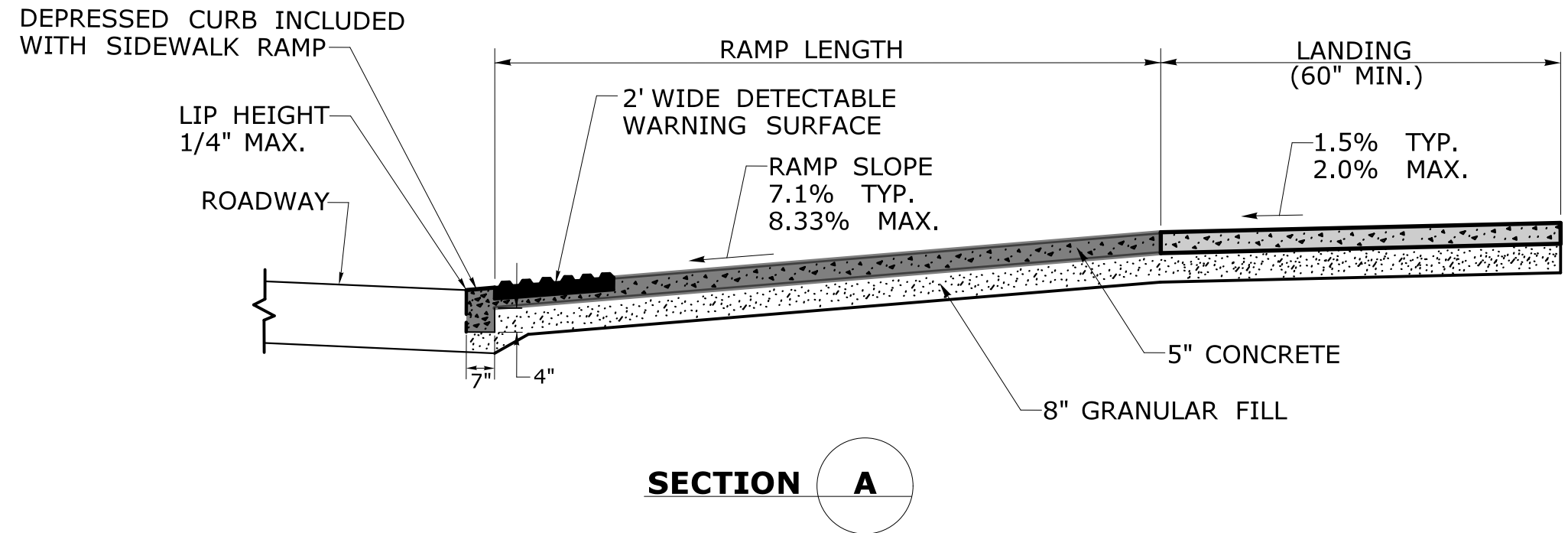


5' PASSING SPACE FOR 4' WIDE SIDEWALK

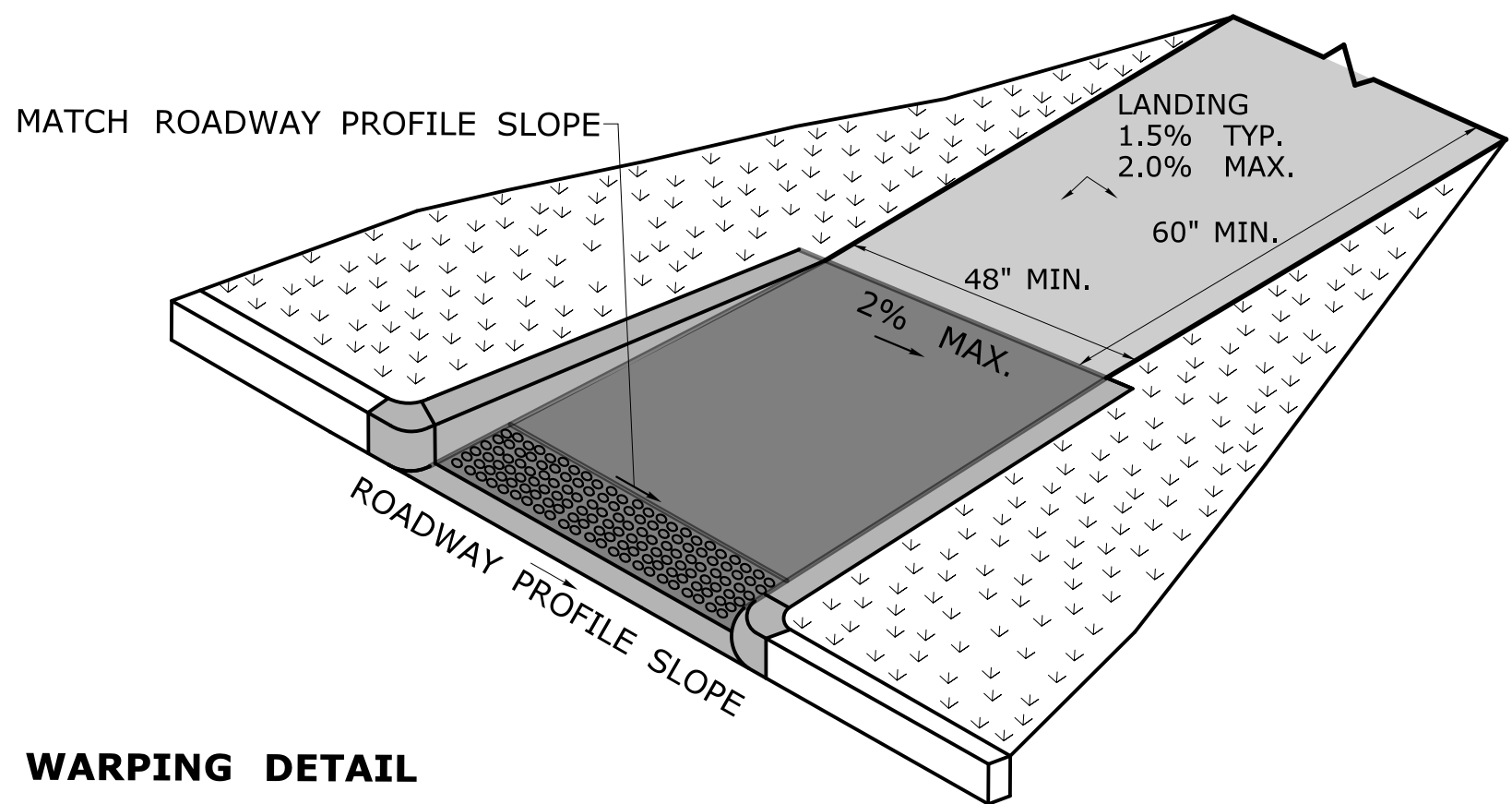
SECTION A



PERPENDICULAR SIDEWALK RAMP
AND SECTION

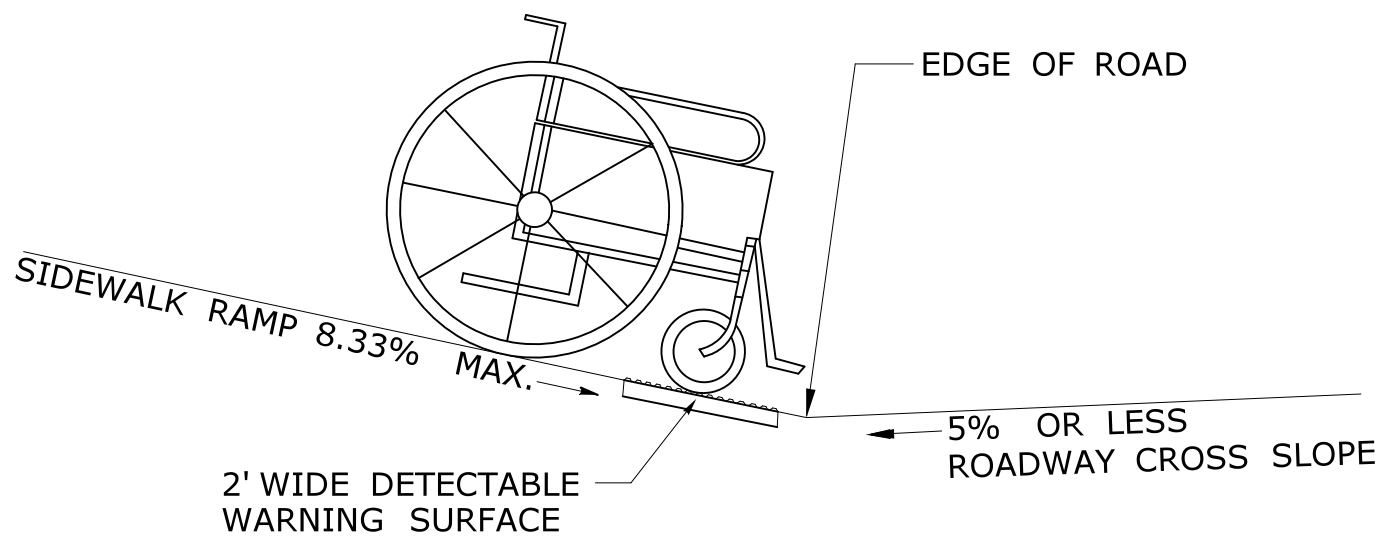


SECTION A

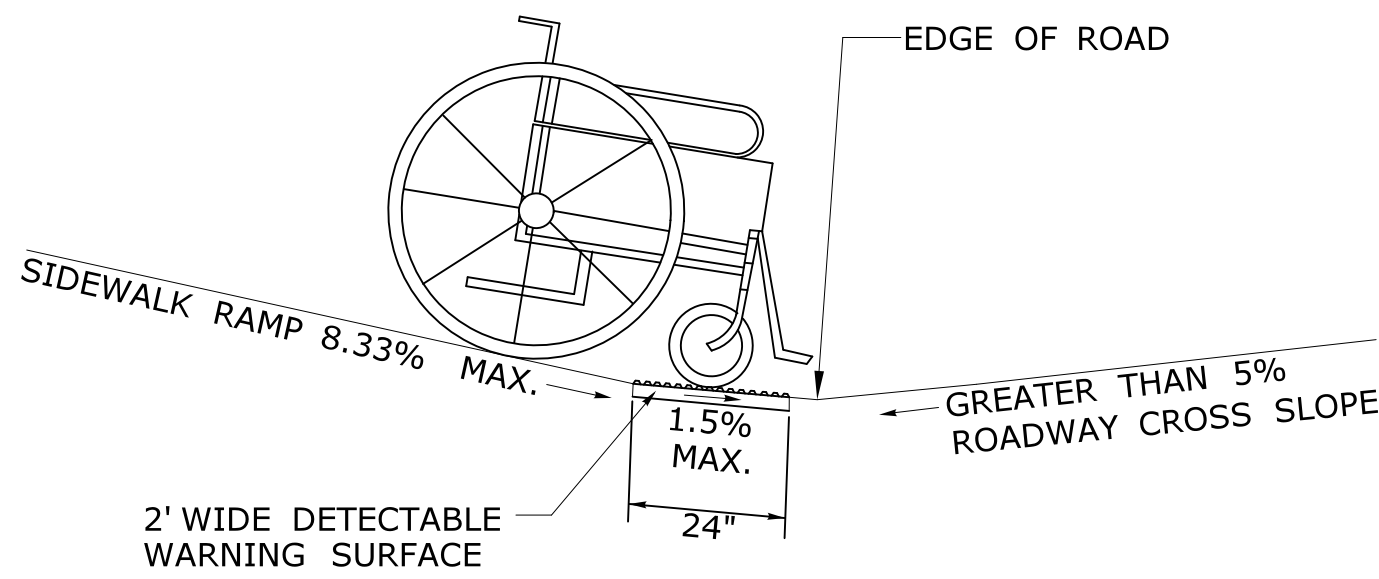


RAMP WARPING DETAIL

1. TRANSITION SIDEWALK RAMP TO MATCH ROADWAY PROFILE AS GRADUALLY AS POSSIBLE. DO NOT EXCEED 3 % PER FOOT CROSS SLOPE RATE OF CHANGE WHEN TRANSITIONING TO ROADWAY PROFILE.
2. COMPLETE TRANSITION TO ROADWAY PROFILE BEHIND DETECTABLE WARNING SURFACE.



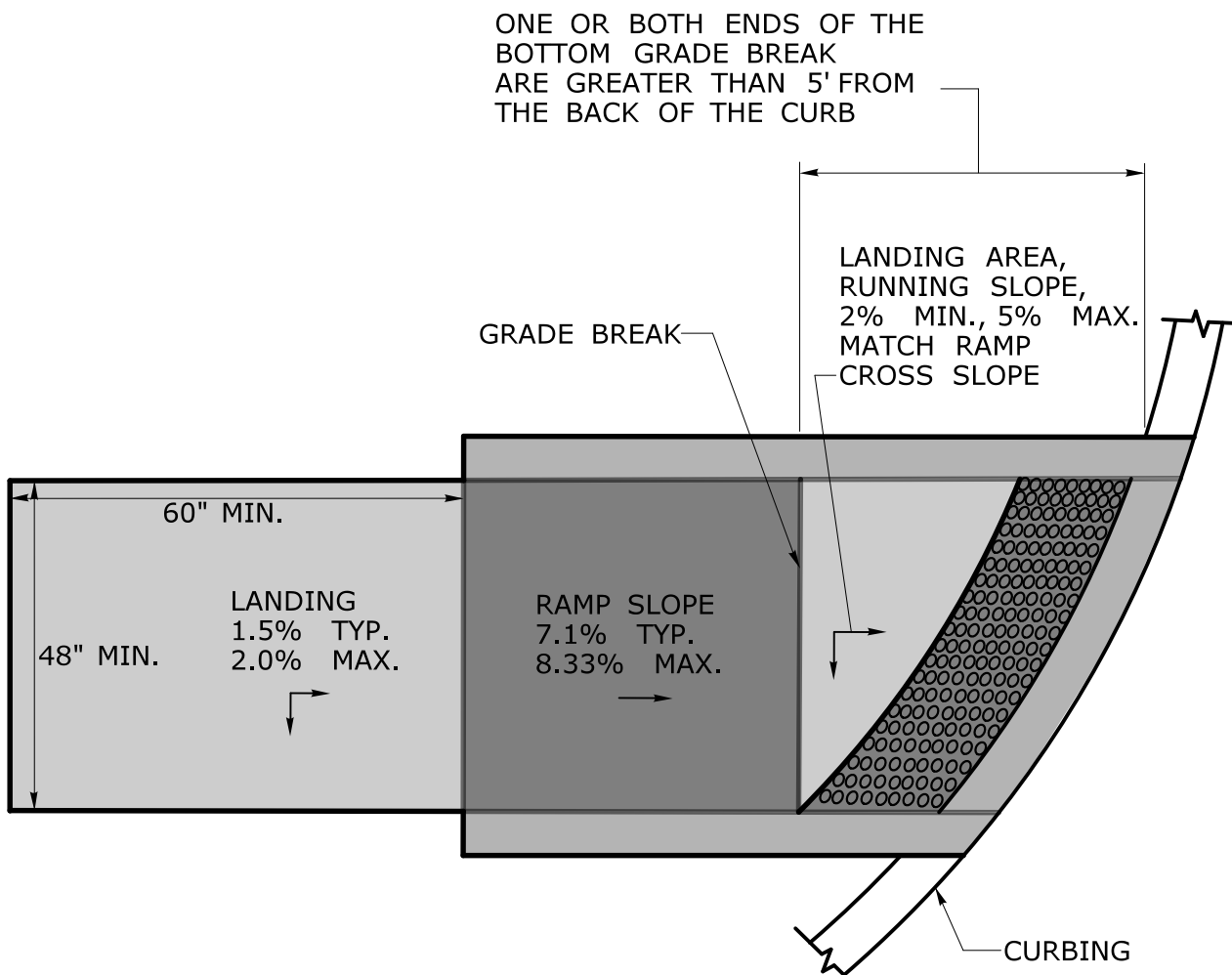
SIDEWALK RAMP GRADE AT
ROADWAY CROSS SLOPE OF 5% OR LESS
GUTTER COUNTER SLOPE



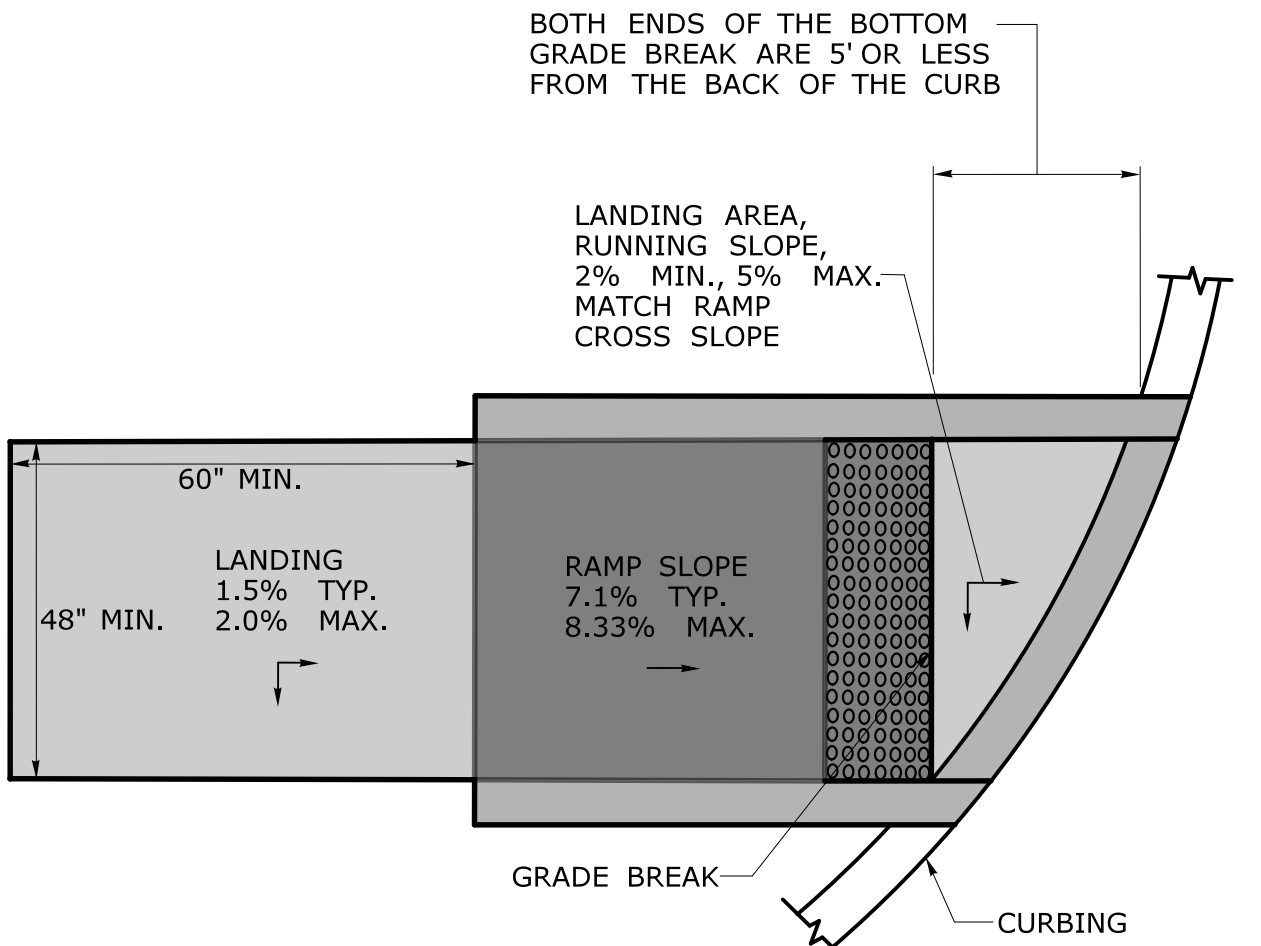
SIDEWALK RAMP GRADE AT
ROADWAY CROSS SLOPE OF GREATER THAN 5%
GUTTER COUNTER SLOPE

GENERAL NOTES:

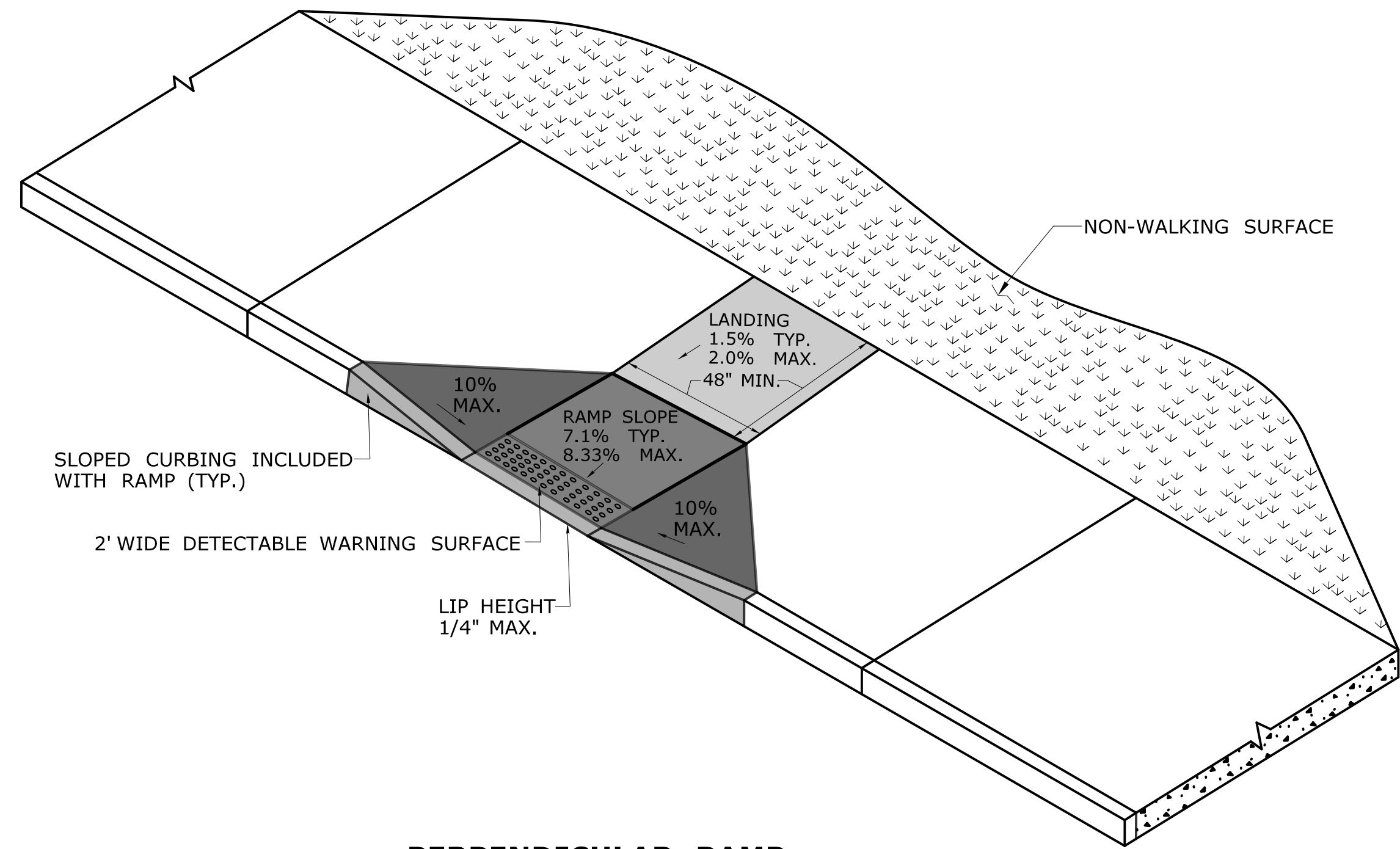
1. SIDEWALK RAMPs SHALL HAVE A COARSE BROOM FINISH TRANSVERSE TO THE SLOPE OF THE RAMP.
2. VERTICAL SURFACE DISCONTINUITIES AT JOINTS SHALL NOT EXCEED 1/4 INCH.
3. REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION OR CONTRACTION JOINT.
4. THE RUNNING SLOPE OF THE CURB RAMP SHALL BE 8.33 PERCENT MAXIMUM BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET.



