

GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING ABOVE GROUND, UNDERGROUND, AND ON THE SURFACE STRUCTURES AND UTILITIES AGAINST THE CONSTRUCTION OPERATION THAT MAY CAUSE DAMAGE

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2. 12/17/2025 ALL BE RESPONSIBLE FOR ALL REQUIRED TESTS TO BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY APPROVED BY THE ENGINEER.

3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 24 HOURS PRIOR TO ANY REQUIRED INSPECTIONS AND SHALL SUPPLY ALL EQUIPMENT NECESSARY FOR INSPECTION AND/OR TEST.

4. THE CONTRACTOR SHALL GIVE ADEQUATE NOTIFICATION TO ALL AFFECTED UTILITY OWNERS FOR REMOVAL, RELOCATION AND ALTERATION OF THEIR EXISTING FACILITIES.

5. WHERE ENCOUNTERED, UNSUITABLE MATERIAL SHALL BE REMOVED TO A DEPTH AN AREA DETERMINANT BY THE ENGINEER AND BACKFILLED WITH CLEAN GRANULAR SAND OR SELECT MATERIAL APPROVED BY THE ENGINEER. BACKFILLING SHALL BE IN LAYERS NOT GREATER THAN 12" THICKNESS AND COMPACTED TO 98 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY AASHTO T180. FILL UNDER BUILDING SHALL BE PLACED IN ACCORDANCE WITH SOIL ENGINEER'S RECOMMENDATIONS.

6. ALL WORK SHALL BE PERFORMED IN A WORKMANSHIP MANNER AND SHALL MEET WITH ALL APPLICABLE CITY, COUNTY, STATE, AND FEDERAL REGULATIONS AND/OR CODES, INCLUDING OSHA.

7. THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND/OR LICENSES TO COMMENCE CONSTRUCTION.

8. ALL CONCRETE SHALL DEVELOP A 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI OR OTHERWISE NOTED.

9. ALL REINFORCING STEEL SHALL CONFORM TO ASTM-615 AND HAVE A TENSILE STRENGTH OF 60,000 PSI OR OTHERWISE NOTED.

10. THE CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR A PERIOD OF ONE YEAR FROM THE DATE THAT PROJECT HAS BEEN ACCEPTED. ALL FAULTY CONSTRUCTION AND/OR MATERIALS DURING FORESAID PERIOD SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

11. ALL DRAINAGE SYSTEM SHALL BE CONSTRUCTED IN ACCORDANCE TO POMPANO BEACH & BROWARD COUNTY REQUIREMENTS.

DRAINAGE

- ALL DRAINAGE STRUCTURES SHALL BE CONSTRUCTED AS PER DETAIL AND IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
- PIPE TRENCH SHALL BE DRY WHILE PIPE IS BEING LAID AND TO BE BEDDED PER DETAIL AND IN CONFORMANCE WITH SECTION 430, FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
- PIPE TRENCHES TO EXCAVATED AND BACKFILL IN ACCORDANCE WITH SECTION 125, FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
- THE FOLLOWING PIPES SHALL CONFORM WITH THE APPROPRIATE FOLLOWING SECTIONS OF FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION:
 1. REINFORCED CONCRETE PIPE (RCP) – SECTIONS 430 AND 941
 2. CORRUGATED ALUMINUM PIPE (CAP) – SECTIONS 430 AND 945
 3. CORRUGATED STEEL PIPE (CMP) – SECTIONS 430 AND 943
- ALL CORRUGATED PIPES SHALL BE INSTALLED WITH MAXIMUM LENGTHS IN ORDER TO MINIMIZE JOINTS.
- ALL CONNECTION BANDS, FOR CORRUGATED PIPES, SHALL BE CORRUGATED, LAP-TYPE, IN CONFORMANCE WITH AASHTO M-196, AND TO BE MADE WATER-TIGHT BY USING A GASKET AT LEAST SIX (6) INCHES WIDE BY 3/4" THICK.
- HDPE PIPE MATERIALS:
HDPE PIPES 12" THROUGH 36" NOMINAL DIAMETER:
TYPE "S" SMOOTH INTERIOR PIPE IN CONFORMANCE WITH AASHTO M294.
NOTE: CORRUGATIONS SHALL BE ANNULAR CONFIGURATION ONLY.
HDPE PIPES 42" AND 48" NOMINAL DIAMETER:
TYPE "D" SMOOTH INTERIOR, SMOOTH EXTERIOR PIPE IN CONFORMANCE MP46-95 TYPE "D".
- ALL SOD LAID WITHIN SLOPES OF BERMS, DRAINAGE SWALES, AND RETENTION AREAS SHALL BE PINNED PER ENGINEERS DIRECTION.
- ALL DRAINAGE CONSTRUCTION SHALL CONFORM TO BROWARD COUNTY, FDOT AND THE CITY OF POMPANO SPECIFICATIONS.
- ALL PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC.
- ALL ROOF DRAINS SHALL BE CONNECTED TO STRUCTURES BY THE UNDERGROUND CONTRACTOR.

