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Department of City Planning

August 7, 2019

Re: Geosupport System Software Version 19.3 / Release 19C

To: All Geosupport System Users

Geosupport System User Bulletin 19-03

Enclosed is the Geosupport System User Bulletin 19-03, which is comprised of three sections.

Section 1: Technical Information for Software Version 19.3/Release 19C

> **PLEASE NOTE:** IMPORTANT MAINFRAME AND MSW FORMAT
> ANNOUNCEMENTS ARE INCLUDED IN SECTION 1

Section 2: Release 19C Street Name/Code Deletions, Changes, and Additions
Section 3: Appendices

> (Please note: Block, Lot & BIN Counts for Release 19C are currently unavailable, but will be forwarded to users as soon as is possible.)

Section 1:   As mentioned above, IMPORTANT MAINFRAME AND MSW FORMAT ANNOUNCEMENTS are described.

The technical information discusses system enhancements included in software Version 19.3. Technical information is intended primarily for technical personnel responsible for designing, developing and maintaining computer applications that access the Geosupport System; however, all Geosupport users should review these enhancements to determine if they would be useful in their use of Geosupport.   **Version 19.3 is scheduled to be promoted to the production CICS and batch regions on the DoITT mainframe on or around August 25, 2019 - with Geosupport Release 19C files as a "coordinated" release.   Version 19.3 and Release 19C are available now (August 7, 2019) in the <u>test region</u> on the mainframe.   Users are asked to carefully test this coordinated release soon after receiving this bulletin.   All problems should be reported to DCP as soon as possible.**

To access the new software and data files in the test environment for batch processing, please make sure the following load libraries are the first two lines in your list of STEPLIB DD cards (in this order):

```
//STEPLIB    DD DSN=A030.GEO.SUPPORT.TEST.PDSE.LOADLIB,DISP=SHR
//           DD DSN=A030.GEO.SUPPORT.TEST.LOADLIB,DISP=SHR
```

To access CICS GOAT, please sign onto CSCTEST and use GOAT.

To test CICS applications in the CSCTEST region, please make sure the following load libraries are listed first in your list of CICS STEPLIB DD cards:

```
//STEPLIB    TOCMVSP.USER.GEOT.PDSE.LOADLIB
//           TOCMVSP.USER.GEOT.LOADLIB
```

Please note that users who opt to make these changes to their JCL for testing purposes (only) should restore their previous JCL settings upon completion.

If you have any technical questions, please contact GSS_Software@planning.nyc.gov .

Section 2:   Release 19C street name/code deletions, changes, and additions.   This section informs users of all Street Name Dictionary (SND) modifications included in the release.   Users are invited to provide comments on these modifications, or other data issues to: GSS_Feedback@planning.nyc.gov

Section 3:   These appendices include a table of Geosupport functions, a list of Geosupport return codes and messages, and other tables, listings, and reference information as applicable.

Geosupport Desktop Edition™ will be available for download from the agency's website on or around August 26, 2019. By subscribing to the RSS feed, users will be notified once the update is available. Users can subscribe here: http://www1.nyc.gov/assets/planning/rss/products_rss.xml

A complete set of documentation is included with the free download of the software.

The most recent version of the Geosupport System User Programming Guide (UPG) is always available for viewing or download here: https://nycplanning.github.io/Geosupport-UPG/

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2

User Bulletin 19-03
Software Version 19.3
Coordinated Release 19C

SECTION 1: TECHNICAL INFORMATION - Software Version 19.3/Release 19C

Target audience: All Geosupport users

*** IMPORTANT MAINFRAME ANNOUNCEMENT ***

Beginning with this version of Geosupport, viz. V19.3, **enhancements to Geosupport (such as new fields and new functions) will be available and supported only for applications running in a non-mainframe environment**, e.g. Desktop Edition, GeoX, .net, and Linux. Enhancements to Geosupport will continue to be implemented for non-mainframe environments.

