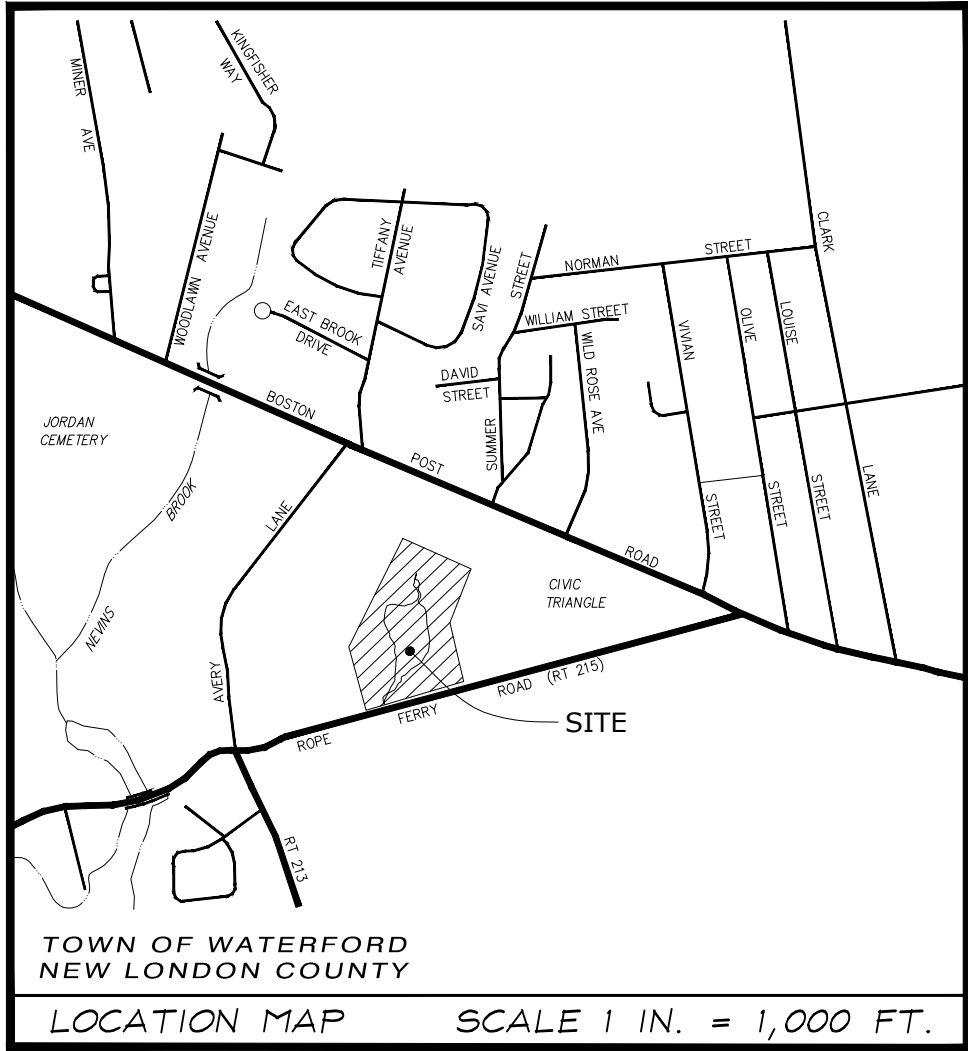




WATERFORD CIVIC TRIANGLE

UNIVERSAL ACCESS & POND IMPROVEMENTS

ISSUED FOR PERMITTING
OCTOBER 11, 2023

INLAND WETLAND PERMIT (C-22-10 - October 13, 2022) SPECIAL CONDITIONS OF APPROVAL:

1. Field location of the de-watering basin shall be reviewed by the project engineer and the contractor prior to the commencement of de-watering and constructed to accommodate the required volume and outlet controls based on the anticipated pumping rate.
2. Perimeter sediment controls are to be maintained around the 2 isolated wetland pockets at the north end of the pond and along the haul track to the sediment de-watering area.
3. Provisions for project area stabilization, sediment and stormwater run-off controls in the event of rain shall be developed and detailed in the soil and erosion control plan narrative. Off-site stormwater discharge volumes shall be maintained separate from the pond excavation and de-watering stockpiles to reduce erosion and sediment potential.
4. A qualified erosion and sediment control inspector shall be responsible for monitoring de-watering discharge and inspection of the site sedimentation controls during the excavation of the pond. Weekly monitoring reports are to be submitted to the Commission's agent for the duration of the pond restoration work. The qualifications of a third party shall be submitted to the Commission's agent for approval prior tot he initiation of construction.
5. The wetland enhancement plantings shall be supervised by a wetland scientist to verify species selection, planting locations and suitability of hydrology.
6. At all times during site construction, temporary diversion swales and temporary sediment traps shall be installed and maintained to collect and settle site construction run-off and to prevent sediment discharge from the site. Temporary division swales and sediment traps shall be inspected and maintained on a daily basis.
7. At completion of construction, areas of temporary wetland disturbance around the pond and forebay area shall be returned to grade, stabilized and seeded, and the wetland enhancement plantings and wildlife habitat structures installed per the approved plans.

PREPARED FOR:
TOWN OF WATERFORD
15 ROPE FERRY ROAD
WATERFORD, CT 06385

PREPARED BY:



Site Design / Project Lead



Civil Engineer



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Structural Engineering



Licensed Evironmental Professional



Geotechnical Engineering



Eco-Green Design Engineering LLC
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West Hartford, CT
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Email: ecogreen.eng@gmail.com

Electrical Engineer

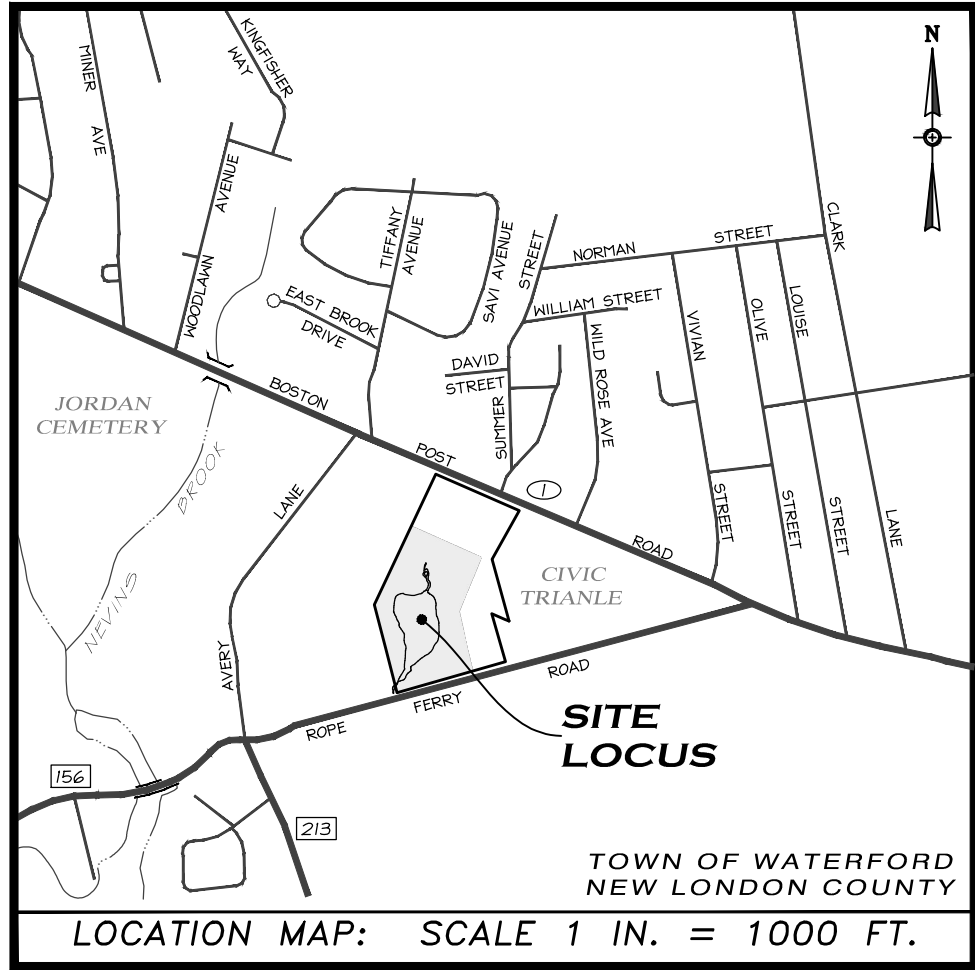


Wetland Soil Scientist



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New London, Connecticut 06320
(860) 237-4773
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E-Mail: info@stadiaeng.com

Site Survey



ABBREVIATIONS

N/F NOW OR FORMERLY
VOL VOLUME
PG PAGE
W/F WOOD FRAME
B/M BRICK & MORTAR
M/F METAL FRAME
STY STORY
FF FINISHED FLOOR
AC ACRES
SQ. FT. SQUARE FEET
LF LINEAR FEET
± MORE OR LESS
TYP TYPICAL
IP IRON PIPE
IR IRON PIN
RB REBAR
NR NOT RECOVERED
REC RECOVERED
CT CONNECTICUT
ACOE ARMY CORPS OF ENGINEERS
CMP CORRUGATED METAL PIPE
PVC POLYVINYL CHLORIDE PIPE
RCP REINFORCED CONCRETE PIPE
INV INVERT
T/F TOP OF FRAME
C/CONC CONCRETE
P/MT PAVEMENT
UTY UTILITY
WV WATER VALVE
WM WATER METER

N/F
Other Lands of
Town of Waterford
Public Safety Complex
200 BOSTON POST ROAD

SURVEY NOTES:

- THIS SURVEY HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS PREPARED AND ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.
THE SURVEY WAS PERFORMED TO THE STANDARDS OF ACCURACY FOR A HORIZONTAL CLASS A-2 EXISTING CONDITIONS SURVEY WITH A TOPOGRAPHIC INFORMATION ACCURACY OF CLASS 1-2.
THIS SURVEY WAS PREPARED TO DEPICT THE EXISTING SITE CONDITIONS OF A PORTION OF THE SUBJECT PROPERTY FOR THE DESIGN OF FUTURE SITE IMPROVEMENTS BY OTHERS
- NO BOUNDARY LINE DETERMINATION DEPICTED HEREON. PROPERTY LINES ARE FOR ORIENTATION PURPOSES ONLY.
- NORTH ORIENTATION DEPICTED HEREON IS REFERENCED TO THE 1983 NORTH AMERICAN DATUM (NAD-83) STATE PLANE COORDINATED SYSTEM BY REAL-TIME GPS OBSERVATIONS OF THE CONTROL MONUMENTATION ON 22 JULY 2021.
- THE TOPOGRAPHIC INFORMATION DEPICTED HEREON IS DERIVED FROM ACTUAL ON THE GROUND LOCATION OF THE EXISTING CONDITIONS AS OBSERVED DURING JULY AND AUGUST OF 2021. VERTICAL INFORMATION DEPICTED HEREON IS REFERENCED TO THE 1988 NORTH AMERICAN VERTICAL DATUM (NAVD-88). CGS BENCHMARKS 1133 (ELEV: 43.054 FT) AND CGS BM 3150 (ELEV: 39.58 FT) ARE THE BASE REFERENCE POINTS.
- THE LOCATION OF ANY UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. ADDITIONALLY, OTHER SUCH UNDERGROUND FEATURES MAY EXIST ON THE SITE, THE EXISTENCE OF WHICH ARE UNKNOWN TO STADIA. THE EXISTENCE, SIZE AND LOCATION OF AL SUCH UNDERGROUND FEATURES MUST BE DETERMINED AND VERIFIED IN THE FIELD BY THE APPROPRIATE AGENCY PRIOR TO ANY FUTURE CONSTRUCTION. PRIOR TO ANY EXCAVATION ON OR NEAR THIS SITE, THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 1-800-922-4455 AT LEAST 72 HOURS PRIOR TO EXCAVATION.
- THE SUBJECT PROPERTY KNOWN AS 184 BOSTON POST ROAD WAS CONVEYED TO THE TOWN OF WATERFORD THROUGH A CONVEYANCE DATED ON 01 JANUARY 1900, AND IS RECORDED IN THE TOWN OF WATERFORD LAND RECORDS.
- THE SUBJECT PROPERTY IS ENTIRELY WITHIN ZONE CT (CIVIC TRIANGLE DISTRICT) AS DESCRIBED BY THE MOST CURRENT TOWN OF WATERFORD ZONING MAP (EFFECTIVE DATE: 01 JUNE 2010).
- NO BATHYMETRY FOR PROFILING THE BOTTOM OF DUCK POND WAS LOCATED DURING THE COURSE OF SURVEY.
- INLAND WETLANDS DELINEATED ON-SITE AS PERFORMED BY RICHARD SNARSKI, R.S.S. ON 23 JULY 2021. ARMY CORPS OF ENGINEERS WETLAND FLAGS DELINEATED: JULY 2022
- TOPOGRAPHIC SURVEY FIELD LOCATION EXPANDED IN JULY & AUGUST 2022.

MAP REFERENCES:

- "DUCK POND PROJECT" SCALE: 1 INCH = 40 FEET, DATED: SEPTEMBER 1994, LAST REVISED: 14 JULY 1995, AS PREPARED BY: TOWN OF WATERFORD PUBLIC WORKS DEPARTMENT
- "PROPERTY MAP - CIVIC TRIANGLE - WATERFORD POLICE FACILITY - WATERFORD CONNECTICUT", SCALE: 1 INCH = 100 FEET, DATED: 9 JANUARY 1990, LAST REVISED: 6 AUGUST 1990, AS PREPARED BY: DECARLO & DOLL, INC. - HAMDEN & HEBRON, CONNECTICUT
- "THE TOWN OF WATERFORD - DRAINAGE EASEMENT TO BE ACQUIRED FROM DOUKAS, REGINA B." SCALE: 1 INCH = 40 FEET, DATED: AUGUST 1979, AS PREPARED BY: ANTHONY C. JANOVICZ, LAND SURVEYOR
- "MAP SHOWING PROPERTY OF WATERFORD PUBLIC LIBRARY ASSOCIATION, INC. - ROPE FERRY ROAD - RTE. 156 - WATERFORD, CONN." SCALE: 1 INCH = 40 FEET, DATED: APRIL 1964, AS PREPARED BY: HAROLD B. SMITH - QUAKER HILL, CONNECTICUT
- "CONNECTICUT STATE HIGHWAY DEPARTMENT RIGHT OF WAY MAP, TOWN OF WATERFORD - BOSTON POST ROAD, FROM WILD ROSE PLACE - EASTERLY TO WILLETTS AVE. - ROUTE U.S. 1" SCALE: 1 INCH = 40 FEET, DATED: 28 NOVEMBER 1924, LAST REVISED: 14 OCTOBER 1975, AS PREPARED BY: CONNECTICUT STATE HIGHWAY DEPARTMENT
- "CONNECTICUT STATE HIGHWAY DEPARTMENT RIGHT OF WAY MAP, TOWN OF WATERFORD - NANTIC-NEW LONDON ROAD FROM THE FOURTH DISTRICT SCHOOL - EASTERLY TO BOSTON POST ROAD ROUTE NO. 156", SCALE: 1 INCH = 40 FEET, DATED: 31 MAY 1933, AS PREPARED BY: CONNECTICUT STATE HIGHWAY DEPARTMENT

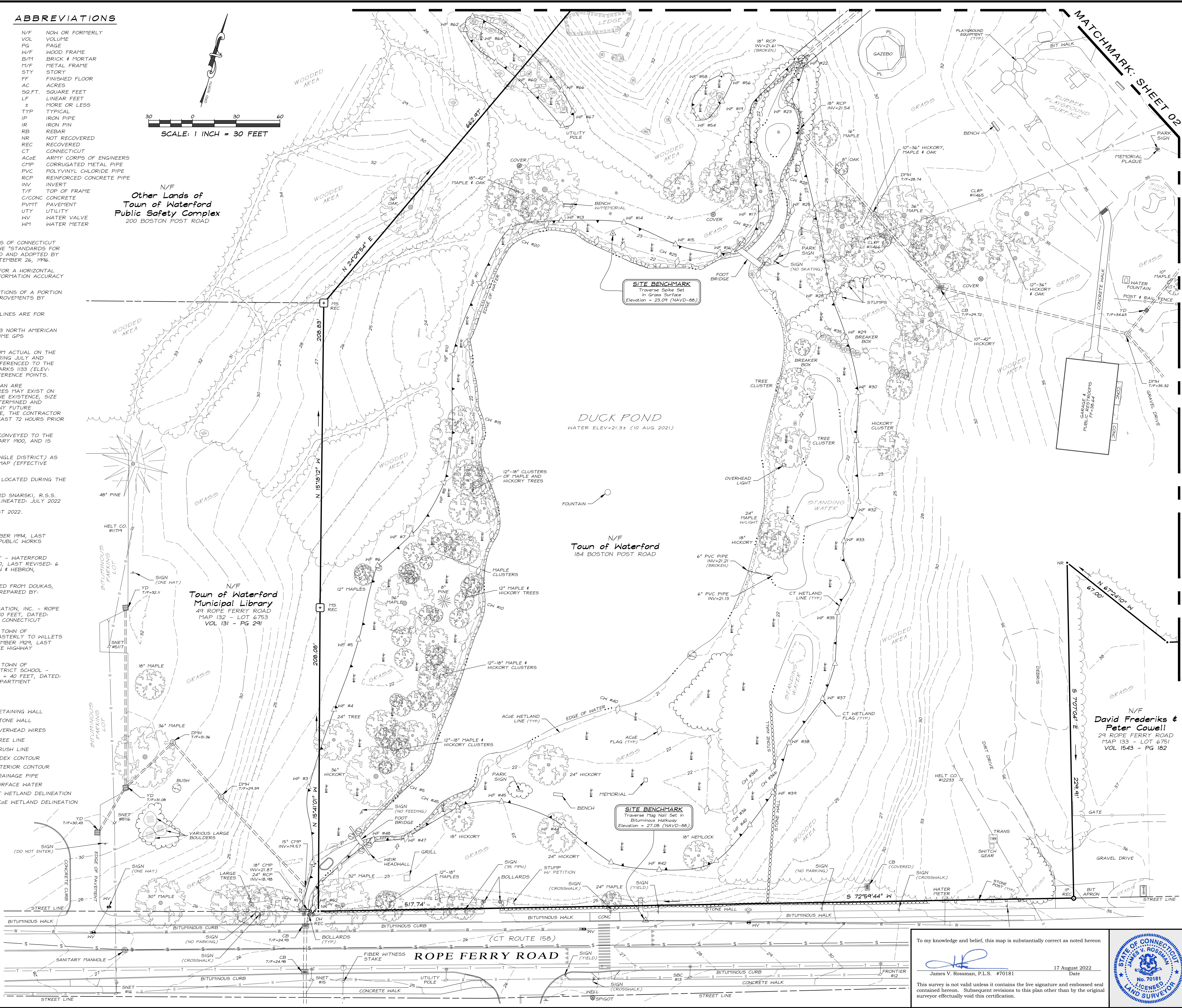
LEGEND

PROPERTY CORNER
ANGLE POINT
SPOT ELEVATION
HYDRANT
WATER VALVE
CATCHBASIN
VEGETATION
SANITARY MANHOLE
DRAINAGE MANHOLE
EXPOSED ROCK
UTILITY POLE
CT WETLAND FLAG
ACOE WETLAND FLAG

RETAINING WALL
STONE WALL
OVERHEAD WIRES
TREE LINE
BRUSH LINE
INDEX CONTOUR
INTERIOR CONTOUR
DRAINAGE PIPE
SURFACE WATER
CT WETLAND DELINEATION
ACOE WETLAND DELINEATION

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PROJECT DATA	
FIELD BOOK	BOOK NO. 47 Pg. 18, 20, 31-35, 38, 41
DWG. FILE	21-119 Worksheet - Rev 05a.dwg
LAYOUT TAB	Topographic Survey
SHEET No.	1 OF 2



To my knowledge and belief, this map is substantially correct as noted hereon.

James V. Rossman, P.L.S. #70181

17 August 2022
Date

This survey is not valid unless it contains the live signature and embossed seal contained hereon. Subsequent revisions to this plan other than by the original surveyor effectually void this certification.



1 INCH = 30 FEET

FIELD BOOK: A.R. & D.E.
DWG. BY: AUGUST 2021
FIELD DATE: AUGUST 2021
PROJECT No.: 2021-119
PRODUCT No.: **D-406A**

STADIA ENGINEERING ASSOCIATES, INC.

ENGINEERS • ENVIRONMENTAL PLANNERS • SURVEYORS

616 Vesuvial Street • Suite 103
New London 06320
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E-Mail: info@stadiaeng.com

EXISTING CONDITIONS SURVEY

DEPICTING THE EXISTING SITE CONDITIONS AND TOPOGRAPHIC FEATURES OF PROPERTY OWNED BY

TOWN OF WATERFORD

PREPARED FOR

KENT + FROST LANDSCAPE ARCHITECTS

184 BOSTON POST ROAD (A.K.A. US HWY #1) - WATERFORD, CONNECTICUT

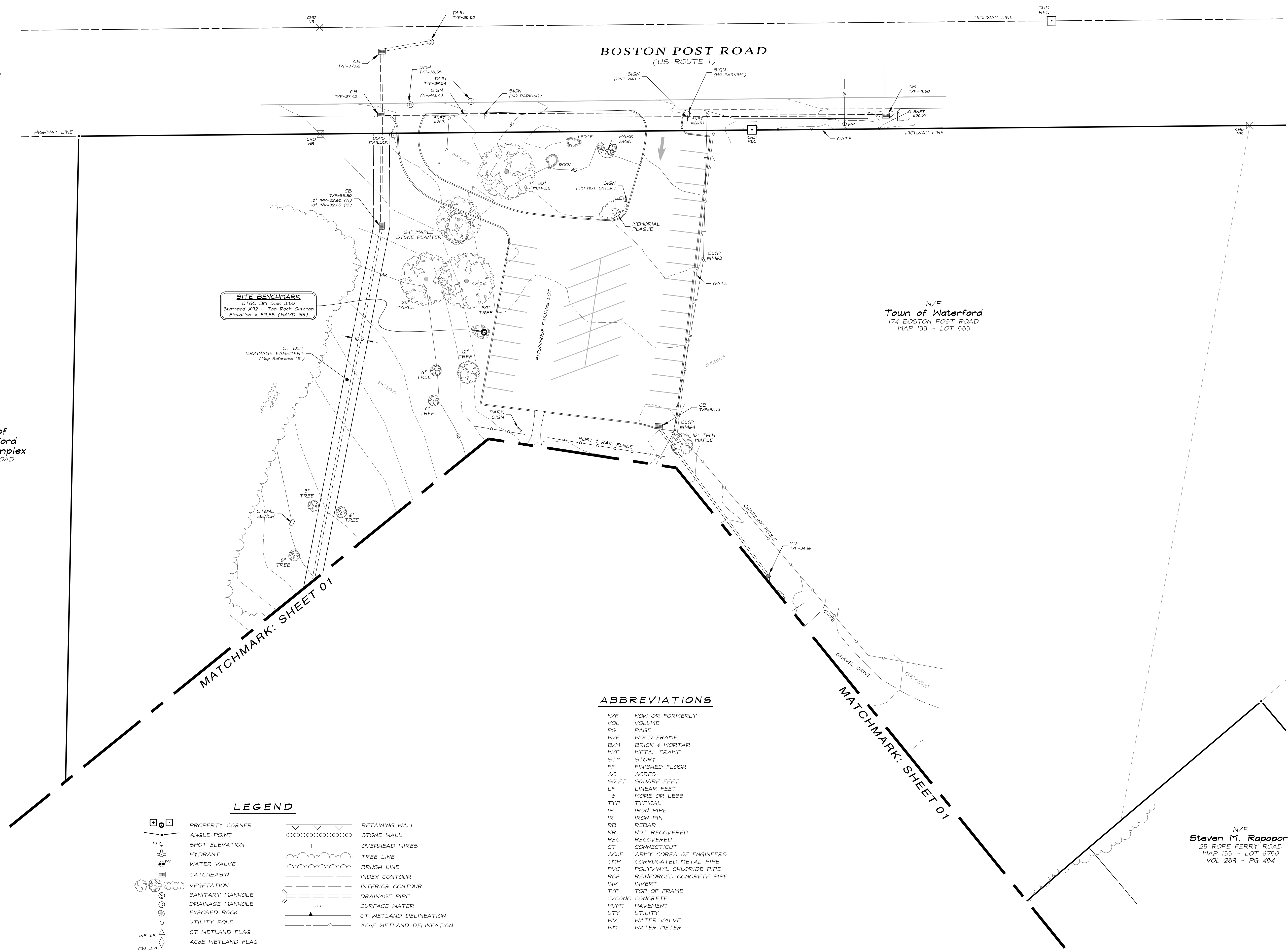
REVISIONS

DATE	INITIALS	DESCRIPTION
17 AUG 2022	JR	ACOE WETLANDS & EXPANDED TOPOGRAPHY REVISIONS TO PLAN

PROJECT No.: 2021-119

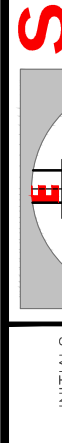
PLOT DATE: 17 AUGUST 2022

SHEET No.: **D-406A**



ABBREVIATIONS

N/V	NOW OR FORMERLY
VOL	VOLUME
PG	PAGE
N/V	NOVAD FRAME
B/M	BRICK & MORTAR
M/V	METAL FRAME
STY	STORY
FF	FINISHED FLOOR
AC	ACRES
SQ. FT.	SQUARE FEET
LF	LINEAR FEET
±	MORE OR LESS
TYP	TYPICAL
IP	IRON PIPE
IR	IRON PIN
RB	REBAR
NR	NOT RECOVERED
REC	RECOVERED
CT	CONNECTICUT
AGO	ARMY CORPS OF ENGINEERS
CM	CORRUGATED METAL PIPE
CHL	CHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE
INV	INVERT
T/F	TOP OF FRAME
C/CONC	CONCRETE
PG	PAVEMENT
UTY	UTILITY
WV	WATER VALVE
WM	WATER METER

STADIA ENGINEERING ASSOCIATES, INC.  ENGINEERS • ENVIRONMENTAL PLANNERS • SURVEYORS 616 Vasaunt Street • Suite 103 New Bedford, MA 01905 (508) 237-4773 Web: www.stadiaeng.com	1 INCH = 30 FEET	
	FIELD SHEET	DWG. BY A.R. & D.E.
	FIELD DATE AUGUST 2021	DWG. DATE AUGUST 2021
	PROJECT No.	DWG. No. 2021-119
D-406B		

APPROVALS AND REFERENCE

1. NO CONSTRUCTION ACTIVITIES SHALL TAKE PLACE UNTIL THE HEREIN EROSION AND SEDIMENT CONTROL PLAN HAS BEEN REVIEWED AND CERTIFIED BY THE TOWN OF WATERFORD OR ITS DESIGNATED AGENT.
2. ADDITIONAL STATE AND FEDERAL PERMITS MAY BE REQUIRED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL VERIFY WITH THE TOWN THAT ALL PERMITS HAVE BEEN RECEIVED.
3. THE FOLLOWING STANDARDS OF CARE ARE INCLUDED BY REFERENCE:

• INLAND WETLAND & WATERCOURSE REGULATIONS FOR THE TOWN OF WATERFORD- AS AMENDED

• 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL AND ITS' ERRATA SHEET

• 2004 CONNECTICUT STORMWATER QUALITY MANUAL

• GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER AND DEWATERING WASTEWATERS FROM A MISTURATION ACTIVITIES AS ADMINISTERED BY THE CONNECTICUT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION
9. THE MOST RECENTLY ADOPTED VERSION(S) OF THE FOLLOWING GOVERNING CODES SHALL APPLY:

• STATE OF CONNECTICUT BUILDING CODE 2022

• 2021 INTERNATIONAL BUILDING CODE

• ICC/ANSI A117.1 2017 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

• 2021 INTERNATIONAL EXISTING BUILDING CODE

• 2021 INTERNATIONAL PLUMBING CODE

• 2021 INTERNATIONAL MECHANICAL CODE

• 2021 INTERNATIONAL ENERGY CONSERVATION CODE

• 2020 NFPA 70, NATIONAL ELECTRIC CODE, OF THE NATIONAL FIRE PROTECTION ASSOCIATION, INC.

• 2021 INTERNATIONAL RESIDENTIAL CODE OF THE INTERNATIONAL CODE COUNCIL, INC.

• UNIFORM FEDERAL ACCESSIBILITY STANDARDS - AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN

GENERAL NOTES:

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION. "CALL BEFORE YOU DIG" IS TO BE NOTIFIED PRIOR TO ANY CONSTRUCTION. (800-922-4455). MARKINGS SHALL BE PROTECTED THROUGHOUT CONSTRUCTION. IF ANY MARKING IS ELIMINATED DUE TO CONSTRUCTION ACTIVITIES IT IS THE CONTRACTORS RESPONSIBILITY TO HAVE CT CALL BEFORE YOU DIG RE-ESTABLISH THE UTILITY MARKING.
2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL APPLICABLE CONSTRUCTION PERMITS, PRIOR TO CONSTRUCTION, FROM THE TOWN OF WATERFORD ALONG WITH ANY OTHER APPLICABLE AGENCIES'. ALL AGENCIES ARE TO BE NOTIFIED AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. A PRE-CONSTRUCTION MEETING IS TO BE HELD WITH THE MUNICIPAL AGENT, LANDSCAPE ARCHITECT, AND CIVIL ENGINEER PRIOR TO THE COMMENCEMENT OF ANY DISTURBANCE OR CONSTRUCTION.
3. ALL EROSION AND SEDIMENTATION CONTROL MEASURES APPLICABLE TO A GIVEN AREA OF A CONSTRUCTION SHALL BE IN PLACE AND APPROVED BY EITHER THE LANDSCAPE ARCHITECT OR CIVIL ENGINEER PRIOR TO THE COMMENCEMENT OF WORK IN THAT AREA.
4. ALL DISTURBED SOIL SHALL BE HYDRO-SEEDED.
5. ALL UPLAND AREAS OF PROPOSED FILL SHALL BE FINISH GRADED WITH 4" OF TOPSOIL AND SEEDED WITH AN APPROPRIATE SEED MIXTURE BASED ON RECOMMENDATION APPROPRIATE FOR USE AND SEASON AS DELINEATED BY THE CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENTATION CONTROL NARRATIVE.
6. NO STUMPS, VEGETATIVE MATER, CONSTRUCTION DEBRIS, OR OTHER MAN-MADE OBJECTS ARE PERMITTED TO BE BURIED ON SITE.
7. ALL FILL SHALL BE PLACED IN SIX INCH (6") LIFTS AND MECHANICALLY COMPACTED. FILL UNDER HARDSCAPE SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY ASSHTO T-180(D). QUALITY AND METHOD OF PLACEMENT SHALL CONFORM TO D.O.T. FORM 818 OR THE MOST CURRENT VERSION AS AMENDED. SPECIAL CARE SHALL BE TAKEN FOR FILL AREAS WITH LARGE ROCK. COMPACTION IN ROCK FILL SHALL MEET THE 95% MAXIMUM DENSITY AND A RECORD OF THE RESULT SUBMITTED TO THE LANDSCAPE ARCHITECT FOR APPROVAL.
8. ALL CLEARING LIMITS SHALL BE PHYSICALLY MARKED IN THE FIELD AND APPROVED BY LANDSCAPE ARCHITECT PRIOR TO ANY CLEARING OR GRUBBING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT PLANTINGS SUITABLE TO MUNICIPAL AGENT AND OR LANDSCAPE ARCHITECT FOR ANY SIGNIFICANT ENCROACHMENT BEYOND CLEARING LIMITS.
9. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DISTANCES AND LOCATIONS AND QUANTITIES AS DEPICTED ON THE APPROVED CONSTRUCTION DOCUMENTS. IF THERE ARE ANY DISCREPANCIES OR CHANGES IN FIELD CONDITIONS NOT ADDRESSED BY THESE DOCUMENTS, THE LANDSCAPE ARCHITECT AND CIVIL ENGINEER SHALL BE NOTIFIED PRIOR TO ANY CONSTRUCTION MODIFICATIONS.
10. ALL DRAINAGE CULVERTS, PROPOSED OR REPLACEMENT, SHALL BE INSTALLED IN AN APPROPRIATE MANNER WITH POSITIVE SLOPE AND COVER, WITH INLET AND OUTLET ENDS CLEAR OF DEBRIS AND FREE FLOWING AS PART OF THE REQUIRED CONSTRUCTION. SPECIFICATIONS SET FORTH BY THE CONN. DEPT. OF TRANSPORTATION STANDARDS AND SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION FORM 818 OR THE MOST CURRENT VERSION AS AMENDED, AND THE TOWN OF WATERFORD DRAINAGE STANDARDS SHALL BE APPLICABLE.

11. ALL EXCESS MATERIAL RESULTING FROM EXCAVATION AND CONSTRUCTION BECOMES PROPERTY OF THE CONTRACTOR AND SHALL BE PROPERLY DISPOSED OF OFF-SITE. NO MATERIAL SHALL BE PLACED BEYOND THE LIMITS OF CONSTRUCTION OR WITHIN WETLAND AREAS.
12. THESE GUIDELINES SHALL APPLY TO ALL WORK CONSISTING OF ALL TEMPORARY AND/OR PERMANENT MEASURES TO CONTROL WATER POLLUTION AND SOIL EROSION AS MAY BE REQUIRED DURING THE CONSTRUCTION OF THE PROJECT. IN GENERAL, ALL CONSTRUCTION ACTIVITIES SHALL PROCEED IN A WORKMANLIKE MANNER WITH THE STATED INTENTION TO MINIMIZE THE TIME TO COMPLETION AS WELL AS THE PREVENTION OF THE POLLUTION OF ANY INLAND WETLANDS, WATERCOURSES, WATER BODIES OR CONDUIT CARRYING SURFACE WATER. THE CONTRACTOR SHALL LIMIT, INSOFAR AS POSSIBLE, THE SURFACE AREA OF EARTH MATERIALS EXPOSED BY CONSTRUCTION METHODS, AND TO IMMEDIATELY PROVIDE PERMANENT AND/OR TEMPORARY POLLUTION CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT WETLANDS, WATERCOURSES OR WATER BODIES, AND TO FULLY MANAGE POSSIBLE EROSION CONDITIONS THROUGHOUT THE CONSTRUCTION LIMITS. NO CONSTRUCTION ACTIVITY SHALL COMMENCE UNTIL THE HEREIN STATED SOIL EROSION AND SEDIMENT CONTROL PLAN HAS BEEN CERTIFIED AND THOSE CONTROL MEASURES DEPICTED HEREIN HAVE BEEN FULLY INSTALLED AND ARE FUNCTIONAL.
13. CONTRACTOR IS RESPONSIBLE FOR ENGAGING THE PROPER UTILITY COMPANIES FOR RELOCATION AND/OR REMOVAL OF EQUIPMENT, NOT LIMITED TO UTILITY POLES, GUY WIRES, AND OVERHEAD WIRES.
14. NOTIFY LANDSCAPE ARCHITECT AT LEAST 48 HOURS PRIOR TO ANY ACTIVITY REQUIRING FIELD OBSERVATION
15. STOCKPILING OF BUILDING MATERIALS SHALL BE CONFINED WITHIN THE AREAS OF CONSTRUCTION DISTURBANCE. MATERIAL STOCKPILES SHALL BE MAINTAINED IN A SAFE AND WORKMANLIKE MANNER. TRASH CONTAINERS AND COLLECTION POINTS SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. ALL REFUSE IS TO BE REMOVED TO AN APPROPRIATE FACILITY.
16. VEHICULAR MOVEMENT SHALL BE LIMITED TO ESTABLISHED CONSTRUCTION ACCESS POINTS. UNNECESSARY ENCROACHMENT OF CONSTRUCTION EQUIPMENT OR OTHER VEHICLES SHALL NOT BE ALLOWED IN NON-CONSTRUCTION PORTIONS OF THE PROPERTY. VEHICULAR ACCESS TO AREAS OUTSIDE THE AREAS OF DISTURBANCE SHALL BE RESTRICTED TO THE MINIMUM NECESSARY TO PERFORM ESSENTIAL AND REQUIRED CONSTRUCTION ACTIVITIES.
17. ALL WORK ALONG STATE ROUTE 156 SHALL BE PERFORMED IN ACCORDANCE WITH THE CONNECTICUT DEPARTMENT OF TRANSPORTATION SPECIFICATION FORM 818 OR THE MOST CURRENT EDITION AND ANY SPECIAL PROVISIONS.
18. ALL MATERIALS USED ON THE PROJECT SHALL BE IN CONFORMANCE TO THE CONNECTICUT DEPARTMENT OF TRANSPORTATION SPECIFICATION FORM 818 OR THE MOST CURRENT EDITION OR AS SPECIFIED.

PEDESTRIAN CONTROL

1. TEMPORARY CONSTRUCTION FENCING SHALL BE USED TO PREVENT PEDESTRIAN ACCESS TO THE CONSTRUCTION SITE UNTIL SUBSTANTIAL COMPLETION HAS BEEN REACHED FOR THE PHASE OF THE PROJECT.
2. THE PUBLIC SIDEWALK ALONG THE PARK FRONTAGE SHALL REMAIN OPEN DURING CONSTRUCTION TO THE GREATEST EXTENT POSSIBLE UNTIL THERE IS A THREAT TO PUBLIC HEALTH, SAFETY OR WELFARE.
3. WHEN IT IS UNSAFE FOR THE PUBLIC TO USE THIS WALKWAY OR WHEN STREETSCAPE WORK IS BEING PERFORMED, TEMPORARY PEDESTRIAN DETOUR SIGNAGE AND BARRIERS SHALL BE PROVIDED BY THE CONTRACTOR. WESTBOUND PEDESTRIANS SHALL BE DIRECTED TO CROSS AT THE TOWN HALL CONTROLLED INTERSECTION, AND CONTINUE WEST ON THE SOUTH SIDE OF ROUTE 156; EASTBOUND PEDESTRIANS SHALL DIRECTED TO CROSS AT THE LIBRARY, AND CONTINUE EAST ON THE SOUTH SIDE OF ROUTE 156.

CONSTRUCTION WITHIN TREE PROTECTION AREAS:

1. TREE PROTECTION AREA: THE LAND AREA DIRECTLY UNDER THE TREE CANOPY AS MEASURED FROM THE TRUNK TO THE OUTER MOST LEAVES OF THE CANOPY OR DRIP LINE. SOIL COMPACTION AND, PHYSICAL OR CHEMICAL DAMAGE TO ROOTS WITHIN THIS AREA CAN BE DETRIMENTAL TO THE HEALTH OF THE TREE.
2. A NUMBER OF EXISTING TREES SHALL BE PRESERVED AND PROTECTED AS PART OF THIS PROJECT. MANY OF THESE TREES WILL BE IMPACTED WITH THE INSTALLATION OF NEW WALKWAYS, FOUNDATIONS AND UTILITIES. ALL CONSTRUCTION ACTIVITIES WITHIN THESE AREAS SHALL BE DONE UNDER THE DIRECT SUPERVISION OF THE LANDSCAPE ARCHITECT.
3. EXISTING ROOTS PROXIMATE TO PROPOSED AND EXISTING PAVING SHALL BE EXPOSED USING AN AIRSPADE OR BY HAND. IN AREAS WHERE ROOTS MUST BE REMOVED FOR CONSTRUCTION OF WALKS, FOUNDATIONS, WALLS, ETC. ROOTS SHALL BE SEVERED PRIOR TO EXCAVATION TO ELIMINATE UNNECESSARY TEARING OF ROOTS BY HEAVY EQUIPMENT.
4. TREE ROOTS SHALL NOT BE PRUNED OR CUT UNLESS THEIR REMOVAL IS UNAVOIDABLE OR ABSOLUTELY NECESSARY. THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED PRIOR TO ANY OPERATION KNOWN OR SUSPECTED TO INVOLVE CUTTING OF MORE THAN:

a. TWO ROOTS, THREE (3) INCHES OR MORE IN DIAMETER; AND/OR

b. FOUR ROOTS BETWEEN TWO (2) AND THREE (3) INCHES IN DIAMETER. THE ARBORIST SHALL BE NOTIFIED IMMEDIATELY IN THE EVENT THAT ROOTS IN EXCESS OF

- THAT DESCRIBED ABOVE ARE CUT, TORN, RIPPED, OR OTHERWISE INJURED.
4. WHEN EXCAVATING FOR CONSTRUCTION OF INLETS, WALLS, FOUNDATIONS,ETC. EXCAVATED SOIL SHALL BE DEPOSITED IN TRUCKS AND HAULED OFF OR DEPOSITED TEMPORARILY ON 3/4-INCH THICK PLYWOOD. EXCAVATED AND FILL SOIL SHALL NOT BE DEPOSITED, EVEN TEMPORARILY, ON UNPROTECTED NATURAL GRADE. EXCAVATED FILL SOIL SHALL BE RETURNED AS BACKFILL WHERE POSSIBLE.
5. ALL TRENCHING OR OTHER WORK UNDER THE DRIPLINE OF ANY TREE SHALL BE DONE BY HAND OR BY OTHER METHODS, WHICH WILL PREVENT BREAKAGE OR OTHER INJURY TO BRANCHES AND ROOTS.
6. LIMIT GRADING TO A MAXIMUM OF TWO (2) INCHES OF FILL OVER NATURAL GRADE WITHIN CRITICAL ROOT ZONES. FILL SHOULD CONSIST OF SANDY LOAM TOPSOIL. CLAY SOILS SHALL NOT BE USED AS FILL. WHEN USING FILL SOIL, THE EXISTING SURFACE TO RECEIVE FILL SHOULD BE SCARIFIED PRIOR TO FILLING. ANY FILLING OPERATION SHOULD NOT OCCUR DURING WATER SATURATED SOIL CONDITIONS.

WATERCOURSE AND WETLAND IMPACT AVOIDANCE AND MINIMIZATION MEASURES:

1. THE FOLLOWING MEASURES WILL BE TAKEN TO AVOID OR MINIMIZE IMPACTS TO WATERCOURSES AND WATERBODIES DURING PROJECT ACTIVITIES. ALL WORK IN OR NEAR WATERCOURSES AND WATERBODIES WILL BE IN ACCORDANCE WITH PROJECT MAPPING AND THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
2. INSTALL AND MAINTAIN TEMPORARY EROSION AND SEDIMENTATION CONTROLS ALONG THE ROW WHERE CONSTRUCTION ACTIVITIES DISTURB SOILS NEAR WATERCOURSES. THESE CONTROLS WILL BE INSTALLED AND MAINTAINED TO MINIMIZE THE POTENTIAL FOR SEDIMENTATION INTO WATER RESOURCES. SEDIMENT THAT ACCUMULATES BEHIND THESE CONTROLS WILL PERIODICALLY BE REMOVED AND PLACED IN UPLAND AREAS, IN A MANNER THAT WILL PRECLUDE THE POTENTIAL FOR SUBSEQUENT DEPOSITION INTO WATERCOURSES, INLAND WETLAND AREAS, OR WILL OTHERWISE BE DISPOSED OF OFF-SITE.
3. CONSTRUCTION EQUIPMENT SHALL BE PROHIBITED FROM FORDING STREAMS.
4. EXCEPT FOR EQUIPMENT THAT IS NOT READILY MOBILE OR MUST REMAIN ON-SITE FOR PROLONGED PERIODS TO SAFELY COMPLETE A CONSTRUCTION TASK, CONSTRUCTION VEHICLES AND EQUIPMENT WILL NOT BE REFUELED WITHIN 100 FEET OF A WATERCOURSE OR OPEN WATERS. FOR REFUELING THAT MUST BE PERFORMED LESS THAN 25 FEET FROM A WATERCOURSE, APPROPRIATE SPILL PREVENTION MEASURES AS DETAILED IN THE CONTRACTOR'S SPILL PREVENTION AND CONTROL PLAN WILL BE APPLIED.

WETLAND RESTORATION PLAN:

1. AS NECESSARY, WETLAND AREAS AFFECTED BY CONSTRUCTION MAY BE STABILIZED TEMPORARILY WITH ANNUAL RYEGRASS, OR AS DIRECTED BY THE LANDSCAPE ARCHITECT. FOR LONG-TERM STABILIZATION IN AREAS WHERE THE TOPSOIL LAYER (CONTAINING WETLAND SEEDS) WAS DISTURBED BY CONSTRUCTION, ANNUAL RYE GRASS, A WETLAND SEED MIX, OR AN EQUIVALENT MIX WILL BE APPLIED AT THE LABEL-RECOMMENDED SEEDING RATE. IF FINE GRADING IS NECESSARY, IT SHOULD BE PERFORMED DURING THE GROWING SEASON AND IN A MANNER THAT RETAINS THE EXISTING WETLAND TOPSOIL AND ROOT MASS TO THE EXTENT PRACTICABLE. ONCE COMPLETE, DISTURBED AREAS AFFECTED BY GRADING SHALL BE SEEDED IMMEDIATELY.
2. TEMPORARY EROSION AND SEDIMENT CONTROLS WILL BE LEFT IN PLACE AND MAINTAINED UNTIL FINAL STABILIZATION IS ACHIEVED. RESTORATION TYPICALLY WILL BE DEEMED SUCCESSFUL BASED ON THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER. BASED ON THE RESULTS OF POST-CONSTRUCTION INSPECTIONS OF AREAS OF STABILIZATION, THE LANDSCAPE ARCHITECT WILL DETERMINE THE APPROPRIATE TIMEFRAME FOR THE REMOVAL OF ALL TEMPORARY EROSION CONTROLS.

ENVIRONMENTAL BMP & PROTECTION:

1. NO CONSTRUCTION SHALL PROCEED UNTIL PROPER SEDIMENTATION AND EROSION CONTROL METHODS HAVE BEEN INSTALLED AS THE SEQUENCE OF CONSTRUCTION NECESSITATES.
2. NO EQUIPMENT, MATERIALS OR MACHINERY SHALL BE STORED, CLEANED OR REPAIRED WITHIN SEVENTY-FIVE (75) FEET OF ANY WETLAND OR WATERCOURSE.
3. NO OBJECTIONABLE MATERIALS RESULTING FROM ANY CLEARING ACTIVITY SHALL BE DISPOSED OF IN ANY WETLAND OR WATERCOURSE. THIS INCLUDES, BUT IS NOT LIMITED TO, STUMPS, TREE ROOTS, MATTED ROOTS, WOOD CHIPS AND OTHER DEBRIS.
4. FORDING STREAMS WITH EQUIPMENT SHALL BE PROHIBITED UNLESS SPECIFIED ELSEWHERE. APPROVAL FROM THE TOWN OF WATERFORD CONSERVATION COMMISSION WILL BE REQUIRED FOR ANY HAUL ROAD OR TEMPORARY STRUCTURE PLACED IN WETLANDS OR WATERCOURSES.
5. NO SOIL FILL OR OTHER MATERIALS SHALL BE DEPOSITED IN SURROUNDING WETLANDS OR WATERCOURSES EXCEPT AS OTHERWISE APPROVED BY THE TOWN OF WATERFORD CONSERVATION COMMISSION AND DEPICTED HEREON.
6. WHERE DEWATERING IS NECESSARY, THE PUMP SHALL NOT DISCHARGE DIRECTLY INTO ANY WETLAND OR WATERCOURSE.

