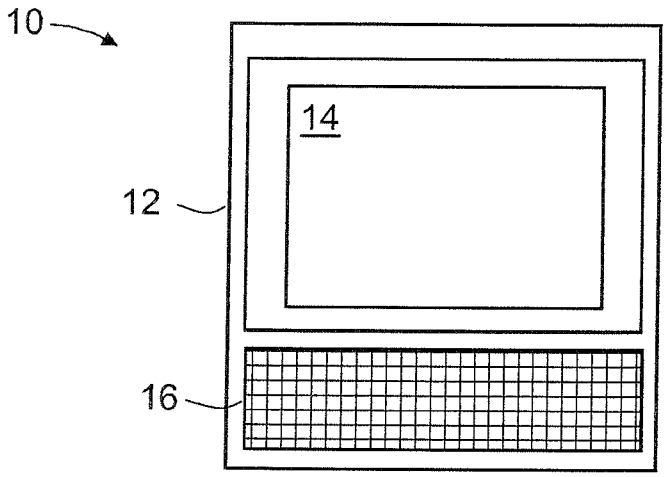


Figure 1

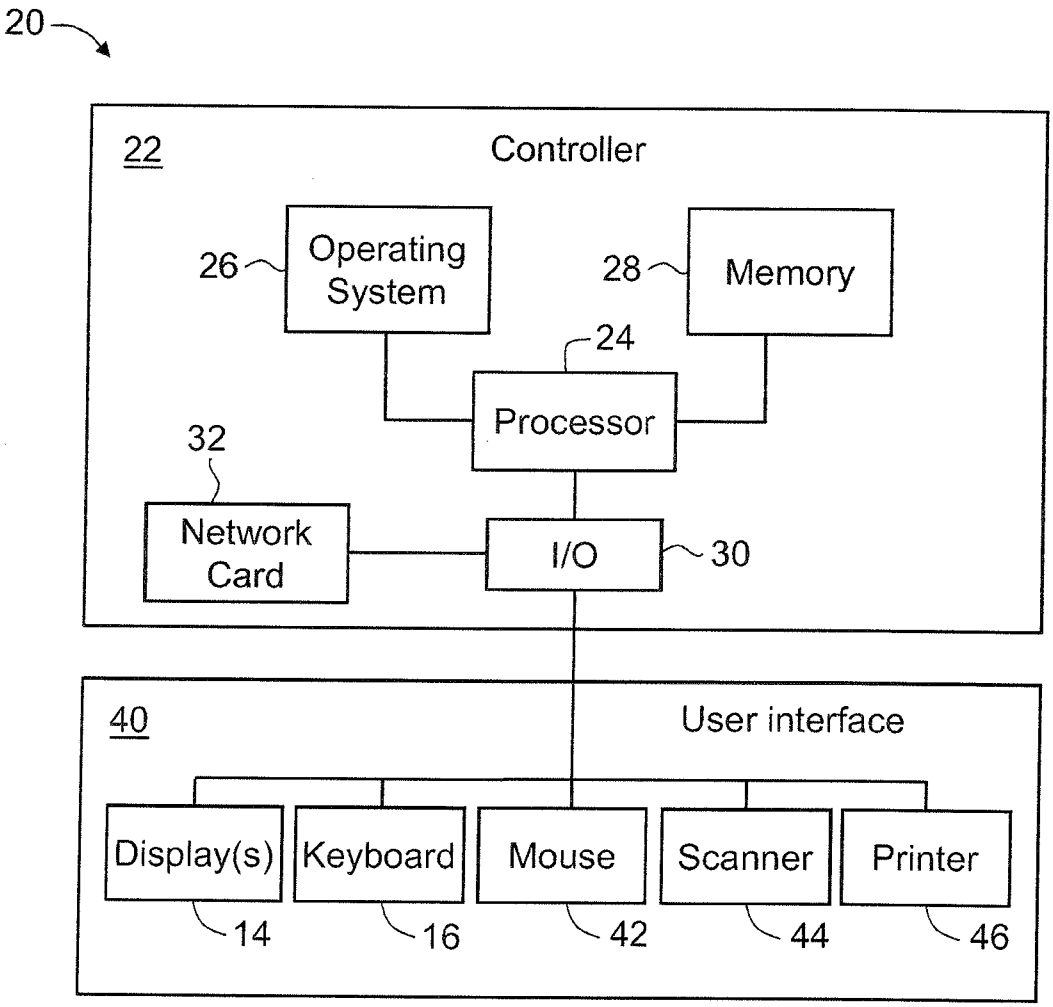


Figure 2

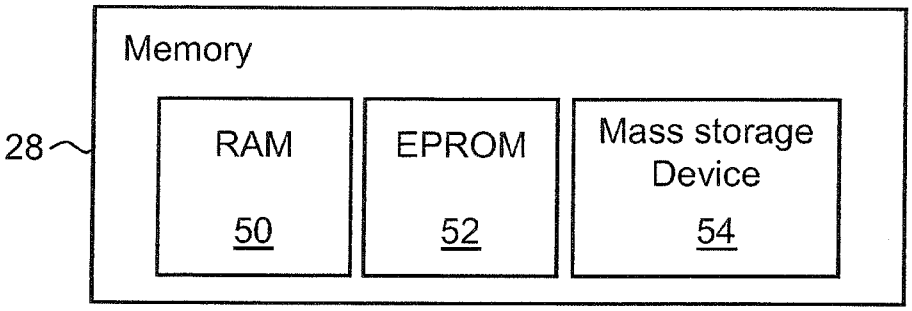


