STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

NEW BRITAIN - HARTFORD BUSWAY

IN THE TOWNS OF

NEW BRITAIN, NEWINGTON, WEST HARTFORD AND HARTFORD

STATE PROJECT NO. 088-179 (CONTRACT 7)

100% DESIGN PLANS

SEPTEMBER 21, 2012

CTFASTRAK: ITS & COMMUNICATIONS

LIST OF DRAWINGS

SHEET NO.	DRAWING NO.	DESCRIPTION
01.01.001	TSH-01	TITLE SHEET
01.02.001	REV-01	REVISION SHEET
01.03.001	GEN-01	GENERAL NOTES LEGEND AND ABBREVIATIONS
01.04.001	INX-01	INDEX PLAN
01.05.001 ~ 054	ITS-01 ~ 54	COMMUNICATION CORRIDOR PLANS
01.06.001 ~ 021	STA-01 ~ 21	STATION PLANS
01.07.001	ITD-01	FIBER NETWORK TOPOLOGY
01.08.001	ITD-02	STATION BLOCK DIAGRAM (1/2)
01.08.002	ITD-03	STATION BLOCK DIAGRAM (2/2)
01.09.001	ITD-04	STATION NETWORK DIAGRAM (1/4)
01.09.002	ITD-05	STATION NETWORK DIAGRAM (2/4)
01.09.003	ITD-06	STATION NETWORK DIAGRAM (3/4)
01.09.004	ITD-07	STATION NETWORK DIAGRAM (4/4)
01.10.001	ITD-08	FIBER SPLICE DIAGRAM
01.11.001	ITD-09	BOC BLOCK DIAGRAM
01.12.001	ITD-10	OPTION BOC BLOCK DIAGRAM
01.13.001	ITD-11	BOC FIBER ENTRANCE DETAIL
01.14.001	ITD-12	NOT USED
01.15.001	ITD-13	BUSWAY CAMERA DETAILS
01.16.001	ITD-14	BUSWAY CABINET DETAILS
01.17.001	ITD-15	STATION CAMERA AND MEDIA CONVERTER CABINET DETAILS
01.18.001	ITD-16	POLE MOUNTED VMS AND CAMERA DETAILS
01.19.001	ITD-17	VAULTED ARCH MOUNTED VMS AND CAMERA DETAILS
01.20.001	ITD-18	CANOPY CONDUIT DETAILS
01.21.001	ITD-19	PYLON MOUNTED VMS, CAMERA, AND CABINET DETAILS
01.22.001	ITD-20	EMERGENCY CALL BOX AND PA SYSTEM DETAILS
01.23.001	ITD-21	TICKET VALIDATOR AND VENDING MACHINE DETAILS
01.24.001	ITD-22	COMM CABINET AND BOC RACK ELEVATION DETAILS
01.25.001	ITD-23	PULLBOX AND VAULT DETAILS
01.26.001	ITD-24	CONCRETE HANDHOLE DETAILS
01.27.001	ITD-25	FIBER STORAGE DETAILS
01.28.001	ITD-26	DOWNTOWN NEW BRITAIN STATION DETAILS
01.29.001	ITD-27	NEW VEHICLE EQUIPMENT DIAGRAM
01.30.001	ITD-28	EXISTING VEHICLE EQUIPMENT DIAGRAM

DESIGNED BY:

IBI GROUP

IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA

tel 617 450 0701
fax 617 450 0702

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: $DATE$

DESIGNER/DRAFTER: LM/SM

CHECKED BY: CHP

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: $FILEA$

PROJECT TITLE: CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN TO HARTFORD

DRAWING TITLE: TITLE SHEET

PROJECT NO. 088-179

DRAWING NO. TSH-01

SHEET NO. 01.01.001

Border Version: 10/19/07

REV. No.	SHEET No.	DATE dd/mm/yy	NEW	REV.	DEL.	DESCRIPTION	BY	REV. No.	SHEET No.	DATE dd/mm/yy	NEW	REV.	DEL.	DESCRIPTION	BY	REV. No.	SHEET No.	DATE dd/mm/yy	NEW	REV.	DEL.	DESCRIPTION	BY

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: **LM/SM**

CHECKED BY: **CHP**

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\current\TR_MSH_REV_088_179.dgn

IBI GROUP

IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA

tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:

CT*fastrak*

ITS & COMMUNICATIONS SYSTEMS

TOWN: **NEW BRITAIN TO HARTFORD**

DRAWING TITLE: **REVISION SHEET**

PROJECT NO. **088-179**

DRAWING NO. **REV-01**

SHEET NO. **01.02.001**

Border Version: 10/19/07

ITS LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING HIGHWAY OPERATIONS IMS PULL BOX
- EXISTING HIGHWAY OPERATIONS JUNCTION BOX
- EXISTING CONDUIT
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET
- EXISTING POLE
- EXISTING POWER CABINET
- EXISTING COMMUNICATION CABINET
- EXISTING LIGHT POLE
- EXISTING HANDHOLE
- EXISTING JUNCTION BOX IN VAULTED ARCH
- PROPOSED SPEAKER
- PROPOSED EMERGENCY CALL BOX
- PROPOSED VARIABLE MESSAGE SIGN
- PROPOSED TICKET VENDING MACHINE
- PROPOSED TICKET VALIDATOR
- PROPOSED STATION CAMERA (PAN-TILT-ZOOM)
- PROPOSED CORRIDOR CAMERA
- HIGHWAY OPERATIONS IMS 4" MULTIDUCT CONDUIT TYPICAL INNERDUCT DETAIL

ABBREVIATIONS

BL	BASELINE
AVE.	AVENUE
CC	CAMERA CABLE
CCTV	CLOSED-CIRCUIT TELEVISION
COM	COMMUNICATION
EB	EAST BOUND
ECB	EMERGENCY CALL BOX
ENT	ENTRANCE
FOPC	FIBER OPTIC PATCH CORD
FPP	FIBER PATCH PANEL
HO	HIGHWAY OPERATIONS
ID	IDENTIFICATION
IMS	INCIDENT MANAGEMENT SYSTEM
ITS	INTELLIGENT TRANSPORTATION SYSTEM
LFT	LEFT
N/F	NOW OR FORMERLY
NB	NORTH BOUND
NO.	NUMBER
OCEF	OPTICAL CABLE ENTRANCE FACILITY
PBX	PUBLIC BRANCH EXCHANGE
RAD	READ-OUT ACTUATION DEVICE
REV.	REVISION
RMC	RIGID METAL CONDUIT
RPR	RESILIENT PACKET RING
RT	RIGHT
RTE.	ROUTE
SB	SOUTH BOUND
SMFO	SINGLE MODE FIBER OPTIC
SP	SPEAKER
ST	STREET
STA	STATION
STRC.	STRUCTURE
TIS	TRAVELER INFORMATION SYSTEM
TMSC	TRAFFIC MANAGEMENT SYSTEM CABINET
TV	TICKET VALIDATOR
TVM	TICKET VENDING MACHINE
TYP.	TYPICAL
UPS	UNINTERRUPTIBLE POWER SUPPLY
VMS	VARIABLE MESSAGE SIGN
WB	WEST BOUND

GENERAL NOTES

1. WORK UNDER THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH THE STATE OF CONNECTICUT, DEPARTMENT OF TRANSPORTATION, FORM 816 (2004), SUPPLEMENTAL SPECIFICATIONS DATED JULY 2010, AND SPECIAL PROVISIONS.

2. THE INFORMATION INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO DEPICT THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH SHALL BE REQUIRED.

3 THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BIDDING AND OTHER INFORMATION AND DOCUMENTS WHICH ARE OBTAINED THROUGH THE INTERNET, WORLD WIDE WEB SITES, OR OTHER SOURCES ARE NOT TO BE CONSTRUED TO BE OFFICIAL INFORMATION FOR THE PURPOSES OF BIDDING ON CONDUCTING OTHER BUSINESS WITH THE DEPARTMENT.

4. THE SURVEY INFORMATION AND MAPPING HAS BEEN PROVIDED BY MICHAEL BAKER ENGINEERING, INC. ROCKY HILL, CT AND THE CONNECTICUT DEPARTMENT OF TRANSPORTATION, DISTRICT 1 SURVEY AND IS BASED ON HORIZONTAL DATUM NAD 1983 AND VERTICAL DATUM NAVD 1929.

5. ALL DIMENSIONS AND ELEVATIONS MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE SUBMISSION OF WORKING DRAWINGS, PROCUREMENT OF MATERIALS AND START OF CONSTRUCTION. ALL ADJUSTMENTS SHALL BE REVIEWED BY THE ENGINEER.

6. THE CONTRACTOR SHALL IDENTIFY, LOCATE, AND PROTECT ALL EXISTING BOUNDS, MONUMENTS AND BENCH MARKS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER BEFORE ANY DISTURBANCE OR RELOCATION.

7. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL PROPERTIES AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ADEQUATE SIGHT DISTANCE FOR ALL DRIVEWAYS AND OTHER ACCESS POINTS DURING CONSTRUCTION.

8. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH OTHER CONSTRUCTION PROJECTS AFFECTING THIS PROJECT. ALL COORDINATION, INCLUDING BUT NOT LIMITED TO MEETINGS, SHALL BE PERFORMED IN ACCORDANCE WITH FORM 816, SECTION 1.05.07 THE COST OF ALL COORDINATION AND MEETINGS IS INCLUDED IN THE OVERALL COST OF THE PROJECT AND NO ADDITIONAL PAYMENTS WILL BE MADE TO THE CONTRACTOR.

9. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER ADJACENT CONTRACTS.
   - STATE PROJECT NO. 088-177 (CONTRACT 1)
   - STATE PROJECT NO. 088-178 (CONTRACT 2)
   - STATE PROJECT NO. 093-180 (CONTRACT 3)
   - STATE PROJECT NO. 063-670 (CONTRACT 4)
   - STATE PROJECT NO. 063-671 (CONTRACT 5 - BROAD STREET)

10. THE EXISTING UNDERGROUND STRUCTURES AND SERVICES ARE SHOWN AS NEAR THEIR CORRECT POSITION AS POSSIBLE. ALL LOCATIONS ARE APPROXIMATE ONLY AND ALL STRUCTURES OR SERVICES (ACTIVE OR ABANDONED) MAY NOT BE SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING SUBSURFACE INFORMATION. THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" TOLL FREE (1-800-922-4455) IN ACCORDANCE WITH STATE REQUIREMENTS.

11. REFER TO FORM 816 SECTION 1.08 "PROSECUTION AND PROGRESS" AND SPECIFICATIONS FOR LIMITATION OF OPERATIONS AND SPECIAL CONDITIONS ON CONTRACTOR'S WORK.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\current\TR_MSH_GEN_088_179.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

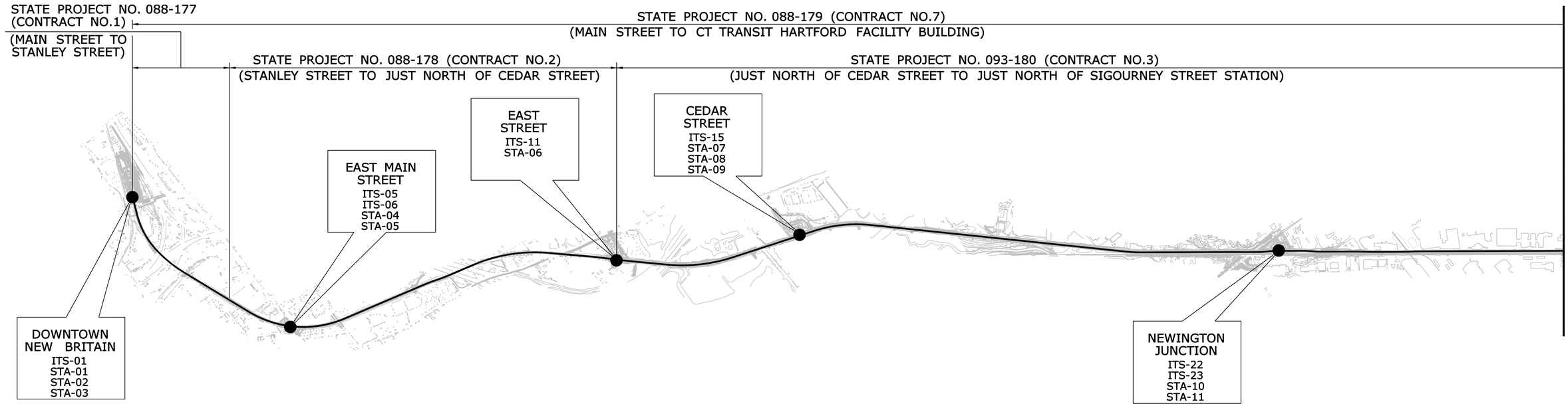
PROJECT TITLE: CTfastrak
ITS & COMMUNICATIONS SYSTEMS

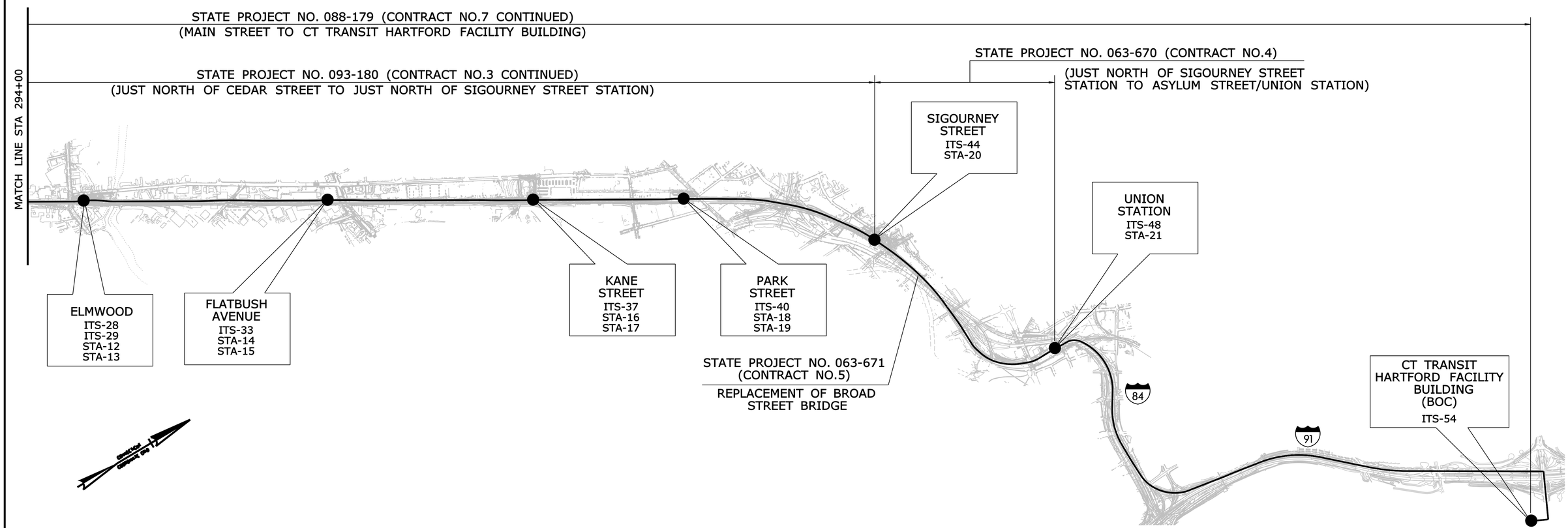
TOWN: NEW BRITAIN TO HARTFORD

DRAWING TITLE: GENERAL NOTES LEGEND AND ABBREVIATIONS

PROJECT NO. 088-179
DRAWING NO. GEN-01
SHEET NO. 01.03.001

Border Version: 10/19/07





REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: **LM/SM**

CHECKED BY: **CHP**

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\current\TR..MSH..INX..088..179.dgn

SIGNATURE/ BLOCK:

IBI GROUP

IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA

tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:

CT*fastrak*

ITS & COMMUNICATIONS SYSTEMS

TOWN: **NEW BRITAIN TO HARTFORD**

DRAWING TITLE: **INDEX PLAN**

PROJECT NO. **088-179**

DRAWING NO. **INX-01**

SHEET NO. **01.04.001**

Border Version: 10/19/07

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE

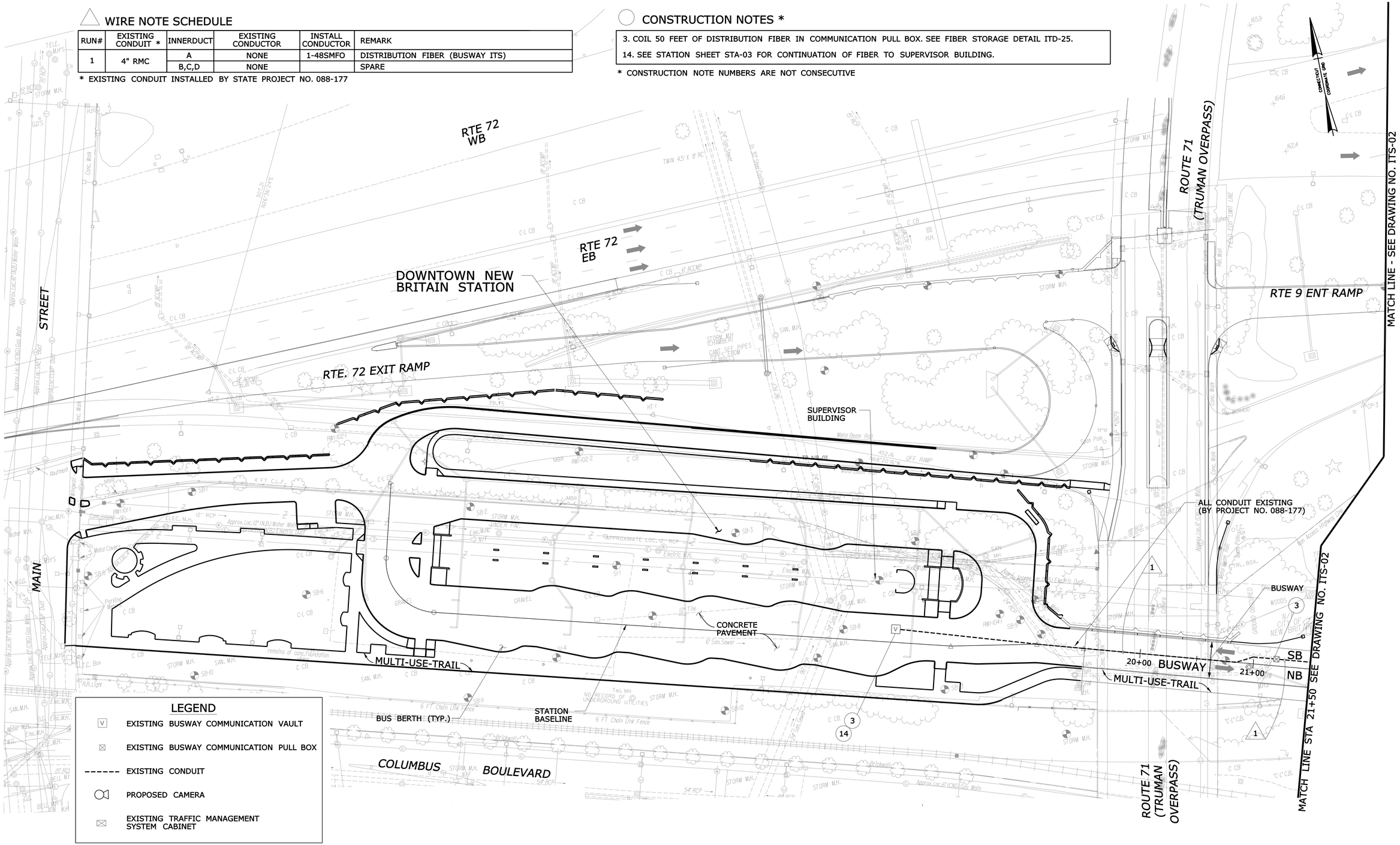
* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 088-177

CONSTRUCTION NOTES *

3. COIL 50 FEET OF DISTRIBUTION FIBER IN COMMUNICATION PULL BOX. SEE FIBER STORAGE DETAIL ITD-25.

14. SEE STATION SHEET STA-03 FOR CONTINUATION OF FIBER TO SUPERVISOR BUILDING.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM

CHECKED BY: CHP

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..ITS-01.dgn

IBI GROUP

IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA

tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:

CTfastrak

ITS & COMMUNICATIONS SYSTEMS

TOWN: **NEW BRITAIN**

DRAWING TITLE: **COMMUNICATION CORRIDOR PLAN**

PROJECT NO. **088-179**

DRAWING NO. **ITS-01**

SHEET NO. **01.05.001**

Border Version: 10/19/07

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 088-177

CONSTRUCTION NOTES *

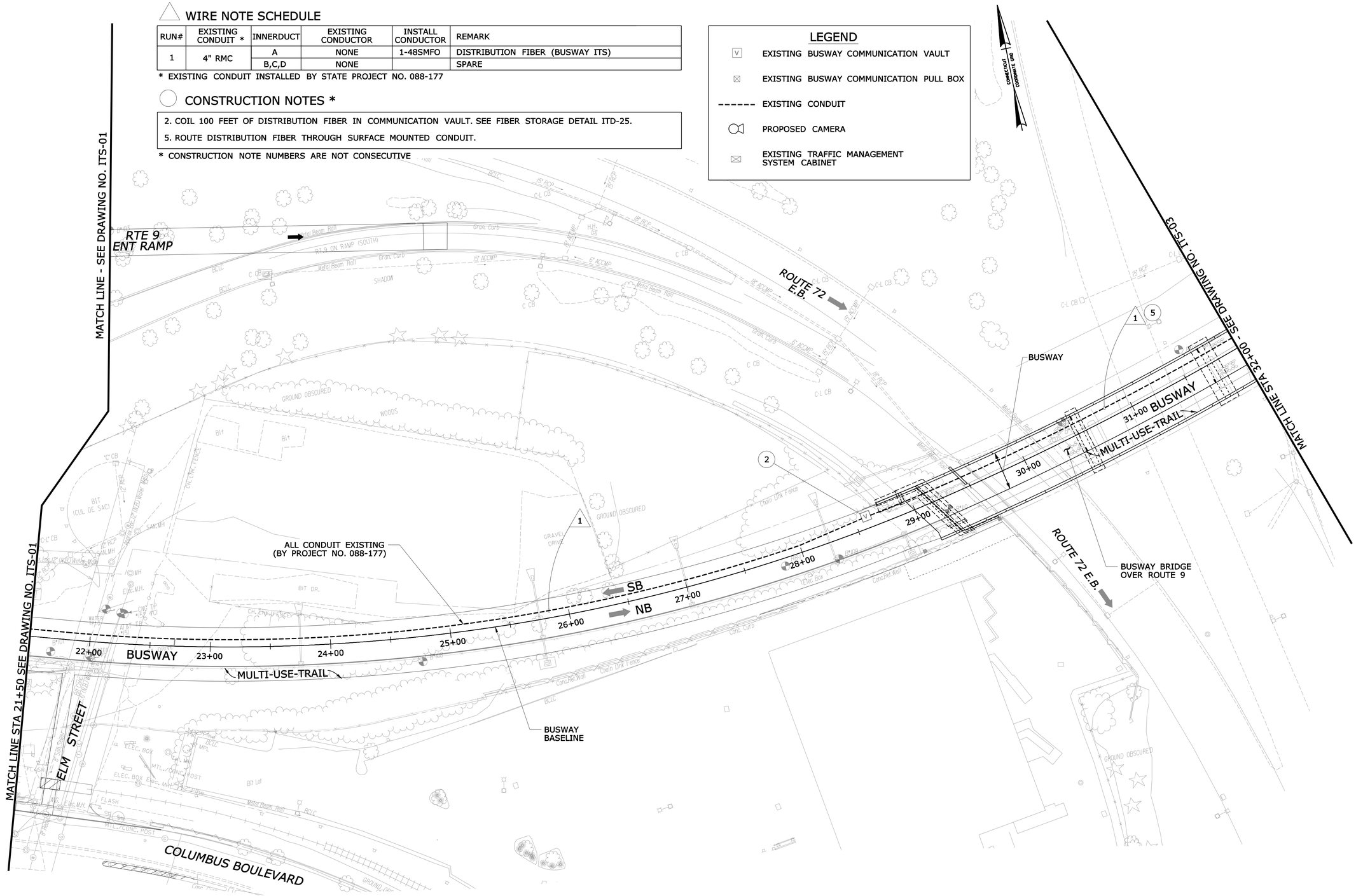
2. COIL 100 FEET OF DISTRIBUTION FIBER IN COMMUNICATION VAULT. SEE FIBER STORAGE DETAIL ITD-25.

5. ROUTE DISTRIBUTION FIBER THROUGH SURFACE MOUNTED CONDUIT.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM

CHECKED BY: CHP

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..ITS-02.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN

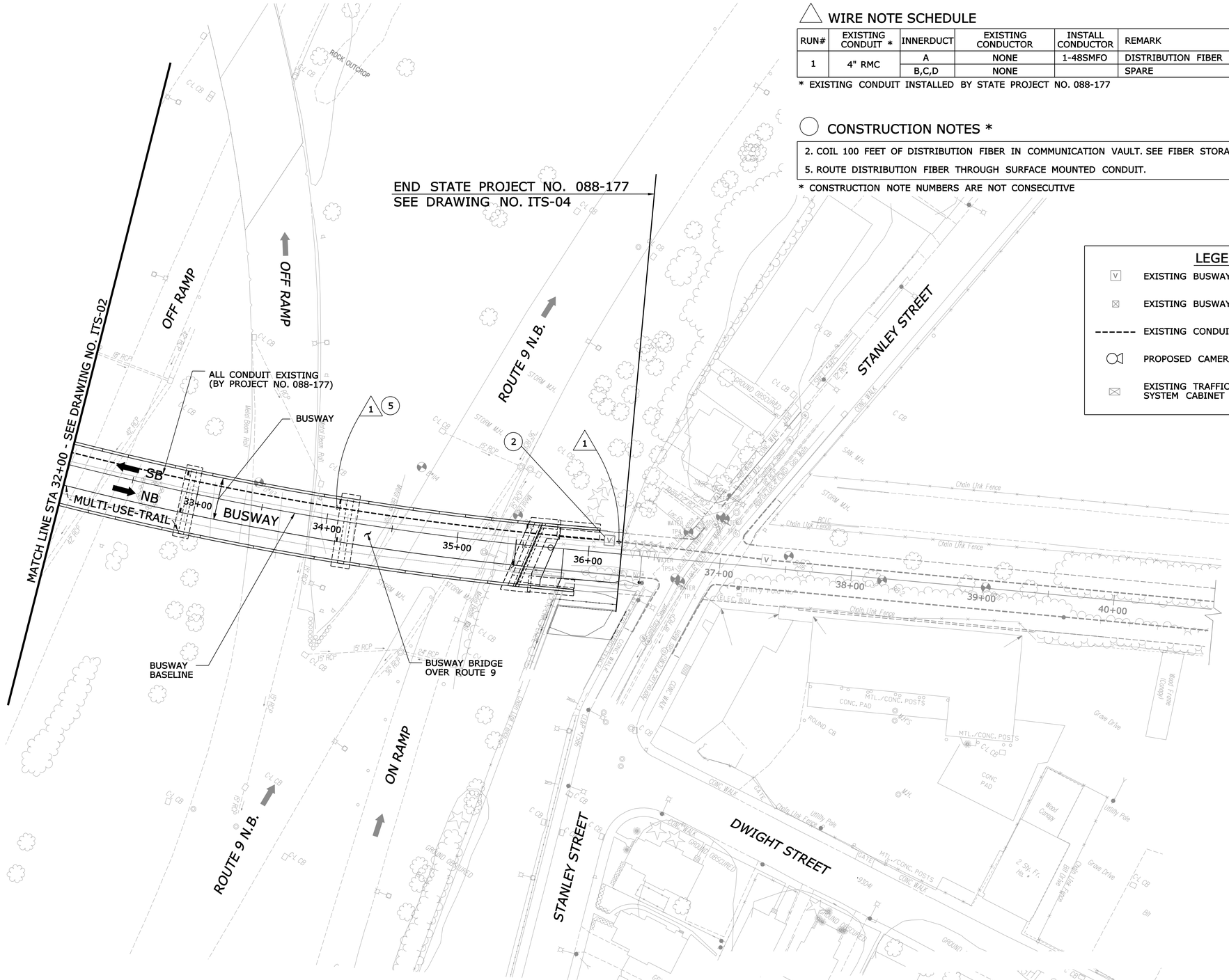
DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179

DRAWING NO. ITS-02

SHEET NO. 01.05.002

Border Version: 10/19/07



WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 088-177

CONSTRUCTION NOTES *

2. COIL 100 FEET OF DISTRIBUTION FIBER IN COMMUNICATION VAULT. SEE FIBER STORAGE DETAIL ITD-25.
5. ROUTE DISTRIBUTION FIBER THROUGH SURFACE MOUNTED CONDUIT.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..ITS-03.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN

DRAWING TITLE:
COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179
DRAWING NO. ITS-03
SHEET NO. 01.05.003

Border Version: 10/19/07

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE
3	2" RMC		NONE	1-12SMFO	FIBER DROP
6	2" RMC		NONE	1-CC, 2-#14	CAMERA CABLE, CAMERA POWER
7	2" RMC		NONE	1-12SMFO	FIBER DROP
			NONE	1-CC	CAMERA CABLE
	2" RMC		NONE	2-#14	CAMERA POWER
8	3" RMC		NONE		CABINET POWER (BY PROJECT NO. 088-178)

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 088-178

CONSTRUCTION NOTES *

1. FURNISH AND INSTALL FIBER SPLICE ENCLOSURE IN COMMUNICATION VAULT. COIL 100 FEET OF DISTRIBUTION FIBER AND 50 FEET OF EACH DROP FIBER. SPLICE DISTRIBUTION FIBER TO DROP FIBER IN SPLICE ENCLOSURE. SEE ITD-08 AND ITD-25 FOR DETAILS.

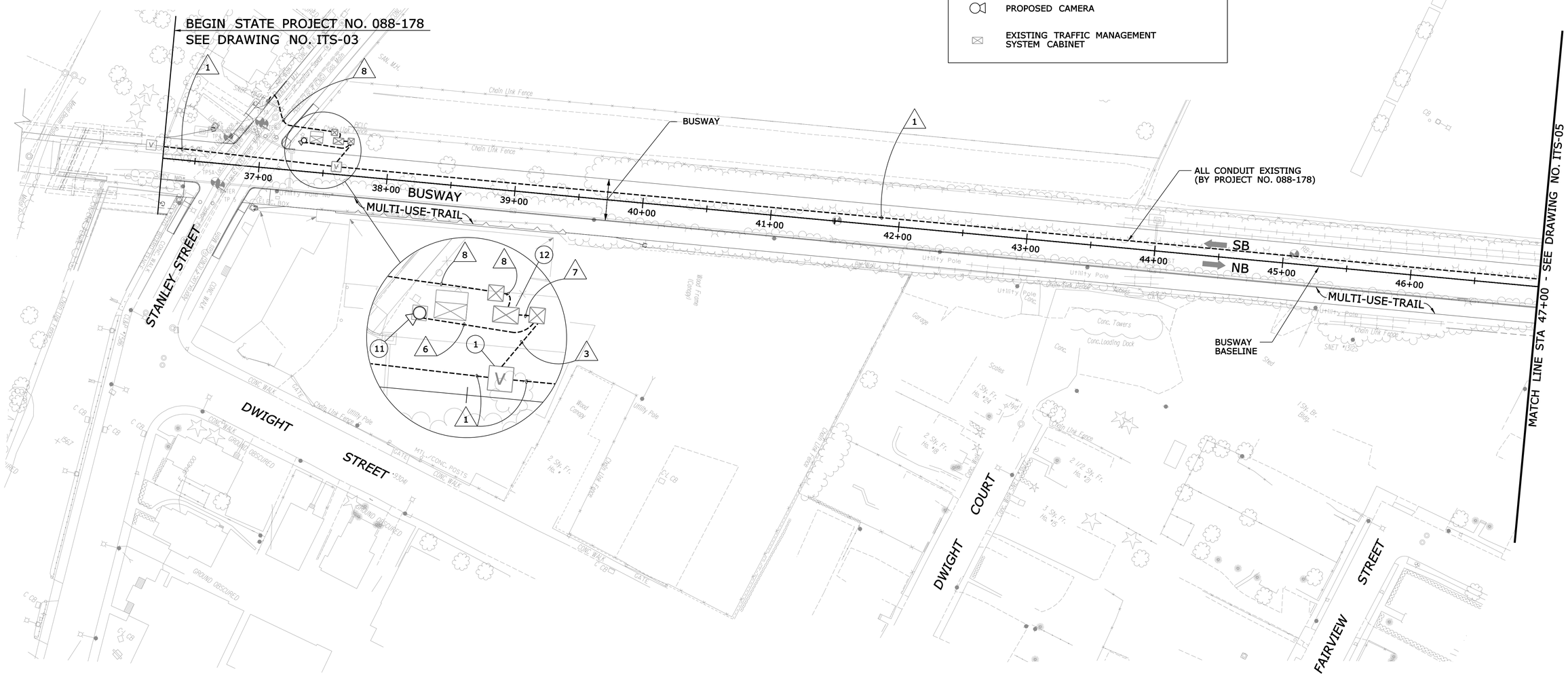
11. FURNISH AND INSTALL NEW CCTV CAMERA AND CONTROL CABLES ON EXISTING TRAFFIC POLE. ROUTE CAMERA CONTROL CABLE TO ETHERNET SWITCH IN EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET. SEE BUSWAY CAMERA DETAIL ITD-13.

12. INSTALL NEW FIBER PATCH PANEL AND ETHERNET SWITCH INSIDE EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET. MAKE FIBER CONNECTION TO GIGABIT ETHERNET SWITCH USING SINGLE MODE PATCH CORDS. SEE BUSWAY CABINET DETAIL ITD-14.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..ITS-04.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN & NEWINGTON

DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179
DRAWING NO. ITS-04
SHEET NO. 01.05.004

Border Version: 10/19/07

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 088-178

CONSTRUCTION NOTES *

1. FURNISH AND INSTALL FIBER SPLICE ENCLOSURE IN COMMUNICATION VAULT. COIL 100 FEET OF DISTRIBUTION FIBER AND 50 FEET OF EACH DROP FIBER. SPLICE DISTRIBUTION FIBER TO DROP FIBER IN SPLICE ENCLOSURE. SEE ITD-08 AND ITD-25 FOR DETAILS.

2. COIL 100 FEET OF DISTRIBUTION FIBER IN COMMUNICATION VAULT. SEE FIBER STORAGE DETAIL ITD-25.

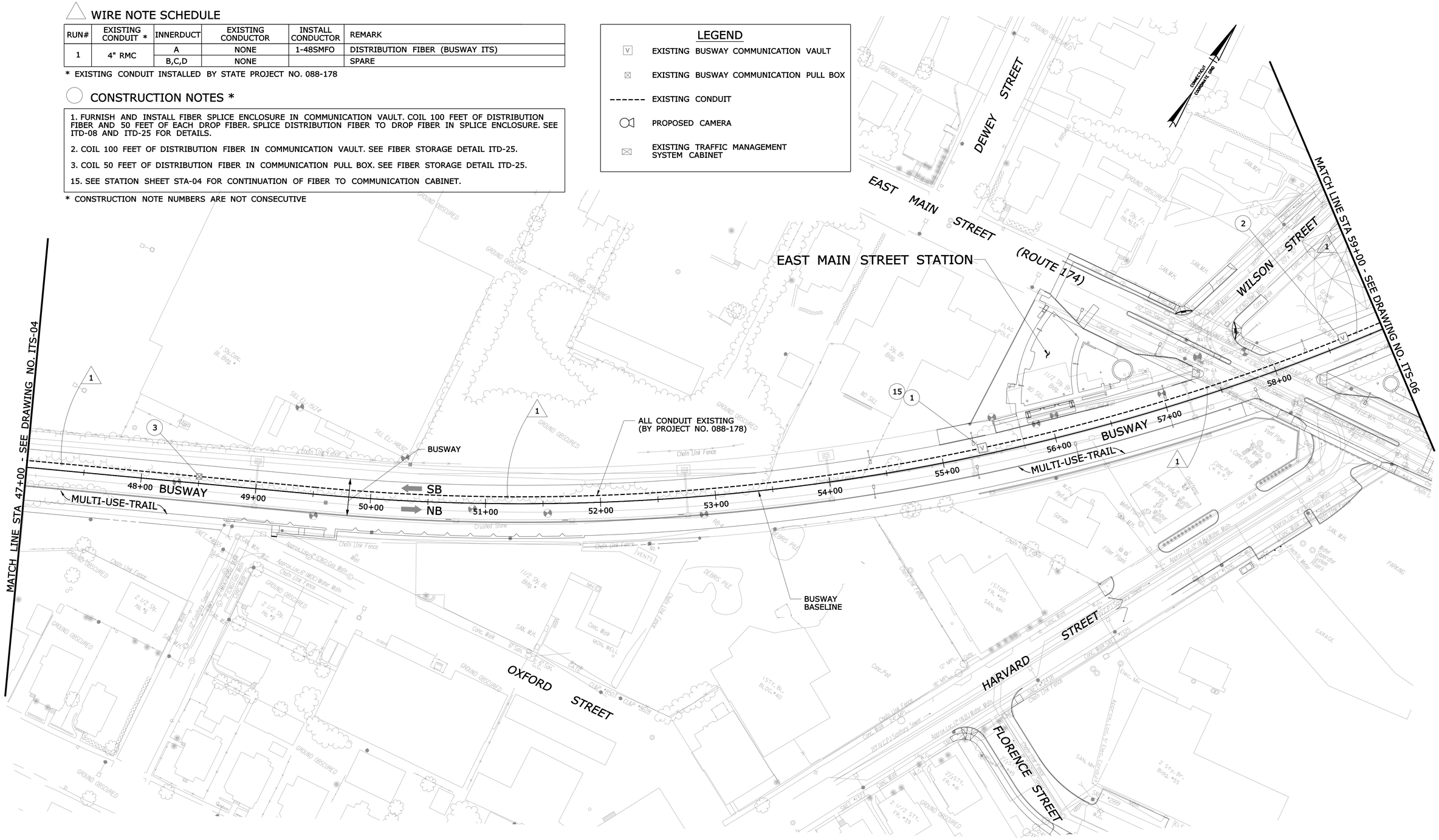
3. COIL 50 FEET OF DISTRIBUTION FIBER IN COMMUNICATION PULL BOX. SEE FIBER STORAGE DETAIL ITD-25.

15. SEE STATION SHEET STA-04 FOR CONTINUATION OF FIBER TO COMMUNICATION CABINET.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_PLN_088_179_ITS-05.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN & NEWINGTON

DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179
DRAWING NO. ITS-05
SHEET NO. 01.05.005

Border Version: 10/19/07

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE
3	2" RMC		NONE	1-12SMFO	FIBER DROP
6	2" RMC		NONE	1-CC, 2-#14	CAMERA CABLE, CAMERA POWER
7	2" RMC		NONE	1-12SMFO	FIBER DROP
			NONE	1-CC	CAMERA CABLE
	2" RMC		NONE	2-#14	CAMERA POWER
8	3" RMC		NONE		CABINET POWER (BY PROJECT NO. 088-178)

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 088-178

CONSTRUCTION NOTES *

1. FURNISH AND INSTALL FIBER SPLICE ENCLOSURE IN COMMUNICATION VAULT. COIL 100 FEET OF DISTRIBUTION FIBER AND 50 FEET OF EACH DROP FIBER. SPLICE DISTRIBUTION FIBER TO DROP FIBER IN SPLICE ENCLOSURE. SEE ITD-08 AND ITD-25 FOR DETAILS.

11. FURNISH AND INSTALL NEW CCTV CAMERA AND CONTROL CABLES ON EXISTING TRAFFIC POLE. ROUTE CAMERA CONTROL CABLE TO ETHERNET SWITCH IN EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET. SEE BUSWAY CAMERA DETAIL ITD-13.

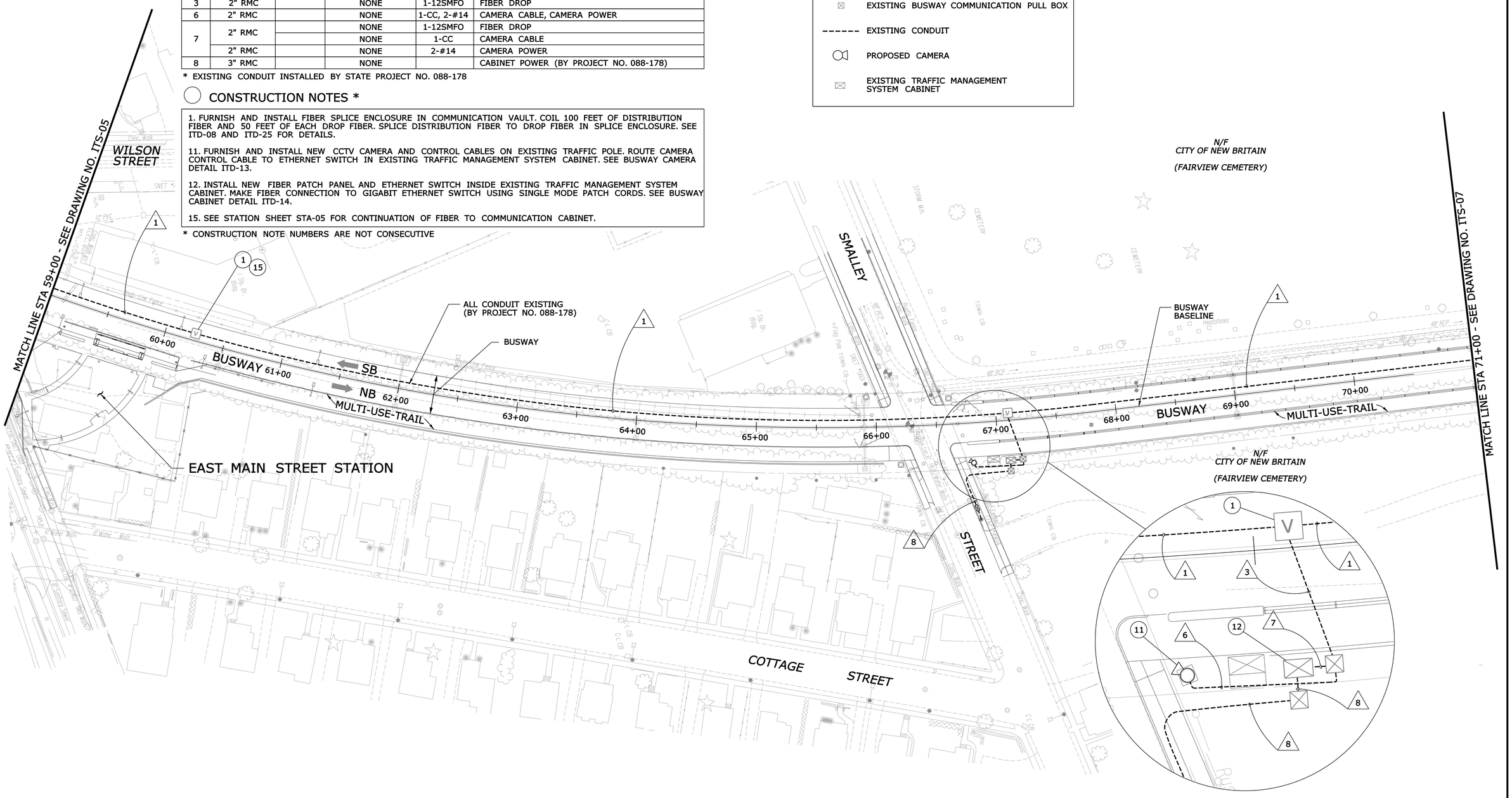
12. INSTALL NEW FIBER PATCH PANEL AND ETHERNET SWITCH INSIDE EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET. MAKE FIBER CONNECTION TO GIGABIT ETHERNET SWITCH USING SINGLE MODE PATCH CORDS. SEE BUSWAY CABINET DETAIL ITD-14.

15. SEE STATION SHEET STA-05 FOR CONTINUATION OF FIBER TO COMMUNICATION CABINET.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..ITS-06.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN & NEWINGTON

DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179
DRAWING NO. ITS-06
SHEET NO. 01.05.006

Border Version: 10/19/07

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 088-178

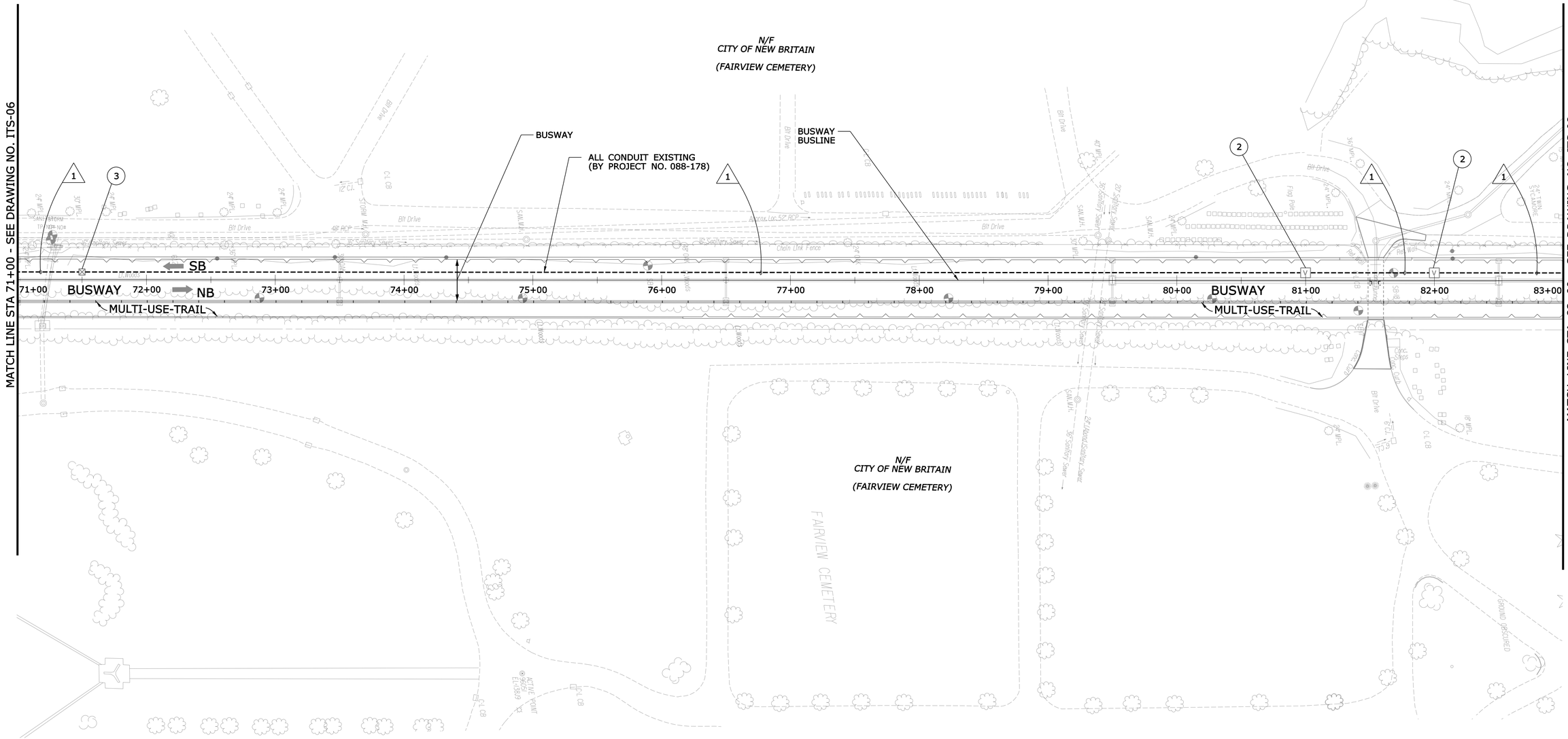
CONSTRUCTION NOTES *

2. COIL 100 FEET OF DISTRIBUTION FIBER IN COMMUNICATION VAULT. SEE FIBER STORAGE DETAIL ITD-25.
3. COIL 50 FEET OF DISTRIBUTION FIBER IN COMMUNICATION PULL BOX. SEE FIBER STORAGE DETAIL ITD-25.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..ITS-07.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN & NEWINGTON

DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179
DRAWING NO. ITS-07
SHEET NO. 01.05.007

Border Version: 10/19/07

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 088-178

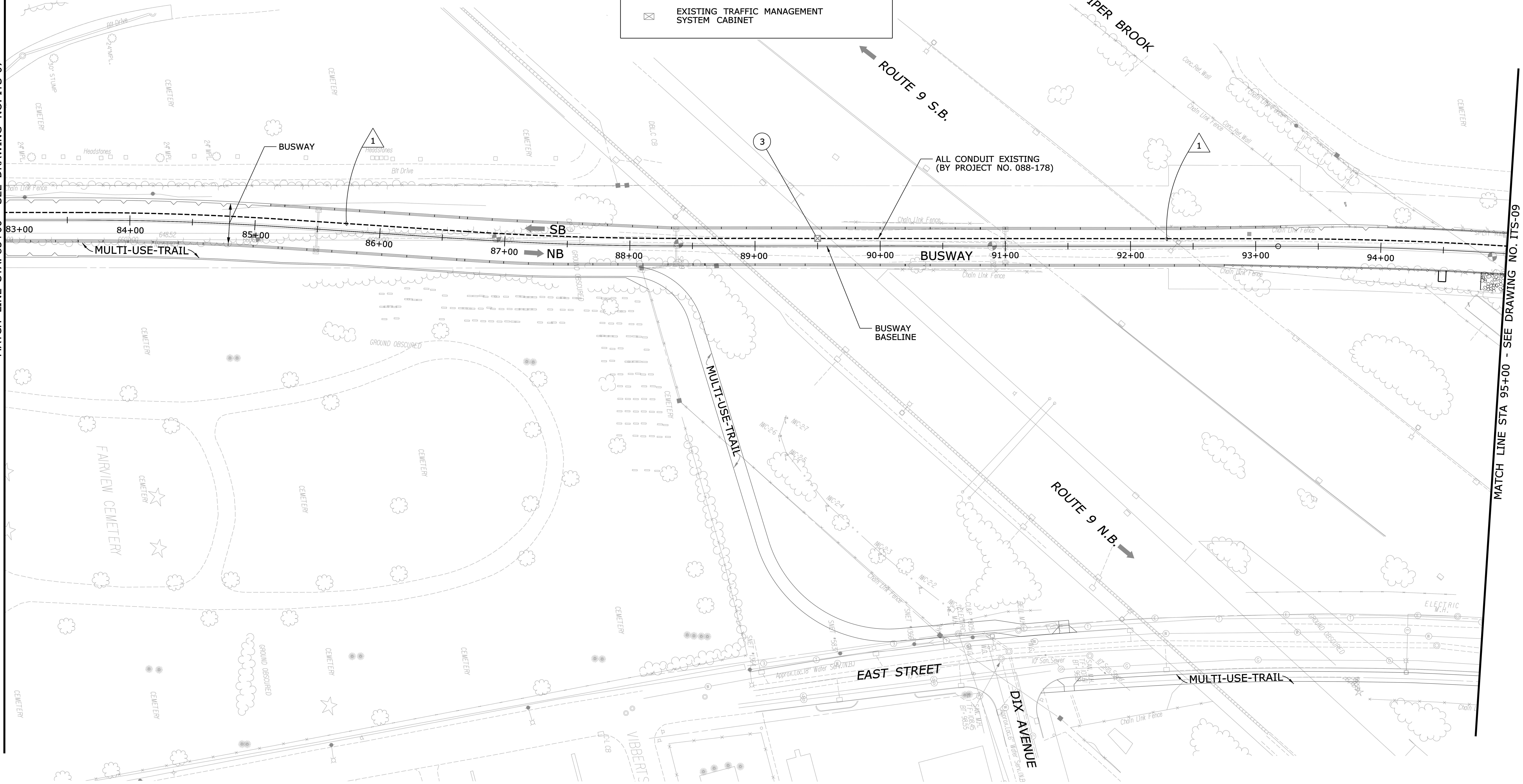
CONSTRUCTION NOTES *

3. COIL 50 FEET OF DISTRIBUTION FIBER IN COMMUNICATION PULL BOX. SEE FIBER STORAGE DETAIL ITD-25.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: **LM/SM**

CHECKED BY: **CHP**

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_PLN_088_179_ITS-08.dgn

IBI GROUP

IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE: **CT*fastrak***
ITS & COMMUNICATIONS SYSTEMS

TOWN: **NEW BRITAIN & NEWINGTON**

DRAWING TITLE: **COMMUNICATION CORRIDOR PLAN**

PROJECT NO. **088-179**

DRAWING NO. **ITS-08**

SHEET NO. **01.05.008**

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 088-178

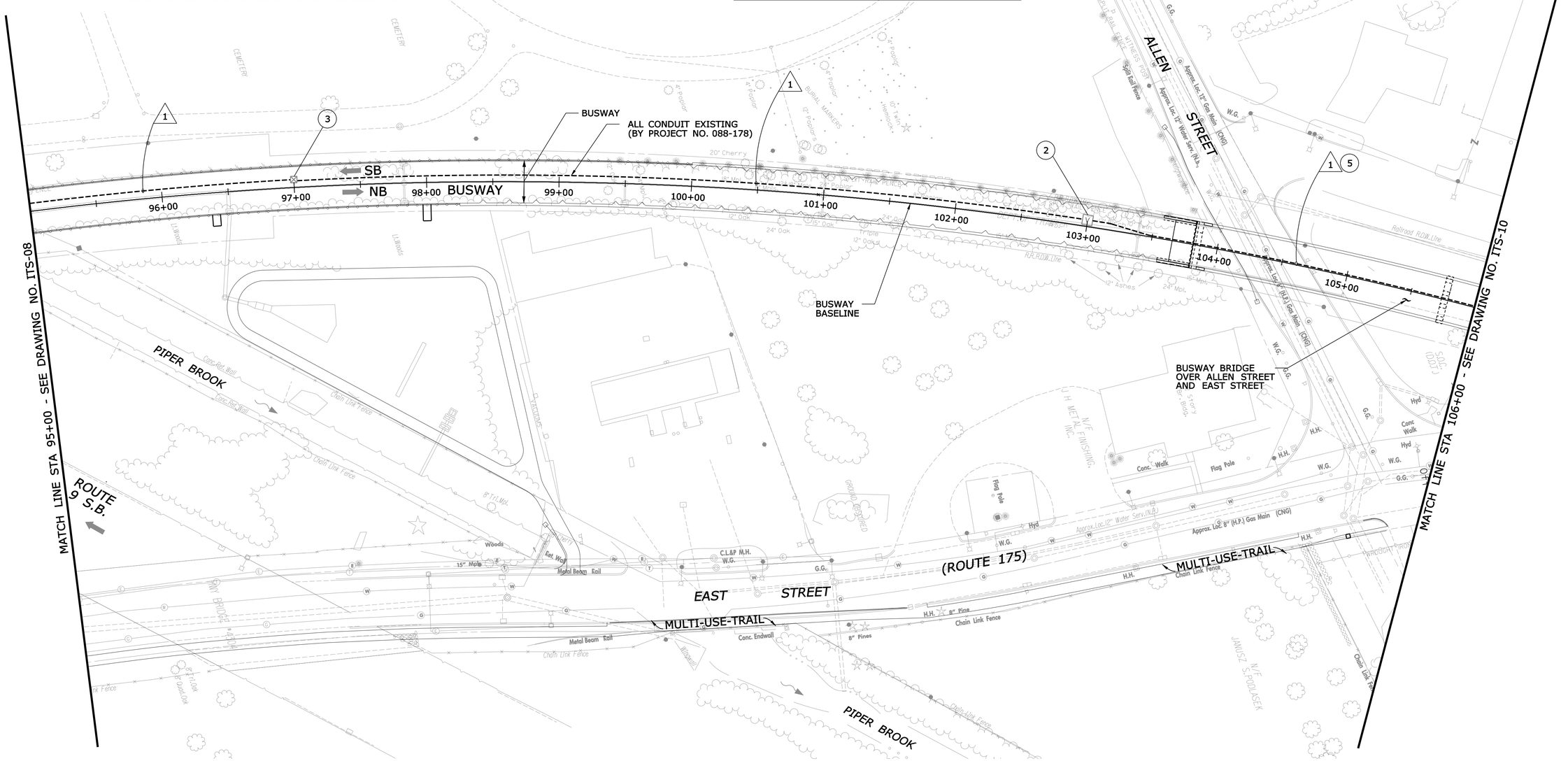
CONSTRUCTION NOTES *

2. COIL 100 FEET OF DISTRIBUTION FIBER IN COMMUNICATION VAULT. SEE FIBER STORAGE DETAIL ITD-25.
3. COIL 50 FEET OF DISTRIBUTION FIBER IN COMMUNICATION PULL BOX. SEE FIBER STORAGE DETAIL ITD-25.
5. ROUTE DISTRIBUTION FIBER THROUGH SURFACE MOUNTED CONDUIT.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..ITS-09.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN & NEWINGTON

DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179
DRAWING NO. ITS-09
SHEET NO. 01.05.009

Border Version: 10/19/07

△ WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 088-178

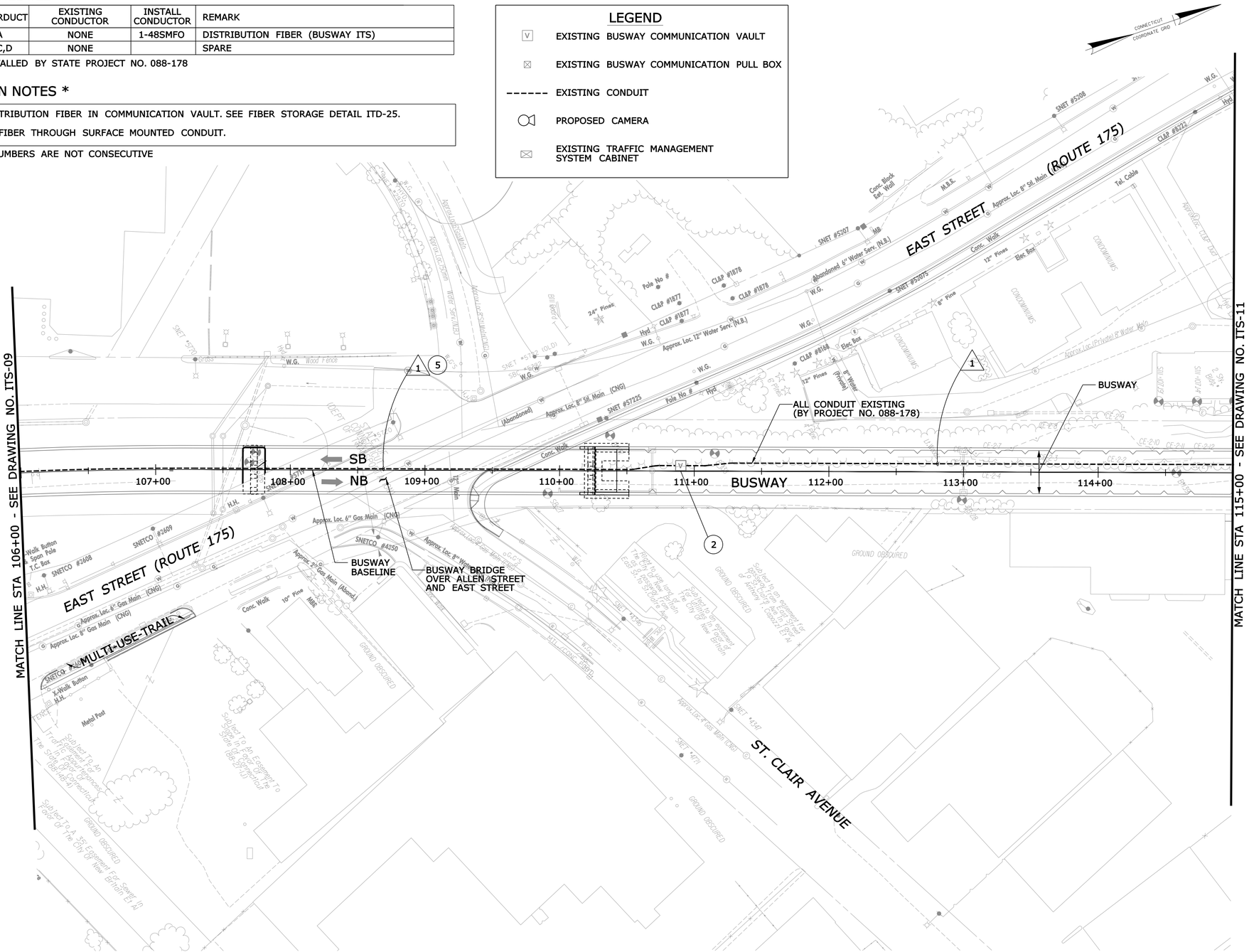
◯ CONSTRUCTION NOTES *

2. COIL 100 FEET OF DISTRIBUTION FIBER IN COMMUNICATION VAULT. SEE FIBER STORAGE DETAIL ITD-25.
5. ROUTE DISTRIBUTION FIBER THROUGH SURFACE MOUNTED CONDUIT.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_PLN_088_179_ITS-10.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN & NEWINGTON

DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179
DRAWING NO. ITS-10
SHEET NO. 01.05.010

Border Version: 10/19/07

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE

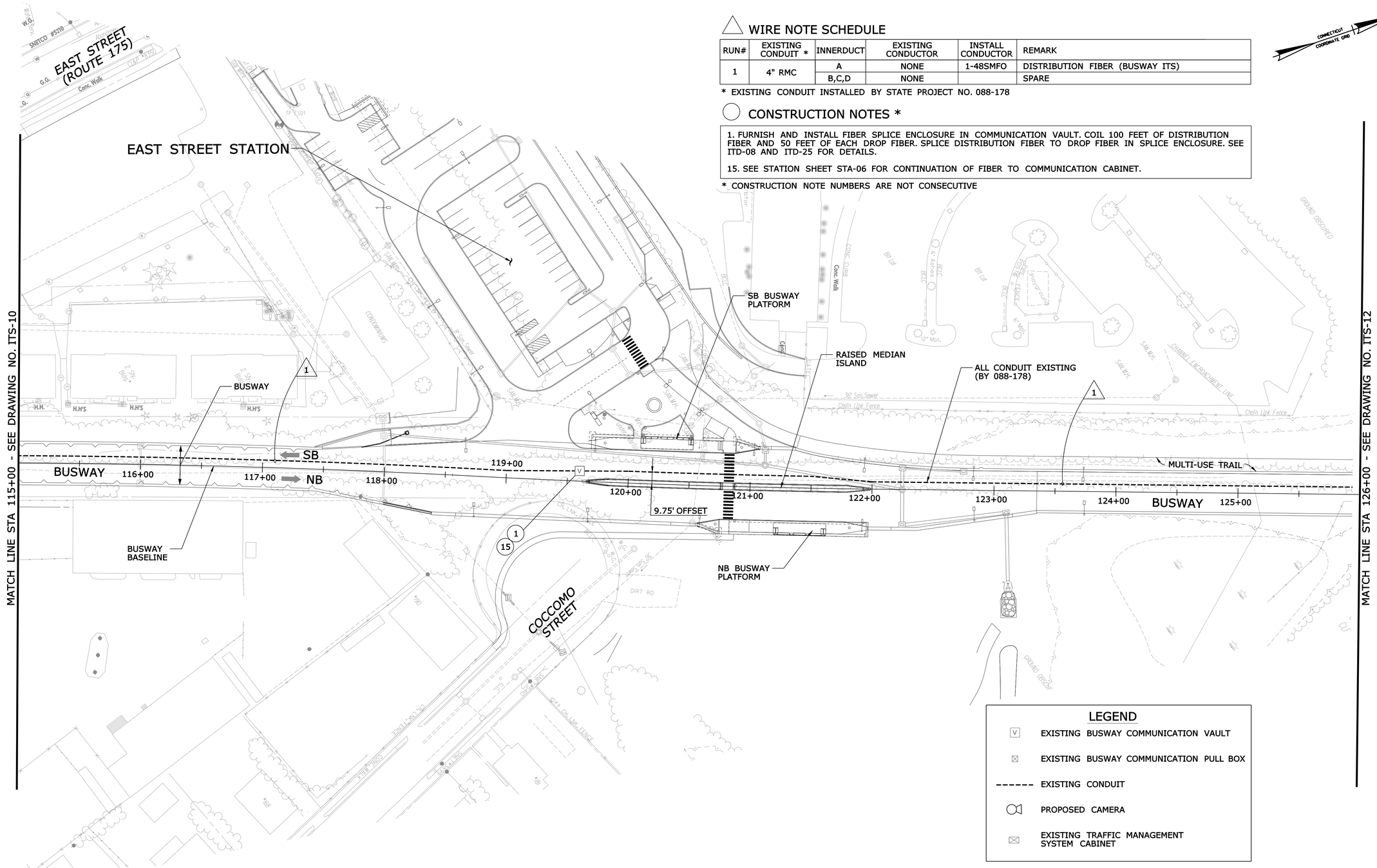
* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 088-178

CONSTRUCTION NOTES *

1. FURNISH AND INSTALL FIBER SPLICE ENCLOSURE IN COMMUNICATION VAULT. COIL 100 FEET OF DISTRIBUTION FIBER AND 50 FEET OF EACH DROP FIBER. SPLICE DISTRIBUTION FIBER TO DROP FIBER IN SPLICE ENCLOSURE. SEE ITD-08 AND ITD-25 FOR DETAILS.

15. SEE STATION SHEET STA-06 FOR CONTINUATION OF FIBER TO COMMUNICATION CABINET.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_PLN_088_179_ITS-11.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN & NEWINGTON

DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179
DRAWING NO. ITS-11
SHEET NO. 01.01.011

Border Version: 10/19/07

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 088-178

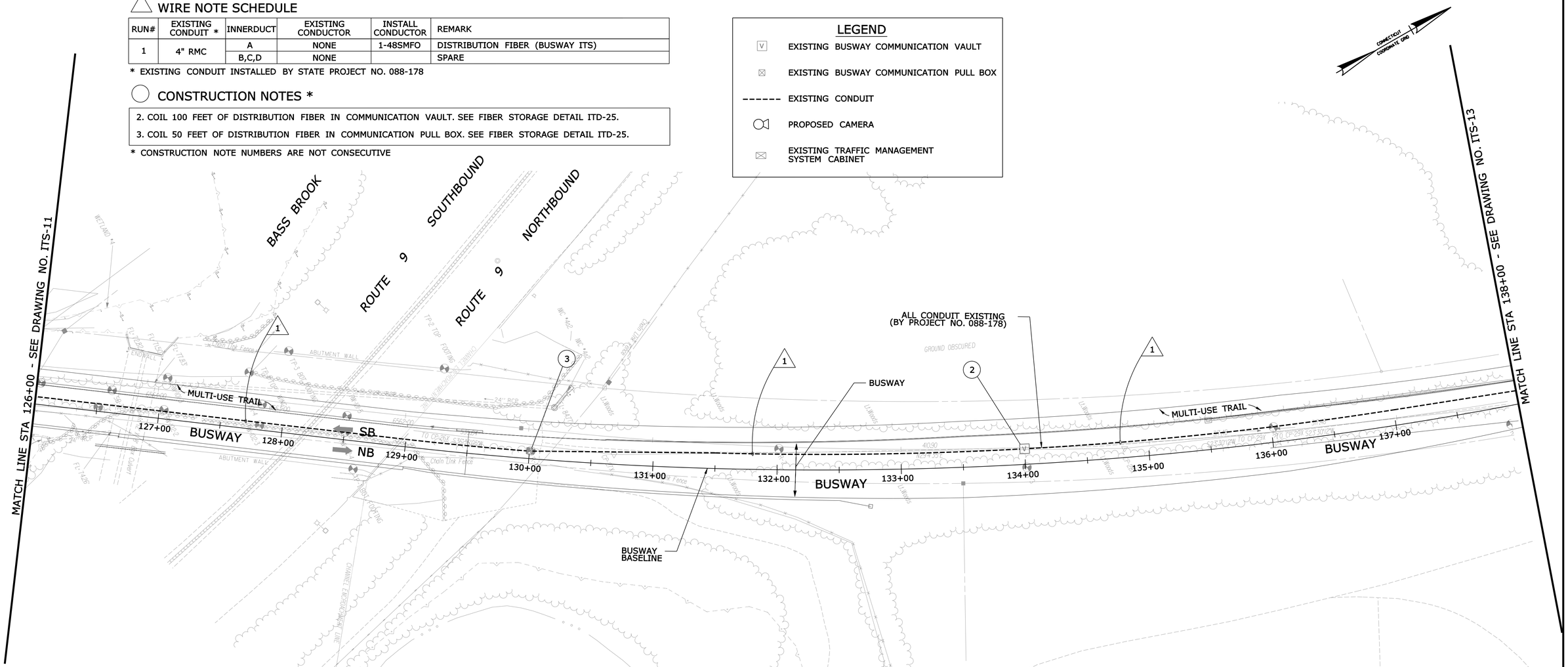
CONSTRUCTION NOTES *

2. COIL 100 FEET OF DISTRIBUTION FIBER IN COMMUNICATION VAULT. SEE FIBER STORAGE DETAIL ITD-25.
3. COIL 50 FEET OF DISTRIBUTION FIBER IN COMMUNICATION PULL BOX. SEE FIBER STORAGE DETAIL ITD-25.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_PLN_088_179_ITS-12.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN & NEWINGTON

DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179
DRAWING NO. ITS-12
SHEET NO. 01.05.012

Border Version: 10/19/07

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 088-178

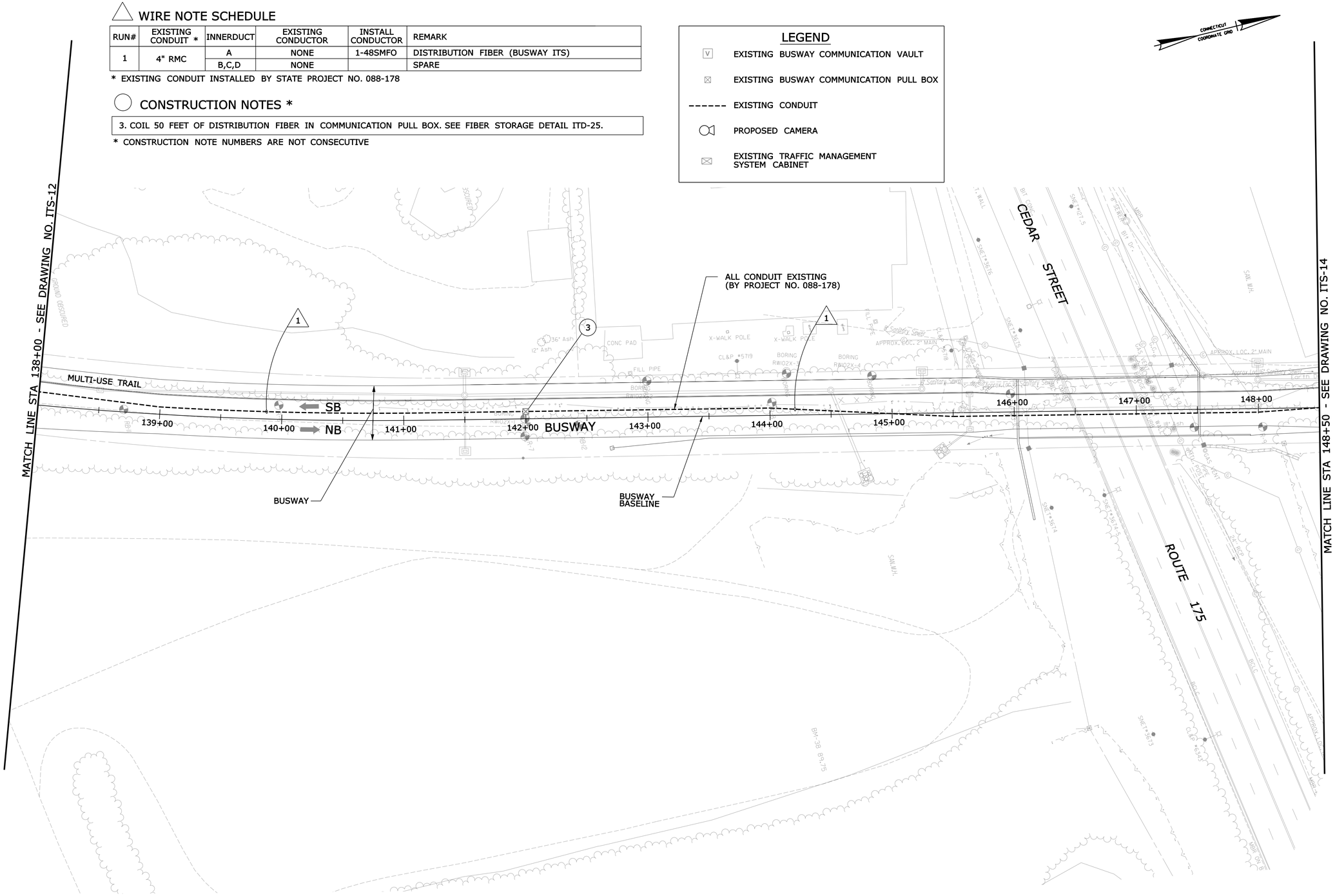
CONSTRUCTION NOTES *

3. COIL 50 FEET OF DISTRIBUTION FIBER IN COMMUNICATION PULL BOX. SEE FIBER STORAGE DETAIL ITD-25.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..ITS-13.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN & NEWINGTON

DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

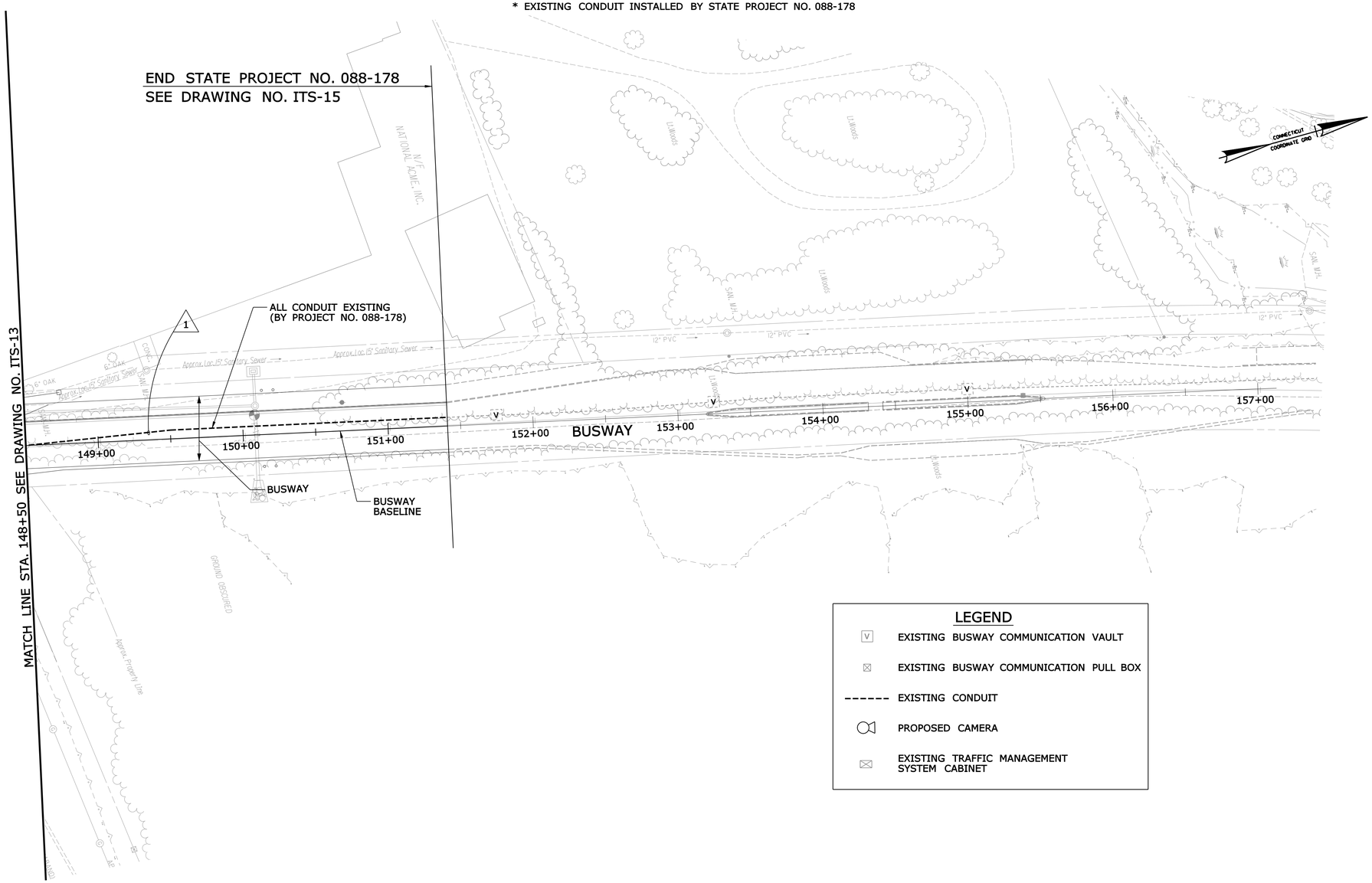
PROJECT NO. 088-179
DRAWING NO. ITS-13
SHEET NO. 01.05.013

Border Version: 10/19/07

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 088-178



LEGEND

- V — EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_PLN_088_179_ITS-14.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

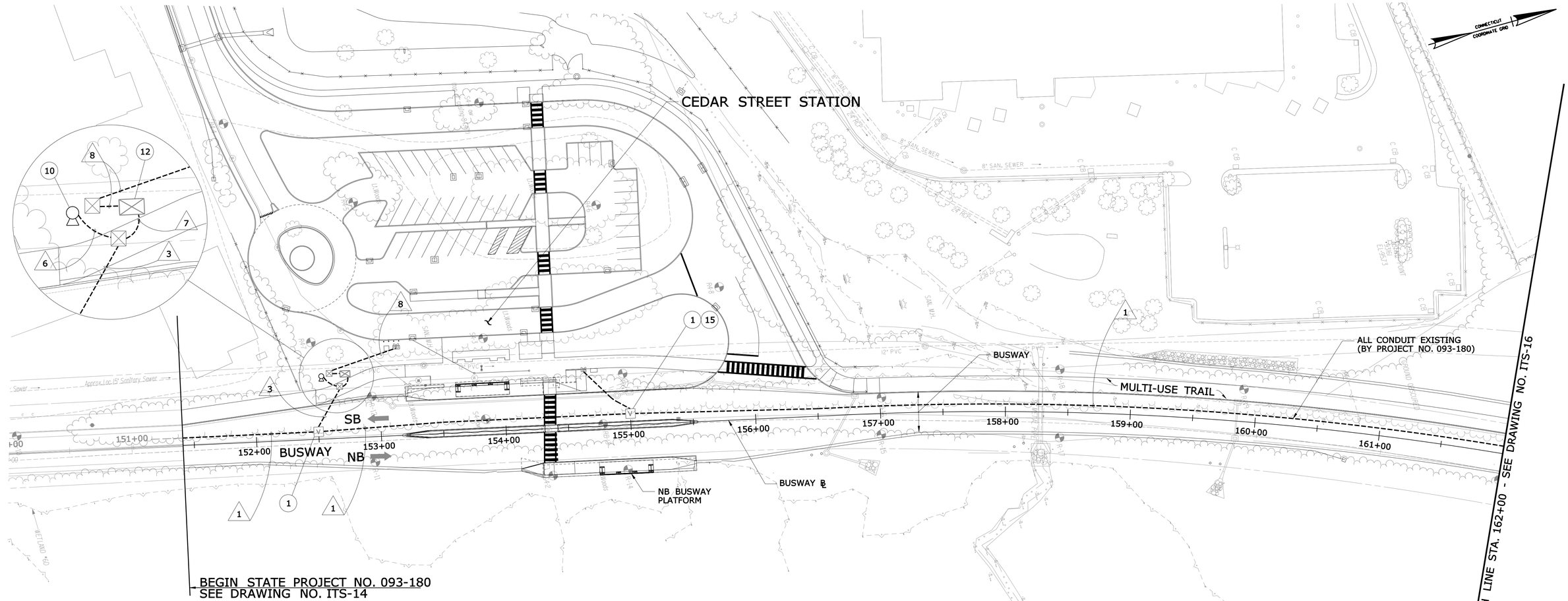
PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN & NEWINGTON

DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179
DRAWING NO. ITS-14
SHEET NO. 01.05.014

Border Version: 10/19/07



WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE
3	2" RMC		NONE	1-12SMFO	FIBER DROP
6	2" RMC		NONE	1-CC, 2-#14	CAMERA CABLE, CAMERA POWER
7	2" RMC		NONE	1-12SMFO	FIBER DROP
			NONE	1-CC	CAMERA CABLE
	2" RMC		NONE	2-#14	CAMERA POWER
8	3" RMC		NONE		CABINET POWER (BY PROJECT NO. 093-180)

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 093-180

CONSTRUCTION NOTES *

1. FURNISH AND INSTALL FIBER SPLICE ENCLOSURE IN COMMUNICATION VAULT. COIL 100 FEET OF DISTRIBUTION FIBER AND 50 FEET OF EACH DROP FIBER. SPLICE DISTRIBUTION FIBER TO DROP FIBER IN SPLICE ENCLOSURE. SEE ITD-08 AND ITD-25 FOR DETAILS.