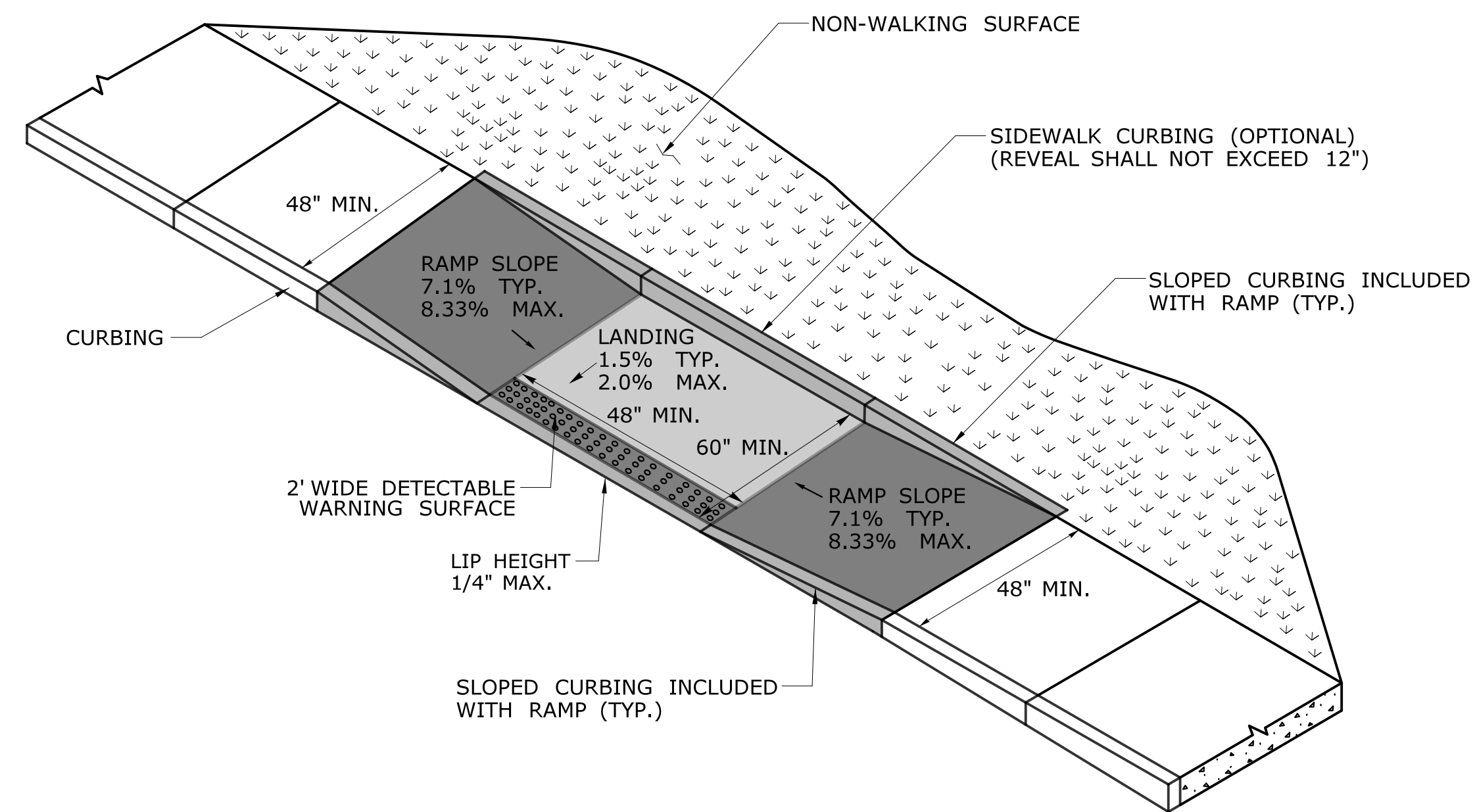
GRADE BREAK GREATER THAN 5'
DETECTABLE WARNING SURFACE LOCATION



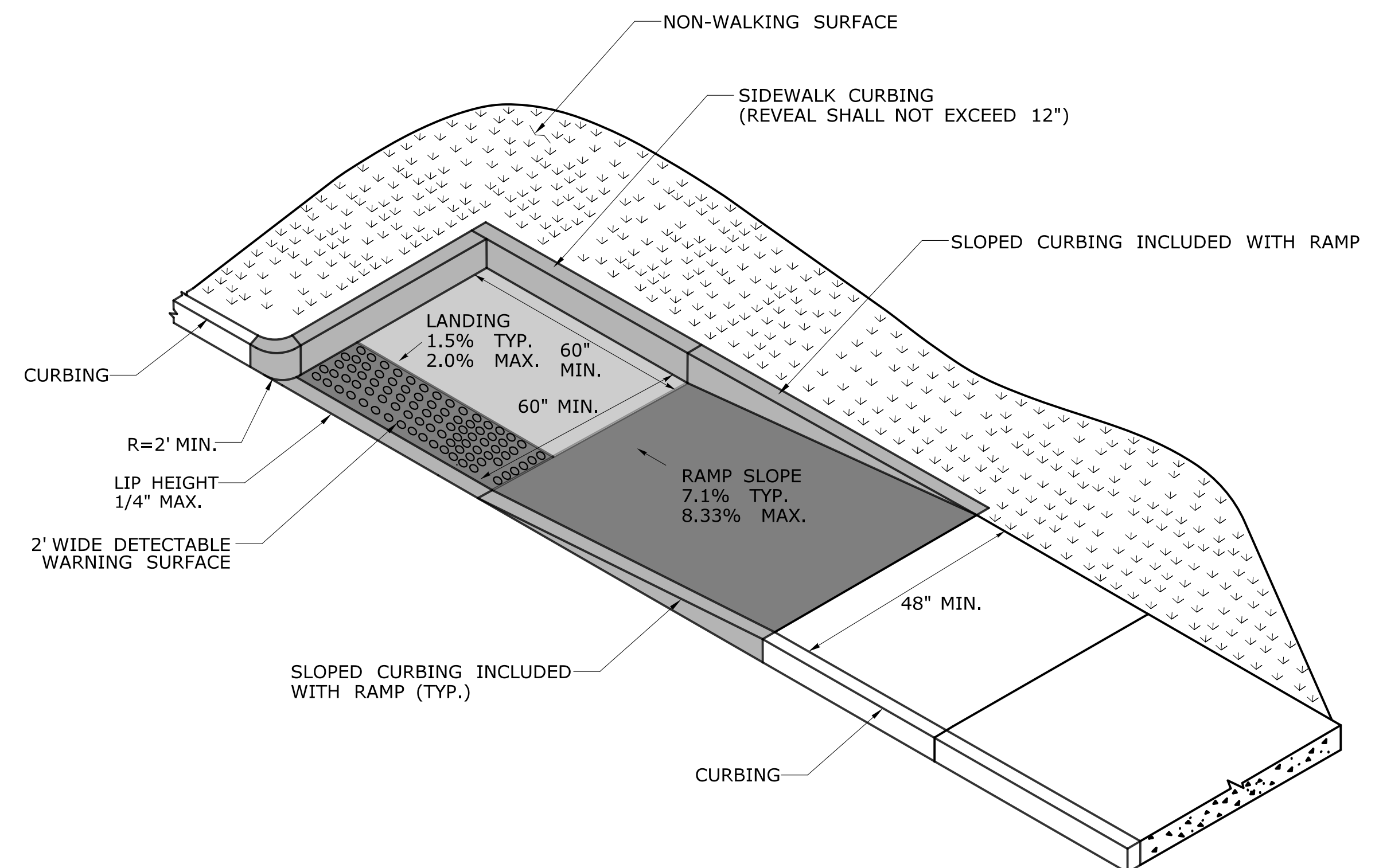
GRADE BREAK OF 5' OR LESS
DETECTABLE WARNING SURFACE LOCATION



**PERPENDICULAR RAMP
WITH 48" BY-PASS
(TYPE 8)**

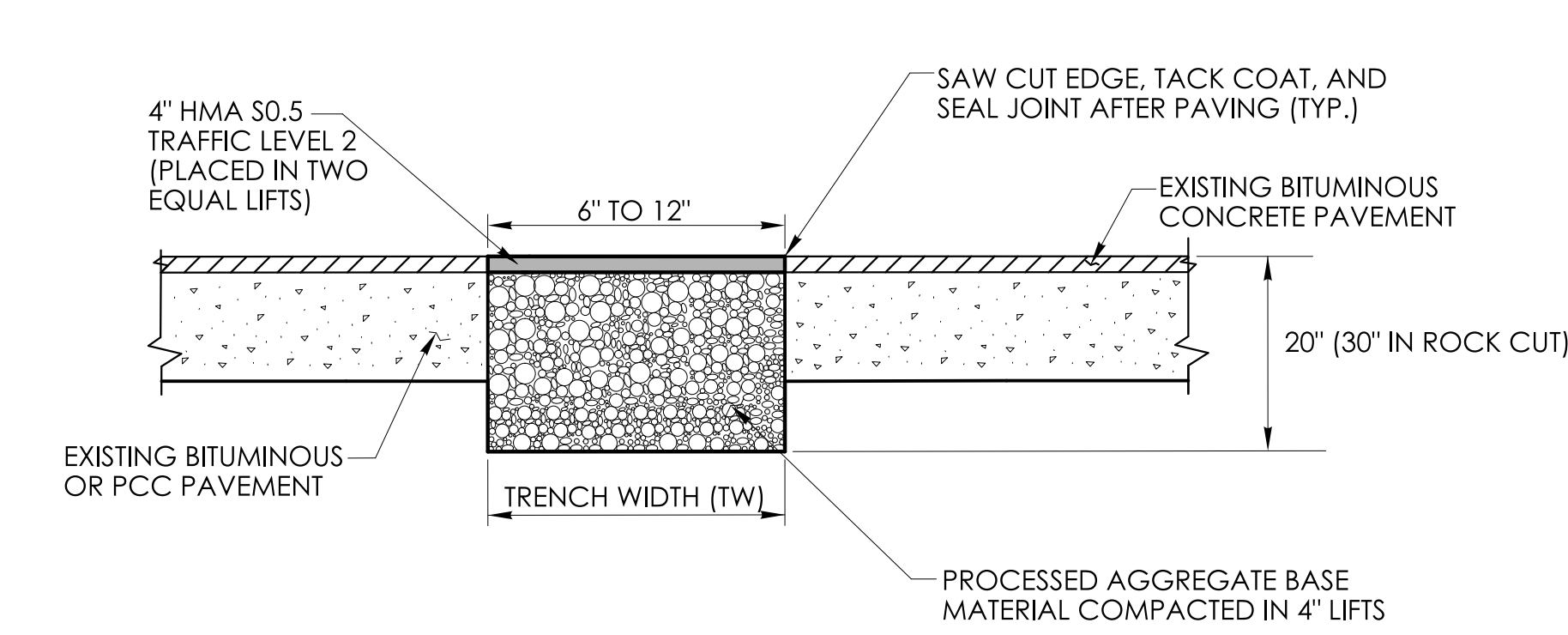


**PARALLEL RAMP WITHOUT
NON-WALKING SURFACE
(TYPE 9)**

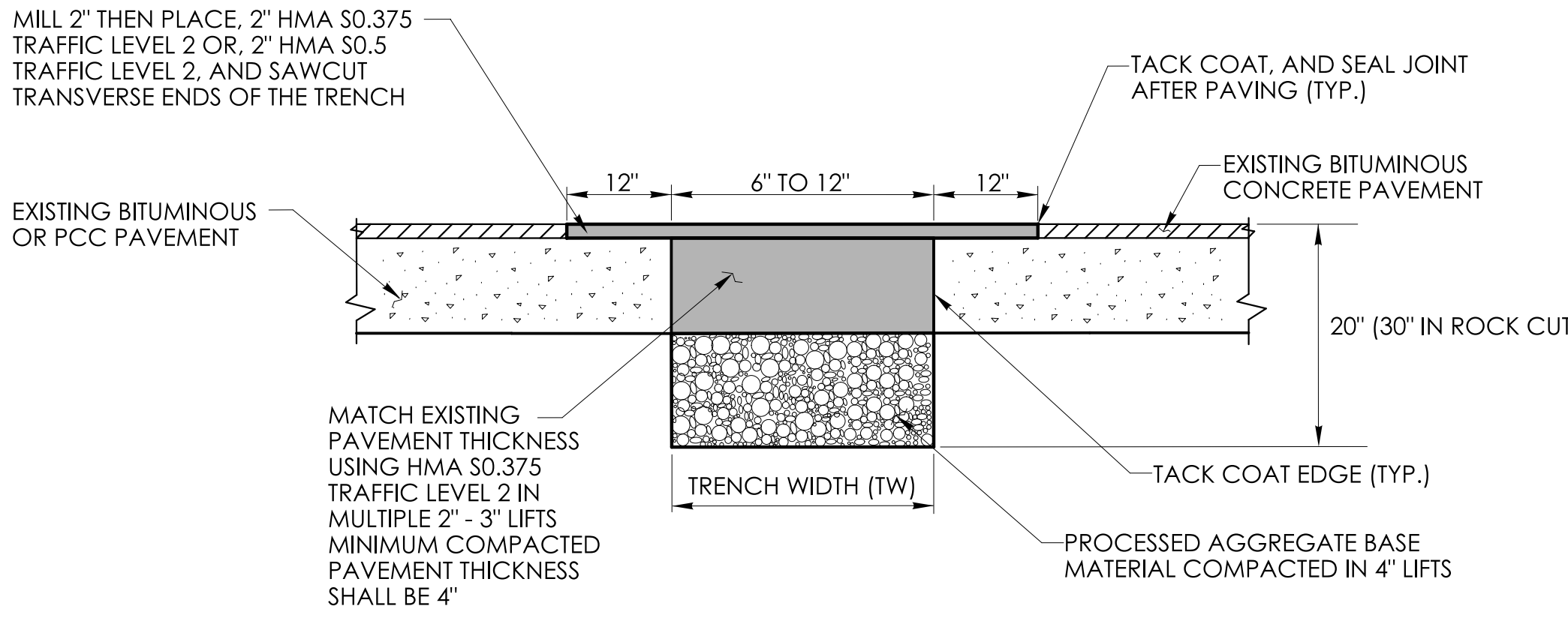


**PARALLEL RAMP
WITH LANDING AT BOTTOM ON CORNER
(TYPE 10)**

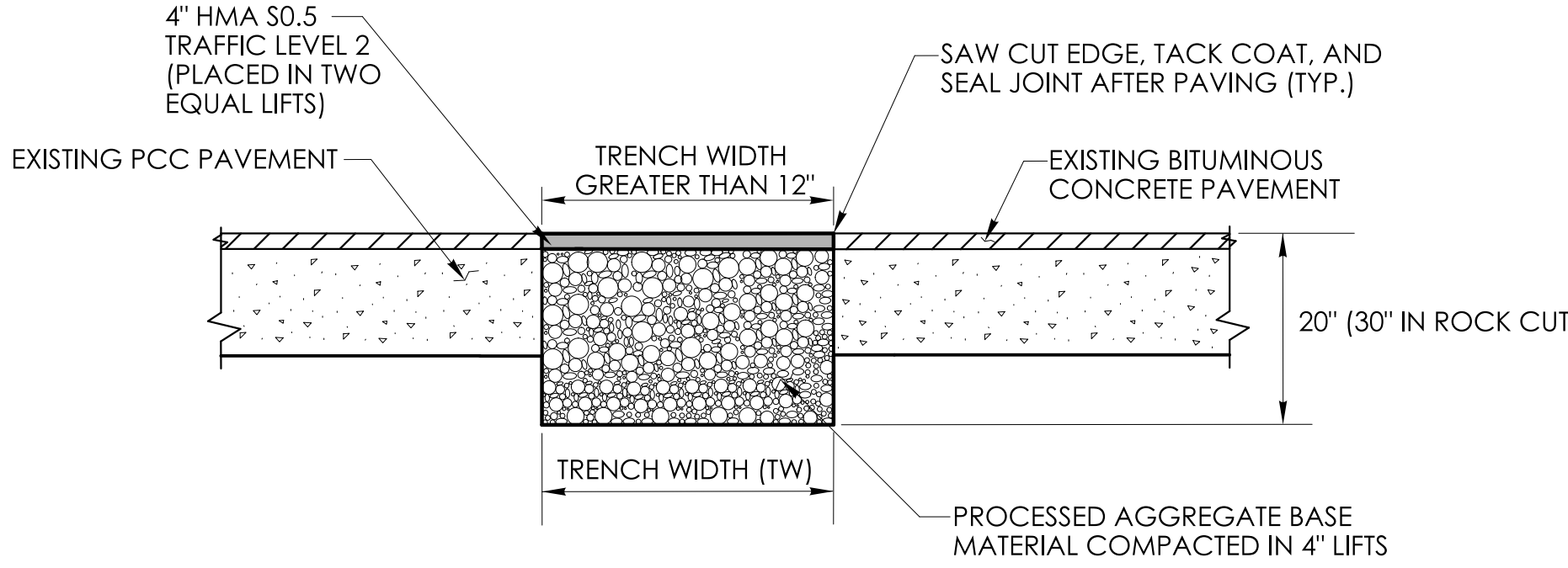
- GENERAL NOTES:
1. LONGITUDINAL TRENCHING FOR JOINTED CONCRETE PAVEMENT:
- A. IF THE LONGITUDINAL TRENCH FALLS BETWEEN THE SLAB CENTERLINE AND THE EDGE OF SLAB, REMOVE CONCRETE AND BITUMINOUS CONCRETE PAVEMENT FROM THE TRENCH EDGE TO THE EDGE OF ROAD. IF THE LONGITUDINAL TRENCH FALLS BETWEEN THE LONGITUDINAL JOINT AND THE SLAB CENTERLINE, REMOVE THE ENTIRE CONCRETE SLAB AND BITUMINOUS CONCRETE PAVEMENT TO THE EDGE OF ROAD. IN EITHER CASE REBUILD WITH THE FOLLOWING:
- a. PLACE HMA S1.0 TRAFFIC LEVEL 2 IN TWO EQUAL 4" - 5" LIFTS TO MATCH EXISTING CONCRETE PAVEMENT THICKNESS
- b. PLACE HMA S0.5 TRAFFIC LEVEL 2 IN 2" - 3" LIFTS TO MATCH EXISTING BITUMINOUS CONCRETE PAVEMENT THICKNESS, WITH THE FINAL LIFT BEING 2"
2. TRANSVERSE TRENCHING FOR JOINTED CONCRETE PAVEMENT:
- | TOTAL SLAB LENGTH (L) | MIN. LENGTH REMAINING |
|-----------------------|--------------------------|
| 40' OR LONGER | 1/4 L |
| 15' - 40' | 10' |
| 15' OR SHORTER | REBUILD TO NEAREST JOINT |
- A. FOR TRANSVERSE TRENCHES, THE MINIMUM SLAB LENGTH AS SHOWN IN TABLE 1 SHALL BE LEFT IN PLACE TO THE NEAREST TRANSVERSE JOINT. IF THIS CRITERIA CANNOT BE MET, THE EXISTING SLAB AREA FROM THE TRENCH EDGE TO THE NEAREST TRANSVERSE JOINT SHALL BE REMOVED AND REBUILT AS FOLLOWS:
- a. PLACE HMA S1.0 TRAFFIC LEVEL 2 IN TWO EQUAL 4" - 5" LIFTS TO MATCH EXISTING CONCRETE PAVEMENT THICKNESS
- b. PLACE HMA S0.5 TRAFFIC LEVEL 2 IN 2" - 3" LIFTS TO MATCH EXISTING BITUMINOUS CONCRETE PAVEMENT THICKNESS, WITH THE FINAL LIFT BEING 2"



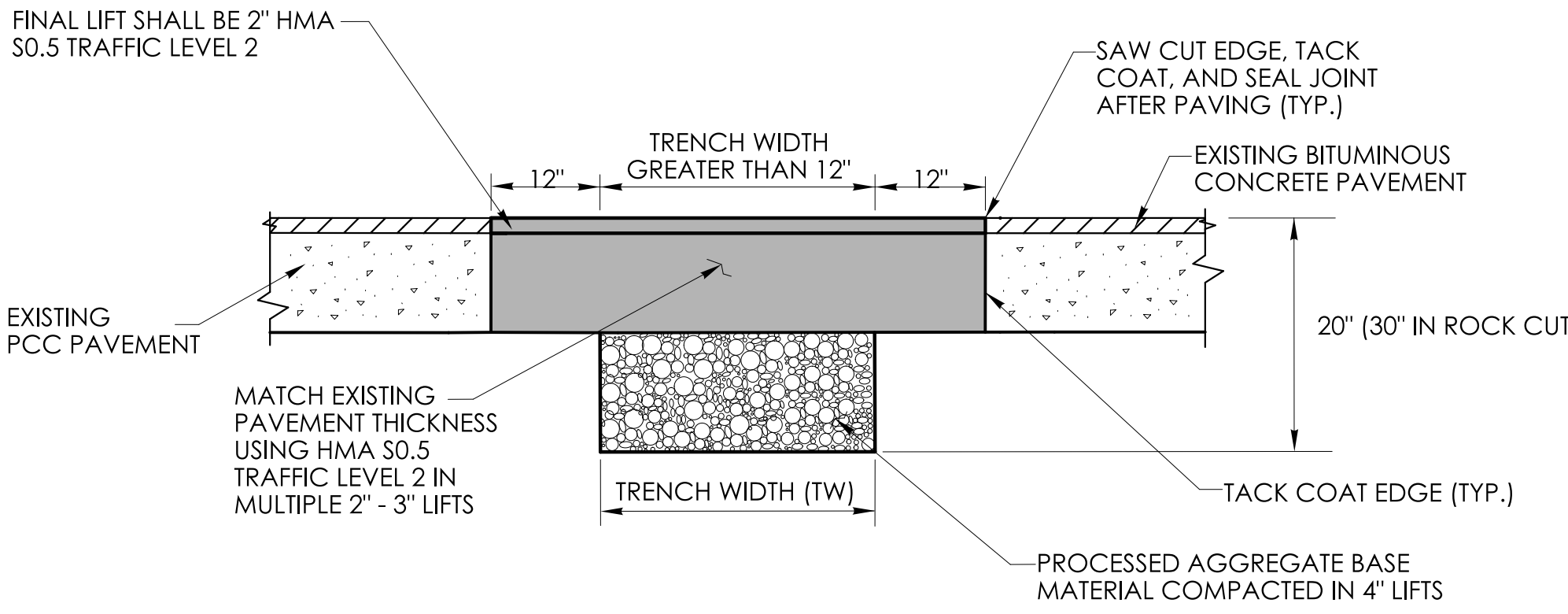
TEMPORARY PAVEMENT - FOR NARROW TRENCH
THROUGH BITUMINOUS CONCRETE OR
OVERLAID PORTLAND CEMENT CONCRETE (PCC)
(TRENCH WIDTH BETWEEN 6" AND 12")



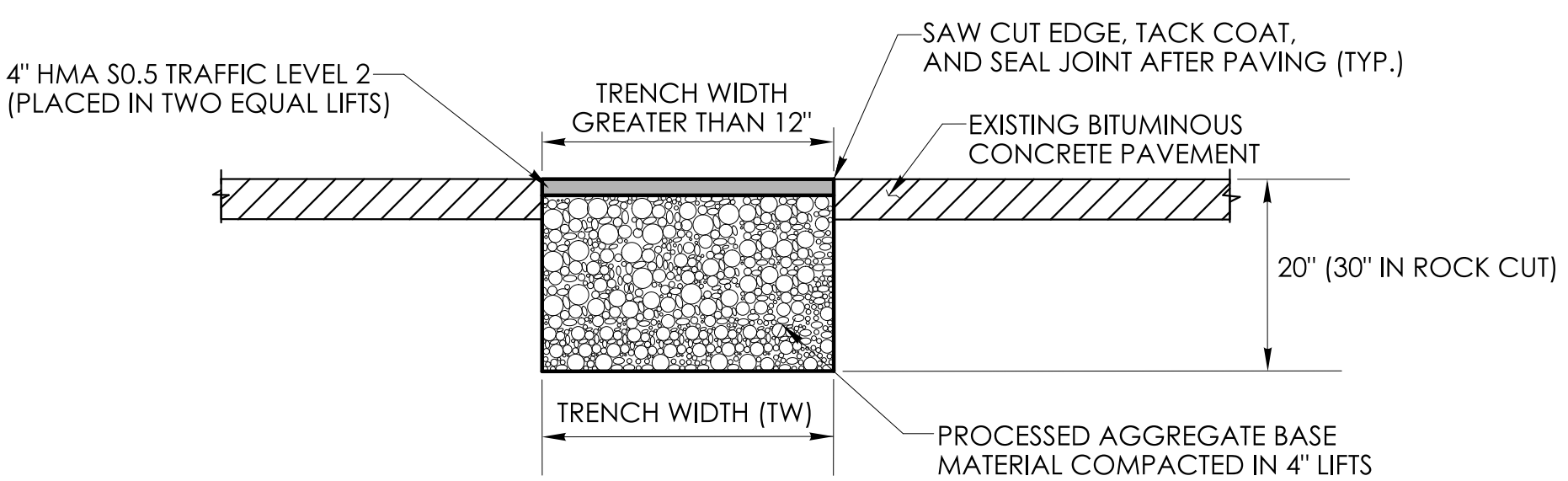
PERMANENT PAVEMENT - FOR NARROW TRENCH
THROUGH BITUMINOUS CONCRETE
OR OVERLAID PORTLAND CEMENT CONCRETE (PCC)
(TRENCH WIDTH BETWEEN 6" AND 12")



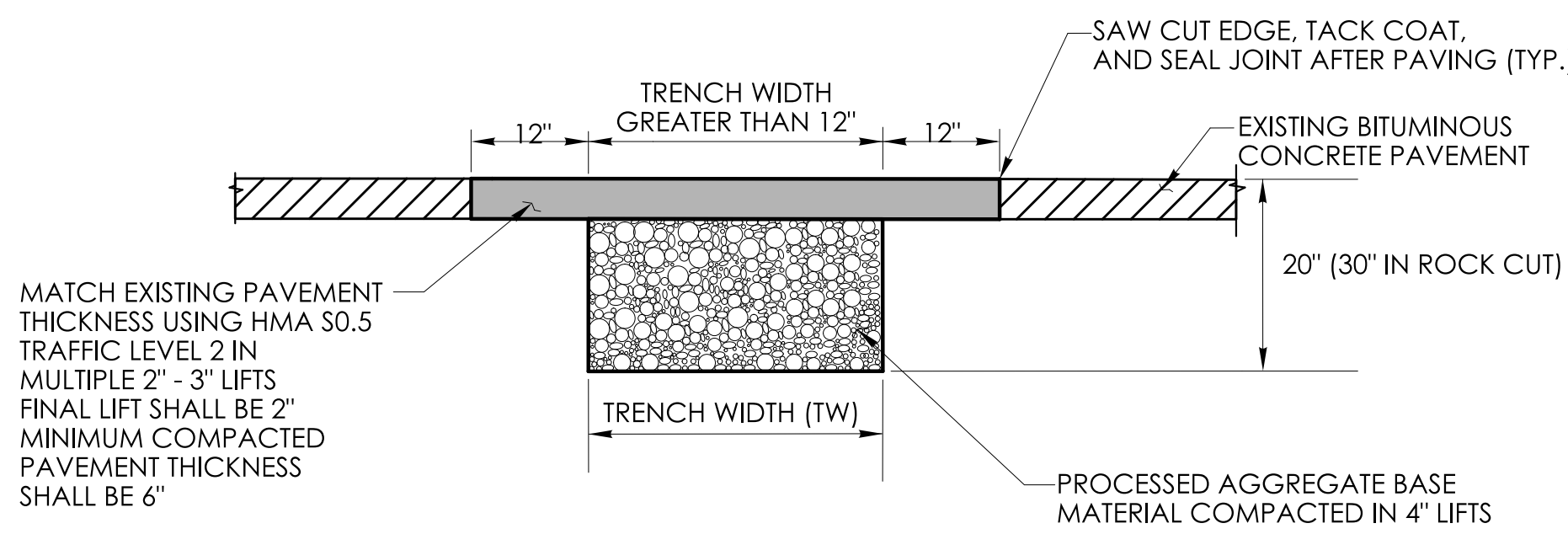
TEMPORARY PAVEMENT FOR TRENCH
THROUGH OVERLAID PORTLAND CEMENT CONCRETE (PCC)
(TRENCH WIDTH GREATER THAN 12")



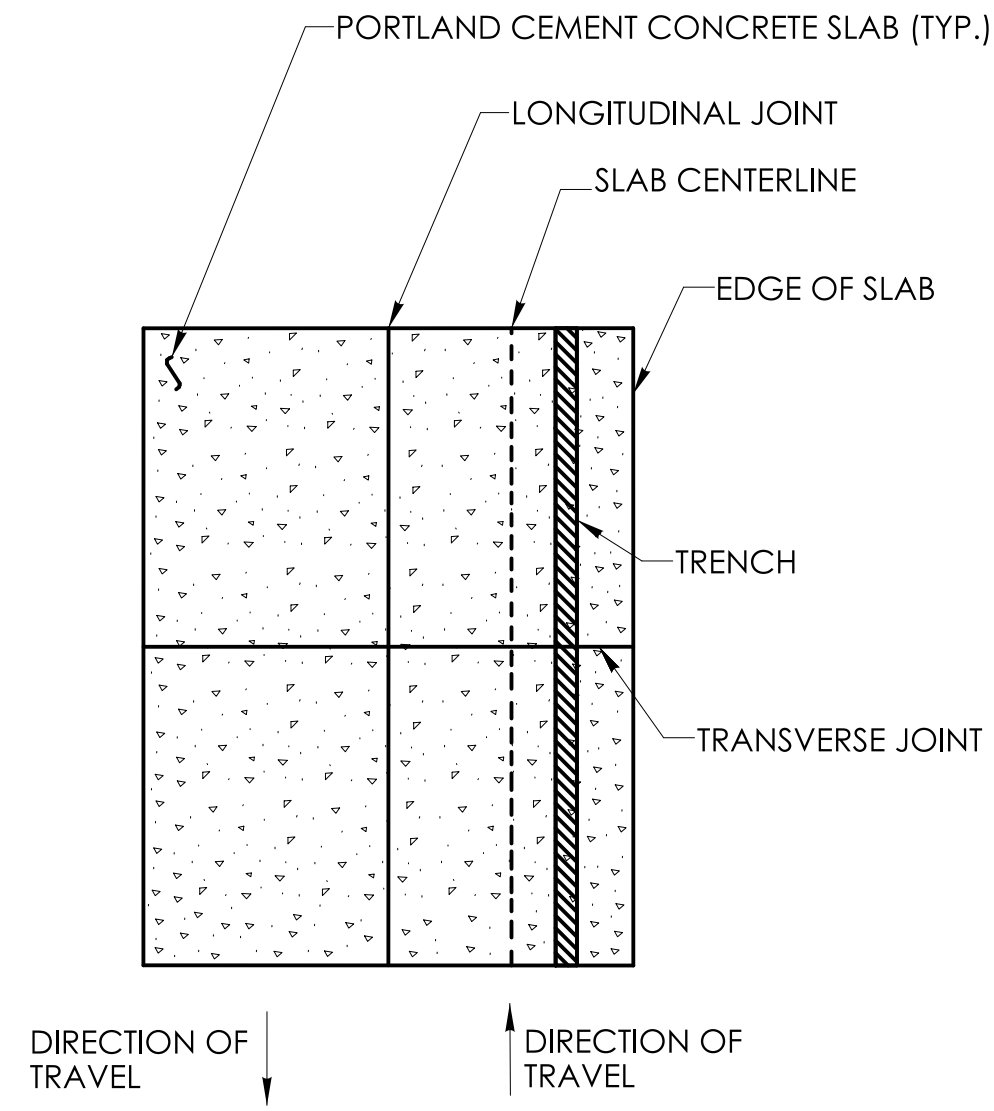
PERMANENT PAVEMENT FOR TRENCH
THROUGH OVERLAID PORTLAN CEMENT CONCRETE (PCC)
(TRENCH WIDTH GREATER THAN 12")



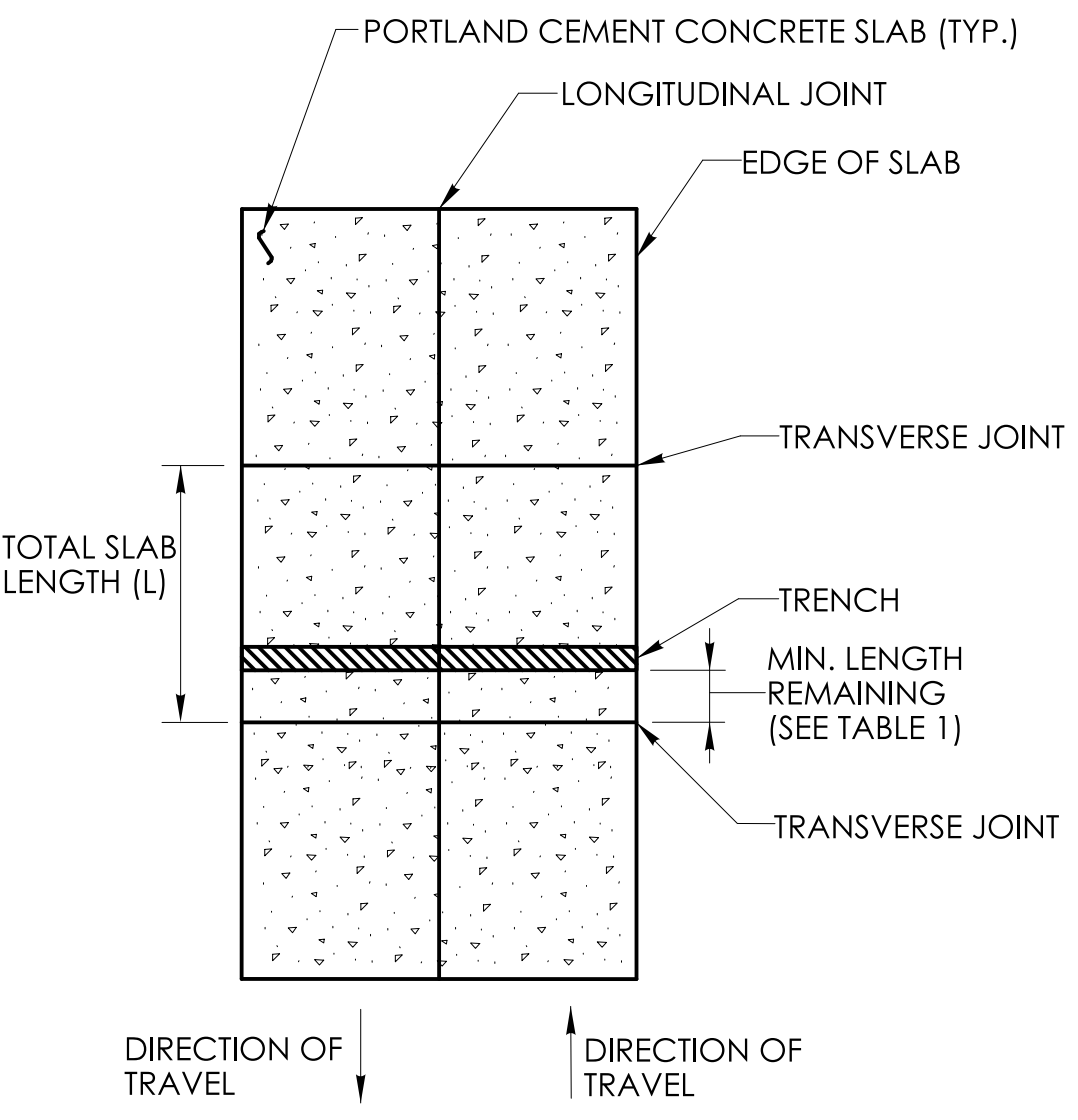
TEMPORARY PAVEMENT FOR
TRENCH THROUGH BITUMINOUS CONCRETE
(TRENCH WIDTH GREATER THAN 12")



PERMANENT PAVEMENT FOR
TRENCH THROUGH BITUMINOUS CONCRETE



LONGITUDINAL TRENCHING
FOR JOINTED CONCRETE PAVEMENT
(SEE NOTE 1)



TRANSVERSE TRENCHING
FOR JOINTED CONCRETE PAVEMENT
(SEE NOTE 2)

R1 - SERIES					R2 - SERIES					R3 - SERIES															R4 - SERIES										R5 - SERIES																																																																																																																																																																																								
<div>R1-1</div> <div></div> <div>LEGEND - WHITE BACKGROUND - RED</div> <table><tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th><th>ALUM. THK.</th></tr><tr><td>1.85</td><td>18</td><td>31-0532</td><td>1</td><td>.080</td></tr><tr><td>5.19</td><td>30</td><td>31-0552</td><td>1</td><td>.080</td></tr><tr><td>7.98</td><td>36</td><td>31-0553</td><td>1</td><td>.080</td></tr><tr><td>13.3</td><td>48</td><td>31-0557</td><td>2</td><td>.100</td></tr></table>					AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	1.85	18	31-0532	1	.080	5.19	30	31-0552	1	.080	7.98	36	31-0553	1	.080	13.3	48	31-0557	2	.100	<div>R2-1</div> <div></div> <div>LEGEND - RED BACKGROUND - WHITE</div> <table><tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th><th>ALUM. THK.</th></tr><tr><td>5.00</td><td>24X30</td><td>31-5505</td><td>1</td><td>.080</td></tr><tr><td>7.50</td><td>30X36</td><td>31-5504</td><td>1</td><td>.080</td></tr><tr><td>12.00</td><td>36X48</td><td>31-5506</td><td>2</td><td>.100</td></tr><tr><td>20.00</td><td>48X60</td><td>31-5507</td><td>2</td><td>.100</td></tr></table>					AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	5.00	24X30	31-5505	1	.080	7.50	30X36	31-5504	1	.080	12.00	36X48	31-5506	2	.100	20.00	48X60	31-5507	2	.100	<div>R3-1</div> <div></div> <div>LEGEND - BLACK BACKGROUND - WHITE CIRCLE & DIAGONAL - RED</div> <table><tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th><th>ALUM. THK.</th></tr><tr><td>4.00</td><td>24X24</td><td>31-1604</td><td>1</td><td>.080</td></tr><tr><td>9.00</td><td>36X36</td><td>31-1627</td><td>2</td><td>.080</td></tr></table>					AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	4.00	24X24	31-1604	1	.080	9.00	36X36	31-1627	2	.080	<div>R3-5</div> <div></div> <div>ONLY</div> <div>31-0183</div> <div></div> <div>ONLY</div> <div>31-0184</div> <div>LEGEND - BLACK BACKGROUND - WHITE CIRCLE & DIAGONAL - RED</div> <table><tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th><th>ALUM. THK.</th></tr><tr><td>7.50</td><td>30X36</td><td></td><td>1</td><td>.080</td></tr></table>					AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	7.50	30X36		1	.080	<div>R3-6</div> <div></div> <div>LEGEND - BLACK BACKGROUND - WHITE CIRCLE & DIAGONAL - RED</div> <table><tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th><th>ALUM. THK.</th></tr><tr><td>7.50</td><td>30X24</td><td>31-0175</td><td>1</td><td>.080</td></tr></table>					AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	7.50	30X24	31-0175	1	.080	<div>R3-8</div> <div></div> <div>ONLY</div> <div>31-0282</div> <div></div> <div>ONLY</div> <div>31-0283</div> <div>LEGEND - BLACK BACKGROUND - WHITE CIRCLE & DIAGONAL - RED</div> <table><tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th><th>ALUM. THK.</th></tr><tr><td>7.50</td><td>36X30</td><td></td><td>2</td><td>.080</td></tr></table>					AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	7.50	36X30		2	.080	<div>R3-8b</div> <div></div> <div>ONLY</div> <div></div> <div>ONLY</div> <div>31-0302</div> <div>2</div> <div>.100</div> <div>LEGEND - BLACK BACKGROUND - WHITE CIRCLE & DIAGONAL - RED</div> <table><tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th><th>ALUM. THK.</th></tr><tr><td>10.00</td><td>48X30</td><td>31-0302</td><td>2</td><td>.100</td></tr></table>					AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	10.00	48X30	31-0302	2	.100											<div>R4-1</div> <div></div> <div>LEGEND - BLACK BACKGROUND - WHITE CIRCLE & DIAGONAL - RED</div> <table><tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th><th>ALUM. THK.</th></tr><tr><td>5.00</td><td>24X30</td><td>31-1502</td><td>1</td><td>.080</td></tr></table>					AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	5.00	24X30	31-1502	1	.080	<div>R4-16</div> <div></div> <div>LEGEND - BLACK BACKGROUND - WHITE CIRCLE & DIAGONAL - RED</div> <table><tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th><th>ALUM. THK.</th></tr><tr><td>20.00</td><td>48X60</td><td>31-1574</td><td>2</td><td>.100</td></tr></table>					AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	20.00	48X60	31-1574	2	.100	<div>R5-1</div> <div></div> <div>LEGEND - WHITE BACKGROUND - WHITE CIRCLE - RED</div> <table><tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th><th>ALUM. THK.</th></tr><tr><td>6.25</td><td>30X30</td><td>31-1119</td><td>1</td><td>.080</td></tr><tr><td>9.00</td><td>36X36</td><td>31-1120</td><td>2</td><td>.080</td></tr><tr><td>16.00</td><td>48X48</td><td>31-1121</td><td>2</td><td>.100</td></tr></table>					AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	6.25	30X30	31-1119	1	.080	9.00	36X36	31-1120	2	.080	16.00	48X48	31-1121	2	.100	<div>R5-10a(CT)</div> <div></div> <div>LEGEND - WHITE BACKGROUND - WHITE CIRCLE - RED</div> <table><tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th><th>ALUM. THK.</th></tr><tr><td>9.00</td><td>36X36</td><td>31-1775</td><td>2</td><td>.100</td></tr></table>					AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	9.00	36X36	31-1775	2	.100
AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.																																																																																																																																																																																																																							
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6.25	30X30	31-1119	1	.080																																																																																																																																																																																																																							
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<div>R1-3P</div> <div></div> <div>LEGEND - WHITE BACKGROUND - RED</div> <table><tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th><th>ALUM. THK.</th></tr><tr><td>0.75</td><td>18X6</td><td>31-0508</td><td></td><td>.080</td></tr></table>					AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	0.75	18X6	31-0508		.080						<div>R3-3</div> <div></div> <div>LEGEND - BLACK BACKGROUND - WHITE CIRCLE & DIAGONAL - RED</div> <table><tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th><th>ALUM. THK.</th></tr><tr><td>4.00</td><td>24X24</td><td>31-1648</td><td>1</td><td>.080</td></tr><tr><td>9.00</td><td>36X36</td><td>31-1647</td><td>2</td><td>.080</td></tr></table>					AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	4.00	24X24	31-1648	1	.080	9.00	36X36	31-1647	2	.080	<div>R3-7</div> <div></div> <div>LEGEND - BLACK BACKGROUND - WHITE CIRCLE & DIAGONAL - RED</div> <table><tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th><th>ALUM. THK.</th></tr><tr><td>6.25</td><td>30X30</td><td>31-0117</td><td>1</td><td>.080</td></tr><tr><td>9.00</td><td>36X36</td><td>31-0120</td><td>2</td><td>.080</td></tr></table>					AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	6.25	30X30	31-0117	1	.080	9.00	36X36	31-0120	2	.080	<div>R3-8</div> <div></div> <div>ONLY</div> <div>31-0222</div> <div></div> <div>ONLY</div> <div>31-0223</div> <div>LEGEND - BLACK BACKGROUND - WHITE CIRCLE & DIAGONAL - RED</div> <table><tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th><th>ALUM. THK.</th></tr><tr><td>6.25</td><td>30X30</td><td></td><td>1</td><td>.080</td></tr></table>					AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	6.25	30X30		1	.080	<div>R3-8</div> <div></div> <div>ONLY</div> <div></div> <div>31-0279</div> <div>2</div> <div>.100</div> <div>LEGEND - BLACK BACKGROUND - WHITE CIRCLE & DIAGONAL - RED</div> <table><tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th><th>ALUM. THK.</th></tr><tr><td>8.75</td><td>42X30</td><td>31-0279</td><td>2</td><td>.100</td></tr></table>					AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	8.75	42X30	31-0279	2	.100	<div>R3-8b</div> <div></div> <div>ONLY</div> <div></div> <div>ONLY</div> <div>31-0334</div> <div>2</div> <div>.100</div> <div>LEGEND - BLACK BACKGROUND - WHITE CIRCLE & DIAGONAL - RED</div> <table><tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th><th>ALUM. THK.</th></tr><tr><td>8.75</td><td>42X30</td><td>31-0334</td><td>2</td><td>.100</td></tr></table>					AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	8.75	42X30	31-0334	2	.100											<div>R4-7</div> <div></div> <div>LEGEND - BLACK BACKGROUND - WHITE CIRCLE & DIAGONAL - RED</div> <table><tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th><th>ALUM. THK.</th></tr><tr><td>5.00</td><td>24X30</td><td>31-1526</td><td>1</td><td>.080</td></tr><tr><td>12.00</td><td>36X48</td><td>31-1536</td><td>2</td><td>.100</td></tr><tr><td>20.00</td><td>48X60</td><td>31-1546</td><td>2</td><td>.100</td></tr></table>					AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	5.00	24X30	31-1526	1	.080	12.00	36X48	31-1536	2	.100	20.00	48X60	31-1546	2	.100	<div>R5-10a(CT)</div> <div></div> <div>LEGEND - BLACK TOP SECTION BACKGROUND - RED BOTTOM SECTION BACKGROUND - YELLOW</div> <table><tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th><th>ALUM. THK.</th></tr><tr><td>32.50</td><td>60X78</td><td>31-1719</td><td>2</td><td>.125</td></tr></table>					AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	32.50	60X78	31-1719	2	.125	<div>R5-10c</div> <div></div> <div>LEGEND - BLACK TOP SECTION BACKGROUND - RED BOTTOM SECTION BACKGROUND - WHITE</div> <table><tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th><th>ALUM. THK.</th></tr><tr><td>2.00</td><td>24X12</td><td>31-1774</td><td>1</td><td>.080</td></tr></table>					AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	2.00	24X12	31-1774	1	.080																																																		
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NOTES:

1. THE LEGEND "O.S.T.A." SHALL APPEAR ON ALL R-SERIES SIGNS EXCEPT WHEN SUFFIXED WITH THE LETTER "Z".

2. FOR SPECIFIC SIGN DESIGN CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING. FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS". SIGNS OF DIFFERENT DIMENSIONS TO BE ERRECTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.