ROADWAY

- SUBGRADE SHALL BE AS SHOWN ON SECTION.
- BASE SHALL BE AS SHOWN ON SECTION, HAVE A MINIMUM LBR 100 AND TO BE COMPACTED TO 98 PERCENT OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTOT-180.
- PRIME COAT SHALL BE APPLIED AT THE RATE OF .15 GALLON PER SQ. YARD, WHERE REQUIRED, TACK SHALL BE APPLIED AT THE RATE OF . .08 GALLON PER SQUARE YARD.
- THE CONTRACTOR IS TO SUBMIT ALL REQUIRED TESTS ON SUBGRADE, BASE AND SURFACE COURSE MATERIAL PRIOR TO ANY REQUEST FOR PAYMENT.
- IF ANY TEST FAILS TO MEET THEIR SPECIFICATIONS, THE CONTRACTOR, AT HIS EXPENSE, SHALL CORRECT ALL DEFICIENT WORK AND SUBMIT TEST RESULTS INDICATING COMPLIANCE WITH THESE SPECIFICATIONS PRIOR TO ANY REQUEST FOR PAYMENT.
- ALL UNDERGROUND UTILITIES WITHIN ROADWAY CONSTRUCTION SHALL BE INSTALLED PRIOR TO ROAD CONSTRUCTION.
- ALL ROADWAY CONSTRUCTION AND MATERIAL SHALL CONFORM TO THE APPLICABLE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
- ALL CURBING, AND RAISED SIDEWALK IF SHOWN, SHALL BE CONSTRUCTED PRIOR TO ASPHALT PAVING.

CONSTRUCTION INSPECTION CHECKPOINTS

- ROADWAY: THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR INSPECTION AT THE FOLLOWING CHECKPOINTS:
- PRIOR TO ANY DEVIATION FROM THE APPROVED GRADING, PAVING, AND DRAINAGE PLANS.
 - PRIOR TO BACK FILLING OF TRENCHES CONTAINING HYDRAULIC CONDUITS, SO THAT JOINTS MAY BE INSPECTED.
 - UPON COMPLETION OF THE SUBGRADE COMPACTION.
 - AT THE TIME OF DELIVERY OF BASE MATERIAL.
 - UPON COMPLETION OF THE BASE AND PRIOR TO PRIMING
 - IMMEDIATELY PRIOR TO AND DURING THE FIRST APPLICATION OF THE MIXES WEARING SURFACE.
 - UPON COMPLETION OF CONSTRUCTION A FINAL INSPECTION MAY BE MADE WITH THE CONTRACTOR.

STRIPING

- PAVEMENT STRIPING FOR STD PARKING STALLS SHALL BE TRAFFIC PAINT IN ACCOR W/ POMPANO BEACH REQUIREMENTS.