Figure 3

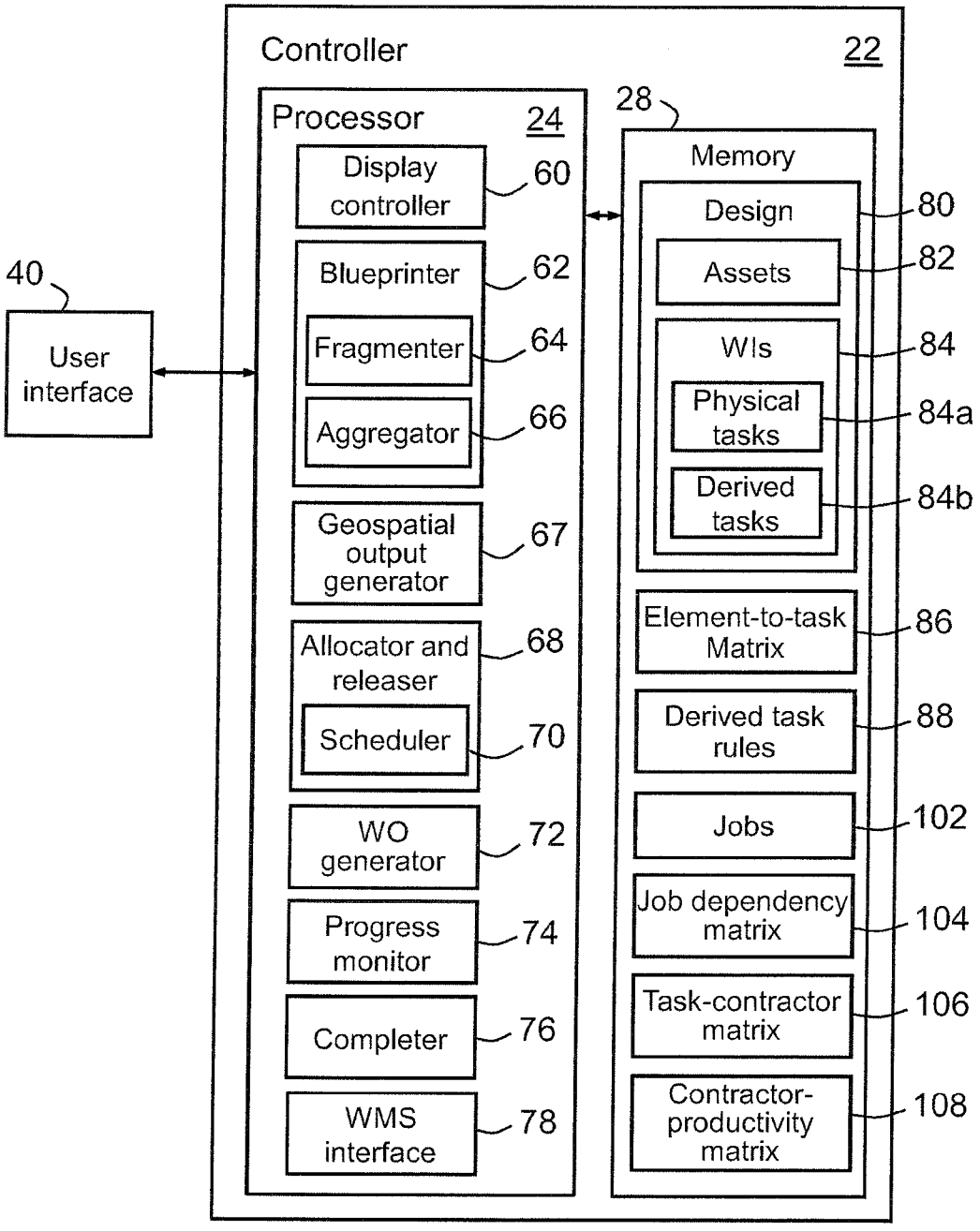


Figure 4A

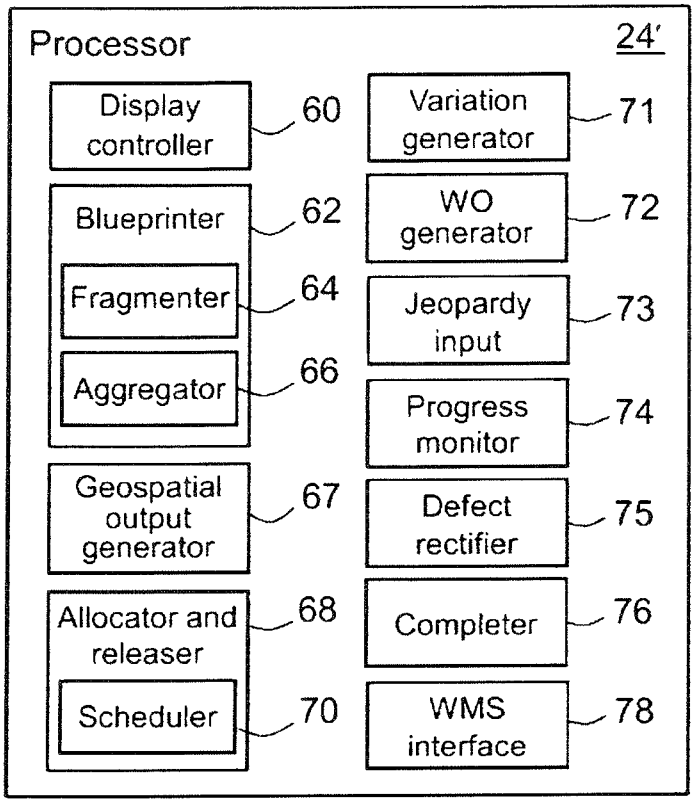