- PROPER METHODS AND DEVICES SHALL BE UTILIZED, SUCH AS PUMPING THE WATER INTO A TEMPORARY SEDIMENTATION POOL, PROVIDING SURGE PROTECTION AT THE INLET AND THE OUTLET OF PUMPS, FLOATING THE INTAKE OF THE PUMP, OR OTHER METHODS TO MINIMIZE AND RETAIN THE SUSPENDED SOLIDS. IF THE PUMPING OPERATION IS CAUSING TURBIDITY PROBLEMS, SAID OPERATION SHALL CEASE UNTIL FEASIBLE MEANS OF CONTROLLING TURBIDITY ARE DETERMINED AND IMPLEMENTED.
7. ALL TEMPORARY FILL, STORAGE OR STOCKPILE AREAS SHALL BE PROPERLY STABILIZED TO PREVENT EROSION AND SUITABLY CONTAINED TO PREVENT TURBID RUNOFF FROM REENTERING A WETLAND OR WATERCOURSE. ALL AREAS AFFECTED BY TEMPORARY FILLS MUST BE RESTORED TO THEIR ORIGINAL CONTOURS, AND RE- VEGETATED WITH SUITABLE VEGETATION. THE USE OF TEMPORARY FILL AND/OR EXCAVATION SHALL BE MINIMIZED TO ONLY THAT AREA REQUIRED TO PERFORM THE WORK.
8. DUMPING OF OIL OR OTHER DELETERIOUS MATERIALS ON THE GROUND IS FORBIDDEN. THE CONTRACTOR SHALL PROVIDE A MEANS OF CATCHING, RETAINING AND PROPERLY DISPOSING OF DRAINED OIL. REMOVED OIL FILTERS, OR OTHER DELETERIOUS MATERIAL FROM EQUIPMENT USED ON SITE. VEHICLE MAINTENANCE EXCEPT DAILY AND PERIODIC PROCEDURES SHALL BE COMPLETED OFF SITE. ALL OIL SPILLS SHALL BE IMMEDIATELY REPORTED TO THE DEPARTMENT OF ENVIRONMENTAL PROTECTION/HAZARDOUS MATERIALS OFFICE. FAILURE TO DO SO MAY RESULT IN THE IMPOSITION OF FINES UNDER THE APPLICABLE CONNECTICUT GENERAL STATUTES.
9. EVERY PRECAUTION SHALL BE USED WHILE WORKING NEAR A WATERWAY TO PREVENT AND MINIMIZE THE DEGRADATION OF THE EXISTING WATER QUALITY. ALL ACTIVITIES SHALL BE IN CONFORMANCE TO AND CONSISTENT WITH ALL APPLICABLE WATER QUALITY STANDARDS AND MANAGEMENT PRACTICES AS SET FORTH BY LOCAL, STATE AND FEDERAL AGENCIES.
10. DURING THE PERIOD OF CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR ALL EROSION AND SEDIMENT CONTROL MEASURES. SAID MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINSTORM AND DURING A MAJOR STORM EVENT. ACCUMULATED DEPOSITS OF SEDIMENT AND SILT SHALL BE PERIODICALLY REMOVED FROM THE UPSTREAM SIDE OF THE EROSION AND SEDIMENT CONTROL BARRIERS, AND UPON ESTABLISHMENT OF PERMANENT SEEDING AND MULCHING. SUCH MATERIALS REMOVED SHALL BE SPREAD AND STABILIZED IN NON-WETLAND AREAS WHICH ARE NOT SUBJECT TO EROSION, OR WHICH ARE NOT TO BE PAVED OR BUILT UPON.
11. HAY BALES, SILT FENCING AND OTHER EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REPAIRED, CLEANED AND/OR REPLACED AS NECESSARY THROUGHOUT THE CONSTRUCTION PERIOD IN ORDER TO MAINTAIN COMPLETE AND INTEGRAL EROSION AND SEDIMENT CONTROL PROTECTION. ONCE IN PLACE ALL EROSION AND SEDIMENT CONTROL FACILITIES AND MEASURES ARE TO REMAIN IN PLACE AND IN PROPER CONDITION AND BE CONTINUOUSLY MAINTAINED UNTIL FINAL GRADING HAS BEEN COMPLETED, ALL DISTURBED AREAS UPGRADIENT OF SAID FACILITIES HAVE BEEN PERMANENTLY STABILIZED AND ALL NEWLY GRASSED AREAS HAVE HAD AT LEAST TWO MOWINGS. FOLLOWING SUCH PERMANENT STABILIZATION, THE FACILITIES SHALL BE DISMANTLED, REMOVED, AND DISPOSED OF IN AN APPROVED MANNER. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES BEYOND THOSE SHOWN ON THE PLANS OR PRESCRIBED HEREIN SHALL BE PUT IN PLACE, WHENEVER NECESSARY, TO ADDRESS FIELD CONDITIONS AND/OR AS ORDERED BY THE TOWN.
12. DISTURBANCE OF THE LAND SHALL BE LIMITED TO THE MINIMUM EXTENT NECESSARY TO COMPLETE THE PROPOSED DEVELOPMENT. ALL EXISTING TREES AND SHRUBS SHALL BE CONSERVED WHERE POSSIBLE, EXCEPT THOSE WHOSE REMOVAL IS REQUIRED TO PERFORM THE PROPOSED WORK. THE LIMITS OF DISTURBANCE SHALL BE ESTABLISHED IN THE FIELD PRIOR TO STARTING ANY ACTUAL CONSTRUCTION ACTIVITIES AND SHALL BE GENERALLY AS DEPICTED BY THE GRADING/SITE DEVELOPMENT DRAWINGS.

EROSION AND SEDIMENT CONTROL

1. A QUALIFIED THIRD PARTY EROSION AND SEDIMENT CONTROL INSPECTOR SHALL BE RESPONSIBLE FOR MONITORING DE-WATERING DISCHARGE AND INSPECTION OF THE SITE SEDIMENTATION CONTROLS DURING THE EXCAVATION OF THE POND. WEEKLY MONITORING REPORTS ARE TO BE SUBMITTED TO THE COMMISSION'S AGENT FOR THE DURATION OF THE POND RESTORATION WORK. THE QUALIFICATIONS OF A THIRD PARTY SHALL BE SUBMITTED TO THE COMMISSION'S AGENT FOR APPROVAL PRIOR TOT HE INITIATION OF CONSTRUCTION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE TO INSPECT THE SITE IN ACCORDANCE WITH THE PROCEDURES AS OUTLINED IN THE "GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER AND DEWATERING WASTE WATERS FROM CONSTRUCTION ACTIVITIES" AS ADOPTED BY THE DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION EFFECTIVE ON OCTOBER 1, 2013.
3. THE CONTRACTOR SHALL INSPECT ALL DISTURBED AREAS OF CONSTRUCTION ACTIVITY THAT HAVE NOT BEEN FINALLY STABILIZED, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER. WHERE SITES HAVE BEEN TEMPORARILY OR FINALLY STABILIZED, SUCH INSPECTION SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH FOR THREE CONSECUTIVE MONTHS.
4. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE INSPECTED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ASSESSABLE, THEY SHALL BE INSPECTED TO ASCERTAIN

- WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.
5. A REPORT SHALL BE MADE SUMMARIZING THE SCOPE OF THE INSPECTION INCLUDING THE FOLLOWING: NAME AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE STORMWATER CONTROL PLAN, AND ACTIONS TAKEN. THE REPORT SHALL BE RETAINED AS PART OF THE STORMWATER CONTROL PLAN FOR AT LEAST THREE YEARS AFTER THE DATE OF INSPECTION AND SHALL BE SUBMITTED TO THE TOWN.
6. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES BEYOND THOSE DEPICTED HEREIN SHALL BE PUT IN PLACE WHENEVER NECESSARY TO ADDRESS FIELD CONDITIONS AND/OR AS ORDERED BY THE TOWN, OR THEIR AGENT.
7. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR IMPLEMENTING THIS EROSION AND SEDIMENT CONTROL PLAN AND ENFORCING THE PRESCRIBED SAFEGUARDS DURING THE CONSTRUCTION PERIOD. THIS RESPONSIBILITY INCLUDES THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES THROUGHOUT THE CONSTRUCTION PERIOD, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN, NOTIFYING THE PROPER MUNICIPAL AGENCIES AND OFFICIALS OF ANY TRANSFER OF THIS RESPONSIBILITY.
8. EROSION CONTROL MATTING IS REQUIRED ON ALL SEEDED SLOPES GREATER THAN 1:6. SEE SPECIFICATIONS.
9. ALL EXISTING CATCH BASINS TO REMAIN MUST HAVE FILTER BAGS INSTALLED PRIOR TO MOBILIZATION.
10. HAY BALES OR SILT WADDLES MUST BE USED IN ALL AREAS WHERE SILT FENCE IS NOT FEASIBLE OR CANNOT BE INSTALLED DUE TO SUBSURFACE OBSTRUCTIONS.
11. ALL SOIL STOCKPILES MUST HAVE E&S CONTROLS INSTALLED ENTIRELY AROUND THE STOCKPILE TO PREVENT SEDIMENT FROM ESCAPING DURING RAIN EVENTS AND COVERED TO PREVENT EROSION BY WIND.
12. DURING PERIODS OF DROUGHT, EXPOSED SOILS NOT STABILIZED SHALL BE IRRIGATED TO PREVENT EROSION BY WIND.
13. THE CONTRACTOR MAY INCUR FINES IF E&S CONTROLS ARE INSPECTED BY THE TOWN OR STATE AND FOUND TO BE MISSING, DAMAGED, OR NOT CONTAINING SEDIMENT ON-SITE.
4. THE CUT FACE OF EARTH EXCAVATIONS SHALL NOT EXCEED FINAL SLOPES GREATER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
5. THE PERMANENT EXPOSED FACES OF AREAS OF FILL SHALL NOT EXCEED FINAL SLOPES GREATER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
6. THE CUT FACE OF ROCK EXCAVATION SHALL NOT EXCEED FINAL SLOPES GREATER THAN ONE HORIZONTAL TO ONE VERTICAL (1:1).
7. NO FILL SHALL BE PLACED IN AREAS WHERE CONDITIONS ALLOW THE MATERIAL TO SLIDE OR WASH UPON THE PREMISES OF ANOTHER OWNER, OR INTO AREAS OF ADJACENT WETLANDS, WATERCOURSES OR WATER BODIES.
8. AS CONDITIONS REQUIRE, LATERAL WATER DIVERSIONS SHALL BE INSTALLED ACROSS THE GRADED ROADWAY TO PREVENT DOWN SLOPE OUTWASH AND EROSION. (WATER BARS)
9. PROVISIONS SHALL BE MADE TO CONVEY SURFACE WATER SAFELY TO PERMANENTLY ESTABLISHED AREAS OF VEGETATIVE COVER IN ORDER TO PREVENT SURFACE RUNOFF FROM DAMAGING CUT FACES AND FILL SLOPES.
10. CONTRACTOR SHALL VERIFY ALL EXISTING GRADES IN THE FIELD AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE LANDSCAPE ARCHITECT PRIOR TO COMMENCING WORK. THE STARTING OF WORK INDICATES THE CONTRACTOR HAS REVIEWED AND ACCEPTED EXISTING CONDITIONS.
11. CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF ANY CONFLICTS BETWEEN UTILITY PLANS, LANDSCAPE PLANS AND GRADING PLANS.
12. CONTRACTOR SHALL BLEND NEW TOPSOIL FINISH GRADES SMOOTHLY INTO EXISTING GRADES, PROVIDING VERTICAL CURVES OR ROUNDED TRANSITIONS AT THE TOP AND BOTTOM OF SLOPES.
13. PITCH EVENLY BETWEEN SPOT GRADES.
14. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MINIMUM SLOPE OF ONE-EIGHTH INCH (1/8") PER FOOT (1%). ANY SITE CONDITIONS OR CONFLICTS PREVENTING THIS OCCURRENCE SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT PRIOR TO CONTINUING THE WORK. NEW PAVEMENT AREAS MUST HAVE POSITIVE DRAINAGE TOWARDS THE STREET CURB OR TOWARDS DRAINAGE STRUCTURES. CROSS SLOPES OF WALKWAYS SHALL NOT EXCEED ONE-QUARTER INCH (1/4") PER FOOT (2%), CURB RAMP RUNNING SLOPE SHALL NOT EXCEED ONE INCH (1") PER FOOT (8.33%) IN A MAXIMUM SIX FEET (6'-0"), MAXIMUM SLOPES FOR WALKWAYS WITHOUT HANDRAILS SHALL NOT EXCEED NINETEEN-THIRTY SECONDS (19/32") PER FOOT (4.95%) . MAXIMUM SLOPES FOR RAMPS WITH HANDRAILS SHALL NOT EXCEED ONE INCH (1") PER FOOT (8.33%) FOR A MAXIMUM THIRTY FEET (30'-0" RUN. LEVEL LANDINGS (AS DEFINED BELOW) ARE REQUIRED AT THE TOP AND BOTTOM OF RAMPS (GRADES OVER 5%).
15. FINAL GRADES ADJACENT TO BUILDINGS SHALL HAVE 1/4" / FT MIN. SLOPE AWAY FROM BUILDING. THE EXTERIOR SIDE OF DOORWAYS SHALL HAVE A LEVEL LANDING NOT EXCEEDING 2% IN ANY DIRECTION FOR A MINIMUM RUNNING DIMENSION OF FIVE FEET (5'-0") FROM THE THRESHOLD AND EQUAL TO THE WIDTH OF THE WALKWAY SERVING THE DOOR, WITH A MINIMUM WIDTH OF 36".
16. WALKING SURFACES SHALL NOT HOLD WATER, ANY WALKING SURFACE WHICH PUDDLES WILL BE REJECTED.
17. FINAL GRADING OF ALL EARTHWORK SHALL BE AS DIRECTED AND APPROVED IN THE FIELD BY THE LANDSCAPE ARCHITECT.
18. CONTRACTOR SHALL PROVIDE DUST CONTROL FOR EARTHWORK OPERATIONS AS NOTED IN THE EROSION AND SEDIMENT CONTROL NOTES ON THIS SHEET.
19. RIM ELEVATIONS OF ALL DRAINAGE STRUCTURES AND OTHER UTILITY STRUCTURES SHALL BE SET FLUSH WITH FINAL SURROUNDING GRADES SO AS NOT TO CAUSE A TRIP HAZARD.
20. THE CONTRACTOR SHALL MAINTAIN OR ADJUST TO NEW FINISHED GRADES AS NECESSARY ALL UTILITY AND SITE STRUCTURES SUCH AS LIGHT POLES, SIGN POLES, MANHOLES, DRAINAGE STRUCTURES, HAND HOLES, WATER AND GAS GATES, HYDRANTS, ETC., FROM MAINTAINED UTILITY AND SITE SYSTEMS UNLESS OTHERWISE NOTED ON THE UTILITY DRAWINGS OR AS DIRECTED BY THE LANDSCAPE ARCHITECT.
21. CONTRACTOR SHALL HYDROSEED ALL AREAS DISTURBED BY THIS CONTRACT FOR WHICH NO OTHER SURFACE RESTORATION IS INDICATED BY THE CONTRACT DOCUMENTS.
22. CURBING SHALL HAVE A 6" REVEAL UNLESS NOTED OTHERWISE.

DEMOLITION

1. CONTRACTOR SHALL USE CAREFUL CONSTRUCTION PRACTICES TO MINIMIZE DISTURBANCE OF ALL ITEMS TO REMAIN.
2. SITE CLEANUP AND DISPOSAL OF ALL DEBRIS AND UNSUITABLES GENERATED BY DEMOLITION ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL DEMOLITION DEBRIS SHALL BE DISPOSED OF OFF-SITE PER LOCAL AND STATE REGULATIONS.
3. CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO SURROUNDING PROPERTY AS A RESULT OF CONSTRUCTION ACTIVITIES.

LAYOUT

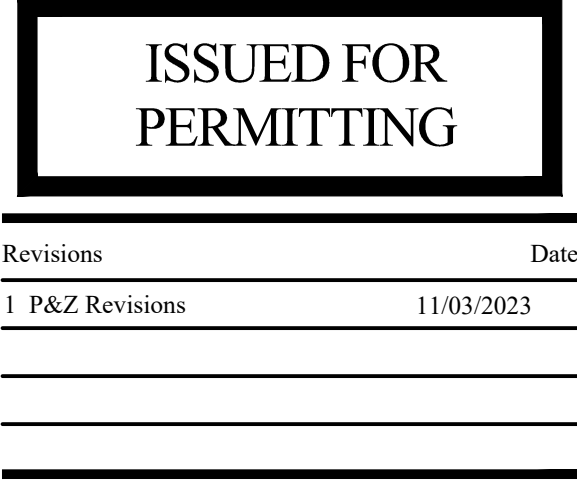
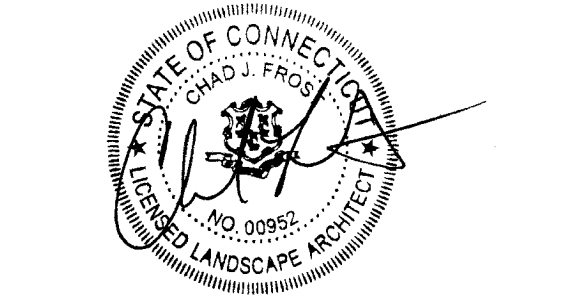
1. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND LAYOUT DIMENSIONS IN THE FIELD. REPORT ANY DISCREPANCIES OF THE DESIGN TO THE LANDSCAPE ARCHITECT PRIOR TO COMMENCING CONSTRUCTION.
2. STAKE OR OTHERWISE FLAG ALL DESIGN ELEMENTS AND FEATURES IN THE FIELD. OBTAIN LANDSCAPE ARCHITECTS APPROVAL PRIOR TO COMMENCING CONSTRUCTION.
3. ALL DIMENSIONS ARE FROM THE FACE OF WALL OR CURB UNLESS OTHERWISE NOTED. DIMENSIONS RELATING TO BUILDING ARE FROM FACE OF THE BUILDING FOUNDATION
4. ALL ANGLES ARE ASSUMED TO BE 90 DEGREES UNLESS OTHERWISE STATED.
5. ANY CHANGES TO PROPOSED DIMENSIONS SHOWN ON THIS DRAWING SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO COMMENCING CONSTRUCTION.
6. JUNCTIONS BETWEEN EXISTING AND PROPOSED WALKS AND WITH BUILDING THRESHOLDS MUST HAVE FLUSH TRANSITIONS AND MUST BE DOWELED (IF APPLICABLE) TO PREVENT SETTLING.

GRADING NOTES:

1. PRIOR TO ANY RE-GRADING ACTIVITY, THE INSTALLATION OF AN ANTI-TRACKING PAD SHALL BE COMPLETED AT THE CONSTRUCTION ENTRANCE TO THE WORK AREA IN ORDER TO REDUCE MUD AND OTHER SEDIMENTS FROM LEAVING THE CONSTRUCTION SITE
2. ALL MATERIALS USED SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT.
3. ANY UNSUITABLE MATERIALS EXPOSED WITHIN CONSTRUCTION AREAS ARE TO BE IDENTIFIED TO THE LANDSCAPE ARCHITECT PRIOR TO THE REMOVAL AND REPLACEMENT WITH SUITABLE MATERIAL AS DIRECTED BY THE LANDSCAPE ARCHITECT.

WATERFORD CIVIC TRIANGLE

184 Boston Post Road Waterford, CT 06385



Revisions	Date
1 P&Z Revisions	11/03/2023

PROJECT NOTES

Scale	
Date	October 11, 2023
K+F Project No.	2021014
Drawing No.	

L-1.0

TEMPORARY AND PERMANENT VEGETATIVE COVER

- IF FINAL GRADING MUST BE DELAYED FOR MORE THAN THIRTY DAYS AFTER THE CONSTRUCTION ACTIVITIES ARE COMPLETED AND/OR IF PERMANENT SEEDING IS NOT SEASONABLY POSSIBLE WITHIN THIRTY DAYS OF COMPLETION OF FINAL GRADING, TEMPORARY SOIL STABILIZATION MEASURES CONSISTING OF HEAVY MULCHING OR TEMPORARY SEEDING SHALL BE PERFORMED. THIS SHALL ALSO APPLY TO SOILS STOCKPILED IN EXCESS OF SIXTY DAYS. TEMPORARY SEEDING SHALL USE ANNUAL RYEGRASS APPLIED AT A RATE OF 2 LBS. /1000 SQ. FT. TEMPORARY MULCH SHALL BE WEED FREE HAY OR STRAW, OR AIR-DRIED WOOD CHIPS FREE OF COARSE MATTER, TREATED WITH TWELVE POUNDS OF NITROGEN PER TON. APPLICATION RATE FOR THE MULCH SHALL BE SEVENTY TO NINETY POUNDS PER ONE THOUSAND SQUARE FEET (70-90 LBS. /1000 SQ. FT.) FOR HAY OR STRAW, AND 185-275 LBS. /1000 SQ. FT. FOR WOOD CHIPS.
- ALL SOIL SHALL BE TESTED TO DETERMINE THE BEST FERTILIZER APPLICATION RATE; HOWEVER, THE FOLLOWING RATES SHALL GENERALLY APPLY. LIMESTONE SHALL BE APPLIED AT A RATE OF NINETY POUNDS PER ONE THOUSAND SQUARE FEET (90 LBS. /1000 SQ. FT.). WHERE A PERMANENT SEEDBED IS TO BE ESTABLISHED, THERE SHALL BE A MINIMUM DEPTH OF FOUR INCHES OF TOPSOIL SPREAD, FINE-GRADED AND RAKED TO REMOVE LARGE STONES AND OTHER DEBRIS.
- SPRING SEEDING**
 - PRIOR TO SEEDING, 300 POUNDS OF 10-10-10 FERTILIZER PER ACRE (7 LBS./1000 SQ. FT.) SHALL BE WORKED UNIFORMLY INTO THE TOPSOIL TO A DEPTH OF FOUR INCHES WITH A WHISK, A SPRING TOOTH HARROW OR OTHER SUITABLE EQUIPMENT; THEN SIX TO EIGHT WEEKS LATER SURFACE APPLY AN ADDITIONAL 300 POUNDS OF 10-10-10 FERTILIZER PER ACRE.
- FALL SEEDING**
 - PRIOR TO SEEDING, 600 POUNDS OF 10-10-10 FERTILIZER PER ACRE (14 LBS. /1000 SQ. FT.) SHALL BE WORKED UNIFORMLY INTO THE TOPSOIL TO A DEPTH OF FOUR INCHES WITH A WHISK, A SPRING TOOTH HARROW OR OTHER SUITABLE EQUIPMENT.
- PERMANENT SEEDBEDS ARE TO BE PLANTED BETWEEN MARCH 15 TO JUNE 15 (SPRING) AND AUGUST 15 TO OCTOBER 15 (FALL). ALL FERTILIZING/PLANTING APPLICATIONS SHALL BE PERFORMED PARALLEL WITH THE FINAL GRADING OF THE SLOPE. AFTER SEED APPLICATION, COVER GRASS AND LEGUME SEEDS WITH NOT MORE THAN 1/4 INCH OF SOIL WITH SUITABLE EQUIPMENT (EXCEPT WHEN HYDROSEEDING).
- SELECT ADAPTED SEED MIXTURE FOR ALL FINISHED GRASSES AS FOLLOWS:

WETLAND AREAS			
NEW ENGLAND WETMIX	100%	18 LBS/AC	
WETLAND SEED MIX IS COMPOSED OF A WIDE VARIETY OF NATIVE SEED SPECIES: CAREX LURIDA, CAREX SCOPARIA, VERBENA HASTATA, CAREX LUPULINA, SCIRPUS ATROVIRENS, PANICUM RIGIDULUM, DESCHAMPSIA CESPITOSA, BIDENS ARISTOSA, ELEOCHARIS PALUSTRIS, JUNCUS EFFRUSUS, CAREX CRINITA, MIMULUS RINGENS, ASTER PUNICEUS, EUPATORIUM PERFOROLIATUM, GLYCERIA CANADENSIS, ASCLEPIAS INCARNATA, HELENIUM AUTUMNALE, PENTHOTHUM SEDOIDES.			
FULL TO PARTIAL SUN AREAS			
KENTUCKY BLUEGRASS (0.50 LBS/1000 SQ. FT.)	45%	20 LBS/AC	
CREEPING RED FESCUE (0.50 LBS/1000 SQ. FT.)	45%	20 LBS/AC	
PERENNIAL RYEGRASS (0.10 LBS/1000 SQ. FT.)	10%	5 LBS/AC	
SHADY AREAS			
CREEPING RED FESCUE (1.00 LBS/1000 SQ. FT.)	90%	50 LBS/AC	
PERENNIAL RYEGRASS (0.10 LBS/1000 SQ. FT.)	10%	5 LBS/AC	
DROUGHTY AREAS			
CREEPING RED FESCUE (0.90 LBS/1000 SQ. FT.)	65%	40 LBS/AC	
TALL FESCUE (0.50 LBS/1000 SQ. FT.)	35%	20 LBS/AC	

- IMMEDIATELY FOLLOWING SEEDING, THE SEEDBEDS SHALL BE MULCHED WITH STRAW OR HAY FREE FROM WEEDS AND COARSE MATTER AT A RATE OF SEVEN TO NINE POUNDS PER ONE THOUSAND SQUARE FEET (7-9 LBS/1000 SQ. FT.) MULCH SHALL BE ANCHORED IMMEDIATELY AFTER SPREADING BY APPLICATION OF A LIQUID MULCH BINDER OR MULCH NETTING APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

PLANTING

- THE WETLAND ENHANCEMENT PLANTINGS SHALL BE SUPERVISED BY A WETLAND SCIENTIST TO VERIFY SPECIES SELECTION, PLANTING LOCATIONS AND SUITABILITY OF HYDROLOGY.
- PLANTING BEDS AND SEEDED LAWN AREAS SHALL RECEIVE TEMPORARY IRRIGATION UNTIL PLANTINGS HAVE BEEN ESTABLISHED IF NO IRRIGATION SYSTEM IS PLANNED, THE LANDSCAPE ARCHITECT SHALL DETERMINE WHEN TEMPORARY IRRIGATION MAY BE REMOVED.
- PLANT LOCATIONS ARE TO BE STAKED BY CONTRACTOR AND

- APPROVED BY THE LANDSCAPE ARCHITECT. INDIVIDUAL STAKES SHALL BE PLACED FOR TREES AND SHRUBS. EDGE OF PLANTING BEDS SHALL BE PAINTED. NOTIFY LANDSCAPE ARCHITECT 48 HOURS PRIOR TO DESIRED APPROVAL.
 - PLANTS SHALL COMPLY WITH SIZING AND GRADING STANDARDS OF THE LATEST EDITION OF "AMERICAN STANDARDS FOR NURSERY STOCK". PROVIDE STOCK TRUE TO BOTANICAL NAME AND LEGIBLY TAGGED. PLANTS SHALL BE FREE OF DEFECTS, DISEASES AND ALL FORMS OF INSECT INFESTATIONS.
 - ALL PLANTS SHALL BE PLANTED TO SAME DEPTH AS AT PLACE OF GROWTH, EXCEPT WHERE NOTED OTHERWISE.
 - ALL PLANTING BEDS SHALL RECEIVE 12" OF SPECIFIED SOIL MIXTURE: 11" SCREENED LOAM, 1" OF COMPOST. BLEND COMPOST INTO TOP 4" OF SOIL. PLANTING SOIL MIXTURE SHALL BE FREE OF SUBSOIL, LUMPS, STONES, PLANTS, ROOTS, AND OTHER FOREIGN MATTER.
 - ALL LAWN AREAS SHALL RECEIVE A MIN. OF 4" OF SCREENED LOAM.
 - ALL PLANTING BEDS SHALL BE MULCHED WITH FINELY SHREDDED, HARDWOOD BARK MULCH. TREES AND SHRUBS SHALL RECEIVE 3 INCHES, PERENNIAL AND GROUNDCOVER BEDS SHALL RECEIVE 2 INCHES. PROVIDE LANDSCAPE ARCHITECT WITH A 1 GALLON ZIP-LOCK SAMPLE FOR APPROVAL. KEEP ALL MULCH AWAY FROM TRUNKS AND PLANT CROWNS.
 - NO SUBSTITUTIONS OF PLANT SPECIES OR CULTIVARS IS ALLOWED BY THE CONTRACTOR UNLESS AUTHORIZED BY THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING OF PLANT AVAILABILITY ISSUES AS PER THE SPECIFICATIONS.
 - BURLAP, TWINE, AND WIRE SHALL BE COMPLETELY REMOVED OR CUT AWAY FROM TOP 1/3 OF ROOT BALL AT TIME OF INSTALLATION (SEE SPECIFICATION) .
 - SEE SPECIFICATIONS FOR PLANT WARRANTY.
 - ALL DISTURBED AREAS NOT DESIGNATED FOR OTHER IMPROVEMENTS SHALL BE HYDROSEED AS LAWN. HYDROSEED GRASS MIX SHALL BE DETERMINED BASED ON SEASON OF INSTALLATION.
 - ALL GRASS, OTHER VEGETATION AND DEBRIS SHALL BE REMOVED FROM ALL PLANTING BEDS PRIOR TO PLANTING OR BACKFILLING. CONTRACTOR SHALL REMOVE ALL DEBRIS FROM SITE AS WORK PROGRESSES.
 - CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES. SEE GRADING PLAN AND NOTES.
 - ALL TOP SOIL STRIPPED FOR REUSE SHALL BE SENT TO AND TESTED BY AN ACCREDITED SOIL TESTING LABORATORY AND AMENDED PER THEIR REQUIREMENTS. IF SOILS ARE UNSUITABLE THEY MUST BE REMOVED FROM SITE AND DISPOSED OF OFF PROPERTY PER LOCAL, STATE, AND FEDERAL LAW.
- POND DREDGING, BOARDWALK AND FOREBAY SEQUENCE OF CONSTRUCTION
- CONTRACTOR SHALL PERFORM ALL WORK IN THE DRY.
 - THE CONTRACTOR IS RESPONSIBLE FOR FINAL DESIGN OF THE DEWATERING SYSTEM. THIS INCLUDES QUANTITY AND SIZING OF WELL POINTS, PUMP, CONVEYANCE PIPING AND THE SEDIMENT SETTLING BASIN.
 - INSTALL NON-DISRUPTIVE EROSION AND SEDIMENT (E&S) CONTROL MEASURES. SILT SOCKS, TURBIDITY CURTAINS AND CONSTRUCTION FENCING AS DOCUMENTED AND AS DIRECTED BY THE LANDSCAPE ARCHITECT OR WETLANDS AGENT.
 - REMOVE NECESSARY VEGETATION AND INSTALL ANTI-TRACKING PADS AT THE DESIGNATED CONSTRUCTION ACCESS POINTS AND SILT FENCING.
 - DEMO TREES AND BRUSH DESIGNATED FOR REMOVAL.
 - INSTALL THE REMAINING E&S MEASURES FOR POND DREDGING INCLUDING SEDIMENT SETTLING BASINS AND DREDGE SOIL STOCKPILES.
 - PLACE EROSION CONTROL MATTING ALONG THE FOREBAY, STREAM AND POND EDGES AS INDICATED ON THE DRAWINGS TO PREVENT SCOUR.
 - STRIP TOPSOIL AS REQUIRED FOR THE FOREBAY INSTALLATION, STOCK PILE FOR RE-USE.
 - EXCAVATE TO THE REQUIRED GRADES INDICATED ON THE CIVIL DRAWINGS.
 - INSTALL THE FOREBAY COMPONENTS AS DIRECTED ON THE CIVIL DRAWINGS
 - POND LIFE PROTECTION - CONTRACTOR SHALL EITHER PROVIDE TEMPORARY HOLDING AREA FOR POND FISH AND AMPHIBIANS OR RELOCATE POND FISH AND AMPHIBIANS TO ANOTHER WATER BODY WITHIN THE TOWN OF WATERFORD, AS APPROVED BY THE WETLAND AGENT.
 - BEGIN THE INITIAL POND DEWATERING BY DRAWING DOWN THE POND WATER ELEVATION WITH A SCREENED INLET ON A PUMP INTAKE HOSE.
 - WHEN THE WATER LEVEL HAS REACHED ITS LOWEST POINT, CAREFULLY INSTALL WELL POINTS AS REQUIRED TO FURTHER DE-WATER THE POND AND SUBGRADE.
 - WHEN THE MUCK TOP LAYER IS SUFFICIENTLY DRY, USE EARTH MOVING MACHINES TO SCRAPE THE MUCK FROM THE POND AND STREAM AND MOVE TO THE IN-POND PRIMARY DEWATERING AREA NOTED ON THE PLANS. USE CARE NOT TO DISRUPT THE GRAVELLY POND SUB-BASE.
 - THE CONTRACTOR SHALL MAINTAIN ACTIVE IN-POND FLOW CHANNELS FROM THE NORTHERN FOREBAY TO SOUTHERN WEIR TO SEPARATE STORMWATER FLOW FROM ACTIVE WORK AREAS
 - ALLOW THE MUCK TO DEWATER PRIOR TO MOVING IT TO THE SECONDARY DEWATERING AREA.
 - AFTER SECONDARY DEWATERING, THE DRIED MUCK MAY BE

- HAULED TO THE STORAGE AREA FOR LONG TERM STORAGE.
- WHILE WAITING FOR THE PRIMARY DEWATERING TO OCCUR, POND DREDGING, FOREBAY AND BOARDWALK CONSTRUCTION MAY BEGIN CONCURRENTLY.
 - REGRADE POND BOTTOM TO THE GRADES AND ELEVATIONS NOTED ON THE POND DREDGING DRAWINGS.
 - EXCAVATED SAND/GRAVEL LAYER SHALL BE MOVED TO THE SAND/GRAVEL DEWATERING AREA NOTED ON THE PLANS. DEWATERED THEN HAULED AND DISPOSED OF OFF-SITE.
 - REMOVE SEDIMENT STOCKPILE E&S CONTROLS ONCE ALL SEDIMENT HAS BEEN REMOVED FROM THE SITE.
 - TEMPORARY SILTATION TRAPS (TST) AND DIVERSION SWALES SHALL BE INSTALLED AS NECESSARY AFTER COMPLETION OF DREDGING AND PRIOR TO COMMENCEMENT OF REMAINING SITE WORK ACTIVITIES. ALL DEWATERING DISCHARGE AND CONSTRUCTION RUNOFF SHALL BE DIRECTED TO THE TST'S. CONSTRUCTION WASTEWATERS SHALL NOT BE DIRECTLY DISCHARGED TO STORM DRAINAGE, WETLANDS, OR THE POND. AT ALL TIMES DURING CONSTRUCTION, THE TST'S AND SWALES SHALL BE MAINTAINED TO CONTROL RUNOFF AND PREVENT SEDIMENT DISCHARGE TO ADJACENT WETLANDS
 - REPAIR THE POND DAM IF REQUIRED
 - DEMO THE BRIDGES
 - INSTALL THE BOARDWALK AND BRIDGES AS DIRECTED ON THE STRUCTURAL ENGINEERING DRAWINGS AND AS PER THE GEOTECHNICAL ENGINEER.
 - INSTALL ANY ELECTRICAL CONDUITS ACROSS BRIDGES AND BOARDWALKS.
 - WHEN THE BOARDWALK SUB-STRUCTURES ARE IN PLACE, REPLACE STOCKPILED TOPSOILS.
 - INSTALL PERMANENT VEGETATION TO WITHIN 6' OF THE WATERS EDGE AS PER THE PLANTING PLAN
 - REMOVE ANY SEDIMENT DEPOSITS WITHIN THE LOW POINTS OF THE POND.
 - REMOVE DEWATERING EQUIPMENT, SEDIMENT SETTLING BASINS AND ALLOW THE POND TO FILL.
 - CONTRACTOR MAY MODIFY THIS SEQUENCE WITH WRITTEN APPROVAL FROM THE WETLANDS AGENT, LANDSCAPE ARCHITECT AND CIVIL ENGINEER.

REMAINING BOARDWALK, POND SIDWALK AND STREETSCAPE SEQUENCE OF CONSTRUCTION

- DEMOLISH ALL REMAINING ITEMS INCLUDING THE ROUTE 156 STREETSCAPE.
- STRIP TOPSOIL AND STOCKPILE ON-SITE.
- ROUGH GRADE THE SITE.
- INSTALL THE STREETSCAPE CURBS AND STONE WALLS
- INSTALL LIGHT POLE FOOTINGS
- INSTALL ELECTRICAL SERVICE CONDUITS, METER/DISTRIBUTION PEDESTAL, BRANCH CONDUITS.
- INSTALL THE STONE MEMORIAL PLAZA WALLS AND GRANITE MONUMENT
- INSTALL CONCRETE WALKS,STAIR, AND RAMPS
- INSTALL BOARDWALK DECKING, HANDRAILS, SEATING ELEMENTS AND ELECTRICAL CONDUITS.
- INSTALL LIGHT POLES & COMMISSION LIGHTING SYSTEM
- INSTALL SITE FURNISHINGS
- MIX POND MUCK WITH EXISTING STRIPPED TOP SOIL, PLACE AND FINE GRADE SOIL.
- HAUL EXCESS POND MUCK OFF-SITE OR AS DIRECTED BY THE TOWN
- INSTALL TREES, SHRUBS, PERENNIALS, AND REMAINING WETLAND PLANTS.
- REMOVE ANTI-TRACKING PADS AND INFILL WITH TOPSOIL
- HYDROSEED ALL TURF
- ESTABLISH AND IRRIGATE TURF UNTIL TWO MOWINGS
- REMOVE CONSTRUCTION FENCE
- CLEAN ALL SURFACES TO LIKE NEW CONDITION
- REMOVE E&S CONTROLS & REPAIR BARE SOIL

Legend:

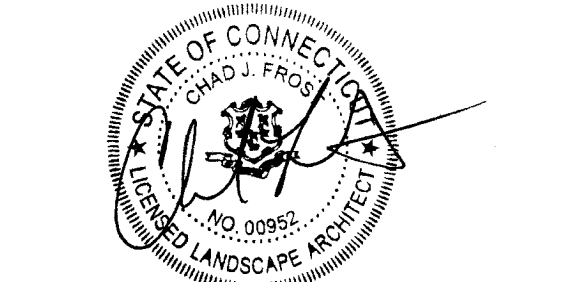
	LIMIT OF WORK LINE		GAS METER		DEMO ASPHALT
	EXISTING CONTOUR MAJOR		GAS VALVE		DEMO CONCRETE
	EXISTING CONTOUR MINOR		DRAINAGE MANHOLE		CLEAR AND GRUB
	PROPOSED CONTOUR		CATCHBASIN		DEMO TREE
	SPOT ELEVATION EXISTING		TELEPHONE MANHOLE		FULL DEPTH ASPHALT ROADWAY
	SPOT ELEVATION PROPOSED		PEDESTRIAN LIGHT POLE		ASPHALT SIDEWALK
	EXISTING STONE WALL		UTILITY COMPANY LIGHT		CONCRETE SIDEWALK
	PROPOSED RETAINING WALL		UTILITY POLE		CONCRETE SIDEWALK - WETLAND
	OVERHEAD WIRES		EXISTING STREET SIGN		POROUS PAVERS
	UNDERGROUND ELECTRIC		PROPOSED STREET SIGN		STONE CURBING
	SANITARY LINE		ROCK		ASPHALT CURB TO STONE CURB TRANSITION
	WATER LINE		EXISTING VEGETATION		
	TELEPHONE LINE		EXISTING TREE		
	GAS LINE		PROPOSED TREE		
	CHAIN LINK FENCE		FLUSH TRANSITION		
	HAYBALE BARRIER		BENCH		
	SILT FENCE		TRASH & RECYCLING CAN		
	SILT SOCK		BIKE RACK		
	TURBIDITY CURTAIN				
	TREE PROTECTION FENCE				
	WATER MANHOLE				
	WATER SHUT OFF				
	WATER VALVE				
	WATER METER				
	FIRE HYDRANT				

ABBREVIATIONS:

HP	HIGH POINT	O/S	OFF SET
LP	LOW POINT	CL	CENTER LINE
TW	TOP OF WALL	±	PLUS/MINUS
BW	BOTTOM OF WALL	PC	POINT OF CURVE
TC	TOP OF CURB	PRC	POINT OF REVERSE CURVE
BC	BOTTOM OF CURB	PT	POINT OF TANGENT
TS	TOP OF STEP	LT	LEFT
BS	BOTTOM OF STEP	RT	RIGHT
CB	CATCH BASIN	L	LENGTH
TF	TOP OF FRAME	R	RADIUS
INV	INVERT	D	DEGREES
MH	MAN HOLE	CHORD	CHORD LENGTH
RCP	REINFORCED CONCRETE PIPE	CORNER	CORNER
VIF	VERIFY IN FIELD	BLDG	BUILDING
FFE	FINISH FLOOR ELEVATION	MAX	MAXIMUM
VIF	VERIFY IN FIELD	HDPE	HIGH DENSITY POLYETHYLENE
EX	EXISTING		
EQ	EQUAL		

WATERFORD CIVIC TRIANGLE

184 Boston Post Road Waterford, CT 06385

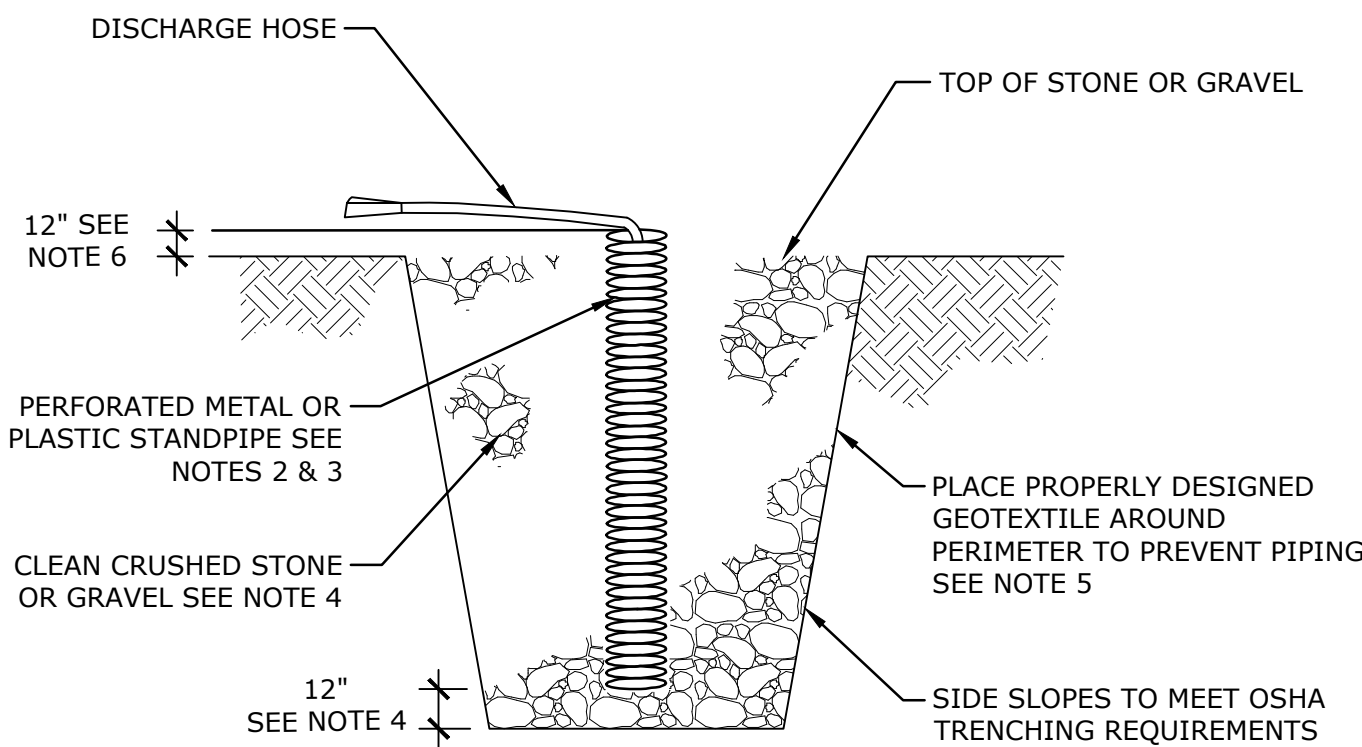


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Revisions	Date
1 P&Z Revisions	11/03/2023

PROJECT NOTES

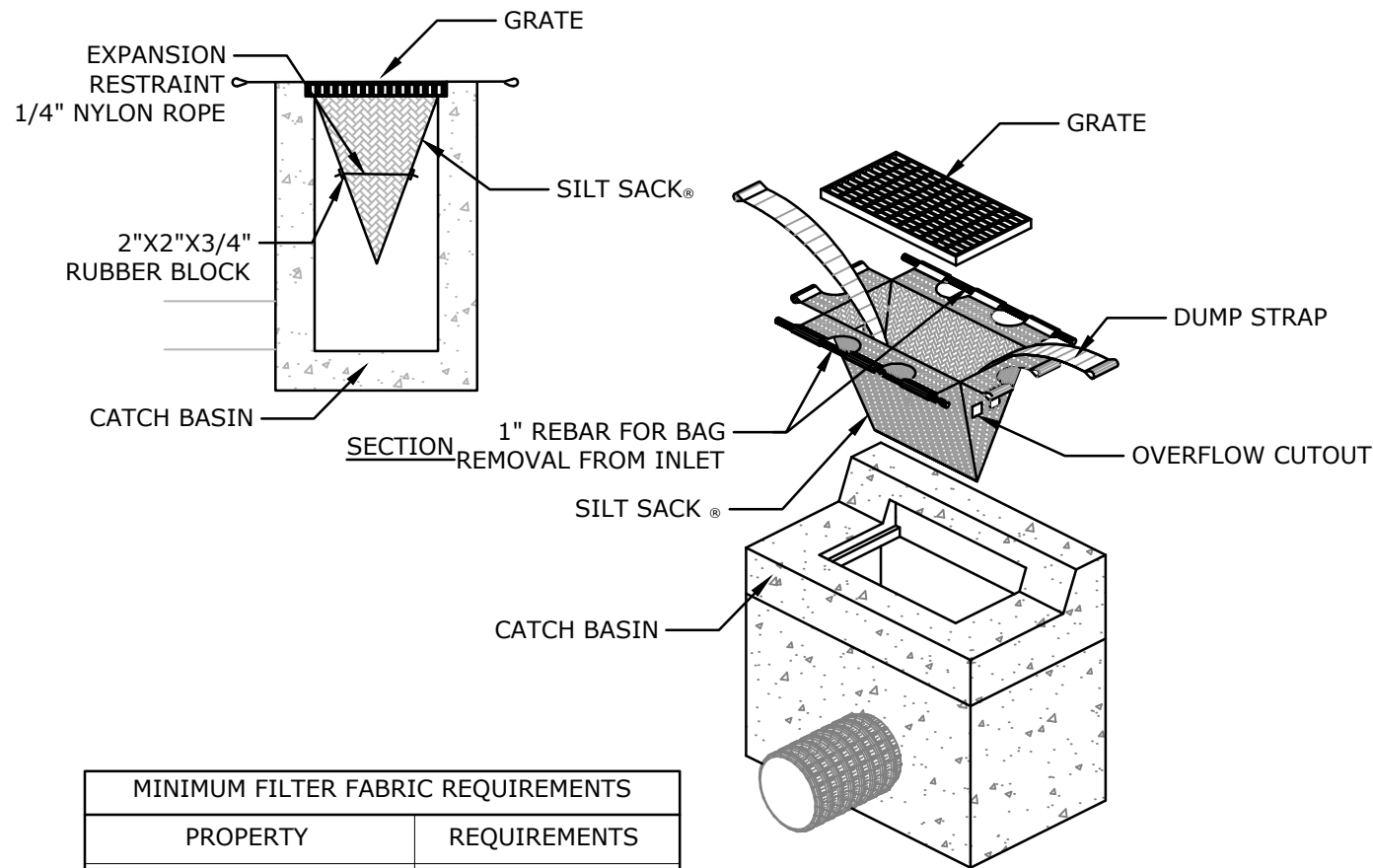
Scale	
Date	October 11, 2023
K+F Project No.	2021014
Drawing No.	