3. POSTS - SEE STANDARD SHEET TR-1208.02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS."

4. POSTS SHALL BE 4 LBS./FT.

5. SIGNS SHALL BE FABRICATED OF ONE CONTINUOUS PIECE OF SHEET ALUMINUM. SPLICING OF SHEET ALUMINUM WILL NOT BE ACCEPTED.

6. FOR OVERHEAD MOUNTED SIGNS, SEE STANDARD SHEET TR-1114.01 - "BONDING AND UTILITY POLE ATTACHMENT DETAILS, SIGN HANGER, "Y" CLAMP DETAIL."

COLORS:

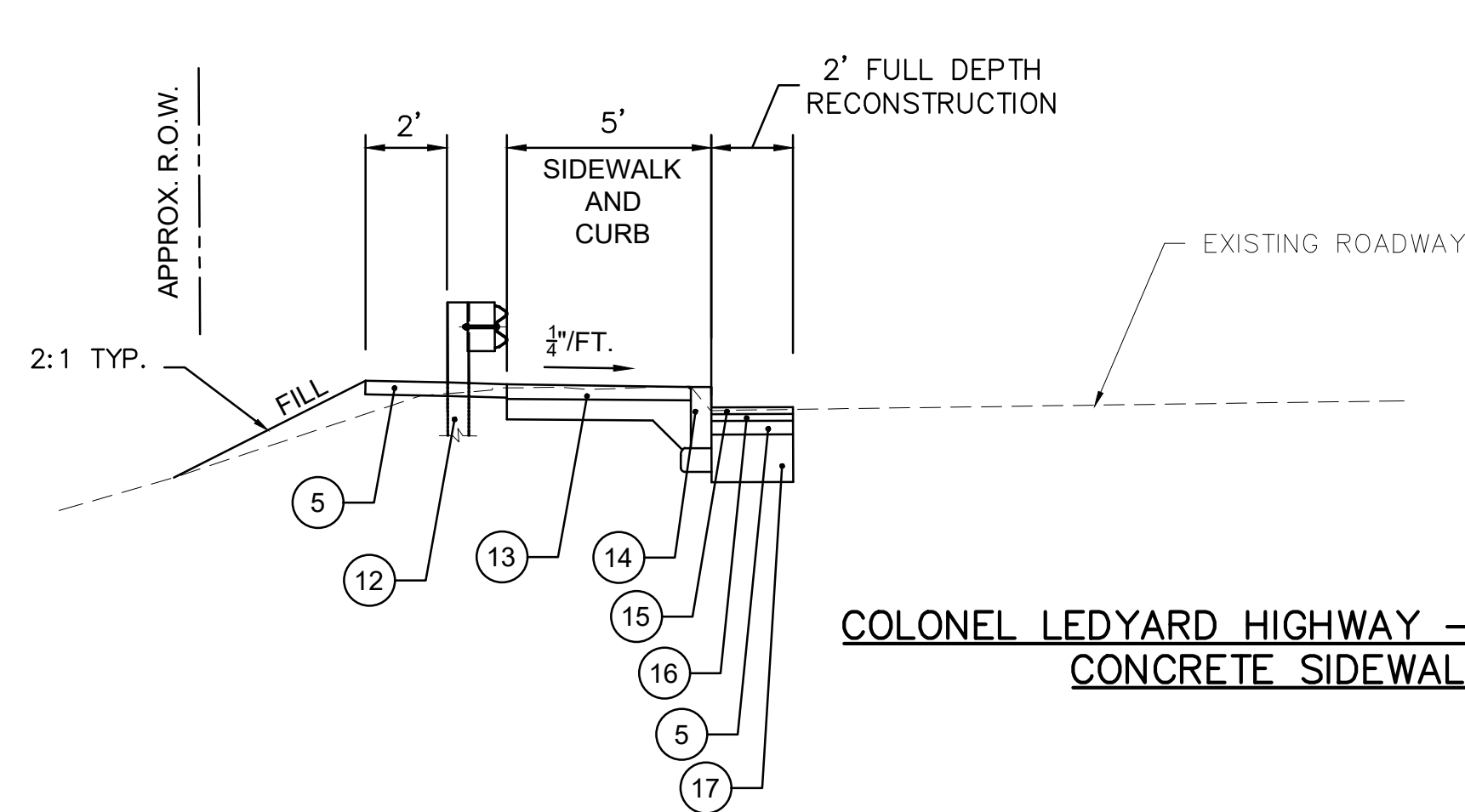
BACKGROUND - WHITE - EXCEPT AS NOTED.

LEGEND - BLACK - EXCEPT AS NOTED.

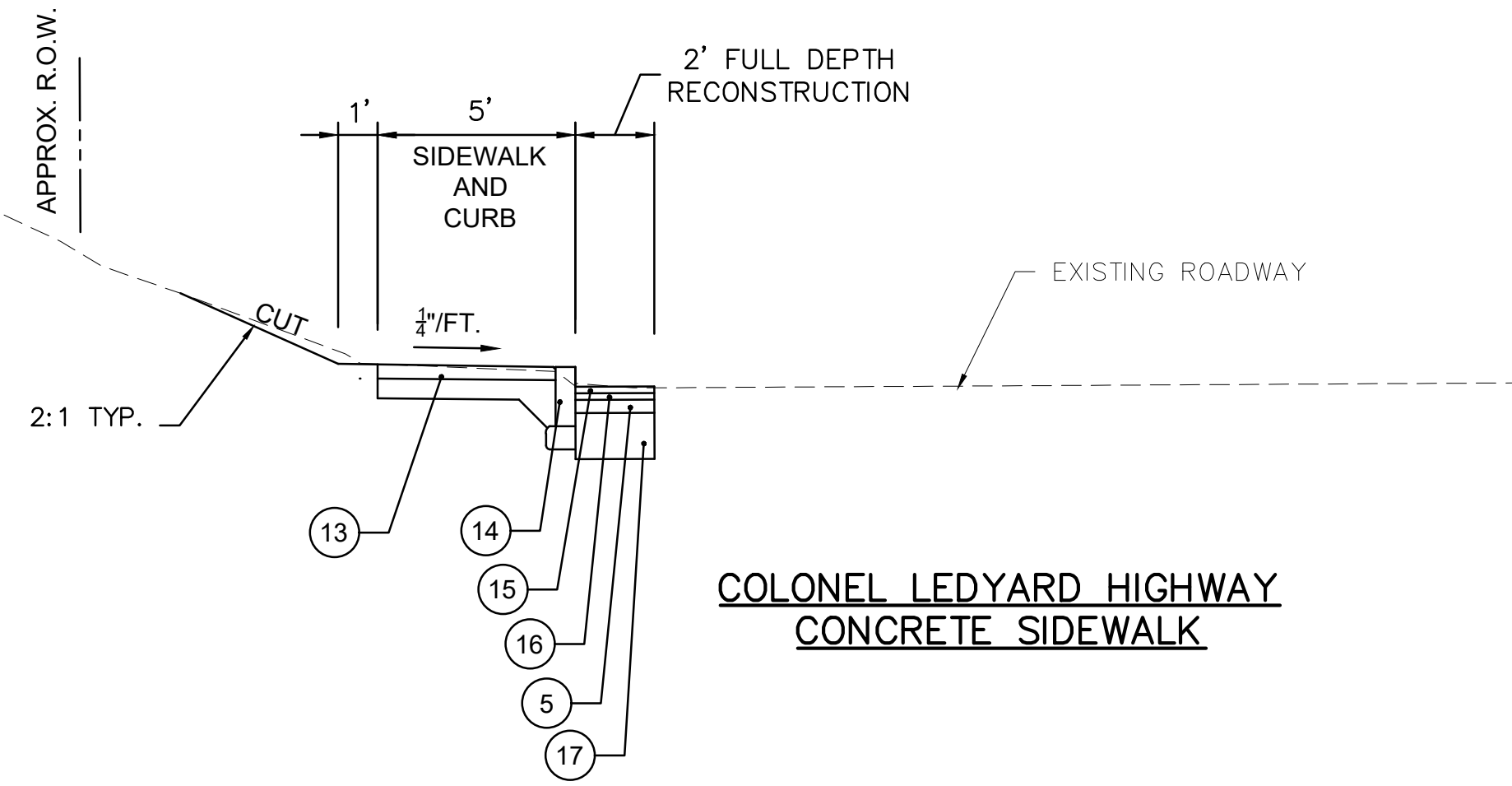
ALL SIGNS TO USE TYPE IX RETROREFLECTIVE SHEETING WITH THE EXCEPTION OF OVERHEAD MOUNTED SIGNS AND SIGNS DESIGNATED WITH AN * WHICH SHALL BE TYPE XI RETROREFLECTIVE SHEETING.

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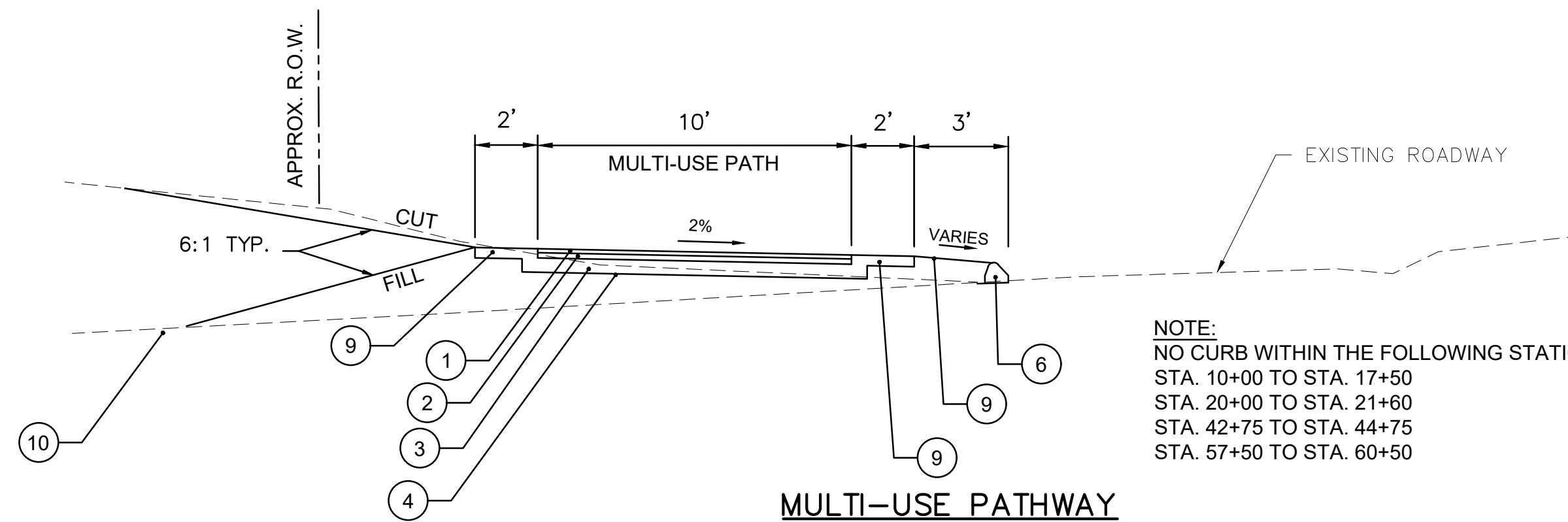


**COLONEL LEDYARD HIGHWAY – ROUTE 117
CONCRETE SIDEWALK**



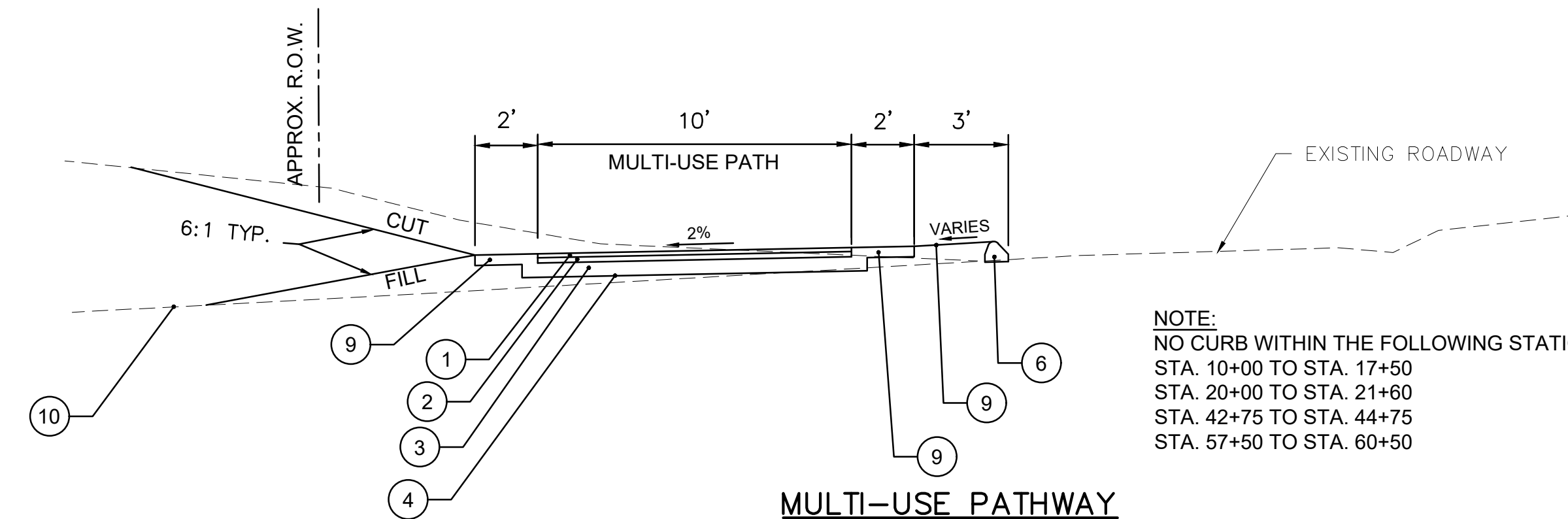
**COLONEL LEDYARD HIGHWAY
CONCRETE SIDEWALK**

START – STA. 11+00
STA. 12+75 – STA. 13+25
STA. 17+70 – STA. 20+00
STA. 22+00 – STA. 24+50
STA. 31+00 – STA. 31+80
STA. 33+50 – STA. 37+50
STA. 40+50 – STA. 42+00
STA. 45+50 – STA. 47+50
STA. 61+00 – END

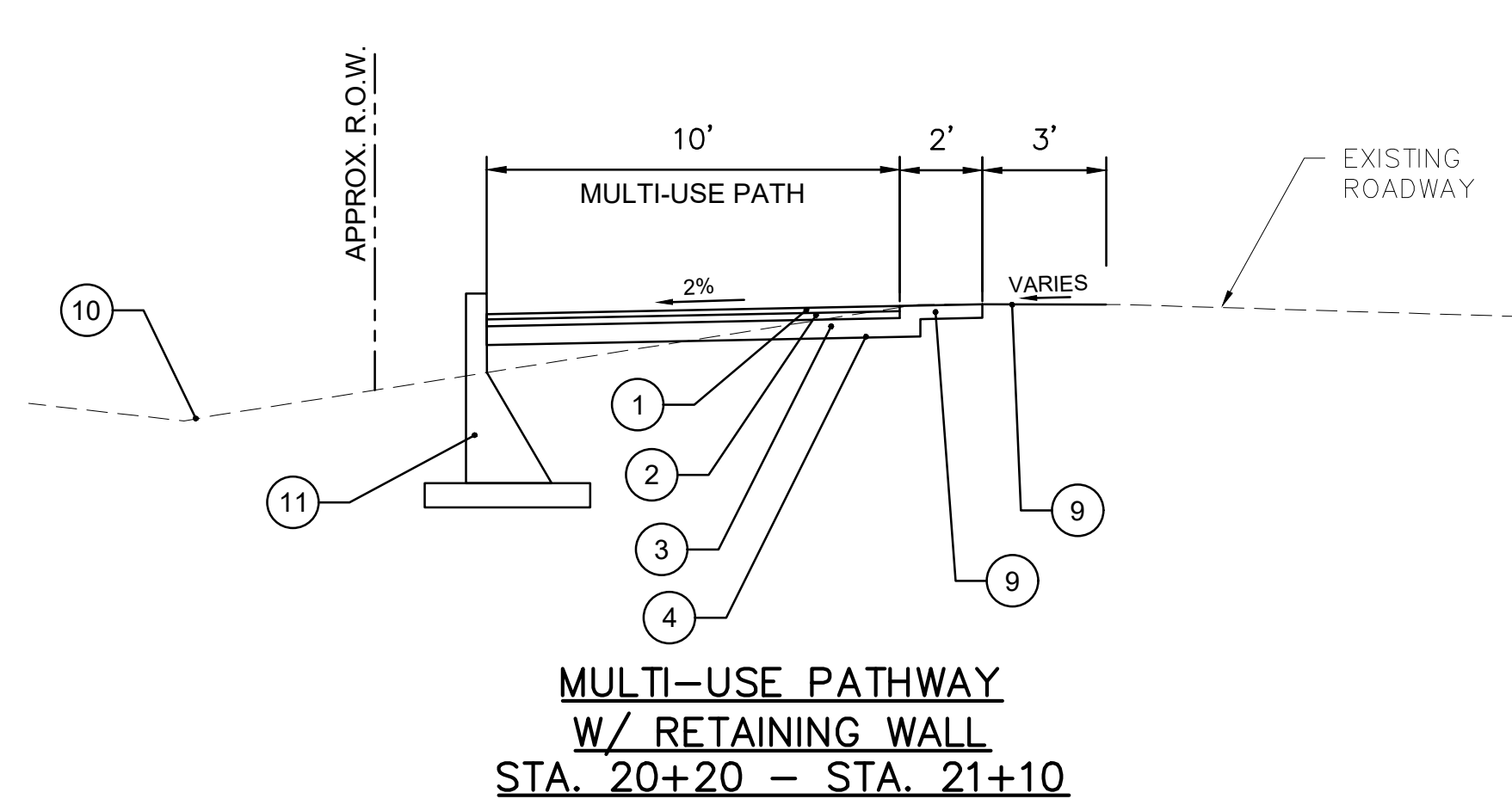


MULTI-USE PATHWAY

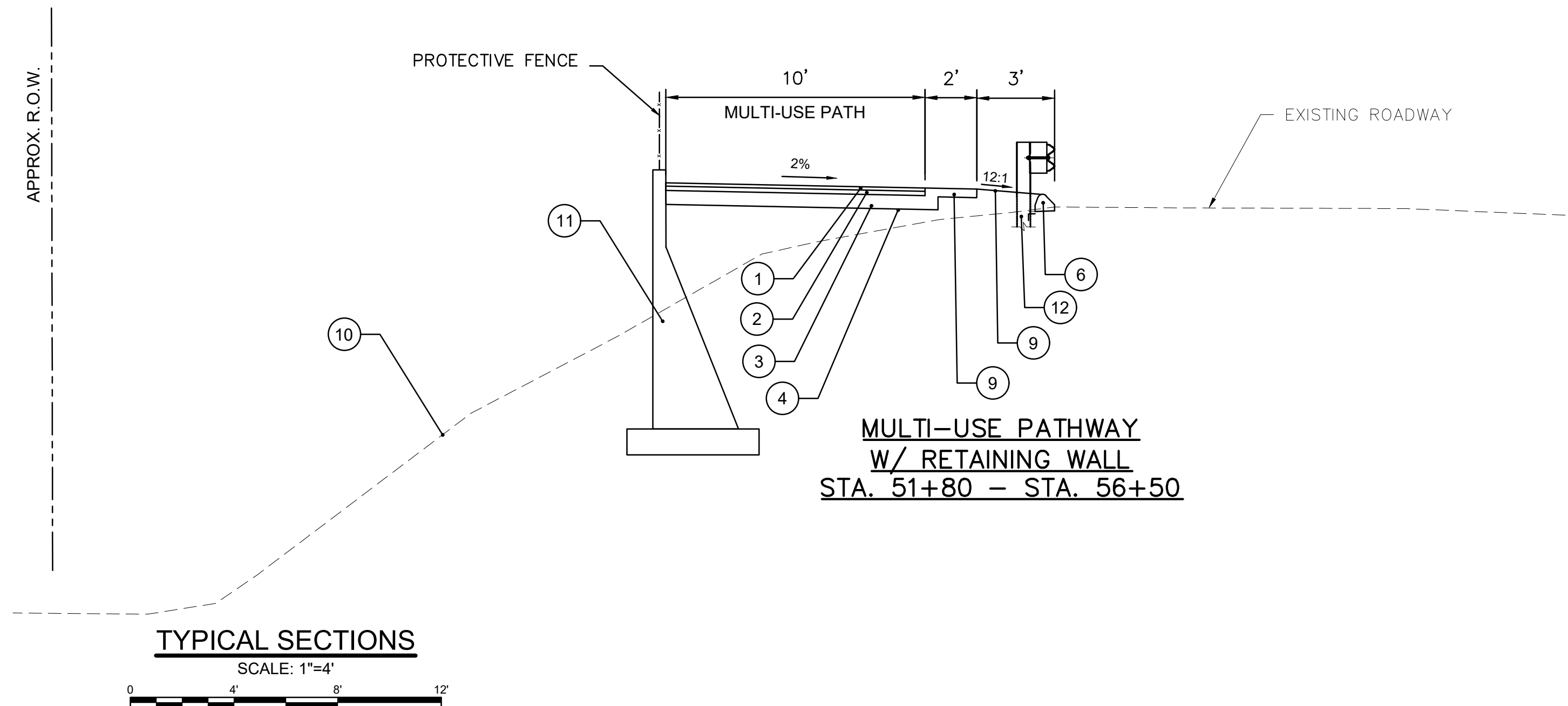
STA. 11+50 – STA. 12+50
STA. 13+50 – STA. 17+50
STA. 25+00 – STA. 30+50
STA. 32+00 – STA. 33+20
STA. 38+00 – STA. 40+00
STA. 42+50 – STA. 45+00
STA. 48+00 – STA. 51+65
STA. 56+50 – STA. 60+50



MULTI-USE PATHWAY



**MULTI-USE PATHWAY
W/ RETAINING WALL
STA. 20+20 – STA. 21+10**



**MULTI-USE PATHWAY
W/ RETAINING WALL
STA. 51+80 – STA. 56+50**

TYPICAL SECTIONS

SCALE: 1"=4'



LEGEND

- ① - 1.5" HMA S0.375
- ② - 2" HMA S0.5
- ③ - 6" PROCESSED AGGREGATE BASE
- ④ - COMPACTED SUBGRADE
- ⑤ - 4" PROCESSED AGGREGATE BASE
- ⑥ - 6" BITUMINOUS CONCRETE LIP CURBING
- ⑦ - 6" CONCRETE CURBING
- ⑧ - CONCRETE SIDEWALK
- ⑨ - 4" TOPSOIL AND TURF ESTABLISHMENT
- ⑩ - EXISTING GRADE
- ⑪ - RETAINING WALL
- ⑫ - METAL BEAM RAIL (R-B MASH)
- ⑬ - CONCRETE SIDEWALK
- ⑭ - CONCRETE CURB
- ⑮ - 2" HMA S0.375
- ⑯ - 2" HMA S0.5
- ⑰ - 14" SUBBASE

NOTES:

1. ALL CUT OR FILL SLOPES TO BE 2:1 MAX, UNLESS OTHERWISE NOTED ON THE CROSS SECTIONS OR APPROVED BY THE ENGINEER
2. CONTRACTOR TO TRANSITION CROSS SLOPE OF MULTI-USE PATHWAY AS NEEDED BETWEEN THE SPECIFIED STATION RANGES

Project:
TOWN OF LEDYARD, CT



LEDYARD HIGH SCHOOL
MULTI-USE PATHWAY &
SIDEWALK EXTENSION
L171-0001

741 COLONEL LEDYARD HIGHWAY
LEDYARD, CT 06339

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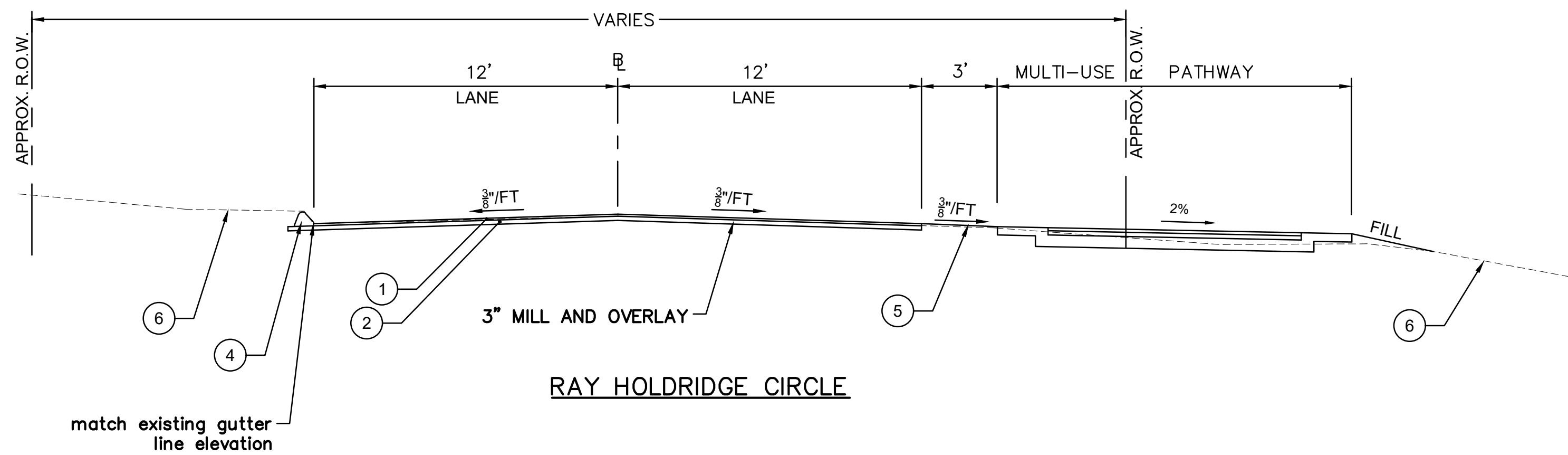
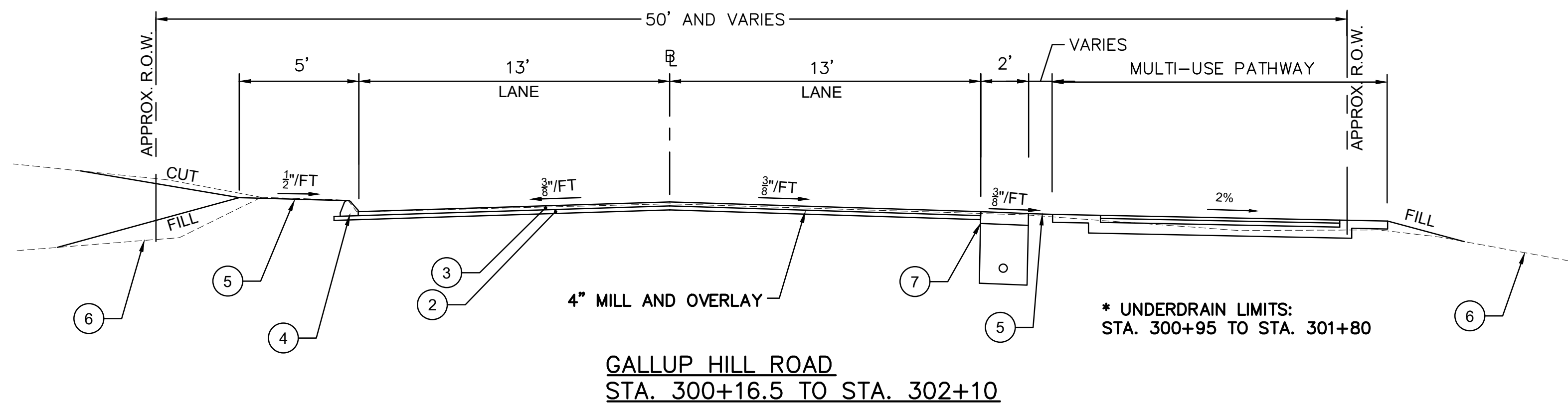
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**MULTI-USE PATHWAY
AND SIDEWALK
TYPICAL SECTIONS**

Sheet Number:

TYP-01

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TYPICAL SECTIONS

SCALE: 1"=4'



LEGEND

- 1 - 1" HMA S0.375
- 2 - 2" HMA S0.5
- 3 - 2" HMA S0.375
- 4 - 6" BITUMINOUS CONCRETE LIP CURBING
- 5 - 4" TOPSOIL AND TURF ESTABLISHMENT
- 6 - EXISTING GRADE
- 7 - 6" CRUSHED STONE W/ 4" UNDERDRAIN *

NOTES:

1. ALL CUT OR FILL SLOPES TO BE 2:1 MAX, UNLESS OTHERWISE NOTED ON THE CROSS SECTIONS OR APPROVED BY THE ENGINEER

Project:
TOWN OF LEDYARD, CT



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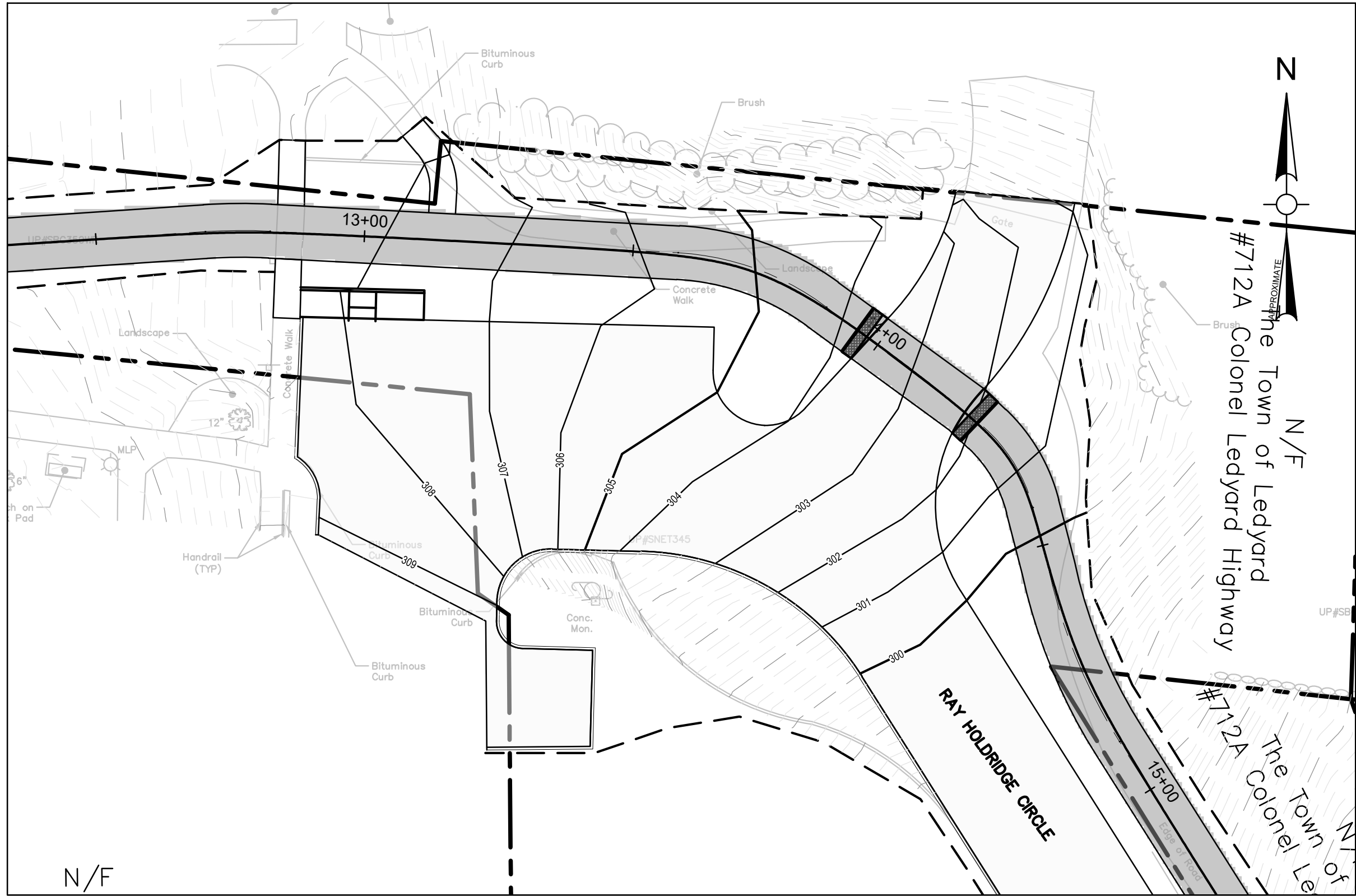
ROADWAY TYPICAL
SECTIONS

Sheet Number:

TYP-02

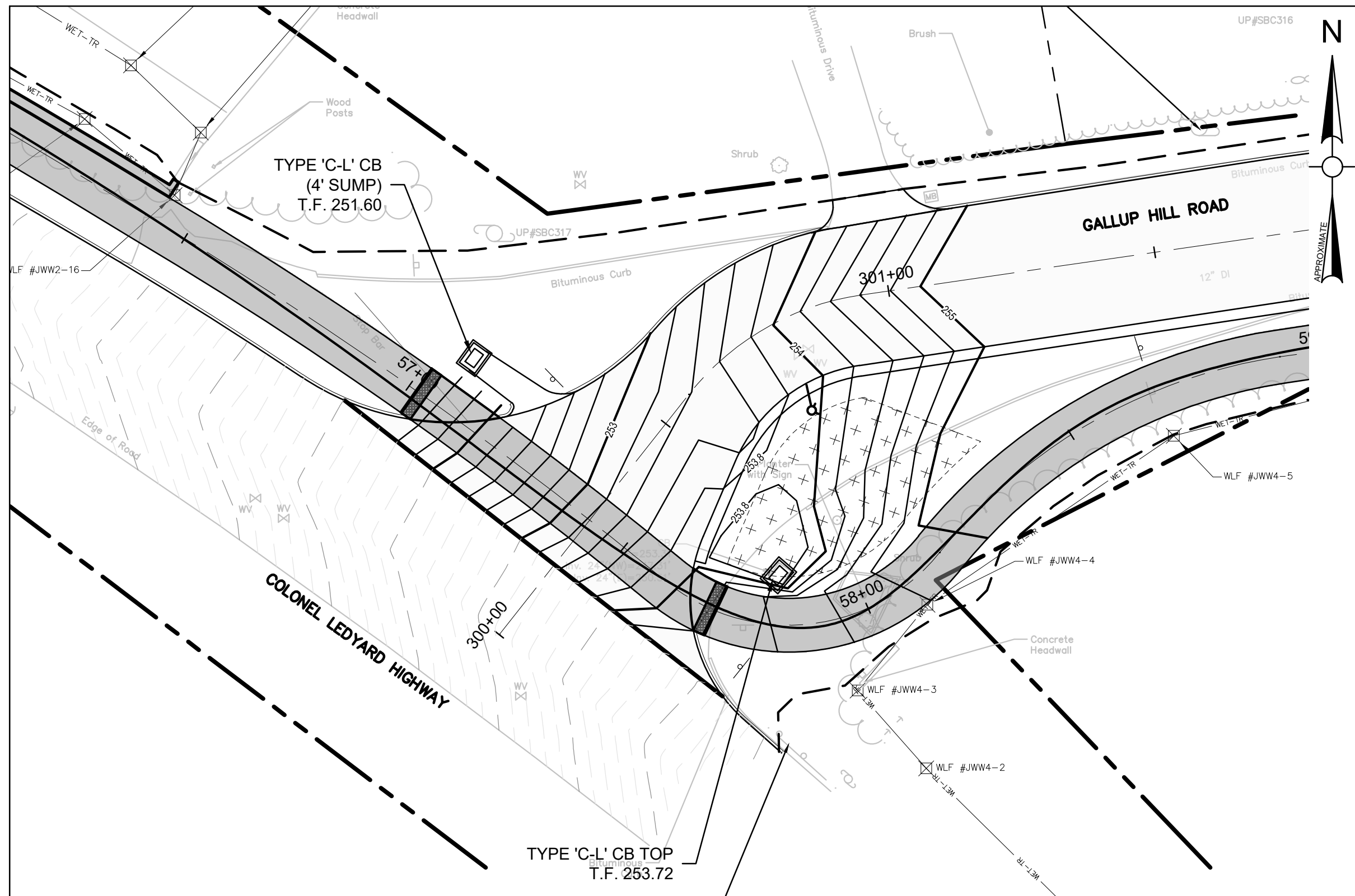
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PLAN
SCALE: 1"=20'

RAY HOLDRIDGE CIRCLE



PLAN
SCALE: 1"=20'

GALLUP HILL ROAD

Project:
TOWN OF LEDYARD, CT



LEDYARD HIGH SCHOOL
MULTI-USE PATHWAY &
SIDEWALK EXTENSION
L171-0001

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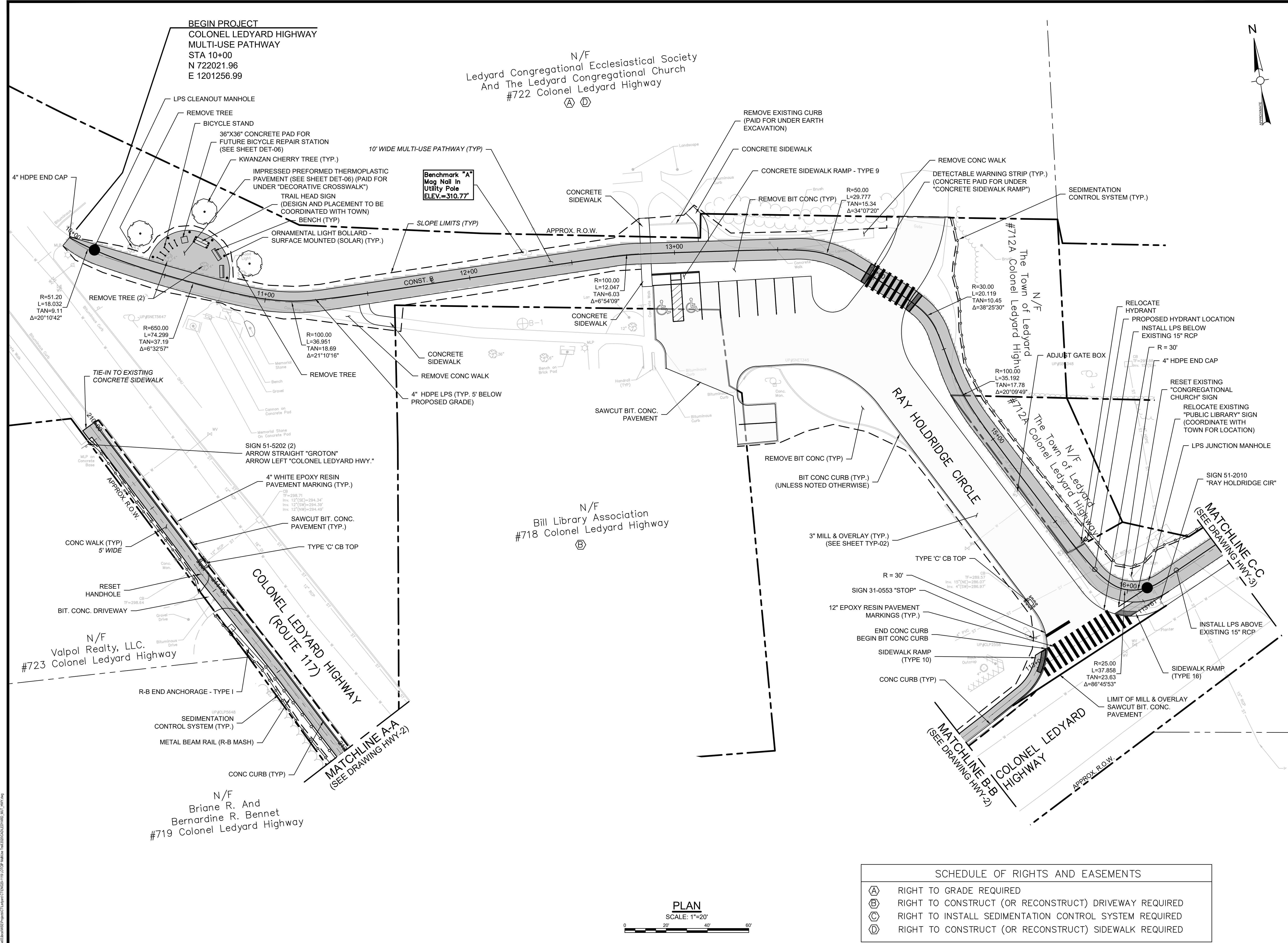
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Drawing Title:


INTERSECTION
GRADING PLANS
RAY HOLDRIDGE CIR
GALLUP HILL RD

Sheet Number:

IGP-1



Project:
TOWN OF LEDYARD, CT



LEDYARD HIGH SCHOOL
MULTI-USE PATHWAY &
SIDEWALK EXTENSION
L171-0001

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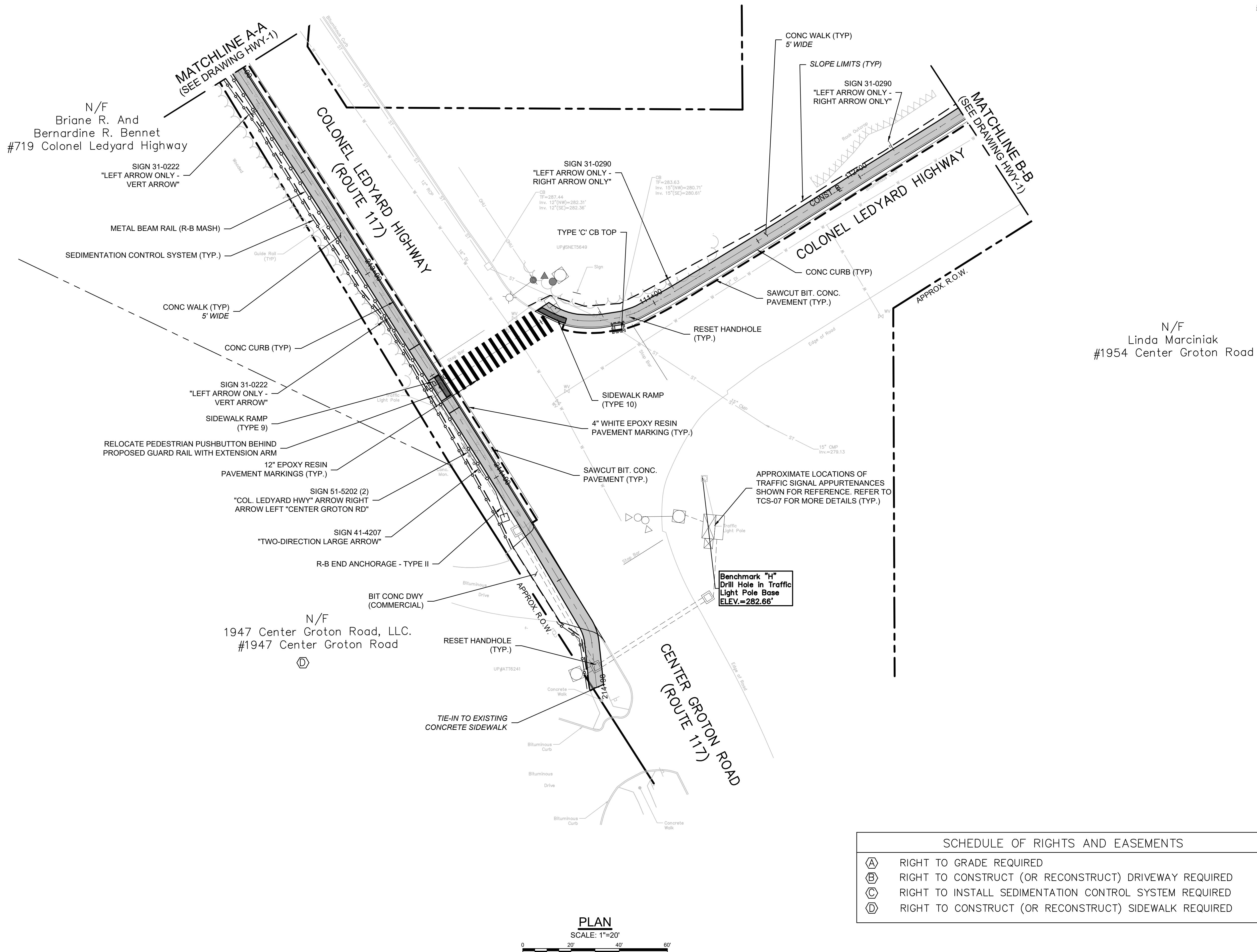
Drawing Title:

**MULTI-USE PATHWAY
& SIDEWALK PLAN
STA. 10+00 TO 16+50**


Sheet Number:

HWY-1

Rev: 1.6 Date: 04/10/2019



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TOWN OF LEDYARD, CT



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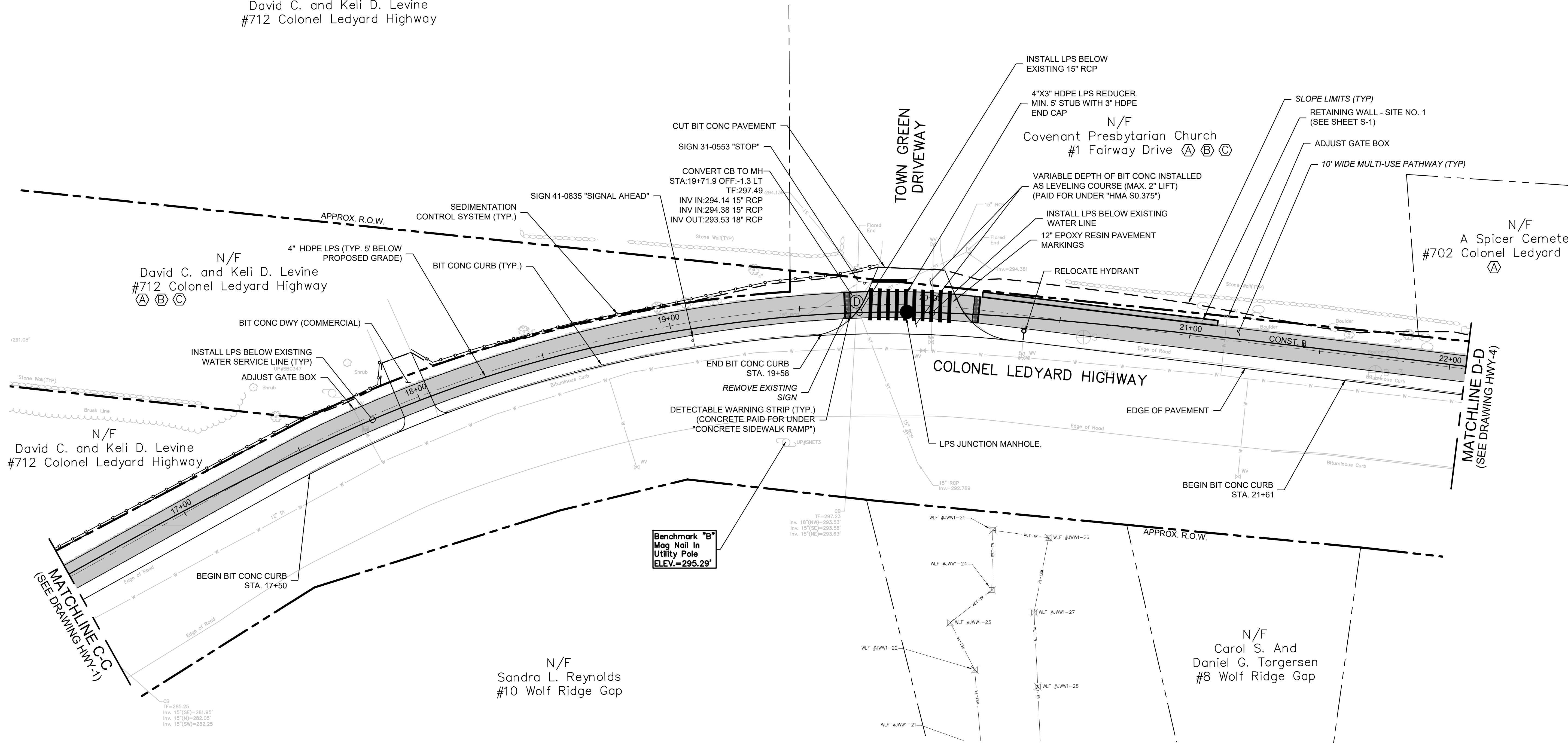
Drawing Title:

**MULTI-USE PATHWAY
& SIDEWALK PLAN**
STA. 211+50 TO 214+96
STA. 110+00 TO 112+50

Sheet Number:

HWY-2

N/F
David C. and Keli D. Levine
#712 Colonel Ledyard Highway



Benchmark "B"
Mag Nail In
Utility Pole
ELEV.=295.29'

PLAN

SCALE: 1"=20'



SCHEDULE OF RIGHTS AND EASEMENTS

- (A) RIGHT TO GRADE REQUIRED
- (B) RIGHT TO CONSTRUCT (OR RECONSTRUCT) DRIVEWAY REQUIRED
- (C) RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM REQUIRED
- (D) RIGHT TO CONSTRUCT (OR RECONSTRUCT) SIDEWALK REQUIRED



Project:
TOWN OF LEDYARD, CT



LEDYARD HIGH SCHOOL
MULTI-USE PATHWAY &
SIDEWALK EXTENSION
L171-0001

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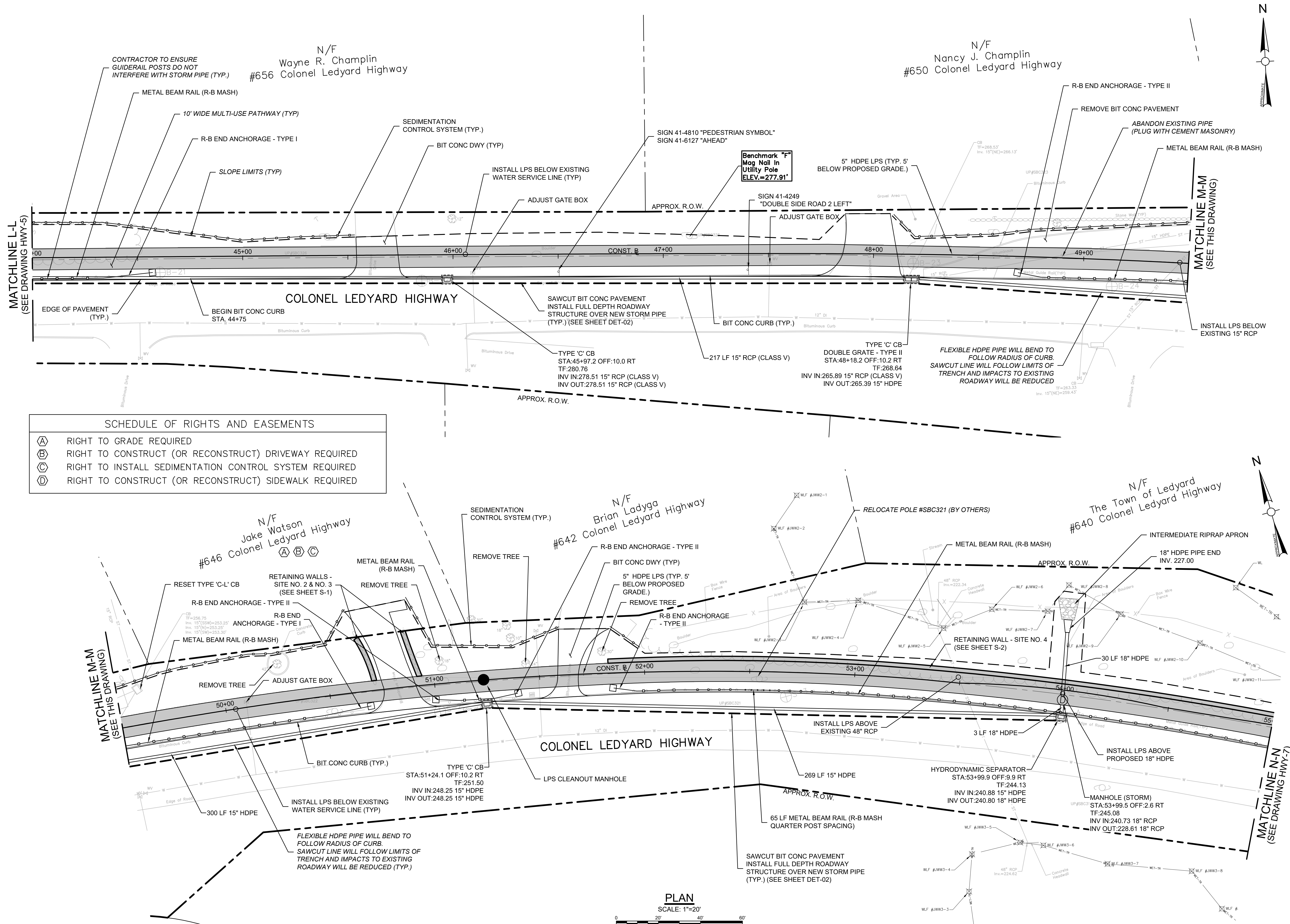
MULTI-USE PATHWAY
& SIDEWALK PLAN
STA. 16+50 TO 22+00

Sheet Number:

HWY-3


Project: TOWN OF LEDYARD, CT		
		
LEDYARD HIGH SCHOOL MULTI-USE PATHWAY & SIDEWALK EXTENSION L171-0001		
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Drawing Title:		
MULTI-USE PATHWAY & SIDEWALK PLAN STA. 22+00 TO 33+25		
Sheet Number:		
HWY-4		

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SCHEDULE OF RIGHTS AND EASEMENTS	
(A)	RIGHT TO GRADE REQUIRED
(B)	RIGHT TO CONSTRUCT (OR RECONSTRUCT) DRIVEWAY REQUIRED
(C)	RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM REQUIRED
(D)	RIGHT TO CONSTRUCT (OR RECONSTRUCT) SIDEWALK REQUIRED

Project:
TOWN OF LEDYARD, CT



LEDYARD HIGH SCHOOL
MULTI-USE PATHWAY &
SIDEWALK EXTENSION
L171-0001

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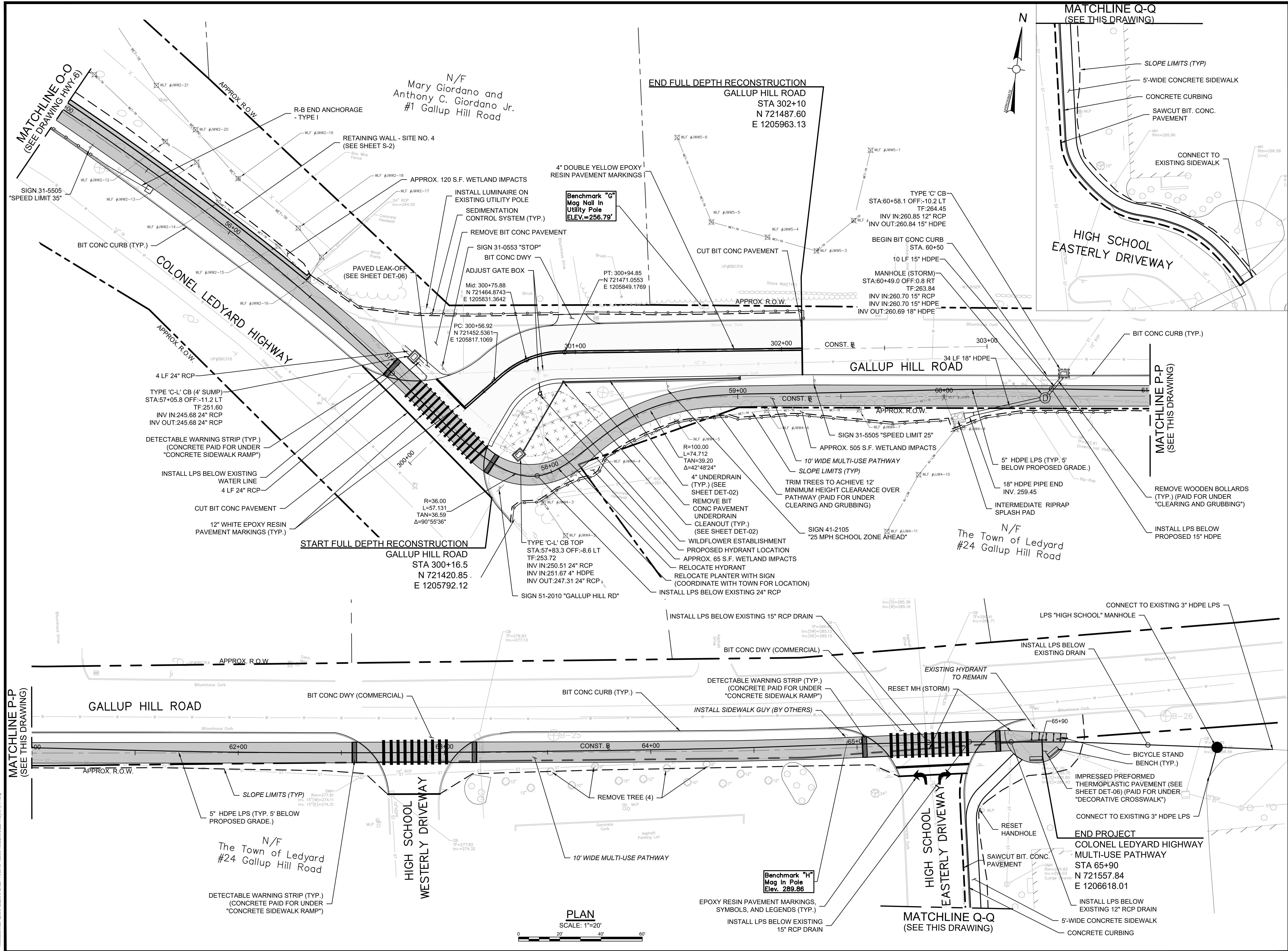
Drawing Title:

MULTI-USE PATHWAY
& SIDEWALK PLAN
STA. 44+00 TO 55+00

Sheet Number:


HWY-6

Rev: 1.6 Date: 04/10/2019



Project:

TOWN OF LEDYARD, CT



LEDYARD HIGH SCHOOL
MULTI-USE PATHWAY &
SIDEWALK EXTENSION
L171-0001

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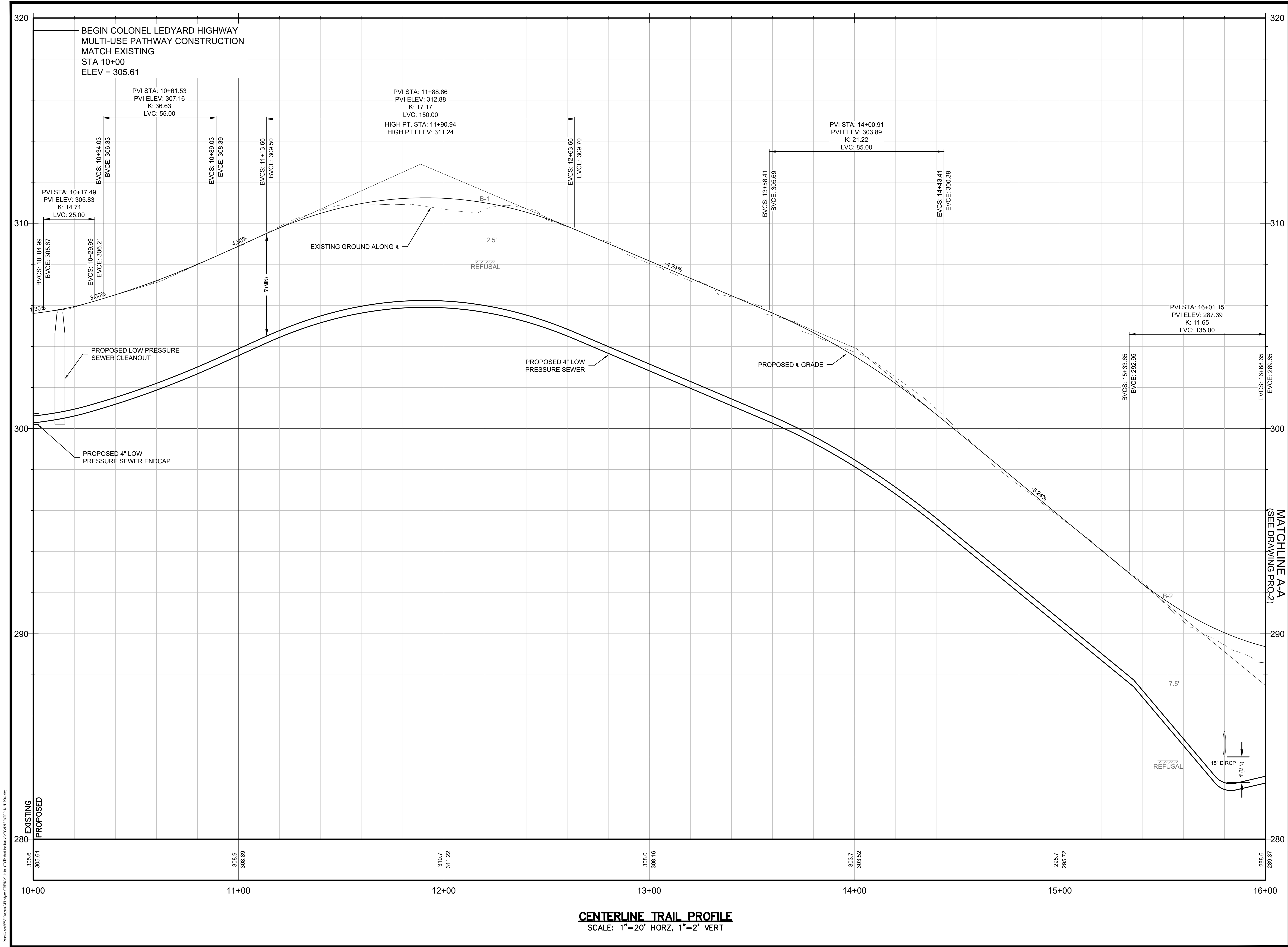
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Drawing Title:


MULTI-USE PATHWAY
& SIDEWALK PLAN
STA. 55+00 TO 65+90

Sheet Number:

HWY-7



Project:
TOWN OF LEDYARD, CT



LEDYARD HIGH SCHOOL
MULTI-USE PATHWAY &
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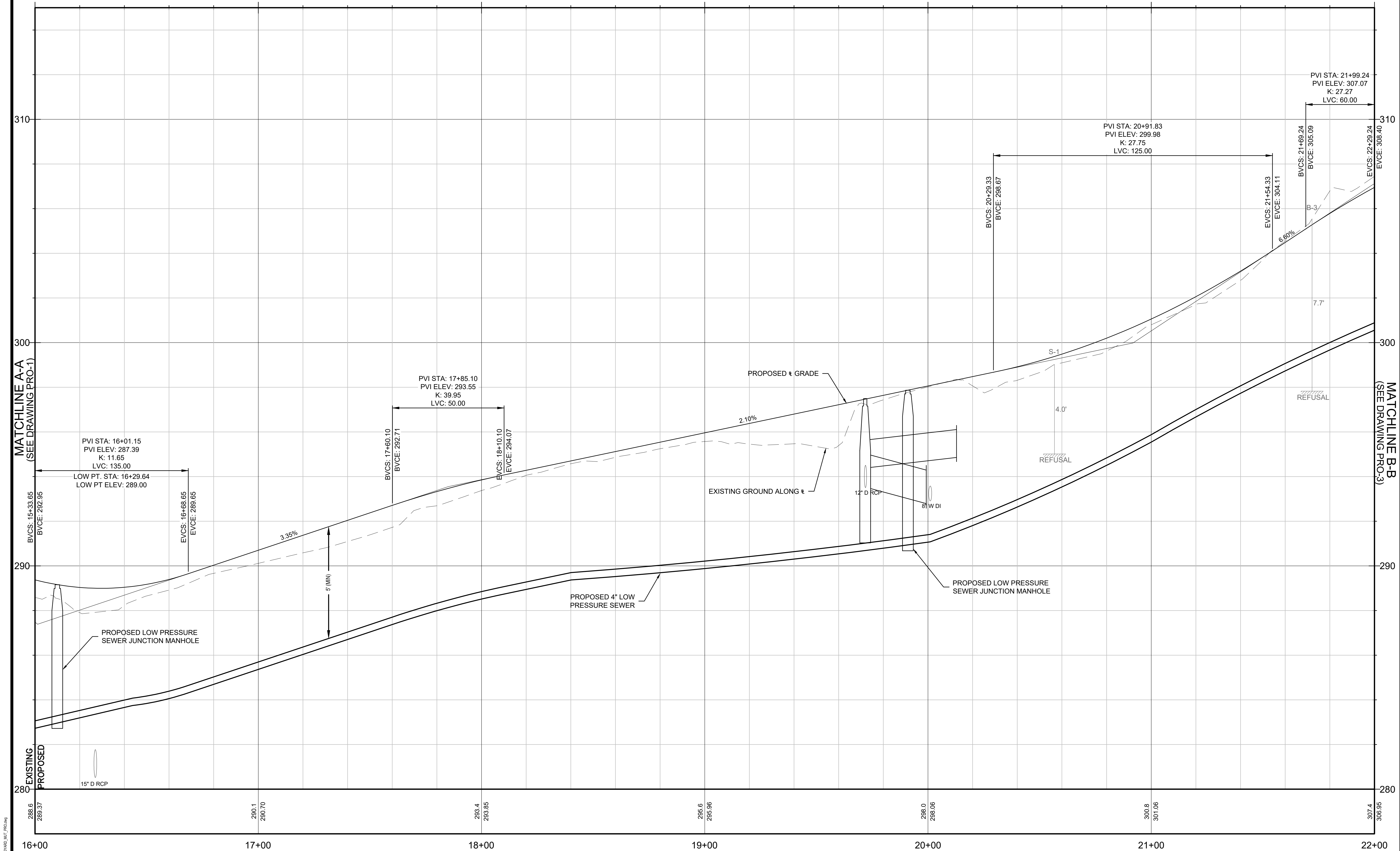
MULTI-USE PATHWAY
PROFILE
STA. 10+00 TO 16+00

Sheet Number:

PRO-01

Rev: 1.6 Date: 04/10/2019

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CENTERLINE TRAIL PROFILE
SCALE: 1"=20' HORZ, 1"=2' VERT

Project:
TOWN OF LEDYARD, CT



LEDYARD HIGH SCHOOL
MULTI-USE PATHWAY &
SIDEWALK EXTENSION
L171-0001

741 COLONEL LEDYARD HIGHWAY
LEDYARD, CT 06339

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Drawn By: NSD

Reviewed By: RC

Approved By: MJJ

W&S Project No.: ENG20-1119

W&S File No.:

Drawing Title:

**MULTI-USE PATHWAY
PROFILE
STA. 16+00 TO 22+00**

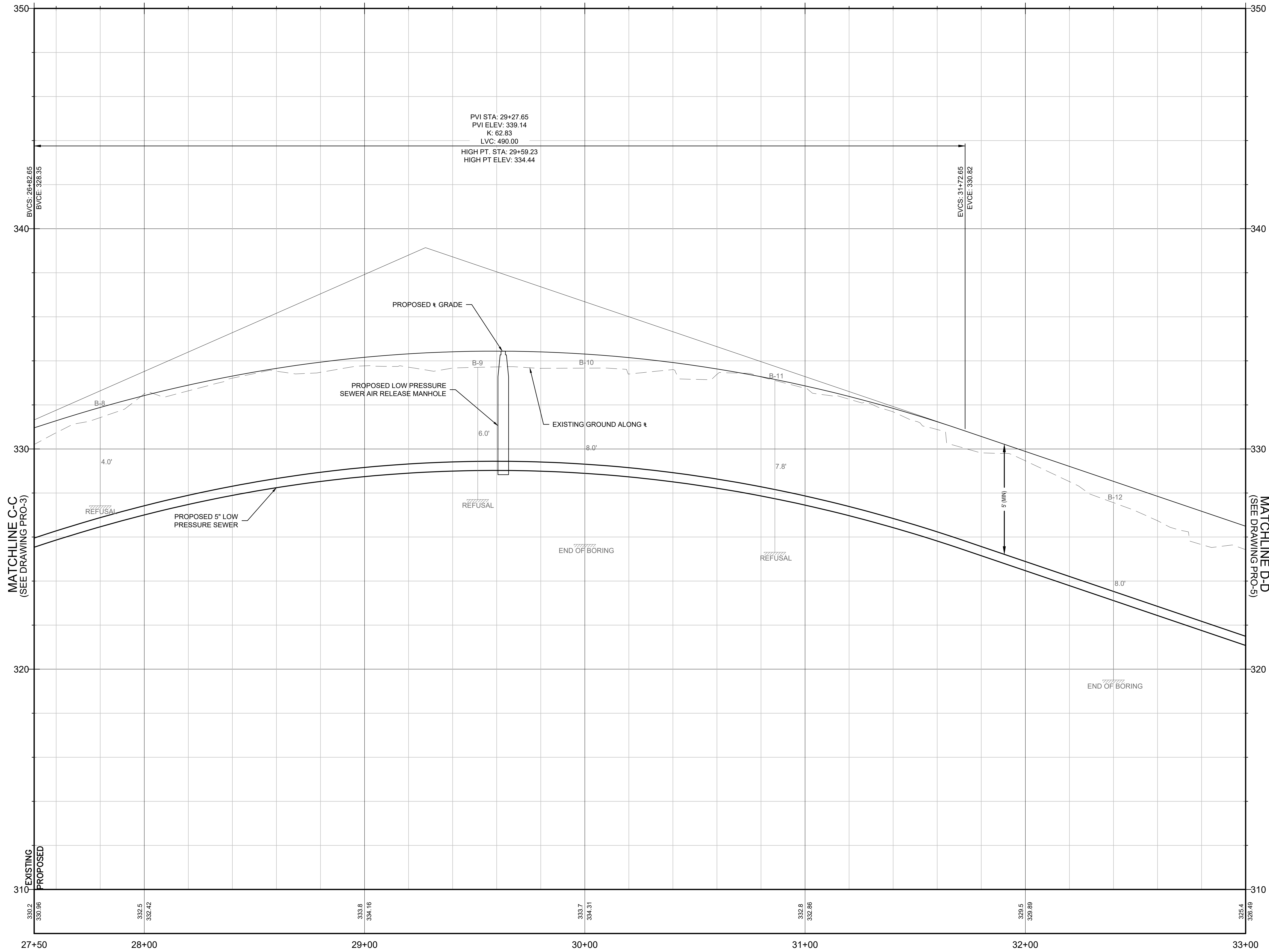
Sheet Number:

PRO-02



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CENTERLINE TRAIL PROFILE
SCALE: 1"=20' HORZ, 1"=2' VERT

Project: TOWN OF LEDYARD, CT



LEDYARD HIGH SCHOOL
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L171-0001

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Drawing Title:

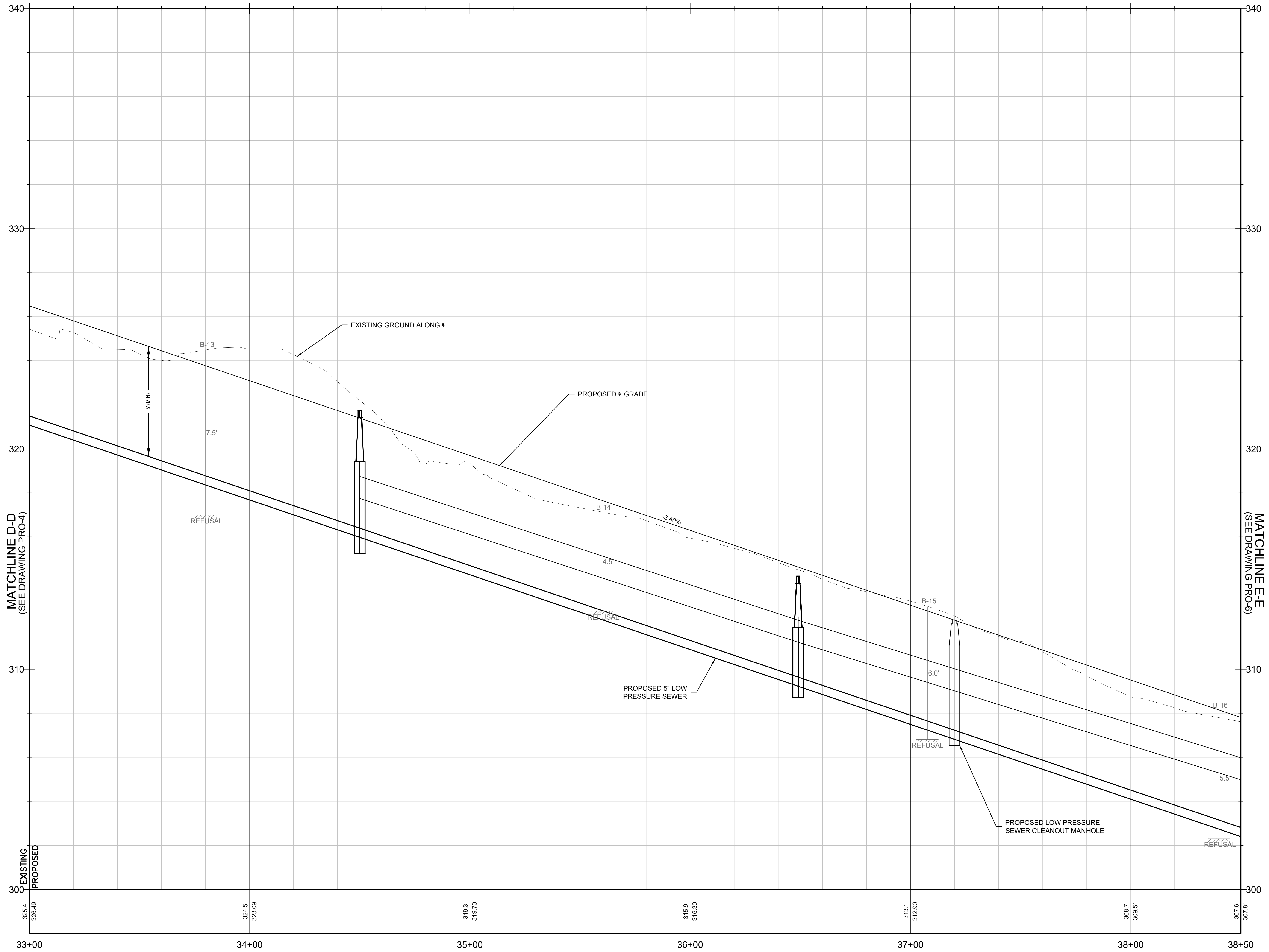
MULTI-USE PATHWAY
PROFILE
STA. 27+50 TO 33+00

Sheet Number:

PRO-04

Rev: 1.6 Date: 04/10/2019

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CENTERLINE TRAIL PROFILE
SCALE: 1"=20' HORZ, 1"=2' VERT

Project: TOWN OF LEDYARD, CT



LEDYARD HIGH SCHOOL
MULTI-USE PATHWAY &
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Drawing Title:

**MULTI-USE PATHWAY
PROFILE**
STA. 33+00 TO 38+50

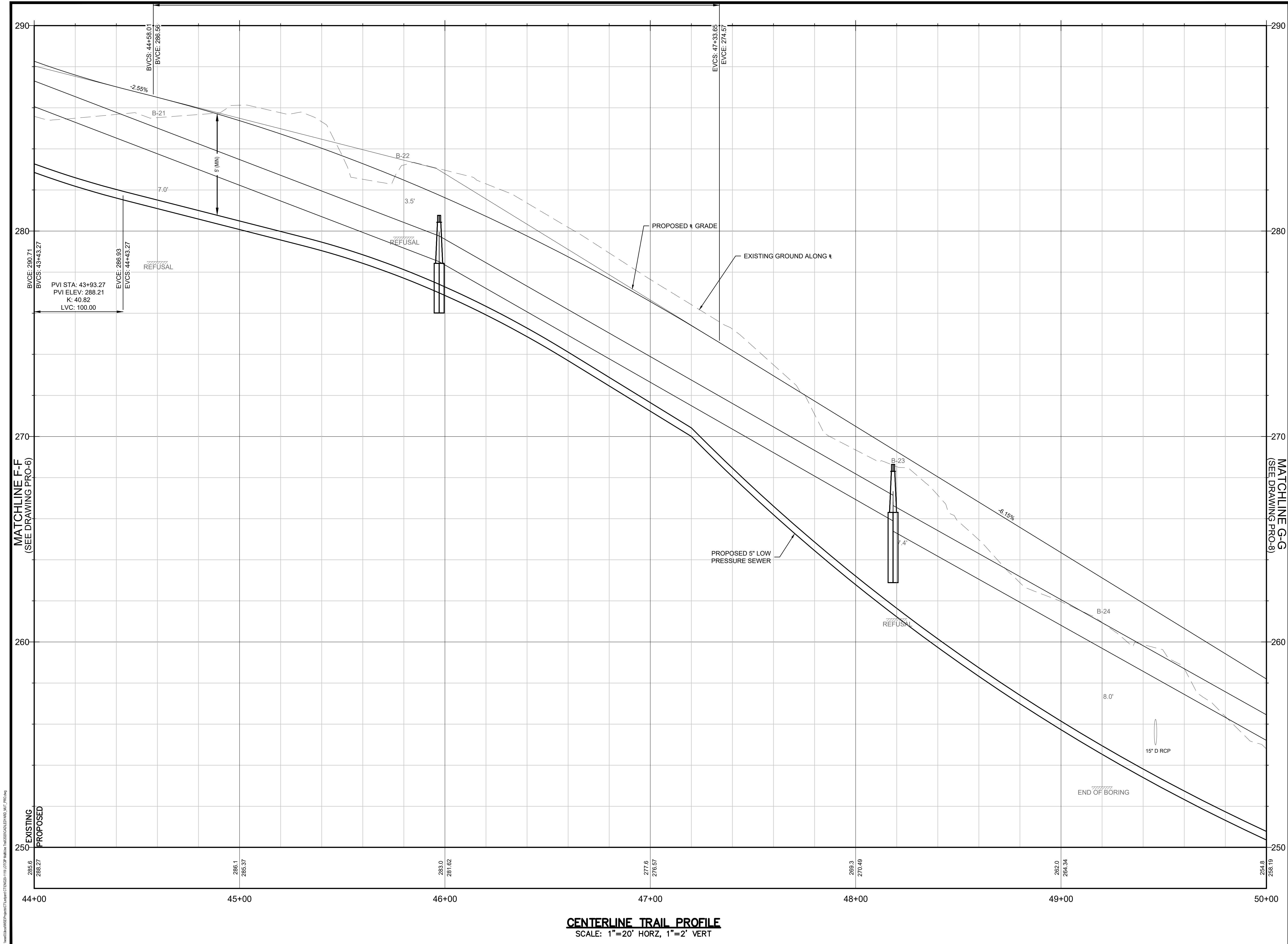
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PRO-05




PRO-06

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Project:
TOWN OF LEDYARD, CT



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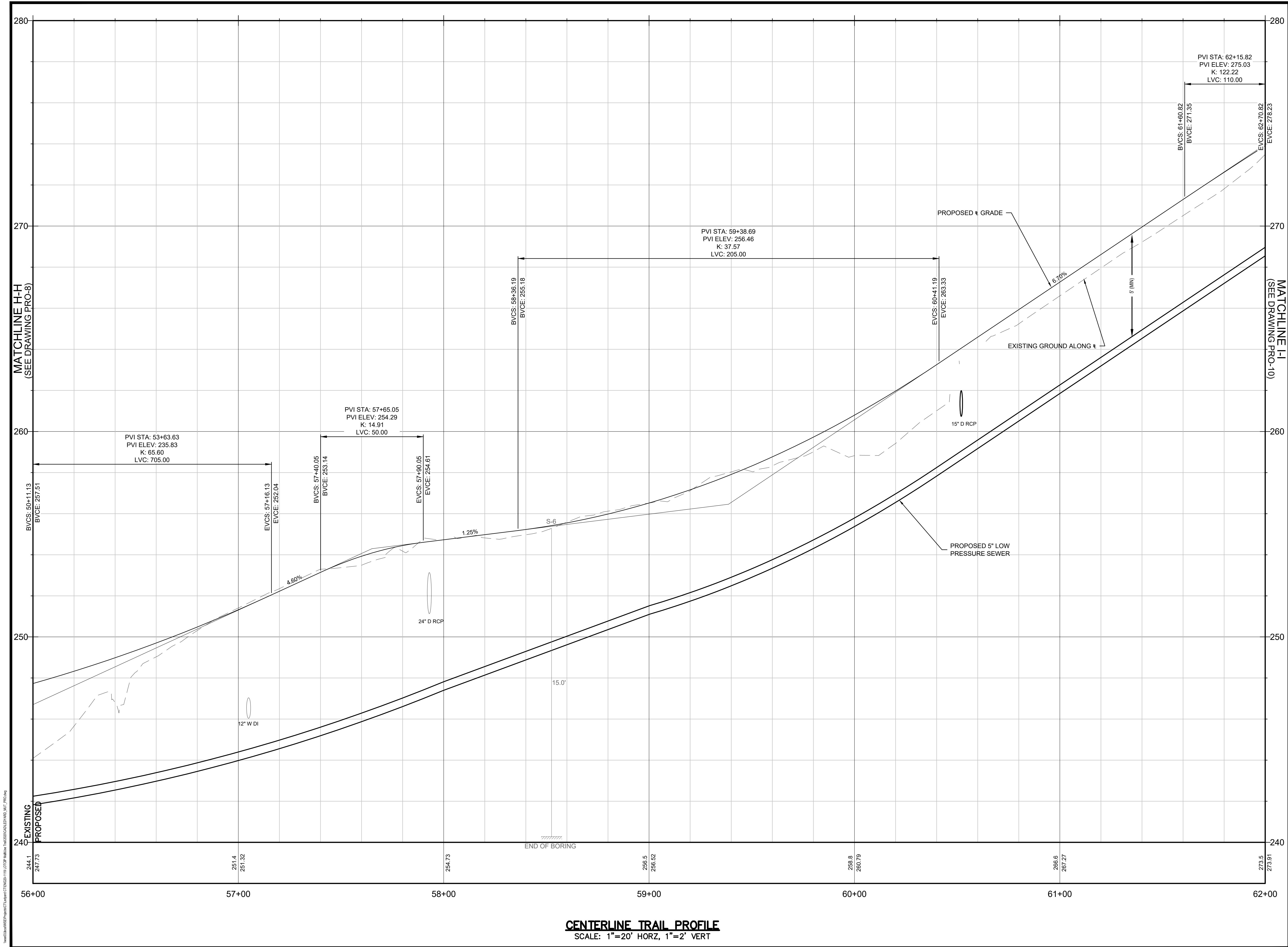
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**MULTI-USE PATHWAY
PROFILE
STA. 44+00 TO 50+00**


Sheet Number:

PRO-07

Rev: 1.6 Date: 04/10/2019



Project:
TOWN OF LEDYARD, CT



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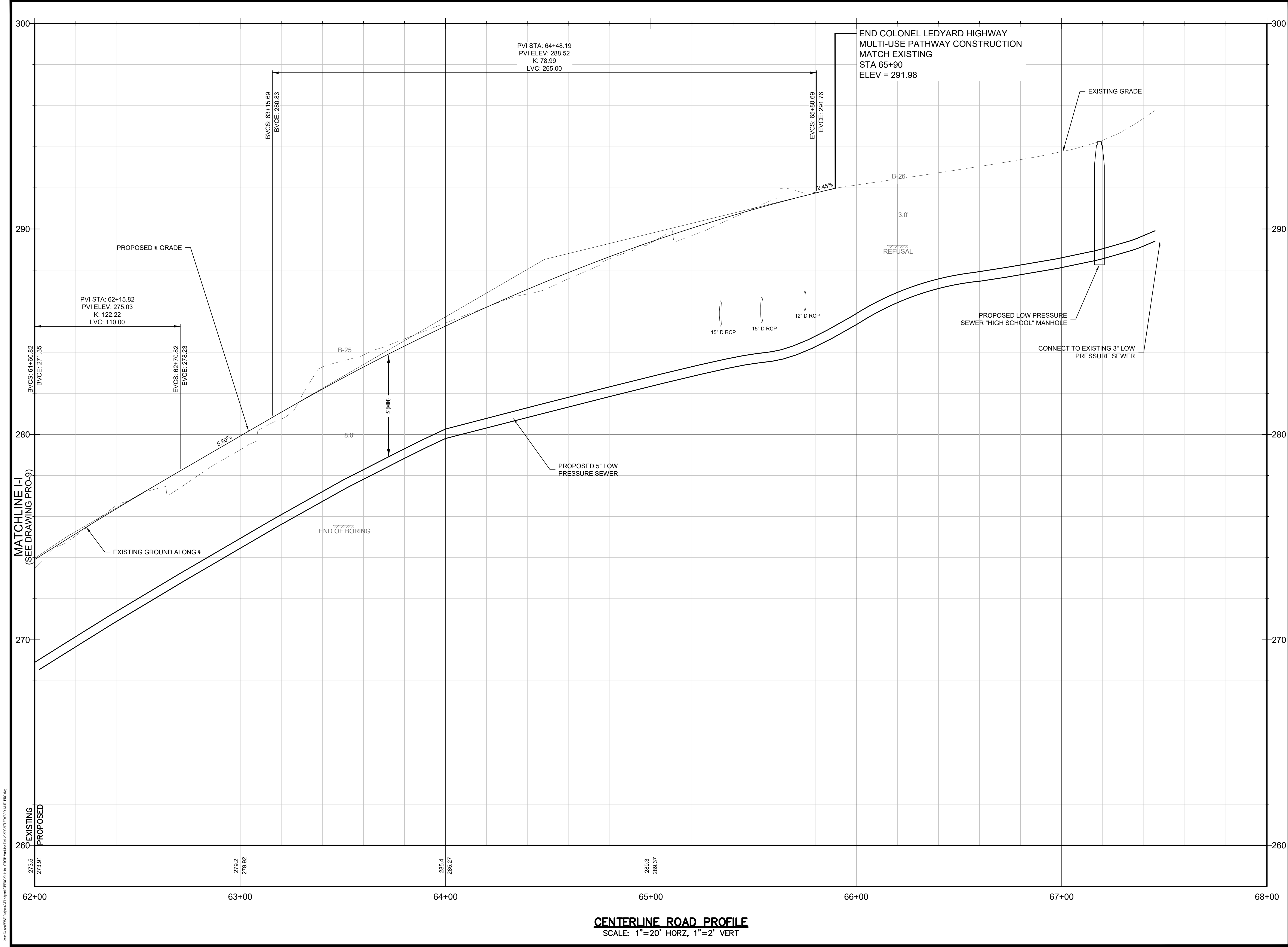
**MULTI-USE PATHWAY
PROFILE**

STA. 56+00 TO 62+00


Sheet Number:

PRO-09

Rev: 1.6 Date: 04/10/2019



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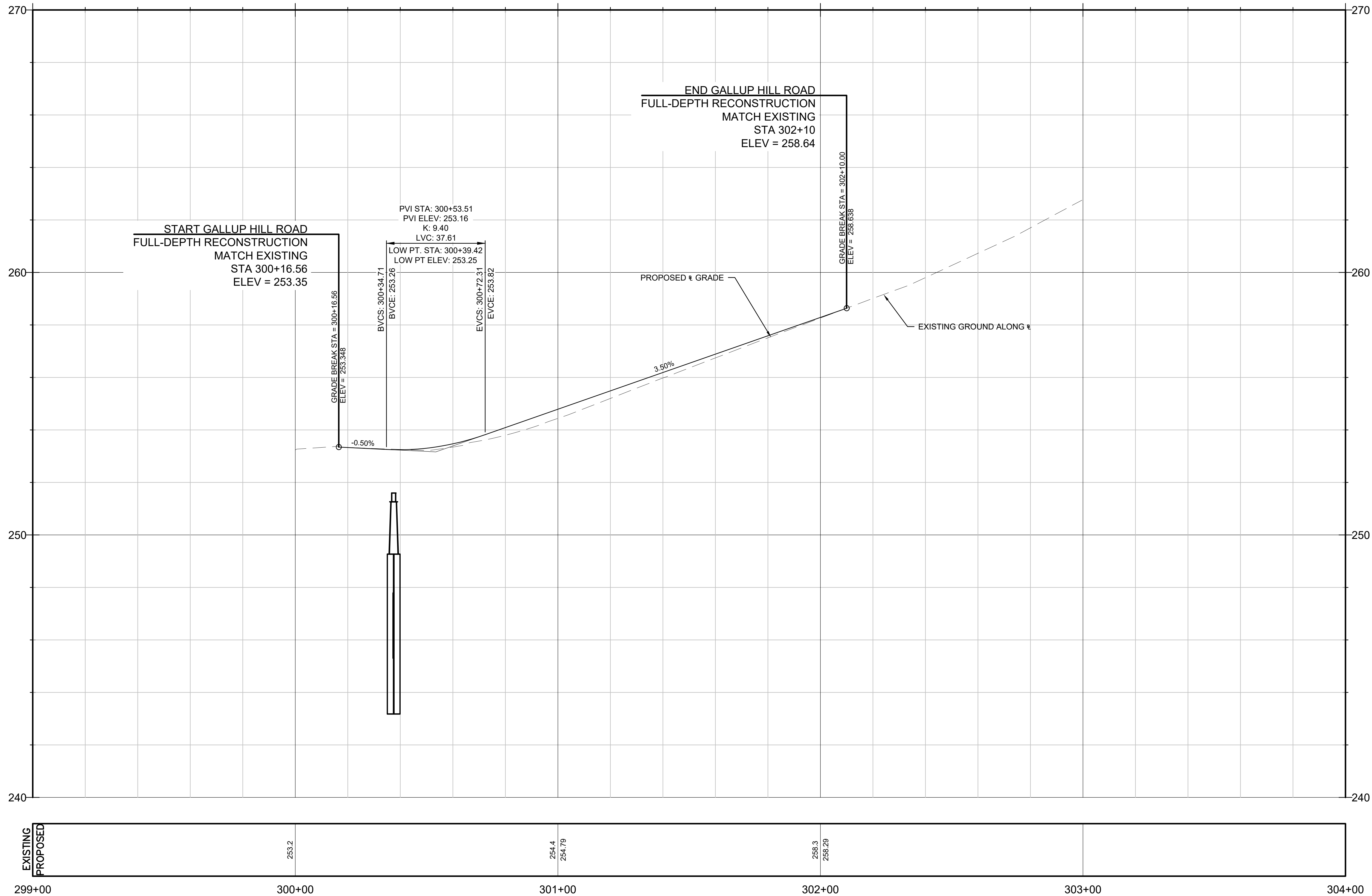
**MULTI-USE PATHWAY
PROFILE
STA. 62+00 TO 65+90**

Sheet Number:

PRO-10

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Rev: 1.6 Date: 04/10/2019



CENTERLINE ROAD PROFILE
SCALE: 1"=20' HORZ, 1"=2' VERT

Project:
TOWN OF LEDYARD, CT



LEDYARD HIGH SCHOOL
MULTI-USE PATHWAY &
SIDEWALK EXTENSION
L171-0001
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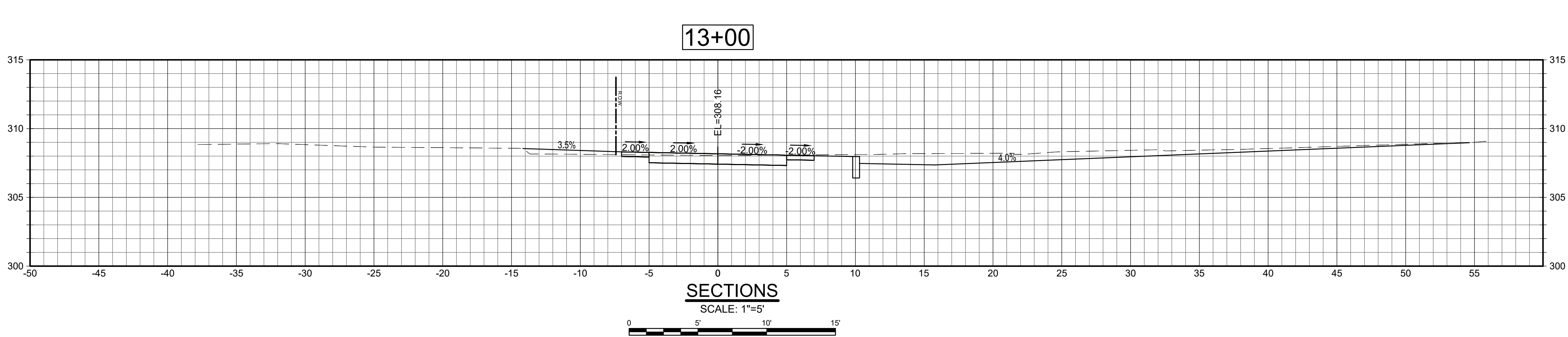
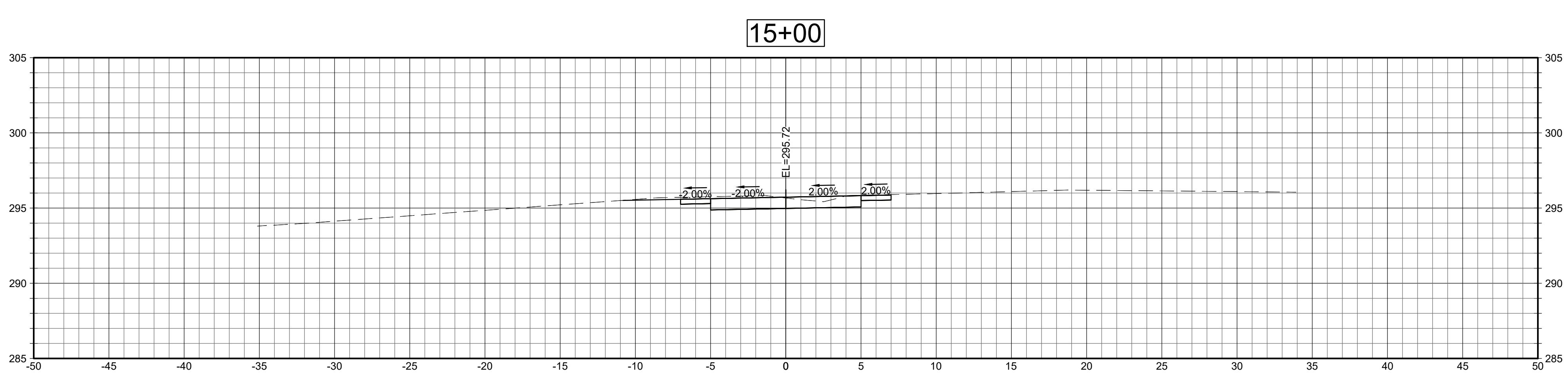
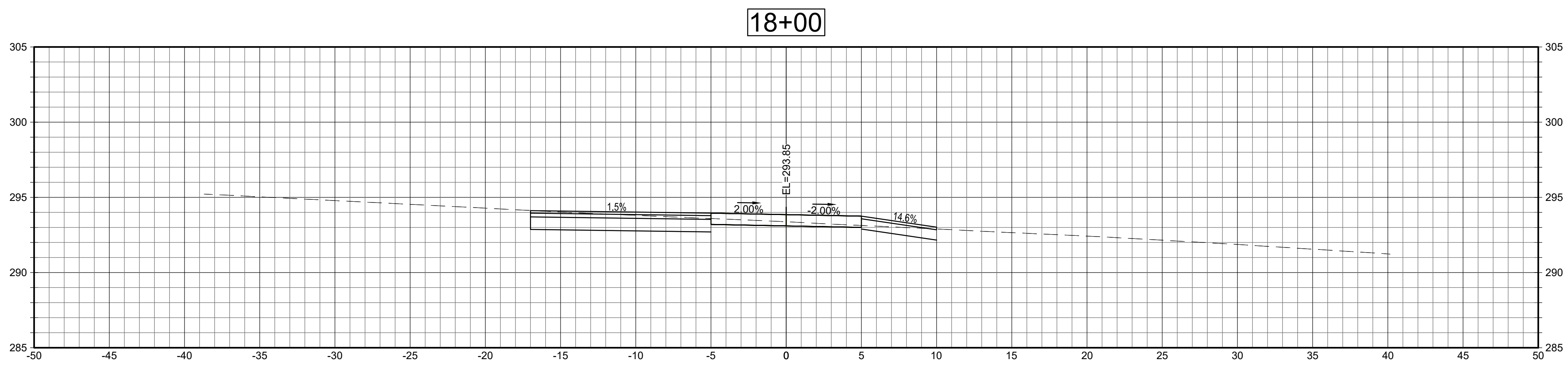
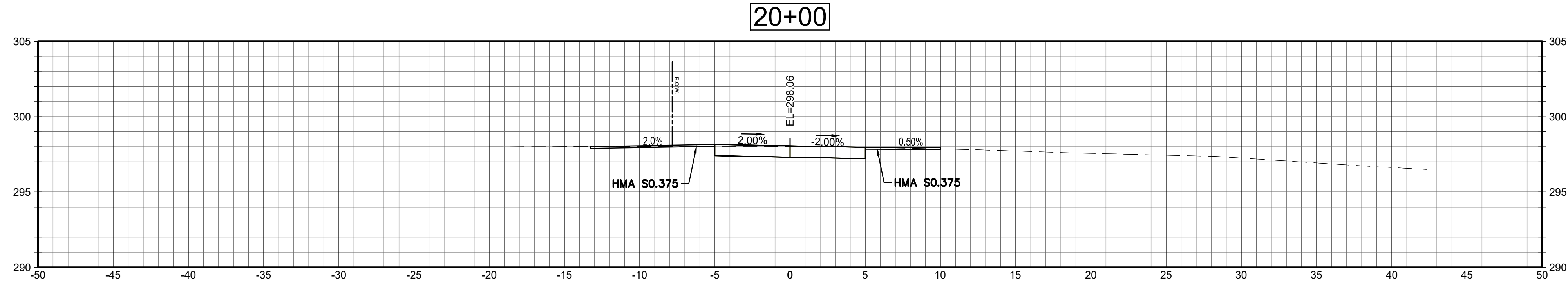
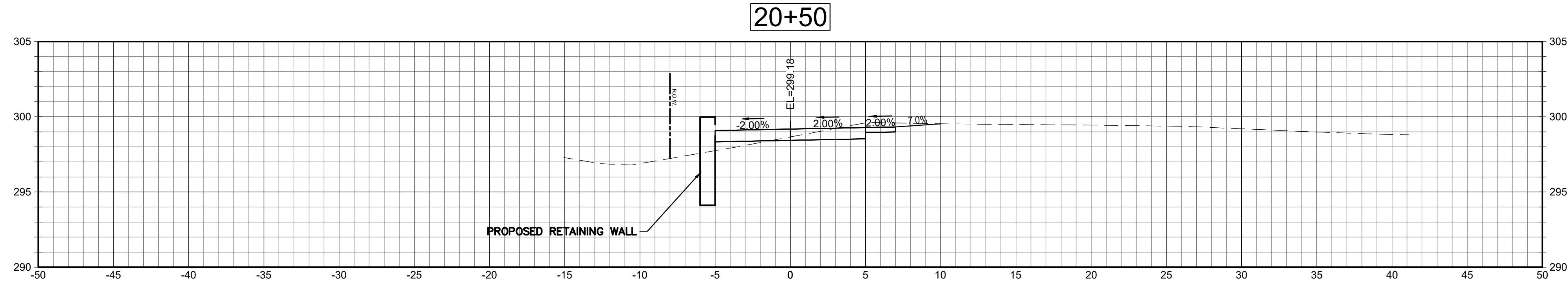
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Approved By: MJJ

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W&S File No.:

Drawing Title:
GALLUP HILL ROAD
PROFILE
STA. 300+00 TO
303+00

Sheet Number:
PRO-11



Project:
TOWN OF LEDYARD, CT



LEDYARD HIGH SCHOOL
MULTI-USE PATHWAY &
SIDEWALK EXTENSION
L171-0001

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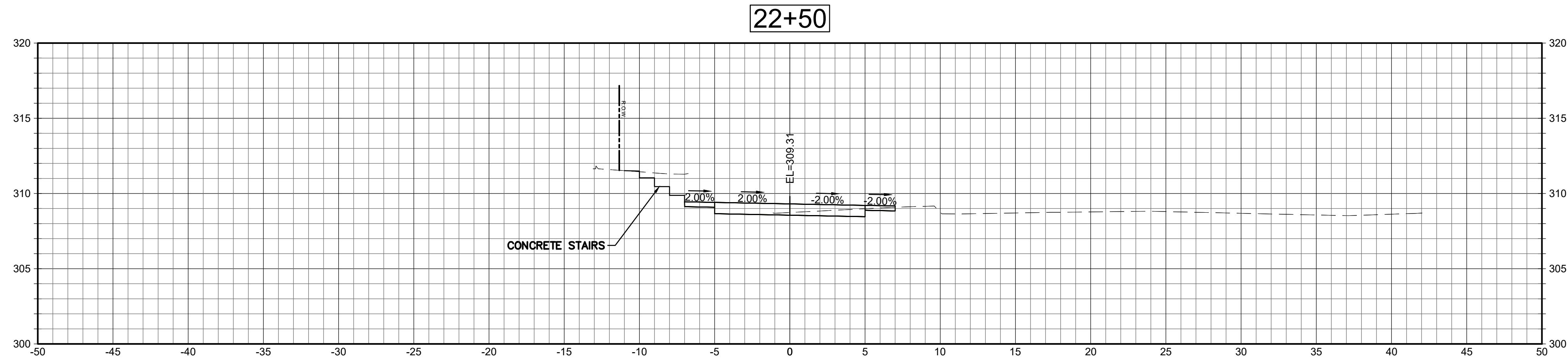
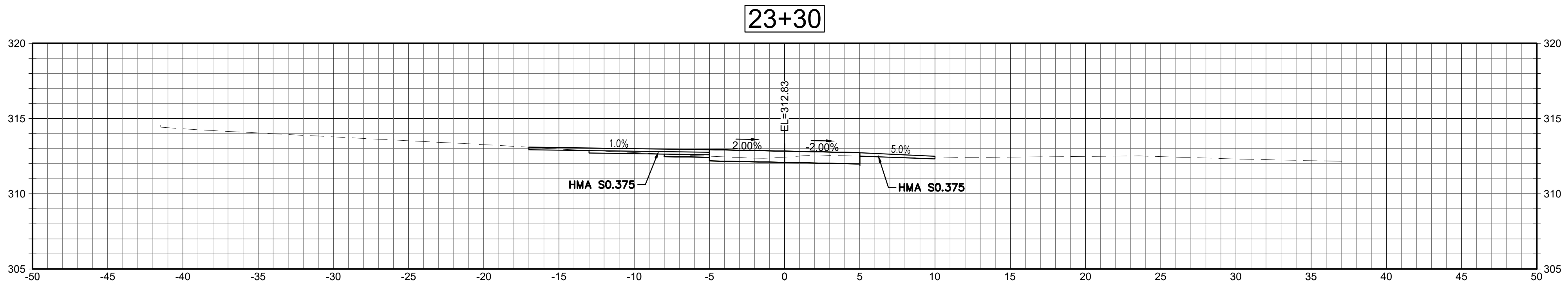
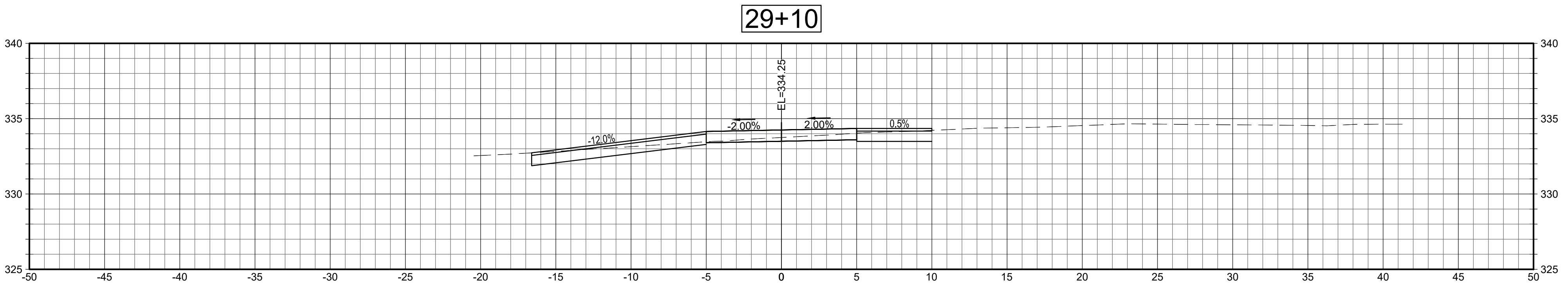
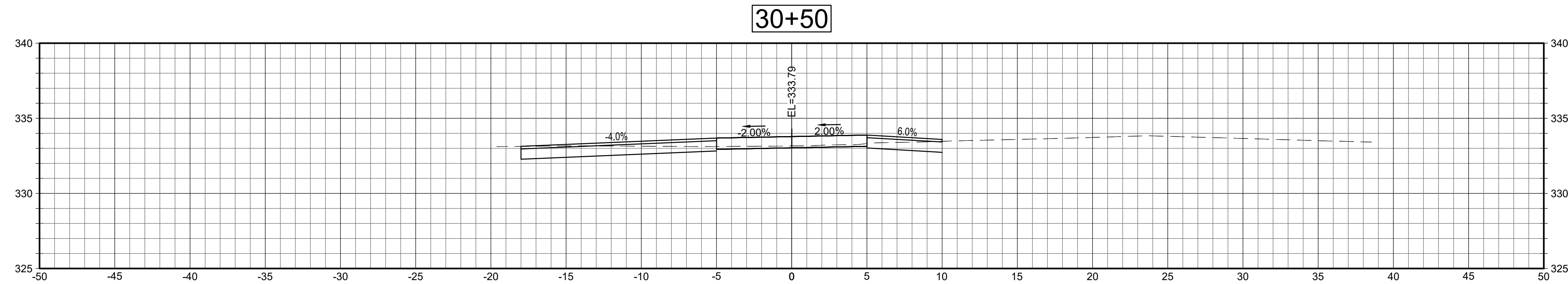
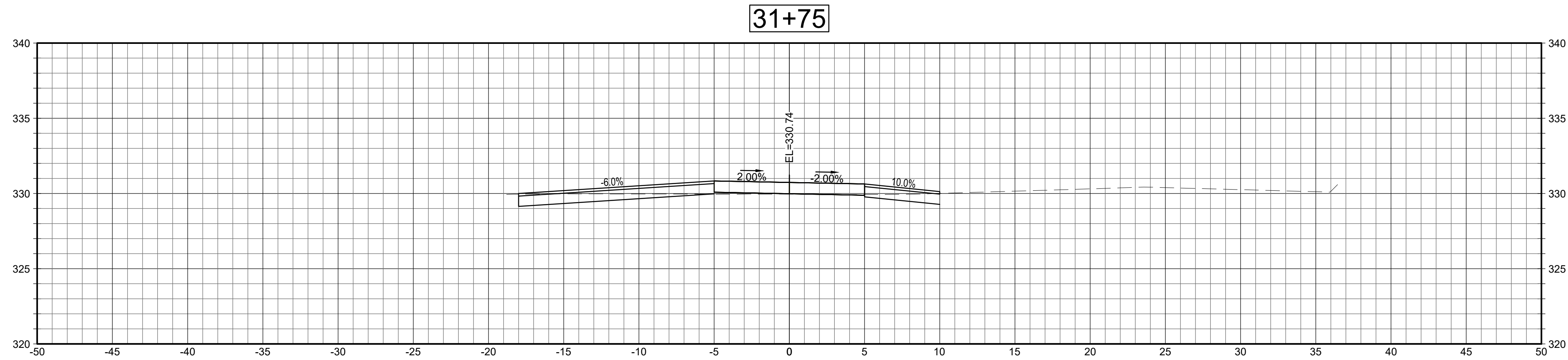
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**CRITICAL CROSS
SECTIONS**

Sheet Number:

XSC-1

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SECTIONS

SCALE: 1"=5'



Project:
TOWN OF LEDYARD, CT



LEDYARD HIGH SCHOOL
MULTI-USE PATHWAY &
SIDEWALK EXTENSION
L171-0001

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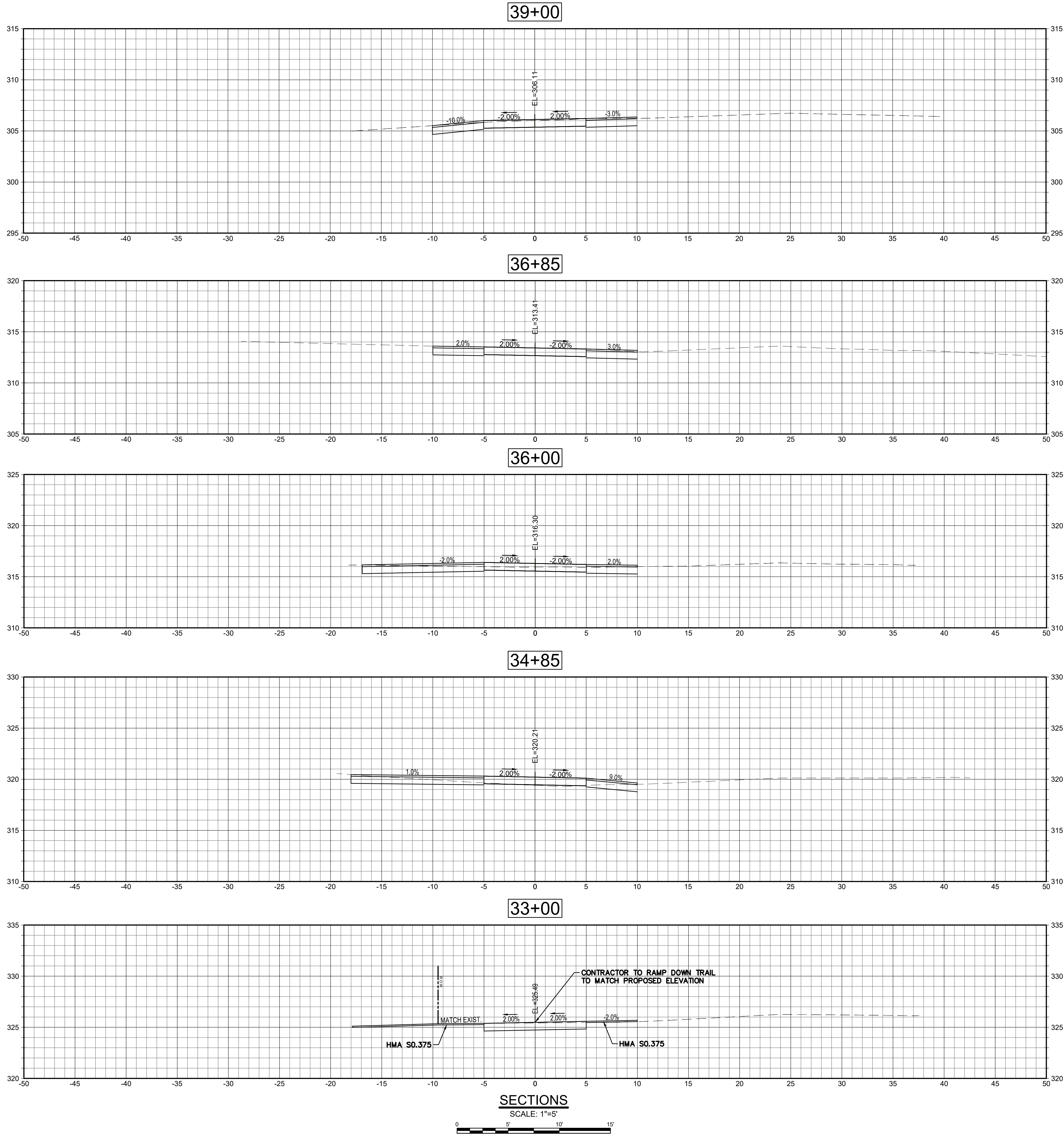
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CRITICAL CROSS
SECTIONS

Sheet Number:

XSC-2



Project:
TOWN OF LEDYARD, CT



LEDYARD HIGH SCHOOL
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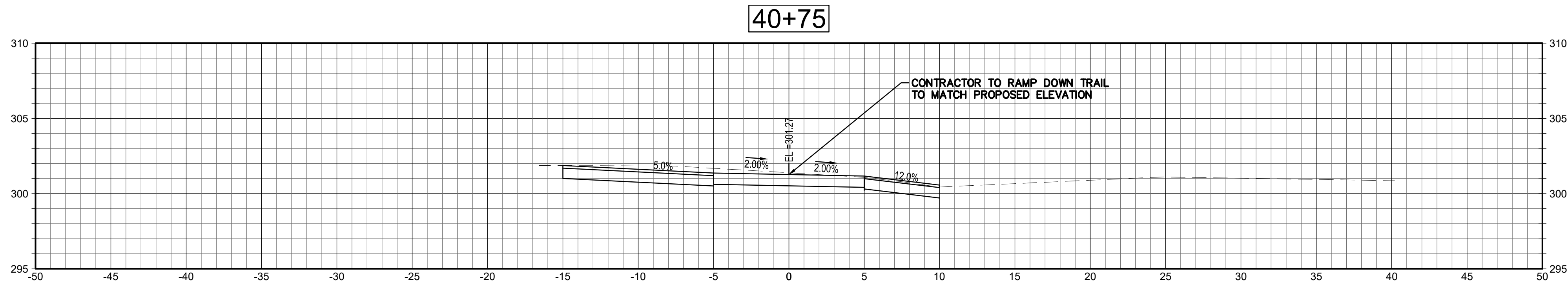
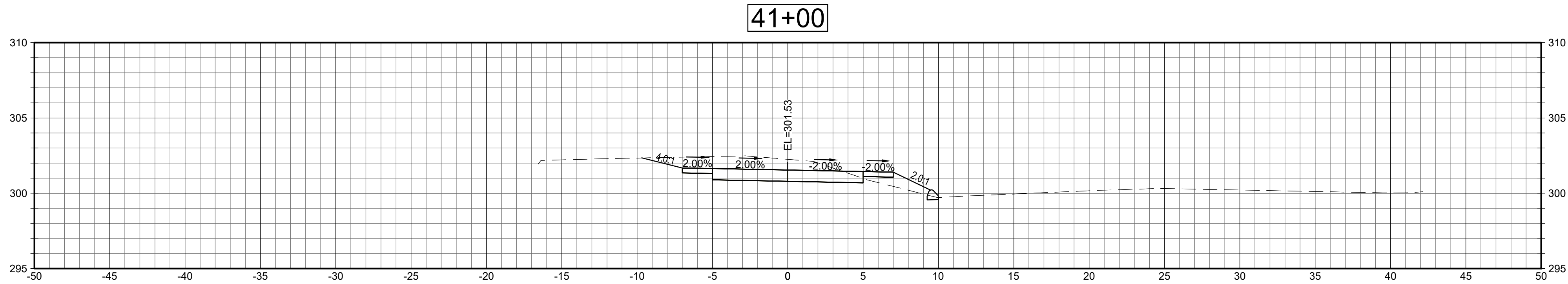
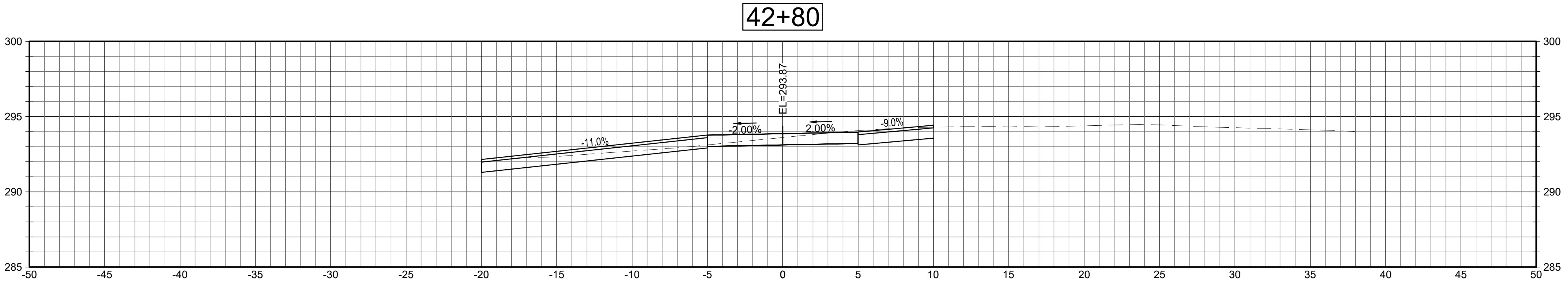
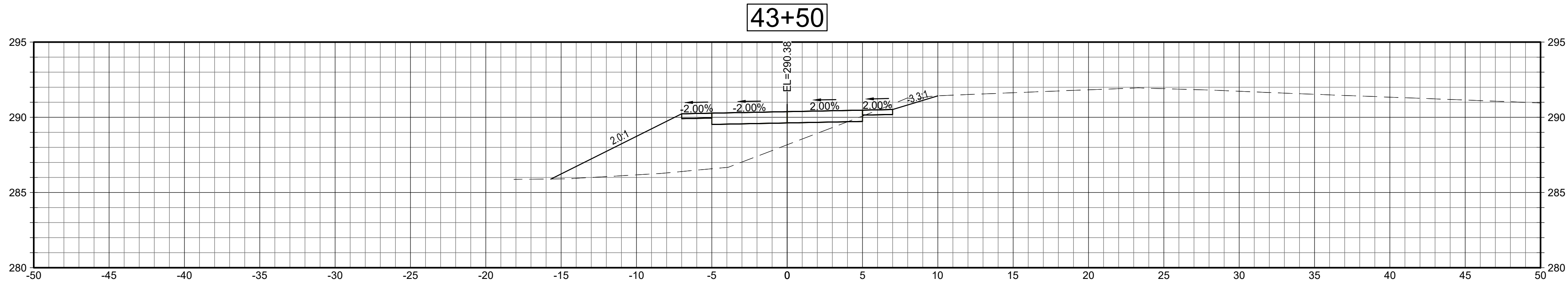
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Sheet Number:

XSC-3

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Project:
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L171-0001

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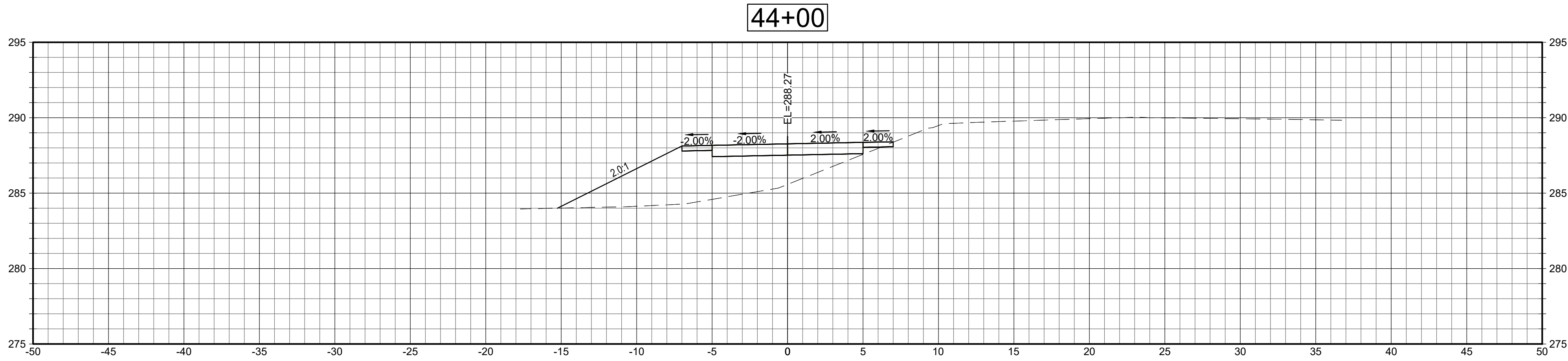
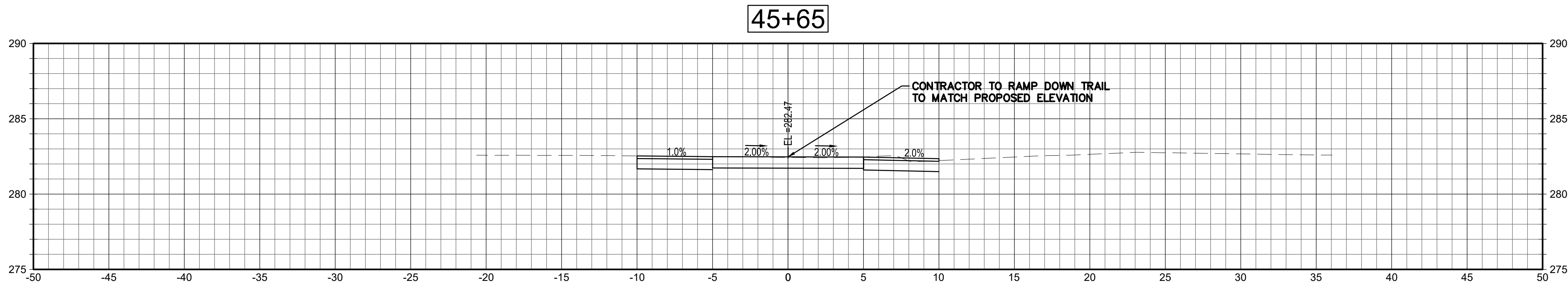
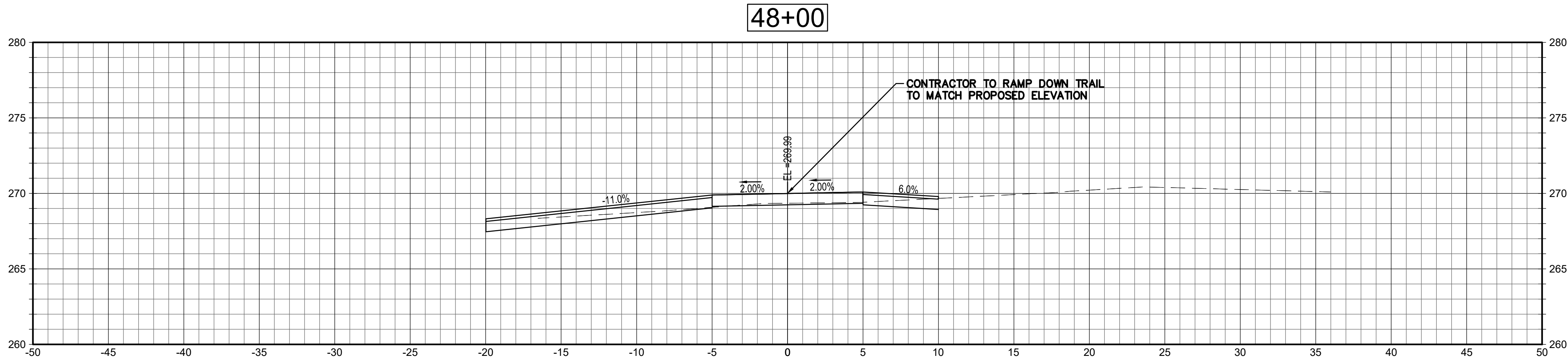
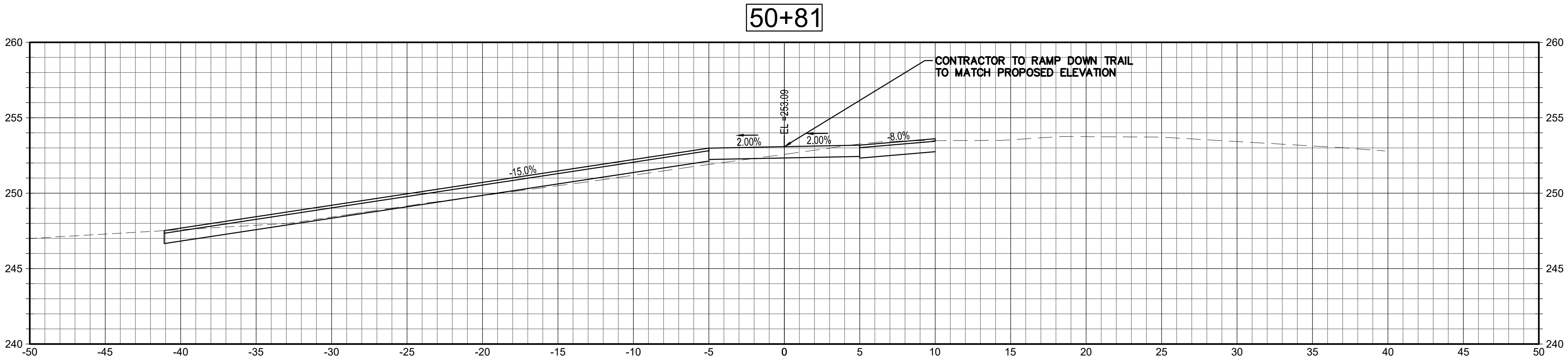
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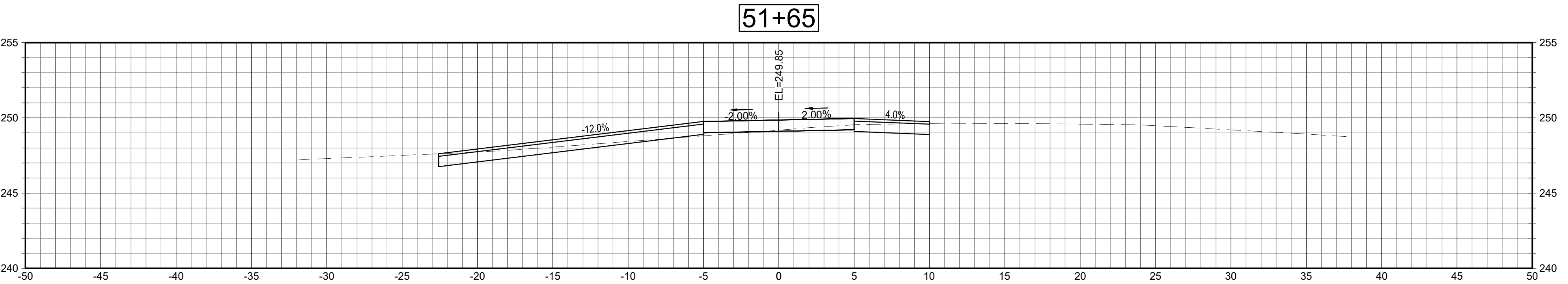
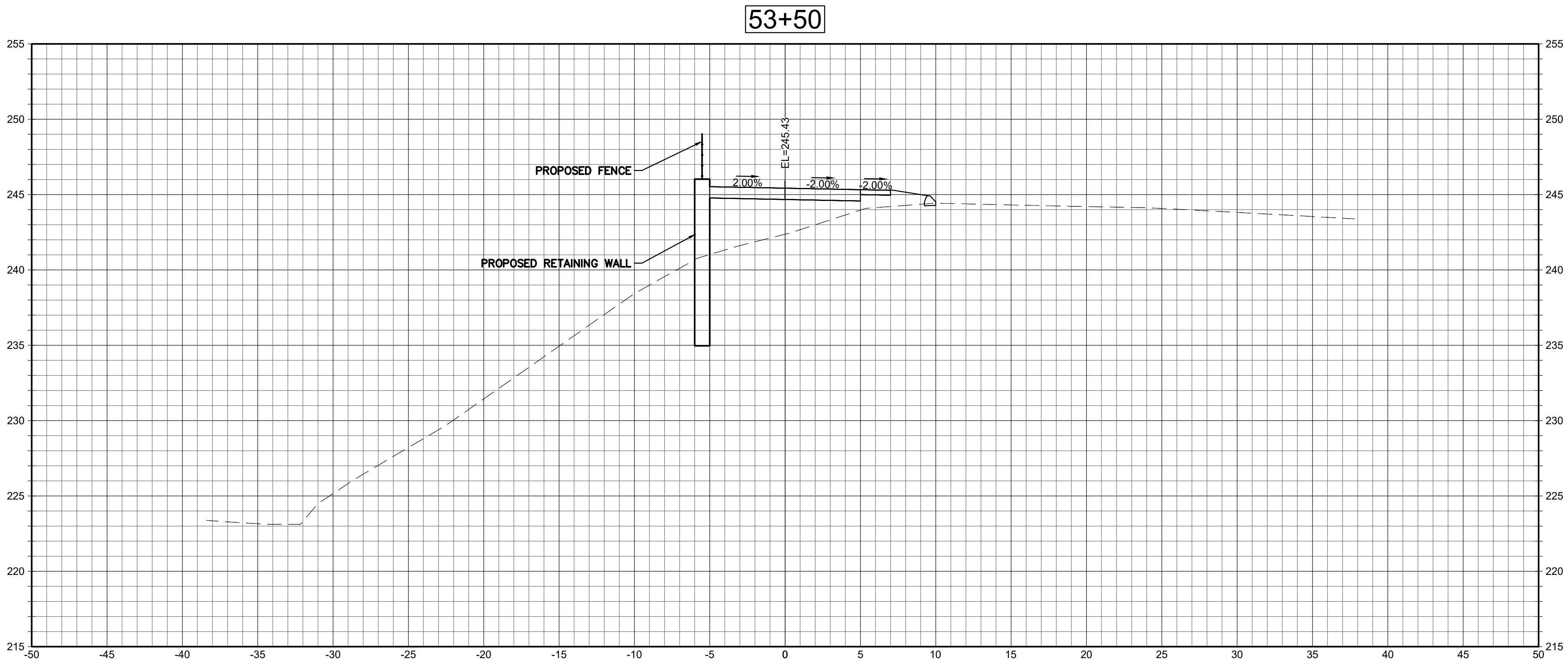
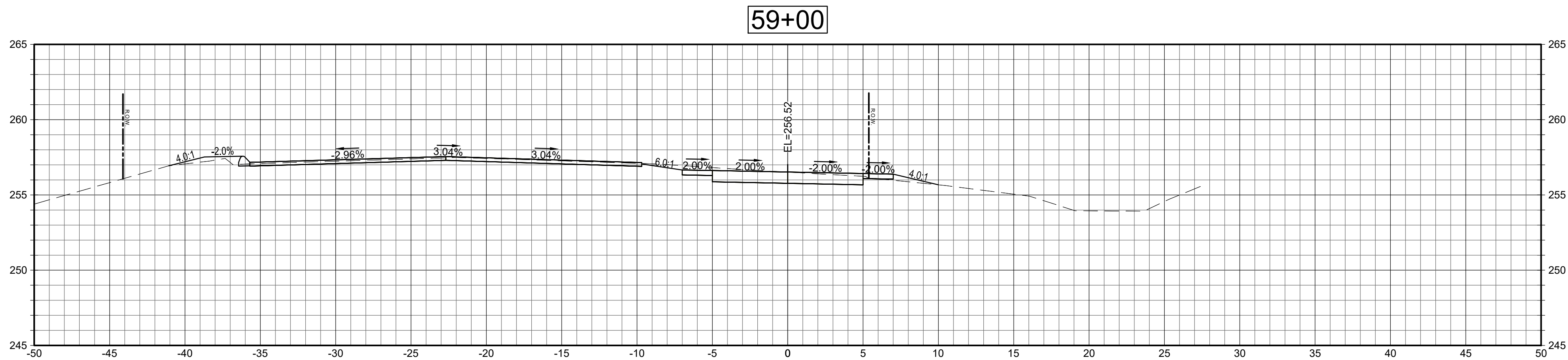
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CRITICAL CROSS
SECTIONS