It is important for users to convert any existing mainframe applications to a non-mainframe environment.

*** UPDATED IMPORTANT MSW ANNOUNCEMENT ***

As of January 1, 2020, Mainframe-Specific Work Areas (MSWs) will no longer be supported. Character-Only Work Areas (COWs) will continue to be supported. COWs will be enhanced only in a non-mainframe environment. It is important for users to convert any existing MSW applications to the COW format in a non-mainframe environment.

V19.3 / R19C Enhancements

Note: All V19.3 / R19C enhancements are available and supported in <u>COW non-mainframe environments (NMF) only.</u>

The principal enhancements to Geosupport for **Geosupport Software Version 19.3**/**Release 19C** include:

- **(NMF only) A new field** is returned to the user.

    - **Truck Route Type**

The possible route types are 'local', 'limited local' and 'through'.
(Functions 1/1E Extended, 1B, 3 Extended, 3C Extended, 3 Enhanced,
3C Enhanced) [1]

- **(NMF only) New Mode Switch of E (Enhanced) for Function 3 and 3C supports B7SCs**

  - The new mode supports and returns more B7SCs (Borough and 7-digit street codes) instead of B5SCs.
  - The mode E functions are referred to as Function 3 Enhanced (or 3E) and Function 3C Enhanced (or 3CE).

- **System fine-tuning and bug fixes** were implemented.

  - **Function 3 returns more precise results**
    Segments that previously were rejected are now accepted.
    (All COW Function 3 related calls)

Included in this document is the following:

- User Programming Considerations

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[1] Enhanced Function 3 and Function 3C are announced in the next item.

USER PROGRAMMING CONSIDERATIONS

*** IMPORTANT MAINFRAME ANNOUNCEMENT***

Beginning with this version of Geosupport, viz. V19.3, **enhancements to Geosupport (such as new fields and new functions) will be available and supported only for applications running in a non-mainframe environment**, e.g. Desktop Edition, GeoX, .net, and Linux. Enhancements to Geosupport will continue to be implemented for non-mainframe environments.

It is important for users to convert existing applications to the COW format in a non-mainframe environment.

*** UPDATED IMPORTANT MSW ANNOUNCEMENT ***

A**s of January 1, 2020, Mainframe-Specific Work Areas (MSWs) will no longer be supported**. As mentioned above, as of Version 19.3, COW Work Areas will no longer be enhanced in the mainframe environment. It is therefore **important for users to convert all existing MSW applications to the COW format in a non-mainframe environment**.

User-written application programs and GBAT utilities that use the MSW format will continue to run for a period of time after January 1, 2020, but no technical support will be available. If an issue arises, users will not be able to call DCP for resolution.

To assist users in the conversion to COW format, Appendix 12 of the Geosupport User Programming Guide contains information needed to create applications that use the COWs. Appendix 13 contains the COW Work Area Layouts and Appendix 14 contains the COW copy files.

Any further issues may be directed via email to: GSS_Software@planning.nyc.gov

V19.3 / R19C ENHANCEMENTS

Note: All V19.3 / R19C enhancements are available and supported only when running COW applications in a non-mainframe environment (NMF).

    I.   **(NMF Only) A new field** is returned to the user.

- **Truck Route Type**
  This one-byte field indicates the type of truck route that is designated at the segment or block face.

Value	Truck Route Type
1	Limited Local Truck Route
2	Local Truck Route
3	Through Truck Route
Blank	Non-Designated Route

The **Local Truck Route** Network is designated for trucks with an origin and destination within a borough. This includes trucks that are traveling to make a delivery, or for loading or servicing. Trucks should only use N**on-Designated routes** at the beginning or end of a trip, when traveling between their origin/destination and a truck route.

The **Through Truck Route** Network is primarily composed of major urban arterials and highways and must be used by trucks that have neither an origin or destination within the borough.

Manhattan and Staten Island contain **Limited Truck** Zones with special time and size restrictions. Please refer to Section 4-08 (pdf) of the New York City Traffic Rules for more information.