L-1.1



NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR DESIGN OF THE DEWATERING SYSTEM AND MUST COMPLY WITH THE REQUIREMENTS SET FORTH IN SECTION 2.04 "COFFERDAM AND DEWATERING, COFFERDAM MATERIAL LEFT IN PLACE" OF THE CT DOT FORM 818 OR THE MOST CURRENT EDITION. THIS DETAIL AND THE FOLLOWING TEXT IS FOR REFERENCE ONLY AND SHALL NOT BE USED AS A CONSTRUCTION DETAIL.
- OVERALL SUMP PIT DEPTH SHALL BE COMPATIBLE WITH ANTICIPATED SEEPAGE RATES AND PUMP SIZE TO BE USED
- THE STANDPIPE DIAMETER AND NUMBER OF PERFORATIONS SHALL BE COMPATIBLE WITH THE PUMP SIZE BEING USED
- PERFORATIONS IN THE STANDPIPE SHALL BE EITHER CIRCULAR OR SLOTS
PERFORATION SIZE SHALL NOT EXCEED $\frac{1}{8}$ " DIAMETER
- CRUSHED STONE OR GRAVEL SHALL BE NO SMALLER THAN CT DOT #67 SIZE NOR LARGER THAN CT DOT #3 SIZE
CRUSHED STONE SHALL EXTEND A MINIMUM OF 12" BELOW THE BOTTOM OF STANDPIPE
- IF EXCESSIVE MOVEMENT OF THE FINE SOIL PARTICLES FROM THE SURROUNDING EXISTING SOILS IS ANTICIPATED, A PROPERLY DESIGNED GEOTEXTILE SHALL BE PLACED BETWEEN THE EXISTING SOILS AND THE CRUSHED STONE OR GRAVEL BACKFILL
- THE STANDPIPE SHALL EXTEND A MINIMUM 12" ABOVE THE SURROUNDING GROUND
- EFFLUENT FROM DEWATERED WORK AREA(S) SHOULD NOT BE DISCHARGED DIRECTLY INTO ANY WATERWAY, BUT BE PROCESSED THROUGH AND APPROPRIATE TREATMENT STRUCTURE(S)



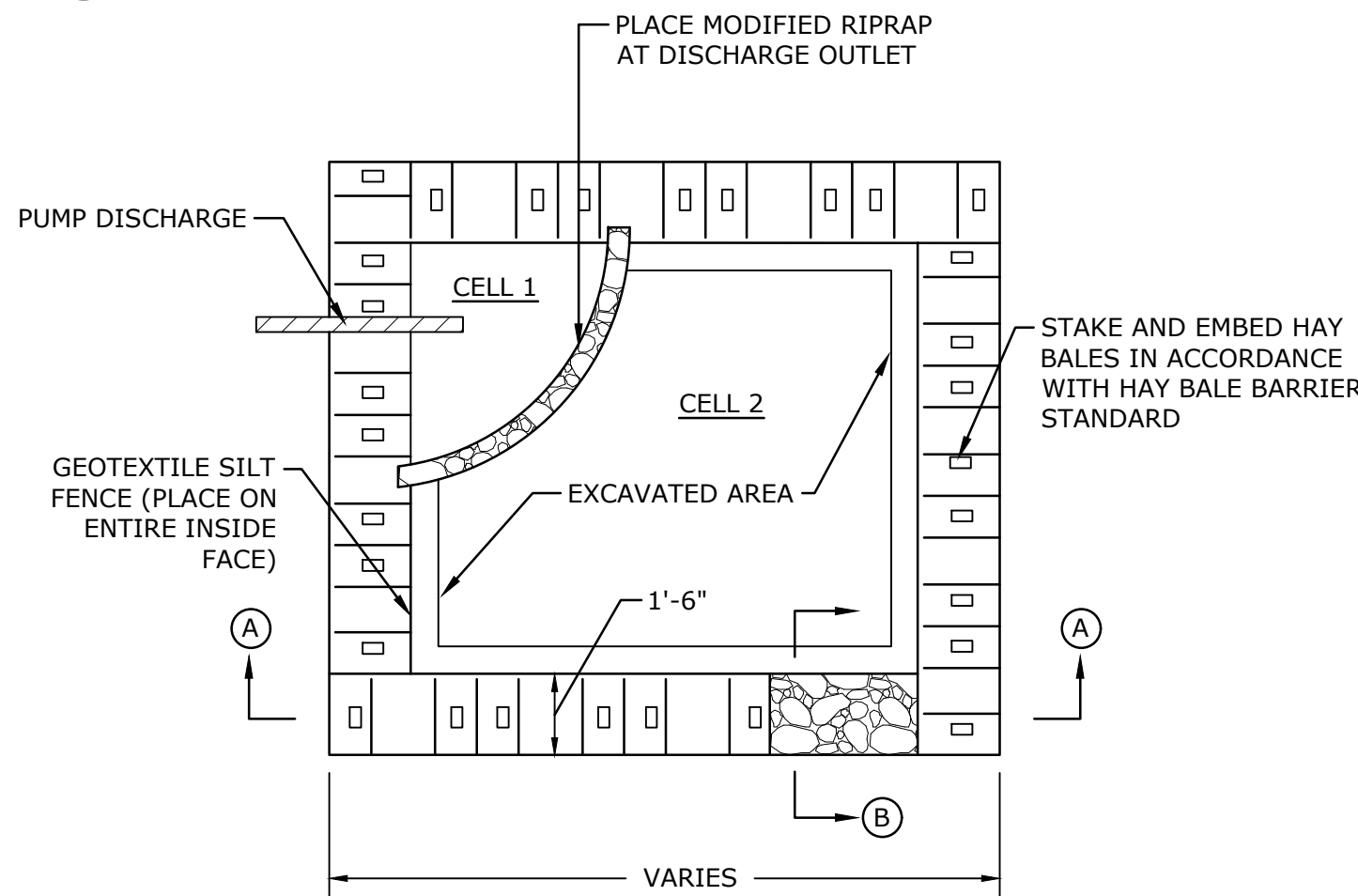
MINIMUM FILTER FABRIC REQUIREMENTS	
PROPERTY	REQUIREMENTS
TENSILE STRENGTH AT 15% (MAX) ELONGATION	167 LBS
MULLEN BURST STRENGTH	900 LBS
PERMITTIVITY	.862 SEC
FLOW RATE	66 GAL/MINUTE/SF
UV STABILITY	96%

ISD

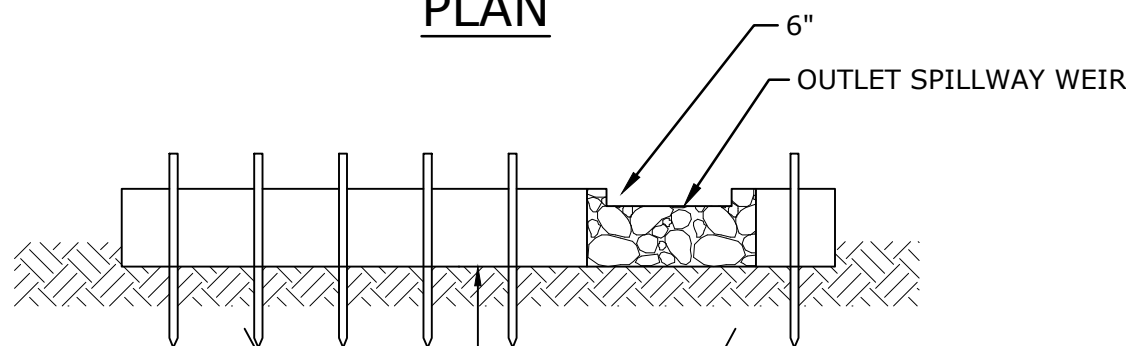
7 TYPICAL DEWATERING SUMP PIT

NTS

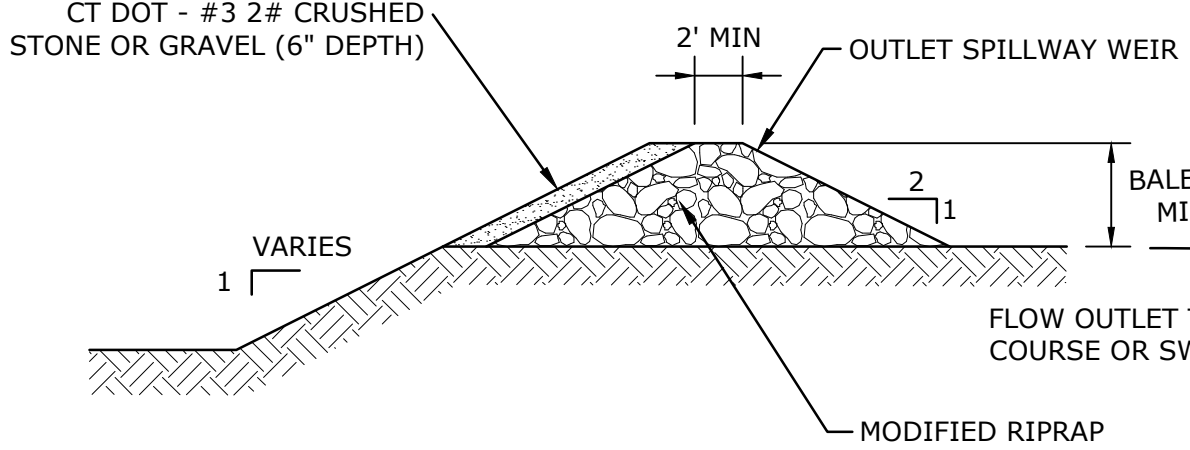
P-2021-014-WATE-106



PLAN



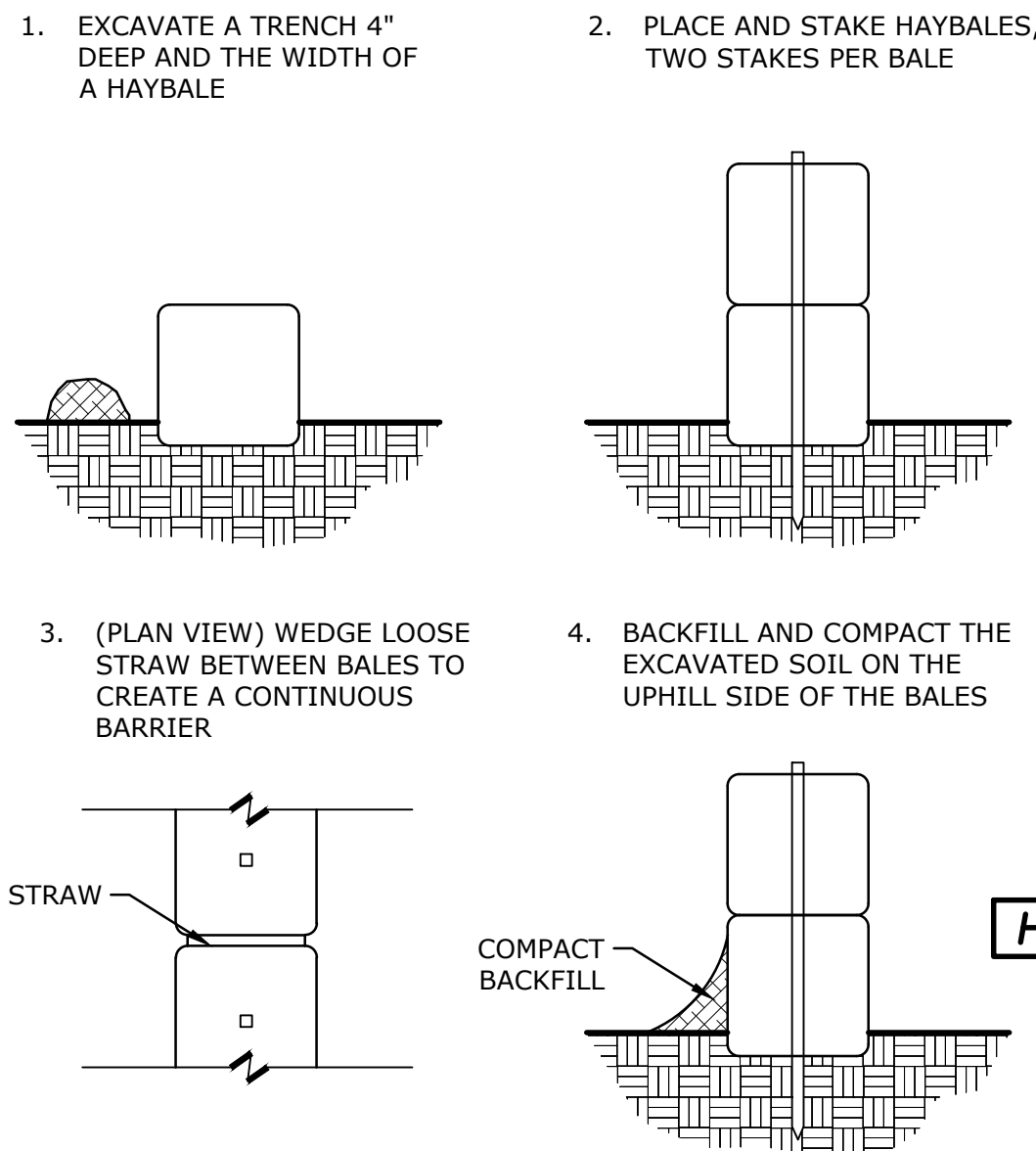
SECTION A-A



SECTION B-B

- NOTE:
- DIMENSIONS VARY ACCORDING TO PUMPING RATES
 - MINIMUM REQUIRED STORAGE IS CALCULATED FROM CREST OF SPILLWAY WEIR

SB

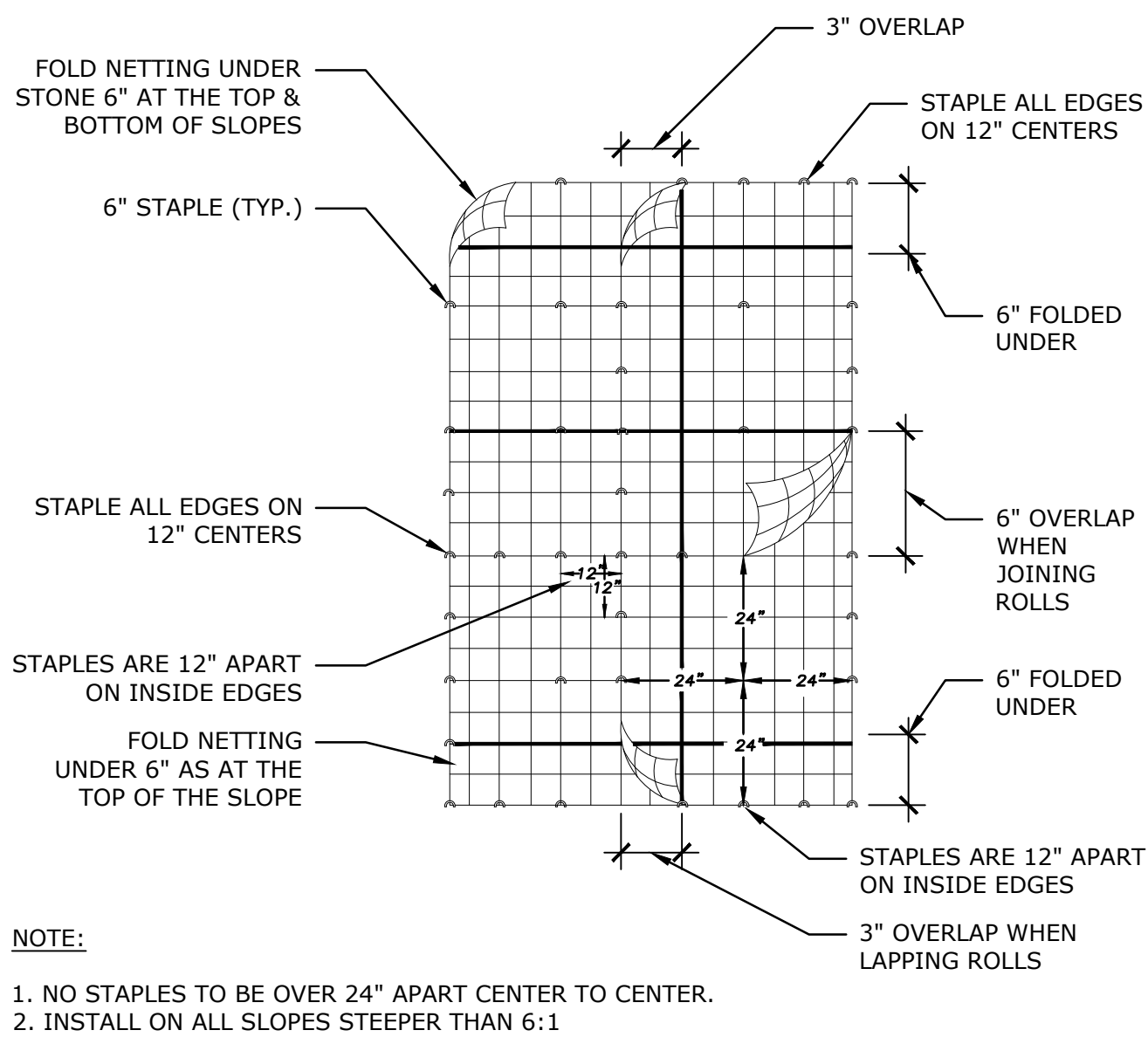


HB

5 HAYBALE BARRIER INSTALLATION

NTS

P-2021-014-WATE-10



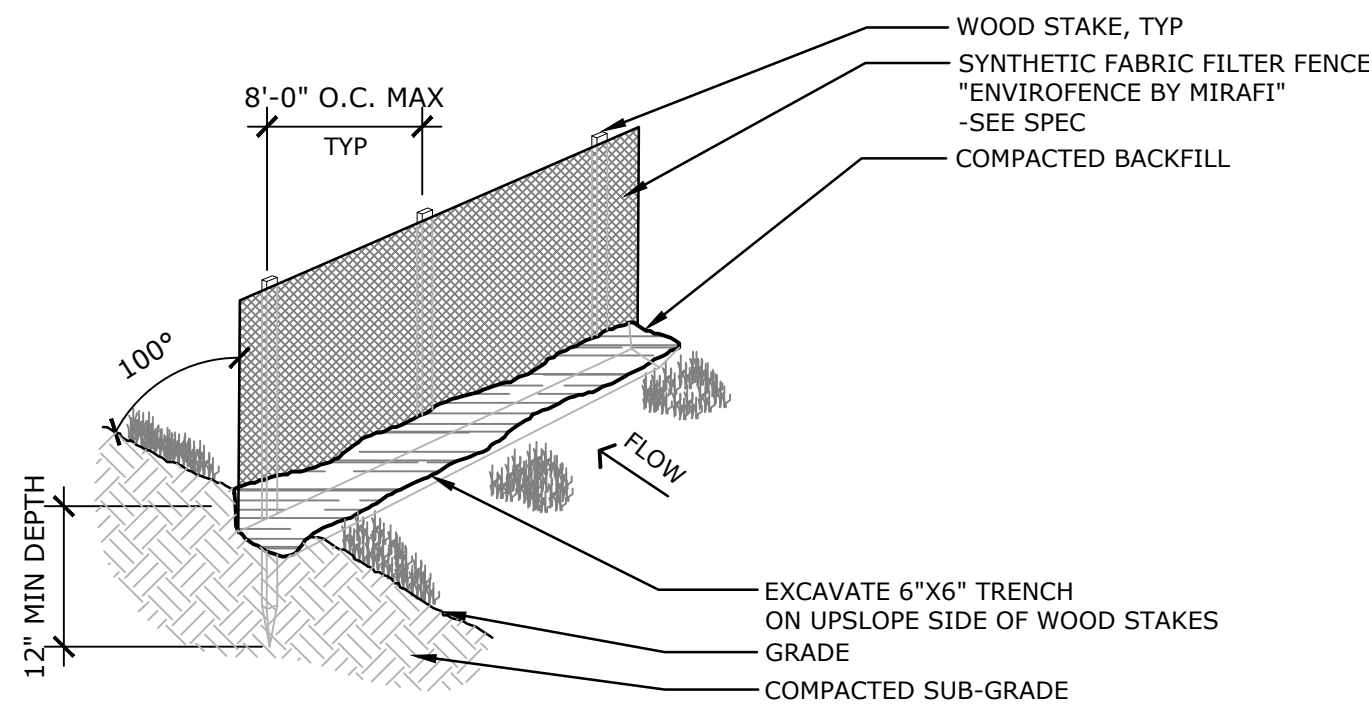
NOTE:

- NO STAPLES TO BE OVER 24" APART CENTER TO CENTER.
- INSTALL ON ALL SLOPES STEEPER THAN 6:1

3 CATCHBASIN SEDIMENT CONTROL DEVICE

NTS

P-2021-014-WATE-04



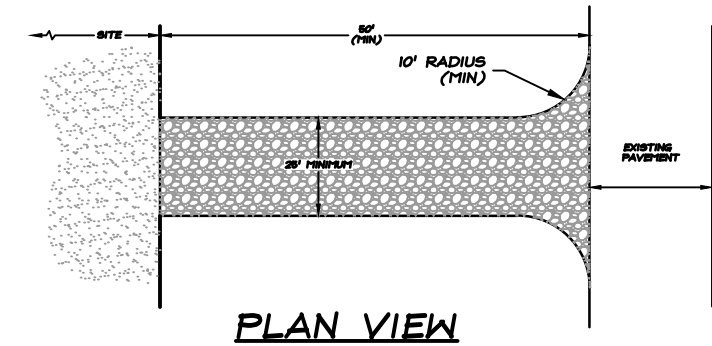
MINIMUM FILTER FABRIC REQUIREMENTS	
PHYSICAL PROPERTIES	REQUIREMENTS
FILTERING EFFICIENCY	75% MINIMUM
TENSILE STRENGTH AT 20% (MAX) ELONGATION	EXTRA STRENGTH 50 LBS/LI (MIN) STANDARD STRENGTH 30 LBS/LI (MIN)
FLOW RATE	0.30 GAL/SQ.FT./MINUTE (MIN)

GSF

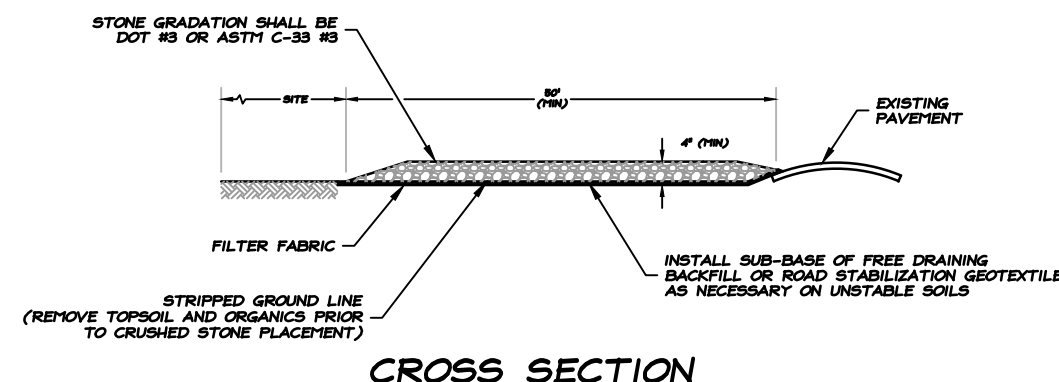
2 SILT FENCE

NTS

P-2021-014-WATE-03



PLAN VIEW

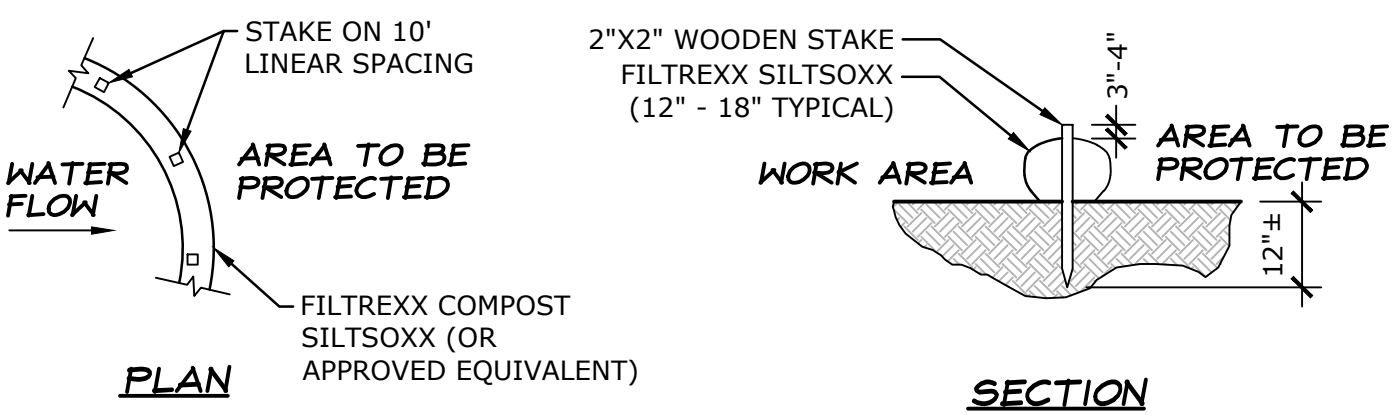


CROSS SECTION

NOTES:

- ENTRANCE WIDTH SHALL BE A TWENTY-FIVE FOOT (25') MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY
THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANUP OF ANY TREASURES USED TO TRAP SEDIMENT
ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY
PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AS NEEDED
- CONSTRUCTION ENTRANCE IS TO BE LOCATED IN THE FIELD WITH LANDSCAPE ARCHITECT AND CONTRACTOR

CE



PLAN

SECTION

MINIMUM FILTER FABRIC REQUIREMENTS	
PHYSICAL PROPERTIES	REQUIREMENTS
FILTERING EFFICIENCY	75% MINIMUM
TENSILE STRENGTH AT 20% (MAX) ELONGATION	EXTRA STRENGTH 50 LBS/LI (MIN) STANDARD STRENGTH 30 LBS/LI (MIN)
FLOW RATE	0.30 GAL/SQ.FT./MINUTE (MIN)

SS

NOTES:

- ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS OR APPROVED EQUIVALENT
- COMPOST/SOIL/ROCK/SEED FILL TO MEET APPLICATION REQUIREMENTS
- SILT SOCK IS DEPICTED FOR MINIMUM SLOPES. GREATER SLOPES MAY REQUIRE LARGER SOCKS PER THE ENGINEER
- COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

8 SILT SOCK

NTS

P-2021-014-WATE-05

6 TYPE II PUMPING SETTLING BASIN

NTS

P-2021-014-WATE-105

4 EROSION CONTROL MATTING

NTS

P-2021-014-WATE-69

1 TEMPORARY CONSTRUCTION ENTRANCE

NTS

P-2021-014-WATE-02

EROSION AND
SEDIMENT CONTROL
DETAILS

Revisions	Date
1 P&Z Revisions	11/03/2023

Scale	AS NOTED
Date	October 11, 2023
K+F Project No.	2021014
Drawing No.	

L-2.1

WATERFORD
CIVIC TRIANGLE

184 Boston Post Road Waterford, CT 06385

LANDSCAPE
**KENT+
FROST**
ARCHITECTURE

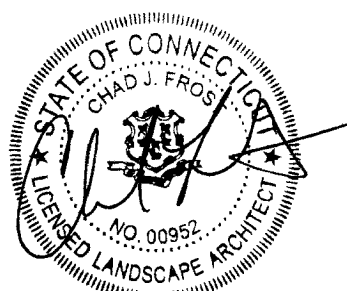
1 HIGH STREET
MYSTIC, CT 06355
860.572.0784
f866.283.3840



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CONSULTANTS, LLC
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LEBANON, CT 06249
(860) 367-7264

LEGEND:

- DEMO ASPHALT
- DEMO CONCRETE WALK & INTEGRAL CURB
- DEMO TREES, CLEAR & GRUB UNDERBRUSH
- CLEAR AND GRUB
- DEMO TREES AND VINES WITHIN HATCHED AREA
- SAW CUT
- DEMO TREE



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Revisions Date
1 P&Z Revisions 11/03/2023

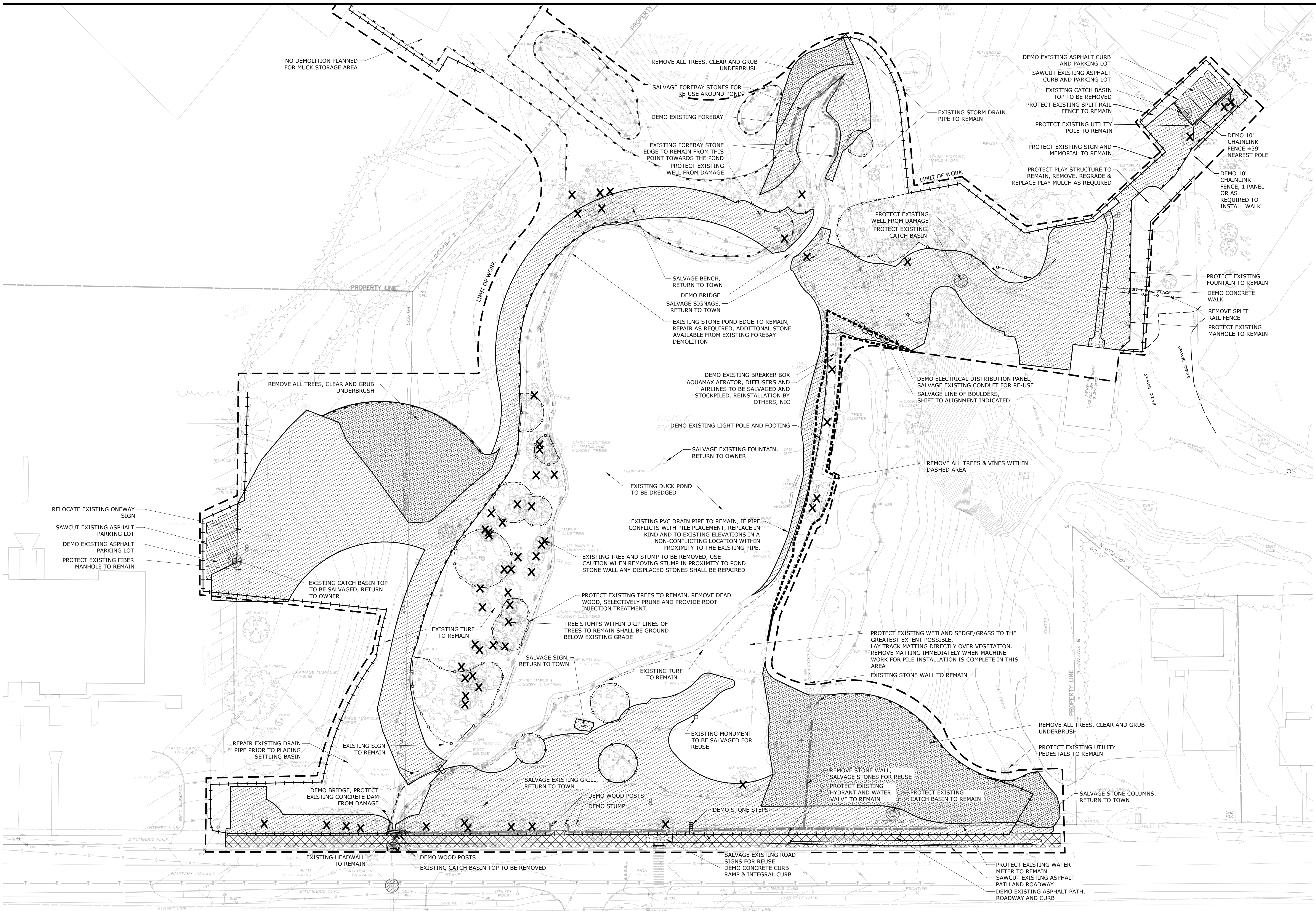


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SITE DEMOLITION

Scale 1" = 30'
Date October 11, 2023
K+F Project No. 2021014
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L-3.0



WATERFORD
CIVIC TRIANGLE

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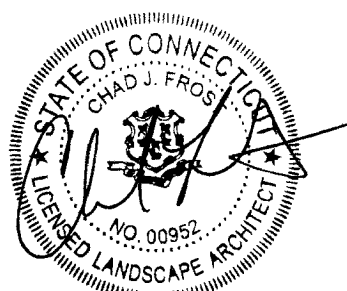
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LEGEND:

- ASPHALT - FULL DEPTH
- BITUMINOUS WALKWAY
- CONCRETE PAVEMENT
- CONCRETE PAVEMENT - WETLANDS
- POROUS PAVERS
- BOARDWALK/BRIDGE
- WETLANDS PLANTING
- HYDROSEEDED TURF
- STONE WALL
- GRANITE CURB
- TRANSITION FROM GRANITE TO BITUMINOUS CURB
- TREE



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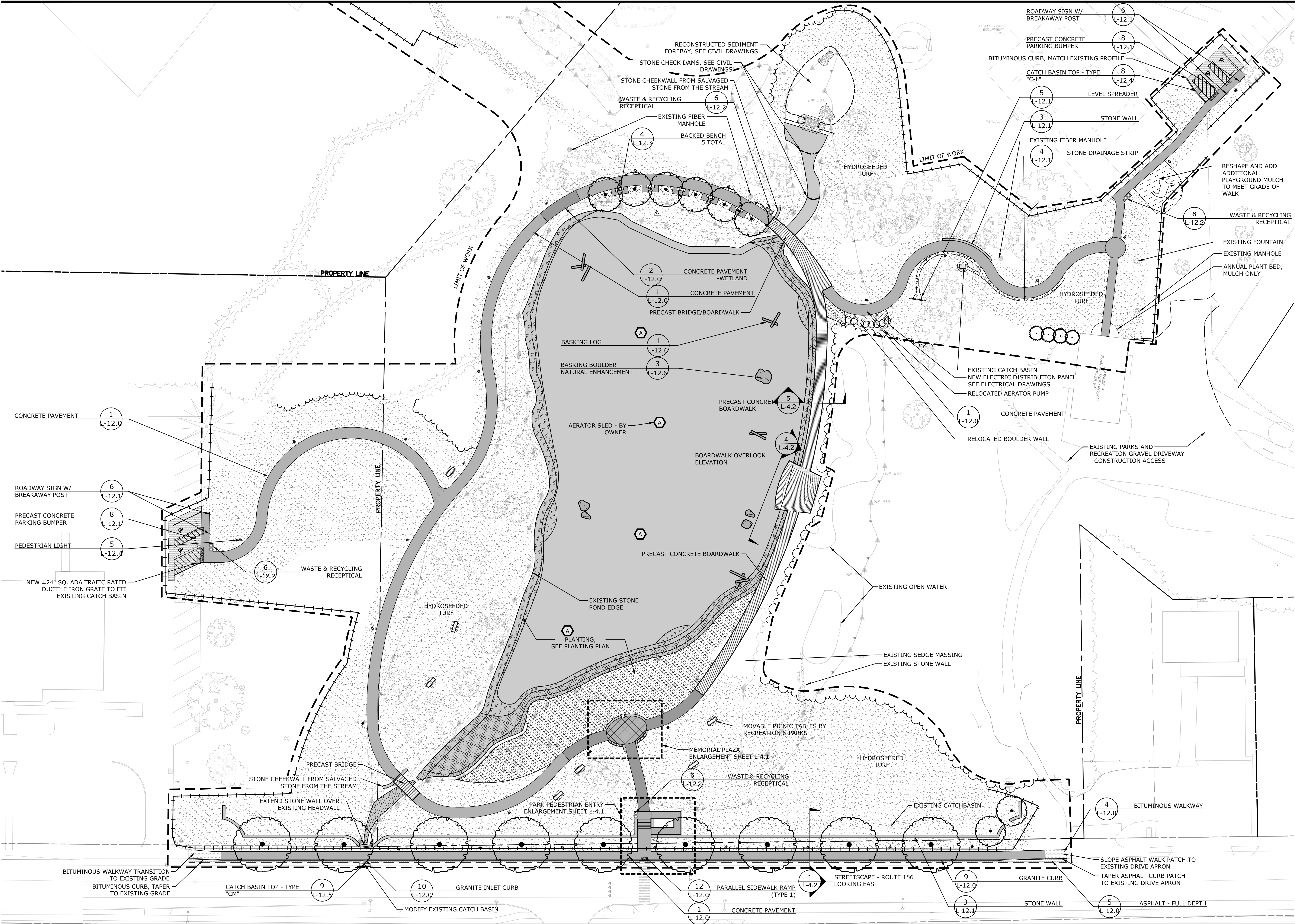
Revisions Date
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SITE IMPROVEMENTS

Scale 1" = 30'
Date October 11, 2023
K+F Project No. 2021014
Drawing No.

L-4.0



WATERFORD
CIVIC TRIANGLE

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LANDSCAPE

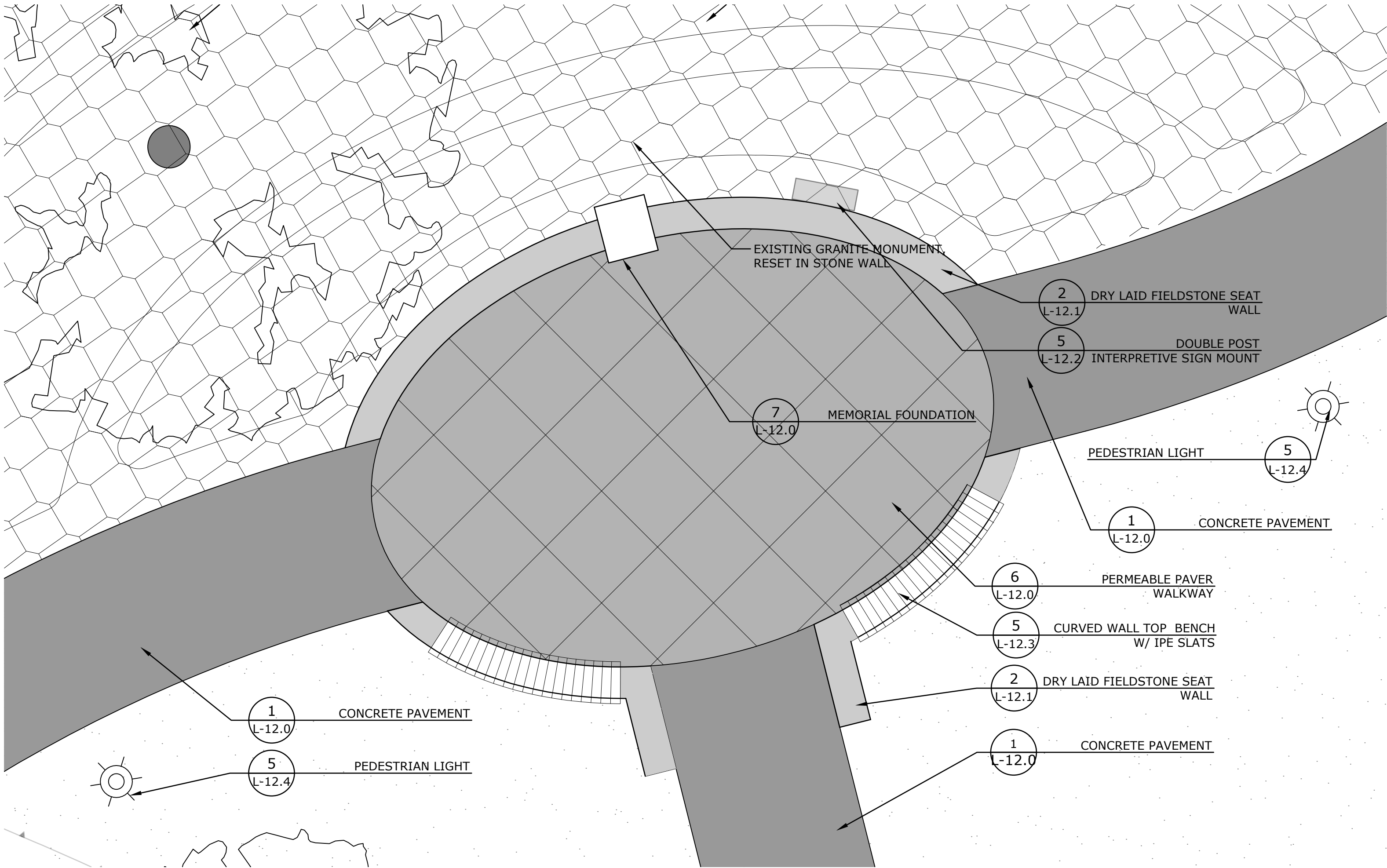
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ARCHITECTURE

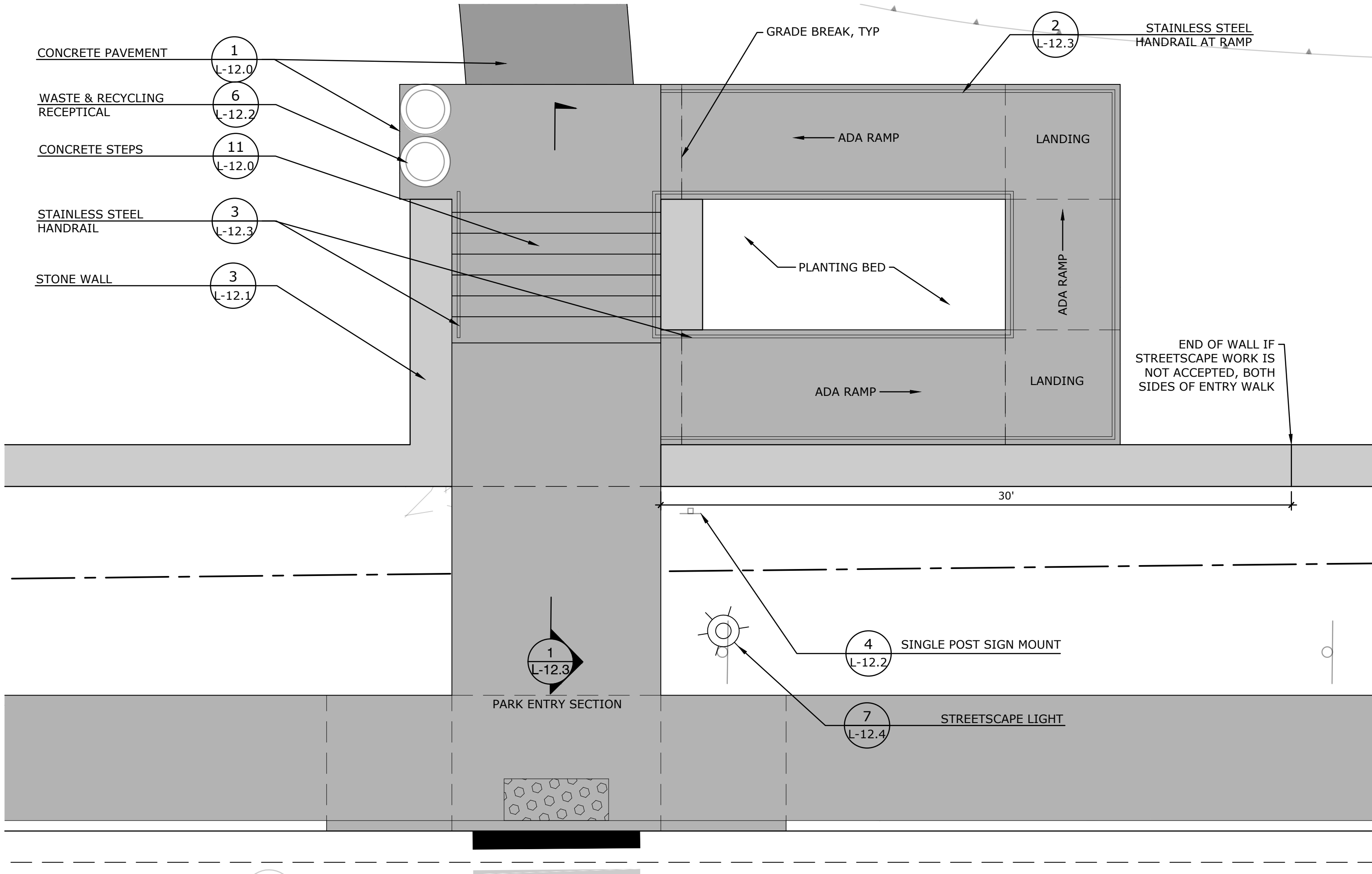
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YRC

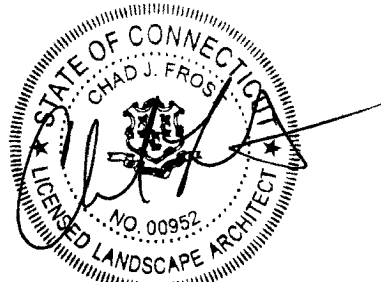
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02 MEMORIAL PLAZA



02 PARK PEDESTRIAN ENTRY



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1 P&Z Revisions	11/03/2023



SITE ENLARGEMENTS

Scale	1/4" = 1'
Date	October 11, 2023
K+F Project No.	2021014
Drawing No.	

L-4.1

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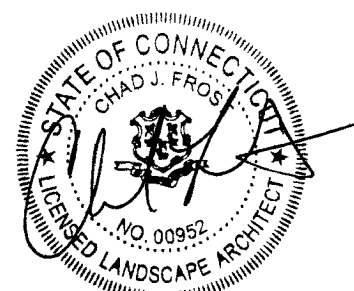
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ARCHITECTURE

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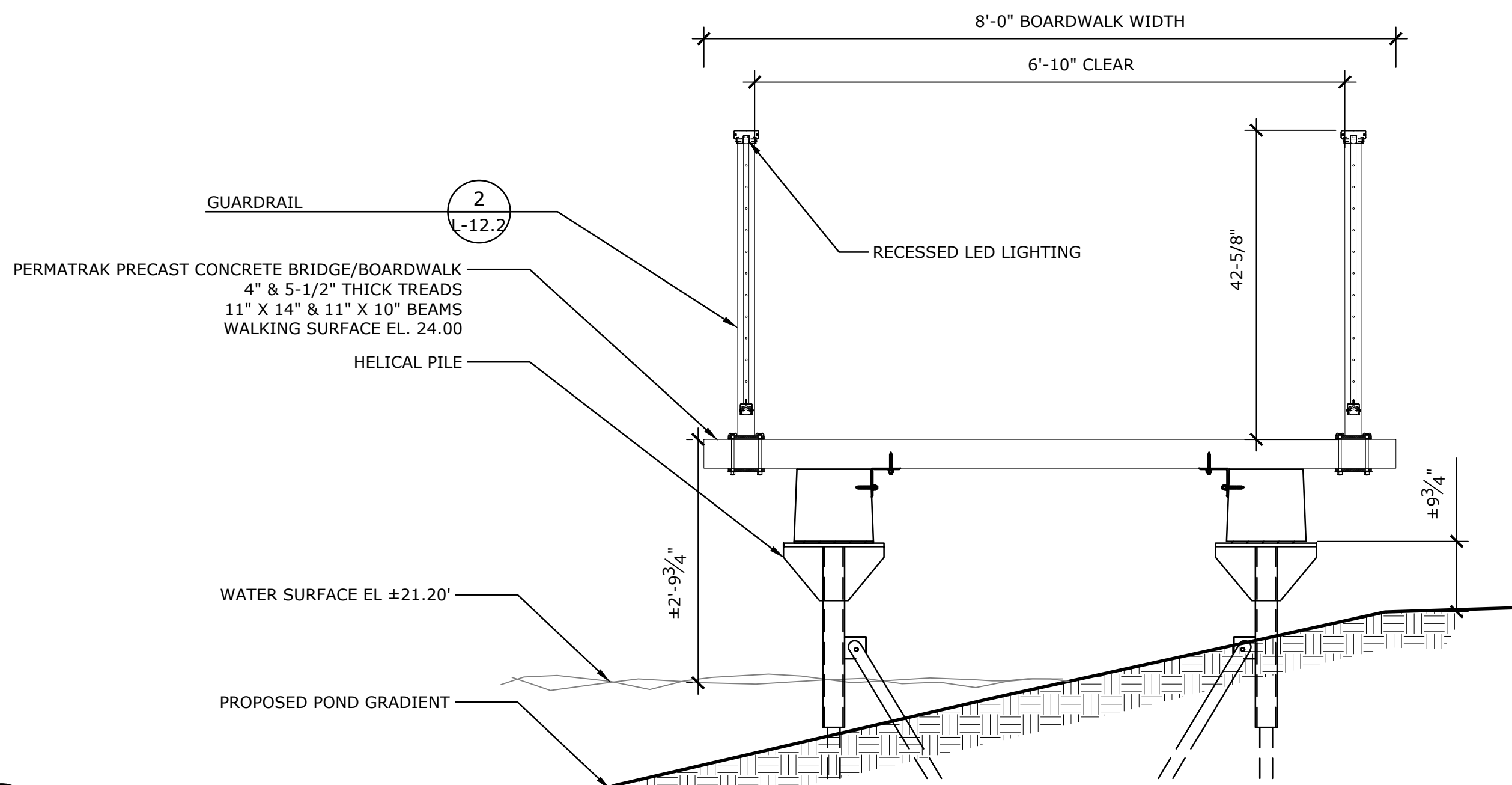
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PERMITTING

Revisions	Date
1 P&Z Revisions	11/03/2023

SITE CROSS
SECTIONS

Scale	
Date	October 11, 2023
K+F Project No.	2021014
Drawing No.	

