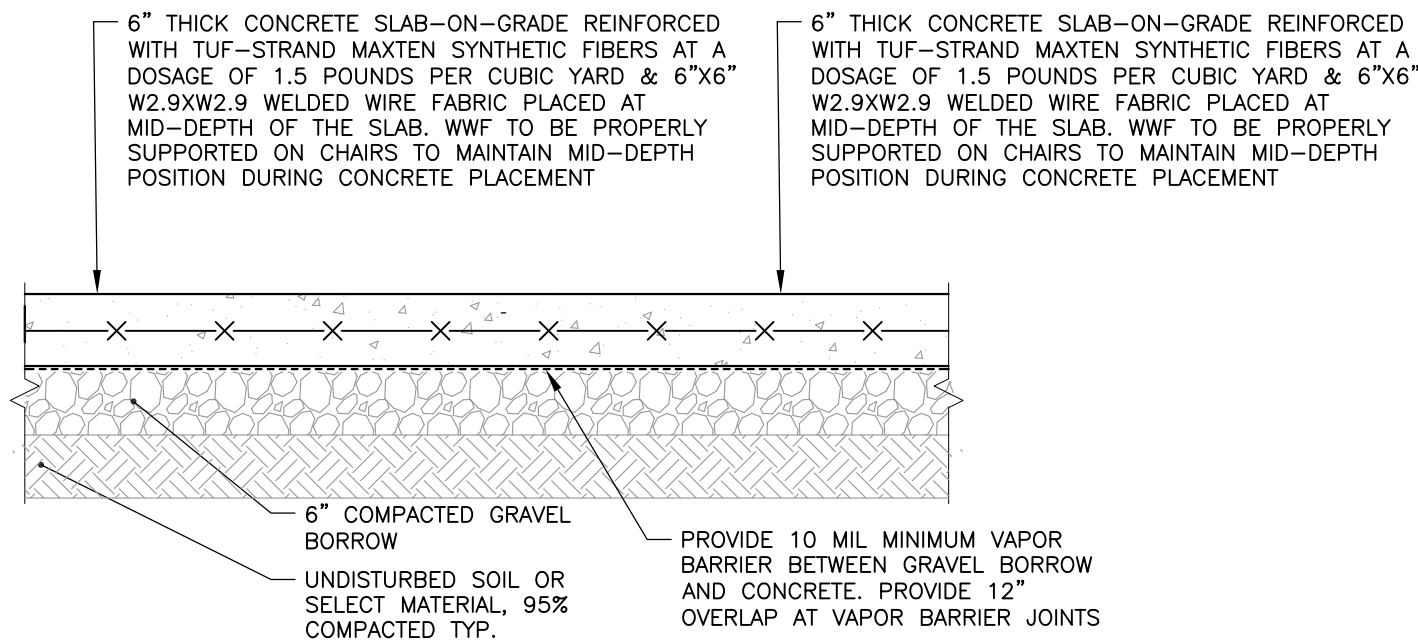
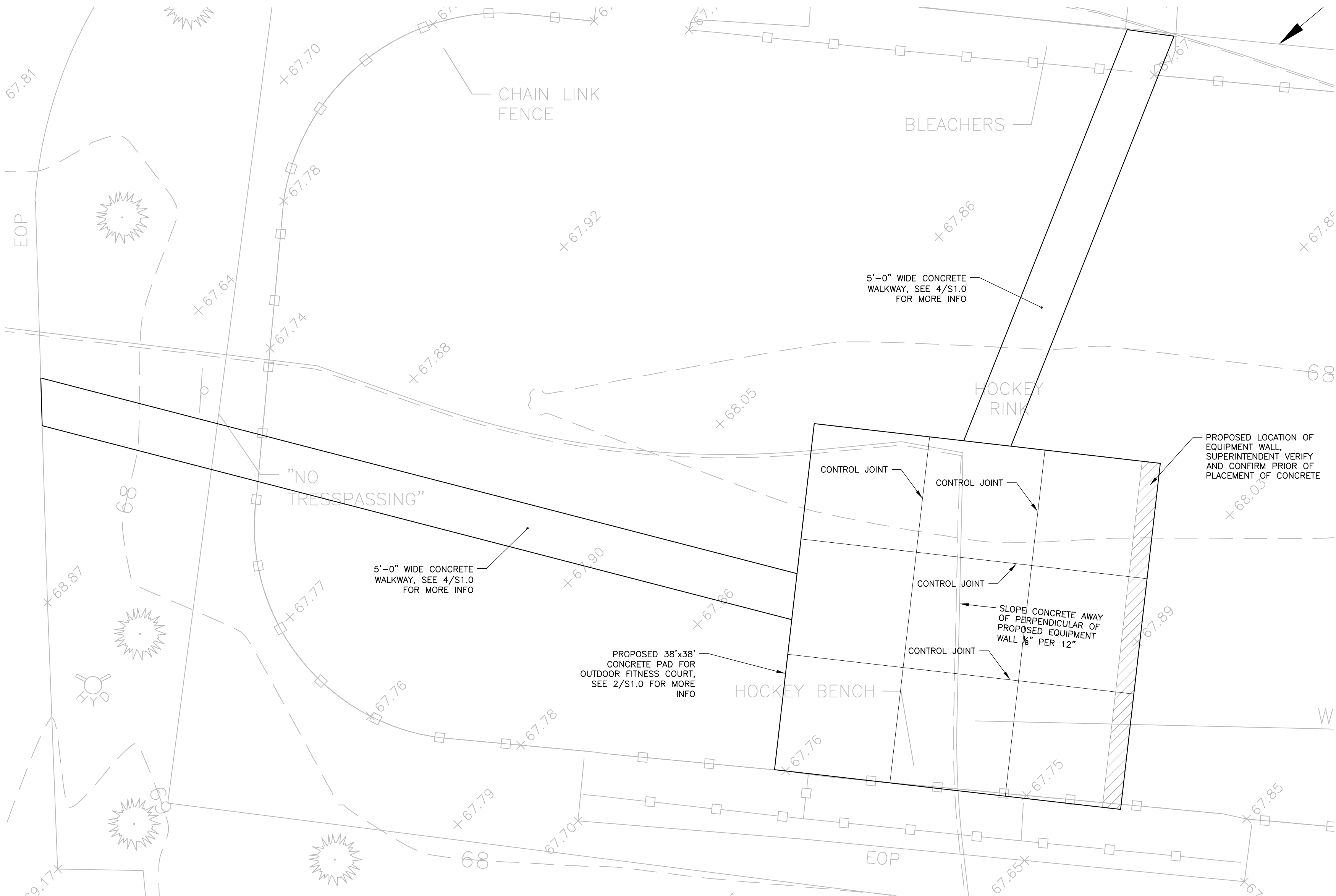
