

KNOXVILLE/KNOX COUNTY METROPOLITAN PLANNING COMMISSION SUBDIVISION REPORT - CONCEPT

► FILE #: 9-SA-15-C AGENDA ITEM #: 11

AGENDA DATE: 9/10/2015

► SUBDIVISION: HOLSTON BEND DRIVE EXTENSION

► APPLICANT/DEVELOPER: THE DEVELOPMENT CORPORATION OF KNOX COUNTY

OWNER(S): Development Corp. of Knox County

TAX IDENTIFICATION: 42 19549 View map on KGIS

JURISDICTION: County Commission District 8

STREET ADDRESS:

► LOCATION: Northeast end of Holston Bend Dr., east of Eastbridge Dr.

SECTOR PLAN: Northeast County

GROWTH POLICY PLAN: Planned Growth Area

WATERSHED: Holston and French Broad

► APPROXIMATE ACREAGE: 486 acres

► ZONING: I (Industrial)

EXISTING LAND USE: Partially developed industrial park and vacant land

► PROPOSED USE: Public Road

SURROUNDING LAND USE AND ZONING:

Development in the area consists of industrial/warehousing uses and a quarry. The zoning in the area is I industrial. Much of this industrially zoned property was once associated with the zinc mining that has occurred in the

area.

► NUMBER OF LOTS: 0

SURVEYOR/ENGINEER: CDM Smith

ACCESSIBILITY: Access is via Holston Bend Dr., a local street with a pavement width of 24'

with 6' wide shoulders located within an 80' wide right-of-way.

► SUBDIVISION VARIANCES

REQUIRED:

1. Construction of a public street without curbs

STAFF RECOMMENDATION:

► APPROVE variance1 because the site's topography restricts compliance with the Subdivision Regulations, and the proposed variances will not create a traffic hazard.

APPROVE the Concept Plan subject to 4 conditions:

- 1. Improving the angle of intersection for the proposed utility driveway to meet or exceed the minimum angle of intersection permitted by the Subdivision Regulations
- 2. Provide a minimum of 1% grade across the cul-de-sac bulb
- 3. Provide a typical pavement cross-section of a commercial-industrial street or as required by the Knox County Dept. of Engineering and Public Works
- 4. Meeting all other applicable requirements of the Knox County Dept. Of Engineering and Public Works

COMMENTS:

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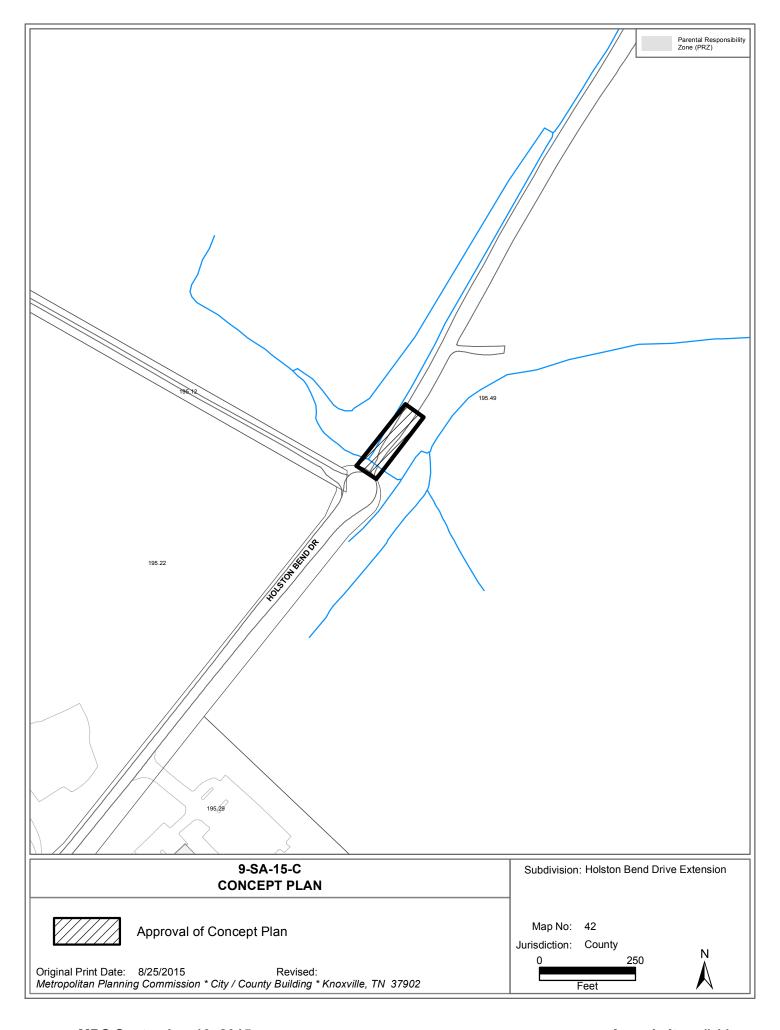
The applicant is proposing to extend Holston Bend Dr. in the existing Eastbridge Business Park. Extending this road will open hundreds of acres of industrially zoned land for development. The applicant has requested a variance that will permit this road extension be built without the provision of curbs. The existing portion of Holston Bend Dr. and the other streets in the business park have been constructed without curbs being required.