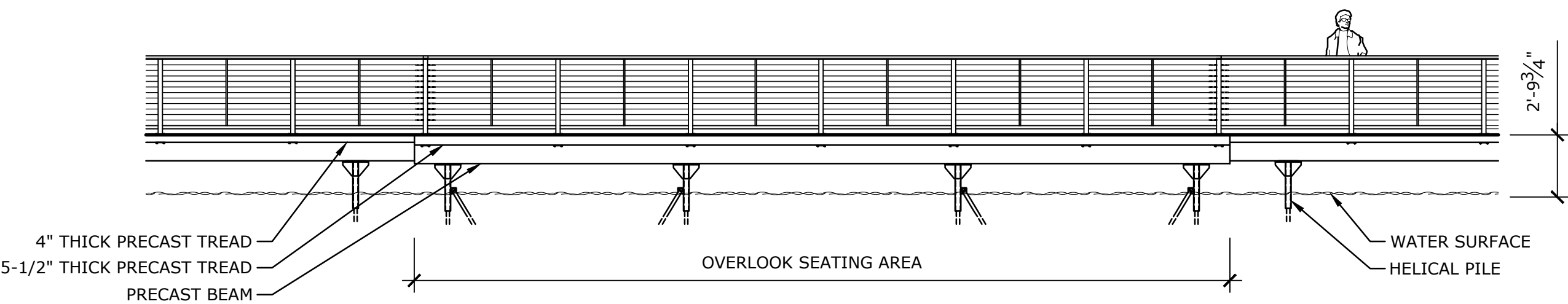
L-4.2



5 PRECAST CONCRETE BOARDWALK

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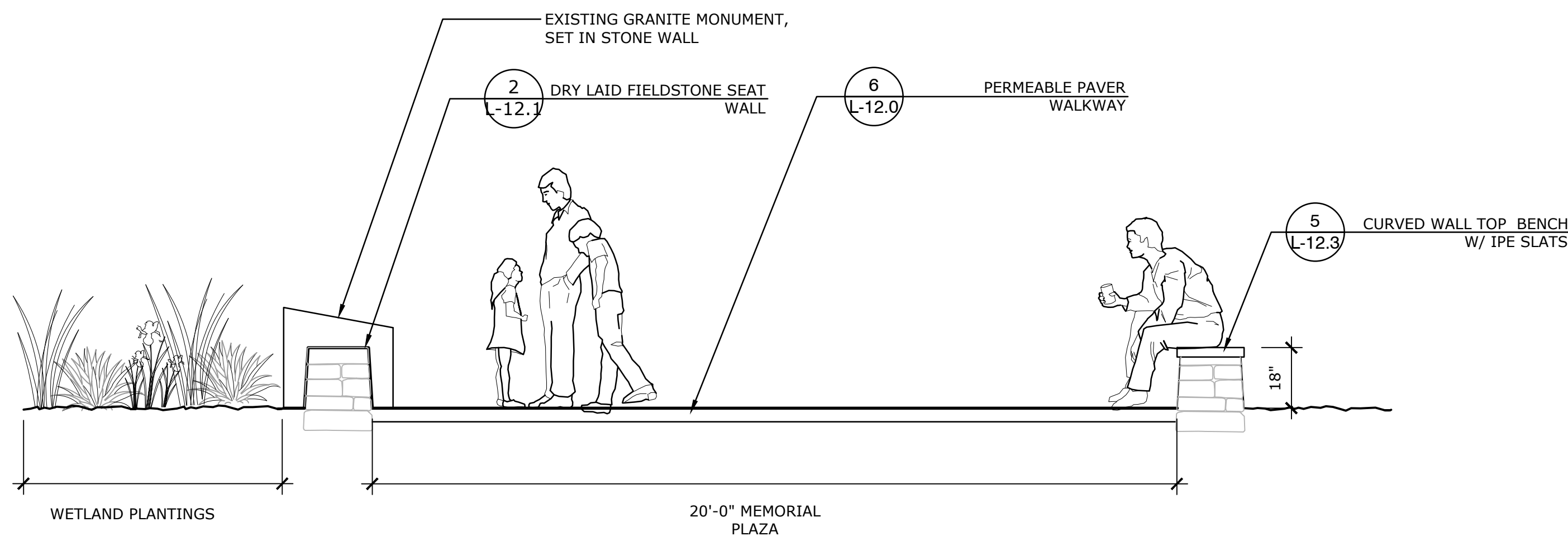
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4 BOARDWALK OVERLOOK ELEVATION

NTS

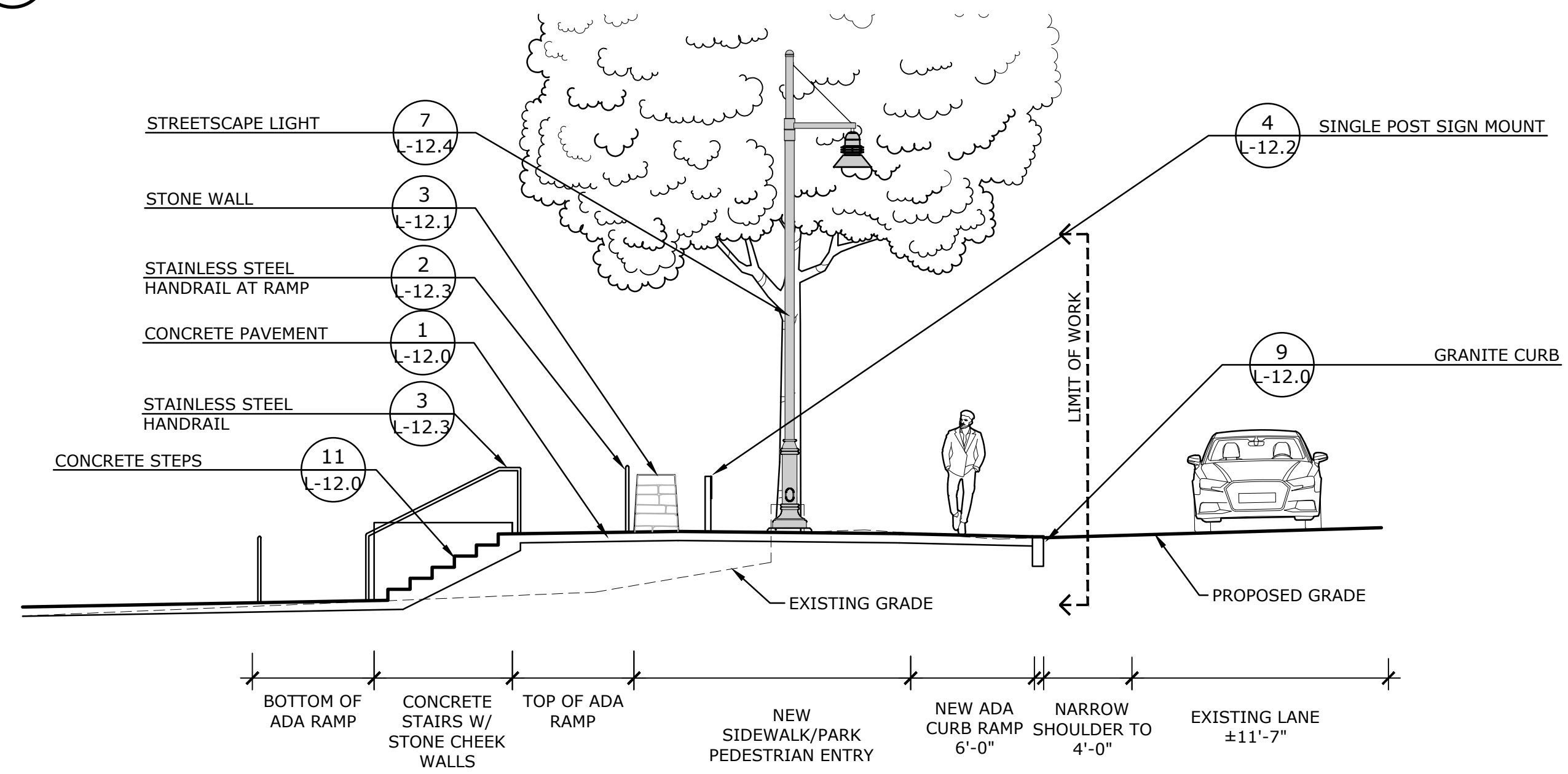
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3 MEMORIAL PLAZA

NTS

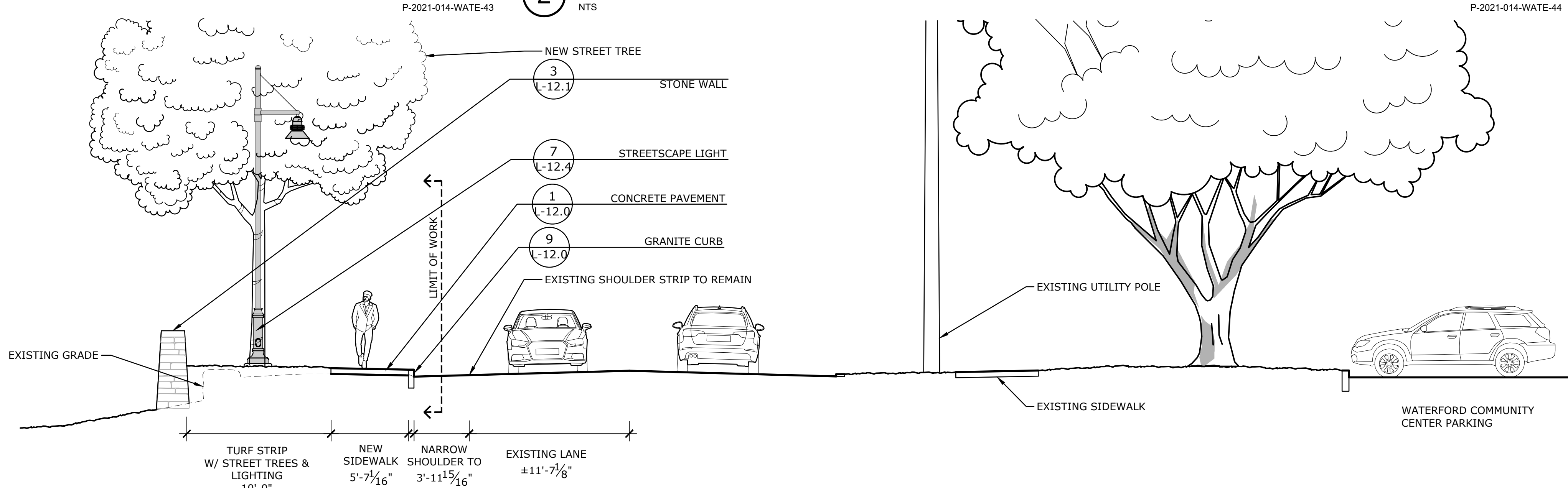
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2 PARK PEDESTRIAN ENTRY

NTS

P-2021-014-WATE-44



1 STREETSCAPE - ROUTE 156 LOOKING EAST

NTS

P-2021-014-WATE-41

WATERFORD
CIVIC TRIANGLE

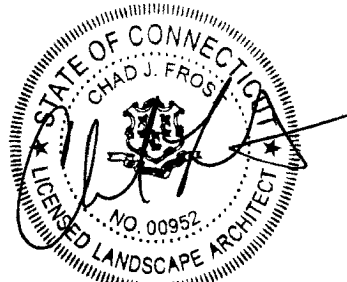
184 Boston Post Road Waterford, CT 06385

LANDSCAPE
**KENT+
FROST**
ARCHITECTURE
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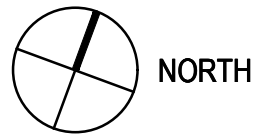
LEGEND:

- 22 — EXISTING MINOR CONTOUR
- 35 — EXISTING MAJOR CONTOUR
- 24 — PROPOSED CONTOUR
- 26.52 PROPOSED SPOT ELEVATION
- 2.0% PROPOSED RUNNING SLOPE
- FLUSH TRANSITION



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1 P&Z Revisions 11/03/2023

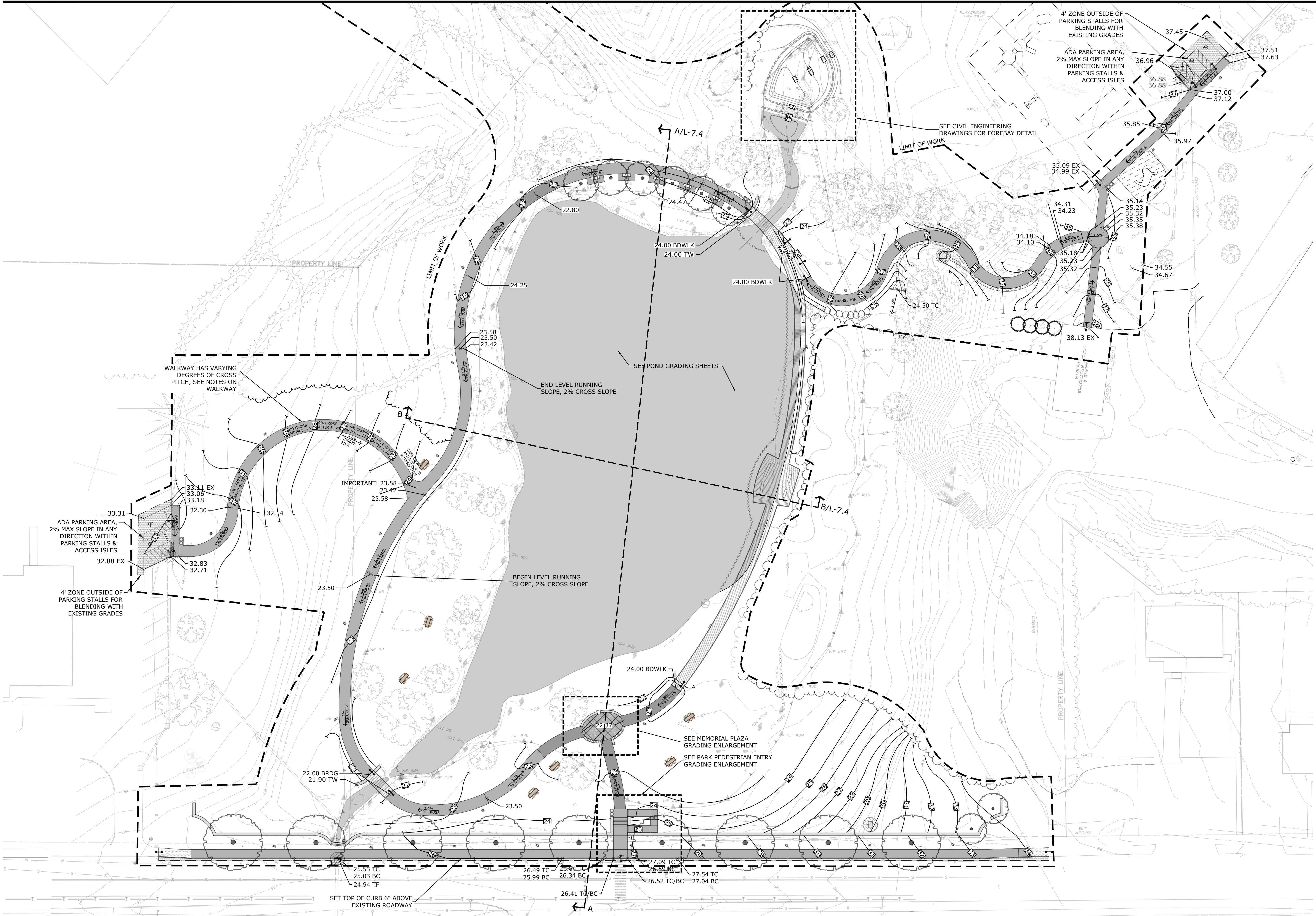


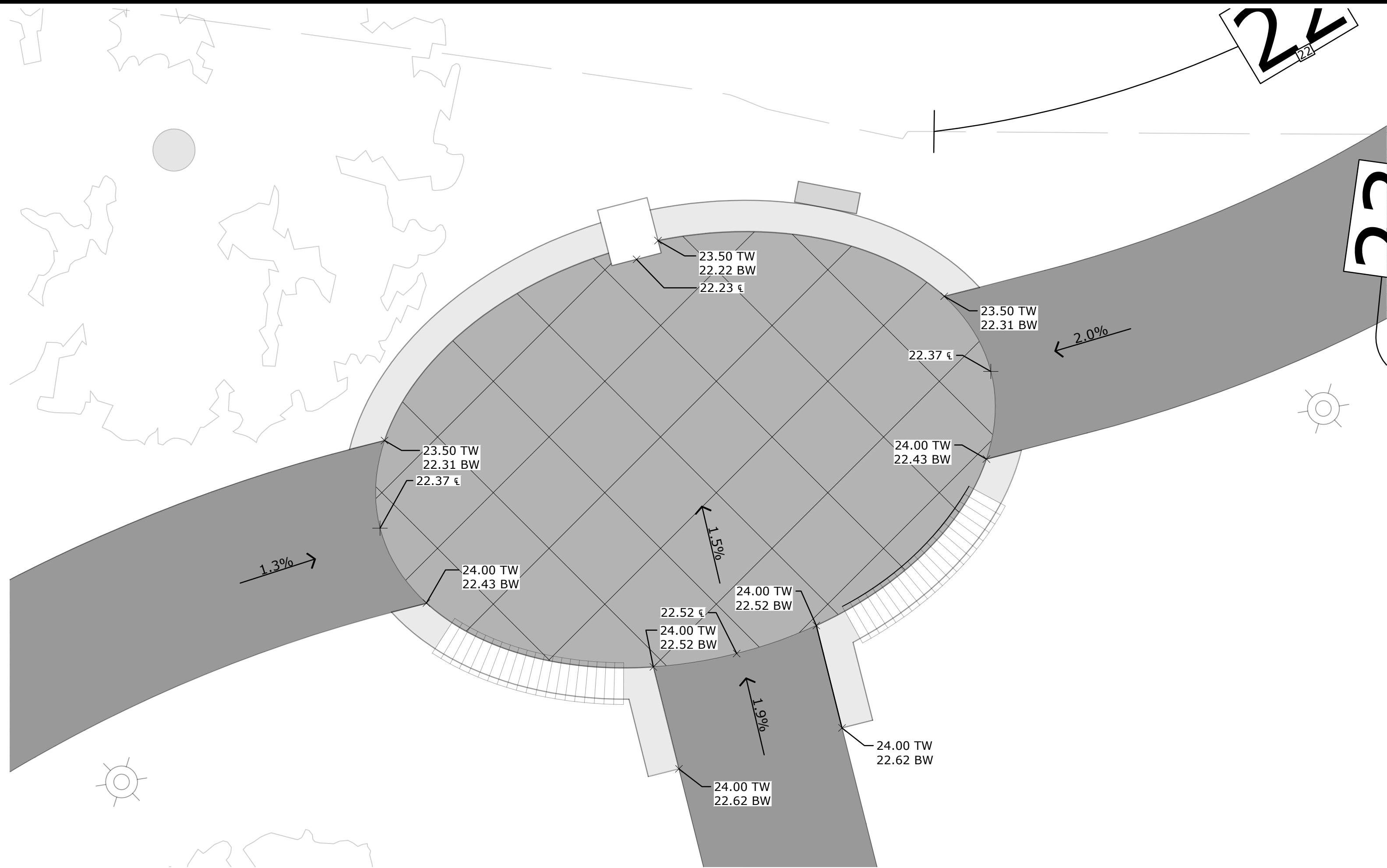
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SITE GRADING

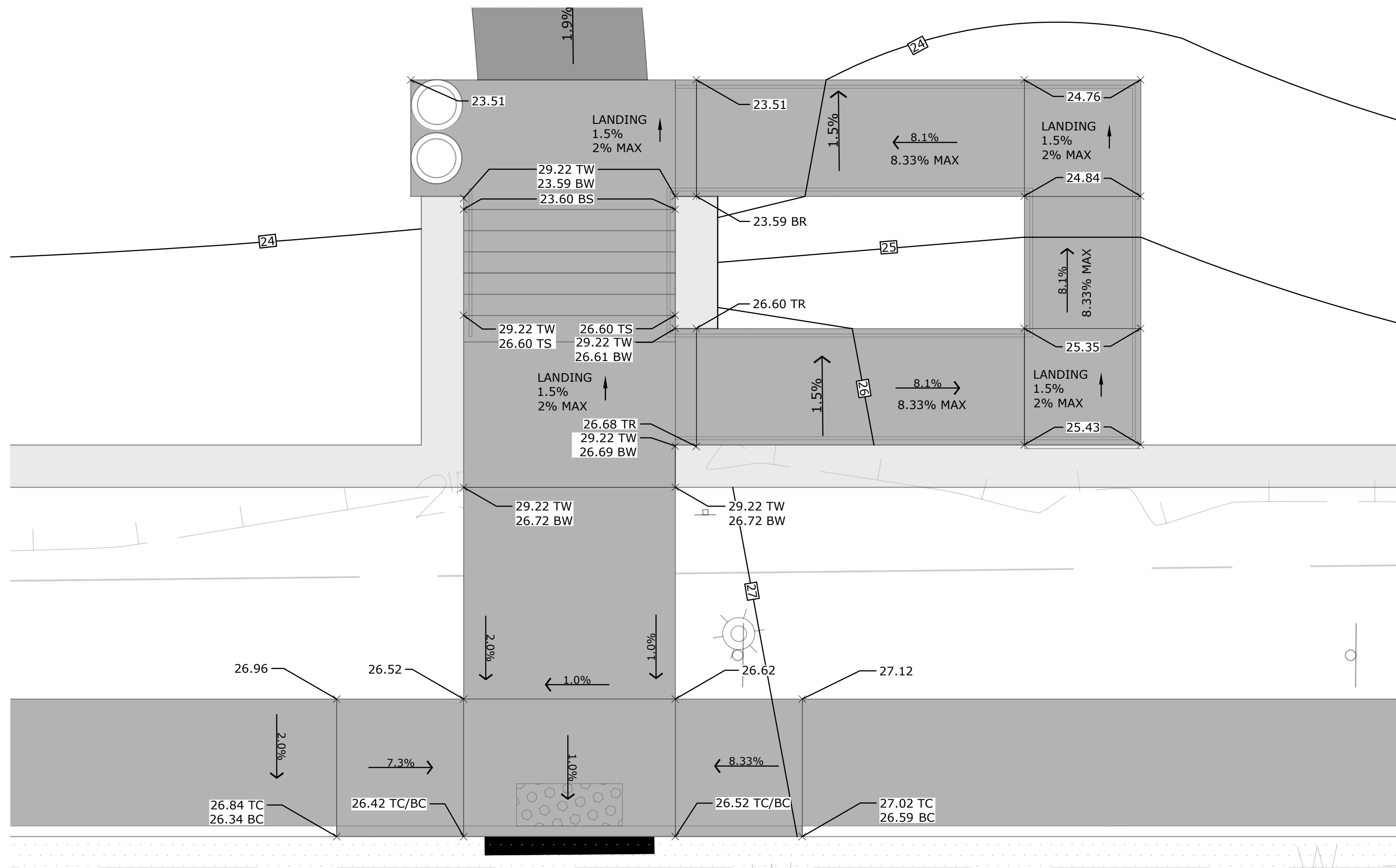
Scale 1" = 30'
Date October 11, 2023
K+F Project No. 2021014
Drawing No.

L-7.0





02 MEMORIAL PLAZA - GRADING ENLARGEMENT



02 PARK PEDESTRIAN ENTRY GRADING ENLARGEMENT

WATERFORD
CIVIC TRIANGLE

184 Boston Post Road Waterford, CT 06385

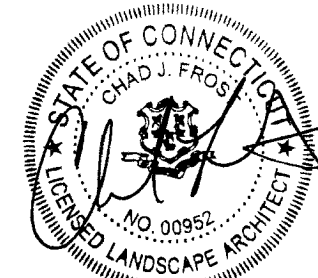
LANDSCAPE
KENT
FROST
ARCHITECTURE

1 HIGH STREET
MYSTIC, CT 06355
860.572.0784
f866.283.3840



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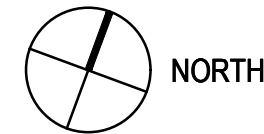
191 NORWICH AVENUE
LEBANON, CT 06249
(860) 367-7264



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Revisions Date

1 P&Z Revisions 11/03/2023



SITE GRADING
ENLARGEMENTS

Scale 1/4" = 1'

Date October 11, 2023

K+F Project No. 2021014

Drawing No.

L-7.1

Luminaire Schedule				
Qty	Label	Watts	Arrangement	Description
9	PL1	71.6	SINGLE	AAL UCM2-LUM-ANG-36L-615-3K7-4W-CL-BLS-SLA17(5)-UNV
14	PL2	31.5	SINGLE	AAL UCM2-LUM-ANG-36L-260-3K7-1-CL-BLS-SLA17-UNV
5	PL3	40.0	SINGLE	AAL UCM2-LUM-ANG-36L-325-3K7-5W-CL-BLS-SLA17-UNV
2	PL4	40.0	SINGLE	AAL UCM2-LUM-ANG-36L-325-3K7-4W-CL-BLS-SLA17-UNV
9	P1	NA	SINGLE	AAL PR5-5R18-250-BC5-BLS
21	P2	NA	SINGLE	AAL PR4-4R14-226-BC5-BLS
786'	LL1	2/FT	MULTI	FEENEY LED RAIL LIGHT-3000K-114LMN/FT

WATERFORD
CIVIC TRIANGLE

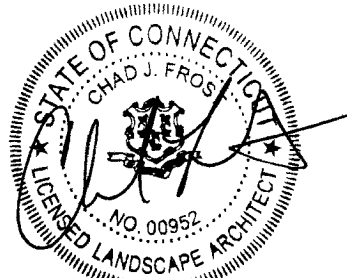
184 Boston Post Road Waterford, CT 06385

LANDSCAPE
KENT+
FROST
ARCHITECTURE

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860.572.0784
f866.283.3840

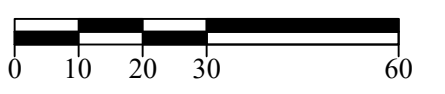
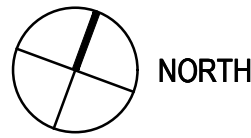


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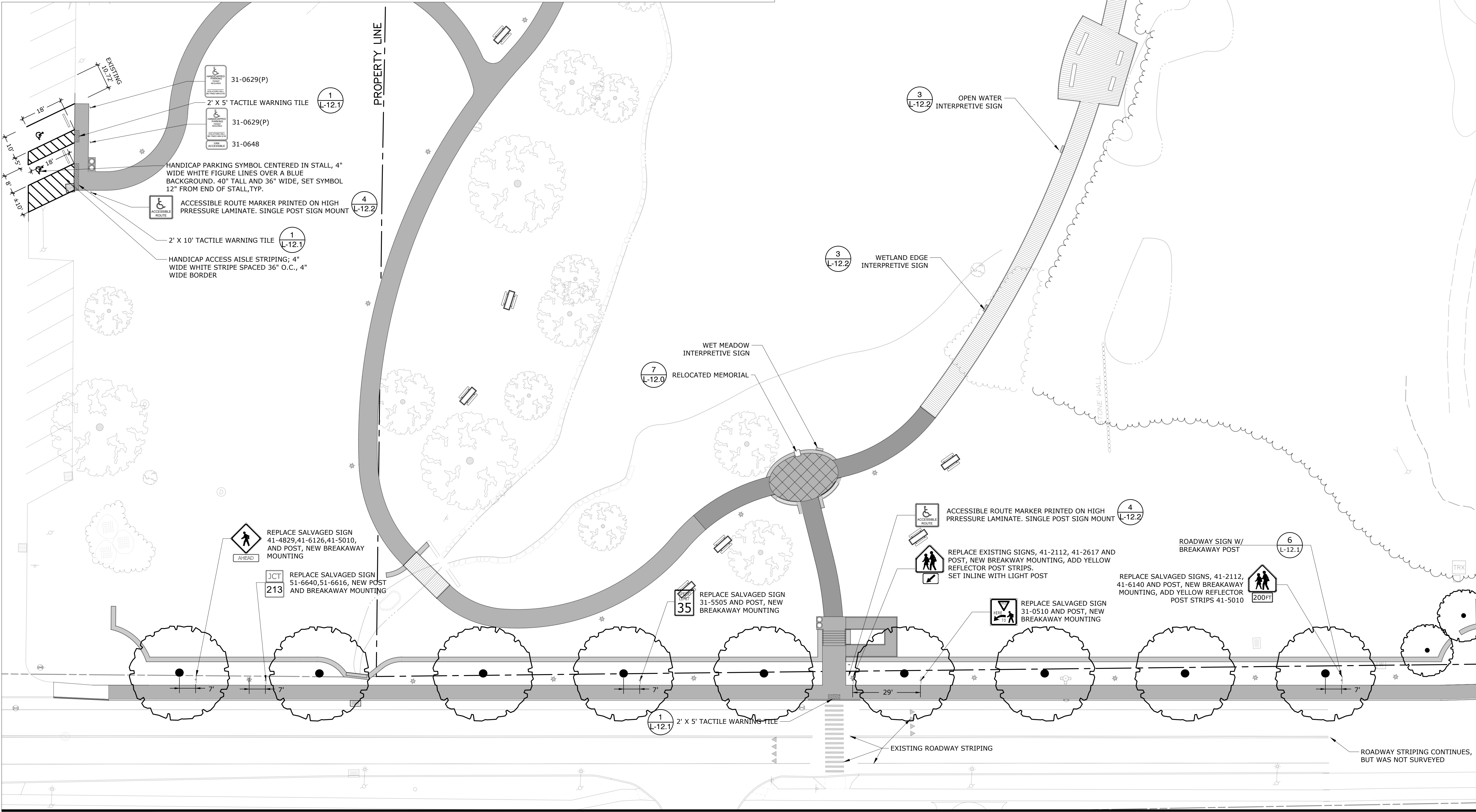
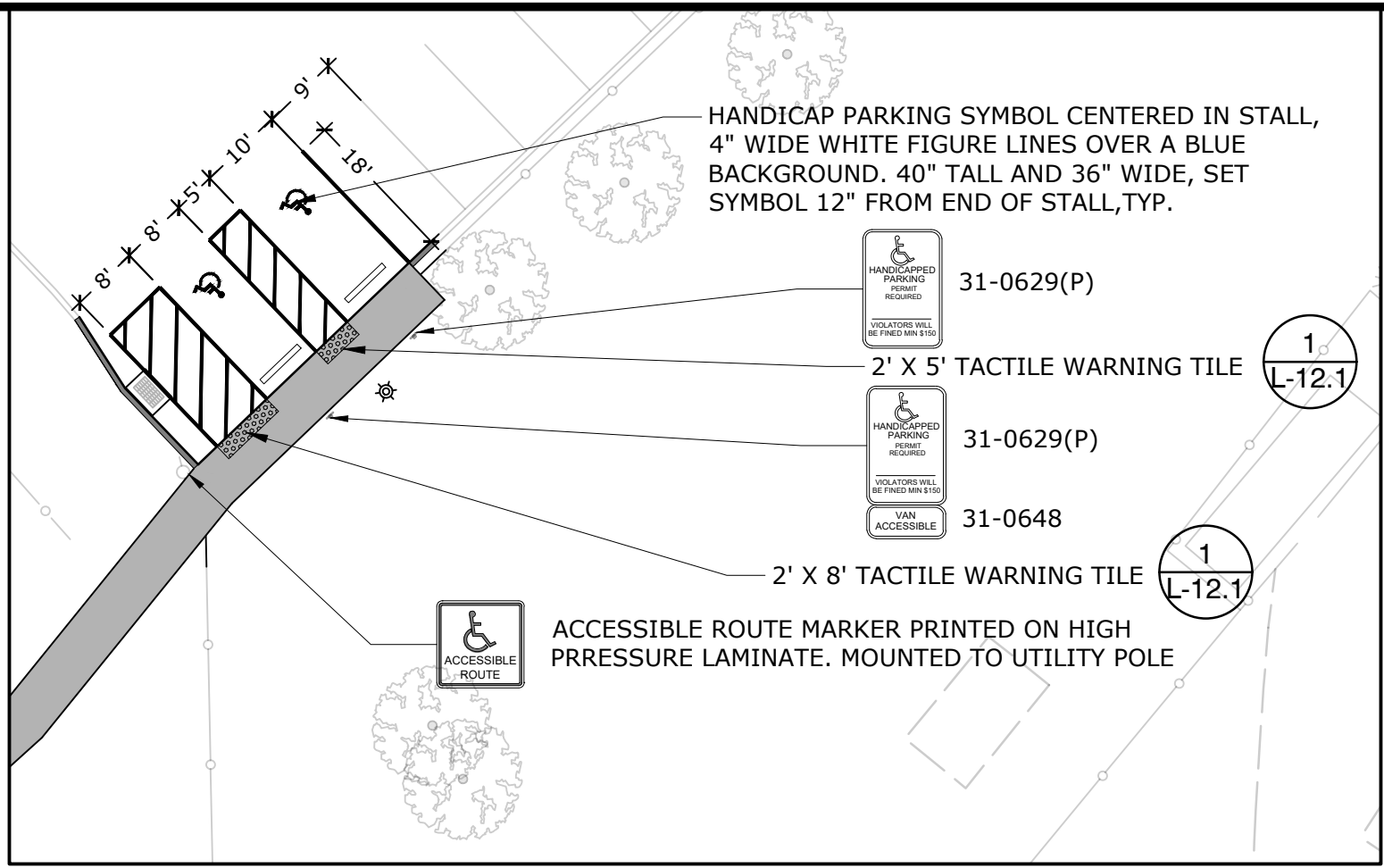
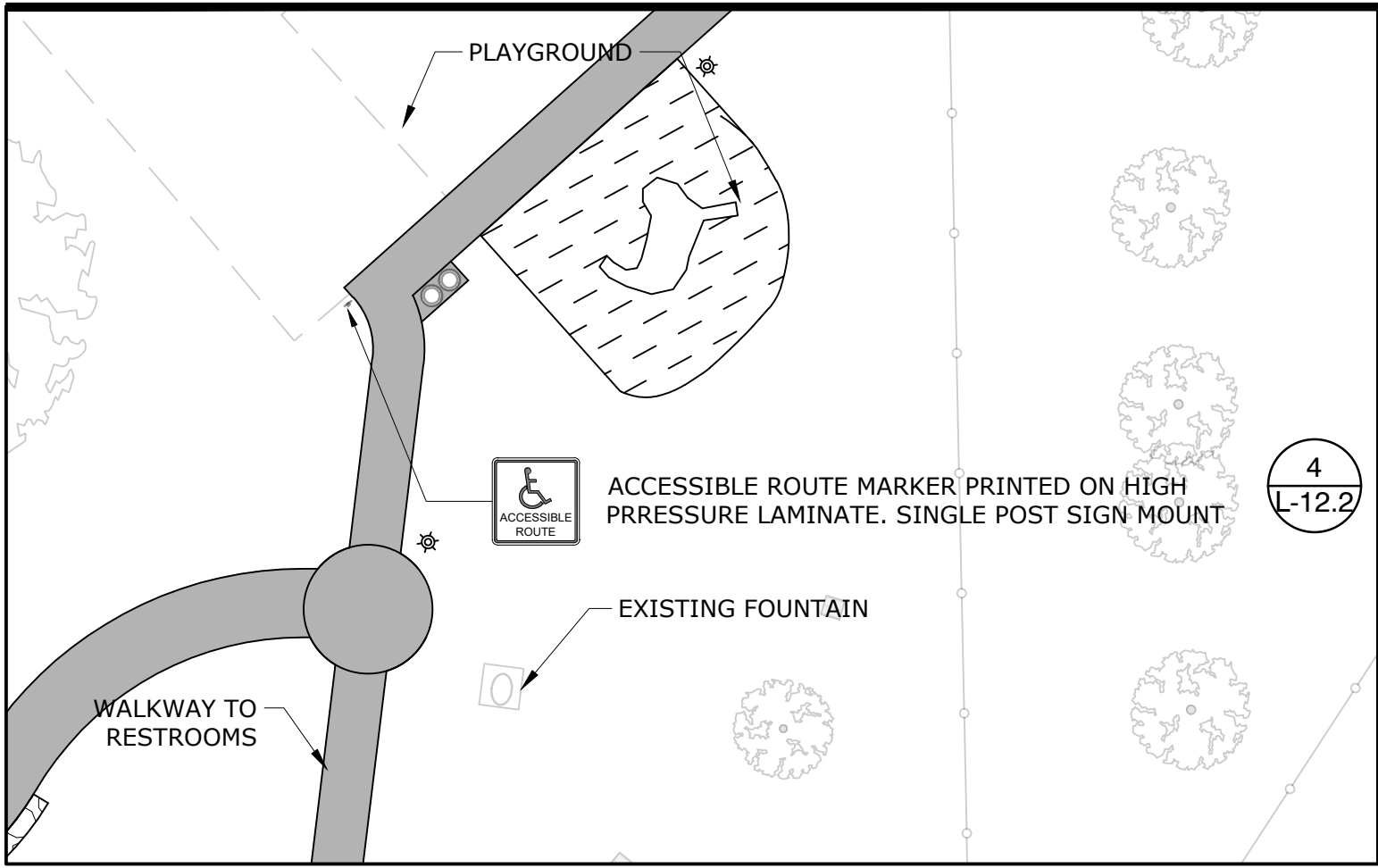


SITE LIGHTING

Scale 1" = 30'
Date October 11, 2023
K+F Project No. 2021014
Drawing No.

L-8.0





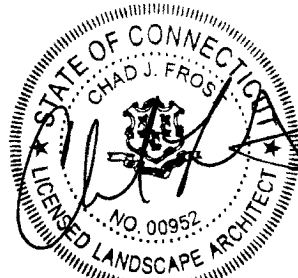
WATERFORD CIVIC TRIANGLE

184 Boston Post Road Waterford, CT 06385

LANDSCAPE
**KENT+
FROST**
ARCHITECTURE
1 HIGH STREET
MYSTIC, CT 06355
860.572.0784
f866.283.3840

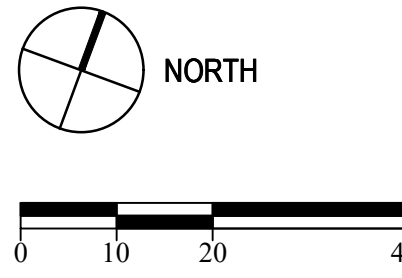
YRC
YANTIC RIVER
CONSULTANTS, LLC
191 NORWICH AVENUE
LEBANON, CT 06249
(860) 367-7264

NOTE:
1. CONNECTICUT DEPARTMENT OF
TRANSPORTATION - TRAFFIC
ENGINEERING SIGNAGE STANDARDS
MUST BE FOLLOWED FOR ALL SIGNS
PLACED WITHIN THE RIGHT OF WAY.
2. CONTRACTOR SHALL VERIFY THAT ALL
ROADWAY SIGNAGE CAN BE MOUNTED
7" FROM FINISH GRADE PER DOT
STANDARDS, IF NOT, NEW CHANNEL
POSTS SHALL BE PROVIDED.



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Revisions	Date
1 P&Z Revisions	11/03/2023



SIGNAGE AND WAYFINDING PLAN

Scale	1" = 20'
Date	October 11, 2023
K+F Project No.	2021014
Drawing No.	

L-10.0

PLANT SCHEDULE

TREES	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE
ACE RBR	3	Acer rubrum / Red Maple	B & B	3-3.5"	
COR CLO	8	Cornus florida 'Cloud Nine' / Cloud Nine Dogwood	B & B	1.5"-2" Cal	
CRA PHA	7	Crataegus phaenopyrum / Washington Hawthorn	B & B	1.5"-2" Cal	
QUE ALB	3	Quercus alba / White Oak	B & B	3-3.5"	
ULM LTO	3	Ulmus japonica x wilsoniana 'Morton' TM / Accolade Elm	B & B	3-3.5"	
EVERGREEN TREES	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE
THU IBI	4	Thuja x 'Green Giant' / Green Giant Arborvitae	B & B		6-7" H
MOISTURE TOLERANT MEADOW	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	
ASC INC	122	Asclepias incarnata / Swamp Milkweed	Plug		24" o.c.
ASC SYR	85	Asclepias syriaca / Common Milkweed	Plug		24" o.c.
CAL BLU	162	Calamagrostis canadensis / Bluejoint Grass	Plug		24" o.c.
CAR LUR	200	Carex lurida / Lurid Sedge	Plug		24" o.c.
ECH PUR	135	Echinacea purpurea / Coneflower	Plug		24" o.c.
EUP SAV	141	Eupatorium purpureum / Joe Pye Weed	Plug		24" o.c.
IRI VER	232	Iris versicolor / Blue Flag	Plug		24" o.c.
LOB CAR	94	Lobelia cardinalis / Cardinal Flower	Plug		24" o.c.
LOB SIP	232	Lobelia siphilitica / Great Lobelia	Plug		24" o.c.
LUP PER	104	Lupinus perennis / Wild Lupine	Plug		24" o.c.
PAN VIR	41	Panicum virgatum / Switch Grass	Plug		24" o.c.
RUD HIR	143	Rudbeckia hirta / Black-eyed Susan	Plug		24" o.c.
SIL REG	48	Silene regia / Royal Catchfly	Plug		24" o.c.
SOL SEM	143	Solidago sempervirens / Seaside Goldenrod	Plug		24" o.c.
SYM NVB	74	Symphyotrichum novi-belgii / New York Aster	Plug		24" o.c.
SHRUB AREA	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	
ARO GHG	24	Aronia melanocarpa 'UCONNAM012' / Ground Hug® Black Chokeberry	1 gal		24" o.c.

- NOTE:
- GOOSE PROTECTION FENCING IS REQUIRED FOR ALL AREAS PLANTED WITH PLUGS. EXTEND 10' INTO THE POND ~ 24" DEPTH
 - THE WETLAND ENHANCEMENT PLANTINGS SHALL BE SUPERVISED BY A WETLAND SCIENTIST TO VERIFY SPECIES SELECTION, PLANTING LOCATIONS AND SUITABILITY OF HYDROLOGY.

LEGEND

	PROPERTY BNDY		PLANTING - OPEN WATER
	EXISTING CONTOUR		PLANTING - DEEP MARSH
	PROPOSED CONTOUR		PLANTING - SHALLOW MARSH
	WETLANDS - ACOE		PLANTING - MARGINAL
	WETLANDS - STATE		PLANTING - MOISTURE LOVING
	TREE LINE		PLANTING - SHRUBS AND GRASSES
	SHRUB LINE		EXISTING UNDERSTORY VEGETATION
	EDGE OF WATER		LAWN
	RETAINED POND EDGE		

PLANT LIST

Marginal Planting

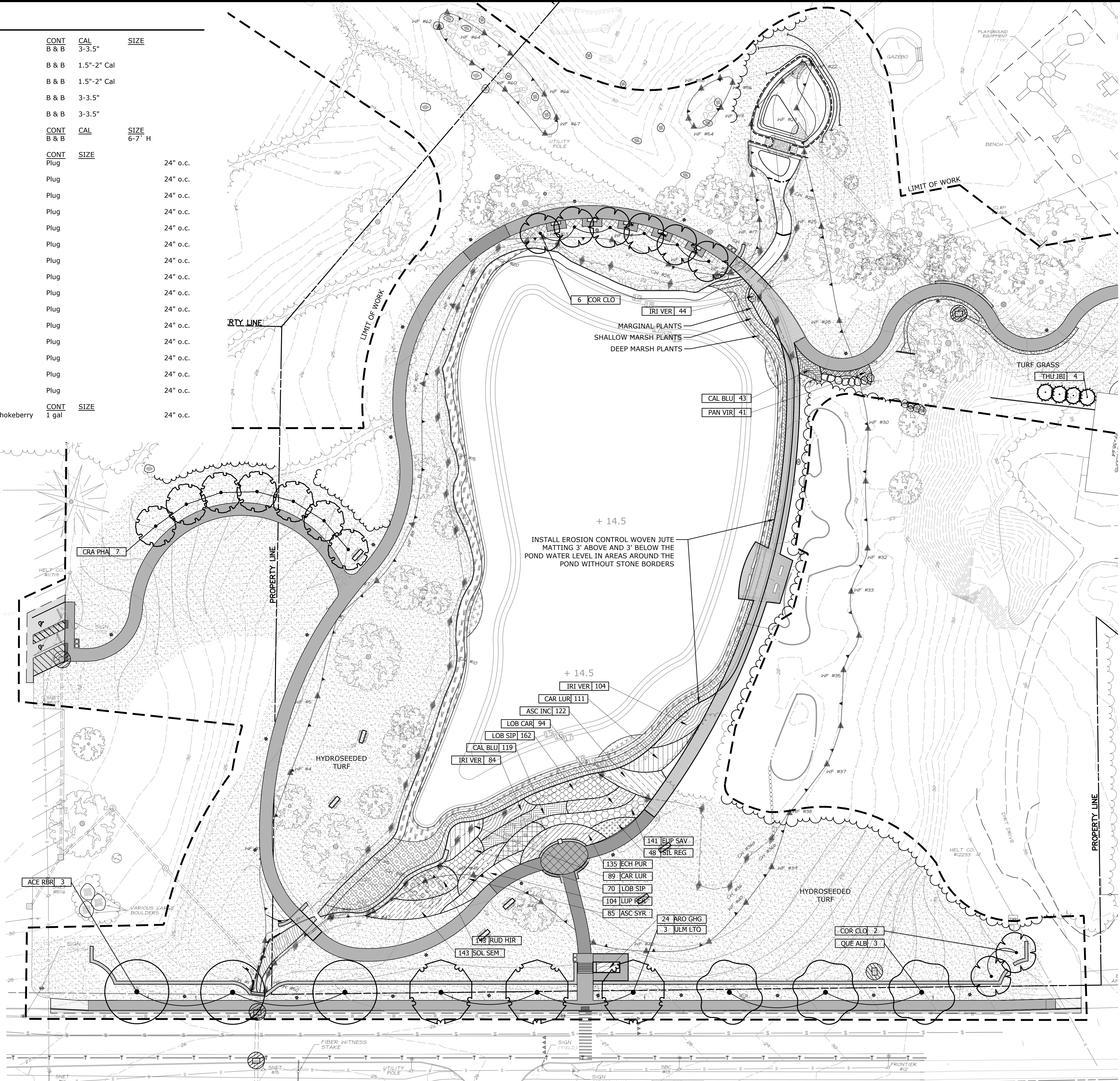
Acorus calamus, Sweet Flag
Calamagrostis canadensis, Bluejoint Reed Grass
Caltha palustris, Marsh Marigold
Carex stricta, Tussock Sedge
Iris pseudacorus, Flag Iris
Juncus effusus, Soft Rush
Sagittaria latifolia, Lance-Leafed Arrowhead

Shallow Marsh

Dulichium arundinaceum, Threeway Sedge
Eleocharis palustris, Great Spike Rush
Pontederia cordata, Pickerel Weed
Schoenoplectus tabernaemontani, Softstem Bulrush

Deep Marsh

Pontederia cordata, Pickerel Weed
Schoenoplectus acutus, Hardstem Bulrush



WATERFORD CIVIC TRIANGLE

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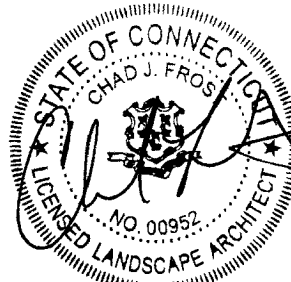
LANDSCAPE KENT + FROST ARCHITECTURE

1 HIGH STREET
MYSTIC, CT 06355
860.572.0784
f866.283.3840



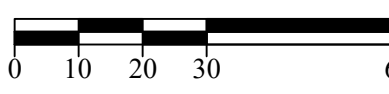
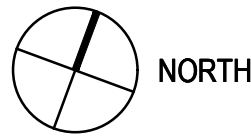
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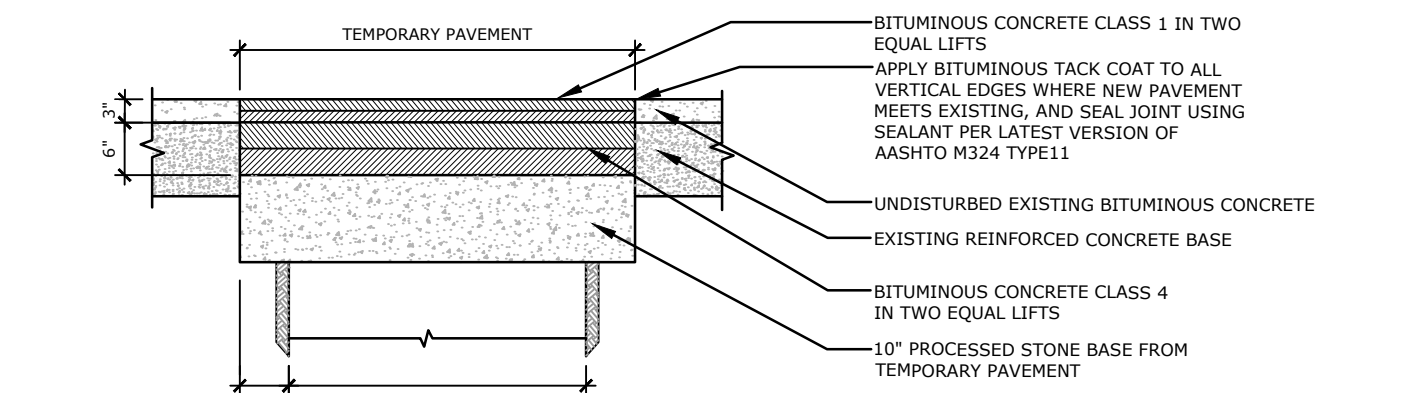
Revisions	Date
1 P&Z Revisions	11/03/2023



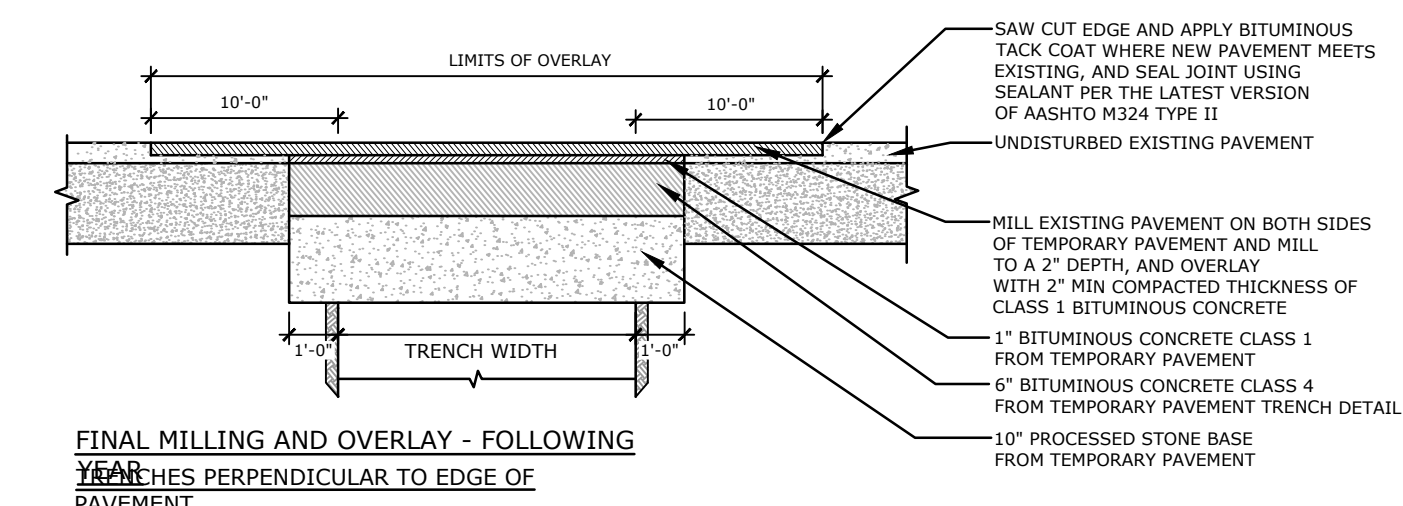
SITE PLANTING

Scale	1" = 30'
Date	October 11, 2023
K+F Project No.	2021014
Drawing No.	