10. FURNISH AND INSTALL NEW CCTV CAMERA & CONTROL CABLE ON EXISTING 70 FT POLE. ROUTE CAMERA CONTROL CABLE TO ETHERNET SWITCH IN EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET. SEE BUSWAY CAMERA DETAIL ITD-13.

12. INSTALL NEW FIBER PATCH PANEL AND ETHERNET SWITCH INSIDE EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET. MAKE FIBER CONNECTION TO GIGABIT ETHERNET SWITCH USING SINGLE MODE PATCH CORDS. SEE BUSWAY CABINET DETAIL ITD-14.

15. SEE STATION SHEET STA-09 FOR CONTINUATION OF FIBER TO COMMUNICATION CABINET.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..ITS-15.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE: CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179
DRAWING NO. ITS-15
SHEET NO. 01.05.015

Border Version: 10/19/07

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE

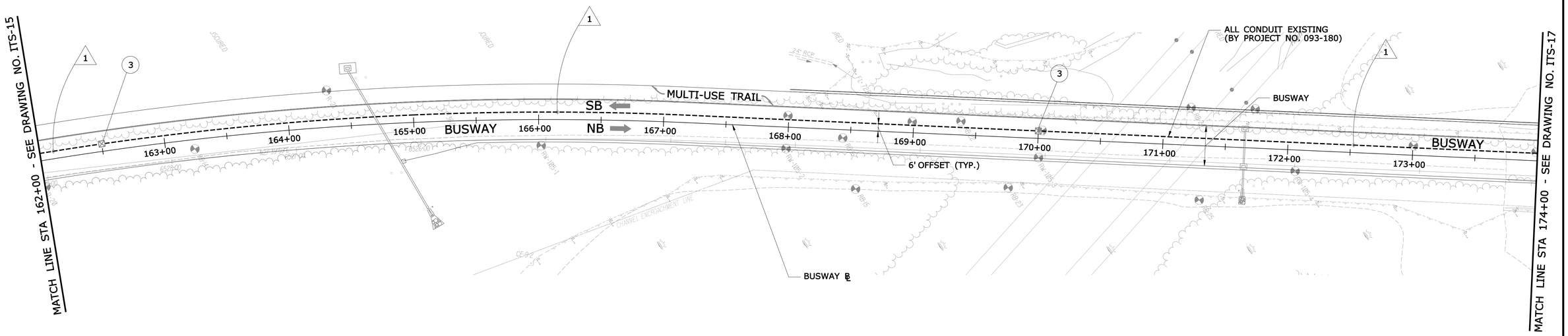
* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 093-180

3. COIL 50 FEET OF DISTRIBUTION FIBER IN COMMUNICATION PULL BOX. SEE FIBER STORAGE DETAIL ITD-25.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_PLN_088_179_ITS-16.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179
DRAWING NO. ITS-16
SHEET NO. 01.05.016

Border Version: 10/19/07

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 093-180

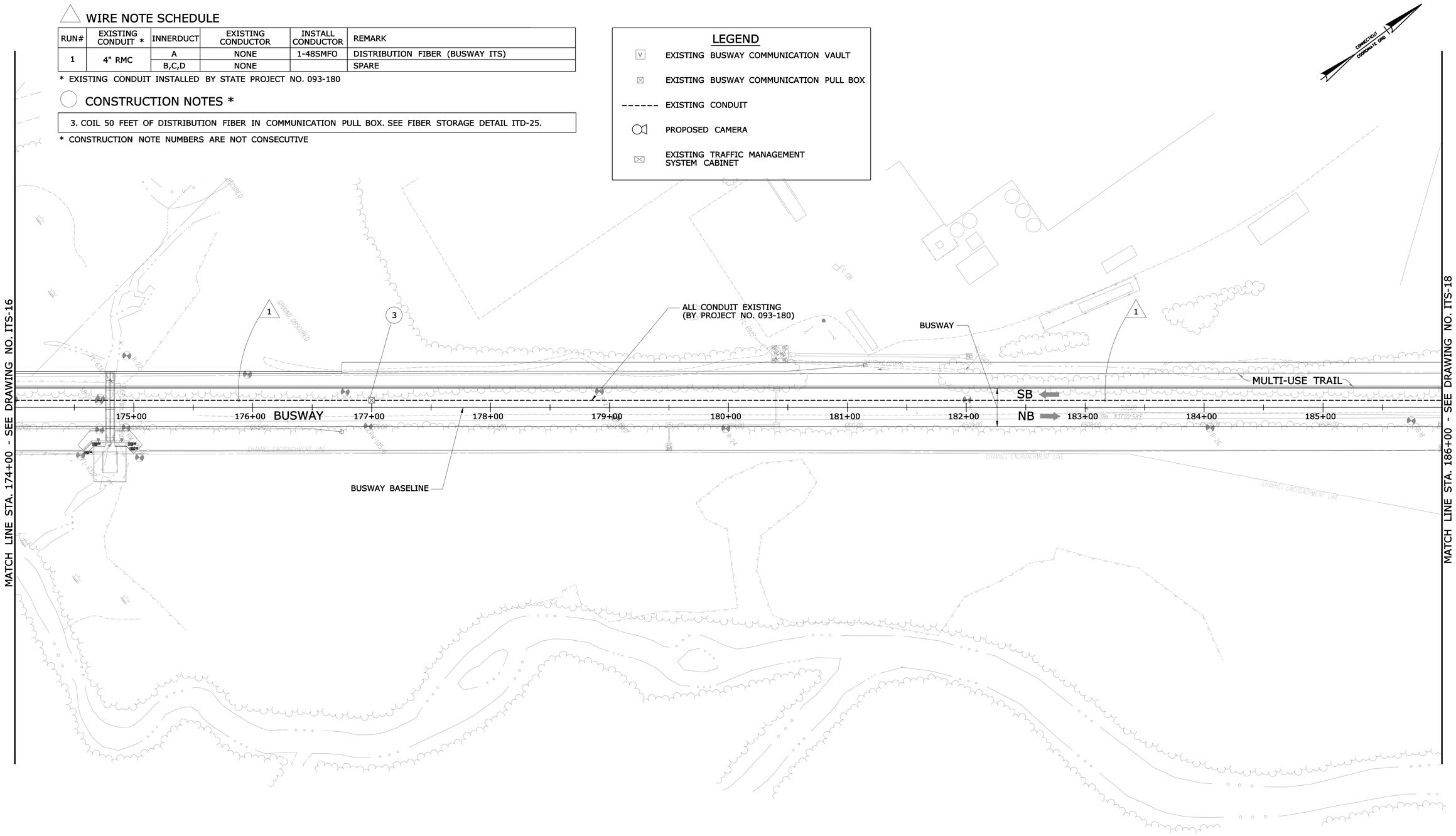
CONSTRUCTION NOTES *

3. COIL 50 FEET OF DISTRIBUTION FIBER IN COMMUNICATION PULL BOX. SEE FIBER STORAGE DETAIL ITD-25.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM

CHECKED BY: CHP

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..ITS-17.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179

DRAWING NO. ITS-17

SHEET NO. 01.05.017

Border Version: 10/19/07

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 093-180

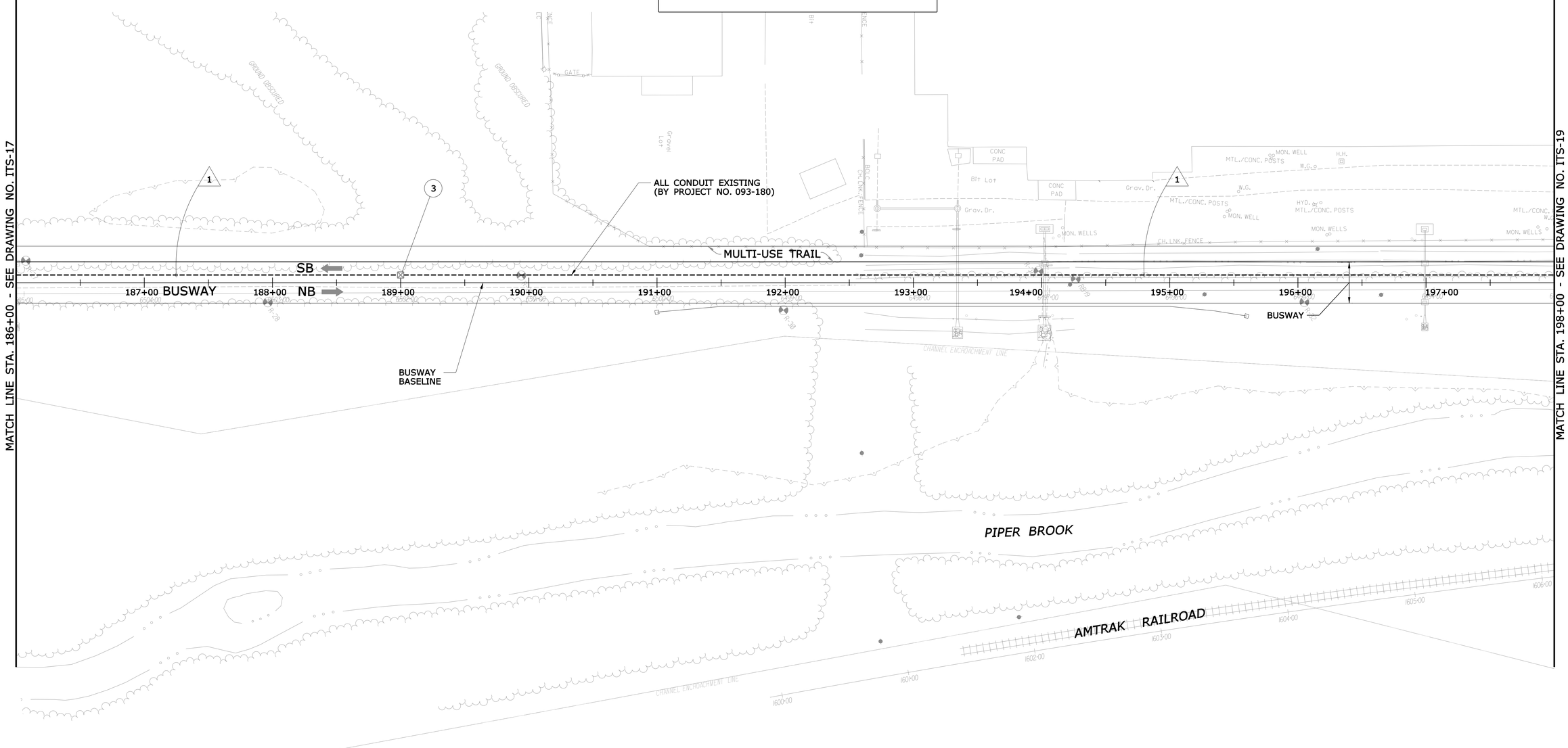
CONSTRUCTION NOTES *

3. COIL 50 FEET OF DISTRIBUTION FIBER IN COMMUNICATION PULL BOX. SEE FIBER STORAGE DETAIL ITD-25.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM

CHECKED BY: CHP

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..ITS-18.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179

DRAWING NO. ITS-18

SHEET NO. 01.05.018

Border Version: 10/19/07

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 093-180

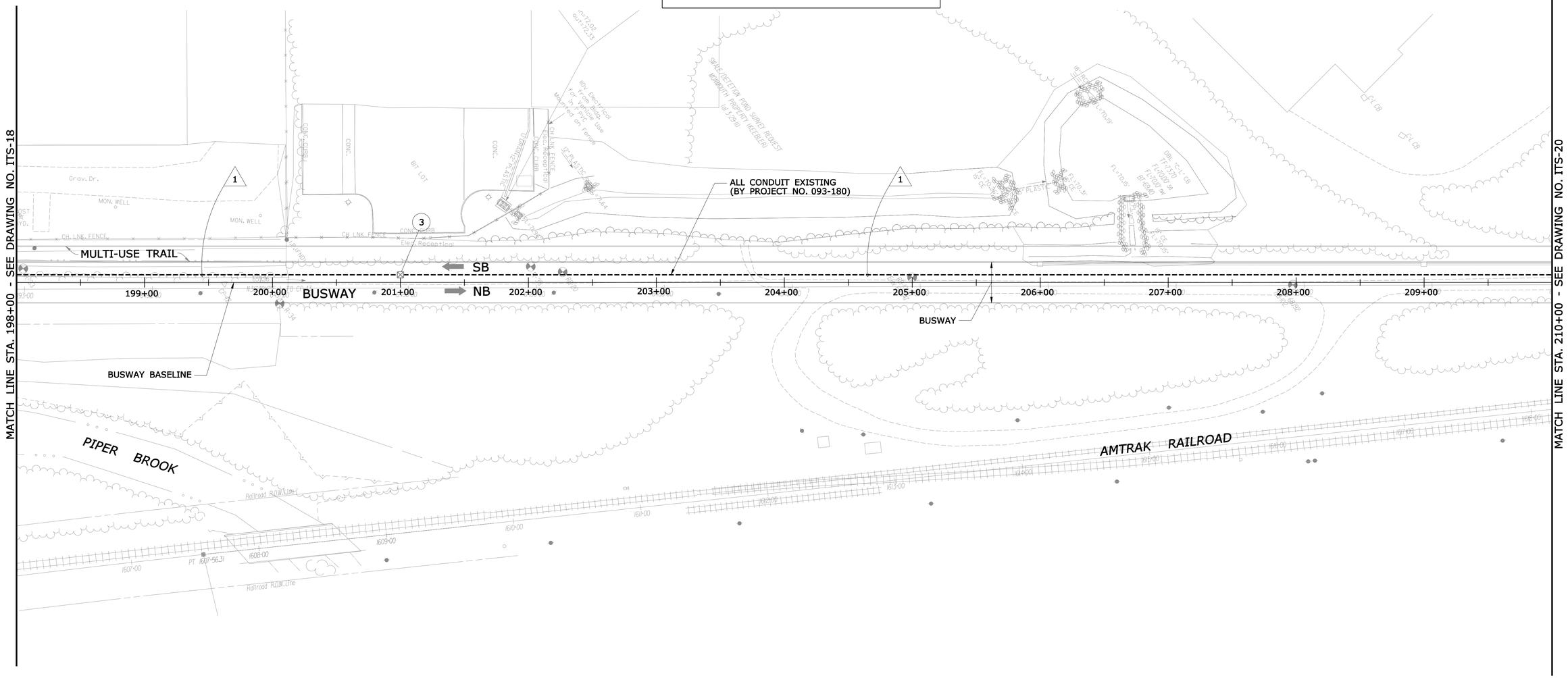
CONSTRUCTION NOTES *

3. COIL 50 FEET OF DISTRIBUTION FIBER IN COMMUNICATION PULL BOX. SEE FIBER STORAGE DETAIL ITD-25.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_PLN_088_179_ITS-19.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179
DRAWING NO. ITS-19
SHEET NO. 01.05.019

Border Version: 10/19/07

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 093-180

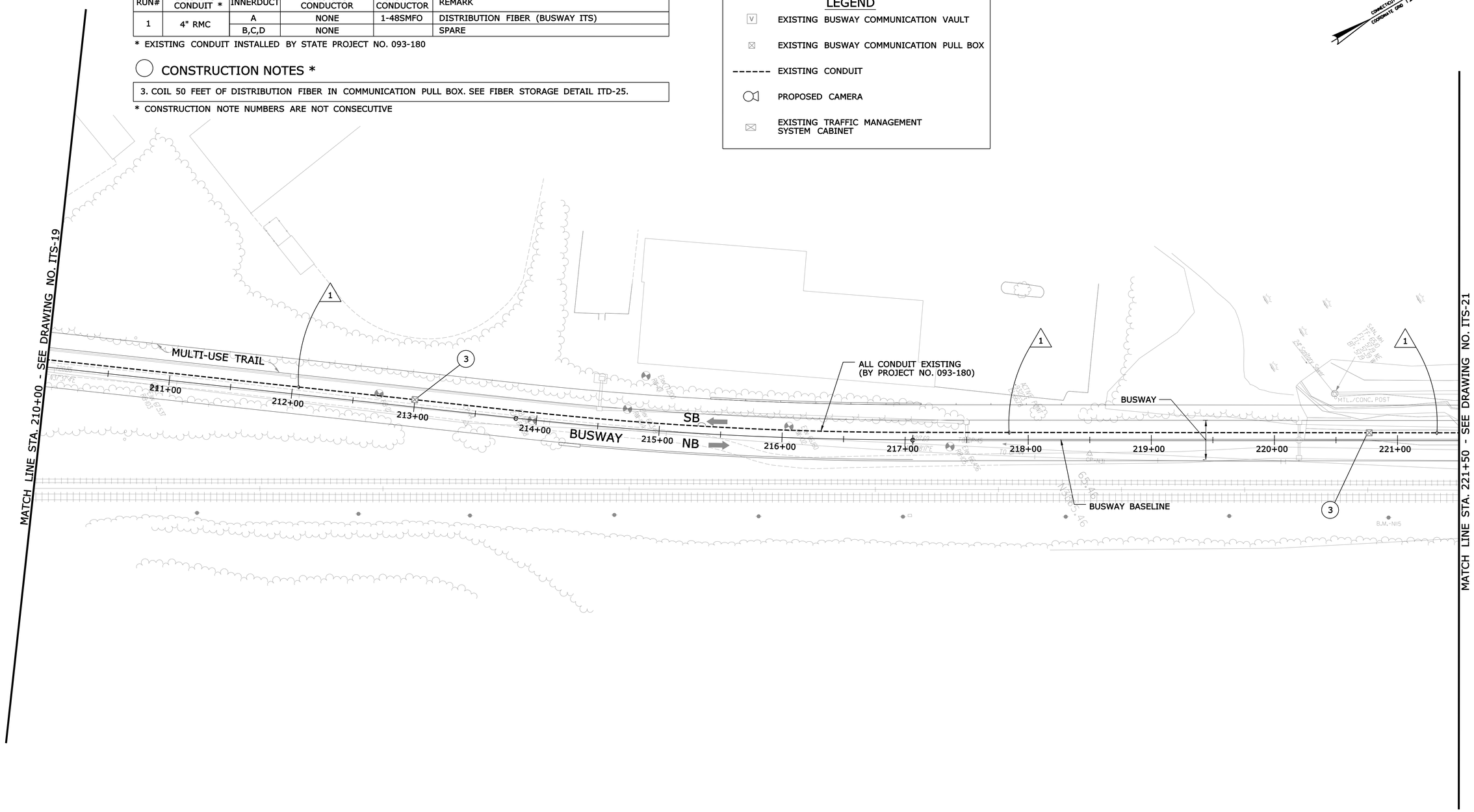
CONSTRUCTION NOTES *

3. COIL 50 FEET OF DISTRIBUTION FIBER IN COMMUNICATION PULL BOX. SEE FIBER STORAGE DETAIL ITD-25.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: **LM/SM**

CHECKED BY: **CHP**

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..ITS-20.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CT*fastrak*
ITS & COMMUNICATIONS SYSTEMS

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
COMMUNICATION CORRIDOR PLAN

PROJECT NO. **088-179**

DRAWING NO. **ITS-20**

SHEET NO. **01.05.020**

Border Version: 10/19/07

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 093-180

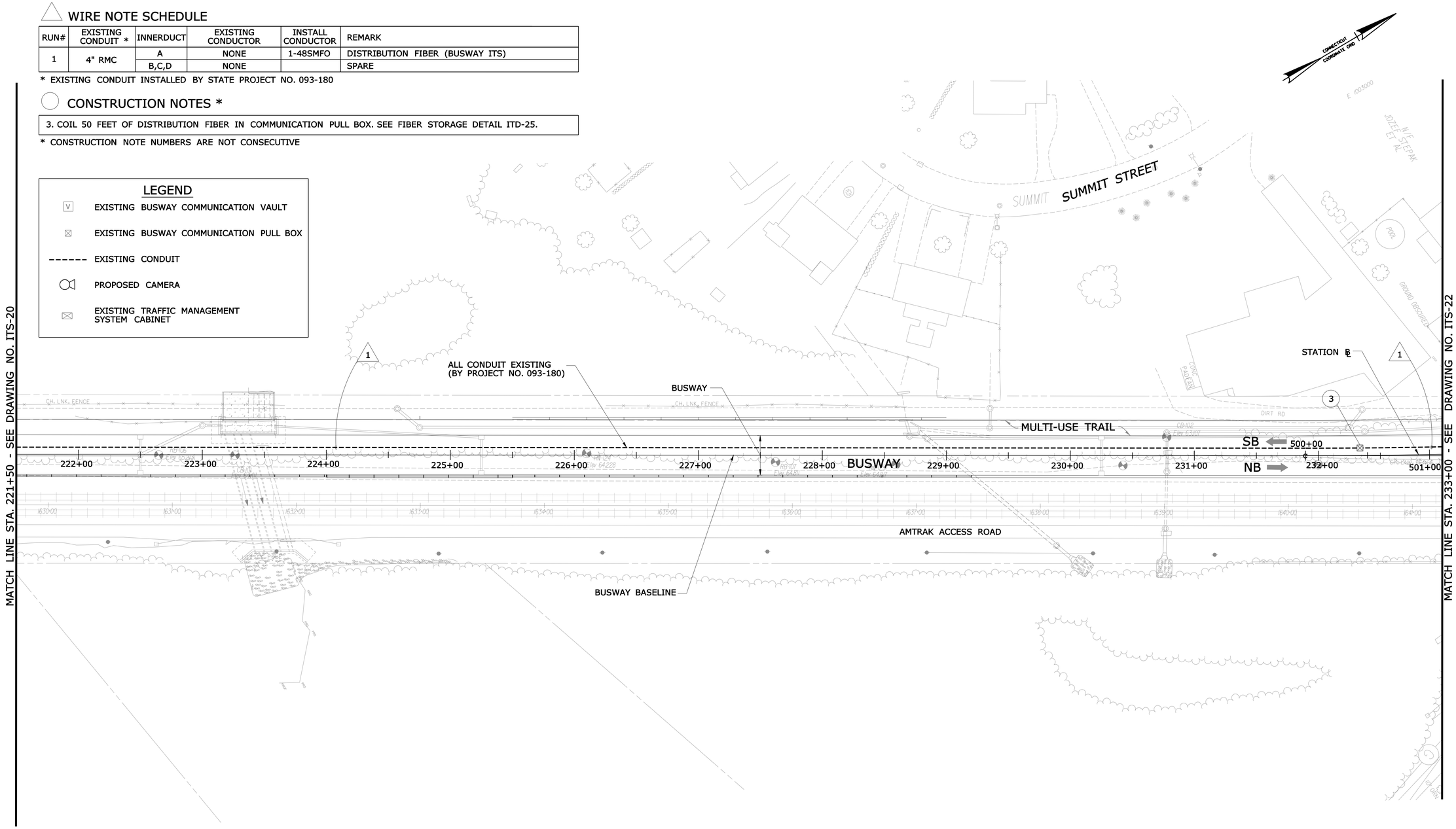
CONSTRUCTION NOTES *

3. COIL 50 FEET OF DISTRIBUTION FIBER IN COMMUNICATION PULL BOX. SEE FIBER STORAGE DETAIL ITD-25.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_PLN_088_179_ITS-21.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179
DRAWING NO. ITS-21
SHEET NO. 01.05.021

Border Version: 10/19/07

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE
3	2" RMC		NONE	1-12SMFO	FIBER DROP
6	2" RMC		NONE	1-CC, 2-#14	CAMERA CABLE, CAMERA POWER
7	2" RMC		NONE	1-12SMFO	FIBER DROP
			NONE	1-CC	CAMERA CABLE
	2" RMC		NONE	2-#14	CAMERA POWER
8	3" RMC		NONE		CABINET POWER (BY PROJECT NO. 093-180)

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 093-180

CONSTRUCTION NOTES *

1. FURNISH AND INSTALL FIBER SPLICE ENCLOSURE IN COMMUNICATION VAULT. COIL 100 FEET OF DISTRIBUTION FIBER AND 50 FEET OF EACH DROP FIBER. SPLICE DISTRIBUTION FIBER TO DROP FIBER IN SPLICE ENCLOSURE. SEE ITD-08 AND ITD-25 FOR DETAILS.

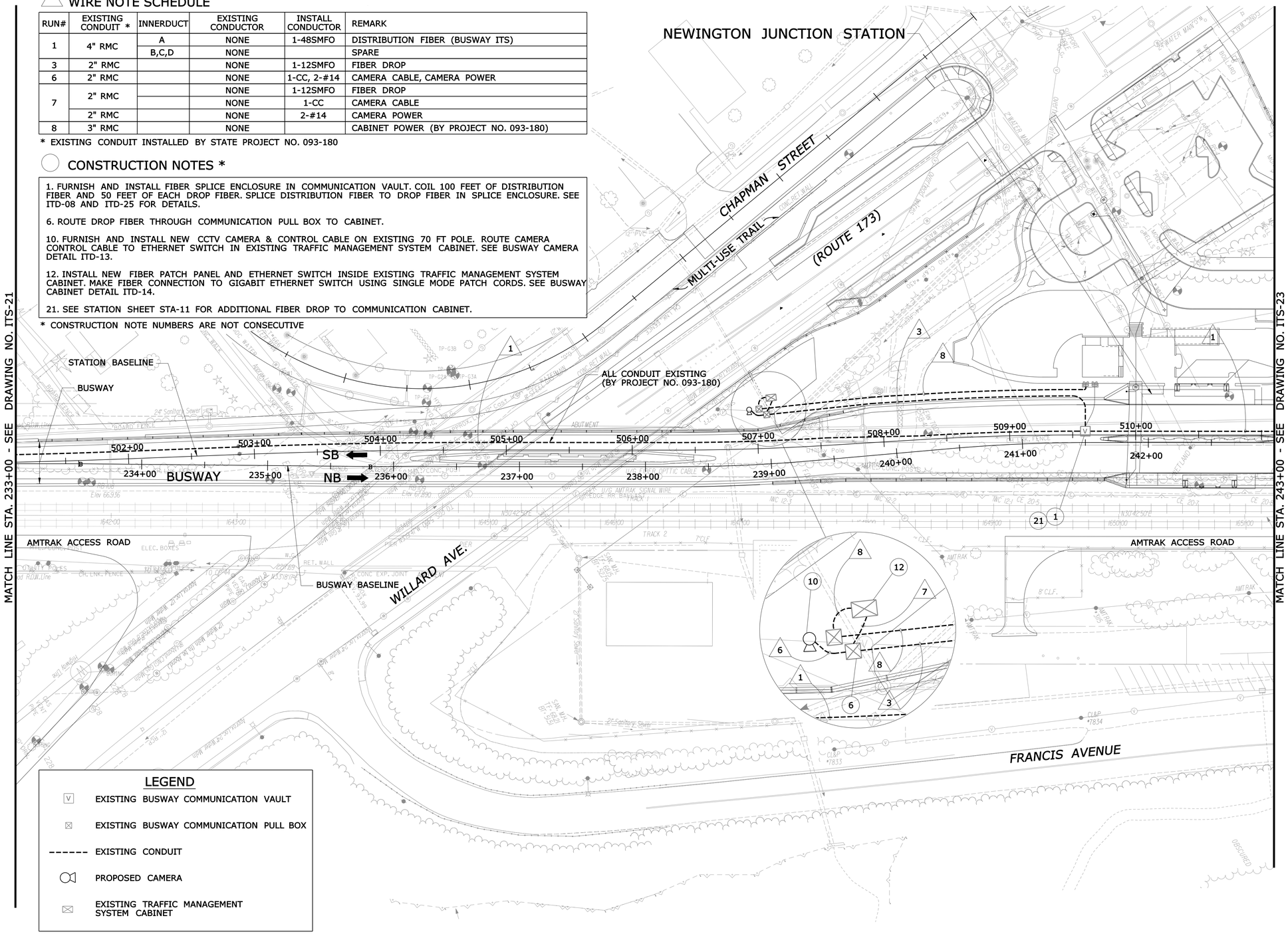
6. ROUTE DROP FIBER THROUGH COMMUNICATION PULL BOX TO CABINET.

10. FURNISH AND INSTALL NEW CCTV CAMERA & CONTROL CABLE ON EXISTING 70 FT POLE. ROUTE CAMERA CONTROL CABLE TO ETHERNET SWITCH IN EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET. SEE BUSWAY CAMERA DETAIL ITD-13.

12. INSTALL NEW FIBER PATCH PANEL AND ETHERNET SWITCH INSIDE EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET. MAKE FIBER CONNECTION TO GIGABIT ETHERNET SWITCH USING SINGLE MODE PATCH CORDS. SEE BUSWAY CABINET DETAIL ITD-14.

21. SEE STATION SHEET STA-11 FOR ADDITIONAL FIBER DROP TO COMMUNICATION CABINET.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE



LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..ITS-22.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179
DRAWING NO. ITS-22
SHEET NO. 01.05.022

Border Version: 10/19/07

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 093-180

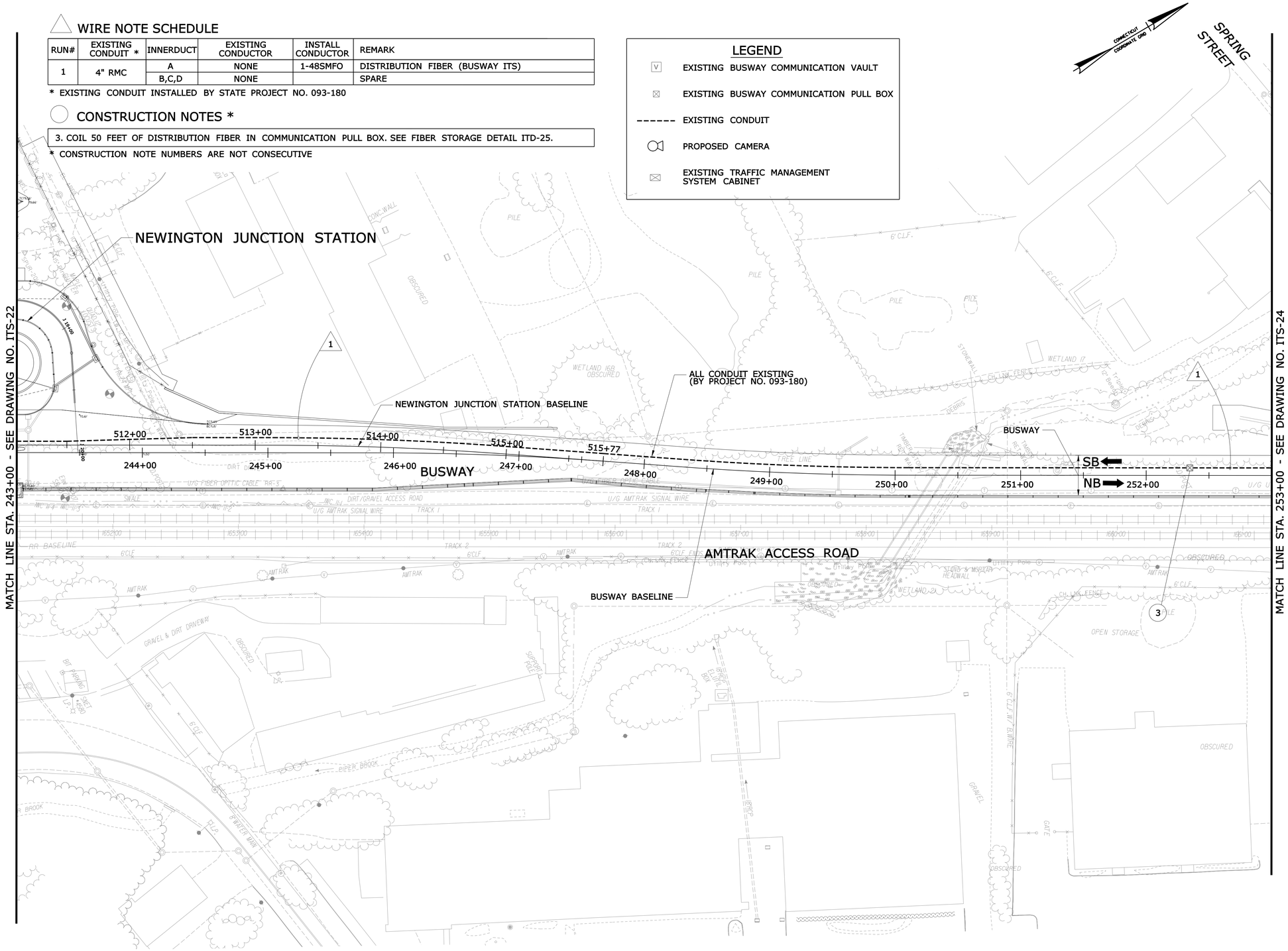
CONSTRUCTION NOTES *

3. COIL 50 FEET OF DISTRIBUTION FIBER IN COMMUNICATION PULL BOX. SEE FIBER STORAGE DETAIL ITD-25.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM

CHECKED BY: CHP

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..ITS-23.dgn

IBI GROUP

IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA

tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:

CT*fastrak*

ITS & COMMUNICATIONS SYSTEMS

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179

DRAWING NO. ITS-23

SHEET NO. 01.05.023

Border Version: 10/19/07

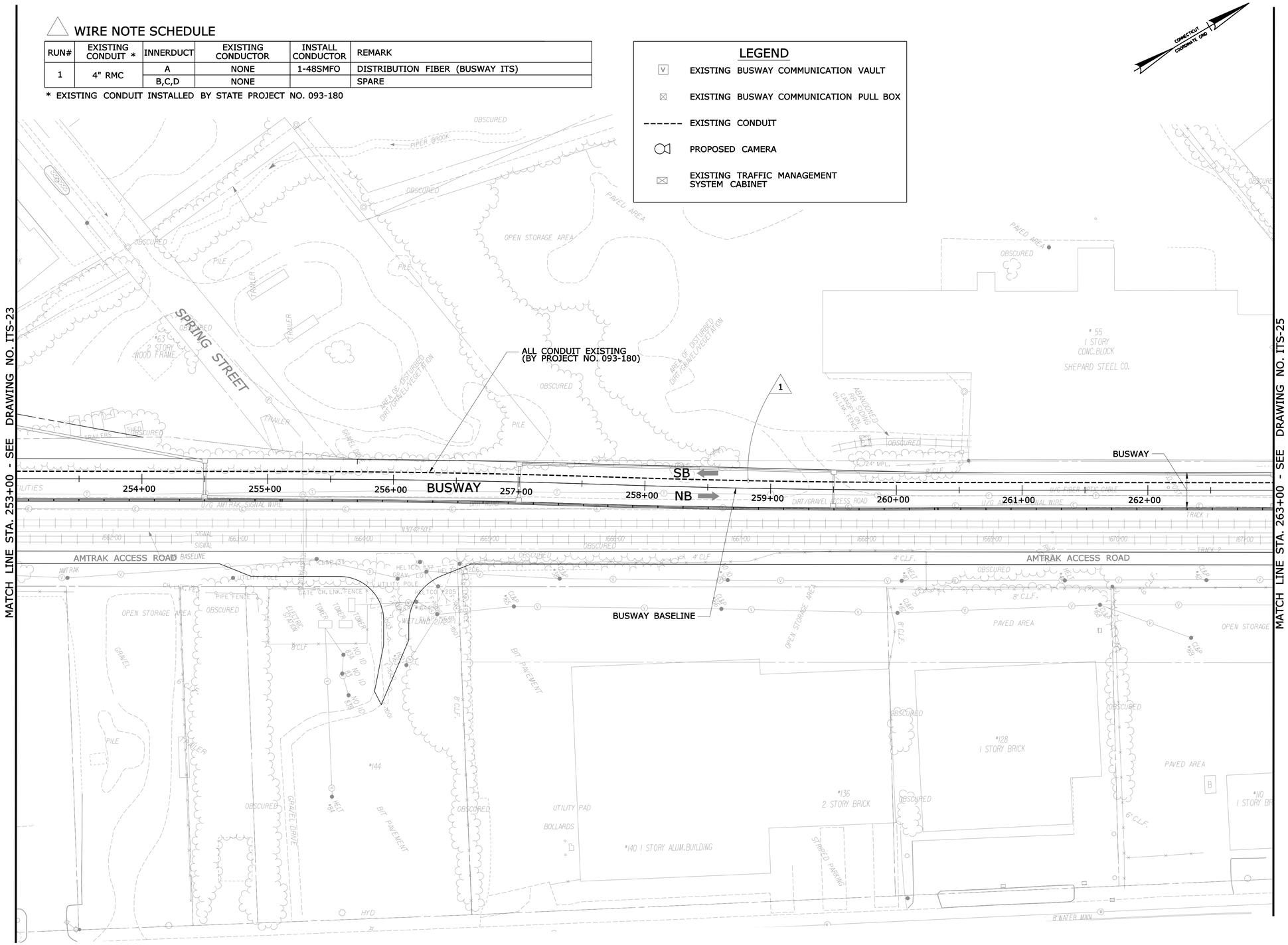
WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 093-180

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM

CHECKED BY: CHP

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..ITS-24.dgn

IBI GROUP

IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA

tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CT*fastrak*
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179

DRAWING NO. ITS-24

SHEET NO. 01.05.024

Border Version: 10/19/07

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 093-180

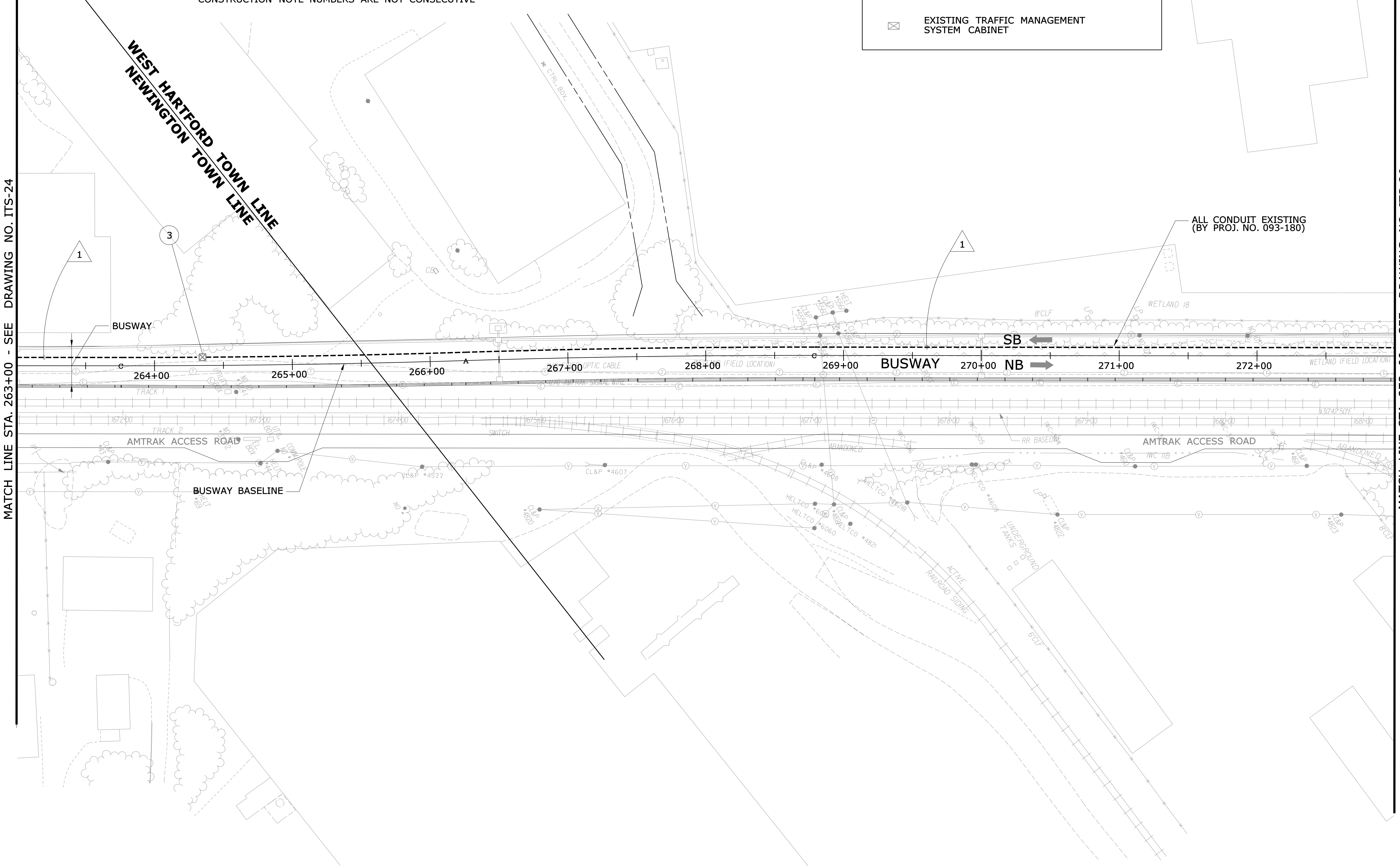
CONSTRUCTION NOTES *

3. COIL 50 FEET OF DISTRIBUTION FIBER IN COMMUNICATION PULL BOX. SEE FIBER STORAGE DETAIL ITD-25.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: **LM/SM**
CHECKED BY: **CHP**
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_PLN_088_179_ITS-25.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CT*fastrak*
ITS & COMMUNICATIONS SYSTEMS

TOWN: **NEWINGTON, WEST HARTFORD & HARTFORD**
DRAWING TITLE: **COMMUNICATION CORRIDOR PLAN**

PROJECT NO. **088-179**
DRAWING NO. **ITS-25**
SHEET NO. **01.05.025**

Border Version: 10/19/07

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 093-180

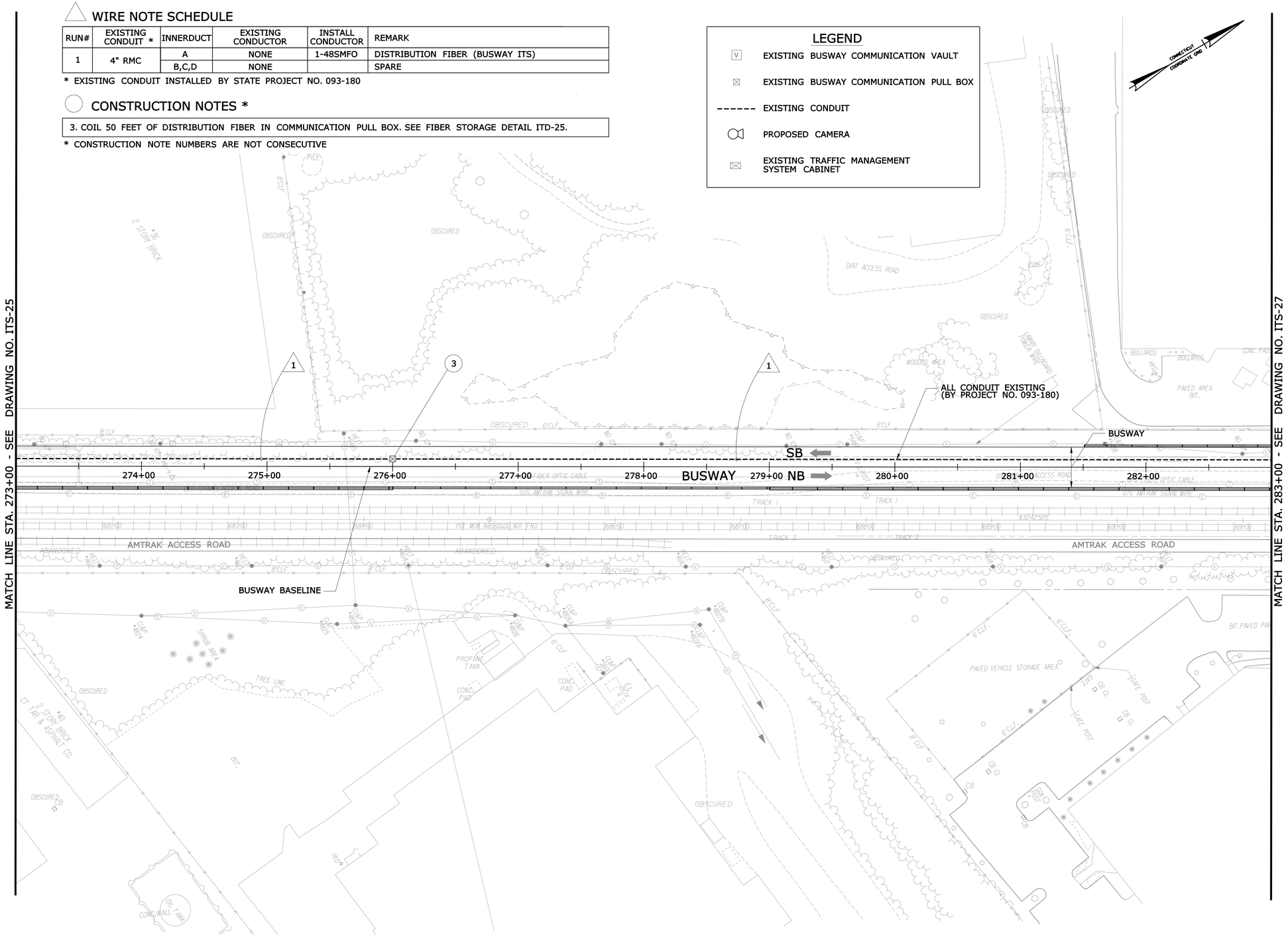
CONSTRUCTION NOTES *

3. COIL 50 FEET OF DISTRIBUTION FIBER IN COMMUNICATION PULL BOX. SEE FIBER STORAGE DETAIL ITD-25.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..ITS-26.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179
DRAWING NO. ITS-26
SHEET NO. 01.05.026

Border Version: 10/19/07

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 093-180

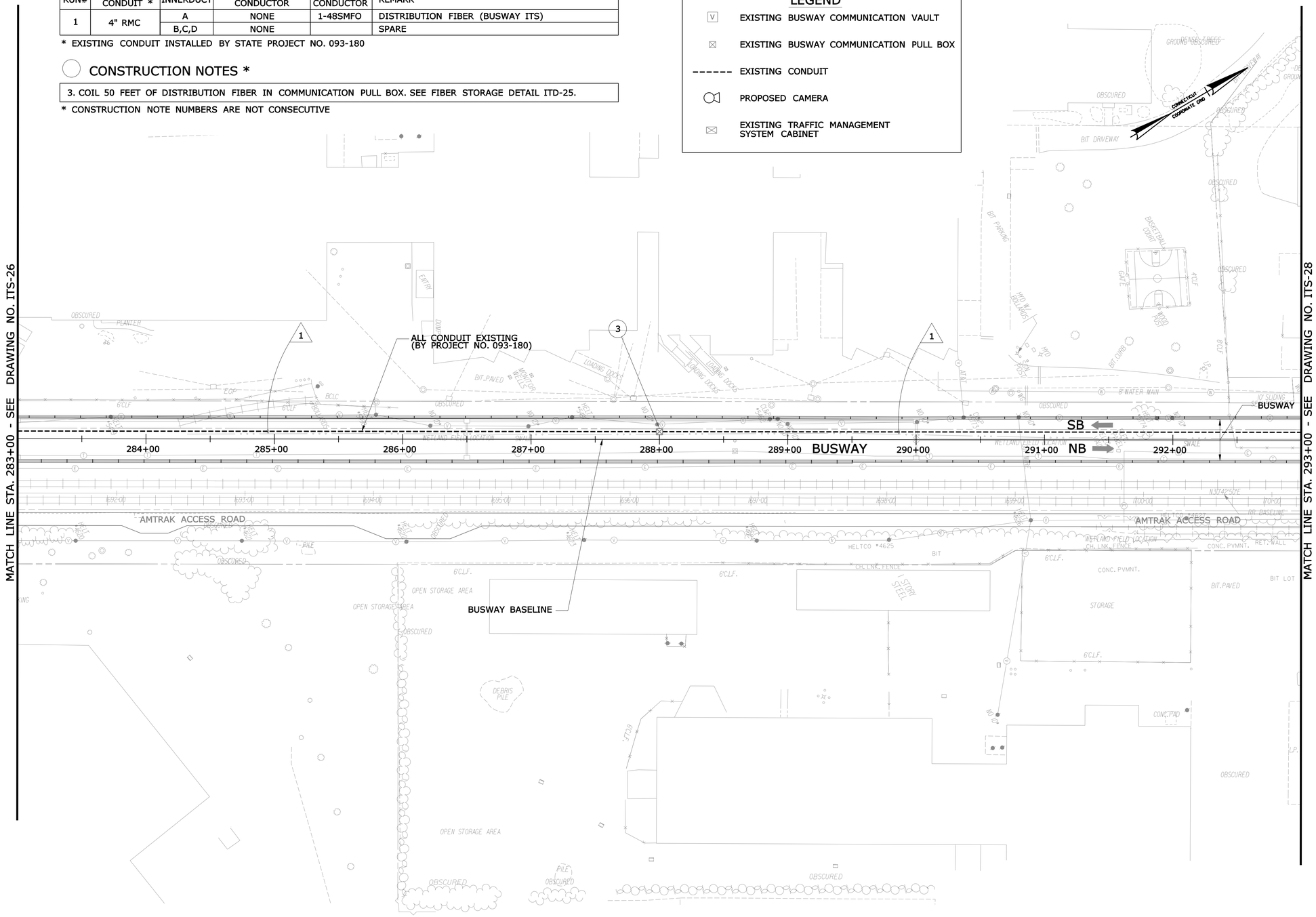
CONSTRUCTION NOTES *

3. COIL 50 FEET OF DISTRIBUTION FIBER IN COMMUNICATION PULL BOX. SEE FIBER STORAGE DETAIL ITD-25.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..ITS-27.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179
DRAWING NO. ITS-27
SHEET NO. 01.05.027

Border Version: 10/19/07

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 093-180

CONSTRUCTION NOTES *

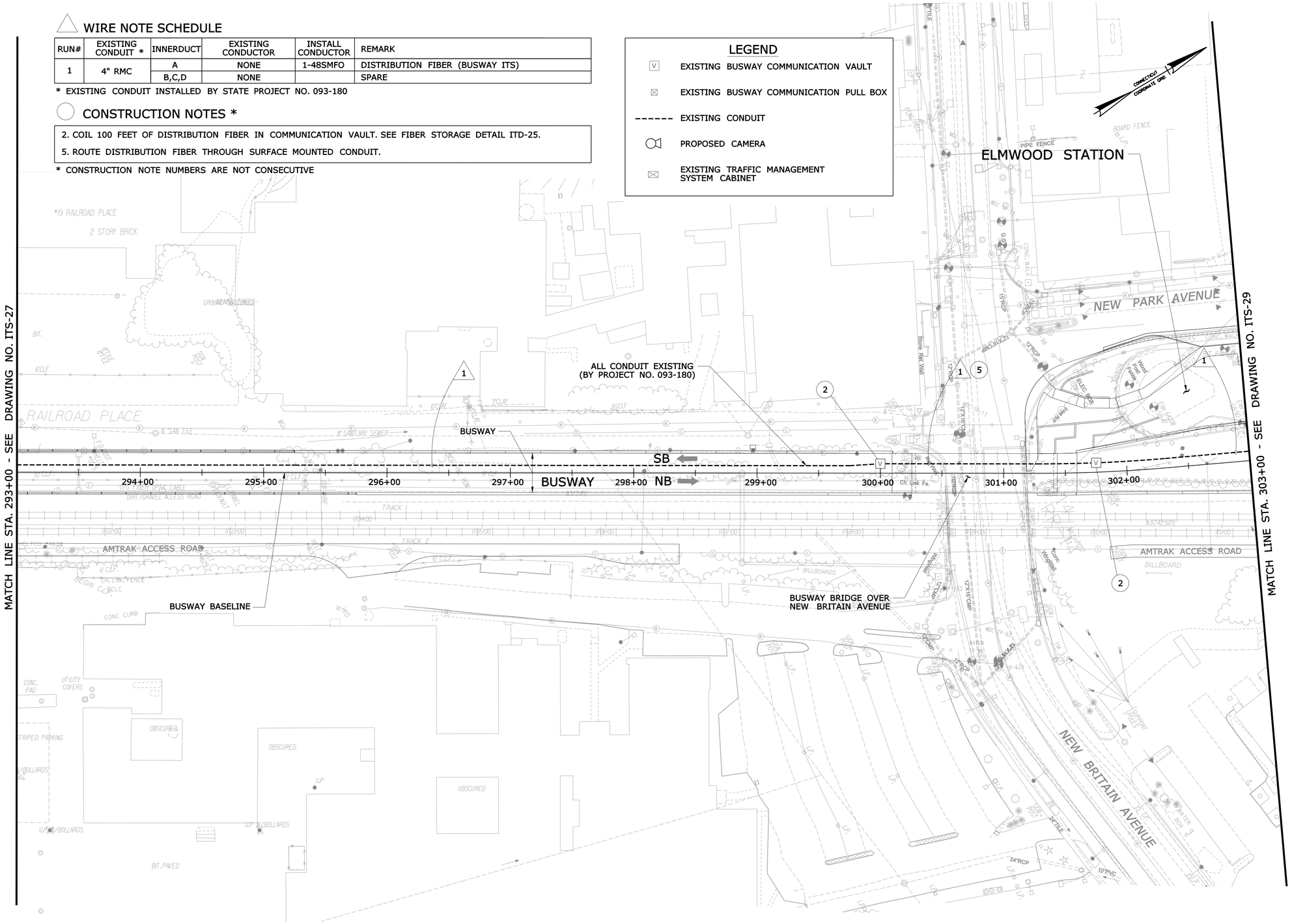
2. COIL 100 FEET OF DISTRIBUTION FIBER IN COMMUNICATION VAULT. SEE FIBER STORAGE DETAIL ITD-25.

5. ROUTE DISTRIBUTION FIBER THROUGH SURFACE MOUNTED CONDUIT.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM

CHECKED BY: CHP

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..ITS-28.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:

CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEWINGTON, WEST HARTFORD & HARDTFORD

DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179

DRAWING NO. ITS-28

SHEET NO. 01.05.028

Border Version: 10/19/07

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 093-180

CONSTRUCTION NOTES *

1. FURNISH AND INSTALL FIBER SPLICE ENCLOSURE IN COMMUNICATION VAULT. COIL 100 FEET OF DISTRIBUTION FIBER AND 50 FEET OF EACH DROP FIBER. SPLICE DISTRIBUTION FIBER TO DROP FIBER IN SPLICE ENCLOSURE. SEE ITD-08 AND ITD-25 FOR DETAILS.

2. COIL 100 FEET OF DISTRIBUTION FIBER IN COMMUNICATION VAULT. SEE FIBER STORAGE DETAIL ITD-25.

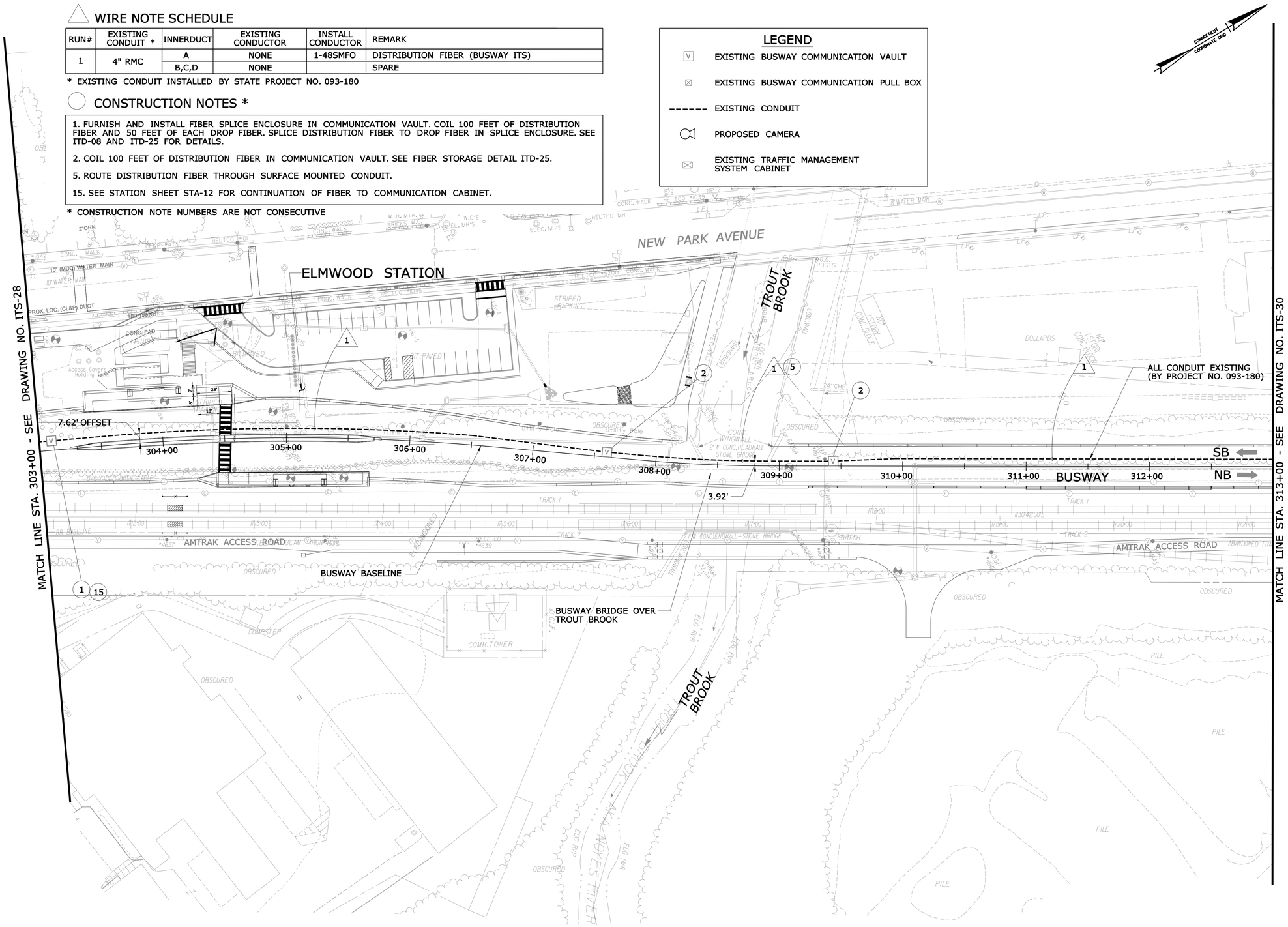
5. ROUTE DISTRIBUTION FIBER THROUGH SURFACE MOUNTED CONDUIT.

15. SEE STATION SHEET STA-12 FOR CONTINUATION OF FIBER TO COMMUNICATION CABINET.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..ITS-29.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE: CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179
DRAWING NO. ITS-29
SHEET NO. 01.05.029

Border Version: 10/19/07

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 093-180

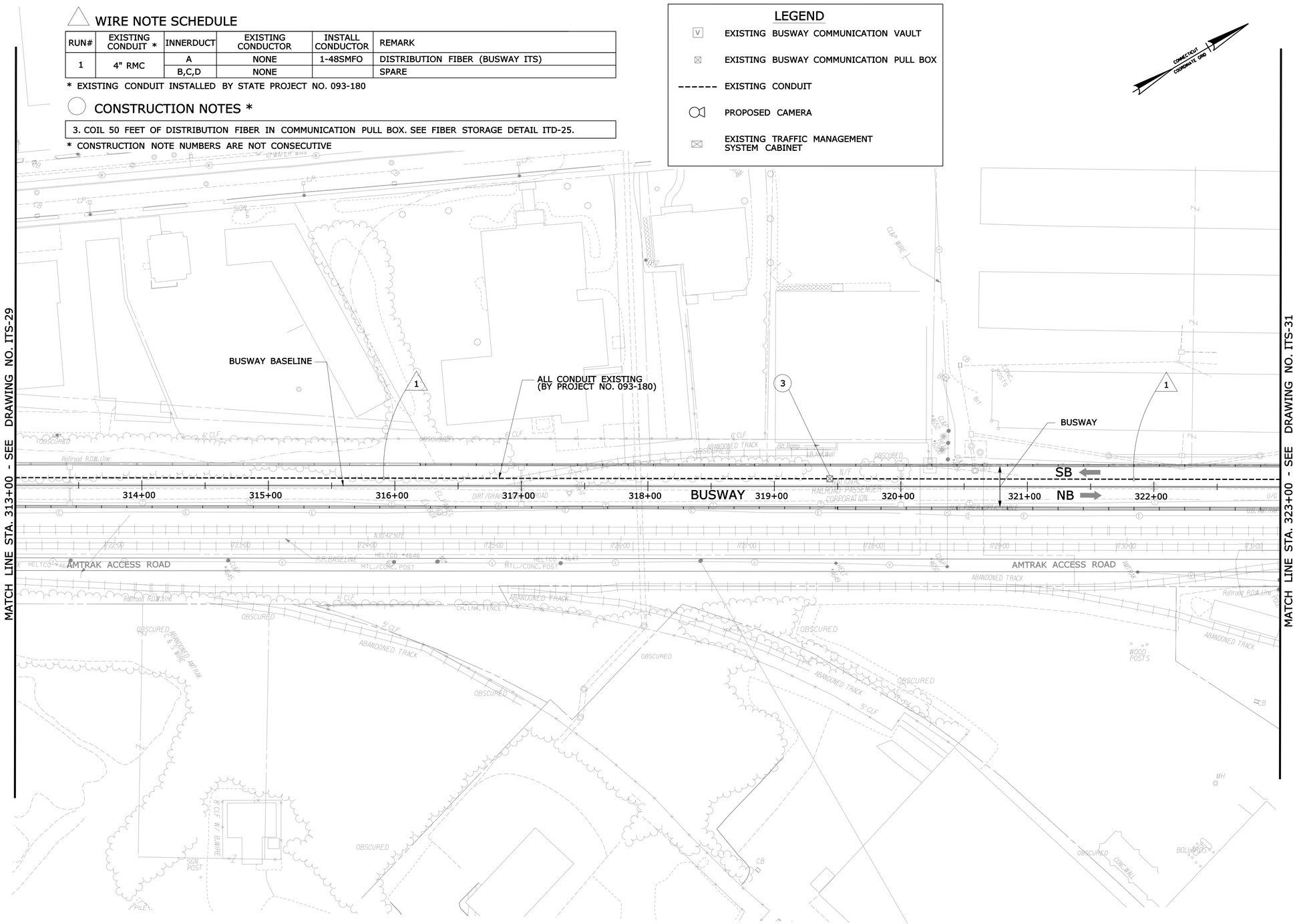
CONSTRUCTION NOTES *

3. COIL 50 FEET OF DISTRIBUTION FIBER IN COMMUNICATION PULL BOX. SEE FIBER STORAGE DETAIL ITD-25.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM

CHECKED BY: CHP

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_PLN_088_179_ITS-30.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179

DRAWING NO. ITS-30

SHEET NO. 01.05.030

Border Version: 10/19/07

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE
3	2" RMC		NONE	1-12SMFO	FIBER DROP
6	2" RMC		NONE	1-CC, 2-#14	CAMERA CABLE, CAMERA POWER
7	2" RMC		NONE	1-12SMFO	FIBER DROP
			NONE	1-CC	CAMERA CABLE
	2" RMC		NONE	2-#14	CAMERA POWER
8	3" RMC		NONE		CABINET POWER (BY PROJECT NO. 093-180)

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 093-180

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET

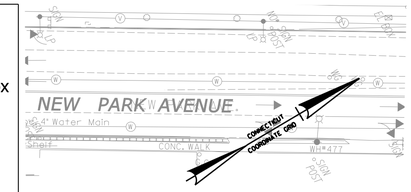
CONSTRUCTION NOTES *

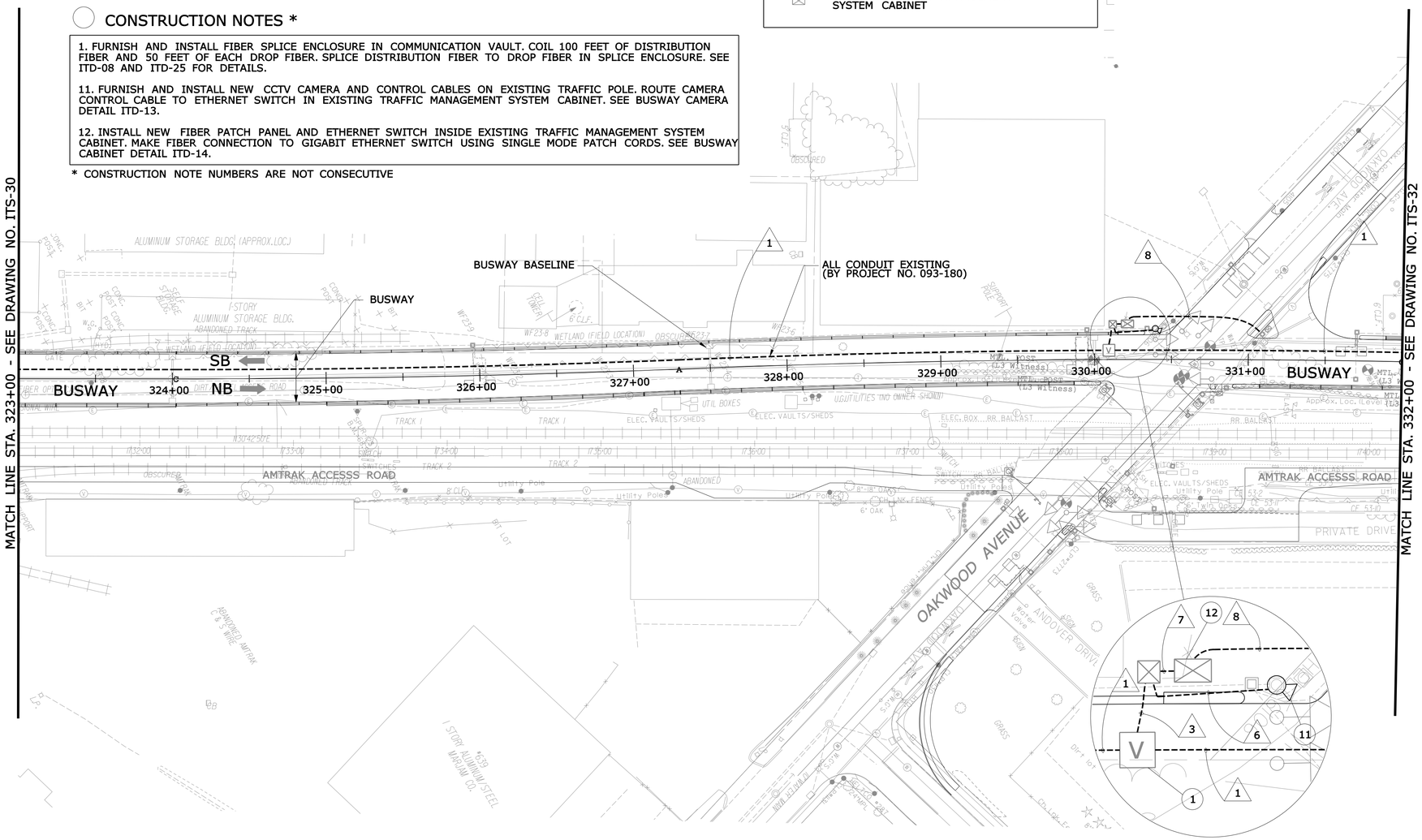
1. FURNISH AND INSTALL FIBER SPLICE ENCLOSURE IN COMMUNICATION VAULT. COIL 100 FEET OF DISTRIBUTION FIBER AND 50 FEET OF EACH DROP FIBER. SPLICE DISTRIBUTION FIBER TO DROP FIBER IN SPLICE ENCLOSURE. SEE ITD-08 AND ITD-25 FOR DETAILS.

11. FURNISH AND INSTALL NEW CCTV CAMERA AND CONTROL CABLES ON EXISTING TRAFFIC POLE. ROUTE CAMERA CONTROL CABLE TO ETHERNET SWITCH IN EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET. SEE BUSWAY CAMERA DETAIL ITD-13.