Figure 4B

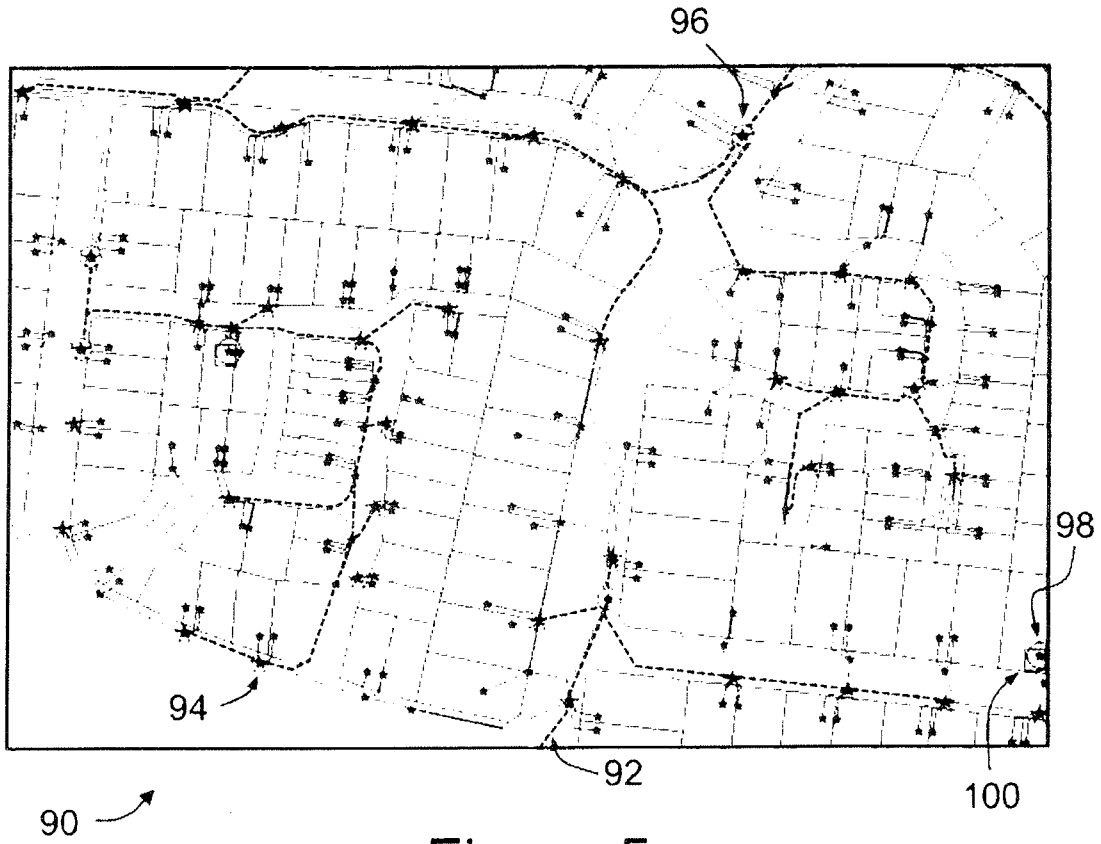


Figure 5

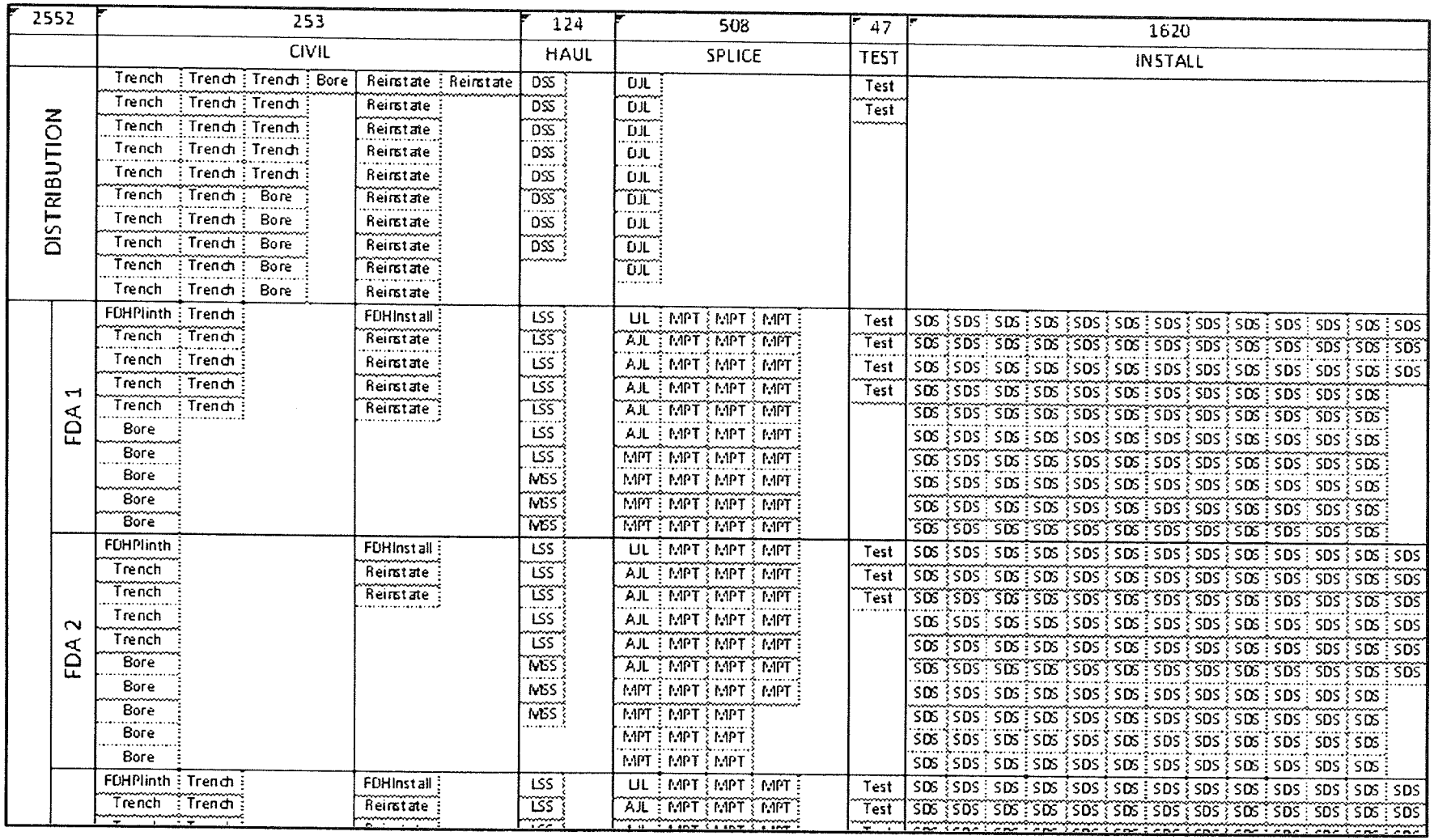

2552
253
CIVIL
124
HAUL
508
SPLICE
47
TEST
1620
INSTALL
DISTRIBUTION
FDA 1
FDA 2
Trench
Bore
Reinstate
DSS
DJL
Test
FDHPlinth
FDHInstall
LSS
UL
AJL
MPT
MBS
SDS