For more information follow this Department of Transportation (DOT) link: https://www1.nyc.gov/html/dot/html/motorist/truckrouting.shtml

- **The Truck Route Type** field is returned by Functions 1/1E Extended, 1B, 3 Extended and 3C Extended. This field is also returned by Functions 3 Enhanced (i.e. Mode of E) and 3C Enhanced (i.e. Mode of E). (Mode of E is described elsewhere in this document.)

The following table indicates the length and location of the Truck Route Type field in COW Work Area 2.

Truck Route Type Work Area 2 COW – Non-Mainframe Environment			
Function	**Field**	**Length**	**Position**
1/1E Extended	Truck Route Type	1	761
1B	Truck Route Type	1	761
3 Extended	Truck Route Type	1	808
3C Extended	Truck Route Type	1	564
3 Enhanced	Truck Route Type	1	354
3C Enhanced	Truck Route Type	1	354

The following table indicates the field name used in the languages supported by Geosupport in the non-mainframe environment.

Truck Route Type Field Name in Non-Mainframe Environment	
Function(s) **(COW Only)**	**Field Name**
1/1E Extended, 1B, 3X, 3CX, 3E, 3CE	`truck_route_type`

Truck Route Type field is returned to user applications in a non-mainframe environment, e.g.:

- Desktop Edition
- GeoX (.Net and Java)[2]
- Linux

As of this writing, Truck Route Type is <u>not</u> displayed on:
- Web version GOAT
- Desktop Edition GBAT

Truck Route Type will <u>not</u> be available on:
- Mainframe Batch and CICS
- Mainframe GOAT (CICS)
- Mainframe GBAT
- Desktop Edition GOAT[3]

II. **(NMF Only) New Mode Switch of E (Enhanced) for Functions 3 and 3C supports B7SCs**

Function 3 with Mode E returns more B7SCs (Borough and 7-digit street codes) instead of B5SCs, e.g. in the list of cross streets at the low address end and the high address end of the segment. This gives the user easier access to a finer definition of the streets.

The mode E functions are referred to as Function 3 Enhanced (or 3E) and Function 3C Enhanced (or 3CE).

Mode Switch E is supported in non-mainframe environments, e.g.
- Desktop Edition
- GeoX (.Net and Java)[4]
- Linux

As of this writing, Mode Switch E is <u>not</u> supported on:
- Desktop Edition GBAT

Mode Switch E will not be available on
- Mainframe Batch and CICS
- Mainframe GOAT (CICS)
- Mainframe GBAT

III. **System fine-tuning** and bug fixes were implemented.

- **Function 3 returns more precise data and accepts more calls**

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[2] GeoX is a powerful tool developed to assist users in connecting to Geosupport via .Net and Java wrapper classes. Users can process and geocode data files (such as a customer address list) either in batch or in an interactive mode. Geosupport will return geographic information as well as administrative and political districts based on each input location.

[3] Desktop GOAT is no longer being enhanced, so this field will not be displayed.

[4] GeoX is a powerful tool developed to assist users in connecting to Geosupport via .Net and Java wrapper classes. Users can process and geocode data files (such as a customer address list) either in batch or in an interactive mode. Geosupport will return geographic information as well as administrative and political districts based on each input location.

Improvements to Function 3 data processing have resulted in more Geosupport calls being accepted. This improvement applies to all Function 3 related calls, e.g. Function 3 Extended, Function 3 Enhanced, Function 3C etc.

There are no programming considerations relating to this topic.

SECTION 2:   GEOSUPPORT RELEASE 19C STREET NAME/CODE DELETIONS, CHANGES, AND ADDITIONS

Release 19C includes street name/code deletions, changes, and additions as well as changes to property-related, building-related, and other types of geography.