12. INSTALL NEW FIBER PATCH PANEL AND ETHERNET SWITCH INSIDE EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET. MAKE FIBER CONNECTION TO GIGABIT ETHERNET SWITCH USING SINGLE MODE PATCH CORDS. SEE BUSWAY CABINET DETAIL ITD-14.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE





REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..ITS-31.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

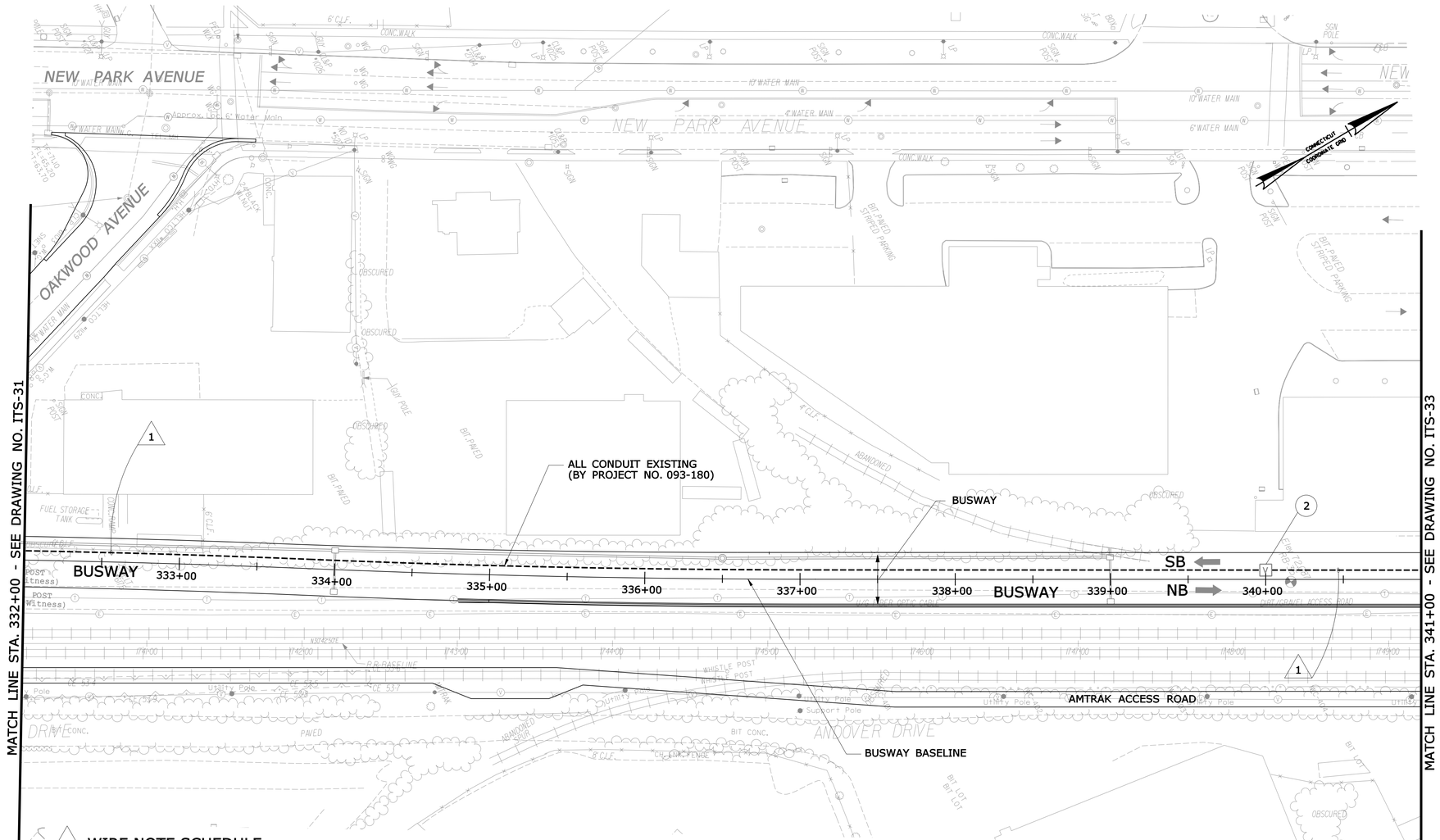
PROJECT TITLE:
CT*fastrak*
ITS & COMMUNICATIONS SYSTEMS

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179
DRAWING NO. ITS-31
SHEET NO. 01.05.031

Border Version: 10/19/07



WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 093-180

CONSTRUCTION NOTES *

2. COIL 100 FEET OF DISTRIBUTION FIBER IN COMMUNICATION VAULT. SEE FIBER STORAGE DETAIL ITD-25.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM

CHECKED BY: CHP

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..ITS-32.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

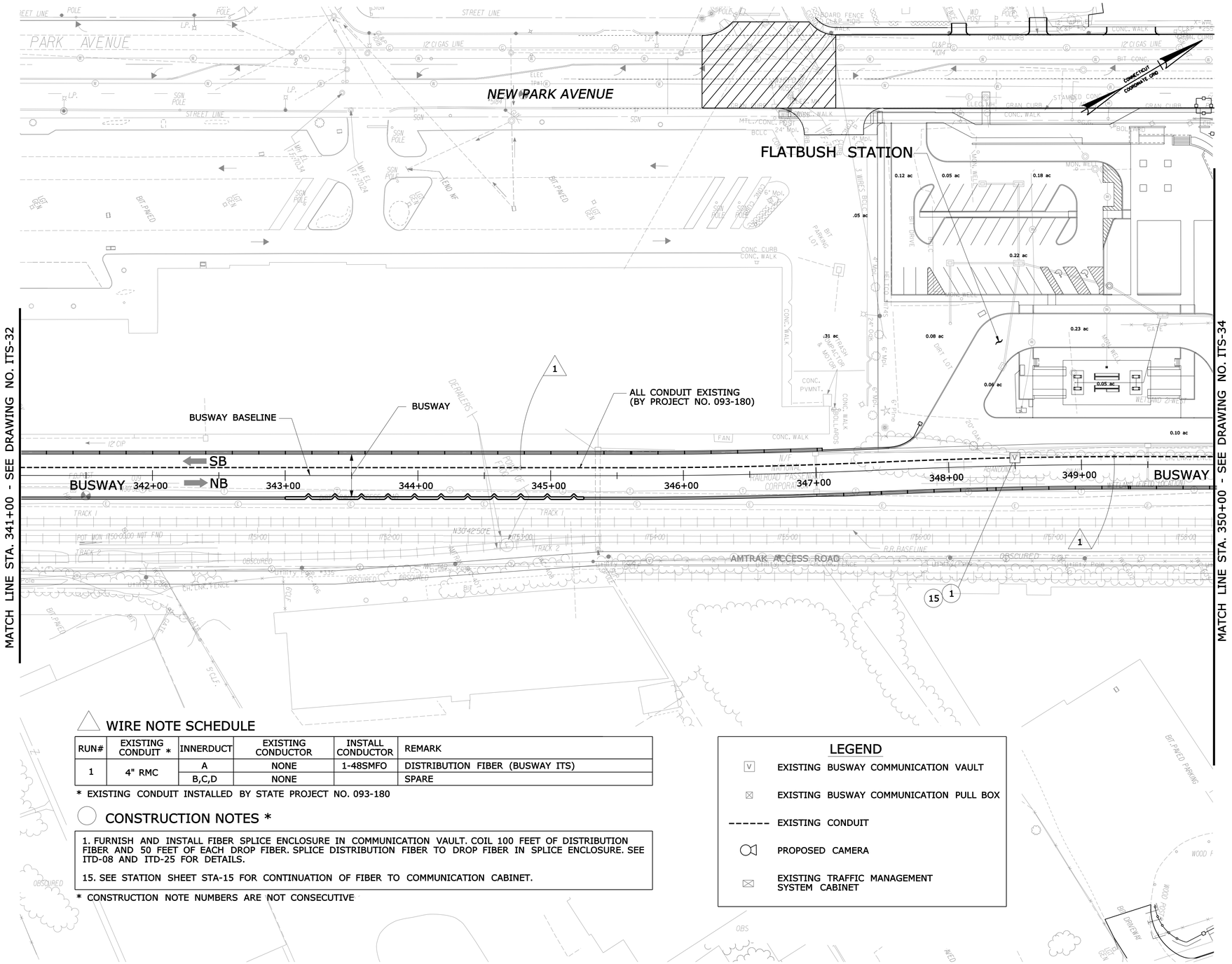
DRAWING TITLE:
COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179

DRAWING NO. ITS-32

SHEET NO. 01.05.032

Border Version: 10/19/07



WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 093-180

CONSTRUCTION NOTES *

1. FURNISH AND INSTALL FIBER SPLICE ENCLOSURE IN COMMUNICATION VAULT. COIL 100 FEET OF DISTRIBUTION FIBER AND 50 FEET OF EACH DROP FIBER. SPLICE DISTRIBUTION FIBER TO DROP FIBER IN SPLICE ENCLOSURE. SEE ITD-08 AND ITD-25 FOR DETAILS.

15. SEE STATION SHEET STA-15 FOR CONTINUATION OF FIBER TO COMMUNICATION CABINET.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..ITS-33.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

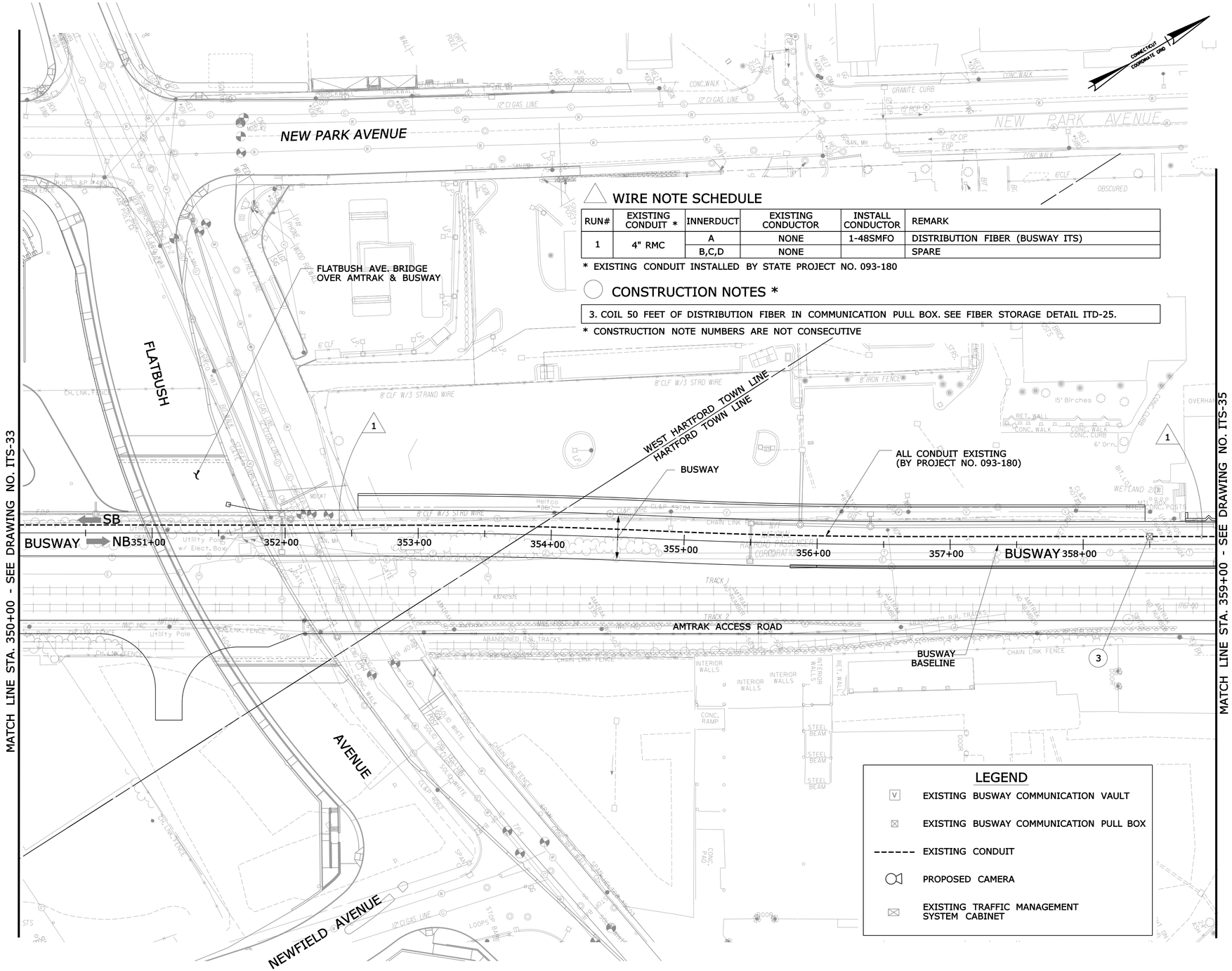
PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179
DRAWING NO. ITS-33
SHEET NO. 01.05.033

Border Version: 10/19/07



WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 093-180

CONSTRUCTION NOTES *

3. COIL 50 FEET OF DISTRIBUTION FIBER IN COMMUNICATION PULL BOX. SEE FIBER STORAGE DETAIL ITD-25.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_PLN_088_179_ITS-34.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

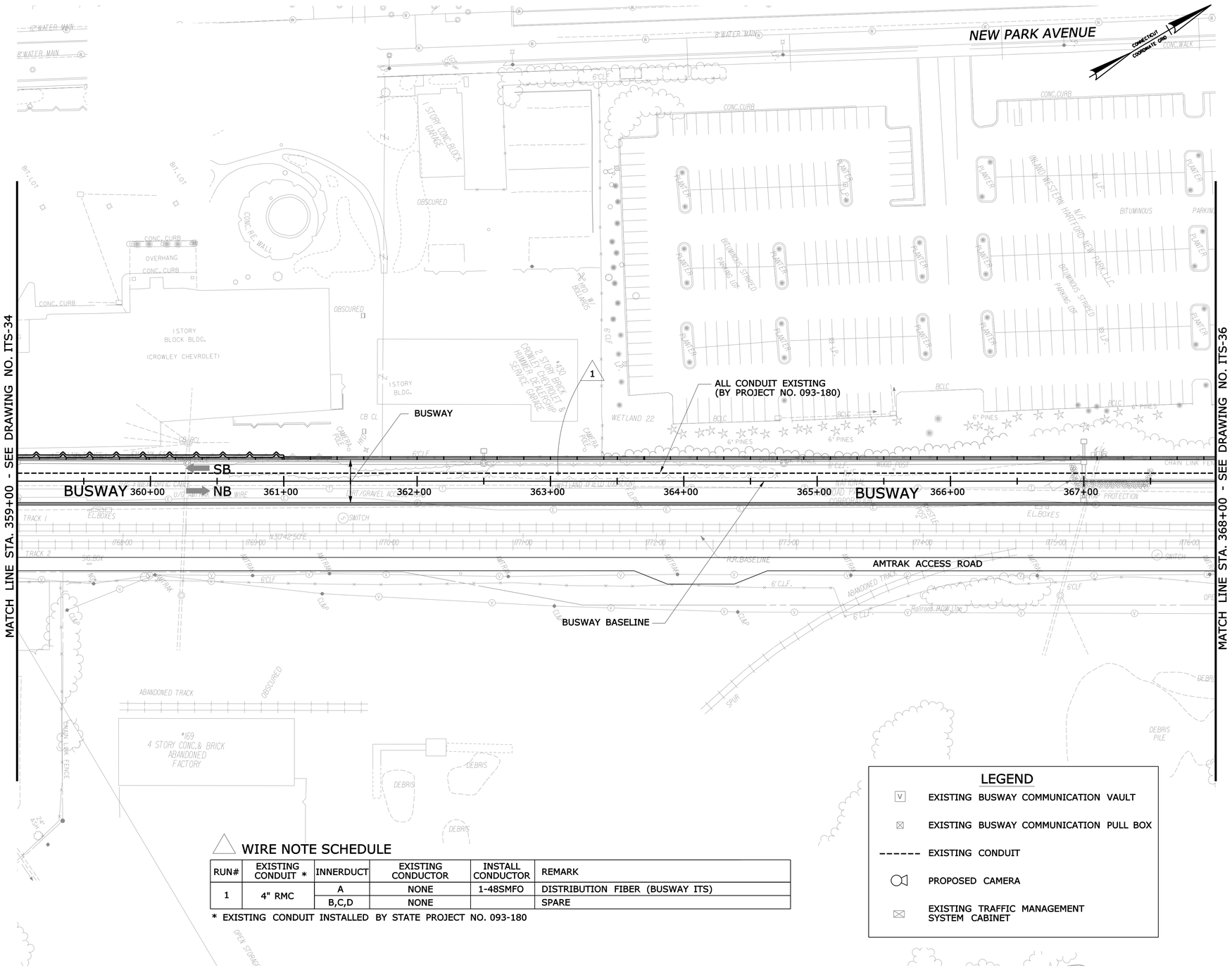
PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179
DRAWING NO. ITS-34
SHEET NO. 01.05.034

Border Version: 10/19/07



WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 093-180

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..ITS-35.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

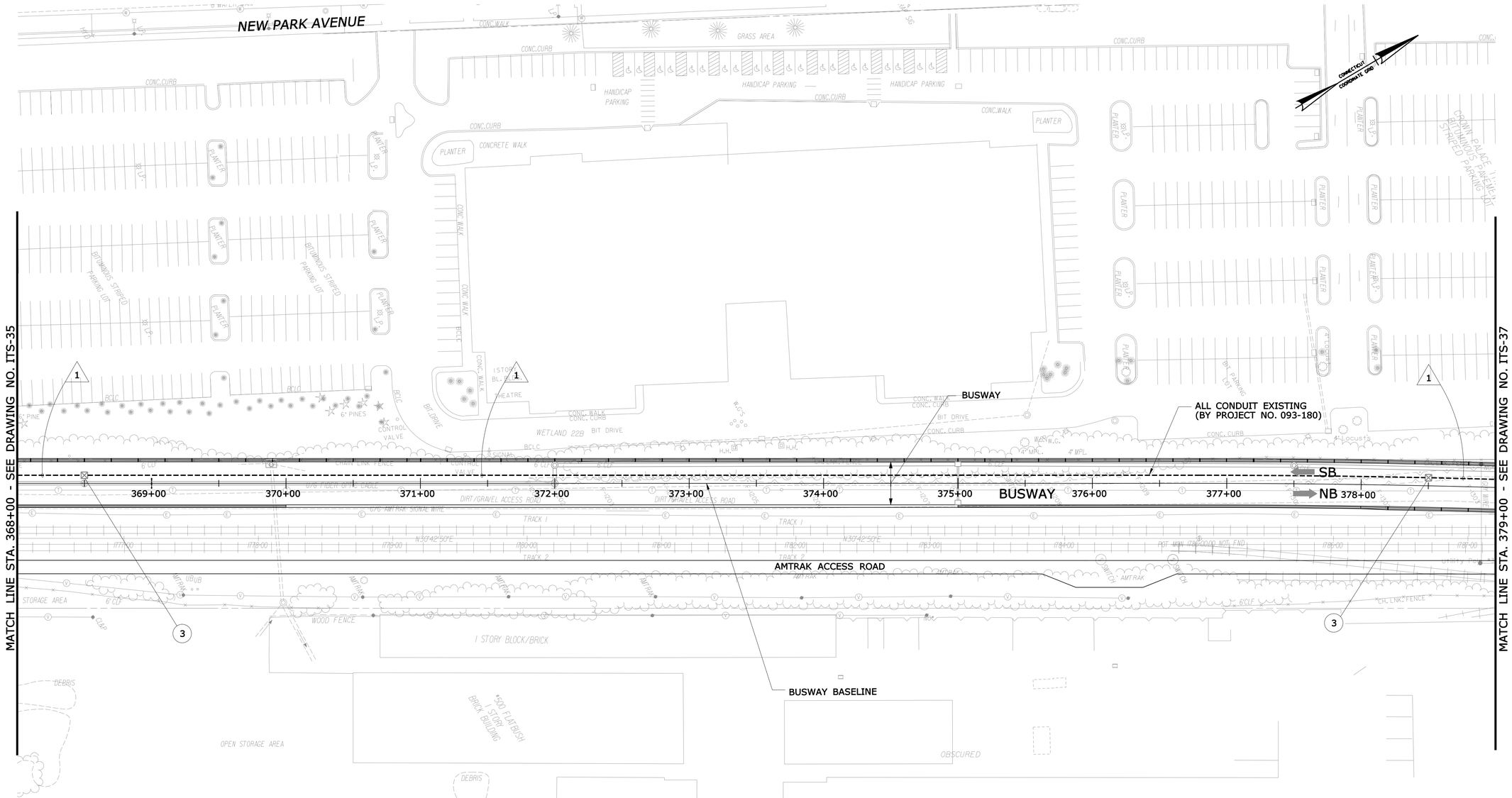
PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179
DRAWING NO. ITS-35
SHEET NO. 01.05.035

Border Version: 10/19/07



WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 093-180

CONSTRUCTION NOTES *

3. COIL 50 FEET OF DISTRIBUTION FIBER IN COMMUNICATION PULL BOX. SEE FIBER STORAGE DETAIL ITD-25.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..ITS-36.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

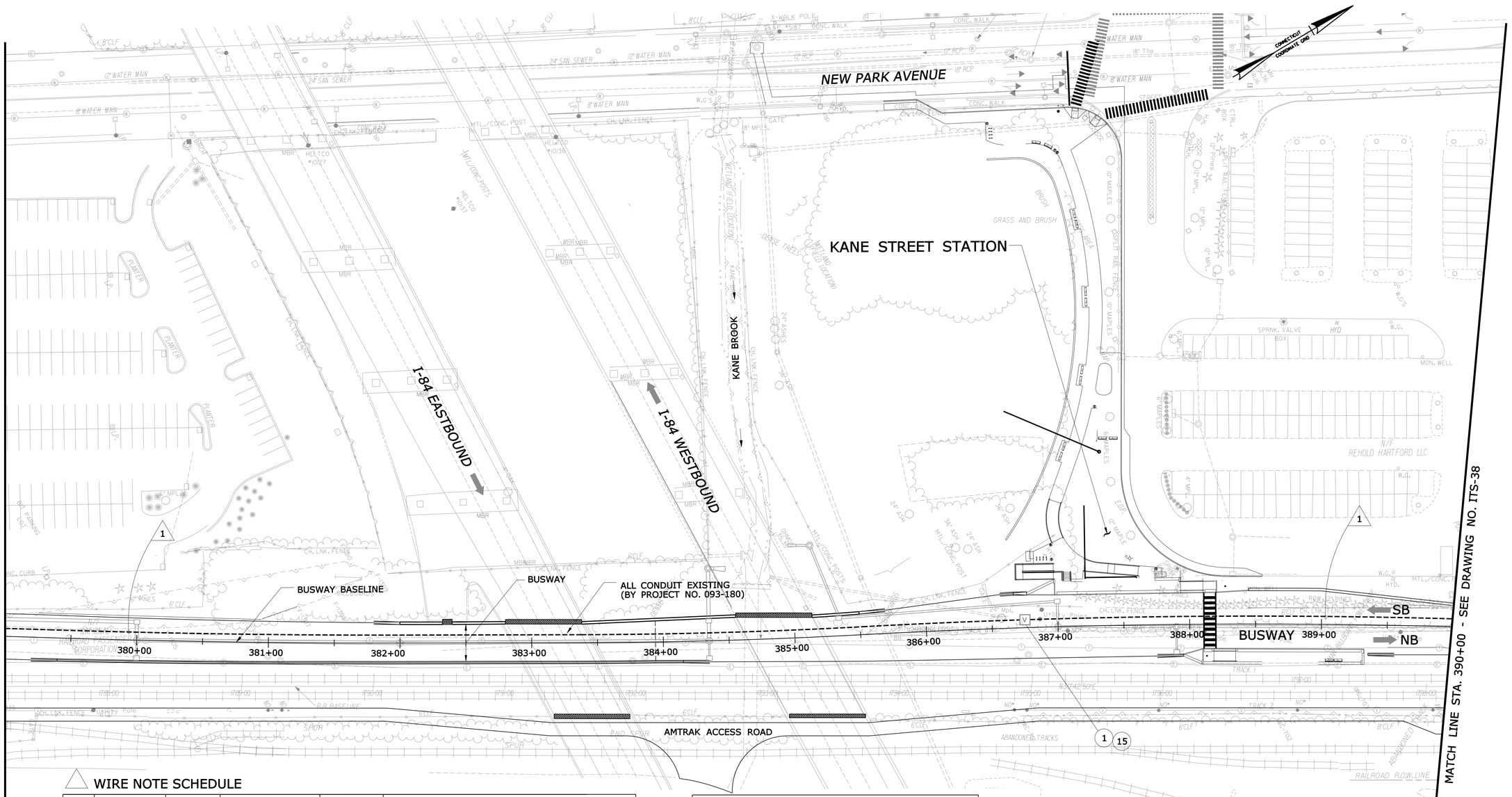
PROJECT TITLE: CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179
DRAWING NO. ITS-36
SHEET NO. 01.05.036

Border Version: 10/19/07



WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 093-180

CONSTRUCTION NOTES *

1. FURNISH AND INSTALL FIBER SPLICE ENCLOSURE IN COMMUNICATION VAULT. COIL 100 FEET OF DISTRIBUTION FIBER AND 50 FEET OF EACH DROP FIBER. SPLICE DISTRIBUTION FIBER TO DROP FIBER IN SPLICE ENCLOSURE. SEE ITD-08 AND ITD-25 FOR DETAILS.

15. SEE STATION SHEET STA-17 FOR CONTINUATION OF FIBER TO COMMUNICATION CABINET.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_PLN_088_179_ITS-37.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179
DRAWING NO. ITS-37
SHEET NO. 01.05.037

Border Version: 10/19/07

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 093-180

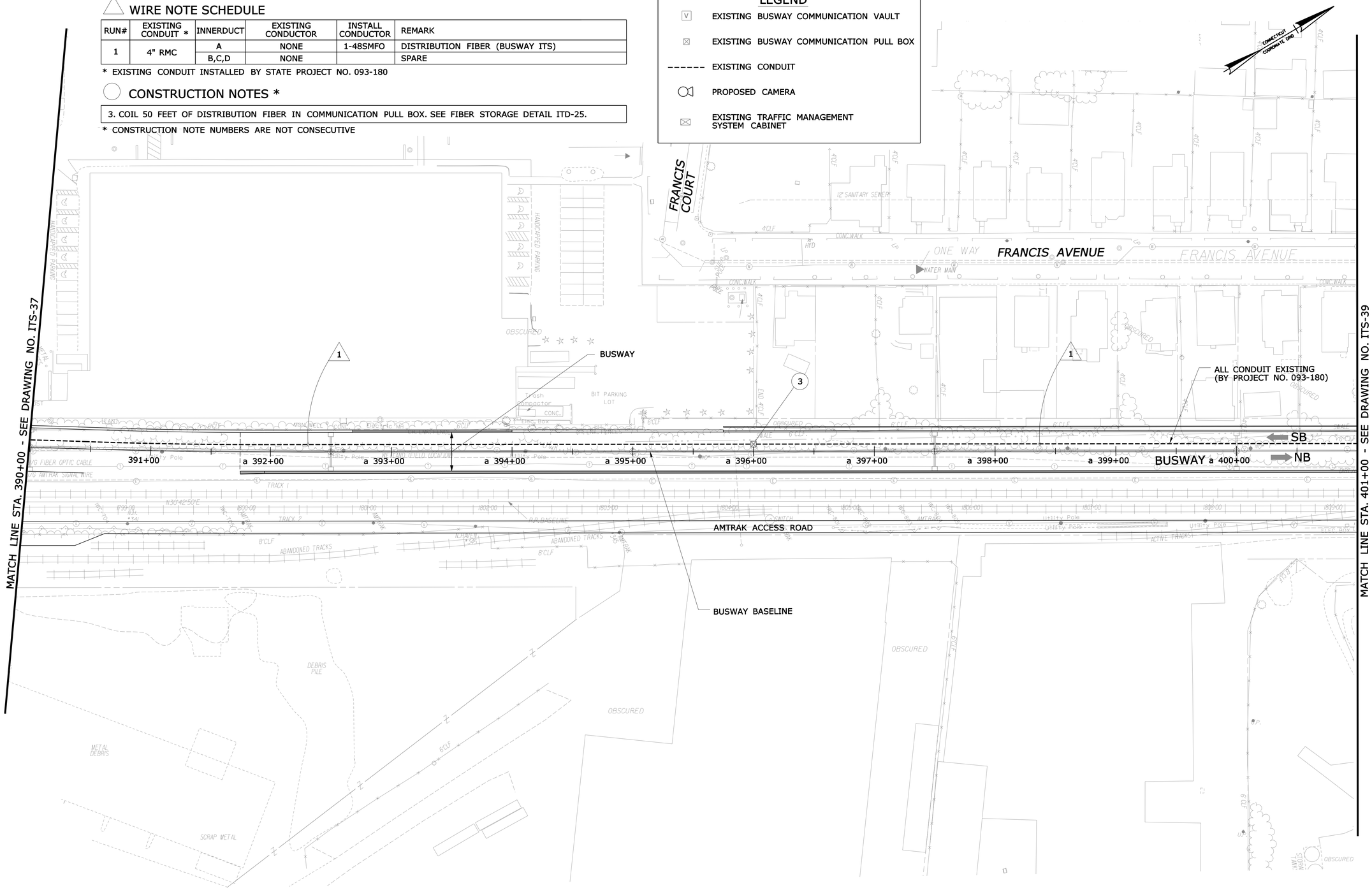
CONSTRUCTION NOTES *

3. COIL 50 FEET OF DISTRIBUTION FIBER IN COMMUNICATION PULL BOX. SEE FIBER STORAGE DETAIL ITD-25.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: **LM/SM**

CHECKED BY: **CHP**

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..ITS-38.dgn

IBI GROUP

IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA

tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:

CT*fastrak*

ITS & COMMUNICATIONS SYSTEMS

TOWN: **NEWINGTON, WEST HARTFORD & HARTFORD**

DRAWING TITLE: **COMMUNICATION CORRIDOR PLAN**

PROJECT NO. **088-179**

DRAWING NO. **ITS-38**

SHEET NO. **01.05.038**

Border Version: 10/19/07

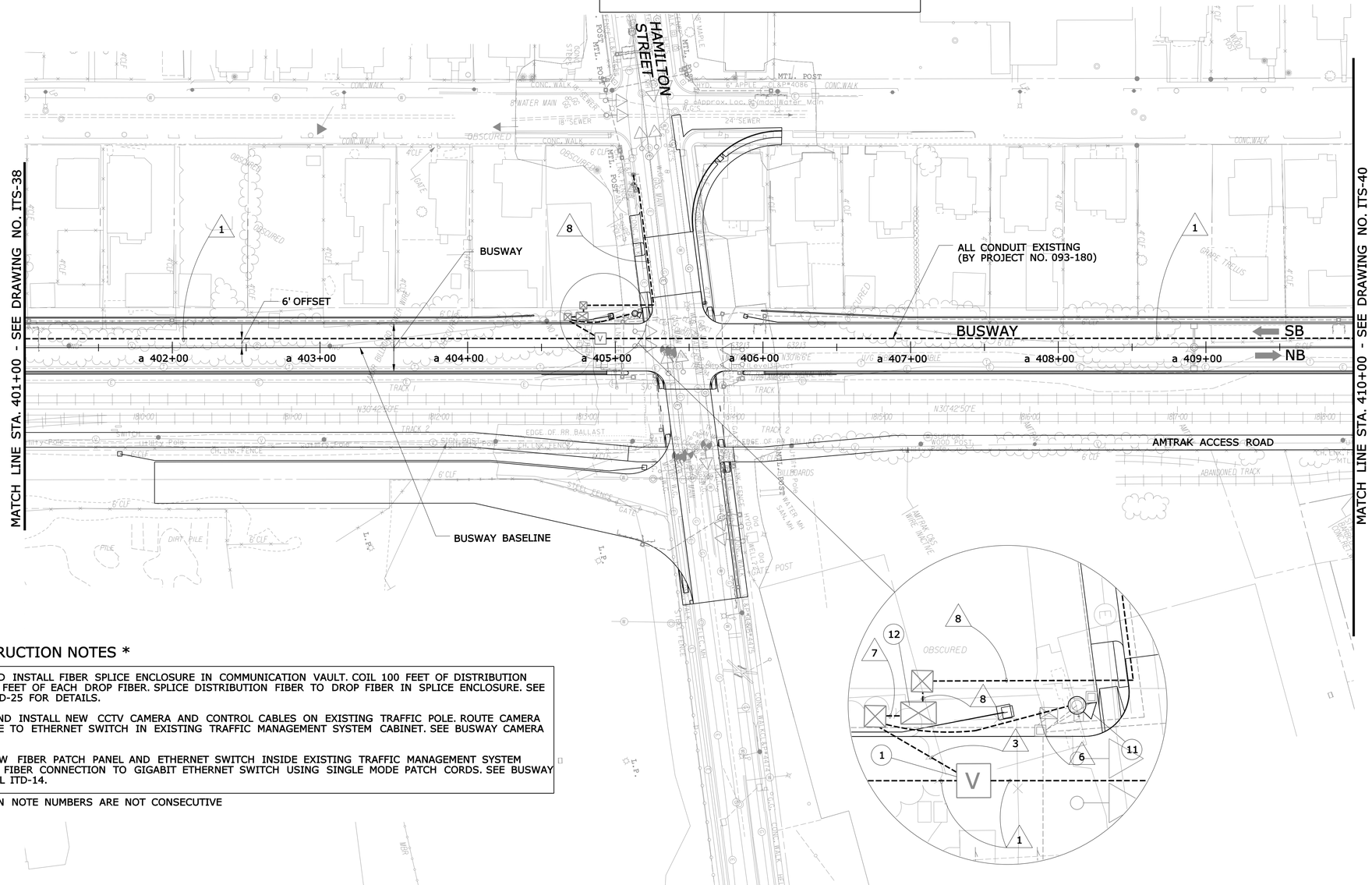
WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE
3	2" RMC		NONE	1-12SMFO	FIBER DROP
6	2" RMC		NONE	1-CC, 2-#14	CAMERA CABLE, CAMERA POWER
7	2" RMC		NONE	1-12SMFO	FIBER DROP
			NONE	1-CC	CAMERA CABLE
	2" RMC		NONE	2-#14	CAMERA POWER
8	3" RMC		NONE		CABINET POWER (BY PROJECT NO. 093-180)

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 093-180

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET



CONSTRUCTION NOTES *

1. FURNISH AND INSTALL FIBER SPLICE ENCLOSURE IN COMMUNICATION VAULT. COIL 100 FEET OF DISTRIBUTION FIBER AND 50 FEET OF EACH DROP FIBER. SPLICE DISTRIBUTION FIBER TO DROP FIBER IN SPLICE ENCLOSURE. SEE ITD-08 AND ITD-25 FOR DETAILS.

11. FURNISH AND INSTALL NEW CCTV CAMERA AND CONTROL CABLES ON EXISTING TRAFFIC POLE. ROUTE CAMERA CONTROL CABLE TO ETHERNET SWITCH IN EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET. SEE BUSWAY CAMERA DETAIL ITD-13.

12. INSTALL NEW FIBER PATCH PANEL AND ETHERNET SWITCH INSIDE EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET. MAKE FIBER CONNECTION TO GIGABIT ETHERNET SWITCH USING SINGLE MODE PATCH CORDS. SEE BUSWAY CABINET DETAIL ITD-14.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH.PLN.088..179.ITS-39.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179
DRAWING NO. ITS-39
SHEET NO. 01.05.039

Border Version: 10/19/07

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 093-180

CONSTRUCTION NOTES *

1. FURNISH AND INSTALL FIBER SPLICE ENCLOSURE IN COMMUNICATION VAULT. COIL 100 FEET OF DISTRIBUTION FIBER AND 50 FEET OF EACH DROP FIBER. SPLICE DISTRIBUTION FIBER TO DROP FIBER IN SPLICE ENCLOSURE. SEE ITD-08 AND ITD-25 FOR DETAILS.

2. COIL 100 FEET OF DISTRIBUTION FIBER IN COMMUNICATION VAULT. SEE FIBER STORAGE DETAIL ITD-25.

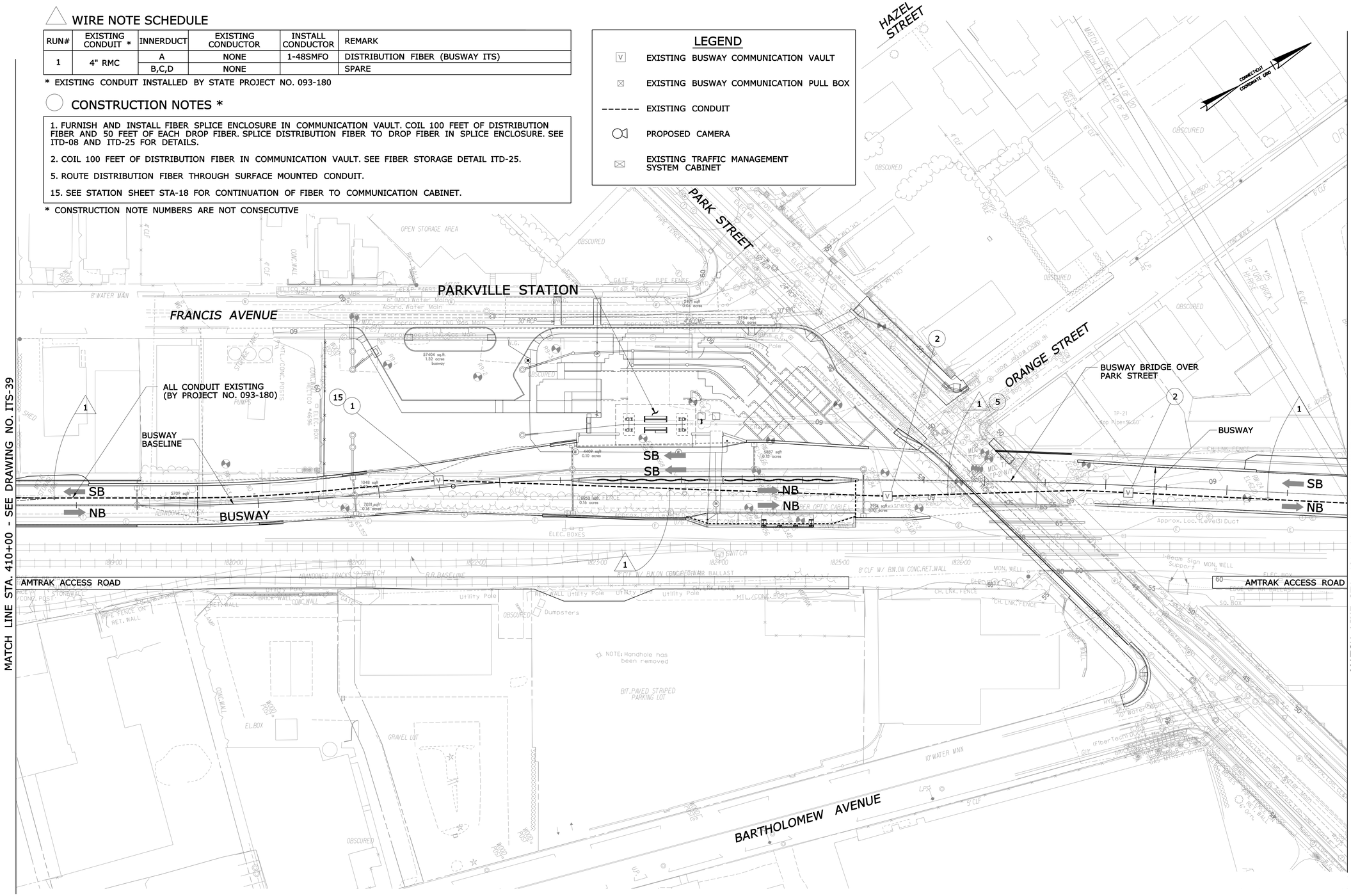
5. ROUTE DISTRIBUTION FIBER THROUGH SURFACE MOUNTED CONDUIT.

15. SEE STATION SHEET STA-18 FOR CONTINUATION OF FIBER TO COMMUNICATION CABINET.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM

CHECKED BY: CHP

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_PLN_088_179_ITS-40.dgn

IBI GROUP

IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CT*fastrak*
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179

DRAWING NO. ITS-40

SHEET NO. 01.05.040

Border Version: 10/19/07

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 093-180

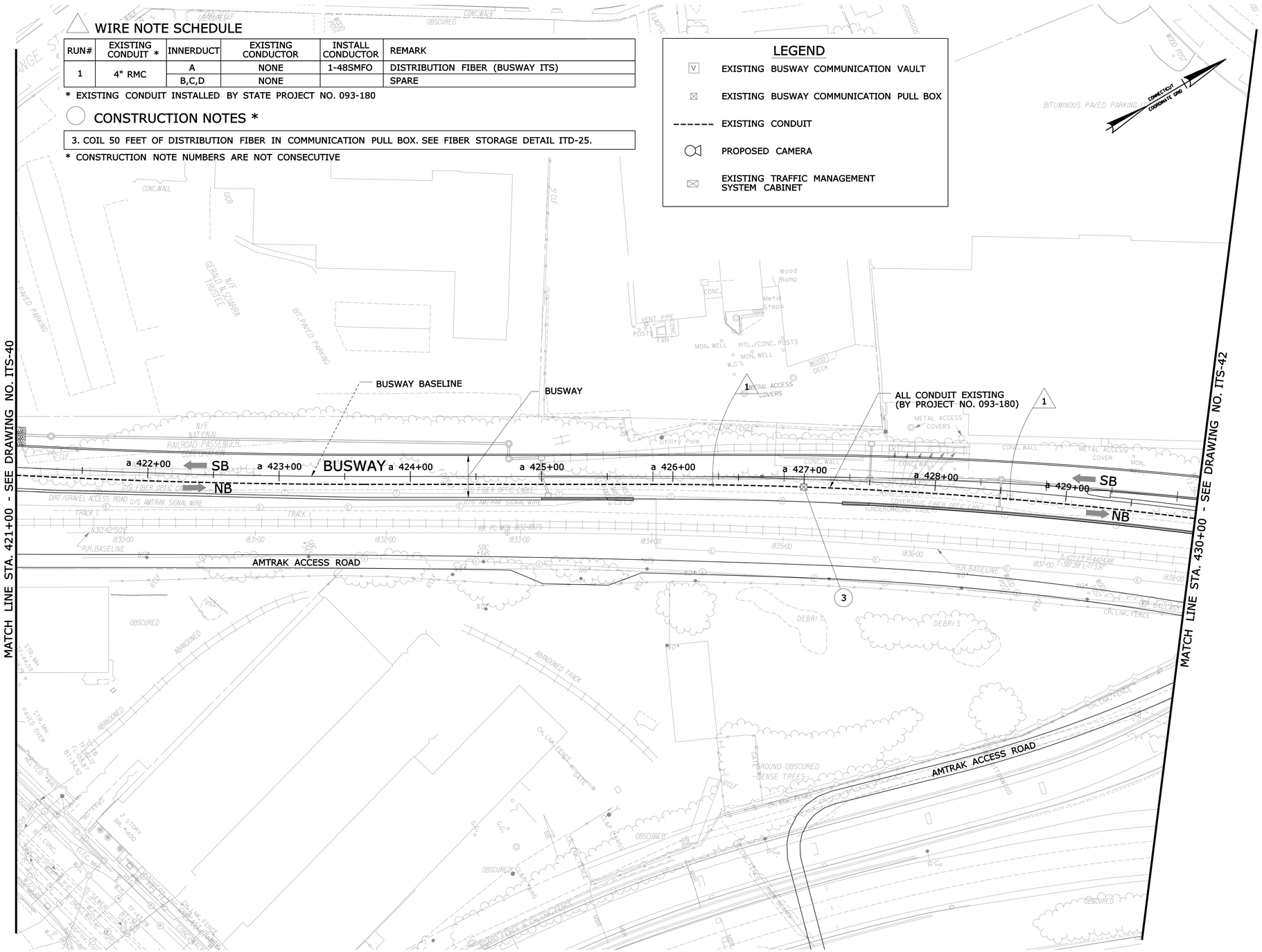
CONSTRUCTION NOTES *

3. COIL 50 FEET OF DISTRIBUTION FIBER IN COMMUNICATION PULL BOX. SEE FIBER STORAGE DETAIL ITD-25.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM

CHECKED BY: CHP

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..ITS-41.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CT*fastrak*
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179

DRAWING NO. ITS-41

SHEET NO. 01.05.041

Border Version: 10/19/07

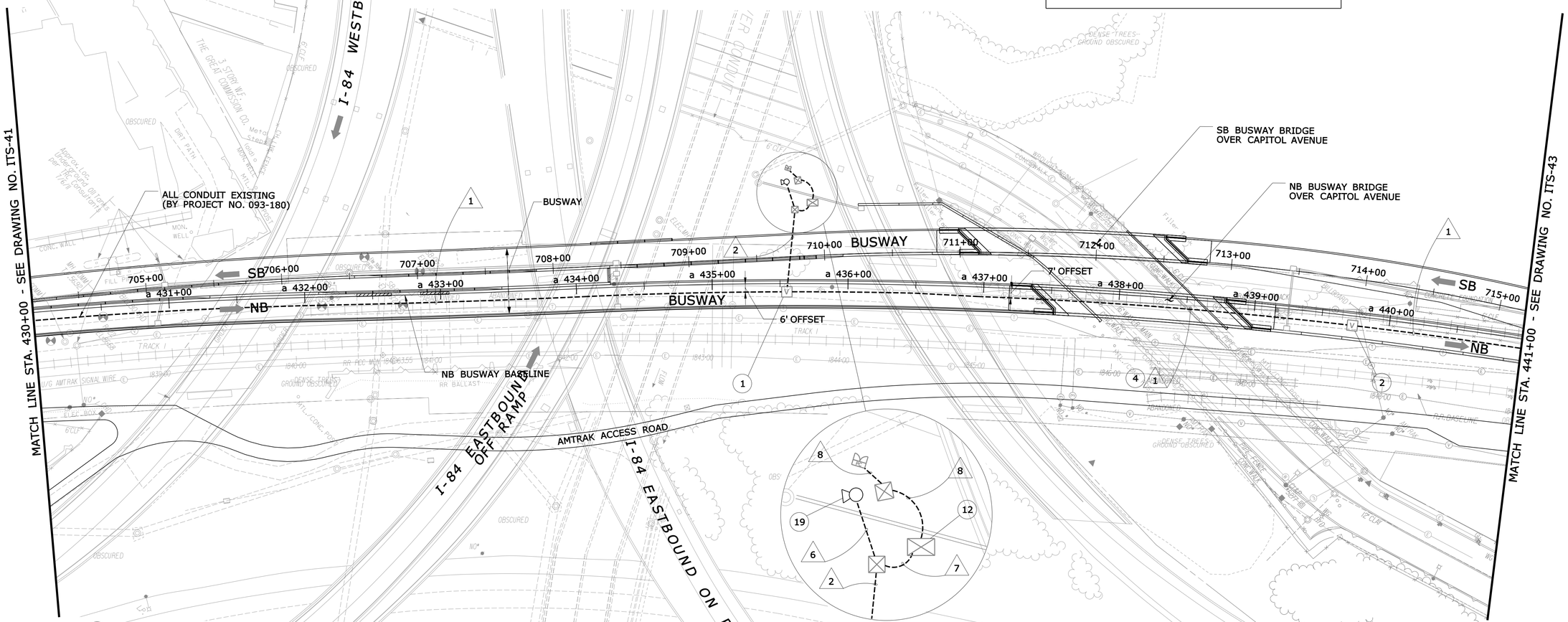
WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE
2	2" RMC		NONE	1-12SMFO	FIBER DROP
	2" RMC		NONE		EMPTY
6	2" RMC		NONE	1-CC, 2-#14	CAMERA CABLE, CAMERA POWER
7	2" RMC		NONE	1-12SMFO	FIBER DROP
			NONE	1-CC	CAMERA CABLE
	2" RMC		NONE	2-#14	CAMERA POWER
8	3" RMC		NONE		CABINET POWER (BY PROJECT NO. 093-180)

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 093-180

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET



CONSTRUCTION NOTES *

1. FURNISH AND INSTALL FIBER SPLICE ENCLOSURE IN COMMUNICATION VAULT. COIL 100 FEET OF DISTRIBUTION FIBER AND 50 FEET OF EACH DROP FIBER. SPLICE DISTRIBUTION FIBER TO DROP FIBER IN SPLICE ENCLOSURE. SEE ITD-08 AND ITD-25 FOR DETAILS.

2. COIL 100 FEET OF DISTRIBUTION FIBER IN COMMUNICATION VAULT. SEE FIBER STORAGE DETAIL ITD-25.

4. ROUTE DISTRIBUTION FIBER THROUGH BRIDGE CONDUIT.

12. INSTALL NEW FIBER PATCH PANEL AND ETHERNET SWITCH INSIDE EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET. MAKE FIBER CONNECTION TO GIGABIT ETHERNET SWITCH USING SINGLE MODE PATCH CORDS. SEE BUSWAY CABINET DETAIL ITD-14.

19. FURNISH AND INSTALL NEW CCTV CAMERA & CONTROL CABLE ON EXISTING 30 FT POLE. ROUTE CAMERA CONTROL CABLE TO ETHERNET SWITCH IN EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET. SEE BUSWAY CAMERA DETAIL SHEET ITD-13.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_PLN_088_179_ITS-42.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179
DRAWING NO. ITS-42
SHEET NO. 01.05.042

Border Version: 10/19/07

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 093-180

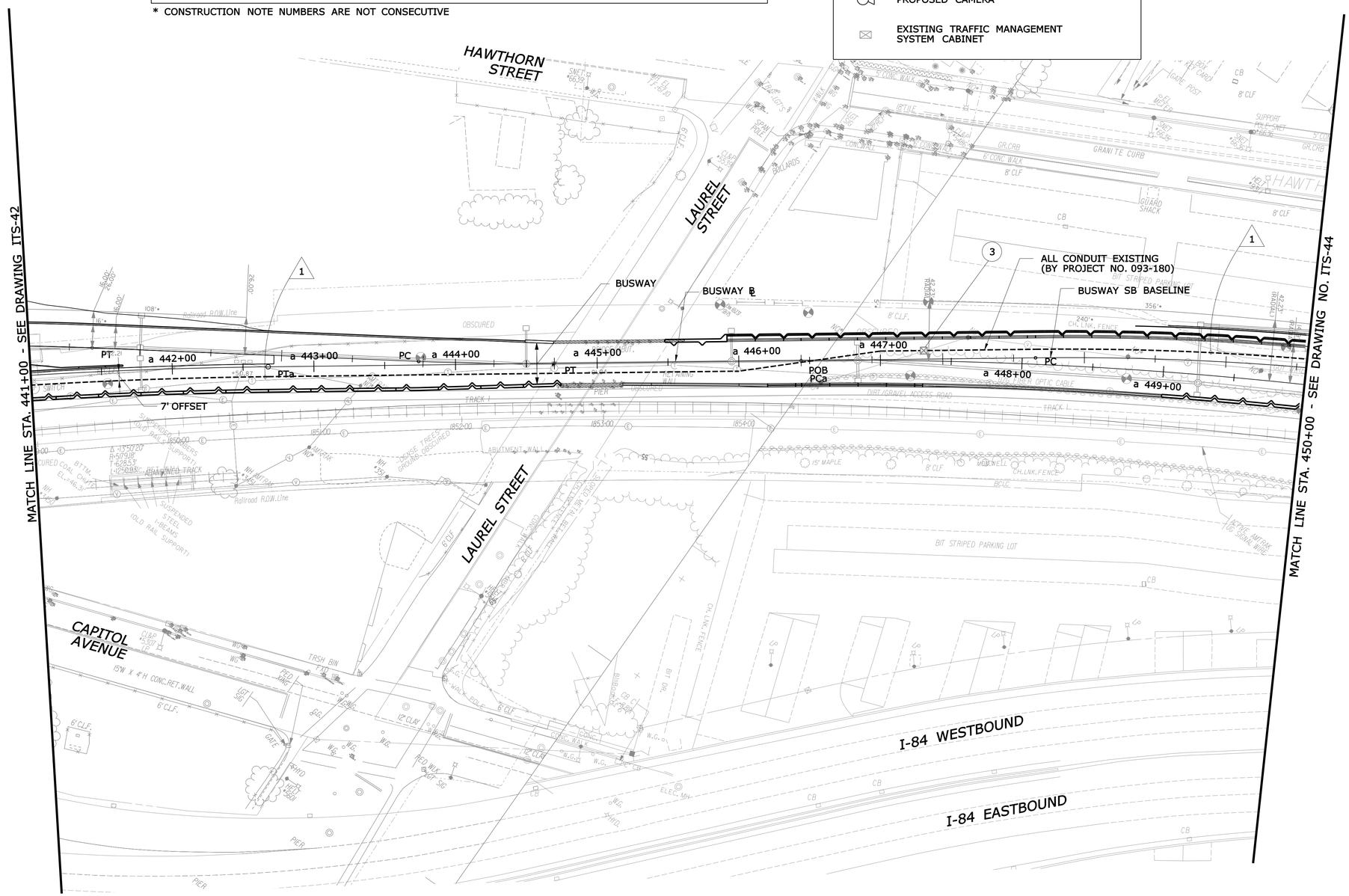
CONSTRUCTION NOTES *

3. COIL 50 FEET OF DISTRIBUTION FIBER IN COMMUNICATION PULL BOX. SEE FIBER STORAGE DETAIL ITD-25.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM

CHECKED BY: CHP

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..ITS-43.dgn

IBI GROUP

IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA

tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:

CT*fastrak*

ITS & COMMUNICATIONS SYSTEMS

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179

DRAWING NO. ITS-43

SHEET NO. 01.05.043

Border Version: 10/19/07

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE
3	2" RMC		NONE	1-12SMFO	FIBER DROP
6	2" RMC		NONE	1-CC, 2-#14	CAMERA CABLE, CAMERA POWER
7	2" RMC		NONE	1-12SMFO	FIBER DROP
			NONE	1-CC	CAMERA CABLE
	2" RMC		NONE	2-#14	CAMERA POWER
8	3" RMC		NONE		CABINET POWER (BY PROJECT NO. 093-180)

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 093-180

CONSTRUCTION NOTES *

1. FURNISH AND INSTALL FIBER SPLICE ENCLOSURE IN COMMUNICATION VAULT. COIL 100 FEET OF DISTRIBUTION FIBER AND 50 FEET OF EACH DROP FIBER. SPLICE DISTRIBUTION FIBER TO DROP FIBER IN SPLICE ENCLOSURE. SEE ITD-08 AND ITD-25 FOR DETAILS.

2. COIL 100 FEET OF DISTRIBUTION FIBER IN COMMUNICATION VAULT. SEE FIBER STORAGE DETAIL ITD-25.

12. INSTALL NEW FIBER PATCH PANEL AND ETHERNET SWITCH INSIDE EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET. MAKE FIBER CONNECTION TO GIGABIT ETHERNET SWITCH USING SINGLE MODE PATCH CORDS. SEE BUSWAY CABINET DETAIL ITD-14.

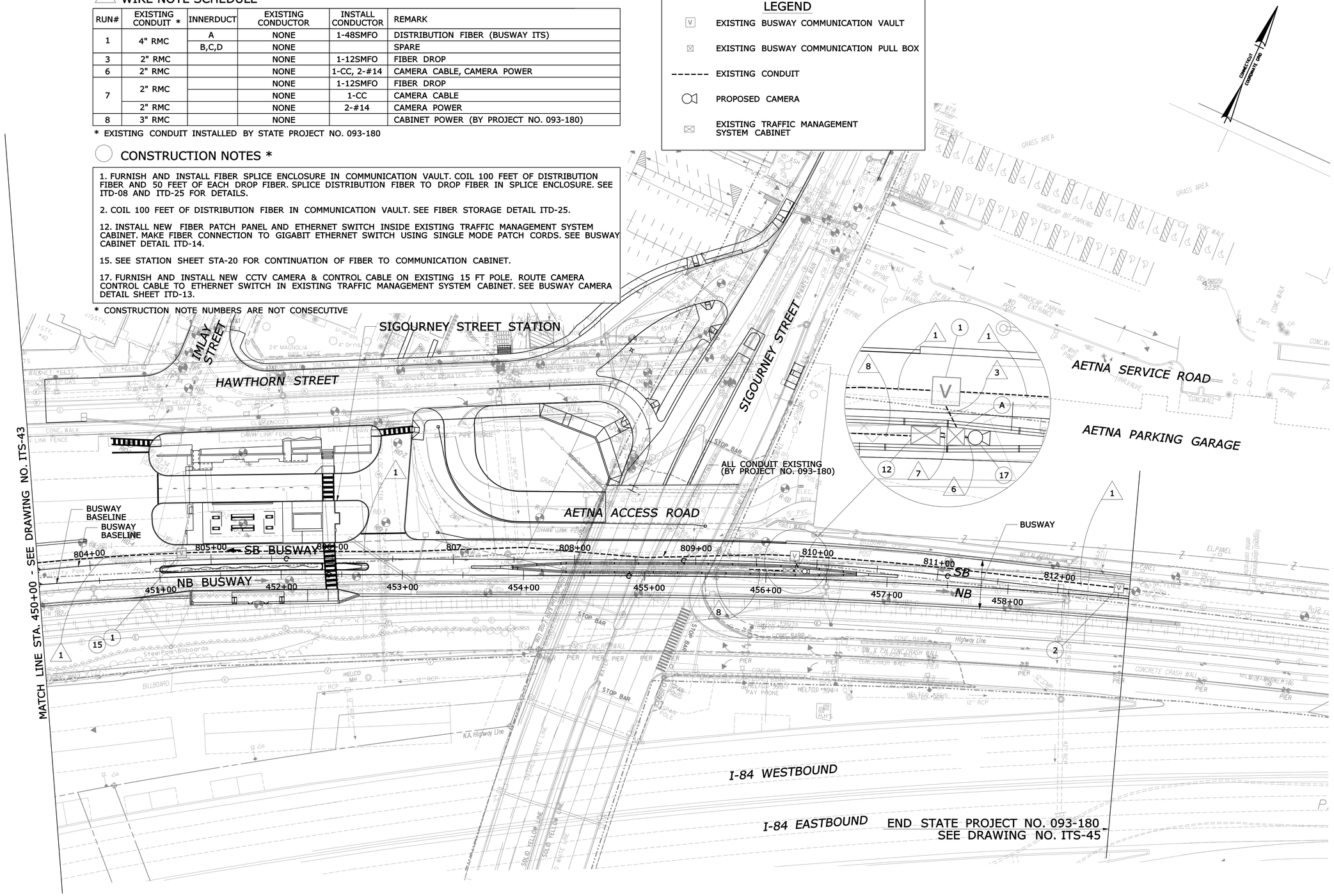
15. SEE STATION SHEET STA-20 FOR CONTINUATION OF FIBER TO COMMUNICATION CABINET.

17. FURNISH AND INSTALL NEW CCTV CAMERA & CONTROL CABLE ON EXISTING 15 FT POLE. ROUTE CAMERA CONTROL CABLE TO ETHERNET SWITCH IN EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET. SEE BUSWAY CAMERA DETAIL SHEET ITD-13.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..ITS-44.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CT*fastrak*
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179
DRAWING NO. ITS-44
SHEET NO. 01.05.044

Border Version: 10/19/07

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 063-670

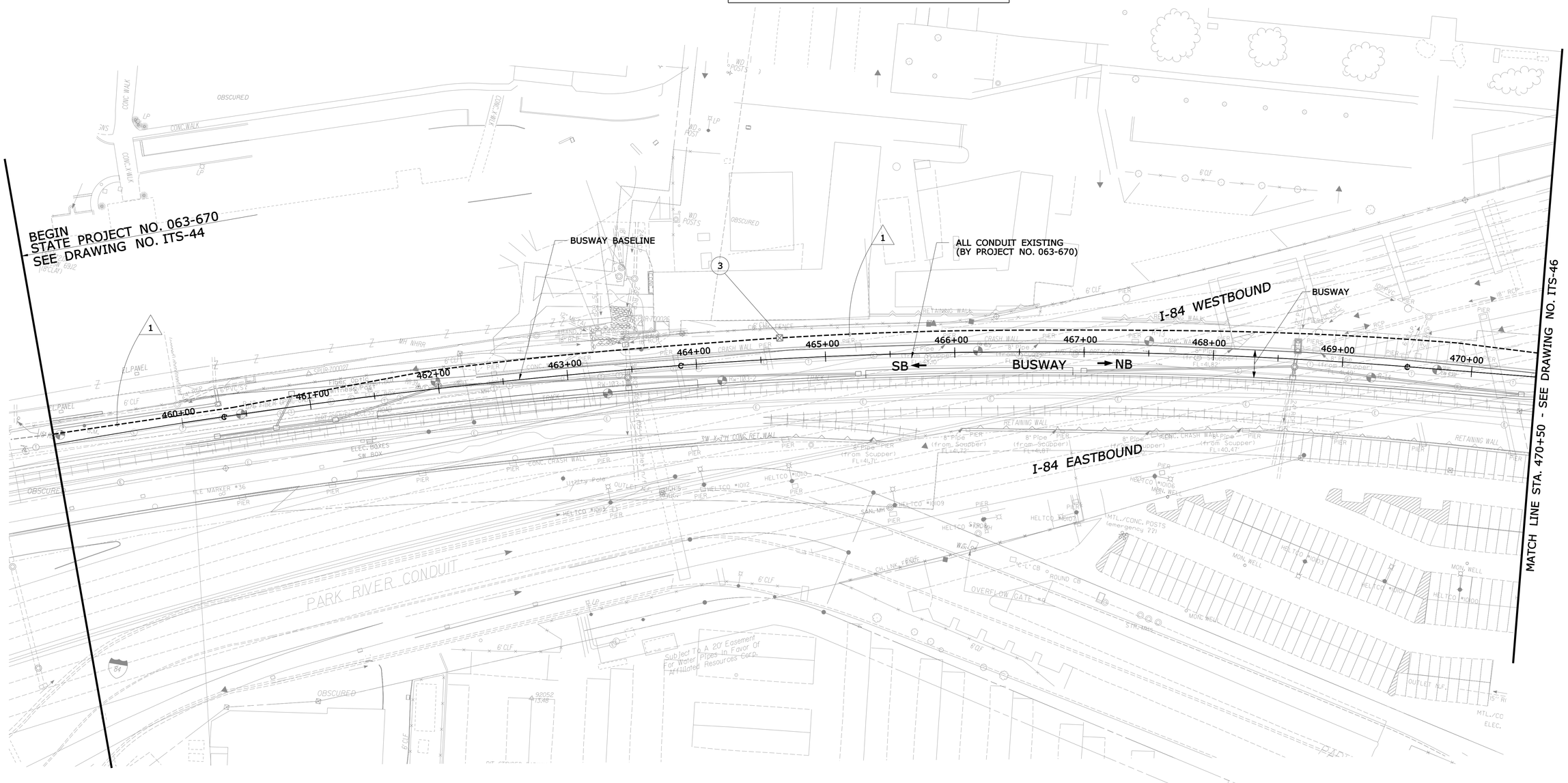
CONSTRUCTION NOTES *

3. COIL 50 FEET OF DISTRIBUTION FIBER IN COMMUNICATION PULL BOX. SEE FIBER STORAGE DETAIL ITD-25.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM

CHECKED BY: CHP

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..ITS-45.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: HARTFORD

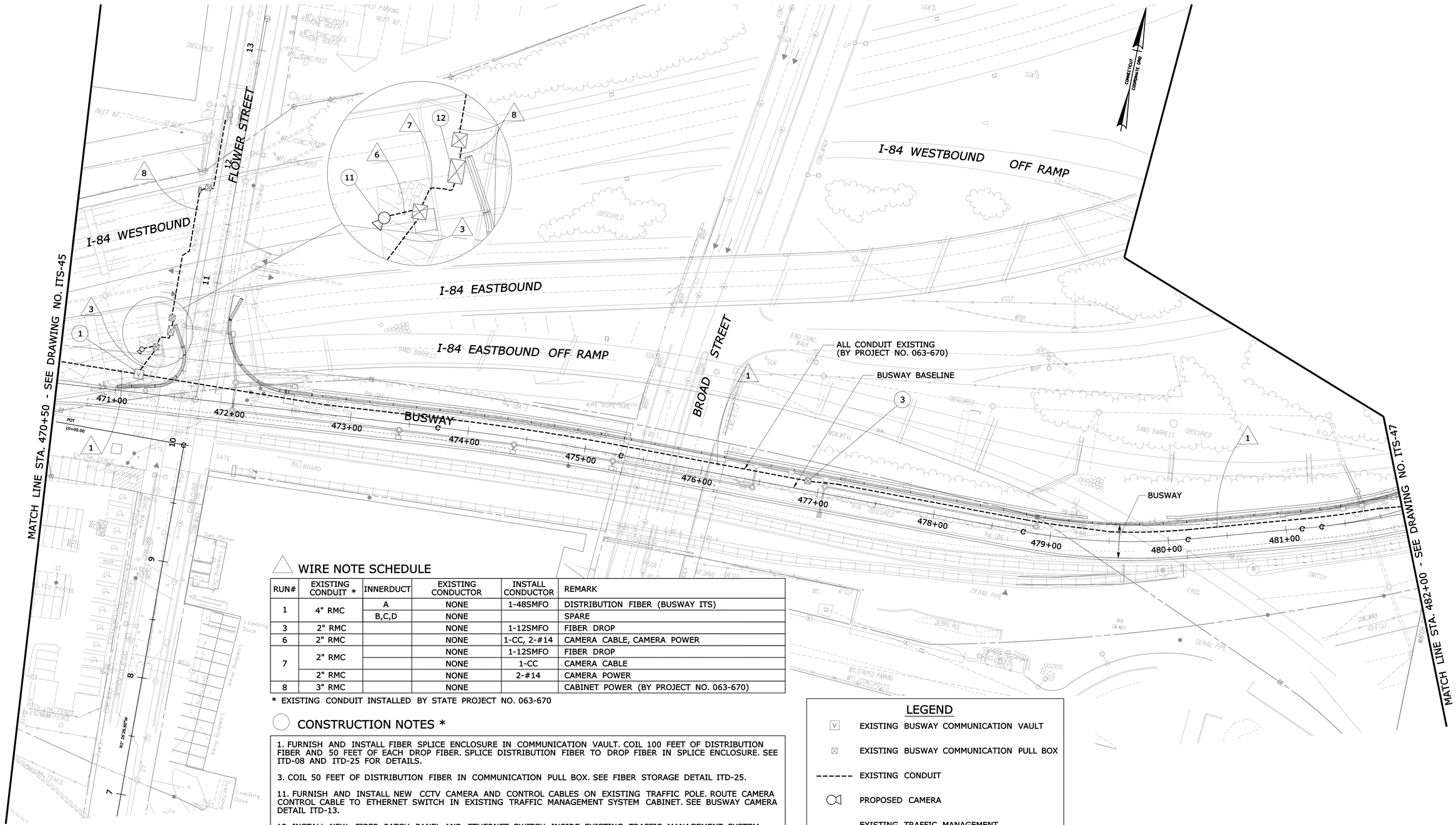
DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179

DRAWING NO. ITS-45

SHEET NO. 01.05.045

Border Version: 10/19/07



WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE
3	2" RMC		NONE	1-12SMFO	FIBER DROP
6	2" RMC		NONE	1-CC, 2-#14	CAMERA CABLE, CAMERA POWER
7	2" RMC		NONE	1-12SMFO	FIBER DROP
			NONE	1-CC	CAMERA CABLE
	2" RMC		NONE	2-#14	CAMERA POWER
8	3" RMC		NONE		CABINET POWER (BY PROJECT NO. 063-670)

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 063-670

CONSTRUCTION NOTES *

1. FURNISH AND INSTALL FIBER SPLICE ENCLOSURE IN COMMUNICATION VAULT. COIL 100 FEET OF DISTRIBUTION FIBER AND 50 FEET OF EACH DROP FIBER. SPLICE DISTRIBUTION FIBER TO DROP FIBER IN SPLICE ENCLOSURE. SEE ITD-08 AND ITD-25 FOR DETAILS.

3. COIL 50 FEET OF DISTRIBUTION FIBER IN COMMUNICATION PULL BOX. SEE FIBER STORAGE DETAIL ITD-25.

11. FURNISH AND INSTALL NEW CCTV CAMERA AND CONTROL CABLES ON EXISTING TRAFFIC POLE. ROUTE CAMERA CONTROL CABLE TO ETHERNET SWITCH IN EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET. SEE BUSWAY CAMERA DETAIL ITD-13.

12. INSTALL NEW FIBER PATCH PANEL AND ETHERNET SWITCH INSIDE EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET. MAKE FIBER CONNECTION TO GIGABIT ETHERNET SWITCH USING SINGLE MODE PATCH CORDS. SEE BUSWAY CABINET DETAIL ITD-14.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..ITS-46.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: HARTFORD

DRAWING TITLE:
COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179
DRAWING NO. ITS-46
SHEET NO. 01.05.046

Border Version: 10/19/07

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE
3	2" RMC		NONE	1-12SMFO	FIBER DROP
6	2" RMC		NONE	1-CC, 2-#14	CAMERA CABLE, CAMERA POWER
7	2" RMC		NONE	1-12SMFO	FIBER DROP
			NONE	1-CC	CAMERA CABLE
	2" RMC		NONE	2-#14	CAMERA POWER
8	3" RMC		NONE		CABINET POWER (BY PROJECT NO. 063-670)

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 063-670

CONSTRUCTION NOTES *

1. FURNISH AND INSTALL FIBER SPLICE ENCLOSURE IN COMMUNICATION VAULT. COIL 100 FEET OF DISTRIBUTION FIBER AND 50 FEET OF EACH DROP FIBER. SPLICE DISTRIBUTION FIBER TO DROP FIBER IN SPLICE ENCLOSURE. SEE ITD-08 AND ITD-25 FOR DETAILS.

2. COIL 100 FEET OF DISTRIBUTION FIBER IN COMMUNICATION VAULT. SEE FIBER STORAGE DETAIL ITD-25.

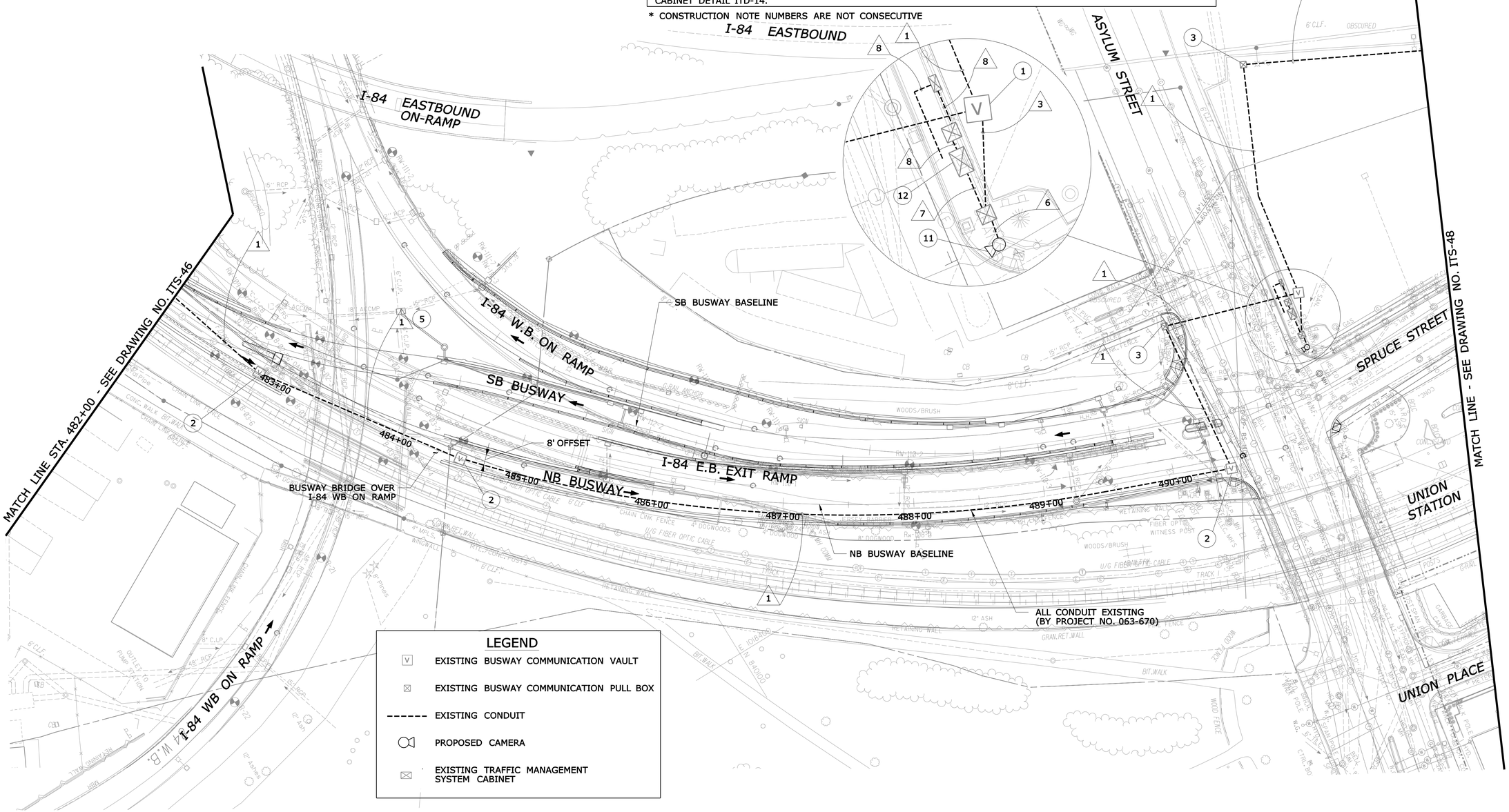
3. COIL 50 FEET OF DISTRIBUTION FIBER IN COMMUNICATION PULL BOX. SEE FIBER STORAGE DETAIL ITD-25.

5. ROUTE DISTRIBUTION FIBER THROUGH SURFACE MOUNTED CONDUIT.

11. FURNISH AND INSTALL NEW CCTV CAMERA AND CONTROL CABLES ON EXISTING TRAFFIC POLE. ROUTE CAMERA CONTROL CABLE TO ETHERNET SWITCH IN EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET. SEE BUSWAY CAMERA DETAIL ITD-13.