ESTIMATED TRAFFIC IMPACT: A traffic impact study was prepared by the applicant. The findings of that study were used in formulating the recommendations of this staff report.

ESTIMATED STUDENT YIELD: Not applicable.

MPC's approval or denial of this request is final, unless the action is appealed to Knox County Chancery Court. The date of the Knox County Chancery Court appeal hearing will depend on when the appeal application is filed.

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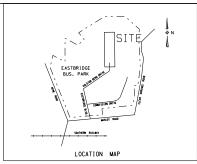


THE DEVELOPMENT CORPORATION OF KNOX COUNTY, TENNESSEE

HOLSTON BEND DRIVE EXTENSION

CONSTRUCTION

ROADWAY, MINOR GRADING, MINOR DRAINAGE AND PAVING



GENERAL NOTES

GRADI NG

THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF THE PROPERTY IN A REQUATION FLOODWAY AS DEFINED BY THE FEDERAL MERGENCH MANUCEAUTH ACENT WITHOUT APPROVAL BY MANUFACTURE OF THE PROPERTY OF

SEEDING

SEEDING (WITH MULCH) SHALL BE USED ON ALL DISTURBED AREAS AND SLOPES.

THE CONTRACTOR SHALL SHAPE DITCHES TO THE SPECIFIED DESIGN. THE COST SHALL BE PAID UNDER ITEM 203-OL

<u>UTILITIES</u>

THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY CONTACTING THE UTILITY COMPANES INVOLVED.

THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE WEASJIRES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE GURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO MORN OVER AN ADROUD THE UTILITIES. THE CONTRACTOR WILL BE REQUIRED TO FRIENDS SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FIRMSHIMS SPECIAL EQUIPMENT WILL BE INCLIDED IN THE PREE BY FOR OTHER THESE OF CONSTRUCTION.

THE CONTRACTOR SHALL NOTIFY EACH HOWNDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE OWEN AT LEAST THREE 13 BUSINESS DATS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY.

SOME UTILITIES CAN BE LOCATED BY CALLING THE TENNESSEE ONE CALL SYSTEM. INC. AT 1-800-351-1111.

MI SCELLANEOUS

NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS NEAR THE PROPOSED CONSTRUCTION AREA.

