BID SET No. _____

TOWN OF WELLS, MAINE

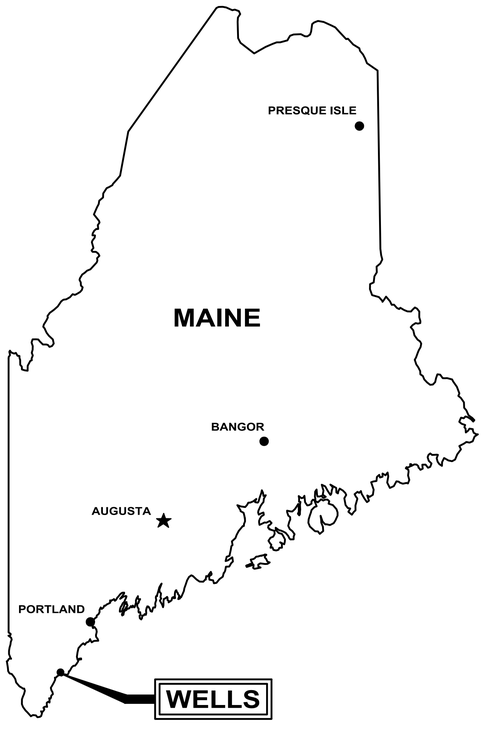
CONTRACT DRAWINGS FOR

HARBOR ROAD
PEDESTRIAN IMPROVEMENTS

WIN # 0023913.00

OCTOBER 2020

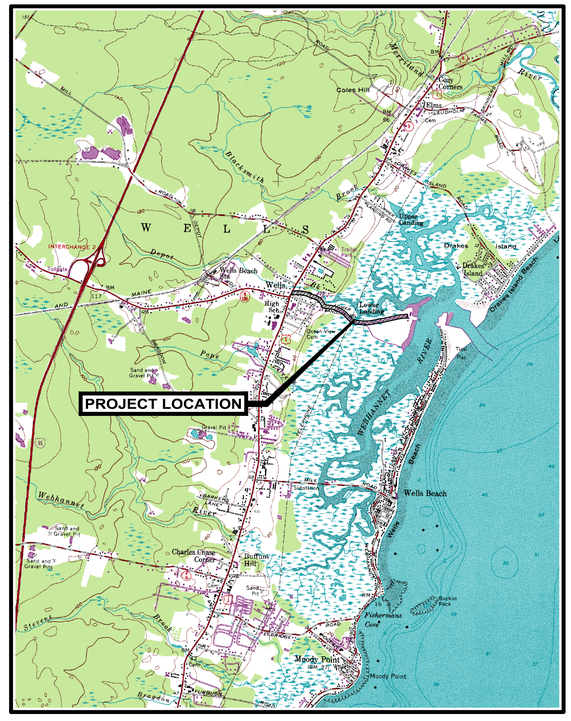
FINAL PSE REVIEW



DRAWING INDEX

DRAWING	TITLE
G-1	COVER SHEET
CIVIL	
C-1	GENERAL NOTES, LEGEND AND ABBREVIATIONS
C-2	OVERVIEW PLAN
C-3	TYPICAL SECTIONS
C-4	EROSION CONTROL NOTES AND DETAILS
C-5	EXISTING CONDITIONS AND DEMOLITION PLAN STA 0+00 TO STA 5+50
C-6	EXISTING CONDITIONS AND DEMOLITION PLAN STA 5+50 TO STA 11+50
C-7	EXISTING CONDITIONS AND DEMOLITION PLAN STA 11+50 TO STA 17+50
C-8	EXISTING CONDITIONS AND DEMOLITION PLAN STA 17+50 TO STA 23+00
C-9	EXISTING CONDITIONS AND DEMOLITION PLAN STA 23+00 TO STA 29+00
C-10	EXISTING CONDITIONS AND DEMOLITION PLAN STA 29+00 TO STA 34+50
C-11	EXISTING CONDITIONS AND DEMOLITION PLAN STA 34+50 TO STA 40+00
C-12	SITE LAYOUT PLAN - STA 0+00 TO STA 5+50
C-13	SITE LAYOUT PLAN - STA 5+50 TO STA 11+50
C-14	SITE LAYOUT PLAN - STA 11+50 TO STA 17+50
C-15	SITE LAYOUT PLAN - STA 17+50 TO STA 23+00
C-16	SITE LAYOUT PLAN - STA 23+00 TO STA 29+00
C-17	SITE LAYOUT PLAN - STA 29+00 TO STA 34+50
C-18	SITE LAYOUT PLAN - STA 34+50 TO STA 40+00
C-19	DETAILS I
C-20	DETAILS II
C-21 TO C-35	CROSS SECTIONS

LANDSCAPE	
L-1.0	OVERALL PLAN
L-2.0	BOARDWALK & VIEWING PLATFORM
L-3.0	PLANTING PLAN
L-3.1	PLANTING DETAILS
L-4.0	DETAILS
L-4.1	DETAILS
L-4.2	DETAILS



LOCATION PLAN
SCALE: 1"=1,500'

WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

STATE OF MAINE
MICHAEL A. GUETHLE
14284
LICENSED PROFESSIONAL ENGINEER
10/9/2020

FOR REVIEW 10/09/2020

FOR BIDDING _____

WP PROJECT No. 20067A

GENERAL NOTES

1. THE CONTRACTOR IS REFERRED TO THE SPECIFICATIONS REGARDING COORDINATION WITH OTHERS, INCLUDING RESPONSIBILITIES AND RELATED COSTS. THE CONTRACTOR SHALL COORDINATE ALL UTILITY ADJUSTMENTS AS NECESSARY WITH EACH RESPECTIVE UTILITY.

2. BELOW GRADE UTILITY INFORMATION IS BASED ON INFORMATION PROVIDED BY EACH UTILITY. LOCATION OF PUBLIC UTILITIES SHOWN IS ONLY APPROXIMATE AND MAY NOT BE COMPLETE. PRIVATE UNDERGROUND UTILITIES SUCH AS, BUT NOT LIMITED TO, SEWER LINES, WATER LINES AND BURIED ELECTRICAL SERVICE ENTRANCES ARE NOT SHOWN. THE CONTRACTOR SHALL ASCERTAIN THE LOCATION AND SIZE OF EXISTING UTILITIES IN THE FIELD WITH THE RESPECTIVE UTILITY REPRESENTATIVE PRIOR TO COMMENCING WORK. REFER TO THE SPECIFICATIONS. NO GUARANTEE IS MADE THAT UTILITIES OR STRUCTURES WILL BE ENCOUNTERED WHERE SHOWN OR THAT ALL UNDERGROUND UTILITIES AND STRUCTURES ARE SHOWN. ALL LOCATIONS AND SIZES OF EXISTING UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD WITH TEST PITS AS REQUIRED PRIOR TO BEGINNING CONSTRUCTION OF NEW FACILITIES OR PIPING THAT MAY BE AFFECTED. ADDITIONAL TEST PITS, BEYOND THOSE SHOWN, MAY BE REQUIRED. THE CONTRACTOR WILL REALIGN NEW PIPE LOCATIONS AS REQUIRED TO CONFORM TO EXISTING LINES AND AS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL NOTIFY DIG SAFE PRIOR TO DIGGING.

   UTILITY CONTACTS ARE AS FOLLOWS:

CENTRAL MAINE POWER COMPANY: ATTN: ALAN DYER TEL. (207) 629-9555	WELLS SANITARY DISTRICT: ATTN: NICK RICO TEL. (207) 646-5906	DIGSAFE: 1-888-DIG-SAFE
CONSOLIDATED COMMUNICATIONS: ATTN: MARTY PEASE TEL. 1-866-774-5228	KKW WATER DISTRICT: ATTN: JAMIE PASCHAL TEL. (207) 985-3311	TOWN OF WELLS: PLANNING & DEVELOPMENT ATTN: MICHAEL G. LIVINGSTON TEL. (207) 646-5187

3. MAINE DEPARTMENT OF TRANSPORTATION WORK IDENTIFICATION NUMBER: 0023913.00

4. ALL EXISTING SEWER, STORM DRAIN, AND WATER LINES WHICH ARE NOT BEING REPLACED UNDER THESE CONTRACT DRAWINGS AND WATER LINES ENCOUNTERED DURING CONSTRUCTION ARE TO REMAIN IN SERVICE UNLESS OTHERWISE INDICATED. ANY EXISTING SEWERS, STORM DRAIN, WATER LINES, AND CULVERTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER OR UTILITY OWNERS.

5. ALL STRUCTURES AND PIPELINES LOCATED ADJACENT TO THE TRENCH EXCAVATION SHALL BE PROTECTED AND FIRMLY SUPPORTED BY THE CONTRACTOR UNTIL THE TRENCH IS BACKFILLED. INJURY TO ANY SUCH STRUCTURES CAUSED BY, OR RESULTING FROM, THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. ALL UTILITIES REQUIRING REPAIR, RELOCATION OR ADJUSTMENT AS A RESULT OF THE PROJECT SHALL BE COORDINATED THROUGH THE RESPECTIVE UTILITY.

6. IN THOSE INSTANCES WHERE POWER OR TELEPHONE POLE SUPPORT IS REQUIRED, THE CONTRACTOR SHALL PROVIDE A MINIMUM 48-HOUR NOTIFICATION TO THE RESPECTIVE UTILITY COMPANY. NO ADDITIONAL PAYMENT WILL BE PROVIDED FOR TEMPORARY BRACING OF UTILITIES.

7. DO NOT SCALE DRAWINGS UNLESS OTHERWISE NOTED. WRITTEN DIMENSIONS AND STATIONING SHALL PREVAIL. REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.

8. THE CONTRACTOR SHALL INSTALL AND MAINTAIN TRAFFIC CONTROL DEVICES AS NECESSARY AND IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.).

9. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRAFFIC FLOW AT ALL TIMES. THE CONTRACTOR IS REQUIRED TO SUBMIT A TRAFFIC CONTROL PLAN AND HAVE IT APPROVED BY THE OWNER AND MAINEDOT PRIOR TO COMMENCING CONSTRUCTION. THE WELLS POLICE DEPARTMENT (207-646-9354) AND FIRE DEPARTMENT (207-646-7912) ARE TO BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF ANY STREET CROSSING. STREET CLOSURES ARE NOT ALLOWED. ONE LANE OF ALTERNATING TRAFFIC MUST BE MAINTAINED AT ALL TIMES.

10. THE OWNER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RIGHTS OF WAY AND EASEMENTS. PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL VERIFY THAT THE NECESSARY EASEMENTS HAVE BEEN SECURED BY THE OWNER. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH THE APPLICABLE PROVISIONS OF EACH EASEMENT AS THEY APPLY TO THE WORK PRIOR TO BIDDING AND ABIDE BY THOSE PROVISIONS DURING CONSTRUCTION.

11. OPEN TRENCHES ON THE SITE MAY BE LEFT OPEN IF THE CONTRACTOR PROVIDES ADEQUATE BARRICADING AND LIGHTS IN ACCORDANCE WITH OSHA REGULATIONS, MAINEDOT GUIDELINES AND REGULATIONS, CHAPTER 7 OF THE MUTCD, AND APPROVAL FROM THE OWNER.

12. ALL PROPOSED ROAD, DRIVE, AND SIDEWALK AREA SURFACES SHALL PITCH 1/4" PER FOOT MINIMUM, UNLESS OTHERWISE NOTED ON PLANS. ALL EXISTING ROAD, AND SIDEWALK AREAS SHALL MATCH EXISTING SLOPE CONDITIONS UNLESS OTHERWISE NOTED. CROSS SLOPES ON SIDEWALKS SHALL NOT EXCEED 2%.

13. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

14. THE CONTRACTOR SHALL NOTIFY RESIDENTS IN PERSON OR IN WRITING 24 HOURS IN ADVANCE OF WORKING IN AN AREA.

15. THE CONTRACTOR SHALL BE REQUIRED TO FURNISH AND MAINTAIN A TELEPHONE NUMBER WHERE THE CONTRACTOR CAN BE REACHED 24 HOURS A DAY, 7 DAYS A WEEK, UNTIL THE PROJECT HAS REACHED SUBSTANTIAL COMPLETION.

16. THE CONTRACTOR IS TO TAKE SPECIAL CARE NOT TO DAMAGE TREES, BUSHES, PLANTS, FLOWERS, STONE WALLS, FENCES, ETC. WITHIN THE CONSTRUCTION AREA UNLESS OTHERWISE NOTED ON PLANS OR AS DIRECTED BY THE TOWN. TREES TO BE REMOVED ARE TO HAVE THE STUMPS REMOVED AND THE PITS SHALL BE LOAMED AND SEEDED.

17. ANY PAVEMENT TO BE REMOVED SHALL BE SAWCUT PRIOR TO REMOVAL. PAVEMENT IS TO BE SAW CUT AT ALL SIDE ROADS AND PAVED DRIVES, AS WELL AS THE BEGINNING AND END OF THE PROJECT. BUTT JOINTS SHOULD BE USED IN DRIVEWAYS AND SHIPLAP JOINTS IN THE ROADWAYS AND SHOULDERS.

18. THE CONTRACTOR SHALL REGRADE ALL DISTURBED AREAS AS NECESSARY FOR POSITIVE DRAINAGE.

19. ALL TEST PITS SHALL BE EXCAVATED PRIOR TO CONSTRUCTION LAYOUT AND RESULTS REPORTED TO ENGINEER FOR REVIEW FOR CONFORMANCE WITH PLANS. TEST PITS ARE REQUIRED AS NEEDED TO DETERMINE EXISTING UTILITY LOCATION AND AS DIRECTED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR RECORDING INFORMATION OBTAINED FROM TEST PITS AND RELAYING THAT INFORMATION TO THE ENGINEER. TEST PITS ARE NOT TO BE BACKFILLED WITHOUT THE ENGINEER'S PERMISSION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT OF ALL PROPOSED LINES AND STRUCTURES AS SHOWN ON THE DRAWINGS. THE LAYOUT PLAN SHALL BE REVIEWED BY THE ENGINEER PRIOR TO CONSTRUCTION.

20. THE CONTRACTOR WILL UNDERTAKE ALL CLEARING OPERATIONS THAT ARE NOT THE RESPONSIBILITY OF THE UTILITY COMPANIES. THE TOWN SHALL MINIMIZE CLEARING OPERATIONS. CLEARING AND GRUBBING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS. ALL GRUBBING AND STUMPS ARE THE PROPERTY OF THE CONTRACTOR AND WILL BE DISPOSED OF AT A SITE PROVIDED BY CONTRACTOR IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL LAWS AND REQUIREMENTS.

21. SUITABLE EXCAVATED MATERIALS MAY BE INCORPORATED INTO THE PROJECT. THE OWNER HAS THE RIGHT OF FIRST REFUSAL OF ALL EXCESS SUITABLE MATERIAL FROM THE PROJECT. THIS PROVISION SHALL IN NO WAY RELIEVE THE CONTRACTOR OF HIS OBLIGATIONS TO REMOVE AND DISPOSE OF ANY MATERIAL DETERMINED BY THE ENGINEER TO BE UNSUITABLE FOR BACKFILLING OR EXCESS SUITABLE MATERIAL UNWANTED BY THE OWNER. THE CONTRACTOR SHALL DISPOSE OF UNSUITABLE AND EXCESS MATERIAL IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL LAWS AND REQUIREMENTS. THE CONTRACTOR SHALL NOT HAVE ANY RIGHT OF PROPERTY IN ANY MATERIALS TAKEN FROM ANY EXCAVATION, WITH THE EXCEPTION OF TREES TO BE REMOVED BY THE CONTRACTOR. USE AND PLACEMENT OF EXCAVATED MATERIAL IS PAID FOR ONLY AS COMMON EXCAVATION. TREES TO BE REMOVED SHALL BE THE PROPERTY OF THE CONTRACTOR.

22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREVENTION OF EROSION. ALL DISTURBED EARTH SURFACES ARE TO BE STABILIZED IN THE SHORTEST PRACTICAL TIME AND TEMPORARY EROSION CONTROL DEVICES SHALL BE EMPLOYED UNTIL SUCH TIME AS ADEQUATE SOIL STABILIZATION HAS BEEN ACHIEVED. TEMPORARY STORAGE OF EXCAVATED MATERIAL IS TO BE IN A MANNER THAT WILL MINIMIZE EROSION. MATERIALS AND METHODS USED FOR TEMPORARY EROSION CONTROL SHALL BE AS SPECIFIED BY THE "MAINE BMP MANUAL", MOST RECENT EDITION.

23. THE CONTRACTOR SHALL CONTROL DUST TO A TOLERABLE LIMIT AS DETERMINED BY THE RESIDENT ENGINEER OR TOWN. CONTRACTOR SHALL NOT TRACK OR SPILL EARTH AND DEBRIS ON PUBLIC STREETS OUTSIDE THE PROJECT AREA. STREETS OPEN TO THE PUBLIC SHALL BE KEPT SWEPT DAILY AND FREE OF DEBRIS. DUST CONTROL SHALL BE CONSIDERED INCIDENTAL TO ITEM 656.75.

24. ALL STORM DRAINAGE INLETS SHALL BE PROTECTED BY CATCH BASIN INLET PROTECTION DEVICES TO PREVENT ENTRY OF SEDIMENT FROM RUNOFF WATERS DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL COLLECTED SEDIMENT, RESULTING IN HIS OPERATIONS UNTIL THE PROJECT IS SUBSTANTIALLY COMPLETE AND READY FOR FINAL PAYMENT. FINAL FLUSHING AND CLEANING OF THE STORM DRAIN SYSTEM PRIOR TO THE TOWN'S ACCEPTANCE IS INCIDENTAL TO THE CONTRACT.

25. THE CONTRACTOR SHALL COORDINATE PAVING WITH THE OWNER. ALL CATCH BASINS, SEWER MANHOLES AND OTHER BURIED FACILITIES WITH SURFACE ACCESS SHALL BE ADJUSTED TO MATCH FINAL GRADES BY THE CONTRACTOR PRIOR TO PLACEMENT OF SURFACE PAVEMENT, UNLESS OTHERWISE INDICATED. THE CONTRACTOR SHALL PAVE AROUND THE ADJUSTED FACILITIES.

26. CONTRACTOR SHALL REMOVE AND REPLACE ALL CURBS, SIDEWALKS, PAVEMENT AND OTHER ITEMS DAMAGED BY HIS CONSTRUCTION ACTIVITIES TO AT LEAST THEIR ORIGINAL CONDITION, AND TO THE SATISFACTION OF THE TOWN AND ENGINEER.

27. WHERE EXISTING PAVEMENT IS REMOVED AND REPLACED, MATCH EXISTING GRADES TO THE EXTENT POSSIBLE. COORDINATE FINAL GRADING WITH THE ENGINEER.

28. AREAS DISTURBED BY THE CONTRACTOR OUTSIDE OF THE WORK LIMITS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL EXPENSE TO THE TOWN.

29. THE CONTRACTOR SHALL PROVIDE NOTIFICATION TO CENTRAL MAINE POWER, WELLS PUBLIC WORKS, KKW WATER DISTRICT, AND WELLS SEWER DISTRICT AT LEAST THREE DAYS PRIOR TO COMMENCING WORK

30. NEW DRAINAGE STRUCTURES AND EXISTING DRAINAGE STRUCTURES TO BE ALTERED OR REBUILT ARE TO BE CLEANED BY THE CONTRACTOR AND THE MATERIAL TO BE DISPOSED OF PER TOWN ORDINANCE. THERE WILL BE NO PAYMENT FOR CLEANING NEW, ALTERED, ADJUSTED, OR REBUILT CATCH BASINS.

31. THE CONTRACTOR SHALL TAKE PRE-CONSTRUCTION PHOTOGRAPHS AND PROVIDE COPIES TO THE OWNER PRIOR TO CONSTRUCTION. THIS WORK SHALL INCLUDE ALL PRIVATE PROPERTY THAT MAY BE IMPACTED BY THE PROJECT.

32. THE TOWN SHALL BE RESPONSIBLE FOR OBTAINING THE PERMITS REQUIRED BY THE STATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH THE APPLICABLE PROVISIONS OF THE PERMITS AS THEY APPLY TO THE WORK PRIOR TO BIDDING AND ABIDE BY THOSE PROVISIONS DURING CONSTRUCTION. COPIES OF ALL OBTAINED PERMITS ARE AVAILABLE FOR REVIEW AT THE TOWN HALL. ALL OTHER PERMITS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

33. CURB CUT LOCATIONS FOR DRIVEWAYS ARE TO BE FIELD VERIFIED WITH THE RESIDENT.

34. FLOWS FROM DEWATERING EFFORTS SHALL NOT BE DISCHARGED TO SANITARY OR COMBINED SEWERS.

35. THE CONTRACTOR IS RESPONSIBLE FOR RELOCATING MAILBOXES, BUSINESS SIGNS AND BOULDERS THAT INTERFERE WITH THE NEW CURB OR SIDEWALK TO WITHIN 100 FEET OF THEIR ORIGINAL LOCATION, AS DIRECTED BY THE ENGINEER AND TOWN, OR AS SHOWN ON THE PLANS.

36. ALL AREAS THAT ARE NOT SPECIFICALLY IDENTIFIED ON THE PLANS THAT MUST BE EXCAVATED, FILLED, OR OTHERWISE DISTURBED BY THE CONTRACTOR THAT ARE NOT TO BE PAVED, INCLUDING, BUT NOT LIMITED TO RETAINING WALLS, WALKWAYS, STEPS, FENCES, AND LANDSCAPE AREAS, SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION OR BETTER. THIS WORK IS CONSIDERED INCIDENTAL TO THE CONTRACT AND SHALL BE AT NO ADDITIONAL EXPENSE TO THE OWNER.

37. THE CONTRACTOR SHALL RESET OR REPLACE EXISTING STREET & TRAFFIC SIGNS DISTURBED BY THE CONTRACTOR'S OPERATIONS IN ACCORDANCE WITH THE M.U.T.C.D. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE TOWN'S PUBLIC WORKS DEPARTMENT. REGULATORY SIGNS SHALL BE TEMPORARILY MOUNTED CLOSE TO THEIR ORIGINAL LOCATION UNTIL SUCH TIME AS THEY CAN BE PERMANENTLY REMOUNTED.

GENERAL NOTES (CONT.)

38. PAVEMENT AREAS TO BE CUT, GROUND AND OVERLAID SHALL RECEIVE A TACK COAT PRIOR TO NEW PAVEMENT PLACEMENT, AT RATE SPECIFIED IN THE SPECIFICATIONS.

39. CATCH BASINS SHALL BE 4' DIAMETER STRUCTURES UNLESS OTHERWISE INDICATED.

40. THE CONTRACTOR SHALL PRODUCE AND FURNISH PROJECT RECORDS AS REQUIRED BY THE CONTRACT DOCUMENTS, INCLUDING, BUT NOT LIMITED TO CONSTRUCTION SCHEDULES, BONDS, SHOP DRAWINGS, WARRANTIES, GUARANTEES, CERTIFICATIONS, AND OTHER SUBMITTALS.

41. LIMITS OF WORK IN EXISTING DRIVES ARE APPROXIMATE AS SHOWN ON THE PLANS. ACTUAL LIMITS OF WORK ARE TO BE DETERMINED BY THE CONTRACTOR AND THE TOWN BASED ON THESE DRAWINGS AND SLOPE AS APPROVED BY THE ENGINEER.

42. INSULATE WITH 2" RIDGED BOARD STYROFOAM INSULATION OVER ANY WATER MAINS, WATER SERVICE LINES, OR GRAVITY SEWER WHERE COVER IS LESS THAN 5 FT., OR THERE IS LESS THAN 2 FT VERTICAL DISTANCE BETWEEN SEWER OR WATER AND STORM DRAIN PIPE.

43. CONSTRUCT TRANSITION RAMPS AT THE ENDS OF ALL SIDEWALKS, DRIVEWAYS, AND ROADWAYS. DETECTABLE WARNING DEVICES SHALL BE INSTALLED ON ALL SIDEWALK TRANSITION RAMPS AT ROADWAY INTERSECTIONS OR AS OTHERWISE SHOWN ON THE PLANS. SIDEWALKS SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA) AND MAINEDOT STANDARD DETAILS 801(11) - 801(26).

44. ALL STANDARD DETAILS ARE IN THE STATE OF MAINE DEPARTMENT OF TRANSPORTATION STANDARD DETAILS, REV. MARCH 2020, AND THE LATEST REVISIONS.

45. ALL EXISTING WATER SYSTEM VALVES SHALL BE OPERATED BY THE KENNEBUNK, KENNEBUNKPORT AND WELLS WATER DISTRICT (KKW). THE CONTRACTOR SHALL COORDINATE WITH THE KKW WATER DISTRICT FOR ANY WORK REQUIRING SHUTDOWN OF THE WATER MAIN.

46. THE KKW WATER DISTRICT WILL BOTH REPAIR ALL VALVE BOXES THAT ARE IN NEED OF REPLACEMENT AND ALSO RAISE THESE TO GRADE PRIOR TO HOT TOP/CONCRETE INSTALLATION, AND WILL MAKE ALL ADJUSTMENTS TO THE WATER SYSTEM. IF THE WATER DISTRICT DETERMINES THE CONTRACTOR SHALL INSTALL NEW VALVE BOXES AND COVERS, THE WATER DISTRICT WILL PROVIDE THE NEW VALVE BOXES AND COVERS, AND WILL PAY FOR THEIR INSTALLATION OUTSIDE OF THIS CONTRACT. THE CONTRACTOR IS TO COORDINATE DIRECTLY WITH THE KKW WATER DISTRICT ON PAYMENT TIMING, AND REQUIREMENTS FOR THIS WORK.

47. ALL AREAS THAT ARE EXCAVATED, FILLED, OR OTHERWISE DISTURBED BY THE CONTRACTOR WHICH ARE NOT TO BE PAVED OR FINISHED WITH BARK MULCH SHALL BE LOAMED, GRADED, LIMED, FERTILIZED, SEEDED, AND MULCHED, UNLESS OTHERWISE NOTED. THE TOP 4 INCHES OF SOIL SHALL BE LOAM. THE CONTRACTOR SHALL WATER THE SEEDED AREA TO AID IN THE ESTABLISHMENT OF THE NEW SEED.

48. SIDEWALKS SHALL NOT BE INSTALLED UNTIL KKW WATER DISTRICT HAS RELOCATED THE AFFECTED EXISTING CURB STOPS AND EXISTING WATER SERVICES.

49. INSTALL A "LIP" AT EACH DRIVEWAY THAT SLOPES AWAY FROM THE EDGE OF PAVEMENT TO PREVENT ROAD RUNOFF FROM ENTERING DRIVEWAYS.

50. FOR UTILITY POLES, THE CONTRACTOR WILL PROVIDE AN INITIAL LAYOUT (STAKES/NAILS) OF THE POLE LOCATIONS BASED ON THE POLE LIST THAT IS IN THE SPECIFICATIONS. THE CONTRACTOR IS THEN RESPONSIBLE FOR MAINTAINING AND OR REPLACING THE POLE LOCATION STAKES/NAILS UNTIL THE POLES ARE SET BY THE RESPECTIVE UTILITIES. THE CONTRACTOR SHALL EMPLOY OR RETAIN COMPETENT ENGINEERING AND/OR SURVEYING PERSONNEL TO FULFILL THESE RESPONSIBILITIES. THE CONTRACTOR MUST NOTIFY THE TOWN OF ANY ERRORS OR INCONSISTENCIES REGARDING THE DATA AND LAYOUT PROVIDED BY THE UTILITIES. POLE LOCATIONS MAY VARY BY A FOOT OR TWO DEPENDING ON POSSIBLE CONFLICTS. ONCE STAKED THE POLES SHOULD BE CHECKED BY UTILITY AND THE CONTRACTOR'S GPS FOR ANY POSSIBLE CONFLICTS WITH PROPOSED DESIGN.

51. CLEARING AND TREE REMOVAL WHICH IS A PART OF THIS CONTRACT IN AREAS WHERE UTILITIES ARE INVOLVED MUST BE COMPLETED BY THE CONTRACTOR BEFORE THE UTILITIES CAN RELOCATE THEIR FACILITIES. ANY TREE REMOVAL OR TREE TRIMMING REQUIRED WITHIN TEN FEET OF THE ELECTRICAL CONDUCTORS MUST BE DONE BY A QUALIFIED CONTRACTOR. A LIST OF TREE REMOVAL CONTRACTORS QUALIFIED TO REMOVE TREES OR LIMBS WITHIN TEN FEET OF THE ELECTRICAL CONDUCTORS MAY BE OBTAINED FROM THE POWER COMPANY.

52. **ALL WORK SHALL BE COMPLETED IN THE DRY. WORK IN TIDAL ZONES IS SUGGESTED TO BE COMPLETED DURING NEAP TIDE CYCLES.**

LAYOUT NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT OF ALL PROPOSED LINES AND GRADES AS SHOWN ON THE DRAWINGS. THE SURVEY WAS UNDERTAKEN USING A LOCAL COORDINATE SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING HORIZONTAL CONTROL POINTS AND FOR MAINTAINING THIS INFORMATION THROUGHOUT THE COURSE OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL ELEVATION REFERENCE INFORMATION PRIOR TO USE IN CONSTRUCTION. REPORT ANY LAYOUT DISCREPANCIES IMMEDIATELY TO THE ENGINEER.

2. THE LOCATION AND LIMITS OF ALL ON-SITE WORK AND STORAGE AREAS SHALL BE REVIEWED/COORDINATED WITH, AND ACCEPTABLE TO, THE OWNER AND ENGINEER. THE CONTRACTOR SHALL LIMIT HIS ACTIVITIES TO THESE AREAS.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REESTABLISHING AND RESETTING ALL EXISTING PROPERTY MONUMENTATION DISTURBED BY HIS OPERATIONS. THIS WORK SHALL BE PERFORMED BY A LAND SURVEYOR REGISTERED IN THE STATE OF MAINE, AT NO ADDITIONAL COST TO THE OWNER.

4. PLANIMETRIC DETAIL DEPICTED HEREON IS THE RESULT OF AN ON-THE-GROUND FIELD SURVEY BY CIVIL CONSULTANTS ON DECEMBER 2-5, 2013, JANUARY 6, 10 & 27, 2014, MARCH 3 & 25, 2019.

SURVEY NOTES

1. EXCEPT AS OTHERWISE NOTED, THE EXISTING SITE FEATURES SHOWN ARE BASED ON A FIELD SURVEY CONDUCTED BY CIVIL CONSULTANTS TITLED "EXISTING CONDITIONS SURVEY OF HARBOR ROAD" DATED APRIL 4, 2019.

2. NORTH AS DEPICTED HEREON IS REFERENCED TO GRID NORTH, NAD83, MAINE STATE PLANE COORDINATE SYSTEM WEST ZONE. COORDINATE VALUES AND ORIENTATION ARE DERIVED FROM A GPS SURVEY COMPUTED UTILIZING THE NGS OPUS ON-LINE PROCESSING SERVICE. REFERENCE FRAME IS NAD83 (2011) EPOCH 2010.0000. THE SURVEY IS TIED TO CORS STATIONS GUNSTOCKMRNH2008 CORS ARP (P776), GORHAM CORS ARP (MEGO) AND NHDOT CONCORD CORS ARP (NHCO). DISTANCES DEPICTED HEREON ARE GRID. TO CONVERT GRID DISTANCES TO GROUND DISTANCES, MULTIPLY THE GRID DISTANCE BY 1.000016490 (AVERAGE COMBINED SCALE FACTOR FOR THE SITE).

3. ELEVATIONS DEPICTED HEREON ARE REFERENCED TO NAVD88, DERIVED FROM THE ABOVE REFERENCED GPS SURVEY.

4. THE RIGHT-OF-WAY LINES ARE BASED ON PLAN REFERENCE 1, 2, 3, 11, AND 16.

5. ALL UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. OTHER UTILITIES MAY EXIST. CONTRACTOR TO FIELD VERIFY LOCATIONS AND ELEVATIONS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. TEST PITS ARE RECOMMENDED TO ENSURE ACCURATE LOCATIONS.

6. PLAN REFERENCES:

A. PLAN REFERENCE 1: BOUNDARY SURVEY PLAN PREPARED FOR ROLAND A. COLE, CHARLENE BAILY, ROXANE COLE, AND CHERYL COLE BY POST ROAD SURVEYING DATED JULY 29, 2009

B. PLAN REFERENCE 2: BOUNDARY SURVEY PLAN PREPARED FOR DENNIS J. TALLAGNON & BONNIE R. TALLAGNON BY POST ROAD SURVEYING DATED MARCH 26, 2010

C. PLAN REFERENCE 3: BOUNDARY SURVEY OF LAND OF RONALD D. PERRY, TRUSTEE, PREPARED FOR BY MET LIFE AUTO BY CIVIL CONSULTANTS, DATED JUNE 12, 2009

D. PLAN REFERENCE 11: PLAN OF OCEAN VIEW FARM, BY LIBBY & JOHNSON ENGINEERS, DATED JULY 1923

E. PLAN REFERENCE 16: PLAN SHOWING A BOUNDARY SURVEY FOR CARDINALI'S REAL ESTATE, LLC, PROPERTY LOCATED ON HARBOR ROAD AND DOCTOR'S CREEK, POST ROAD SURVEYING, DATED SEPTEMBER 9, 2014, LAST REVISED DECEMBER 2, 2017

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT OF ALL PROPOSED WORK AS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THIS PROVIDED LAYOUT INFORMATION THROUGHOUT THE COURSE OF CONSTRUCTION. REPORT ANY LAYOUT DISCREPANCIES IMMEDIATELY TO THE OWNER

PLANTING NOTES

1. ALL NEW PLANTING MATERIAL SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN ADDITION ALL NEW PLANT MATERIAL FOR THE PROJECT SHALL BE OF THE HIGHEST SPECIMEN QUALITY.

2. ALL NEW PLANTS SHALL BE BALLED AND BURLAPPED OR CONTAINER GROWN UNLESS OTHERWISE NOTED ON THE PLANT LIST.

3. THE GENERAL CONTRACTOR SHALL SUPPLY ALL NEW PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS.

4. THE GENERAL CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING AND REPORT ANY CONFLICTS TO THE ENGINEER.

5. NO TREES SHALL BE PLANTED BEFORE ACCEPTANCE OF ROUGH GRADING. TREES SHALL BEAR SAME RELATIONSHIP TO FINISH GRADE AS THEY BORE TO PREVIOUS GRADE.

6. STAKE LOCATION OF ALL PROPOSED PLANTING FOR APPROVAL BY THE LANDSCAPE ARCHITECT/ENGINEER PRIOR TO COMMENCEMENT OF PLANTING.

7. ALL EXISTING TREES TO REMAIN SHALL BE PROPERLY PROTECTED, PRUNED AND FERTILIZED PER THE SPECIFICATIONS.

8. ALL LAWN AREAS DISTURBED BY CONSTRUCTION OPERATIONS INSIDE AND OUTSIDE THE LIMIT OF WORK SHALL BE LOAMED AND SEEDED AS SPECIFIED.

9. ALL PLANT BEDS ARE TO RECEIVE THREE INCHES (3") OF SHREDDED BARK MULCH AS SPECIFIED.

10. ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE ONLY AS APPROVED BY THE LANDSCAPE ARCHITECT/ENGINEER.

11. ALL AREAS TO BE SEEDED SHALL RECEIVE SOIL PREPARATION AS SPECIFIED PRIOR TO SEEDING, UNLESS OTHERWISE NOTED ON PLAN.

12. PREPARE ALL TREE PITS WITH PLANTING SOIL TO A MINIMUM DEPTH MATCHING THE DEPTH OF TREE ROOT BALLS.

13. ALL AREAS TO BE SEEDED WITH LAWN MIX AND THE ROADSIDE MIX SHALL RECEIVE 6" TOPSOIL PRIOR TO SEEDING.

CIVIL ABBREVIATIONS

&	AND
Ø, DIA	DIAMETER
#, NO	NUMBER
APP'D	APPROVED
BLDG	BUILDING
CB	CATCH BASIN
CEN	CENTER
CFS	CUBIC FEET PER SECOND
CI	CAST IRON
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
CONC	CONCRETE
COR	CORNER
CY	CUBIC YARD
DEMO	DEMOLITION
DMH	DRAIN MANHOLE
DI	DUCTILE IRON
DR	DRAIN
DWG	DRAWING
EL	ELEVATION
EMH	ELECTRIC MANHOLE
FM	FORCE MAIN
FT	FEET
G	GAS
HYD	HYDRANT
IN	INCH
INF	INFLUENT
INV	INVERT
LBS	POUNDS
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MW	MONITORING WELL
N	NORTH
NGVD	NATIONAL GEODETIC VERTICAL DATUM
N/A	NOT AVAILABLE/APPLICABLE
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
PC	PERFORATED CLAY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PS	PRIMARY SLUDGE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REQ'D	REQUIRED
S	SLOPE, SEWER
SD	STORM DRAIN
SF	SQUARE FEET
SMH	SANITARY SEWER MANHOLE
SQ	SQUARE
STA	STATION
T, XFMR	TRANSFORMER
TBM	TEMPORARY BENCH MARK
THK	THICKNESS
TOS	TOP OF STRUCTURE
TYP	TYPICAL
UD	UNDERDRAIN
UG	UNDERGROUND
UGE	UNDERGROUND ELECTRIC
VC	VITRIFIED CLAY
W/	WITH
W	POTABLE WATER

LEGEND

EXISTING		PROPOSED
	PROPERTY/ROW LINE	
	SETBACK LINE	
	EASEMENT LINE	
	CENTERLINE	
	EDGE OF PAVEMENT	
	EDGE OF SIDEWALK	
	EDGE OF PATH	
	CURBING	
	EDGE OF GRAVEL	
	EDGE OF CONCRETE	
122	CONTOUR	123
	BUILDING	
	STONEWALL	
	TREELINE	
	CHAIN LINK FENCE	
	STOCKADE FENCE	
X X	BARB WIRE FENCE	X X
	RETAINING WALL	
	GUARDRAIL	
8" S S	SEWER	8"S
4" FM FM	SEWER FORCE MAIN	4"FM
4" G G	GAS	4"G
8" W W	WATER	8"W
15" SD SD	STORM DRAIN	15"SD
6" UD UD	UNDERDRAIN	6"UD
12" CMP	CULVERT	12" CMP
UGE UGE	UNDERGROUND ELECTRIC	UGE UGE
OHE OHE	OVERHEAD ELECTRIC	OHE OHE
UGT UGT	UNDERGROUND TELEPHONE	
CATV CATV	UNDERGROUND CABLE TV	
	IRON PIPE/REBAR	
	DRILLHOLE	
	MONUMENT	
	SURVEY CONTROL POINT	
x 124.6	SPOT ELEVATION	x 134.5
SMH	SEWER MANHOLE	SMH
DMH	DRAINAGE MANHOLE	DMH
CB CB CB	CATCH BASIN	CB CB
EMH	ELECTRIC MANHOLE	EMH
T TMH	TELEPHONE MANHOLE	TMH
	SHUTOFF VALVE	
	WATER SERVICE SHUTOFF	
	YARD HYDRANT	
	HYDRANT	
	GAS SERVICE SHUTOFF	
G	GAS GATE VALVE	
	UTILITY POLE	
	UTILITY POLE W/ GUY	
	UTILITY POLE W/ LIGHT	
	LIGHT POLE	
	BOLLARD	
	FLAGPOLE	
	CONIFEROUS TREE	
	DECIDUOUS TREE	
	SHRUB	
	WETLAND FLAG	
	EDGE OF WATER	
	STREAM	
	EDGE OF WETLANDS	
	FLOODPLAIN	
	WETLANDS	
	DRAINAGE FLOW	
	DRAINAGE SWALE	
	PAVEMENT MARKINGS	
	SIGN	
MB	MAILBOX	
	TEMPORARY BENCH MARK	
TP	TEST PIT	
B	TEST BORING	
P	TEST PROBE	
MW	MONITORING WELL	
	LIMIT OF WORK	
	SILT FENCE	
	RIPRAP	
	RAILROAD	
	MATCHLINE	
	ROCK OUTCROP	
	FILL LINE	F
	CUT LINE	C

NO	SUBMISSIONS/REVISIONS	APP'D	DATE
	FINAL PSE REVIEW	J.WIE	10/20
1			
2			
3			
4			

DESIGNED BY: M.GUE
CAD COORD: M.LAP
CAD: M.LAP
CHECKED BY: M.GUE
DATE: 10-09-2020
APPROVED BY: J.WIE
DATE: 10-09-2020
PROJECT NO: 20067A

WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

TOWN OF WELLS
HARBOR ROAD PEDESTRIAN IMPROVEMENTS
WELLS, MAINE

GENERAL NOTES, LEGEND AND ABBREVIATIOSN

DRAWING
C-1

OVERVIEW PLAN
SCALE: 1"=150'

NO	SUBMISSIONS/REVISIONS	APP'D	DATE
	FINAL PSE REVIEW	J.WIE	10/20

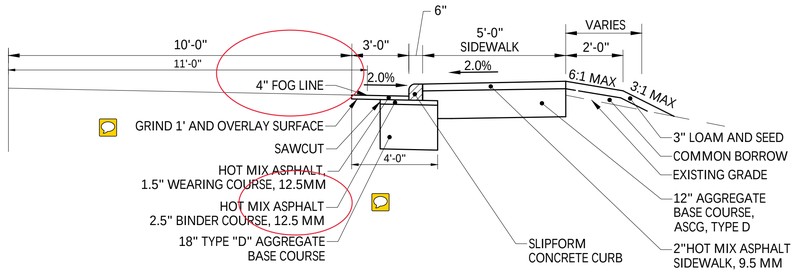
DESIGNED BY:_M.GUE
CAD COORD:_M.LAP
CAD:_M.LAP
CHECKED BY:_M.GUE
DATE:_10-09-2020
APPROVED BY:_J.WIE
DATE:_10-09-2020
PROJECT NO:_20067A

WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

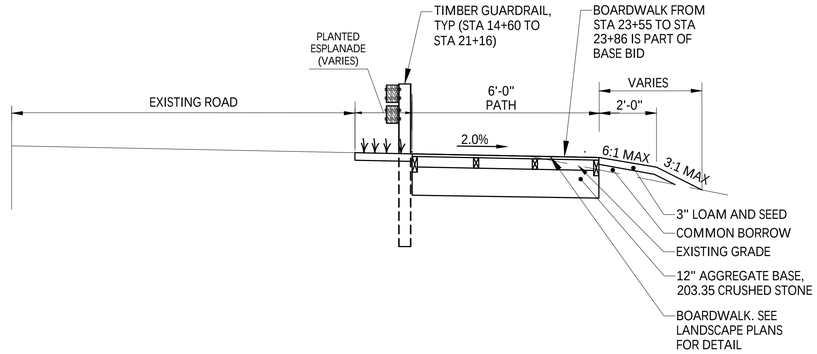
TOWN OF WELLS
HARBOR ROAD PEDESTRIAN IMPROVEMENTS
WELLS, MAINE

OVERVIEW PLAN

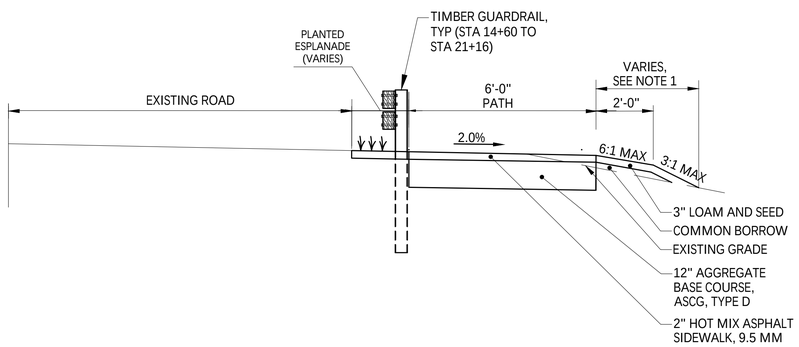
DRAWING
C-2



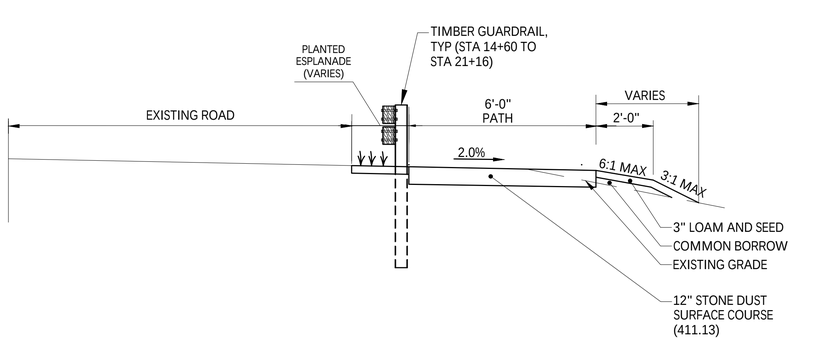
HARBOR ROAD SIDEWALK TYPICAL SECTION
(STA 3+00 TO STA 14+60)
NTS



HARBOR ROAD EAST PATH TYPICAL SECTION
BASE BID (STA 23+55 TO STA 23+86)
ALTERNATE BID A (STA 14+60 TO STA 23+55 AND STA 23+86 TO STA 40+00)
NTS



HARBOR ROAD EAST PATH TYPICAL SECTION (BASE BID)
(STA 14+60 TO STA 23+55 AND STA 23+86 TO STA 40+00)
NTS



HARBOR ROAD EAST PATH TYPICAL SECTION (ALTERNATE BID B)
(STA 14+60 TO STA 23+55 AND STA 23+86 TO STA 40+00)
NTS

NO	SUBMISSIONS/REVISIONS	APP'D	DATE
1	FINAL PSE REVIEW	J.WIE	10/20
2			
3			
4			
5			

DESIGNED BY:.. M.GUE
CAD COORD:.. M.LAP
CAD:.. M.LAP
CHECKED BY:.. M.GUE
DATE:.. 10-09-2020
APPROVED BY:.. J.WIE
DATE:.. 10-09-2020
PROJECT NO:.. 20067A

WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

TOWN OF WELLS
HARBOR ROAD PEDESTRIAN IMPROVEMENTS
WELLS, MAINE

TYPICAL SECTIONS

DRAWING
C-3

EROSION AND SEDIMENTATION CONTROL NOTES

THIS PLAN HAS BEEN DEVELOPED AS A STRATEGY TO CONTROL SOIL EROSION AND SEDIMENTATION DURING AND AFTER CONSTRUCTION. THIS PLAN IS BASED ON THE STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION IN DEVELOPING AREAS IN ACCORDANCE WITH OCTOBER 2016 REVISION TO THE 2003 MAINE EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPS) MANUAL FOR DESIGNERS AND ENGINEERS.