Users who store Geosupport street codes or certain other volatile geographic identifiers obtained from Geosupport, such as tax lot identifiers (Borough/Block/Lot or BBL) and/or Building Identification Numbers (BINs), segment identification numbers, or node identification numbers in their own application files should update those files to reflect changes contained in each Geosupport release. Users can accomplish such 're-synchronizing' either by using the Geosupport 'stand-alone' batch utility program GBAT, or by means of a user-written batch program that calls Geosupport via its Application Programming Interface (API).

Re-synchronizing should be done as soon as possible after confirming the installation of the latest Geosupport release at the data center where the application runs. Users whose applications run at data centers other than DoITT should verify that the latest release (in this case, Release 19C) has been installed before re-synchronizing, since the installation of new Geosupport releases at the non-DoITT data centers is at the discretion of each facility.

Street code re-synchronizing in particular is important in applications that use stored street codes as a key to retrieve data from the application file by geographic location. To facilitate automated street code re-synchronizing, a special Geosupport file called the Street Code Change File is created with each new release of Geosupport (see *Geosupport User Programming Guide*, Section IV.4). The importance of re-synchronizing with each Geosupport release and the consequences to the application of failing to do so are also explained in *Geosupport User Programming Guide*, Section IV.4.

Enclosed for your review are lists of the Release 19C street name/code deletions, changes, and additions. These deletions are necessary to delete invalid names, while additions are necessary to add street names and street codes for new streets, and to add new alternative street names and street name spelling variants for existing streets. Street code changes are made to reflect necessary street name/code reassignments or to correct errors in the assignment of street codes to street names. A more detailed explanation of street name and street code changes can also be found in the *Geosupport System User Programming Guide*, Chapter IV. Please note that some names are added to a release in anticipation of adding the corresponding geography to a future release; therefore, some place names and street names may be unavailable in this release.

Please provide any comments on the street name/street code deletions, changes, or additions included in Release 19C to: GSS_Feedback@planning.nyc.gov

Street Name/Code Deletions

BORO	STREET NAME DELETIONS	STREET CODE
1	BK MARINE TERMINAL 8	0104707030
1	HIGH BR PED OV I 87 HRLM RIV	2295001050
1	PIERS 35 & 36	3063201040
1	PIERS 35 AND 36	3063201030
2	E 174 ST BR PED AND BIKE PATH	2688007010
2	E 174 ST BRIDGE PED & BIKE PATH	2688007040
2	E 174 STREET BR PED & BIKE PATH	2688007030
2	EAST 174 ST BR PED & BIKE PATH	2688007020
2	WHITE PLACE ROAD	7715001020
4	USTA OUTDOOR COURTS 11-16	1323557010
4	USTA OUTDOOR COURTS 4-5	1323559010
4	USTA OUTDOOR COURTS 6-10	1323558010