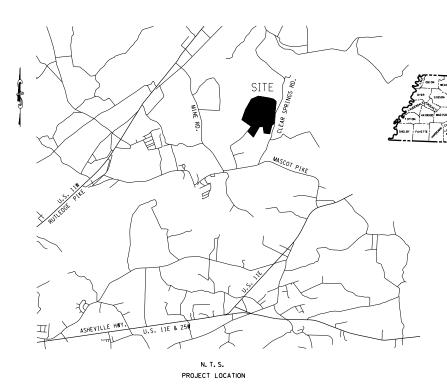
SPECIAL NOTES

- GRADING, EROSION CONTROL, AND ALL OTHER ITEMS ARE TO BE CONSTRUCTED ACCORDING TO TENNESSEE DEPARTMENT OF TRANSPORTATION <u>STANDARD SPECIFICATIONS FOR ROAD AND BUILDED CONSTRUCTION</u> MARCH 1,2006 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS PROVIDED IN THE PLANS AND IN THE PROPOSAL CONTRACT.
- 2. THE CONTRACTOR SHALL COMPLY WITH THE DEPARTMENT OF LABOR SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION PROMULATED UNDER THE OCCUPATIONAL AND HEALTH ACT OF 1950 JOHN 91-9504 AND UNDER SECTION 100 OF THE CONTRACT WORK MOSES AND SAFETY STANDARDS ACT RESPECTIVE CONTRACT SHALL COMPLY WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT FOR CONSTRUCTION MOUSTRY (29 CTB PART 1950 JUNES SECTION "S SOCIETY SAFETY AND HEALTH ACT FOR CONSTRUCTION MOUSTRY (29 CTB PART 1950 JUNES SECTION "S SOCIETY SAFETY AND HEALTH ACT FOR CONSTRUCTION MOUSTRY (29 CTB PART 1950 JUNES SECTION "S SOCIETY SAFETY AND HEALTH ACT FOR CONSTRUCTION MOUSTRY (29 CTB PART 1950 JUNES SECTION "S SOCIETY SAFETY AND HEALTH ACT FOR CONSTRUCTION MOUSTRY (29 CTB PART 1950 JUNES SECTION "S SOCIETY SAFETY AND HEALTH ACT FOR CONSTRUCTION MOUSTRY (29 CTB PART 1950 JUNES SECTION "S SOCIETY SAFETY AND HEALTH ACT FOR CONSTRUCTION MOUSTRY (29 CTB PART 1950 JUNES SECTION "S SOCIETY SAFETY AND HEALTH ACT FOR CONSTRUCTION MOUSTRY (29 CTB PART 1950 JUNES SECTION "S SOCIETY SAFETY AND HEALTH ACT FOR CONSTRUCTION MOUSTRY (29 CTB PART 1950 JUNES SECTION "S SOCIETY SAFETY AND HEALTH ACT FOR CONSTRUCTION MOUSTRY (29 CTB PART 1950 JUNES SECTION "S SOCIETY SAFETY AND HEALTH ACT FOR CONSTRUCTION MOUSTRY (29 CTB PART 1950 JUNES SECTION "S SOCIETY SAFETY S

DESIGNED BY: CDM SMITH ALEXANDER PLACE

PH. (865) 963-4300 FAX (865) 963-4301

DESIGNED FOR: THE DEVELOPMENT CORPORATION OF KNOX COUNTY



9-SA-15-C

Revised: 8/26/2015

PROJECT LOCATION



HOLSTON BEND DRIVE EXTENSION KNOX COUNTY, TENNESSEE

MPC September 10, 2015

Agenda Item # 11

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	HOLSTON BEND EXT.	2
	CONST.	CONST. 2015	CONST. 2015 HOLSTON BEND EXT.

DWG. NO. REV. DATE

INDEX OF SHEETS ROADWAY DESIGN STANDARDS

SHEET NO.