THE PROPOSED LOCATIONS OF SILTATION AND EROSION CONTROL STRUCTURES ARE SHOWN ON THE SITE PLAN.

1. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE DONE IN ACCORDANCE WITH 2014 REVISION TO THE 2003 MAINE EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONTRACTORS. ALL TEMPORARY MEASURES SHALL NOT BE REMOVED UNTIL SITE IS FULLY STABILIZED.
2. IN AREAS ADJACENT TO NATURAL RESOURCES, LOCATIONS TO BE VEGETATED IN THEIR FINISH CONDITION SHALL BE STABILIZED WITH MULCH WITHIN 7 DAYS OF DISTURBANCE.
3. AREAS THAT WILL NOT RECEIVE FINAL GRADING FOR UP TO ONE YEAR SHALL BE STABILIZED WITH MULCH WITHIN 7 DAYS OF DISTURBANCE
4. THOSE AREAS UNDERGOING ACTUAL CONSTRUCTION WILL BE MAINTAINED IN AN UNTREATED OR UNVEGETATED CONDITION FOR THE MINIMUM TIME REQUIRED. IN GENERAL AREAS TO BE VEGETATED SHALL BE PERMANENTLY STABILIZED WITHIN 15 DAYS OF FINAL GRADING AND TEMPORARILY STABILIZED WITHIN 30 DAYS OF INITIAL DISTURBANCE OF THE SOIL.
5. SEDIMENT BARRIERS (SILT FENCE, STONE CHECK DAMS, ETC.) SHOULD BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF UPGRADIENT DRAINAGE AREAS.
6. INSTALL SILT FENCE AT TOE OF SLOPES TO FILTER SILT FROM RUNOFF. SEE SILT FENCE DETAIL FOR PROPER INSTALLATION. SILT FENCE WILL REMAIN IN PLACE PER NOTE #5.
7. ALL EROSION CONTROL STRUCTURES WILL BE INSPECTED, REPLACED AND/OR REPAIRED EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT OR WHEN NO LONGER SERVICEABLE DUE TO SEDIMENT ACCUMULATION OR DECOMPOSURE. IF REPAIRS ARE IDENTIFIED, THEY SHALL BEGIN NO LATER THAN THE END OF THE FOLLOWING WORK DAY AND BE COMPLETE WITHIN 7 DAYS FROM INSPECTION. SEDIMENT DEPOSITS MUST BE REMOVED WHEN THEY REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPSLOPE ARE PERMANENTLY STABILIZED.
8. NO SLOPES, EITHER PERMANENT OR TEMPORARY, SHALL BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2 TO 1) UNLESS STABILIZED WITH RIPRAP OR OTHER STRUCTURAL MEANS. NO SLOPES IN EXCESS OF 1.5H:1V SHALL BE ALLOWED.
9. IF FINAL SEEDING AND SODDING IS NOT EXPECTED PRIOR TO THE ANTICIPATED DATE OF THE FIRST KILLING FROST, USE TEMPORARY ANNUAL RYEGRASS SEEDING AND MULCHING ON ROUGH GRADED SUBSOIL TO PROTECT THE SITE AND DELAY PERMANENT LOAMING, FINE GRADING, AND SEEDING OR SODDING UNTIL SPRING.
10. WHEN FEASIBLE, TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINISH GRADED SHALL BE COMPLETED 30 DAYS PRIOR TO THE FIRST KILLING FROST.
11. DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT WILL BE RETURNED TO THE SITE AND REGRADED ONTO OPEN AREAS. POST SEEDING SEDIMENT, IF ANY, WILL BE DISPOSED OF IN AN ACCEPTABLE MANNER.
12. REVEGETATION MEASURES WILL COMMENCE UPON COMPLETION OF CONSTRUCTION EXCEPT AS NOTED ABOVE. ALL DISTURBED AREAS NOT OTHERWISE STABILIZED WILL BE GRADED, SMOOTHED, AND REVEGETATED.
13. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE SITE IS STABILIZED.
14. EXCAVATION AND EARTHWORK SHALL BE DONE SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME.
15. EXPOSED AREA SHOULD BE LIMITED SUCH THAT THE AREA CAN BE MULCHED IN ONE DAY PRIOR TO ANY SNOW EVENT.
16. STABILIZATION SCHEDULE BEFORE WINTER:

SEPTEMBER 15	ALL DISTURBED AREAS MUST BE SEEDED AND MULCHED. ALL SLOPES MUST BE STABILIZED, SEEDED AND MULCHED. SLOPES 3:1 OR GREATER TO BE STABILIZED WITH EROSION CONTROL MATTING AND SEEDED. ALL DISTURBED AREAS TO BE PROTECTED WITH AN ANNUAL GRASS MUST BE SEEDED AT A SEEDING RATE OF 3 POUNDS PER 1,000 SQUARE FEET AND MULCHED.
OCTOBER 1	ALL GRASS-LINED DITCHES AND CHANNELS MUST BE STABILIZED WITH MULCH OR EROSION CONTROL BLANKET.
NOVEMBER 15	ALL STONE-LINED DITCHES AND CHANNELS MUST BE CONSTRUCTED AND STABILIZED. SLOPES THAT ARE COVERED WITH RIPRAP MUST BE CONSTRUCTED BY THAT DATE.
DECEMBER 1	ALL DISTURBED AREAS WHERE THE GROWTH OF VEGETATION FAILS TO BE AT LEAST THREE INCHES TALL OR AT LEAST 75% OF THE DISTURBED SOIL IS COVERED BY VEGETATION, MUST BE PROTECTED FOR OVER-WINTER.

17. SEDIMENT BARRIERS SHALL BE INSTALLED DOWNGRADIENT OF STOCKPILES, AND STORMWATER SHALL BE PREVENTED FROM RUNNING ONTO THE STOCKPILES.
18. CONTRACTOR SHALL MAINTAIN ALL STABILIZED CONSTRUCTION ENTRANCES UNTIL ALL DISTURBED AREAS ARE STABILIZED.
19. MULCH MAY REQUIRE ANCHORING TO ENSURE THAT MULCH REMAINS IN-PLACE. MULCH NETTING, CRIMPING, OR PUNCHING ARE ACCEPTABLE METHODS. MULCH NETTING SHALL BE TENAX RADIX EROSION CONTROL NETS OR APPROVED EQUAL, AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS.
20. SPILL PREVENTION: CONTROLS MUST BE USED TO PREVENT POLLUTANTS FROM BEING DISCHARGED FROM MATERIALS AND EQUIPMENT ON-SITE, INCLUDING STORAGE PRACTICES TO MINIMIZE EXPOSURE OF THE MATERIALS TO STORMWATER, AND APPROPRIATE SPILL PREVENTION, CONTAINMENT, AND RESPONSE PLANNING AND IMPLEMENTATION.
21. GROUNDWATER PROTECTION: DURING CONSTRUCTION, LIQUID PETROLEUM PRODUCTS AND OTHER HAZARDOUS MATERIALS WITH THE POTENTIAL TO CONTAMINATE GROUNDWATER MAY NOT BE STORED OR HANDLED IN AREAS OF THE SITE DRAINING TO AN INFILTRATION AREA. AN "INFILTRATION AREA" IS ANY AREA OF THE SITE THAT BY DESIGN OR AS A RESULT OF SOILS, TOPOGRAPHY AND OTHER RELEVANT FACTORS, ACCUMULATES RUNOFF THAT INFILTRATES INTO THE SOIL. DIKES, BERMS, SUMPS, AND OTHER FORMS OF SECONDARY CONTAINMENT THAT PREVENT DISCHARGE TO GROUNDWATER MAY BE USED TO ISOLATE PORTIONS OF THE SITE FOR THE PURPOSES OF STORAGE AND HANDLING OF THESE MATERIALS.
22. MINIMIZE THE EXPOSURE OF CONSTRUCTION DEBRIS, BUILDING AND LANDSCAPING MATERIALS, TRASH, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS TO PRECIPITATION AND STORMWATER RUNOFF. THESE MATERIALS MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE.
23. EXCAVATION DE-WATERING IS THE REMOVAL OF WATER FROM TRENCHES, FOUNDATIONS, COFFER DAMS, PONDS, AND OTHER AREAS WITHIN THE CONSTRUCTION AREA THAT RETAIN WATER AFTER EXCAVATION. IN MOST CASES THE COLLECTED WATER IS HEAVILY SILTED AND HINDERS CORRECT AND SAFE CONSTRUCTION PRACTICES. THE COLLECTED WATER REMOVED FROM THE PONDED AREA, EITHER THROUGH GRAVITY OR PUMPING, MUST BE SPREAD THROUGH NATURAL WOODED BUFFERS OR REMOVED TO AREAS THAT ARE SPECIFICALLY DESIGNED TO COLLECT THE MAXIMUM AMOUNT OF SEDIMENT POSSIBLE, LIKE A COFFERDAM SEDIMENTATION BASIN. AVOID ALLOWING THE WATER TO FLOW OVER DISTURBED AREAS OF THE SITE. EQUIVALENT MEASURES MAY BE TAKEN IF APPROVED BY THE DEPARTMENT.
24. AUTHORIZED NON-STORMWATER DISCHARGES: IDENTIFY AND PREVENT CONTAMINATION BY NON-STORMWATER DISCHARGES. WHERE ALLOWED NON-STORMWATER DISCHARGES EXIST, THEY MUST BE IDENTIFIED AND STEPS SHOULD BE TAKEN TO ENSURE THE IMPLEMENTATION OF APPROPRIATE POLLUTION PREVENTION MEASURES FOR THE NON-STORMWATER COMPONENT(S) OF THE DISCHARGE. AUTHORIZED NON-STORMWATER DISCHARGES ARE:
    - A. DISCHARGES FROM FIREFIGHTING ACTIVITY;
    - B. FIRE HYDRANT FLUSHINGS;
    - C. VEHICLE WASHWATER IF DETERGENTS ARE NOT USED AND WASHING IS LIMITED TO THE EXTERIOR OF VEHICLES (ENGINE, UNDERCARRIAGE AND TRANSMISSION WASHING IS PROHIBITED);
    - D. DUST CONTROL RUNOFF IN ACCORDANCE WITH PERMIT CONDITIONS;
    - E. ROUTINE EXTERNAL BUILDING WASHDOWN, NOT INCLUDING SURFACE PAINT REMOVAL, THAT DOES NOT INVOLVE DETERGENTS;
    - F. PAVEMENT WASHWATER (WHERE SPILLS/LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED, UNLESS ALL SPILLED MATERIAL HAD BEEN REMOVED) IF DETERGENTS ARE NOT USED;
    - G. UNCONTAMINATED AIR CONDITIONING OR COMPRESSOR CONDENSATE;
    - H. UNCONTAMINATED GROUNDWATER OR SPRING WATER;
    - I. FOUNDATION OR FOOTER DRAIN-WATER WHERE FLOWS ARE NOT CONTAMINATED;
    - J. UNCONTAMINATED EXCAVATION DEWATERING;
    - K. POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHINGS; AND
    - L. LANDSCAPE IRRIGATION.
25. UNAUTHORIZED NON-STORMWATER DISCHARGES: THE MAINEDEP'S APPROVAL UNDER THIS CHAPTER DOES NOT AUTHORIZE A DISCHARGE THAT IS MIXED WITH A SOURCE OF NON_STORMWATER, OTHER THAN THOSE DISCHARGES IN COMPLIANCE WITH APPENDIX C (6). SPECIFICALLY, THE DEPARTMENT'S APPROVAL DOES NOT AUTHORIZE DISCHARGES OF THE FOLLOWING:
    - A. WASTEWATER FROM THE WASHOUT OR CLEANOUT OF CONCRETE, STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS OR OTHER CONSTRUCTION MATERIALS;
    - B. FUELS, OILS OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE;
    - C. SOAPS, SOLVENTS, OR DETERGENTS USED IN VEHICLE AND EQUIPMENT WASHING; AND
    - D. TOXIC OR HAZARDOUS SUBSTANCES FROM A SPILL OR OTHER RELEASE.

EROSION CONTROL - WINTER CONSTRUCTION

1. WINTER CONSTRUCTION PERIOD DEFINED: NOVEMBER 1 THROUGH APRIL 15.
2. CONTINUATION OF EARTHWORK OPERATIONS ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED SUCH THAT NO LARGER AREA OF THE SITE IS WITHOUT EROSION CONTROL PROTECTION AS LISTED IN ITEM 2 ABOVE.
3. AN AREA SHALL BE CONSIDERED TO HAVE BEEN STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH STRAW AT A RATE OF 100 LB. PER 1,000 SQUARE FEET (WITH OR WITHOUT SEEDING) OR DORMANT SEEDED, MULCHED AND ADEQUATELY ANCHORED BY AN APPROVED ANCHORING TECHNIQUE. IN ALL CASES, MULCH SHALL BE APPLIED SUCH THAT SOIL SURFACE IS NOT VISIBLE THROUGH THE MULCH.
4. BETWEEN THE DATES OF OCTOBER 15 AND APRIL 1ST, LOAM OR SEED WILL NOT BE REQUIRED. DURING PERIODS OF ABOVE-FREEZING TEMPERATURES, THE SLOPES SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEEDED AND MULCHED UNTIL SUCH TIME AS THE FINAL TREATMENT CAN BE APPLIED. IF THE DATE IS AFTER NOVEMBER 1ST AND IF THE EXPOSED AREA HAS BEEN LOAMED, FINAL GRADED AND IS SMOOTH, THEN THE AREA MUST BE STABILIZED WITH MULCH. IF CONSTRUCTION CONTINUES DURING FREEZING WEATHER, ALL EXPOSED AREAS SHALL BE GRADED BEFORE FREEZING AND THE SURFACE TEMPORARILY PROTECTED FROM EROSION BY THE APPLICATION OF MULCH. SLOPES SHALL NOT BE LEFT EXPOSED OVER THE WINTER OR ANY OTHER EXTENDED TIME OF WORK SUSPENSION UNLESS TREATED IN THE ABOVE MANNER. UNTIL SUCH TIME AS WEATHER CONDITIONS ALLOW DITCHES TO BE FINISHED WITH THE PERMANENT SURFACE TREATMENT, EROSION SHALL BE CONTROLLED BY THE INSTALLATION OF BALES OF HAY OR STONE CHECK DAMS IN ACCORDANCE WITH THE STANDARD DETAILS.
5. THE APPLICATION OF MULCH TO FINE GRADED AREAS WILL BE STABILIZED AS FOLLOWS:
    - A. BETWEEN THE DATES OF NOVEMBER 1ST AND APRIL 15TH ALL MULCH SHALL BE ANCHORED BY EITHER PEG LINE, MULCH NETTING, ASPHALT EMULSION, CHEMICAL TACK OR WOOD CELLULOSE FIBER.
    - B. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3% FOR SLOPES EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GRATER THAN 8%. THIS SHALL BE IN ADDITION TO EROSION CONTROL MATTING-DITCHES DETAIL.
    - C. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 15%. AFTER OCTOBER 1ST, THE SAME APPLIES FOR ALL SLOPES GREATER THAN 8%.
8. AFTER NOVEMBER 1ST THE CONTRACTOR SHALL APPLY MULCH AND ANCHORING ON ALL BARE EARTH AT THE END OF EACH WORKING DAY.
9. DURING WINTER CONSTRUCTION PERIODS ALL SNOW SHALL BE REMOVED FROM AREAS OF MULCHING PRIOR TO PLACEMENT.
10. THE INSPECTION FREQUENCY FOR WINTER CONSTRUCTION SHALL BE AFTER EACH RAINFALL, SNOWSTORM, OR THAWING, AND AT LEAST ONCE A WEEK.

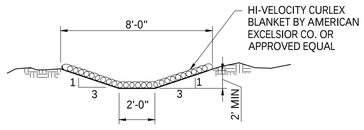
EROSION CONTROL - WETLAND NOTES

1. WETLANDS AND SURFACE WATERS (EXCEPTING THOSE WHICH ARE TO BE FILLED IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS) WILL BE PROTECTED WITH SILT FENCE INSTALLED AT THE EDGE OF THE WETLAND OR THE BOUNDARY OF WETLAND DISTURBANCE.
2. IF THE WORK INCLUDES CROSSING OF WETLANDS AND/OR STREAMS, THE CONTRACTOR SHALL TAKE SPECIAL PRECAUTIONS WORKING IN THESE AREAS.
3. ANY WETLAND CROSSING WORK SHALL BE COMPLETED BETWEEN THE PERIOD OF MAY 1 AND SEPTEMBER 30.
4. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING CONSTRUCTION WITHIN OR ADJACENT TO WETLAND AREAS. ALL TEMPORARY MEASURES SHALL NOT BE REMOVED UNTIL SITE IS FULLY STABILIZED.
5. WETLAND VEGETATIVE LAYERS SHALL BE REMOVED AND SALVAGED FOR RESTORATION OF THE DISTURBED AREAS.
6. STORAGE AREAS FOR WETLAND MATERIALS SHALL BE PROPERLY PROTECTED AGAINST EROSION.
7. SEEDING OF THE DISTURBED AREAS WITHIN WETLAND AREAS SHALL UTILIZE MIXTURES APPROPRIATE FOR WETLAND AREAS AS OUTLINED IN THE SPECIFICATIONS.

INSPECTIONS

REGULAR INSPECTIONS OF ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE MADE AT LEAST WEEKLY AND PRIOR TO AND FOLLOWING STORM EVENTS. MINIMUM INSPECTIONS SHALL BE MADE AS LISTED IN THE TABLE BELOW. SEE INSPECTIONS, MAINTENANCE AND HOUSEKEEPING PLAN FOR ADDITIONAL INFORMATION.

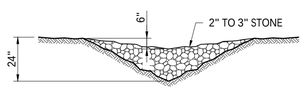
INSPECTED ITEM	EXAMPLE REPAIR INDICATORS
MULCHED SURFACES	THIN MULCH OR INADEQUATE APPLICATION. WIND MOVEMENT
SEEDED SURFACES	POOR SEED GERMINATION. LOSS OF MULCH. DEVELOPMENT OF RIVULETS.
SEDIMENT BARRIER	SEDIMENT BUILD-UP TO ONE HALF THE HEIGHT OF THE BARRIER. UNDERMINING OF THE BARRIER. SUPPORTING STAKES LOOSE, TOPPLED OR UNMARKED. BREAKS IN BARRIER.
PERIMETER DIVERSION	DISCHARGE IS TO STABILIZED AREA. EROSION OR BREAKS IN BARRIER. SUPPORTING STAKES LOOSE, TOPPLED OR UNMARKED.
CATCH BASIN PROTECTION	SEDIMENT BUILD-UP AND STRUCTURE BLOCKAGES. SLOW FLOW/PONDING WATER. BREAKS IN FABRIC OR VOIDS IN BARRIER.
DEWATERING FILTER	BREAKS IN FABRIC OR SUPPORTING STRUCTURE. SLOW FLOW, INDICATING HIGH SEDIMENT BUILD-UP.
CONSTRUCTION ENTRANCE	SEDIMENTATION OF ROADWAYS. OFF-SITE DUST COMPLAINTS.



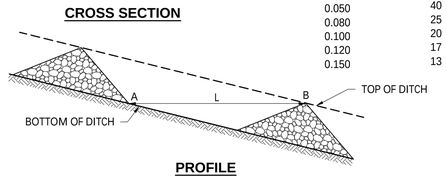
NOTE:
1. PROVIDE FOR ALL DRAINAGE SWALES. ADDITIONAL REQUIREMENTS MAY APPLY. SEE EROSION CONTROL - WINTER CONSTRUCTION NOTE 7.

EROSION CONTROL MATTING - DITCHES

SCALE: "NTS"



CROSS SECTION

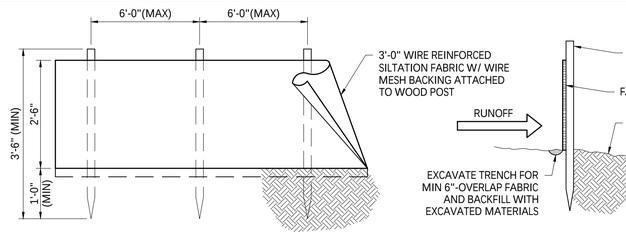


PROFILE

DITCH SLOPE (FT/FT)	L (FT)
0.020	100
0.030	66
0.040	50
0.050	40
0.080	25
0.100	20
0.120	17
0.150	13

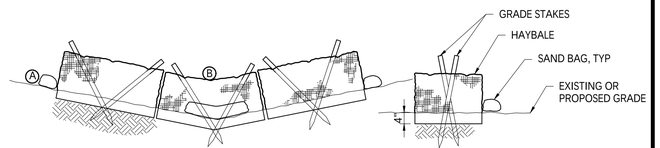
STONE CHECK DAM DETAIL

SCALE: NTS

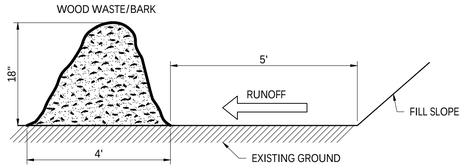


SILT FENCE INSTALLATION DETAIL

SCALE: NTS



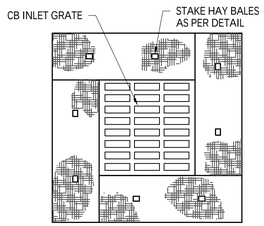
EROSION CHECK TO BE BALES OF HAY SECURED TO THE GROUND WITH TWO 4' LONG GRADE STAKES FOR EACH BALE. SAND BAG AS REQUIRED, PLACE SUFFICIENT BALES TO ESTABLISH ELEVATIONS AT Ⓐ AT LEAST 6 INCHES ABOVE OVERFLOW AT Ⓑ



NOTES:
1. EROSION CONTROL MIX SHOULD CONTAIN A WELL-GRADED MIXTURE OF PARTICLE SIZES AND MAY CONTAIN ROCKS LESS THAN 4" IN DIAMETER. EROSION CONTROL MIX SHOULD BE FREE OF REFUSE, PHYSICAL CONTAMINANTS, AND MATERIAL TOXIC TO PLANT GROWTH SUCH AS FLY ASH OR YARD SCRAPING. LARGE PORTIONS OF SILTS, CLAYS OR FINE SANDS ARE NOT ACCEPTABLE IN THE MIX. THE MIX COMPOSITION SHOULD MEET THE FOLLOWING STANDARDS:
    - A. THE ORGANIC MATTER CONTENT SHOULD BE BETWEEN 80% AND 100%, DRY WEIGHT BASIS.
    - B. PARTICLE SIZE BY WEIGHT SHOULD BE 100% PASSING A 6" SCREEN AND 70% TO 85% PASSING A 0.75" SCREEN.
    - C. THE ORGANIC PORTION NEEDS TO BE FIBROUS AND ELONGATED.
    - D. SOLUBLE SALTS CONTENT SHALL BE < 4.0 MMHOS/CM.
    - E. THE PH SHOULD BE BETWEEN 5.0 AND 8.0.
2. DO NOT USE ECM BERM AT BASE OF SLOPES 8% OR GREATER.

EROSION CONTROL MULCH BERM

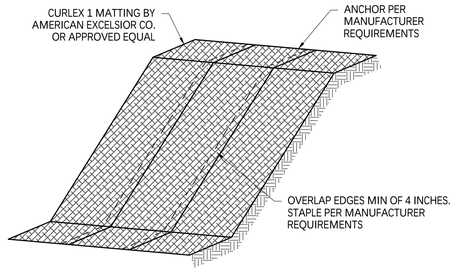
SCALE: "NTS"



NOTE:
EMBED HAYBALES MINIMUM OF 4".

HAY BALE CB INLET PROTECTION

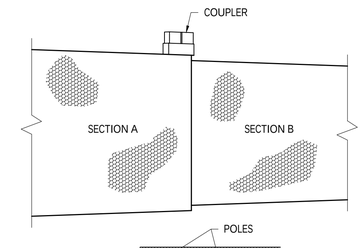
SCALE: "NTS"

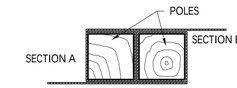


NOTE:
INSTALL ON SLOPES 3:1 OR GREATER

EROSION CONTROL MATTING - SLOPES

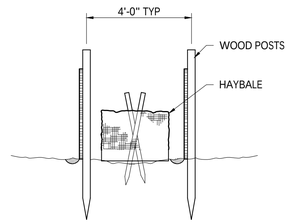
SCALE: "NTS"





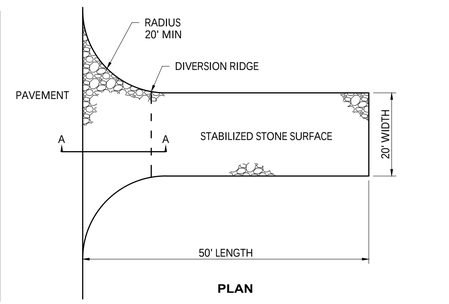
JOINING SILT FENCE SECTIONS

SCALE: "NTS"

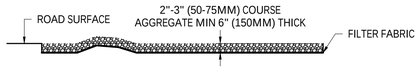


COMBINATION SILT FENCE AND HAY BALE BARRIER

SCALE: NTS



PLAN



SECTION A-A

(TEMPORARY, TO BE REMOVED PRIOR TO FINAL SITE PAVING)

STABILIZED CONSTRUCTION ENTRANCE

SCALE: "NTS"

NO	SUBMISSIONS/REVISIONS	APP'D	DATE
	FINAL PSE REVIEW	J.WIE	10/20

DESIGNED BY:.. M.GUE
CAD COORD:.. M.LAP
CAD:.. M.LAP
CHECKED BY:.. M.GUE
DATE:.. 10-09-2020
APPROVED BY:.. J.WIE
DATE:.. 10-09-2020
PROJECT NO:.. 20067A

WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

TOWN OF WELLS
HARBOR ROAD PEDESTRIAN IMPROVEMENTS
WELLS, MAINE

EROSION CONTROL NOTES AND DETAILS

DRAWING
C-4

PLAN
SCALE: 1"=20'

NO	SUBMISSIONS/REVISIONS	APP'D	DATE
	FINAL PSE REVIEW	J.WIE	10/20

DESIGNED BY: M.GUE
CAD COORD: M.LAP
CAD: M.LAP
CHECKED BY: M.GUE
DATE: 10-09-2020
APPROVED BY: J.WIE
DATE: 10-09-2020
PROJECT NO.: 20067A

WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

TOWN OF WELLS
HARBOR ROAD PEDESTRIAN IMPROVEMENTS
WELLS, MAINE

EXISTING CONDITIONS AND DEMOLITION PLAN
STA 0+00 TO STA 5+50

DRAWING
C-5

LAST SAVED BY: MATT.LAPIERRE 10/5/2020 3:32 PM

J:\ENGINEER\WELLS\20067-HARBORRDPLAPPROJECT\DRAWINGS\CIVIL\20067A EXISTING.DWG | 20067a Existing (4) | 1:10.123456777 | --- | 10/7/2020 2:16:22 PM | MATT.LAPIERRE

NO	SUBMISSIONS/REVISIONS	APP'D	DATE
	FINAL PSE REVIEW	J.WVIE	10/20
1			
2			
3			
4			

DESIGNED BY:.. M.GUE
CAD COORD:.. M.LAP
CAD:.. M.LAP
CHECKED BY:.. M.GUE
DATE:.. 10-09-2020
APPROVED BY:.. J.WVIE
DATE:.. 10-09-2020
PROJECT NO:.. 20067A

WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

TOWN OF WELLS
HARBOR ROAD PEDESTRIAN IMPROVEMENTS
WELLS, MAINE

EXISTING CONDITIONS AND DEMOLITION PLAN
STA 5+50 TO STA 11+50

DRAWING
C-6

PLAN
SCALE: 1"=20'

0 20 40

N

HARBOR ROAD (ASPH. PAVEMENT)

MORISON AVENUE

TAX MAP 135, LOT 21
N/F FREDERICK D. RANDALL & MARY P. GEORGE
Y.C.R.D. 16865/395
(SEE PLANS 2 & 12)
(PLAN 11, LOT 66)

TAX MAP 135, LOT 21A
N/F PAUL D. & GLADYS A. JOHNSON
Y.C.R.D. 7852/80 & 82
(SEE PLANS 2 & 12)
(PLAN 11, LOT 66)

TAX MAP 135, LOT 22
N/F RUTHANN FOX
Y.C.R.D. 15714/842
(SEE PLAN 4)
(PLAN 11, LOT 58)

TAX MAP 135, LOT 22A
(OCEAN VIEW AVE. ON PLAN 11)

TAX MAP 135, LOT 33
N/F 51 HARBOR ROAD TRUST
Y.C.R.D. 16964/547
(PLAN 11, LOT 33)

TAX MAP 135, LOT 32
N/F EDWARD B. ARNOLD
Y.C.R.D. 16894/111
(PLAN 11, LOT 37)

TAX MAP 135, LOT 33
N/F 51 HARBOR ROAD TRUST
Y.C.R.D. 16964/547
(PLAN 11, LOT 35)

TAX MAP 135, LOT 28
N/F CHARLENE M. BAILEY, CHERYL & ROXANNE A. COLE
Y.C.R.D. 17025/565
(PLAN 11, LOT 49)

TAX MAP 135, LOT 28A
N/F CHERYL L. COLE
Y.C.R.D. 2480/137
(PLAN 11, LOT 51)

TAX MAP 135, LOT 27
N/F THE RONALD D. BERRY TRUST
Y.C.R.D. 13128/241
(PLAN 11, LOT 53)

PAVEMENT TO BE SAWCUT AND REMOVED, TYP

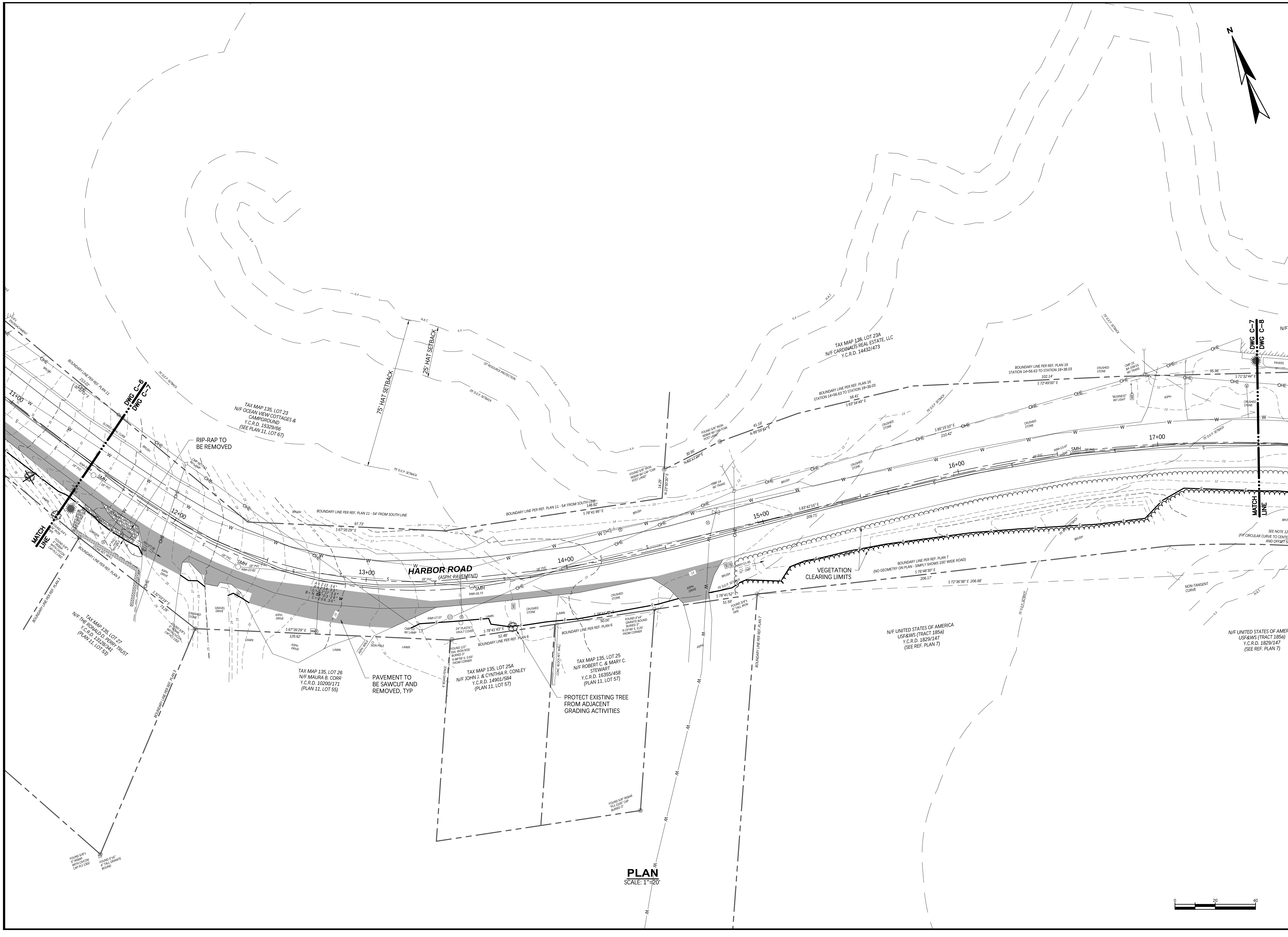
REMOVE EXISTING TREES

MATCH LINE

DWG C-5

DWG C-6

DWG C-7



TOWN OF WELLS
HARBOR ROAD PEDESTRIAN IMPROVEMENTS
WELLS, MAINE

EXISTING CONDITIONS AND DEMOLITION PLAN
STA 11+50 TO STA 17+50

WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

NO	SUBMISSIONS/REVISIONS	APP'D	DATE
	FINAL PSE REVIEW	J.WIE	10/20

DESIGNED BY: M.GUE
CAD COORD: M.LAP
CAD: M.LAP
CHECKED BY: M.GUE
DATE: 10-09-2020
APPROVED BY: J.WIE
DATE: 10-09-2020
PROJECT NO: 20067A

DRAWING
C-7

LAST SAVED BY: MATT.LAPIERRE 10/5/2020 3:32 PM

J:\ENGINEER\WELLS\20067-HARBORROD\PLAPPROJECT\DRAWINGS\CIV\20067A EXISTING.DWG | 20067a Existing IV | 1:10.12364677 | --- | 10/7/2020 2:16:32 PM | MATT.LAPIERRE

NO	SUBMISSIONS/REVISIONS	APP'D	DATE
	FINAL PSE REVIEW	J.WIE	10/20
1			
2			
3			
4			

DESIGNED BY:.. M.GUE
CAD COORD:.. M.LAP
CAD:.. M.LAP
CHECKED BY:.. M.GUE
DATE:.. 10-09-2020
APPROVED BY:.. J.WIE
DATE:.. 10-09-2020
PROJECT NO:.. 20067A

WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

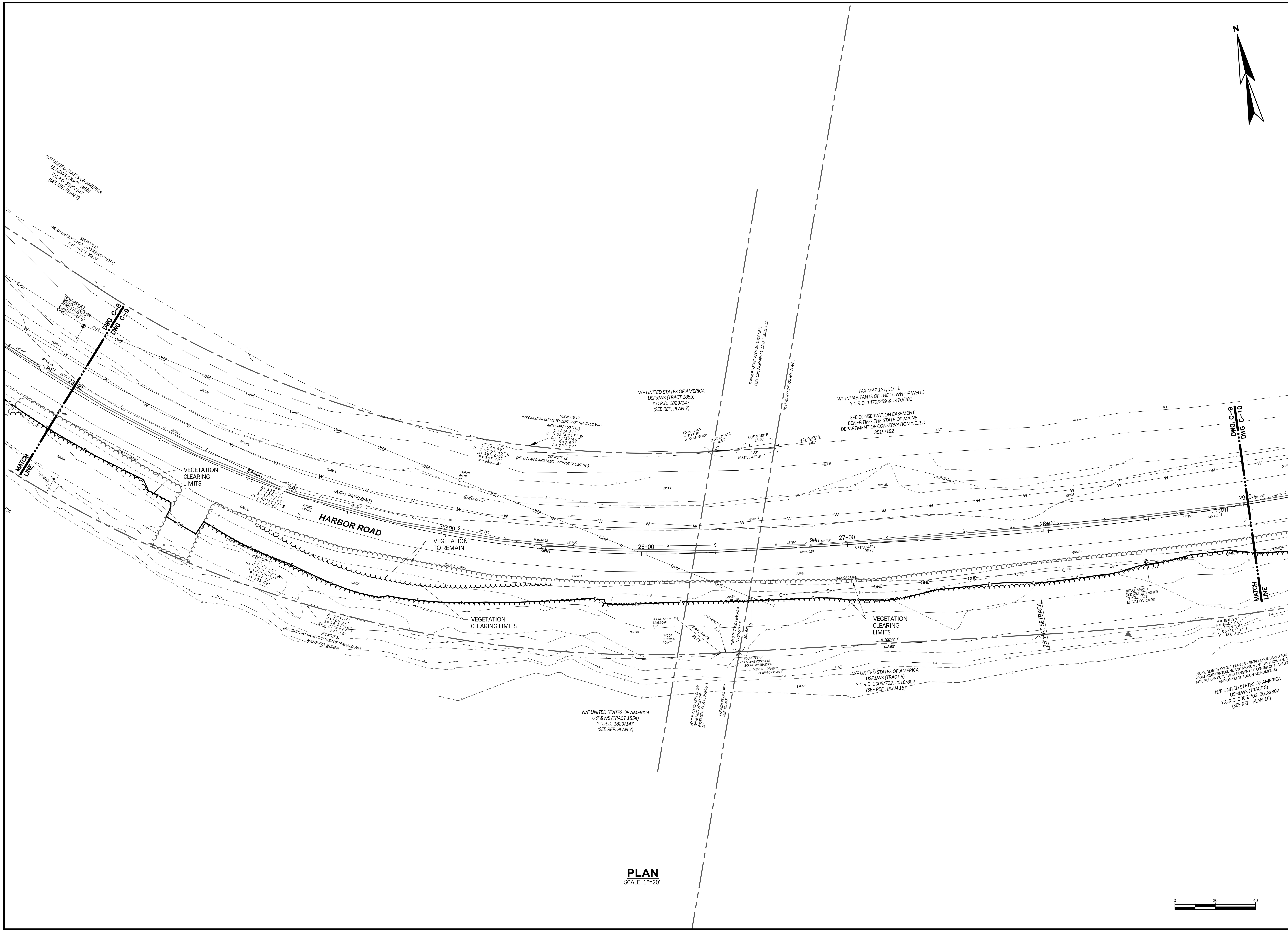
TOWN OF WELLS
HARBOR ROAD PEDESTRIAN IMPROVEMENTS
WELLS, MAINE

EXISTING CONDITIONS AND DEMOLITION PLAN
STA 17+50 TO STA 23+00

DRAWING
C-8

PLAN
SCALE: 1"=20'

0 20 40



NO	SUBMISSIONS/REVISIONS	APP'D	DATE
	FINAL PSE REVIEW	J.WIE	10/20

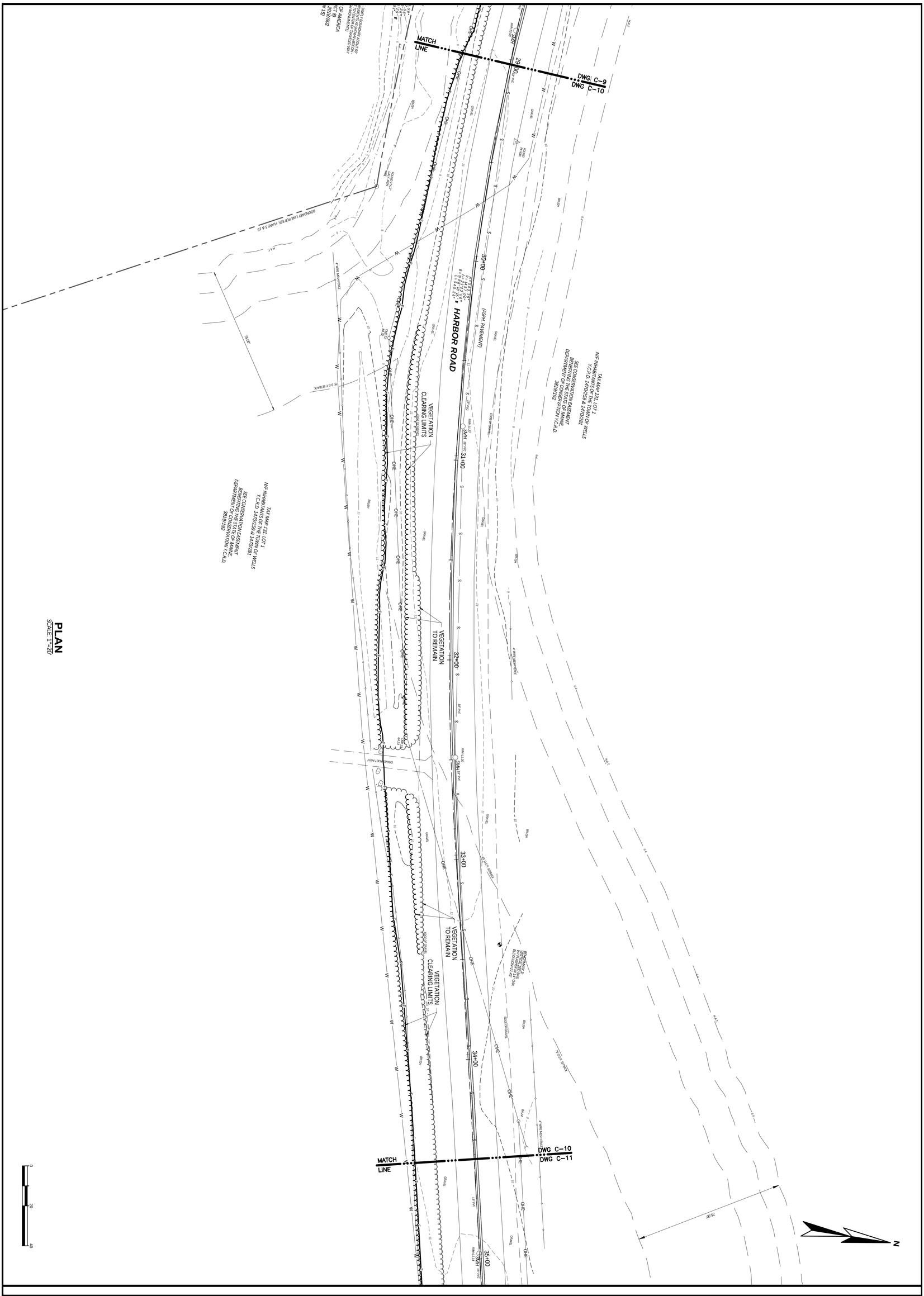
DESIGNED BY: M.GUE
CAD COORD: M.LAP
CAD: M.LAP
CHECKED BY: M.GUE
DATE: 10-09-2020
APPROVED BY: J.WIE
DATE: 10-09-2020
PROJECT NO: 20067A

WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

TOWN OF WELLS
HARBOR ROAD PEDESTRIAN IMPROVEMENTS
WELLS, MAINE

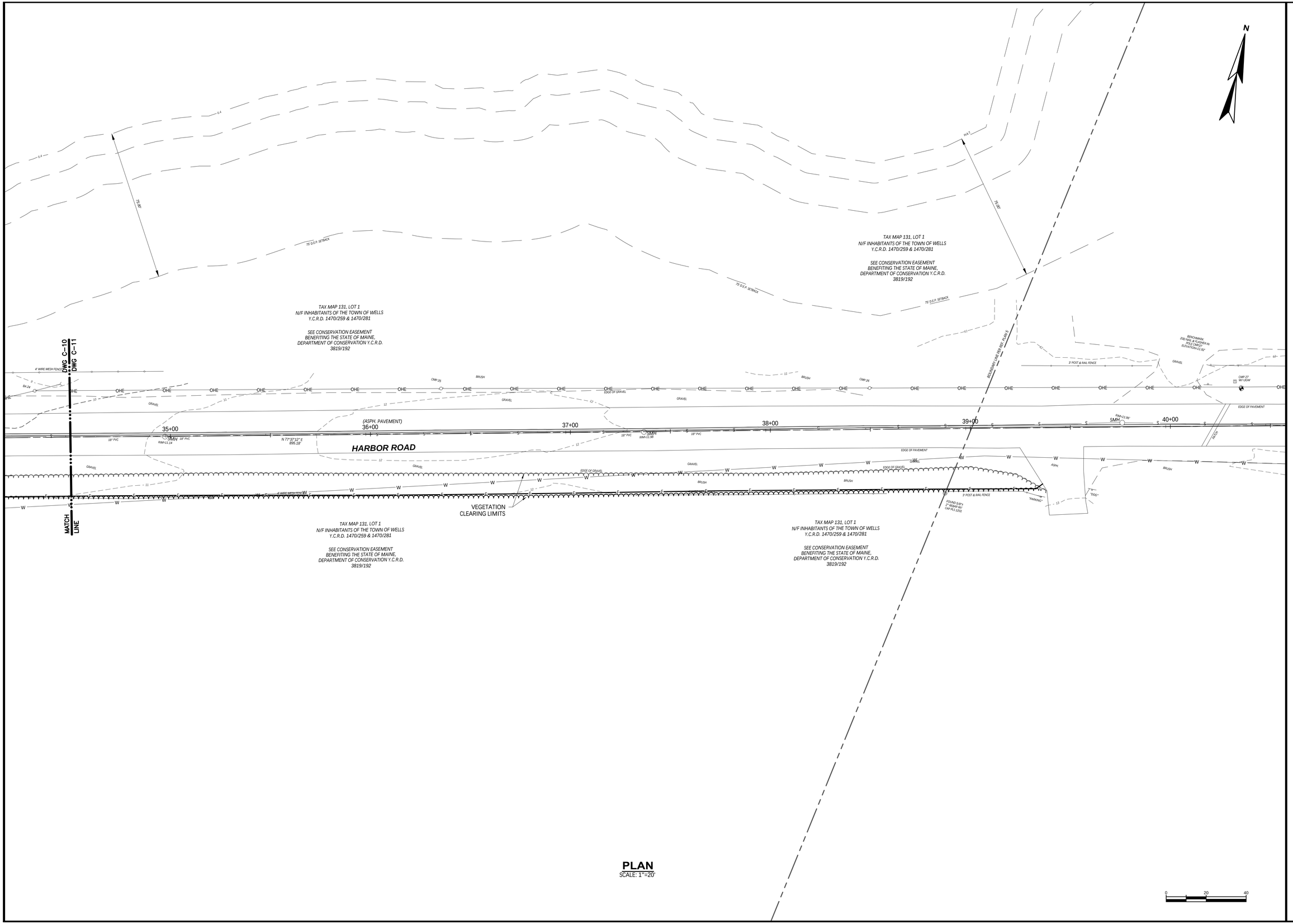
EXISTING CONDITIONS AND DEMOLITION PLAN
STA 23+00 TO STA 29+00

DRAWING
C-9



DRAWING C-10	TOWN OF WELLS HARBOR ROAD PEDESTRIAN IMPROVEMENTS WELLS, MAINE EXISTING CONDITIONS AND DEMOLITION PLAN STA 29+00 TO STA 34+50	WRIGHT-PIERCE Engineering a Better Environment 888.621.8156 | www.wright-pierce.com		DESIGNED BY: M.GUE CAD COORD: M.LAP CAD: M.LAP CHECKED BY: M.GUE DATE: 10-09-2020 APPROVED BY: J.WIE DATE: 10-09-2020 PROJECT NO: 20067A

NO	SUBMISSIONS/REVISIONS	APP'D	DATE
	FINAL PSE REVIEW	J.WIE	10/20
1			
2			
3			
4			



PLAN
SCALE: 1"=20'

NO	SUBMISSIONS/REVISIONS	APP'D	DATE
	FINAL PSE REVIEW	J.WIE	10/20
1			
2			
3			
4			

DESIGNED BY: M.GUE
CAD COORD: M.LAP
CAD: M.LAP
CHECKED BY: M.GUE
DATE: 10-09-2020
APPROVED BY: J.WIE
DATE: 10-09-2020
PROJECT NO: 20067A

WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

TOWN OF WELLS
HARBOR ROAD PEDESTRIAN IMPROVEMENTS
WELLS, MAINE

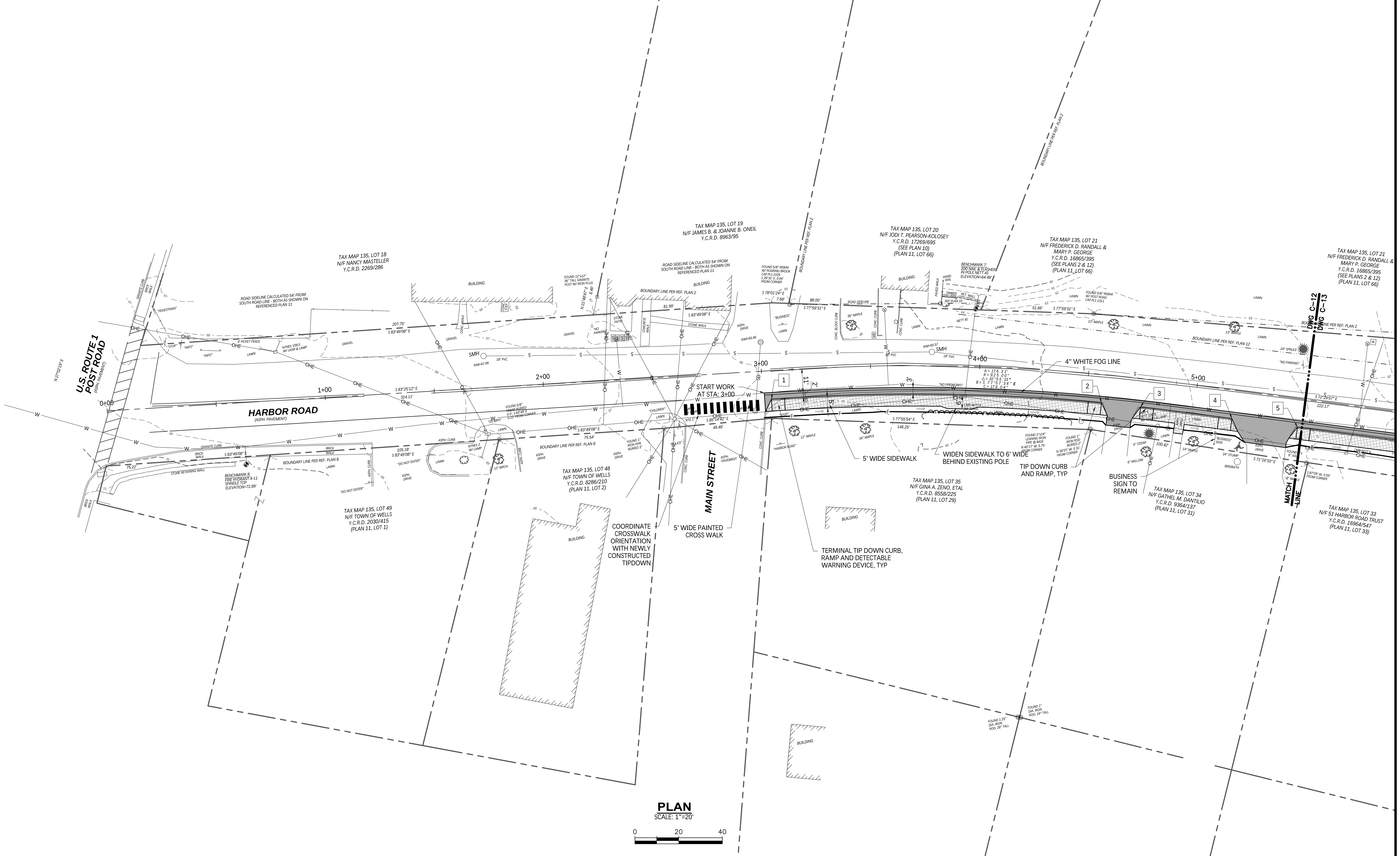
EXISTING CONDITIONS AND DEMOLITION PLAN
STA 34+50 TO STA 40+00

DRAWING
C-11

LAST SAVED BY: MATT.LAPIERRE 10/6/2020 9:24 AM

CURB END POINTS

POINT	STATION	OFFSET
1	3+03.84	13.0' RT
2	4+57.04	13.0' RT
3	4+75.35	13.0' RT
4	5+17.70	13.0' RT
5	5+47.95	13.0' RT



NO.	SUBMISSIONS/REVISIONS	APP'D	DATE
	FINAL PSE REVIEW	J.WIE	10/20

DESIGNED BY: M.GUE
CAD COORD: M.LAP
CAD: M.LAP
CHECKED BY: M.GUE
DATE: 10-09-2020
APPROVED BY: J.WIE
DATE: 10-09-2020
PROJECT NO.: 20067A

WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

TOWN OF WELLS
HARBOR ROAD PEDESTRIAN IMPROVEMENTS
WELLS, MAINE

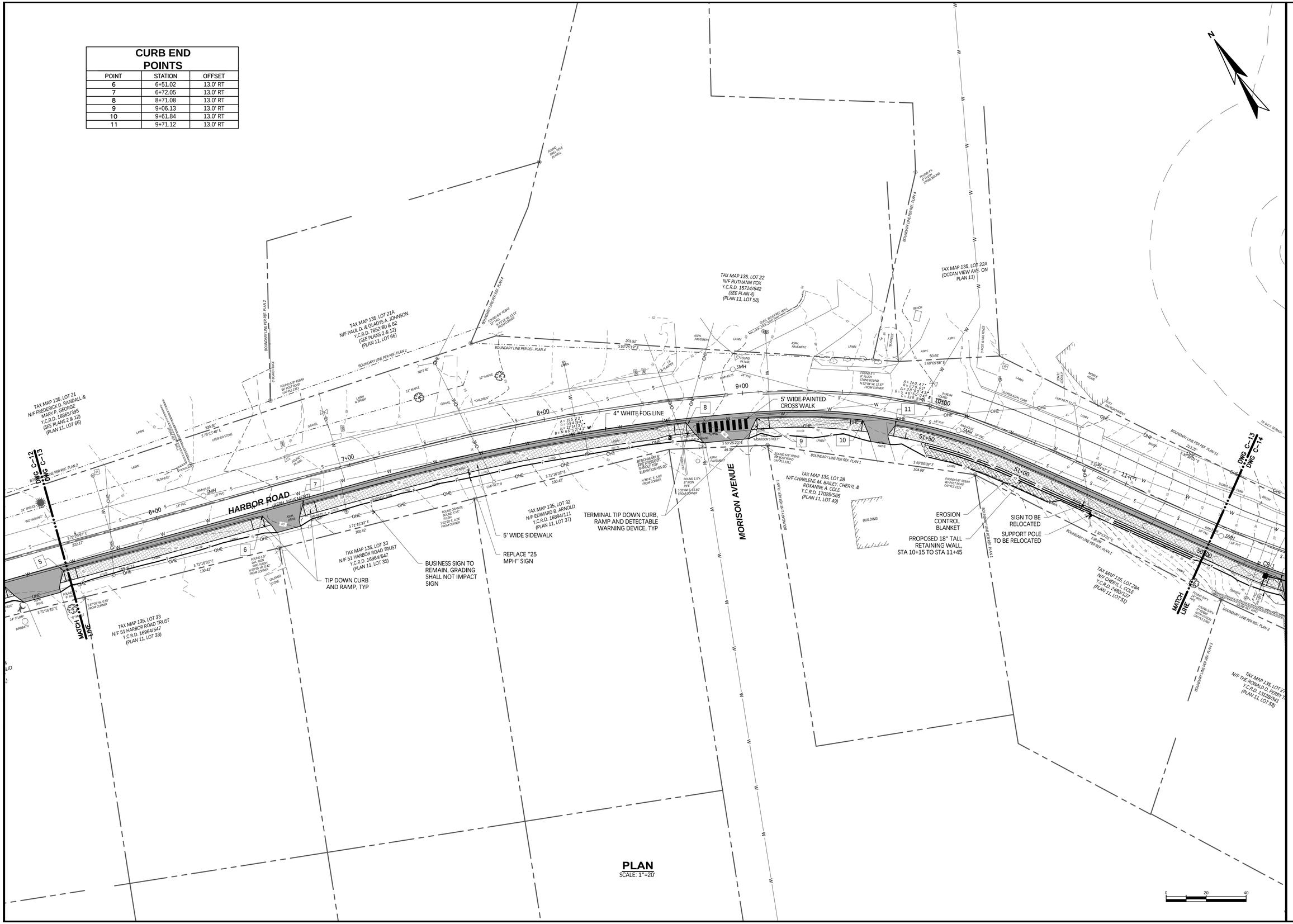
SITE LAYOUT PLAN
STA 0+00 TO STA 5+50

DRAWING
C-12

J:\ENG\ME\WELLS\20067-HARBORRDFLAPPROJECT\DRAWINGS\CIVIL\20067A LAYOUT.DWG | 20067a Layout | 1:10.12364677 | ---- | 10/7/2020 2:17:09 PM | MATT.LAPIERRE

LAST SAVED BY: MATT.LAPIERRE 10/6/2020 9:24 AM

CURB END POINTS		
POINT	STATION	OFFSET
6	6+51.02	13.0' RT
7	6+72.05	13.0' RT
8	8+71.08	13.0' RT
9	9+06.13	13.0' RT
10	9+61.84	13.0' RT
11	9+71.12	13.0' RT



PLAN
SCALE: 1"=20'

NO	SUBMISSIONS/REVISIONS	APP'D	DATE
1	FINAL PSE REVIEW	J.WIE	10/20

DESIGNED BY:.. M.GUE
CAD COORD:.. M.LAP
CAD:.. M.LAP
CHECKED BY:.. M.GUE
DATE:.. 10-09-2020
APPROVED BY:.. J.WIE
DATE:.. 10-09-2020
PROJECT NO:.. 20067A

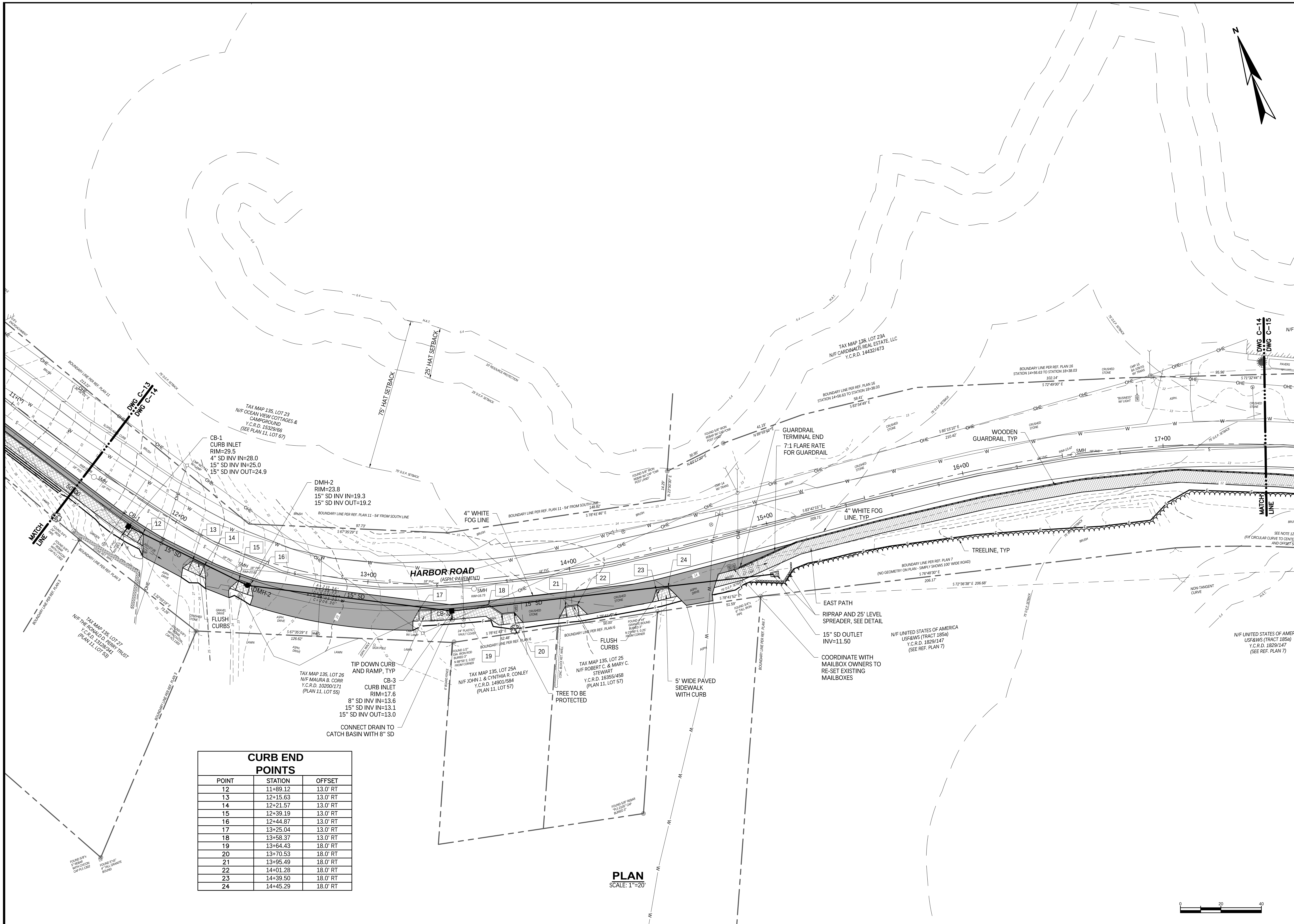
WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

TOWN OF WELLS
HARBOR ROAD PEDESTRIAN IMPROVEMENTS
WELLS, MAINE

SITE LAYOUT PLAN
STA 5+50 TO STA 11+50

DRAWING
C-13

J:\ENGINEE\WELLS\20067-HARBORRDPLAPPROJECT\DRAWINGS\CIVIL\20067A LAYOUT.DWG | 20067A Layout II | 1:10.12364677 | — | 10/7/2020 2:17:19 PM | MATT.LAPIERRE



CURB END POINTS

POINT	STATION	OFFSET
12	11+89.12	13.0' RT
13	12+15.63	13.0' RT
14	12+21.57	13.0' RT
15	12+39.19	13.0' RT
16	12+44.87	13.0' RT
17	13+25.04	13.0' RT
18	13+58.37	13.0' RT
19	13+64.43	18.0' RT
20	13+70.53	18.0' RT
21	13+95.49	18.0' RT
22	14+01.28	18.0' RT
23	14+39.50	18.0' RT
24	14+45.29	18.0' RT

NO	SUBMISSIONS/REVISIONS	APP'D	DATE
	FINAL PSE REVIEW	J.WIE	10/20

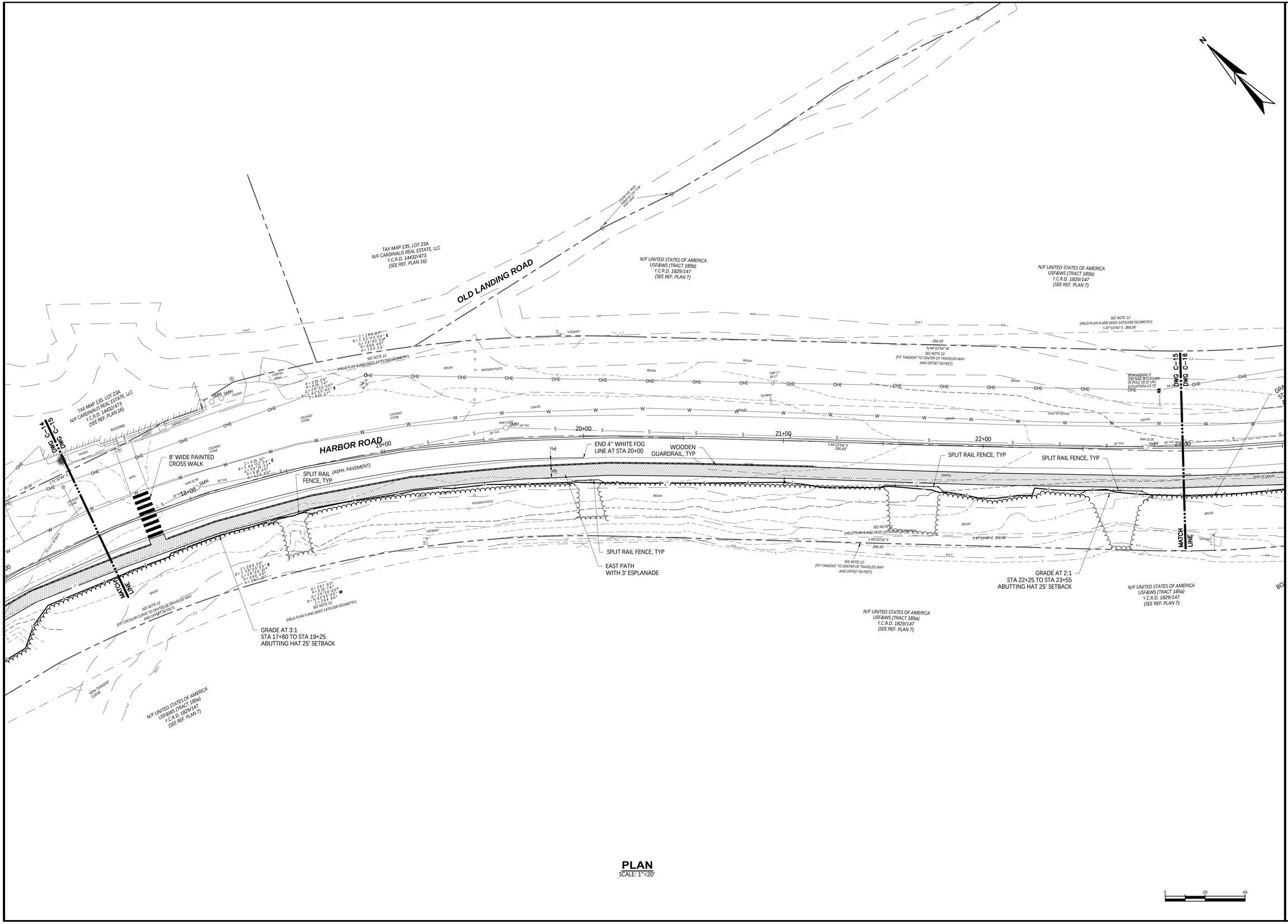
DESIGNED BY: M.GUE
CAD COORD: M.LAP
CAD: M.LAP
CHECKED BY: M.GUE
DATE: 10-09-2020
APPROVED BY: J.WIE
DATE: 10-09-2020
PROJECT NO: 20067A

WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

TOWN OF WELLS
HARBOR ROAD PEDESTRIAN IMPROVEMENTS
WELLS, MAINE

SITE LAYOUT PLAN
STA 11+50 TO STA 17+50

DRAWING
C-14



PLAN
SCALE: 1"=20'

0 20 40

NO	SUBMISSIONS/REVISIONS	APP'D	DATE
1	FINAL PSE REVIEW	J.WIE	10/20
2			
3			
4			
5			

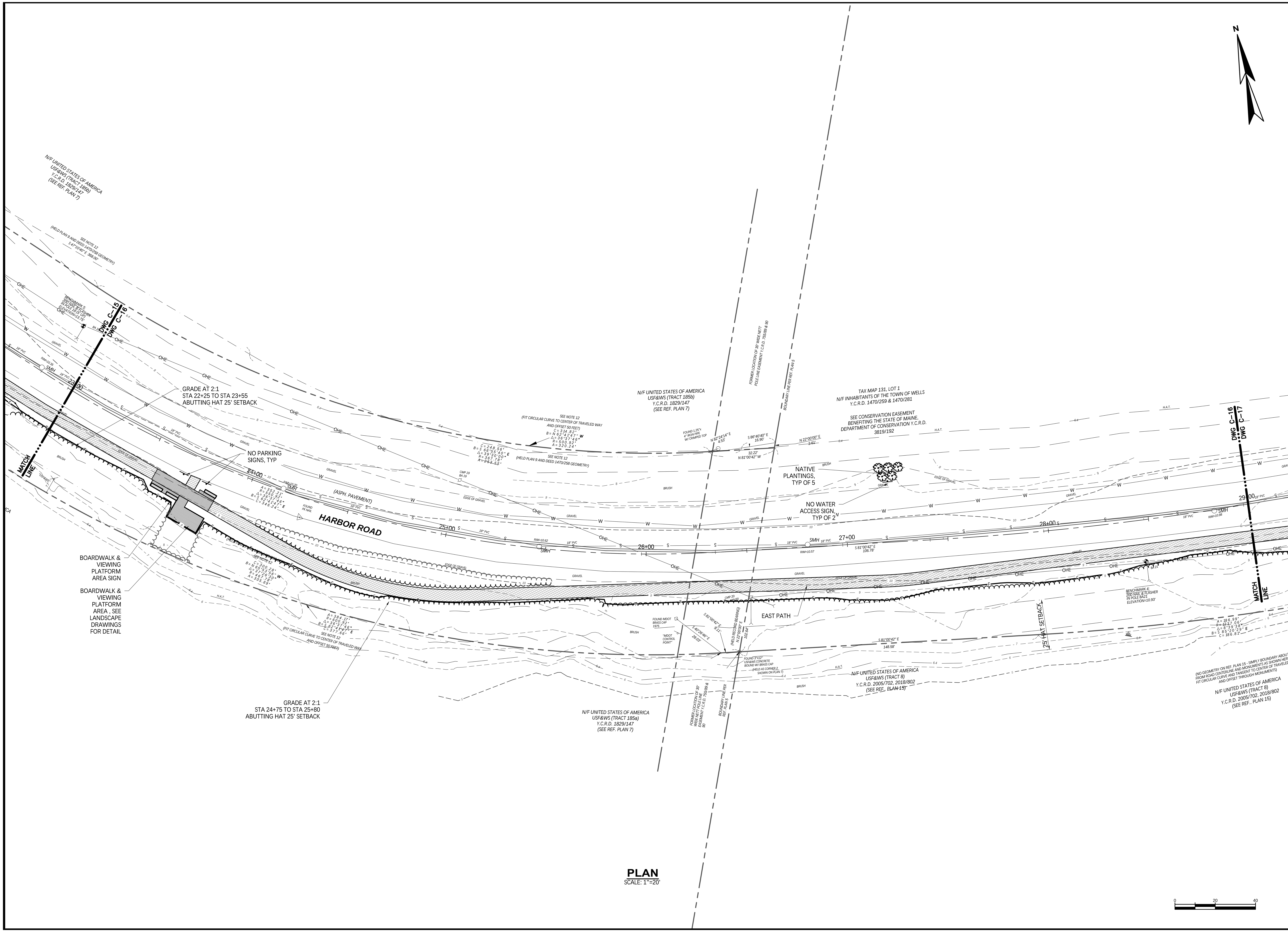
DESIGNED BY:.. M.GUE
CAD COORD:.. M.LAP
CAD:.. M.LAP
CHECKED BY:.. M.GUE
DATE:.. 10-09-2020
APPROVED BY:.. J.WIE
DATE:.. 10-09-2020
PROJECT NO:.. 20067A

WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

TOWN OF WELLS
HARBOR ROAD PEDESTRIAN IMPROVEMENTS
WELLS, MAINE

SITE LAYOUT PLAN
STA 17+50 TO STA 23+00

DRAWING
C-15



TOWN OF WELLS
HARBOR ROAD PEDESTRIAN IMPROVEMENTS
WELLS, MAINE

SITE LAYOUT PLAN
STA 23+00 TO STA 29+00

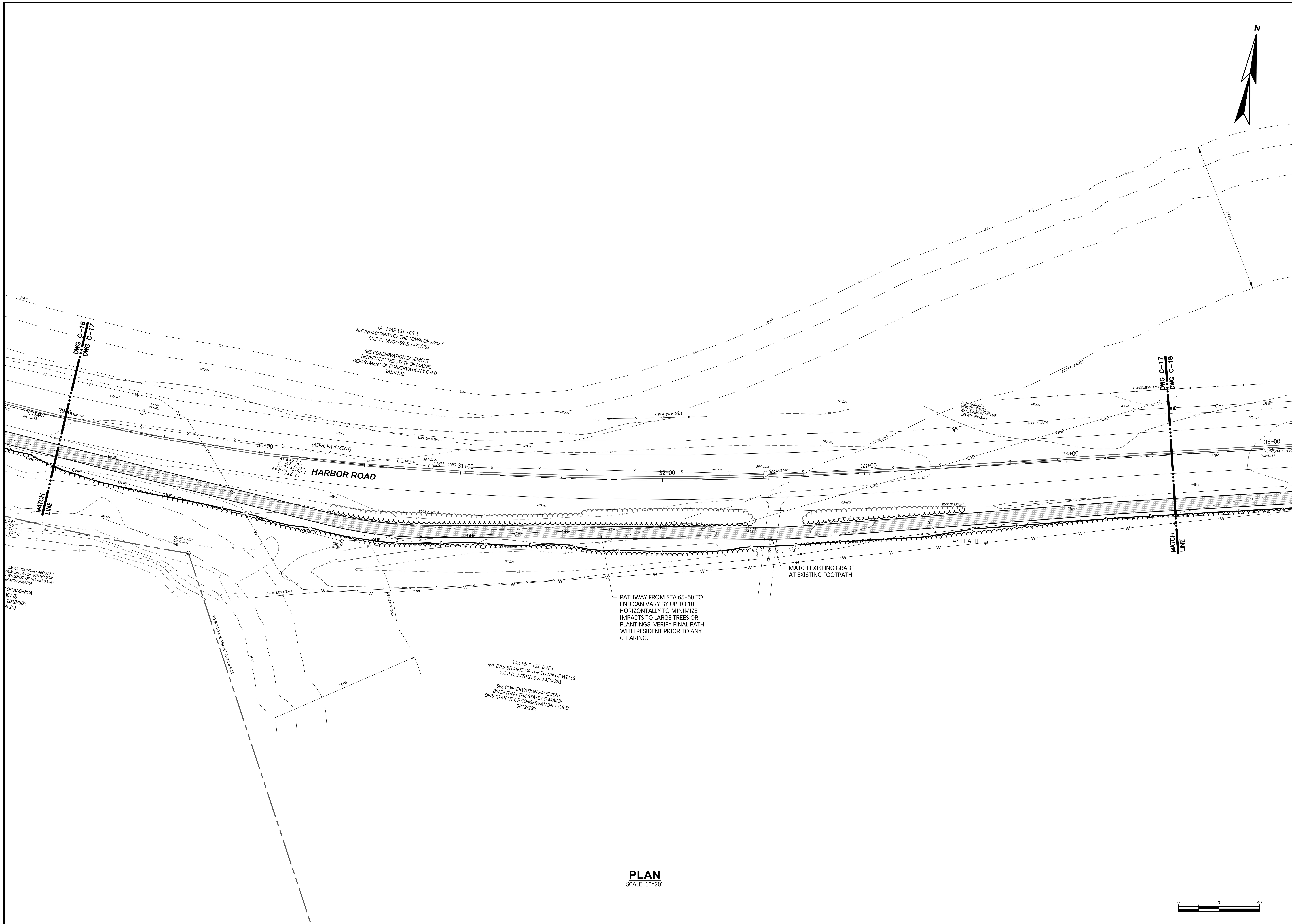
WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

DESIGNED BY: M.GUE
CAD COORD: M.LAP
CAD: M.LAP
CHECKED BY: M.GUE
DATE: 10-09-2020
APPROVED BY: J.WIE
DATE: 10-09-2020
PROJECT NO: 20067A

NO	SUBMISSIONS/REVISIONS	APP'D	DATE
1	FINAL PSE REVIEW	J.WIE	10/20
2			
3			
4			

DRAWING
C-16

LAST SAVED BY: MATT.LAPIERRE 10/6/2020 9:24 AM



PLAN
SCALE: 1"=20'

NO	SUBMISSIONS/REVISIONS	APP'D	DATE
	FINAL PSE REVIEW	J.WIE	10/20
1			
2			
3			
4			

DESIGNED BY: M.GUE
CAD COORD: M.LAP
CAD: M.LAP
CHECKED BY: M.GUE
DATE: 10-09-2020
APPROVED BY: J.WIE
DATE: 10-09-2020
PROJECT NO: 20067A

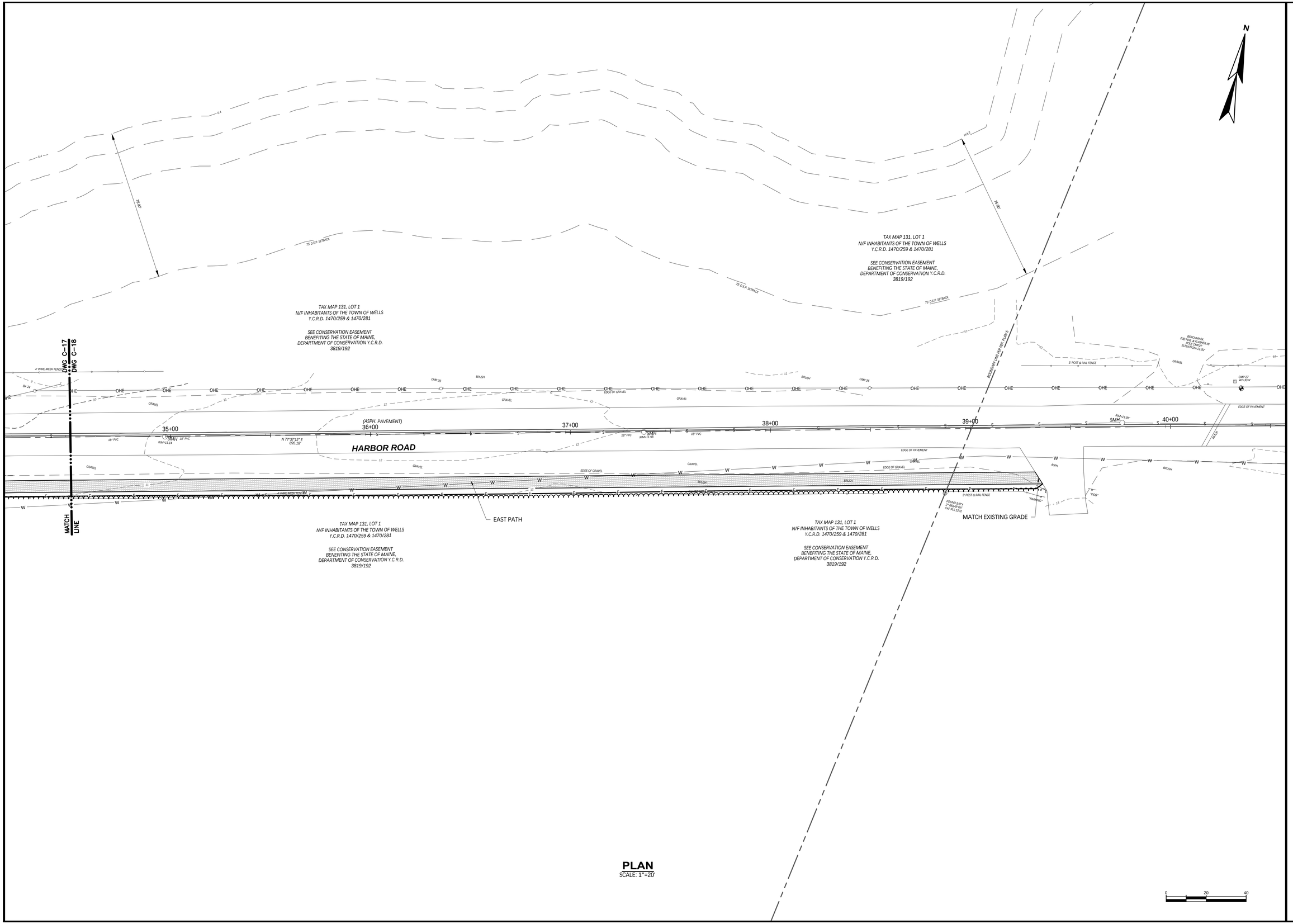
WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

TOWN OF WELLS
HARBOR ROAD PEDESTRIAN IMPROVEMENTS
WELLS, MAINE

SITE LAYOUT PLAN
STA 29+00 TO STA 34+50

DRAWING
C-17

J:\ENG\ME\WELLS\20067-HARBORDFLAPPROJECT\DRAWINGS\CIV\20067A LAYOUT.DWG | 20067a Layout VI | 1:10.12364677 | ---- | 10/7/2020 2:17:59 PM | MATT.LAPIERRE



NO	SUBMISSIONS/REVISIONS	APP'D	DATE
	FINAL PSE REVIEW	J.WIE	10/20

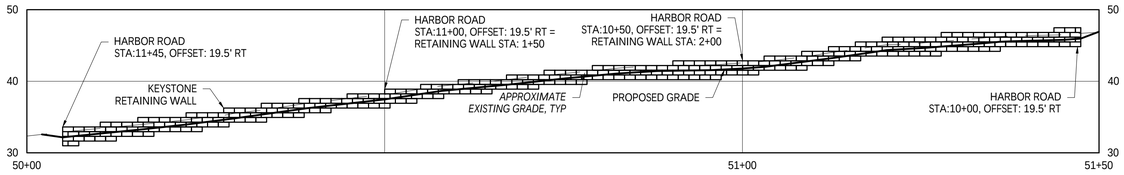
DESIGNED BY:.. M.GUE
CAD COORD:.. M.LAP
CAD:.. M.LAP
CHECKED BY:.. M.GUE
DATE:.. 10-09-2020
APPROVED BY:.. J.WIE
DATE:.. 10-09-2020
PROJECT NO:.. 20067A

WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

TOWN OF WELLS
HARBOR ROAD PEDESTRIAN IMPROVEMENTS
WELLS, MAINE

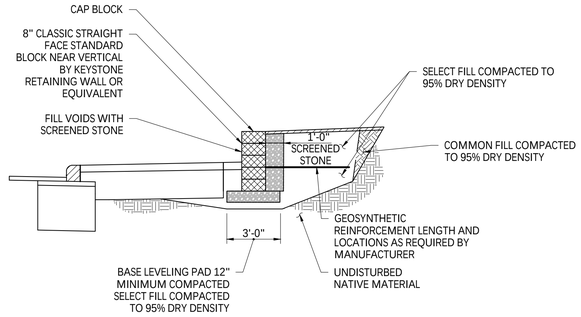
SITE LAYOUT PLAN
STA 34+50 TO STA 40+00

DRAWING
C-18



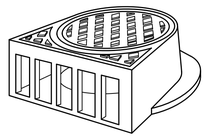
RETAINING WALL PROFILE

SCALE
VERT: 1"=10'
HORIZ: 1"=10'

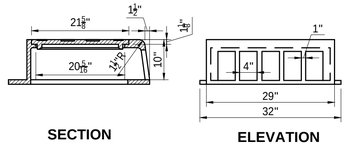


KEYSTONE RETAINING WALL

SCALE: NTS



ISOMETRIC VIEW



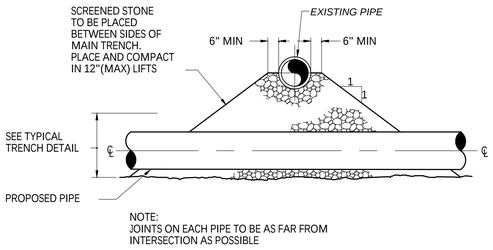
SECTION ELEVATION

CURB INLET

SCALE: "NTS"

NOTE:

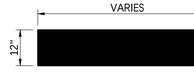
1. USE NEENAH FOUNDRY CURB INLET R-3305 - OR EQUAL AS APPROVED BY ENGINEER



NOTE:
JOINTS ON EACH PIPE TO BE AS FAR FROM INTERSECTION AS POSSIBLE

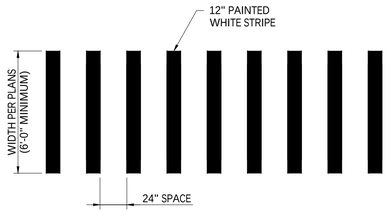
PIPE CROSSING DETAIL

NTS



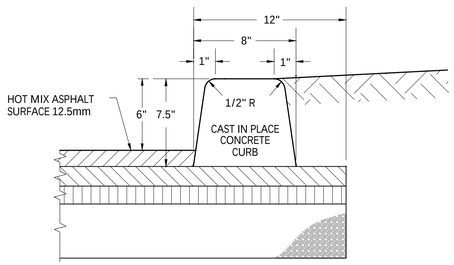
PAINTED STOP BAR

SCALE: NTS



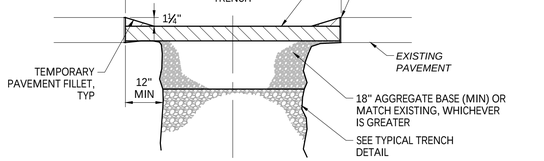
CROSSWALK LAYOUT

SCALE: NTS



SLIPFORM CONCRETE CURB

SCALE: NTS

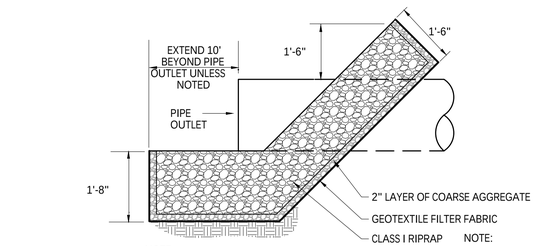


PAVEMENT PAY LIMITS	
PIPE I.D.	"W" (FOR 0' - 10' DEEP)
6" - 15"	7'-0"
16" - 21"	8'-0"

"W" SHALL BE INCREASED BY 1'-0" FOR TRENCHES 10' - 15', AND BY 2'-0" FOR TRENCHES 15' - 20' DEEP.