Figure 6

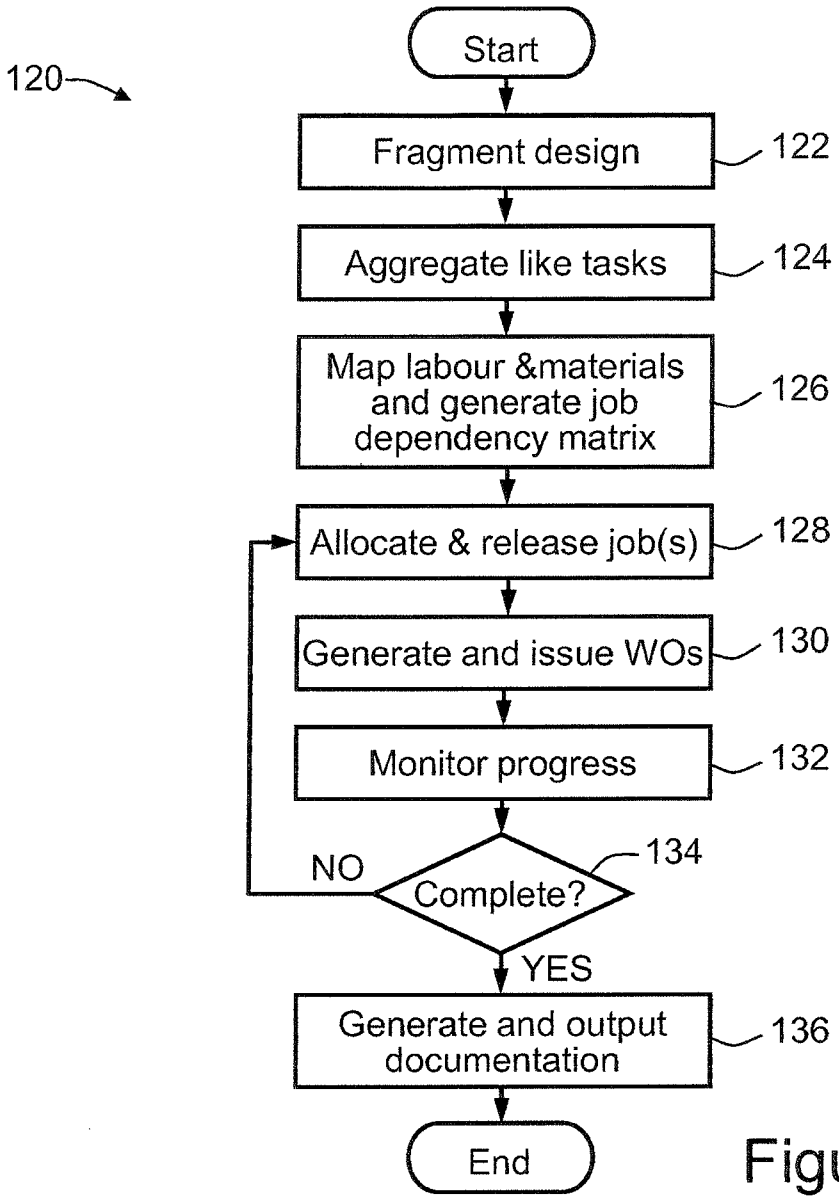


Figure 7