RD-A-I	12-18-99	STANDARD ABBREVIATIONS
RD-L-I	10-26-94	STANDARD LEGEND
RD-L-2	9-5-01	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-4	4-15-04	STANDARD LEGEND FOR EROSION AND SEDIMENT CONTROL
RD0I-S-II	4-4-03	DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RDOI-S-II A	10-15-02	ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION
RD0I-TS-I	10-15-02	DESIGN STANDARDS FOR LOCAL ROADS AND STREETS

TITLE

CULVERTS AND ENDWALLS

CURRENT

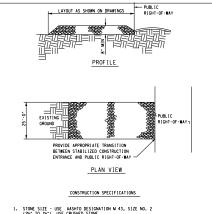
D-CE-I	7-29-96	REVISED CONSTRUCTION DETAILS
D-PB-I	1-2-13	STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION
D-PE-4	12-1-14	STRAIGHT CONCRETE ENDWALL
D-SEW-IA	3-1-12	SIDE DRAIN CONC.ENDWALL
D-DE-304 9 30D	3-1-12	TO COMP ENDWALL CROSS DRAIN

ROADWAY AND PAVEMENT APPURTENANCES

RP-I-5	12-18-96	EXAMPLES OF STREET AND ALLEY INTERSECTIONS
RP-R-I	5-27-01	RAMPS TO SIDE ROADS

EROSION PREVENTION AND SEDIMENT CONTROL

EC-STR-I	8-1-12	DEWATERING STRUCTURE
EC-STR-3B	8-1-12	SILT FENCE
EC-STR-3E	4-1-08	SILT FENCE FABRIC JOINING DETAILS
EC-STR-6	8-1-12	ROCK CHECK DAM
EC-STR-7	8-1-12	SEDIMENT TRAP WITH CHECK DAM
EC-STR-II	8-1-12	CULVERT PROTECTION TYPE I
EC-STR-34	8-1-12	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION



TITLE SHEET, GENERAL & SPECIAL NOTES _____ 1 INDEX OF SHEETS, STANDARD DRAWINGS AND NOTES _____ 2

ESTIMATED ROADWAY QUANTITIES _____ _ _ _ _ _ _ _ _ _ 3 TYPICAL ROADWAY SECTIONS _ ____ 4 OVERALL PLAN ____ _ _ _ _ _ 5 PRESENT AND PROPOSED LAYOUT AND ROADWAY PROFILES ____ 6-8

GRADING AND DRAINAGE DETAIL _____ 9-11 HOLSTON BEND CROSS SECTIONS ______ ____ 12-18 ACCESS RD CROSS SECTIONS _____ 19-28

CULVERT CROSS SECTIONS ___ ___ __ __ __ __ __ 29

SHEET NAME

- STONE SIZE USE MASHIO DESIGNATION M 43, SIZE NO. 2
 (20'T 10 N°). USE CRUSSED STONE.
 LENGTH AS EFECTIVE BUT NOT LESS THAN 100 FEET.
 INTONNESS NOT LESS THAN ELOTT 18) INCRESS.
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 PRIOR TO ENTRANCE ONLY PUBLIC RIGHT-OF-MAY. MERN MASHING IS REQUIRED
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 INTO AN APPROVED SCHIMENT TRAP OR SCHIMENT MASHIN. ALL SCHIMENT SHALL
 HENGLING LESS SAND BRASE, CARRYEL, SONDER, OR DIFFER PROPRIED RETIRED.
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 -MAY, THIS WAY REQUIRE PERSON OF SCHIMENT OF BRASED OR TRACKED ONTO PUBLIC RIGHT-OF
 -MAY, THIS WAY REQUIRE PERSON OF SCHIMENT ON BASED OR TRACKED ONTO
 PUBLIC RIGHTS-OF-MAY MUST BE REMOVED IMMEDIATELY.