INITIAL TRENCH PAVING (WITHOUT OVERLAY)

NTS

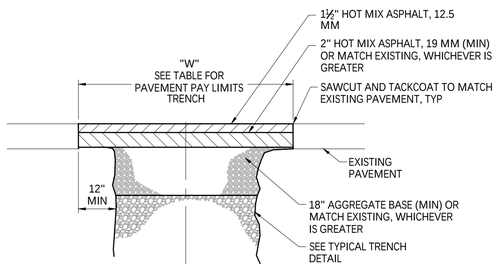


NOTE:
RIPRAP WIDTH SHALL BE EQUAL TO THE PIPE OUTSIDE Ø PLUS 4 FEET CENTERED ON PIPE

NOTE:

PIPE OUTLET RIPRAP

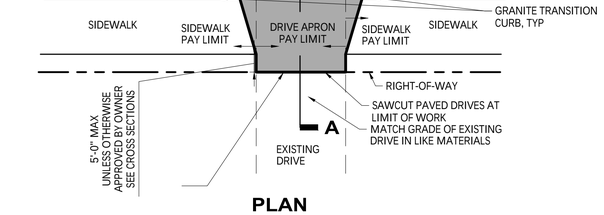
SCALE: NTS



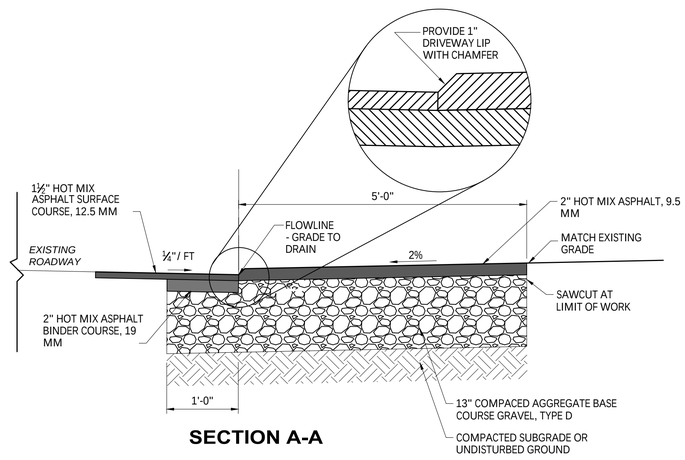
NOTE: INITIAL TRENCH PAVING MAY BE USED AS THE BASE COURSE FOR FINAL PAVING IF IN GOOD REPAIR.

FINAL TRENCH PAVING (WITHOUT OVERLAY)

NTS



PLAN



SECTION A-A

PAVED DRIVE APRON DETAIL

NTS

NO	SUBMISSIONS/REVISIONS	APP'D	DATE
1	FINAL PSE REVIEW	J.WIE	10/20

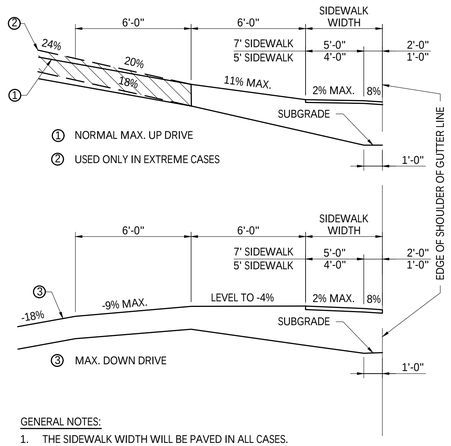
DESIGNED BY:.. M.GUE
CAD COORD:.. M.LAP
CAD:.. M.LAP
CHECKED BY:.. M.GUE
DATE:.. 10-09-2020
APPROVED BY:.. J.WIE
DATE:.. 10-09-2020
PROJECT NO:.. 20067A

WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

TOWN OF WELLS
HARBOR ROAD PEDESTRIAN IMPROVEMENTS
WELLS, MAINE

DETAILS I

DRAWING
C-19



① NORMAL MAX. UP DRIVE

② USED ONLY IN EXTREME CASES

③ MAX. DOWN DRIVE

GENERAL NOTES:

1. THE SIDEWALK WIDTH WILL BE PAVED IN ALL CASES.
2. ALL RESIDENTIAL OR COMMERCIAL DRIVES 10% AND OVER WILL BE PAVED

NOTES ON MAXIMUM DRIVEWAY PROFILES:

1. THESE PROFILES ARE A GUIDE FOR THE MAJORITY OF CASES, BUT SHOULD BE FIELD CHECKED WHEN THE MAIN LINE GRADE IS STEEP (4% TO 6% OR GREATER) OR THE ANGLE OF APPROACH TO THE DRIVE IS UNUSUAL.
2. GENERALLY THE MAJORITY OF DRIVES ON A PROJECT WILL BE BUILT WITH FLATTER PROFILES THAN THESE MAXIMUM CASES.
3. WHEN GRADING DRIVES WHICH ARE FLATTER THAN THE MAXIMUM PROFILES THE FOLLOWING RULE OF THUMB SHOULD BE USED: DO NOT EXCEED A GRADE % CHANGE OF MORE THAN 9% IN A 6-FOOT INCREMENT OF DRIVEWAY LENGTH. THIS APPLIES TO BOTH UP AND DOWN PROFILES. ALL RESIDENTIAL OR COMMERCIAL DRIVES 10% AND OVER WILL BE PAVED

TYPICAL ENTRANCE PROFILE (SIDEWALK)

NTS

CURB END POINTS

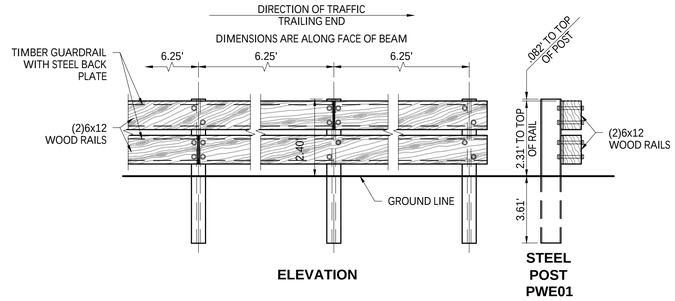
POINT	STATION	OFFSET
1	3+03.84	13.0' RT
2	4+57.04	13.0' RT
3	4+75.35	13.0' RT
4	5+17.70	13.0' RT
5	5+47.95	13.0' RT
6	6+51.02	13.0' RT
7	6+72.05	13.0' RT
8	8+71.08	13.0' RT
9	9+06.13	13.0' RT
10	9+61.84	13.0' RT
11	9+71.12	13.0' RT
12	11+89.12	13.0' RT
13	12+15.63	13.0' RT
14	12+21.57	13.0' RT
15	12+39.19	13.0' RT
16	12+44.87	13.0' RT
17	13+25.04	18.0' RT
18	13+58.37	18.0' RT
19	13+64.43	18.0' RT
20	13+70.53	18.0' RT
21	13+95.49	18.0' RT
22	14+01.28	18.0' RT
23	14+39.50	18.0' RT
24	14+45.29	18.0' RT

DRAINAGE STRUCTURE LAYOUT

DESCRIPTION	STATION	OFFSET
CB-1 (TYPE A1)	11+81.60	14.25' RT
DMH-2 (TYPE A1)	12+43.69	14.25' RT
CB-3 (TYPE A1)	13+40.34	14.25' RT

NOTES:

1. ALL CATCH BASINS SHALL HAVE 2'-0" DEPTH SUMPS
2. ALL CATCH BASINS SHALL HAVE CURB INLETS AS NOTED IN THE DETAILS.
3. OFFSETS ARE TO CENTER OF COVERS.
4. TYPE A1 CATCH BASINS SHALL BE 4' DIAMETER UNLESS OTHERWISE NOTED.



ELEVATION

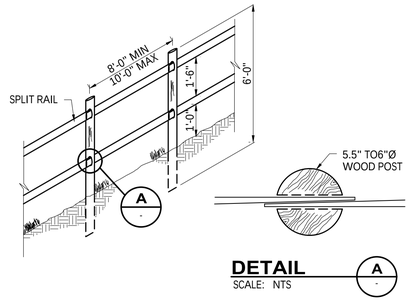
STEEL POST PWE01

NOTES:

1. INTERMEDIATE POST SPACING SHALL BE 6.25' UNLESS OTHERWISE SHOWN.
2. WOOD RAILS SHALL BE 6x12.
3. STEEL POSTS FOR GUARDRAIL SHALL BE W150x22.
4. STEEL POSTS PUNCHED WITH HOLES IN ADDITION TO THOSE SPECIFIED TO ACCOMMODATE OTHER TYPES OF GUARDRAIL, WILL BE ACCEPTED SUBJECT TO THE APPROVAL OF THE ENGINEER.
5. IDENTIFICATION LETTERS AND NUMBERS ON DRAWINGS REFER TO THE STANDARD DETAIL DRAWINGS SHOWN IN "A GUIDE TO STANDARDIZED HIGHWAY BARRIER HARDWARE" BY AASHTO-AGC-ARTBA JOINT COMMITTEE.

WOOD GUARDRAIL

SCALE: NTS

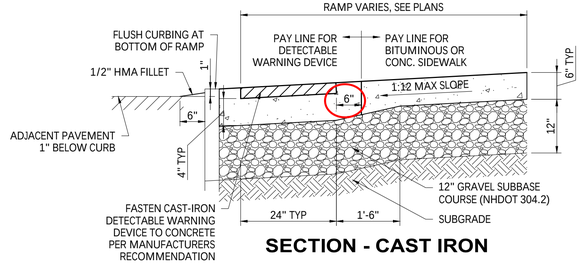


DETAIL A

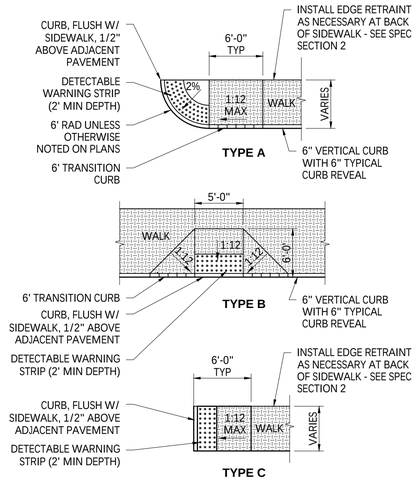
SCALE: NTS

SPLIT RAIL FENCE

SCALE: NTS



SECTION - CAST IRON

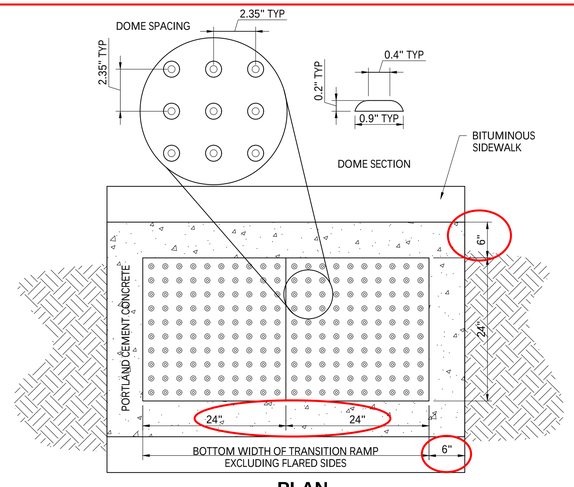


HANDICAP RAMP

SCALE: NTS

NOTES:

1. RAMPS SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA).
2. DETECTABLE WARNING STRIPS REQUIRED ON ALL RAMPS INDICATED ON THE DRAWINGS AND AS DIRECTED BY THE ENGINEER.



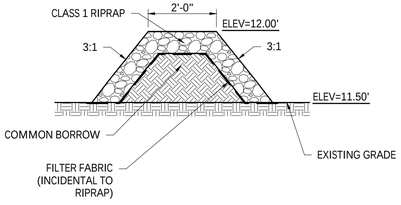
PLAN

NOTE:

1. ALL DETECTABLE WARNING DEVICES SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG). 2'x2', 2'x4' AND RADIUS DEVICES ARE ACCEPTABLE.
2. INSTALL DETECTABLE WARNING DEVICES AT ALL ROADWAYS, HIGH USE ACCESS WAYS, OR AT THE DIRECTION OF THE ENGINEER.
3. ALL DEVICES SHALL HAVE A MIN. 6" WIDTH PORTLAND CEMENT CONCRETE SURROUND REGARDLESS OF THE SURROUNDING WALK OR APRON MATERIAL.
4. **DETECTABLE WARNING PAD AND CONCRETE SHALL EXTEND THE WHOLE WIDTH OF THE PATH.**

RECTANGULAR CAST IRON HANDICAP DETECTABLE WARNING DEVICE DETAIL

SCALE: NTS



LEVEL LIP SPREADER

SCALE: NTS

NO	SUBMISSIONS/REVISIONS	APP'D	DATE
	FINAL PSE REVIEW	J.WIE	10/20

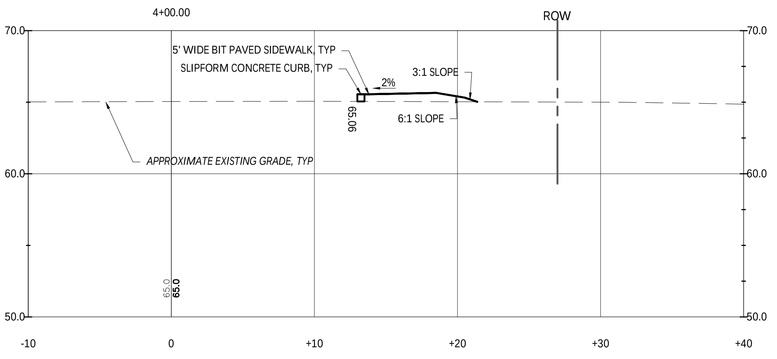
DESIGNED BY:.. M.GUE
CAD COORD:.. M.LAP
CAD:.. M.LAP
CHECKED BY:.. M.GUE
DATE:.. 10-09-2020
APPROVED BY:.. J.WIE
DATE:.. 10-09-2020
PROJECT NO:.. 20067A

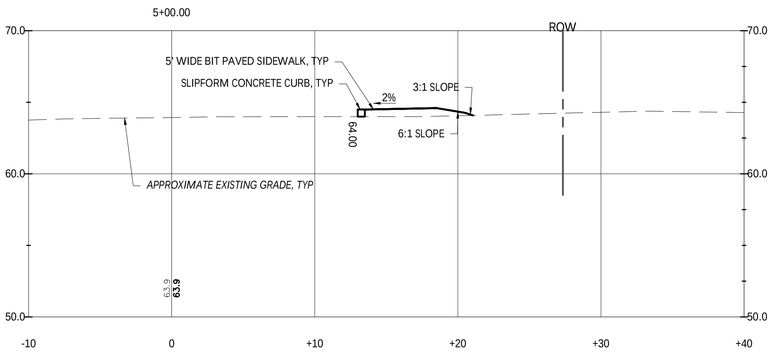
WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

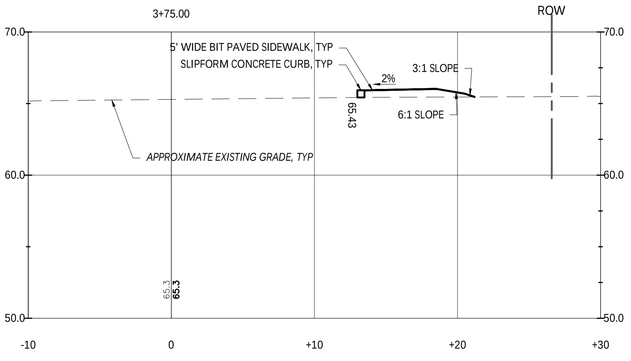
TOWN OF WELLS
HARBOR ROAD PEDESTRIAN IMPROVEMENTS
WELLS, MAINE

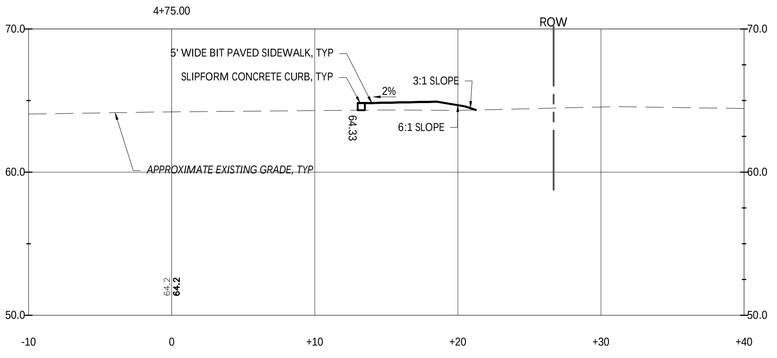
DETAILS II

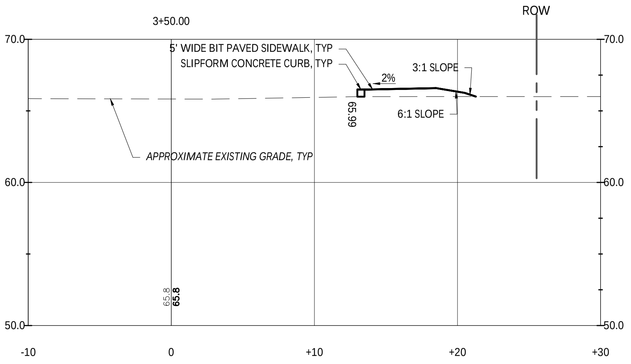
DRAWING
C-20





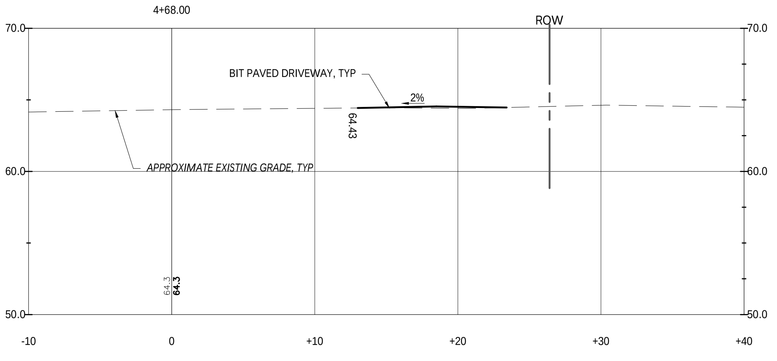


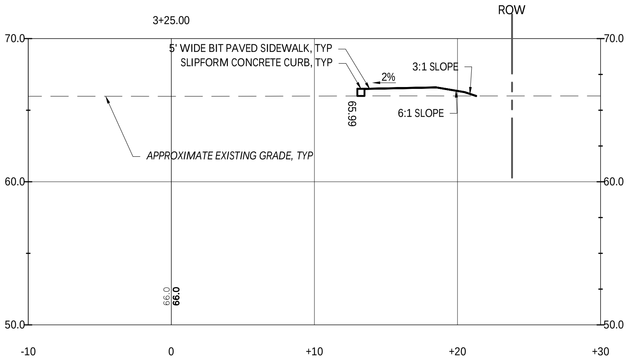


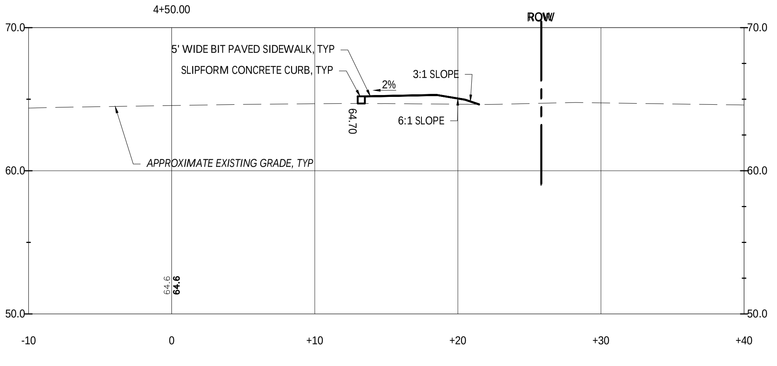


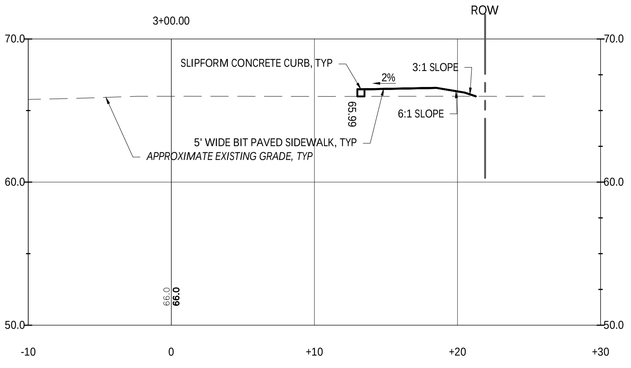
X-SECTIONS

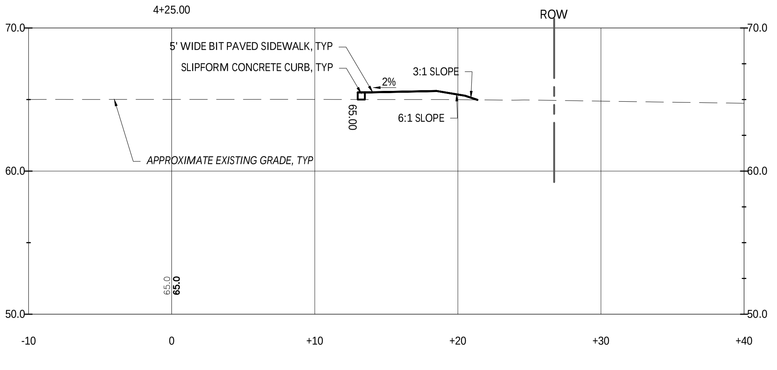
SCALE
VERT: 1"=5'
HORIZ: 1"=5'











DRAWING C-21

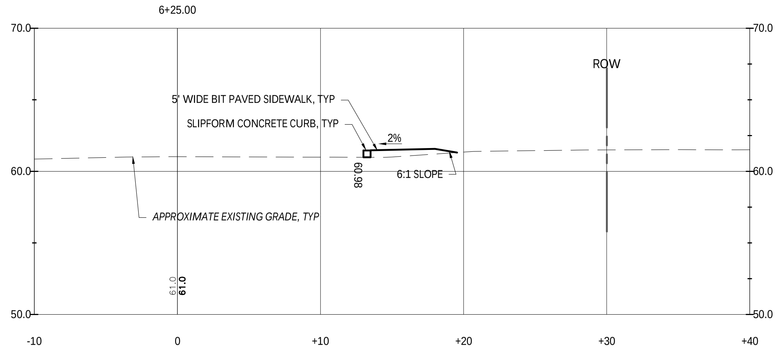
TOWN OF WELLS
HARBOR ROAD PEDESTRIAN IMPROVEMENTS
WELLS, MAINE

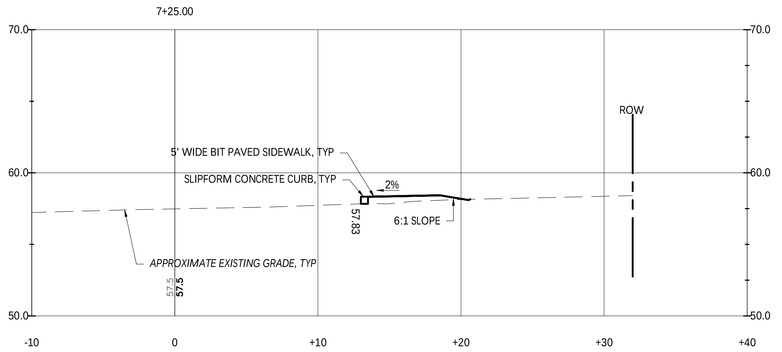
CROSS SECTIONS
STA 3+00 TO STA 5+00

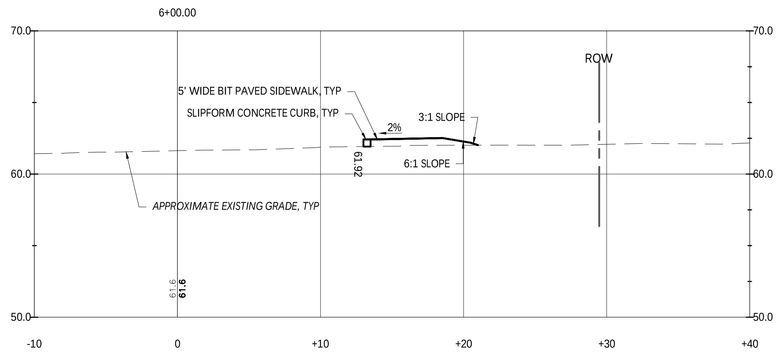
WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

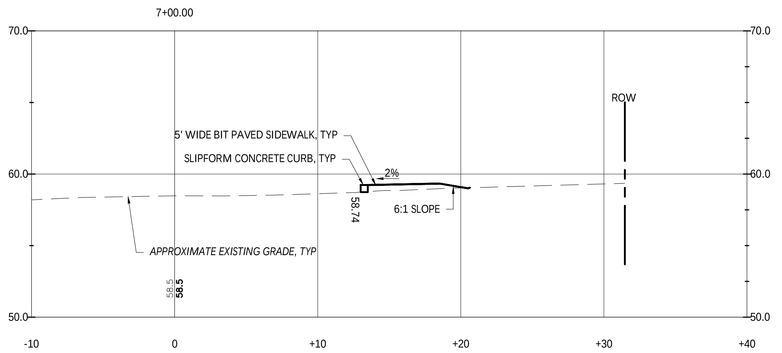
DESIGNED BY: M.GUE
CAD COORD: M.LAP
CAD: M.LAP
CHECKED BY: M.GUE
DATE: 10-09-2020
APPROVED BY: J.WIE
DATE: 10-09-2020
PROJECT NO: 20067A

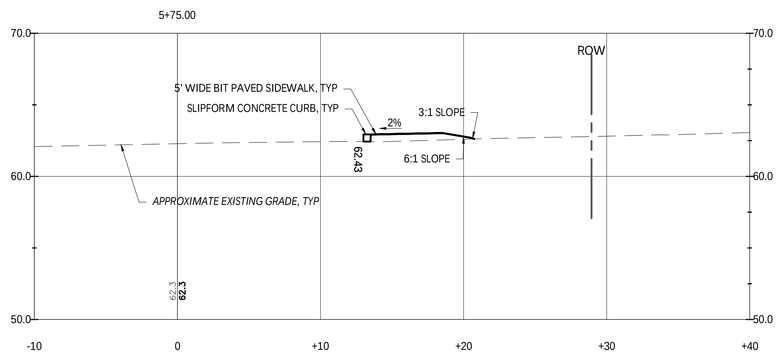
NO	SUBMISSIONS/REVISIONS	APP'D	DATE
	FINAL PSE REVIEW	J.WIE	10/20
1			
2			
3			
4			

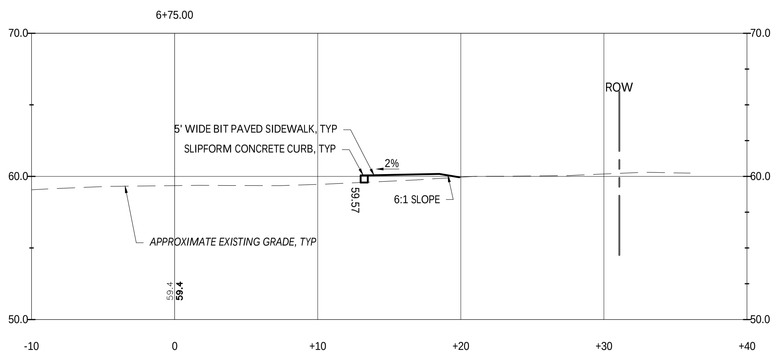


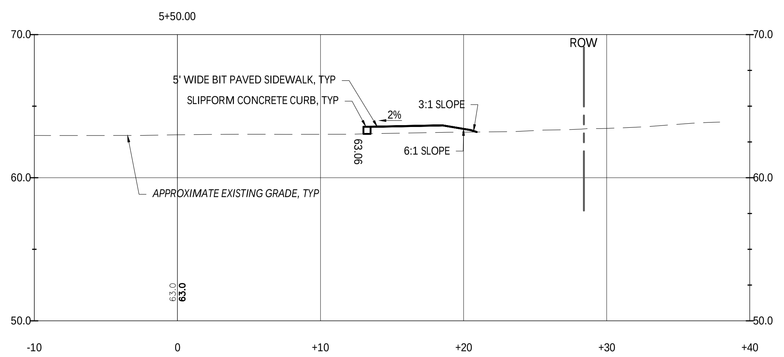


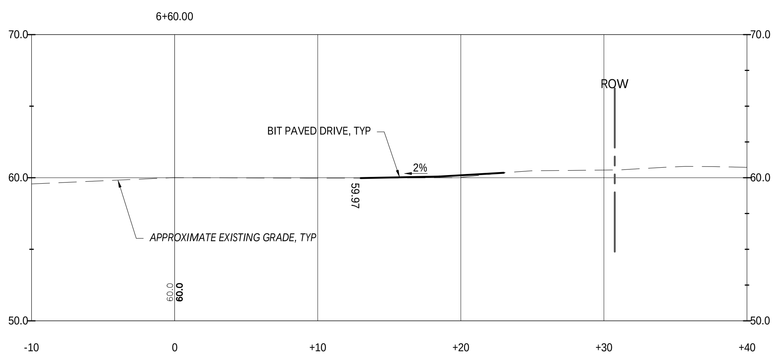


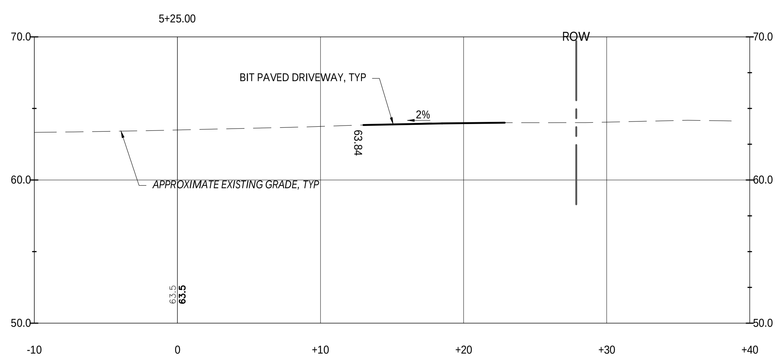


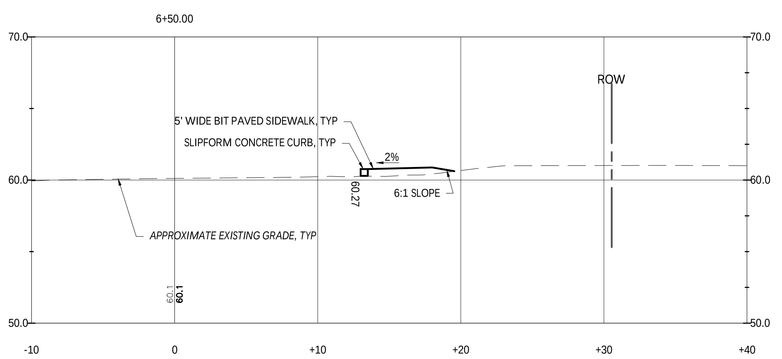












X-SECTIONS

SCALE
VERT: 1"=5'
HORIZ: 1"=5'

C-22 DRAWING

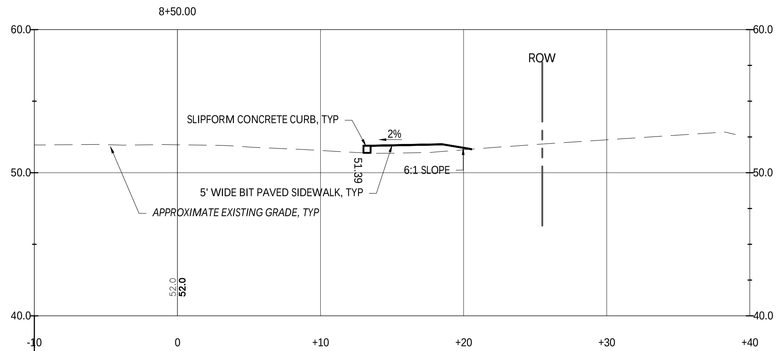
TOWN OF WELLS
HARBOR ROAD PEDESTRIAN IMPROVEMENTS
WELLS, MAINE

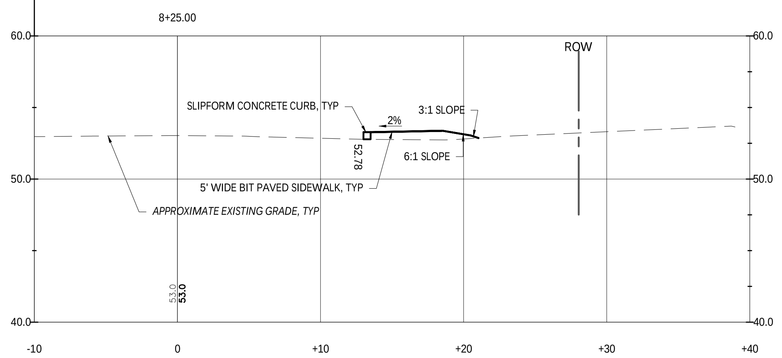
CROSS SECTIONS
STA 5+25 TO STA 7+25

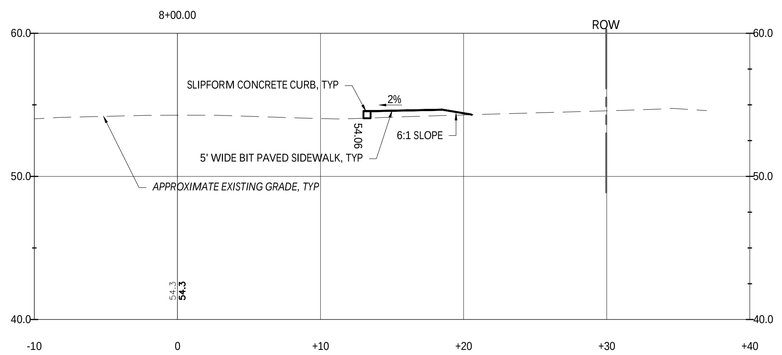
WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

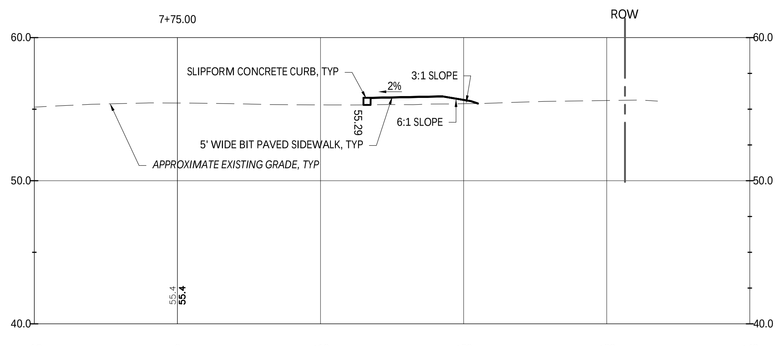
DESIGNED BY: M.GUE
CAD COORD: M.LAP
CAD: M.LAP
CHECKED BY: M.GUE
DATE: 10-09-2020
APPROVED BY: J.WIE
DATE: 10-09-2020
PROJECT NO: 20067A

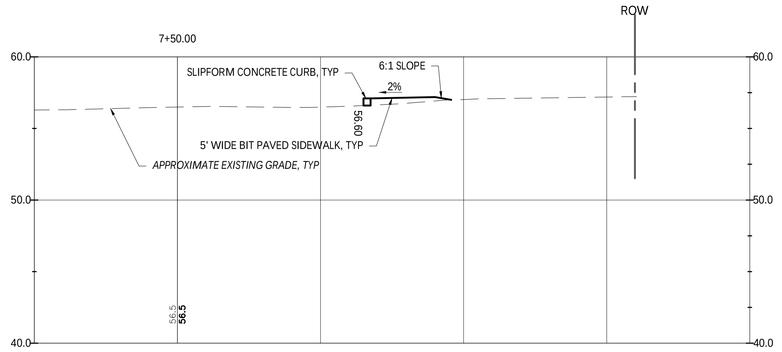
NO	SUBMISSIONS/REVISIONS	APP'D	DATE
	FINAL PSE REVIEW	J.WIE	10/20
1			
2			
3			
4			

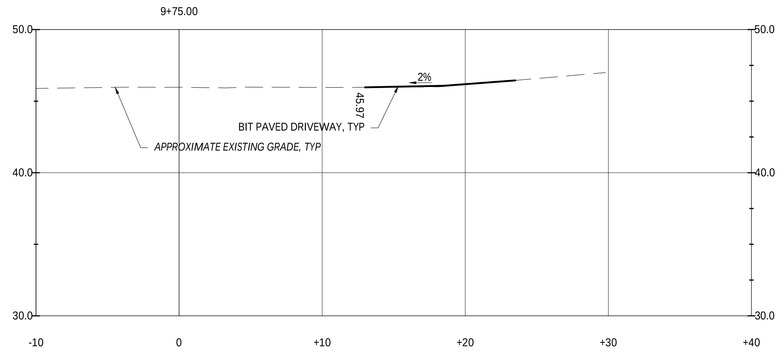


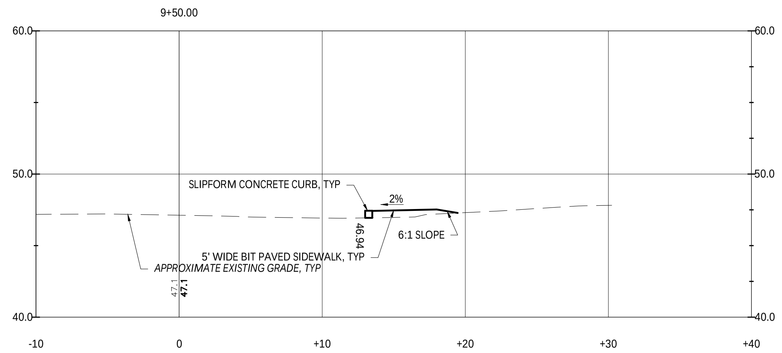


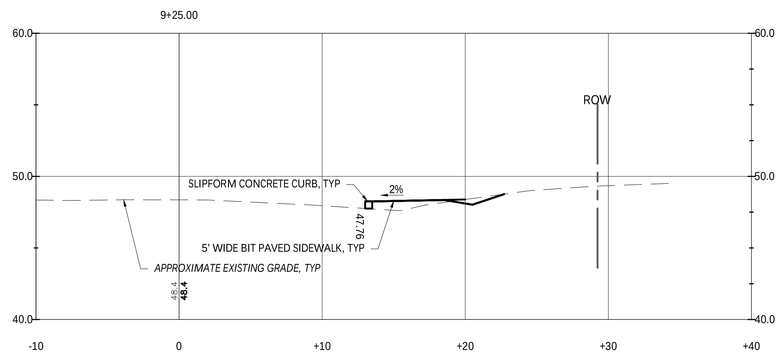


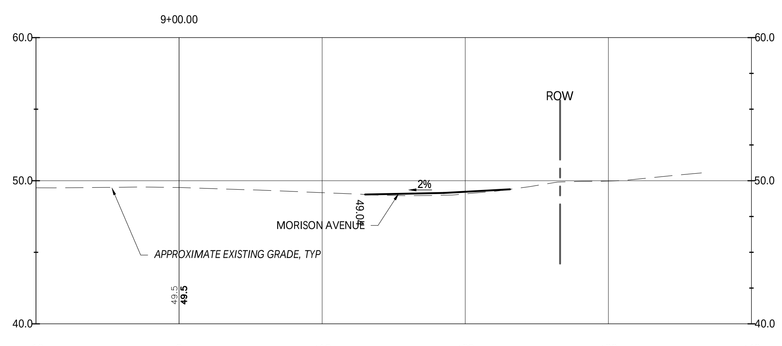


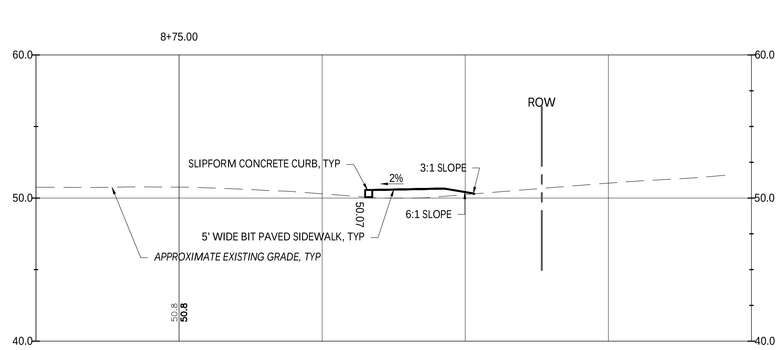












X-SECTIONS

SCALE
VERT: 1"=5'
HORIZ: 1"=5'

C-23 DRAWING

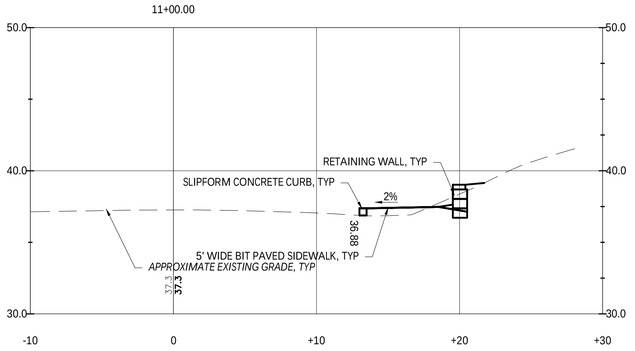
TOWN OF WELLS
HARBOR ROAD PEDESTRIAN IMPROVEMENTS
WELLS, MAINE

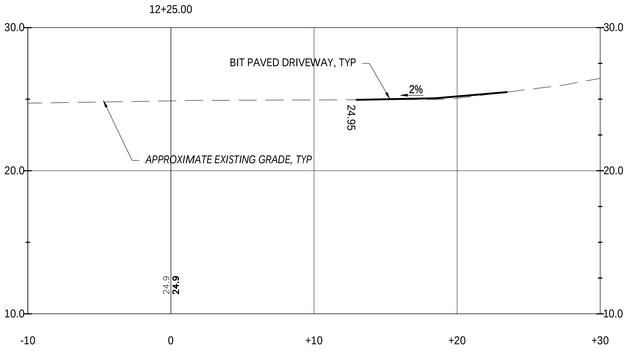
CROSS SECTIONS
STA 7+50 TO STA 9+75

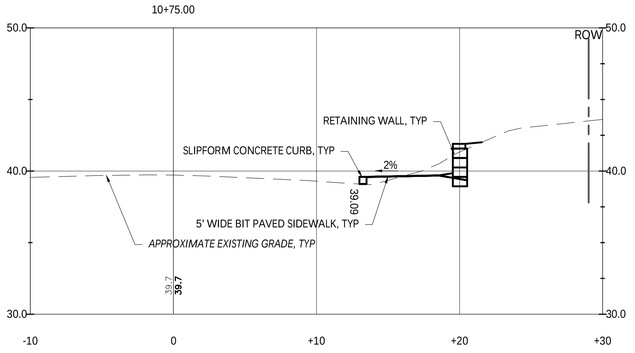
WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

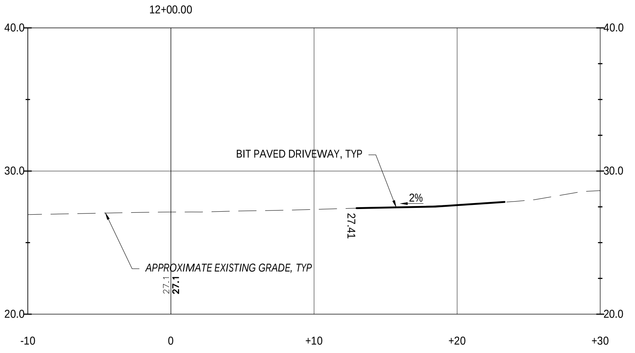
DESIGNED BY: M.GUE
CAD COORD: M.LAP
CAD: M.LAP
CHECKED BY: M.GUE
DATE: 10-09-2020
APPROVED BY: J.WIE
DATE: 10-09-2020
PROJECT NO: 20067A

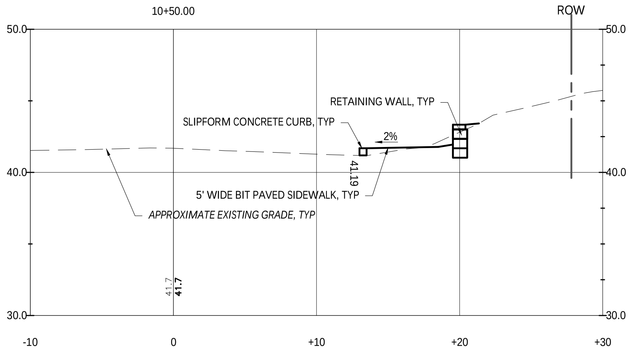
NO	SUBMISSIONS/REVISIONS	APP'D	DATE
	FINAL PSE REVIEW	J.WIE	10/20
1			
2			
3			
4			