Sheet Number:

XSC-5

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Project:
TOWN OF LEDYARD, CT



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SECTIONS

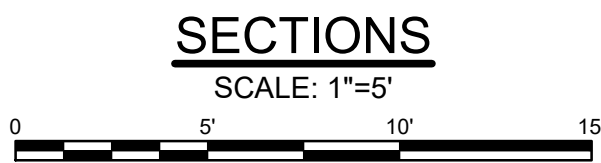
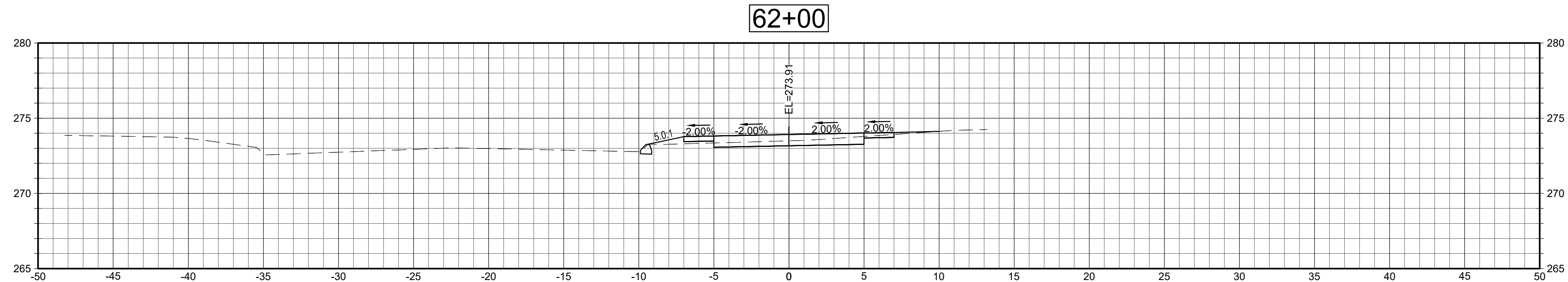
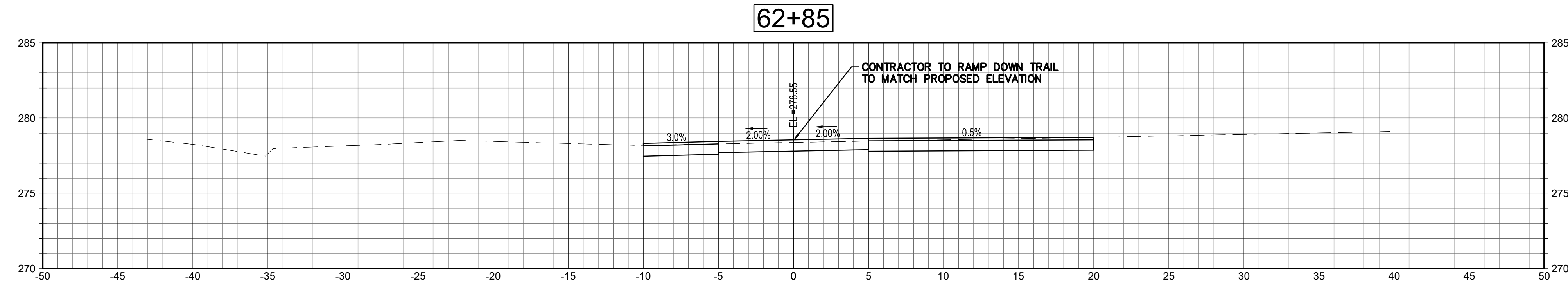
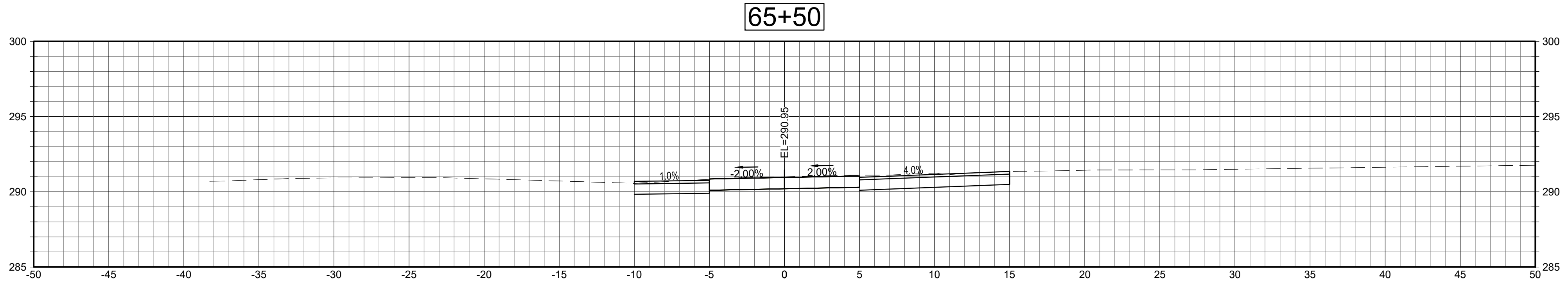
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XSC-6

Rev: 1.6 Date: 04/10/2019

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Project:
TOWN OF LEDYARD, CT



LEDYARD HIGH SCHOOL
MULT-USE PATHWAY &
SIDEWALK EXTENSION
L171-0001

741 COLONEL LEDYARD HIGHWAY
LEDYARD, CT 06339

Weston & Sampson

Weston & Sampson Engineers, Inc.
712 Brook Street, Suite 103
Rocky Hill, CT 06067
978.532.1900 800.SAMPSON
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Revisions:

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Approved By: MJJ

W&S Project No.: ENG20-1119

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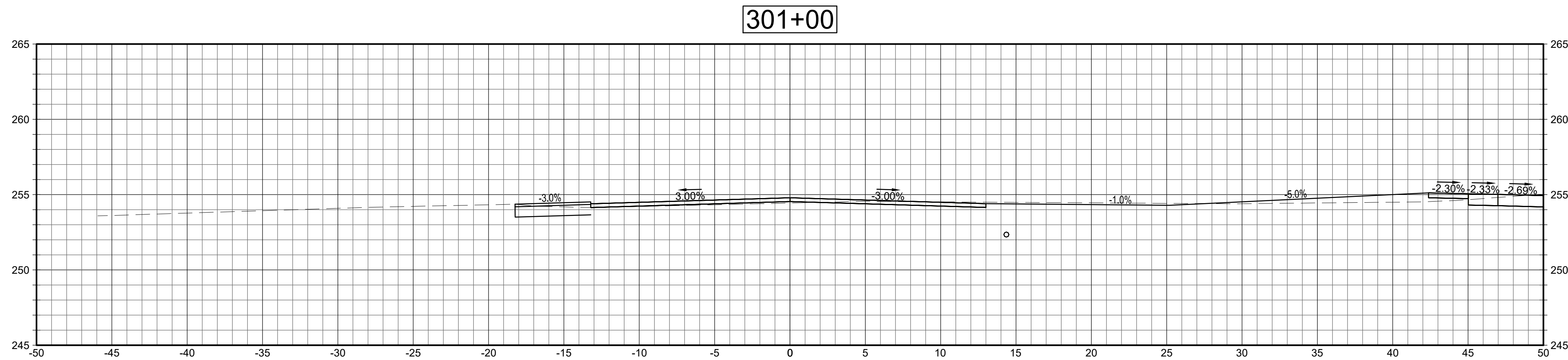
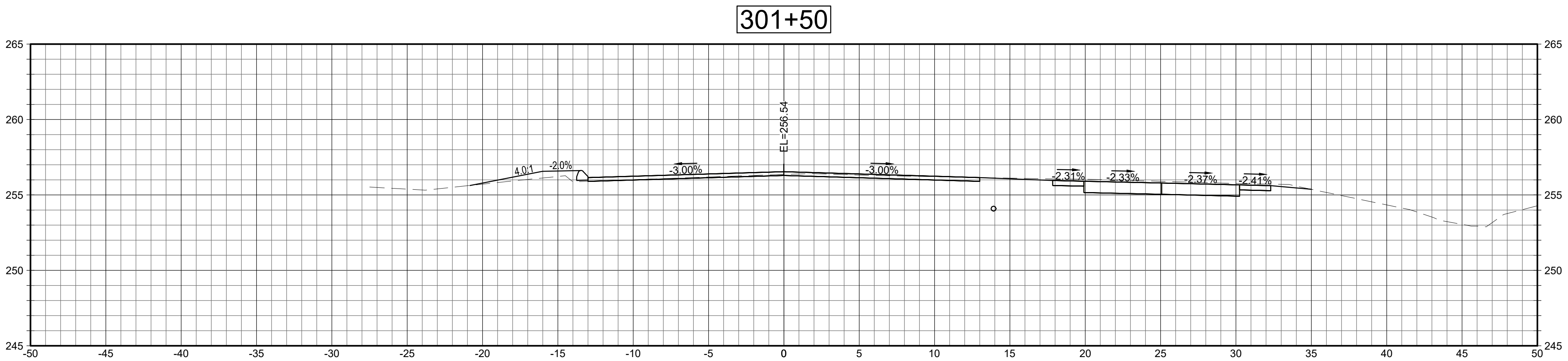
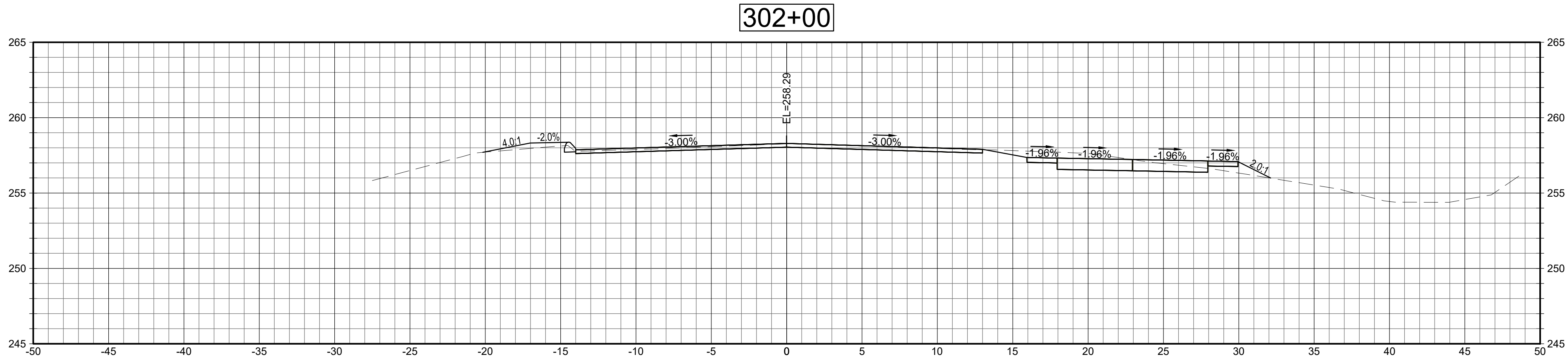
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CRITICAL CROSS
SECTIONS

Sheet Number:

XSC-7

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Project:
TOWN OF LEDYARD, CT



LEDYARD HIGH SCHOOL
MULTI-USE PATHWAY &
SIDEWALK EXTENSION
L171-0001

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Approved By: MJJ

W&S Project No.: ENG20-1119

W&S File No.:

Drawing Title:

CRITICAL CROSS
SECTIONS

Sheet Number:

XSC-8

GENERAL NOTES:
THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS AND SPECIFICATIONS. REFER TO CONTRACT DRAWINGS FOR LOCATION, DIMENSIONS, AND DETAILS, OTHER PROJECT REQUIREMENTS NOT SHOWN ON STRUCTURAL DRAWINGS.

SPECIFICATIONS:
CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 818 (2020), SUPPLEMENTAL SPECIFICATIONS DATED JANUARY 2021, AND SPECIAL PROVISIONS.

MATERIAL STRENGTHS:
CONCRETE:
CLASS PCC0446Z.....f_c = 4,000 PSI

FUTURE PAVING ALLOWANCE:
NONE

DIMENSIONS:
WHEN DECIMAL DIMENSIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZEROS.

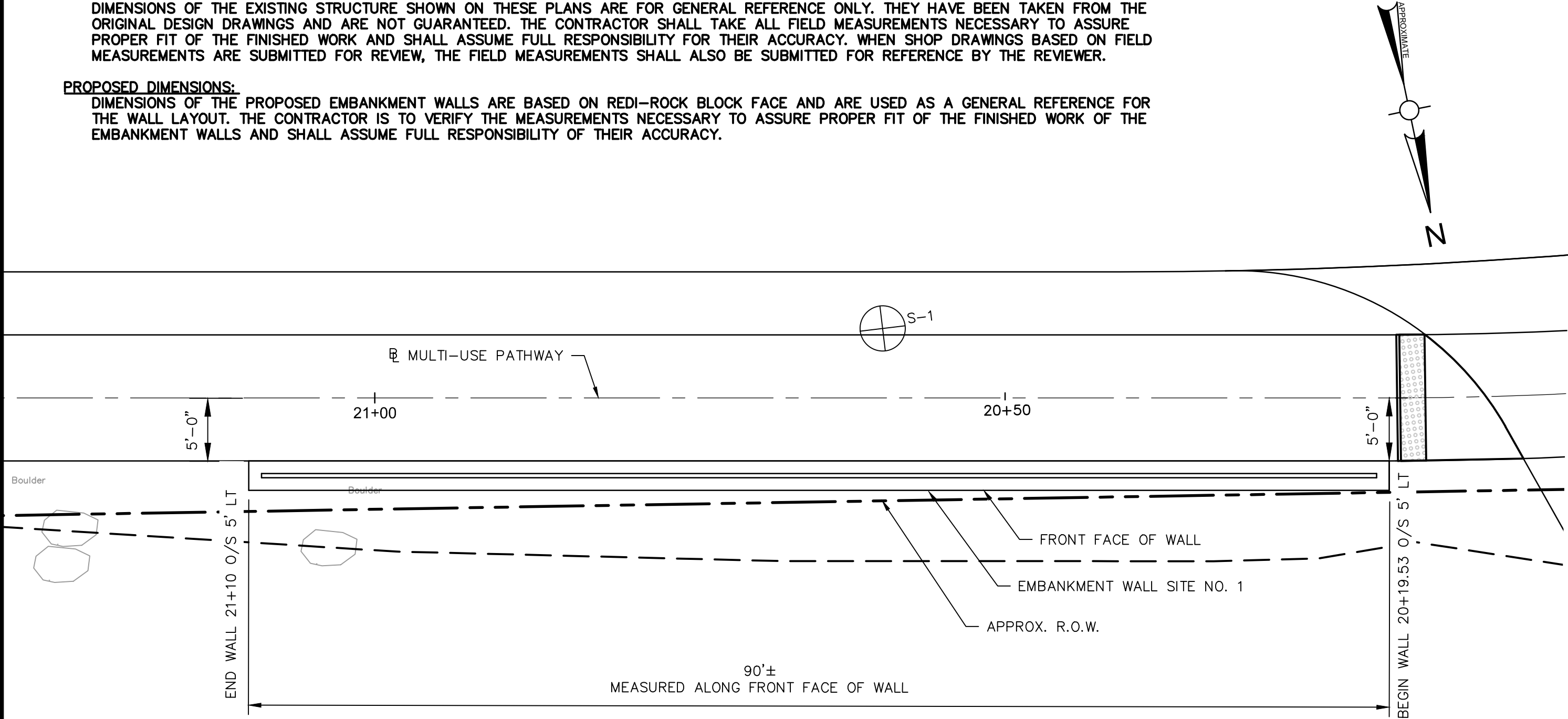
EXISTING DIMENSIONS:
DIMENSIONS OF THE EXISTING STRUCTURE SHOWN ON THESE PLANS ARE FOR GENERAL REFERENCE ONLY. THEY HAVE BEEN TAKEN FROM THE ORIGINAL DESIGN DRAWINGS AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY TO ASSURE PROPER FIT OF THE FINISHED WORK AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY. WHEN SHOP DRAWINGS BASED ON FIELD MEASUREMENTS ARE SUBMITTED FOR REVIEW, THE FIELD MEASUREMENTS SHALL ALSO BE SUBMITTED FOR REFERENCE BY THE REVIEWER.

PROPOSED DIMENSIONS:
DIMENSIONS OF THE PROPOSED EMBANKMENT WALLS ARE BASED ON REDI-ROCK BLOCK FACE AND ARE USED AS A GENERAL REFERENCE FOR THE WALL LAYOUT. THE CONTRACTOR IS TO VERIFY THE MEASUREMENTS NECESSARY TO ASSURE PROPER FIT OF THE FINISHED WORK OF THE EMBANKMENT WALLS AND SHALL ASSUME FULL RESPONSIBILITY OF THEIR ACCURACY.

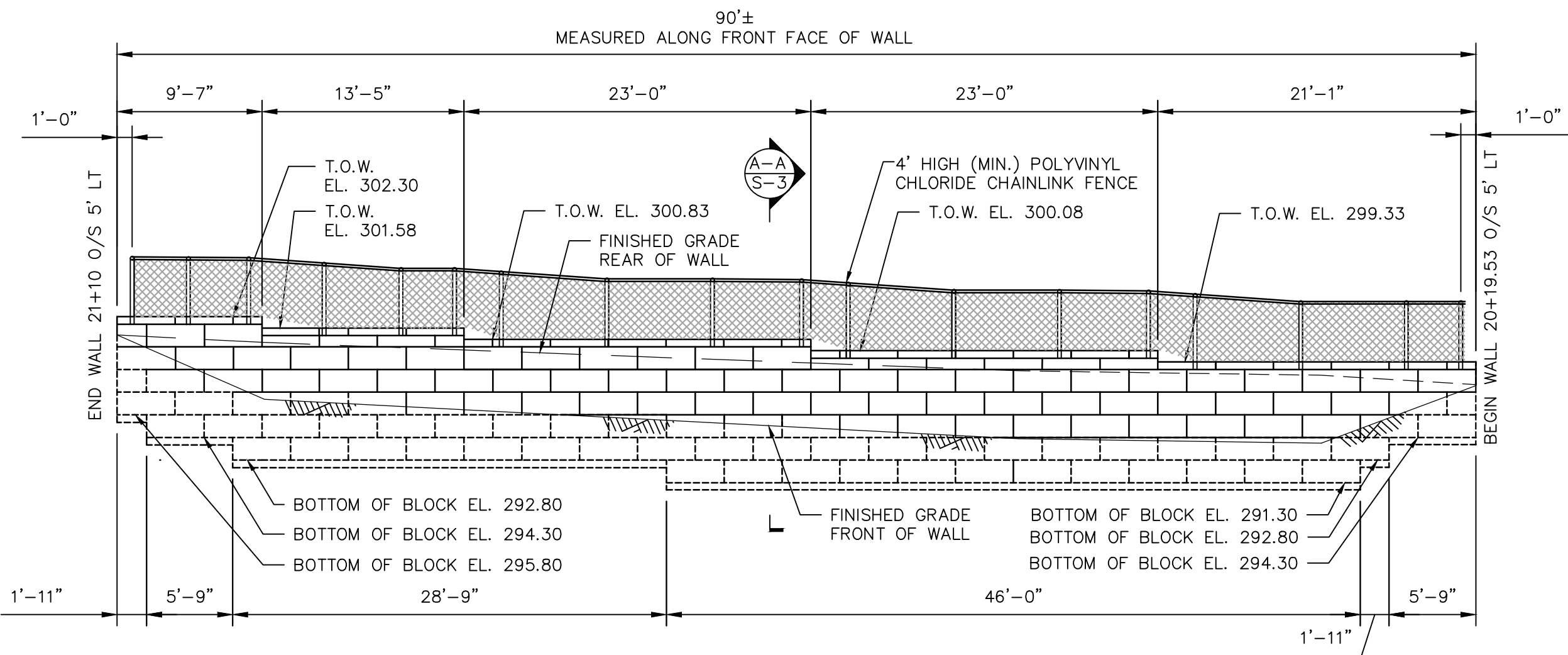
CONCRETE DISTRIBUTION:

THE FOLLOWING PAY ITEMS (AS PART OF THE LUMP SUM COST) AND CONCRETE CLASSES ARE REQUIRED FOR EMBANKMENT WALL COMPONENTS:

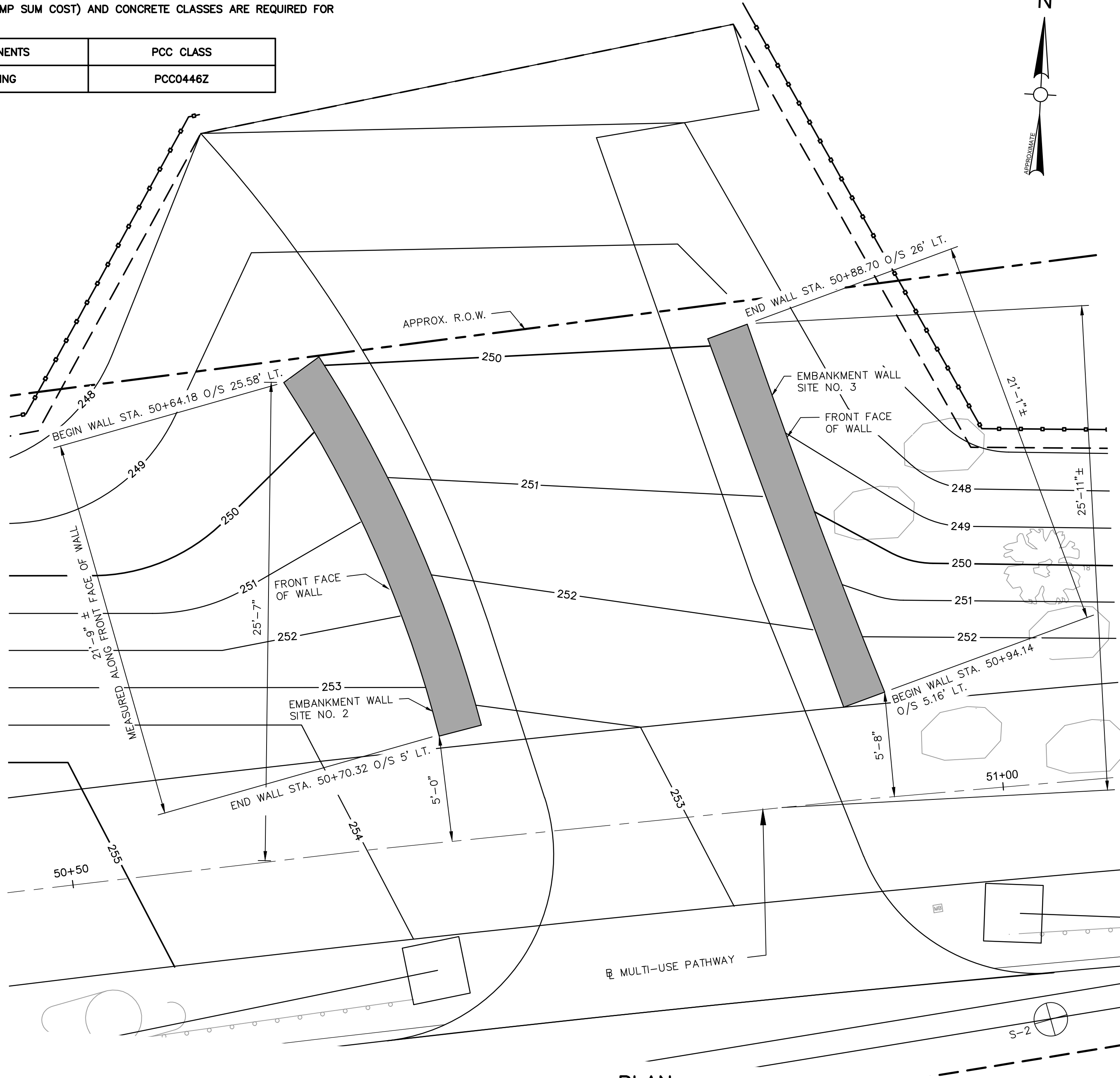
ITEM	COMPONENTS	PCC CLASS
LEVELING PAD	FOOTING	PCC0446Z



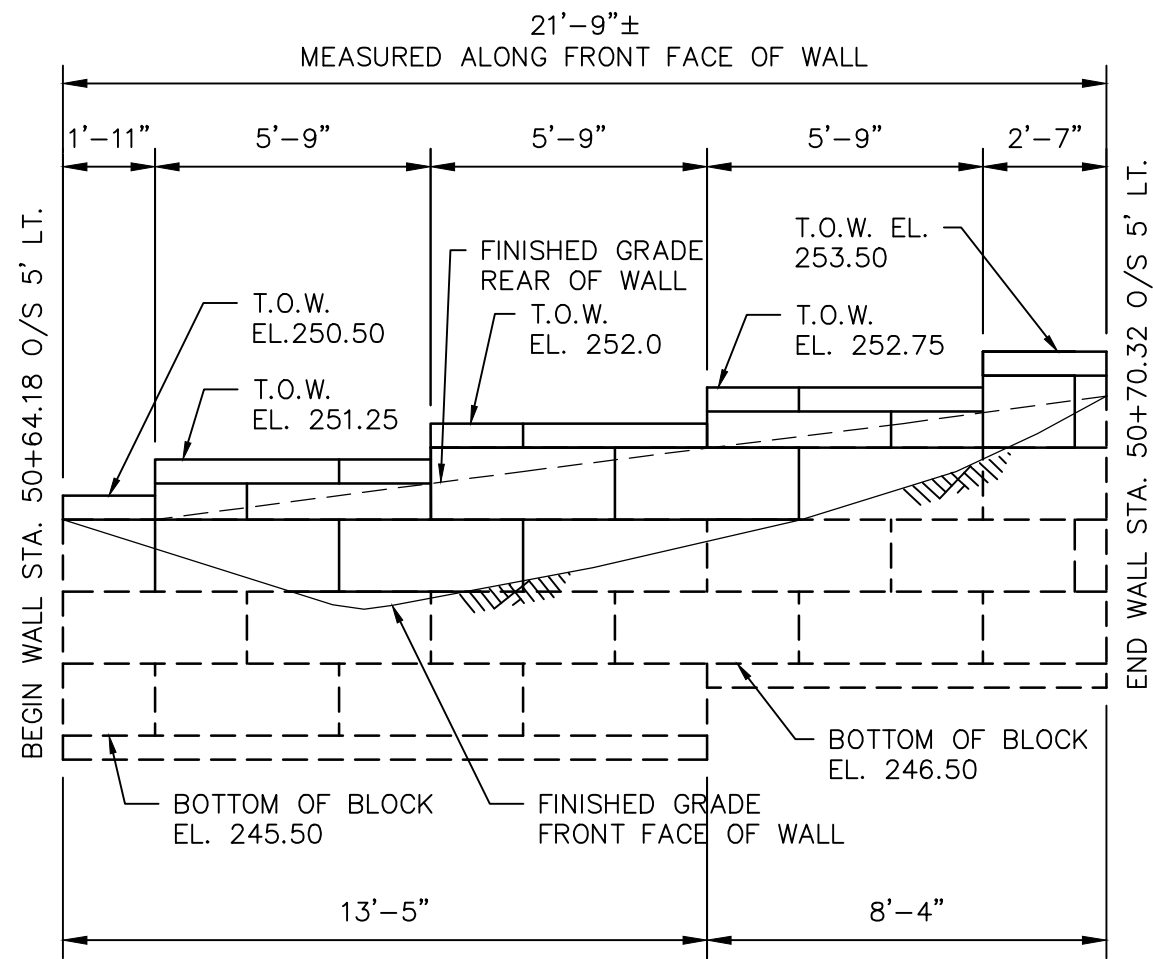
PLAN
SCALE 1/8"=1'-0"



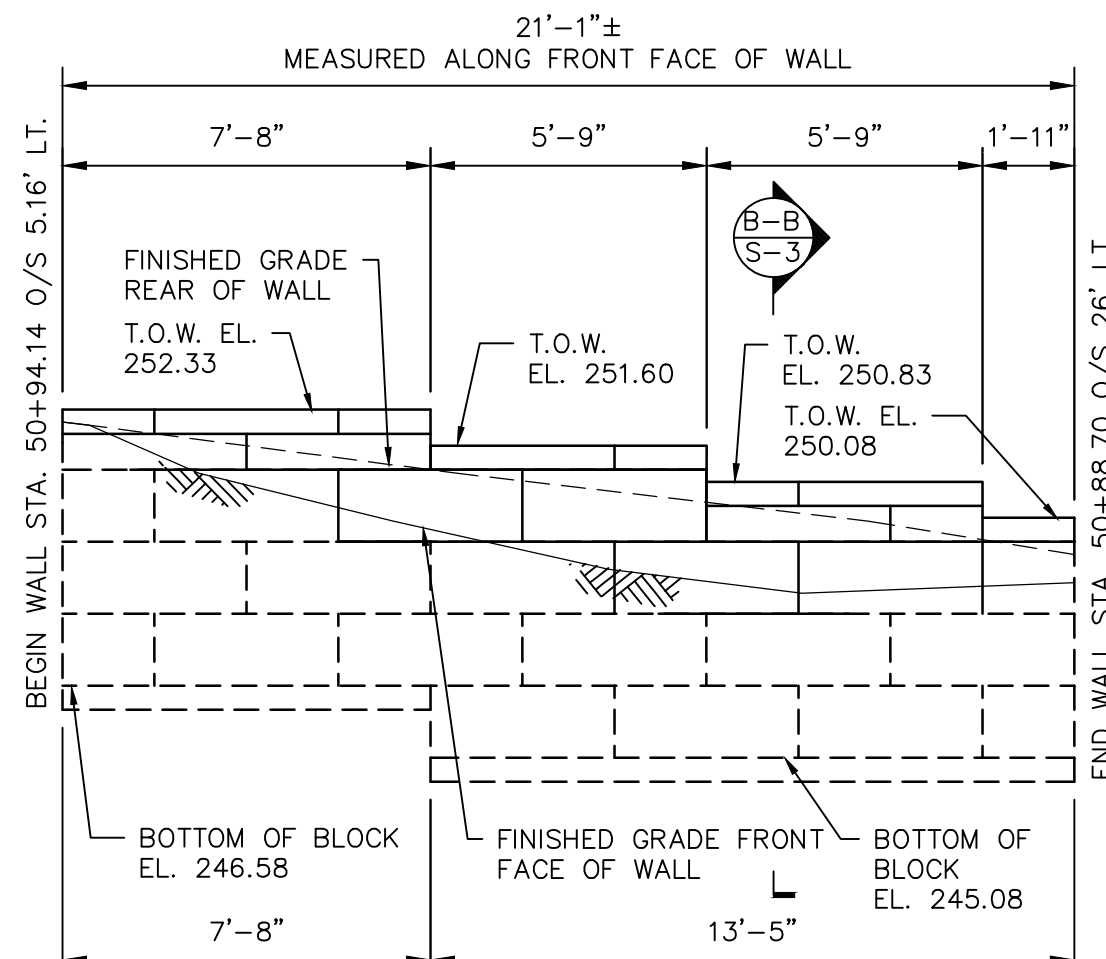
ELEVATION – SITE NO. 1
SCALE 1/8"=1'-0"