STABILIZED CONSTRUCTION ENTRANCE

THE EXISTING CONDITIONS ALREADY HAVE A STABLIZED CONSTRUCTION ENTRANCE IF THIS ENTRANCE IS REMOVED BEFORE PLACEMENT OF THE ASPHALT PAVEMENT THIS DETAIL SHALL BE FOLLOWED



I NDEX OF SHEETS.STD DWGS & CONSTRUCTION ENTRANCE DETAIL HOLSTON BEND DRIVE EXTENSION KNOX COUNTY, TENNESSEE



CDM 1100 MARION STREET, SUITE 300 RNOXVILLE, TENNESSEE 37921 PHONE: 885-983-4300 FAX: 885-983-4301

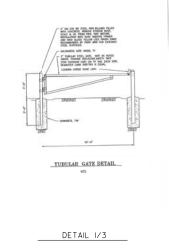
MPC September 10, 2015

8/26/2015 9/53/52 AM

Agenda Item # 11

ITEM	QUANTITY	UNIT
Base Bid - Holston Bend Road Extension		
MOBILIZATION	1	L.S.
CONSTRUCTION STAKES, LINES, AND GRADES		L.S.
CLEAR & GRUBBING		AC
ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	3858	C.Y.
TEMPORARY SILT FENCE (WITHOUT BACKING)	1373	L.F.
SEEDING & MULCHING		UNITS
MINERAL AGGREGATE, TYPE A BASE, GRADING D	1819	
ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A		TON
ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING BM-2	702	TON
BITUMINOUS MATERIAL FOR PRIME COAT (PC)		TON
BITUMINOUS MATERIAL FOR TACK COAT (TC)		TON
ASPHALT CEMENT (PG64-22) (ACS) GRADING D		TON
30" CONCRETE PIPE CULVERT		L.F.
30" ENDWALL (CROSS DRAIN)	_	EA.
CLASS A CONCRETE (30" INLET ENDWALLS)		C.Y.
REINF.STEEL (30" INLET ENDWALLS)	90	
TURF REINF.MATTING TYPE I	1100	SY
CHECK DAMS	800	
ENHANCED ROCK CHECK DAM	1	EA.
16" CLASS 350 D.I.P. WITH STONE BACKFILL	130	
1" WATER METER ASSEMBLY	1	EA.
FIRE HYDRANT ASSEMBLY WITH VALVE		EA.
ELECTRICAL CONDUIT - 6" SCH.40 PVC	150	L.F.
ELECTRICAL CONDUIT - 2" SCH.40 PVC	100	L.E.
12" STEEL GAS SLEEVE		L.F.
STREET LIGHTING	1	FA.
Alternate - Access Road		
ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	726	C.Y.
TEMPORARY SILT FENCE (WITHOUT BACKING)	2301	L.F.
SEEDING & MULCHING	42	UNITS
MINERAL AGGREGATE, TYPE A BASE, GRADING D		TON
ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING BM-2	368	TON
BITUMINOUS MATERIAL FOR PRIME COAT (PC)	11	TON
BITUMINOUS MATERIAL FOR TACK COAT (TC)		TON
ASPHALT CEMENT (PG64-22) (ACS) GRADING D	6	TON
18" CONCRETE PIPE CULVERT	27	L.F.
18" ENDWALL (SIDE DRAIN)	2	EA.
RIPRAP	69	TON
TURF REINF.MATTING TYPE I	623	
TURF REINF.MATTING TYPE II	934	SY
CHECK DAMS	1120	SF

NOTE: QUANTITIES ARE FOR INFORMATION ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITIES AND FOR INCLUDING ANY INCIDENTAL ITEMS NOT INCLUDED IN THE ABOVE QUANTITIES. THE CONTRACT WILL BE A LUMP SUM VALUE.



CONST. 2015 HOLSTON BEND EXT. 3



ESTIMATED UTILITIES QUANTITIES HOLSTON BEND DRIVE EXTENSION

KNOX COUNTY, TENNESSEE

DATE: 7-15-15

CDM 1100 MARION STREET, SUITE 300 KNOXVILLE, TENNESSEE 37921 PHONE: 885-983-4300 FAX: 885-983-4301