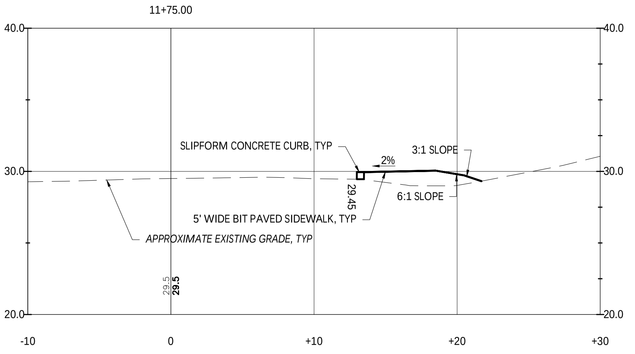


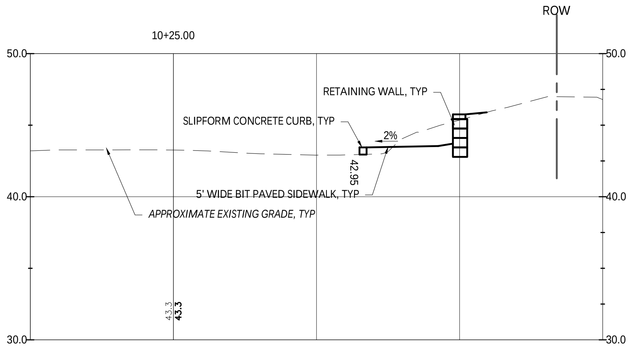


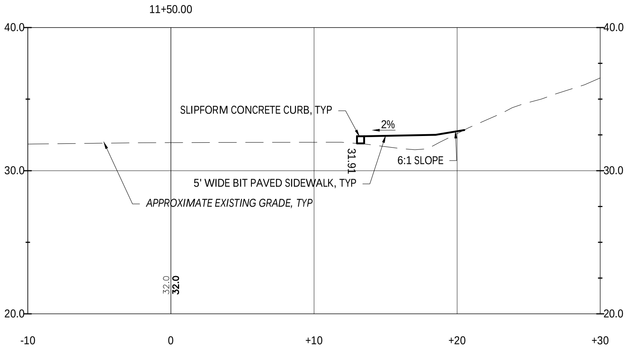


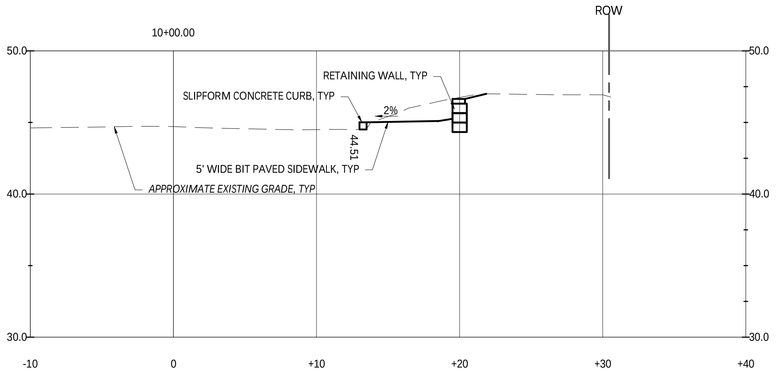


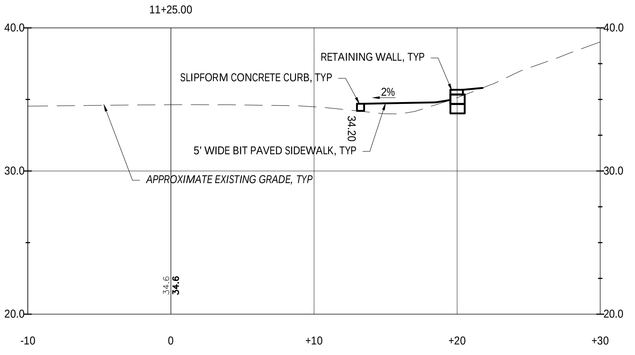












X-SECTIONS

SCALE
VERT: 1"=5'
HORIZ: 1"=5'

DRAWING C-24

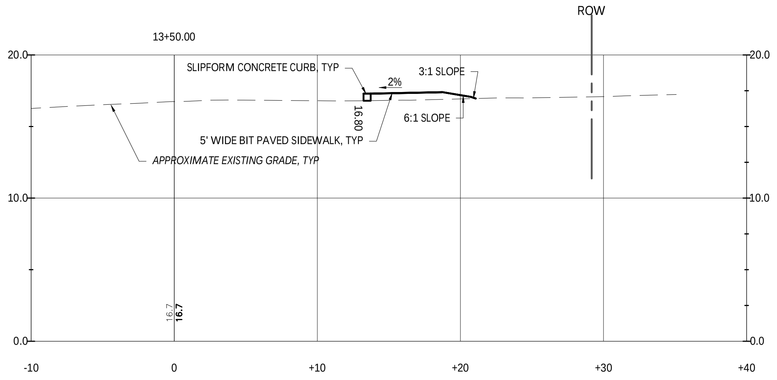
TOWN OF WELLS
HARBOR ROAD PEDESTRIAN IMPROVEMENTS
WELLS, MAINE

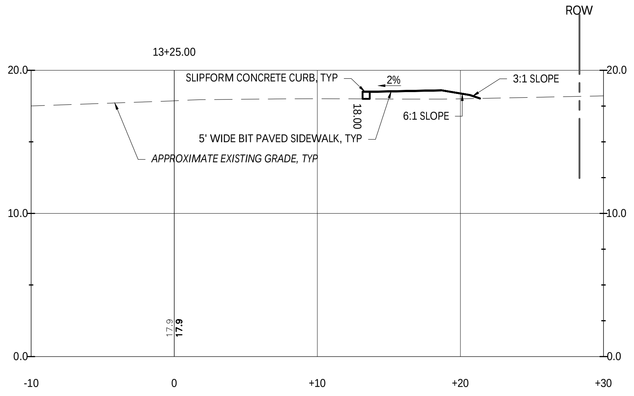
CROSS SECTIONS
STA 10+00 TO STA 12+25

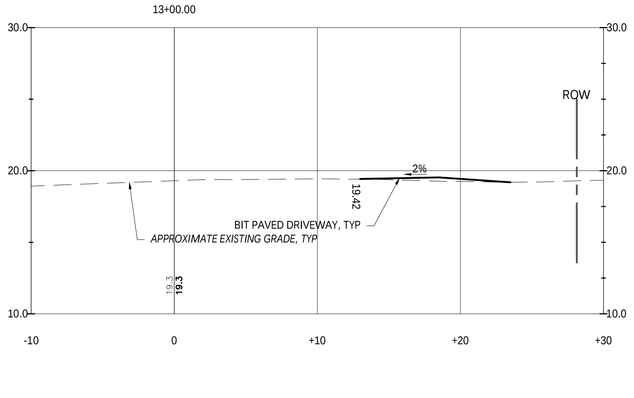
WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

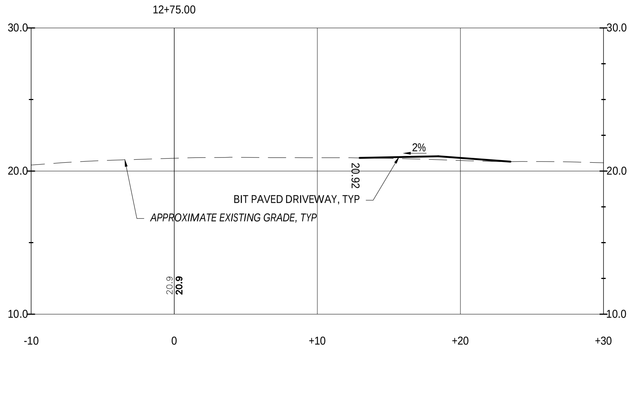
DESIGNED BY: M.GUE
CAD COORD.: M.LAP
CAD: M.LAP
CHECKED BY: M.GUE
DATE: 10-09-2020
APPROVED BY: J.WIE
DATE: 10-09-2020
PROJECT NO: 20067A

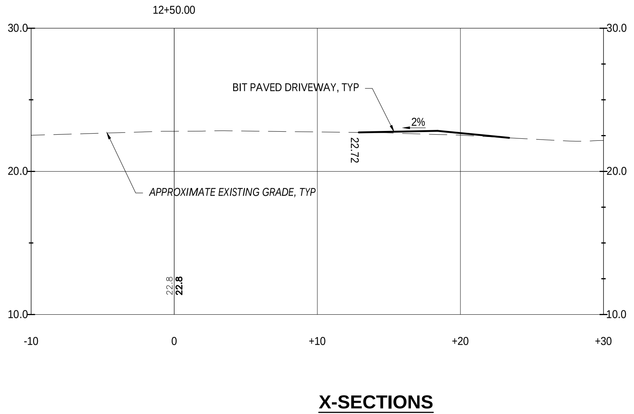
NO	SUBMISSIONS/REVISIONS	APP'D	DATE
	FINAL PSE REVIEW	J.WIE	10/20
1			
2			
3			
4			

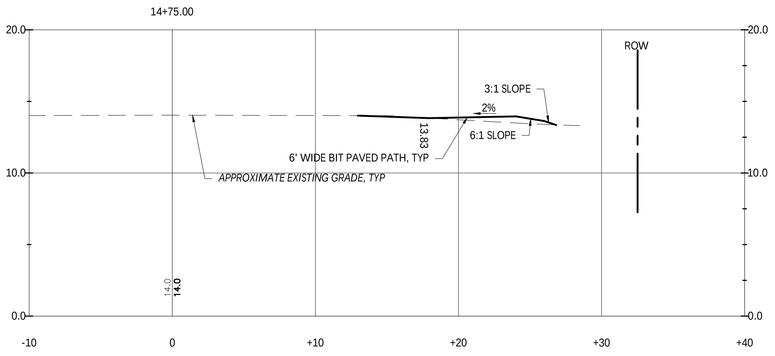


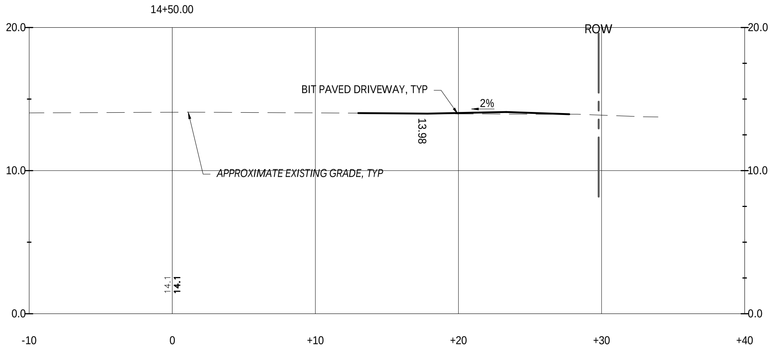


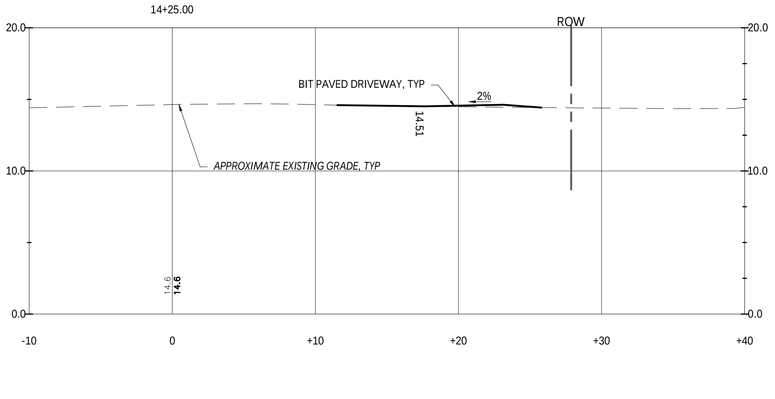


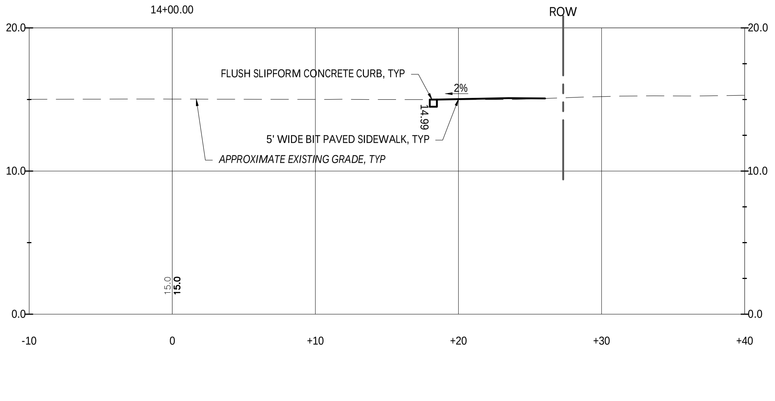


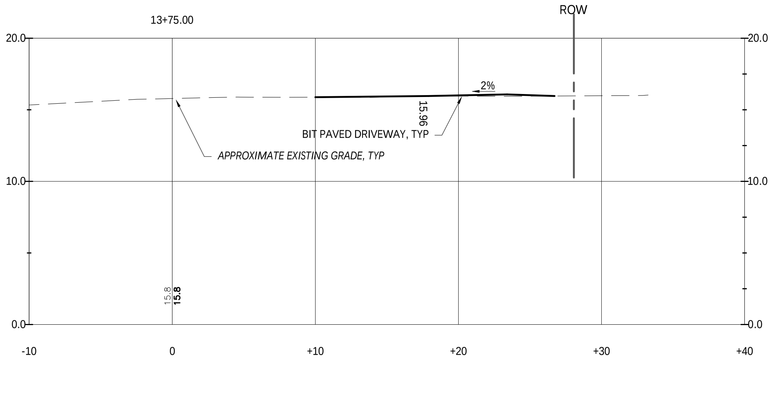












X-SECTIONS

SCALE
VERT: 1"=5'
HORIZ: 1"=5'

C-25 DRAWING

TOWN OF WELLS
HARBOR ROAD PEDESTRIAN IMPROVEMENTS
WELLS, MAINE

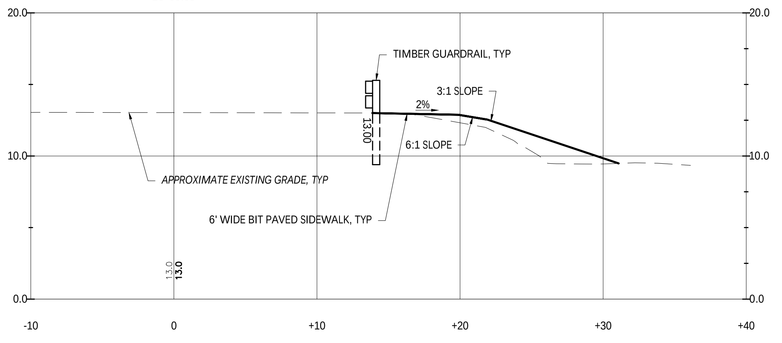
CROSS SECTIONS
STA 12+50 TO 14+75

WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

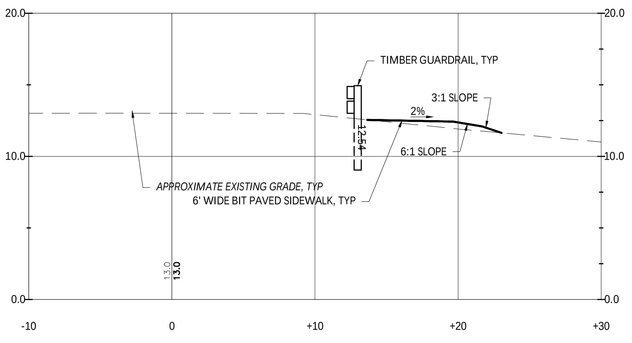
DESIGNED BY: M.GUE
CAD COORD: M.LAP
CAD: M.LAP
CHECKED BY: M.GUE
DATE: 10-09-2020
APPROVED BY: J.WIE
DATE: 10-09-2020
PROJECT NO: 20067A

NO	SUBMISSIONS/REVISIONS	APP'D	DATE
	FINAL PSE REVIEW	J.WIE	10/20
1			
2			
3			
4			

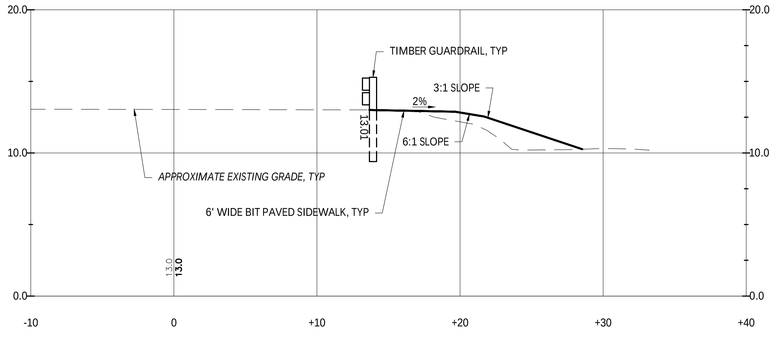
16+00.00



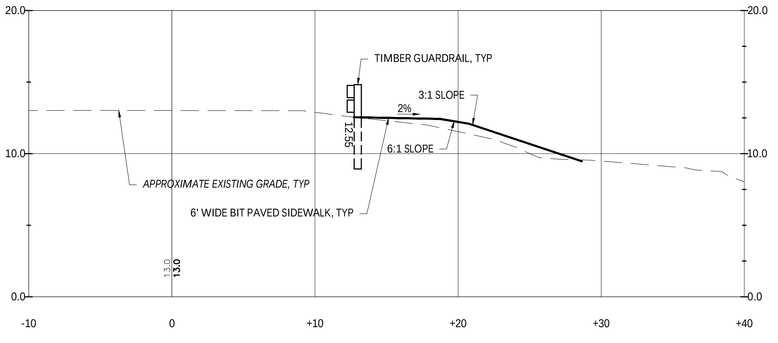
17+25.00



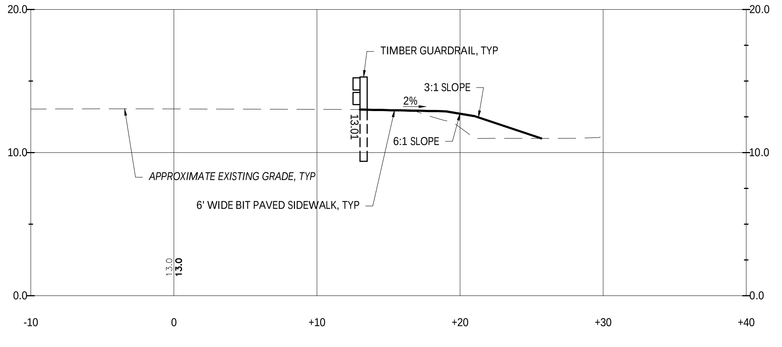
15+75.00



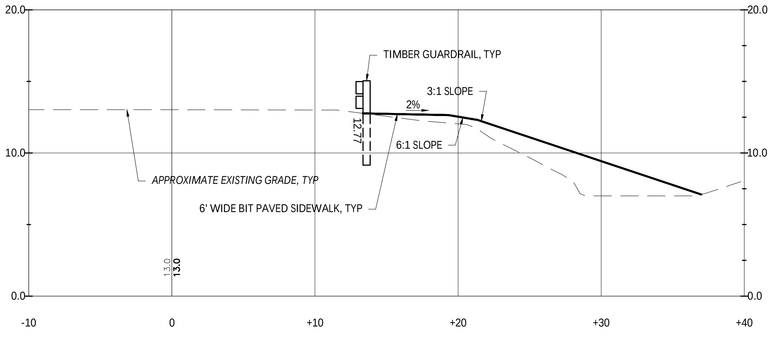
17+00.00



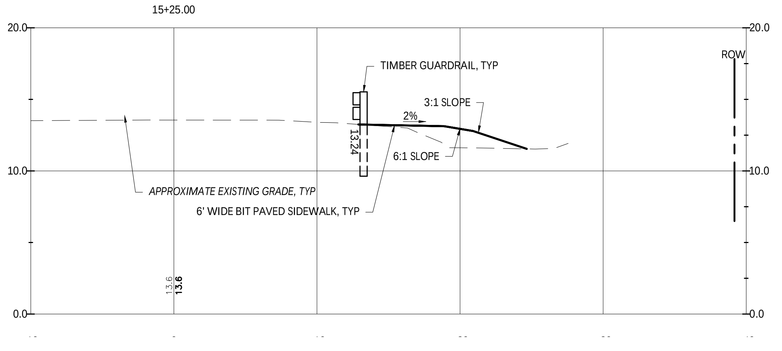
15+50.00



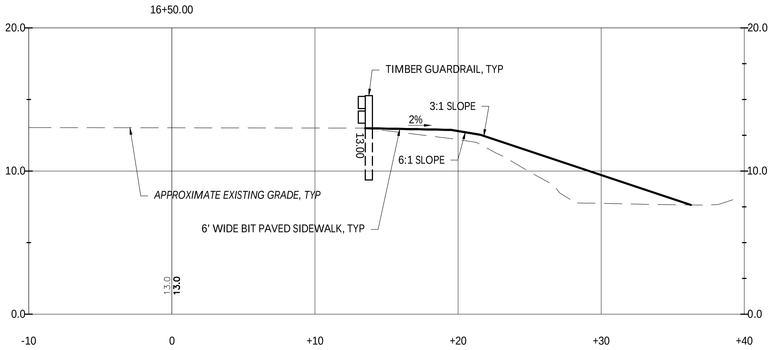
16+75.00



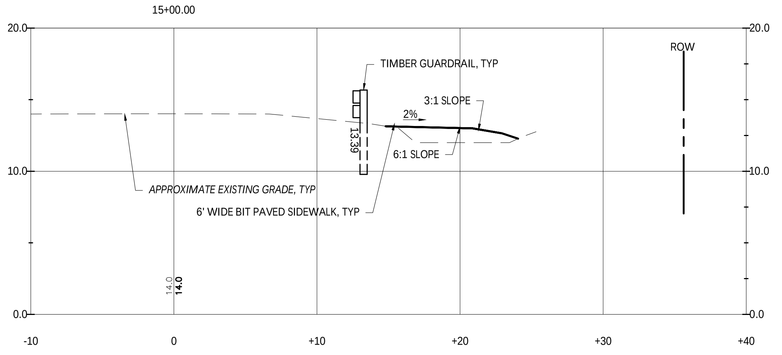
15+25.00



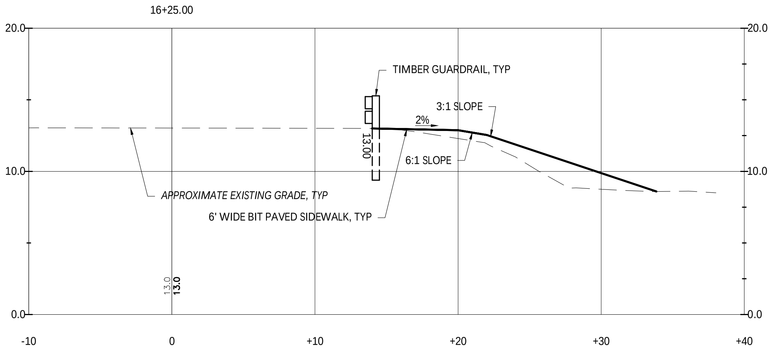
16+50.00



15+00.00



16+25.00



X-SECTIONS

SCALE
VERT: 1"=5'
HORIZ: 1"=5'

C-26

DRAWING

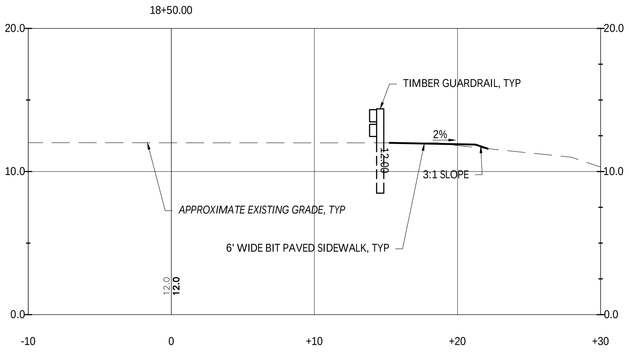
TOWN OF WELLS
HARBOR ROAD PEDESTRIAN IMPROVEMENTS
WELLS, MAINE

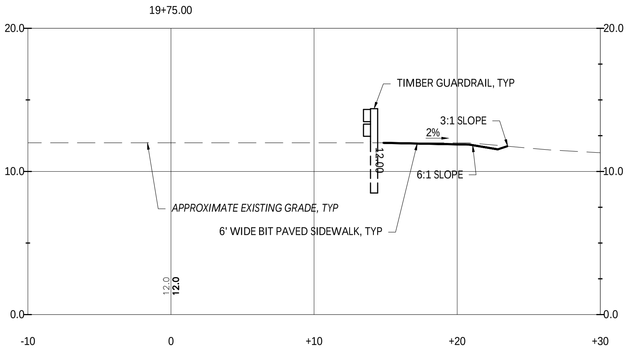
CRSOSS SECTIONS
STA 15+00 TO STA 17+25

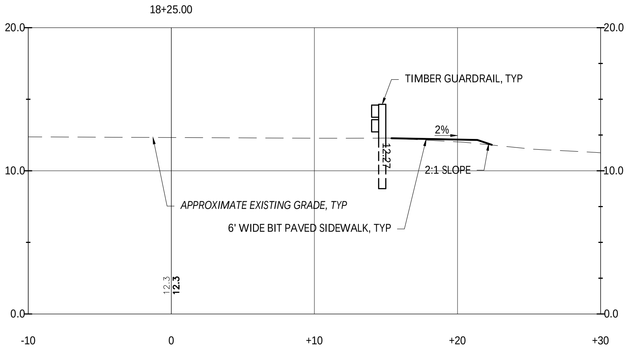
WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

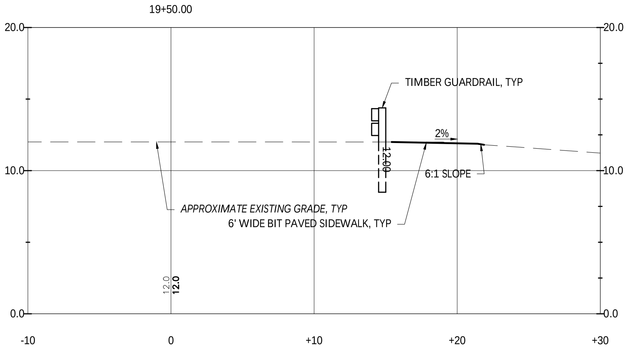
DESIGNED BY: M.GUE
CAD COORD: M.LAP
CAD: M.LAP
CHECKED BY: M.GUE
DATE: 10-09-2020
APPROVED BY: J.WIE
DATE: 10-09-2020
PROJECT NO: 20067A

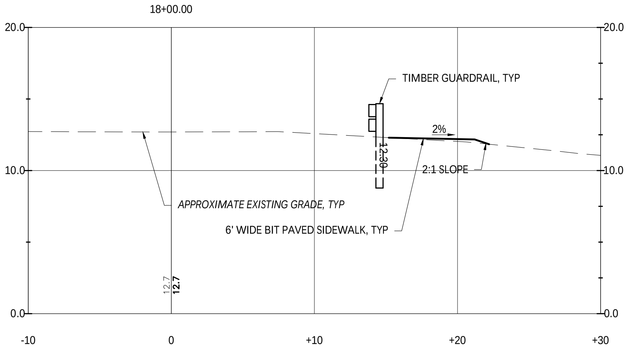
NO	SUBMISSIONS/REVISIONS	APP'D	DATE
	FINAL PSE REVIEW	J.WIE	10/20
1			
2			
3			
4			

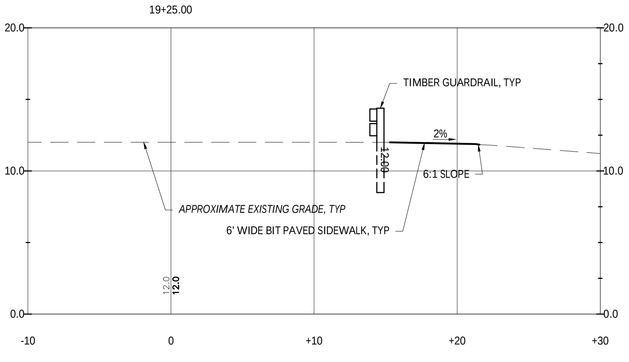


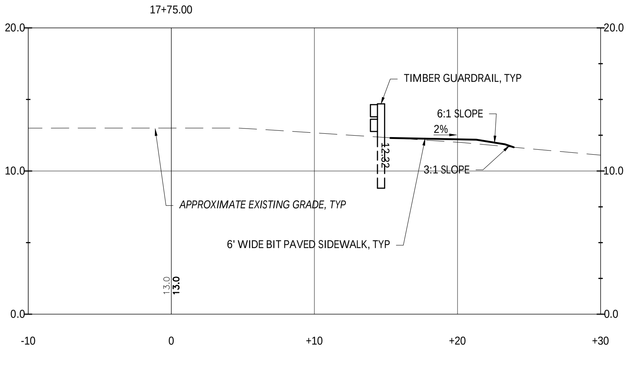


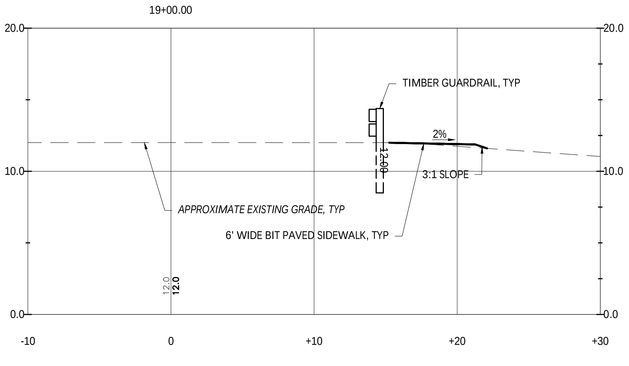


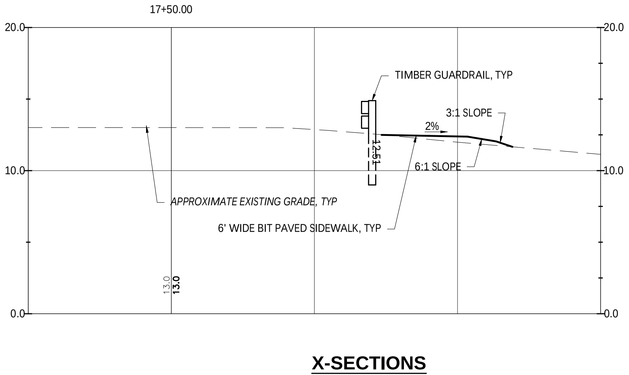


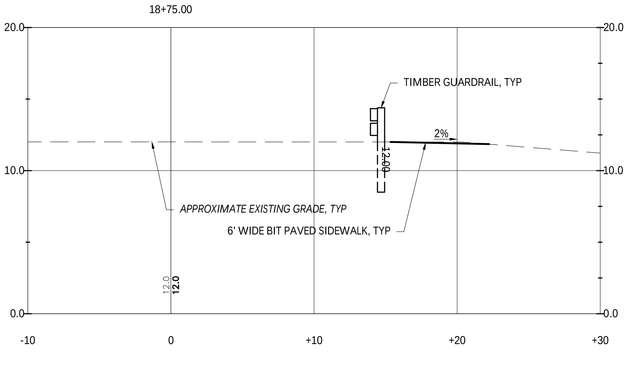












X-SECTIONS

SCALE
VERT: 1"=5'
HORIZ: 1"=5'

C-27 DRAWING

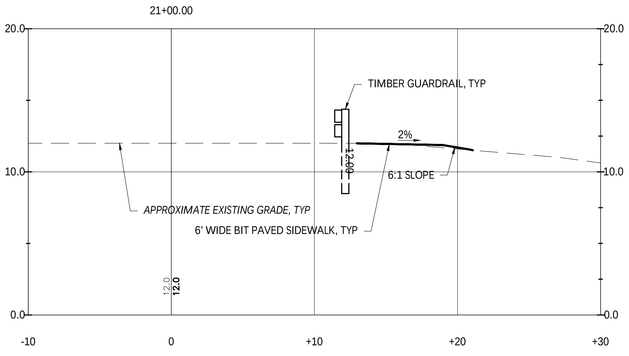
TOWN OF WELLS
HARBOR ROAD PEDESTRIAN IMPROVEMENTS
WELLS, MAINE

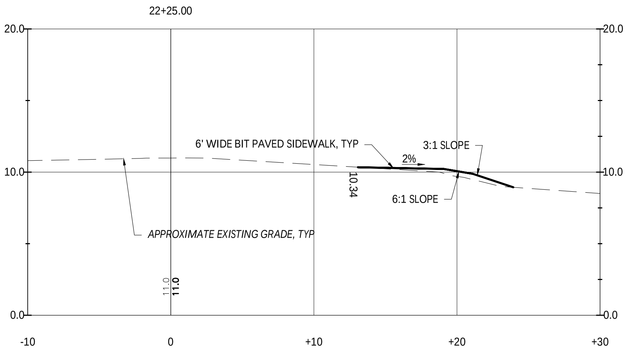
CROSS SECTIONS
STA 17+50 TO STA 19+75

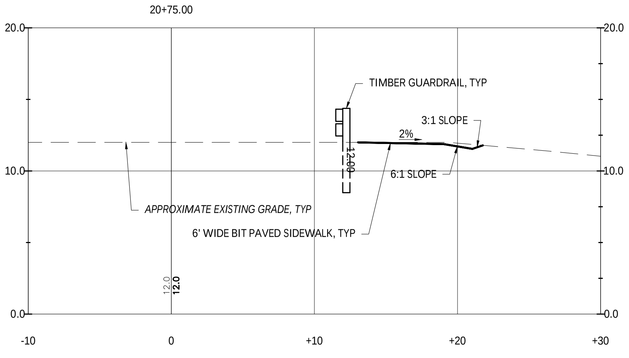
WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

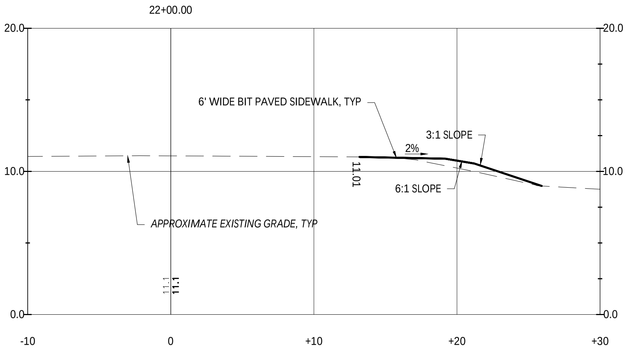
DESIGNED BY: M.GUE
CAD COORD: M.LAP
CAD: M.LAP
CHECKED BY: M.GUE
DATE: 10-09-2020
APPROVED BY: J.WIE
DATE: 10-09-2020
PROJECT NO: 20067A

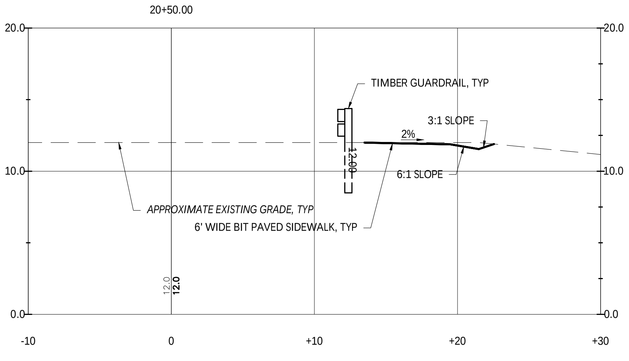
NO	SUBMISSIONS/REVISIONS	APP'D	DATE
	FINAL PSE REVIEW	J.WIE	10/20
1			
2			
3			
4			

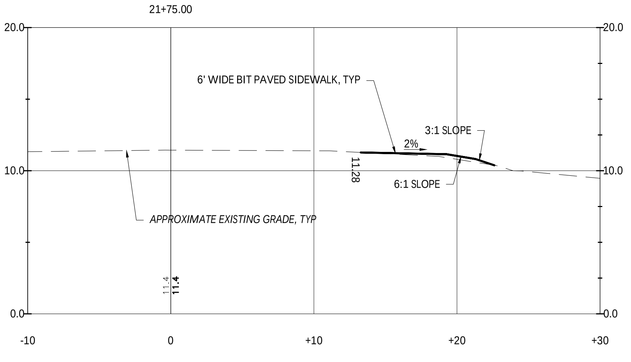


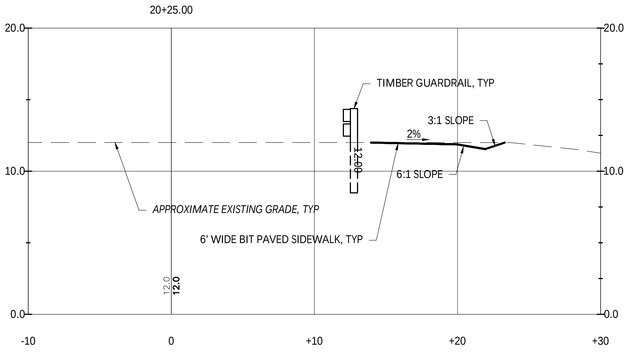


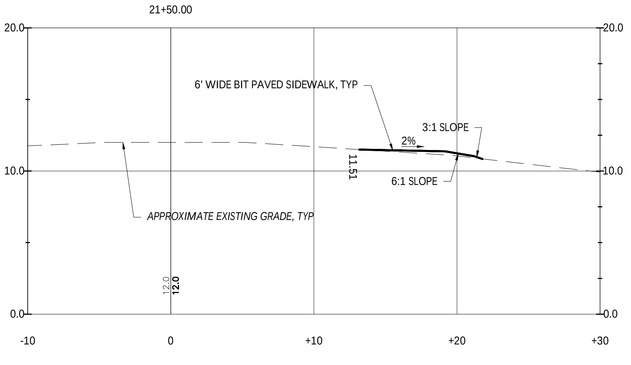


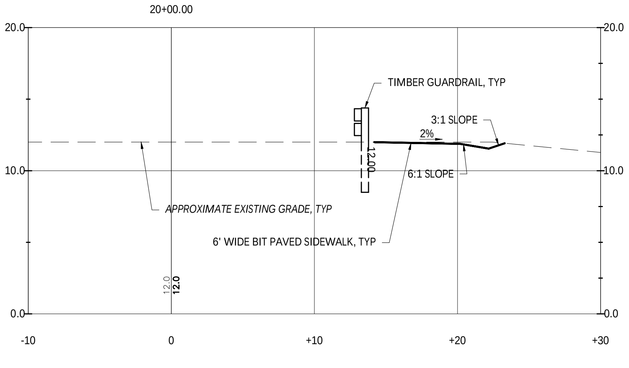


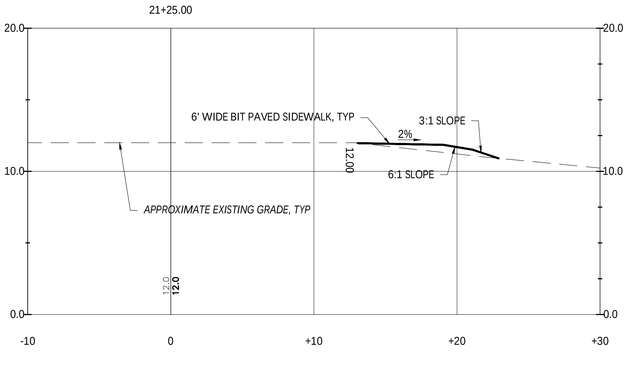












X-SECTIONS

SCALE
VERT: 1"=5'
HORIZ: 1"=5'

C-28 DRAWING

TOWN OF WELLS
HARBOR ROAD PEDESTRIAN IMPROVEMENTS
WELLS, MAINE

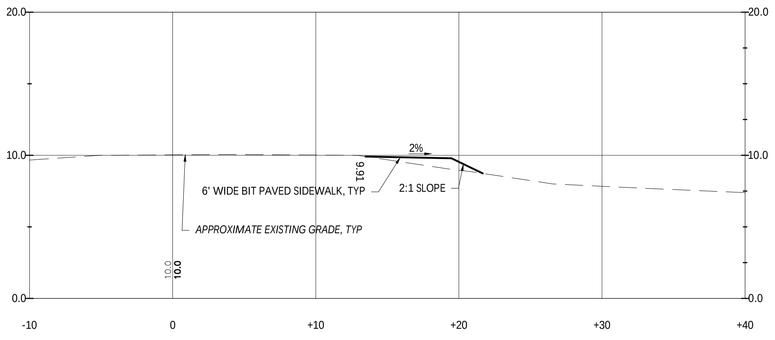
CROSS SECTIONS
STA 20+00 TO STA 22+25

WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

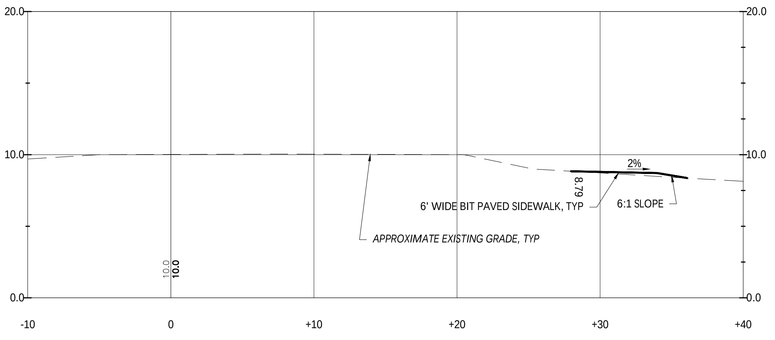
DESIGNED BY: M.GUE
CAD COORD: M.LAP
CAD: M.LAP
CHECKED BY: M.GUE
DATE: 10-09-2020
APPROVED BY: J.WIE
DATE: 10-09-2020
PROJECT NO: 20067A