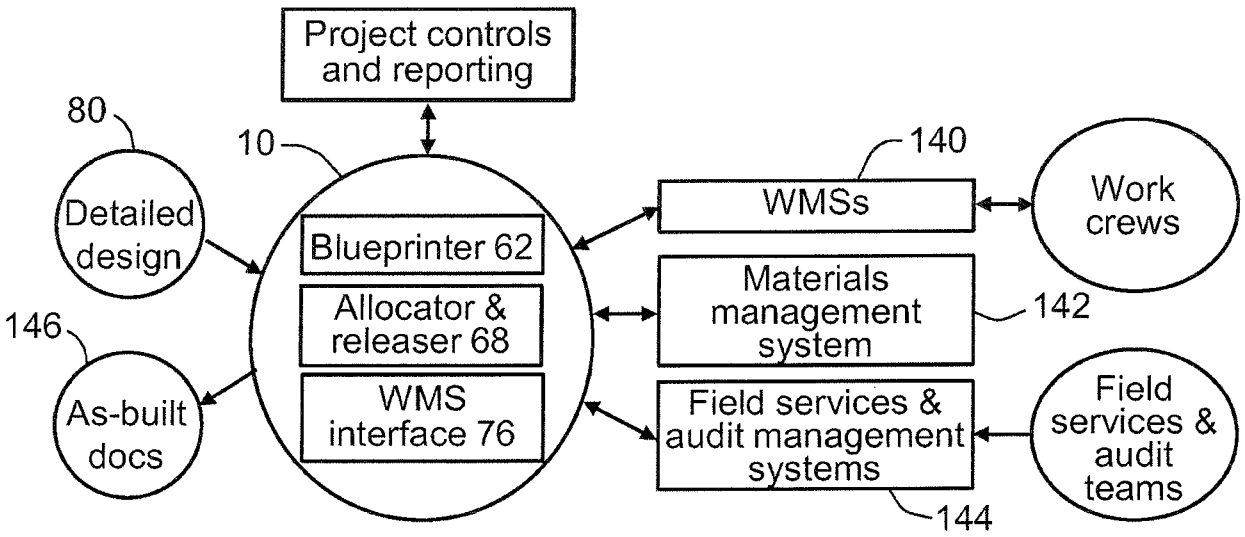


Figure 8

