2016 PAVING IMPROVEMENTS
FOR
CITY OF MANOR, TEXAS
IMPROVEMENTS FUNDED BY THE CAPITAL METROPOLITAN TRANSPORTATION AUTHORITY
SEPTEMBER 2016

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MANOR CITY COUNCIL
Rita G. Jonse, Mayor
Gil Burrell, Mayor Pro-Tem
Gene Kruppa
Rebecca Davies
Todd Shaner
Jeff Turner
Zindia Pierson

SUBMITTED FOR CONSTRUCTION:
JAY ENGINEERING COMPANY, INC.

APPROVE BY:
CITY OF MANOR, TEXAS

DATE: 9-14-16

DATE: 9-15-16
GENERAL NOTES


2. THE CONTRACTOR SHALL CONTACT THE 1-800-DIG-TEST AND CITY OF MANOR FOR EXISTING UTILITY LOCATIONS 48 HOURS PRIOR TO ANY EXCAVATION. PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES THAT ARE TO BE EXTENDED, TIE-TO, CROSSED, OR ALTERED, OR SUBJECT TO DAMAGE/INCONVENIENCE BY THE CONSTRUCTION OPERATIONS.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION BETWEEN HIMSELF AND OTHER CONTRACTORS AND UTILITIES IN THE VICINITY OF THIS PROJECT. THIS INCLUDES GAS, WATER, WASTEWATER, ELECTRICAL, TELEPHONE, CABLE TELEVISION, PETROLEUM PRODUCTS AND STREET & DRAINAGE WORK. ONCE THE CONTRACTOR BECOMES AWARE OF POSSIBLE CONFLICT, IT IS THE CONTRACTOR’S RESPONSIBILITY TO NOTIFY THE PROJECT INSPECTOR WITHIN TWENTY-FOUR (24) HOURS.

4. THE RASING OF MANHOLE FRAMES, COVER, AND WATER VALVE TO THE FINISHED GRADE WILL NOT BE MEASURED AND PAID FOR, BUT WILL BE SUBSIDIARY TO OTHER IBD ITEMS, UNLESS LISTED SEPARATELY AS A IBD ITEM. ALL UTILITY ADJUSTMENTS WILL BE COMPLETED AND INSPECTED PRIOR TO FINAL PAYING OPERATIONS.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL SPOILS MATERIAL FROM THE CONSTRUCTION SITE. ALL SPOILS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR AT AN APPROVED SPOIL SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND SECURING APPROVAL FOR THE SPOIL SITE, AND SHALL NOTIFY THE CITY AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO DISPOSAL OF THE MATERIAL. THIS ITEM WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE SUBSIDIARY TO THE VARIOUS IBD ITEMS.

6. THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN BARRICADES, WARNING SIGNS, FLASHERS AND OTHER DEVICES OF THE TYPE AND SIZE AS INDICATED IN THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, OR AS DIRECTED BY THE ENGINEER.

7. ANY VARIATION FROM THE APPROVED PLANS MUST BE APPROVED BY THE CITY ENGINEER IN WRITING FIRST.

CITY OF MANOR STANDARD CONSTRUCTION NOTES

CONTROLS

RECORD NO. XXXXXXXX DATED

DATE OF SURVEY: XXXXXXXX

BEARING BASIS: XXXXXXXX

ELEVATION: XXXXXXXX

SEQUENCE OF CONSTRUCTION

THE CONTRACTOR SHALL SUBMIT A DETAILED SCHEDULE OF CONSTRUCTION WHICH COMPLIES WITH THE FOLLOWING SEQUENCE:

1. CONDUCT A PRECONSTRUCTION CONFERENCE WITH THE CITY OF MANOR DIRECTOR OF PUBLIC WORKS, CITY ENGINEER AND OWNER.

2. HOLD ON-SITE PRE-CONSTRUCTION MEETING WITH THE ENGINEER AND THE CONSTRUCTION INSPECTOR.

3. COMMENCE CONSTRUCTION OF PROJECT AS SHOWN ON PLANS.

4. DRESS UP AND RESTORE ANY AREAS DISTURBED BY ITEM 5 ABOVE.

STAGING AREA FOR CONSTRUCTION

ALL CONSTRUCTION ACTIVITIES, INCLUDING MATERIAL STORAGE AND STAGING AREA, SHALL BE WITHIN THE PROPERTY AND EXEMPTIONS INDICATED ON THE DRAWINGS. ANY ADDITIONAL AREAS REQUIRED FOR CONSTRUCTION AT THIS PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE APPROVED BY THE ENGINEER.