NO	SUBMISSIONS/REVISIONS	APP'D	DATE
	FINAL PSE REVIEW	J.WIE	10/20
1			
2			
3			
4			

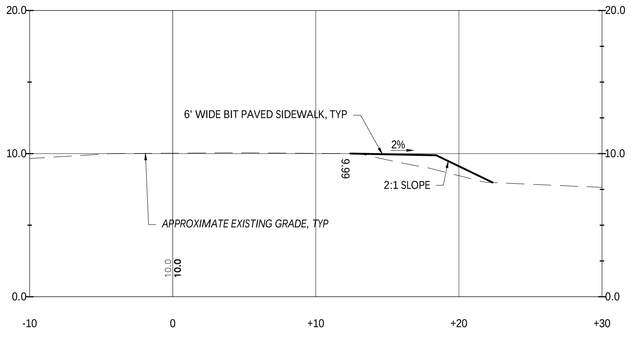
23+50.00



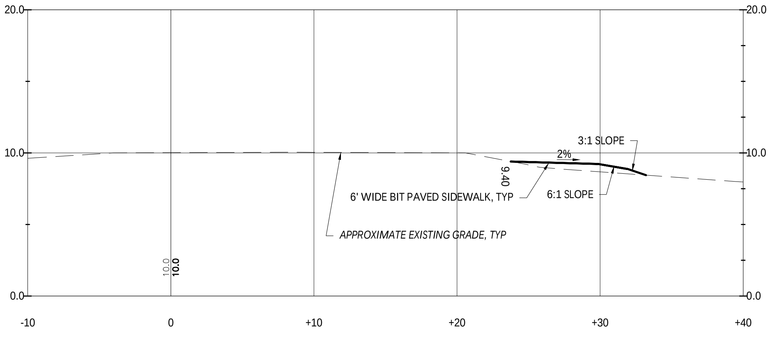
24+50.00



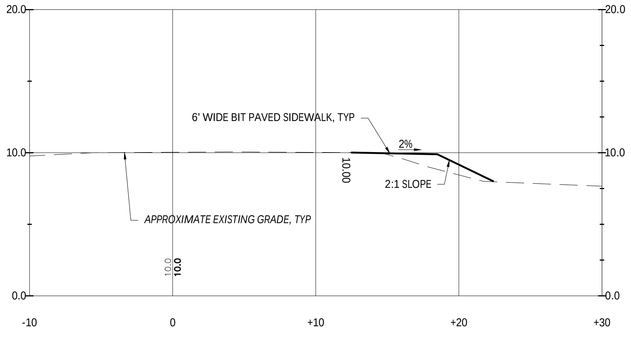
23+25.00



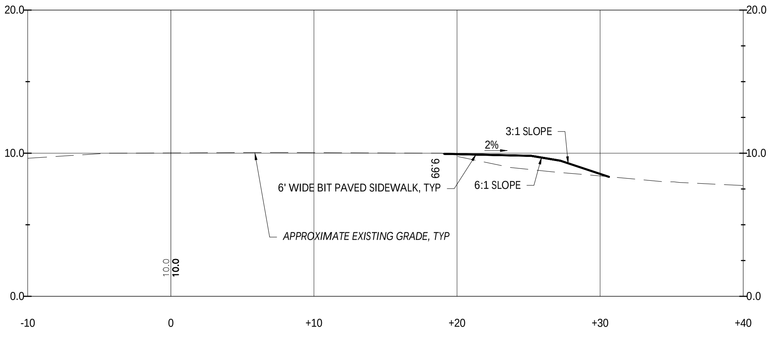
24+25.00



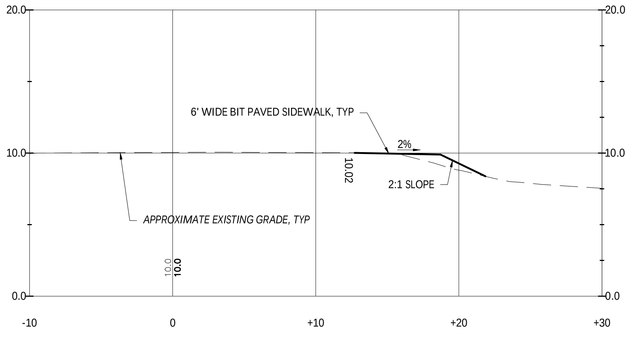
23+00.00



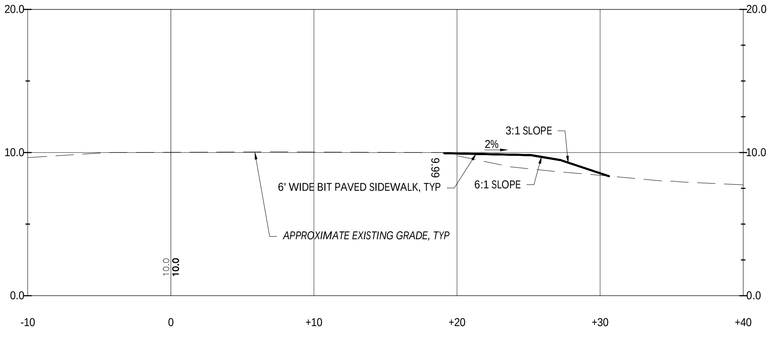
24+00.00



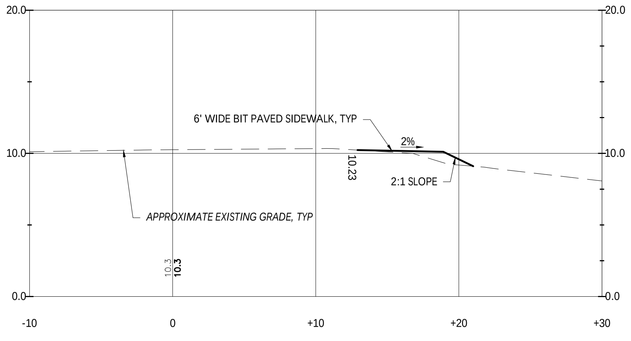
22+75.00



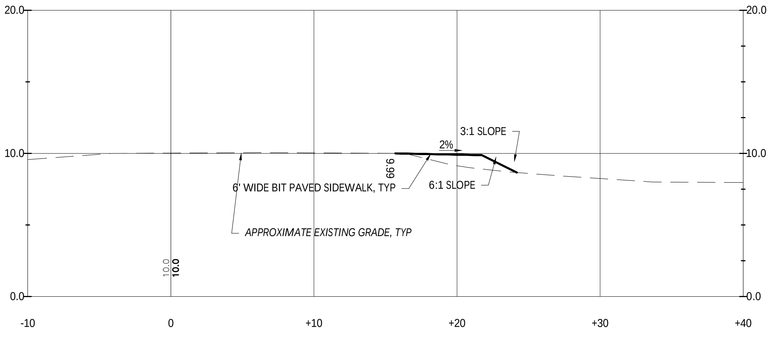
24+00.00



22+50.00



23+75.00



X-SECTIONS

SCALE
VERT: 1"=5'
HORIZ: 1"=5'

C-29 DRAWING

TOWN OF WELLS
HARBOR ROAD PEDESTRIAN IMPROVEMENTS
WELLS, MAINE

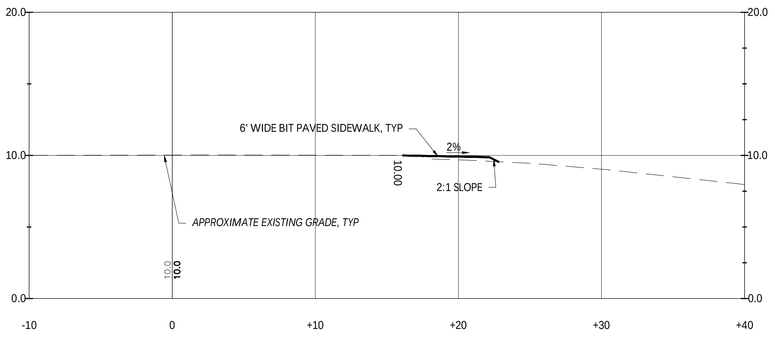
CROSS SECTIONS
STA 22+50 TO STA 24+50

WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

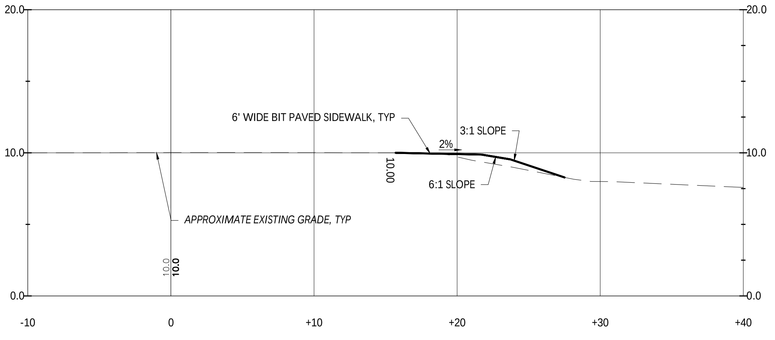
DESIGNED BY: M.GUE
CAD COORD: M.LAP
CAD: M.LAP
CHECKED BY: M.GUE
DATE: 10-09-2020
APPROVED BY: J.WIE
DATE: 10-09-2020
PROJECT NO: 20067A

NO	SUBMISSIONS/REVISIONS	APP'D	DATE
	FINAL PSE REVIEW	J.WIE	10/20
1			
2			
3			
4			

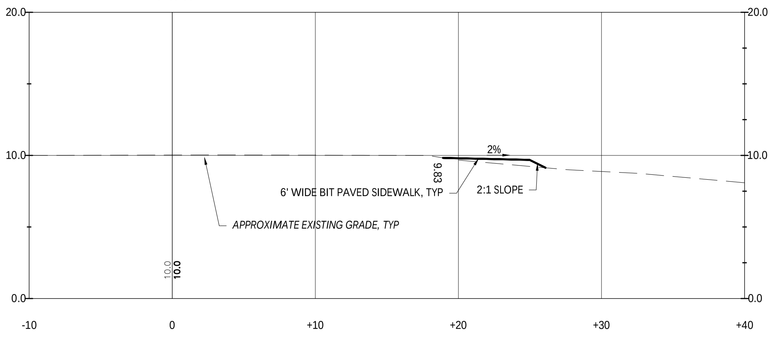
25+75.00



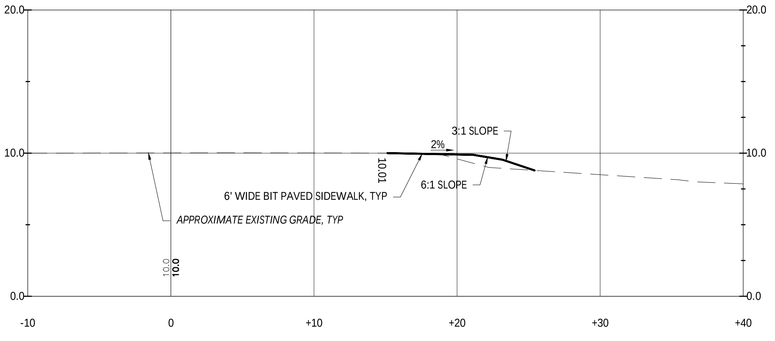
27+00.00



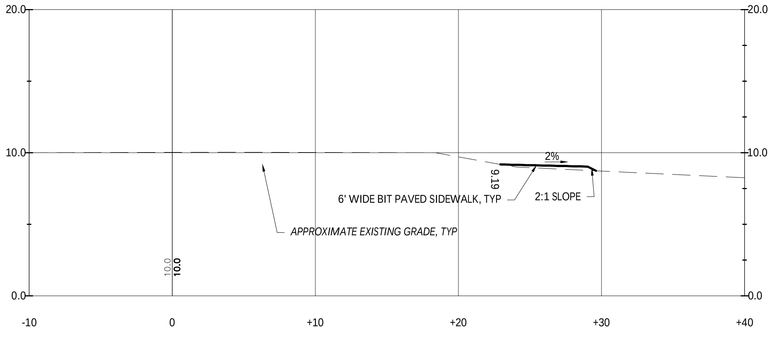
25+50.00



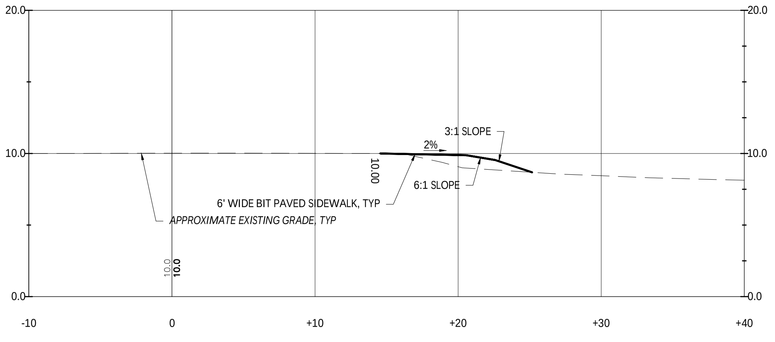
26+75.00



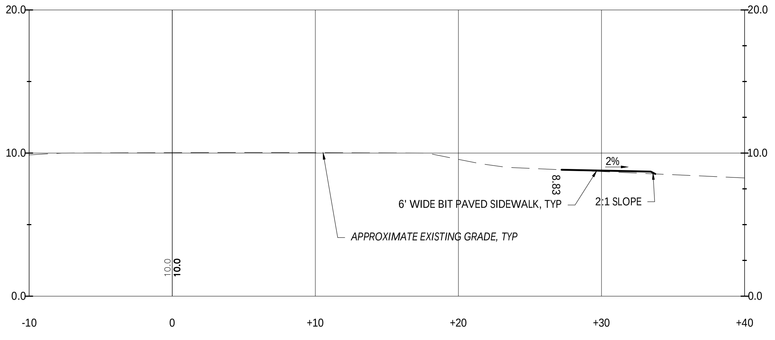
25+25.00



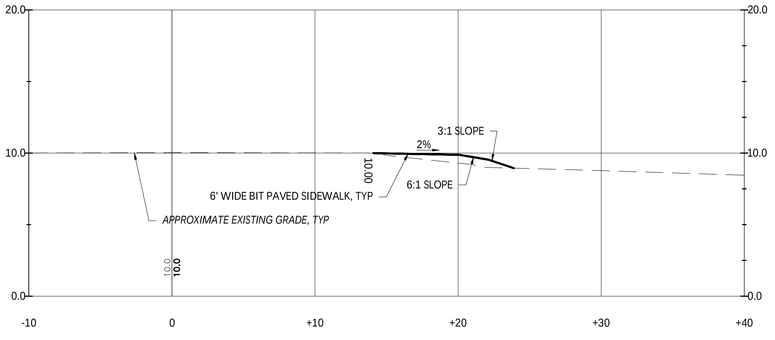
26+50.00



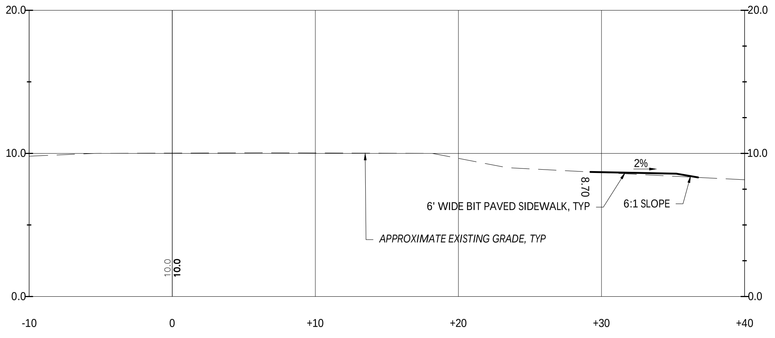
25+00.00



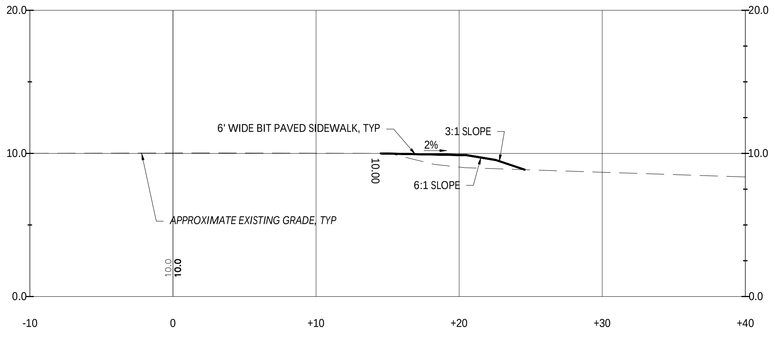
26+25.00



24+75.00



26+00.00



X-SECTIONS

SCALE
VERT: 1"=5'
HORIZ: 1"=5'

C-30 DRAWING

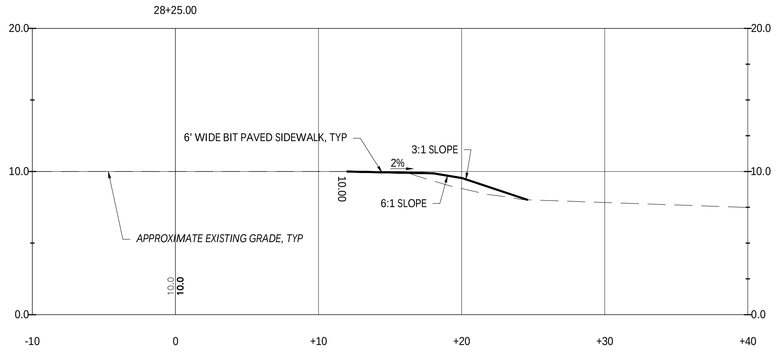
TOWN OF WELLS
HARBOR ROAD PEDESTRIAN IMPROVEMENTS
WELLS, MAINE

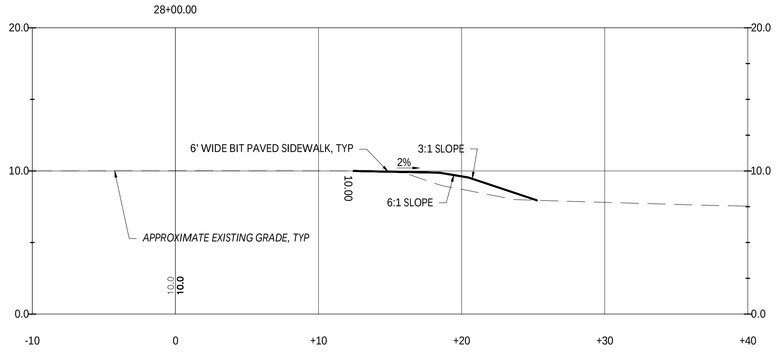
STA 24+75 TO STA 27+00
CROSS SECTIONS

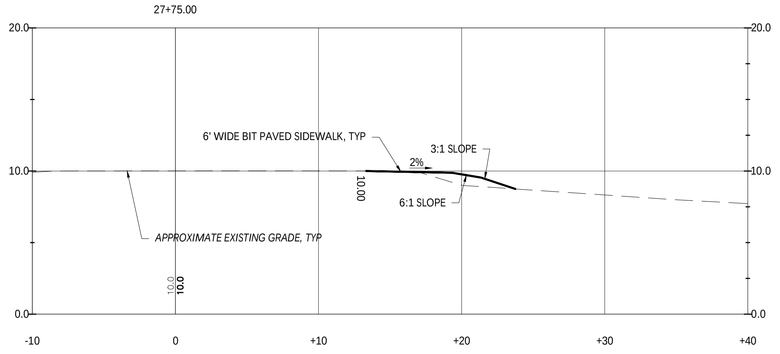
WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

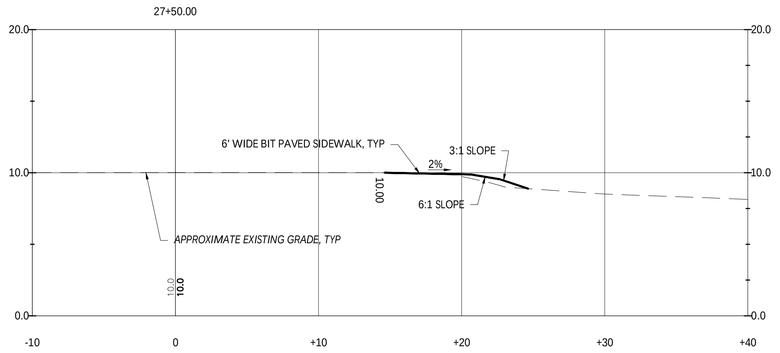
DESIGNED BY: M.GUE
CAD COORD: M.LAP
CAD: M.LAP
CHECKED BY: M.GUE
DATE: 10-09-2020
APPROVED BY: J.WIE
DATE: 10-09-2020
PROJECT NO: 20067A

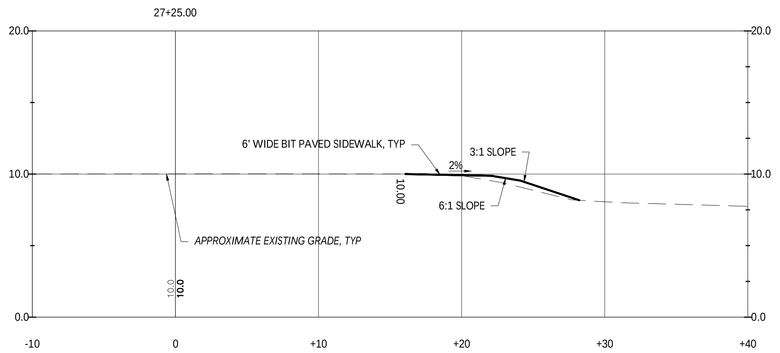
NO	SUBMISSIONS/REVISIONS	APP'D	DATE
	FINAL PSE REVIEW	J.WIE	10/20
1			
2			
3			
4			

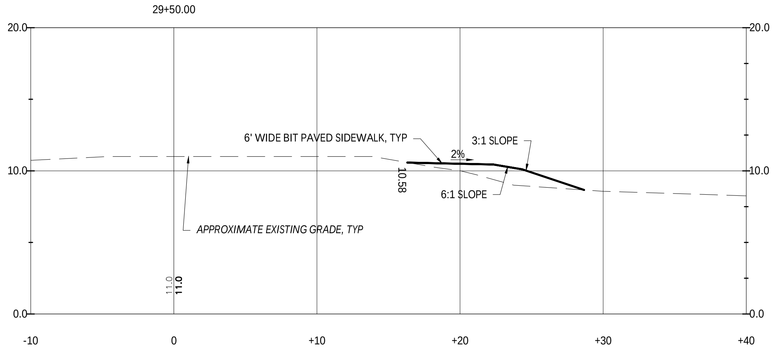


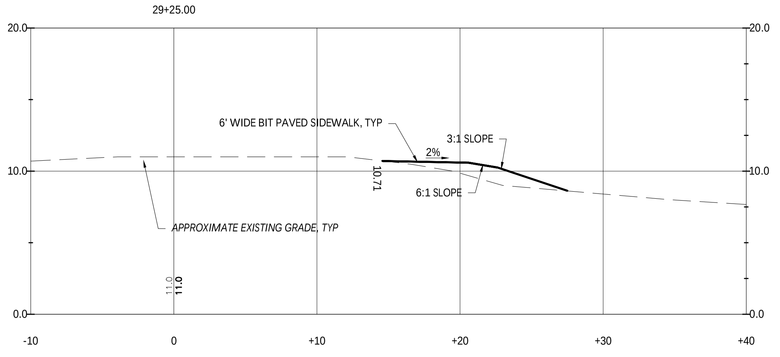


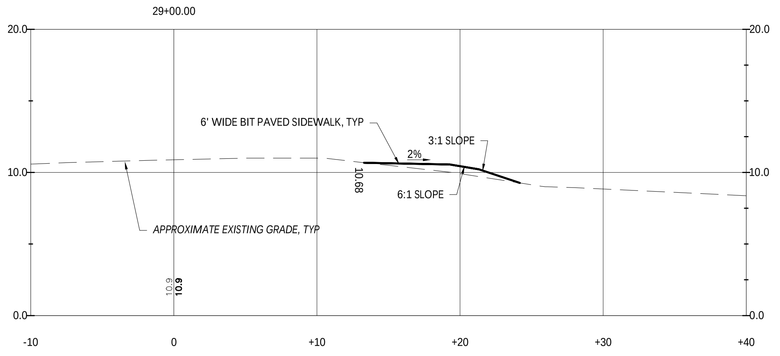


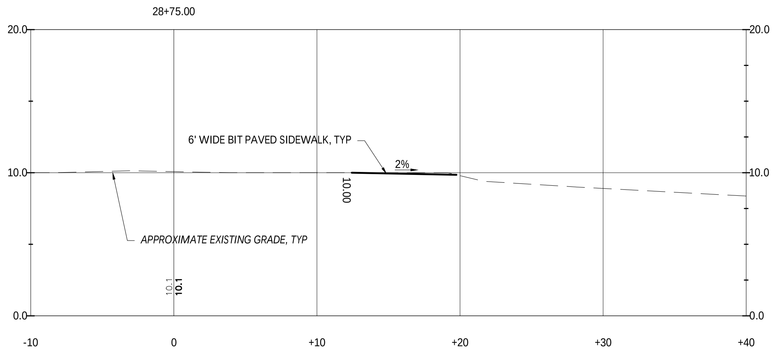


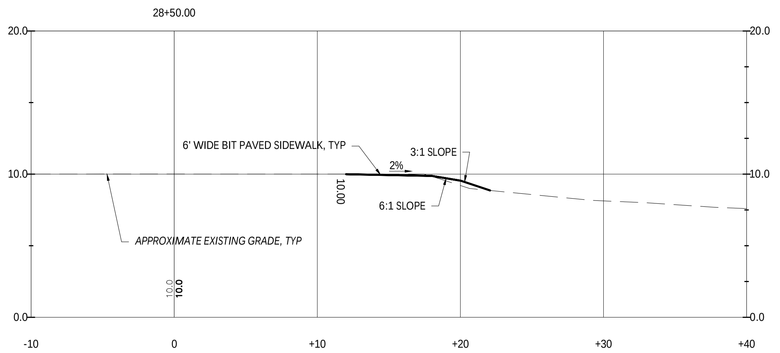












X-SECTIONS

SCALE
VERT: 1"=5'
HORIZ: 1"=5'

C-31 DRAWING

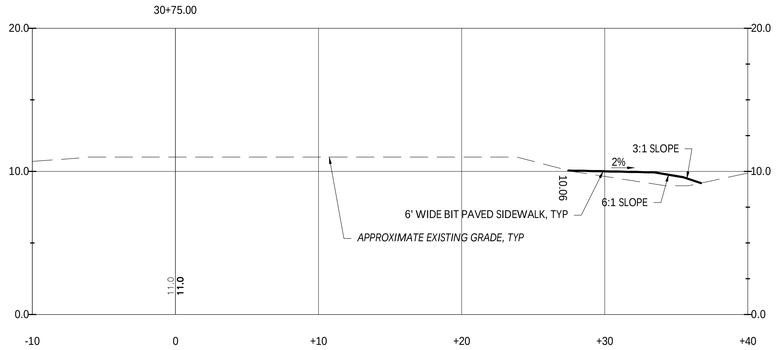
TOWN OF WELLS
HARBOR ROAD PEDESTRIAN IMPROVEMENTS
WELLS, MAINE

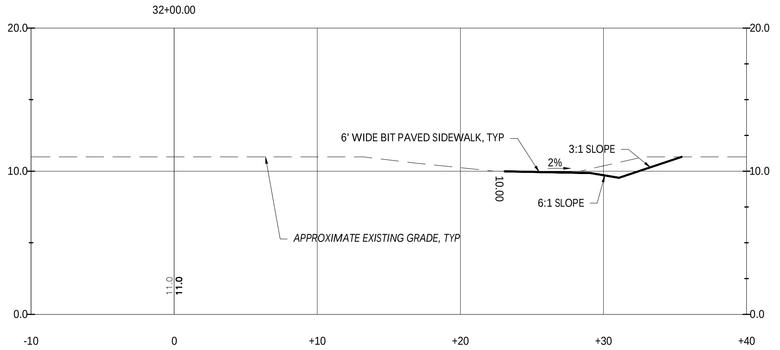
CROSS SECTIONS
STA 27+25 TO STA 29+50

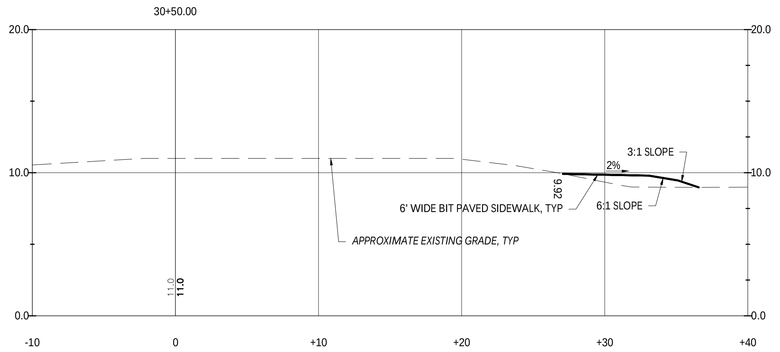
WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

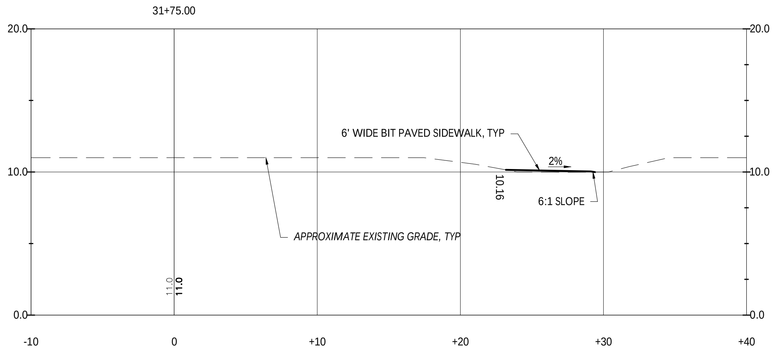
DESIGNED BY: M.GUE
CAD COORD: M.LAP
CAD: M.LAP
CHECKED BY: M.GUE
DATE: 10-09-2020
APPROVED BY: J.WIE
DATE: 10-09-2020
PROJECT NO: 20067A

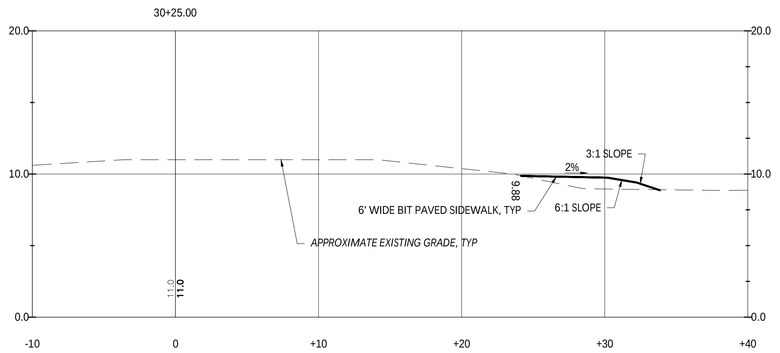
NO	SUBMISSIONS/REVISIONS	APP'D	DATE
	FINAL PSE REVIEW	J.WIE	10/20
1			
2			
3			
4			

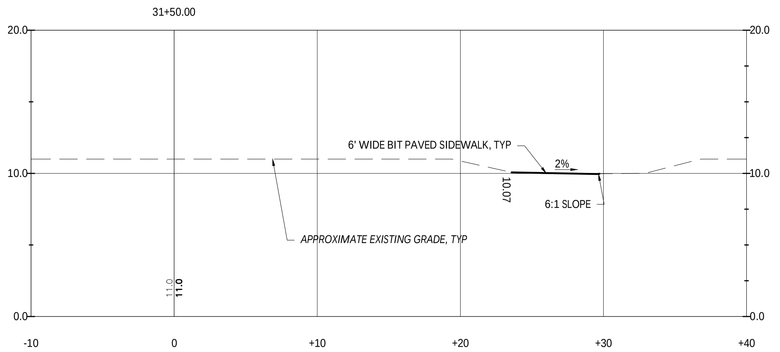


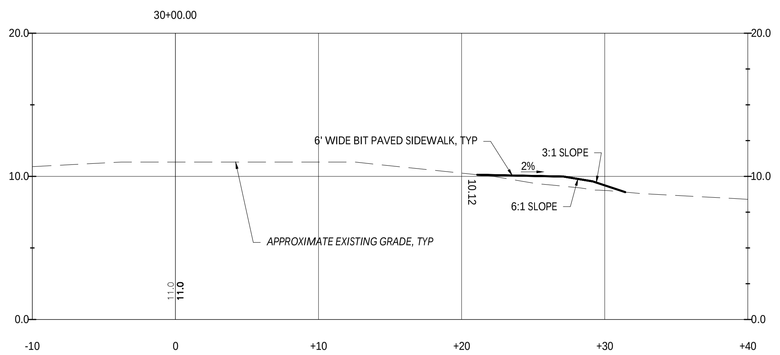


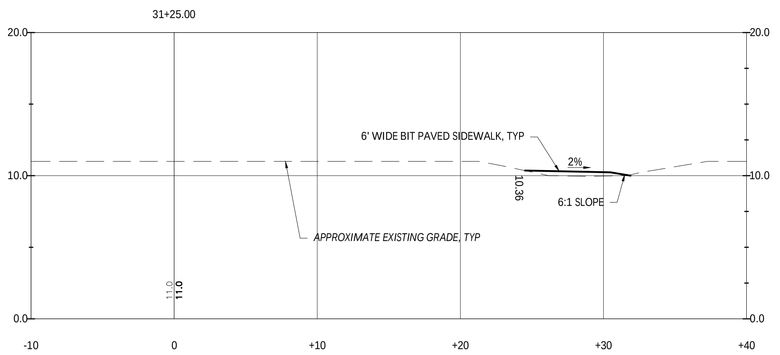


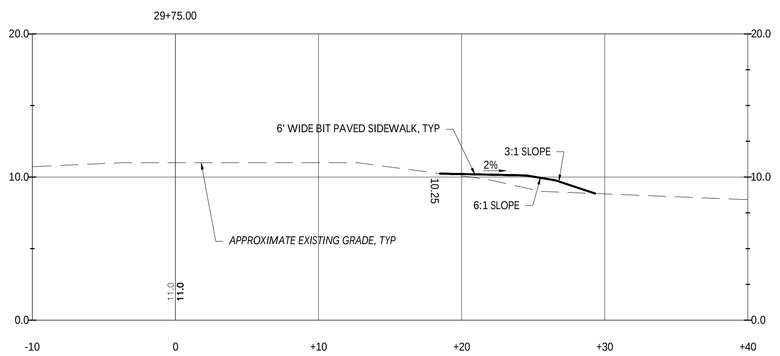


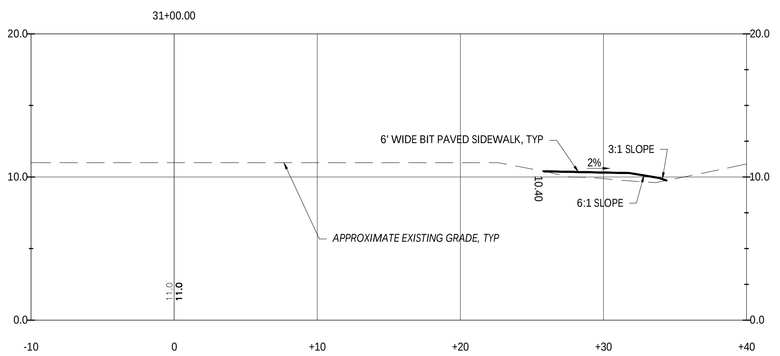












X-SECTIONS

SCALE
VERT: 1"=5'
HORIZ: 1"=5'

C-32 DRAWING

TOWN OF WELLS
HARBOR ROAD PEDESTRIAN IMPROVEMENTS
WELLS, MAINE

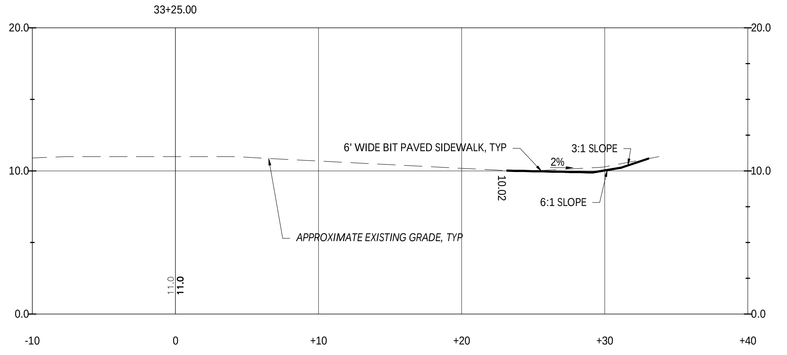
CROSS SECTIONS
STA 29+75 TO STA 32+00

WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

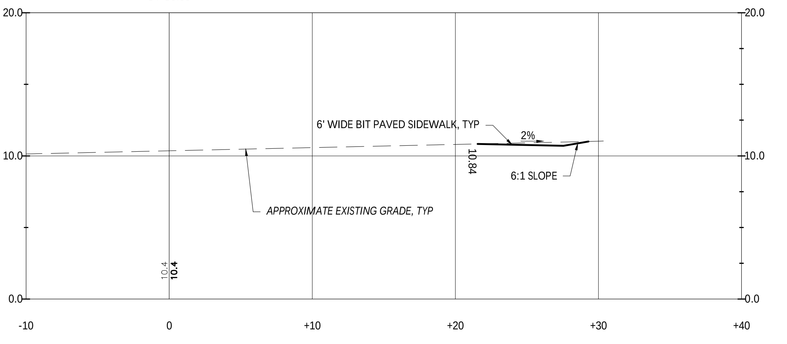
DESIGNED BY: M.GUE
CAD COORD: M.LAP
CAD: M.LAP
CHECKED BY: M.GUE
DATE: 10-09-2020
APPROVED BY: J.WIE
DATE: 10-09-2020
PROJECT NO: 20067A

NO	SUBMISSIONS/REVISIONS	APP'D	DATE
	FINAL PSE REVIEW	J.WIE	10/20
1			
2			
3			
4			

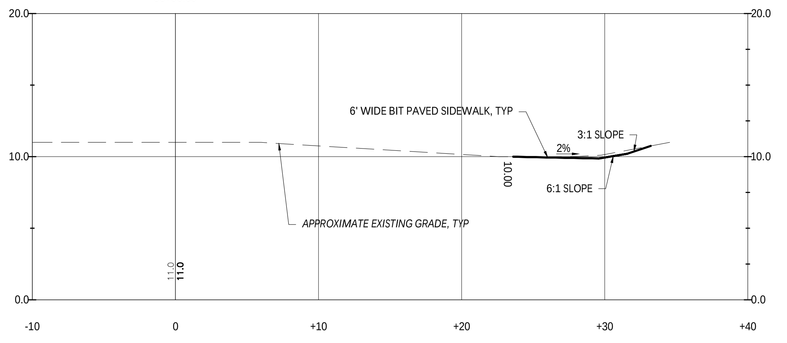
33+25.00



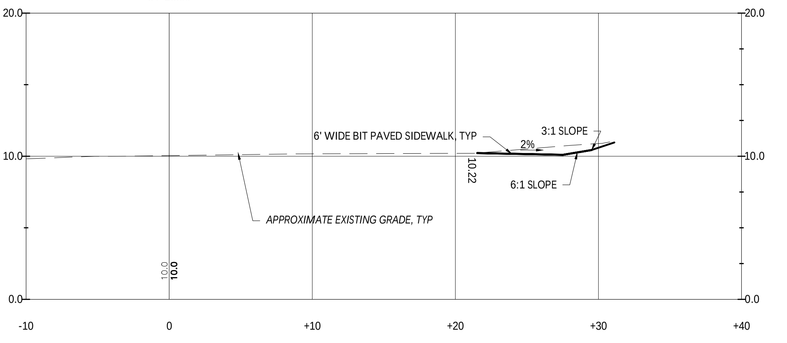
34+50.00



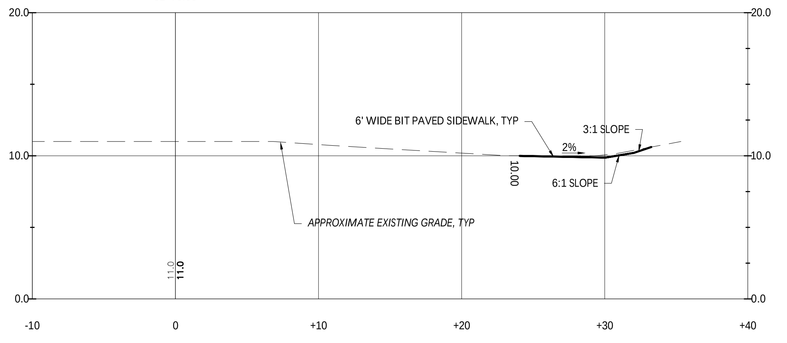
33+00.00



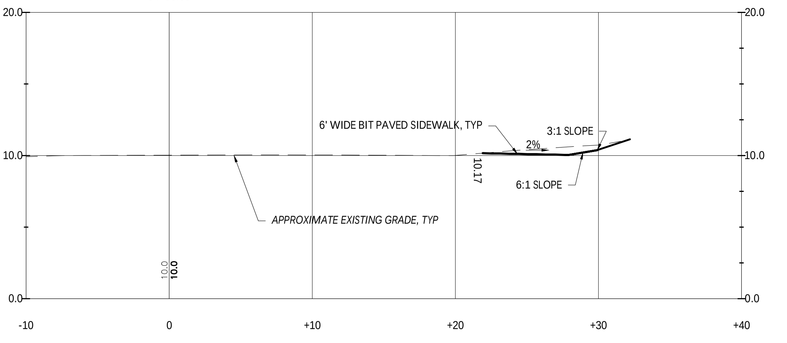
34+25.00



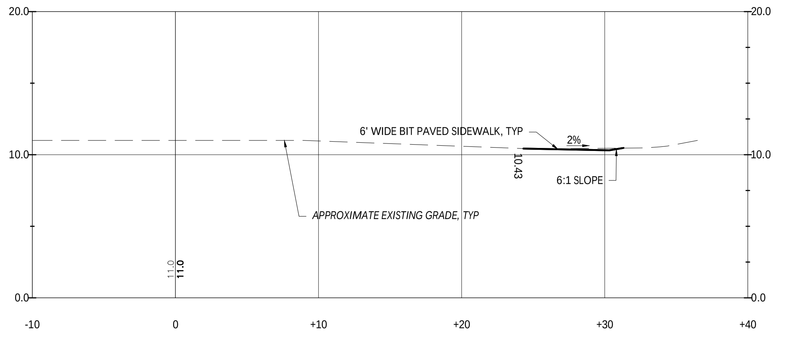
32+75.00



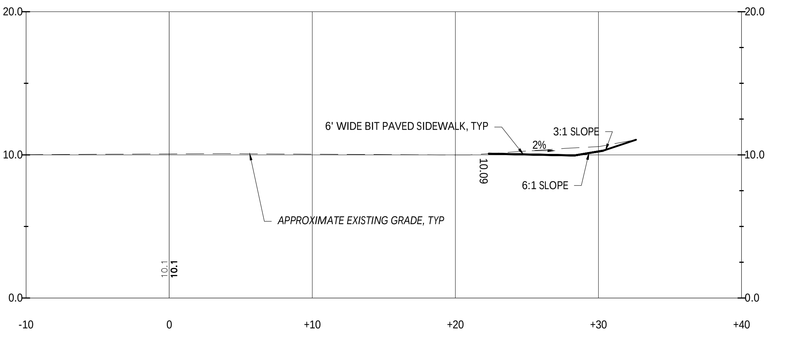
34+00.00



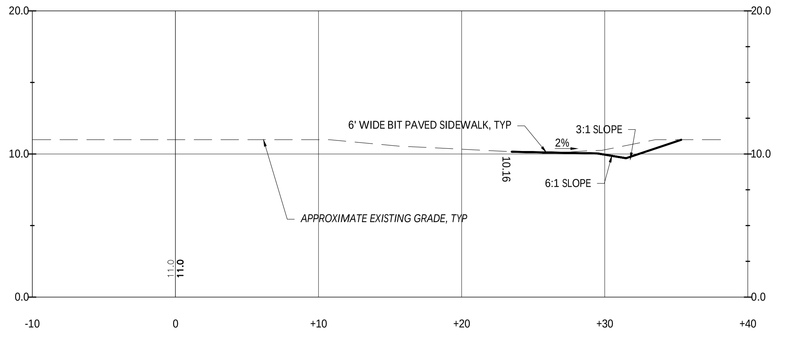
32+50.00



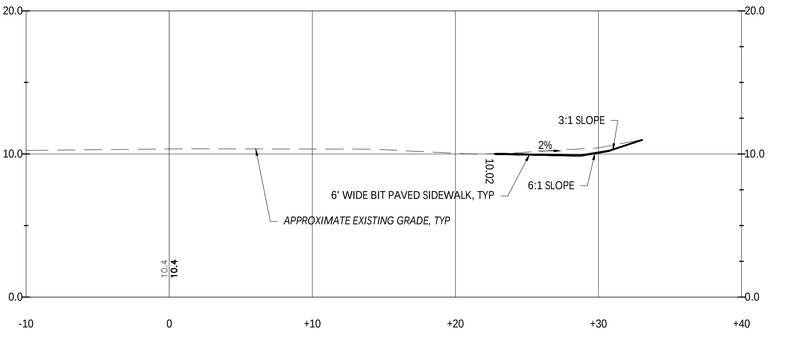
33+75.00



32+25.00



33+50.00



X-SECTIONS

SCALE
VERT: 1"=5'
HORIZ: 1"=5'

C-33 DRAWING

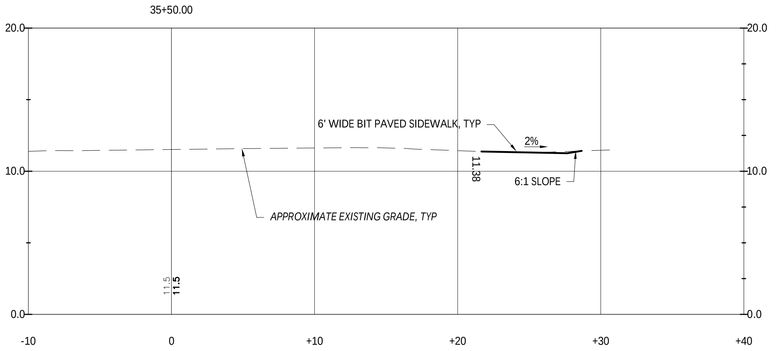
TOWN OF WELLS
HARBOR ROAD PEDESTRIAN IMPROVEMENTS
WELLS, MAINE

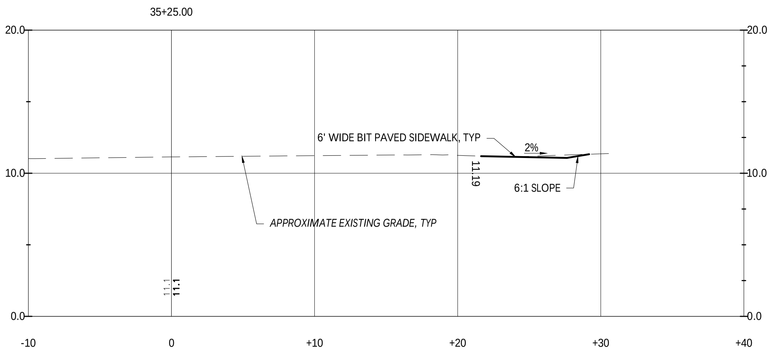
CROSS SECTIONS
STA 32+25 TO STA 34+50

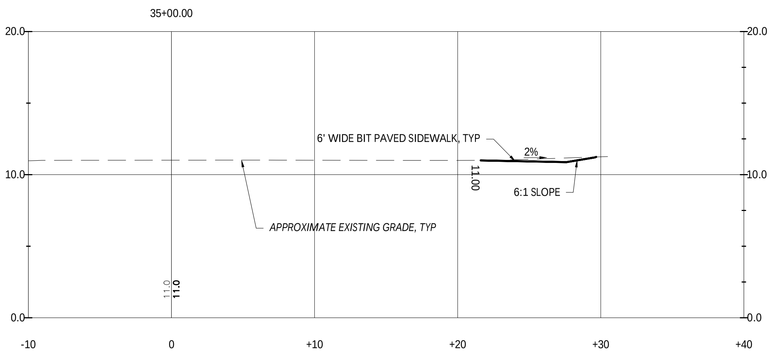
WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