L-11.0



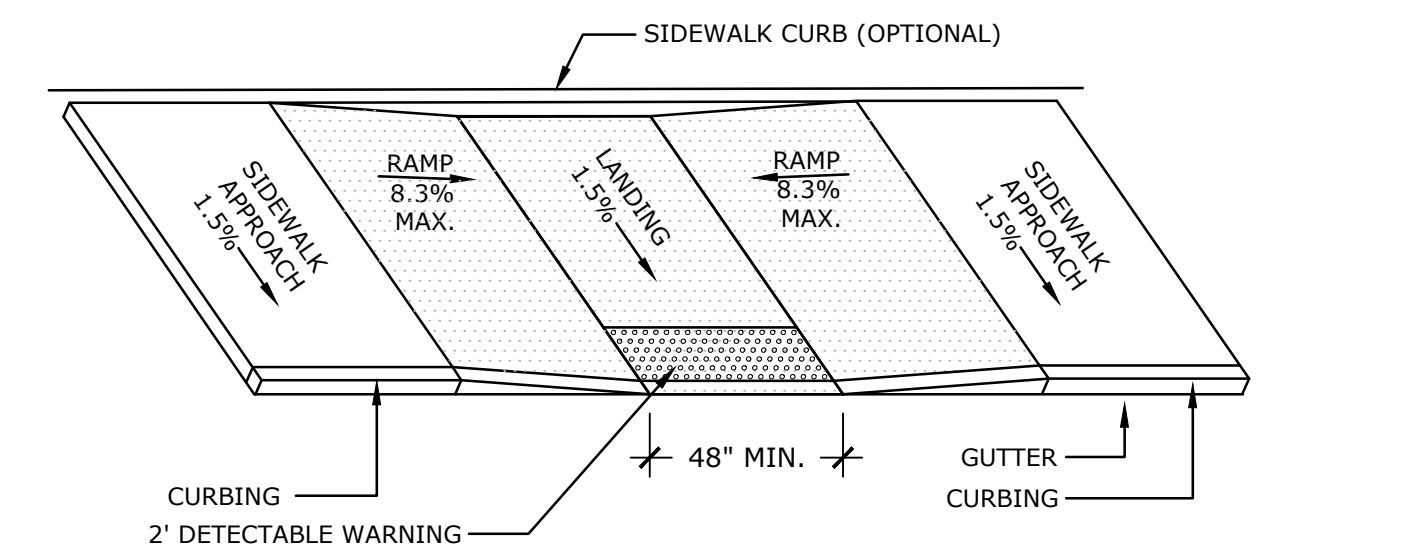
TEMPORARY PAVEMENT TRENCH DETAIL
TRENCHES PERPENDICULAR TO EDGE OF PAVEMENT



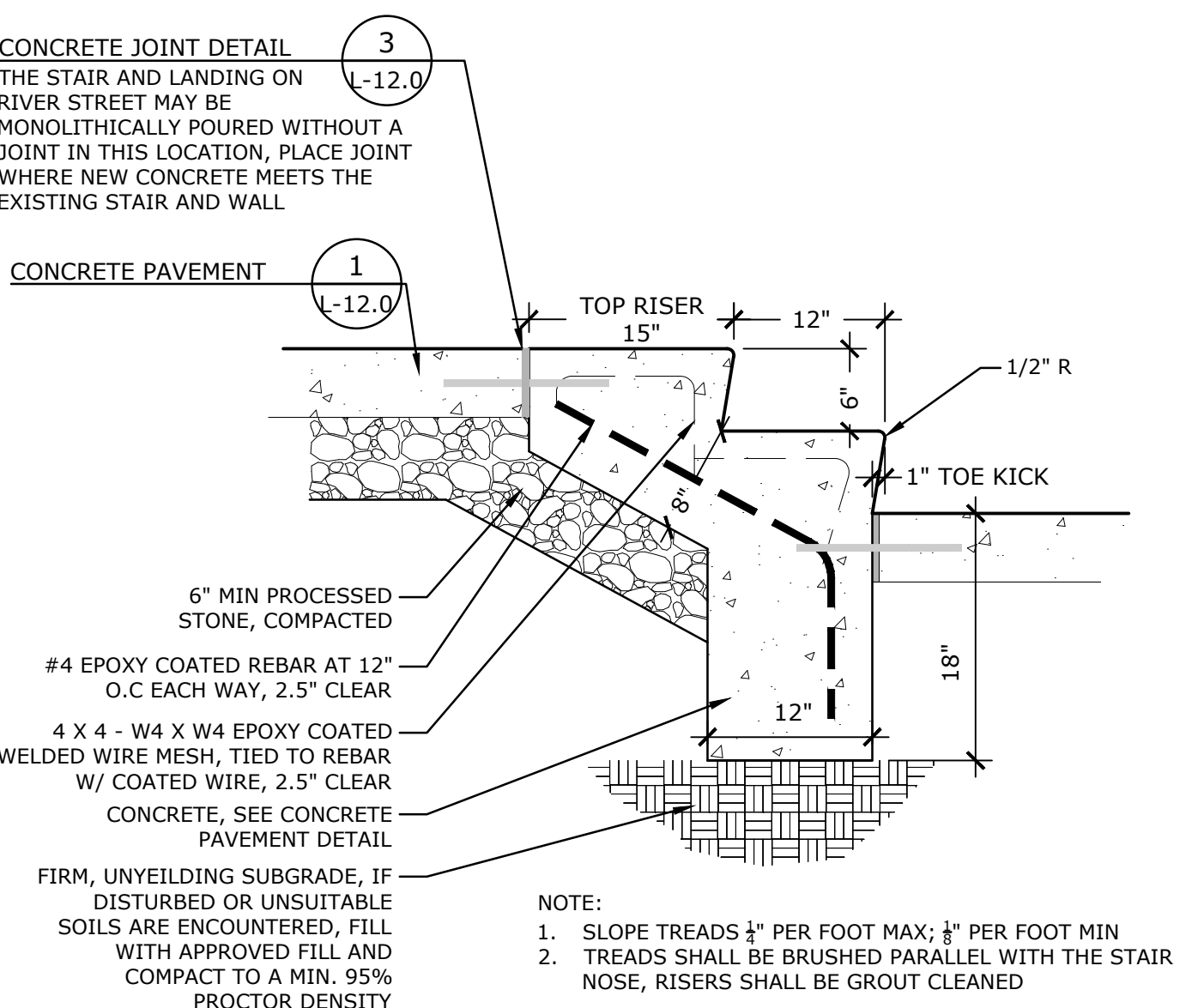
FINAL MILLING AND OVERLAY - FOLLOWING TRENCHES PERPENDICULAR TO EDGE OF PAVEMENT

GENERAL NOTES:
TRENCH DETAILS OBTAINED FROM CTDOT

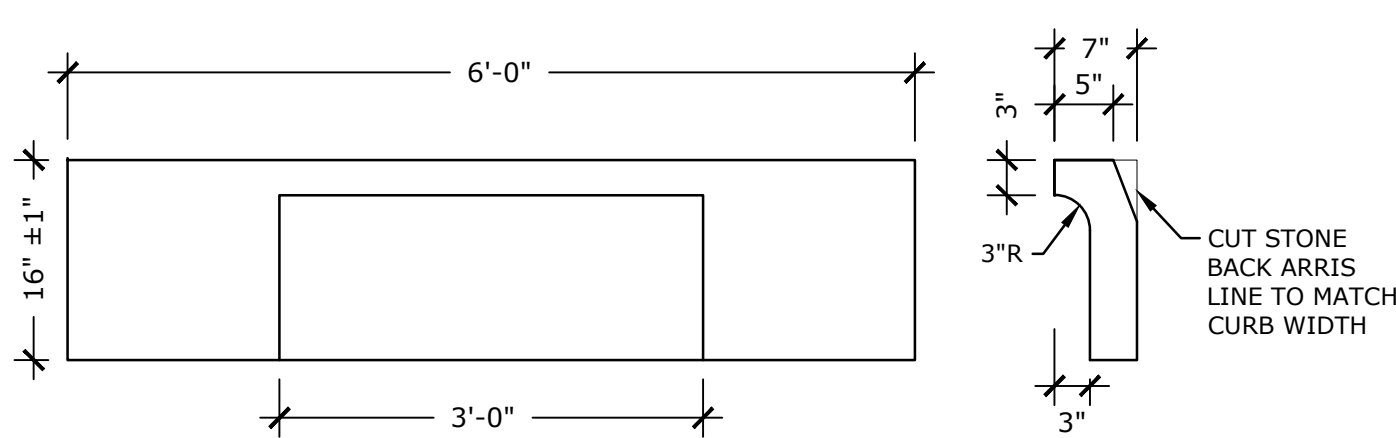
13 TRENCH PAVING DETAILS
NTS P-2021-014-WATE-16



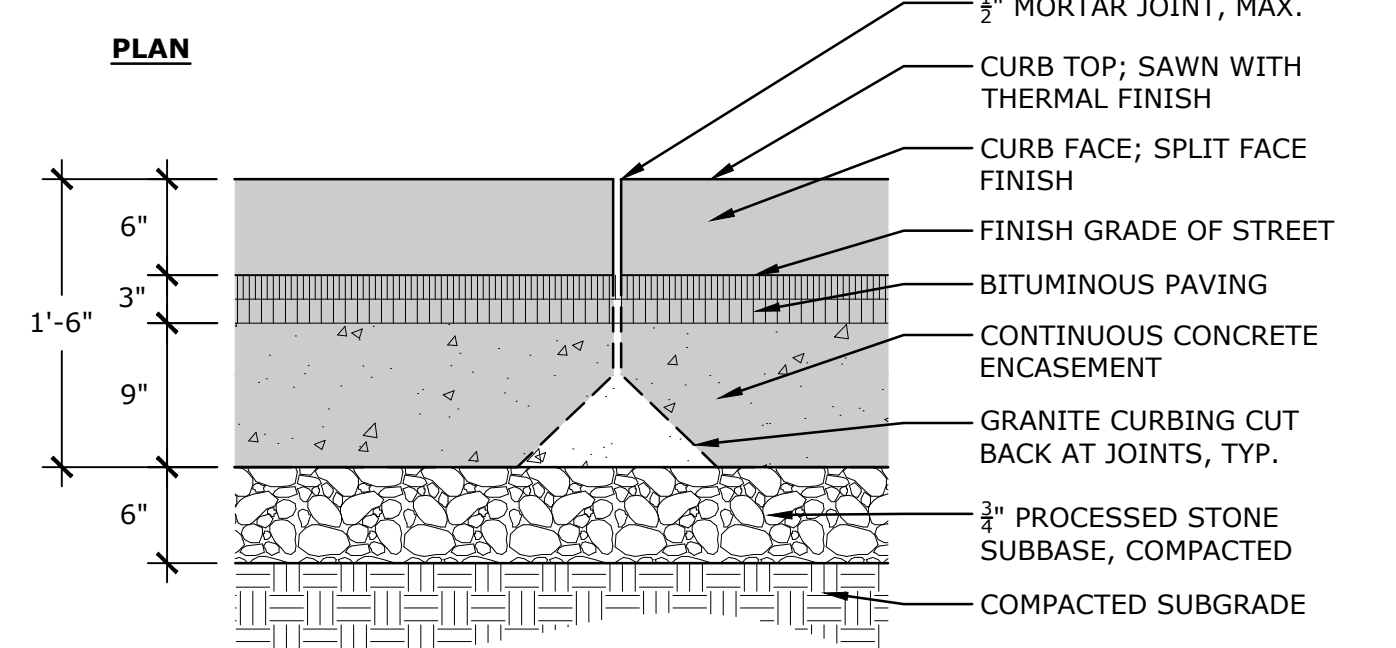
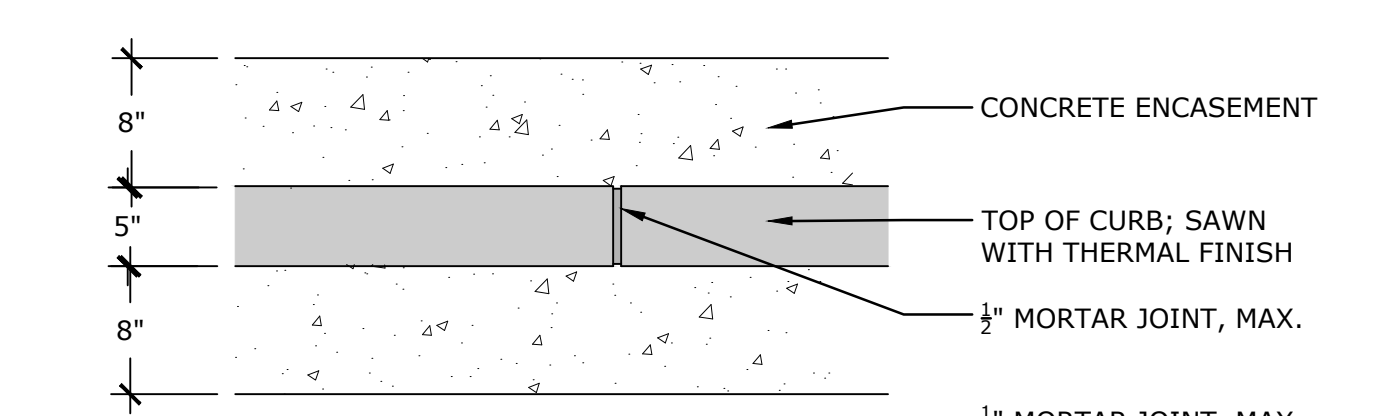
12 PARALLEL SIDEWALK RAMP (TYPE 1)
NTS P-2021-014-WATE-60



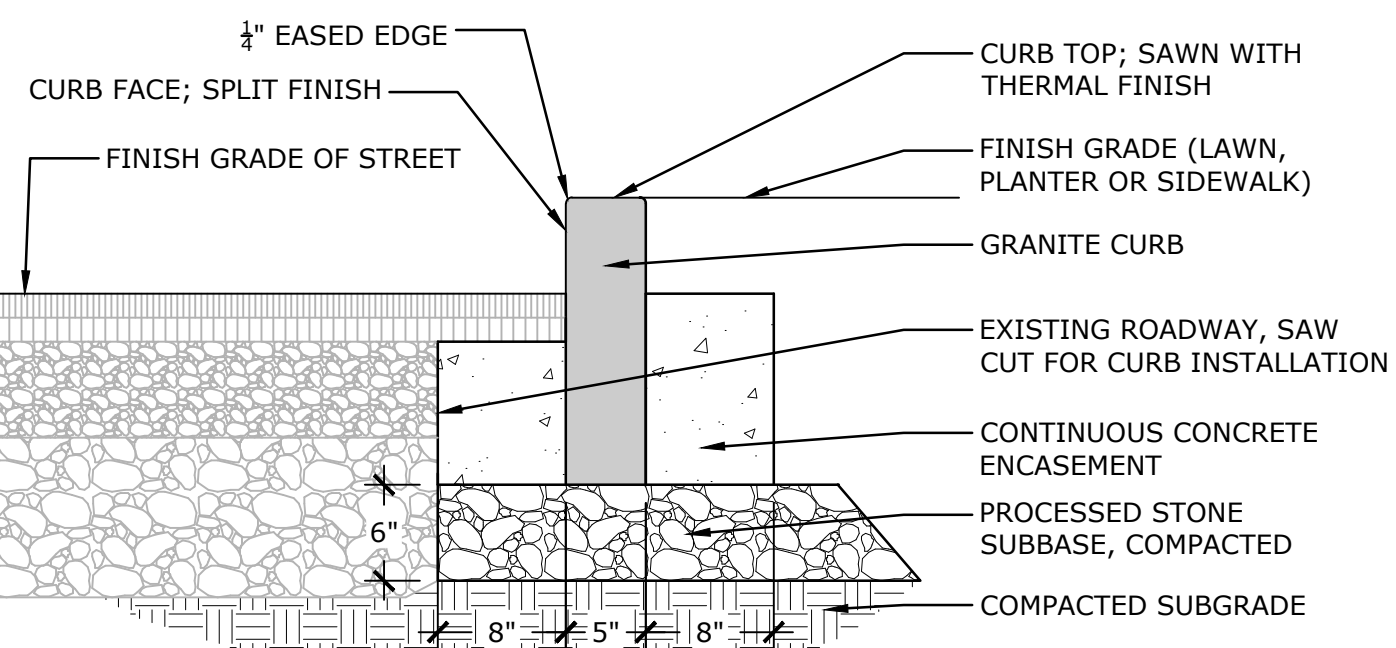
11 CONCRETE STEPS
NTS P-2021-014-WATE-91



10 GRANITE INLET CURB
NTS P-2021-014-WATE-102

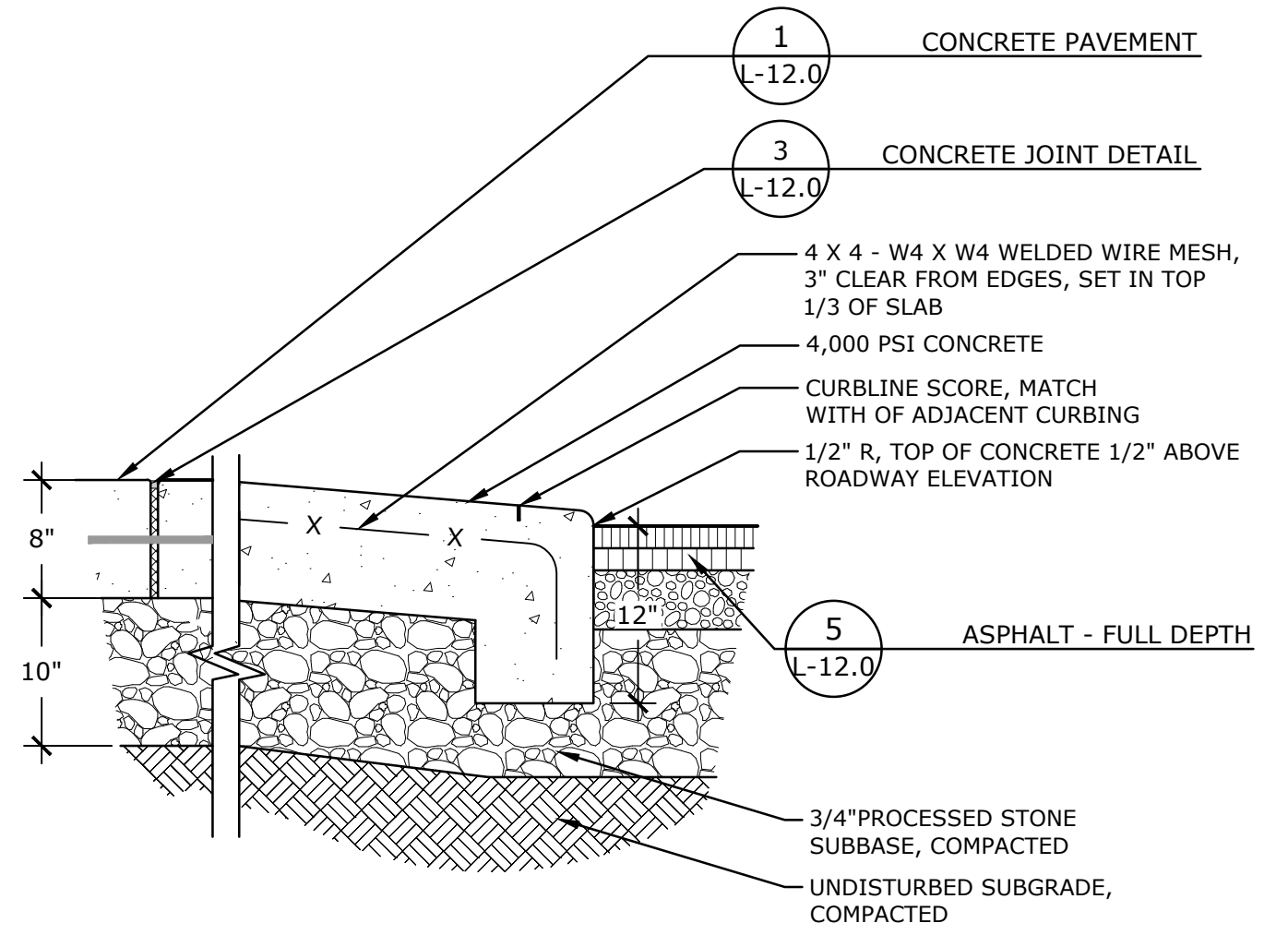


ELEVATION



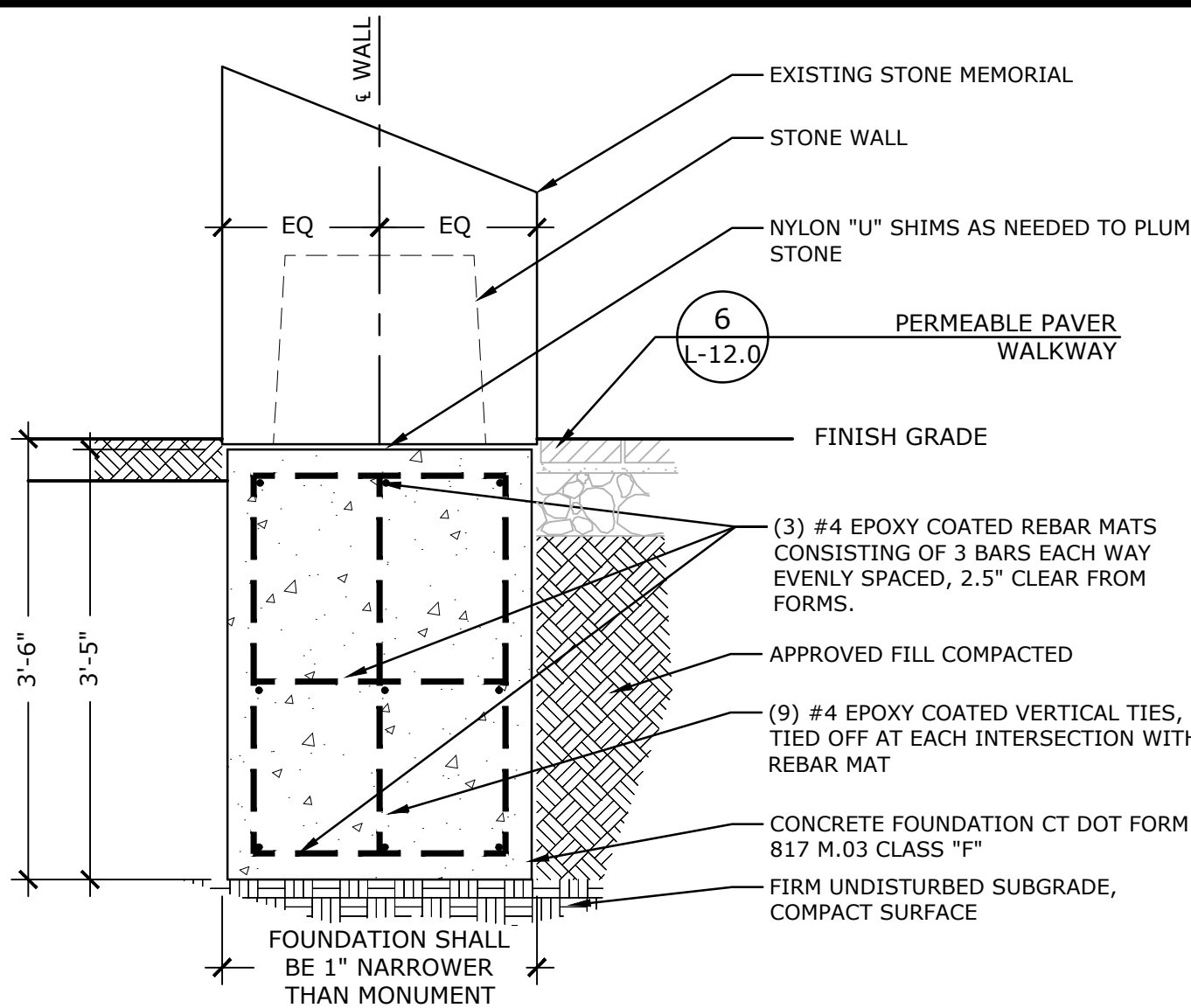
SECTION

9 GRANITE CURB
NTS P-2021-014-WATE-51

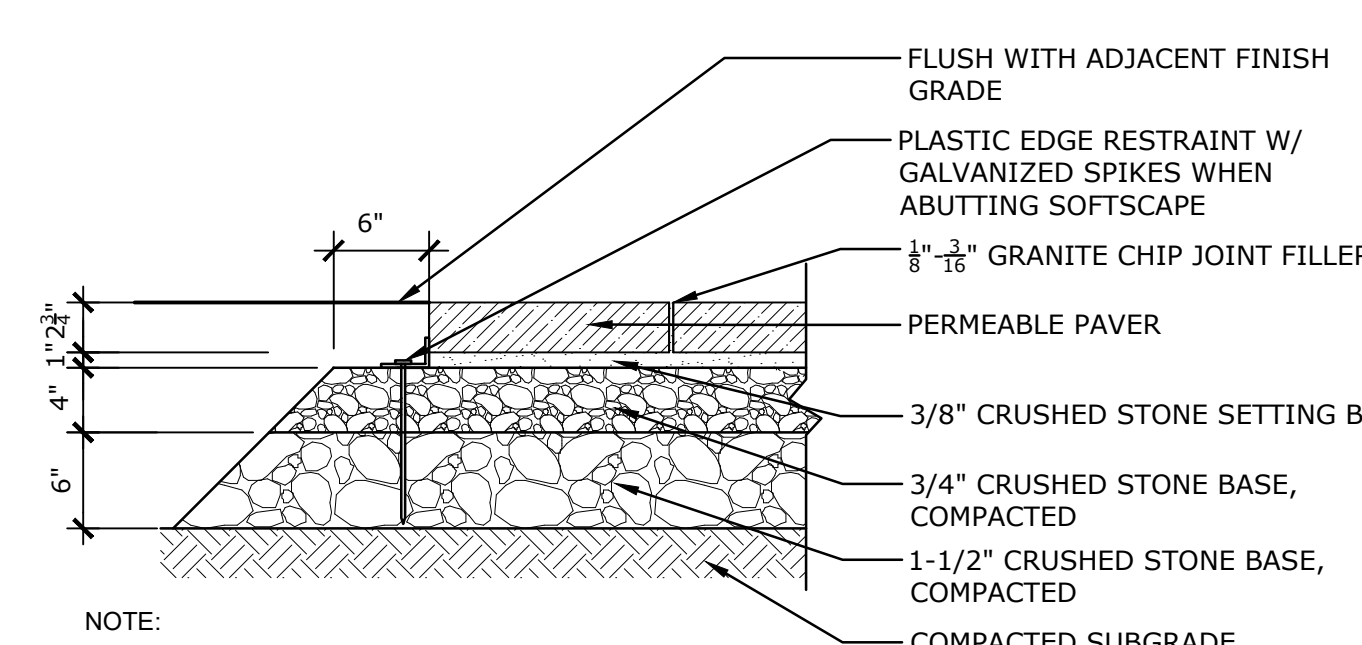


NOTE:
1. SEE GRADING PLAN FOR CURB RAMP SLOPES.
2. PROTECT CONCRETE WHILE LAYING AND FINISHING ASPHALT. CHIPPED EDGES OF CONCRETE WILL BE REJECTED AND MUST BE REPLACED.
3. SEE EXPANSION AND CONTROL JOINT PLAN FOR JOINT LOCATIONS.

8 CONCRETE CURB RAMP
NTS P-2021-014-WATE-86

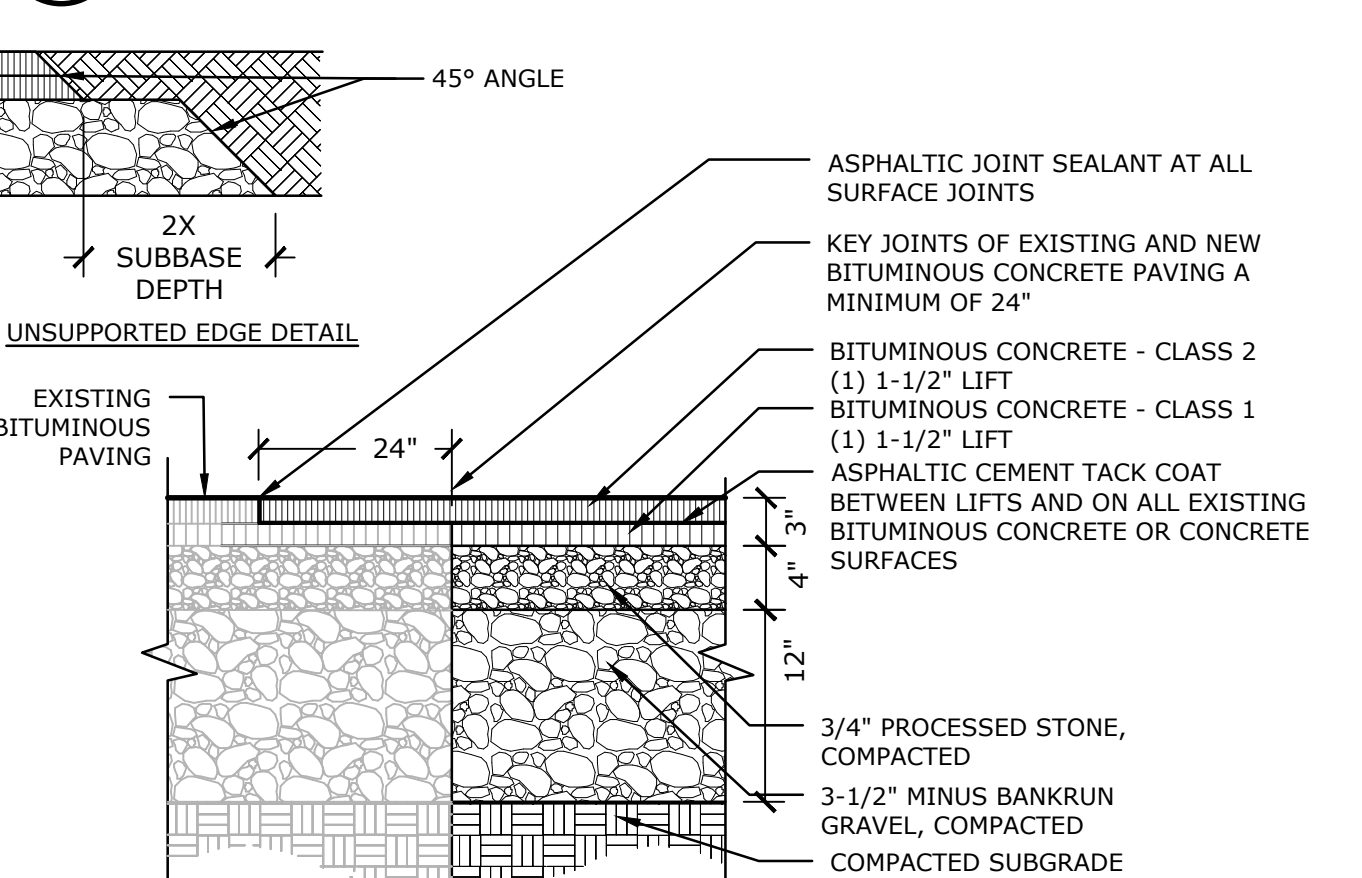


7 MEMORIAL FOUNDATION
NTS P-2021-014-WATE-59



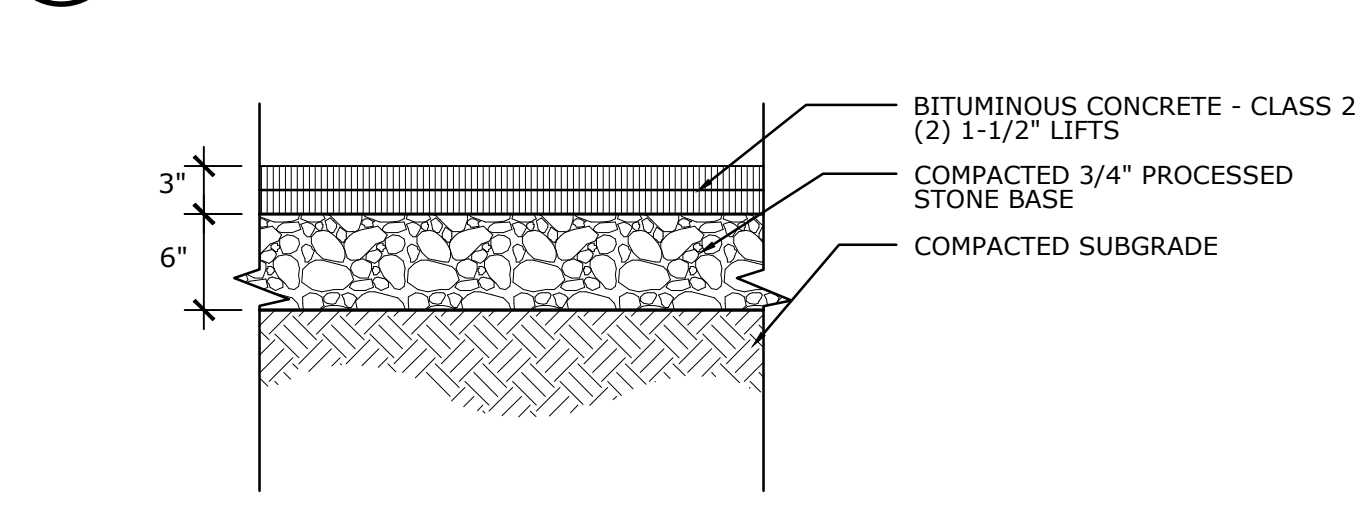
NOTE:
1. COMPACT SETTING BEDS & PAVER AS PER MANUFACTURER'S SPECIFICATIONS.

6 PERMEABLE PAVER WALKWAY
NTS P-2021-014-WATE-46

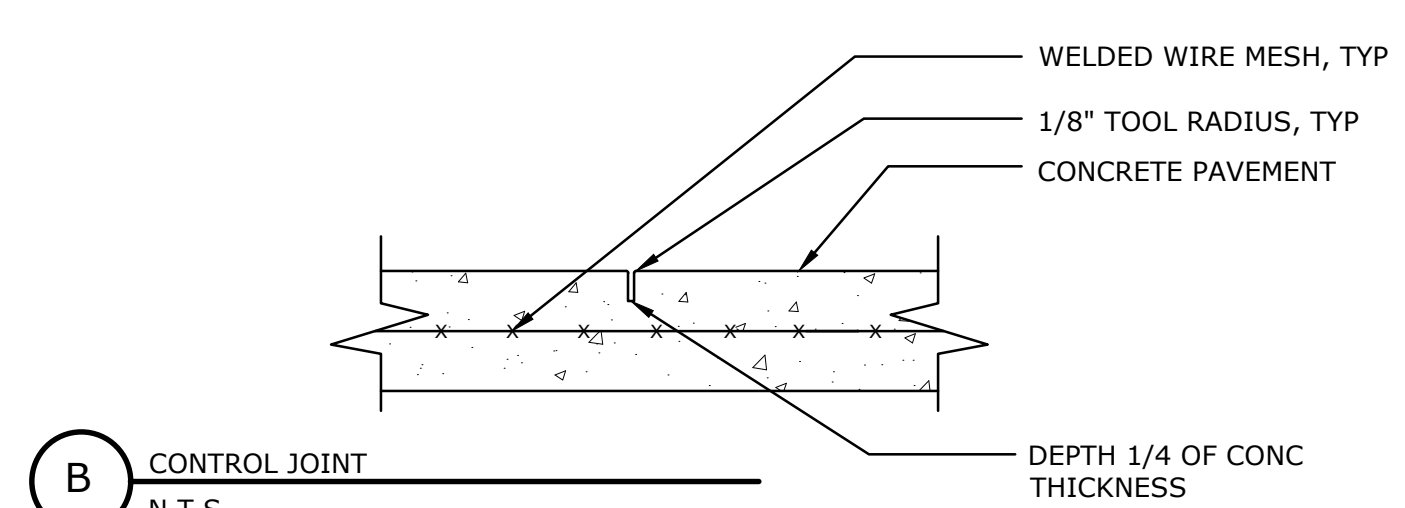
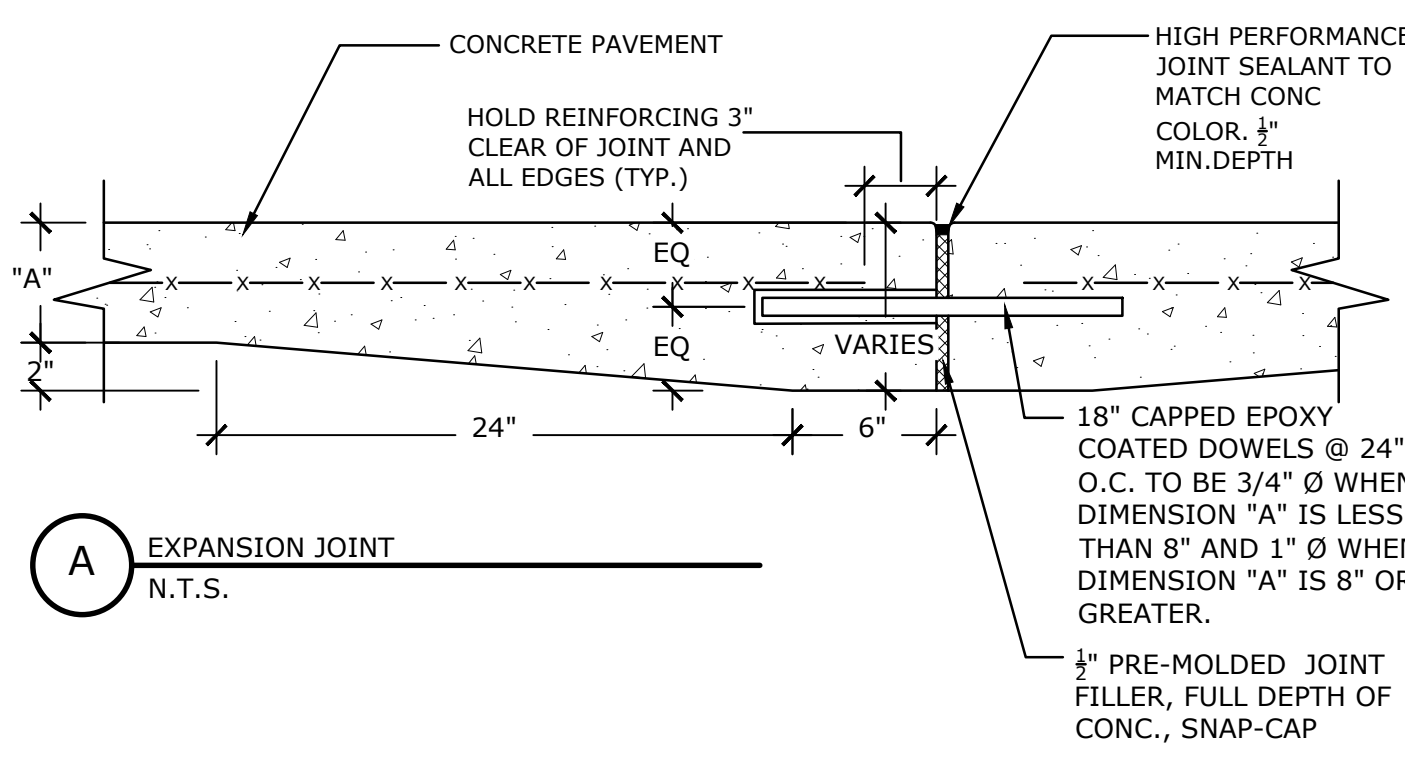


NOTE:
1. APPLY ASPHALTIC CEMENT TACK COAT TO ALL SURFACES AND BETWEEN ASPHALT LIFTS. USE CAUTION WHEN APPLYING TACK COAT, DO NOT APPLY TO SURFACES ABOVE FINISH GRADE.
2. COMPACT STONE IN 6\"/>

5 ASPHALT - FULL DEPTH
NTS P-2021-014-WATE-18

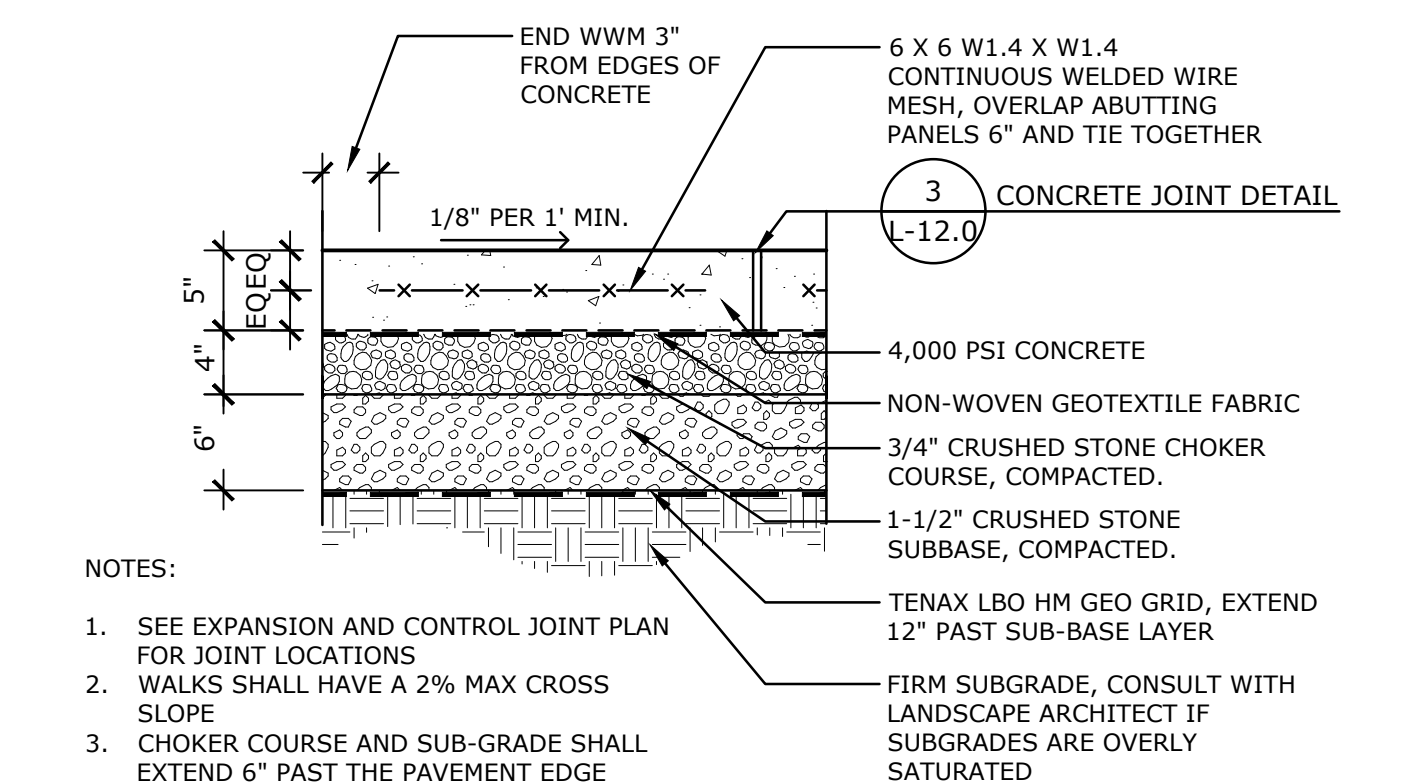


4 BITUMINOUS WALKWAY
NTS P-2021-014-WATE-23



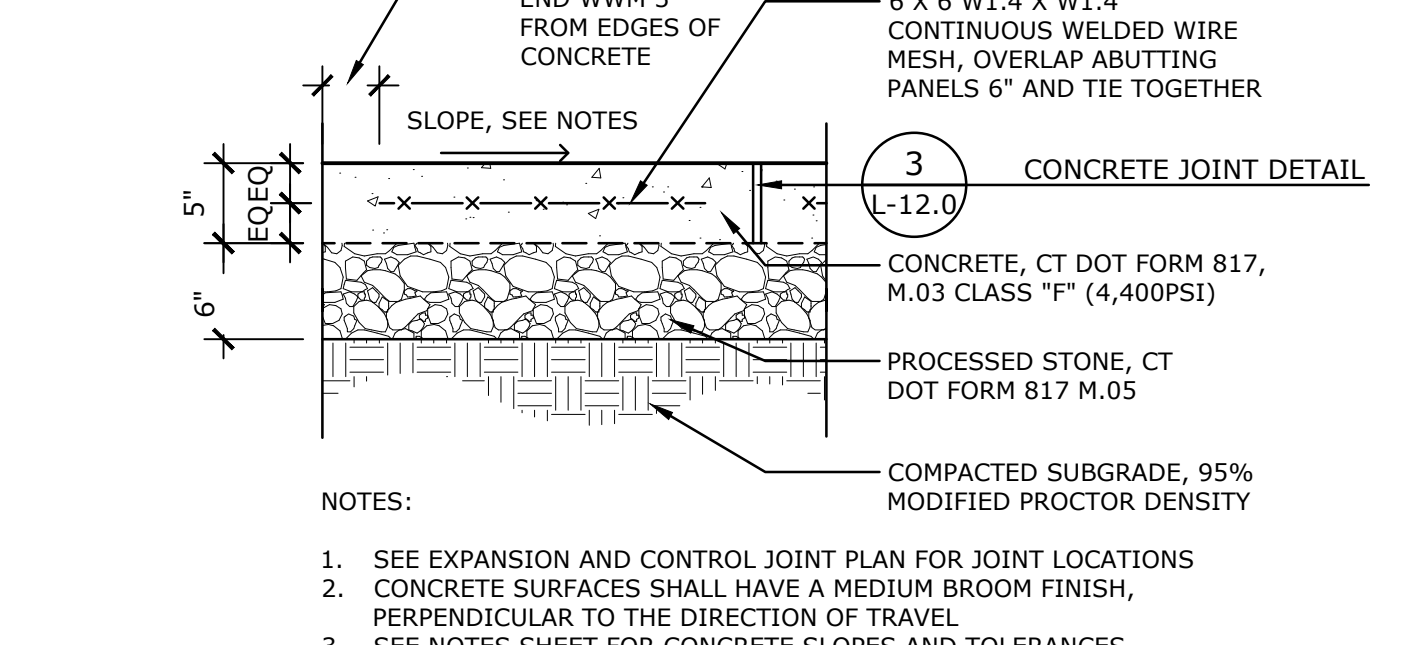
NOTES:
1. SEE EXPANSION AND CONTROL JOINT PLAN FOR LAYOUT OF JOINTS
2. INSTALL EXPANSIONS JOINTS AT 25' O.C. UP TO A MAXIMUM 30' O.C.
3. INSTALL FULL DEPTH 1/2\"/>

3 CONCRETE JOINT DETAIL
NTS P-2021-014-WATE-147



NOTES:
1. SEE EXPANSION AND CONTROL JOINT PLAN FOR JOINT LOCATIONS
2. WALKS SHALL HAVE A 2% MAX CROSS SLOPE
3. CHOKER COURSE AND SUB-GRADE SHALL EXTEND 6\"/>

2 CONCRETE PAVEMENT - WETLAND
NTS P-2021-014-WATE-47



NOTES:
1. SEE EXPANSION AND CONTROL JOINT PLAN FOR JOINT LOCATIONS
2. CONCRETE SURFACES SHALL HAVE A MEDIUM BROOM FINISH, PERPENDICULAR TO THE DIRECTION OF TRAVEL
3. SEE NOTES SHEET FOR CONCRETE SLOPES AND TOLERANCES

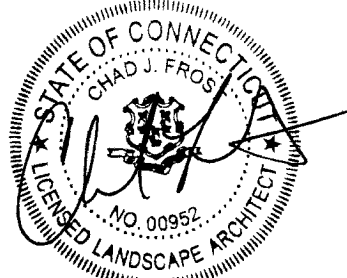
1 CONCRETE PAVEMENT
NTS P-2021-014-WATE-13

WATERFORD CIVIC TRIANGLE

184 Boston Post Road Waterford, CT 06385

LANDSCAPE
KENT + FROST
ARCHITECTURE
1 HIGH STREET
MYSTIC, CT 06355
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Revisions	Date
1 P&Z Revisions	11/03/2023

SITE DETAILS

Scale	AS NOTED
Date	October 11, 2023
K+F Project No.	2021014
Drawing No.	