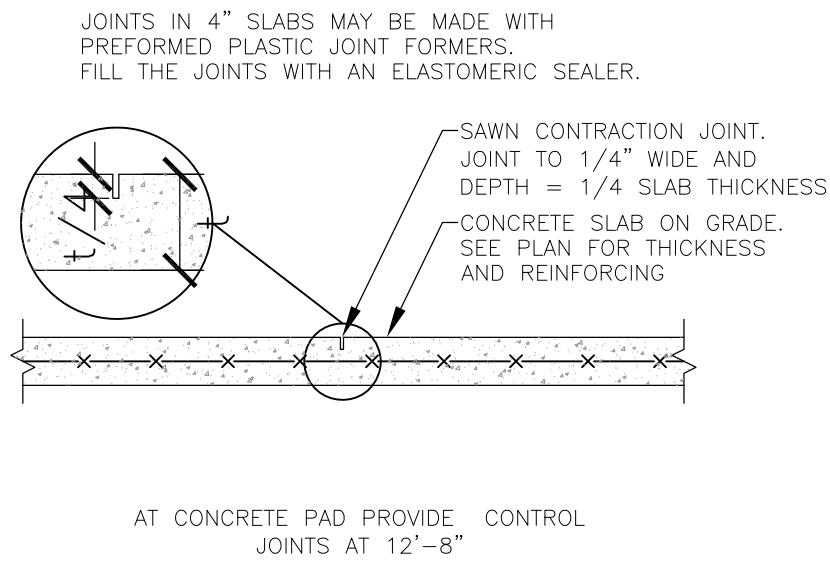