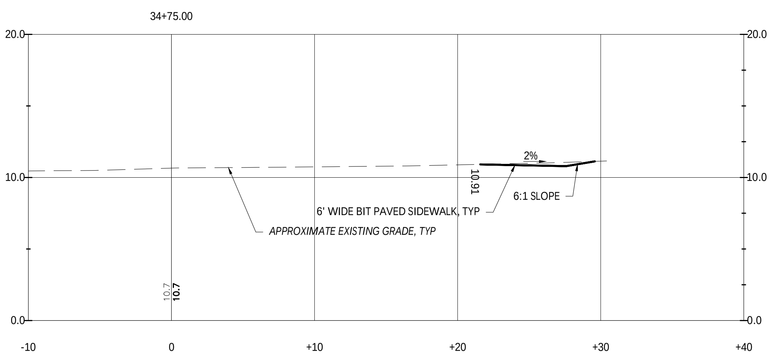
DESIGNED BY: M.GUE
CAD COORD: M.LAP
CAD: M.LAP
CHECKED BY: M.GUE
DATE: 10-09-2020
APPROVED BY: J.WIE
DATE: 10-09-2020
PROJECT NO: 20067A

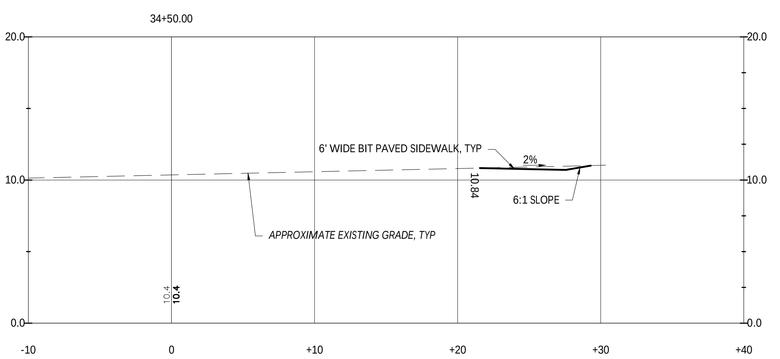
NO	SUBMISSIONS/REVISIONS	APP'D	DATE
	FINAL PSE REVIEW	J.WIE	10/20
1			
2			
3			
4			





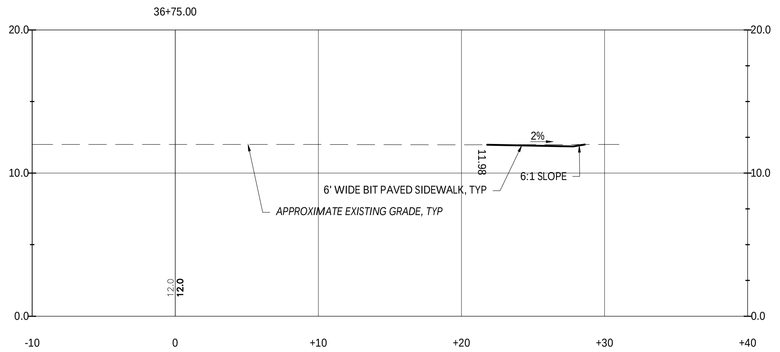


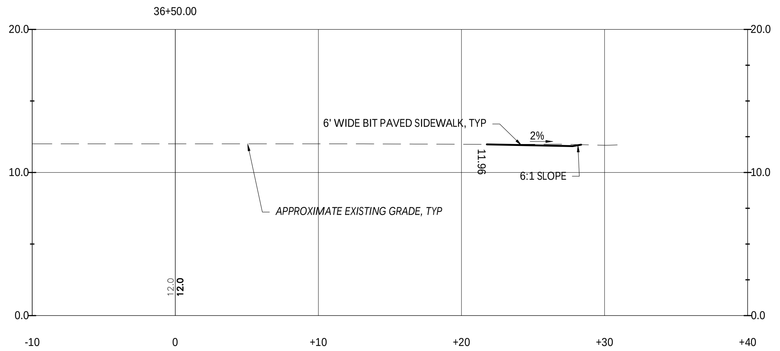


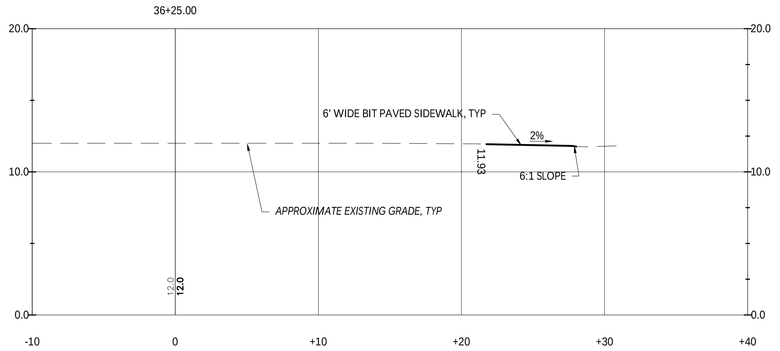


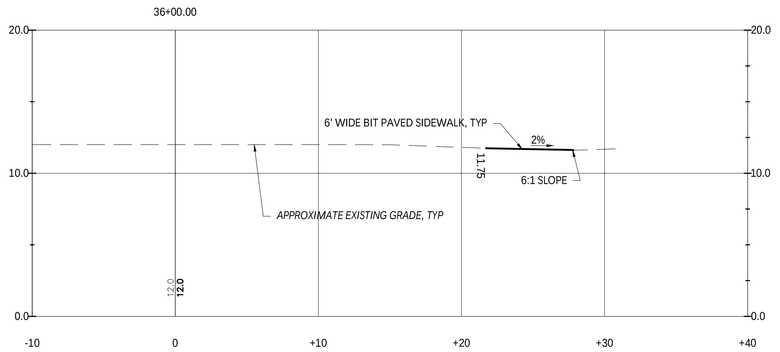
X-SECTIONS

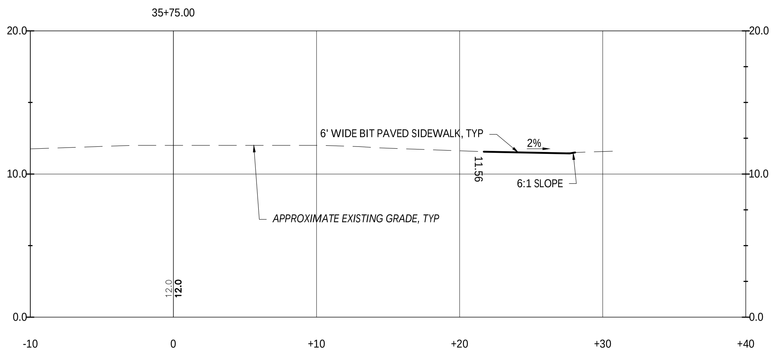
SCALE
VERT: 1"=5'
HORIZ: 1"=5'











C-34 DRAWING

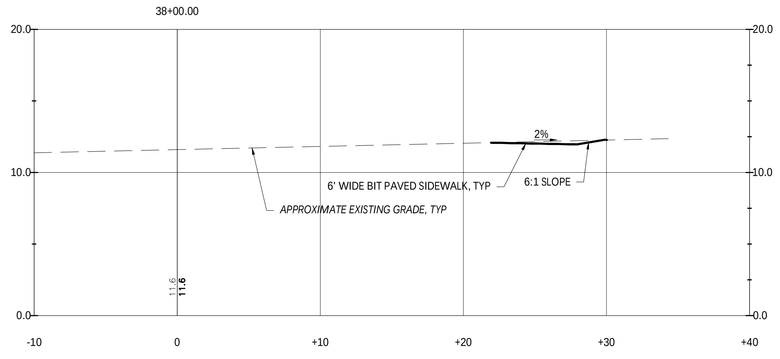
TOWN OF WELLS
HARBOR ROAD PEDESTRIAN IMPROVEMENTS
WELLS, MAINE

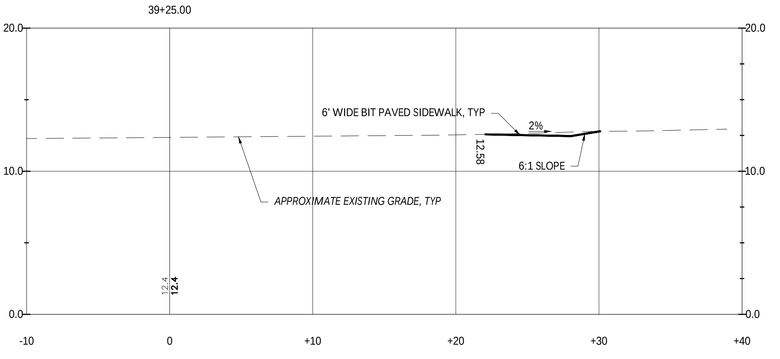
CROSS SECTIONS
STA 34+50 TO STA 36+75

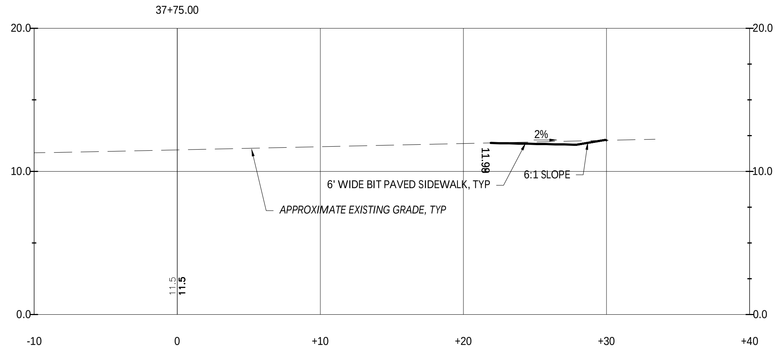
WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

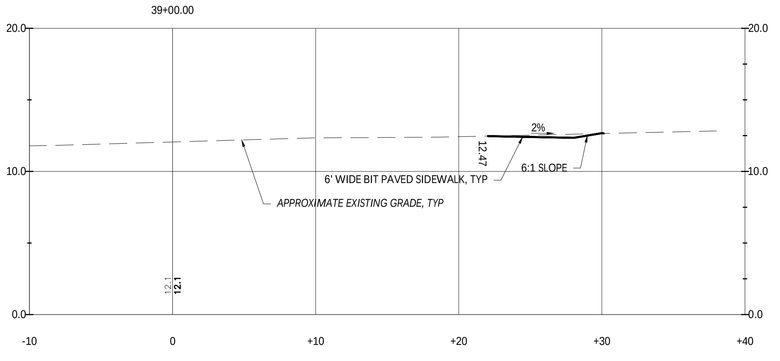
DESIGNED BY: M.GUE
CAD COORD: M.LAP
CAD: M.LAP
CHECKED BY: M.GUE
DATE: 10-09-2020
APPROVED BY: J.WIE
DATE: 10-09-2020
PROJECT NO: 20067A

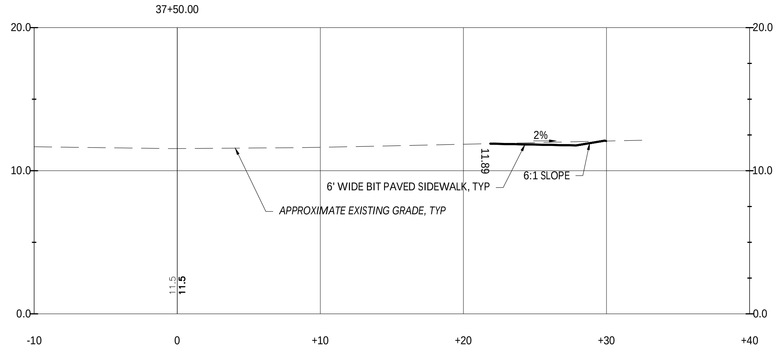
NO	SUBMISSIONS/REVISIONS	APP'D	DATE
	FINAL PSE REVIEW	J.WIE	10/20
1			
2			
3			
4			

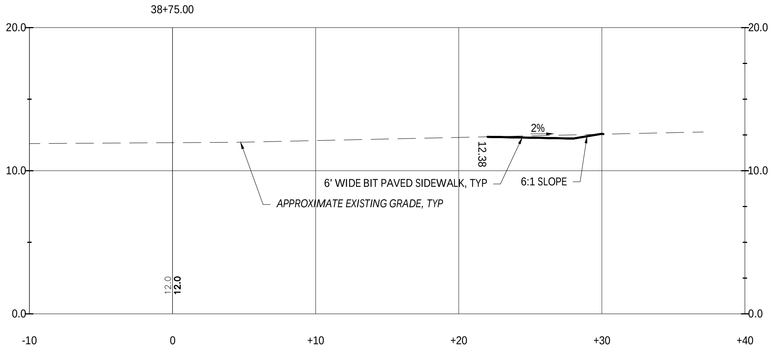


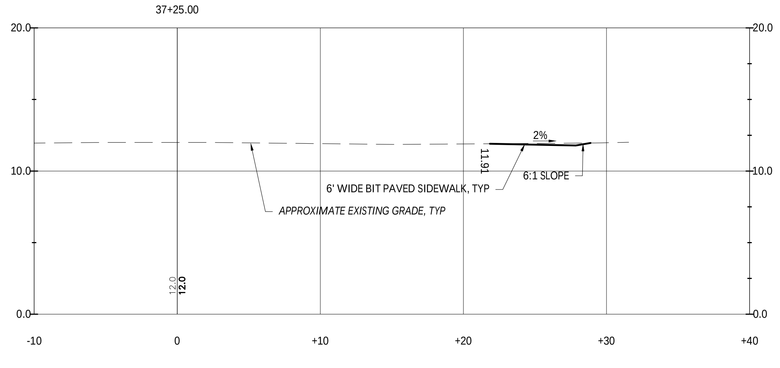


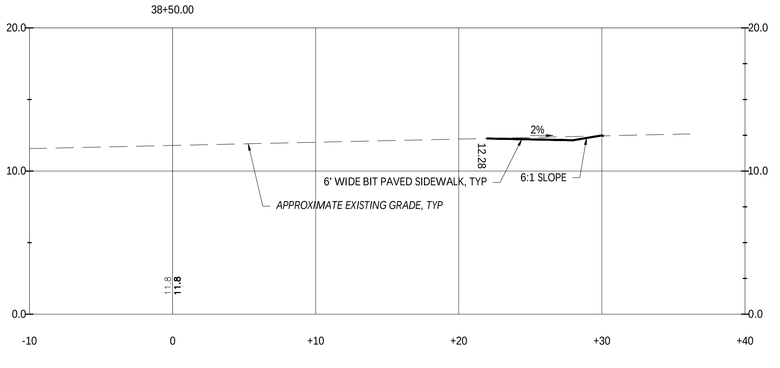


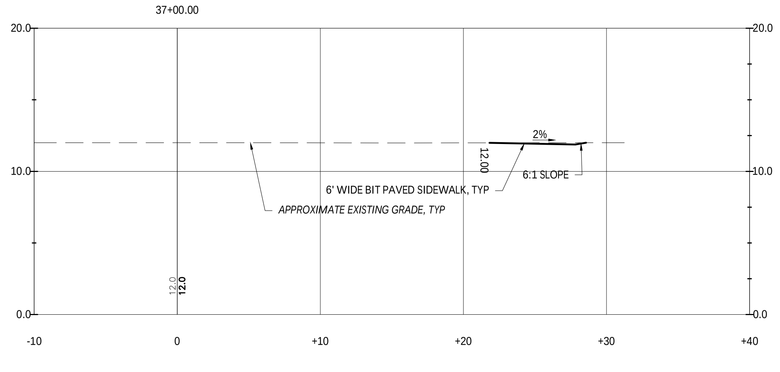


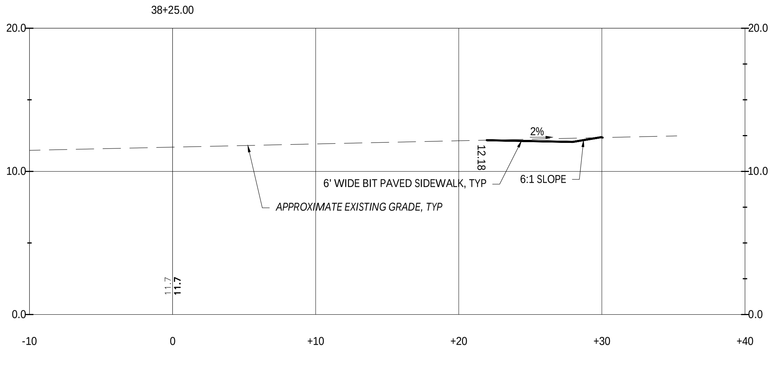












X-SECTIONS

SCALE
VERT: 1"=5'
HORIZ: 1"=5'

C-35 DRAWING

TOWN OF WELLS
HARBOR ROAD PEDESTRIAN IMPROVEMENTS
WELLS, MAINE

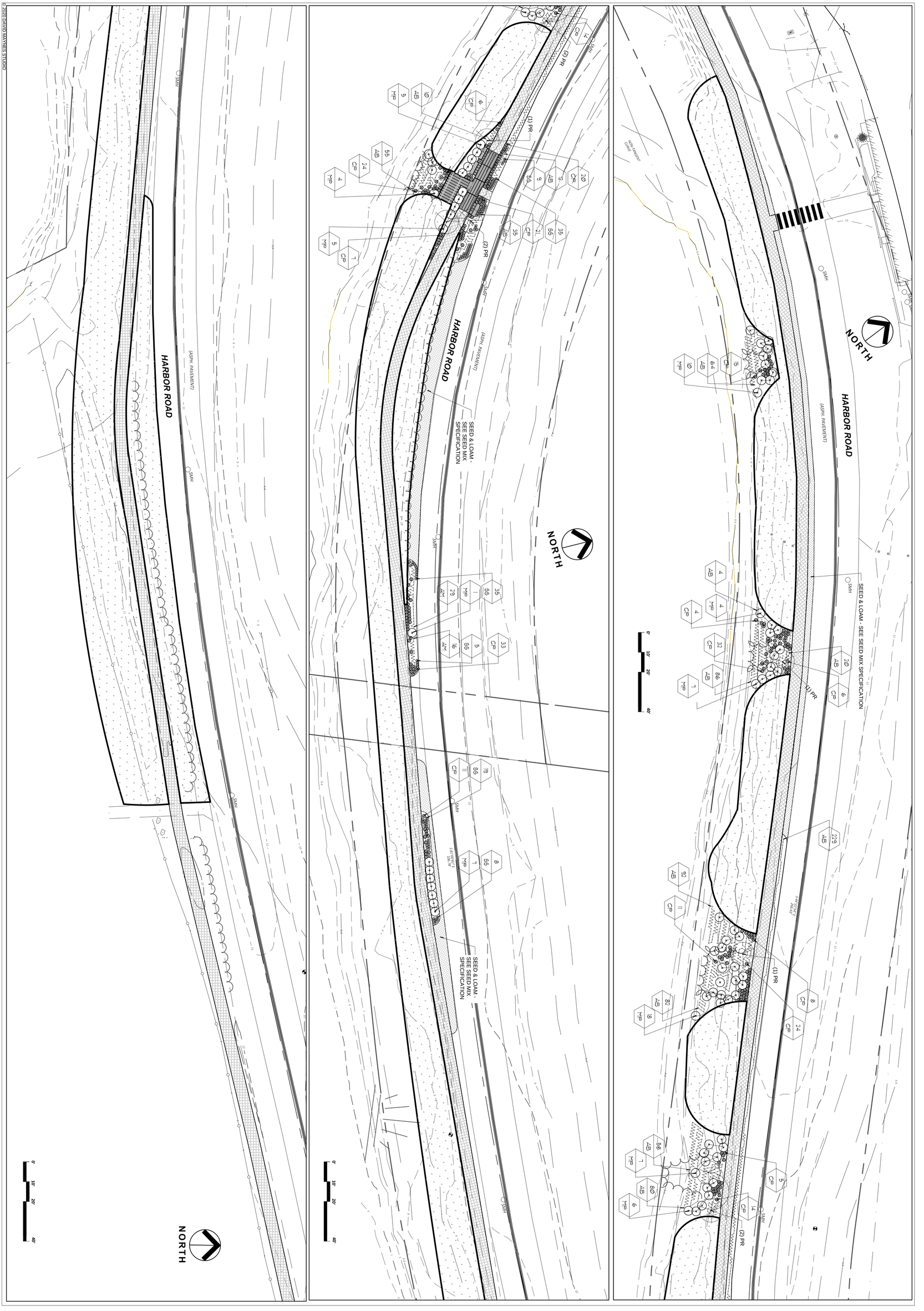
CROSS SECTIONS
STA 37+00 TO STA 39+25

WRIGHT-PIERCE
Engineering a Better Environment
888.621.8156 | www.wright-pierce.com

DESIGNED BY: M.GUE
CAD COORD: M.LAP
CAD: M.LAP
CHECKED BY: M.GUE
DATE: 10-09-2020
APPROVED BY: J.WIE
DATE: 10-09-2020
PROJECT NO: 20067A

NO	SUBMISSIONS/REVISIONS	APP'D	DATE
	FINAL PSE REVIEW	J.WIE	10/20
1			
2			
3			
4			

DATE: 2020-10-07



L-1.0

TOWN OF WELLS - HARBOR ROAD PLANTING PLAN

TOWN OF WELLS, ME
OVERALL PLAN

Scale:				
Checked By:	DM			
Drawn By:	DM			
Design By:	DM			
Date:	10/09/2020			
Issued For:	**PSE REVIEW**	No.	Revisions	Date

davidmaynes STUDIO
26 Storer St. Kennebunk, ME. 04043 p: 207.351.6789

NEW SIDEWALK - SEE CIVIL PLAN

1 L-4.0 — WEATHERED QUARRY BLOCKS

PROPOSED PLANTING

1 L-4.0 — VIEWING PLATFORM & BOARDWALK NODE

1 L-4.0 — WEATHERED QUARRY BLOCKS

PROPOSED PLANTING

NORTH

EXISTING MATURE VEGETATION

PROPOSED PLANTING

NEW SIDEWALK - SEE CIVIL PLAN

PROPOSED PLANTING

EXISTING MATURE VEGETATION

PROPOSED PLANTING

9

10

8

9

8

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

DATE: 2020-10-07

davidmaynes STUDIO
26 Storer St. Kennebunk, ME. 04043 p: 207.351.6789

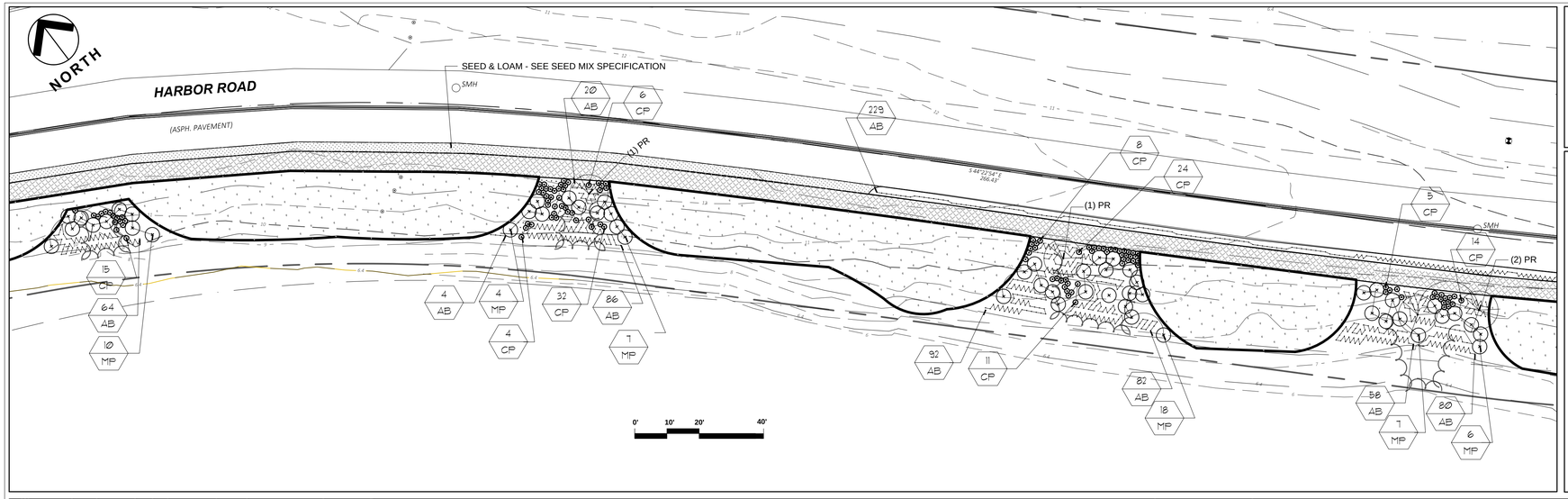
No.	Revisions	Date

Scale:
Checked By: DM
Drawn By: DM
Design By: DM
Date: 10/09/2020
Issued For: **PSE REVIEW**

TOWN OF WELLS - HARBOR ROAD PLANTING PLAN

TOWN OF WELLS, ME
BOARDWALK & VIEWING PLATFORM

L-2.0



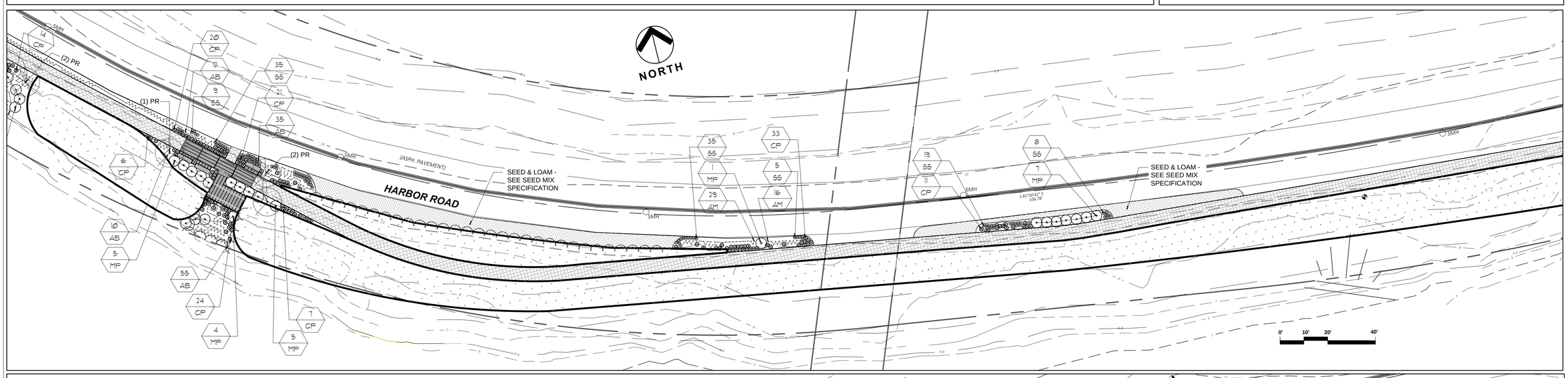
EXISTING VEGETATION TO REMAIN

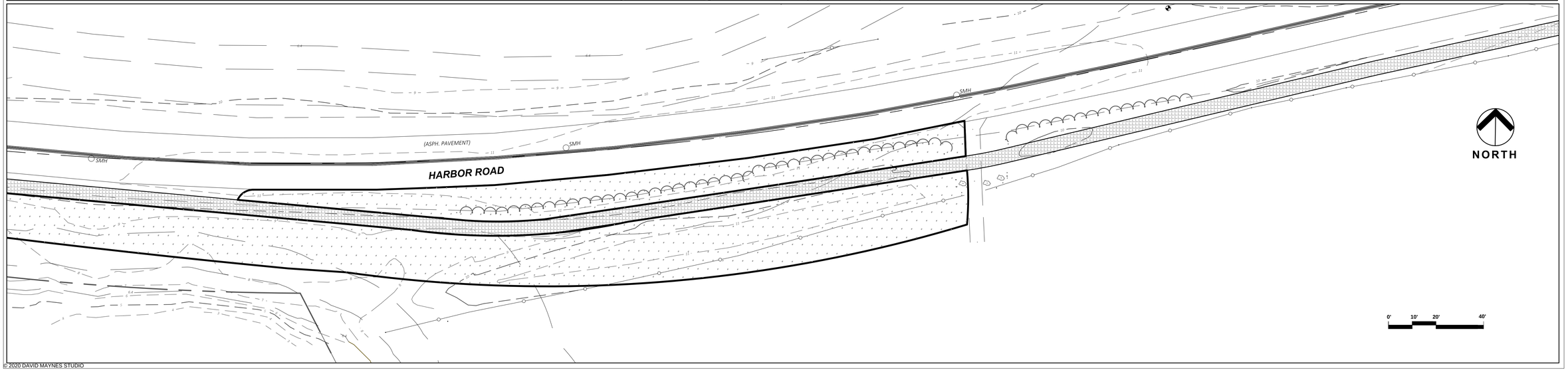
LOAM & SEED - SEE SEED SPECIFICATION

PLANT SCHEDULE - HARBOR ROAD IMPROVEMENTS
Town of Wells, ME & Rachel Carson Wildlife Refuge
davidmaynesSTUDIO
kennebunk, ME
24-Sep-20

NOTE: Plant ID shown with "asterick" shall be placed in field by designer

Harbor Road Planting						29-Jul-20
TYPE	QUANTITY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER
Trees						
	3	PR	*Pinus rigida*	Pitch Pine	8-10'	B&B
	4	PR	*Pinus rigida*	Pitch Pine	6-8'	B&B
Total Trees	7					
Shrubs & Woody Vines						
	25	* RC	*Rosa caroliniana*	Carolina Rose	#1	CONT
	255	CP	*Comptonia peregrina*	Sweetfern	#1	CONT
	60	MP	*Myrica pensylvanica - large*	Northern Bayberry	4'-5'	BB
	30	PM	*Prunus maritima*	Beach Plum	#1	CONT
Total Shrubs	370					
Perennials, Grasses, & Fern						
	111	SS	*Schizachyrium scoparium*	Little Bluestem	#1	CONT
	872	AB	*Ammophilia breviguiata*	American Beachgrass	#1	CONT
	75	*SV	*Solidago sempervirens*	Coneflower (mixed cultivars)	#1	CONT
	50	* LJ	*Lathyrus japonica*	Beach Pea	#1	CONT
Total Grasses	1108					
Seed Mix Specification - NEW ENGLAND COASTAL SALT TOLERANT GRASS MIX						
			Elymus canadensis	Canada Wild Rye		
			Festuca rubra	Red Fescue		
			Panicum amarum	Atlantic Coastal Panicgrass		
			Andropogon gerardii	Big Bluestem		
			Sorghastrum nutans	Big Bluestem		
			Panicum virgatum	Switchgrass		
			Juncus tenuis	Path Rush		





DATE: 2020-10-07

davidmaynes STUDIO
26 Storer St. Kennebunk, ME. 04043 p: 207.351.6789

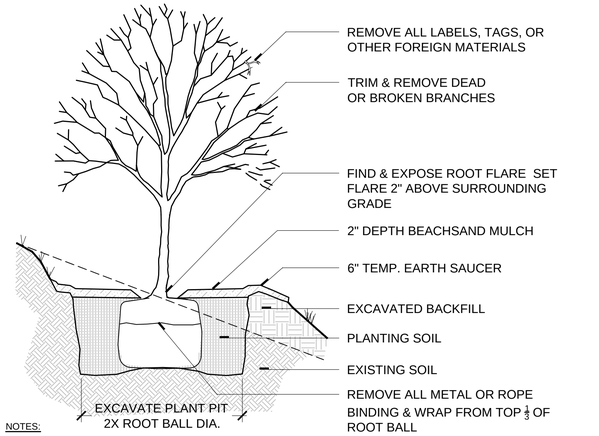
No.	Revisions	Date

Scale:
Checked By: DM
Drawn By: DM
Design By: DM
Date: 10/09/2020
Issued For: **PSE REVIEW**

TOWN OF WELLS - HARBOR ROAD PLANTING PLAN

TOWN OF WELLS, ME
PLANTING PLAN

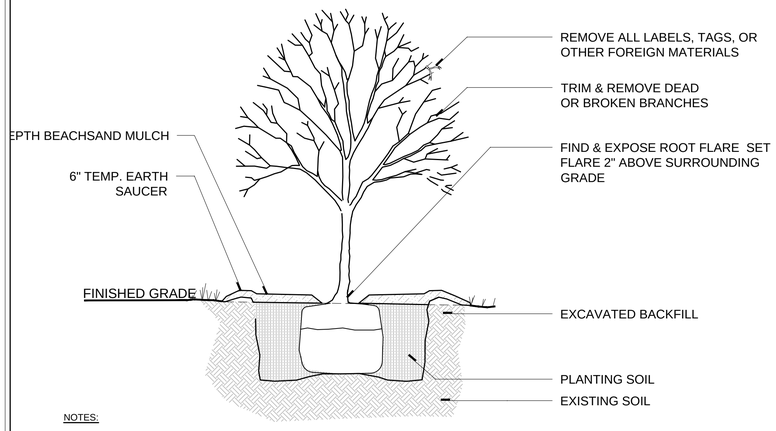
L-3.0



NOTES:

1. TREE TO BE SET PLUMB.
2. SECURE TREE AS MAY BE REQUIRED ACCORDING TO TREE SIZE, LOCATION, & WIND/WEATHER CONDITIONS.
3. IF USING ROOTBALL STABILIZATION, FOLLOW MANUFACTURER'S RECOMMENDATIONS.

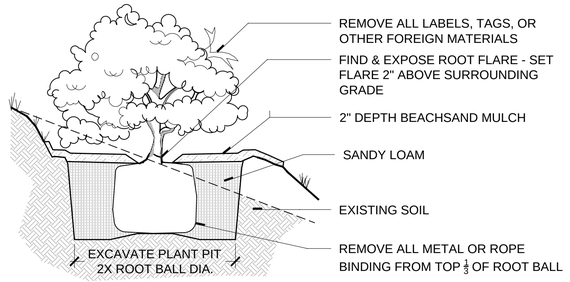
1 TREE PLANTING ON SLOPE
NTS



NOTES:

1. TREE TO BE SET PLUMB.
2. SECURE TREE AS MAY BE REQUIRED ACCORDING TO TREE SIZE, LOCATION, & WIND/WEATHER CONDITIONS.
3. IF USING ROOTBALL STABILIZATION, FOLLOW MANUFACTURER'S RECOMMENDATIONS.

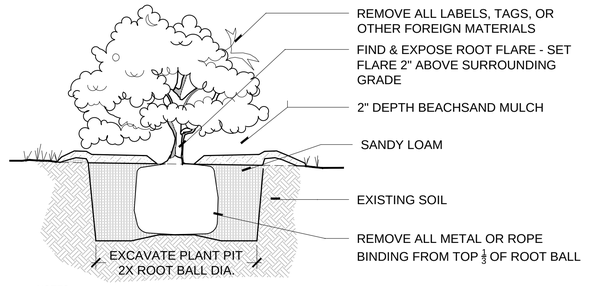
2 TREE PLANTING
NTS



NOTES:

1. SHRUB TO BE SET PLUMB.
2. SECURE SHRUB AS MAY BE REQUIRED ACCORDING TO SIZE, LOCATION, & WIND/WEATHER CONDITIONS.
3. IF USING ROOTBALL STABILIZATION, FOLLOW MANUFACTURER'S RECOMMENDATIONS.

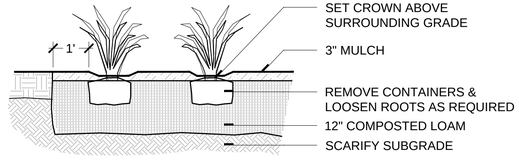
3 SHRUB PLANTING ON SLOPE
NTS



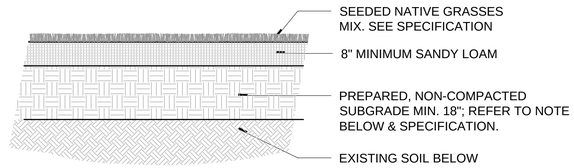
NOTES:

1. SHRUB TO BE SET PLUMB.
2. SECURE SHRUB AS MAY BE REQUIRED ACCORDING TO SIZE, LOCATION, & WIND/WEATHER CONDITIONS.
3. IF USING ROOTBALL STABILIZATION, FOLLOW MANUFACTURER'S RECOMMENDATIONS.

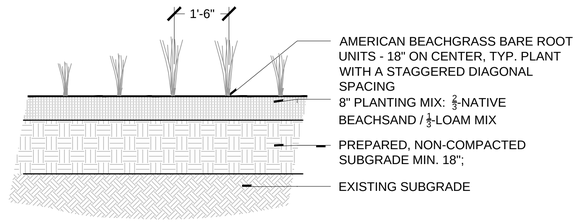
4 SHRUB PLANTING
NTS



5 PERENNIAL/GRASS PLANTING
1/2"=1'



6 SEEDED AREAS - TYPICAL SECTION
1/2"=1'



7 AMERICAN BEACHGRASS PLANTING - TYPICAL SECTION
1/2"=1'

david maynes STUDIO
26 Storer St. Kennebunk, ME. 04043 p: 207.351.6789

No.	Revisions	Date

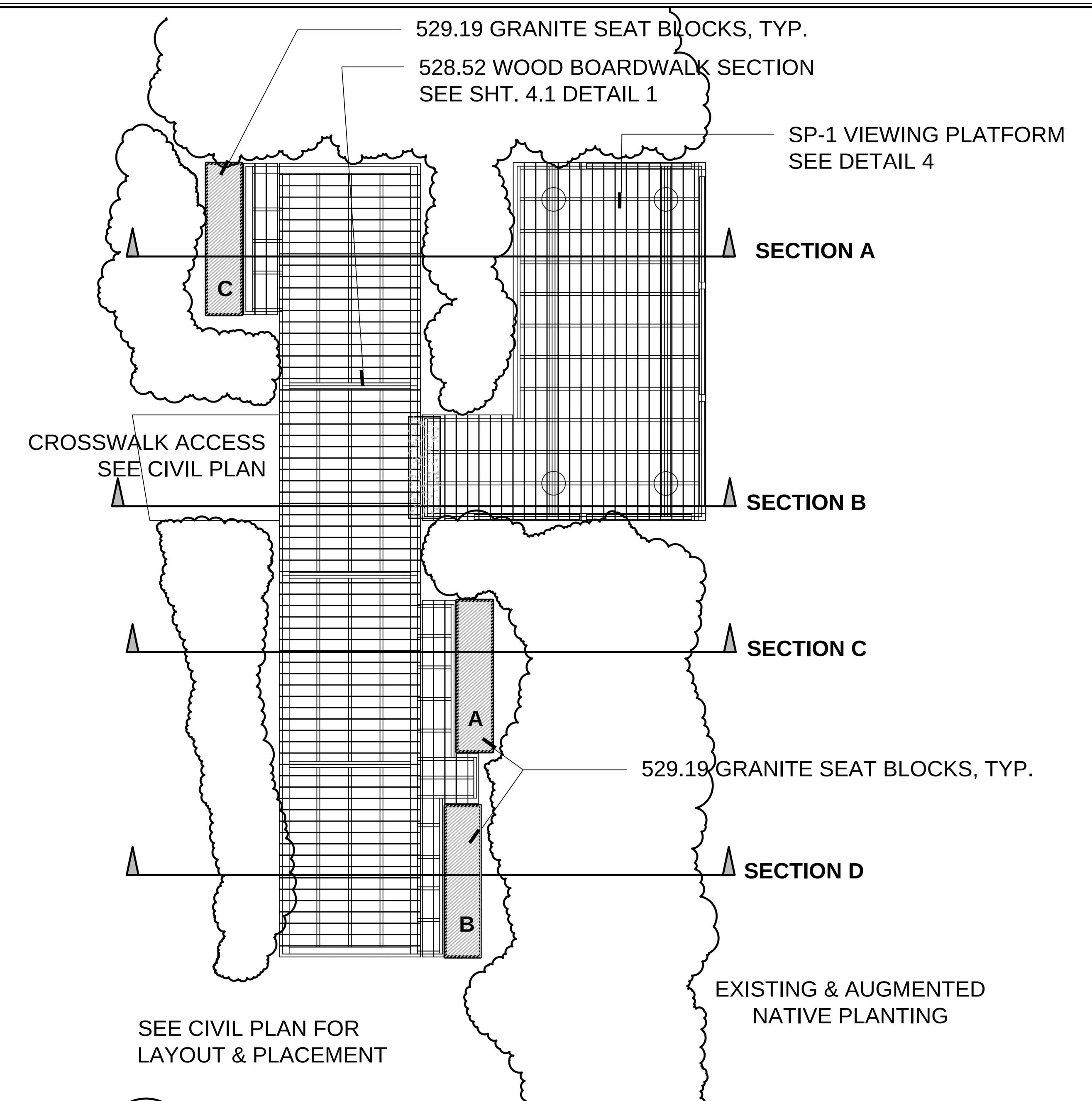
Scale:
Checked By: DM
Drawn By: DM
Design By: DM
Date: 10/09/2020
Issued For: **PSE REVIEW**