CRITERIA FOR ACCEPTANCE

THE PROCEDURE FOR ACCEPTANCE MEETS THAT ALL IMPROVEMENTS FIRST BE COMPLETED TO THE SATISFACTION OF THE CITY ENGINEER, ONCE ALL IMPROVEMENTS HAVE BEEN SATISFACCTORILY COMPLETED, THE FOLLOWING DOCUMENTS MUST BE SUBMITTED FOR REVIEW:

1. ONE (1) COPIES OF RECORD DRAWINGS (AS-BUILT PLANS).
2. COPIES OF ALL INSPECTION REPORTS, SHOP DRAWINGS AND CERTIFIED TEST RESULTS OF CONSTRUCTION MATERIALS.
3. COPIES OF ALL FIELD-TESTING RESULTS INCLUDING CHEMICAL, BACTERIOLOGICAL, AND LINE/MANHOLE TESTING.
4. APPROVAL OF ALL BILLS PAID
5. SEPARATION OF COSTS FORM

ONCE ALL THE REQUIREMENTS OF THE ACCEPTANCE PROCESS HAVE BEEN SATISFIED AND FEES PAID, THE CITY WILL TAKE ACTION TO ACCEPT THE IMPROVEMENTS.

STANDARD ENVIRONMENTAL NOTES

1. TEMPORARY EROSION/SEDIMENTATION CONTROL, AND TREE/NATURAL AREA PROTECTION MEASURES:

A. THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY PREPARATION WORK (CLEAVING, GRUBBING, DIGGING OR EXCAVATION).

B. THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS SHALL BE ACCORDANCE WITH THE EROSION AND SEDIMENTATION CONTROL PLAN.

C. ANY SIGNIFICANT VARIATION IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THOSE SHOWN ON THE PLANS MUST BE APPROVED BY THE ENGINEER.

D. THE CONTRACTOR IS TO INSPECT THE CONTROLS AND FENCES AT INTERVALS AND AFTER SIGNIFICANT RAINFALL, TO INSURE THEY HAVE NOT BEEN SUBSTANTIALLY DISTURBED. THE PERSON(S) OR FIRM(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL BE IMMEDIATELY NOTIFIED TO MAKE ANY NECESSARY REPAIRS.

E. ANY SEDIMENT START-UP OCCURRING AFTER A SIGNIFICANT RAIN SHALL BE REMOVED AND PLACED IN THE DESIGNATED SPOIL DISPOSAL SITE.

2. PERMANENT EROSION CONTROL

A. ALL DISTURBED AREAS SHALL BE RESTORED AS NOTED BELOW.

B. THE CONTRACTOR SHALL HYDROMULCH OR SOD ALL EXPOSED CUTS AND FILLS UPON COMPLETION OF CONSTRUCTION, EXCEPT WHERE CUTS ARE MADE IN SOLID ROCK.

C. THE SEEDING FOR EROSION CONTROL SHALL BE APPLIED OVER AREAS DISTURBED BY CONSTRUCTION AS FOLLOWS:

1. FROM SEPTEMBER 15 TO MARCH 1, SEEDING SHALL BE A COMBINATION OF 1 POUND OF UNKELIEL BERMUDA AND 3 POUNDS OF WATER SOD PER 1000 SQUARE FEET WITH A PURITY OF 95% WITH 85% GERMINATION.
2. FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH 33% LIMTED BERMUDA GRASS (CYNOGNON DOCTOR) AT A RATE OF 1 POUND PER 1000 SQUARE FEET WITH A PURITY OF 95% WITH 85% GERMINATION.

D. FERTILIZER SHALL BE APPLY AT THE RATE OF 650 POUNDS PER ACRE.

E. THE PLANTED AREA MUST BE IRRIGATED USING A PERMANENT OR TEMPORARY IRRIGATION SYSTEM UTILIZING SPRINKLER HEADS, DROP IRRIGATION OR ANOTHER ACCEPTABLE DISTRIBUTION SYSTEM, THAT WILL NOT ERODE THE TOPSOIL, BUT WILL SUCCINTLY EX FLOOR TO A DEPTH OF SIX INCHES. THE IRRIGATION SHALL OCCUR AT TEN DAY INTERVALS DURING THE FIRST NO MONTHS. RAINFALL OCCURRENCES OF 1/2 INCH OR GREATER SHALL POSTPONE THE WATERING SCHEDULE ONE WEEK.