12. INSTALL NEW FIBER PATCH PANEL AND ETHERNET SWITCH INSIDE EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET. MAKE FIBER CONNECTION TO GIGABIT ETHERNET SWITCH USING SINGLE MODE PATCH CORDS. SEE BUSWAY CABINET DETAIL ITD-14.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: **LM/SM**

CHECKED BY: **CHP**

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..ITS-47.dgn

IBI GROUP

IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: **HARTFORD**

DRAWING TITLE: **COMMUNICATION CORRIDOR PLAN**

PROJECT NO. **088-179**

DRAWING NO. **ITS-47**

SHEET NO. **01.05.047**

Border Version: 10/19/07

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING HIGHWAY OPERATIONS IMS PULL BOX
- EXISTING HIGHWAY OPERATIONS JUNCTION BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET
- HIGHWAY OPERATIONS IMS 4" MULTIDUCT CONDUIT TYPICAL INNERDUCT DETAIL

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
1	4" RMC *	A	NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		B,C,D	NONE		SPARE
4	4" RMC (HOIMS)	A	1-60 FIBER IMS		IMS FIBER CABLE
		B		1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		C,D			SPARE

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 063-670

CONSTRUCTION NOTES *

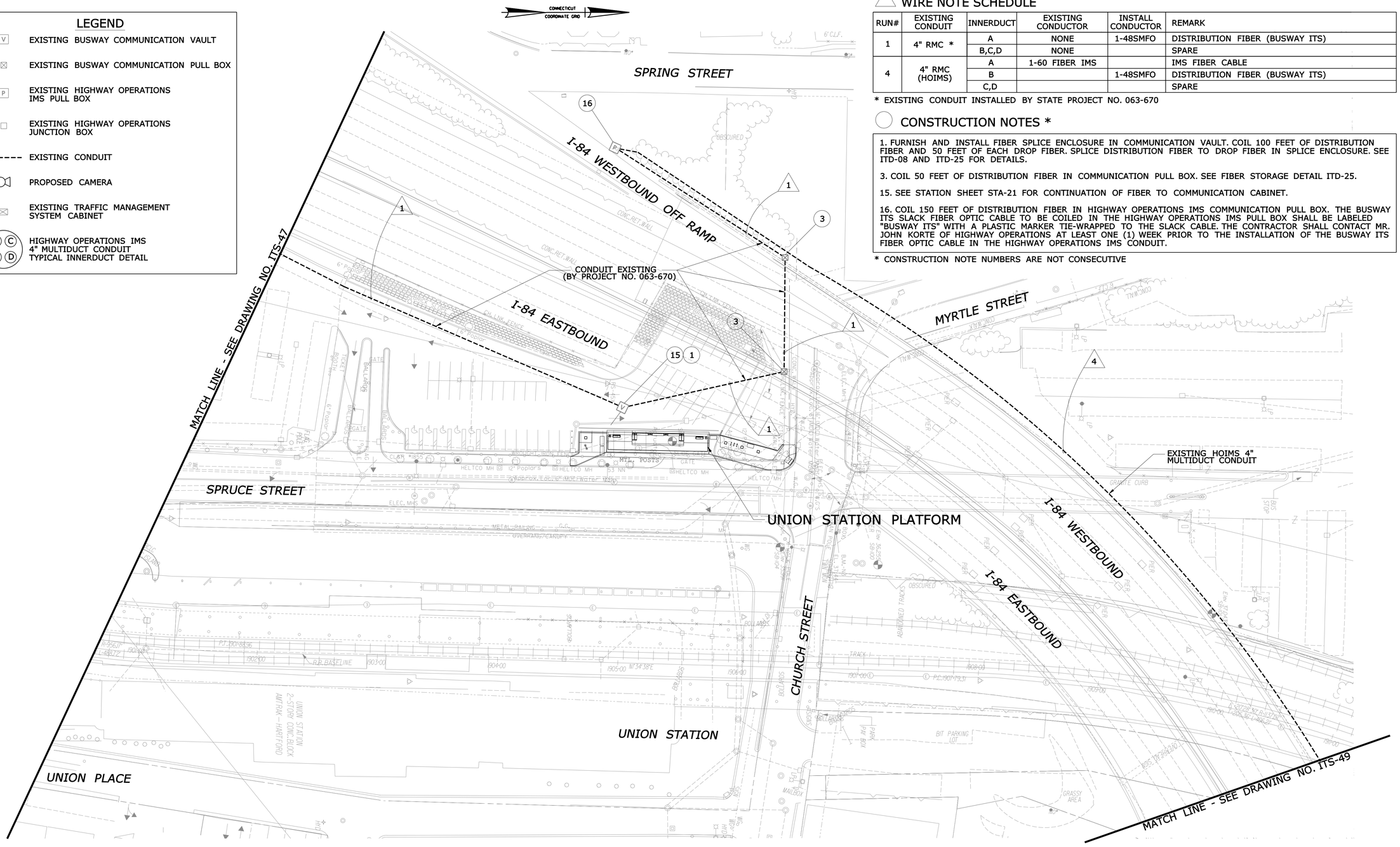
1. FURNISH AND INSTALL FIBER SPLICE ENCLOSURE IN COMMUNICATION VAULT. COIL 100 FEET OF DISTRIBUTION FIBER AND 50 FEET OF EACH DROP FIBER. SPLICE DISTRIBUTION FIBER TO DROP FIBER IN SPLICE ENCLOSURE. SEE ITD-08 AND ITD-25 FOR DETAILS.

3. COIL 50 FEET OF DISTRIBUTION FIBER IN COMMUNICATION PULL BOX. SEE FIBER STORAGE DETAIL ITD-25.

15. SEE STATION SHEET STA-21 FOR CONTINUATION OF FIBER TO COMMUNICATION CABINET.

16. COIL 150 FEET OF DISTRIBUTION FIBER IN HIGHWAY OPERATIONS IMS COMMUNICATION PULL BOX. THE BUSWAY ITS SLACK FIBER OPTIC CABLE TO BE COILED IN THE HIGHWAY OPERATIONS IMS PULL BOX SHALL BE LABELED "BUSWAY ITS" WITH A PLASTIC MARKER TIE-WRAPPED TO THE SLACK CABLE. THE CONTRACTOR SHALL CONTACT MR. JOHN KORTE OF HIGHWAY OPERATIONS AT LEAST ONE (1) WEEK PRIOR TO THE INSTALLATION OF THE BUSWAY ITS FIBER OPTIC CABLE IN THE HIGHWAY OPERATIONS IMS CONDUIT.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_PLN_088_179_ITS-48.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

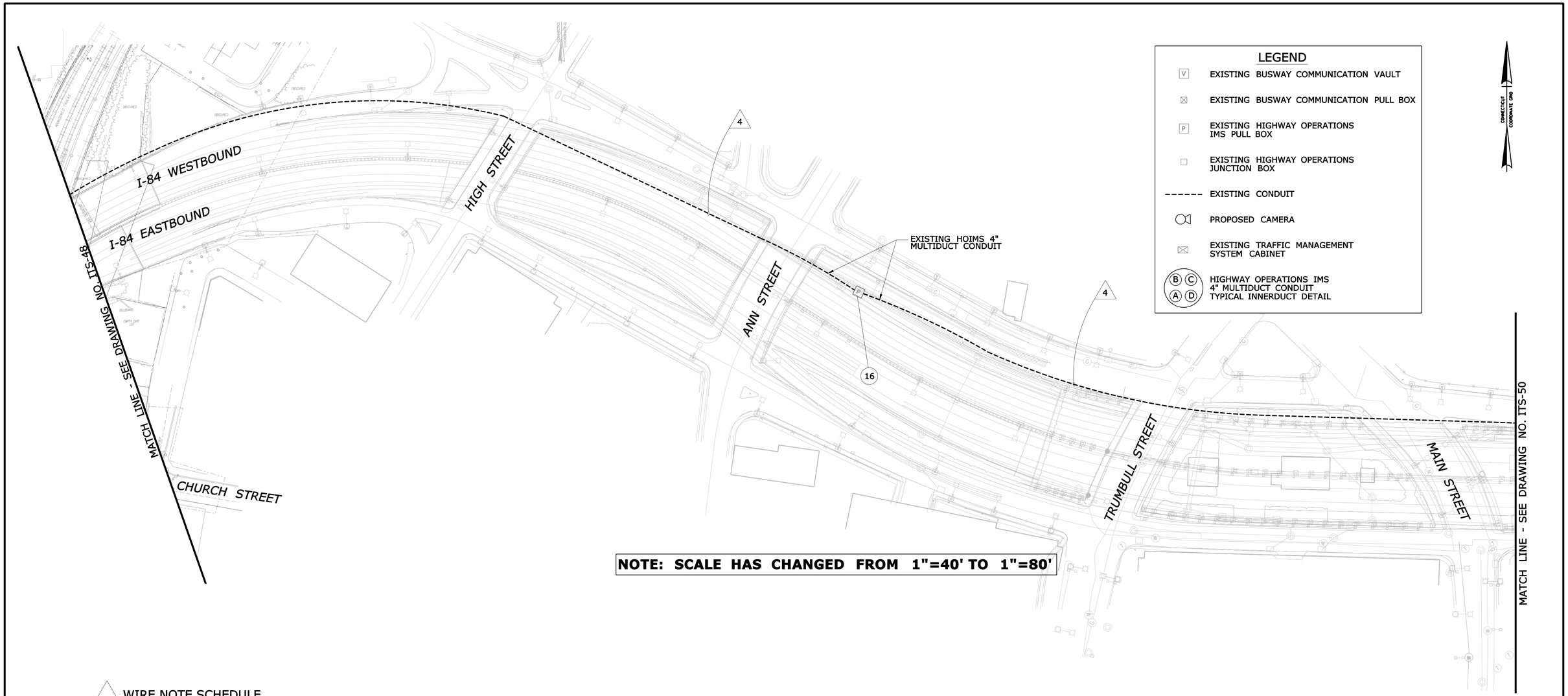
PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: HARTFORD

DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179
DRAWING NO. ITS-48
SHEET NO. 01.05.048

Border Version: 10/19/07



NOTE: SCALE HAS CHANGED FROM 1"=40' TO 1"=80'

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
4	4" RMC (HOIMS)	A	1-60 FIBER IMS		IMS FIBER CABLE
		B		1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		C,D			SPARE

CONSTRUCTION NOTES *

16. COIL 150 FEET OF DISTRIBUTION FIBER IN HIGHWAY OPERATIONS IMS COMMUNICATION PULL BOX. THE BUSWAY ITS SLACK FIBER OPTIC CABLE TO BE COILED IN THE HIGHWAY OPERATIONS IMS PULL BOX SHALL BE LABELED "BUSWAY ITS" WITH A PLASTIC MARKER TIE-WRAPPED TO THE SLACK CABLE. THE CONTRACTOR SHALL CONTACT MR. JOHN KORTE OF HIGHWAY OPERATIONS AT LEAST ONE (1) WEEK PRIOR TO THE INSTALLATION OF THE BUSWAY ITS FIBER OPTIC CABLE IN THE HIGHWAY OPERATIONS IMS CONDUIT.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 80 160
SCALE 1"=80'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_PLN_088_179_ITS-49.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

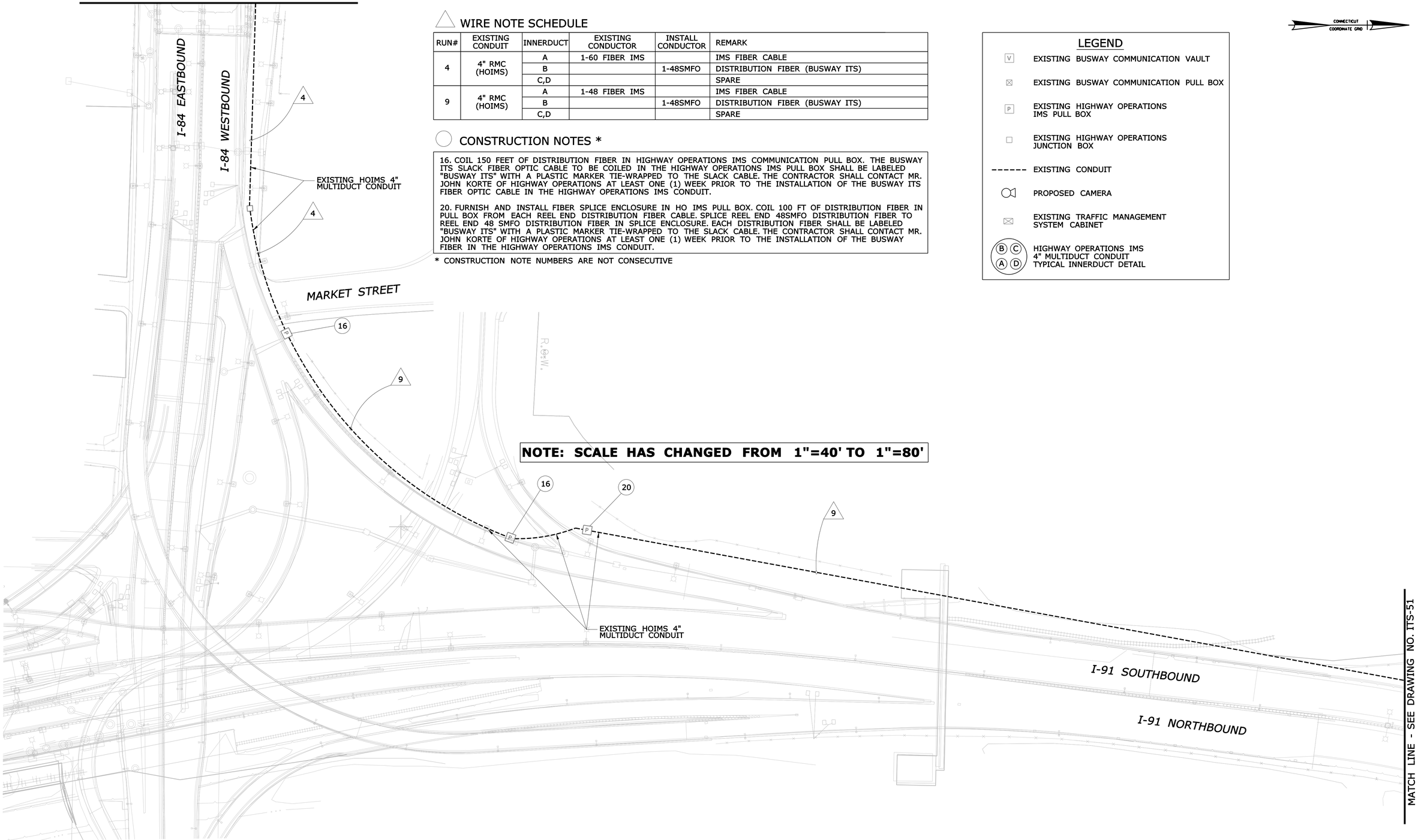
TOWN: HARTFORD

DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179
DRAWING NO. ITS-49
SHEET NO. 01.05.049

Border Version: 10/19/07

MATCH LINE SEE DRAWING NO. ITS-49



WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
4	4" RMC (HOIMS)	A	1-60 FIBER IMS		IMS FIBER CABLE
		B		1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		C,D			SPARE
9	4" RMC (HOIMS)	A	1-48 FIBER IMS		IMS FIBER CABLE
		B		1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		C,D			SPARE

CONSTRUCTION NOTES *

16. COIL 150 FEET OF DISTRIBUTION FIBER IN HIGHWAY OPERATIONS IMS COMMUNICATION PULL BOX. THE BUSWAY ITS SLACK FIBER OPTIC CABLE TO BE COILED IN THE HIGHWAY OPERATIONS IMS PULL BOX SHALL BE LABELED "BUSWAY ITS" WITH A PLASTIC MARKER TIE-WRAPPED TO THE SLACK CABLE. THE CONTRACTOR SHALL CONTACT MR. JOHN KORTE OF HIGHWAY OPERATIONS AT LEAST ONE (1) WEEK PRIOR TO THE INSTALLATION OF THE BUSWAY ITS FIBER OPTIC CABLE IN THE HIGHWAY OPERATIONS IMS CONDUIT.

20. FURNISH AND INSTALL FIBER SPLICE ENCLOSURE IN HO IMS PULL BOX. COIL 100 FT OF DISTRIBUTION FIBER IN PULL BOX FROM EACH REEL END DISTRIBUTION FIBER CABLE. SPLICE REEL END 48SMFO DISTRIBUTION FIBER TO REEL END 48 SMFO DISTRIBUTION FIBER IN SPLICE ENCLOSURE. EACH DISTRIBUTION FIBER SHALL BE LABELED "BUSWAY ITS" WITH A PLASTIC MARKER TIE-WRAPPED TO THE SLACK CABLE. THE CONTRACTOR SHALL CONTACT MR. JOHN KORTE OF HIGHWAY OPERATIONS AT LEAST ONE (1) WEEK PRIOR TO THE INSTALLATION OF THE BUSWAY FIBER IN THE HIGHWAY OPERATIONS IMS CONDUIT.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

NOTE: SCALE HAS CHANGED FROM 1"=40' TO 1"=80'

LEGEND

- V — EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- P — EXISTING HIGHWAY OPERATIONS IMS PULL BOX
- EXISTING HIGHWAY OPERATIONS JUNCTION BOX
- ------ EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET
- B C / A D — HIGHWAY OPERATIONS IMS 4" MULTIDUCT CONDUIT TYPICAL INNERDUCT DETAIL

CONNECTICUT COORDINATE GRID

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 80 160
SCALE 1"=80'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..ITS-50.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: HARTFORD

DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179
DRAWING NO. ITS-50
SHEET NO. 01.05.050

Border Version: 10/19/07

CONSTRUCTION NOTES *

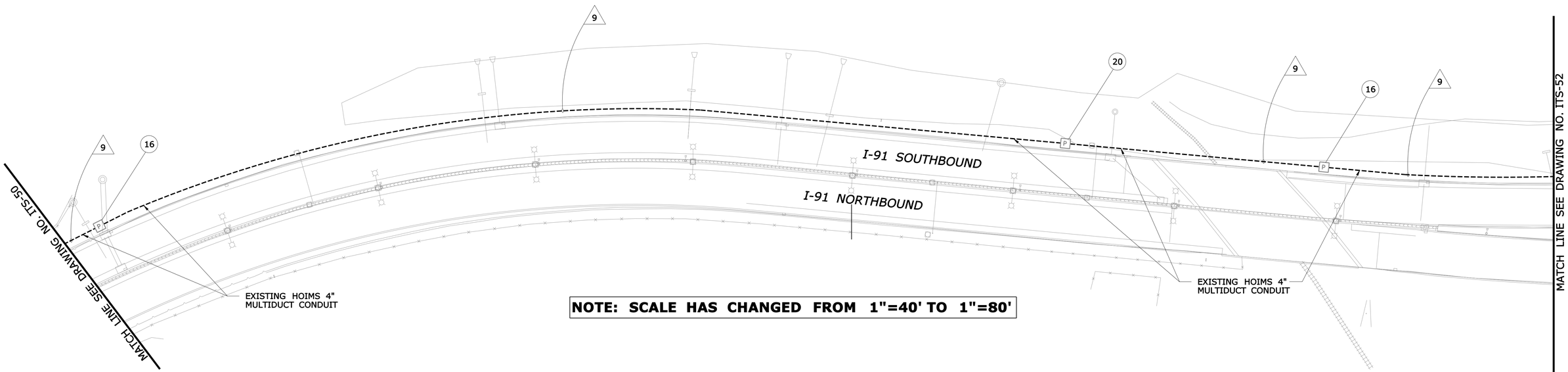
16. COIL 150 FEET OF DISTRIBUTION FIBER IN HIGHWAY OPERATIONS IMS COMMUNICATION PULL BOX. THE BUSWAY ITS SLACK FIBER OPTIC CABLE TO BE COILED IN THE HIGHWAY OPERATIONS IMS PULL BOX SHALL BE LABELED "BUSWAY ITS" WITH A PLASTIC MARKER TIE-WRAPPED TO THE SLACK CABLE. THE CONTRACTOR SHALL CONTACT MR. JOHN KORTE OF HIGHWAY OPERATIONS AT LEAST ONE (1) WEEK PRIOR TO THE INSTALLATION OF THE BUSWAY ITS FIBER OPTIC CABLE IN THE HIGHWAY OPERATIONS IMS CONDUIT.

20. FURNISH AND INSTALL FIBER SPLICE ENCLOSURE IN HO IMS PULL BOX. COIL 100 FT OF DISTRIBUTION FIBER IN PULL BOX FROM EACH REEL END DISTRIBUTION FIBER CABLE. SPLICE REEL END 48SMFO DISTRIBUTION FIBER TO REEL END 48 SMFO DISTRIBUTION FIBER IN SPLICE ENCLOSURE. EACH DISTRIBUTION FIBER SHALL BE LABELED "BUSWAY ITS" WITH A PLASTIC MARKER TIE-WRAPPED TO THE SLACK CABLE. THE CONTRACTOR SHALL CONTACT MR. JOHN KORTE OF HIGHWAY OPERATIONS AT LEAST ONE (1) WEEK PRIOR TO THE INSTALLATION OF THE BUSWAY FIBER IN THE HIGHWAY OPERATIONS IMS CONDUIT.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
9	4" RMC (HOIMS)	A	1-48 FIBER IMS		IMS FIBER CABLE
		B		1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		C,D			SPARE



NOTE: SCALE HAS CHANGED FROM 1"=40' TO 1"=80'

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING HIGHWAY OPERATIONS IMS PULL BOX
- EXISTING HIGHWAY OPERATIONS JUNCTION BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET
- HIGHWAY OPERATIONS IMS 4" MULTIDUCT CONDUIT TYPICAL INNERDUCT DETAIL

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 80 160
SCALE 1"=80'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..ITS-51.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE: CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: HARTFORD

DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179
DRAWING NO. ITS-51
SHEET NO. 01.05.051

Border Version: 10/19/07

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
9	4" RMC (HOIMS)	A	1-48 FIBER IMS		IMS FIBER CABLE
		B		1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		C,D			SPARE

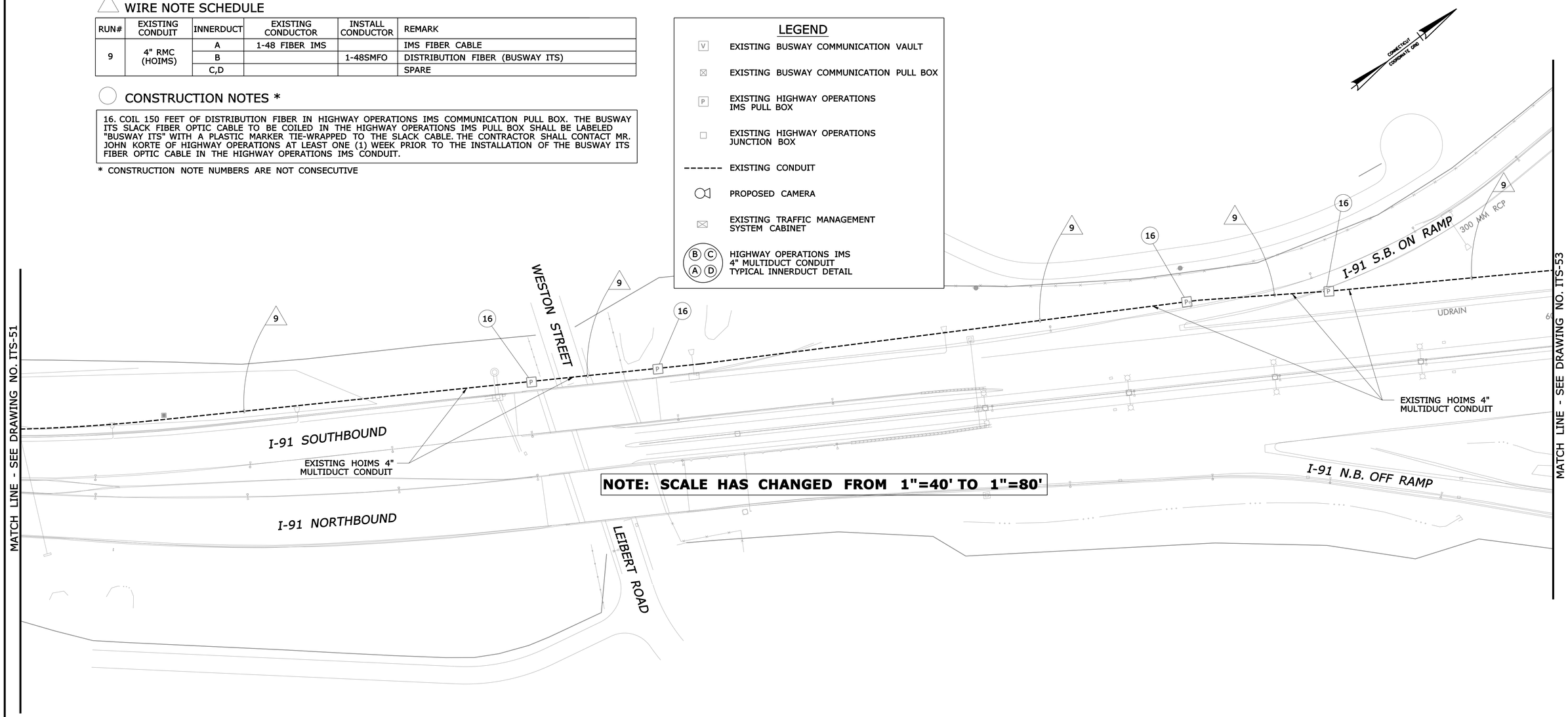
CONSTRUCTION NOTES *

16. COIL 150 FEET OF DISTRIBUTION FIBER IN HIGHWAY OPERATIONS IMS COMMUNICATION PULL BOX. THE BUSWAY ITS SLACK FIBER OPTIC CABLE TO BE COILED IN THE HIGHWAY OPERATIONS IMS PULL BOX SHALL BE LABELED "BUSWAY ITS" WITH A PLASTIC MARKER TIE-WRAPPED TO THE SLACK CABLE. THE CONTRACTOR SHALL CONTACT MR. JOHN KORTE OF HIGHWAY OPERATIONS AT LEAST ONE (1) WEEK PRIOR TO THE INSTALLATION OF THE BUSWAY ITS FIBER OPTIC CABLE IN THE HIGHWAY OPERATIONS IMS CONDUIT.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING HIGHWAY OPERATIONS IMS PULL BOX
- EXISTING HIGHWAY OPERATIONS JUNCTION BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET
- HIGHWAY OPERATIONS IMS 4" MULTIDUCT CONDUIT TYPICAL INNERDUCT DETAIL



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM

CHECKED BY: CHP

SCALE IN FEET 0 80 160

SCALE 1"=80'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..ITS-52.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: HARTFORD

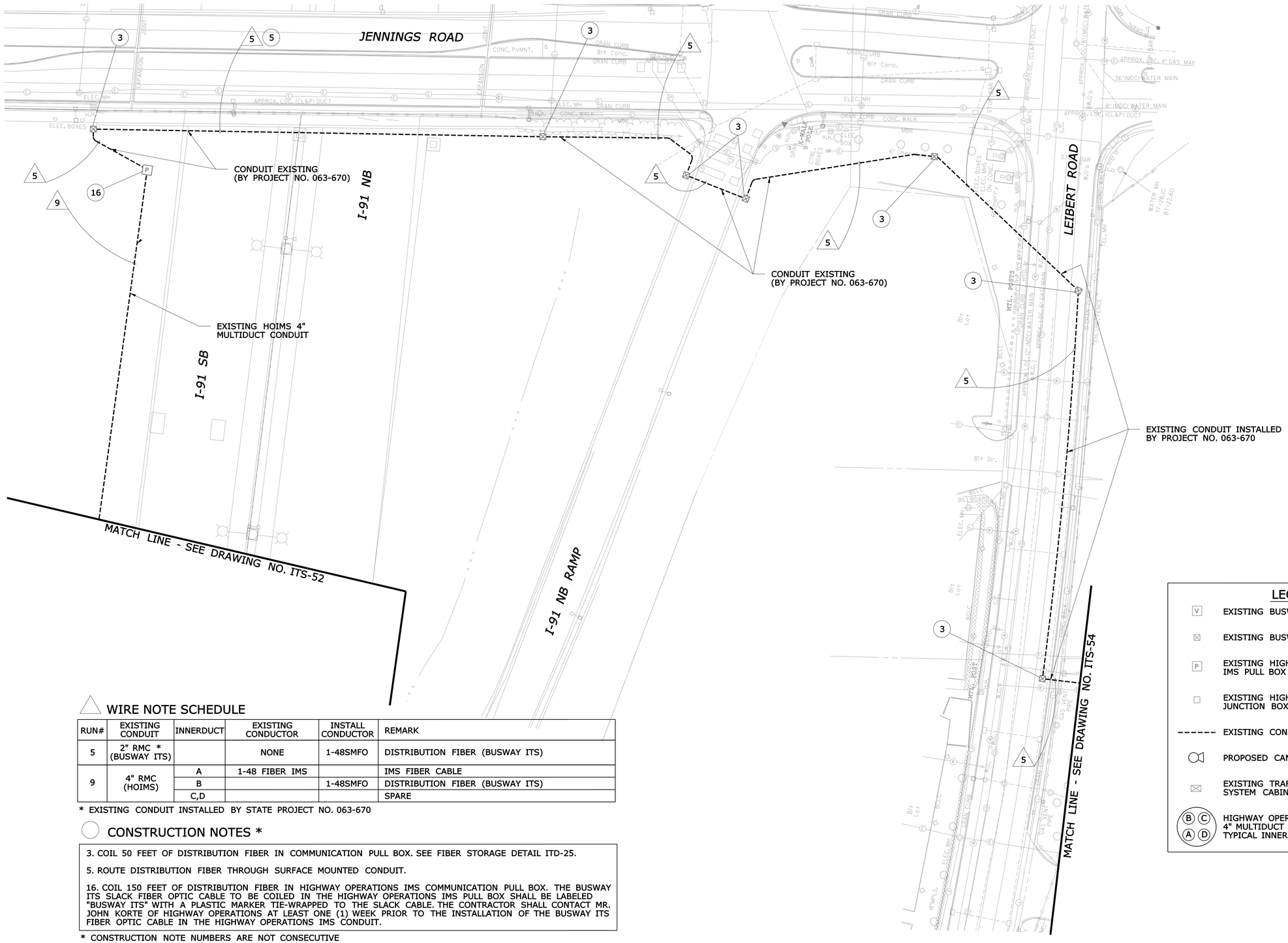
DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179

DRAWING NO. ITS-52

SHEET NO. 01.05.052

Border Version: 10/19/07



WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
5	2" RMC * (BUSWAY ITS)		NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
9	4" RMC (HOIMS)	A	1-48 FIBER IMS		IMS FIBER CABLE
		B		1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)
		C,D			SPARE

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 063-670

CONSTRUCTION NOTES *

3. COIL 50 FEET OF DISTRIBUTION FIBER IN COMMUNICATION PULL BOX. SEE FIBER STORAGE DETAIL ITD-25.

5. ROUTE DISTRIBUTION FIBER THROUGH SURFACE MOUNTED CONDUIT.

16. COIL 150 FEET OF DISTRIBUTION FIBER IN HIGHWAY OPERATIONS IMS COMMUNICATION PULL BOX. THE BUSWAY ITS SLACK FIBER OPTIC CABLE TO BE COILED IN THE HIGHWAY OPERATIONS IMS PULL BOX SHALL BE LABELED "BUSWAY ITS" WITH A PLASTIC MARKER TIE-WRAPPED TO THE SLACK CABLE. THE CONTRACTOR SHALL CONTACT MR. JOHN KORTE OF HIGHWAY OPERATIONS AT LEAST ONE (1) WEEK PRIOR TO THE INSTALLATION OF THE BUSWAY ITS FIBER OPTIC CABLE IN THE HIGHWAY OPERATIONS IMS CONDUIT.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING HIGHWAY OPERATIONS IMS PULL BOX
- EXISTING HIGHWAY OPERATIONS JUNCTION BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET
- HIGHWAY OPERATIONS IMS 4" MULTIDUCT CONDUIT TYPICAL INNERDUCT DETAIL

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..ITS-53.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: HARTFORD

DRAWING TITLE: COMMUNICATION CORRIDOR PLAN

PROJECT NO. 088-179
DRAWING NO. ITS-53
SHEET NO. 01.05.053

Border Version: 10/19/07

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INNERDUCT	EXISTING CONDUCTOR	INSTALL CONDUCTOR	REMARK
5	2" RMC (BUSWAY ITS)		NONE	1-48SMFO	DISTRIBUTION FIBER (BUSWAY ITS)

* EXISTING CONDUIT INSTALLED BY STATE PROJECT NO. 063-670

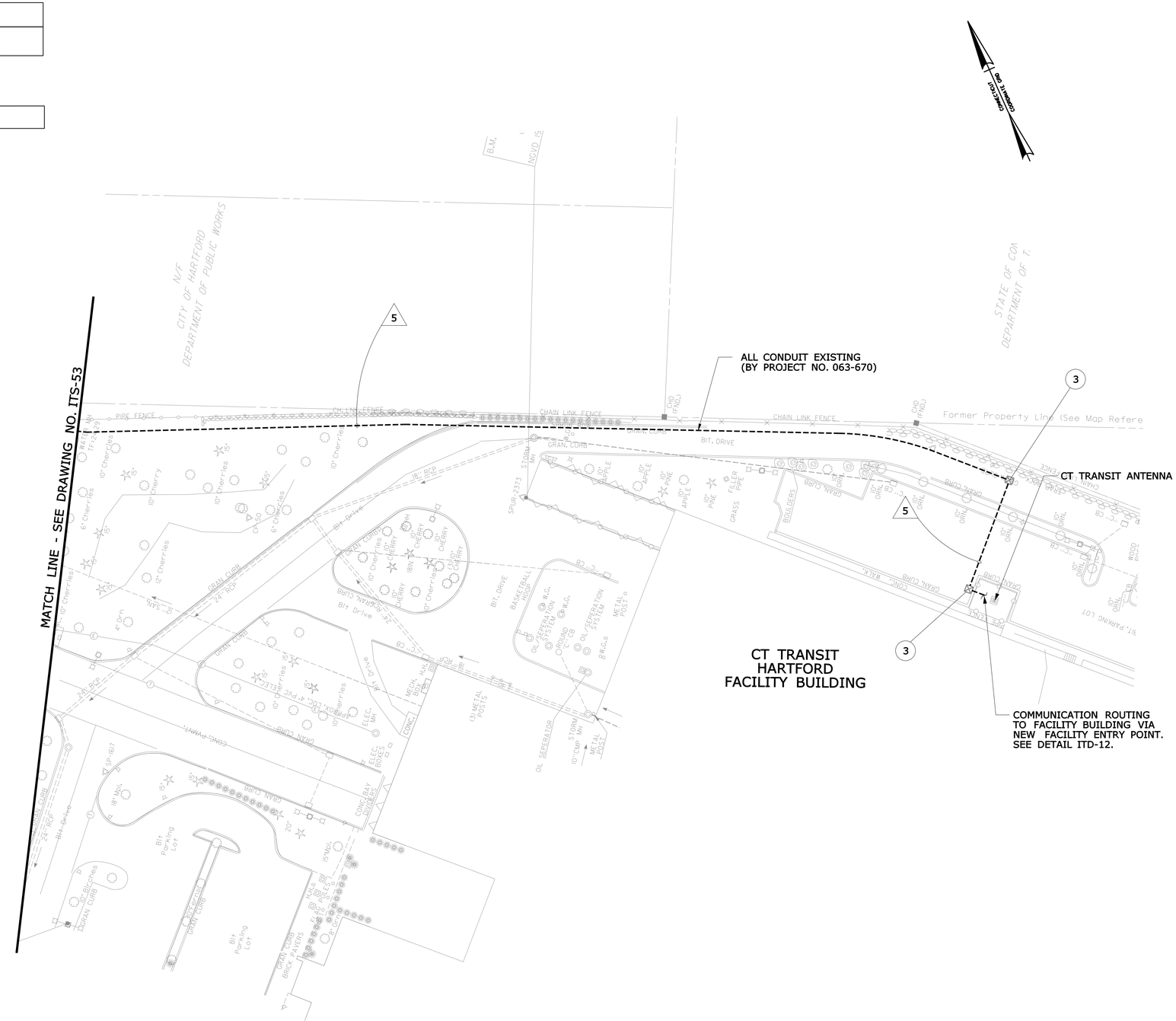
CONSTRUCTION NOTES *

3. COIL 50 FEET OF DISTRIBUTION FIBER IN COMMUNICATION PULL BOX. SEE FIBER STORAGE DETAIL ITD-25.

* CONSTRUCTION NOTE NUMBERS ARE NOT CONSECUTIVE

LEGEND

- EXISTING BUSWAY COMMUNICATION VAULT
- EXISTING BUSWAY COMMUNICATION PULL BOX
- EXISTING CONDUIT
- PROPOSED CAMERA
- EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: **LM/SM**

CHECKED BY: **CHP**

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..ITS-54.dgn

IBI GROUP

IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA

tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:

CT*fastrak*

ITS & COMMUNICATIONS SYSTEMS

TOWN: **HARTFORD**

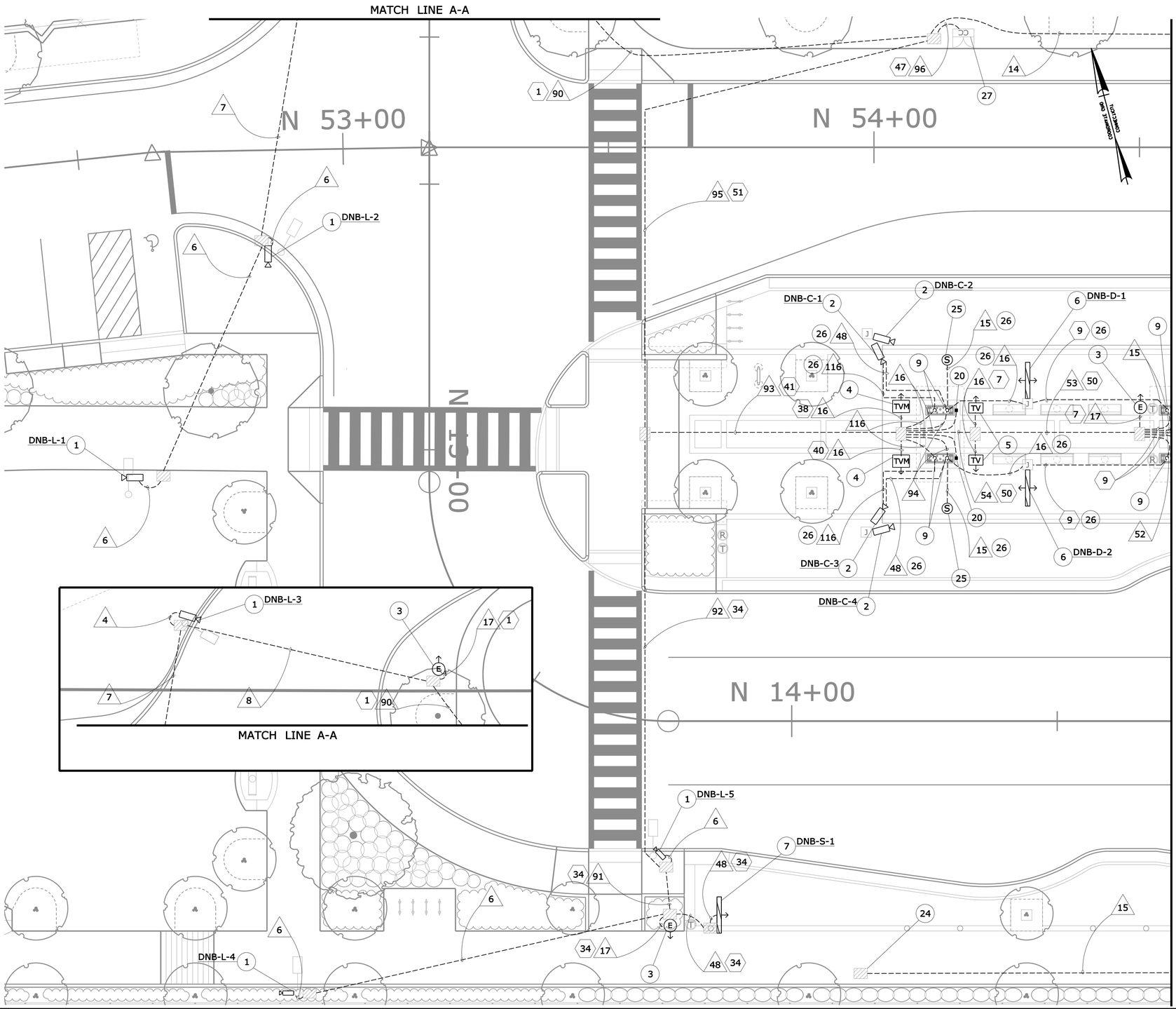
DRAWING TITLE: **COMMUNICATION CORRIDOR PLAN**

PROJECT NO. **088-179**

DRAWING NO. **ITS-54**

SHEET NO. **01.05.054**

Border Version: 10/19/07



CONSTRUCTION NOTES *

1. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES ON EXISTING LIGHT POLE PER ITS DETAIL ITD-15.

2. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES UNDER PLATFORM CANOPY PER ITS DETAIL ITD-17.

3. FURNISH AND INSTALL EMERGENCY CALL BOX WITH UPS PER ITS DETAIL ITD-20.

4. FURNISH AND INSTALL TICKET VENDING MACHINE WITH SHELTER, UNLESS LOCATED UNDER CANOPY, PER ITS DETAIL ITD-21.

5. FURNISH AND INSTALL TICKET VALIDATOR PER ITS DETAIL ITD-21.

6. FURNISH AND INSTALL DOUBLE-SIDED VARIABLE MESSAGE SIGN WITH SPEAKER ON PLATFORM CANOPY PER ITS DETAIL ITD-17.

7. FURNISH AND INSTALL SINGLE-SIDED VARIABLE MESSAGE SIGN WITH SPEAKER AND ACTUATION DEVICE ON POLE PER ITS DETAIL ITD-16.

9. ROUTE CABLING FROM UNDERGROUND CONDUIT TO CANOPY CONDUIT PER ITS DETAIL ITD-18.

20. FURNISH AND INSTALL ACTUATION DEVICE ON THE STATION PIER PER ITS DETAIL ITD-18.

24. TERMINATE AND COIL 100' OF SPEAKER WIRE IN EXISTING HANDHOLE FOR CONNECTION TO FUTURE SPEAKERS.

25. FURNISH AND INSTALL PA SYSTEM SPEAKERS ON VAULTED ARCH CANOPY PER ITS DETAIL ITD-18 AND ITD-20.

26. EXISTING CONDUIT LOCATED IN CANOPY. SEE ITS DETAIL ITD-18 AND ITD-26 FOR EQUIPMENT LOCATION AND CABLE ROUTING.

27. FURNISH AND INSTALL NEW FIBER PATCH PANEL, GIGABIT ETHERNET SWITCHES, AND OTHER ASSOCIATED EQUIPMENT IN EXISTING COMMUNICATIONS CABINET. TERMINATE 12 SMFO CABLE USING BUFFER TUBE FAN-OUT KIT ON FIBER PATCH PANEL. SEE ITS DETAILS ITD-04 TO ITD-07 AND ITD-22 FOR EQUIPMENT LAYOUT AND CABLING.

* CONSTRUCTION NOTES ARE NOT CONSECUTIVE

MATCH LINE - SEE DRAWING NO. STA-02

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT*	INSTALL CONDUCTORS
4	1" RGS	1-CAT6, 1-#14(CCTV)
6	1" RGS	1-CAT6, 1-#12(CCTV)
7	2" RGS	2-CAT6, 2-#12(CCTV)
8	2" RGS	3-CAT6, 2-#12(CCTV), 1-#14(CCTV)
14	2" RGS	1-12 SMFO
15	1" RGS	1-#18(SP)
16	1" RGS	1-CAT6
17	1" RGS	2-CAT6, 1-CAT3
48	1" RGS	2-CAT6
52	1" RGS	4-#18(SP)
53	1" RGS	2-CAT6, 1-CAT3, 2-#18(SP)
54	2" RGS	4-CAT6,1-CAT3,2-#18(SP)
90	2" RGS	5-CAT6, 1-CAT3, 2-#12(CCTV), 1-#14(CCTV)
91	2" RGS	5-CAT6, 1-CAT3, 1-#12(CCTV)
92	2" RGS	6-CAT6, 1-CAT3, 2-#12(CCTV)
93	2" RGS	8-CAT6, 4-#14(CCTV)
	2" RGS	6-CAT6, 1-CAT3
94	1" RGS	3-CAT6, 1-#18(SP)
95	2" RGS	8-CAT6, 4-#14(CCTV)
	2" RGS	6-CAT6, 1-CAT3
	2" RGS	6-CAT6, 1-CAT3, 2-#12(CCTV)
96	2" RGS	1-12 SMFO
	4" RGS	8-CAT6, 4-#14(CCTV)
	4" RGS	10-CAT6, 3-CAT3
	4" RGS	7-CAT6, 4-#12(CCTV), 1-#14(CCTV)
	3" RGS	SPARE
116	1" RGS	2-#14(CCTV)

* EXISTING CONDUIT BY PROJECT NO. 088-177

ELECTRICAL NOTE SCHEDULE

RUN#	EXISTING CONDUIT*	INSTALL CONDUCTORS
1	1" RGS	2-#12(1), 1-#12(G)
7	1" RGS	2-#10(3), 1-#10(G)
9	1" RGS	2-#10(4), 1-#10(G)
34	1" RGS	2-#12(2), 1-#12(G)
38	1" RGS	2-#6(6), 1-#6(G)
40	1" RGS	2-#6(5), 1-#6(G)
41	2" RGS	2-#6(5), 1-#6(G)
		2-#6(6), 1-#6(G)
	2" RGS	2-#10(3), 1-#10(G)
		2-#10(4), 1-#10(G)
47	2" RGS	2-#6(5), 1-#6(G)
		2-#6(6), 1-#6(G)
	2" RGS	2-#10(3), 1-#10(G)
		2-#10(4), 1-#10(G)
	2" RGS	2-#12(2), 1-#12(G)
		2-#12(1), 1-#12(G)
50	1" RGS	2-#10(4), 1-#10(G)
		2-#10(3), 1-#10(G)
51	2" RGS	2-#6(5), 1-#6(G)
		2-#6(6), 1-#6(G)
	2" RGS	2-#10(3), 1-#10(G)
		2-#10(4), 1-#10(G)
	2" RGS	2-#12(2), 1-#12(G)

* EXISTING CONDUIT BY PROJECT NO. 088-177

CIRCUIT TABLE

CCT	BKR	LOAD	DEVICES
(1)	20A	125W	ECB
(2)	20A	369W	ECB, VMS
(3)	20A	325W	ECB, TV
(4)	20A	488W	VMS
(5)	25A	2000W	TVM
(6)	25A	2000W	TVM

CAMERA MOUNTING HEIGHT

CAMERA NAME	MOUNTING HEIGHT (FT)
DNB-L-1	10
DNB-L-2	14
DNB-L-3	14
DNB-L-4	10
DNB-L-5	14
DNB-C-1	CANOPY
DNB-C-2	CANOPY
DNB-C-3	CANOPY
DNB-C-4	CANOPY

GENERAL NOTE

1. THE CONTRACTOR SHALL CONFIRM ALL POWER WIRE SIZING AND CIRCUITS ONCE ITS EQUIPMENT HAS BEEN SELECTED.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 10 20
SCALE 1"=10'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..STA-01.dgn

SIGNATURE/BLOCK:
IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

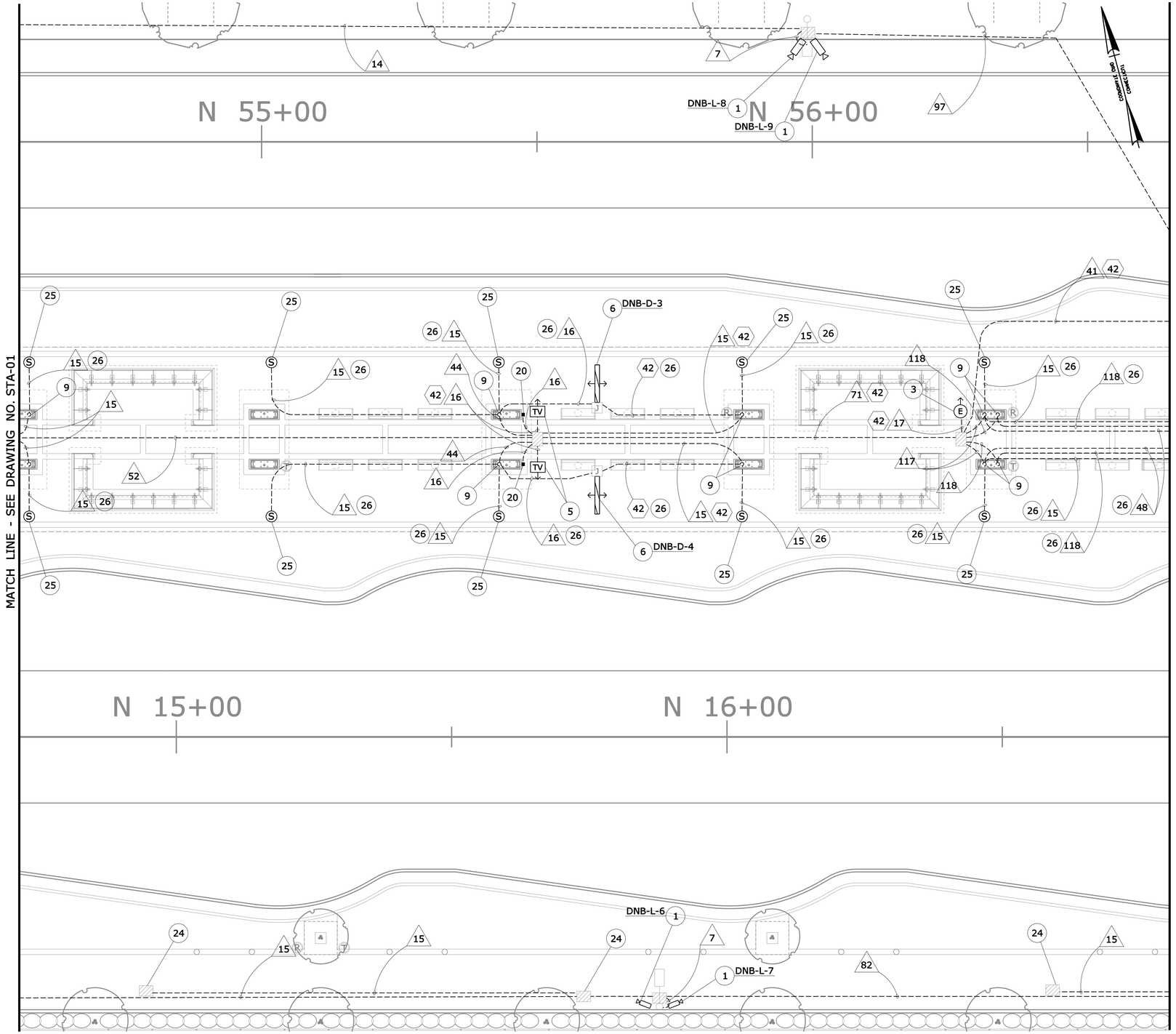
PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN

DRAWING TITLE: DOWNTOWN NEW BRITAIN STATION

PROJECT NO. 088-179
DRAWING NO. STA-01
SHEET NO. 01.06.001

Border Version: 11/14/08



CONSTRUCTION NOTES *

1. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES ON EXISTING LIGHT POLE PER ITS DETAIL ITD-15.

3. FURNISH AND INSTALL EMERGENCY CALL BOX WITH UPS PER ITS DETAIL ITD-20.

5. FURNISH AND INSTALL TICKET VALIDATOR PER ITS DETAIL ITD-21.

6. FURNISH AND INSTALL DOUBLE-SIDED VARIABLE MESSAGE SIGN WITH SPEAKER ON PLATFORM CANOPY PER ITS DETAIL ITD-17.

9. ROUTE CABLING FROM UNDERGROUND CONDUIT TO CANOPY CONDUIT PER ITS DETAIL ITD-18.

20. FURNISH AND INSTALL ACTUATION DEVICE ON THE STATION PIER PER ITS DETAIL ITD-18.

24. TERMINATE AND COIL 100' OF SPEAKER WIRE IN EXISTING HANDHOLE FOR CONNECTION TO FUTURE SPEAKERS.

25. FURNISH AND INSTALL PA SYSTEM SPEAKERS ON VAULTED ARCH CANOPY PER ITS DETAIL ITD-18 AND ITD-20.

26. EXISTING CONDUIT LOCATED IN CANOPY. SEE ITS DETAIL ITD-18 AND ITD-26 FOR EQUIPMENT LOCATION AND CABLE ROUTING.

* CONSTRUCTION NOTES ARE NOT CONSECUTIVE

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT*	INSTALL CONDUCTORS
7	2" RGS	2-CAT6, 2-#12(CCTV)
14	2" RGS	1-12 SMFO
15	1" RGS	1-#18(SP)
16	1" RGS	1-CAT6
17	1" RGS	2-CAT6, 1-CAT3
41	2" RGS	8-CAT6, 4-#12(CCTV)
	2" RGS	4-CAT6, 1-CAT3, 14-#18(SP)
44	1" RGS	1-CAT6, 2-#18(SP)
48	1" RGS	2-CAT6
52	1" RGS	4-#18(SP)
71	2" RGS	6-CAT6, 10-#18(SP)
82	2" RGS	2-CAT6, 2-#12(CCTV), 3-#18(SP)
97	2" RGS	1-12 SMFO
	2" RGS	2-CAT6, 2-#12(CCTV)
117	1" RGS	2-CAT6, 2-#18(SP)
118	1" RGS	2-#12(CCTV)

* EXISTING CONDUIT BY PROJECT NO. 088-177

ELECTRICAL NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INSTALL CONDUCTORS
42	1" RGS	2-#8(6), 1-#8(G)

* EXISTING CONDUIT BY PROJECT NO. 088-177

CIRCUIT TABLE

CCT	BKR	LOAD	DEVICES
(1)	20A	125W	ECB
(2)	20A	369W	ECB, VMS
(3)	20A	200W	TV
(4)	25A	2000W	TVM
(5)	25A	2000W	TVM
(6)	20A	813W	VMS, ECB, TV

CAMERA MOUNTING HEIGHT

CAMERA NAME	MOUNTING HEIGHT (FT)
DNB-L-6	12
DNB-L-7	13
DNB-L-8	14
DNB-L-9	15

GENERAL NOTE

1. THE CONTRACTOR SHALL CONFIRM ALL POWER WIRE SIZING AND CIRCUITS ONCE ITS EQUIPMENT HAS BEEN SELECTED.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 10 20
SCALE 1"=10'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..STA-02.dgn

SIGNATURE/BLOCK:
IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

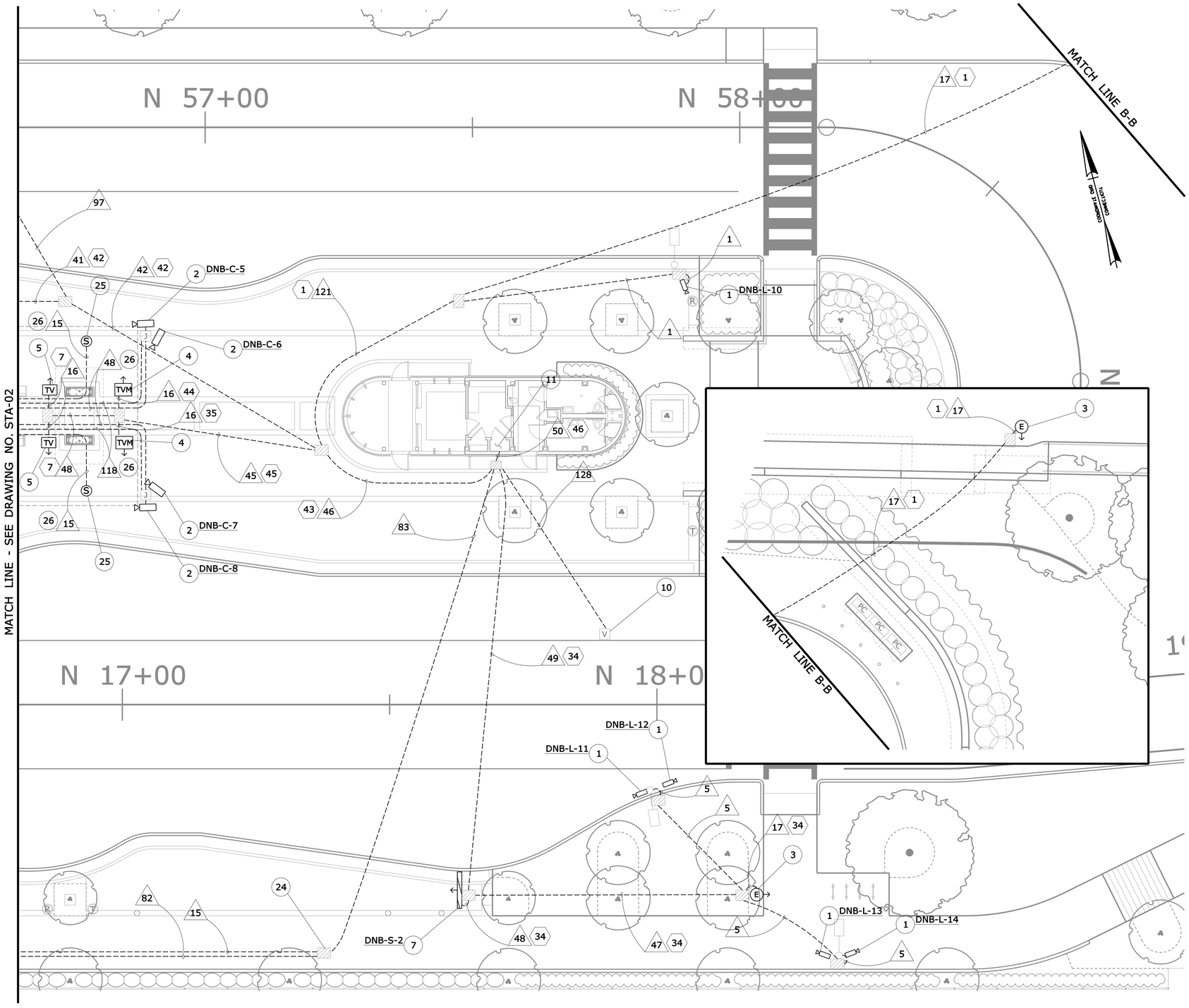
PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN

DRAWING TITLE: DOWNTOWN NEW BRITAIN STATION

PROJECT NO. 088-179
DRAWING NO. STA-02
SHEET NO. 01.06.002

Border Version: 11/14/08



CONSTRUCTION NOTES *

1. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES ON EXISTING LIGHT POLE PER ITS DETAIL ITD-15.

2. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES UNDER PLATFORM CANOPY PER ITS DETAIL ITD-17.

3. FURNISH AND INSTALL EMERGENCY CALL BOX WITH UPS PER ITS DETAIL ITD-20.

4. FURNISH AND INSTALL TICKET VENDING MACHINE WITH SHELTER, UNLESS LOCATED UNDER CANOPY, PER ITS DETAIL ITD-21.

5. FURNISH AND INSTALL TICKET VALIDATOR PER ITS DETAIL ITD-21.

7. FURNISH AND INSTALL SINGLE-SIDED VARIABLE MESSAGE SIGN WITH SPEAKER AND ACTUATION DEVICE ON POLE PER ITS DETAIL ITD-16.

10. SEE CORRIDOR COMMUNICATION PLAN ITS-01 FOR DROP FIBER CONNECTION TO DISTRIBUTION FIBER.

11. FURNISH AND INSTALL NEW FIBER PATCH PANEL, GIGABIT ETHERNET SWITCHES, PA AMPLIFIER, TIS CONTROLLER, AND OTHER ASSOCIATED EQUIPMENT IN COMMUNICATION ROOM. TERMINATE 48 SMFO CABLE USING BUFFER TUBE FAN-OUT KIT ON RACK MOUNTED FIBER PATCH PANEL. INSTALL SPARE WORKSTATION AND WORKSTATION MONITORS. SEE ITS DETAILS ITD-04 TO ITD-07 AND ITD-22 FOR EQUIPMENT LAYOUT AND CABLING.

24. TERMINATE AND COIL 100' OF SPEAKER WIRE IN EXISTING HANDHOLE FOR CONNECTION TO FUTURE SPEAKERS.

25. FURNISH AND INSTALL PA SYSTEM SPEAKERS ON VAULTED ARCH CANOPY PER ITS DETAIL ITD-18 AND ITD-20.

26. EXISTING CONDUIT LOCATED IN CANOPY. SEE ITS DETAIL ITD-18 AND ITD-26 FOR EQUIPMENT LOCATION AND CABLE ROUTING.

* CONSTRUCTION NOTES ARE NOT CONSECUTIVE

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT*	INSTALL CONDUCTORS
1	1" RGS	1-CAT6, 1-#16(CCTV)
5	2" RGS	2-CAT6, 2-#14(CCTV)
15	1" RGS	1-#18(SP)
16	1" RGS	1-CAT6
17	1" RGS	2-CAT6, 1-CAT3
41	2" RGS	8-CAT6, 4-#12(CCTV)
	2" RGS	4-CAT6, 1-CAT3, 14-#18(SP)
42	2" RGS	1-12 SMFO
	2" RGS	8-CAT6, 4-#12(CCTV)
	2" RGS	4-CAT6, 1-CAT3 4#18(SP)
45	1" RGS	4-CAT6
46	2" RGS	1-12 SMFO
	3" RGS	7-CAT6, 6-#12(CCTV), 1-#16(CCTV)
	3" RGS	6-CAT6, 1-CAT3
	3" RGS	8-CAT6, 1-CAT3, 14-#18(SP)
47	2" RGS	6-CAT6, 1-CAT3, 4-#14(CCTV)
48	1" RGS	2-CAT6
49	2" RGS	8-CAT6, 1-CAT3, 4-#14(CCTV)
50	1" RGS	2-12 SMFO
	4" RGS	7-CAT6,6-#12(CCTV),1-#16(CCTV)
	4" RGS	6-CAT6, 1-CAT3
	4" RGS	8-CAT6, 1-CAT3, 14-#18(SP)
	4" RGS	10-CAT6, 1-CAT3, 2-#12(CCTV), 4-#14(CCTV), 5-#18(SP)
	3" RGS	SPARE
82	2" RGS	2-CAT6, 2-#12(CCTV), 3-#18(SP)
83	2" RGS	2-CAT6, 2-#12(CCTV), 5-#18(SP)
97	2" RGS	1-12 SMFO
	2" RGS	2-CAT6, 2-#12(CCTV)
118	1" RGS	2-#12(CCTV)
121	2" RGS	3-CAT6, 1-CAT3, 1-#16(CCTV)
128	2" RGS	1-48SMFO

* EXISTING CONDUIT BY PROJECT NO. 088-177

ELECTRICAL NOTE SCHEDULE

RUN#	EXISTING CONDUIT*	INSTALL CONDUCTORS
1	1" RGS	2-#12(1), 1-#12(G)
7	1" RGS	2-#10(3), 1-#10(G)
34	1" RGS	2-#12(2), 1-#12(G)
35	1" RGS	2-#8(4), 1-#8(G)
42	1" RGS	2-#8(6), 1-#8(G)
43	2" RGS	2-#8(4), 1-#8(G)
		2-#8(5), 1-#8(G)
	2" RGS	2-#10(3), 1-#10(G)
		2-#8(6), 1-#8(G)
	1" RGS	2-#12(1), 1-#12(G)
44	1" RGS	2-#8(5), 1-#8(G)
45	2" RGS	2-#8(4), 1-#8(G)
		2-#8(5), 1-#8(G)
	1" RGS	2-#10(3), 1-#10(G)
46	2" RGS	2-#8(4), 1-#8(G)
		2-#8(5), 1-#8(G)
	2" RGS	2-#10(3), 1-#10(G)
		2-#8(6), 1-#8(G)
	2" RGS	2-#12(2), 1-#12(G)
		2-#12(1), 1-#12(G)

* EXISTING CONDUIT BY PROJECT NO. 088-177

CAMERA MOUNTING HEIGHT

CAMERA NAME	MOUNTING HEIGHT (FT)
DNB-C-5	CANOPY
DNB-C-6	CANOPY
DNB-C-7	CANOPY
DNB-C-8	CANOPY
DNB-L-10	10
DNB-L-11	12
DNB-L-12	13
DNB-L-13	12
DNB-L-14	13

CIRCUIT TABLE

CCT	BKR	LOAD	DEVICES
(1)	20A	125W	ECB
(2)	20A	369W	ECB, VMS
(3)	20A	200W	TV
(4)	25A	2000W	TVM
(5)	25A	2000W	TVM
(6)	20A	813W	VMS, ECB, TV

GENERAL NOTE

1. THE CONTRACTOR SHALL CONFIRM ALL POWER WIRE SIZING AND CIRCUITS ONCE ITS EQUIPMENT HAS BEEN SELECTED.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 10 20
SCALE 1"=10'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..STA-03.dgn

SIGNATURE/BLOCK:
IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN

DRAWING TITLE: DOWNTOWN NEW BRITAIN STATION

PROJECT NO. 088-179
DRAWING NO. STA-03
SHEET NO. 01.06.003

Border Version: 11/14/08

GENERAL NOTE

1. THE CONTRACTOR SHALL CONFIRM ALL POWER WIRE SIZING AND CIRCUITS ONCE ITS EQUIPMENT HAS BEEN SELECTED.

CAMERA MOUNTING HEIGHT

CAMERA NAME	MOUNTING HEIGHT (FT)
EMS-V-1	PYLON
EMS-V-2	VMS POLE
EMS-L-1	10
EMS-L-2	10
EMS-L-3	11
EMS-L-4	14
EMS-L-5	14

CONSTRUCTION NOTES *

1. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES ON EXISTING LIGHT POLE PER ITS DETAIL ITD-15.

3. FURNISH AND INSTALL EMERGENCY CALL BOX WITH UPS PER ITS DETAIL ITD-20.

4. FURNISH AND INSTALL TICKET VENDING MACHINE WITH SHELTER, UNLESS LOCATED UNDER CANOPY, PER ITS DETAIL ITD-21.

5. FURNISH AND INSTALL TICKET VALIDATOR PER ITS DETAIL ITD-21.

7. FURNISH AND INSTALL SINGLE-SIDED VARIABLE MESSAGE SIGN WITH SPEAKER AND ACTUATION DEVICE ON POLE PER ITS DETAIL ITD-16.

8. FURNISH AND INSTALL PA SYSTEM SPEAKERS ON PLATFORM CANOPY PER ITS DETAILS ITD-18 AND 20.

9. ROUTE CABLING FROM UNDERGROUND CONDUIT TO CANOPY CONDUIT PER ITS DETAIL ITD-18.

10. SEE CORRIDOR COMMUNICATION PLAN ITS-05 FOR DROP FIBER CONNECTION TO DISTRIBUTION FIBER.

12. FURNISH AND INSTALL NEW FIBER PATCH PANEL, GIGABIT ETHERNET SWITCHES, TIS CONTROLLER, PA AMPLIFIER AND OTHER ASSOCIATED EQUIPMENT IN EXISTING COMMUNICATIONS CABINET. TERMINATE 12 SMFO CABLE USING BUFFER TUBE FAN-OUT KIT ON FIBER PATCH PANEL. SEE ITS DETAILS ITD-04 TO ITD-07 AND ITD-22 FOR EQUIPMENT LAYOUT AND CABLING.

13. EXISTING CONDUIT LOCATED IN CANOPY. SEE ITS DETAIL ITD-18 FOR CABLE ROUTING.

14. EXISTING CONDUIT AND CABLING BY PROJECT NO. 088-178 BETWEEN POWER CABINET AND COMMUNICATIONS CABINET.

15. LOCATION OF PROPOSED FUTURE TVM.

18. FURNISH AND INSTALL NEW SINGLE-SIDED VARIABLE MESSAGE SIGN WITH SPEAKER AND ACTUATION DEVICE ON EXISTING PYLON PER ITS DETAIL ITD-19.

21. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES ON EXISTING PYLON PER ITS DETAIL ITD-19.

22. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES ON VMS POLE PER ITS DETAIL ITD-16.

* CONSTRUCTION NOTES ARE NOT CONSECUTIVE

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT*	INSTALL CONDUCTORS
1	1" RGS	1-CAT6, 1-#16(CCTV)
4	1" RGS	1-CAT6, 1-#14(CCTV)
5	2" RGS	2-CAT6, 2-#14(CCTV)
11	1" RGS	3-CAT6, 1-#16(CCTV)
12	2" RGS	3-CAT6, 1-#14(CCTV)
14	2" RGS	1-12 SMFO
15	1" RGS	1-#18(SP)
16	1" RGS	1-CAT6
17	1" RGS	2-CAT6, 1-CAT3
18	2" RGS	5-CAT6, 3-#14(CCTV)
19	2" RGS	5-CAT6, 5-#14(CCTV)
	1" RGS	3-CAT6
20	2" RGS	5-CAT6, 5-#14(CCTV)
	2" RGS	6-CAT6, 1-CAT3
21	2" RGS	1-12 SMFO
	4" RGS	7-CAT6, 5-#14(CCTV), 2-#16(CCTV)
	4" RGS	8-CAT6, 1-CAT3, 1-#18(SP)
	3" RGS	SPARE
85	1" RGS	SPARE FOR FUTURE TVM

* EXISTING CONDUIT BY PROJECT NO. 088-177

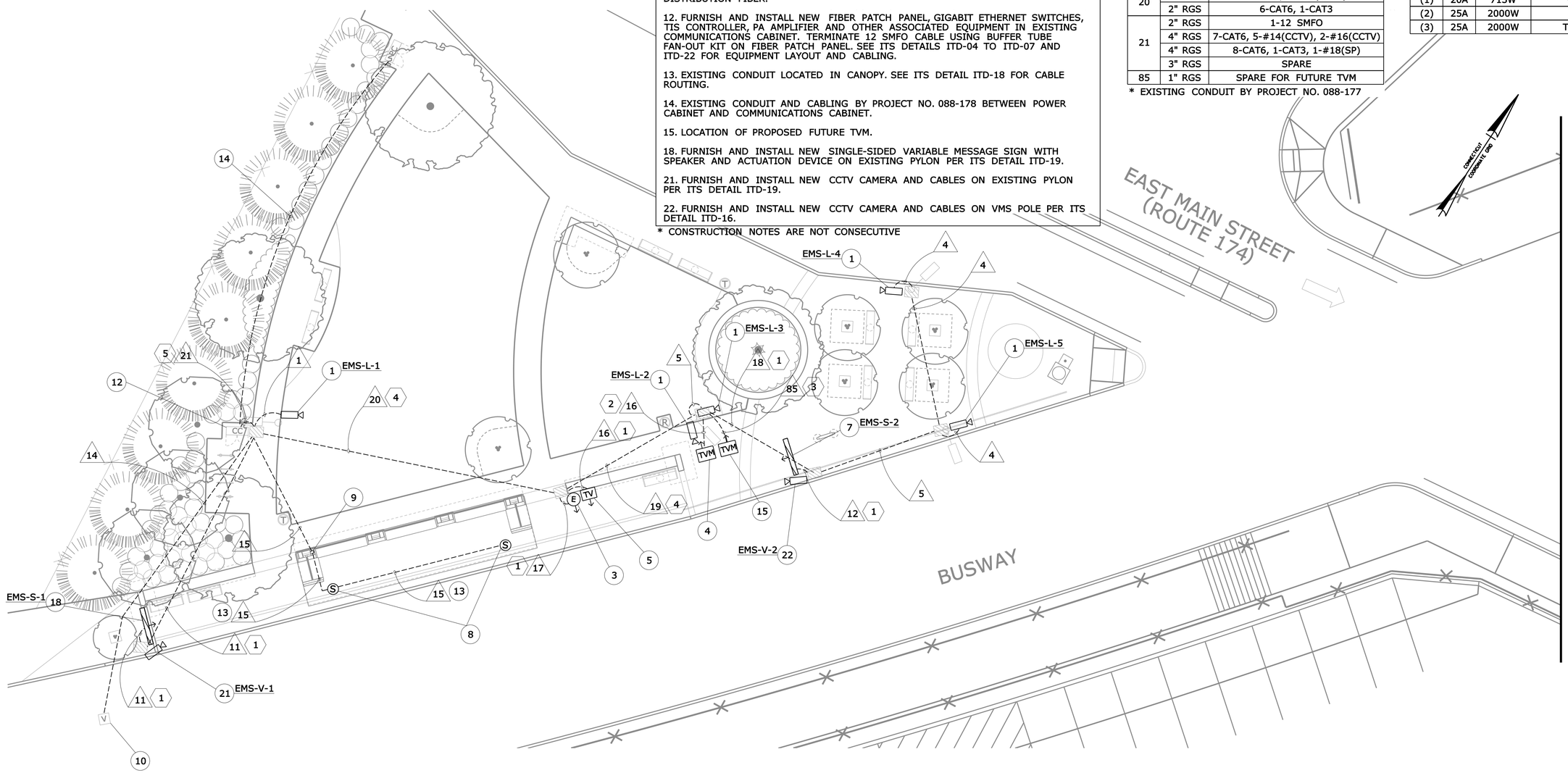
ELECTRICAL NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INSTALL CONDUCTORS
1	1" RGS	2-#12(1), 1-#12(G)
2	1" RGS	2-#8(2), 1-#8(G)
3	1" RGS	SPARE
4	2" RGS	2-#12(1), 1-#12(G)
		2-#8(2), 1-#8(G)
5	2" RGS	2-#12(1), 1-#12(G)
	2" RGS	2-#12(1), 1-#12(G)
		2-#8(2), 1-#8(G)

* EXISTING CONDUIT BY PROJECT NO. 088-177

CIRCUIT TABLE

CCT	BKR	LOAD	DEVICES
(1)	20A	713W	VMS, ECB, TV
(2)	25A	2000W	TVM
(3)	25A	2000W	TVM (FUTURE)



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 10 20
SCALE 1"=10'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_PLN_088_179_STA-04.dgn

SIGNATURE/BLOCK:
IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

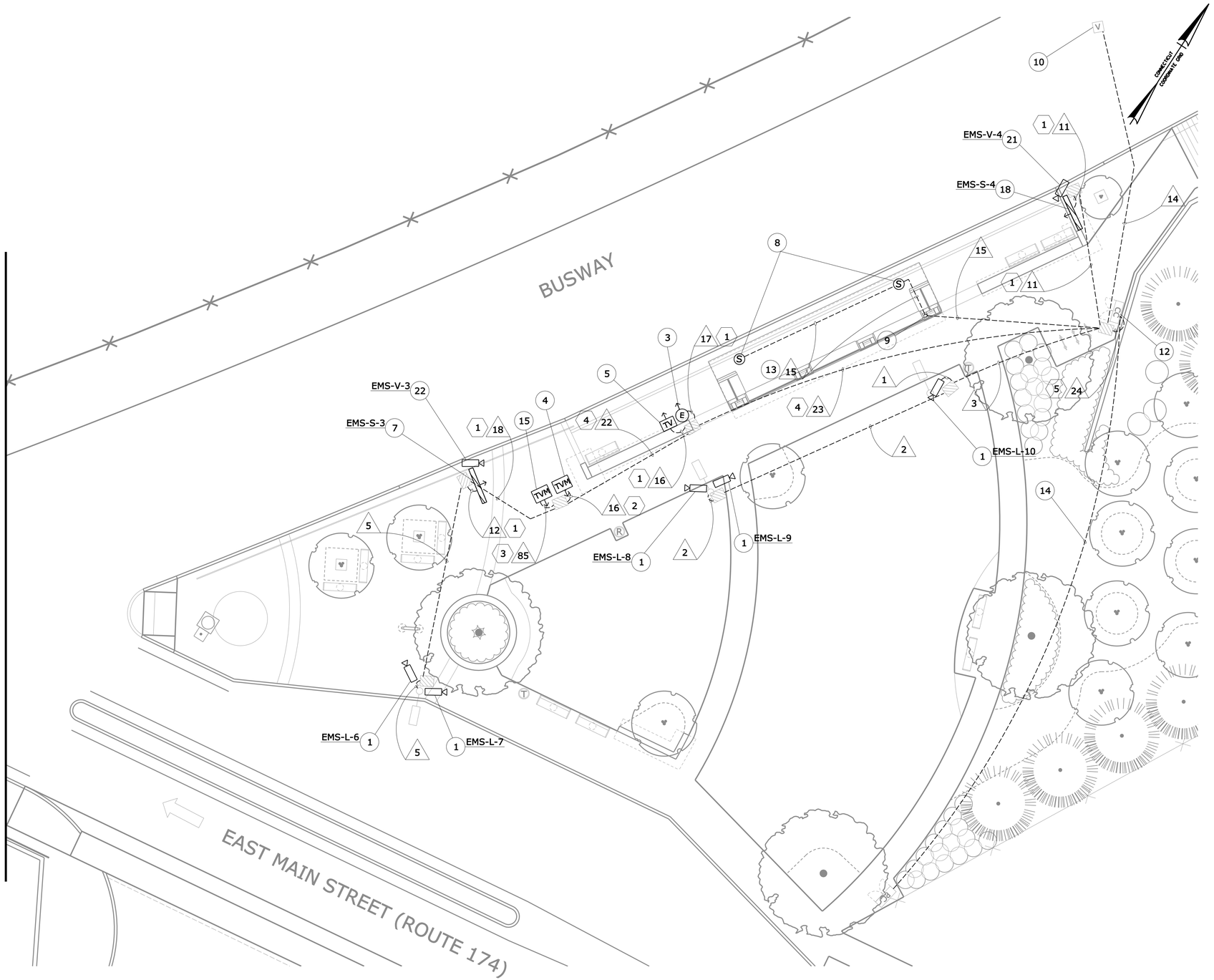
PROJECT TITLE:
CT*fastrak*
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN

DRAWING TITLE: E MAIN STREET STATION

PROJECT NO. 088-179
DRAWING NO. STA-04
SHEET NO. 01.06.004

Border Version: 11/14/08



CONSTRUCTION NOTES *

1. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES ON EXISTING LIGHT POLE PER ITS DETAIL ITD-15.