CONSTRUCTION STANDARDS & PROCEDURES

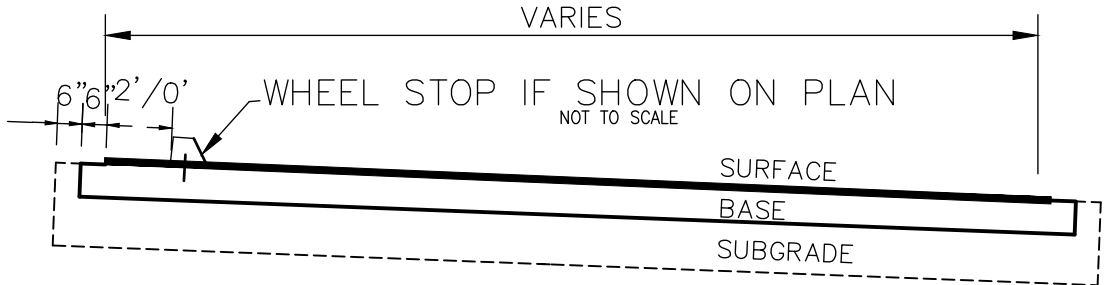
- FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, LATEST EDITION, SHALL APPLY TO THE DESIGN AND CONSTRUCTION OF FACILITIES ON THIS SET OF ENGINEERING PLANS, UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE.
- FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, SHALL APPLY TO THE DESIGN AND CONSTRUCTION OF FACILITIES ON THIS SET OF ENGINEERING PLANS, UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE.
- THE FHA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION, AND THE BROWARD COUNTY MANUAL SHALL APPLY TO THE DESIGN AND CONSTRUCTION OF PAVEMENT MARKINGS, SIGNING, RPM'S, AND GEOMETRIC ON THIS SET OF ENGINEERING PLANS, UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE.
- TRAFFIC CONTROL DEVICES (SIGNS, SIGNALS, MARKINGS, ETC.) SHALL BE IN ACCORDANCE WITH FHA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION, UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE.
- CLEARING, GRUBBING, DEMUCKING ETC.– ALL STUMPS, ROOTS, LARGE ROCKS, CONCRETE, AND OTHER DELETERIOUS OR UNDESIRABLE MATERIALS LOCATED WITHIN THE TO 48 INCHES OF SUB GRADE, SHALL BE REMOVED FROM RIGHTS OF WAY, EASEMENTS, OR OTHER AREAS THAT WILL BE DEVELOPED WITH ROADS, ALLEYS, PARKING, SIDEWALKS, OR SIMILAR "HORIZONTAL" IMPROVEMENTS. SIMILAR MATERIAL REMOVAL IS REQUIRED WITHIN THE LIMITS OF UTILITY TRENCHING OPERATIONS.
- ALL EXCAVATED STUMPS, ROOTS, LARGE ROCKS, CONCRETE, AND OTHER DELETERIOUS OR UNDESIRABLE MATERIALS, INCLUDING ANY CREATED MULCH MATERIAL, SHALL BE COLLECTED AND DISPOSED OF AT AN APPROPRIATE FACILITY-LOCATION OFF-SITE, UNDER NO CIRCUMSTANCES SHALL ANY SUCH MATERIAL BE USED FOR FILL, OR OTHERWISE DISPOSED OF OR BURIED ON SITE, UNLESS SPECIFICALLY APPROVED BY THE COUNTY ENGINEER.
- MUCK & PEAT– IF MUCK AND PEAT ARE IDENTIFIED WITHIN RIGHTS OF WAY, EASEMENTS, OR OTHER AREAS THAT WILL BE DEVELOPED WITH ROADS, ALLEYS, PARKING SIDEWALKS, OR SIMILAR "HORIZONTAL" IMPROVEMENTS, SAID MATERIAL SHALL BE REMOVED (TO 10 FEET OUTSIDE OF THE DEVELOPED AREAS) AND SAID MATERIAL SHALL BE DISPOSED OF OFF-SITE, AND CLEAN GRANULAR COMPACTED BACKFILL SHALL BE USED TO REPLACE THE REMOVED MATERIAL.
- IF HARDPAN LAYER MATERIAL IS ENCOUNTERED IN A LOCATION WITH A PROPOSED SWALE OR RETENTION AREAS, THE HARDPAN MATERIAL SHALL BE REMOVED AND REPLACED WITH CLEAN GRANULAR COMPACTED BACKFILL.
- MINIMUM BACKFILL, SUB GRADE, AND BASE ROCK COMPACTION (DENSITY) REQUIREMENTS ARE DEFINED BELOW.
 - BACKFILL WITHIN STREET OR ALLEY RIGHT OF WAY SHALL BE COMPACTED TO 98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
 - BACKFILL WITHIN AREAS THAT WILL NOT BE IMPROVED WITH STREETS, ALLEYS, PARKING AREAS, SIDEWALKS, STRUCTURES ETC. SHALL BE COMPACTED TO A MINIMUM OF 93% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
 - LANDSCAPE BERM AND RETENTION AREA FILL SHALL BE COMPACTED TO A MINIMUM OF 91% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
 - UTILITY TRENCH BACKFILL SHALL BE COMPACTED TO 98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
 - SUB GRADE MATERIAL (MINIMUM OF 12 INCHES) FOR SIDEWALKS, ASPHALT PATHS, ROADS, ALLEYS ETC., SHALL BE COMPACTED TO 98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
 - BASE MATERIAL FOR ROADS, ASPHALT PATHS, ALLEYS ETC., SHALL BE COMPACTED TO 98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.