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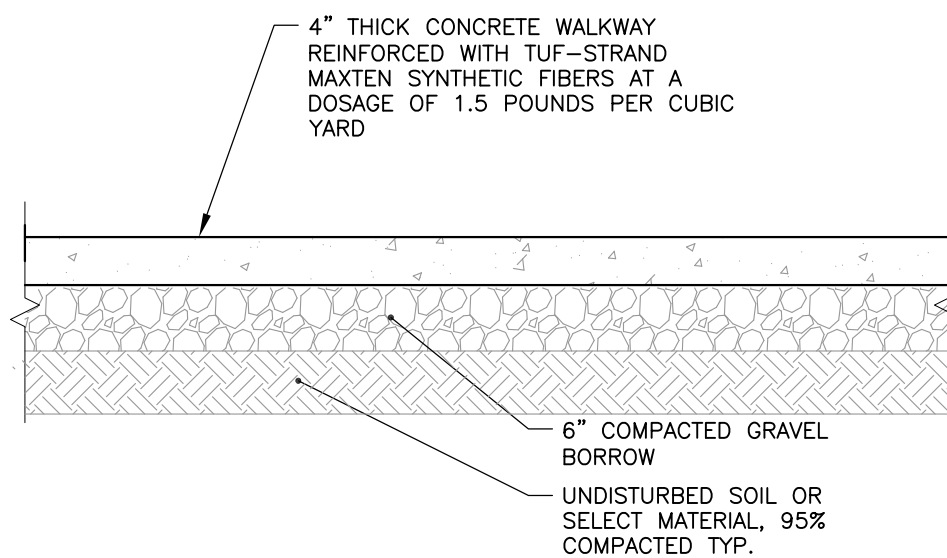
- NOTES:
1. THE FINISHED CONCRETE SURFACE SHALL BE SLOPED AWAY FROM THE EQUIPMENT WALL. THE SURFACE SLOPE SHALL BE 1/8" PER 12".
 2. THE FINISHED CONCRETE SURFACE SHALL HAVE A LIGHT BROOM FINISH.
 3. FLOORING INSTALLATION REQUIRES A MINIMUM 28-DAY CURE TIME.
 4. SPRAYLOCK P3 INDUSTRIAL CONCRETE SEALER IS REQUIRED. APPLY SPRAYLOCK PRODUCT 12 HOURS AFTER THE CONCRETE IS PLACED, PER MANUFACTURER'S RECOMMENDATIONS.
 5. CONTROL JOINTS SHALL BE SAW-CUT TO A DEPTH OF 1/4 THE SLAB THICKNESS WITHIN 12 HOURS OF FINISHING. EXPANSION JOINTS SHALL BE PROVIDED AT INTERSECTIONS AND AGAINST FIXED STRUCTURES.