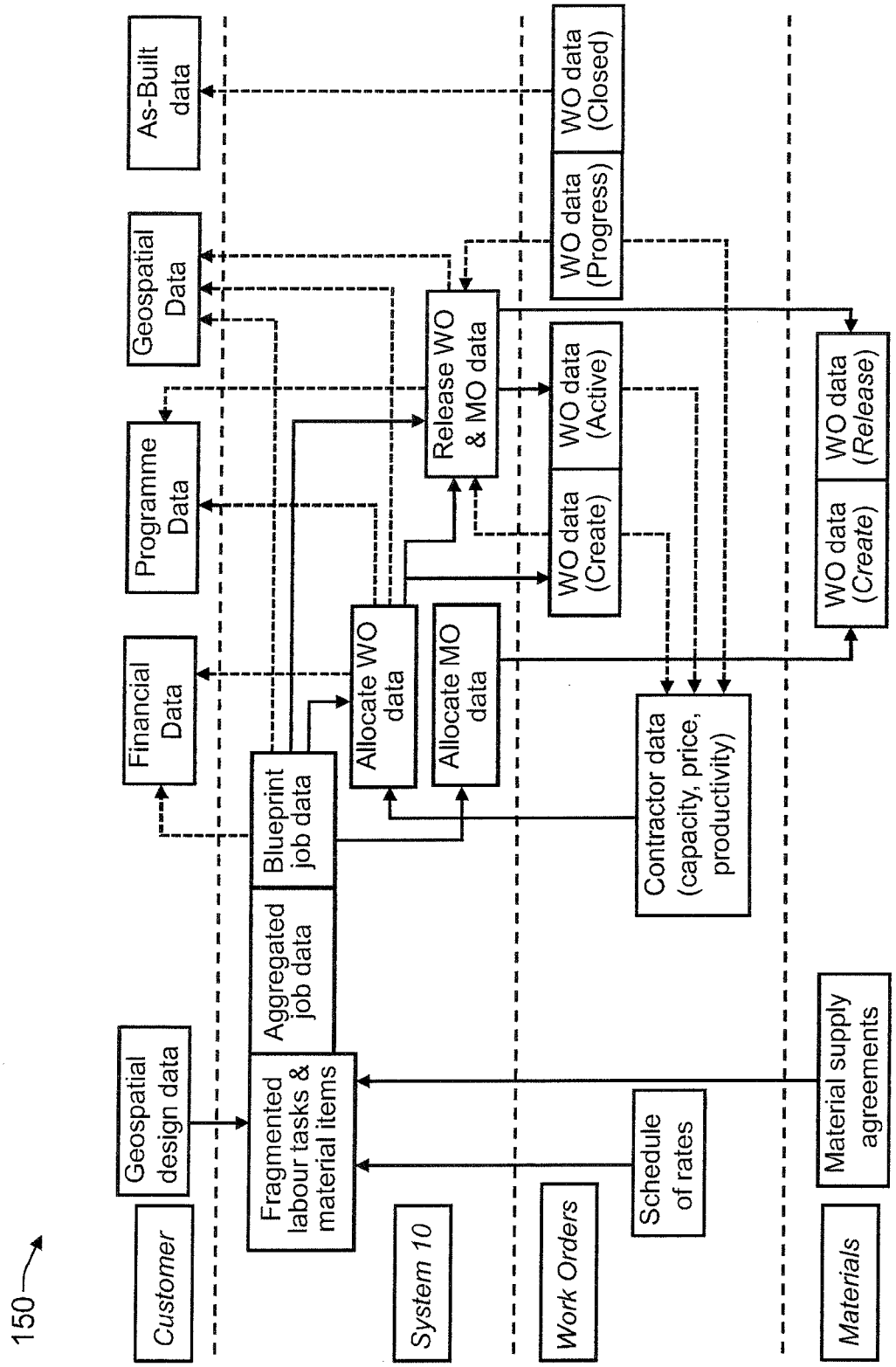
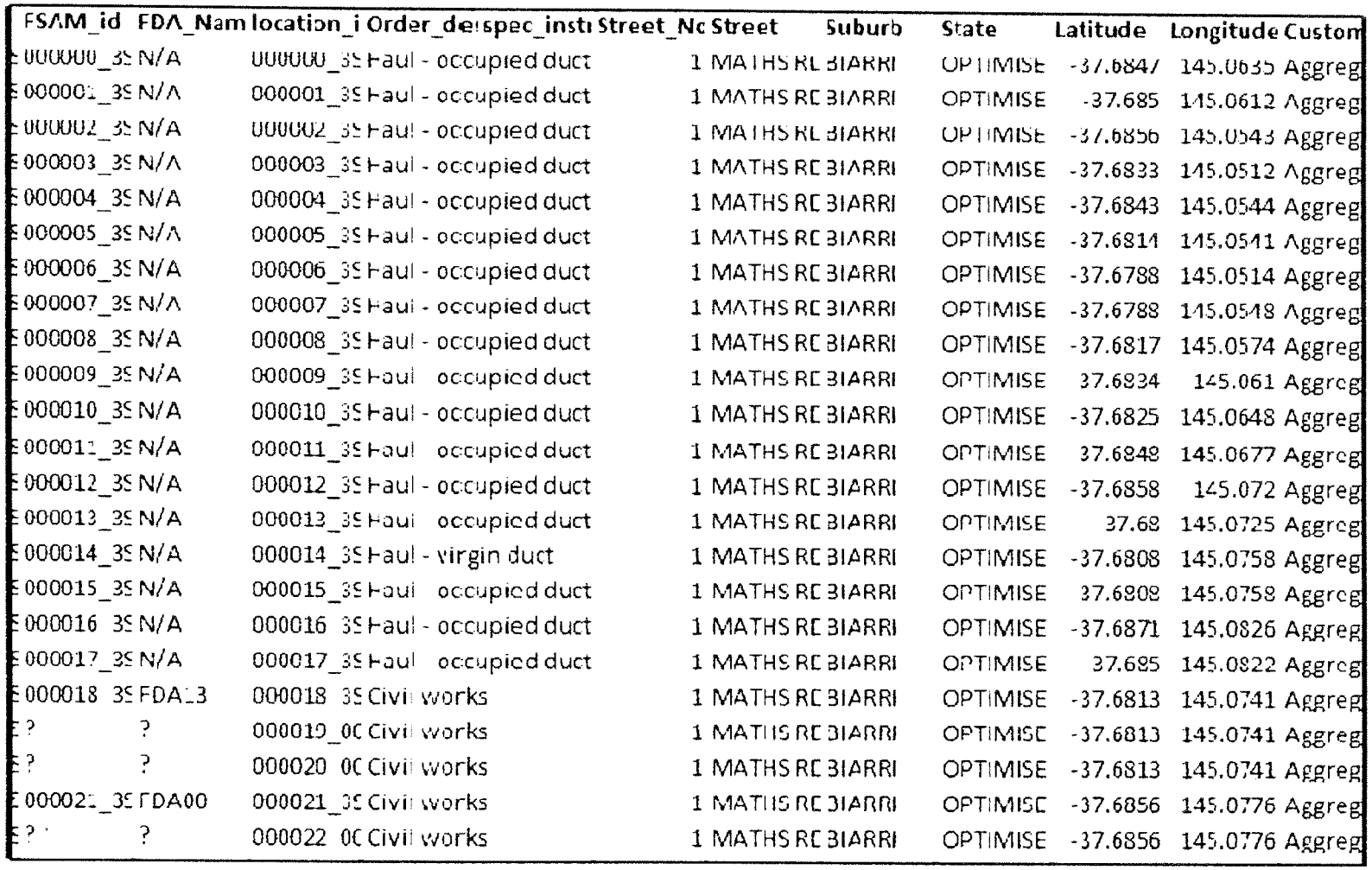