BACKFILL PLACEMENT, DENSITY TESTING AND SOIL STABILIZATION REQUIREMENTS:

- TYPICAL BACKFILL LIFTS SHALL NOT EXCEED 12 INCHES.
- VERTICAL DISTRIBUTION OF DENSITY TESTING –NUCLEAR DENSITY COMPACTION TESTS ARE TO BE TAKEN ON EVERY LIFT PLACED (12" MAXIMUM THICKNESS), STARTING WITH THE SOIL AT THE SPRINGLINE OF UTILITY OR AT BASE OF ANY STRUCTURE, AND PROCEEDING UPWARD TO GRADE, AT THE LOCATIONS DEFINED IN ITEM 3 BELOW. IF THICKER LIFTS ARE APPROVED AND IMPLEMENTED, DENSITY TESTING SHALL BE PERFORMED VIA DIG DOWNS TO SUFFICIENT DEPTH TO TEST EACH 12 INCHES FOR THE FULL THICKNESS OF LIFT.
- SOIL STABILIZATION –THE SOILS REQUIRE PROPER SOIL STABILIZATION MIX DESIGNS AND STRINGENT QUALITY CONTROL OF FIELD MIXING APPLICATION OF THE DESIGN MIX IN ORDER TO OBTAIN AN EFFECTIVE STABILIZE SOIL, PARTICULARLY IF LIME SLUDGE MATERIAL IS USED. CONSTRUCTION SPECIFICATIONS SHOULD REQUIRE THAT THE SOIL BE SAMPLED AND MIX DESIGN(S) PREPARED AND TESTED BY A TESTING LAB. THE MIX DESIGN SHOULD BE SPECIFIED OR OTHERWISE ADMINISTERED CLOSELY DURING FIELD INSTALLATIONS OR CONSTRUCTION, INCLUDING PERFORMANCE OF FREQUENT LBR TESTS. STABILIZED SUBGRADE SHALL, AT A MINIMUM, BE TESTED TO MEET A MINIMUM OF LBR 40 VALUE, IN ADDITION TO FBV 75.
- HORIZONTAL DISTRIBUTION OF DENSITY TESTING –DENSITY TESTING SHALL BE PERFORMED AT THE FOLLOWING MINIMUM LOCATIONS/HORIZONTAL SPACING PER THE VERTICAL DISTRIBUTION NOTED IN ITEM 2 ABOVE:
 - PIPE TRENCHES –TESTS SHALL BE PERFORMED AT RANDOMLY SELECTED LOCATIONS WITHIN EACH 300 FOOT INTERVAL (MAXIMUM) ALONG THE LENGTH OF A PIPE INSTALLATION, AND BETWEEN EACH SET OF STRUCTURES SEPARATED BY LESS THAN 300 FEET. AT LEAST ONE TEST SHALL BE PERFORMED FOR EVERY 12 INCHES, STARTING WITH THE FIRST TEST PERFORMED AT SPRINGLINE (COVERING THE 12" LAYER BELOW SPRINGLINE ELEVATION).
 - STRUCTURES –TESTS SHALL BE PERFORMED AT EACH MANHOLE OR DRAINAGE STRUCTURE. AT LEAST ONE TEST SHALL BE PERFORMED FOR EVERY 12 INCHES, STARTING WITH THE FIRST TEST PERFORMED AT BASE OF STRUCTURE (COVERING THE 12" LAYER BELOW BASE ELEVATION). TESTS SHOULD ALTERNATE FROM CORNER TO CORNER OR SIDE TO SIDE AROUND STRUCTURE WITH EACH 12 INCH INCREMENT. C.