2
S1.0 CONCRETE PAD SLAB ON GRADE
N.T.S.



AT CONCRETE PAD PROVIDE CONTROL JOINTS AT 12'-8"

3
S1.0 S.O.G. CONTROL JOINT
N.T.S.



- NOTES:
1. PROVIDE EXPANSION JOINTS AT MIN. 30 FT. O.C. WITH PRE-MOLDED JOINT FILLER
 2. PROVIDE CONTROL JOINTS AT 6' O.C.
 3. PROVIDE BROOM FINISH IN DIRECTION PERPENDICULAR TO CURB.
 4. CEMENT CONCRETE SHALL BE 4000 PSI-TYPE II

4
S1.0 CONCRETE WALKWAY
N.T.S.

GENERAL NOTES

1. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CORRECTNESS OF DIMENSIONS AND QUANTITIES AND FOR THE FITTING TO OTHER WORK; FOR WORK TO BE CONFIRMED AND CORRELATED AT THE SITE; AND FOR THE COORDINATION OF THIS WORK WITH ALL OTHER TRADES. THE ENGINEER'S REVIEW OF CONTRACTOR'S SUBMISSIONS DOES NOT RELIEVE CONTRACTOR FROM THESE RESPONSIBILITIES.
2. MEANS METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION AS WELL AS COMPLIANCE WITH OSHA AND OTHER FEDERAL, STATE, OR LOCAL SAFETY LAWS AND REGULATIONS IS THE EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR, THEIR SUBCONTRACTOR(S), SUPPLIERS, CONSULTANTS, AND/OR SERVANTS.
3. WORK NOT INDICATED ON A PART OF THE PLANS BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE REPEATED.
4. CONTRACTOR SHALL DIGSAFE PRIOR TO ANY EXCAVATION.
5. ALL WORK SHALL BE IN ACCORDANCE WITH BID SPECIFICATIONS

GRAVEL BORROW:

1. THE DESIGN OF THE FOUNDATION IS BASED UPON ASSUMED SOIL CONDITIONS.
2. GRAVEL BORROW SHALL CONFORM TO MATERIAL SPECIFICATIONS M1.03.0 (TYPE B).
3. GRAVEL BORROW SHALL BE PLACED WITH A MAXIMUM LIFT THICKNESS OF 6 INCHES. WHERE REQUIRED, TRENCHES SHALL BE BACKFILLED WITH APPROVED GRANULAR MATERIALS AND PROPERLY COMPACTED TO A MINIMUM DENSITY OF 95 PERCENT OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D1557 (MODIFIED PROCTOR). ALL OTHER GRAVEL AREAS SHALL BE COMPACTED TO A MINIMUM DENSITY OF 95 PERCENT OF THE MAXIMUM DENSITY. ANY SETTLEMENTS OR OTHER DEFECTIVE WORK AND MATERIAL SHALL BE PROMPTLY REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. THE DENSITY OF THE COMPACTED FILL SHALL BE DETERMINED BY THE ASTM D6938 NUCLEAR METHOD OR LATEST ASTM STANDARD.
4. CONTRACTOR SHALL SAFEGUARD ALL EXCAVATIONS FROM FREEZING, RAIN, GROUND WATER. NO FOUNDATIONS SHALL BE PLACED IN WATER OR UPON FROZEN GROUND.
5. CONTRACTOR IS SOLELY RESPONSIBLE FOR TEMPORARY SHEETING, SHORING, OR BRACING REQUIRED TO SAFELY EXCAVATE FOR FOUNDATION WORK.

CONCRETE:

1. ALL CONCRETE SHALL BE MIXED, PLACED, CURED, AND TESTED IN ACCORDANCE WITH ACI 318 AND ACI 301 EXCEPT THAT PROVISIONS OF THE SPECIFICATION PREVAIL WHERE MORE STRINGENT.
2. CONTRACTOR SHALL SUBMIT MIX DESIGNS IN ACCORDANCE WITH ACI 318 SECTION 5.3 "PROPORTIONING ON THE BASIS OF EXPERIENCE AND/OR TRIAL MIXTURES" FOR EACH TYPE OF CONCRETE FOR REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO PERFORMING CONCRETE WORK. EACH CONCRETE MIX SHALL UTILIZE THE LARGEST PRACTICABLE NOMINAL MAXIMUM COURSE AGGREGATE IN ACCORDANCE WITH ACI 318 SECTION 3.3. USE OF CALCIUM CHLORIDE CONTAINING AGGREGATES OR ADMIXTURES IS NOT PERMITTED.
3. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS FOR TYPE I CEMENT AND AT 7 DAYS FOR TYPE III (HIGH EARLY STRENGTH) CEMENT:
A. SIDEWALKS (NORMAL WEIGHT) 4,000 PSI
B. ALL OTHER CONCRETE (NORMAL WEIGHT) 4,000 PSI
4. CONCRETE SHALL HAVE THE FOLLOWING NOMINAL DRY DENSITY:
A. NORMAL WEIGHT CONCRETE 145 PCF
5. CONCRETE EXPOSED TO WEATHER AND FOR FOUNDATIONS SHALL HAVE 5% TO 8% AIR-ENTRAINMENT.
6. CONCRETE SLUMP SHALL NOT EXCEED 4 INCHES UNLESS A HIGH-RANGE WATER REDUCING ADMIXTURE IS UTILIZED, WHERE THE MAXIMUM SLUMP MAY BE INCREASED TO 8 INCHES.
7. ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615 (GRADE 60) UNLESS OTHERWISE NOTED. BAR SIZES, NOMINAL BAR DIAMETERS, AND NOMINAL CROSS-SECTIONAL AREAS SHALL CONFORM TO ACI 318.
8. DETAILING OF REINFORCING SHALL CONFORM TO ACI PUB. SP-66, ACI DETAILING MANUAL.
9. MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT IN ACCORDANCE WITH ACI 318, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL NOT INCREASE COVER AS A MEANS TO REDUCE DEVELOPMENT LENGTHS, LD, OF BARS UNLESS APPROVED BY STRUCTURAL ENGINEER.
10. ALL BEAM AND SLAB CONSTRUCTION, INCLUDING UPTURNED BEAMS SHALL BE CAST MONOLITHICALLY WITHOUT HORIZONTAL CONSTRUCTION JOINTS, UNLESS OTHERWISE SHOWN ON THE STRUCTURAL DRAWINGS.
11. CONTRACTOR IS RESPONSIBLE FOR PROPER AND ADEQUATE SHORING OF ALL CONCRETE WORK INCLUDING FORM WORK, TIES, REINFORCING CHAIRS, STANDEES, ETC.
12. LOCATION OF ALL CONSTRUCTION JOINTS SHALL MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND ACI 318. DRAWINGS SHOWING LOCATION AND DETAILS OF PROPOSED CONSTRUCTION JOINTS SHALL BE SUBMITTED AND ACCEPTED PRIOR TO SUBMITTING REINFORCING STEEL SHOP DRAWINGS.
13. ALL WORK SHALL CONFORM TO THE MASSDOT CONSTRUCTION STANDARD DETAILS DATED OCTOBER 2017, WITH THE INFORMATION CONTAINED IN THE WHEELCHAIR RAMP STANDARD DETAILS E107.1.0 TO E107.9.0, AND THE LATEST ADA AND AAB REGULATIONS. THE CONTRACTOR IS HEREBY NOTIFIED THAT THEY ARE ULTIMATELY RESPONSIBLE FOR CONSTRUCTING ALL PROJECT ELEMENTS IN STRICT COMPLIANCE WITH THE CURRENT AAB/ADA RULES, REGULATIONS, AND STANDARDS.