150
Customer
System 10
Work Orders
Materials
Geospatial design data
Fragmented labour tasks & material items
Aggregated job data
Blueprint job data
Financial Data
Programme Data
Geospatial Data
As-Built data
Allocate WO data
Allocate MO data
Release WO & MO data
WO data (Create)
WO data (Active)
WO data (Progress)
WO data (Closed)
Schedule of rates
Contractor data (capacity, price, productivity)
Material supply agreements
WO data (Create)
WO data (Release)

Figure 9

160



FSAM_id	FDA_Nam	location_i	Order_de	spec_insti	Street_Nc	Street	Suburb	State	Latitude	Longitude	Custom
000000_3S	N/A	000000_3S	Haul -	occupied duct	1	MATHS RC	BIARRI	OPTIMISE	-37.6847	145.0635	Aggreg
000001_3S	N/A	000001_3S	Haul -	occupied duct	1	MATHS RC	BIARRI	OPTIMISE	-37.685	145.0612	Aggreg
000002_3S	N/A	000002_3S	Haul -	occupied duct	1	MATHS RC	BIARRI	OPTIMISE	-37.6856	145.0543	Aggreg
000003_3S	N/A	000003_3S	Haul -	occupied duct	1	MATHS RC	BIARRI	OPTIMISE	-37.6833	145.0512	Aggreg
000004_3S	N/A	000004_3S	Haul -	occupied duct	1	MATHS RC	BIARRI	OPTIMISE	-37.6843	145.0544	Aggreg
000005_3S	N/A	000005_3S	Haul -	occupied duct	1	MATHS RC	BIARRI	OPTIMISE	-37.6811	145.0541	Aggreg
000006_3S	N/A	000006_3S	Haul -	occupied duct	1	MATHS RC	BIARRI	OPTIMISE	-37.6788	145.0514	Aggreg
000007_3S	N/A	000007_3S	Haul -	occupied duct	1	MATHS RC	BIARRI	OPTIMISE	-37.6788	145.0548	Aggreg
000008_3S	N/A	000008_3S	Haul -	occupied duct	1	MATHS RC	BIARRI	OPTIMISE	-37.6817	145.0574	Aggreg
000009_3S	N/A	000009_3S	Haul	occupied duct	1	MATHS RC	BIARRI	OPTIMISE	37.6834	145.061	Aggreg
000010_3S	N/A	000010_3S	Haul -	occupied duct	1	MATHS RC	BIARRI	OPTIMISE	-37.6825	145.0648	Aggreg
000011_3S	N/A	000011_3S	Haul	occupied duct	1	MATHS RC	BIARRI	OPTIMISE	37.6848	145.0677	Aggreg
000012_3S	N/A	000012_3S	Haul -	occupied duct	1	MATHS RC	BIARRI	OPTIMISE	-37.6858	145.072	Aggreg
000013_3S	N/A	000013_3S	Haul	occupied duct	1	MATHS RC	BIARRI	OPTIMISE	37.68	145.0725	Aggreg
000014_3S	N/A	000014_3S	Haul -	virgin duct	1	MATHS RC	BIARRI	OPTIMISE	-37.6808	145.0758	Aggreg
000015_3S	N/A	000015_3S	Haul	occupied duct	1	MATHS RC	BIARRI	OPTIMISE	37.6808	145.0758	Aggreg
000016_3S	N/A	000016_3S	Haul -	occupied duct	1	MATHS RC	BIARRI	OPTIMISE	-37.6871	145.0826	Aggreg
000017_3S	N/A	000017_3S	Haul	occupied duct	1	MATHS RC	BIARRI	OPTIMISE	37.685	145.0822	Aggreg
000018_3S	FDA13	000018_3S	Civil	works	1	MATHS RC	BIARRI	OPTIMISE	-37.6813	145.0741	Aggreg
?	?	000019_0C	Civil	works	1	MATHS RC	BIARRI	OPTIMISE	-37.6813	145.0741	Aggreg
?	?	000020_0C	Civil	works	1	MATHS RC	BIARRI	OPTIMISE	-37.6813	145.0741	Aggreg
000021_3S	FDA00	000021_3S	Civil	works	1	MATHS RC	BIARRI	OPTIMISE	-37.6856	145.0776	Aggreg
?	?	000022_0C	Civil	works	1	MATHS RC	BIARRI	OPTIMISE	-37.6856	145.0776	Aggreg

Figure 10



Figure 11