TOWN OF WELLS - HARBOR ROAD PLANTING PLAN

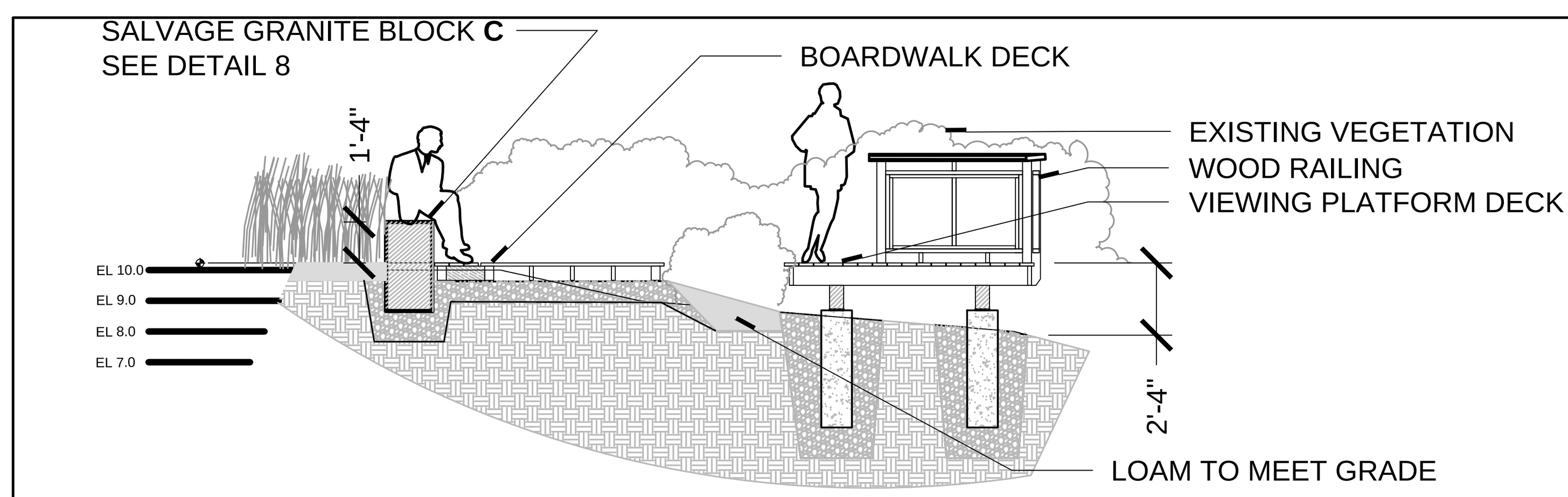
TOWN OF WELLS, ME
PLANTING DETAILS

L-3.1

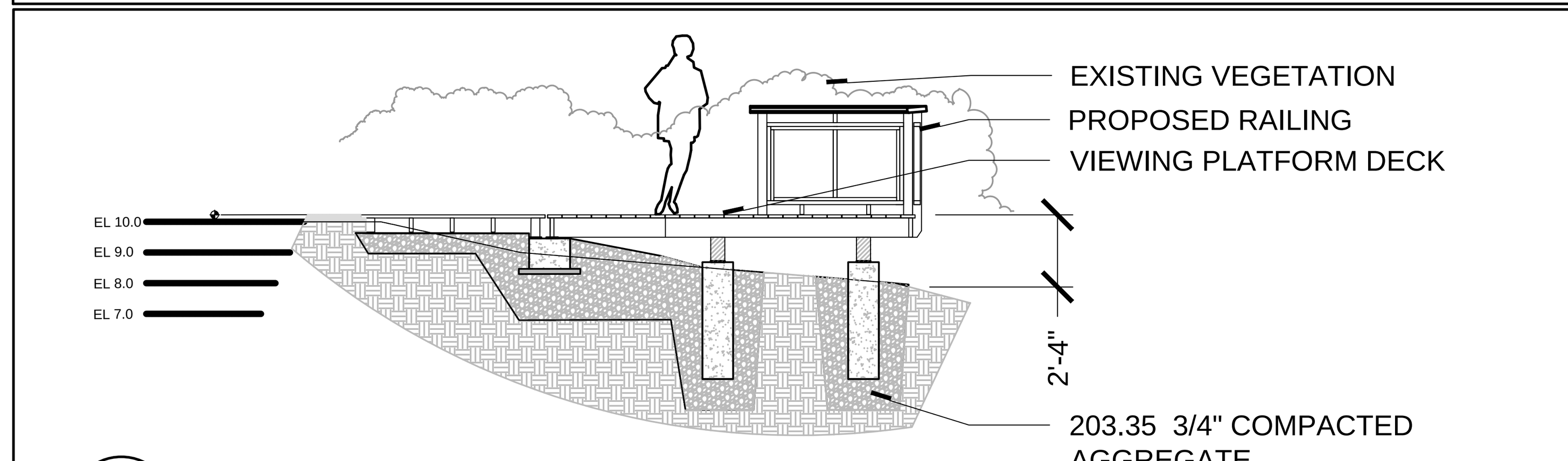
DATE: 2020-10-07



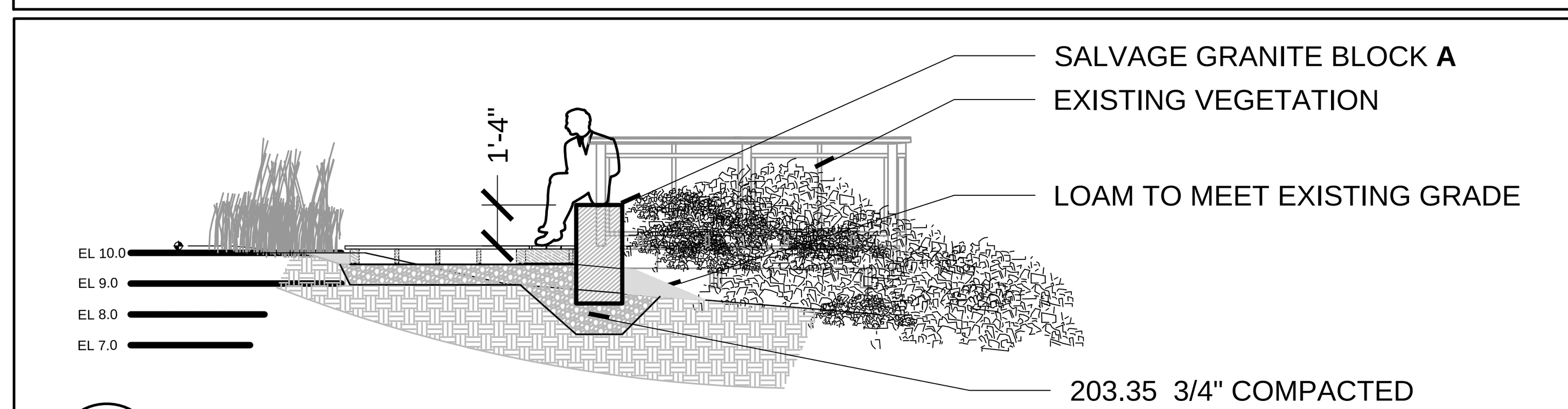
1 VIEWING PLATFORM & BOARDWALK - LAYOUT
3/16"=1'



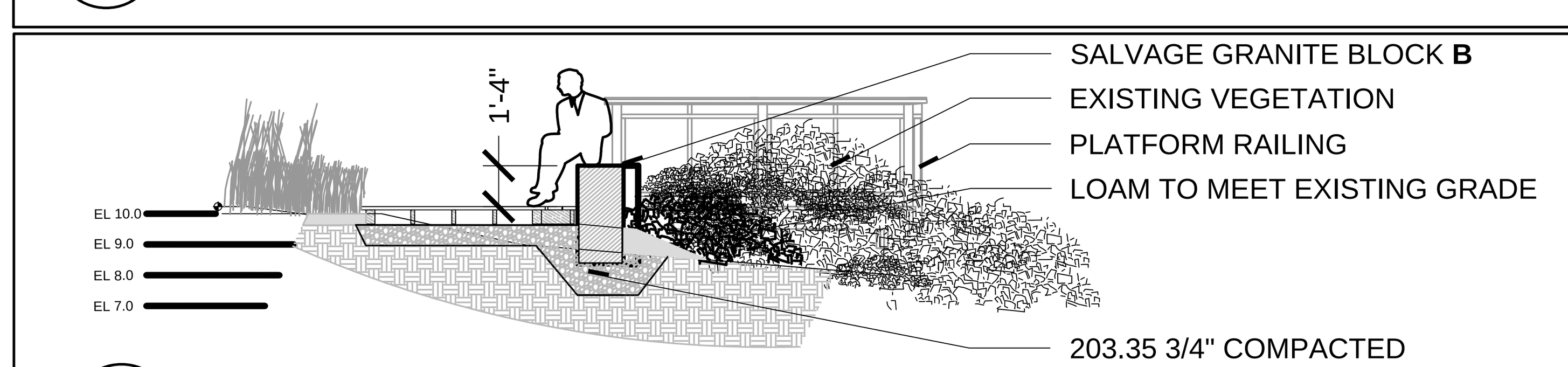
2 VIEWING PLATFORM & BOARDWALK - SECTION A
1/4"=1'



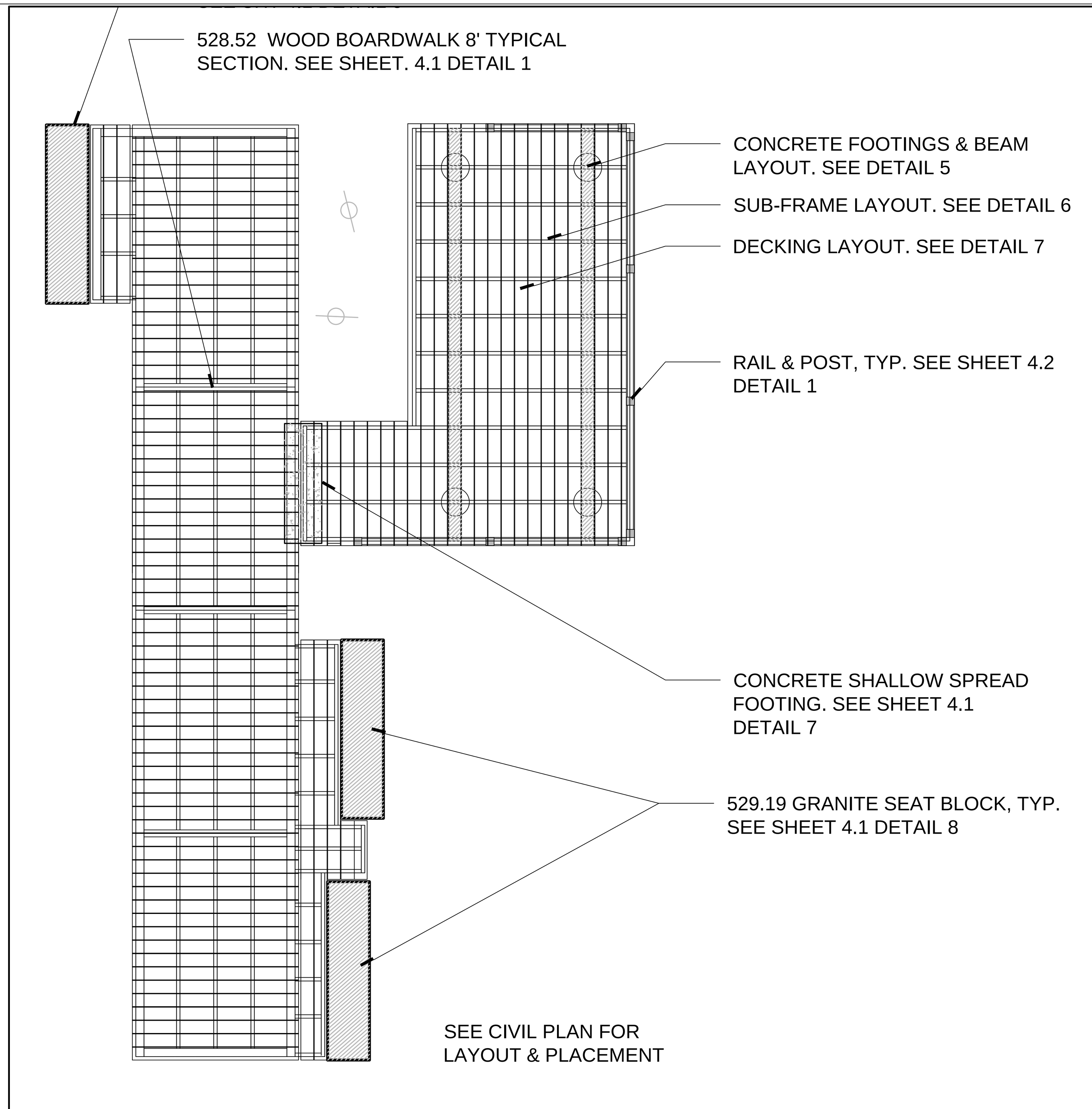
3 VIEWING PLATFORM & BOARDWALK - SECTION B
1/4"=1'



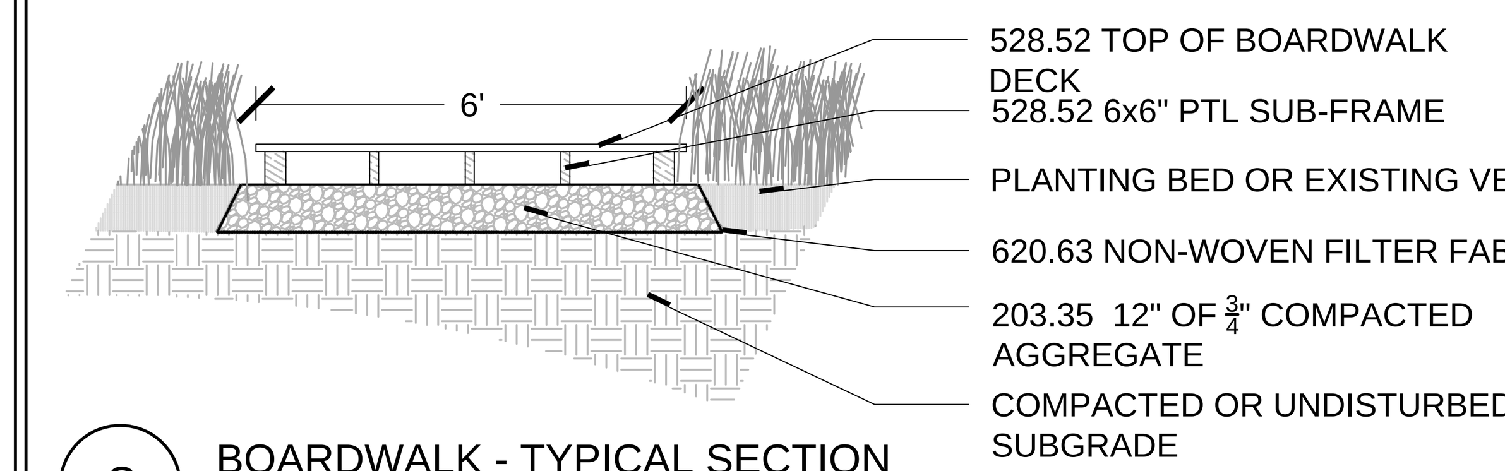
4 VIEWING PLATFORM & BOARDWALK - SECTION C
1/4"=1'



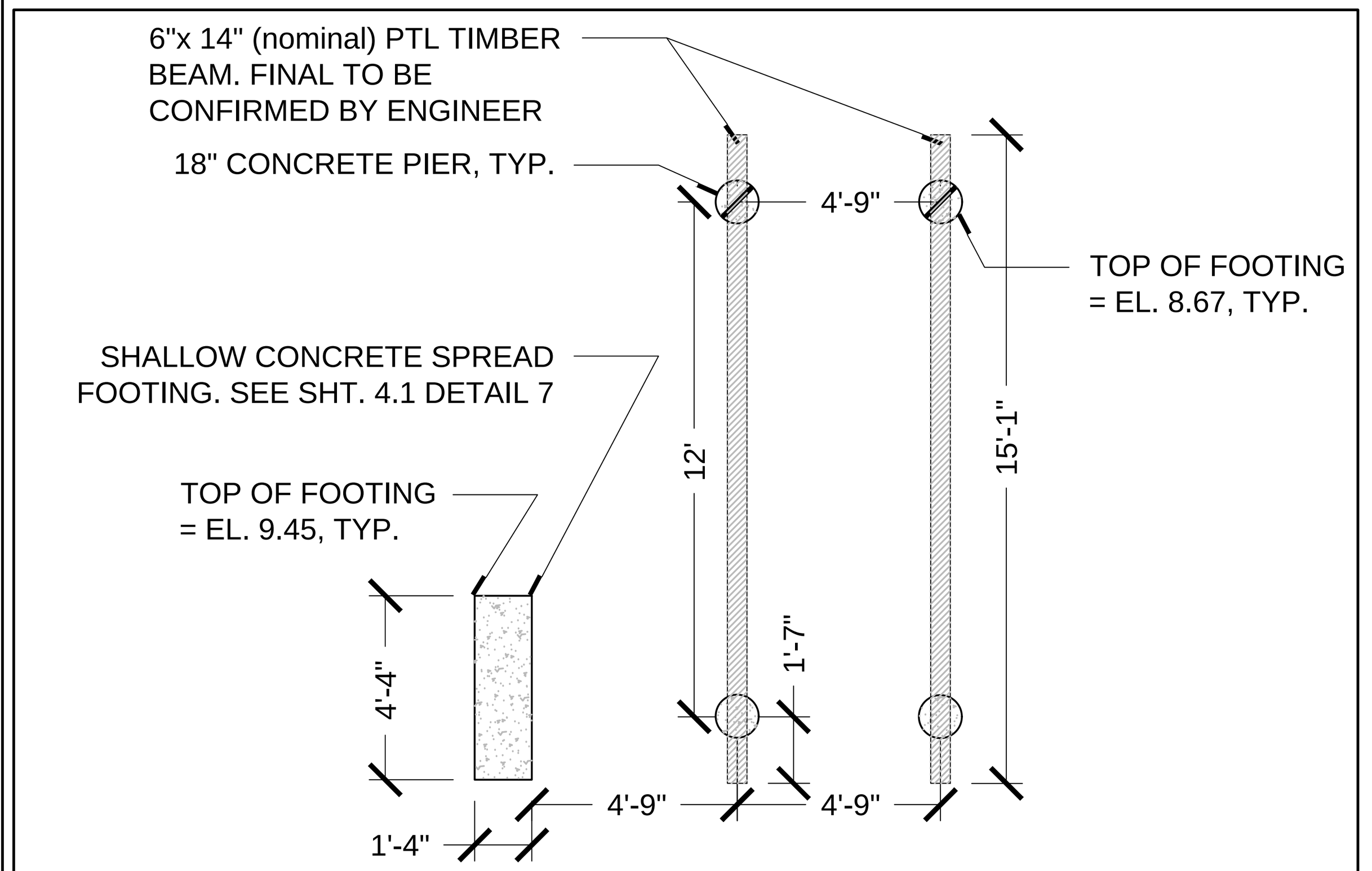
5 VIEWING PLATFORM & BOARDWALK - SECTION D
1/4"=1'



4 VIEWING PLATFORM & BOARDWALK - LAYOUT & COMPONENTS
1/4"=1'

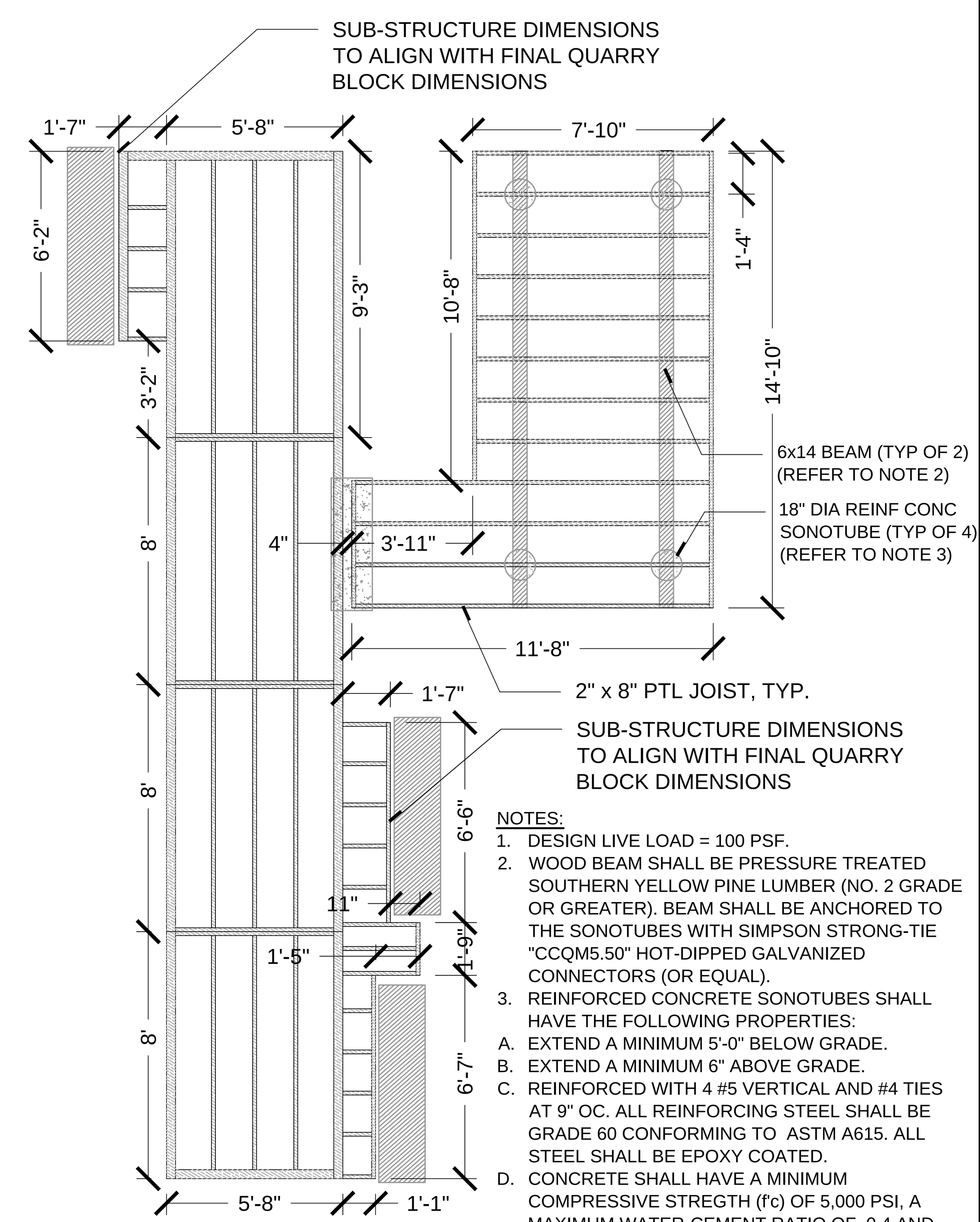


8 BOARDWALK - TYPICAL SECTION
3/8"=1'



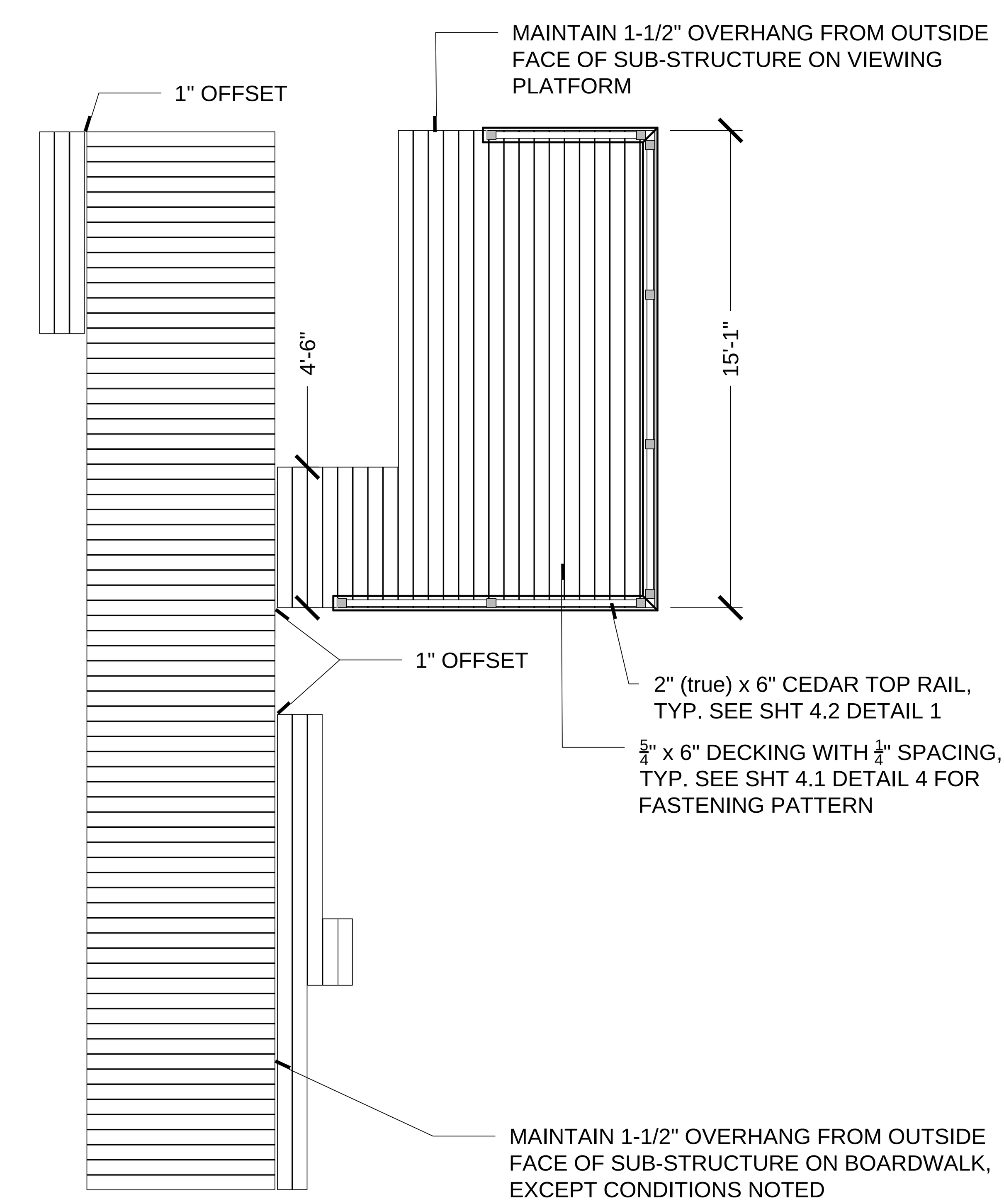
SEE CIVIL PLAN FOR OVERALL LAYOUT & PLACEMENT
FINAL ELEVATIONS TO BE CONFIRMED IN FIELD

5 VIEWING PLATFORM - CONCRETE FOOTINGS & BEAM LAYOUT
1/4"=1'



NOTES:
1. DESIGN LIVE LOAD = 100 PSF.
2. WOOD BEAM SHALL BE PRESSURE TREATED SOUTHERN YELLOW PINE LUMBER (NO. 2 GRADE OR GREATER). BEAM SHALL BE ANCHORED TO THE SONOTUBES WITH SIMPSON STRONG-TIE "CCQM5.50" HOT-DIPPED GALVANIZED CONNECTORS (OR EQUAL).
3. REINFORCED CONCRETE SONOTUBES SHALL HAVE THE FOLLOWING PROPERTIES:
A. EXTEND A MINIMUM 5'-0" BELOW GRADE.
B. EXTEND A MINIMUM 6" ABOVE GRADE.
C. REINFORCED WITH 4 #5 VERTICAL AND #4 TIES AT 9" OC. ALL REINFORCING STEEL SHALL BE GRADE 60 CONFORMING TO ASTM A615. ALL STEEL SHALL BE EPOXY COATED.
D. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STREGTH (f'c) OF 5,000 PSI, A MAXIMUM WATER-CEMENT RATIO OF 0.4 AND HAVE 6.0 +/- 1.5% ENTRAINED AIR.

6 VIEWING PLATFORM & BOARDWALK - SUBFRAME LAYOUT
1/4"=1'



7 VIEWING PLATFORM & BOARDWALK - DECKING LAYOUT
1/4"=1'

davidmaynes STUDIO
26 Storer St. Kennebunk, ME. 04043 p: 207.351.6789

Scale:	
Checked By:	DM
Drawn By:	DM
Design By:	DM
Date:	10/09/2020
Issued For:	**PSE REVIEW**

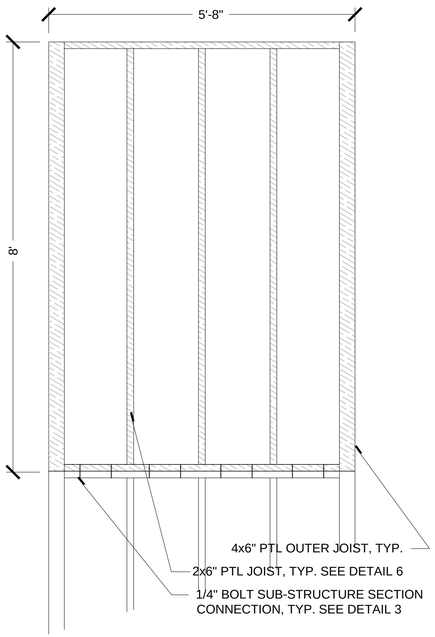
No.	Revisions	Date

TOWN OF WELLS - HARBOR ROAD PLANTING PLAN

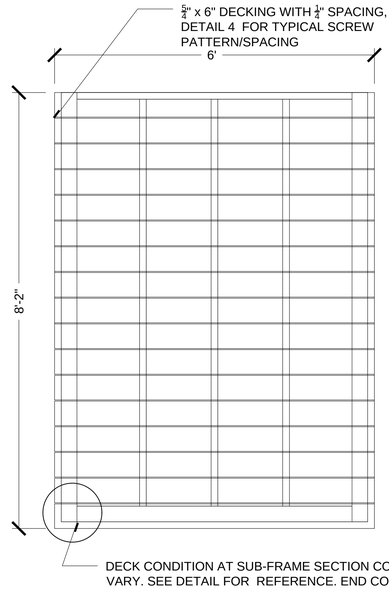
TOWN OF WELLS, ME
DETAILS

L-4.0

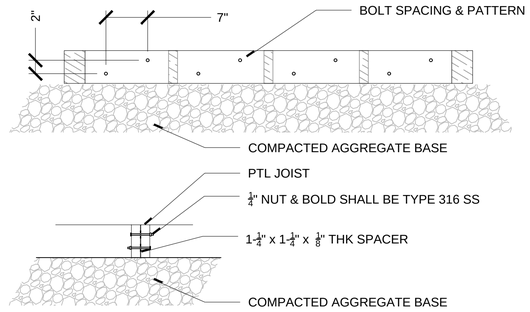
DATE: 2020-10-07



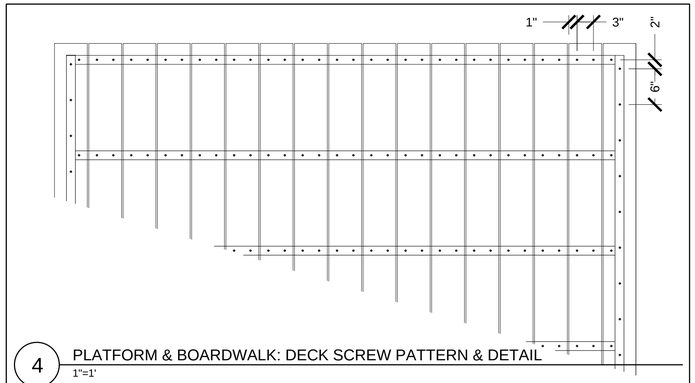
2 BOARDWALK - TYPICAL SUB-FRAME SECTION
3/8"=1'



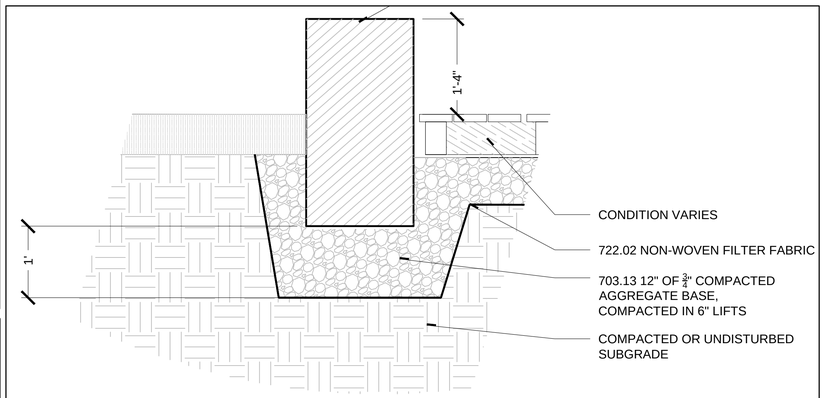
1 BOARDWALK - TYPICAL 8' SECTION: DECKING
1/4"=1'



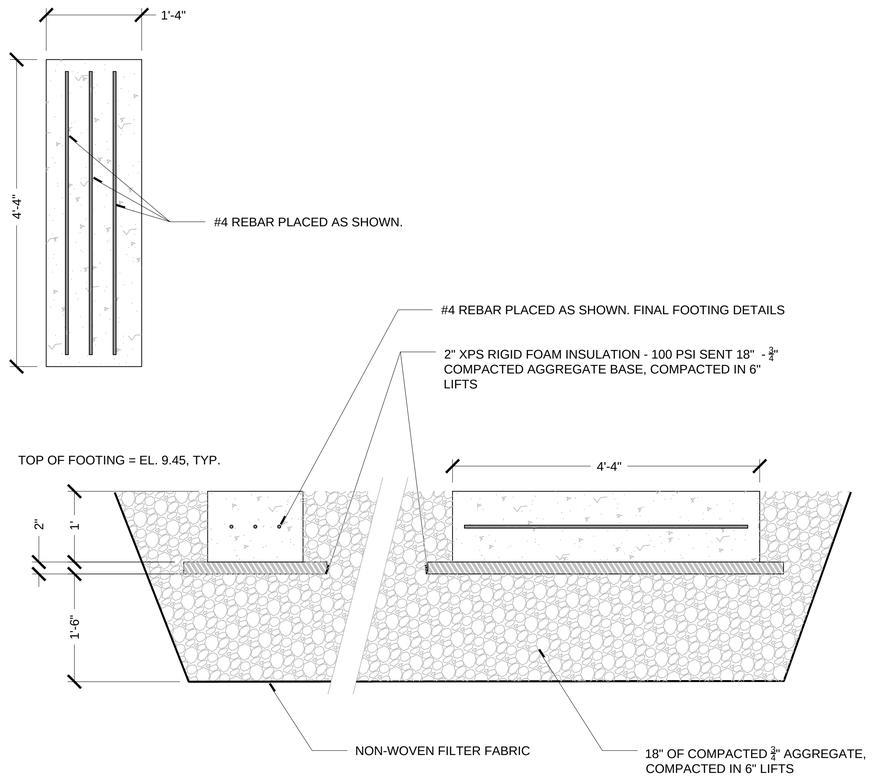
3 BOARDWALK - TYPICAL SUB-FRAME SECTION CONNECTION DETAIL
3/8"=1'



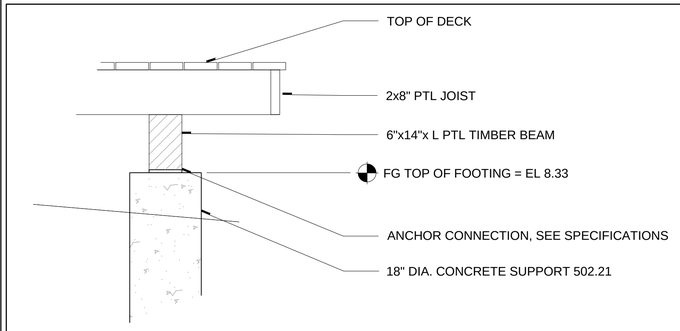
4 PLATFORM & BOARDWALK: DECK SCREW PATTERN & DETAIL
1"=1'



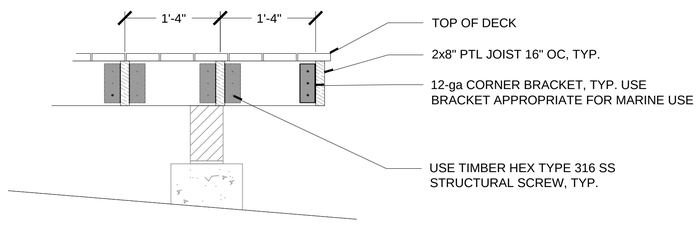
8 529.19 GRANITE SEAT BLOCK DETAIL
1"=1'



7 SHALLOW SPREAD FOOTING DETAIL
1"=1'



5 CONCRETE FOOTING & BEAM DETAIL
1"=1'



6 SUB-FRAME: JOIST CONNECTION DETAIL
1/4"=1'

davidmaynes STUDIO
26 Storer St. Kennebunk, ME. 04043 p: 207.351.6789

No.	Revisions	Date
	PSE REVIEW	10/09/2020

Issued For:
Date:
Design By: DM
Drawn By: DM
Checked By: DM
Scale:

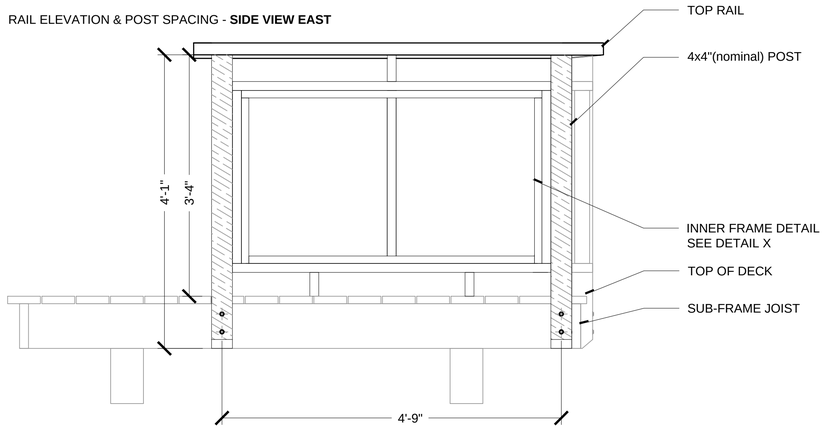
TOWN OF WELLS - HARBOR ROAD PLANTING PLAN

TOWN OF WELLS, ME
DETAILS

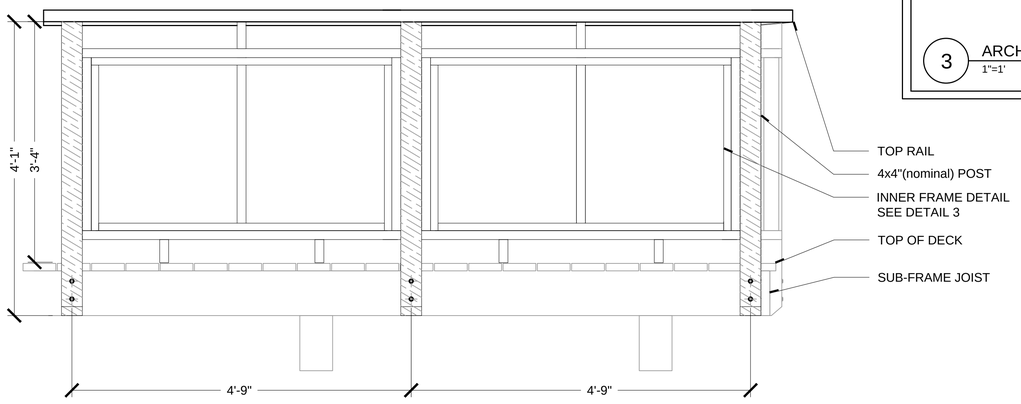
L-4.1

DATE: 2020-10-07

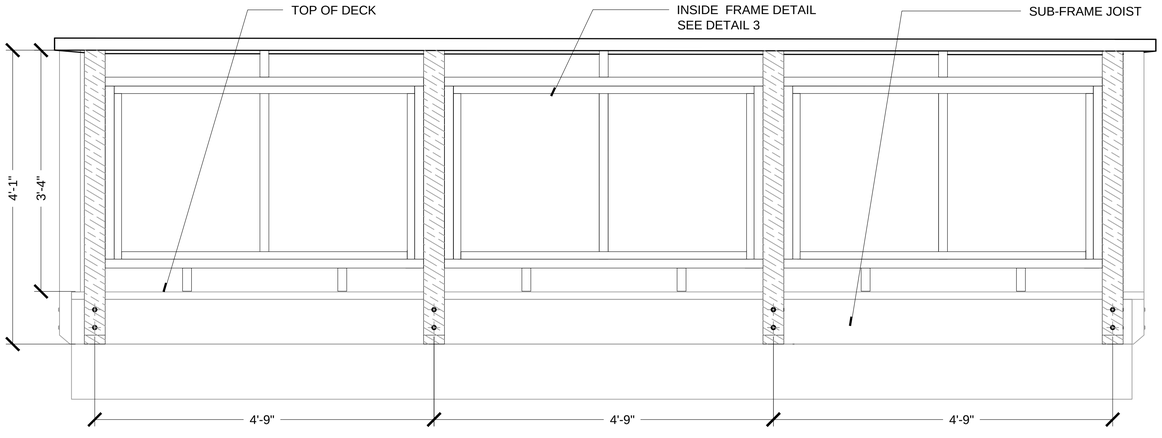
RAIL ELEVATION & POST SPACING - **SIDE VIEW EAST**



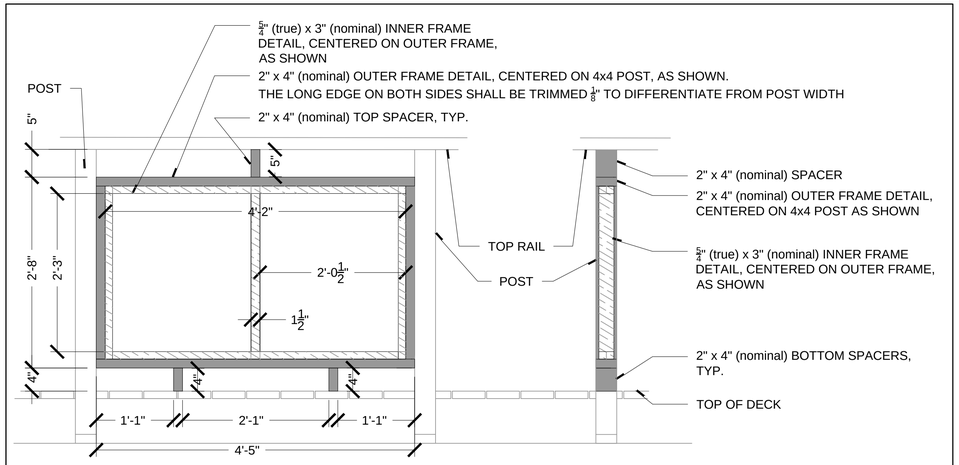
RAIL ELEVATION & POST SPACING - **SIDE VIEW WEST**



RAIL ELEVATION & POST SPACING - **FRONT VIEW**

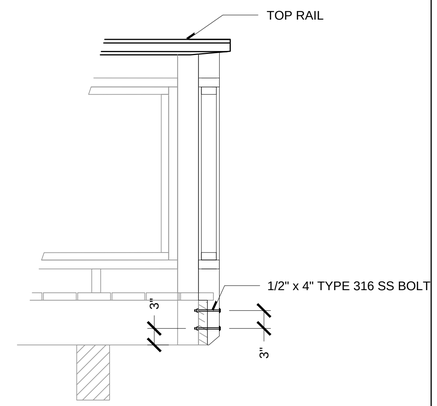


1 RAIL ELEVATION & POST SPACING
1/4"=1'



OUTER FRAME SHALL ALSO BE SECURELY BLIND FASTENED TO RAIL POSTS. CRAFTSMAN SHALL COORDINATE WITH DESIGNER ON PROPOSED ARCHITECTURAL FRAMES, AS NEEDED.

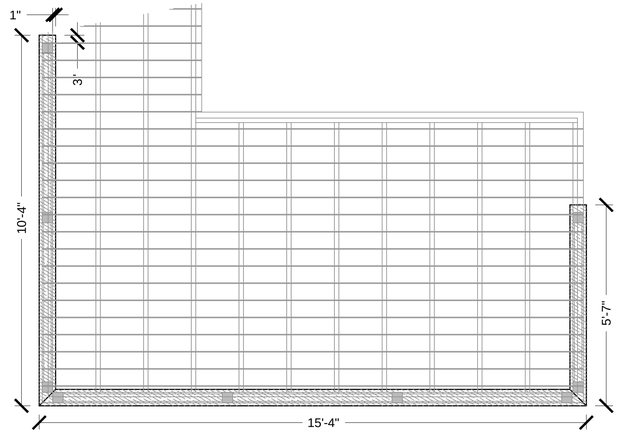
3 ARCHITECTURAL FRAME DETAIL
1"=1'



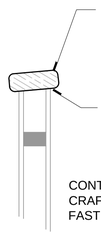
2 TYPICAL RAIL POST CONNECTION DETAIL
1"=1'

CONTRACTOR SHALL BLIND FASTEN TOP RAIL TO POSTS. CRAFTSMAN SHALL COORDINATE WITH DESIGNER AS NEEDED

CONTRACTOR SHALL USE SINGLE BOARD SPANS WHERE POSSIBLE



4 TOP RAIL - LAYOUT & DIMENSIONS
1/2"=1'



CONTRACTOR SHALL BLIND FASTEN TOP RAIL TO POSTS. CRAFTSMAN SHALL COORDINATE WITH DESIGNER ON FASTENING METHOD.

SEE RAIL LAYOUT FOR CORNER CONDITION

RAIL TERMINI SHALL EXTEND 3" BEYOND FINAL POST IN LINE

5 TOP RAIL DETAIL
1-1/2"=1'

davidmaynes STUDIO
26 Storer St. Kennebunk, ME. 04043 p: 207.351.6789

No.	Revisions	Date

Scale:
Checked By: DM
Drawn By: DM
Design By: DM
Date: 10/09/2020
Issued For: **PSE REVIEW**

TOWN OF WELLS - HARBOR ROAD PLANTING PLAN

TOWN OF WELLS, ME
DETAILS

L-4.2

DATE: 2020-10-07