14. THE AAB RULES AND REGULATIONS SPECIFY MAXIMUM SLOPES AND MINIMUM DIMENSIONS REQUIRED FOR CONSTRUCTION ACCEPTANCE. THERE IS NO TOLERANCE ALLOWED FOR SLOPES GREATER THAN THE MAXIMUM SLOPE OR DIMENSIONS LESS THAN THE MINIMUM DIMENSIONS.
15. ALL CEMENT CONCRETE SIDEWALKS AND PEDESTRIAN CURB RAMPS SHALL BE CONSTRUCT WITH FOUR (4) INCHES OF CEMENT CONCRETE OVER EIGHT (6) INCHES OF GRAVEL BORROW.
16. ALL CEMENT CONCRETE SIDEWALKS AT DRIVEWAYS SHALL BE CONSTRUCT WITH SIX (6) INCHES OF CEMENT CONCRETE OVER EIGHT (6) INCHES OF GRAVEL BORROW.
17. ALL CEMENT CONCRETE DRIVEWAYS AND CEMENT CONCRETE PEDESTRIAN CURB RAMPS SHALL INCLUDE 1.5 LBS /CUBIC YARD OF FIBER REINFORCEMENT, TUF-STRAND MAX TEN MACRO-SYNTHETIC FIBERS OR APPROVED EQUAL.
18. ALL PEDESTRIAN CURB RAMP JOINTS AND TRANSITION SECTIONS, WHICH DEFINE GRADE CHANGES, SHALL BE FORMED, STAKED AND CHECKED PRIOR TO PLACING CEMENT CONCRETE. ALL GRADE CHANGES ARE TO BE MADE AT JOINTS. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL PEDESTRIAN CURB RAMPS ARE DESIGNED TO CONFORM TO AAB/ADA REGULATIONS AND ARE APPROVED BY THE CITY. ALL WHEELCHAIR RAMPS SHALL HAVE DETECTABLE WARNING PANELS PERMANENTLY EMBEDDED INTO THE CONCRETE AT THE BOTTOM OF THE RAMP.
19. DETECTABLE WARNING PANELS SHALL BE INSTALLED AS SHOWN ON THE PLANS AND AS DETAILED IN MASSDOT CONSTRUCTION STANDARDS DETAIL E 107.6.5, DATED OCTOBER 2017. THE PANEL SHALL CONFORM TO ADA REQUIREMENTS, AND COLOR SHALL BE BRICK RED TO MATCH CITY STANDARD.
20. SIDEWALKS AND DRIVEWAY APRONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH REQUIREMENTS OF THE LATEST STANDARD SPECIFICATIONS. EXPANSION FILLER SHALL ALSO BE USED AT JOINTS AGAINST BUILDINGS, WALLS, OR OTHER HARD OBJECTS. THE CONTRACTOR SHALL SUBMIT JOBS MIX FORMULAS TO THE CITY FOR APPROVAL PRIOR TO COMMENCING THE WORK. IN GENERAL, THE CONCRETE SHALL HAVE THE 4000 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS FOR TYPE II CEMENT, A NORMAL WEIGHT OF 145 POUNDS /CUBIC FEET (PCF) NOMINAL DRY DENSITY, AND 6.5% ± 1.5% AIR ENTRAINMENT. THE CONCRETE SLUMP SHALL NOT EXCEED 5 INCHES. DELIVERY SLIPS SHALL BE FURNISHED TO THE FIELD REPRESENTATIVE PRIOR TO COMMENCING THE WORK. FIELD REPRESENTATIVE MAY AT ANY TIME STOP OR RESTRICT CONCRETE PLACING IF THE MIX APPEARS TO NOT MEET SPECIFICATIONS OR APPROPRIATE SLIPS ARE NOT PROVIDED.

MATERIALS AND LABOR

ITEM #	ITEM DESCRIPTION	UNIT	QUANTITY
120.1	UNCLASSIFIED EXCAVATION	CY	600
151.	GRAVEL BORROW	CY	43
701.	CEMENT CONCRETE WALKWAY	CY	10
701.2	CEMENT CONCRETE PAD	CY	30
751.	LOAM BORROW	CY	300
765.	SEEDING	SY	1700
767.8	COMPOST FILTER SOCK	FT	500

Veterans Memorial Park
Fitness Concrete Pad
123 Milk Street
Methuen, MA 01844
PLAN, SPECS, AND DETAILS

Project No. _____
Date: 02/20/2025
Designed by: TGL
Drawn by: TGL
Checked by: TGL
Scaled: As Shown

DWG NO.
S1.0