3. FURNISH AND INSTALL EMERGENCY CALL BOX WITH UPS PER ITS DETAIL ITD-20.

4. FURNISH AND INSTALL TICKET VENDING MACHINE WITH SHELTER, UNLESS LOCATED UNDER CANOPY, PER ITS DETAIL ITD-21.

5. FURNISH AND INSTALL TICKET VALIDATOR PER ITS DETAIL ITD-21.

7. FURNISH AND INSTALL SINGLE-SIDED VARIABLE MESSAGE SIGN WITH SPEAKER AND ACTUATION DEVICE ON POLE PER ITS DETAIL ITD-16.

8. FURNISH AND INSTALL PA SYSTEM SPEAKERS ON PLATFORM CANOPY PER ITS DETAILS ITD-18 AND 20.

9. ROUTE CABLING FROM UNDERGROUND CONDUIT TO CANOPY CONDUIT PER ITS DETAIL ITD-18.

10. SEE CORRIDOR COMMUNICATION PLAN ITS-06 FOR DROP FIBER CONNECTION TO DISTRIBUTION FIBER.

12. FURNISH AND INSTALL NEW FIBER PATCH PANEL, GIGABIT ETHERNET SWITCHES, TIS CONTROLLER, PA AMPLIFIER AND OTHER ASSOCIATED EQUIPMENT IN EXISTING COMMUNICATIONS CABINET. TERMINATE 12 SMFO CABLE USING BUFFER TUBE FAN-OUT KIT ON FIBER PATCH PANEL. SEE ITS DETAILS ITD-04 TO ITD-07 AND ITD-22 FOR EQUIPMENT LAYOUT AND CABLING.

13. EXISTING CONDUIT LOCATED IN CANOPY. SEE ITS DETAIL ITD-18 FOR CABLE ROUTING.

14. EXISTING CONDUIT AND CABLING BY PROJECT NO. 088-178 BETWEEN POWER CABINET AND COMMUNICATIONS CABINET.

15. LOCATION OF PROPOSED FUTURE TVM.

18. FURNISH AND INSTALL NEW SINGLE-SIDED VARIABLE MESSAGE SIGN WITH SPEAKER AND ACTUATION DEVICE ON EXISTING PYLON PER ITS DETAIL ITD-19.

21. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES ON EXISTING PYLON PER ITS DETAIL ITD-19.

22. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES ON VMS POLE PER ITS DETAIL ITD-16.

* CONSTRUCTION NOTES ARE NOT CONSECUTIVE

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT*	INSTALL CONDUCTORS
1	1" RGS	1-CAT6, 1-#16(CCTV)
2	2" RGS	2-CAT6, 2-#16(CCTV)
3	2" RGS	3-CAT6, 3-#16(CCTV)
5	2" RGS	2-CAT6, 2-#14(CCTV)
11	1" RGS	3-CAT6, 1-#16(CCTV)
12	2" RGS	3-CAT6, 1-#14(CCTV)
14	2" RGS	1-12 SMFO
15	1" RGS	1-#18(SP)
16	1" RGS	1-CAT6
17	1" RGS	2-CAT6, 1-CAT3
18	2" RGS	5-CAT6, 3-#14(CCTV)
22	2" RGS	3-CAT6, 3-#14(CCTV)
	1" RGS	3-CAT6
23	2" RGS	3-CAT6, 3-#14(CCTV)
	2" RGS	6-CAT6, 1-CAT3
24	2" RGS	1-12 SMFO
	4" RGS	7-CAT6, 3-#14(CCTV), 4-#16(CCTV)
	4" RGS	8-CAT6, 1-CAT3, 1-#18(SP)
	3" RGS	SPARE
85	1" RGS	SPARE FOR FUTURE TVM

* EXISTING CONDUIT BY PROJECT NO. 088-177

CAMERA MOUNTING HEIGHT

CAMERA NAME	MOUNTING HEIGHT (FT)
EMS-V-3	VMS POLE
EMS-V-4	PYLON
EMS-L-6	10
EMS-L-7	11
EMS-L-8	10
EMS-L-9	11
EMS-L-10	10

CIRCUIT TABLE

CCT	BKR	LOAD	DEVICES
(1)	20A	713W	VMS, ECB, TV
(2)	25A	2000W	TVM
(3)	25A	2000W	TVM (FUTURE)

ELECTRICAL NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INSTALL CONDUCTORS
1	1" RGS	2-#12(1), 1-#12(G)
2	1" RGS	2-#8(2), 1-#8(G)
3	1" RGS	SPARE
4	2" RGS	2-#12(1), 1-#12(G)
		2-#8(2), 1-#8(G)
5	2" RGS	2-#12(1), 1-#12(G)
	2" RGS	2-#12(1), 1-#12(G)
		2-#8(2), 1-#8(G)

* EXISTING CONDUIT BY PROJECT NO. 088-177

GENERAL NOTE

1. THE CONTRACTOR SHALL CONFIRM ALL POWER WIRE SIZING AND CIRCUITS ONCE ITS EQUIPMENT HAS BEEN SELECTED.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 10 20
SCALE 1"=10'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..STA-05.dgn

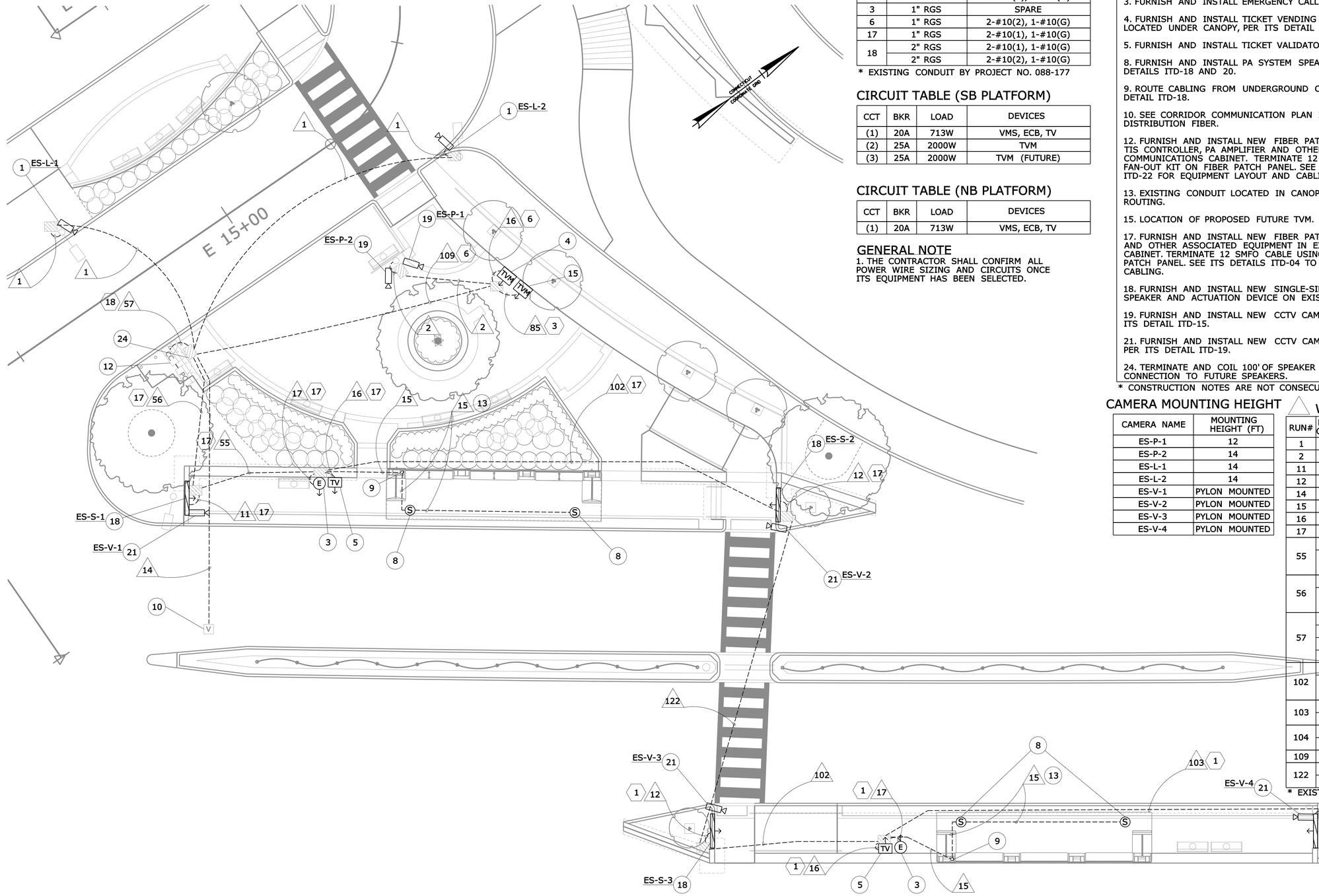
SIGNATURE/BLOCK:
IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN
DRAWING TITLE: E MAIN STREET STATION

PROJECT NO. 088-179
DRAWING NO. STA-05
SHEET NO. 01.06.005

Border Version: 11/14/08



ELECTRICAL NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INSTALL CONDUCTORS
1	1" RGS	2-#12(1), 1-#12(G)
3	1" RGS	SPARE
6	1" RGS	2-#10(2), 1-#10(G)
17	1" RGS	2-#10(1), 1-#10(G)
18	2" RGS	2-#10(1), 1-#10(G)
	2" RGS	2-#10(2), 1-#10(G)

* EXISTING CONDUIT BY PROJECT NO. 088-177

CIRCUIT TABLE (SB PLATFORM)

CCT	BKR	LOAD	DEVICES
(1)	20A	713W	VMS, ECB, TV
(2)	25A	2000W	TVM
(3)	25A	2000W	TVM (FUTURE)

CIRCUIT TABLE (NB PLATFORM)

CCT	BKR	LOAD	DEVICES
(1)	20A	713W	VMS, ECB, TV

GENERAL NOTE

1. THE CONTRACTOR SHALL CONFIRM ALL POWER WIRE SIZING AND CIRCUITS ONCE ITS EQUIPMENT HAS BEEN SELECTED.

CONSTRUCTION NOTES *

1. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES ON EXISTING LIGHT POLE PER ITS DETAIL ITD-15.

3. FURNISH AND INSTALL EMERGENCY CALL BOX WITH UPS PER ITS DETAIL ITD-20.

4. FURNISH AND INSTALL TICKET VENDING MACHINE WITH SHELTER, UNLESS LOCATED UNDER CANOPY, PER ITS DETAIL ITD-21.

5. FURNISH AND INSTALL TICKET VALIDATOR PER ITS DETAIL ITD-21.

8. FURNISH AND INSTALL PA SYSTEM SPEAKERS ON PLATFORM CANOPY PER ITS DETAILS ITD-18 AND 20.

9. ROUTE CABLING FROM UNDERGROUND CONDUIT TO CANOPY CONDUIT PER ITS DETAIL ITD-18.

10. SEE CORRIDOR COMMUNICATION PLAN ITS-11 FOR DROP FIBER CONNECTION TO DISTRIBUTION FIBER.

12. FURNISH AND INSTALL NEW FIBER PATCH PANEL, GIGABIT ETHERNET SWITCHES, TIS CONTROLLER, PA AMPLIFIER AND OTHER ASSOCIATED EQUIPMENT IN EXISTING COMMUNICATIONS CABINET. TERMINATE 12 SMFO CABLE USING BUFFER TUBE FAN-OUT KIT ON FIBER PATCH PANEL. SEE ITS DETAILS ITD-04 TO ITD-07 AND ITD-22 FOR EQUIPMENT LAYOUT AND CABLING.

13. EXISTING CONDUIT LOCATED IN CANOPY. SEE ITS DETAIL ITD-18 FOR CABLE ROUTING.

15. LOCATION OF PROPOSED FUTURE TVM.

17. FURNISH AND INSTALL NEW FIBER PATCH PANEL, GIGABIT ETHERNET SWITCHES AND OTHER ASSOCIATED EQUIPMENT IN EXISTING SECONDARY COMMUNICATIONS CABINET. TERMINATE 12 SMFO CABLE USING BUFFER TUBE FAN-OUT KIT ON FIBER PATCH PANEL. SEE ITS DETAILS ITD-04 TO ITD-07 FOR EQUIPMENT LAYOUT AND CABLING.

18. FURNISH AND INSTALL NEW SINGLE-SIDED VARIABLE MESSAGE SIGN WITH SPEAKER AND ACTUATION DEVICE ON EXISTING PYLON PER ITS DETAIL ITD-19.

19. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES ON EXISTING POLE PER ITS DETAIL ITD-15.

21. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES ON EXISTING PYLON PER ITS DETAIL ITD-19.

24. TERMINATE AND COIL 100' OF SPEAKER WIRE IN EXISTING HANDHOLE FOR CONNECTION TO FUTURE SPEAKERS.

* CONSTRUCTION NOTES ARE NOT CONSECUTIVE

CAMERA MOUNTING HEIGHT

CAMERA NAME	MOUNTING HEIGHT (FT)
ES-P-1	12
ES-P-2	14
ES-L-1	14
ES-L-2	14
ES-V-1	PYLON MOUNTED
ES-V-2	PYLON MOUNTED
ES-V-3	PYLON MOUNTED
ES-V-4	PYLON MOUNTED

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT*	INSTALL CONDUCTORS
1	1" RGS	1-CAT6, 1-#16(CCTV)
2	2" RGS	2-CAT6, 2-#16(CCTV)
11	1" RGS	3-CAT6, 1-#16(CCTV)
12	2" RGS	3-CAT6, 1-#14(CCTV)
14	2" RGS	1-12 SMFO
15	1" RGS	1-#18(SP)
16	1" RGS	1-CAT6
17	1" RGS	2-CAT6, 1-CAT3
55	2" RGS	1-12 SMFO
	2" RGS	6-CAT6, 2-CAT3, 1-#14(CCTV), 2-#18(SP)
56	2" RGS	1-12 SMFO
	2" RGS	9-CAT6, 2-CAT3, 1-#14(CCTV), 1-#16(CCTV), 2-#18(SP)
57	2" RGS	2-12 SMFO
	4" RGS	9-CAT6, 1-#14(CCTV), 5-#16(CCTV)
	4" RGS	5-CAT6, 2-CAT3, 3-#18(SP)
	3" RGS	SPARE
102	2" RGS	1-12 SMFO
	2" RGS	3-CAT6, 1-CAT3, 1-#14(CCTV), 1-#18(SP)
103	2" RGS	1-12 SMFO
	2" RGS	6-CAT6, 1-#14(CCTV)
104	2" RGS	1-12 SMFO
	2" RGS	9-CAT6, 1-#14(CCTV), 1-#16(CCTV)
109	2" RGS	3-CAT6, 2-#16(CCTV)
122	2" RGS	1-12 SMFO
	1" RGS	1-CAT3, 1-#18(SP)

* EXISTING CONDUIT BY PROJECT NO. 088-177

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 10 20
SCALE 1"=10'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..STA-06.dgn

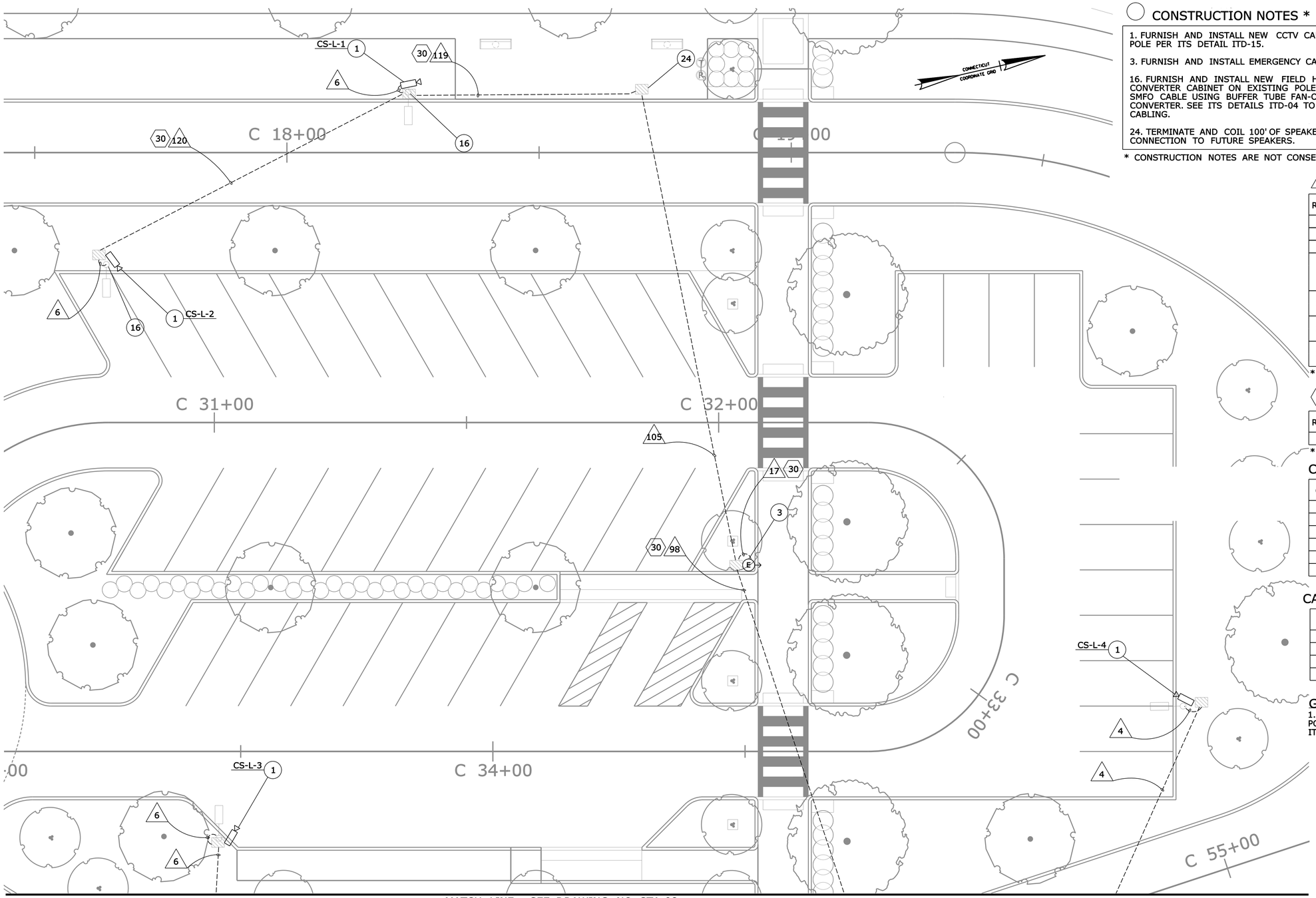
SIGNATURE/BLOCK:
IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CT*fastrak*
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN
DRAWING TITLE: EAST STREET STATION

PROJECT NO. 088-179
DRAWING NO. STA-06
SHEET NO. 01.06.006

Border Version: 11/14/08



MATCH LINE - SEE DRAWING NO. STA-08

CONSTRUCTION NOTES *

1. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES ON EXISTING LIGHT POLE PER ITS DETAIL ITD-15.

3. FURNISH AND INSTALL EMERGENCY CALL BOX WITH UPS PER ITS DETAIL ITD-20.

16. FURNISH AND INSTALL NEW FIELD HARDENED MEDIA CONVERTER IN MEDIA CONVERTER CABINET ON EXISTING POLE PER ITS DETAIL ITD-15. TERMINATE 12 SMFO CABLE USING BUFFER TUBE FAN-OUT KIT DIRECTLY TO THE MEDIA CONVERTER. SEE ITS DETAILS ITD-04 TO ITD-07 FOR EQUIPMENT LAYOUT AND CABLING.

24. TERMINATE AND COIL 100' OF SPEAKER WIRE IN EXISTING HANDHOLE FOR CONNECTION TO FUTURE SPEAKERS.

* CONSTRUCTION NOTES ARE NOT CONSECUTIVE

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT*	INSTALL CONDUCTORS
4	1" RGS	1-CAT6, 1-#14(CCTV)
6	1" RGS	1-CAT6, 1-#12(CCTV)
17	1" RGS	2-CAT6, 1-CAT3
98	2" RGS	1-12 SMFO
	2" RGS	2-#12(CCTV), 2-CAT6, 1-CAT3, 1-#18(SP)
105	2" RGS	1-12 SMFO
	2" RGS	2-#12(CCTV), 1-#18(SP)
119	2" RGS	1-12 SMFO
	1" RGS	2-#12(CCTV)
120	2" RGS	1-12 SMFO
	1" RGS	1-#12(CCTV)

* EXISTING CONDUIT BY PROJECT NO. 088-177

ELECTRICAL NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INSTALL CONDUCTORS
30	1" RGS	2-#12(6), 1-#12(G)

* EXISTING CONDUIT BY PROJECT NO. 088-177

CIRCUIT TABLE

CCT	BKR	LOAD	DEVICES
(1)	20A	713W	VMS, ECB, TV
(2)	25A	2000W	TVM
(3)	25A	2000W	TVM
(4)	20A	244W	VMS
(5)	20A	469W	VMS, ECB, TV
(6)	20A	135W	ECB, MEDIA CONVERTER

CAMERA MOUNTING HEIGHT

CAMERA NAME	MOUNTING HEIGHT (FT)
CS-L-1	14
CS-L-2	12
CS-L-3	12
CS-L-4	12

GENERAL NOTE

1. THE CONTRACTOR SHALL CONFIRM ALL POWER WIRE SIZING AND CIRCUITS ONCE ITS EQUIPMENT HAS BEEN SELECTED.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 10 20
SCALE 1"=10'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..STA-07.dgn

SIGNATURE/BLOCK:
IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

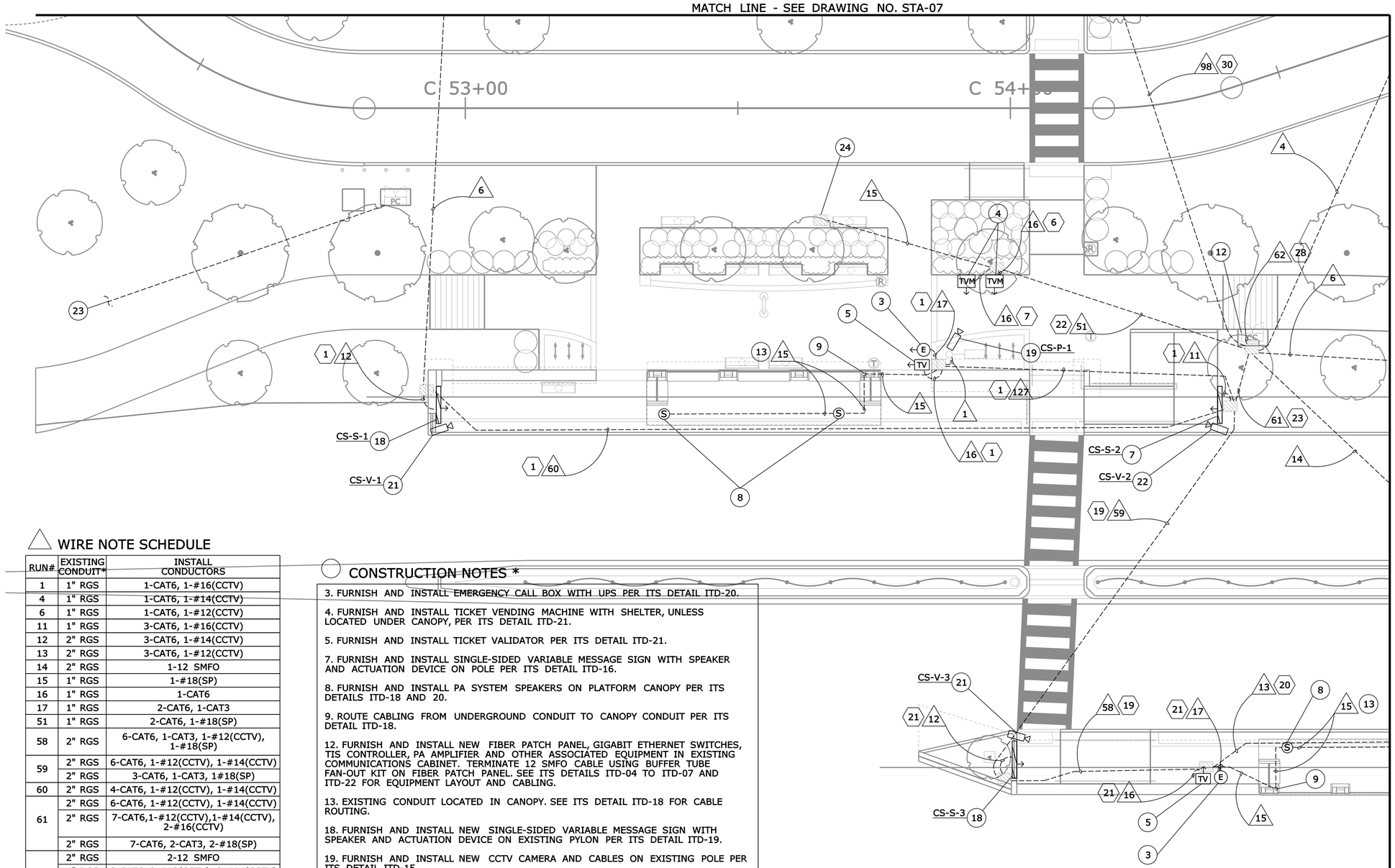
PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN

DRAWING TITLE: CEDAR STREET STATION

PROJECT NO. 088-179
DRAWING NO. STA-07
SHEET NO. 01.06.007

Border Version: 11/14/08



WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT*	INSTALL CONDUCTORS
1	1" RGS	1-CAT6, 1-#16(CCTV)
4	1" RGS	1-CAT6, 1-#14(CCTV)
6	1" RGS	1-CAT6, 1-#12(CCTV)
11	1" RGS	3-CAT6, 1-#16(CCTV)
12	2" RGS	3-CAT6, 1-#14(CCTV)
13	2" RGS	3-CAT6, 1-#12(CCTV)
14	2" RGS	1-12 SMFO
15	1" RGS	1-#18(SP)
16	1" RGS	1-CAT6
17	1" RGS	2-CAT6, 1-CAT3
51	1" RGS	2-CAT6, 1-#18(SP)
58	2" RGS	6-CAT6, 1-CAT3, 1-#12(CCTV), 1-#18(SP)
59	2" RGS	6-CAT6, 1-#12(CCTV), 1-#14(CCTV)
	2" RGS	3-CAT6, 1-CAT3, 1#18(SP)
60	2" RGS	4-CAT6, 1-#12(CCTV), 1-#14(CCTV)
61	2" RGS	6-CAT6, 1-#12(CCTV), 1-#14(CCTV)
	2" RGS	7-CAT6,1-#12(CCTV),1-#14(CCTV), 2-#16(CCTV)
	2" RGS	7-CAT6, 2-CAT3, 2-#18(SP)
62	2" RGS	2-12 SMFO
	4" RGS	8-CAT6, 2-#12(CCTV), 2-#14(CCTV)
	4" RGS	8-CAT6,3-#12(CCTV),1-#14(CCTV), 2-#16(CCTV)
	4" RGS	10-CAT6, 3-CAT3, 4-#18(SP)
	3" RGS	SPARE
98	2" RGS	1-12 SMFO
	2" RGS	2-#12(CCTV), 2-CAT6, 1-CAT3, 1-#18(SP)
127	2" RGS	1-CAT6, 1-CAT3, 1-#18(SP), 1-#16(CCTV)

* EXISTING CONDUIT BY PROJECT NO. 088-177

CONSTRUCTION NOTES *

3. FURNISH AND INSTALL EMERGENCY CALL BOX WITH UPS PER ITS DETAIL ITD-20.

4. FURNISH AND INSTALL TICKET VENDING MACHINE WITH SHELTER, UNLESS LOCATED UNDER CANOPY, PER ITS DETAIL ITD-21.

5. FURNISH AND INSTALL TICKET VALIDATOR PER ITS DETAIL ITD-21.

7. FURNISH AND INSTALL SINGLE-SIDED VARIABLE MESSAGE SIGN WITH SPEAKER AND ACTUATION DEVICE ON POLE PER ITS DETAIL ITD-16.

8. FURNISH AND INSTALL PA SYSTEM SPEAKERS ON PLATFORM CANOPY PER ITS DETAILS ITD-18 AND 20.

9. ROUTE CABLING FROM UNDERGROUND CONDUIT TO CANOPY CONDUIT PER ITS DETAIL ITD-18.

12. FURNISH AND INSTALL NEW FIBER PATCH PANEL, GIGABIT ETHERNET SWITCHES, TIS CONTROLLER, PA AMPLIFIER AND OTHER ASSOCIATED EQUIPMENT IN EXISTING COMMUNICATIONS CABINET. TERMINATE 12 SMFO CABLE USING BUFFER TUBE FAN-OUT KIT ON FIBER PATCH PANEL. SEE ITS DETAILS ITD-04 TO ITD-07 AND ITD-22 FOR EQUIPMENT LAYOUT AND CABLING.

13. EXISTING CONDUIT LOCATED IN CANOPY. SEE ITS DETAIL ITD-18 FOR CABLE ROUTING.

18. FURNISH AND INSTALL NEW SINGLE-SIDED VARIABLE MESSAGE SIGN WITH SPEAKER AND ACTUATION DEVICE ON EXISTING PYLON PER ITS DETAIL ITD-19.

19. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES ON EXISTING POLE PER ITS DETAIL ITD-15.

21. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES ON EXISTING PYLON PER ITS DETAIL ITD-19.

22. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES ON VMS POLE PER ITS DETAIL ITD-16.

23. EXISTING CONDUIT AND POWER CABLING BY PROJECT NO. 093-180 BETWEEN POWER CABINET AND TRAFFIC MANAGEMENT SYSTEM CABINET. SEE CORRIDOR COMMUNICATION PLAN ITS-22 FOR CONTINUATION.

24. TERMINATE AND COIL 100' OF SPEAKER WIRE IN EXISTING HANDHOLE FOR CONNECTION TO FUTURE SPEAKERS.

* CONSTRUCTION NOTES ARE NOT CONSECUTIVE

MATCH LINE - SEE DRAWING NO. STA-09

ELECTRICAL NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INSTALL CONDUCTORS
1	1" RGS	2-#12(1), 1-#12(G)
6	1" RGS	2-#10(2), 1-#10(G)
7	1" RGS	2-#10(3), 1-#10(G)
19	1" RGS	2-#12(4), 1-#12(G)
		2-#12(5), 1-#12(G)
20	1" RGS	2-#12(4), 1-#12(G)
21	1" RGS	2-#12(5), 1-#10(G)
22	1" RGS	2-#10(2), 1-#12(G)
		2-#10(3), 1-#12(G)
23	2" RGS	2-#12(4), 1-#12(G)
		2-#12(5), 1-#12(G)
		2-#12(1), 1-#12(G)
28	2" RGS	2-#10(2), 1-#12(G)
		2-#10(3), 1-#12(G)
	2" RGS	2-#12(4), 1-#12(G)
		2-#12(5), 1-#12(G)
		2-#12(1), 1-#12(G)
	2" RGS	2-#12(6), 1-#12(G)
30	1" RGS	2-#12(6), 1-#12(G)

* EXISTING CONDUIT BY PROJECT NO. 088-177

CIRCUIT TABLE

CCT	BKR	LOAD	DEVICES
(1)	20A	713W	VMS, ECB, TV
(2)	25A	2000W	TVM
(3)	25A	2000W	TVM
(4)	20A	244W	VMS
(5)	20A	469W	VMS, ECB, TV
(6)	20A	125W	ECB

CAMERA MOUNTING HEIGHT

CAMERA NAME	MOUNTING HEIGHT (FT)
CS-V-1	PYLON MOUNTED
CS-V-2	VMS POLE
CS-V-3	PYLON MOUNTED
CS-P-1	14

GENERAL NOTE

1. THE CONTRACTOR SHALL CONFIRM ALL POWER WIRE SIZING AND CIRCUITS ONCE ITS EQUIPMENT HAS BEEN SELECTED.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 10 20
SCALE 1"=10'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..STA-08.dgn

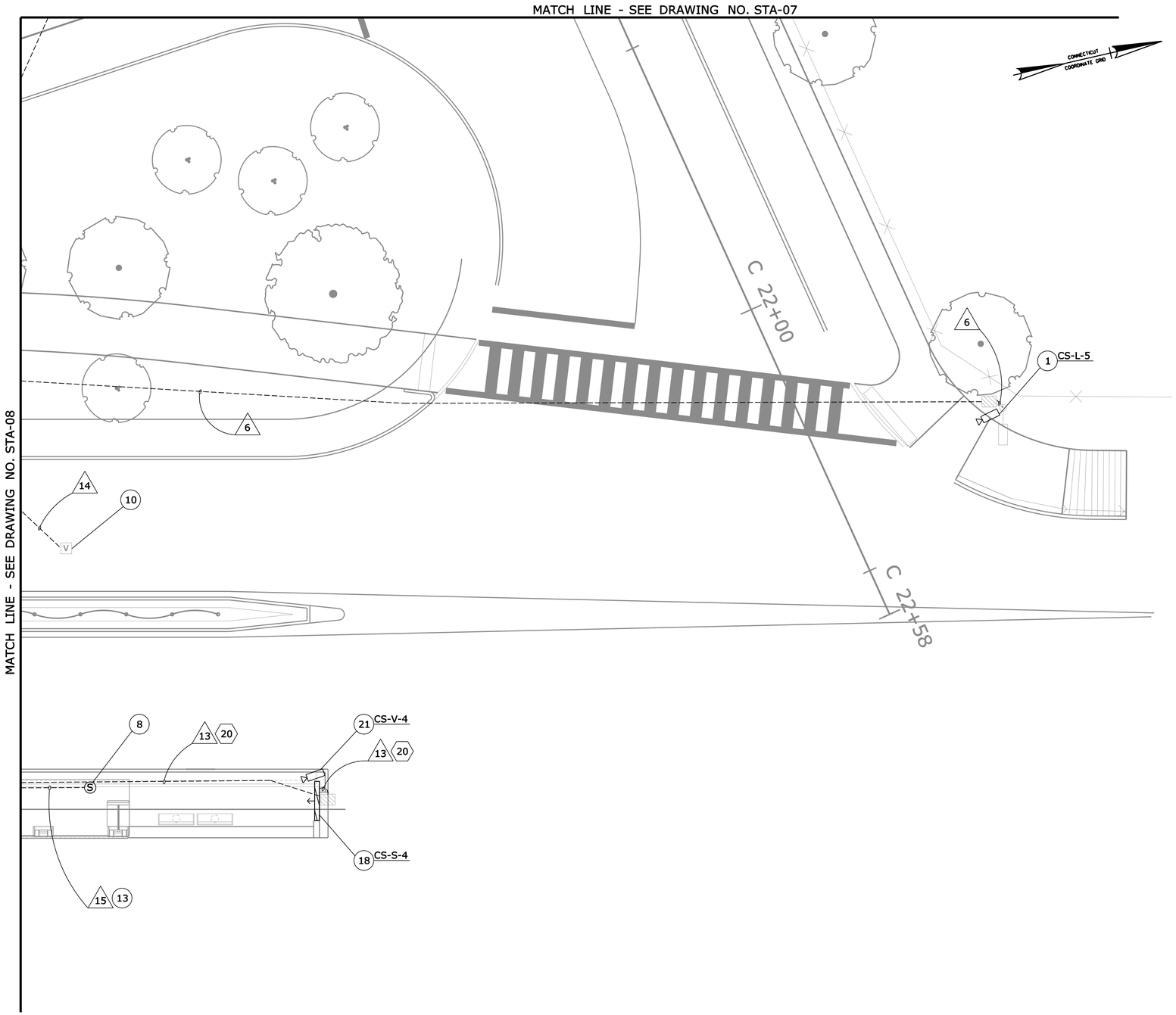
SIGNATURE/BLOCK:
IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CT*fastrak*
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN
DRAWING TITLE: CEDAR STREET STATION

PROJECT NO. 088-179
DRAWING NO. STA-08
SHEET NO. 01.06.008

Border Version: 11/14/08



CONSTRUCTION NOTES *

1. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES ON EXISTING LIGHT POLE PER ITS DETAIL ITD-15.

8. FURNISH AND INSTALL PA SYSTEM SPEAKERS ON PLATFORM CANOPY PER ITS DETAILS ITD-18 AND 20.

10. SEE CORRIDOR COMMUNICATION PLAN ITS-15 FOR DROP FIBER CONNECTION TO DISTRIBUTION FIBER.

13. EXISTING CONDUIT LOCATED IN CANOPY. SEE ITS DETAIL ITD-18 FOR CABLE ROUTING.

18. FURNISH AND INSTALL NEW SINGLE-SIDED VARIABLE MESSAGE SIGN WITH SPEAKER AND ACTUATION DEVICE ON EXISTING PYLON PER ITS DETAIL ITD-19.

21. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES ON EXISTING PYLON PER ITS DETAIL ITD-19.

* CONSTRUCTION NOTES ARE NOT CONSECUTIVE

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT*	INSTALL CONDUCTORS
6	1" RGS	1-CAT6, 1-#12(CCTV)
13	2" RGS	3-CAT6, 1-#12(CCTV)
14	2" RGS	1-12 SMFO
15	1" RGS	1-#18(SP)

* EXISTING CONDUIT BY PROJECT NO. 088-177

ELECTRICAL NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INSTALL CONDUCTORS
20	1" RGS	2-#12(4), 1-#12(G)

* EXISTING CONDUIT BY PROJECT NO. 088-177

CIRCUIT TABLE

CCT	BKR	LOAD	DEVICES
(1)	20A	713W	VMS, ECB, TV
(2)	25A	2000W	TVM
(3)	25A	2000W	TVM
(4)	20A	244W	VMS
(5)	20A	469W	VMS, ECB, TV
(6)	20A	125W	ECB

CAMERA MOUNTING HEIGHT

CAMERA NAME	MOUNTING HEIGHT (FT)
CS-V-4	PYLON MOUNTED
CS-L-5	14

GENERAL NOTE

1. THE CONTRACTOR SHALL CONFIRM ALL POWER WIRE SIZING AND CIRCUITS ONCE ITS EQUIPMENT HAS BEEN SELECTED.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 10 20
SCALE 1"=10'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..STA-09.dgn

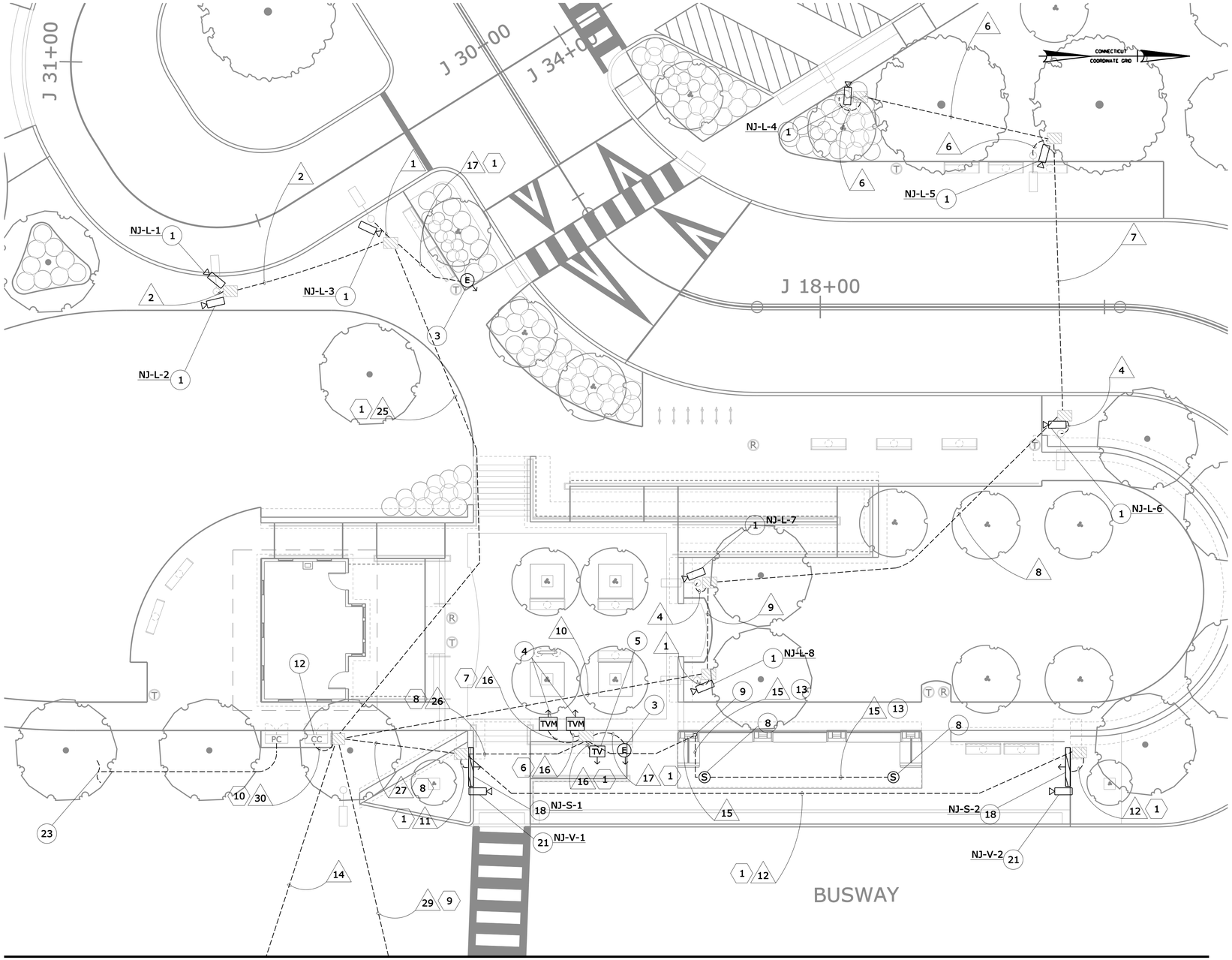
SIGNATURE/BLOCK:
IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN
DRAWING TITLE: CEDAR STREET STATION

PROJECT NO. 088-179
DRAWING NO. STA-09
SHEET NO. 01.06.009

Border Version: 11/14/08



MATCH LINE - SEE DRAWING NO. STA-11

CONSTRUCTION NOTES *

1. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES ON EXISTING LIGHT POLE PER ITS DETAIL ITD-15.

3. FURNISH AND INSTALL EMERGENCY CALL BOX WITH UPS PER ITS DETAIL ITD-20.

4. FURNISH AND INSTALL TICKET VENDING MACHINE WITH SHELTER, UNLESS LOCATED UNDER CANOPY, PER ITS DETAIL ITD-21.

5. FURNISH AND INSTALL TICKET VALIDATOR PER ITS DETAIL ITD-21.

8. FURNISH AND INSTALL PA SYSTEM SPEAKERS ON PLATFORM CANOPY PER ITS DETAILS ITD-18 AND 20.

9. ROUTE CABLING FROM UNDERGROUND CONDUIT TO CANOPY CONDUIT PER ITS DETAIL ITD-18.

12. FURNISH AND INSTALL NEW FIBER PATCH PANEL, GIGABIT ETHERNET SWITCHES, TIS CONTROLLER, PA AMPLIFIER AND OTHER ASSOCIATED EQUIPMENT IN EXISTING COMMUNICATIONS CABINET. TERMINATE 12 SMFO CABLE USING BUFFER TUBE FAN-OUT KIT ON FIBER PATCH PANEL. SEE ITS DETAILS ITD-04 TO ITD-07 AND ITD-22 FOR EQUIPMENT LAYOUT AND CABLING.

13. EXISTING CONDUIT LOCATED IN CANOPY. SEE ITS DETAIL ITD-18 FOR CABLE ROUTING.

18. FURNISH AND INSTALL NEW SINGLE-SIDED VARIABLE MESSAGE SIGN WITH SPEAKER AND ACTUATION DEVICE ON EXISTING PYLON PER ITS DETAIL ITD-19.

21. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES ON EXISTING PYLON PER ITS DETAIL ITD-19.

23. EXISTING CONDUIT AND POWER CABLING BY PROJECT NO. 093-180 BETWEEN POWER CABINET AND TRAFFIC MANAGEMENT SYSTEM CABINET. SEE CORRIDOR COMMUNICATION PLAN ITS-22 FOR CONTINUATION.

* CONSTRUCTION NOTES ARE NOT CONSECUTIVE

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT*	INSTALL CONDUCTORS
1	1" RGS	1-CAT6, 1-#16(CCTV)
2	2" RGS	2-CAT6, 2-#16(CCTV)
4	1" RGS	1-CAT6, 1-#14(CCTV)
6	1" RGS	1-CAT6, 1-#12(CCTV)
7	2" RGS	2-CAT6, 2-#12(CCTV)
8	2" RGS	3-CAT6, 2-#12(CCTV), 1-#14(CCTV)
9	2" RGS	4-CAT6, 2-#12(CCTV), 2-#14(CCTV)
10	2" RGS	5-CAT6,2-#12(CCTV),2-#14(CCTV), 1-#16(CCTV)
11	1" RGS	3-CAT6, 1-#16(CCTV)
12	2" RGS	3-CAT6, 1-#14(CCTV)
14	2" RGS	1-12 SMFO
15	1" RGS	1-#18(SP)
16	1" RGS	1-CAT6
17	1" RGS	2-CAT6, 1-CAT3
25	2" RGS	5-CAT6, 1-CAT3, 3-#16(CCTV)
26	2" RGS	5-CAT6, 1-CAT3, 1-#18(SP)
27	2" RGS	6-CAT6, 1-#14(CCTV), 1-#16(CCTV)
	2" RGS	5-CAT6, 1-CAT3, 1#18(SP)
29	2" RGS	6-CAT6, 1-#12(CCTV), 1-#14(CCTV)
	2" RGS	3-CAT6, 1-CAT3, 1-#18(SP)
30	2" RGS	1-12 SMFO
	4" RGS	12-CAT6,1-#12(CCTV),2-#14(CCTV), 1-#16(CCTV)
	4" RGS	8-CAT6,2-#12(CCTV),2-#14(CCTV), 4-#16(CCTV)
	4" RGS	10-CAT6, 3-CAT3, 2-#18(SP)
	3" RGS	SPARE

* EXISTING CONDUIT BY PROJECT NO. 088-177

CAMERA MOUNTING HEIGHT

CAMERA NAME	MOUNTING HEIGHT (FT)
NJ-L-1	11
NJ-L-2	10
NJ-L-3	12
NJ-L-4	12
NJ-L-5	14
NJ-L-6	10
NJ-L-7	10
NJ-L-8	10
NJ-V-1	PYLON MOUNTED
NJ-V-2	PYLON MOUNTED

CIRCUIT TABLE

CCT	BKR	LOAD	DEVICES
(1)	20A	838W	VMS, ECB, TV
(2)	25A	2000W	TVM
(3)	25A	2000W	TVM
(4)	20A	713W	VMS, ECB, TV

GENERAL NOTE

1. THE CONTRACTOR SHALL CONFIRM ALL POWER WIRE SIZING AND CIRCUITS ONCE ITS EQUIPMENT HAS BEEN SELECTED.

ELECTRICAL NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INSTALL CONDUCTORS
1	1" RGS	2-#12(1), 1-#12(G)
6	1" RGS	2-#10(2), 1-#10(G)
7	1" RGS	2-#10(3), 1-#10(G)
8	2" RGS	2-#12(1), 1-#12(G)
		2-#10(2), 1-#10(G)
		2-#10(3), 1-#10(G)
9	1" RGS	2-#10(4), 1-#10(G)
10	2" RGS	2-#10(1), 1-#10(G)
	2" RGS	2-#12(1), 1-#12(G)
		2-#10(2), 1-#10(G)
		2-#10(3), 1-#10(G)

* EXISTING CONDUIT BY PROJECT NO. 088-177

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 10 20
SCALE 1"=10'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..STA-10.dgn

SIGNATURE/BLOCK:
IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEWINGTON

DRAWING TITLE: NEWINGTON JUNCTION STATION

PROJECT NO. 088-179
DRAWING NO. STA-10
SHEET NO. 01.06.010

Border Version: 11/14/08

CAMERA MOUNTING HEIGHT

CAMERA NAME	MOUNTING HEIGHT (FT)
NJ-V-3	PYLON MOUNTED
NJ-V-4	PYLON MOUNTED

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT*	INSTALL CONDUCTORS
12	2" RGS	3-CAT6, 1-#14(CCTV)
13	2" RGS	3-CAT6, 1-#12(CCTV)
14	2" RGS	1-12 SMFO
15	1" RGS	1-#18(SP)
16	1" RGS	1-CAT6
17	1" RGS	2-CAT6, 1-CAT3
28	2" RGS	3-CAT6, 1-#12(CCTV)
	2" RGS	3-CAT6, 1-CAT3, 1#18(SP)
29	2" RGS	6-CAT6, 1-#12(CCTV), 1-#14(CCTV)
	2" RGS	3-CAT6, 1-CAT3, 1-#18(SP)

* EXISTING CONDUIT BY PROJECT NO. 088-177

ELECTRICAL NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INSTALL CONDUCTORS
9	1" RGS	2-#10(4), 1-#10(G)

* EXISTING CONDUIT BY PROJECT NO. 088-177

CIRCUIT TABLE

CCT	BKR	LOAD	DEVICES
(1)	20A	838W	VMS, ECB, TV
(2)	25A	2000W	TVM
(3)	25A	2000W	TVM
(4)	20A	713W	VMS, ECB, TV

CONSTRUCTION NOTES *

3. FURNISH AND INSTALL EMERGENCY CALL BOX WITH UPS PER ITS DETAIL ITD-20.

5. FURNISH AND INSTALL TICKET VALIDATOR PER ITS DETAIL ITD-21.

8. FURNISH AND INSTALL PA SYSTEM SPEAKERS ON PLATFORM CANOPY PER ITS DETAILS ITD-18 AND 20.

9. ROUTE CABLING FROM UNDERGROUND CONDUIT TO CANOPY CONDUIT PER ITS DETAIL ITD-18.

10. SEE CORRIDOR COMMUNICATION PLAN ITS-22 FOR DROP FIBER CONNECTION TO DISTRIBUTION FIBER.

13. EXISTING CONDUIT LOCATED IN CANOPY. SEE ITS DETAIL ITD-18 FOR CABLE ROUTING.

18. FURNISH AND INSTALL NEW SINGLE-SIDED VARIABLE MESSAGE SIGN WITH SPEAKER AND ACTUATION DEVICE ON EXISTING PYLON PER ITS DETAIL ITD-19.

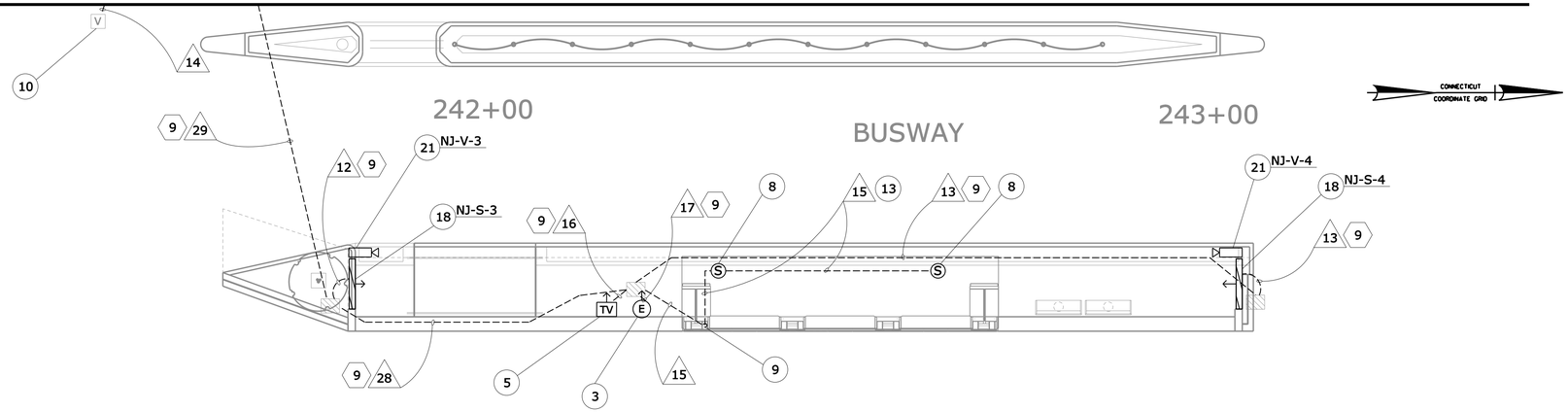
21. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES ON EXISTING PYLON PER ITS DETAIL ITD-19.

* CONSTRUCTION NOTES ARE NOT CONSECUTIVE

GENERAL NOTE

1. THE CONTRACTOR SHALL CONFIRM ALL POWER WIRE SIZING AND CIRCUITS ONCE ITS EQUIPMENT HAS BEEN SELECTED.

MATCH LINE - SEE DRAWING NO. STA-10



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 9/20/2012

DESIGNER/DRAFTER: **LM/SM**

CHECKED BY: **CHP**

SCALE IN FEET 0 10 20

SCALE 1"=10'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..STA-11.dgn

SIGNATURE/ BLOCK:

IBI GROUP

IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA

tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:

CT*fastrak*

ITS & COMMUNICATIONS SYSTEMS

TOWN: **NEWINGTON**

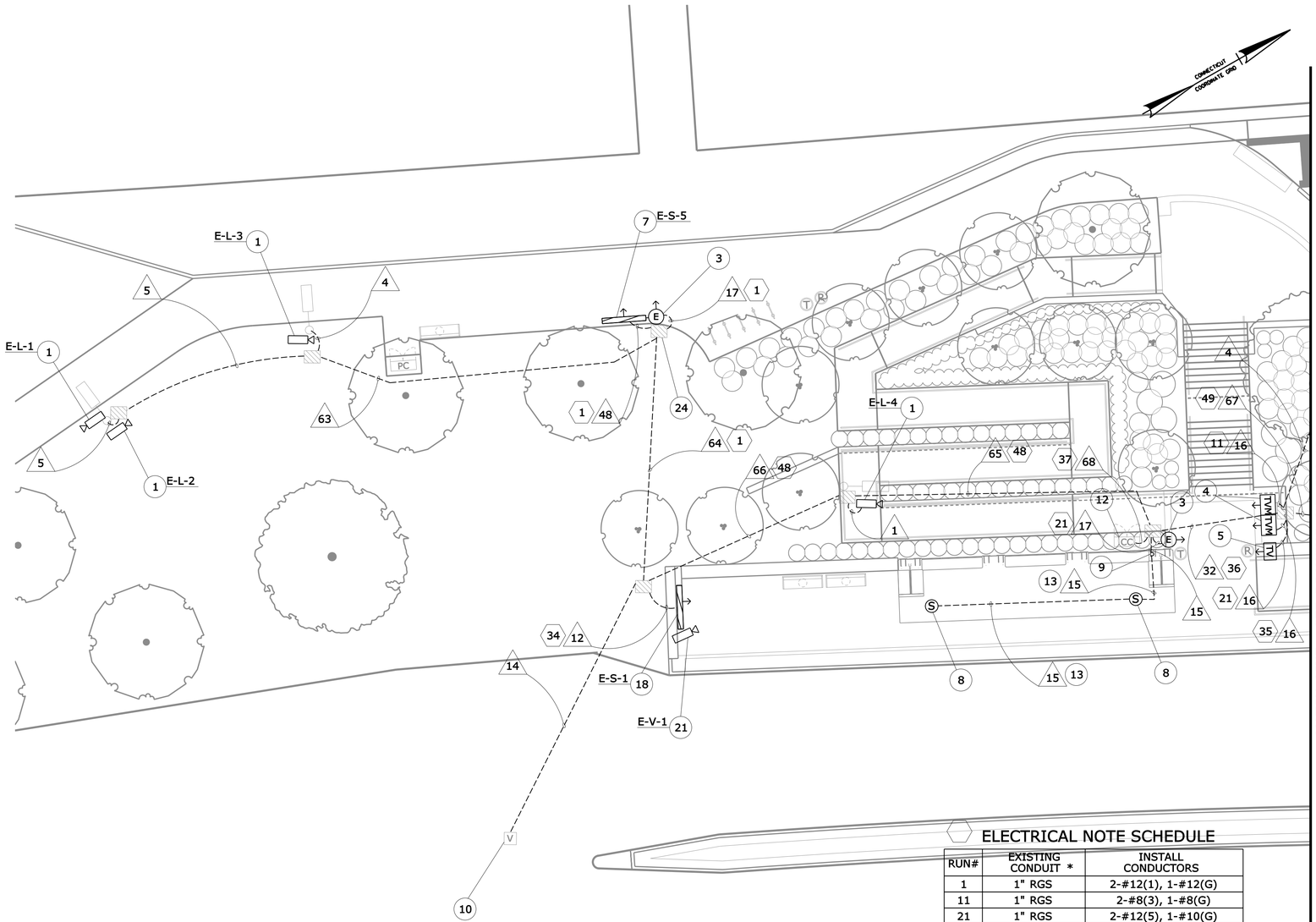
DRAWING TITLE: **NEWINGTON JUNCTION STATION**

PROJECT NO. **088-179**

DRAWING NO. **STA-11**

SHEET NO. **01.06.011**

Border Version: 11/14/08



CONSTRUCTION NOTES *

1. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES ON EXISTING LIGHT POLE PER ITS DETAIL ITD-15.

3. FURNISH AND INSTALL EMERGENCY CALL BOX WITH UPS PER ITS DETAIL ITD-20.

4. FURNISH AND INSTALL TICKET VENDING MACHINE WITH SHELTER, UNLESS LOCATED UNDER CANOPY, PER ITS DETAIL ITD-21.

5. FURNISH AND INSTALL TICKET VALIDATOR PER ITS DETAIL ITD-21.

7. FURNISH AND INSTALL SINGLE-SIDED VARIABLE MESSAGE SIGN WITH SPEAKER AND ACTUATION DEVICE ON POLE PER ITS DETAIL ITD-16.

8. FURNISH AND INSTALL PA SYSTEM SPEAKERS ON PLATFORM CANOPY PER ITS DETAILS ITD-18 AND 20.

9. ROUTE CABLING FROM UNDERGROUND CONDUIT TO CANOPY CONDUIT PER ITS DETAIL ITD-18.

10. SEE CORRIDOR COMMUNICATION PLAN ITS-29 FOR DROP FIBER CONNECTION TO DISTRIBUTION FIBER.

12. FURNISH AND INSTALL NEW FIBER PATCH PANEL, GIGABIT ETHERNET SWITCHES, TIS CONTROLLER, PA AMPLIFIER AND OTHER ASSOCIATED EQUIPMENT IN EXISTING COMMUNICATIONS CABINET. TERMINATE 12 SMFO CABLE USING BUFFER TUBE FAN-OUT KIT ON FIBER PATCH PANEL. SEE ITS DETAILS ITD-04 TO ITD-07 AND ITD-22 FOR EQUIPMENT LAYOUT AND CABLING.

13. EXISTING CONDUIT LOCATED IN CANOPY. SEE ITS DETAIL ITD-18 FOR CABLE ROUTING.

18. FURNISH AND INSTALL NEW SINGLE-SIDED VARIABLE MESSAGE SIGN WITH SPEAKER AND ACTUATION DEVICE ON EXISTING PYLON PER ITS DETAIL ITD-19.

21. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES ON EXISTING PYLON PER ITS DETAIL ITD-19.

24. TERMINATE AND COIL 100' OF SPEAKER WIRE IN EXISTING HANDHOLE FOR CONNECTION TO FUTURE SPEAKERS.

* CONSTRUCTION NOTES ARE NOT CONSECUTIVE

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT*	INSTALL CONDUCTORS
1	1" RGS	1-CAT6, 1-#16(CCTV)
4	1" RGS	1-CAT6, 1-#14(CCTV)
5	2" RGS	2-CAT6, 2-#14(CCTV)
12	2" RGS	3-CAT6, 1-#14(CCTV)
14	2" RGS	1-12 SMFO
15	1" RGS	1-#18(SP)
16	1" RGS	1-CAT6
17	1" RGS	2-CAT6, 1-CAT3
32	2" RGS	6-CAT6, 1-CAT3, 1-#12(CCTV), 1-#14(CCTV)
	2" RGS	7-CAT6, 1-#12(CCTV), 2-#14(CCTV)
	2" RGS	6-CAT6, 1-CAT3, 1-#18(SP)
48	1" RGS	2-CAT6
63	2" RGS	3-CAT6, 3-#14(CCTV)
64	2" RGS	7-CAT6, 1-CAT3, 3-#14(CCTV), 1-#18(SP)
65	2" RGS	1-12 SMFO
	2" RGS	6-CAT6, 1-CAT3, 1-#14(CCTV)
66	2" RGS	1-12 SMFO
	2" RGS	4-CAT6, 4-#14(CCTV)
	2" RGS	6-CAT6, 1-CAT3, 1-#18(SP)
67	2" RGS	6-CAT6, 1-CAT3, 1-#12(CCTV), 1-#14(CCTV)
	2" RGS	6-CAT6,1-#12(CCTV),1-#14(CCTV)
	2" RGS	3-CAT6, 1-CAT3, 1-#18(SP)
68	2" RGS	2-12 SMFO
	4" RGS	8-CAT6,1-#12(CCTV),5-#14(CCTV), 2-#16(CCTV)
	4" RGS	9-CAT6
	4" RGS	6-CAT6, 3-CAT3, 3-#18(SP)
	3" RGS	SPARE

* EXISTING CONDUIT BY PROJECT NO. 088-177

CAMERA MOUNTING HEIGHT

CAMERA NAME	MOUNTING HEIGHT (FT)
E-L-1	10
E-L-2	11
E-L-3	10
E-L-4	10
E-V-1	PYLON MOUNTED

GENERAL NOTE

1. THE CONTRACTOR SHALL CONFIRM ALL POWER WIRE SIZING AND CIRCUITS ONCE ITS EQUIPMENT HAS BEEN SELECTED.

ELECTRICAL NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INSTALL CONDUCTORS
1	1" RGS	2-#12(1), 1-#12(G)
11	1" RGS	2-#8(3), 1-#8(G)
21	1" RGS	2-#12(5), 1-#10(G)
34	1" RGS	2-#12(2), 1-#12(G)
35	1" RGS	2-#8(4), 1-#8(G)
36	2" RGS	2-#10(6), 1-#10(G)
		2-#12(2), 1-#12(G)
	2" RGS	2-#8(3), 1-#8(G)
		2-#8(4), 1-#8(G)
37	2" RGS	2-#8(3), 1-#8(G)
		2-#8(4), 1-#8(G)
	2" RGS	2-#12(5), 1-#12(G)
		2-#10(6), 1-#10(G)
		4-#12(2), 2-#12(G)
48	1" RGS	2-#12(1), 1-#12(G)
		2-#12(2), 1-#12(G)
49	1" RGS	2-#10(6), 1-#10(G)
		2-#12(2), 1-#12(G)

* EXISTING CONDUIT BY PROJECT NO. 088-177

CIRCUIT TABLE

CCT	BKR	LOAD	DEVICES
(1)	20A	369W	ECB, VMS
(2)	20A	613W	ECB, VMS
(3)	25A	2000W	TVM
(4)	25A	2000W	TVM
(5)	20A	225W	ECB, TV
(6)	20A	713W	ECB, TV, VMS

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 10 20
SCALE 1"=10'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..STA-12.dgn

SIGNATURE/BLOCK:
IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

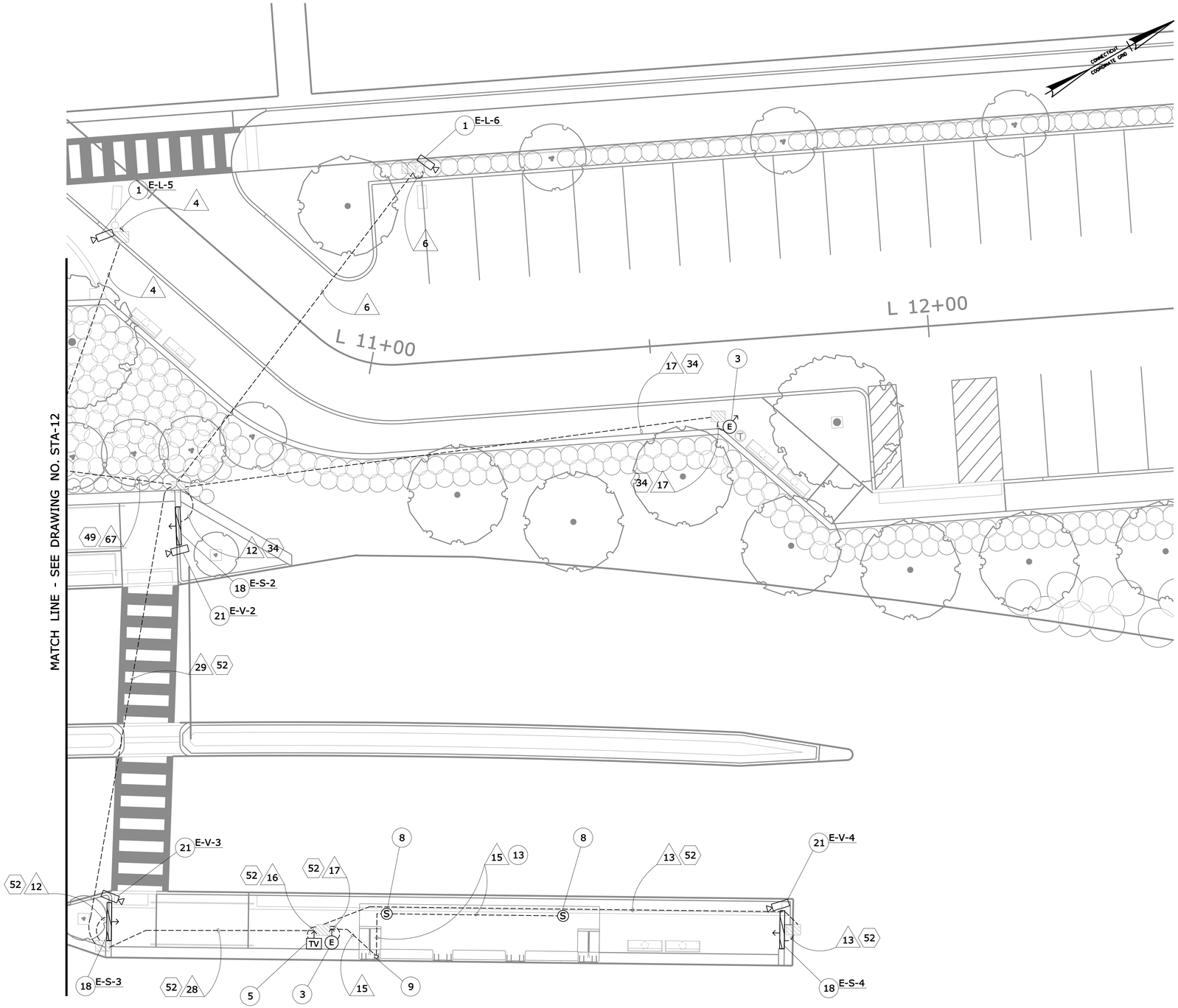
PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: WEST HARTFORD

DRAWING TITLE: ELMWOOD STATION

PROJECT NO. 088-179
DRAWING NO. STA-12
SHEET NO. 01.06.012

Border Version: 11/14/08



CONSTRUCTION NOTES *

1. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES ON EXISTING LIGHT POLE PER ITS DETAIL ITD-15.

3. FURNISH AND INSTALL EMERGENCY CALL BOX WITH UPS PER ITS DETAIL ITD-20.

5. FURNISH AND INSTALL TICKET VALIDATOR PER ITS DETAIL ITD-21.

8. FURNISH AND INSTALL PA SYSTEM SPEAKERS ON PLATFORM CANOPY PER ITS DETAILS ITD-18 AND 20.

9. ROUTE CABLING FROM UNDERGROUND CONDUIT TO CANOPY CONDUIT PER ITS DETAIL ITD-18.

13. EXISTING CONDUIT LOCATED IN CANOPY. SEE ITS DETAIL ITD-18 FOR CABLE ROUTING.

18. FURNISH AND INSTALL NEW SINGLE-SIDED VARIABLE MESSAGE SIGN WITH SPEAKER AND ACTUATION DEVICE ON EXISTING PYLON PER ITS DETAIL ITD-19.

21. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES ON EXISTING PYLON PER ITS DETAIL ITD-19.

