50th STREET AND DRAINAGE IMPROVEMENTS (ALLEN STREET TO CAMP ROBINSON ROAD)

CITY OF NORTH LITTLE ROCK

DATE: JUNE 2019

THE INFORMATION SHOWN ON THESE DRAWINGS INDICATING SIZE, TYPE AND LOCATION OF UNDERGROUND, SURFACE, AND AERIAL UTILITIES IS NOT GUARANTEED TO BE EXACT OR COMPLETE. THE CONTRACTOR SHALL CONTACT THE CONWAY AREA "ONE CALL" SYSTEM AT 1-501-328-2500 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION FOR EXISTING UTILITY LOCATIONS. THE CONTRACTOR SHALL ALSO BE FULLY RESPONSIBLE FOR FIELD VERIFYING LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES AFFECTED BY CONSTRUCTION FOR THIS PROJECT IN ORDER TO AVOID DAMAGING THOSE UTILITIES, AND SHALL IMMEDIATELY ARRANGE FOR REPAIR AND RESTORATION OF CONTRACTOR-DAMAGED UTILITIES TO THE UTILITY COMPANY’S APPROVAL AT THE EXPENSE OF THE CONTRACTOR.
CONCRETE CURB AND GUTTER

1. Curb forms shall be 2-inch dressed dimension lumber or metal of equal strength, free from defects that would impair appearance or structural quality of completed curb.

2. Provide stakes and bracing materials for forms as required to hold firm in place.

3. Class 7 Aggregate shall be used to construct base for concrete curb and gutter.

4. Concrete shall be ready mixed conforming to ASTM C314, Alternative 2.

5. Concrete shall have compressive strength of 3000 psi at 28 days.

6. Concrete shall have maximum aggregate size of 1.6 inches.

7. Concrete shall have slump of 2 to 4 inches.

8. All materials shall be subject to inspection for suitability, as the Engineer may elect, prior to or during incorporation into the work.

GENERAL EROSION CONTROL NOTES

1. Erosion control devices shall be installed as the project progresses and areas are disturbed.

2. All roads on and adjacent to the site shall be protected from sediment.

3. Inspect all erosion control devices weekly and following rainfall events of 0.5 inches.

4. All erosion control devices are to be maintained in good working condition throughout the duration of the project until a permanent vegetation is established.

5. All disturbed areas left idle for a period of 14 days or longer are to receive temporary vegetation and mulch.

6. Remove erosion control devices after permanent vegetation is established.

7. At all locations where existing concrete is to be removed and is not designated for removal.

8. Contractor shall install solid sodding in all disturbed areas.

SITE DEMOLITION

1. Contractor shall remove all demolition structures, pavement surfaces, and drainage pipe in accordance with the drawings.

2. Sawcut a clean line at any locations where concrete or pavement surfaces are to be removed, directly adjacent to concrete or pavement structures.

3. All locations designated for flowable fill, Contractor shall furnish and install self-compacting low strength CCLC, also known as flowable fill. The mix shall have good workability and flowability with self-leveling characteristics.

4. Fencing material that is to be removed prior to construction may be stored and reused if in good condition.

STORM DRAINAGE

1. Reinforced Concrete Pipe shall be Class III and conform to ASTM C266. Joins shall conform to ASTM C266. Connect segments using elastomeric flexible plastic gasket or approved equal.

2. Reinforced concrete drainage structures shall be non-related with Grade III steel rebar in accordance with the details shown on Sheet C3. Designmix to attain minimum of 1000 psi at 28 days. Precast structures shall conform to ASTM C473.

3. Grates and covers shall be heavy-duty cast iron with steel holes and non-slip surfaces.

4. Install concrete drainage structures with exposed concrete surfaces coated to smooth finish in accordance with ACI 313 and with metal frames for grates and covers secured anchord in place.
GENERAL NOTES

1. IN AREAS TO RECEIVE BITUMINOUS PAVING, CONCRETE DRIVEWAYS, OR CURB AND GUTTER, SUBGRADE SHALL BE COMPACTED TO A DENSITY NOT LESS THAN 95% OF MAXIMUM DENSITY OBTAINED AT OPTIMUM MOISTURE CONTENT (AASHTO T-180).

2. FOR AREAS OF SUBGRADE PREPARATION TO RECEIVE CONCRETE SIDEWALKS, THE SUBGRADE SHALL BE COMPACTED TO A DENSITY OF 95% OF THE MAXIMUM. (AASHTO T-180).

3. CRUSHED STONE — DENSITY OF COMPACTED MATERIAL IN EACH COURSE SHALL BE COMPACTED TO A DENSITY 100% MAXIMUM (AASHTO T-191).