 - SUBGRADE –TESTS SHALL BE PERFORMED AT RANDOMLY SELECTED LOCATIONS WITHIN EACH 300 FOOT INTERVAL (MAXIMUM) ALONG THE LENGTH OF ROADWAY, SIDEWALK OR PATHWAY, AND EVERY 6000 SQUARE FEET OF PARKING AREA.
 - BASE ROCK –TESTS SHALL BE PERFORMED AT RANDOMLY SELECTED LOCATIONS WITHIN EACH 300 FOOT INTERVAL (MAXIMUM) ALONG THE LENGTH OF THE ROADWAY, SIDEWALK OR PATHWAY, AND EVERY 6000 SQUARE FEET OF PARKING AREA.
 - ROAD CROSSINGS –TESTS SHALL BE PERFORMED FOR EACH 12 INCH LIFT WITHIN ANY OPEN CUT ROAD CROSSING LOCATION.
 - ASPHALT –ROADWAY AND PARKING AREA ASPHALT SHALL BE TESTED TO MEET A MINIMUM OF 94% OF THE MAXIMUM LABORATORY DENSITY FOR THE ASPHALT MIX DESIGN. TESTING MAY BE DONE BY CORE SAMPLING OR NUCLEAR GAUGE DENSITY TESTING. FOR ROADWAY ASPHALT, TESTING SHALL BE AT MAXIMUM 300 LINEAR FOOT AND 6000 SQUARE FOOT INTERVALS. FOR PARKING AREAS, DENSITY TESTING SHALL BE BASED ON MAXIMUM 6000 SQUARE FOOT INTERVALS. SHOULD DENSITY TESTING INDICATE FAILURE TO MEET THE 94% MINIMUM DENSITY, THEN ADDITIONAL LOCALIZED TESTING WILL BE REQUIRED AROUND THE FAILURE LOCATION TO DETERMINE THE EXTENT OF DEFICIENT ASPHALT DENSITY OR TO DETERMINE THAT THE FAILURE WAS LOCALIZED SPECIFIC CONDITION ONLY. THE TOWN RESERVES THE RIGHT TO REQUEST ADDITIONAL TESTING BASED ON PHYSICAL OBSERVATION OF THE ASPHALT INSTALLATION OR SURFACE CONDITIONS. CORE SAMPLES WILL BE REQUIRED TO SUBSTANTIATE THE SPECIFIED COMPACTED ASPHALT THICKNESS HAS BEEN CONSTRUCTED. FOR ROADWAYS, THE TOWN RESERVES THE RIGHT TO REQUEST ROLLING STRAIGHTEDGE TESTING ON THE TRAVEL LANES, IN ACCORDANCE WITH FDOT SPECIFICATIONS."

CONCRETE SPECIFICATIONS

- Concrete shall reach comp strength of 3,000 psi min in 28 days. Minimum cement content of 470 lbs of portland cement Type II per ASTM C-150 & 120 LB of fly ash /AE per cy and admixtures shall conform to ASTM C-494. Water/cement=0.5 MAX.
- Slump and cylinder tests (ASTM C-31) shall be made by an independent testing laboratory. Provide 4 tests with each concrete pour and/or each 50 YD of concrete placed. Slump @ pour shall be 5 IN max. (6" for pump mix). No water is to be added on the job site.
- Contractor shall submit the mix design to Engineer for review.