L-12.0

WATERFORD
CIVIC TRIANGLE

184 Boston Post Road Waterford, CT 06385

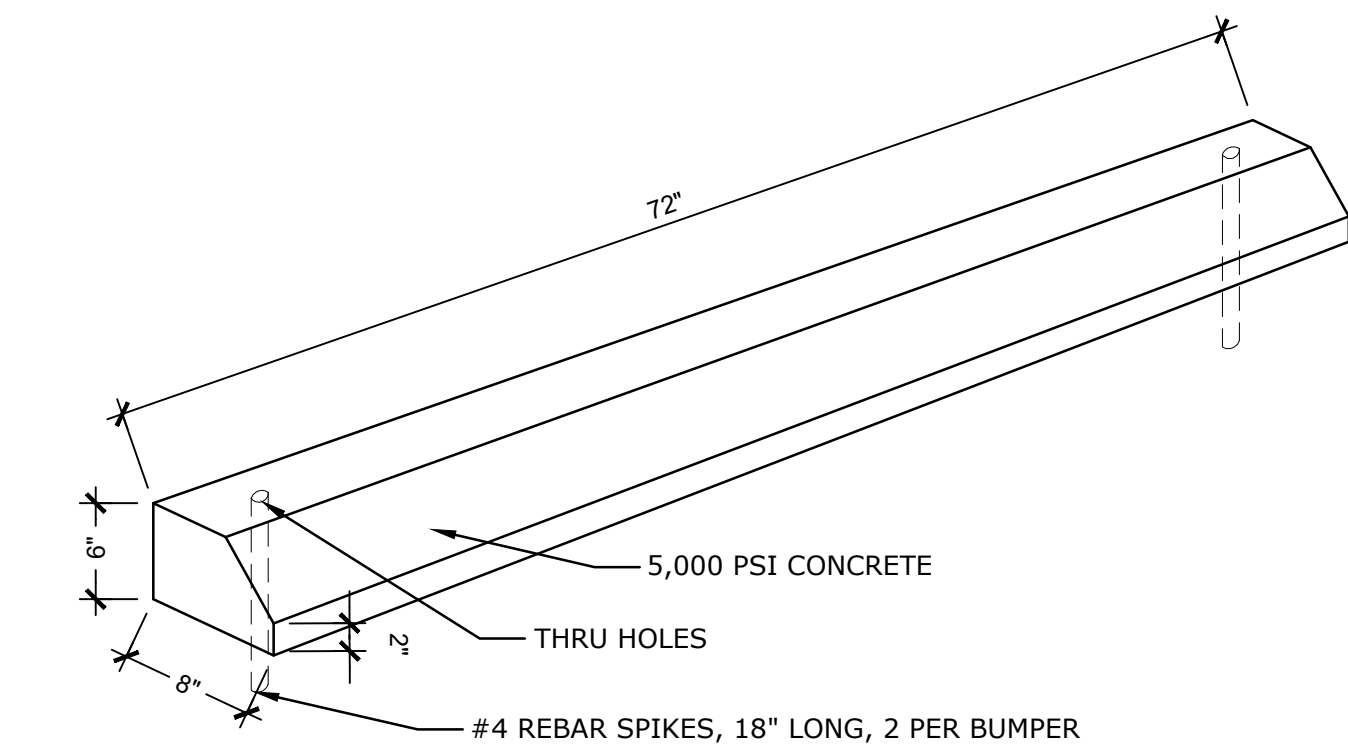
LANDSCAPE
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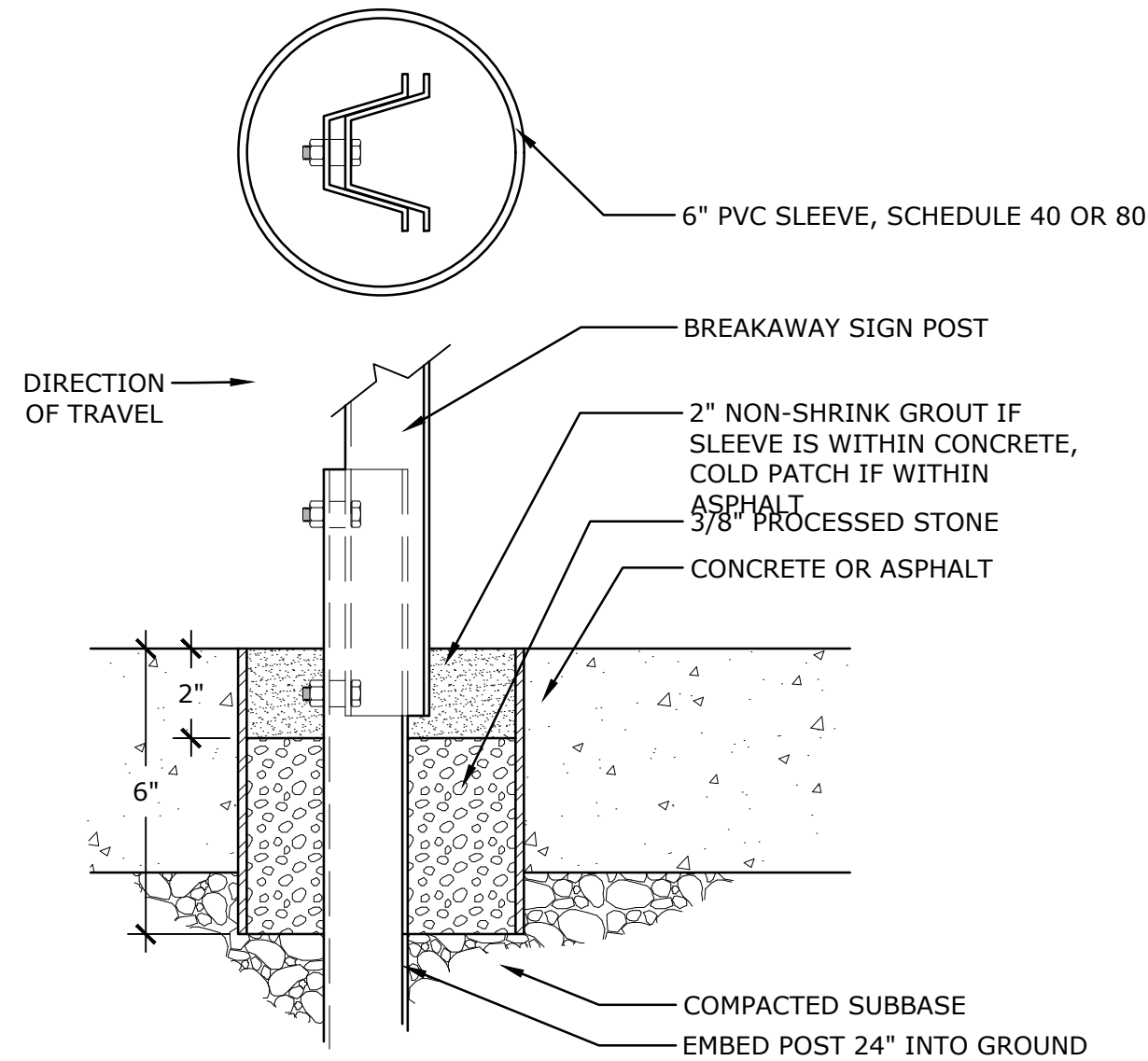
191 NORWICH AVENUE
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8 PRECAST CONCRETE PARKING BUMPER

NTS

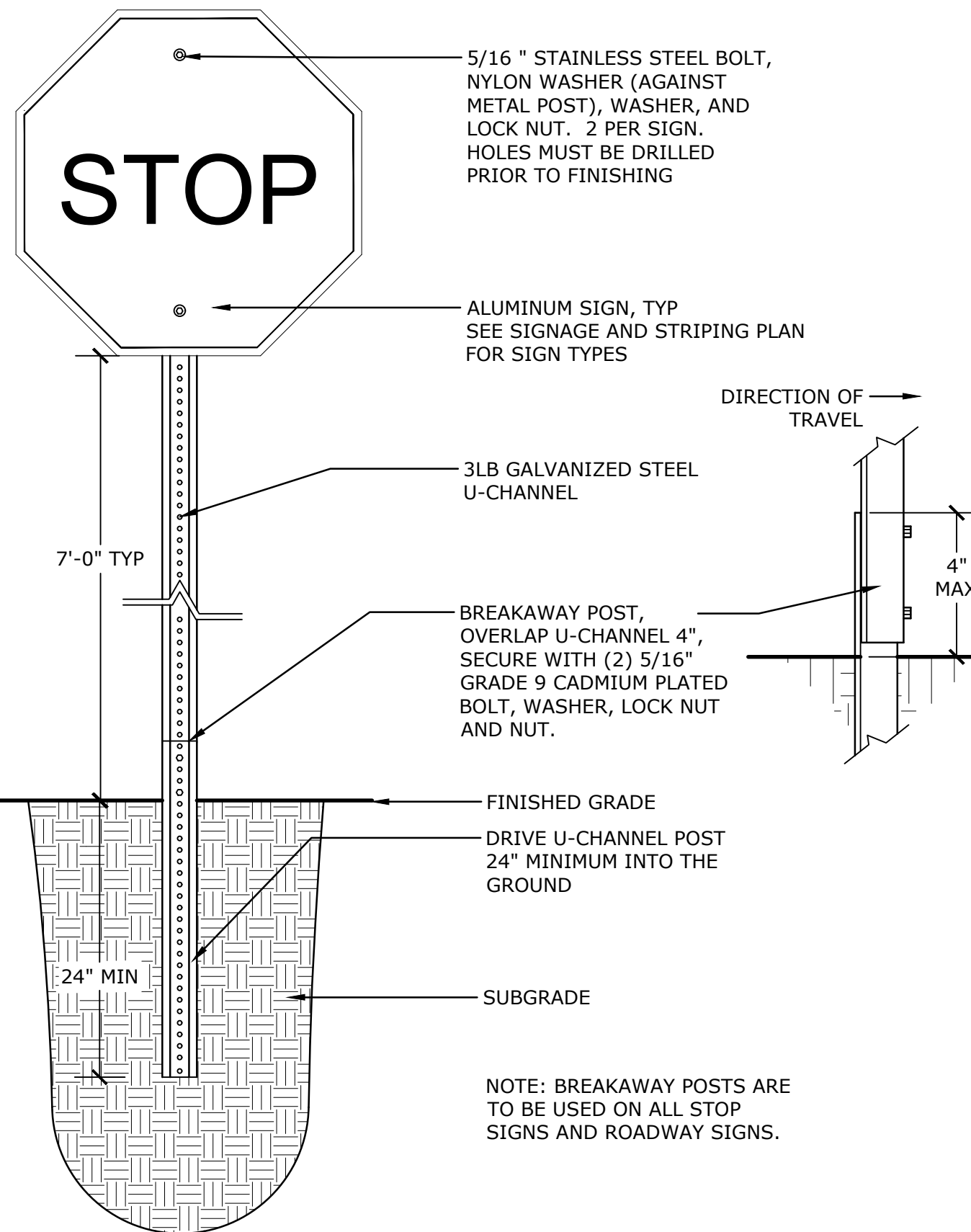
P-2021-014-WATE-71



7 BREAKAWAY SIGN POST SLEEVE

3" = 1'-0"

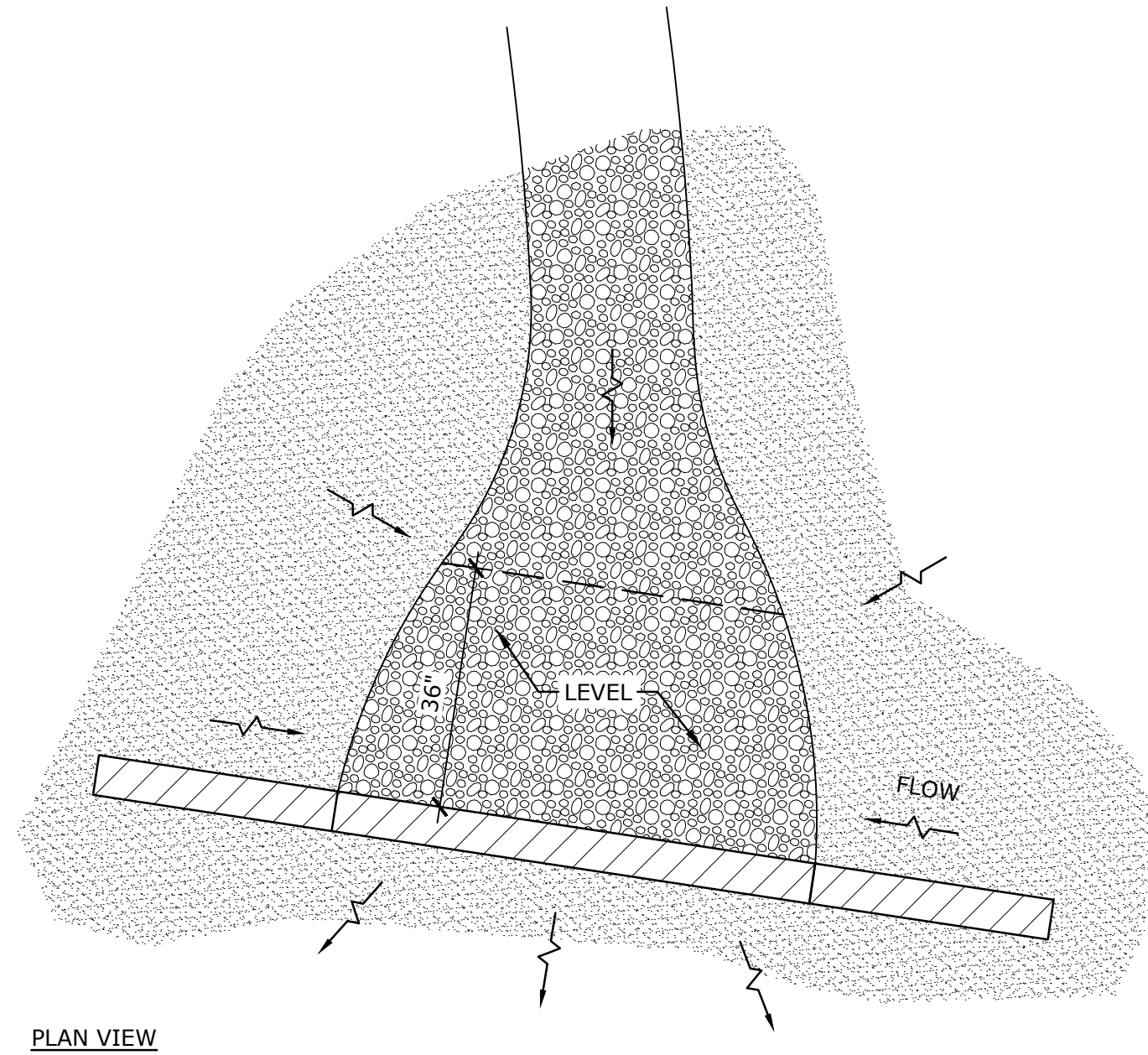
P-2021-014-WATE-40



6 ROADWAY SIGN W/ BREAKAWAY POST

1" = 1'-0"

P-2021-014-WATE-22



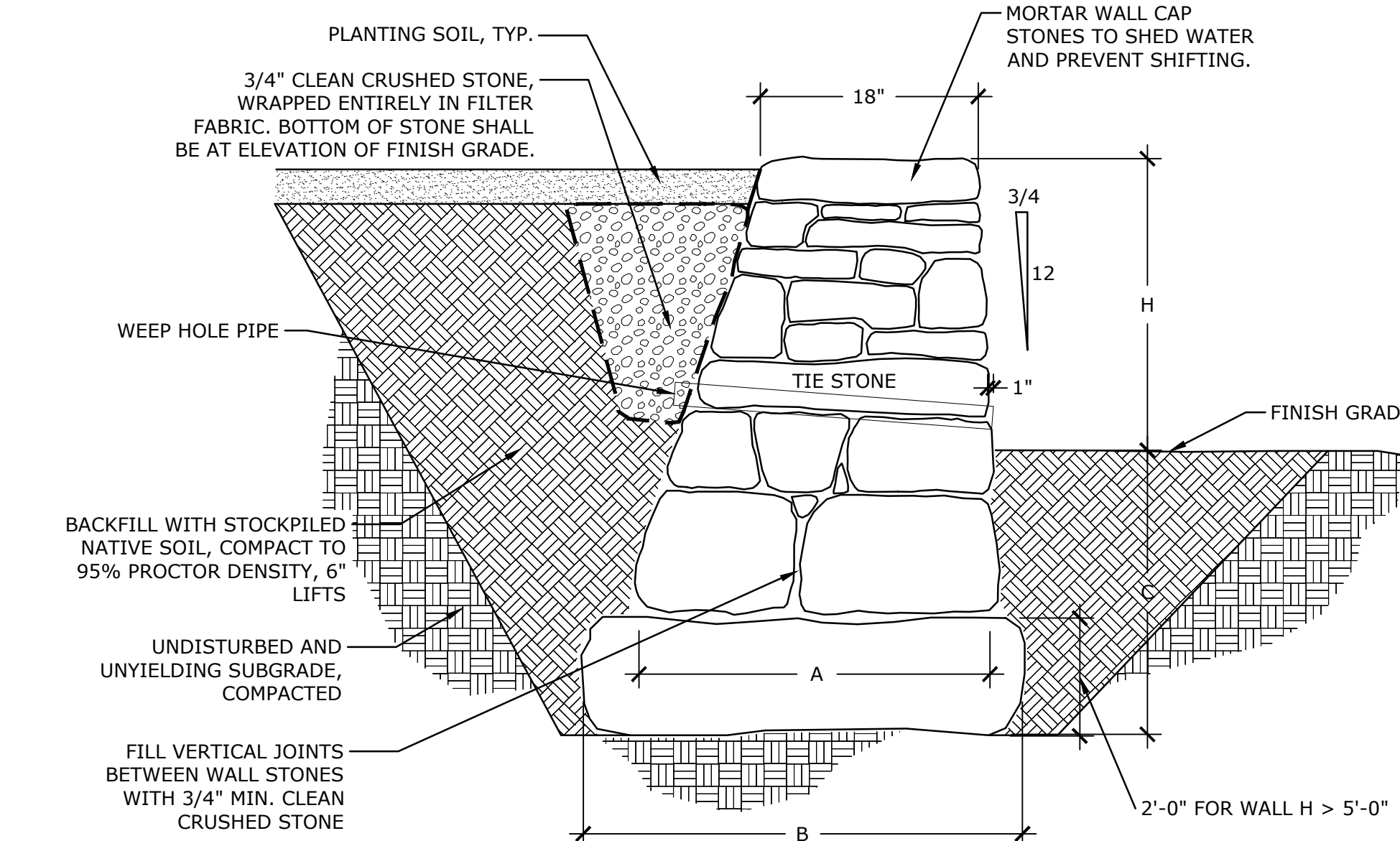
PLAN VIEW

SECTION VIEW

5 LEVEL SPREADER

NTS

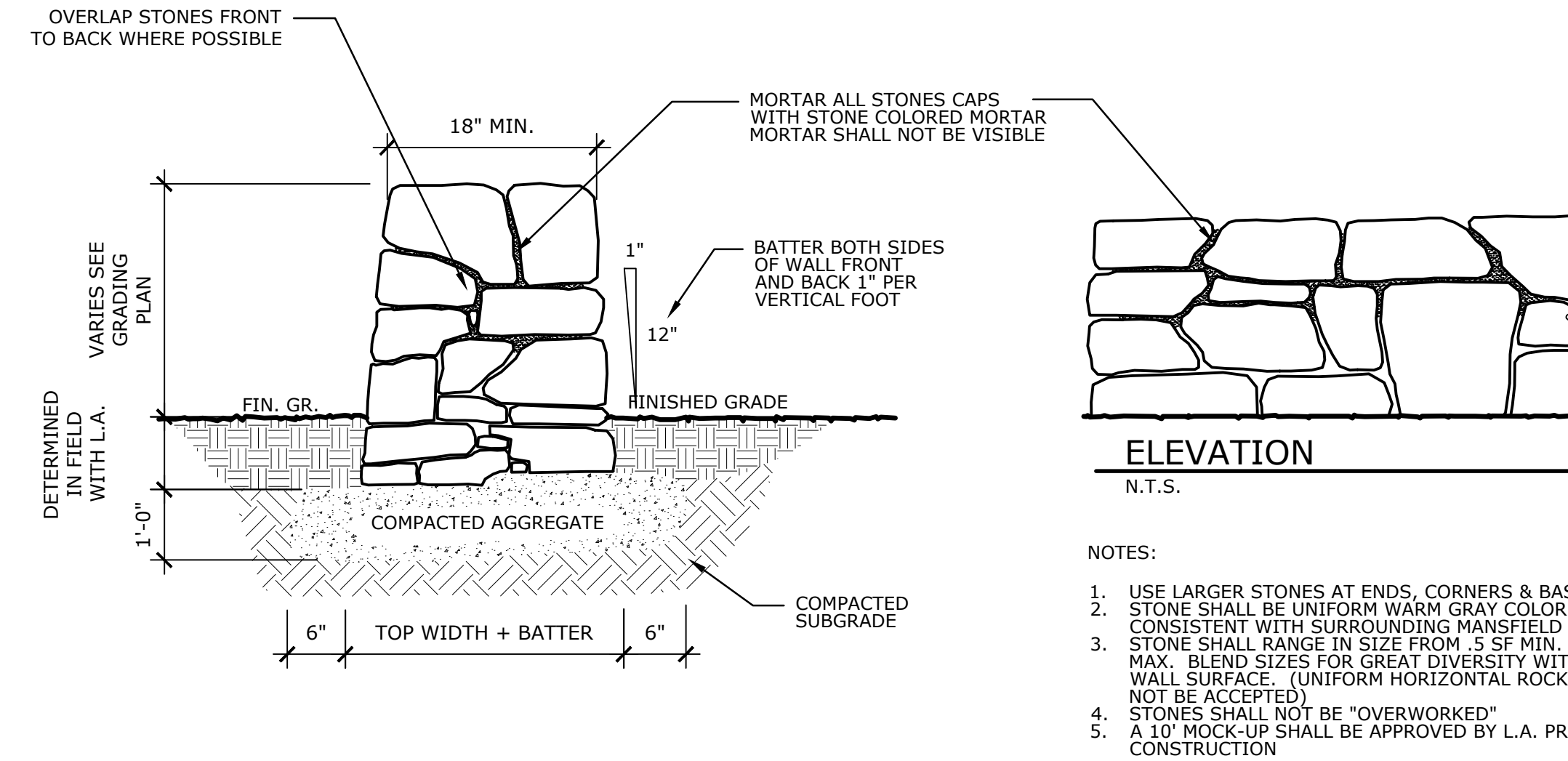
P-2021-014-WATE-154



3 STONE WALL

NTS

P-2021-014-WATE-29



2 DRY LAID FIELDSTONE SEAT WALL

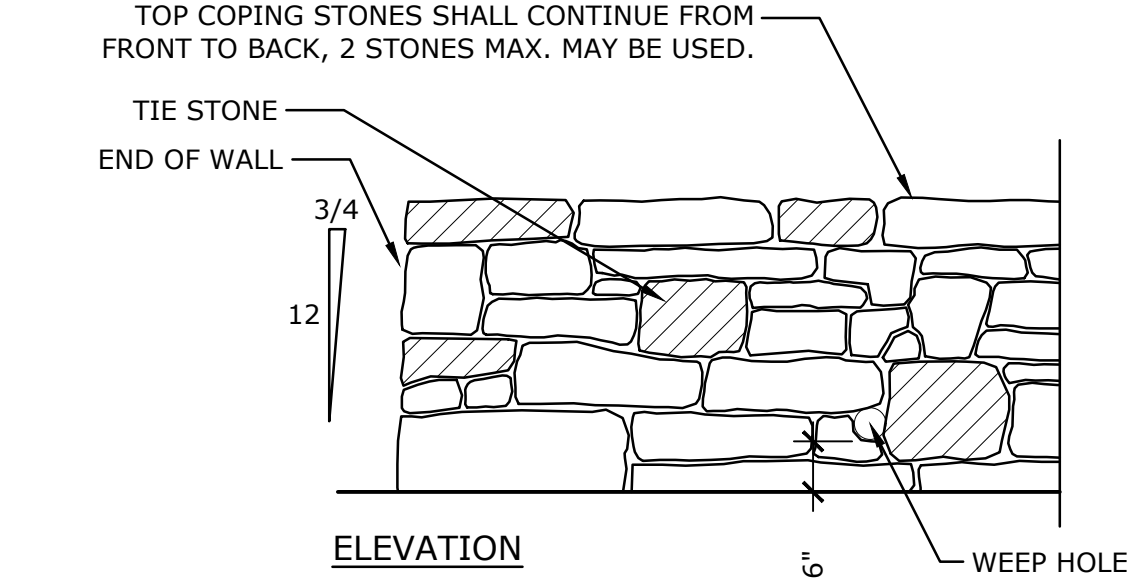
NTS

P-2021-014-WATE-21

4 STONE DRAINAGE STRIP

NTS

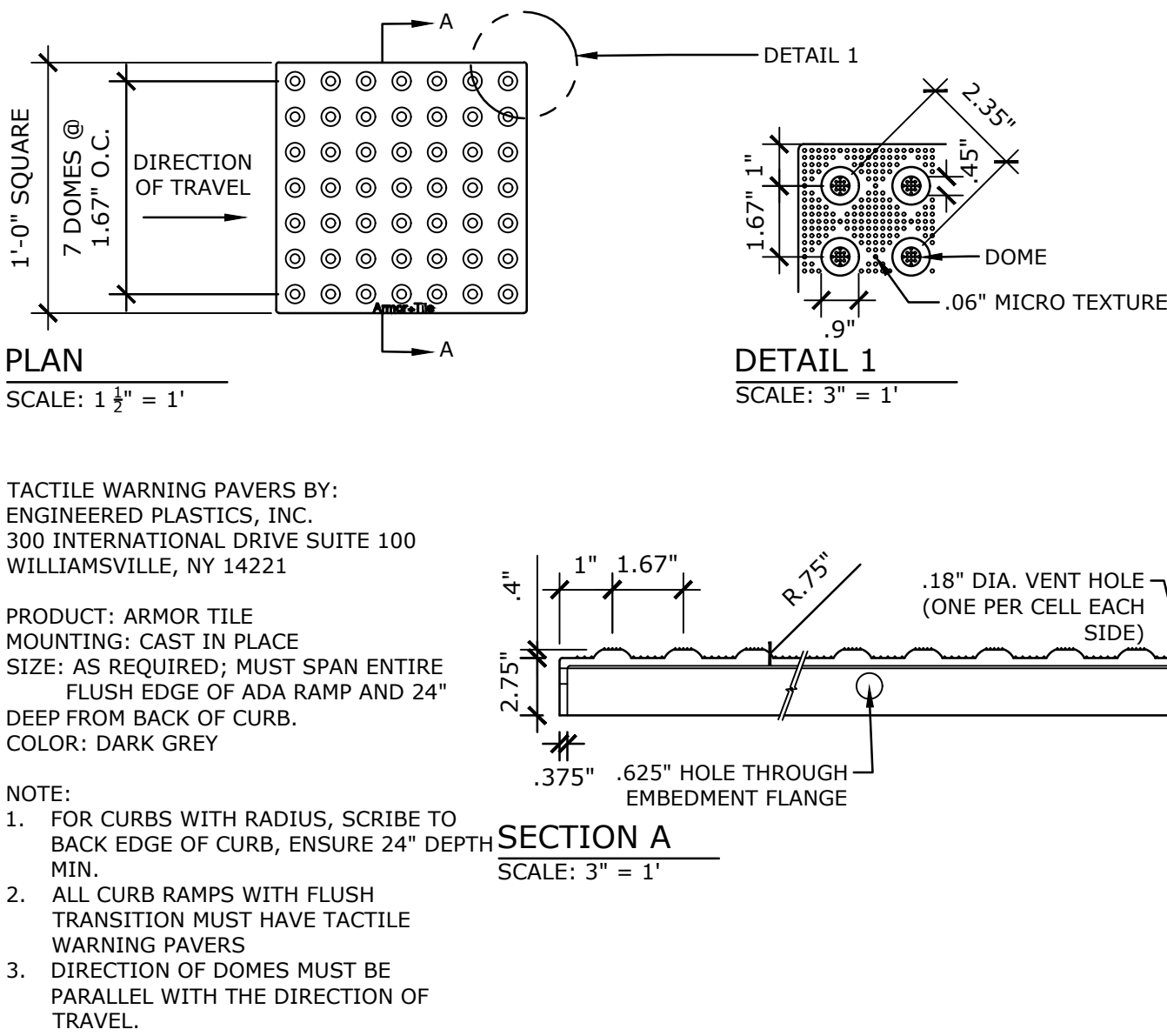
P-2021-014-WATE-148



NOTES

1. USE LARGER STONES AT ENDS, CORNERS & BASE OF WALL.
2. STONE SHALL RANGE IN SIZE FROM .5 SF MIN. - 2.5 SF MAX. BLEND SIZES FOR GREAT DIVERSITY WITHIN THE WALL SURFACE.
3. COMPACT APPROVED FILL IN 6" MAX LIFTS TO 95% PROCTOR DENSITY. DRY JOINTS SHALL NOT EXCEED 1" IN WIDTH.
4. TIE STONES SHALL BE CONTINUOUS FROM THE FRONT TO REAR FACE OF THE WALL AND BE PLACED A MAXIMUM DISTANCE OF 4'-0" O.C. IN ANY DIRECTION.
5. WEEP HOLES SHALL BE CONSTRUCTED OF 2" GREY SCH. 80 PVC SOLID PIPE WHERE H ≤ 5'-0" AND 3" WHERE H > 5'-0".
6. WHERE WALL IS FREE STANDING, FRONT AND BACK BATTER SHALL BE EQUAL AT 3/4:12.
7. THE SEMICIRCULAR WALL FACING THE HARBOR SHALL HAVE A FACE BATTER OF 1:4 MADE WITH LARGE BOULDERS AT THE BASE FOR THE MAJORITY OF THE WALL AND TRANSITIONING TO A FINISHED STONE WALL WHICH MATCHES THE REMAINING SITE WALLS.
8. STAINLESS STEEL TERMINATION VENT CAP SHALL BE INSTALLED ON OUTFLOW SIDE OF WEEP HOLE PIPE TO PREVENT RODENT ACCESS.

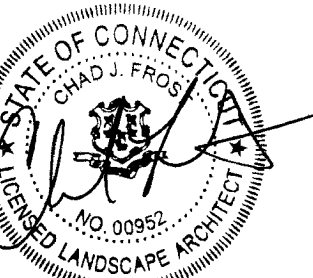
RETAINING WALL DIMENSIONS			
H	A	B	C
2'-0"	3'-3"	-	2'-6"
3'-0"	3'-8"	-	2'-6"
4'-0"	4'-1"	-	2'-6"
5'-0"	4'-6"	-	2'-6"
6'-0"	-	5'-4"	3'-6"
7'-0"	-	6'-2"	3'-6"
8'-0"	-	6'-5"	3'-6"
9'-0"	-	7'-4"	3'-6"
10'-0"	-	7'-10"	3'-6"



1 WARNING PAVERS

NTS

P-2021-014-WATE-15



ISSUED FOR
PERMITTING

Revisions	Date
1 P&Z Revisions	11/03/2023

SITE DETAILS

Scale	AS NOTED
Date	October 11, 2023
K-F Project No.	2021014
Drawing No.	

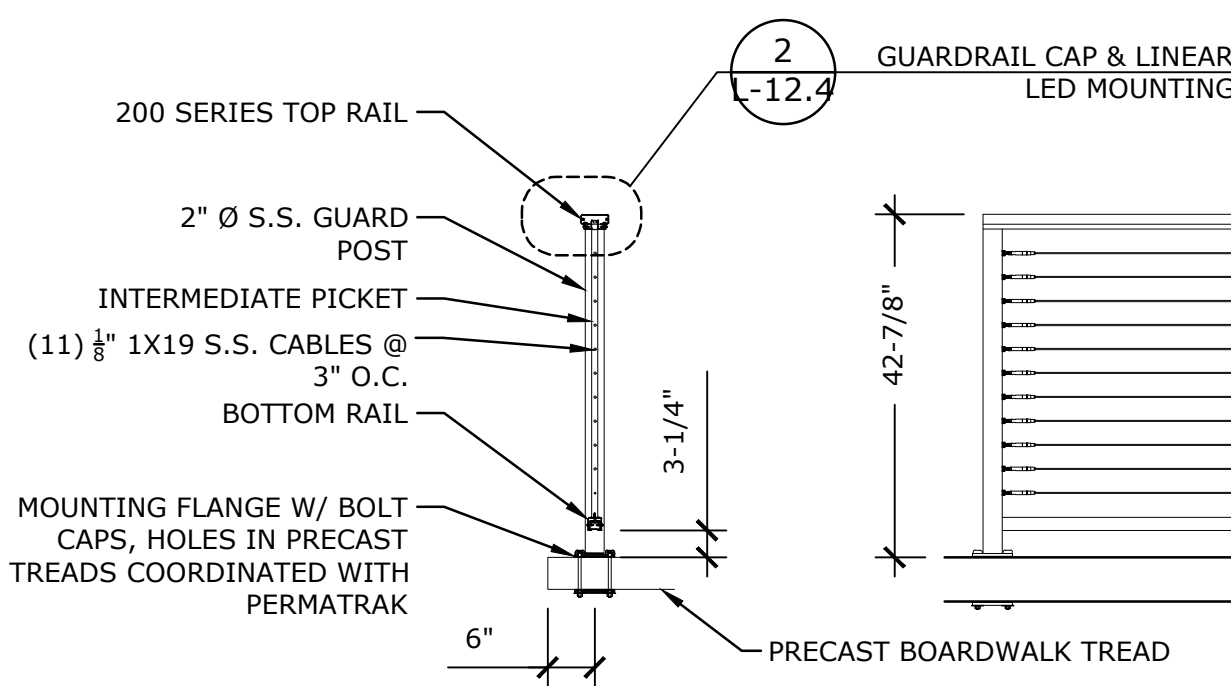
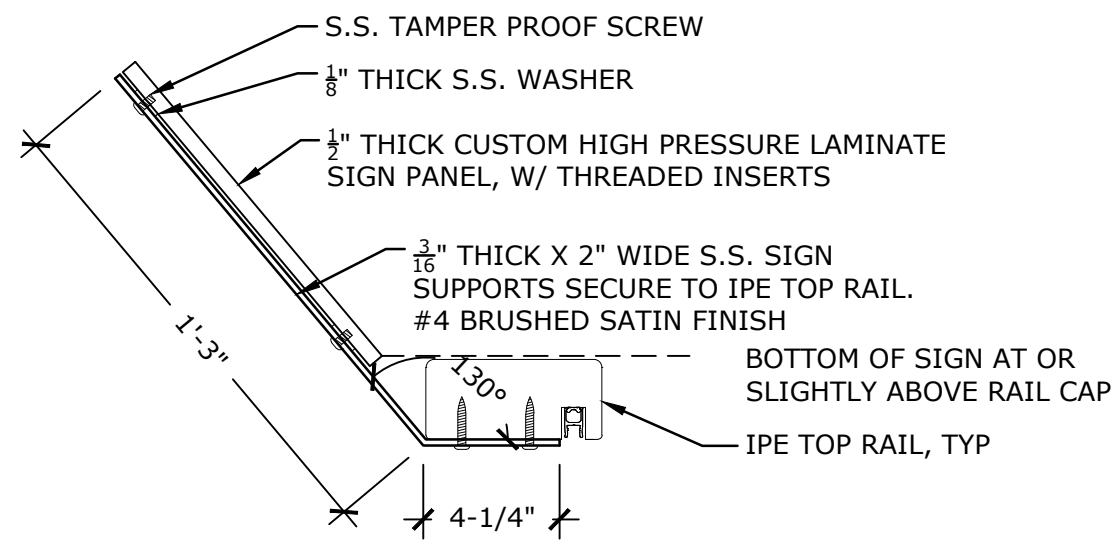
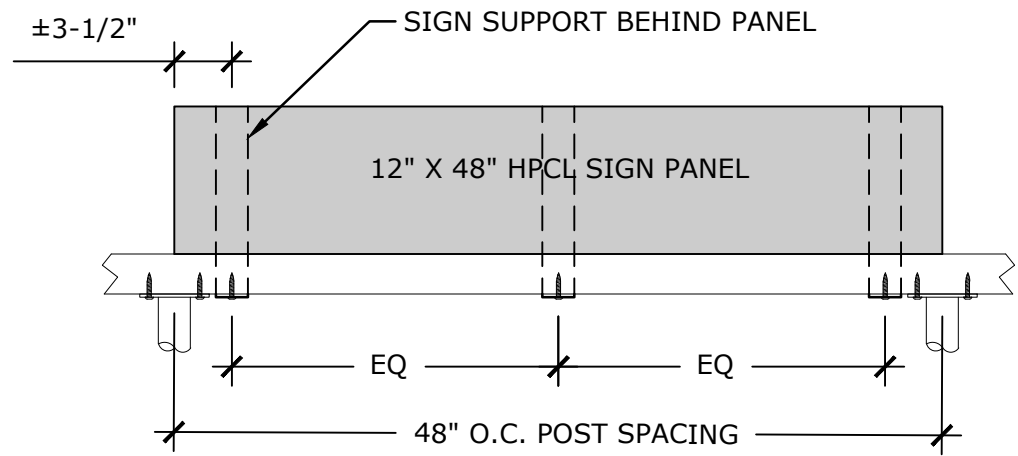
L-12.1

WATERFORD
CIVIC TRIANGLE

184 Boston Post Road Waterford, CT 06385

LANDSCAPE
**KENT+
FROST**
ARCHITECTURE
1 HIGH STREET
MYSTIC, CT 06355
860.572.0784
f866.283.3840

YRC
YANTIC RIVER
CONSULTANTS, LLC
191 NORWICH AVENUE
LEBANON, CT 06249
(860) 367-7264



MANUFACTURER:
FEENEY INC
2603 UNION STREET
OAKLAND, CA 94607
1-800-888-2418

MODEL: DESIGN RAIL W/ 200 SERIES CAP
COLOR: SILVER

- NOTE:
1. INSTALL CABLE RAILING PER MANUFACTURES WRITTEN INSTRUCTIONS.
 2. GUARDRAILS SHALL BE COORDINATED WITH PERMATRAK PRECAST BOARDWALK SYSTEM FOR POST MOUNTING AND LOW VOLTAGE WIRING PASS THRU.