* CONSTRUCTION NOTES ARE NOT CONSECUTIVE

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT*	INSTALL CONDUCTORS
4	1" RGS	1-CAT6, 1-#14(CCTV)
6	1" RGS	1-CAT6, 1-#12(CCTV)
12	2" RGS	3-CAT6, 1-#14(CCTV)
13	2" RGS	3-CAT6, 1-#12(CCTV)
15	1" RGS	1-#18(SP)
16	1" RGS	1-CAT6
17	1" RGS	2-CAT6, 1-CAT3
28	2" RGS	3-CAT6, 1-#12(CCTV)
	2" RGS	3-CAT6, 1-CAT3, 1#18(SP)
29	2" RGS	6-CAT6, 1-#12(CCTV), 1-#14(CCTV)
	2" RGS	3-CAT6, 1-CAT3, 1-#18(SP)
67	2" RGS	6-CAT6, 1-CAT3, 1-#12(CCTV), 1-#14(CCTV)
	2" RGS	6-CAT6,1-#12(CCTV),1-#14(CCTV)
	2" RGS	3-CAT6, 1-CAT3, 1-#18(SP)

* EXISTING CONDUIT BY PROJECT NO. 088-177

ELECTRICAL NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INSTALL CONDUCTORS
34	1" RGS	2-#12(2), 1-#12(G)
49	1" RGS	2-#10(6), 1-#10(G)
		2-#12(2), 1-#12(G)
52	1" RGS	2-#10(6), 1-#10(G)

* EXISTING CONDUIT BY PROJECT NO. 088-177

CIRCUIT TABLE

CCT	BKR	LOAD	DEVICES
(1)	20A	369W	ECB, VMS
(2)	20A	613W	ECB, VMS
(3)	25A	2000W	TVM
(4)	25A	2000W	TVM
(5)	20A	225W	ECB, TV
(6)	20A	713W	ECB, TV, VMS

CAMERA MOUNTING HEIGHT

CAMERA NAME	MOUNTING HEIGHT (FT)
E-L-5	12
E-L-6	12
E-V-2	PYLON MOUNTED
E-V-3	PYLON MOUNTED
E-V-4	PYLON MOUNTED

GENERAL NOTE

1. THE CONTRACTOR SHALL CONFIRM ALL POWER WIRE SIZING AND CIRCUITS ONCE ITS EQUIPMENT HAS BEEN SELECTED.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 10 20
SCALE 1"=10'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..STA-13.dgn

SIGNATURE/BLOCK:
IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

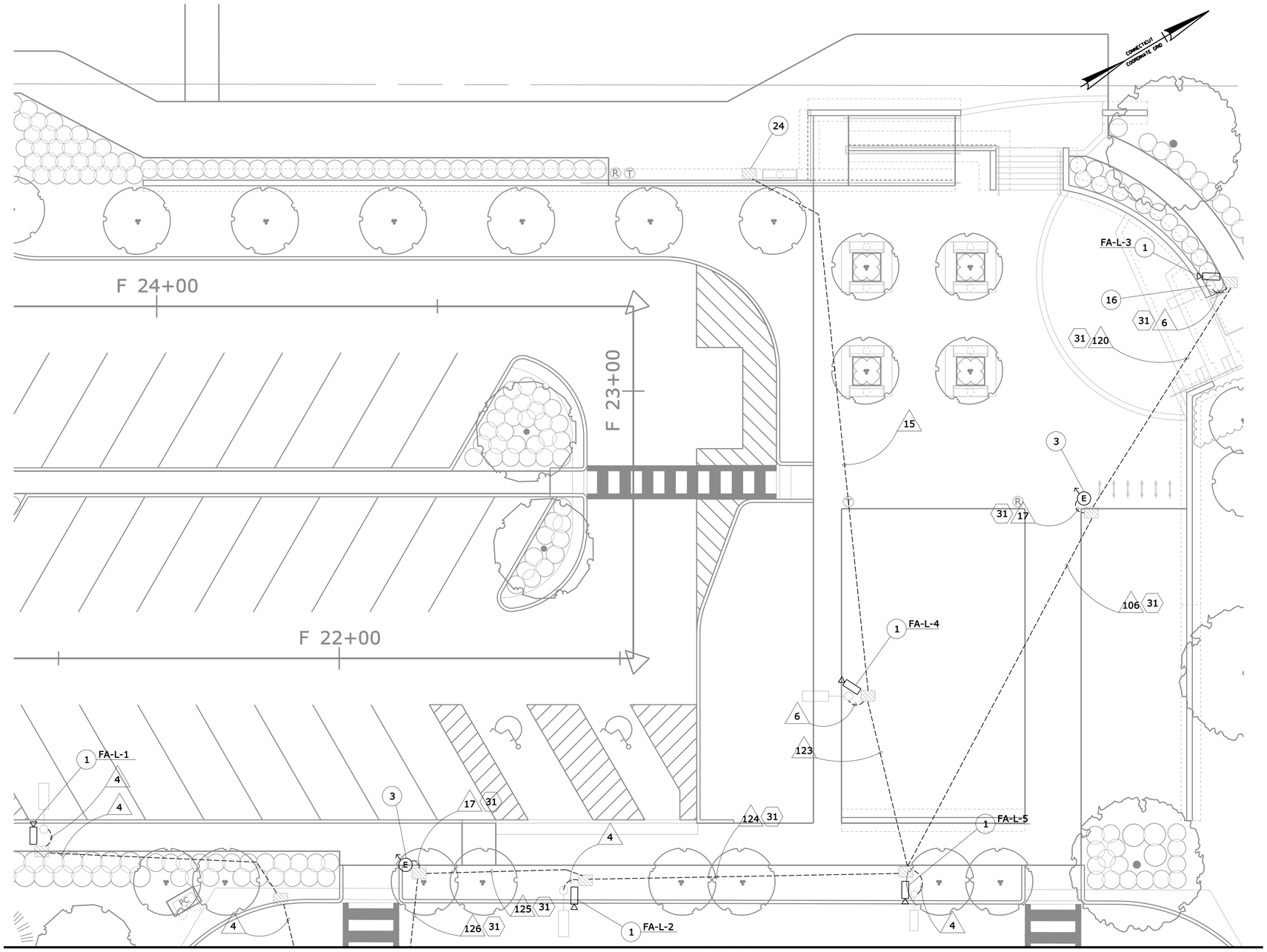
PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: WEST HARTFORD

DRAWING TITLE: ELMWOOD STATION

PROJECT NO. 088-179
DRAWING NO. STA-13
SHEET NO. 01.06.013

Border Version: 11/14/08



MATCH LINE - SEE DRAWING NO. STA-15

CONSTRUCTION NOTES *

1. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES ON EXISTING LIGHT POLE PER ITS DETAIL ITD-15.

3. FURNISH AND INSTALL EMERGENCY CALL BOX WITH UPS PER ITS DETAIL ITD-20.

16. FURNISH AND INSTALL NEW FIELD HARDENED MEDIA CONVERTER IN MEDIA CONVERTER CABINET ON EXISTING POLE PER ITS DETAIL ITD-15. TERMINATE 12 SMFO CABLE USING BUFFER TUBE FAN-OUT KIT DIRECTLY TO THE MEDIA CONVERTER. SEE ITS DETAILS ITD-04 TO ITD-07 FOR EQUIPMENT LAYOUT AND CABLING.

24. TERMINATE AND COIL 100' OF SPEAKER WIRE IN EXISTING HANDHOLE FOR CONNECTION TO FUTURE SPEAKERS.

* CONSTRUCTION NOTES ARE NOT CONSECUTIVE

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT*	INSTALL CONDUCTORS
4	1" RGS	1-CAT6, 1-#14(CCTV)
6	1" RGS	1-CAT6, 1-#12(CCTV)
15	1" RGS	1-#18(SP)
17	1" RGS	2-CAT6, 1-CAT3
106	2" RGS	1-12 SMFO
	2" RGS	1-#12(CCTV), 2-CAT6, 1-CAT3
120	2" RGS	1-12 SMFO
	1" RGS	1-#12(CCTV)
123	1" RGS	1-CAT6, 1-#12(CCTV), 1-#18(SP)
124	2" RGS	1-12 SMFO
	2" RGS	4-CAT6, 1-CAT3, 2-#12(CCTV), 1-#14(CCTV), 1-#18(SP)
125	2" RGS	1-12 SMFO
	2" RGS	5-CAT6, 1-CAT3, 2-#12(CCTV), 2-#14(CCTV), 1-#18(SP)
126	2" RGS	1-12 SMFO
	2" RGS	7-CAT6, 2-CAT3, 2-#12(CCTV), 2-#14(CCTV), 1-#18(SP)

* EXISTING CONDUIT BY PROJECT NO. 088-177

ELECTRICAL NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INSTALL CONDUCTORS
31	1" RGS	2-#10(5), 1-#10(G)

* EXISTING CONDUIT BY PROJECT NO. 088-177

CIRCUIT TABLE

CCT	BKR	LOAD	DEVICES
(1)	20A	225W	ECB, TV
(2)	25A	2000W	TVM
(3)	25A	2000W	TVM
(4)	20A	713W	VMS, ECB, TV
(5)	20A	250W	ECB

CAMERA MOUNTING HEIGHT

CAMERA NAME	MOUNTING HEIGHT (FT)
FA-L-1	10
FA-L-2	14
FA-L-3	10
FA-L-4	10
FA-L-5	14

GENERAL NOTE

1. THE CONTRACTOR SHALL CONFIRM ALL POWER WIRE SIZING AND CIRCUITS ONCE ITS EQUIPMENT HAS BEEN SELECTED.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 10 20
SCALE 1"=10'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_PLN_088_179_STA-14.dgn

SIGNATURE/ BLOCK:
IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: WEST HARTFORD

DRAWING TITLE: FLATBUSH AVE STATION

PROJECT NO. 088-179
DRAWING NO. STA-14
SHEET NO. 01.06.014

Border Version: 11/14/08

CAMERA MOUNTING HEIGHT

CAMERA NAME	MOUNTING HEIGHT (FT)
FA-L-6	10
FA-L-7	14
FA-L-8	10
FA-C-1	CANOPY
FA-C-2	CANOPY

ELECTRICAL NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INSTALL CONDUCTORS
1	1" RGS	2-#12(1), 1-#12(G)
7	1" RGS	2-#10(3), 1-#10(G)
20	1" RGS	2-#12(4), 1-#12(G)
24	1" RGS	2-#6(2), 1-#6(G)
25	2" RGS	2-#6(2), 1-#6(G)
		2-#12(1), 1-#12(G)
26	2" RGS	2-#6(2), 1-#6(G)
		2-#12(1), 1-#12(G)
	2" RGS	2-#12(4), 1-#10(G)
		2-#10(3), 1-#10(G)
29	2" RGS	2-#10(5), 1-#10(G)
	2" RGS	2-#6(2), 1-#6(G)
		2-#12(1), 1-#12(G)
	2" RGS	2-#10(2), 1-#10(G)
		2-#12(4), 1-#12(G)
31	1" RGS	2-#10(5), 1-#10(G)
53	1" RGS	2-#12(4), 1-#12(G)
	2" RGS	2-#6(2), 1-#6(G)
		2-#12(1), 1-#12(G)

* EXISTING CONDUIT BY PROJECT NO. 088-177

CONSTRUCTION NOTES *

1. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES ON EXISTING LIGHT POLE PER ITS DETAIL ITD-15.

2. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES UNDER PLATFORM CANOPY PER ITS DETAIL ITD-17.

3. FURNISH AND INSTALL EMERGENCY CALL BOX WITH UPS PER ITS DETAIL ITD-20.

4. FURNISH AND INSTALL TICKET VENDING MACHINE WITH SHELTER, UNLESS LOCATED UNDER CANOPY, PER ITS DETAIL ITD-21.

5. FURNISH AND INSTALL TICKET VALIDATOR PER ITS DETAIL ITD-21.

6. FURNISH AND INSTALL DOUBLE-SIDED VARIABLE MESSAGE SIGN WITH SPEAKER ON PLATFORM CANOPY PER ITS DETAIL ITD-17.

9. ROUTE CABLING FROM UNDERGROUND CONDUIT TO CANOPY CONDUIT PER ITS DETAIL ITD-18.

10. SEE CORRIDOR COMMUNICATION PLAN ITS-33 FOR DROP FIBER CONNECTION TO DISTRIBUTION FIBER.

12. FURNISH AND INSTALL NEW FIBER PATCH PANEL, GIGABIT ETHERNET SWITCHES, TIS CONTROLLER, PA AMPLIFIER AND OTHER ASSOCIATED EQUIPMENT IN EXISTING COMMUNICATIONS CABINET. TERMINATE 12 SMFO CABLE USING BUFFER TUBE FAN-OUT KIT ON FIBER PATCH PANEL. SEE ITS DETAILS ITD-04 TO ITD-07 AND ITD-22 FOR EQUIPMENT LAYOUT AND CABLING.

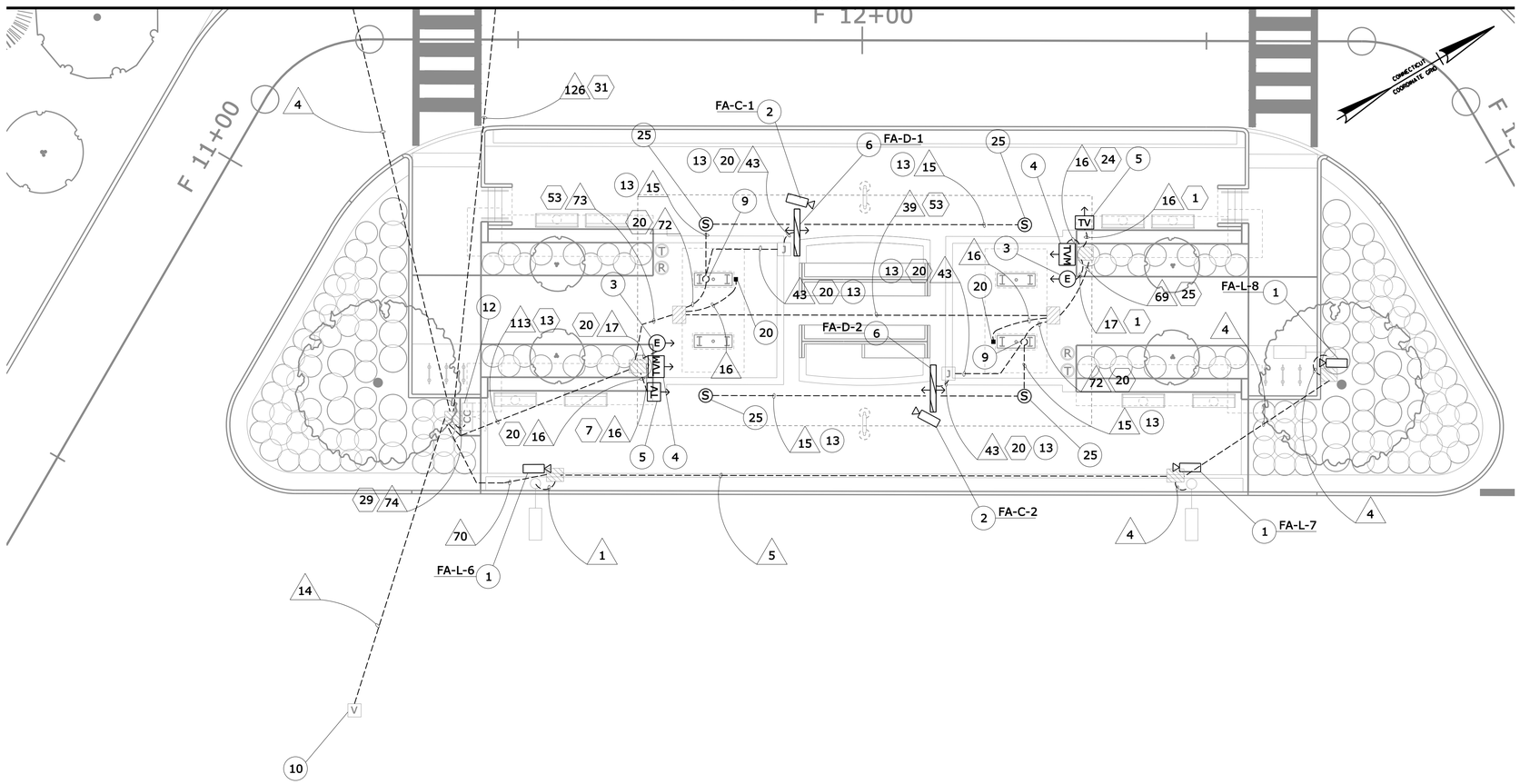
13. EXISTING CONDUIT LOCATED IN CANOPY. SEE ITS DETAIL ITD-18 FOR CABLE ROUTING.

20. FURNISH AND INSTALL ACTUATION DEVICE ON THE STATION PIER PER ITS DETAIL ITD-18.

25. FURNISH AND INSTALL PA SYSTEM SPEAKERS ON VAULTED ARCH CANOPY PER ITS DETAIL ITD-18 AND ITD-20.

* CONSTRUCTION NOTES ARE NOT CONSECUTIVE

MATCH LINE - SEE DRAWING NO. STA-14



WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT*	INSTALL CONDUCTORS
1	1" RGS	1-CAT6, 1-#16(CCTV)
4	1" RGS	1-CAT6, 1-#14(CCTV)
5	2" RGS	2-CAT6, 2-#14(CCTV)
14	2" RGS	1-12 SMFO
15	1" RGS	1-#18(SP)
16	1" RGS	1-CAT6
17	1" RGS	2-CAT6, 1-CAT3
39	2" RGS	7-CAT6, 1-CAT3, 1-#14(CCTV), 1-#18(SP)
43	1" RGS	2-CAT6, 1-#14(CCTV)
69	2" RGS	4-CAT6, 1-CAT3
70	2" RGS	3-CAT6,2-#14(CCTV),1-#16(CCTV)
72	1" RGS	2-CAT6, 1-#14(CCTV), 1-#18(SP)
73	2" RGS	6-CAT6, 2-#14(CCTV)
	2" RGS	4-CAT6, 1-CAT3, 2-#18(SP)
74	2" RGS	2-12 SMFO
	4" RGS	10-CAT6,5-#14(CCTV),1-#16(CCTV)
	4" RGS	8-CAT6, 2-CAT3, 3-#18(SP)
	4" RGS	7-CAT6, 2-CAT3, 2-#12(CCTV), 2-#14(CCTV)
	3" RGS	SPARE
113	2" RGS	6-CAT6, 2-#14(CCTV)
	2" RGS	8-CAT6, 2-CAT3, 2-#18(SP)
126	2" RGS	1-12 SMFO
	2" RGS	7-CAT6, 2-CAT3, 2-#12(CCTV), 2-#14(CCTV), 1-#18(SP)

* EXISTING CONDUIT BY PROJECT NO. 088-177

CIRCUIT TABLE

CCT	BKR	LOAD	DEVICES
(1)	20A	225W	ECB, TV
(2)	25A	2000W	TVM
(3)	25A	2000W	TVM
(4)	20A	713W	VMS, ECB, TV
(5)	20A	250W	ECB

GENERAL NOTE

1. THE CONTRACTOR SHALL CONFIRM ALL POWER WIRE SIZING AND CIRCUITS ONCE ITS EQUIPMENT HAS BEEN SELECTED.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 10 20
SCALE 1"=10'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_PLN_088_179_STA-15.dgn

SIGNATURE/BLOCK:
IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

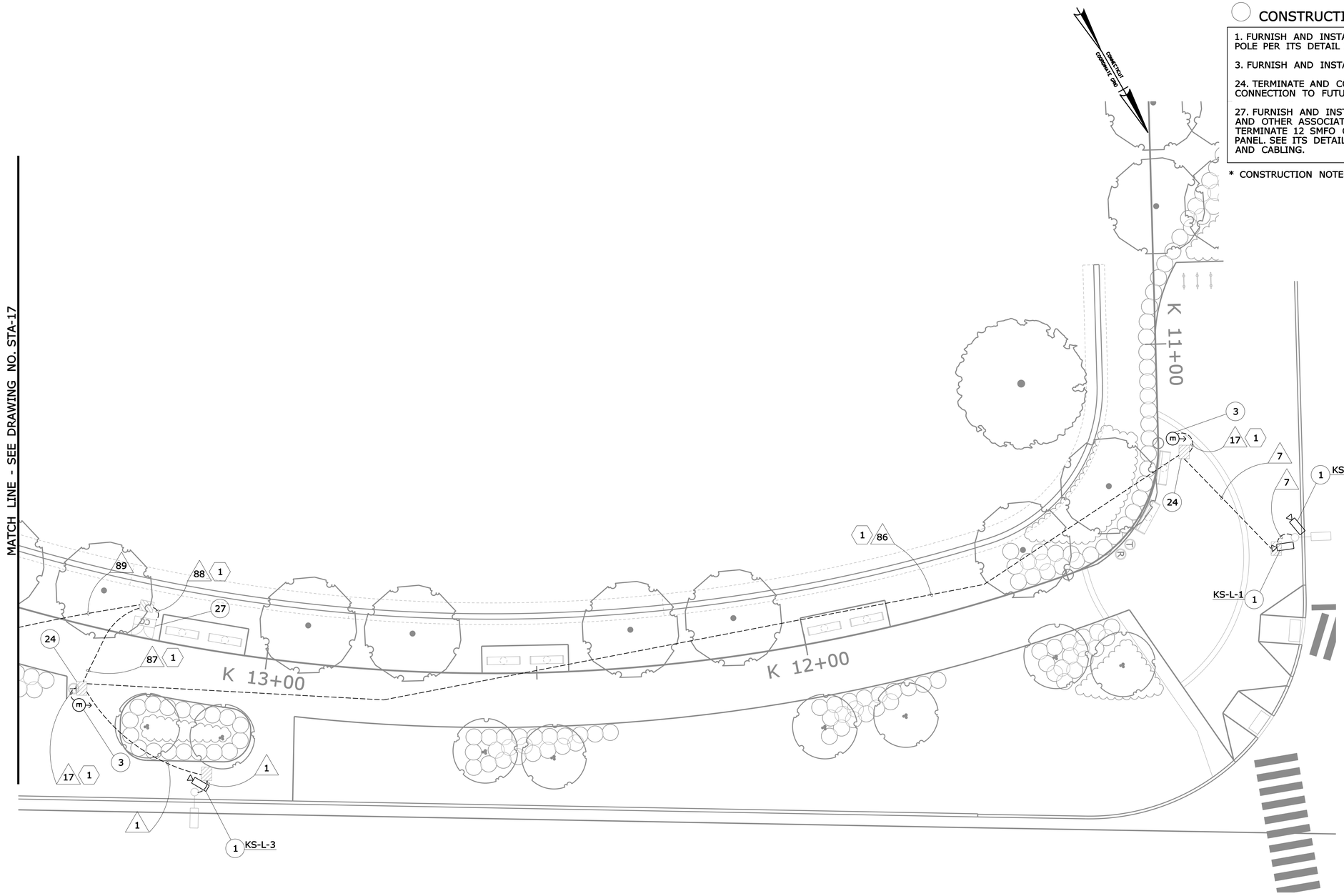
PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: WEST HARTFORD

DRAWING TITLE: FLATBUSH AVE STATION

PROJECT NO. 088-179
DRAWING NO. STA-15
SHEET NO. 01.06.015

Border Version: 11/14/08



CONSTRUCTION NOTES *

1. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES ON EXISTING LIGHT POLE PER ITS DETAIL ITD-15.

3. FURNISH AND INSTALL EMERGENCY CALL BOX WITH UPS PER ITS DETAIL ITD-20.

24. TERMINATE AND COIL 100' OF SPEAKER WIRE IN EXISTING HANDHOLE FOR CONNECTION TO FUTURE SPEAKERS.

27. FURNISH AND INSTALL NEW FIBER PATCH PANEL, GIGABIT ETHERNET SWITCHES, AND OTHER ASSOCIATED EQUIPMENT IN EXISTING COMMUNICATIONS CABINET. TERMINATE 12 SMFO CABLE USING BUFFER TUBE FAN-OUT KIT ON FIBER PATCH PANEL. SEE ITS DETAILS ITD-04 TO ITD-07 AND ITD-22 FOR EQUIPMENT LAYOUT AND CABLING.

* CONSTRUCTION NOTES ARE NOT CONSECUTIVE

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT*	INSTALL CONDUCTORS
1	1" RGS	1-CAT6, 1-#16(CCTV)
7	2" RGS	2-CAT6, 2-#12(CCTV)
15	1" RGS	1-#18(SP)
17	1" RGS	2-CAT6, 1-CAT3
86	2" RGS	4-CAT6, 1-CAT3, 2-#12(CCTV), 1-#18(SP)
87	2" RGS	7-CAT6, 2-CAT3, 2-#12(CCTV), 1-#16(CCTV), 2-#18(SP)
88	2" RGS	1-12 SMFO
	2" RGS	7-CAT6, 2-CAT3, 2-#12(CCTV), 1-#16(CCTV)
89	2" RGS	1-12 SMFO
	1" RGS	2-#18(SP)

* EXISTING CONDUIT BY PROJECT NO. 088-177

ELECTRICAL NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INSTALL CONDUCTORS
1	1" RGS	2-#12(1), 1-#12(G)

* EXISTING CONDUIT BY PROJECT NO. 088-177

CIRCUIT TABLE

CCT	BKR	LOAD	DEVICES
(1)	20A	500W	ECB, CCTV

CAMERA MOUNTING HEIGHT

CAMERA NAME	MOUNTING HEIGHT (FT)
KS-L-1	10
KS-L-2	11
KS-L-3	10

GENERAL NOTE

1. THE CONTRACTOR SHALL CONFIRM ALL POWER WIRE SIZING AND CIRCUITS ONCE ITS EQUIPMENT HAS BEEN SELECTED.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 10 20
SCALE 1"=10'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..STA-16.dgn

SIGNATURE/BLOCK:
IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

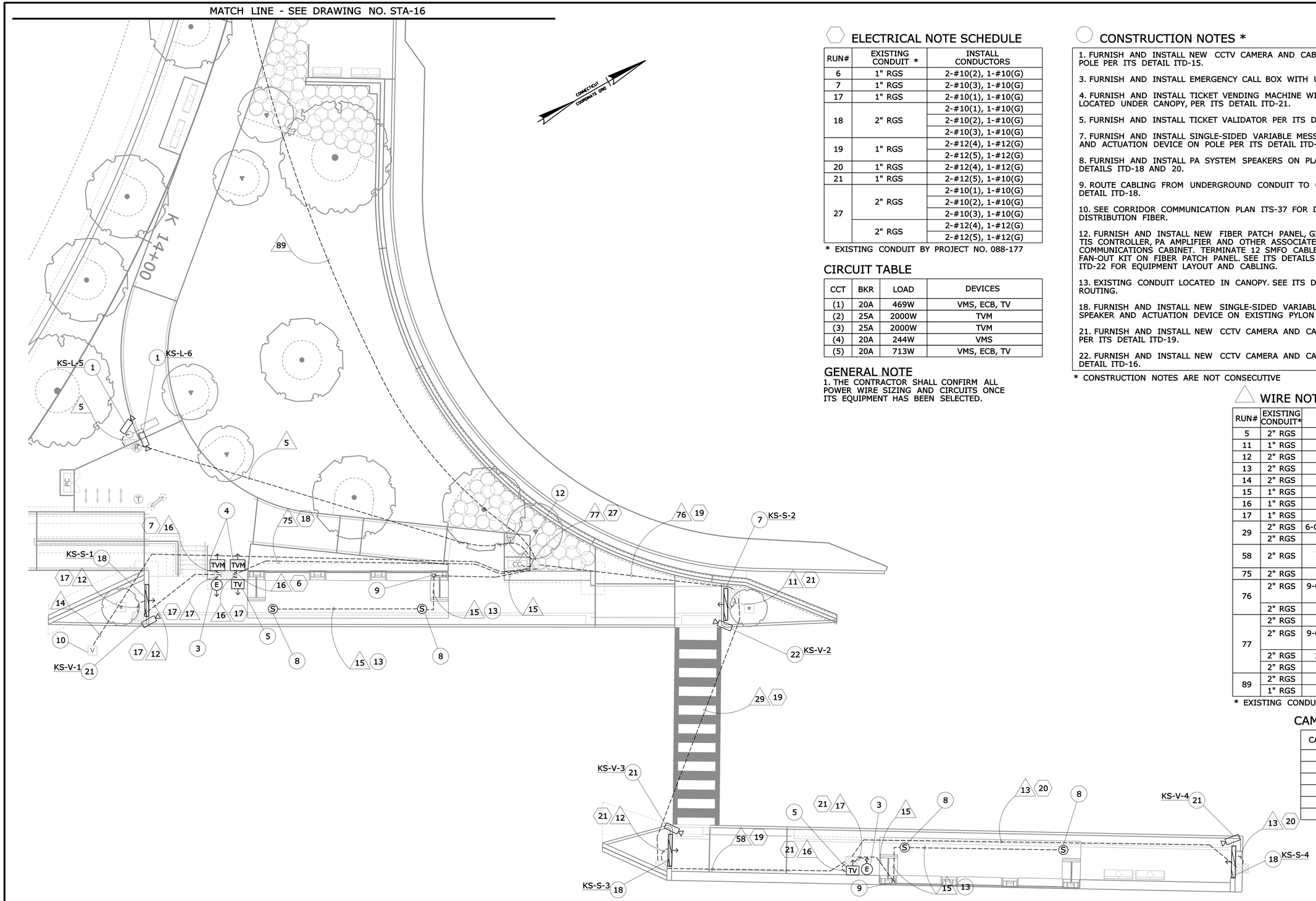
PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: HARTFORD

DRAWING TITLE: KANE STREET STATION

PROJECT NO. 088-179
DRAWING NO. STA-16
SHEET NO. 01.06.016

Border Version: 11/14/08



ELECTRICAL NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INSTALL CONDUCTORS
6	1" RGS	2-#10(2), 1-#10(G)
7	1" RGS	2-#10(3), 1-#10(G)
17	1" RGS	2-#10(1), 1-#10(G)
18	2" RGS	2-#10(1), 1-#10(G)
		2-#10(2), 1-#10(G)
		2-#10(3), 1-#10(G)
19	1" RGS	2-#12(4), 1-#12(G)
		2-#12(5), 1-#12(G)
20	1" RGS	2-#12(4), 1-#12(G)
21	1" RGS	2-#12(5), 1-#10(G)
27	2" RGS	2-#10(1), 1-#10(G)
		2-#10(2), 1-#10(G)
		2-#10(3), 1-#10(G)
	2" RGS	2-#12(4), 1-#12(G)
		2-#12(5), 1-#12(G)

* EXISTING CONDUIT BY PROJECT NO. 088-177

CIRCUIT TABLE

CCT	BKR	LOAD	DEVICES
(1)	20A	469W	VMS, ECB, TV
(2)	25A	2000W	TVM
(3)	25A	2000W	TVM
(4)	20A	244W	VMS
(5)	20A	713W	VMS, ECB, TV

GENERAL NOTE

1. THE CONTRACTOR SHALL CONFIRM ALL POWER WIRE SIZING AND CIRCUITS ONCE ITS EQUIPMENT HAS BEEN SELECTED.

CONSTRUCTION NOTES *

1. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES ON EXISTING LIGHT POLE PER ITS DETAIL ITD-15.

3. FURNISH AND INSTALL EMERGENCY CALL BOX WITH UPS PER ITS DETAIL ITD-20.

4. FURNISH AND INSTALL TICKET VENDING MACHINE WITH SHELTER, UNLESS LOCATED UNDER CANOPY, PER ITS DETAIL ITD-21.

5. FURNISH AND INSTALL TICKET VALIDATOR PER ITS DETAIL ITD-21.

7. FURNISH AND INSTALL SINGLE-SIDED VARIABLE MESSAGE SIGN WITH SPEAKER AND ACTUATION DEVICE ON POLE PER ITS DETAIL ITD-16.

8. FURNISH AND INSTALL PA SYSTEM SPEAKERS ON PLATFORM CANOPY PER ITS DETAILS ITD-18 AND 20.

9. ROUTE CABLING FROM UNDERGROUND CONDUIT TO CANOPY CONDUIT PER ITS DETAIL ITD-18.

10. SEE CORRIDOR COMMUNICATION PLAN ITS-37 FOR DROP FIBER CONNECTION TO DISTRIBUTION FIBER.

12. FURNISH AND INSTALL NEW FIBER PATCH PANEL, GIGABIT ETHERNET SWITCHES, TIS CONTROLLER, PA AMPLIFIER AND OTHER ASSOCIATED EQUIPMENT IN EXISTING COMMUNICATIONS CABINET. TERMINATE 12 SMFO CABLE USING BUFFER TUBE FAN-OUT KIT ON FIBER PATCH PANEL. SEE ITS DETAILS ITD-04 TO ITD-07 AND ITD-22 FOR EQUIPMENT LAYOUT AND CABLING.

13. EXISTING CONDUIT LOCATED IN CANOPY. SEE ITS DETAIL ITD-18 FOR CABLE ROUTING.

18. FURNISH AND INSTALL NEW SINGLE-SIDED VARIABLE MESSAGE SIGN WITH SPEAKER AND ACTUATION DEVICE ON EXISTING PYLON PER ITS DETAIL ITD-19.

21. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES ON EXISTING PYLON PER ITS DETAIL ITD-19.

22. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES ON VMS POLE PER ITS DETAIL ITD-16.

* CONSTRUCTION NOTES ARE NOT CONSECUTIVE

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT*	INSTALL CONDUCTORS
5	2" RGS	2-CAT6, 2-#14(CCTV)
11	1" RGS	3-CAT6, 1-#16(CCTV)
12	2" RGS	3-CAT6, 1-#14(CCTV)
13	2" RGS	3-CAT6, 1-#12(CCTV)
14	2" RGS	1-12 SMFO
15	1" RGS	1-#18(SP)
16	1" RGS	1-CAT6
17	1" RGS	2-CAT6, 1-CAT3
29	2" RGS	6-CAT6, 1-#12(CCTV), 1-#14(CCTV)
	2" RGS	3-CAT6, 1-CAT3, 1-#18(SP)
58	2" RGS	6-CAT6, 1-CAT3, 1-#12(CCTV), 1-#18(SP)
75	2" RGS	8-CAT6, 1-CAT3, 1-#14(CCTV)
76	2" RGS	9-CAT6,1-#12(CCTV),1-#14(CCTV), 1-#16(CCTV)
	2" RGS	3-CAT6, 1-CAT3, 1-#18(SP)
77	2" RGS	2-12 SMFO
	2" RGS	9-CAT6,1-#12(CCTV),1-#14(CCTV), 1-#16(CCTV)
	2" RGS	10-CAT6, 1-CAT3, 3-#14(CCTV)
	2" RGS	3-CAT6, 1-CAT3, 4-#18(SP)
89	2" RGS	1-12 SMFO
	1" RGS	2-#18(SP)

* EXISTING CONDUIT BY PROJECT NO. 088-177

CAMERA MOUNTING HEIGHT

CAMERA NAME	MOUNTING HEIGHT (FT)
KS-L-5	11
KS-L-6	10
KS-V-1	PYLON MOUNTED
KS-V-2	VMS POLE
KS-V-3	PYLON MOUNTED
KS-V-4	PYLON MOUNTED

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 10 20
SCALE 1"=10'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..STA-17.dgn

SIGNATURE/BLOCK:
IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

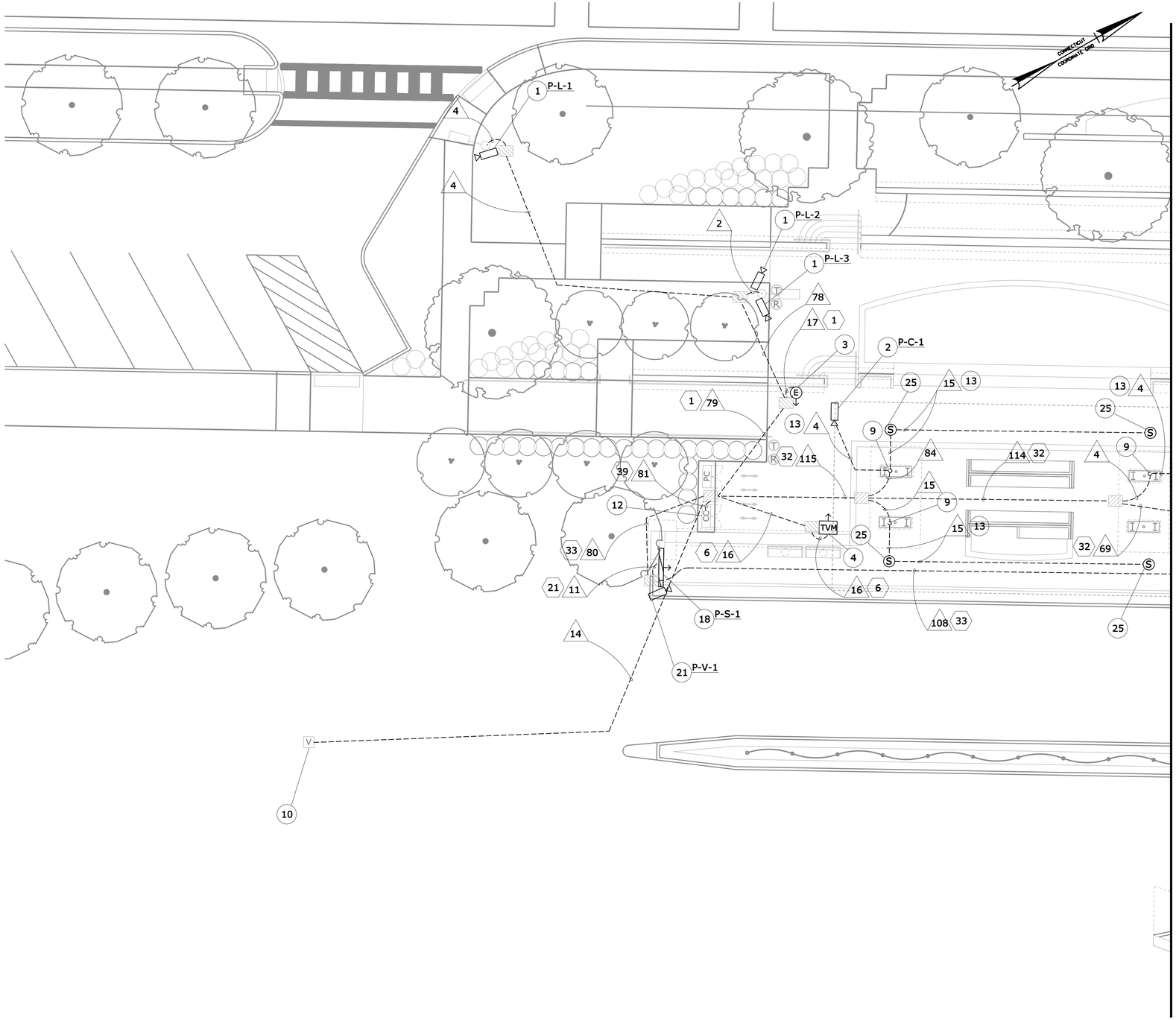
PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: HARTFORD

DRAWING TITLE: KANE STREET STATION

PROJECT NO. 088-179
DRAWING NO. STA-17
SHEET NO. 01.06.017

Border Version: 11/14/08



CONSTRUCTION NOTES *

1. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES ON EXISTING LIGHT POLE PER ITS DETAIL ITD-15.

2. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES UNDER PLATFORM CANOPY PER ITS DETAIL ITD-17.

3. FURNISH AND INSTALL EMERGENCY CALL BOX WITH UPS PER ITS DETAIL ITD-20.

4. FURNISH AND INSTALL TICKET VENDING MACHINE WITH SHELTER, UNLESS LOCATED UNDER CANOPY, PER ITS DETAIL ITD-21.

9. ROUTE CABLING FROM UNDERGROUND CONDUIT TO CANOPY CONDUIT PER ITS DETAIL ITD-18.

10. SEE CORRIDOR COMMUNICATION PLAN ITS-40 FOR DROP FIBER CONNECTION TO DISTRIBUTION FIBER.

12. FURNISH AND INSTALL NEW FIBER PATCH PANEL, GIGABIT ETHERNET SWITCHES, TIS CONTROLLER, PA AMPLIFIER AND OTHER ASSOCIATED EQUIPMENT IN EXISTING COMMUNICATIONS CABINET. TERMINATE 12 SMFO CABLE USING BUFFER TUBE FAN-OUT KIT ON FIBER PATCH PANEL. SEE ITS DETAILS ITD-04 TO ITD-07 AND ITD-22 FOR EQUIPMENT LAYOUT AND CABLING.

13. EXISTING CONDUIT LOCATED IN CANOPY. SEE ITS DETAIL ITD-18 FOR CABLE ROUTING.

18. FURNISH AND INSTALL NEW SINGLE-SIDED VARIABLE MESSAGE SIGN WITH SPEAKER AND ACTUATION DEVICE ON EXISTING PYLON PER ITS DETAIL ITD-19.

21. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES ON EXISTING PYLON PER ITS DETAIL ITD-19.

25. FURNISH AND INSTALL PA SYSTEM SPEAKERS ON VAULTED ARCH CANOPY PER ITS DETAIL ITD-18 AND ITD-20.

* CONSTRUCTION NOTES ARE NOT CONSECUTIVE

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT*	INSTALL CONDUCTORS
2	2" RGS	2-CAT6, 2-#16(CCTV)
4	1" RGS	1-CAT6, 1-#14(CCTV)
11	1" RGS	3-CAT6, 1-#16(CCTV)
14	2" RGS	1-12 SMFO
15	1" RGS	1-#18(SP)
16	1" RGS	1-CAT6
17	1" RGS	2-CAT6, 1-CAT3
69	2" RGS	4-CAT6, 1-CAT3
78	2" RGS	3-CAT6, 1-#14(CCTV), 2-#16(CCTV)
79	2" RGS	5-CAT6,1-CAT3,1-#14(CCTV), 2-#16(CCTV)
80	2" RGS	2-12 SMFO
	2" RGS	3-CAT6, 2-#12(CCTV), 2-#14(CCTV), 1-#16(CCTV)
	2" RGS	6-CAT6, 2-CAT3, 2-#18(SP)
81	2" RGS	3-12 SMFO
	4" RGS	7-CAT6, 2-#12(CCTV), 2-#14(CCTV), 1-#16(CCTV)
	4" RGS	7-CAT6, 3-CAT3, 4-#18(SP)
	4" RGS	7-CAT6, 1-CAT3, 3-#14(CCTV), 2-#16(CCTV)
	3" RGS	SPARE
84	1" RGS	1-CAT6, 1-#14(CCTV), 1-#18(SP)
108	2" RGS	2-12 SMFO
	2" RGS	6-CAT6, 2-CAT3, 2-#12(CCTV), 2-#14(CCTV), 2-#18(SP)
114	2" RGS	5-CAT6, 1-CAT3, 1-#14(CCTV)
115	2" RGS	6-CAT6, 1-CAT3, 2-#14(CCTV), 2-#18(SP)

* EXISTING CONDUIT BY PROJECT NO. 088-177

GENERAL NOTE

1. THE CONTRACTOR SHALL CONFIRM ALL POWER WIRE SIZING AND CIRCUITS ONCE ITS EQUIPMENT HAS BEEN SELECTED.

CAMERA MOUNTING HEIGHT

CAMERA NAME	MOUNTING HEIGHT (FT)
P-C-1	CANOPY
P-L-1	12
P-L-2	14
P-L-3	15
P-V-1	PYLON MOUNTED

CIRCUIT TABLE (SB PLATFORM)

CCT	BKR	LOAD	DEVICES
(1)	20A	125W	ECB
(2)	25A	2000W	TVM
(3)	25A	2000W	TVM
(4)	20A	225W	ECB, TV
(5)	20A	488W	VMS
(6)	20A	135W	ECB, MEDIA CONVERTER

ELECTRICAL NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INSTALL CONDUCTORS
1	1" RGS	2-#12(1), 1-#12(G)
6	1" RGS	2-#10(2), 1-#10(G)
21	1" RGS	2-#12(5), 1-#10(G)
32	2" RGS	2-#8(3), 1-#8(G)
		2-#12(4), 1-#12(G)
33	1" RGS	2-#12(5), 1-#12(G)
		2-#12(6), 1-#12(G)
39	2" RGS	2-#8(3), 1-#8(G)
		2-#12(4), 1-#12(G)
	2" RGS	2-#10(2), 1-#10(G)
	2" RGS	2-#12(5), 1-#12(G)
		2-#12(6), 1-#12(G)
		2-#12(1), 1-#12(G)

* EXISTING CONDUIT BY PROJECT NO. 088-177

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 10 20
SCALE 1"=10'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..STA-18.dgn

SIGNATURE/BLOCK:
IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

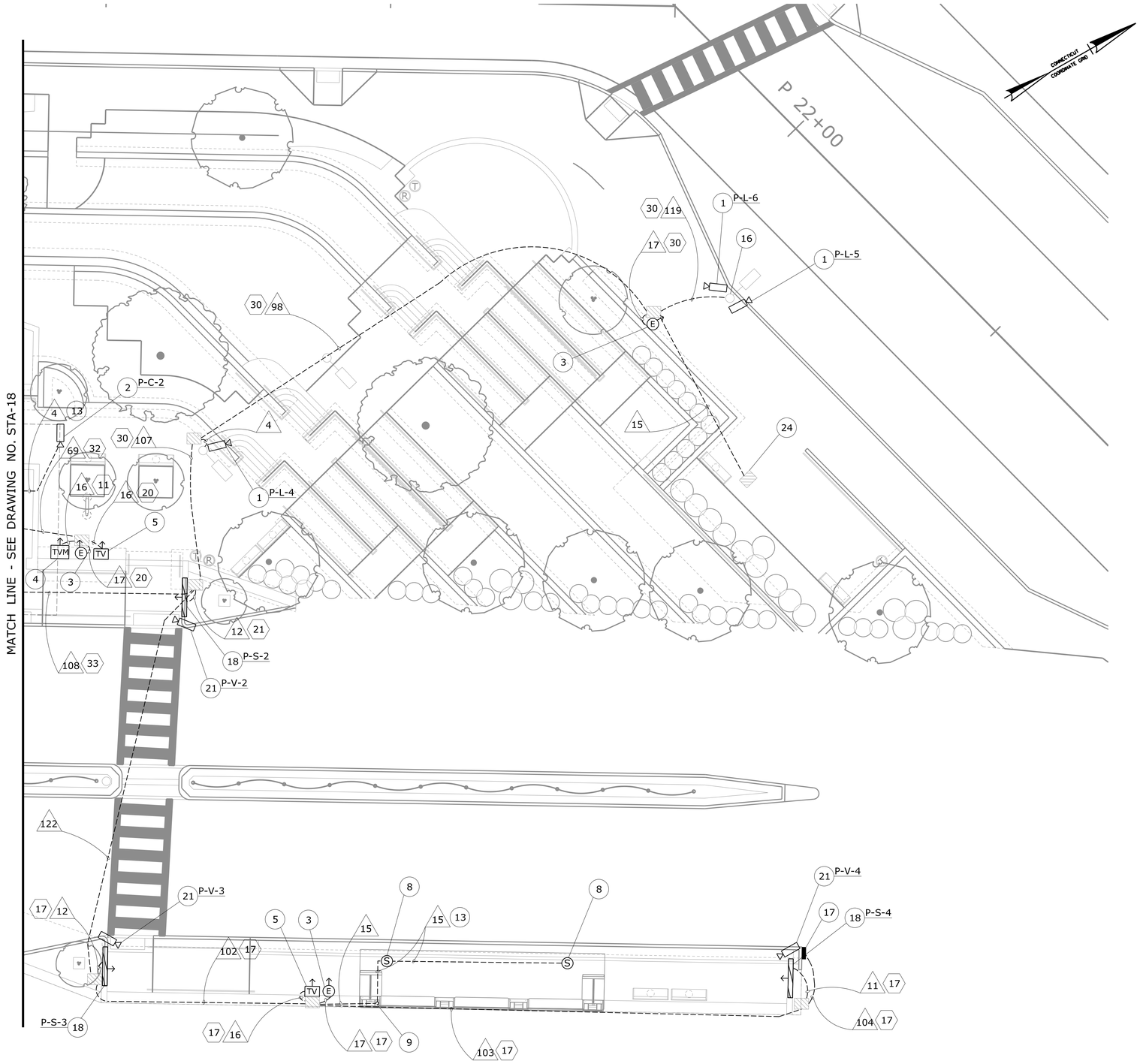
PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: HARTFORD

DRAWING TITLE: PARKVILLE STATION

PROJECT NO. 088-179
DRAWING NO. STA-18
SHEET NO. 01.06.018

Border Version: 11/14/08



CONSTRUCTION NOTES *

1. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES ON EXISTING LIGHT POLE PER ITS DETAIL ITD-15.

2. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES UNDER PLATFORM CANOPY PER ITS DETAIL ITD-17.

3. FURNISH AND INSTALL EMERGENCY CALL BOX WITH UPS PER ITS DETAIL ITD-20.

4. FURNISH AND INSTALL TICKET VENDING MACHINE WITH SHELTER, UNLESS LOCATED UNDER CANOPY, PER ITS DETAIL ITD-21.

5. FURNISH AND INSTALL TICKET VALIDATOR PER ITS DETAIL ITD-21.

8. FURNISH AND INSTALL PA SYSTEM SPEAKERS ON PLATFORM CANOPY PER ITS DETAILS ITD-18 AND 20.

9. ROUTE CABLING FROM UNDERGROUND CONDUIT TO CANOPY CONDUIT PER ITS DETAIL ITD-18.

13. EXISTING CONDUIT LOCATED IN CANOPY. SEE ITS DETAIL ITD-18 FOR CABLE ROUTING.

16. FURNISH AND INSTALL NEW FIELD HARDENED MEDIA CONVERTER IN MEDIA CONVERTER CABINET ON EXISTING POLE PER ITS DETAIL ITD-15. TERMINATE 12 SMFO CABLE USING BUFFER TUBE FAN-OUT KIT DIRECTLY TO THE MEDIA CONVERTER. SEE ITS DETAILS ITD-04 TO ITD-07 FOR EQUIPMENT LAYOUT AND CABLING.

17. FURNISH AND INSTALL NEW FIBER PATCH PANEL, GIGABIT ETHERNET SWITCHES AND OTHER ASSOCIATED EQUIPMENT IN EXISTING SECONDARY COMMUNICATIONS CABINET. TERMINATE 12 SMFO CABLE USING BUFFER TUBE FAN-OUT KIT ON FIBER PATCH PANEL. SEE ITS DETAILS ITD-04 TO ITD-07 FOR EQUIPMENT LAYOUT AND CABLING.

18. FURNISH AND INSTALL NEW SINGLE-SIDED VARIABLE MESSAGE SIGN WITH SPEAKER AND ACTUATION DEVICE ON EXISTING PYLON PER ITS DETAIL ITD-19.

21. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES ON EXISTING PYLON PER ITS DETAIL ITD-19.

24. TERMINATE AND COIL 100' OF SPEAKER WIRE IN EXISTING HANDHOLE FOR CONNECTION TO FUTURE SPEAKERS.

* CONSTRUCTION NOTES ARE NOT CONSECUTIVE

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT*	INSTALL CONDUCTORS
4	1" RGS	1-CAT6, 1-#14(CCTV)
11	1" RGS	3-CAT6, 1-#16(CCTV)
12	2" RGS	3-CAT6, 1-#14(CCTV)
15	1" RGS	1-#18(SP)
16	1" RGS	1-CAT6
17	1" RGS	2-CAT6, 1-CAT3
69	2" RGS	4-CAT6, 1-CAT3
98	2" RGS	1-12 SMFO
	2" RGS	2-#12(CCTV), 2-CAT6, 1-CAT3, 1-#18(SP)
102	2" RGS	1-12 SMFO
	2" RGS	3-CAT6, 1-CAT3, 1-#14(CCTV), 1-#18(SP)
103	2" RGS	1-12 SMFO
	2" RGS	6-CAT6, 1-#14(CCTV)
104	2" RGS	1-12 SMFO
	2" RGS	9-CAT6, 1-#14(CCTV), 1-#16(CCTV)
107	2" RGS	1-12 SMFO
	2" RGS	3-CAT6, 1-CAT3, 2-#12(CCTV), 1-#14(CCTV), 1-#18(SP)
108	2" RGS	2-12 SMFO
	2" RGS	6-CAT6, 2-CAT3, 2-#12(CCTV), 2-#14(CCTV), 2-#18(SP)
119	2" RGS	1-12 SMFO
	1" RGS	2-#12(CCTV)
122	2" RGS	1-12 SMFO
	1" RGS	1-CAT3, 1-#18(SP)

* EXISTING CONDUIT BY PROJECT NO. 088-177

CAMERA MOUNTING HEIGHT

CAMERA NAME	MOUNTING HEIGHT (FT)
P-C-2	CANOPY
P-L-4	10
P-L-5	10
P-L-6	12
P-V-2	PYLON MOUNTED
P-V-3	PYLON MOUNTED
P-V-4	PYLON MOUNTED

CIRCUIT TABLE (SB PLATFORM)

CCT	BKR	LOAD	DEVICES
(1)	20A	125W	ECB
(2)	25A	2000W	TVM
(3)	25A	2000W	TVM
(4)	20A	225W	ECB, TV
(5)	20A	488W	VMS
(6)	20A	135W	ECB, MEDIA CONVERTER

CIRCUIT TABLE (NB PLATFORM)

CCT	BKR	LOAD	DEVICES
(1)	20A	713W	ECB, TV, VMS

ELECTRICAL NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INSTALL CONDUCTORS
11	1" RGS	2-#8(3), 1-#8(G)
17	1" RGS	2-#10(1), 1-#10(G)
20	1" RGS	2-#12(4), 1-#12(G)
21	1" RGS	2-#12(5), 1-#10(G)
30	1" RGS	2-#12(6), 1-#12(G)
32	2" RGS	2-#8(3), 1-#8(G)
		2-#12(4), 1-#12(G)
33	1" RGS	2-#12(5), 1-#12(G)
		2-#12(6), 1-#12(G)

* EXISTING CONDUIT BY PROJECT NO. 088-177

GENERAL NOTE

1. THE CONTRACTOR SHALL CONFIRM ALL POWER WIRE SIZING AND CIRCUITS ONCE ITS EQUIPMENT HAS BEEN SELECTED.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-		-	
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: $DATE$

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 10 20
SCALE 1"=10'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: $FILE$

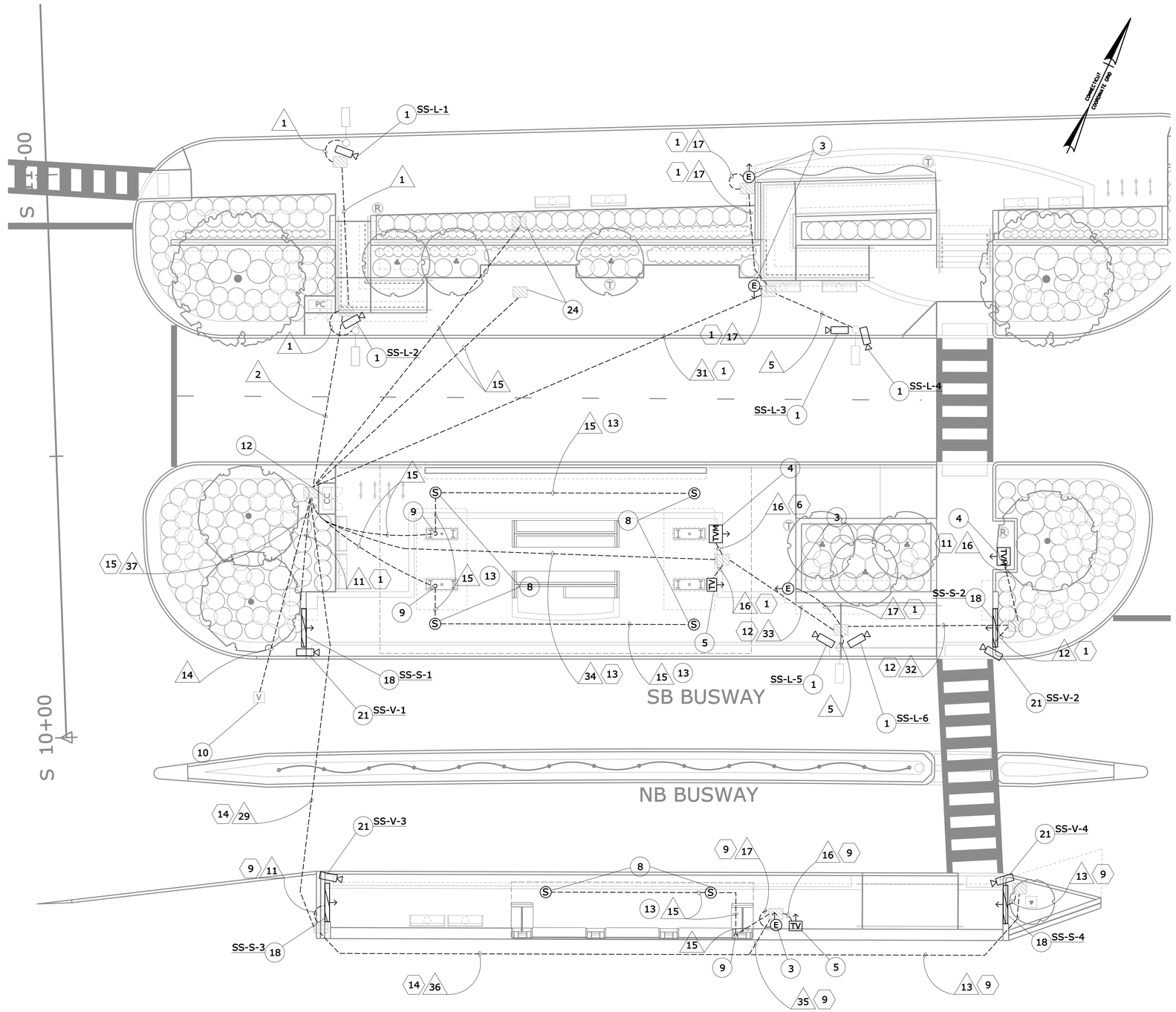
SIGNATURE/BLOCK:
IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CT*fastrak*
ITS & COMMUNICATIONS SYSTEMS

TOWN: HARTFORD
DRAWING TITLE: PARKVILLE STATION

PROJECT NO. 088-179
DRAWING NO. STA-19
SHEET NO. 01.06.019

Border Version: 11/14/08



CONSTRUCTION NOTES *

1. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES ON EXISTING LIGHT POLE PER ITS DETAIL ITD-15.

3. FURNISH AND INSTALL EMERGENCY CALL BOX WITH UPS PER ITS DETAIL ITD-20.

4. FURNISH AND INSTALL TICKET VENDING MACHINE WITH SHELTER, UNLESS LOCATED UNDER CANOPY, PER ITS DETAIL ITD-21.

5. FURNISH AND INSTALL TICKET VALIDATOR PER ITS DETAIL ITD-21.

8. FURNISH AND INSTALL PA SYSTEM SPEAKERS ON PLATFORM CANOPY PER ITS DETAILS ITD-18 AND 20.

9. ROUTE CABLING FROM UNDERGROUND CONDUIT TO CANOPY CONDUIT PER ITS DETAIL ITD-18.

10. SEE CORRIDOR COMMUNICATION PLAN ITS-44 FOR DROP FIBER CONNECTION TO DISTRIBUTION FIBER.

12. FURNISH AND INSTALL NEW FIBER PATCH PANEL, GIGABIT ETHERNET SWITCHES, TIS CONTROLLER, PA AMPLIFIER AND OTHER ASSOCIATED EQUIPMENT IN EXISTING COMMUNICATIONS CABINET. TERMINATE 12 SMFO CABLE USING BUFFER TUBE FAN-OUT KIT ON FIBER PATCH PANEL. SEE ITS DETAILS ITD-04 TO ITD-07 AND ITD-22 FOR EQUIPMENT LAYOUT AND CABLING.

13. EXISTING CONDUIT LOCATED IN CANOPY. SEE ITS DETAIL ITD-18 FOR CABLE ROUTING.

18. FURNISH AND INSTALL NEW SINGLE-SIDED VARIABLE MESSAGE SIGN WITH SPEAKER AND ACTUATION DEVICE ON EXISTING PYLON PER ITS DETAIL ITD-19.

21. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES ON EXISTING PYLON PER ITS DETAIL ITD-19.

24. TERMINATE AND COIL 100' OF SPEAKER WIRE IN EXISTING HANDHOLE FOR CONNECTION TO FUTURE SPEAKERS.

* CONSTRUCTION NOTES ARE NOT CONSECUTIVE

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT*	INSTALL CONDUCTORS
1	1" RGS	1-CAT6, 1-#16(CCTV)
2	2" RGS	2-CAT6, 2-#16(CCTV)
5	2" RGS	2-CAT6, 2-#14(CCTV)
11	1" RGS	3-CAT6, 1-#16(CCTV)
12	2" RGS	3-CAT6, 1-#14(CCTV)
13	2" RGS	3-CAT6, 1-#12(CCTV)
14	2" RGS	1-12 SMFO
15	1" RGS	1-#18(SP)
16	1" RGS	1-CAT6
17	1" RGS	2-CAT6, 1-CAT3
29	2" RGS	6-CAT6, 1-#12(CCTV), 1-#14(CCTV)
	2" RGS	3-CAT6, 1-CAT3, 1-#18(SP)
31	2" RGS	6-CAT6, 2-CAT3, 2-#14(CCTV)
32	2" RGS	4-CAT6, 1-#14(CCTV)
33	2" RGS	6-CAT6, 3-#14(CCTV)
	1" RGS	2-CAT6, 1-CAT3
34	2" RGS	6-CAT6, 3-#14(CCTV)
	2" RGS	4-CAT6, 1-CAT3
35	2" RGS	3-CAT6, 1-CAT3, 1-#18(SP)
36	2" RGS	3-CAT6, 1-#12(CCTV)
	2" RGS	3-CAT6, 1-CAT3, 1-#18(SP)
37	2" RGS	1-12 SMFO
	4" RGS	9-CAT6, 5-#14(CCTV), 2-#16(CCTV)
	4" RGS	12-CAT6, 4-CAT3, 5-#18(SP)
	4" RGS	9-CAT6,1-#12(CCTV),1-#14(CCTV), 1-#16(CCTV)
	3" RGS	SPARE

* EXISTING CONDUIT BY PROJECT NO. 088-177

CAMERA MOUNTING HEIGHT

CAMERA NAME	MOUNTING HEIGHT (FT)
SS-L-1	10
SS-L-2	10
SS-L-3	14
SS-L-4	10
SS-L-5	10
SS-L-6	11
SS-V-1	PYLON MOUNTED
SS-V-2	PYLON MOUNTED
SS-V-3	PYLON MOUNTED
SS-V-4	PYLON MOUNTED

ELECTRICAL NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INSTALL CONDUCTORS
1	1" RGS	2-#12(1), 1-#12(G)
6	1" RGS	2-#10(2), 1-#10(G)
9	1" RGS	2-#10(4), 1-#10(G)
11	1" RGS	2-#8(3), 1-#8(G)
12	2" RGS	2-#12(1), 1-#12(G)
		2-#8(3), 1-#8(G)
13	2" RGS	2-#12(1), 1-#12(G)
		2-#8(3), 1-#8(G)
	1" RGS	2-#10(2), 1-#10(G)
14	1" RGS	2-#10(4), 1-#10(G)
	1" RGS	2-#10(4), 1-#10(G)
15	2" RGS	4-#12(1), 2-#12(G)
		2-#10(4), 1-#10(G)
	2" RGS	2-#12(1), 1-#12(G)
		2-#8(3), 1-#8(G)
		2-#10(2), 1-#10(G)

* EXISTING CONDUIT BY PROJECT NO. 088-177

CIRCUIT TABLE

CCT	BKR	LOAD	DEVICES
(1)	20A	963W	VMS, ECB, TV
(2)	25A	2000W	TVM
(3)	25A	2000W	TVM
(4)	20A	713W	VMS, ECB, TV

GENERAL NOTE

1. THE CONTRACTOR SHALL CONFIRM ALL POWER WIRE SIZING AND CIRCUITS ONCE ITS EQUIPMENT HAS BEEN SELECTED.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 10 20
SCALE 1"=10'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..STA-20.dgn

SIGNATURE/BLOCK:
IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

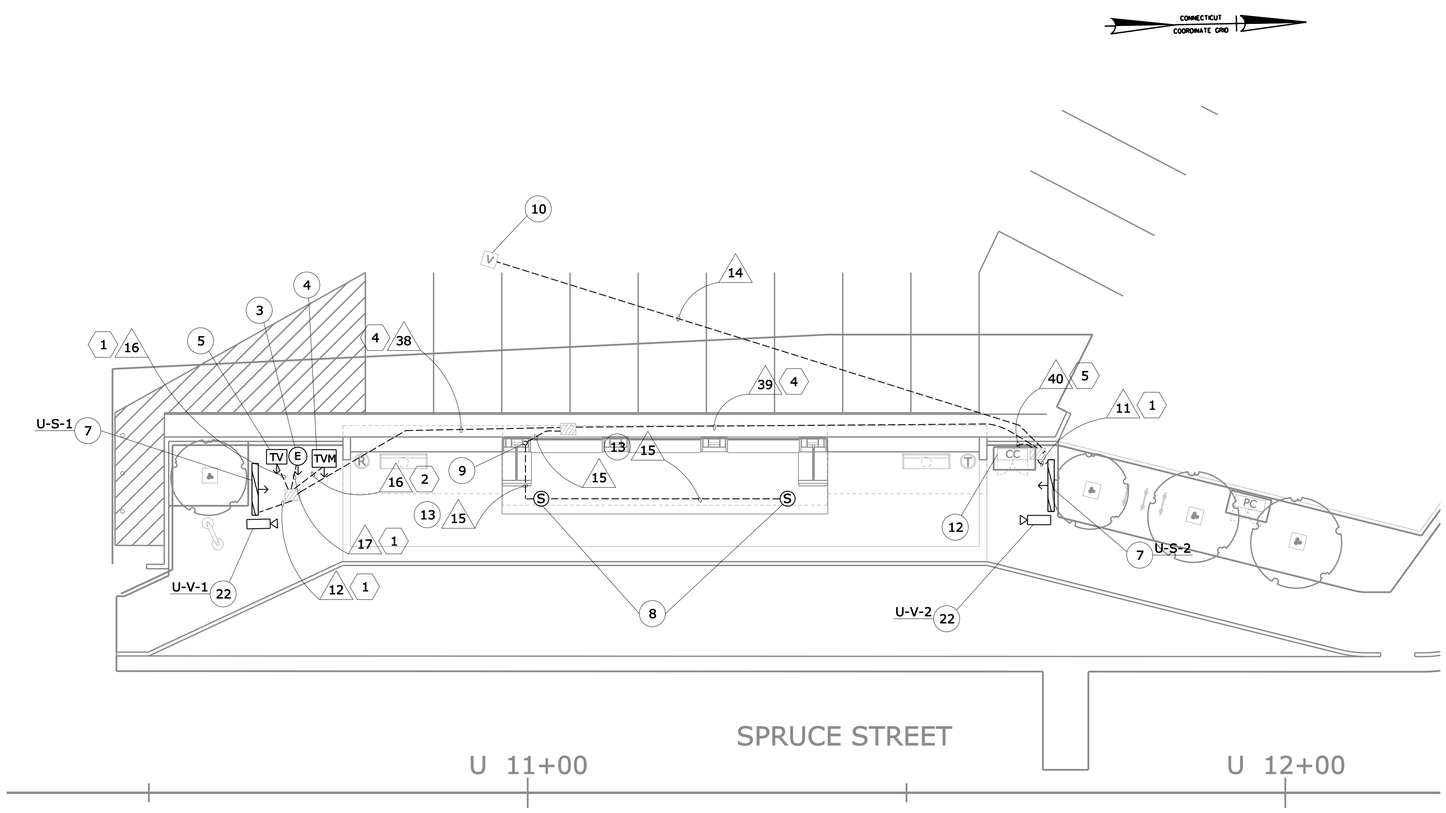
PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: HARTFORD

DRAWING TITLE: SIGOURNEY STREET STATION

PROJECT NO. 088-179
DRAWING NO. STA-20
SHEET NO. 01.06.020

Border Version: 11/14/08



CONSTRUCTION NOTES *

3. FURNISH AND INSTALL EMERGENCY CALL BOX WITH UPS PER ITS DETAIL ITD-20.

4. FURNISH AND INSTALL TICKET VENDING MACHINE WITH SHELTER, UNLESS LOCATED UNDER CANOPY, PER ITS DETAIL ITD-21.

5. FURNISH AND INSTALL TICKET VALIDATOR PER ITS DETAIL ITD-21.

7. FURNISH AND INSTALL SINGLE-SIDED VARIABLE MESSAGE SIGN WITH SPEAKER AND ACTUATION DEVICE ON POLE PER ITS DETAIL ITD-16.

8. FURNISH AND INSTALL PA SYSTEM SPEAKERS ON PLATFORM CANOPY PER ITS DETAILS ITD-18 AND 20.

9. ROUTE CABLING FROM UNDERGROUND CONDUIT TO CANOPY CONDUIT PER ITS DETAIL ITD-18.

10. SEE CORRIDOR COMMUNICATION PLAN ITS-48 FOR DROP FIBER CONNECTION TO DISTRIBUTION FIBER.

12. FURNISH AND INSTALL NEW FIBER PATCH PANEL, GIGABIT ETHERNET SWITCHES, TIS CONTROLLER, PA AMPLIFIER AND OTHER ASSOCIATED EQUIPMENT IN EXISTING COMMUNICATIONS CABINET. TERMINATE 12 SMFO CABLE USING BUFFER TUBE FAN-OUT KIT ON FIBER PATCH PANEL. SEE ITS DETAILS ITD-04 TO ITD-07 AND ITD-22 FOR EQUIPMENT LAYOUT AND CABLING.