PLAN
SCALE 1/4"=1'-0"



ELEVATION – SITE NO. 2
SCALE 1/4"=1'-0"



ELEVATION – SITE NO. 3
SCALE 1/4"=1'-0"

Project:
TOWN OF LEDYARD, CT



LEDYARD HIGH SCHOOL
MULTI-USE PATHWAY &
SIDEWALK EXTENSION
741 COLONEL LEDYARD HIGHWAY
LEDYARD, CT 06339

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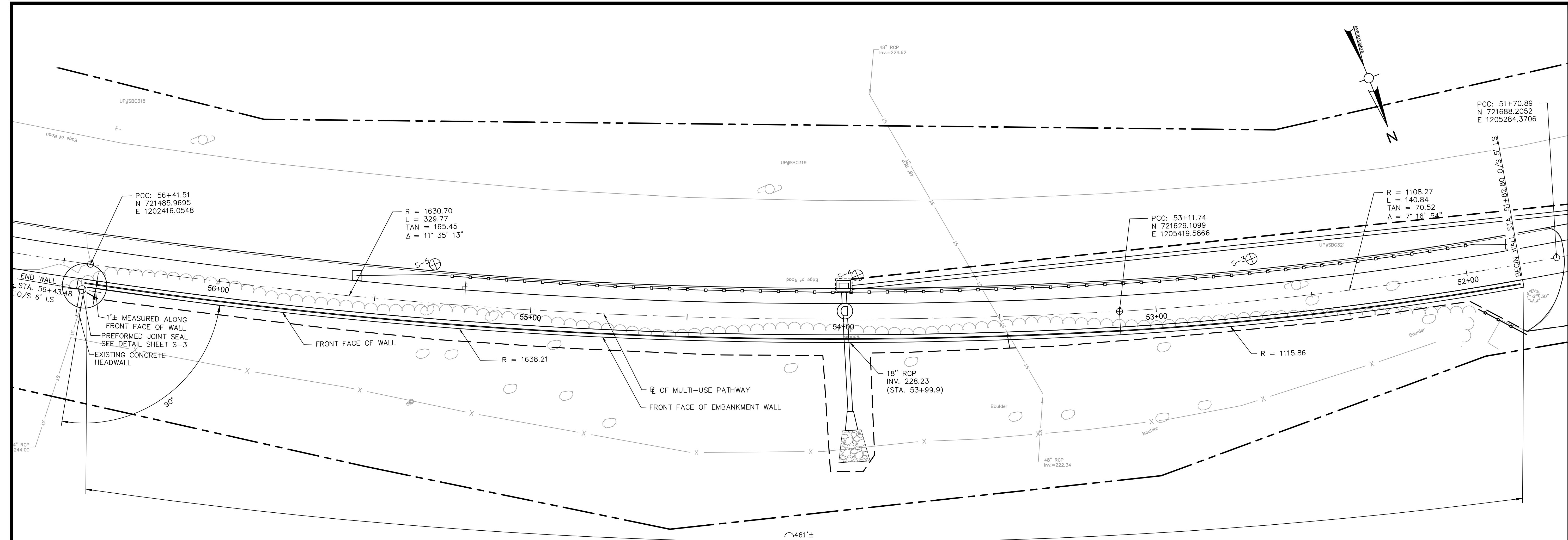
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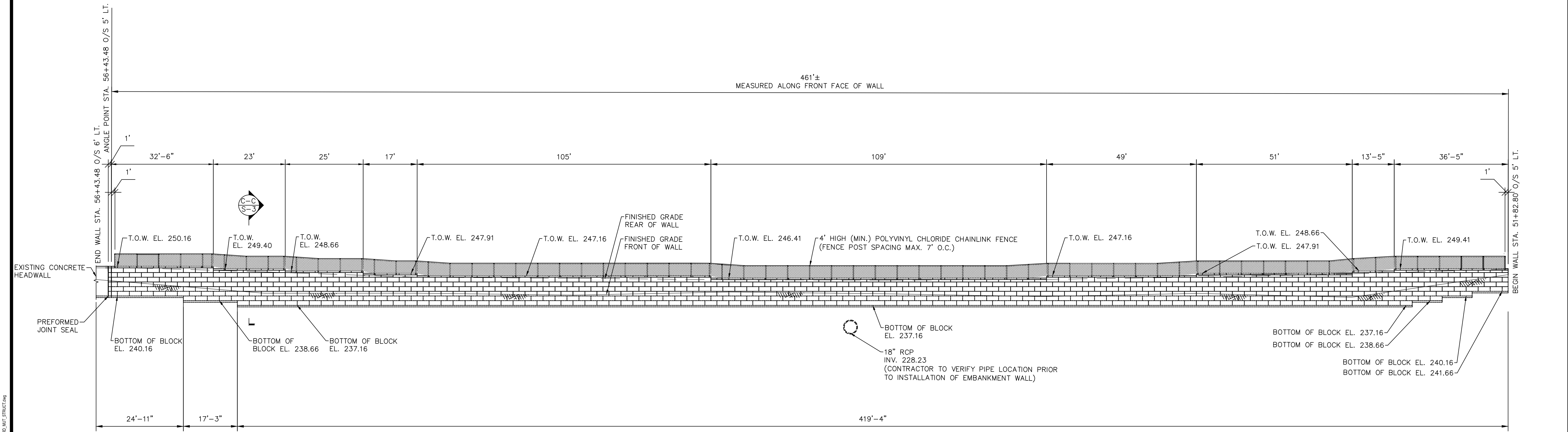
EMBANKMENT WALL
SITE NO. 1,
NO. 2, NO.3
PLAN AND
ELEVATION

Sheet Number:

S-1




PLAN
SCALE 1/16"=1'-0"



DEVELOPED ELEVATION — SITE NO. 4
SCALE 1/16"=1'-0"

Project:
TOWN OF LEDYARD, CT



LEDYARD HIGH SCHOOL
MULTI-USE PATHWAY &
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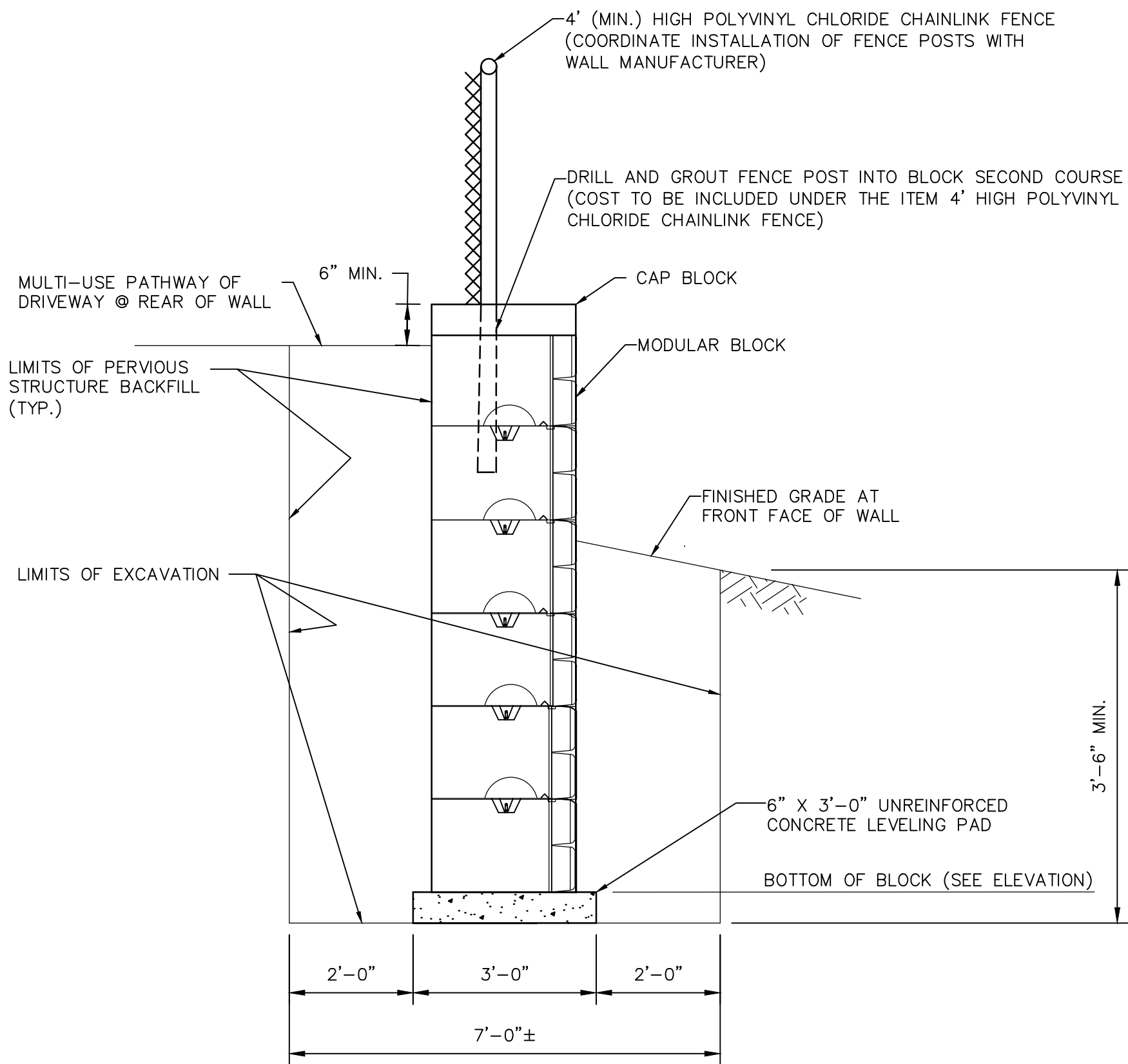
EMBANKMENT WALL
SITE NO. 4 PLAN, AND
ELEVATION

Sheet Number:

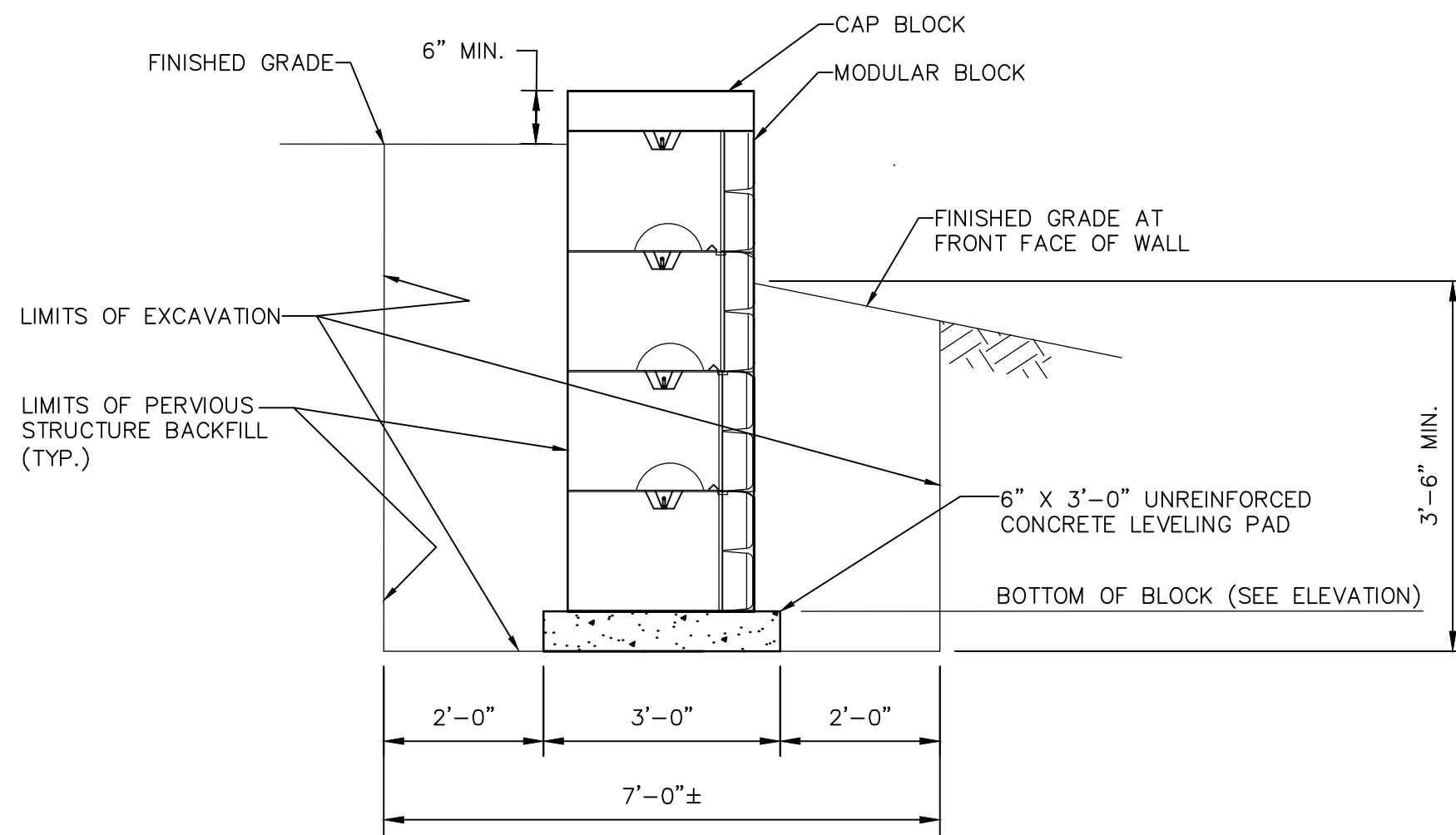
S-2

Rev. 1.6 Date: 04/10/2019

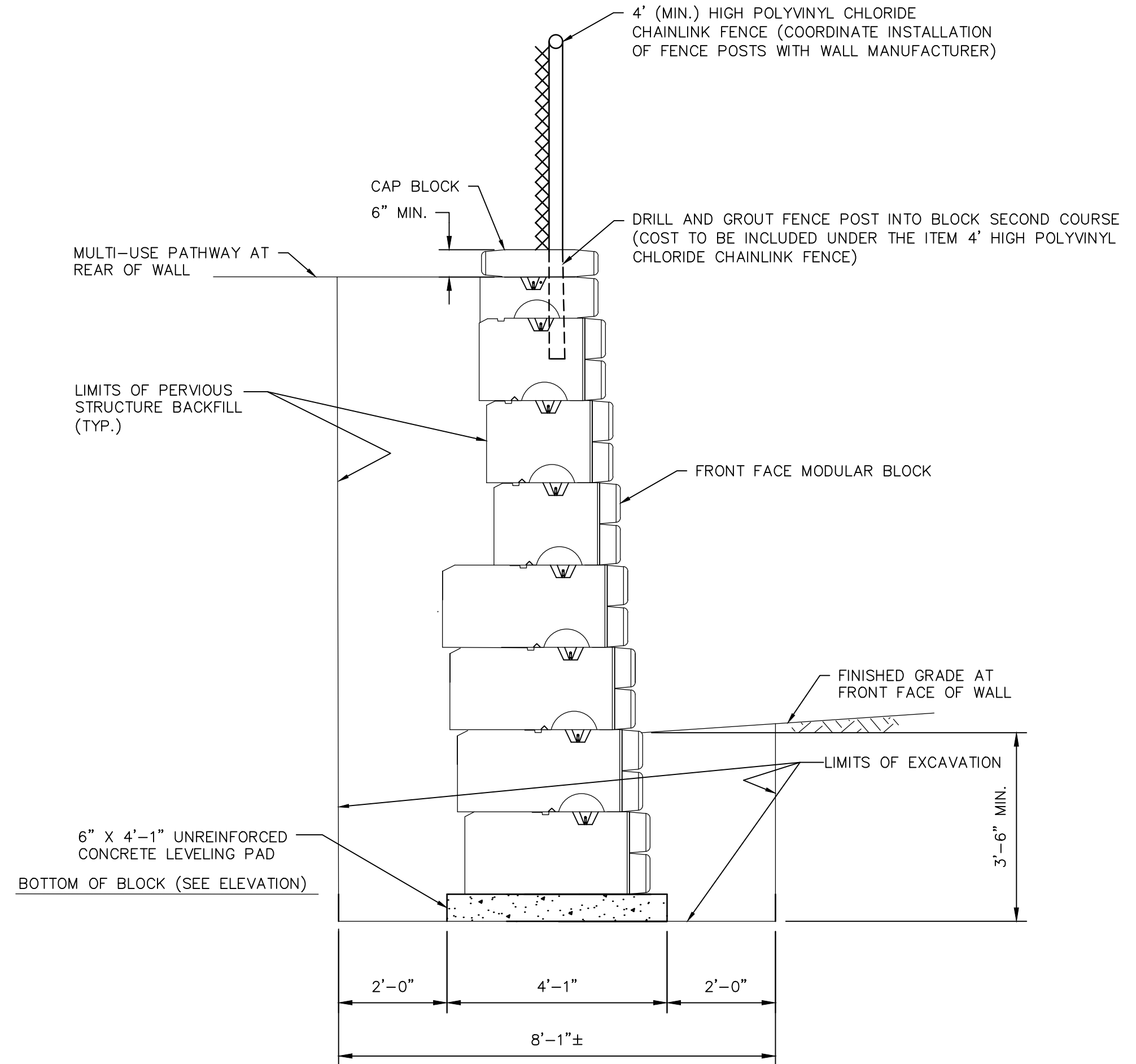
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SECTION A-A
SCALE 1/2"=1'-0"



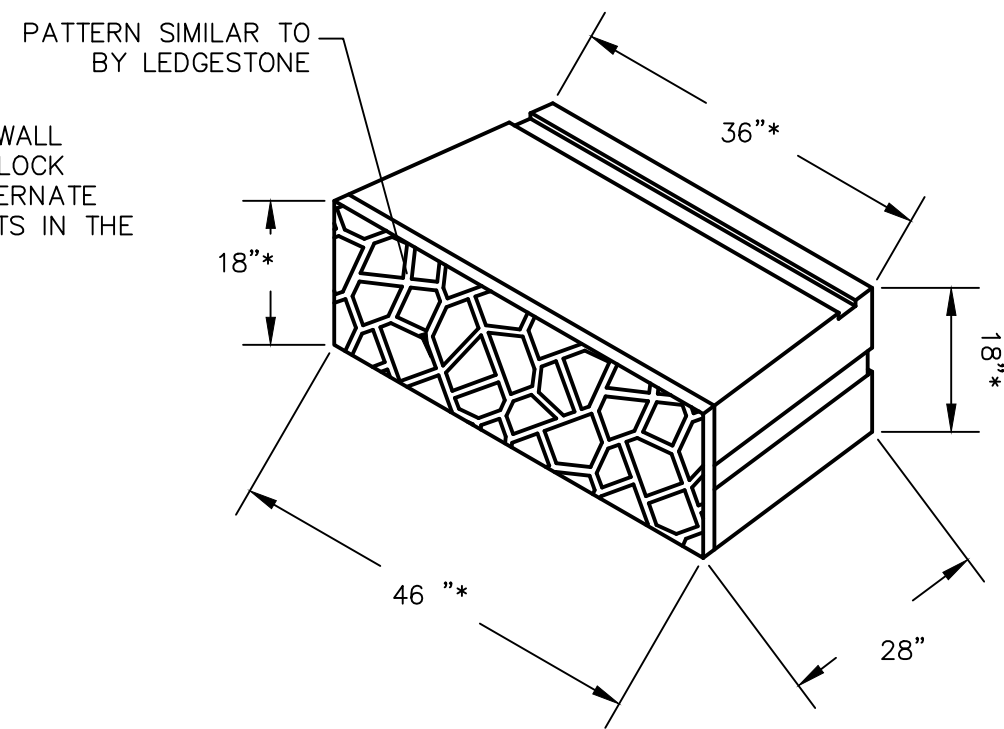
SECTION B-B
SCALE 1/2"=1'-0"



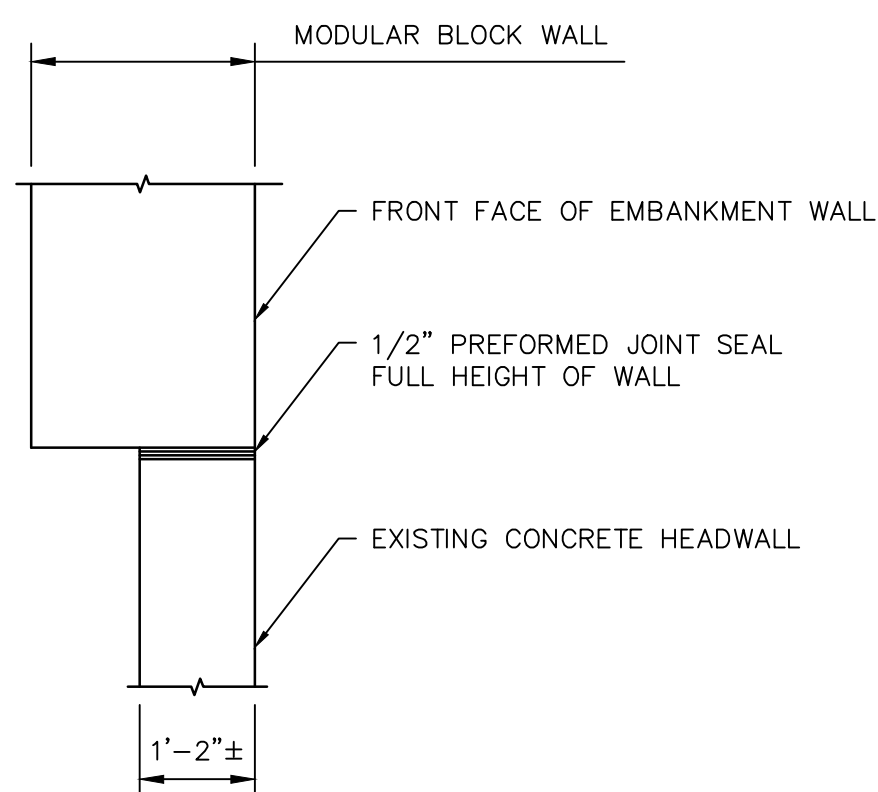
SECTION C-C
SCALE 1/2"=1'-0"

NOTE:

* - CONTRACTOR TO DESIGN MODULAR WALL SYSTEM. BLOCK SHOWN IS REDI-ROCK BLOCK DIMENSIONS. CONTRACTOR MAY USE ALTERNATE BLOCKS PROVIDED ALL THE REQUIREMENTS IN THE PLANS AND SPECIFICATIONS ARE MET.



MODULAR BLOCK
SCALE: N.T.S.



PREFORMED JOINT SEAL DETAIL
SCALE: 1/2"=1'-0"

Project:
TOWN OF LEDYARD, CT



LEDYARD HIGH SCHOOL
MULTI-USE PATHWAY &
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W&S Project No.: ENG20-1119

W&S File No.:

Drawing Title:

**EMBANKMENT WALL
SECTIONS AND
DETAILS**

Sheet Number:

S-3

Client: Weston & Sampson				SEABOARD DRILLING, INC.				Test Boring B-1, B-2, S-1, B-3, B-4, B-5, B-6, B-7, B-8			
Location: Ledyard, CT				649 Meadow St., Chicopee, MA 01013							
Project: Colonel Ledyard Hwy				DRILLING/SOIL LOG							
Contractor: Seaboard Drilling, Inc.								Sheet No.		1 of 1	
Type	Casing	SS	Core Barrel	Hammer (Weight-lb./fall-30")				Start: 5/31/2022			
O.D. Inch	8-1/2"		N/A	140/30 300/24				Finish: 5/31/2022			
I.D. Inch	4-1/4"			Rig Type: Mobile B-53				Driller: Doug Feeley			
FIELD CLASSIFICATIONS AND REMARKS											
Depth (ft.) Range	Blows	Sample No.	Recovery								
0-6"	N/A	B-1		HSA probe to 8", Auger Refusal @ 2.5' Silty Loam, some Sand and Gravel (0-3') No water observed							
0-8"	N/A	B-2		HSA probe to 8", Auger Refusal @ 7.5' Silty Loam, some Sand and Gravel (0-2') some Clay/Gravel (2-8') No water observed							
0-15'	5-3-3-5	S-1		HSA probe to 15', Auger refusal @ 4' Sandy Loam/Clay (0-2') Silty Sand/clay Gravel (2-4') No water observed							
0-15'	N/A	B-3		HSA probe to 15', Auger refusal @ 7.7' Silty loam (0-2), Sandy Loam (2-8')							
0-15'	N/A	B-4		HSA probe to 15', Auger refusal @ 5.2' Silty Loam (0-2), Sand, Loam some Gravel (2-8')							
0-8"	N/A	B-5		HSA probe to 8' Silty Loam (0-2') Sandy Loam (2-8') No Refusal No water observed							
0-8"	N/A	B-6		HSA probe to 8' Silty Loam (0-2') Sandy Loam (2-6'), Sand, No Refusal No water observed							
0-8"	N/A	B-7		HSA probe to 8', Auger refusal @ 6.5' Silty Loam (0-3), Sandy Loam (3-7') No water observed							
0-8"	N/A	B-8		HSA probe to 8', Auger refusal @ 4' Loam/Silty Loam (0-4') No water observed							
SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler											
Density (# Hammer Blows)			Cohesive Consistence (# Hammer Blows)						PROPORTIONS		
0-4	Very Loose	0-2	Very Soft	3-4	Soft	Trace	0 to 10%				
5-9	Loose	5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%				
10-29	Medium-Dense	16-30	Very Stiff	31+	Hard	Some	20 to 35%				
30-49	Dense					and	30 to 50%				
50+	Very Dense										

BORING LOG S-1

Client: Weston & Sampson				SEABOARD DRILLING, INC.				Test Boring/ Monitor Well ID: S-4			
Location: Ledyard, Ct				649 Meadow St., Chicopee, MA 01013							
Project: Colonel Ledyard Hwy				DRILLING/SOIL LOG							
Contractor: Seaboard Drilling, Inc.				Sheet No. 1 of 1							
Type	Casing	SS	Core Barrel	Hammer (Weight-lb./fall-30")				Start: 6/3/2022			
O.D. Inch	8-1/2"		N/A	140/30 300/24				Finish: 6/3/2022			
I.D. Inch	4-1/4"			Rig Type: Mobile B-53				Driller: Doug Feeley			
				FIELD CLASSIFICATIONS AND REMARKS							
Depth (ft.) Range	Blows	Sample No.	Recovery								
1-3"	18-13-11-11	S-1	10"	2" Asphalt Brown SAND and Gravel							
5-7"	28-50/2"	S-2	1"	Brown SAND and Gravel							
5-7" a	22-10-11-15	S-3	1"	Brown fine to coarse SAND and Gravel (Cobbles 5.5' offset)							
10-12"	11-11-6-8	S-4	0	No recovery, casing refusal, no water return							
				End of Boring @ 12'							

BORING LOG S-4

Client: Weston & Sampson				SEABOARD DRILLING, INC.				Test Boring/ Monitor Well ID: S-2	
Location: Ledyard, Ct				649 Meadow St., Chicopee, MA 01013					
Project: Colonel Ledyard Hwy				DRILLING/SOIL LOG					
Contractor: Seaboard Drilling, Inc.				Sheet No. 1 of 1					
Type	Casing	SS	Core Barrel	Hammer (Weight-lb./fall-30")				Start: 7/12/2022	
O.D. Inch	8-1/2"		N/A	140/30 300/24				Finish: 7/12/2022	
I.D. Inch	4-1/4"			Rig Type: Mobile B-53				Driller: Dale Griffin	
FIELD CLASSIFICATIONS AND REMARKS									
Depth (ft.) Range	Blows	Sample No.	Recovery	6" Asphalt Brown coarse to medium sandy loam and gravel Brown coarse to medium sandy loam and gravel Brown coarse to medium sandy loam and gravel Cobble noted in last 2in of sample Note: rock and boulder @ 15' attempted core through to next benchmark End of Boring @ 20' no water observed					
1-3"	12-14-10-7	S-1	12"						
5-7"	3-4-6-4	S-2	4"						
10-12"	8-11-20-45	S-3	10"						
15-17"	N/A	N/A	No Rec						
20-22"	N/A	N/A	No Rec						

BORING LOG S-2

Client: Weston & Sampson				SEABOARD DRILLING, INC.				Test Boring/ Monitor Well ID: S-5											
Location: Ledyard, Ct				649 Meadow St., Chicopee, MA 01013															
Project: Colonel Ledyard Hwy				DRILLING/SOIL LOG															
Contractor: Seaboard Drilling, Inc.								Sheet No.		1 of 1									
Type	Casing		Core Barrel	Hammer (Weight-lb./fall-30")				Start: 6/2/2022											
O.D. Inch	HSA	SS	N/A	140/30 300/24				Finish: 6/3/2022											
I.D. Inch	8-1/2"			Rig Type: Mobile B-53				Driller: Doug Feeley											
	4-1/4"			FIELD CLASSIFICATIONS AND REMARKS															
Depth (ft.) Range	Blows	Sample No.	Recovery																
1-3'	16-19-43-21	S-1	6"									2" Asphalt							
												Brown coarse SAND and Gravel							
5-7'	10-23-26-48	S-2	4"									Grey to Brown fine to med SAND and Gravel							
												Note: rock and boulder @ 8' reset casing offset, washout to 10'							
10-12'	9-5-2-3	S-3	3"									Brown fine Sand and Silt							
15-17'	26-35-29-30	S-4	10"									Brown fine Sand and Silt							
20-22'	16-15-24-21	S-5	12"									Brown coarse SAND and Gravel							
25-27'	11-13-13-17	S-6	8"									Grey Sandy SILT and Gravel							
												End of Boring @ 27' no water observed							
SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler																			
Density (# Hammer Blows)				Cohesive Consistence (# Hammer Blows)				PROPORTIONS											
0-4	Very Loose	0-2	Very Soft	3-4	Soft	Trace	0 to 10%												
5-9	Loose	5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%												
10-29	Medium-Dense	16-30	Very Stiff	31+	Hard	Some	20 to 35%												
30-49	Dense					and	30 to 50%												
50+	Very Dense																		

BORING LOG S-5

Client: Weston & Sampson				SEABOARD DRILLING, INC.				Test Boring/ Monitor Well ID: S-3			
Location: Ledyard, Ct				649 Meadow St., Chicopee, MA 01013							
Project: Colonel Ledyard Hwy				DRILLING/SOIL LOG							
Contractor: Seaboard Drilling, Inc.								Sheet No.		1 of 1	
Type	Casing		SS	Core Barrel	Hammer (Weight-lb./fall-30")				Start: 7/11/2022		
O.D. Inch	8-1/2"			N/A	140/30 300/24				Finish: 7/11/2022		
I.D. Inch	4-1/4"				Rig Type: Mobile B-53				Driller: Dale Griffin		
										FIELD CLASSIFICATIONS AND REMARKS	
Depth (ft.) Range	Blows	Sample No.	Recovery								
1-3'	17-17-14-17	S-1	5"	6" Asphalt							
				Brown coarse to medium sandy loam and gravel							
5-7'	35-19-4-5	S-2	2"	Brown coarse to medium sandy loam and gravel							
				Note: rock and boulder @ 10' attempted core through							
10-12'	N/A	N/A	N/A	No sample recovery, rock coring							
15-17'	9-5-6-8	S-3	8"	Penetrated rock/boulder @ ~16'							
				Grey medium loamy sand and gravel							
20-22'	5-14-13-10	S-4	8"	Grey medium loamy sand and gravel							
25-27'	9-8-14-13	S-5	8"	Grey Sand and gravel							
				End of Boring @ 27' no water observed							
SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler										PROPORTIONS	
Density (# Hammer Blows)				Cohesive Consistency (# Hammer Blows)							
0-4	Very Loose		0-2	Very Soft	3-4	Soft	Trace	0 to 10%			
5-9	Loose		5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%			
10-29	Medium-Dense		16-30	Very Stiff	31+	Hard	Some	20 to 35%			
30-49	Dense						and	30 to 50%			
50+	Very Dense										