3 GRAPHIC SIGN PANEL ALONG GUARDRAIL

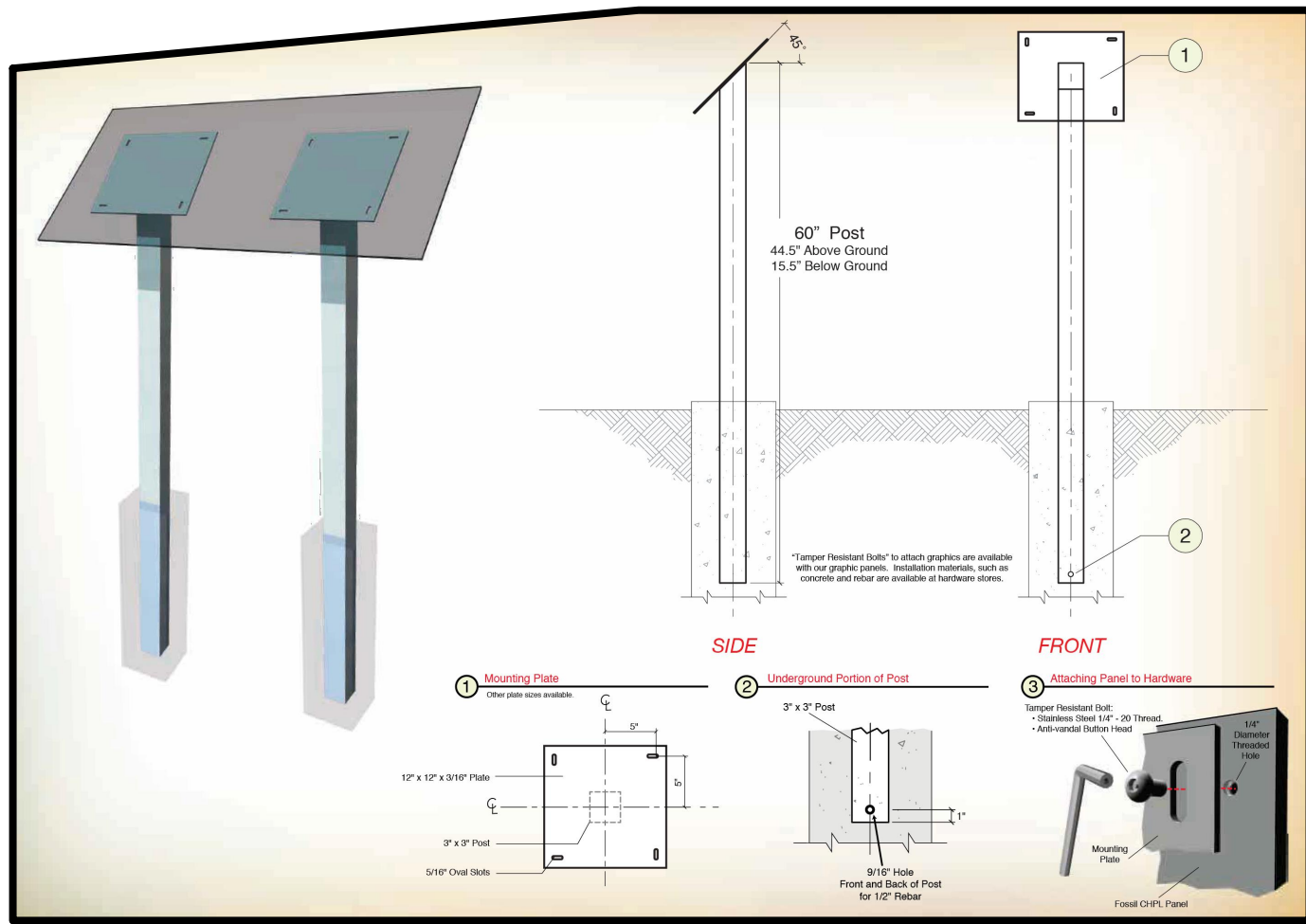
NTS

P-2021-014-WATE-150

2 GUARDRAIL

NTS

P-2021-014-WATE-38



NOTE:
SEE SIGNAGE PLAN FOR SIGN LOCATIONS

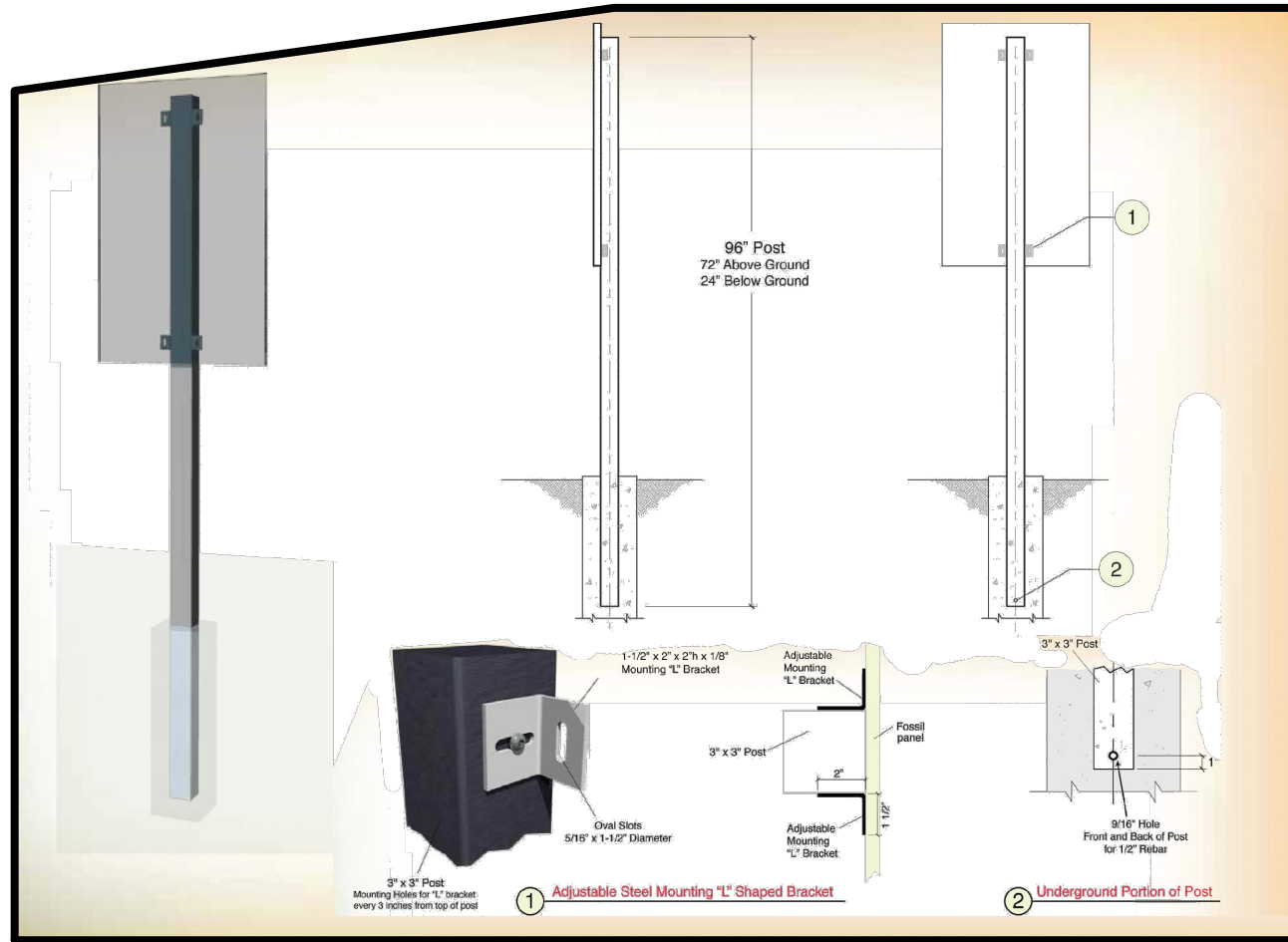
MODEL: DPG1212
COLOR: BLACK
SIGN DIMENSIONS: 12" H X 48" L

MANUFACTURER:
FOSSIL GRAPHICS
44 JEFFRYN BLVD
DEER PARK, NY 11729
631-254-9200

5 DOUBLE POST INTERPRETIVE SIGN MOUNT

NTS

P-2021-014-WATE-164



NOTE:
SEE SIGNAGE PLAN FOR SIGN LOCATIONS

MODEL: USG2
COLOR: BLACK
SIGN DIMENSIONS: 12" H X 12" L

MANUFACTURER:
FOSSIL GRAPHICS
44 JEFFRYN BLVD
DEER PARK, NY 11729
631-254-9200

4 SINGLE POST SIGN MOUNT

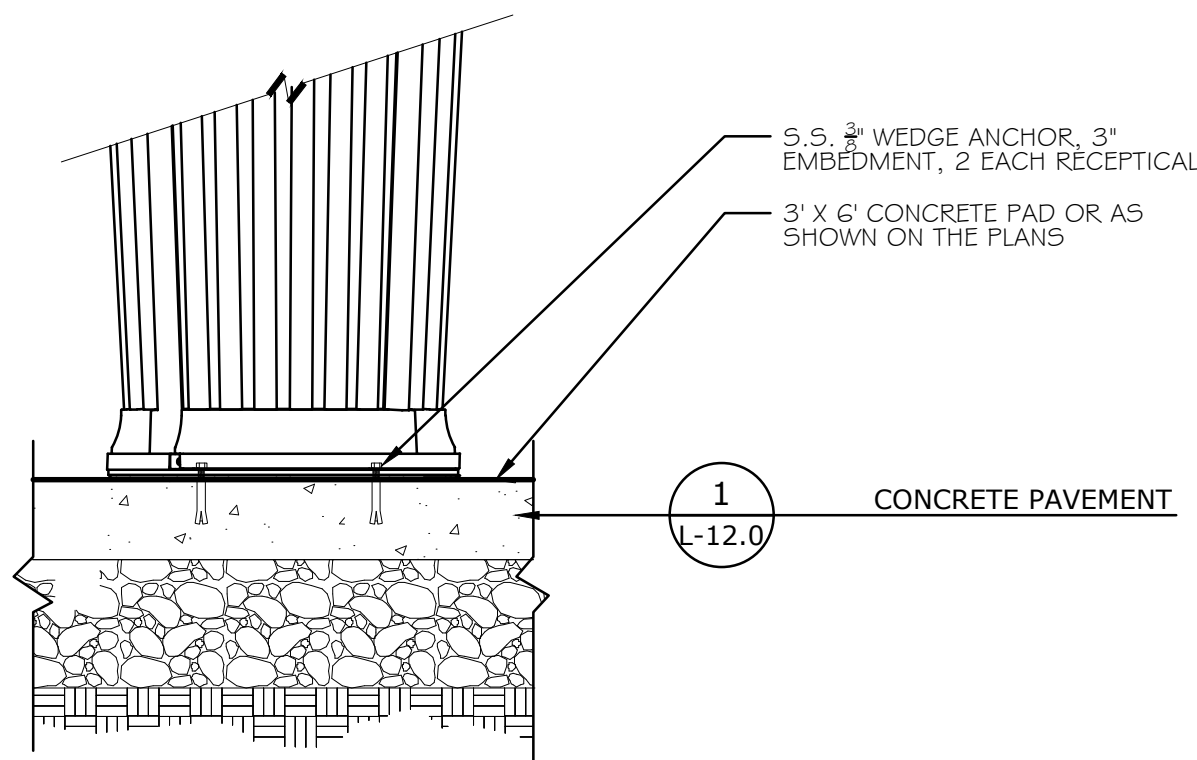
NTS

P-2021-014-WATE-165



MANUFACTURER: LANDSCAPE FORMS
MODEL: POE
DIMENSIONS: 29"0 X 44" TALL
COLOR: TBD
MATERIAL: CAST & EXTRUDED ALUMINUM
CAPACITY: 34 GALLON
QTY: 4 EACH

STYLE 1: SIDE OPENING
STYLE 1 SIGNAGE: WASTE ONLY
STYLE 2: 5" HOLE
STYLE 2 SIGNAGE: RECYCLABLE MATERIALS ONLY

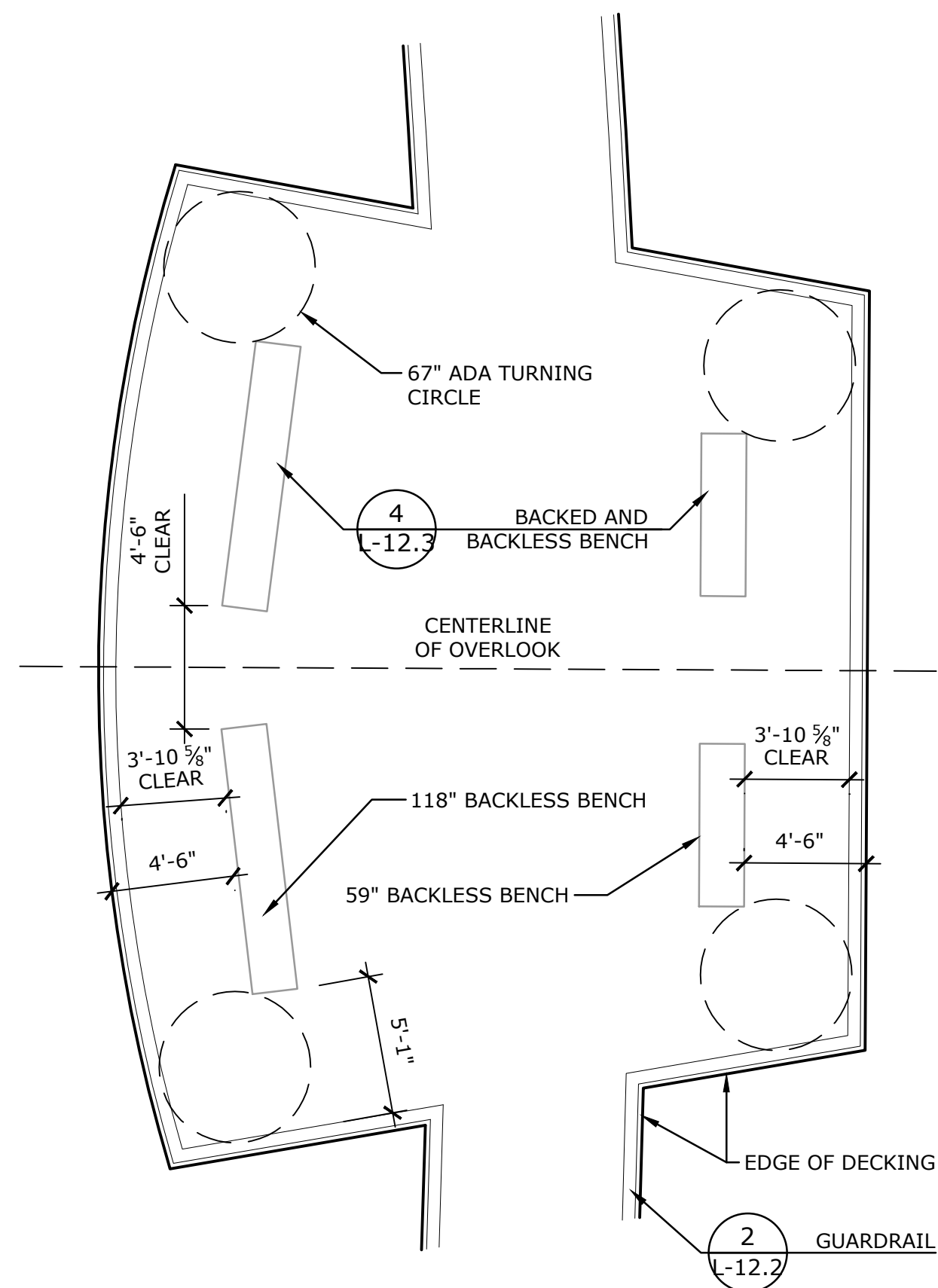


1 CONCRETE PAVEMENT

6 WASTE & RECYCLING RECEPTICAL

NTS

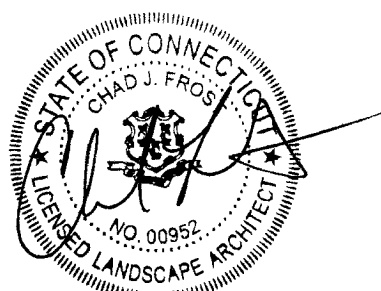
P-2021-014-WATE-167



1 OVERLOOK BENCH LAYOUT

NTS

P-2021-014-WATE-162



ISSUED FOR
PERMITTING

Revisions Date

1 P&Z Revisions 11/03/2023

SITE DETAILS

Scale AS NOTED

Date October 11, 2023

K+F Project No. 2021014

Drawing No.

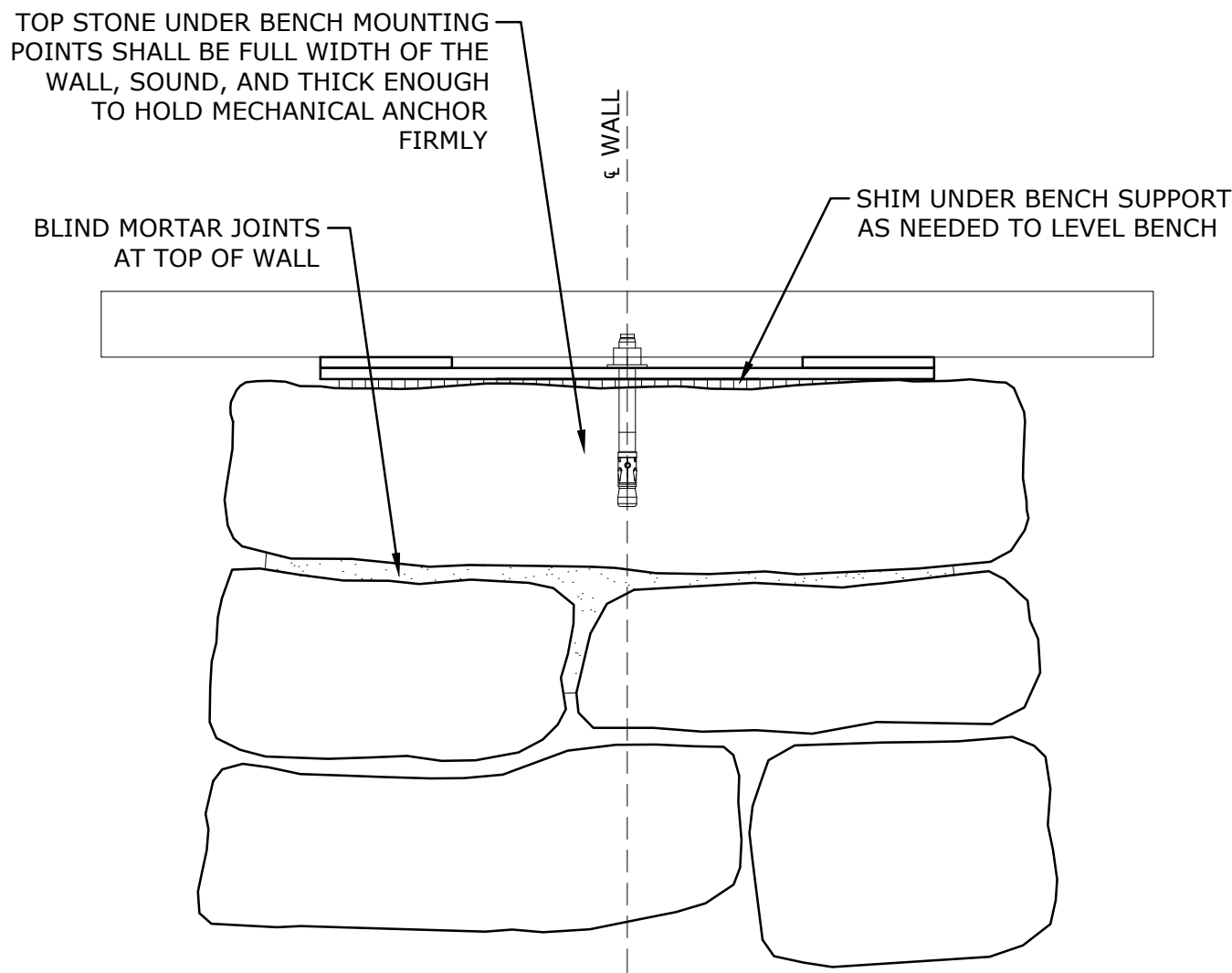
L-12.2

WATERFORD
CIVIC TRIANGLE

184 Boston Post Road Waterford, CT 06385

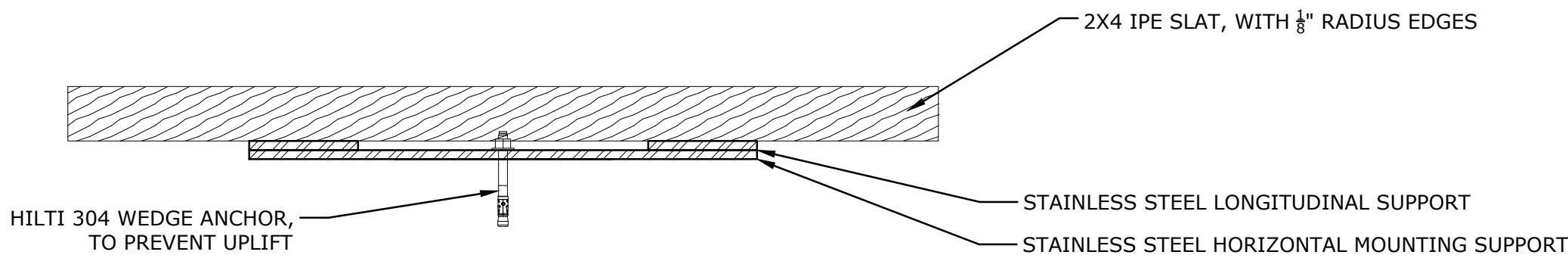
LANDSCAPE
**KENT+
FROST**
ARCHITECTURE
1 HIGH STREET
MYSTIC, CT 06355
860.572.0784
f866.283.3840


YRC
YANTIC RIVER
CONSULTANTS, LLC
191 NORWICH AVENUE
LEBANON, CT 06249
(860) 367-7264

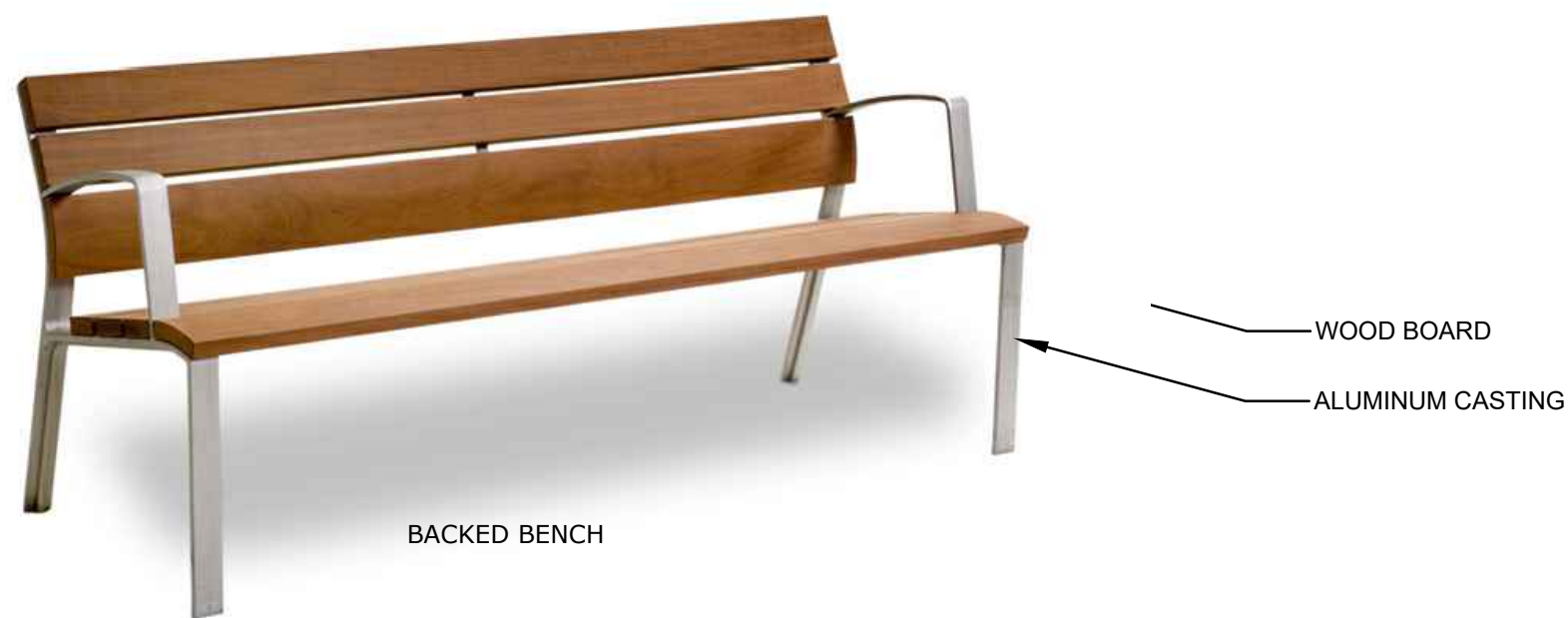


6 WALL TOP BENCH MOUNTING
NTS P-2021-014-WATE-151

MANUFACTURER:
COLUMBIA CASCADE COMPANY
CAMAS, WA 98607
1-800-547-1940
MFG PRODUCT REF:
CURVED WALL-TOP SEAT, 53418-W



5 CURVED WALL TOP BENCH W/ IPE SLATS
NTS P-2021-014-WATE-152

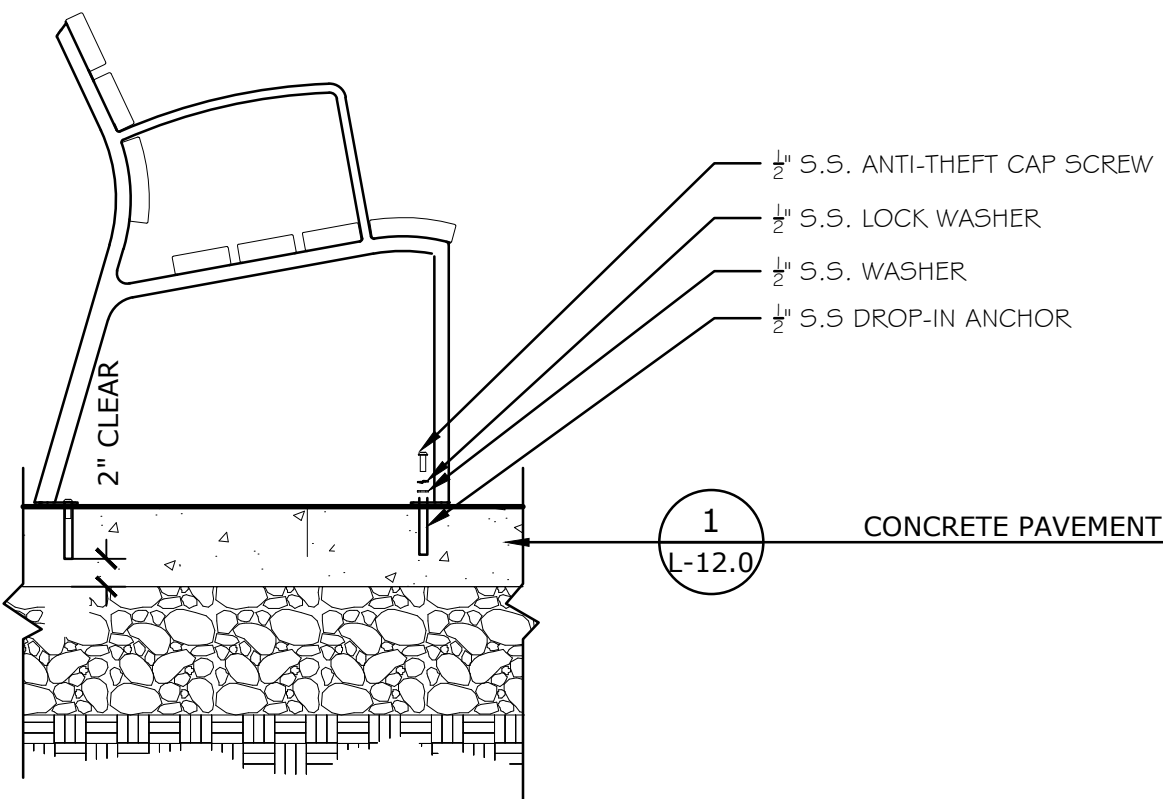
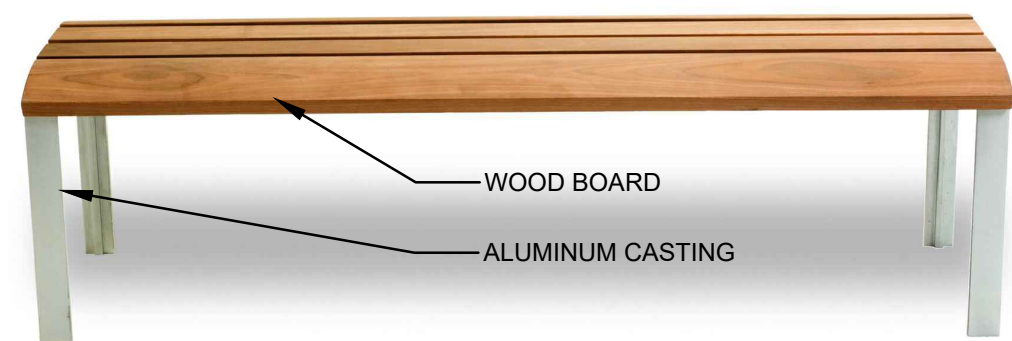


MANUFACTURER: LANDSCAPE FORMS
MODEL: NEOLIVIANO
LENGTH: 69" BACKED
59" BACKLESS
118" BACKLESS
COLOR: 118" BACKLESS
SLAT MATERIAL: ALUMINUM
THERMALLY MODIFIED ASH

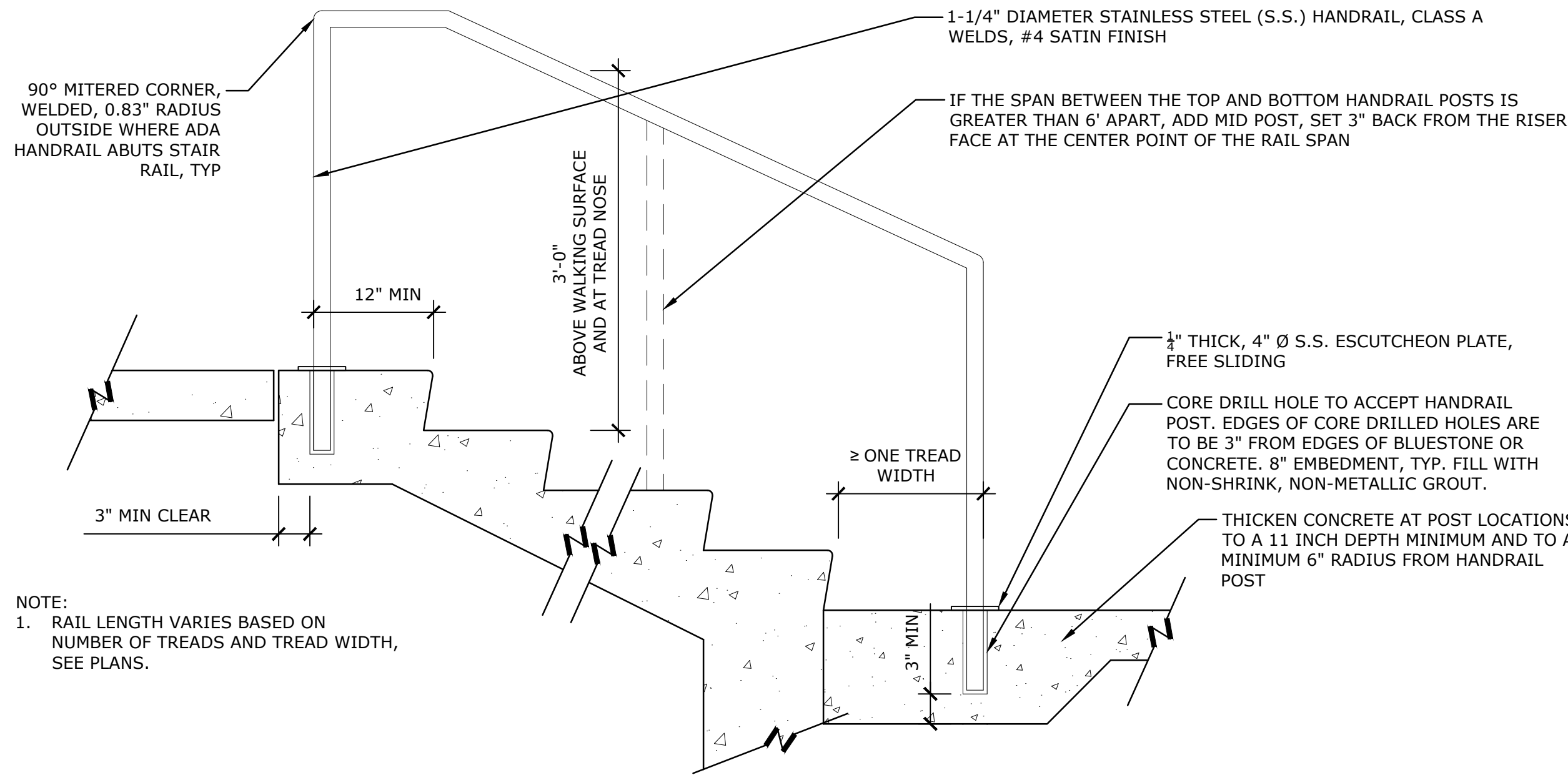
69" BACKED BENCH DIMENSIONS
DEPTH: 26.5"
WIDTH: 69"
HEIGHT: 31"
WEIGHT: 96 LBS

59" BACKLESS BENCH DIMENSIONS
DEPTH: 19.5"
WIDTH: 59"
HEIGHT: 17"
WEIGHT: 51 LBS

118" BACKLESS BENCH DIMENSIONS
DEPTH: 19.5"
WIDTH: 118"
HEIGHT: 17"
WEIGHT: 96 LBS

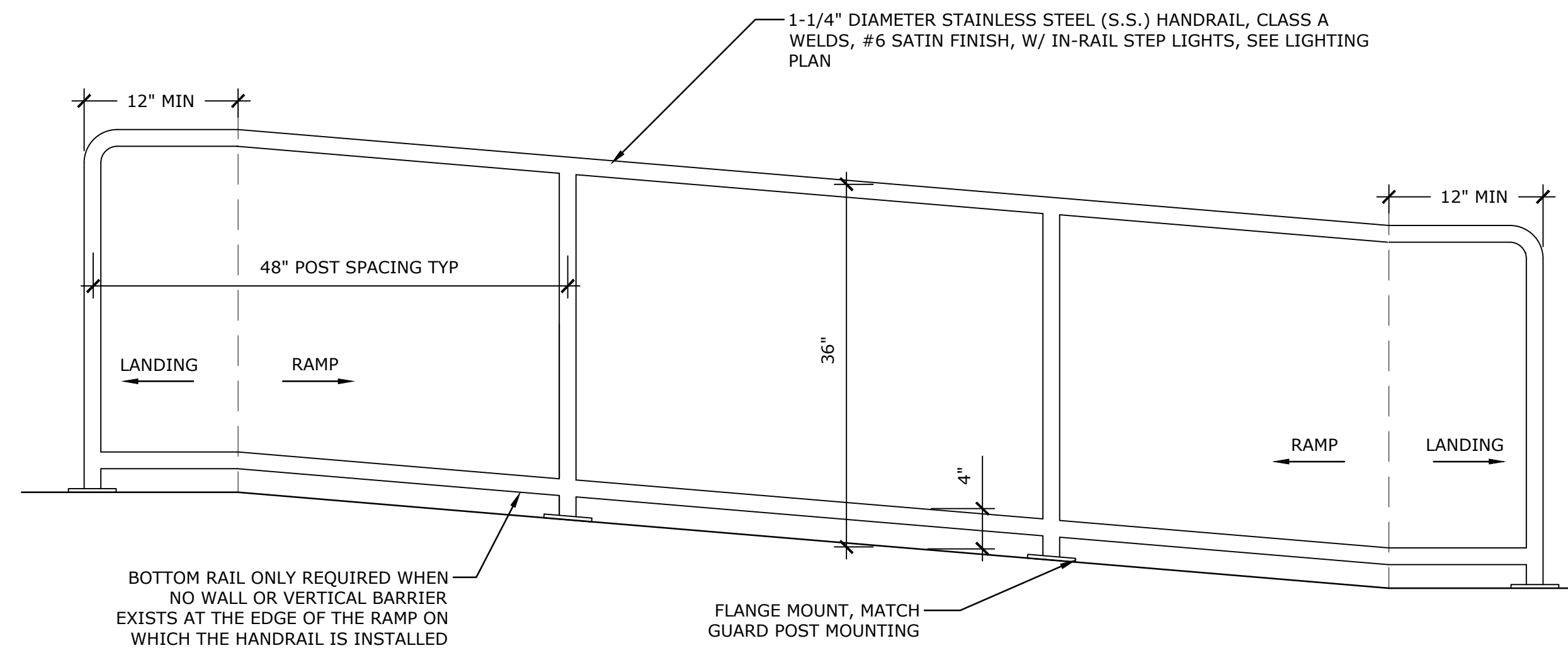


4 BACKED AND BACKLESS BENCH
NTS P-2021-014-WATE-57

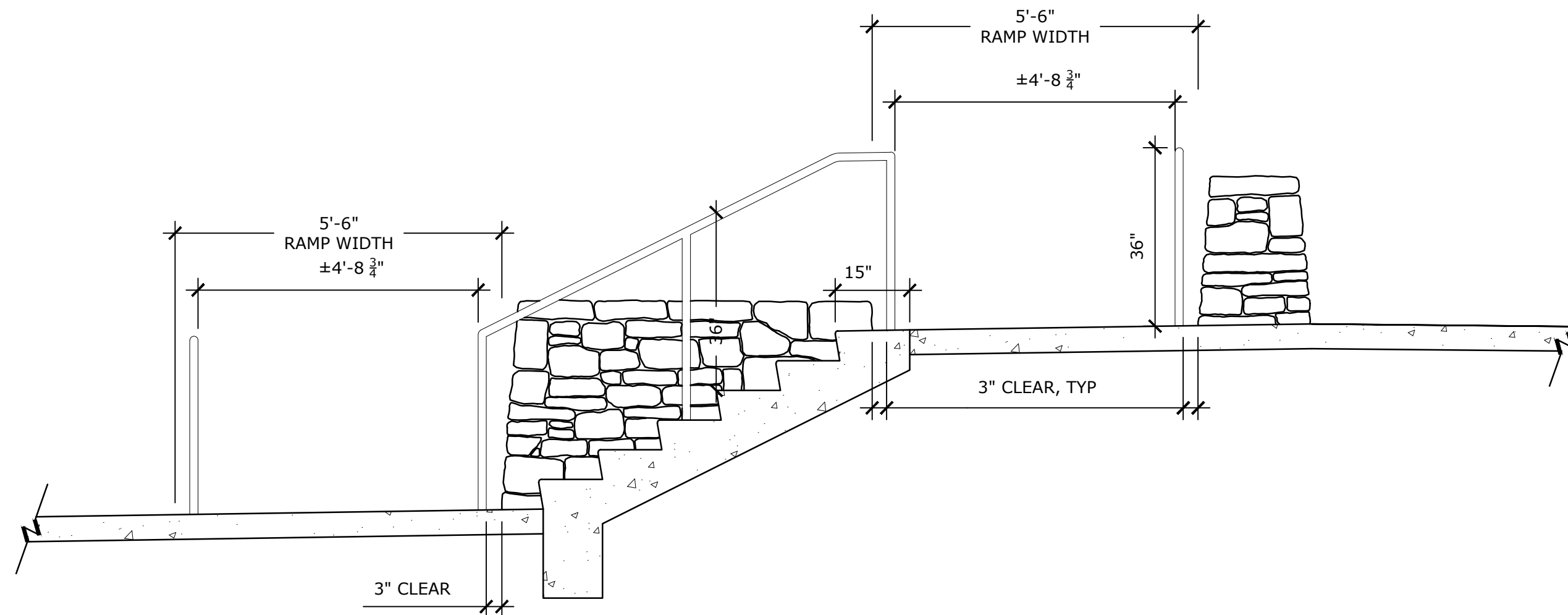


NOTE:
1. RAIL LENGTH VARIES BASED ON
NUMBER OF TREADS AND TREAD WIDTH,
SEE PLANS.

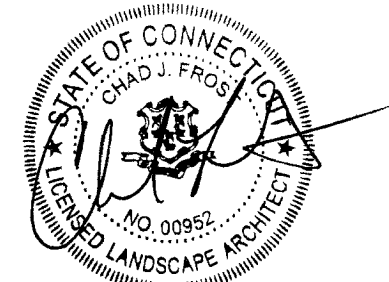
3 STAINLESS STEEL HANDRAIL
NTS P-2021-014-WATE-54



2 STAINLESS STEEL HANDRAIL AT RAMP
NTS P-2021-014-WATE-55



1 PARK ENTRY SECTION
NTS P-2021-014-WATE-53



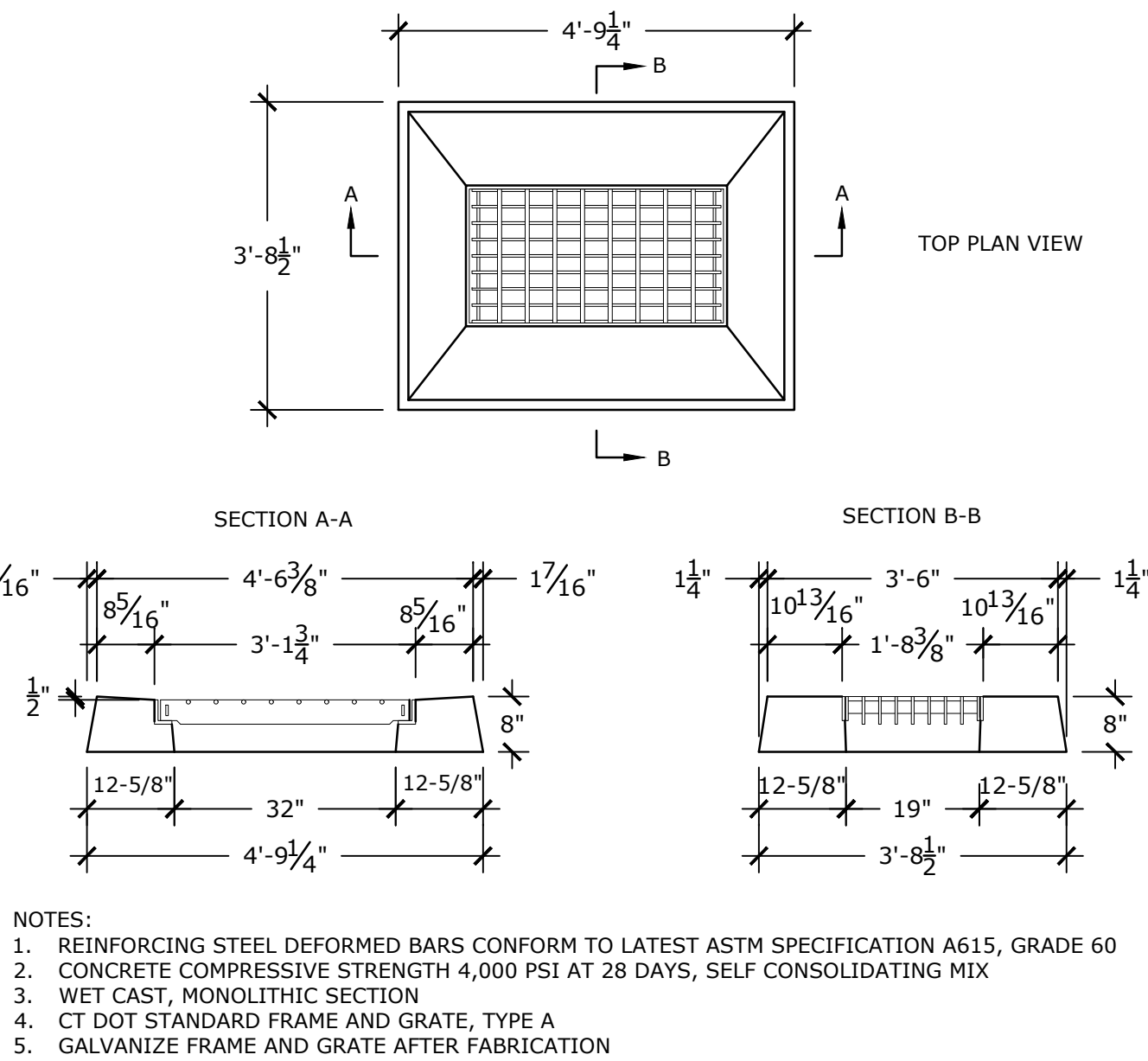
ISSUED FOR
PERMITTING

Revisions	Date
1 P&Z Revisions	11/03/2023

SITE DETAILS

Scale	AS NOTED
Date	October 11, 2023
K+F Project No.	2021014
Drawing No.	