13. EXISTING CONDUIT LOCATED IN CANOPY. SEE ITS DETAIL ITD-18 FOR CABLE ROUTING.

22. FURNISH AND INSTALL NEW CCTV CAMERA AND CABLES ON VMS POLE PER ITS DETAIL ITD-16.

* CONSTRUCTION NOTES ARE NOT CONSECUTIVE

WIRE NOTE SCHEDULE

RUN#	EXISTING CONDUIT*	INSTALL CONDUCTORS
11	1" RGS	3-CAT6, 1-#16(CCTV)
12	2" RGS	3-CAT6, 1-#14(CCTV)
14	2" RGS	1-12 SMFO
15	1" RGS	1-#18(SP)
16	1" RGS	1-CAT6
17	1" RGS	2-CAT6, 1-CAT3
38	2" RGS	7-CAT6, 1-CAT3, 1-#14(CCTV)
39	2" RGS	7-CAT6, 1-CAT3, 1-#14(CCTV), 1-#18(SP)
40	1" RGS	1-12 SMFO
	2" RGS	10-CAT6, 1-CAT3, 1-#14(CCTV), 1-#16(CCTV), 1-#18(SP)

* EXISTING CONDUIT BY PROJECT NO. 088-177

ELECTRICAL NOTE SCHEDULE

RUN#	EXISTING CONDUIT *	INSTALL CONDUCTORS
1	1" RGS	2-#12(1), 1-#12(G)
2	1" RGS	2-#8(2), 1-#8(G)
4	2" RGS	2-#12(1), 1-#12(G)
		2-#8(2), 1-#8(G)
5	2" RGS	2-#12(1), 1-#12(G)
	2" RGS	2-#12(1), 1-#12(G)
		2-#8(2), 1-#8(G)

* EXISTING CONDUIT BY PROJECT NO. 088-177

CIRCUIT TABLE

CCT	BKR	LOAD	DEVICES
(1)	20A	713W	VMS, ECB, TV
(2)	25A	2000W	TVM

CAMERA MOUNTING HEIGHT

CAMERA NAME	MOUNTING HEIGHT (FT)
U-V-1	VMS POLE
U-V-2	VMS POLE

GENERAL NOTE

1. THE CONTRACTOR SHALL CONFIRM ALL POWER WIRE SIZING AND CIRCUITS ONCE ITS EQUIPMENT HAS BEEN SELECTED.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP
SCALE IN FEET 0 10 20
SCALE 1"=10'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..PLN..088..179..STA-21.dgn

SIGNATURE/BLOCK:
IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

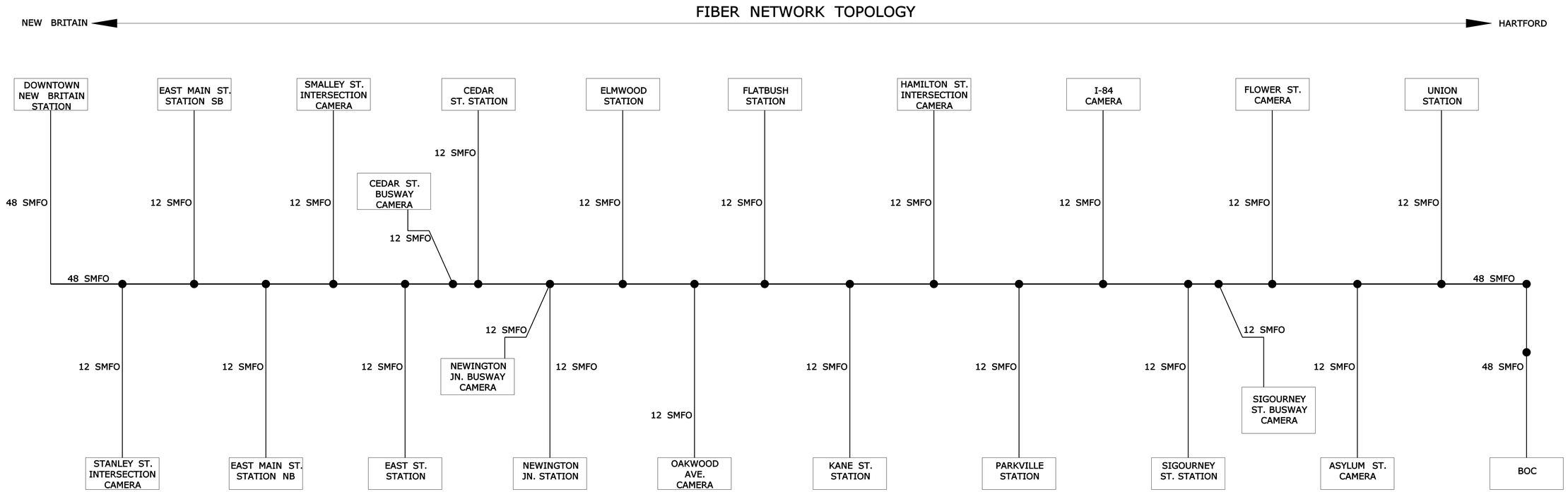
TOWN: HARTFORD

DRAWING TITLE: UNION STATION SB PLATFORM

PROJECT NO. 088-179
DRAWING NO. STA-21
SHEET NO. 01.06.021

Border Version: 11/14/08

FIBER NETWORK TOPOLOGY



LEGEND

SMFO	SINGLE-MODE FIBER OPTIC CABLE
———	DROP CABLE (12 SMFO)
———	DISTRIBUTION CABLE 48 (SMFO)
●	FIBER SPLICE POINT

NOTES

1. 48 SMFO CABLE FOLLOWS A COLLAPSED RING TOPOLOGY WITH 3 DIFFERENT RINGS: 2 FOR VIDEO CAMERAS AND 1 FOR ALL OTHER EQUIPMENT.
2. REFER TO SHEET ITD-8 FOR TYPICAL FIBER SPLICE DIAGRAM.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..DET..088..179..ITD-01.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

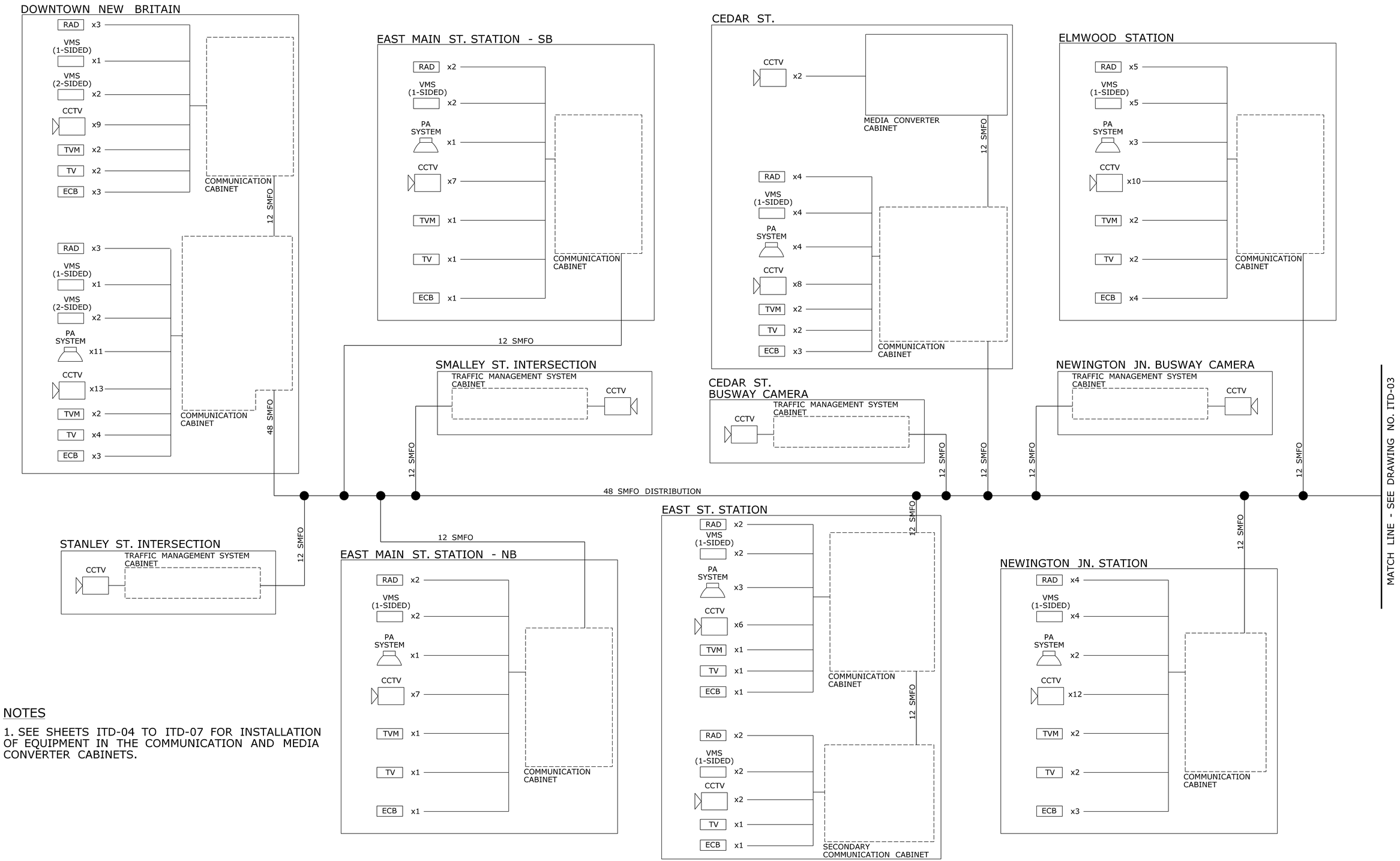
PROJECT TITLE: CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN TO HARTFORD

DRAWING TITLE: FIBER NETWORK TOPOLOGY

PROJECT NO. 088-179
DRAWING NO. ITD-01
SHEET NO. 01.07.001

Border Version: 10/19/07



NOTES

1. SEE SHEETS ITD-04 TO ITD-07 FOR INSTALLATION OF EQUIPMENT IN THE COMMUNICATION AND MEDIA CONVERTER CABINETS.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: $DATE$

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: $FILEA$

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

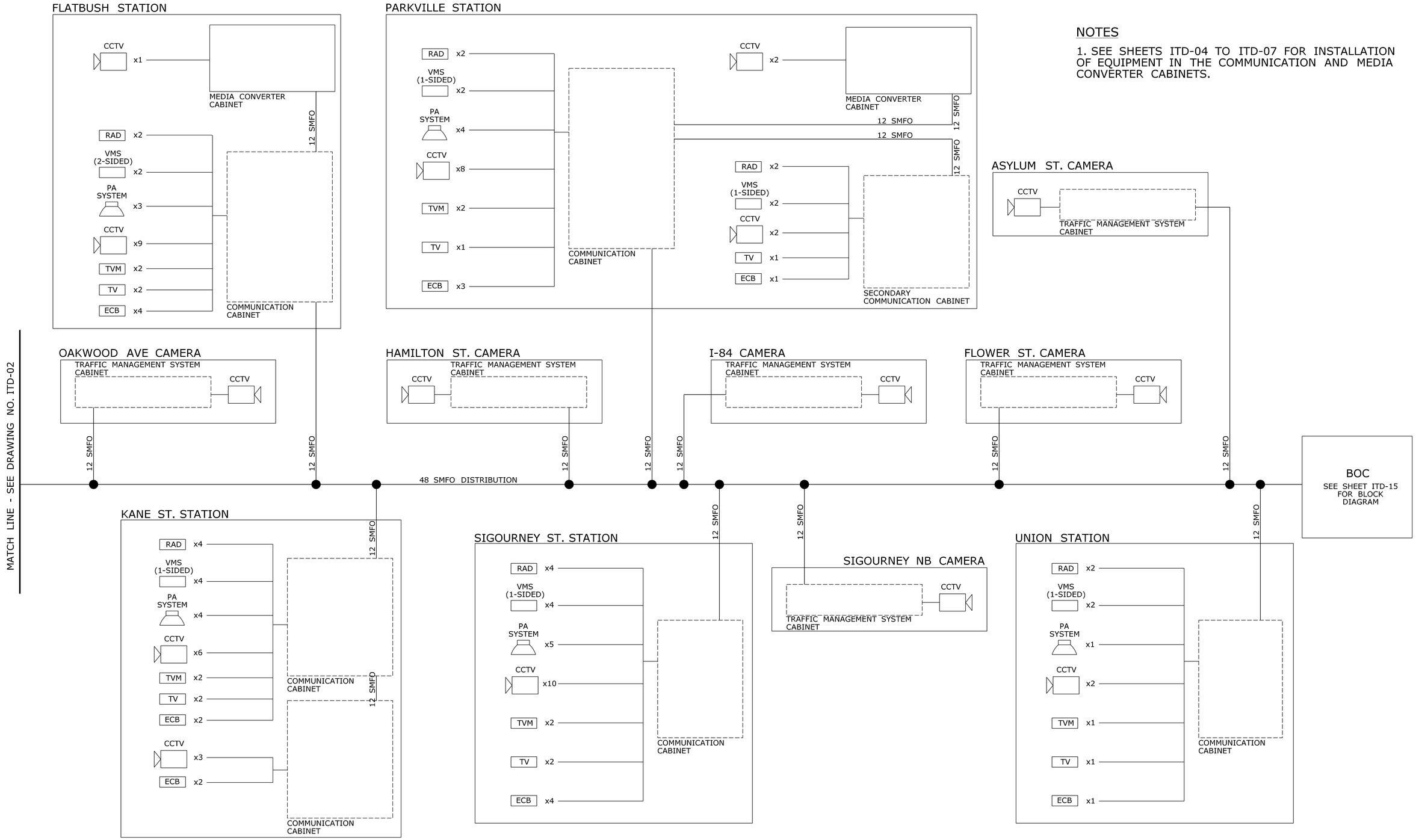
PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN TO HARTFORD

DRAWING TITLE: STATION BLOCK DIAGRAM

PROJECT NO. 088-179
DRAWING NO. ITD-02
SHEET NO. 01.08.001

Border Version: 10/19/07



NOTES

1. SEE SHEETS ITD-04 TO ITD-07 FOR INSTALLATION OF EQUIPMENT IN THE COMMUNICATION AND MEDIA CONVERTER CABINETS.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: $DATE$

DESIGNER/DRAFTER: LM/SM

CHECKED BY: CHP

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: $FILEA$

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN TO HARTFORD

DRAWING TITLE: STATION BLOCK DIAGRAM

PROJECT NO. 088-179

DRAWING NO. ITD-03

SHEET NO. 01.08.002

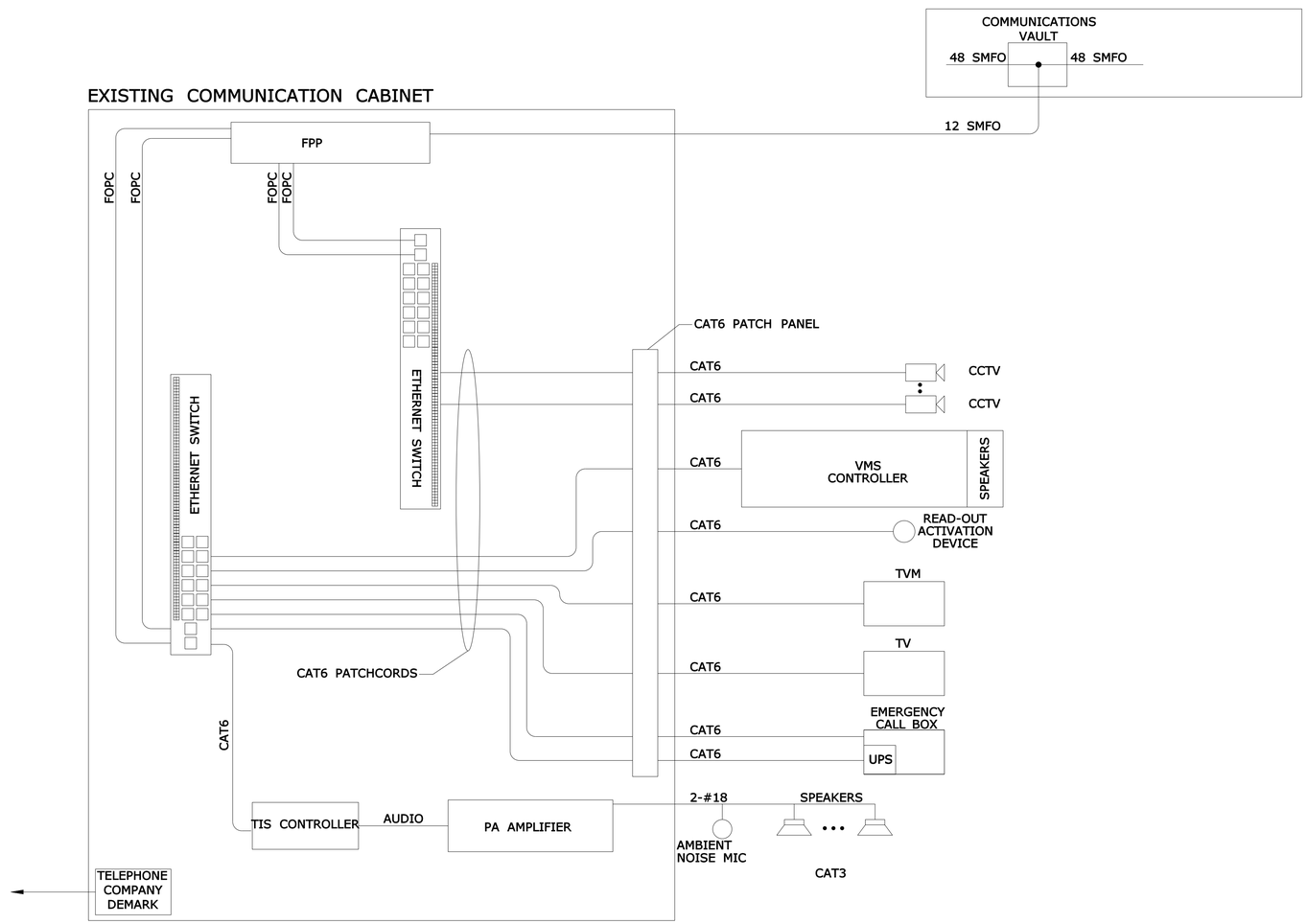
Border Version: 10/19/07

NOTES

1. THE CONTRACTOR SHALL PROVIDE THE QUANTITY AND TYPES OF ETHERNET SWITCHES AT EACH LOCATION NECESSARY TO SUPPORT THE PROPOSED EQUIPMENT QUANTITIES.

2. REFER TO SHEET ITD-18 FOR TYPICAL FIBER SPLICE DIAGRAM.

3. THE CONTRACTOR SHALL PROVIDE DETAILED NETWORK TOPOLOGY FOR EACH STATION AS PART OF THE REQUIRED DESIGN DOCUMENTATION.



* SEE STATION DRAWINGS FOR PLATFORM EQUIPMENT QUANTITIES

EXISTING COMMUNICATIONS CABINET - CABINET EQUIPMENT
E MAIN ST., NEWINGTON, SIGOURNEY, AND UNION STATIONS

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..DET..088..179..ITD-04.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN TO HARTFORD

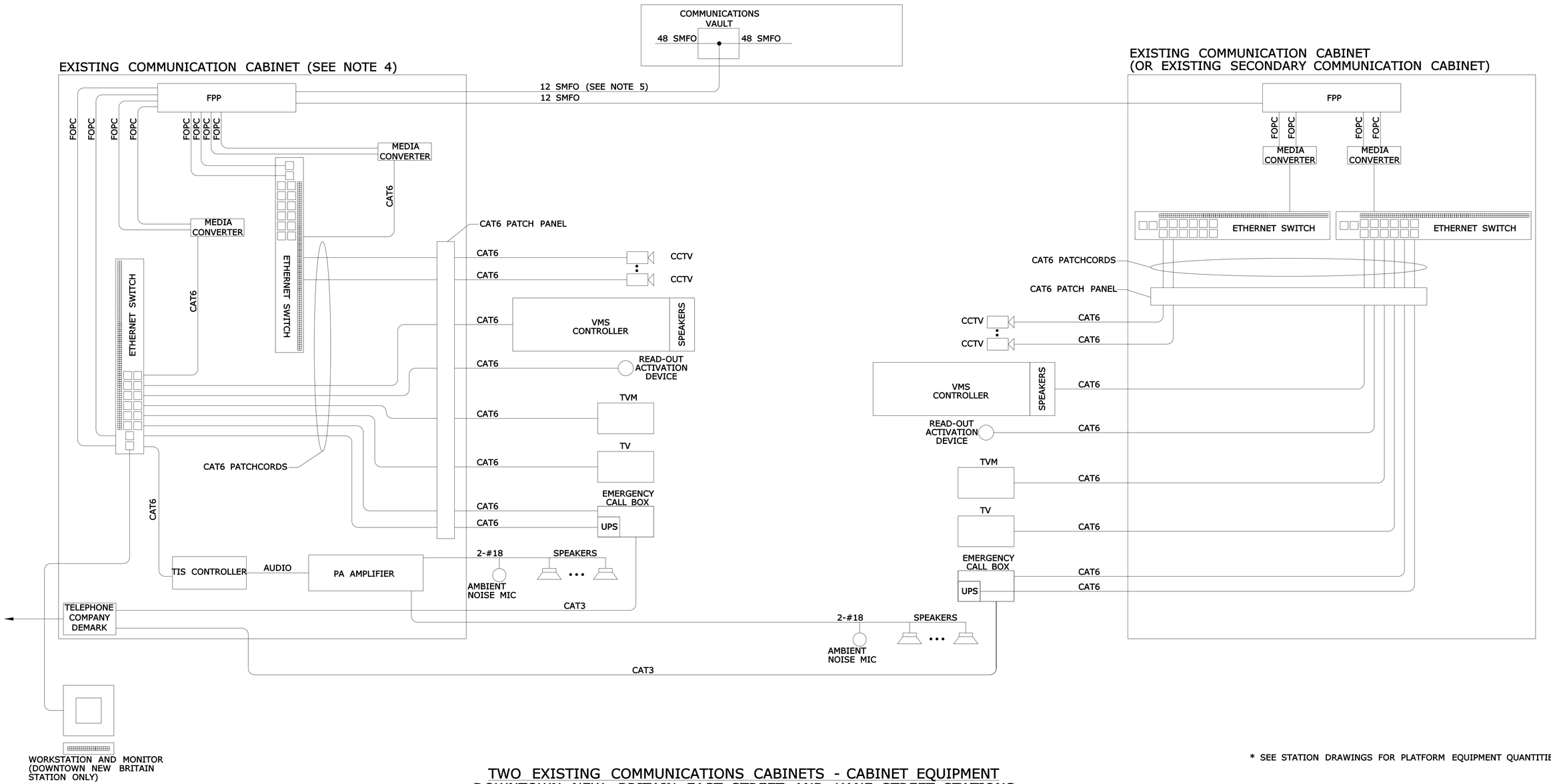
DRAWING TITLE: STATION NETWORK TOPOLOGY

PROJECT NO. 088-179
DRAWING NO. ITD-04
SHEET NO. 01.09.001

Border Version: 10/19/07

NOTES

1. THE CONTRACTOR SHALL PROVIDE THE QUANTITY AND TYPES OF ETHERNET SWITCHES AT EACH LOCATION NECESSARY TO SUPPORT THE PROPOSED EQUIPMENT QUANTITIES.
2. REFER TO SHEET ITD-18 FOR TYPICAL FIBER SPLICE DIAGRAM.
3. THE CONTRACTOR SHALL PROVIDE DETAILED NETWORK TOPOLOGY FOR EACH STATION AS PART OF THE REQUIRED DESIGN DOCUMENTATION.
4. AT DOWNTOWN NEW BRITAIN STATION EQUIPMENT IS INSTALLED IN A COMMUNICATION RACK IN THE SUPERVISOR'S OFFICE.
5. AT DOWNTOWN NEW BRITAIN, A 48 SMFO DISTRIBUTION CABLE IS INSTALLED FROM THE SUPERVISOR'S OFFICE TO THE COMMUNICATIONS VAULT.



* SEE STATION DRAWINGS FOR PLATFORM EQUIPMENT QUANTITIES

TWO EXISTING COMMUNICATIONS CABINETS - CABINET EQUIPMENT
DOWNTOWN NEW BRITAIN, EAST STREET, AND KANE STREET STATIONS

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_DET_088_179_ITD-05.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE: CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN TO HARTFORD

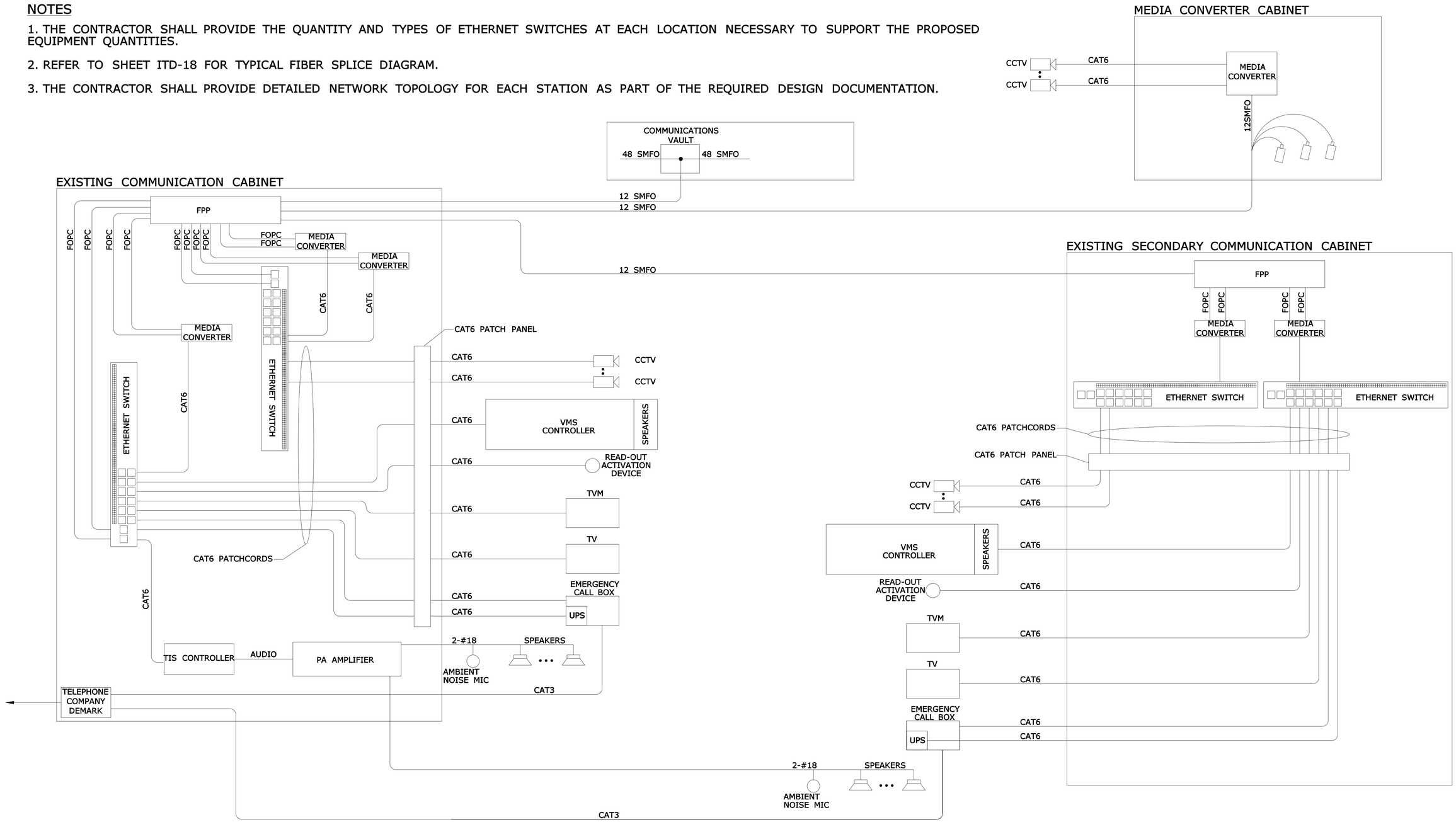
DRAWING TITLE: STATION NETWORK TOPOLOGY

PROJECT NO. 088-179
DRAWING NO. ITD-05
SHEET NO. 01.09.002

Border Version: 10/19/07

NOTES

1. THE CONTRACTOR SHALL PROVIDE THE QUANTITY AND TYPES OF ETHERNET SWITCHES AT EACH LOCATION NECESSARY TO SUPPORT THE PROPOSED EQUIPMENT QUANTITIES.
2. REFER TO SHEET ITD-18 FOR TYPICAL FIBER SPLICE DIAGRAM.
3. THE CONTRACTOR SHALL PROVIDE DETAILED NETWORK TOPOLOGY FOR EACH STATION AS PART OF THE REQUIRED DESIGN DOCUMENTATION.



* SEE STATION DRAWINGS FOR PLATFORM EQUIPMENT QUANTITIES

EXISTING COMMUNICATION, SECONDARY AND MEDIA CONVERTER CABINETS - CABINET EQUIPMENT
PARKVILLE STATION

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..DET..088..179..ITD-06.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN TO HARTFORD

DRAWING TITLE: STATION NETWORK TOPOLOGY

PROJECT NO. 088-179
DRAWING NO. ITD-06
SHEET NO. 01.09.003

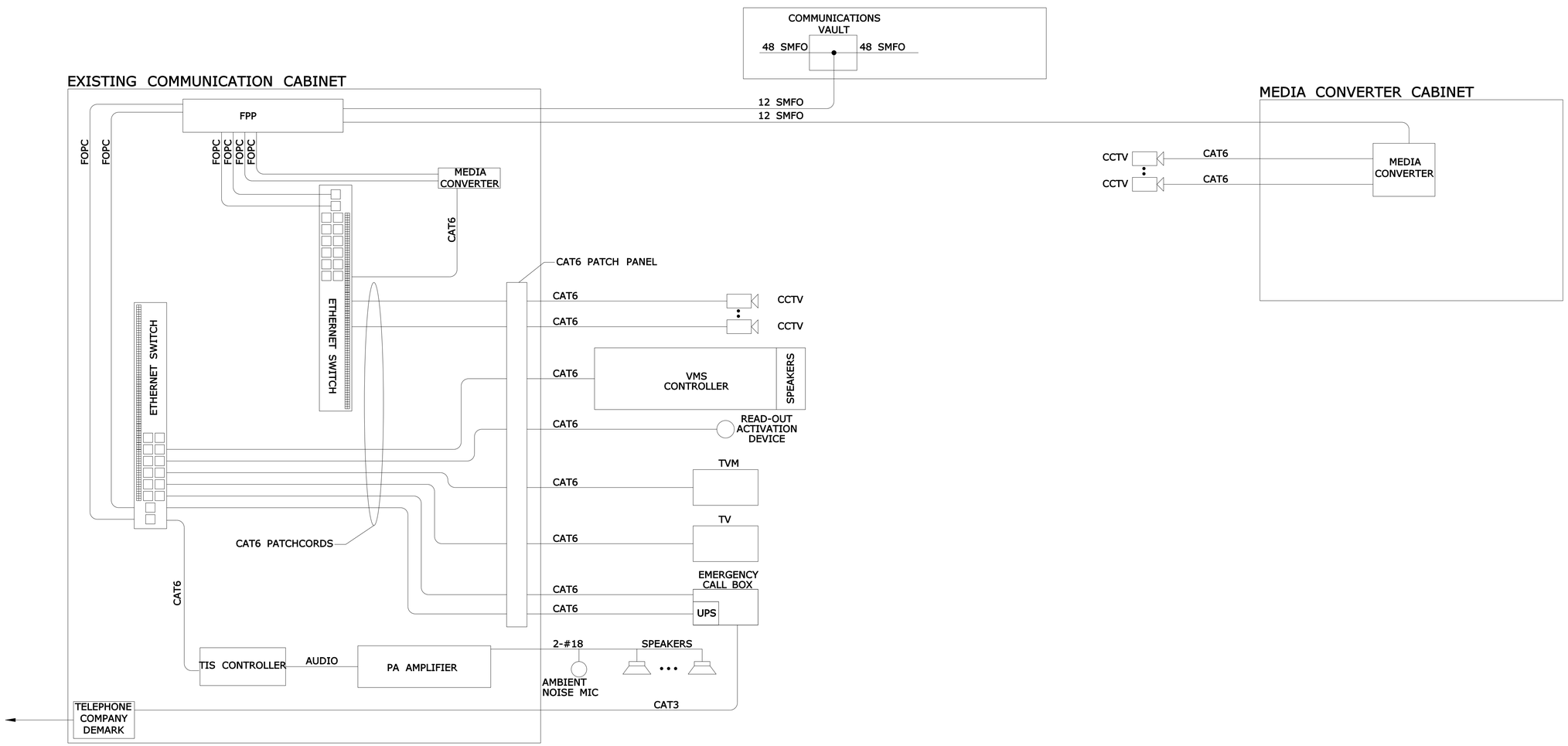
Border Version: 10/19/07

NOTES

1. THE CONTRACTOR SHALL PROVIDE THE QUANTITY AND TYPES OF ETHERNET SWITCHES AT EACH LOCATION NECESSARY TO SUPPORT THE PROPOSED EQUIPMENT QUANTITIES.

2. REFER TO SHEET ITD-18 FOR TYPICAL FIBER SPLICE DIAGRAM.

3. THE CONTRACTOR SHALL PROVIDE DETAILED NETWORK TOPOLOGY FOR EACH STATION AS PART OF THE REQUIRED DESIGN DOCUMENTATION.



EXISTING COMMUNICATION AND MEDIA CONVERTER CABINETS
CEDAR AND FLATBUSH STATIONS

* SEE STATION DRAWINGS FOR PLATFORM EQUIPMENT QUANTITIES

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_DET_088_179_ITD-07.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE: CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN TO HARTFORD

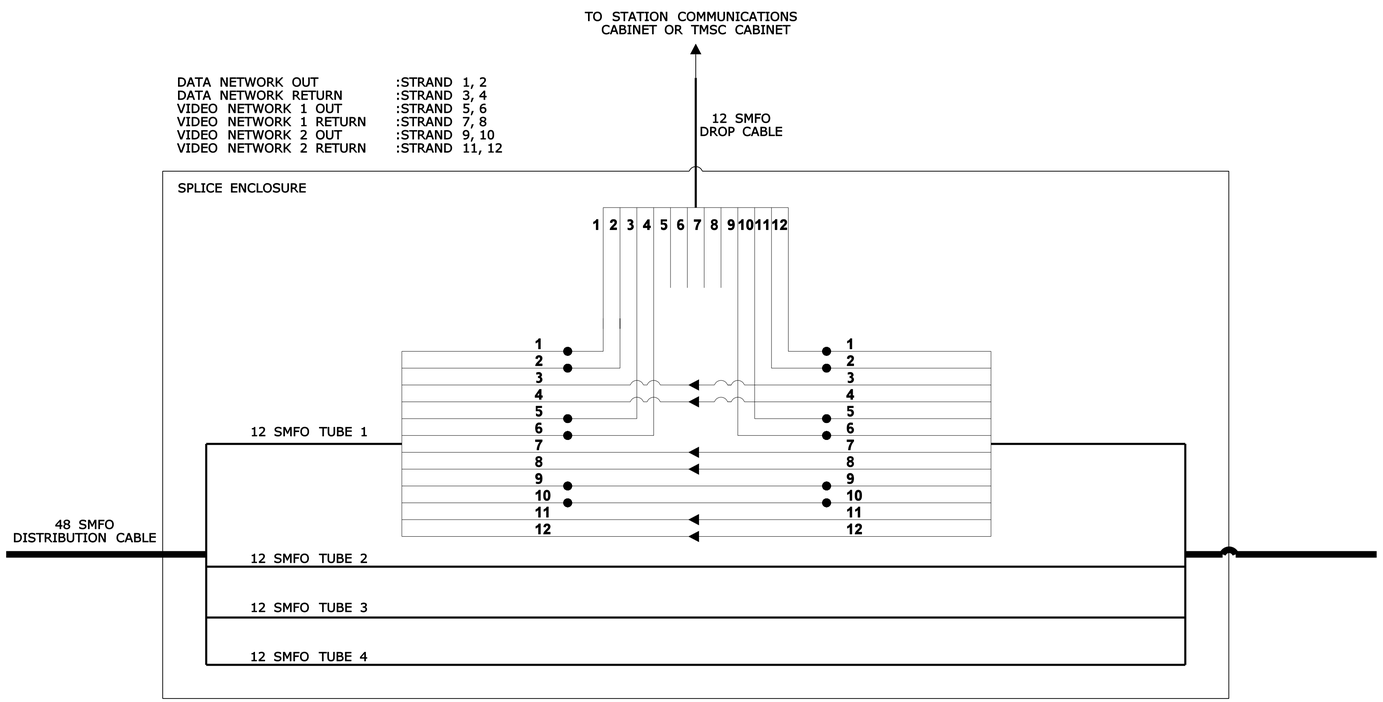
DRAWING TITLE: STATION NETWORK TOPOLOGY

PROJECT NO. 088-179
DRAWING NO. ITD-07
SHEET NO. 01.09.004

Border Version: 10/19/07

CONSTRUCTION NOTES

1. TYPICAL FIBER SPLICE DIAGRAM PROVIDED FOR INFORMATION ONLY. CONTRACTOR TO PROPOSE DETAILED FIBER OPTIC NETWORK ARCHITECTURE AND SPLICING INFO FOR EACH SPLICE LOCATION TO ENGINEER FOR APPROVAL.



1 **FIBER SPLICE DIAGRAM AT STATIONS (TYP.)**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..DET..088..179..ITD-08.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

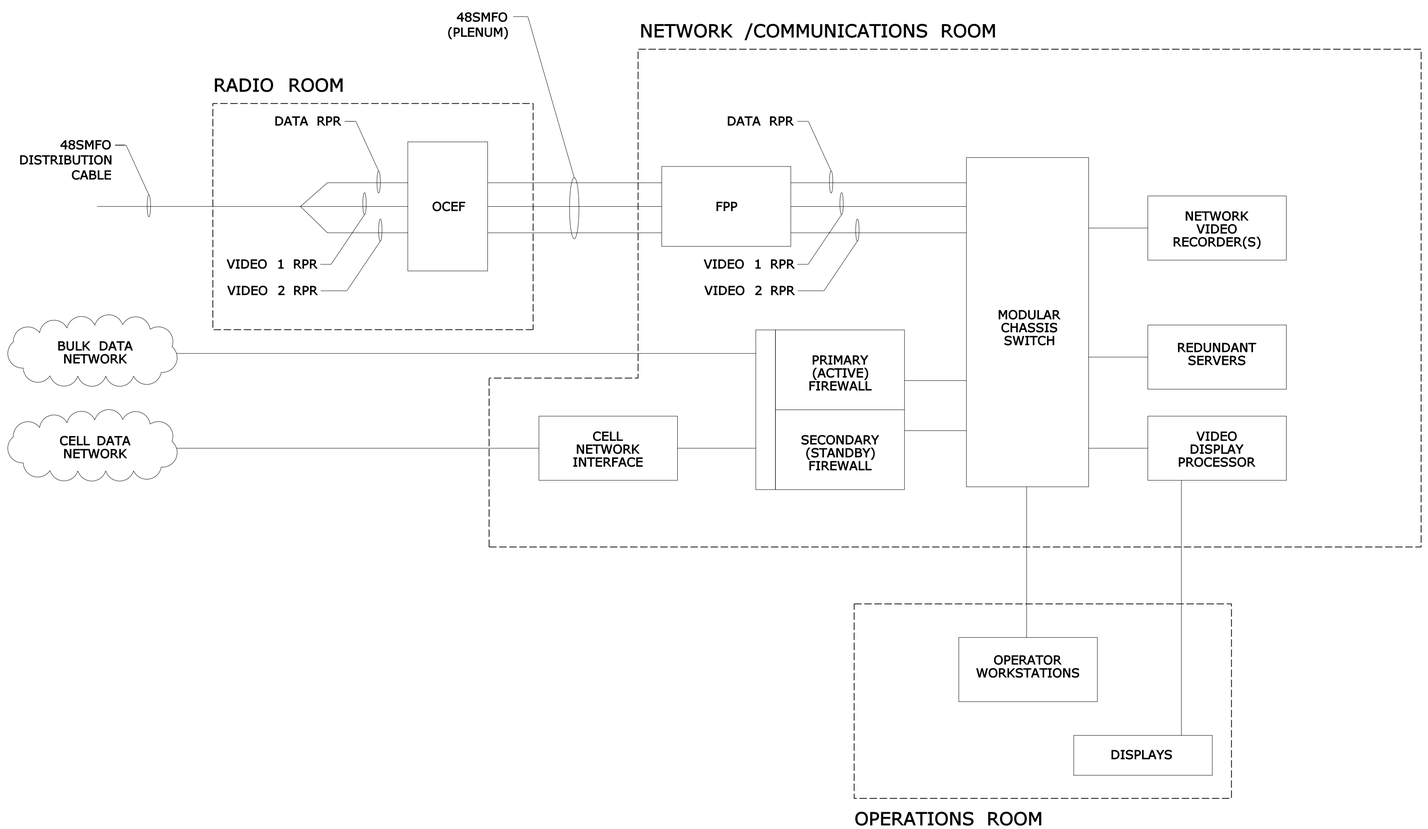
PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN TO HARTFORD

DRAWING TITLE: FIBER SPLICE DIAGRAM

PROJECT NO. 088-179
DRAWING NO. ITD-08
SHEET NO. 01.10.001

Border Version: 10/19/07



NOTES

1. CONTRACTOR TO COORDINATE EQUIPMENT LOCATION AND INSTALLATION WITH CTTRANSIT AND ENGINEER.

2. CONTRACTOR TO COORDINATE COMMUNICATION CONNECTION TO CTTRANSIT EXISTING SCHEDULING SOFTWARE.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: **LM/SM**

CHECKED BY: **CHP**

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..DET..088..179..ITD-09.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CT*fastrak*
ITS & COMMUNICATIONS SYSTEMS

TOWN: **NEW BRITAIN TO HARTFORD**

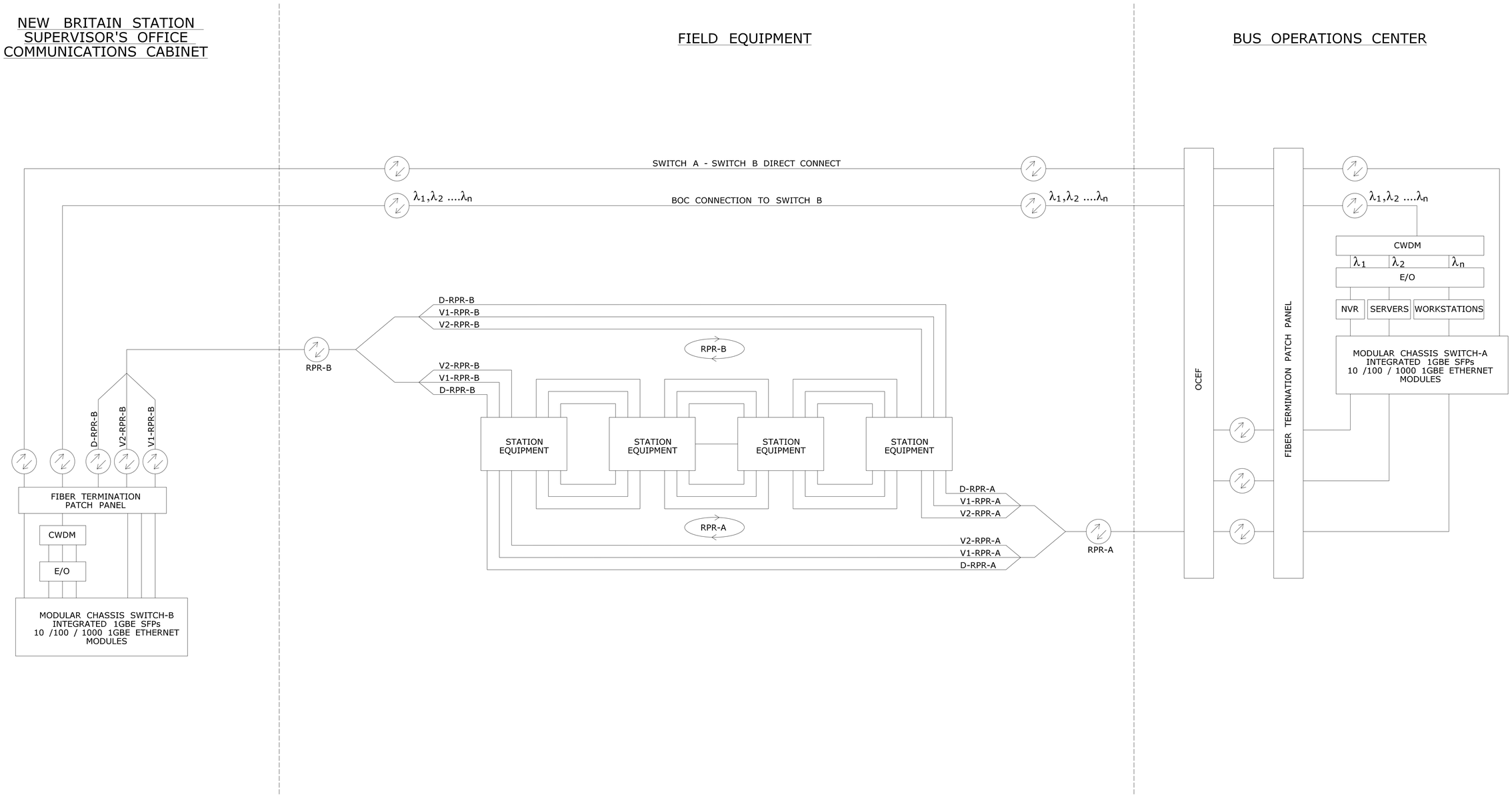
DRAWING TITLE: **BOC BLOCK DIAGRAM**

PROJECT NO. **088-179**

DRAWING NO. **ITD-09**

SHEET NO. **01.11.001**

Border Version: 10/19/07



COMMUNICATIONS NETWORK BLOCK DIAGRAM
OPTION - FULL REDUNDANT CHASSIS SWITCH

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: $DATE$

DESIGNER/DRAFTER: **LM/SM**

CHECKED BY: **CHP**

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: $FILEA$

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CT*fastrak*
ITS & COMMUNICATIONS SYSTEMS

TOWN: **NEW BRITAIN TO HARTFORD**

DRAWING TITLE: **OPTION BOC BLOCK DIAGRAM**

PROJECT NO. **088-179**

DRAWING NO. **ITD-10**

SHEET NO. **01.12.001**

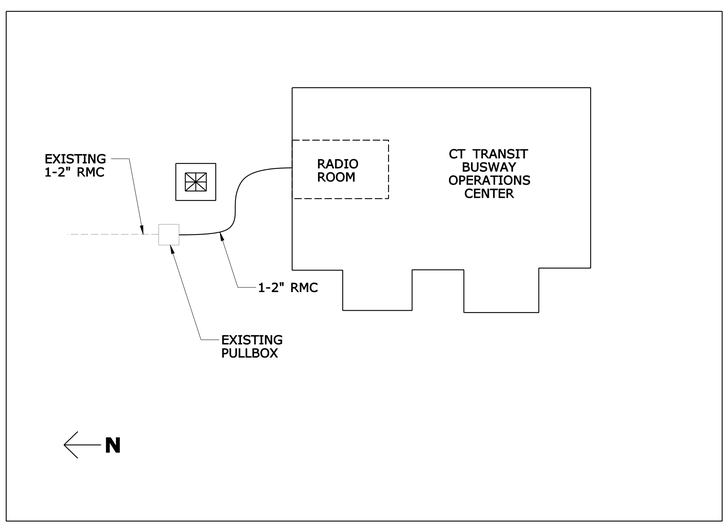
Border Version: 10/19/07

CONSTRUCTION NOTES

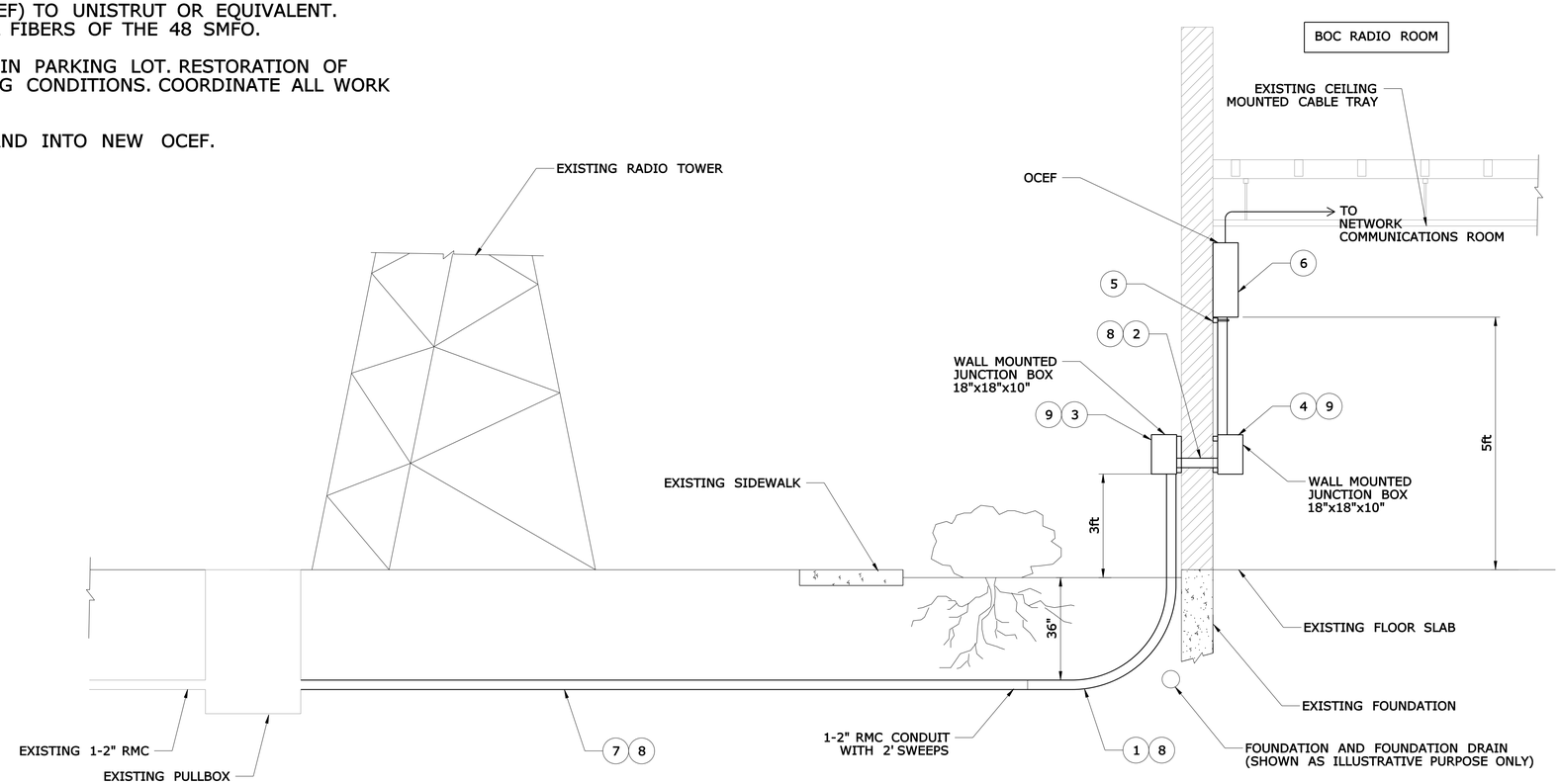
1. INSTALL 1-2" RIGID METAL CONDUIT (RMC) SWEEPS. INSTALL SWEEPS TO EXTEND ABOVE GROUND FLUSH TO BUILDING.
2. INSTALL 1-2" RIGID METAL CONDUIT (RMC) TO PENETRATE EXTERIOR WALL. SUBMIT PROCEDURE FOR WALL PENETRATION FOR APPROVAL BY CT TRANSIT PRIOR TO THE START OF WORK. ALL CONDUIT ENDS SHALL BE DEBURRED AND SHALL HAVE COLLAR. SEAL AND WEATHERPROOF PENETRATIONS. FIRE STOP WALL PENETRATIONS TO MATCH FIRE RATING OF EXISTING WALL.
3. INSTALL A WALL-MOUNTED JUNCTION BOX TO UNISTRUT OR EQUIVALENT AND PROVIDE ELECTRICAL GROUNDING PER MANUFACTURER'S SPECIFICATIONS. JUNCTION BOX SHALL HAVE WEATHERPROOF GASKETED SEAL AND LOCKABLE ACCESS. JUNCTION BOX SHALL BE NEMA 4R RATED AND AT LEAST 18"H x 18"W x 10"D TO ACCOMMODATE THE MINIMUM BENDING RADIUS OF THE 48 SMFO. INSTALL JUNCTION BOX OVER NEW CONDUITS AND SEAL USING COLLARS TO ACHIEVE A MECHANICAL CONNECTION.
4. INSTALL A WALL-MOUNTED JUNCTION BOX TO UNISTRUT OR EQUIVALENT TO PROVIDE ELECTRICAL GROUNDING PER MANUFACTURER'S SPECIFICATIONS. JUNCTION BOX SHALL HAVE WEATHERPROOF GASKETED SEAL AND LOCKABLE ACCESS. JUNCTION BOX SHALL BE INDOOR RATED AND AT 18"H x 18"W x 10"D TO ACCOMMODATE THE MINIMUM BENDING RADIUS OF THE 48 SMFO. INSTALL JUNCTION BOX OVER NEW CONDUITS AND SEAL USING COLLARS TO ACHIEVE A MECHANICAL CONNECTION.
5. INSTALL CONDUIT STRAPS EVERY 36" TO SUPPORT WALL-MOUNTED CONDUIT.
6. INSTALL A WALL MOUNTED OPTICAL CABLE ENTRANCE FACILITY (OCEF) TO UNISTRUT OR EQUIVALENT. COORDINATE LOCATION OF OCEF WITH CT TRANSIT. TERMINATE ALL FIBERS OF THE 48 SMFO.
7. INSTALL NEW 1-2" RIGID METAL CONDUIT (RMC) IN NEW TRENCH IN PARKING LOT. RESTORATION OF PARKING LOT, SIDEWALK AND LANDSCAPING SHALL MATCH EXISTING CONDITIONS. COORDINATE ALL WORK AT THE BUSWAY OPERATIONS CENTER WITH CT TRANSIT.
8. INSTALL NEW 48 SMFO DISTRIBUTION FIBER THROUGH CONDUIT AND INTO NEW OCEF.
9. INSTALL ONE LOOP OF 48 SMFO FIBER IN JUNCTION BOX.

NOTES

1. PRIOR TO INITIATION OF ANY WORK, CONTRACTOR SHALL SUBMIT PROPOSED FACILITY ENTRY PLANS TO CT TRANSIT AND THE ENGINEER FOR REVIEW AND APPROVAL.
2. CONTRACTOR SHALL COORDINATE WORK WITH THE CONTRACTOR WORKING ON PROJECT NO. 063-670.



PLAN



ELEVATION (NTS)
EQUIPMENT INSTALLATION

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_DET_088_179_ITD-11.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN TO HARTFORD

DRAWING TITLE: BOC FIBER ENTRANCE DETAIL

PROJECT NO. 088-179
DRAWING NO. ITD-11
SHEET NO. 01.13.001

Border Version: 10/19/07

NOTES

1. INSTALL ALL CAMERAS ON EXISTING CAMERA POLE OR EXISTING TRAFFIC POLE ACCORDING TO THE CAMERA POLE AND CABINET TABLE.

2. INSTALL ALL CAMERA EQUIPMENT IN EXISTING TRAFFIC MANAGEMENT SYSTEM CABINET.

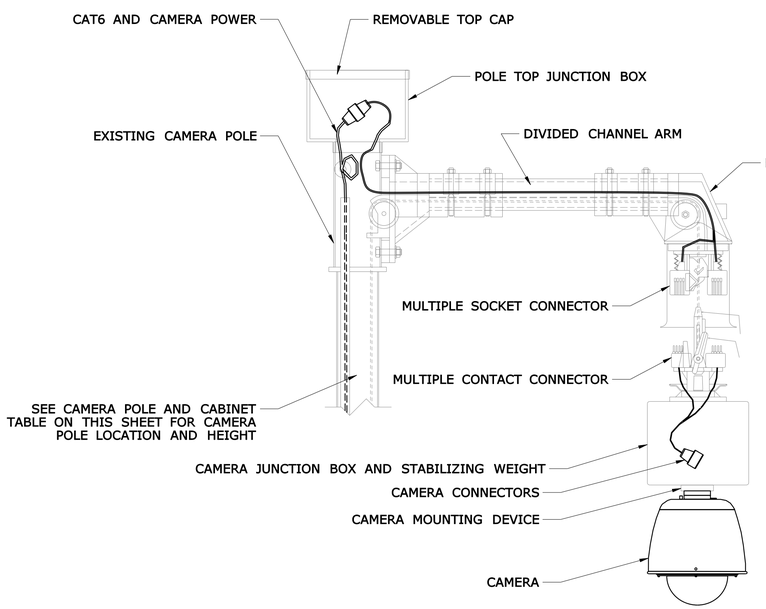
3. CAMERAS INSTALLED ON CAMERA POLES SHALL BE MOUNTED TO EXISTING LOWERING DEVICE.

4. CAMERAS INSTALLED ON TRAFFIC POLES SHALL BE MOUNTED ACCORDING TO MANUFACTURER'S RECOMMENDATION.

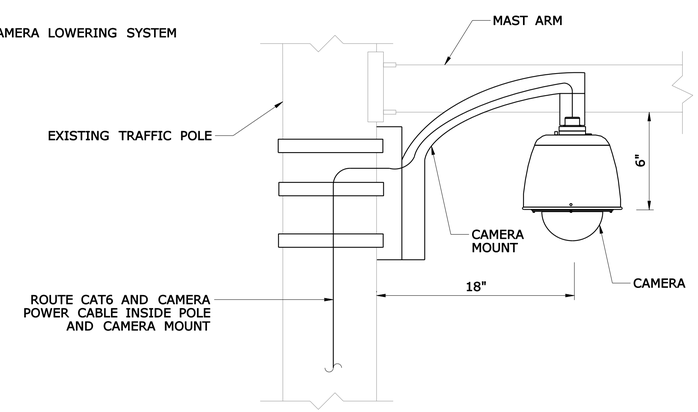
5. CAMERAS INSTALLED ON TRAFFIC POLES SHALL BE ORIENTED TOWARD THE INTERSECTION AS DIRECTED BY THE PROJECT ENGINEER.

6. EXISTING TRAFFIC CONTROLLER EQUIPMENT NOT SHOWN. INSTALL EQUIPMENT ACCORDING TO THE PROJECT ENGINEER.

7. SEE COMMUNICATION CORRIDOR PLANS FOR LOCATION OF TRAFFIC MANAGEMENT SYSTEM CABINET, TRAFFIC POLES, CAMERA POLES, AND CABLE VAULTS.



1 **CAMERA ON EXISTING CAMERA POLE DETAIL**



2 **CAMERA ON EXISTING TRAFFIC POLE DETAIL**

CAMERA POLE AND CABINET TABLE

SHEET #	STA	POLE TYPE	CABINET TYPE
ITS-04	37+30	TRAFFIC POLE	TRAFFIC MANAGEMENT SYSTEM CABINET
ITS-06	66+70	TRAFFIC POLE	TRAFFIC MANAGEMENT SYSTEM CABINET
ITS-15	152+55	70' CAMERA POLE	TRAFFIC MANAGEMENT SYSTEM CABINET
ITS-22	238+80	70' CAMERA POLE	TRAFFIC MANAGEMENT SYSTEM CABINET
ITS-31	330+70	TRAFFIC POLE	TRAFFIC MANAGEMENT SYSTEM CABINET
ITS-39	405+20	TRAFFIC POLE	TRAFFIC MANAGEMENT SYSTEM CABINET
ITS-42	435+50	30' CAMERA POLE	TRAFFIC MANAGEMENT SYSTEM CABINET
ITS-44	460+40	15' CAMERA POLE	TRAFFIC MANAGEMENT SYSTEM CABINET
ITS-46	471+55	TRAFFIC POLE	TRAFFIC MANAGEMENT SYSTEM CABINET
ITS-47	491+40	TRAFFIC POLE	TRAFFIC MANAGEMENT SYSTEM CABINET

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_DET_088_179_ITD-13.dgn

SIGNATURE/BLOCK:
IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

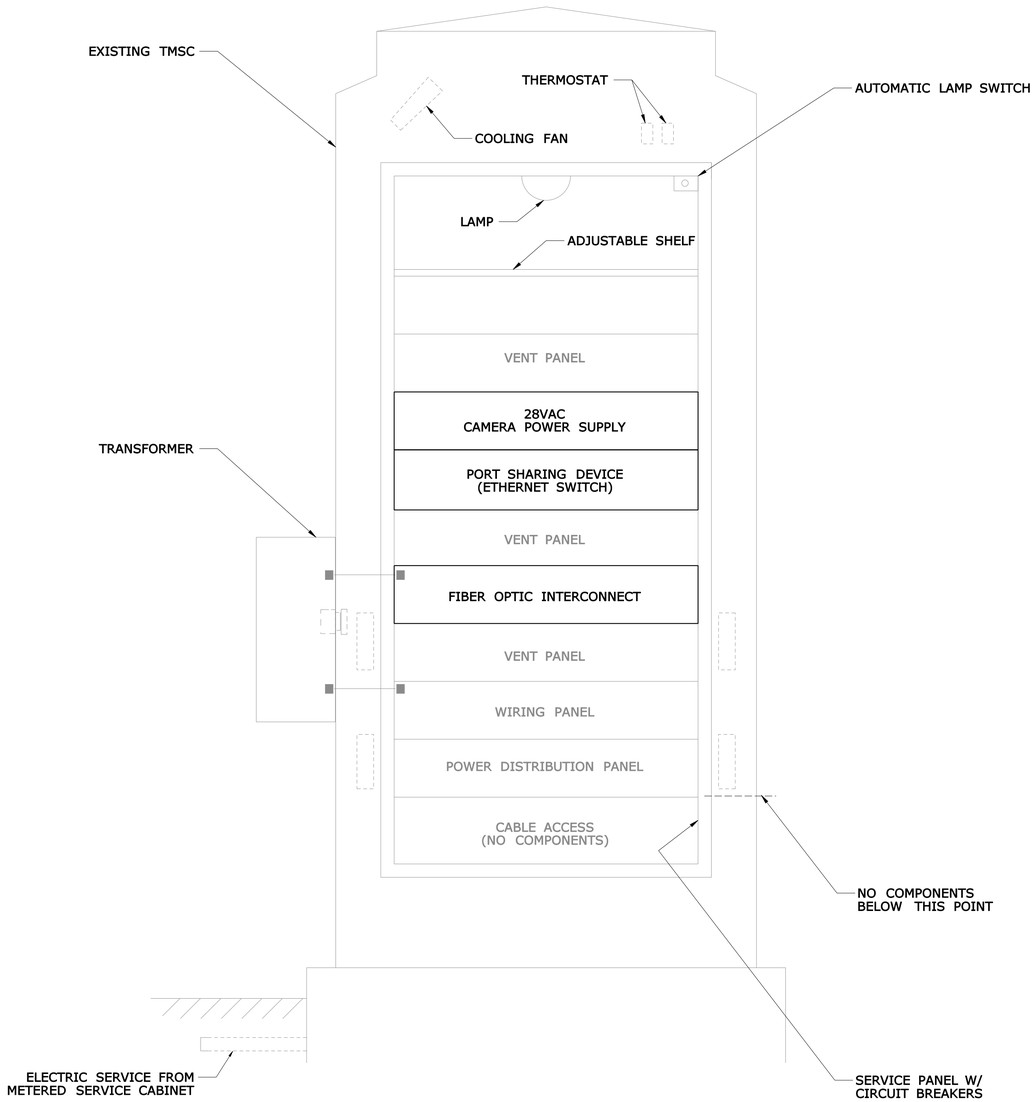
PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN TO HARTFORD

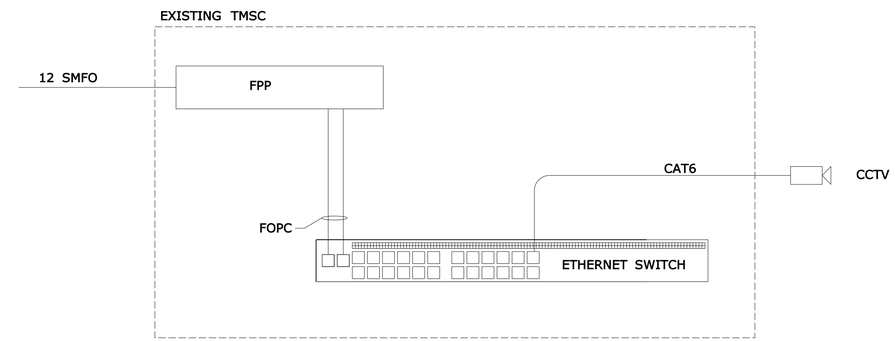
DRAWING TITLE: BUSWAY CAMERA DETAILS

PROJECT NO. 088-179
DRAWING NO. ITD-13
SHEET NO. 01.15.001

Border Version: 11/14/08



1 **TRAFFIC MANAGEMENT SYSTEM CABINET DETAIL**
NOT TO SCALE



2 **BUSWAY CAMERA NETWORK TOPOLOGY**
NOT TO SCALE

NOTES

1. SEE STANDARD DETAIL HO-GDS_IMS_13 FOR TRAFFIC MANAGEMENT SYSTEM CABINET DETAIL.

2. FOR BUSWAY CAMERA LOCATIONS, INSTALL FIBER PATCH PANEL, ETHERNET SWITCHES, AND CABLING IN EXISTING TMSC.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: **LM/SM**
CHECKED BY: **CHP**

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_DET_088_179_ITD-14.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

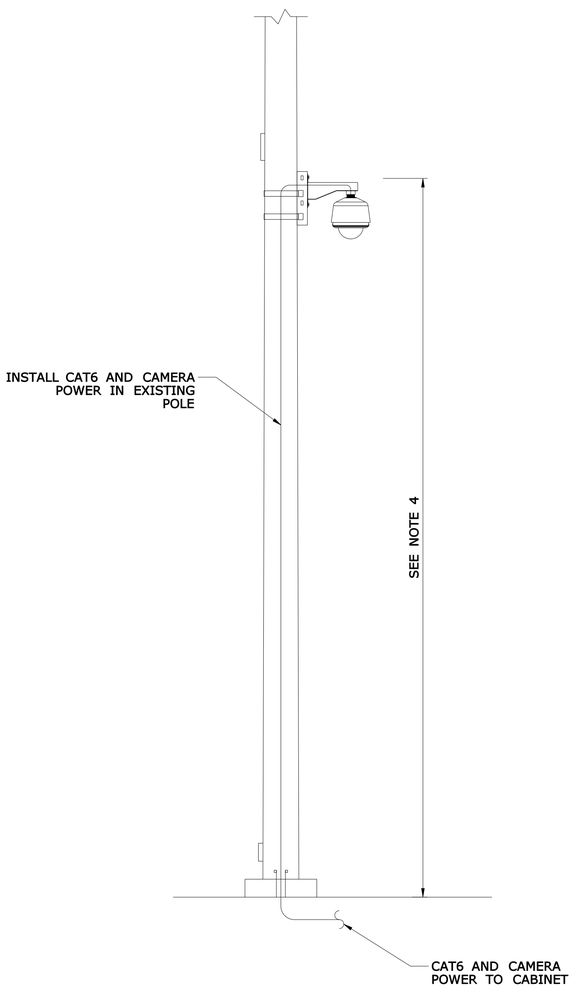
PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: **NEW BRITAIN TO HARTFORD**

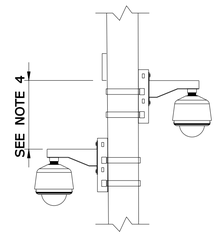
DRAWING TITLE: **BUSWAY CABINET DETAILS**

PROJECT NO. **088-179**
DRAWING NO. **ITD-14**
SHEET NO. **01.16.001**

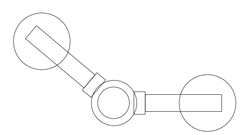
Border Version: 10/19/07



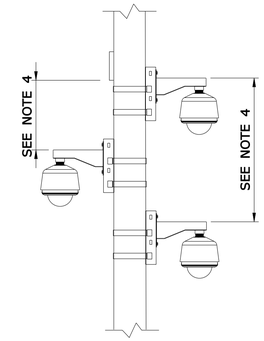
1 **ILLUMINATION POLE WITH CAMERA**



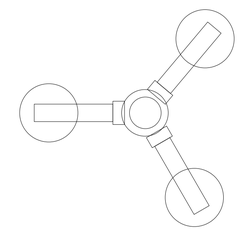
2 **ILLUMINATION POLE WITH 2 CAMERAS**



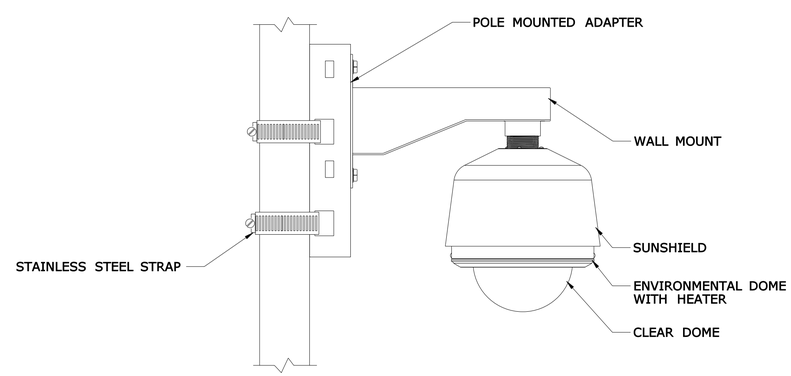
3 **ILLUMINATION POLE WITH 2 CAMERAS PLAN VIEW**



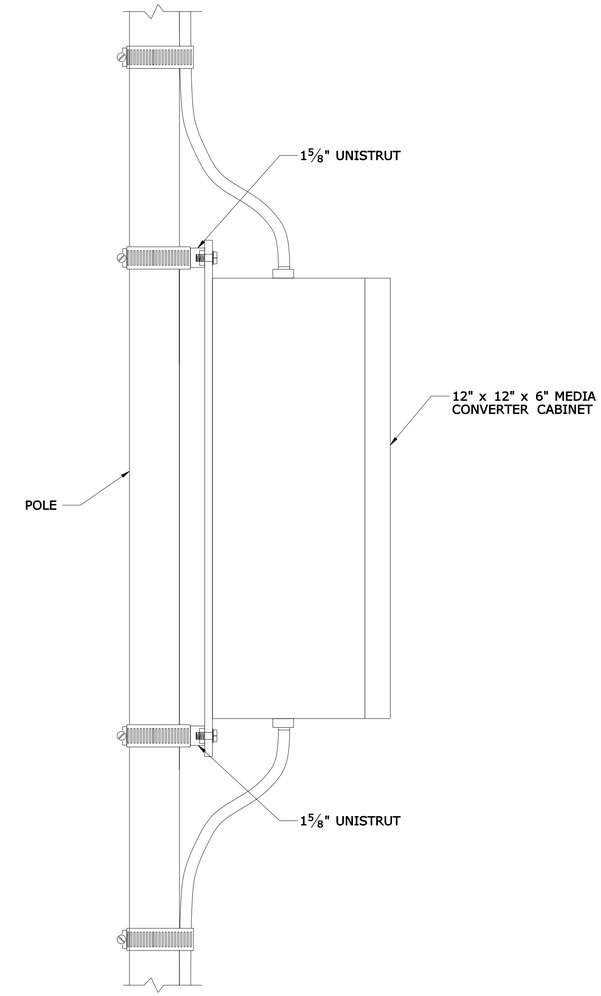
4 **ILLUMINATION POLE WITH 3 CAMERAS**



5 **ILLUMINATION POLE WITH 3 CAMERAS PLAN VIEW**



6 **TYPICAL CAMERA MOUNTING DETAIL**



7 **MEDIA CONVERTER CABINET POLE MOUNTING DETAIL**

NOTES

1. MOUNT CAMERAS TO EXISTING ILLUMINATION POLES PER MANUFACTURER'S RECOMMENDATION.

2. SEE STATION PLANS FOR CAMERA POSITIONING. FINAL POSITIONING TO BE APPROVED BY ENGINEER.

3. SEE STATION PLANS FOR ROUTING OF POWER AND CABLING TO COMMUNICATIONS CABINET.

4. SEE CAMERA MOUNTING HEIGHT TABLE ON STATION PLANS.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 9/20/2012

DESIGNER/DRAFTER: **LM/SM**
CHECKED BY: **CHP**

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_DET_088_179_ITD-15.dgn

SIGNATURE/ BLOCK:

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CT*fastrak*
ITS & COMMUNICATIONS SYSTEMS

TOWN: **NEW BRITAIN TO HARTFORD**

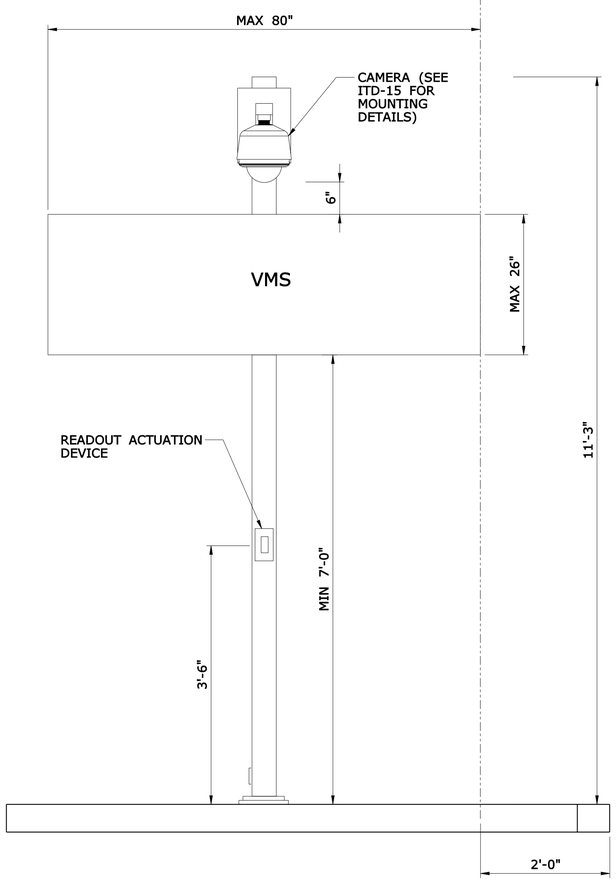
DRAWING TITLE: **STATION CAMERA DETAILS**

PROJECT NO. **088-179**
DRAWING NO. **ITD-15**
SHEET NO. **01.17.001**

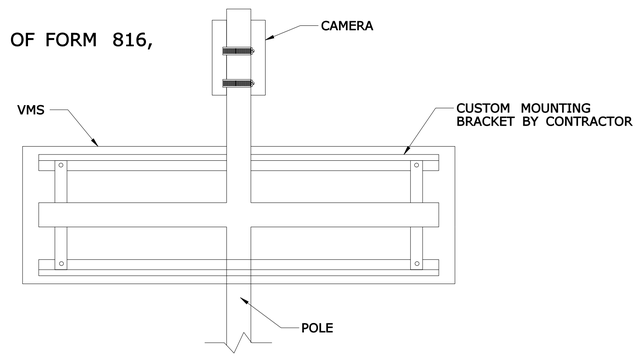
Border Version: 11/14/08

NOTES

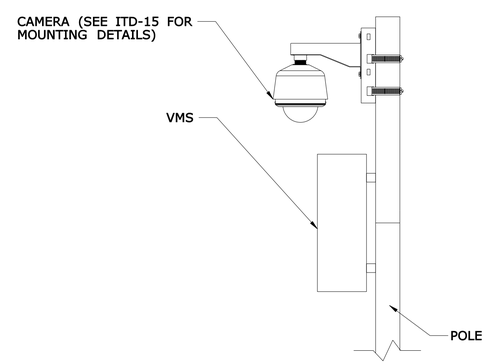
1. ALL DESIGNS SHALL BE CERTIFIED BY A PROFESSIONAL ENGINEER REGISTERED IN CONNECTICUT. SUBMITTAL DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY ENGINEER.
2. SEE STATION PLANS FOR POSITIONING VMS AND CAMERA. FINAL POSITIONING TO BE APPROVED BY ENGINEER.
3. SEE STATION PLANS FOR ROUTING OF POWER AND COMMUNICATION CABLING TO COMMUNICATIONS CABINET.
4. MAXIMUM DIMENSION SHOWN FOR VMS SIZE.
5. SEE ITD-09 FOR CANOPY MOUNT VMS DETAIL.
6. READOUT ACTIVATION DEVICE TO BE POSITIONED IN ACCORDANCE WITH ADA REQUIREMENTS.
7. DATE OF VMS INSTALLATION TO BE CONFIRMED BY ENGINEER.
8. CAMERA FIELD OF VIEW TO BE CONFIRMED IN FIELD BY ENGINEER.
9. ALL BRACKET MATERIAL SHALL BE CONSISTENT WITH THE STRUCTURAL STEEL REQUIREMENTS OF FORM 816, SECTION 6.03, INCLUDING ALL RELEVANT ASTM, AASHTO, AND ANSI STANDARDS.