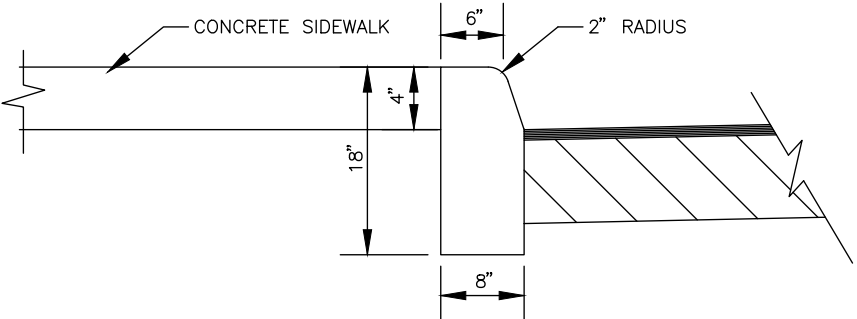
CONC SLAB
SURFACE: 6" SLAB W/6X6 W1.4XW1.4 WWM OR FIBER MESH
W/1.5" SAW-CUTS @ 12' MAX O.C. E.W.
SAW CUT SLAB DIM'S PROPORTION SHALL BE 1.5:1MIN
ALL JOINTS SHALL BE IN ACCORD W/ FDOT INDEX 305
SUBGRADE: 12" STABILIZED SUBGRADE LBR 40

CONC SIDEWALK
SURFACE: 4" MINIMUM 3KSI
SUBGRADE: 12" COMP
OPTIONAL FLEXIBLE PAVEMENT / ROW IMPROVEMENTS
SURFACE: 2" TYPE SP-12.5 (2 1" LIFTS)
BASE: 8" LIMEROCK / COQUINA ROCK COMP MIN LBR 100
SUBGRADE: 12" STABILIZED SUBGRADE LBR 40

CONCRETE SPECIFICATIONS

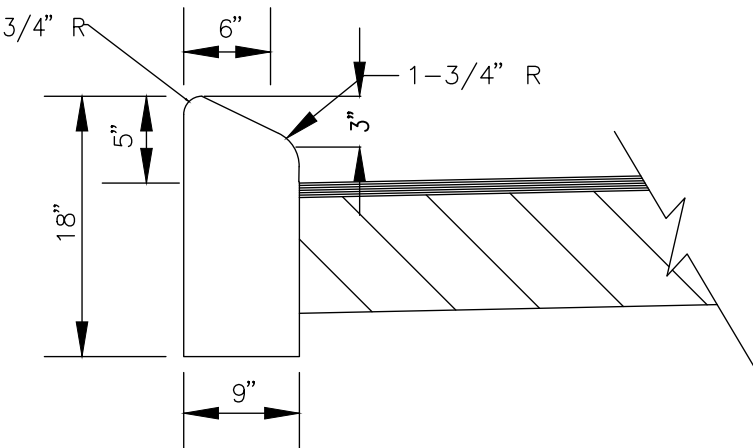
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- Contractor shall submit the mix design to Engineer for review.

PAVEMENT TYP SECTION



- NOTES:
- SEE F.D.O.T. INDEX NO. 300 FOR ADDITIONAL INFORMATION.
 - CONCRETE TO BE A MINIMUM OF 3000 PSI CONCRETE AT 28 DAYS
 - CURB TO BE IN PLACE PRIOR TO SURFACE COURSE BEING PLACED.
 - SAWCUTS TO BE MADE AT 10' O.C. THROUGHOUT CURB CONST.
 - SIDEWALK TO BE POURED AFTER CURB CONSTRUCTION
 - SEE SIDEWALK DETAIL FOR JOINT PLACEMENT

RAISED SIDEWALK DETAIL



SEE F.D.O.T. INDEX NO. 520-001 FOR ADDITIONAL INFORMATION.
CONCRETE TO BE A MINIMUM OF 3000 PSI CONCRETE AT 28 DAYS
CURB TO BE IN PLACE PRIOR TO SURFACE COURSE BEING PLACED.
SAWCUTS TO BE MADE AT 10' O.C. THROUGHOUT CURB CONST.

B-CURB

REVISIONS

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Grading, Paving & Drainage Details	DESIGNED BY	JBI	SCALE	NTS	DATE	10-25-2025	DRAWN BY	JBI	JOB NO.	2510-1525

SEAL
FR # 6986 SHEET NO. C-200