F. MALIC TYPE SUED SHALL BE EITHER CELLULOSE, WOOL PULP APPLIED AT A RATE OF 2500 POUNDS PER ACRE, OR WOOD FIBER WOOL APPLIED AT A RATE OF 2500 POUNDS PER ACRE.

G. RESTORATION SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1-1/2 INCH HIGH WITH 85% COVERAGE, PROVIDED THAT NO BARE SPOTS LARGER THAN 16 SQUARE FEET EXIST (SEE ITEM 50.4.7 OF THE CITY OF AUSTIN STANDARDS SPECIFICATIONS).
BASE BID:
DOUBLE YELLOW CENTER STRIPING (FROM PC TO PT) TYPE 1 THERMO
INSTALL YELLOW PAVEMENT MARKERS (BETWEEN STRIPING) AT 60' INTERVALS, TYPE II A-A

ALTERNATE BID WORK
RESURFACE BRENNHAM STREET, FROM LIMITS OF LEXINGTON DRIVE TO "END OF CONSTRUCTION". SEE SHEET 6 FOR DETAIL.
NOTE:
ALL STREET INTERSECTIONS TO HAVE 25" RADIUS, UNLESS NOTED OTHERWISE
BASE BID:
DOUBLE YELLOW CENTER STRIPING (FROM PC TO PT) TYPE 1 THERMO
INSTALL YELLOW PAVEMENT MARKERS (BETWEEN STRIPING) AT 80' INTERVALS, TYPE II A-A

LEGEND

BASE BID WORK
ADD CRACK SEALANT & DOUBLE YELLOW STRIPING

ALTERNATE BID WORK
RESURFACE BRENNAM ST., FROM LIMITS OF LEXINGTON DRIVE TO "END OF CONSTRUCTION". SEE SHEET 6 FOR DETAIL.

NOTE:
ALL STREET INTERSECTIONS TO HAVE 25' RADIUS, UNLESS NOTED OTHERWISE.
TYPICAL OVERLAY SECTION
N.T.S.

NOTES:
1. CONTRACTOR TO DISPOSE OF ALL BLADED MATERIALS IN APPROVED LOCATION.

PROPOSED PAVEMENT REPAIR SECTION
N.T.S.
NOTES:
1. CONTRACTOR TO SAWCUT & REMOVE 15' OF EXIST. HMAC @ ALL TRANSITIONS FROM EXISTING TO NEW HMAC.

OVERLAY TRANSITION DETAIL
N.T.S.

4" HMAC TYPE C

TYPICAL ROADWAY POTHOLE REPAIR

COMPACT SUBGRADE TO 95% MAX. DENSITY

10" ASPHALT STABILIZED BASE (SR2)

Notes:
1. FOR PATCHES IN ROAD SECTIONS RECEIVING 1 1/2" HMAC OVERLAY, FINISH 10" COMPACTED FLEXBASE, FLUSH WITH EXISTING PAVEMENT AND PROME FLEXBASE, PRIOR TO OVERLAY.
GENERAL NOTES
1. The sheet is intended to provide details for temporary work zone maneuvers. Permanent road closures should see the GDBM standards.
2. Barricades used shall meet the requirements shown on Barriable and Construction Standard S78-19 and listed on the Compliant Work Zone Barricades table.
3. Stripped medians shall not be placed on the traffic side of barricades.
4. Barricades at the road closure should extend from pavement edge to pavement edge.
5. Detour signage shown is intended to illustrate the type of signage that is appropriate for numbered routes or un-numbered routes as indicated. It does not imply the full extent of detour signage required. Detour routes should be designed as shown elsewhere in the plan.
6. If the road is open for a significant distance beyond the intersection or there are significant changes in direction points beyond the intersection, the signage should be located at the beginning of the road closure.
7. The Street name (M41-127) sign is to be placed above the DETOUR (M41-95) sign.
8. For urban areas where there is a shorter distance between the intersection and the actual closure location, the ROAD CLOSED AS WZCD area (M41-76) sign may be replaced with a ROAD CLOSED AHEAD (M49-30) sign provided there is no existing ROAD CLOSED AHEAD (M49-30) sign. Both signs may appear as per the table above; may replace the ROAD CLOSED AHEAD (M49-30) sign, and ROAD CLOSED 500 FT (M49-30) sign.
9. Signs and barricades shown shall be subject to Item NO. Locations where these details will be required shall be shown elsewhere in the plans.