4. SAW CUT WHERE NEW PAVEMENT ABUTS EXISTING.

5. REFER TO CROSS SECTIONS FOR DEVIATIONS FROM NORMAL SLOPES. NO CHANGES SHALL BE MADE FROM PLANNED SLOPES WITHOUT THE APPROVAL OF THE ENGINEER.
24" CLASS 1 CURB DETAIL

SUBGRADE COMPACTED
AT 95% MDD

AGGREGATE BASE COURSE (CL7)
COMPACTED AT 95% MDD

ASPHALT ROADWAY SECTION

CONCRETE PAVING SECTION

48" JUNCTION BOX

#6 BARS AT 10" O.C. BOTH WAYS

NOTE: USE CHAIRS
TO SUPPORT REBAR
ABOVE GROUND

4" CUSHION AT DRIVEWAY CUTOFF

CONCRETE DRIVEWAY PAVEMENT

HEAVY DUTY RIM AND COVER

#6 BARS AT 10" O.C. BOTH WAYS

40HM SURFACE COURSE

SUBGRADE COMPACTED
AT 95% MDD

AGGREGATE BASE COURSE (CL7)
COMPACTED AT 100% MDD

CONCRETE PAVING SECTION

MAXIMUM GRADES FOR DRIVEWAY WHEN
GROUND FALLS TOWARDS STREET

MAXIMUM GRADES FOR DRIVEWAY WHEN
GROUND FALLS AWAY FROM STREET

1. DRIVEWAY GRADES SHALL BE DESIGNED BY ENGINEER TO
KEEP STORM WATER RUNOFF
2. MAXIMUM SURFACE Grade Change IS 2%
3. MINIMUM GRADE CHANGE IS 1%
4. THICKNESSES AND REINFORCEMENTS ARE REQUIRED FOR
CIP CONCRETE FLOOR, WALLS, WITH MINIMUM
5. CONCRETE JOINTS REQUIRED IN ALL DRIVEWAYS AT 10’ O.C. EACH
6. MF GRADE CHANGE IS 1% OF THE HEIGHT OF DRIVEWAY, MAIMUN
7. CONCRETE SHALL HAVE A MINIMUM 4000 PSI COMpressive
STRENGTH.
TRENCH BACKFILL REQUIREMENTS

1. Trenches shall be a minimum of 36 inches in width to allow for proper drainage.
2. Agricope or other approved backfill material shall be used in trenches.
3. Use wood or steel posts, as required by the Department of Public Works.
4. Drainage pipe backfill shall include inorganic backfill materials.
5. Trench backfill shall be placed in 18" increments.
6. Drainage pipe backfill shall be placed in increments of 18".
7. Use wood or steel posts, as required by the Department of Public Works.
8. Drainage pipe backfill shall be placed in increments of 18".
9. Use wood or steel posts, as required by the Department of Public Works.
10. Drainage pipe backfill shall be placed in increments of 18".

CURB INLET STEPS

1. Wood or steel posts, as required by the Department of Public Works.
2. Drainage pipe backfill shall be placed in increments of 18".
3. Use wood or steel posts, as required by the Department of Public Works.
4. Drainage pipe backfill shall be placed in increments of 18".
5. Use wood or steel posts, as required by the Department of Public Works.
6. Drainage pipe backfill shall be placed in increments of 18".
7. Use wood or steel posts, as required by the Department of Public Works.
8. Drainage pipe backfill shall be placed in increments of 18".
9. Use wood or steel posts, as required by the Department of Public Works.
10. Drainage pipe backfill shall be placed in increments of 18".

SILT FENCE

1. Use wood or steel posts, as required by the Department of Public Works.
2. Drainage pipe backfill shall be placed in increments of 18".
3. Use wood or steel posts, as required by the Department of Public Works.
4. Drainage pipe backfill shall be placed in increments of 18".
5. Use wood or steel posts, as required by the Department of Public Works.
6. Drainage pipe backfill shall be placed in increments of 18".
7. Use wood or steel posts, as required by the Department of Public Works.
8. Drainage pipe backfill shall be placed in increments of 18".
9. Use wood or steel posts, as required by the Department of Public Works.
10. Drainage pipe backfill shall be placed in increments of 18".

NOTE:

1. Use wood or steel posts, as required by the Department of Public Works.
2. Drainage pipe backfill shall be placed in increments of 18".
3. Use wood or steel posts, as required by the Department of Public Works.
4. Drainage pipe backfill shall be placed in increments of 18".
5. Use wood or steel posts, as required by the Department of Public Works.
6. Drainage pipe backfill shall be placed in increments of 18".
7. Use wood or steel posts, as required by the Department of Public Works.
8. Drainage pipe backfill shall be placed in increments of 18".
9. Use wood or steel posts, as required by the Department of Public Works.
10. Drainage pipe backfill shall be placed in increments of 18".

CITY OF NORTH LITTLE ROCK
50th STREET IMPROVEMENTS
NORTH LITTLE ROCK, AR

MISCELLANEOUS DETAILS 3