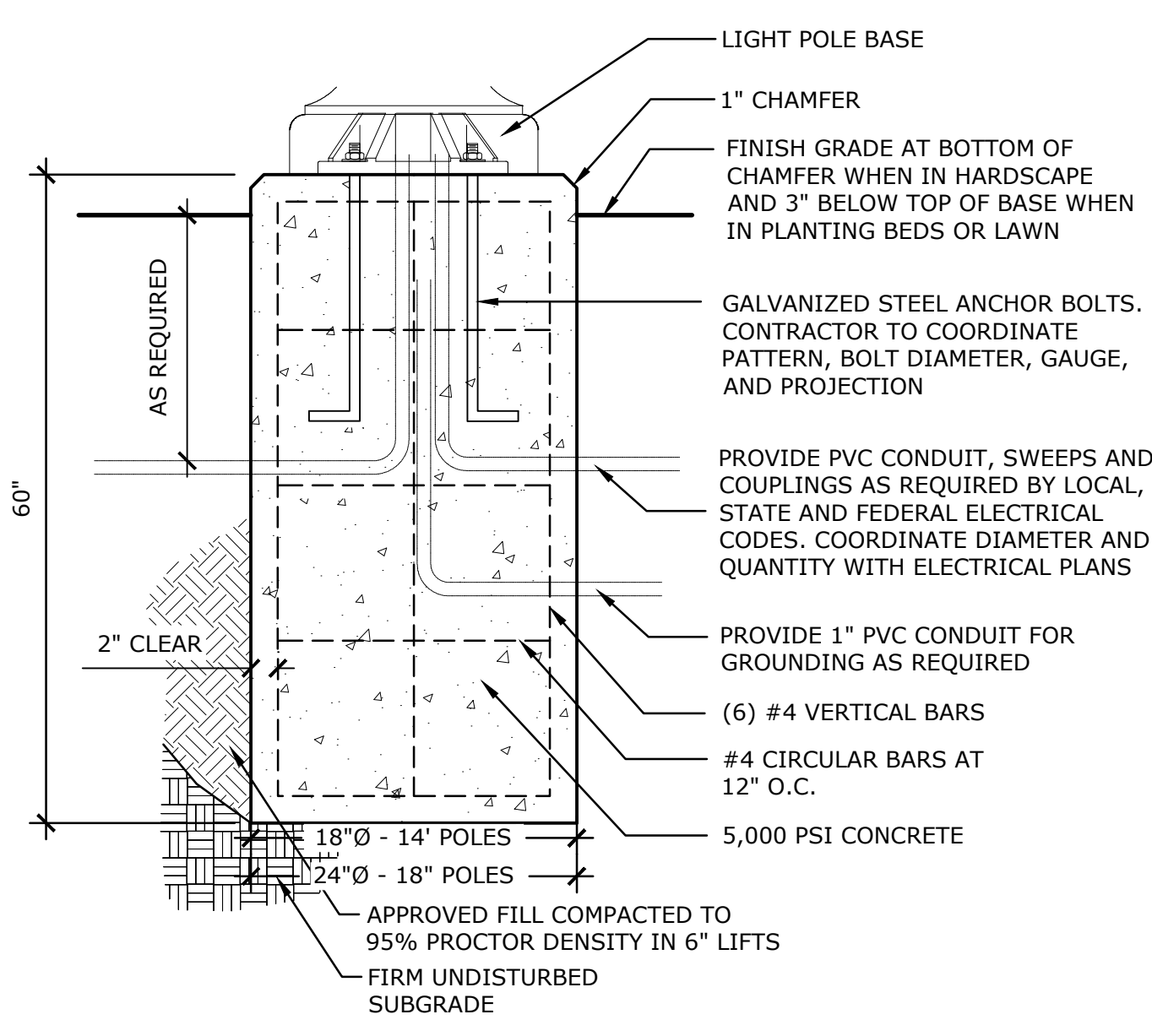
L-12.3



8 CATCH BASIN TOP - TYPE "C-L"

NTS

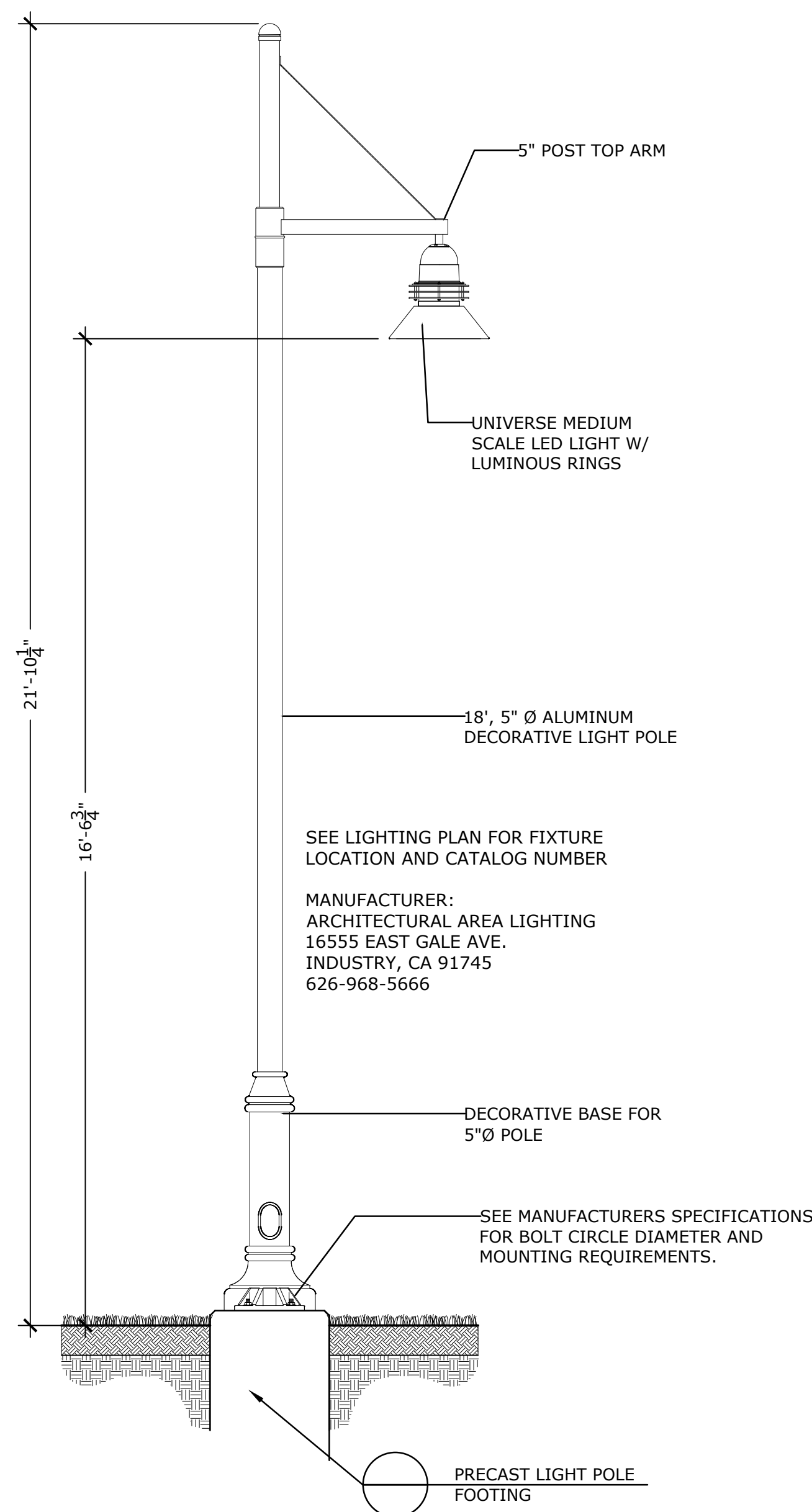
P-2021-014-WATE-73



6 PRECAST LIGHT POLE FOOTING

NTS

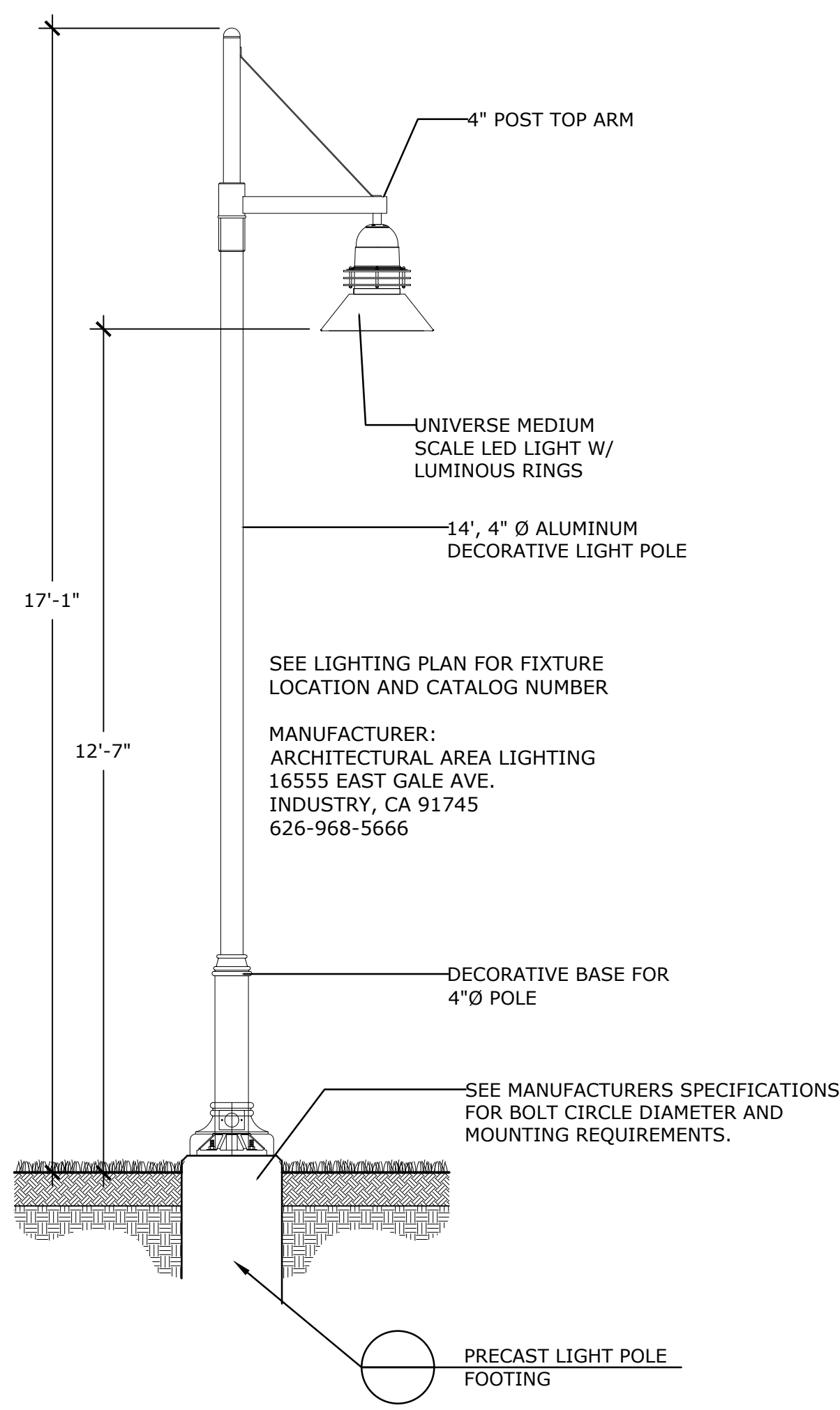
P-2021-014-WATE-17



7 STREETSCAPE LIGHT

NTS

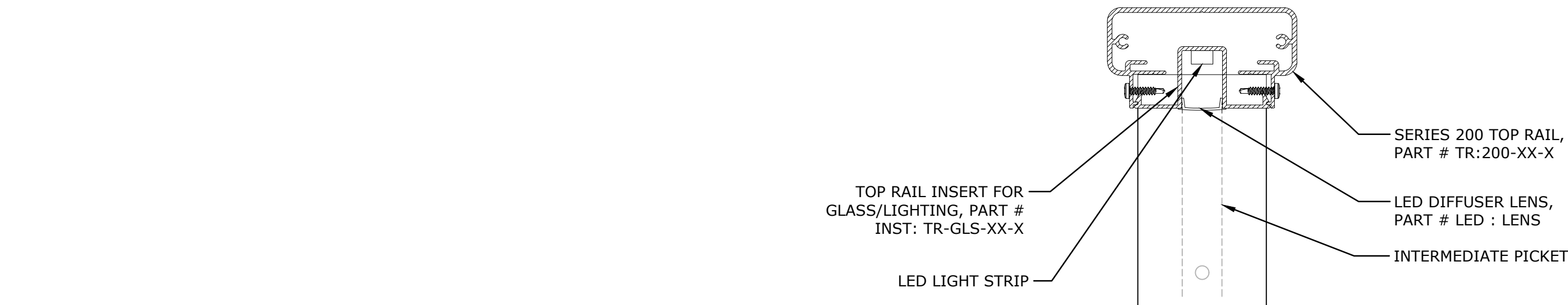
P-2021-014-WATE-30



5 PEDESTRIAN LIGHT

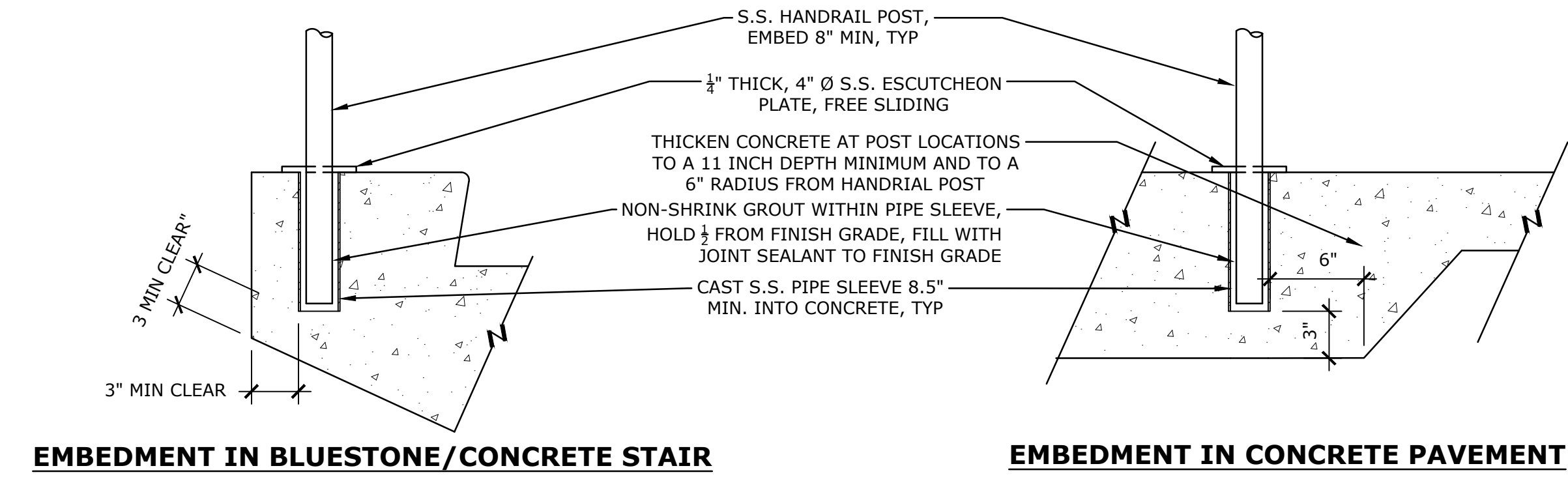
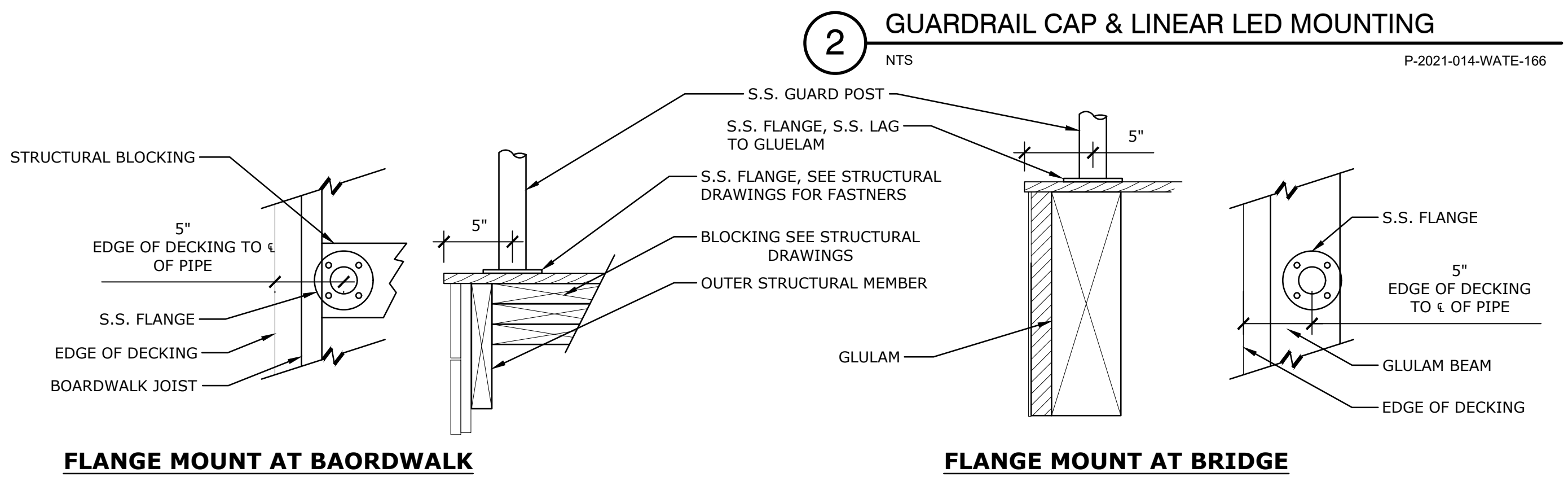
NTS

P-2021-014-WATE-33



NOTES:

1. FOLLOW MANUFACTURERS INSTALLATION INSTRUCTION FOR TOP CAP AND LED LIGHTING & LOW VOLTAGE WIRING.



1 HANDRAIL & GUARDRAIL MOUNTING OPTIONS

NTS

P-2021-014-WATE-95

WATERFORD CIVIC TRIANGLE

184 Boston Post Road Waterford, CT 06385

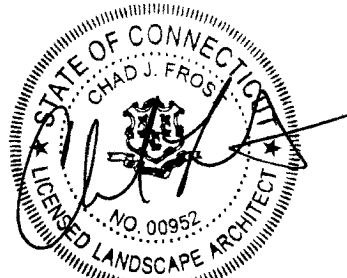
LANDSCAPE
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FROST**
ARCHITECTURE
1 HIGH STREET
MYSTIC, CT 06355
860.572.0784
f866.283.3840



YRC

YANTIC RIVER
CONSULTANTS, LLC

191 NORWICH AVENUE
LEBANON, CT 06249
(860) 367-7264



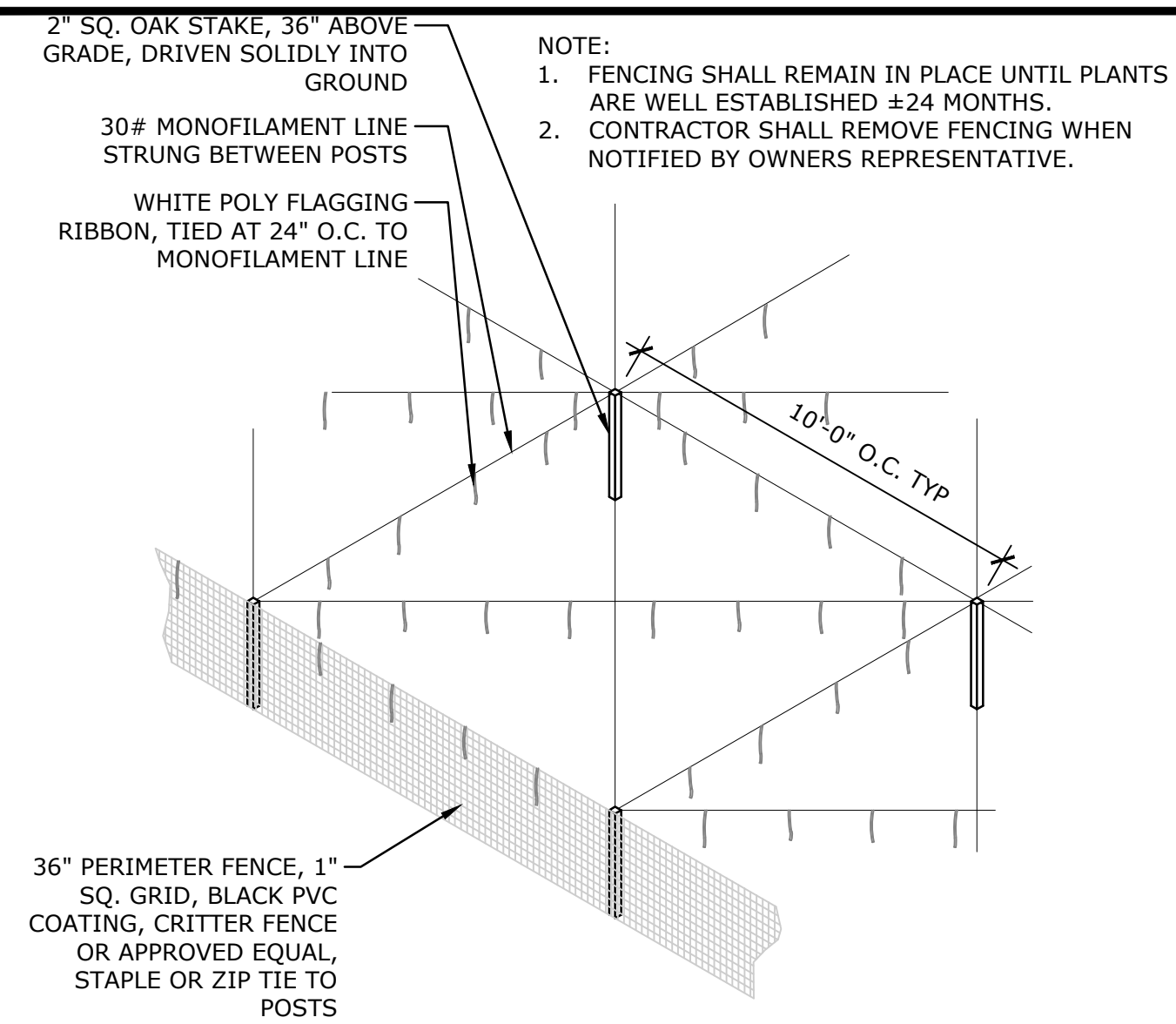
ISSUED FOR
PERMITTING

Revisions	Date
1 P&Z Revisions	11/03/2023

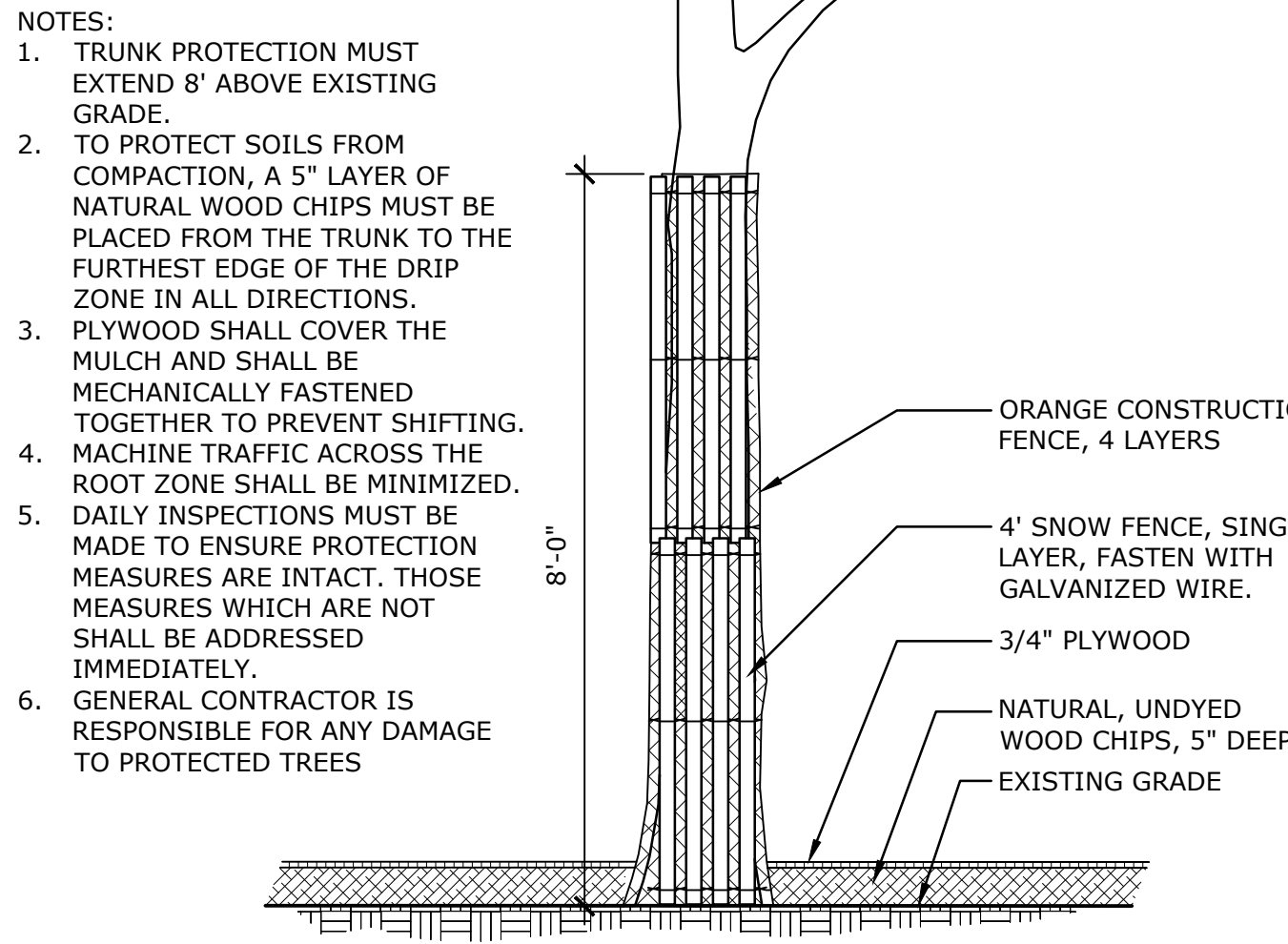
SITE DETAILS

Scale	AS NOTED
Date	October 11, 2023
K+F Project No.	2021014
Drawing No.	

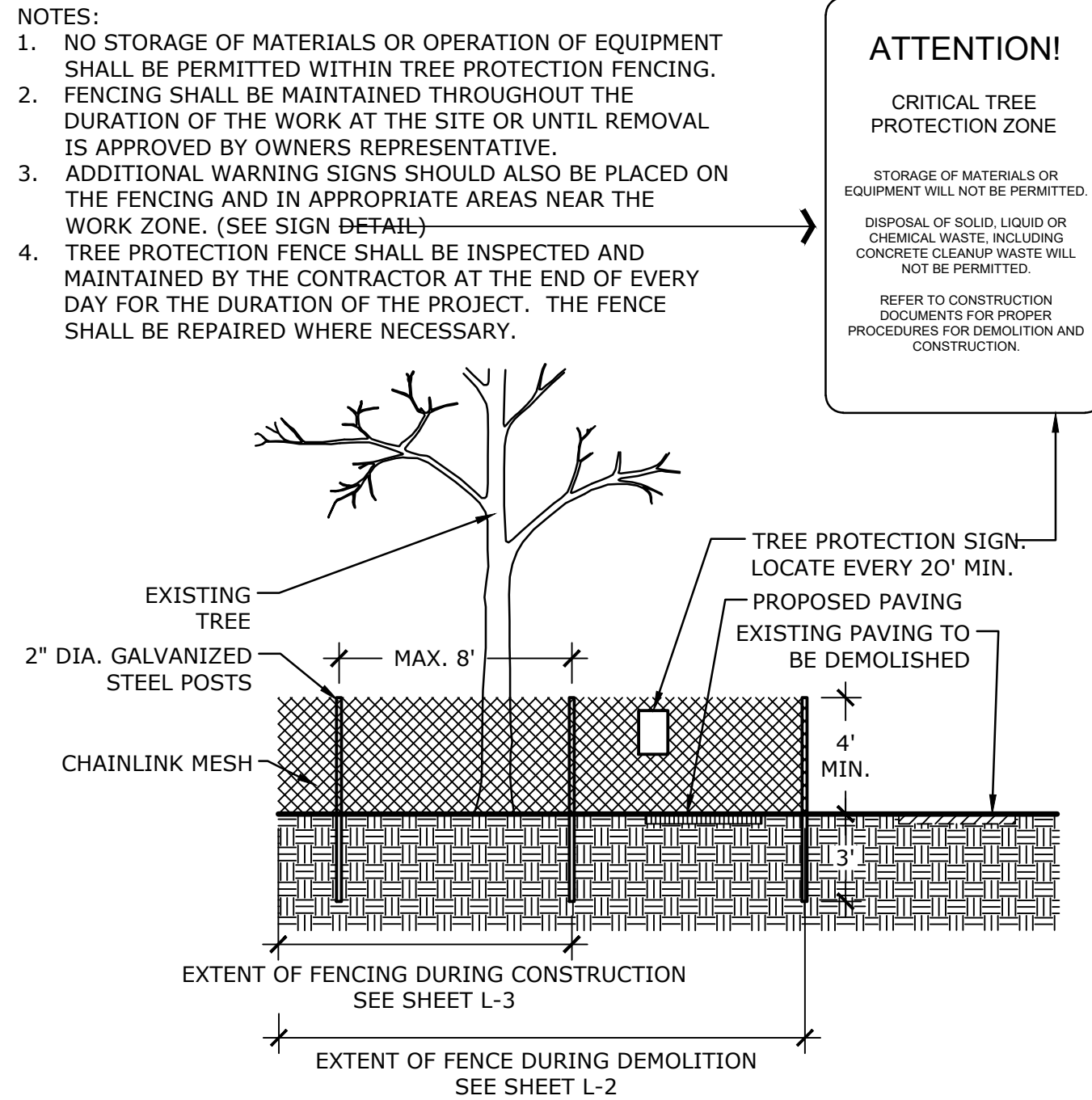
L-12.4



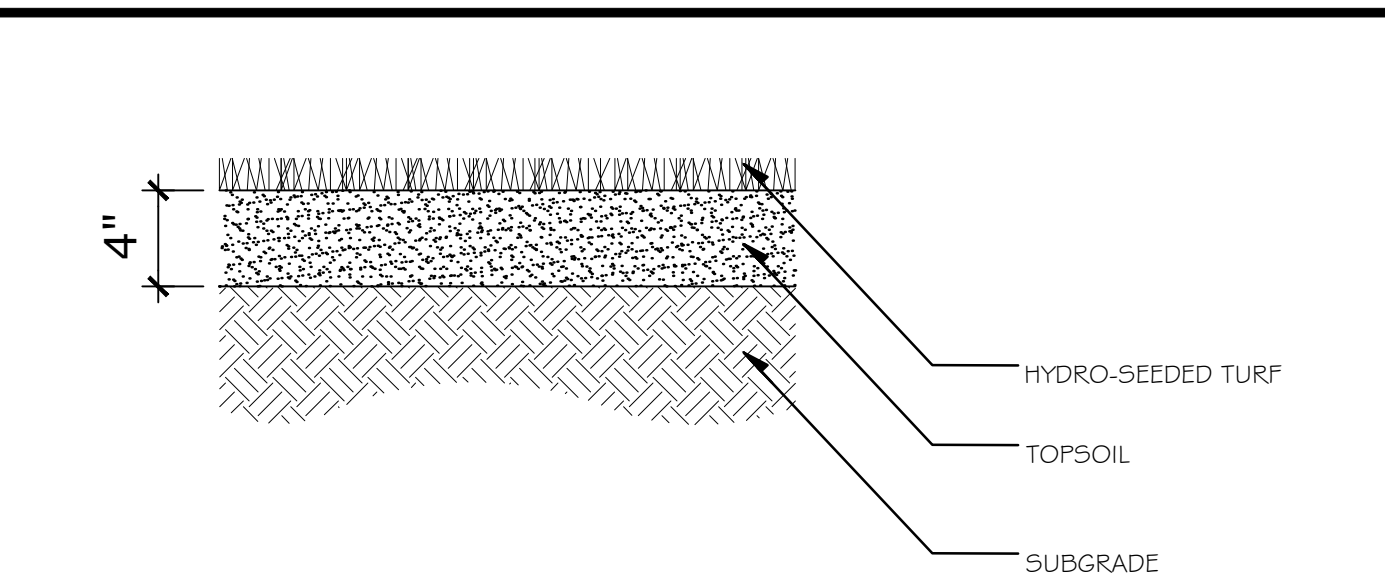
11 TEMPORARY GOOSE PROTECTION FENCE
NTS P-2021-014-WATE-88



10 TREE AND ROOT ZONE PROTECTION
NTS P-2021-014-WATE-14

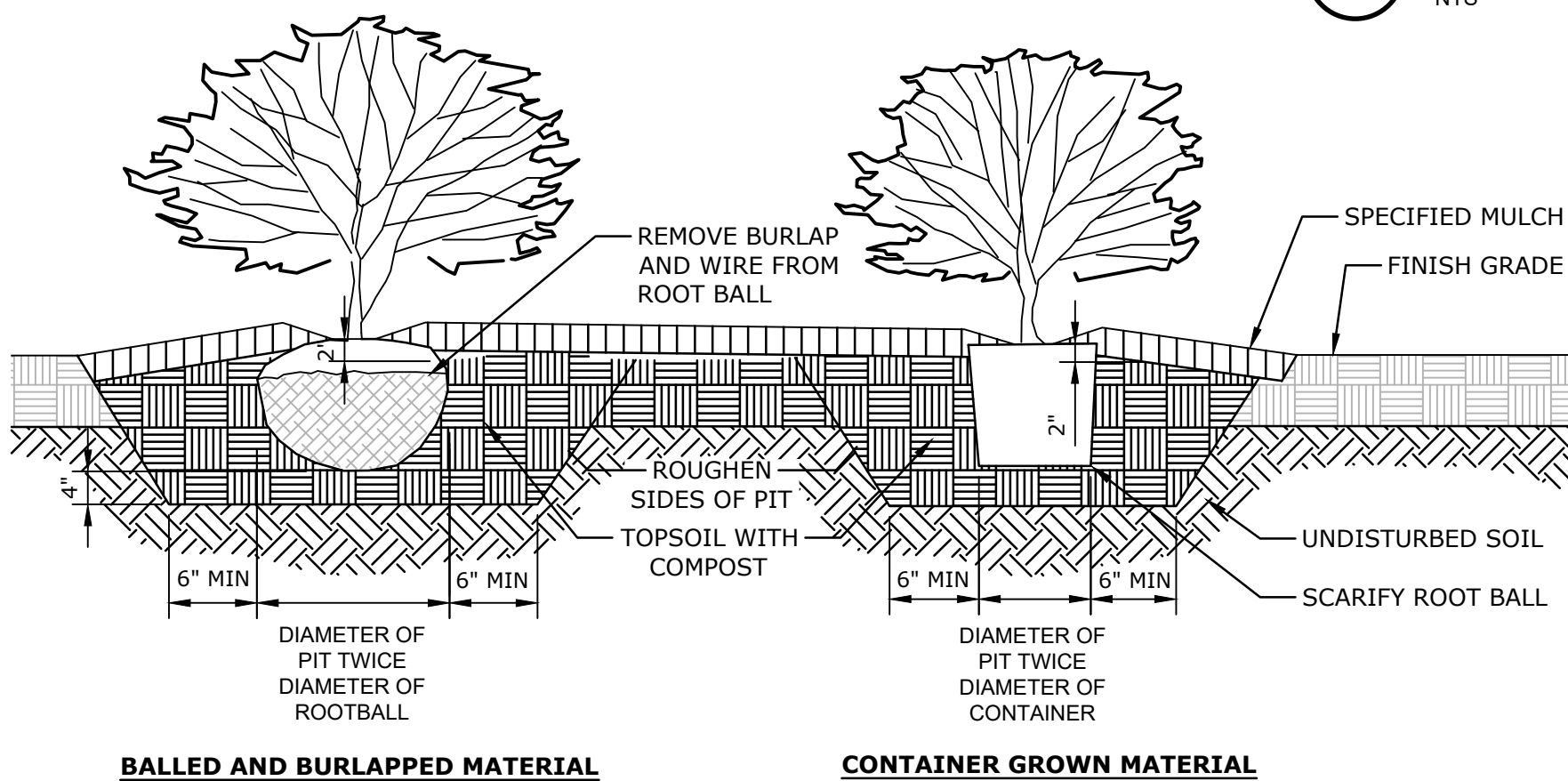


9 TREE PROTECTION FENCING
NTS P-2021-014-WATE-39

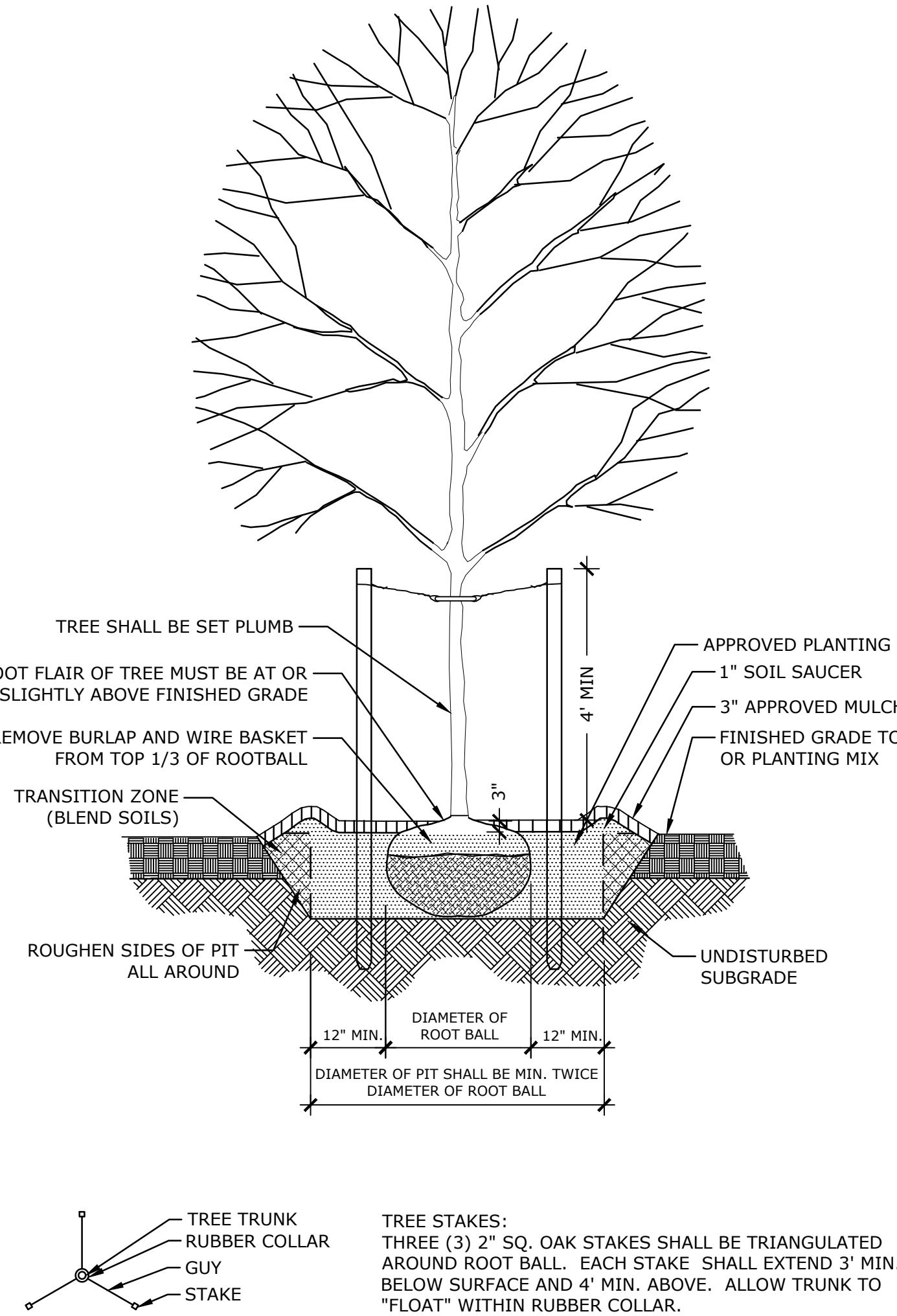


8 HYDRO-SEEDING TURF
NTS P-2021-014-WATE-63

- NOTES:
1. FOR INDIVIDUAL SHRUBS, SET CROWN OF ROOT BALL 2" ABOVE FINISHED GRADE.
 2. FOR MASSED SHRUBS, SET CROWN OF ROOT BALL LEVEL WITH SURROUNDING GRADE.
 3. MULCH ENTIRE AREA OF MASSED SHRUBS.
 4. INSTALL APPROVED MULCH TO ACHIEVE 2" COMPACTED LAYER.

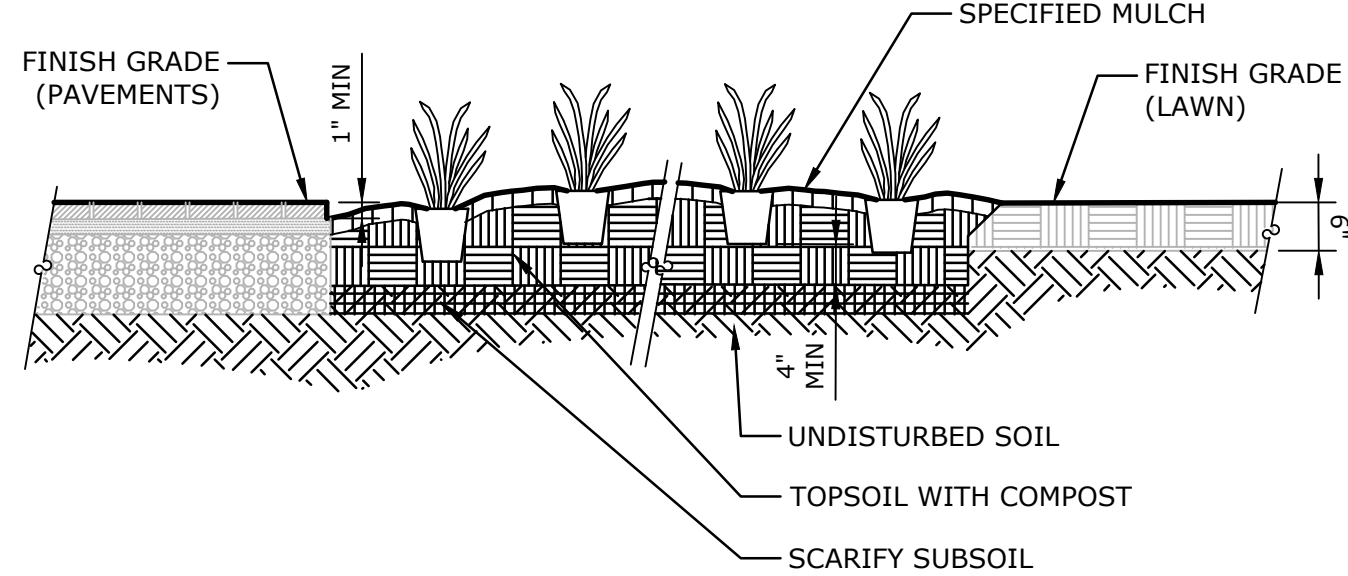


7 SHRUB PLANTING
NTS P-2021-014-WATE-64

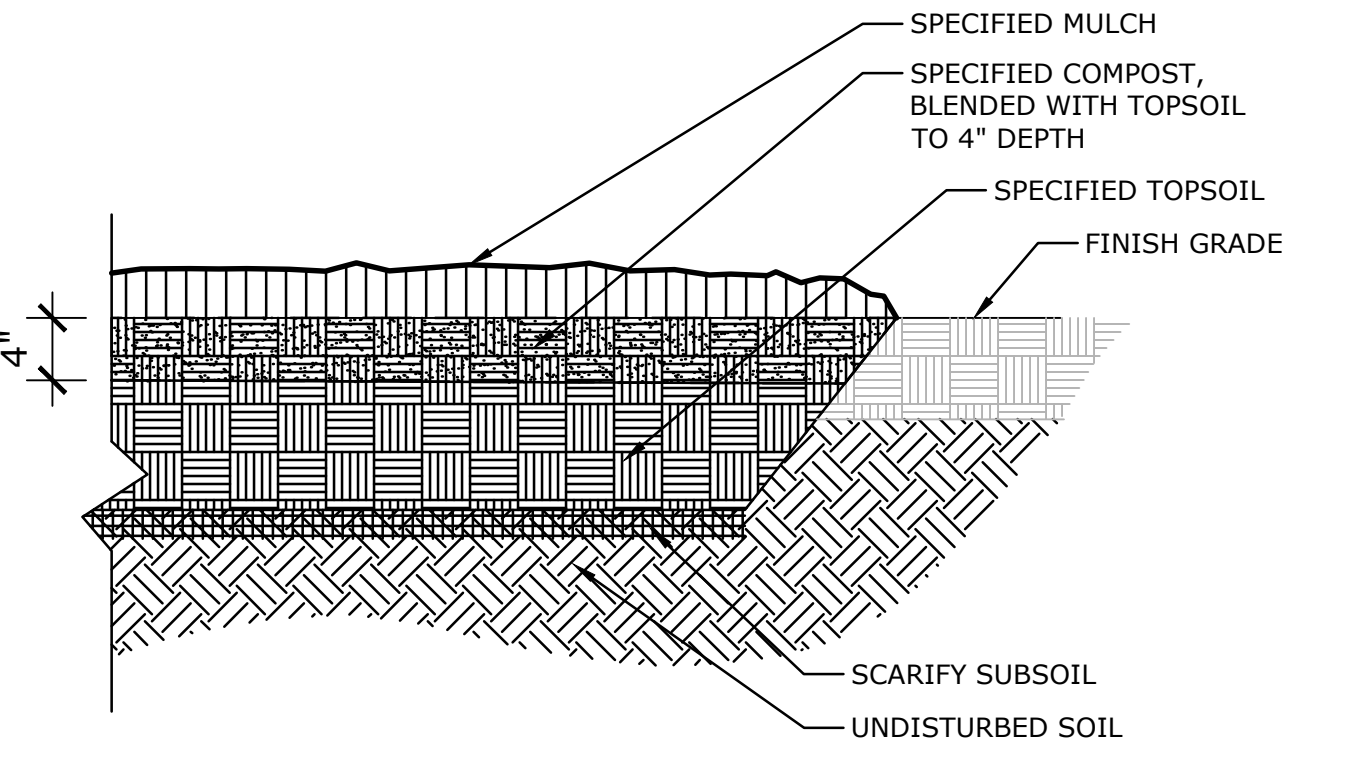


6 TREE PLANTING
NTS P-2021-014-WATE-62

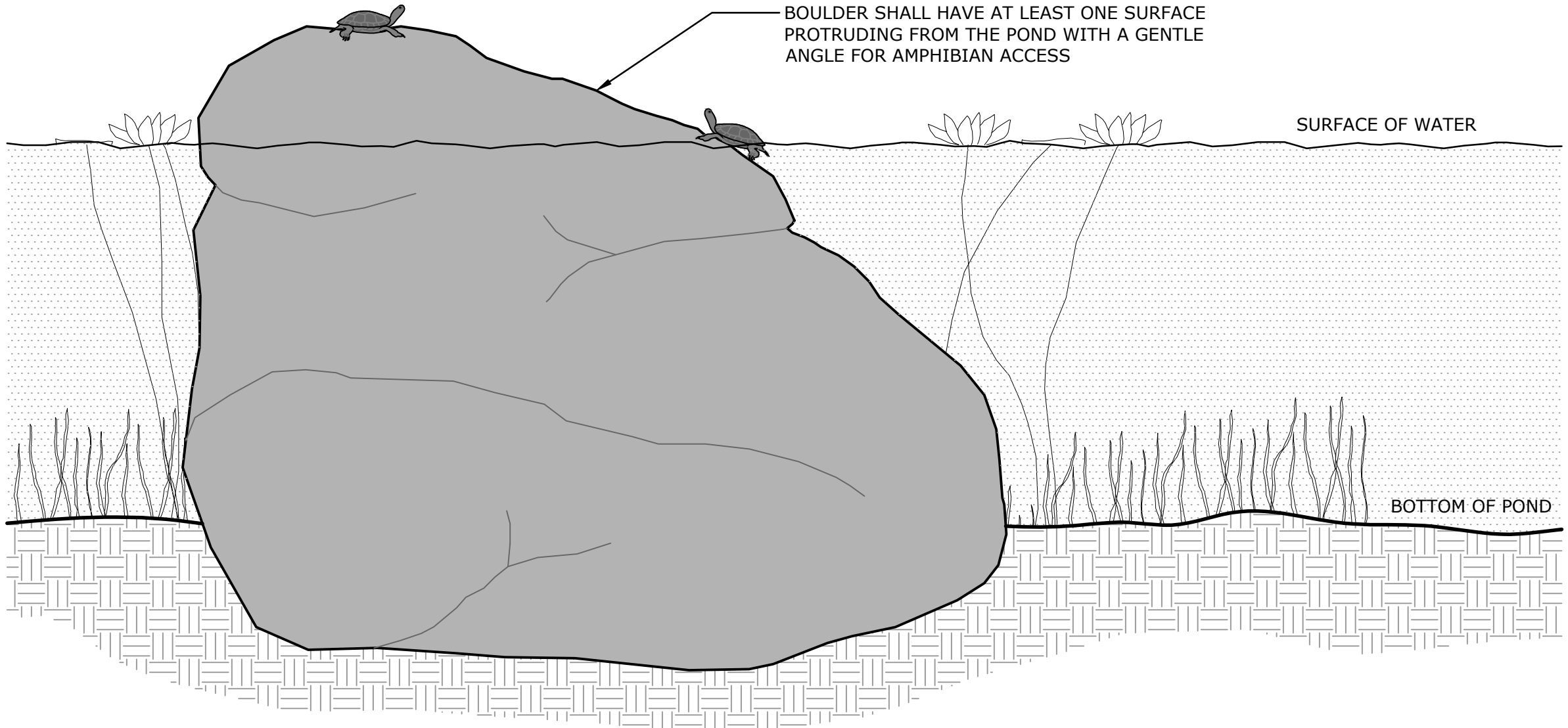
- NOTES:
1. SET CROWN OF ROOT BALL LEVEL WITH SURROUNDING GRADE.
 2. MAINTAIN MINIMUM OF 4" TOPSOIL BELOW EACH INDIVIDUAL PLANT.
- MULCH:
1. INSTALL APPROVED MULCH TO ACHIEVE 2" COMPACTED LAYER.
 2. MULCH ENTIRE AREA OF GROUND COVER, PERENNIALS OR ANNUALS.
 3. MULCH CAREFULLY AROUND EACH PLANT; DO NOT COVER CROWNS OF PLANTS WITH MULCH.



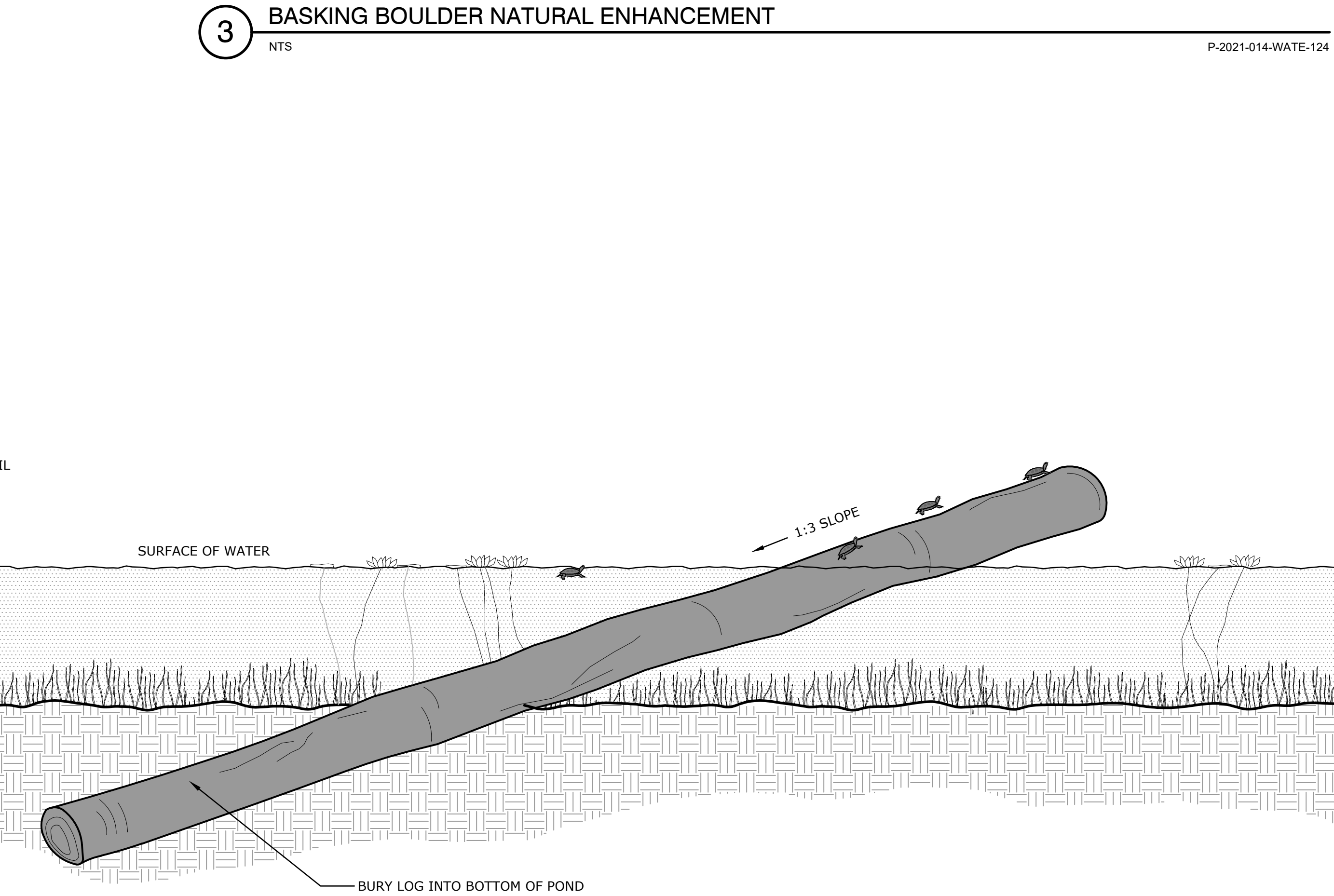
5 CONTINUOUS PLANTING BED
NTS P-2021-014-WATE-65



4 PLANT BED PREPARATION
NTS P-2021-014-WATE-100



3 BASKING BOULDER NATURAL ENHANCEMENT
NTS P-2021-014-WATE-124



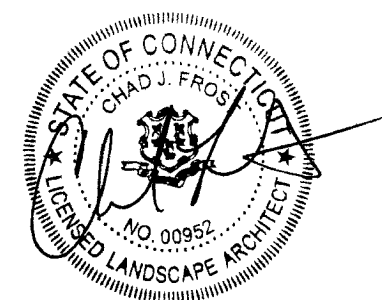
1 BASKING LOG
NTS P-2021-014-WATE-126

WATERFORD CIVIC TRIANGLE

184 Boston Post Road Waterford, CT 06385

LANDSCAPE
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1 HIGH STREET
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(860) 367-7264



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1 P&Z Revisions	11/03/2023

SITE DETAILS

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K+F Project No.	2021014
Drawing No.	

L-12.6