1 **PLATFORM POLE WITH SINGLE-SIDED VMS AND CAMERA FRONT VIEW**



2 **VMS MOUNTING TO POLE ARM BACK VIEW**



3 **VMS & CAMERA MOUNTING ON POLE ARM SIDE VIEW**

VMS SUMMARY TABLE

STATION	SHEET #	VMS NAME	MOUNTING METHOD
DOWNTOWN NEW BRITAIN	STA-01	DNB-S-1	VMS POLE
		DNB-D-1	CANOPY
		DNB-D-2	CANOPY
	STA-02	DNB-D-3	CANOPY
		DNB-D-4	CANOPY
	STA-03	DNB-S-2	VMS POLE
EAST MAIN STREET	STA-04	EMS-S-1	PYLON
		EMS-S-2	VMS POLE
	STA-05	EMS-S-3	VMS POLE
		EMS-S-4	PYLON
EAST STREET	STA-06	ES-S-1	PYLON
		ES-S-2	PYLON
		ES-S-3	PYLON
		ES-S-4	PYLON
CEDAR STREET	STA-08	CS-S-1	PYLON
		CS-S-2	VMS POLE
		CS-S-3	PYLON
	STA-09	CS-S-4	PYLON
NEWINGTON JUNCTION	STA-10	NJ-S-1	PYLON
		NJ-S-2	PYLON
	STA-11	NJ-S-3	PYLON
		NJ-S-4	PYLON
ELMWOOD	STA-12	E-S-1	PYLON
		E-S-5	VMS POLE
	STA-13	E-S-2	PYLON
		E-S-3	PYLON
		E-S-4	PYLON
FLATBUSH AVE	STA-15	FA-D-1	CANOPY
		FA-D-2	CANOPY
KANE STREET	STA-17	KS-S-1	PYLON
		KS-S-2	VMS POLE
		KS-S-3	PYLON
		KS-S-4	PYLON
PARKVILLE	STA-18	P-S-1	PYLON
	STA-19	P-S-2	PYLON
		P-S-3	PYLON
		P-S-4	PYLON
SIGOURNEY STREET	STA-20	SS-S-1	PYLON
		SS-S-2	PYLON
		SS-S-3	PYLON
		SS-S-4	PYLON
UNION	STA-21	U-S-1	VMS POLE
		U-S-2	VMS POLE

NAMING SCHEME (VMS)

INITIALS OF STATION -

DNB- DOWNTOWN NEW BRITAIN STATION
EMS- EAST MAIN STREET STATION
ES- EAST STREET STATION
CS- CEDAR STREET STATION
NJ- NEWINGTON JUNCTION STATION
E- ELMWOOD STATION
FA- FLATBUSH AVE STATION
KS- KANE STREET STATION
P- PARKVILLE STATION
SS- SIGOURNEY STREET STATION
U- UNION STATION

MOUNTING LOCATION -

S- SINGLE SIDED
D- DOUBLE SIDED

SEQUENTIAL NUMBERING UNIQUE TO STATION

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_DET_088_179_ITD-16.dgn

SIGNATURE/BLOCK:
IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

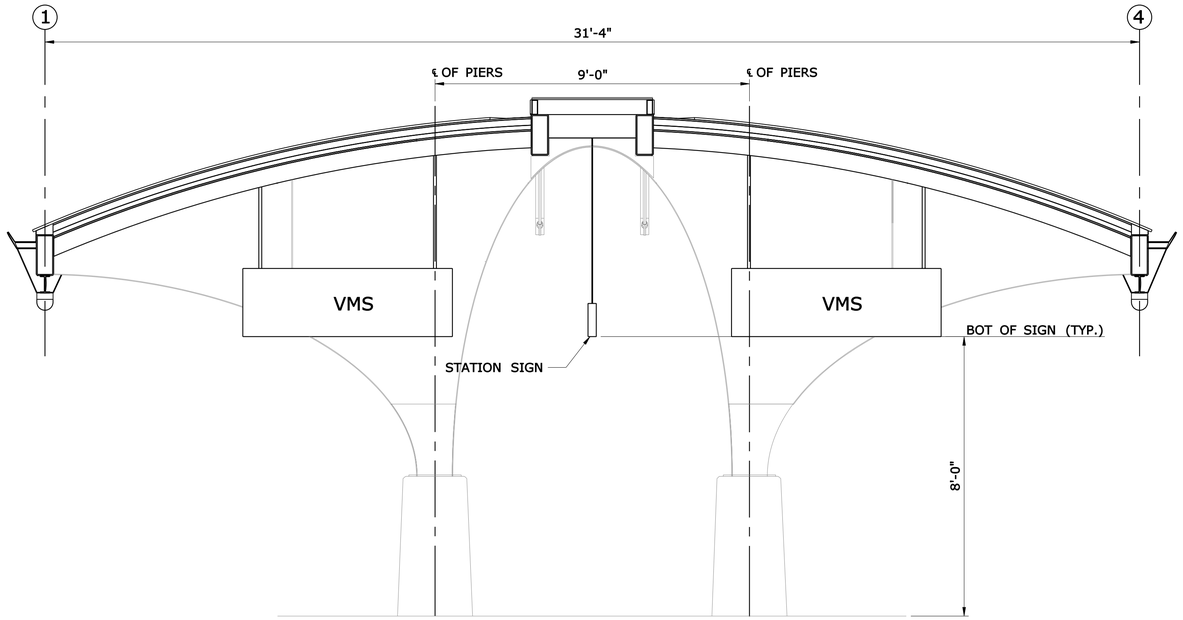
PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN TO HARTFORD

DRAWING TITLE: POLE MOUNTED VMS AND CAMERA DETAILS

PROJECT NO. 088-179
DRAWING NO. ITD-16
SHEET NO. 01.18.001

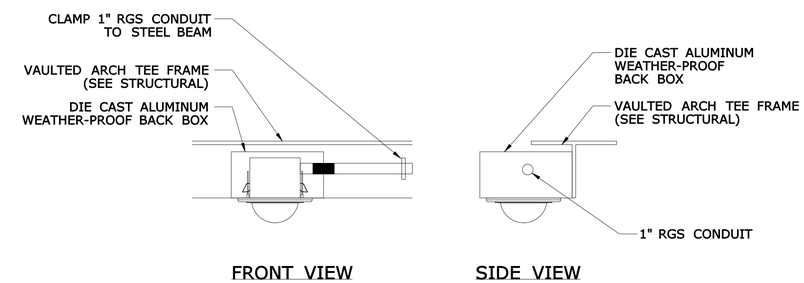
Border Version: 11/14/08



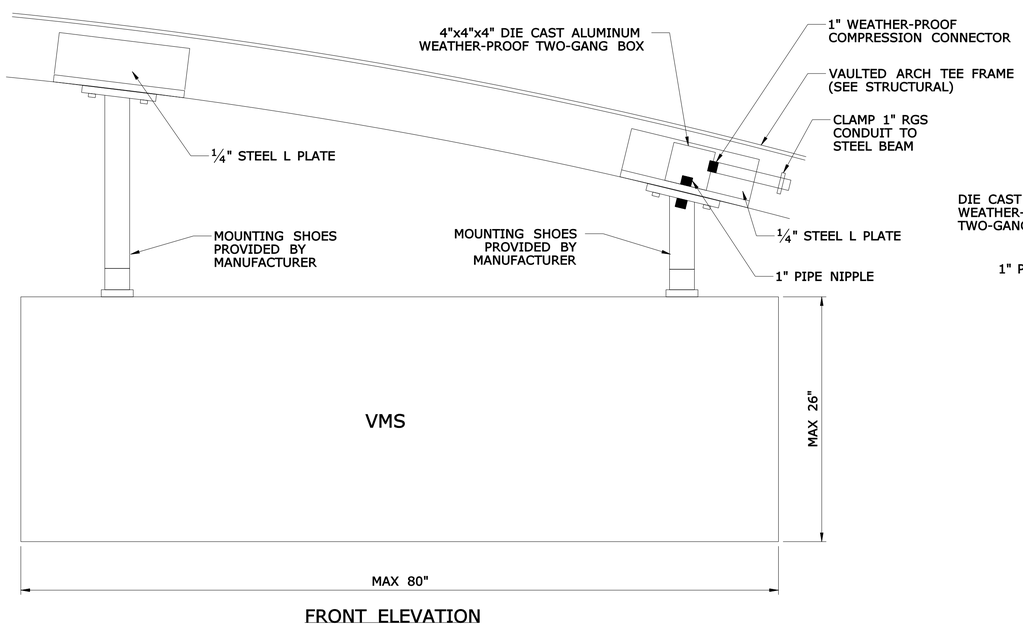
1 **DOUBLE-SIDED VMS ON VAULTED ARCH**

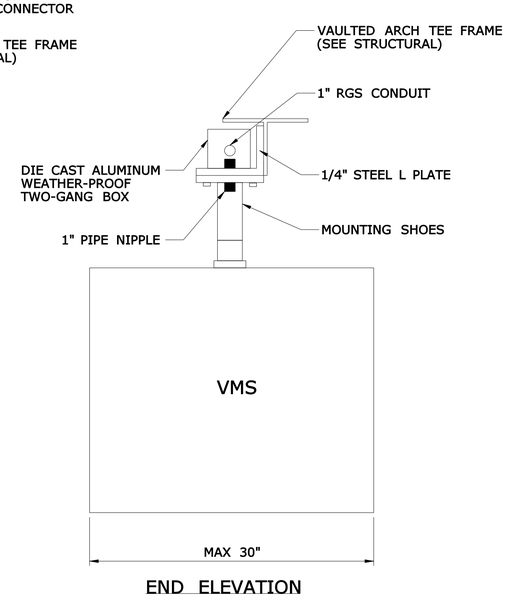
NOTES

1. CONTRACTOR TO ENSURE SAFE MOUNTING HEIGHT AND LOCATION.
2. SIGN VISIBILITY TO BE CONFIRMED IN FIELD BY ENGINEER.
3. CAMERA FIELD OF VIEW TO BE CONFIRMED IN FIELD BY ENGINEER.
4. ALL DESIGNS SHALL BE CERTIFIED BY A PROFESSIONAL ENGINEER REGISTERED IN CONNECTICUT. SUBMITTAL DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY ENGINEER.
5. ALL BRACKET MATERIAL SHALL BE CONSISTENT WITH THE STRUCTURAL STEEL REQUIREMENTS OF FORM 816, SECTION 6.03, INCLUDING ALL RELEVANT ASTM, AASHTO, AND ANSI STANDARDS.

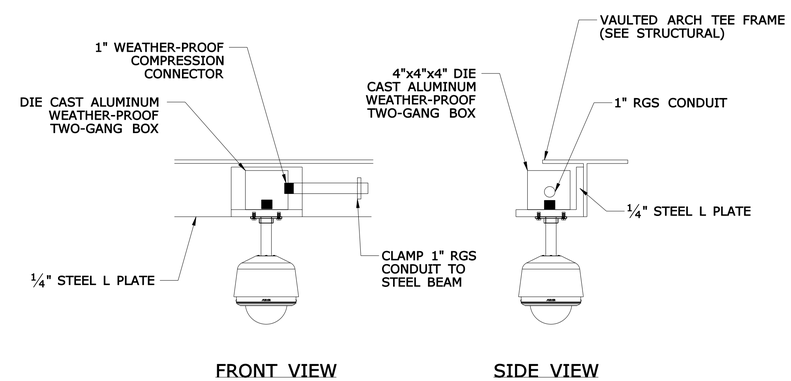


3 **CAMERA MOUNTING - FLUSH MOUNT**





2 **DOUBLE-SIDED VMS MOUNTING DETAIL**



4 **CAMERA MOUNTING - PEDESTAL**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: **LM/SM**
CHECKED BY: **CHP**

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..DET..088..179..ITD-17.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

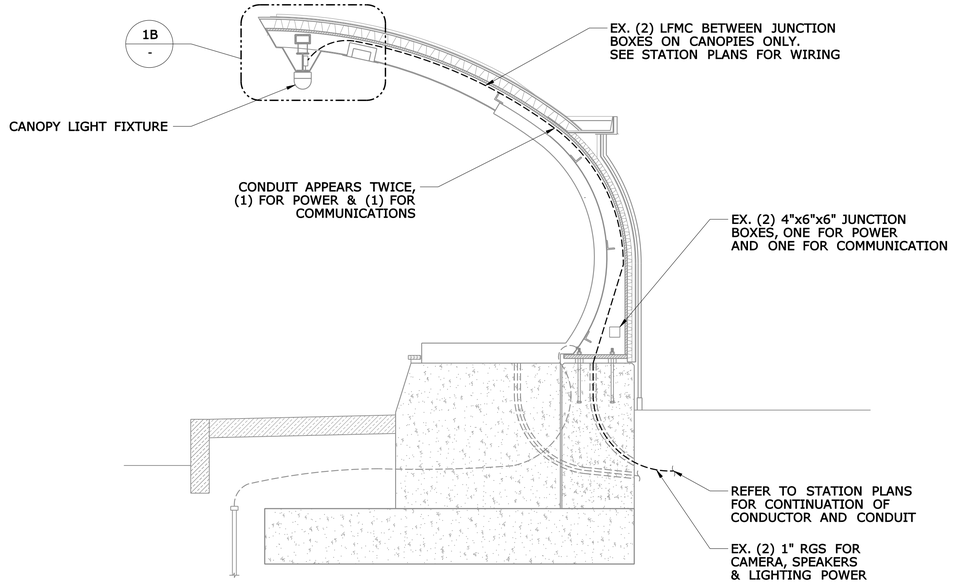
PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: **NEW BRITAIN TO HARTFORD**

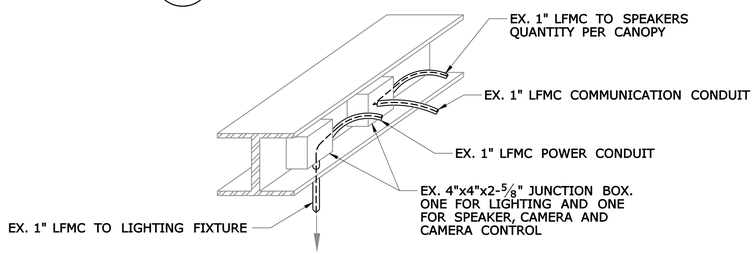
DRAWING TITLE: **VAULTED ARCH VMS AND CAMERA DETAILS**

PROJECT NO. **088-179**
DRAWING NO. **ITD-17**
SHEET NO. **01.19.001**

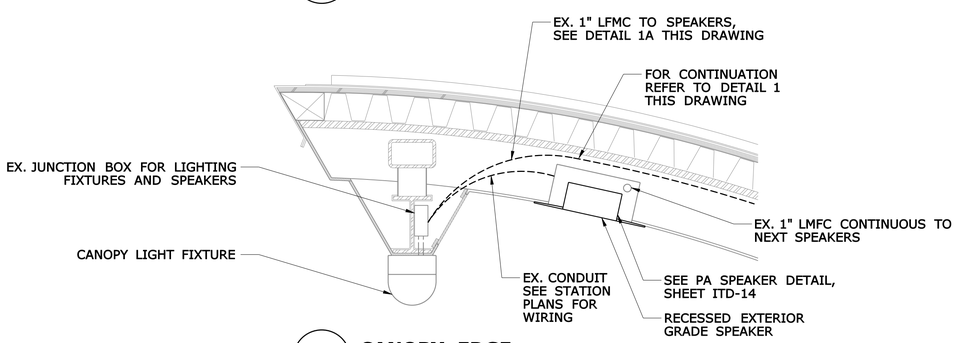
Border Version: 10/19/07



1 SHELL SECTION AT GLASS/END SUPPORT

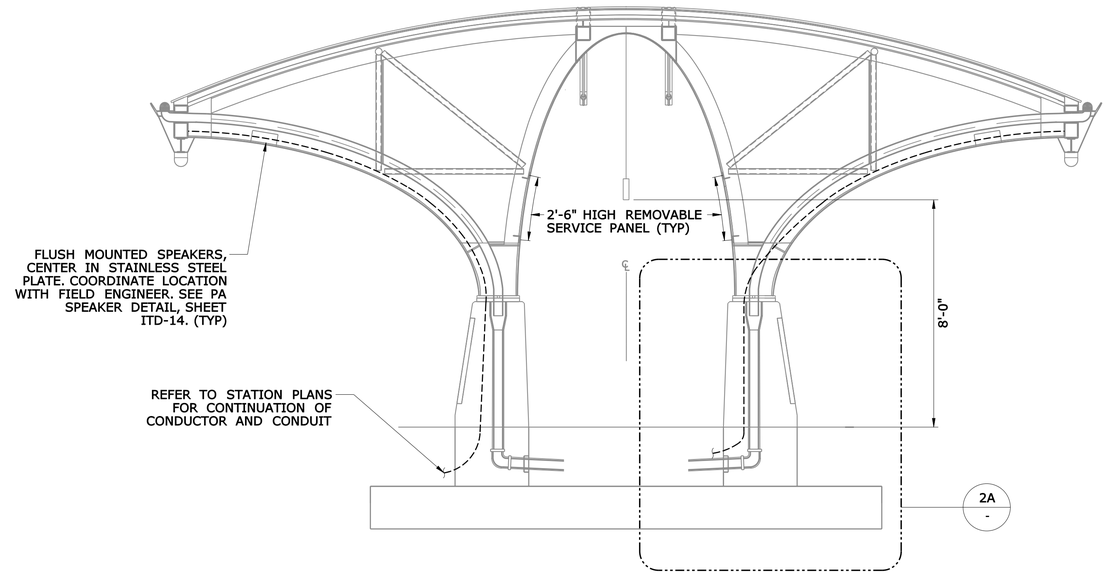


1A JUNCTION BOX ON I-BEAM

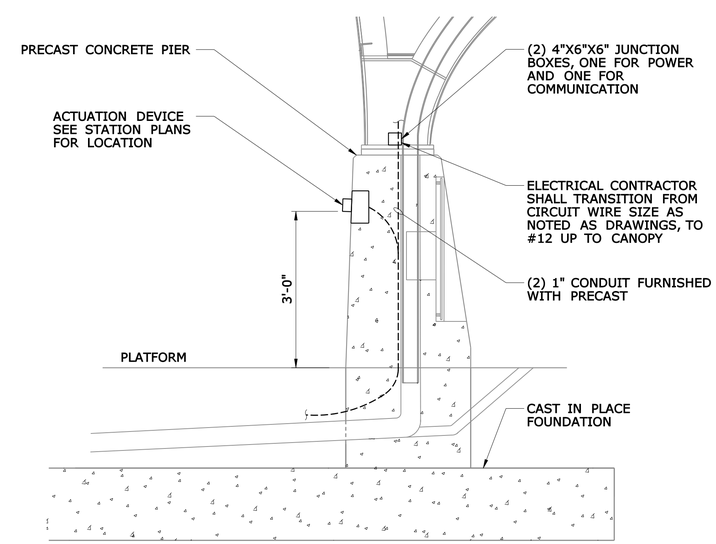


1B CANOPY EDGE

SHELL CONDUIT PATH - TYPICAL



2 CONDUIT TO CAMERA, SPEAKER & ACTUATED DEVICE



2A PIER DETAIL SECTION

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..DET..088..179..ITD-18.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

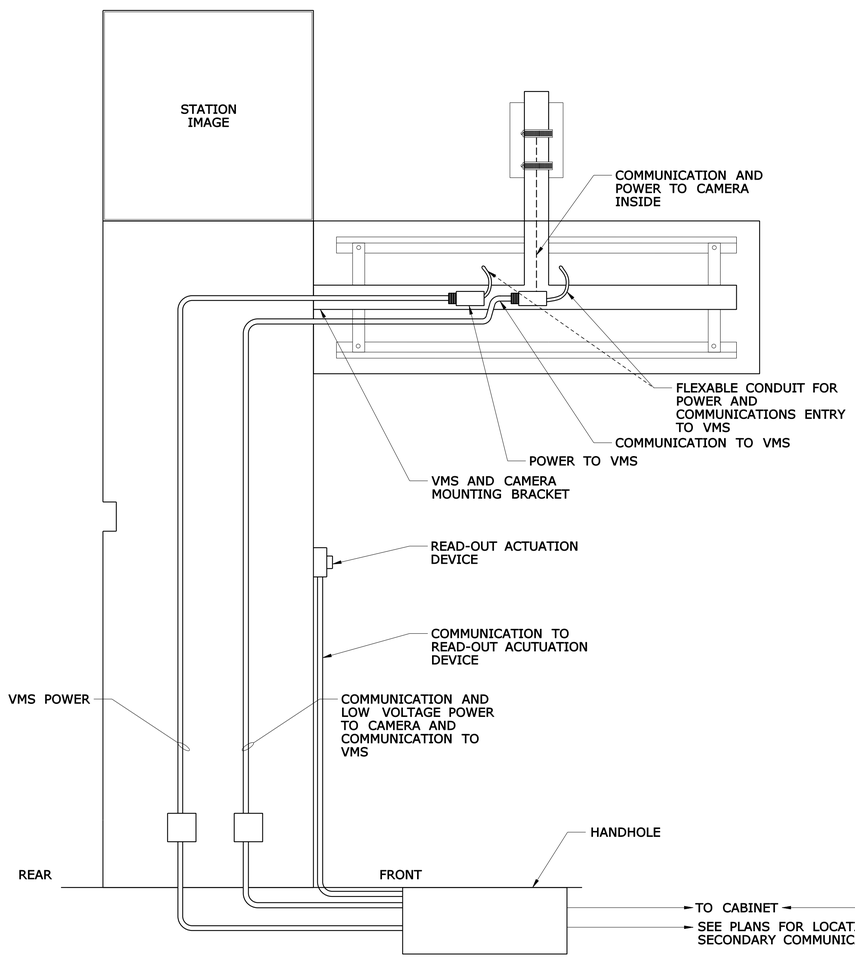
PROJECT TITLE: CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN TO HARTFORD

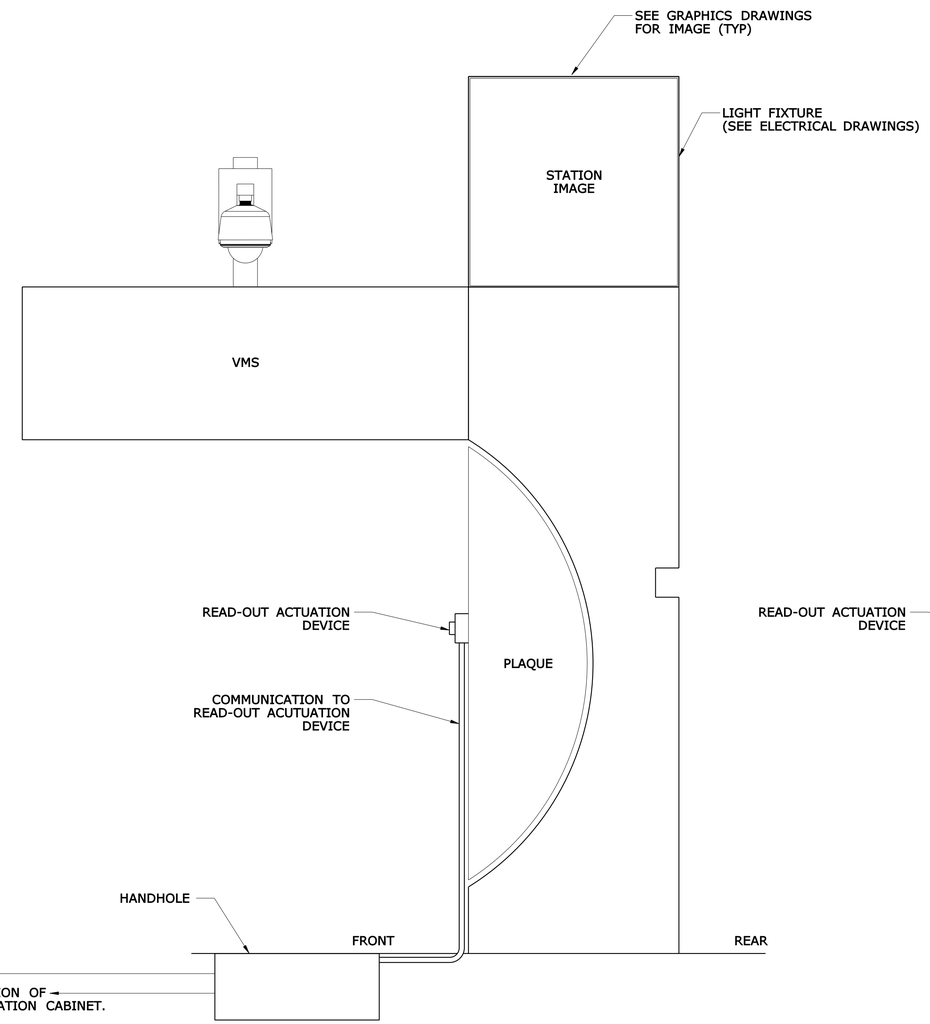
DRAWING TITLE: CANOPY CONDUIT DETAILS

PROJECT NO. 088-179
DRAWING NO. ITD-18
SHEET NO. 01.20.001

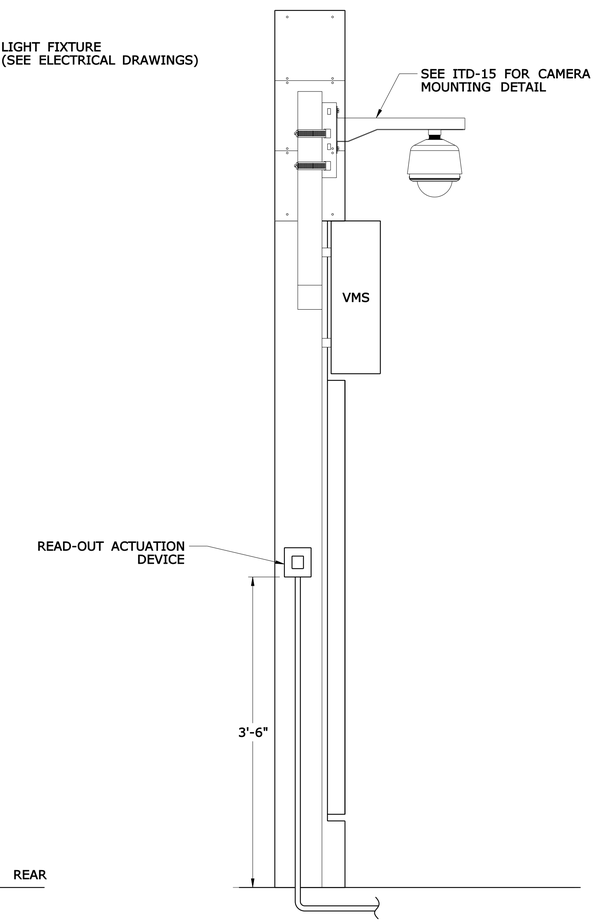
Border Version: 10/19/07



1 **LEFT ELEVATION**



2 **RIGHT ELEVATION**



3 **FRONT ELEVATION**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: **LM/SM**

CHECKED BY: **CHP**

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_DET_088_179_ITD-19.dgn

IBI GROUP

IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA

tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: **NEW BRITAIN TO HARTFORD**

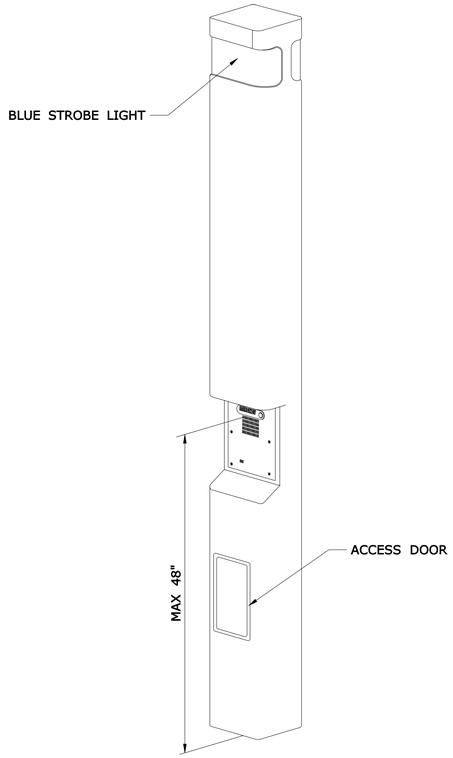
DRAWING TITLE: **PYLON MOUNTED VMS, CAMERA, & CABINET DET.**

PROJECT NO. **088-179**

DRAWING NO. **ITD-19**

SHEET NO. **01.21.001**

Border Version: 10/19/07

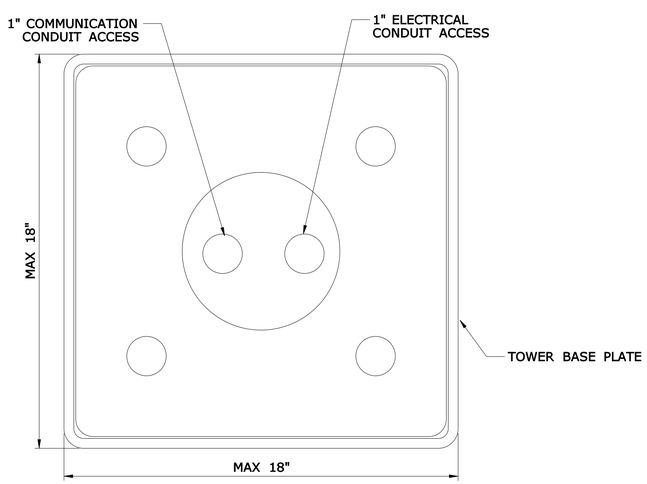


ISOMETRIC VIEW

1 **EMERGENCY CALL BOX**

EMERGENCY CALL BOX NOTES

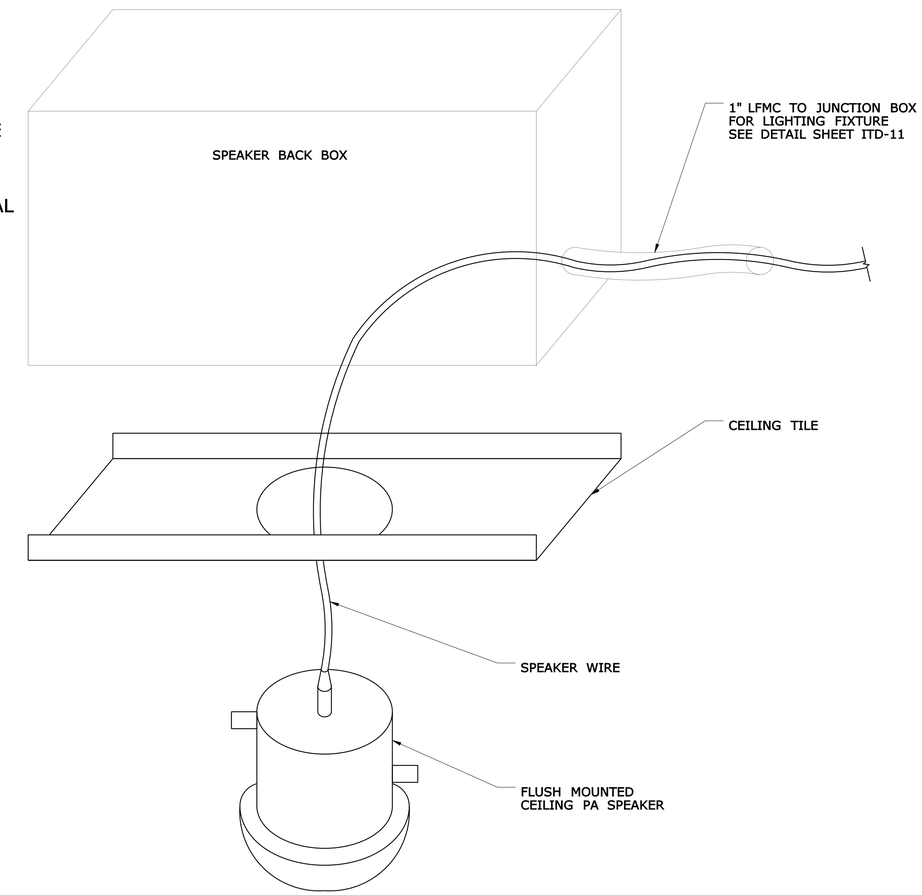
1. SEE STATION PLANS FOR ORIENTATION OF THE EMERGENCY CALL BOX.
2. CONTRACTOR MAY PROPOSE ALTERNATE DIMENSIONS WITH JUSTIFICATION, FOR ENGINEERS APPROVAL.
3. ALL INSTALLATIONS MUST MEET ADA REQUIREMENTS.



2 **EMERGENCY CALL BOX FOOTPRINT DIMENSIONS**
NOT TO SCALE

PA SPEAKER NOTES

1. SEE STATION PLANS FOR APPROXIMATE SPEAKER LOCATIONS.
2. CONTRACTOR SHALL PROVIDE SPEAKER QUANTITY SUFFICIENT TO MEET TECHNICAL AND PERFORMANCE REQUIREMENTS IDENTIFIED IN THE SPECIFICATIONS.
3. SEE SHEET ITD-10 FOR CANOPY CONDUIT DETAILS FOR MOUNTING SPEAKERS TO PLATFORM SHELTERS AND VAULTED ARCH CANOPIES.



3 **PA SPEAKER DETAIL**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: **LM/SM**
CHECKED BY: **CHP**

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_DET_088_179_ITD-20.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: **NEW BRITAIN TO HARTFORD**

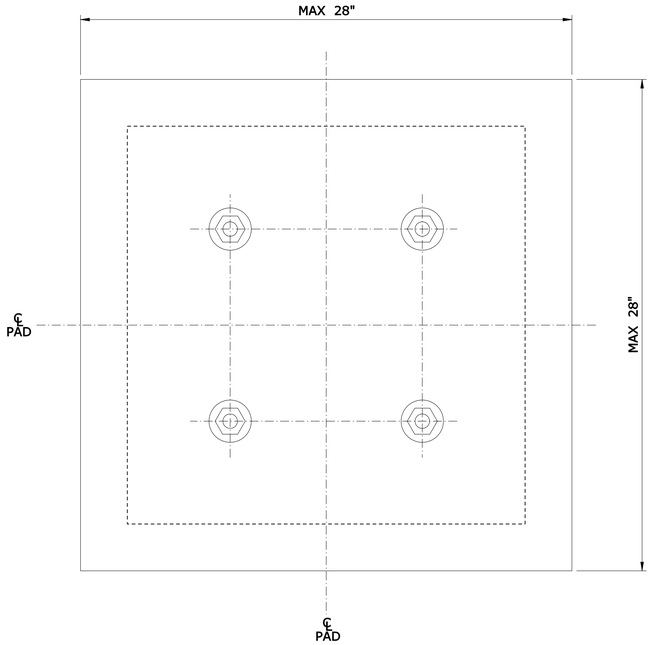
DRAWING TITLE: **EMERGENCY CALL BOX & PA SYSTEM DETAILS**

PROJECT NO. **088-179**
DRAWING NO. **ITD-20**
SHEET NO. **01.22.001**

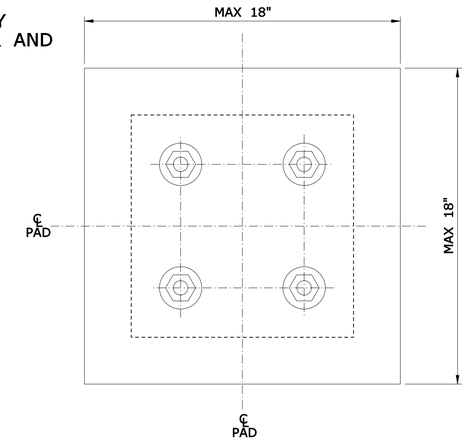
Border Version: 10/19/07

NOTES

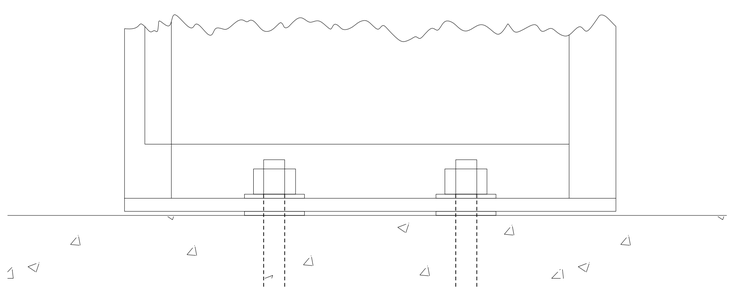
1. SEE STATION PLANS FOR ORIENTATION OF THE TICKET VENDING MACHINES AND TICKET VALIDATORS.
2. CONTRACTOR MAY PROPOSE ALTERNATE DIMENSIONS WITH JUSTIFICATION, FOR ENGINEERS APPROVAL.
3. ALL INSTALLATIONS MUST MEET ADA REQUIREMENTS.
4. EQUIPMENT FOUNDATION AND PAVEMENT MATCHING PROVIDED BY OTHERS. CONTRACTOR TO COORDINATE WITH STATION CONTRACTOR AND PROJECT ENGINEER.



PAD PLAN VIEW

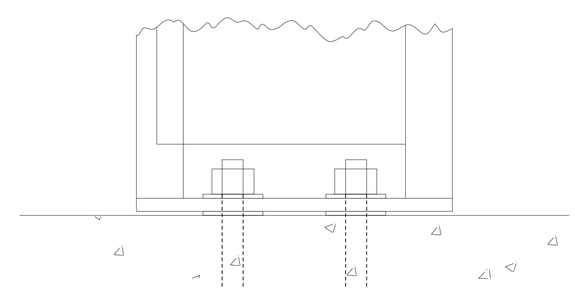


PAD PLAN VIEW



SECTION VIEW

1 **TICKET VENDING MACHINE**



SECTION VIEW

2 **TICKET VALIDATOR**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: **LM/SM**
CHECKED BY: **CHP**

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..DET..088..179..ITD-21.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CT*fastrak*
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN TO HARTFORD

DRAWING TITLE: TICKET VALIDATOR & VENDING MACHINE

PROJECT NO. 088-179
DRAWING NO. ITD-21
SHEET NO. 01.23.001

Border Version: 10/19/07

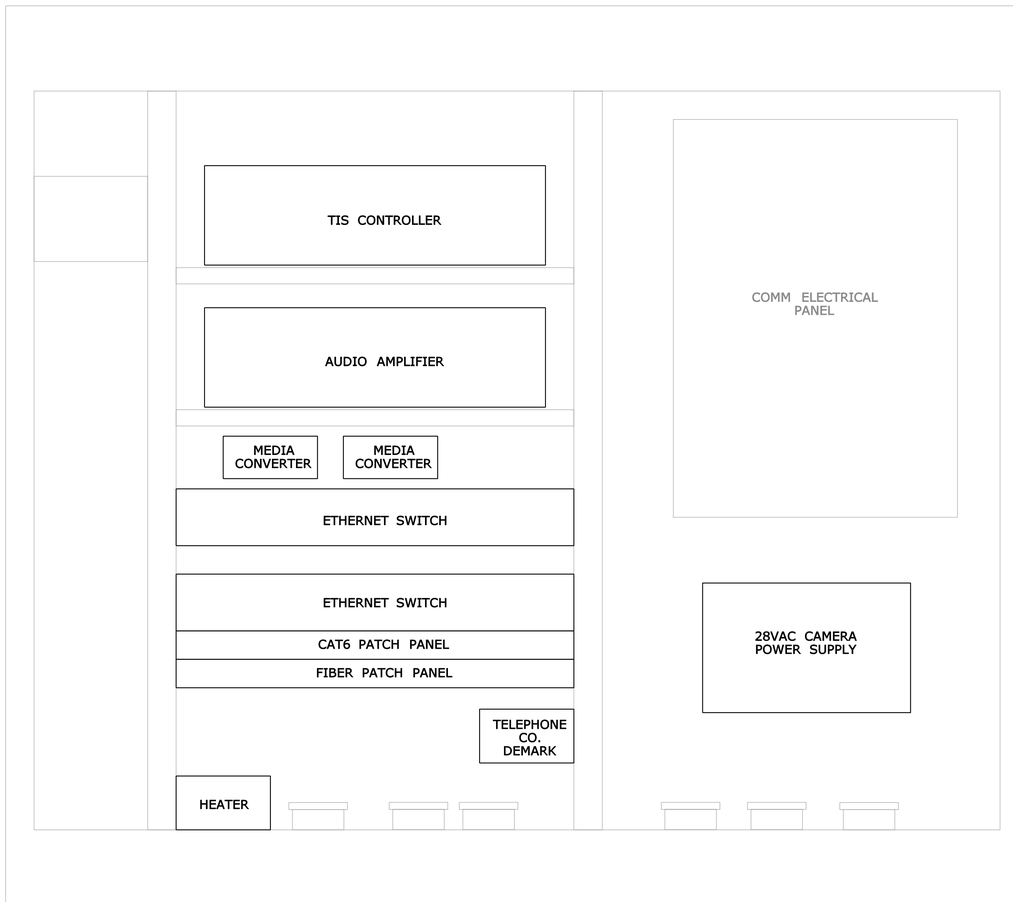
NOTES

1. 4'x4' NEMA CABINET SHOWN WITH COMM ELECTRICAL PANEL AND ITS EQUIPMENT CONFIGURATION. COMM ELECTRICAL PANEL DIMENSIONS ARE APPROXIMATE.

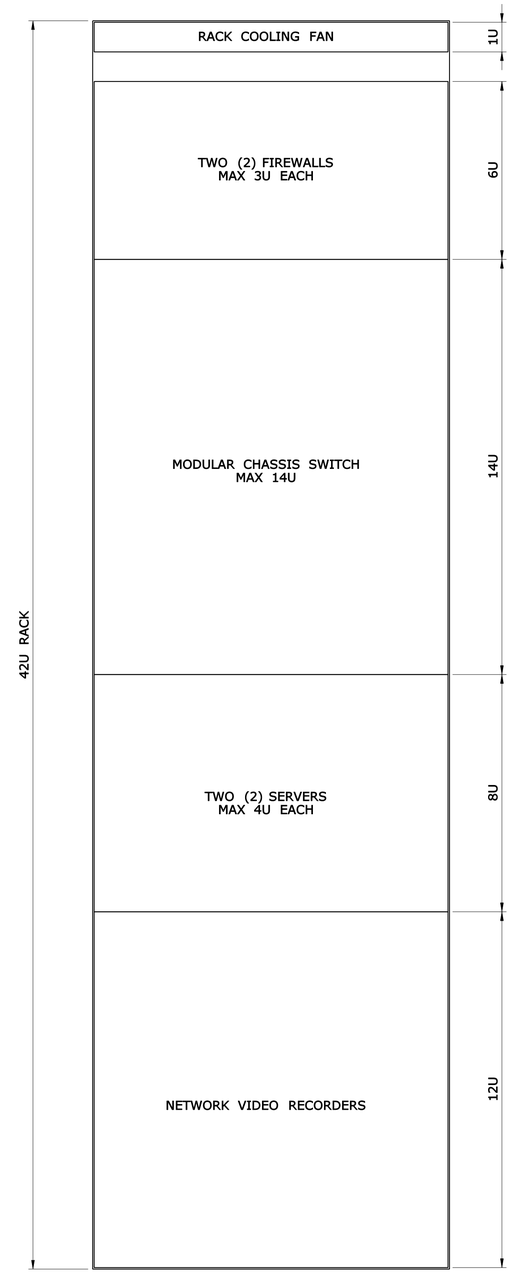
2. CONTRACTOR TO PROPOSE ACTUAL CABINET AND RACK CONFIGURATION FOR ENGINEER'S APPROVAL.

3. CONTRACTOR TO PROVIDE ADDITIONAL COOLING FANS AS NEEDED.

4. SEE SHEETS ITD-04 TO ITD-07 FOR TYPE AND QUANTITY OF ITS EQUIPMENT IN CABINETS BY STATION.



1 **COMMUNICATIONS CABINET EQUIPMENT INSTALLATION (TYP.)**



2 **BOC RACK CONFIGURATION (TYP.)**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: **LM/SM**
CHECKED BY: **CHP**

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..DET..088..179..ITD-22.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

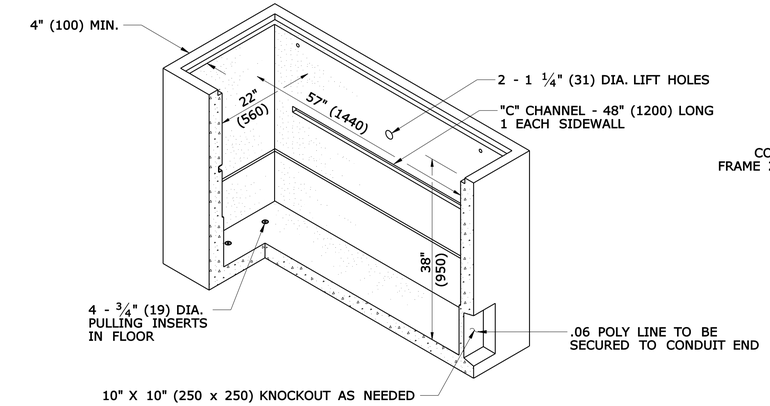
PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

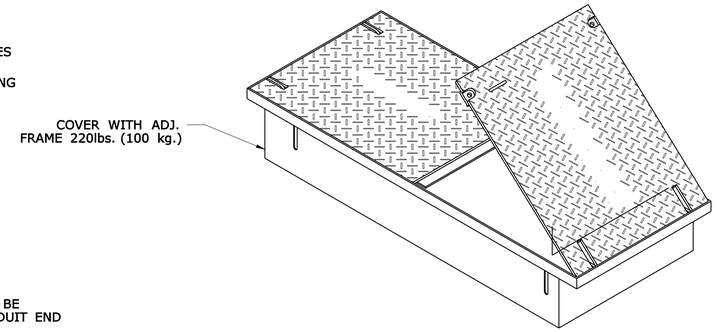
TOWN: **NEW BRITAIN TO HARTFORD**

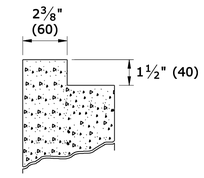
DRAWING TITLE: **COMM CABINET AND BOC RACK ELEVATION**

PROJECT NO. **088-179**
DRAWING NO. **ITD-22**
SHEET NO. **01.24.001**

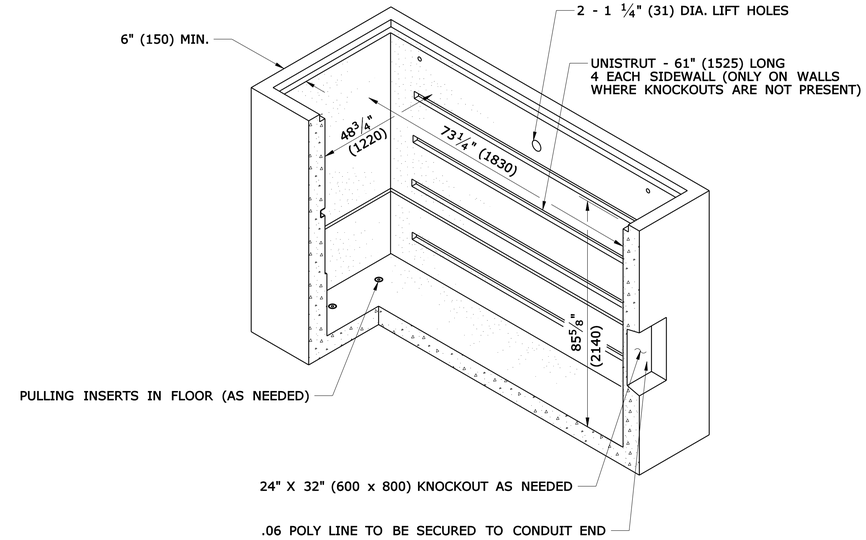
Border Version: 10/19/07

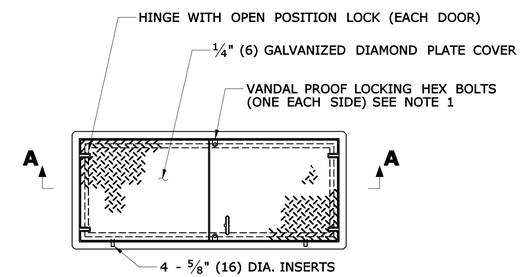




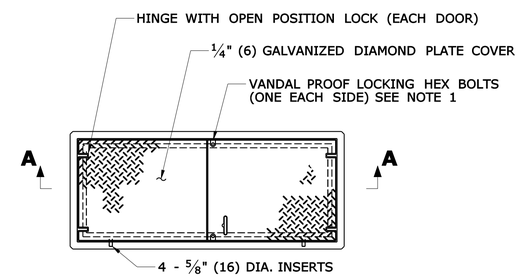


RECESSED COVER

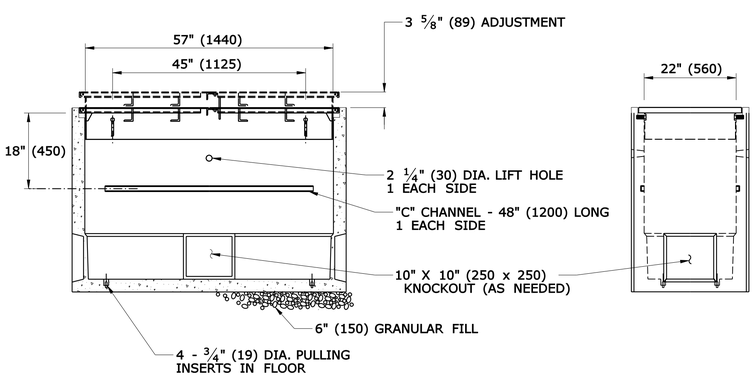




PLAN VIEW



PLAN VIEW



SECTION A-A

END VIEW

PULL BOX - DETAIL

NOTES

1. SUITABLE IN OFF-STREET LOCATIONS WHERE NOT SUBJECTED TO HIGH DENSITY TRAFFIC.

2. FOR EACH PULL BOX INSTALLED, ONE OF THE SPECIAL TOOLS REQUIRED TO OPEN THE HEX BOLTS SHALL BE PROVIDED TO THE STATE. COST OF TOOL IS INCLUDED IN THE ITEM FOR PULLBOX.

3. PULLBOXES SHALL BE INSTALLED SO THAT THE KNOCKOUTS ARE PARALLEL TO THE MIANLINE CONDUIT DIRECTION.

DESIGN CRITERIA

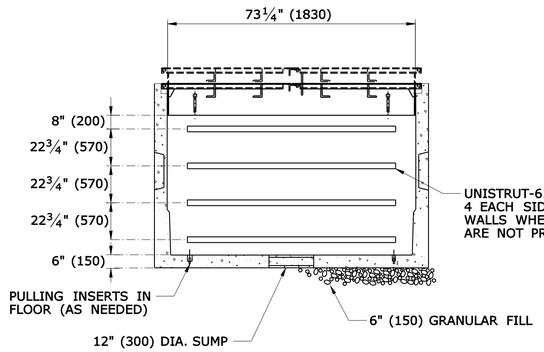
LIVE LOAD

PULLBOX AND COVER SHALL BE DESIGNED BY THE CONTRACTOR TO SUPPORT H2O LIVE LOAD, WITH 30% IMPACT.

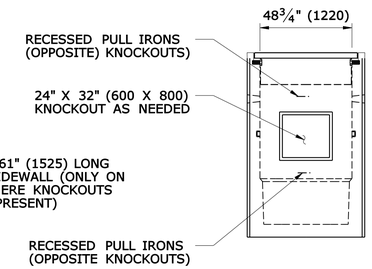
EARTH PRESSURE

AN EQUIVALENT FLUID PRESSURE (HORIZONTAL) OF NOT LESS THAN 53 lbs./S.F. (264 kg./Sq. m) SHALL BE USED FOR DESIGN. SITE CONDITIONS MAY NECESSITATE MODIFICATIONS TO THE EQUIVALENT FLUID PRESSURE (I.E. SLOPING, BACKFILL, WATER TABLE ETC.). THE CONTRACTOR IS RESPONSIBLE FOR EVALUATING SITE CONDITIONS WITH REGARDS TO DESIGN REQUIREMENTS.

FOR INFORMATION ONLY



SECTION A-A



END VIEW

VAULT - DETAIL

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..DET..088..179..ITD-23.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN TO HARTFORD

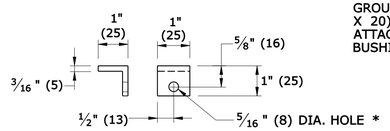
DRAWING TITLE: PULLBOX AND VAULT DETAILS

PROJECT NO. 088-179
DRAWING NO. ITD-23
SHEET NO. 01.25.001

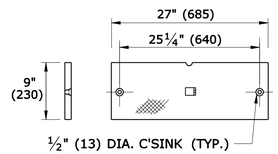
Border Version: 10/19/07

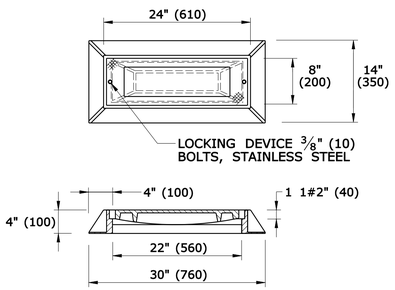
* NOTE:

ATTACH 6' (2 m) LENGTH OF NO. 8 GROUND WIRE TO GROUNDING TAB WITH ONE HOLE LUG, 1#4"-20 X3#4" (M6 X 20) LG. SST HEX HEAD BOLT, AND SST FLAT WAHSER. ATTACH FREE END OF GROUND WIRE TO CONDUIT BONDING BUSHING IN HANDHOLE.

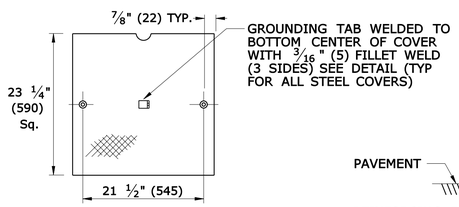


STEEL GROUNDING TAB



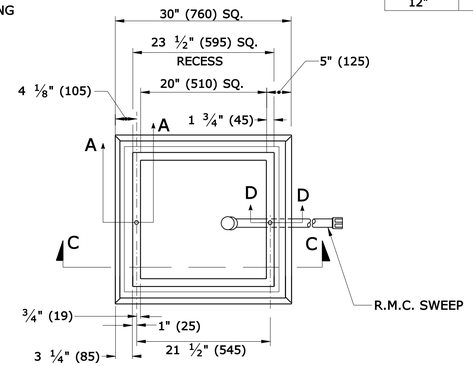


CAST IRON

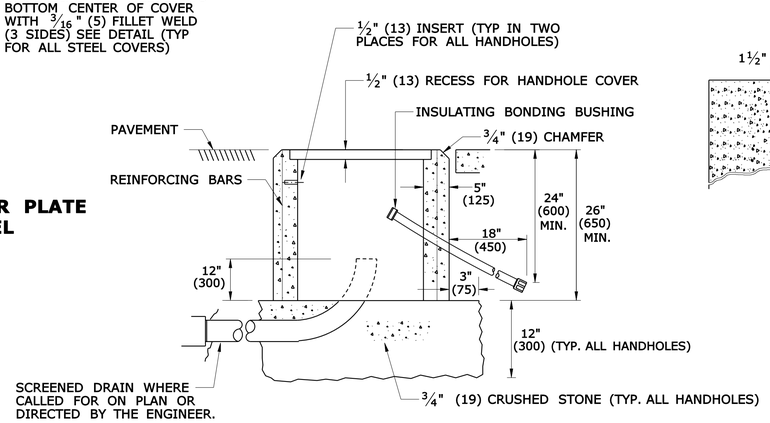


3/8" (10) NON SKID FLOOR PLATE GALVANIZED STEEL

HANDHOLE COVERS



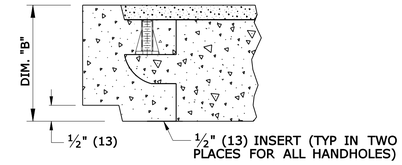
PLAN VIEW



SECTION "C-C"

CONCRETE HANDHOLE CLASS "A" CONCRETE

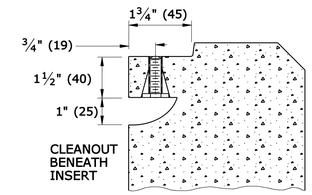
DIM. "B" CHART	
ENGLISH HEIGHT	METRIC HEIGHT
2"	50
4" SHOWN	100
6"	150
12"	300



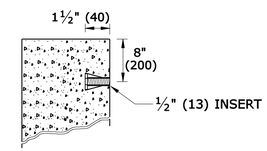
SECTION "A-A"

HANDHOLE EXTENSIONS

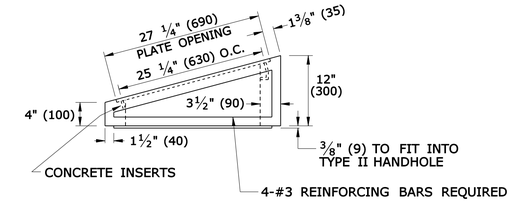
12 - #8 REINFORCING BARS REQ'D

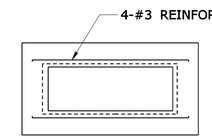


SECTION "D-D"



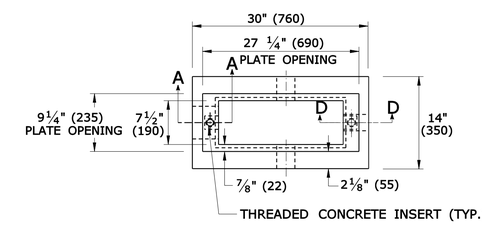
INSERT DETAIL

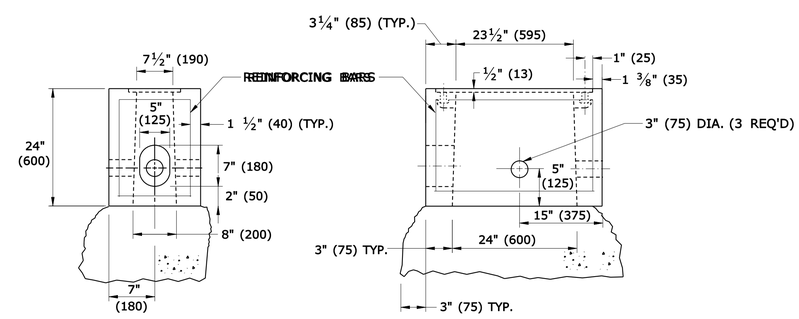




TOP VIEW DIMENSIONS AND SECTION VIEWS SAME AS CONCRETE HANDHOLE.

CONCRETE HANDHOLE TYPE II BANK ADAPTER





CONCRETE HANDHOLE TYPE II CLASS "C" CONCRETE

CONCRETE HANDHOLE NOTES:

1. BLOCK UNUSED OPENINGS OF HANDHOLE ON THE OUTSIDE WITH PRESSURE TREATED PLYWOOD.

2. GROUT AROUND ALL CONDUITS.

3. USE 1 1/2" X 3/8" (40 X 10) CONCRETE INSERT. STANDARD THREAD, STAINLESS STEEL, FLAT HEAD BOLT, RECESSED IN PLATE COVER. INSERTS TO HAVE CLEANOUTS.

4. TYPE II HANDHOLE 30" (760) SIDE INSTALLED PARALLEL TO ROAD UNLESS OTHERWISE NOTED.

5. WHERE AN EXISTING CONCRETE SIDEWALK SLAB ABUTTING A HANDHOLE IS DAMAGED OR CUT DURING INSTALLATION THE ENTIRE SECTION SHALL BE REPLACED.

6. 12-#3 REINFORCING BARS REQUIRED FOR ALL HANDHOLES.

FOR INFORMATION ONLY

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM
CHECKED BY: CHP

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_DET_088_179_ITD-24.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

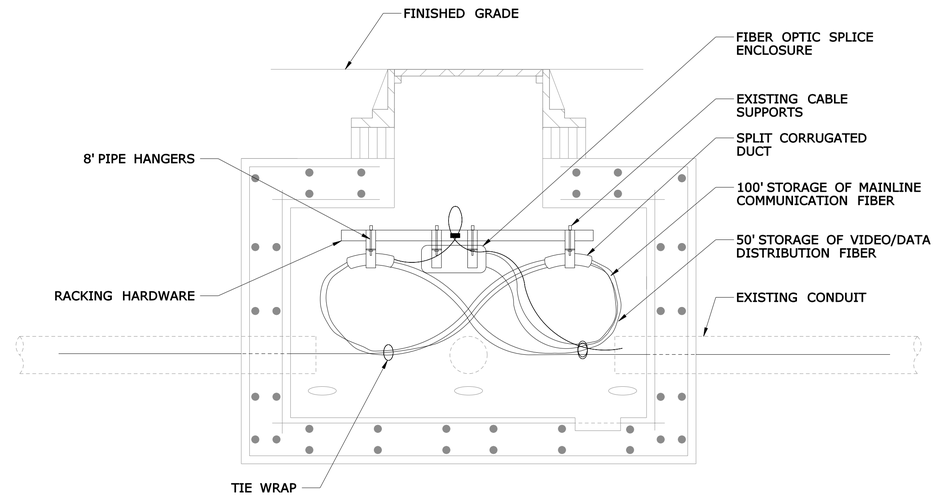
PROJECT TITLE: CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN TO HARTFORD

DRAWING TITLE: HANDHOLE DETAILS

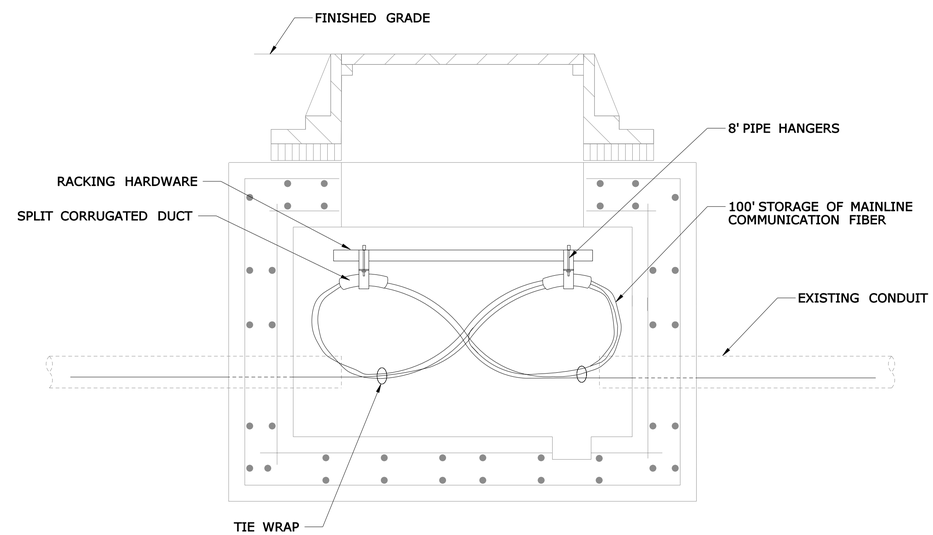
PROJECT NO. 088-179
DRAWING NO. ITD-24
SHEET NO. 01.26.001

Border Version: 10/19/07



TYPICAL SECTION VIEW

COMMUNICATION VAULT RACKING DETAIL
NOT TO SCALE



TYPICAL SECTION VIEW

COMMUNICATION PULL BOX SLACK STORAGE DETAIL
NOT TO SCALE

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: **LM/SM**
CHECKED BY: **CHP**

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..DET..088..179..ITD-25.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CT*fastrak*
ITS & COMMUNICATIONS SYSTEMS

TOWN: **NEW BRITAIN TO HARTFORD**

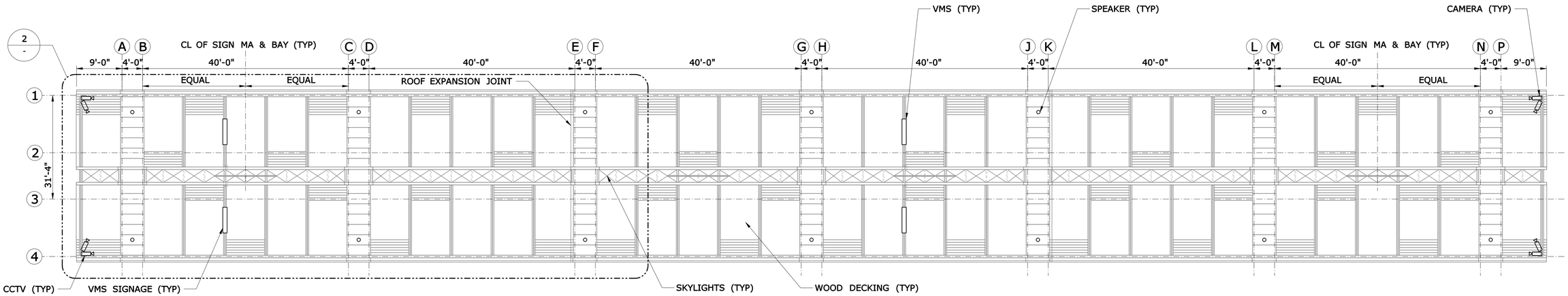
DRAWING TITLE: **FIBER STORAGE DETAILS**

PROJECT NO. **088-179**
DRAWING NO. **ITD-25**
SHEET NO. **01.27.001**

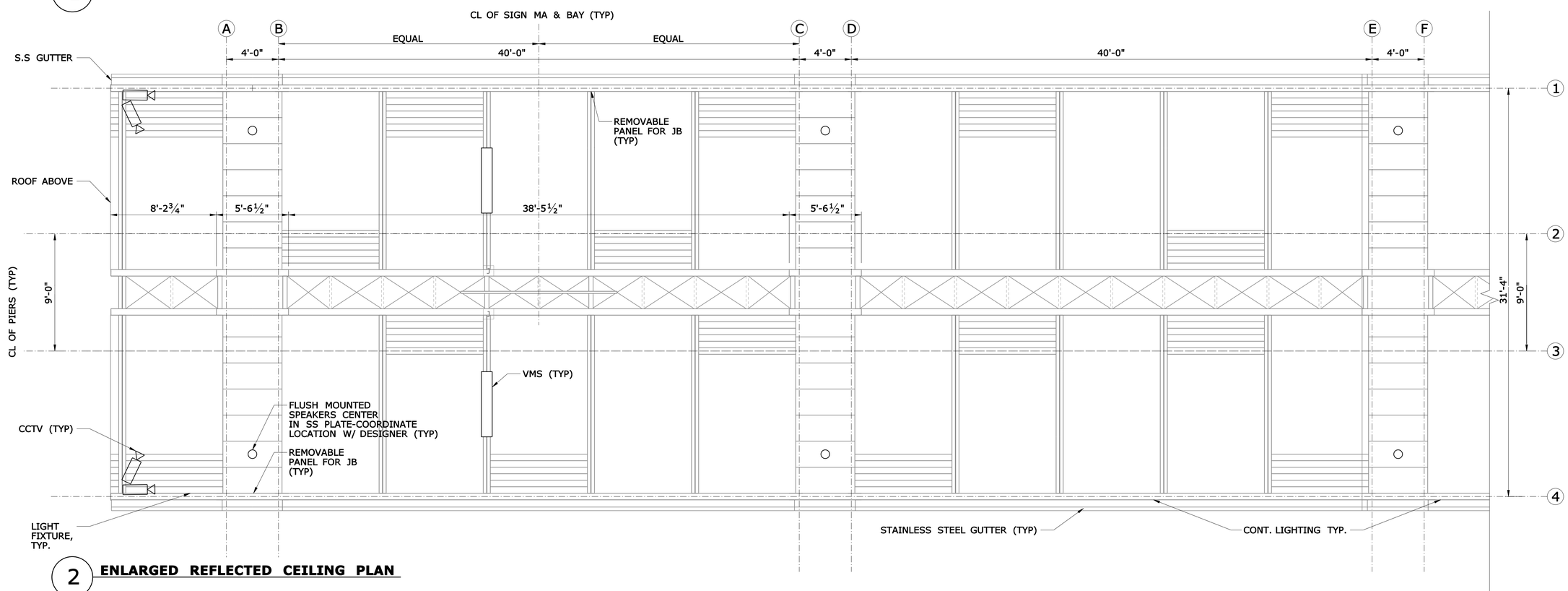
Border Version: 10/19/07

NOTES

1. ITS POWER AND CONDUIT EXISTING. SEE ITD-18 FOR CABLE ROUTING.



1 **DOWNTOWN NEW BRITAIN REFLECTED CEILING PLAN**



2 **ENLARGED REFLECTED CEILING PLAN**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: **LM/SM**

CHECKED BY: **CHP**

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_DET_088_179_ITD-26.dgn

IBI GROUP

IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA

tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:

CTfastrak

ITS & COMMUNICATIONS SYSTEMS

TOWN: **NEW BRITAIN TO HARTFORD**

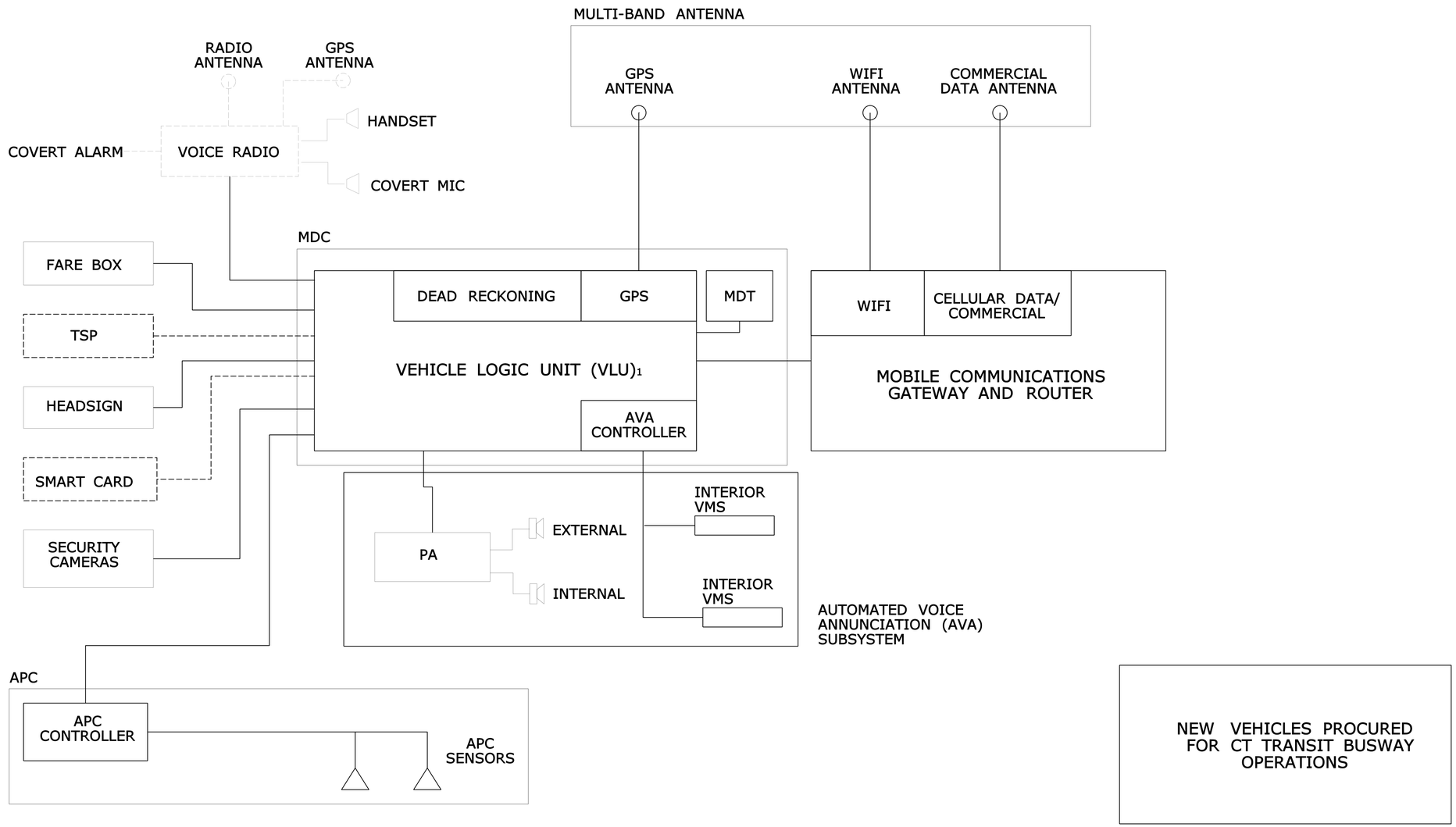
DRAWING TITLE: **DOWNTOWN NEW BRITAIN DETAIL**

PROJECT NO. **088-179**

DRAWING NO. **ITD-26**

SHEET NO. **01.28.001**

Border Version: 10/19/07



NEW VEHICLES PROCURED FOR CT TRANSIT BUSWAY OPERATIONS

[1] THE VLU INCLUDES AVL, AVA, OTHER FUNTIONALITY

[2] VARIABLE MESSAGE SIGN (VMS)

LEGEND

- INCLUDED AS PART OF VEHICLE PROCUREMENT
- NEW EQUIPMENT (BUSWAY ITS PROCUREMENT)
- NEW EQUIPMENT (CT TRANSIT SUBSCRIBER RADIO PROCUREMENT)
- POTENTIAL FUTURE EQUIPMENT
- ON-BOARD SYSTEMS INTERFACE (INCLUDED AS PART OF NEW VEHICLE PROCUREMENT)
- NEW INTERFACE (BUSWAY ITS PROCUREMENT)
- NEW INTERFACE (CT TRANSIT SUBSCRIBER RADIO PROCUREMENT)
- POTENTIAL FUTURE INTERFACE

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM

CHECKED BY: CHP

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..DET..088..179..ITD-27.dgn

IBI GROUP

IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA

tel 617 450 0701
fax 617 450 0702

PROJECT TITLE:
CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN TO HARTFORD

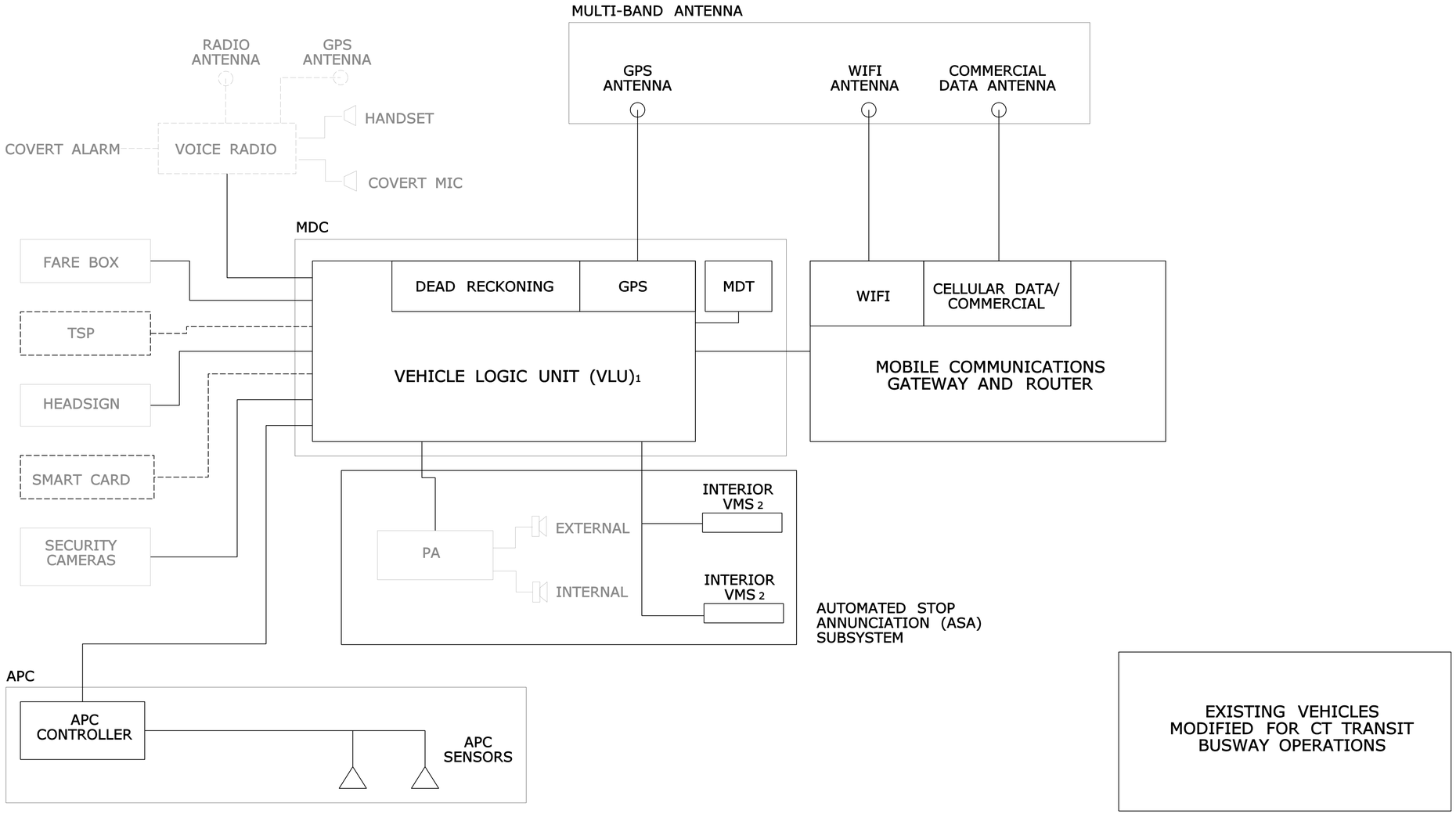
DRAWING TITLE: NEW VEHICLE EQUIPMENT DIAGRAM

PROJECT NO. 088-179

DRAWING NO. ITD-27

SHEET NO. 01.29.001

Border Version: 10/19/07



1 THE VLU INCLUDES AVL, ASA, OTHER FUNTIONALITY

2 VARIABLE MESSAGE SIGN

LEGEND

- EXISTING DEVICE / SYSTEM
- NEW EQUIPMENT (BUSWAY ITS PROCUREMENT)
- NEW EQUIPMENT (CT TRANSIT SUBSCRIBER RADIO PROCUREMENT)
- NEW POTENTIAL EQUIPMENT
- EXISTING ON-BOARD SYSTEM INTERFACE
- NEW INTERFACE (BUSWAY ITS PROCUREMENT)
- NEW INTERFACE (CT TRANSIT SUBSCRIBER RADIO PROCUREMENT)
- NEW POTENTIAL INTERFACE

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 9/20/2012

DESIGNER/DRAFTER: LM/SM

CHECKED BY: CHP

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR..MSH..DET..088..179..ITD-28.dgn

IBI GROUP
IBI Group
115 Broad Street-5th Floor
Boston MA 02110 USA
tel 617 450 0701
fax 617 450 0702

PROJECT TITLE: CTfastrak
ITS & COMMUNICATIONS SYSTEMS

TOWN: NEW BRITAIN TO HARTFORD

DRAWING TITLE: EXISTING VEHICLE EQUIPMENT DIAGRAM

PROJECT NO. 088-179

DRAWING NO. ITD-28

SHEET NO. 01.30.001

Border Version: 10/19/07