Street Name/Code Changes

BORO	OLD ST. CODE	STREET NAMES	NEW ST. CODE
1	0112501010	CNTRL PK W 110 ST EN OV PED PTH	9726002020
1	3063201010	PIER 35	0119501010
1	3063202010	PIER 35 EMS BUILDING	0119502010
1	3063203020	PIER 35 POLICE OFFICE	0119503020
1	3063203010	PIER 35 POLICE OFFICES	0119503010
1	1375036010	SUNKEN MEADOW FIELD 46	1379012010
1	1375037010	SUNKEN MEADOW FIELD 47	1379013010
1	1375038010	SUNKEN MEADOW FIELD 48	1379014010
1	0112501020	W 110 ENTR OV PED PTH OP W 109	9726002030
1	0113401010	W 173 PDBR OV AMTRK 30 BRNH	9751041100
1	0113401020	W 173 PED BR OV AMTRAK 30 BRN	9751041110
2	4580002040	CARMAN HALL	4580002020
2	4580002030	LEHMAN COLLEGE CARMAN HALL	4580002010
2	4580002050	LEHMAN COLLEGE IT CENTER	4580002030
2	6744029100	MARITIME COLL DORMITORIES E & F	6744040090
2	6744029090	MARITIME COLL DORMITORY E AND F	6744040080
2	6744029030	MARITIME COLLEGE DORM E	6744040030
2	6744029020	MARITIME COLLEGE DORM F	6744040020
2	6744029060	MARITIME COLLEGE DORMITORY E	6744040050
2	6744029050	MARITIME COLLEGE DORMITORY F	6744040040
2	6744029070	MARITIME COLLEGE E DORM	6744040060
2	6744029080	MARITIME COLLEGE E DORMITORY	6744040070
2	6744029120	MARITIME RESIDENCE HALL E & F	6744040110
2	6744029110	MARITIME RESIDENCE HALL E AND F	6744040100
4	1486502010	PUBLIC PL/IDLEWILD PARK PRESERVE	1486501020
4	1323555020	USTA COURT 17 & FOOD VILLAGE	0046510020
4	1323555030	USTA COURT 17 AND FOOD VILLAGE	0046510030
4	1323555010	USTA COURT 17 STADIUM	0046510010
4	1323555040	USTA FOOD VILLAGE	0046533020
4	1323561010	USTA MERCHANDISE PAVILION	0046509010
4	1323560020	USTA TRANSP BUILDING WEST GATE	0046508020
4	1323560010	USTA TRANSPORTATION BLDG W GATE	0046508010

Street Name/Code Additions

BORO	STREET NAME ADDITIONS	STREET CODE
1	APPEL ROOM	2500615040
1	BRONX SHORE FIELD 46	1379012020
1	BRONX SHORE FIELD 47	1379013020
1	BRONX SHORE FIELD 48	1379014020
1	C FRAZIER JUNIOR BOULEVARD	1061005080
1	CLYDE FRAZIER JUNIOR BOULEVARD	1061005070

Street Name/Code Additions

BORO	STREET NAME ADDITIONS	STREET CODE
1	CTL PK W DR OV 79 ST TRNVS RD	0105301020
1	FF ROBERT JOSEPH FOTI WAY	1501002240
1	FRAZIER JUNIOR BOULEVARD	1061005090
1	GARVEY PARK PATH	0120101010
1	HIGH BRIDGE PARK PATH	0119801010
1	ISHAM PARK PATH	0119701010
1	JACKIE ROBINSON PARK BANDSHELL	1156005010
1	JACKIE ROBINSON PARK PLGD 149	1156004020
1	JACKIE ROBINSON PARK PLGD 152	1156008010
1	JACKIE ROBINSON PARK POOL	1156003010
1	JACKIE ROBINSON PARK REC CENTER	1156002010
1	JACKIE ROBINSON PK BASEBALL FLDS	1156006010
1	JACKIE ROBINSON PK BASKETBALL CT	1156007010
1	JACKIE ROBINSON PLAYGROUND 149	1156004030
1	JACKIE ROBINSON PLAYGROUND 152	1156008050
1	JACKIE ROBINSON PLGD 149	1156004040
1	JACKIE ROBINSON PLGD 152	1156008060
1	JACKIE ROBINSON POOL	1156003020
1	JACKIE ROBINSON REC CENTER	1156002020
1	JACKIE ROBINSON RECREATION CTR	1156002030
1	MANHATTAN WEST	0119901010
1	MARCUS GARVEY PARK PATH	0119601010
1	PLAYGROUND 149	1156004090
1	PLAYGROUND 152	1156008100
1	PLAYGROUND ONE FIFTY TWO	1156008040
1	PLAYGROUND ONE FIFTY-TWO	1156008110
1	PLAYGROUND ONE FORTY NINE	1156004010
1	PLAYGROUND ONE FORTY-NINE	1156004100
1	PLGD ONE FIFTY TWO	1156008090
1	PLGD ONE FIFTY-TWO	1156008120
1	PLGD ONE FORTY NINE	1156004080
1	PLGD ONE FORTY-NINE	1156004110
1	ROBINSON PARK BANDSHELL	1156005030
1	ROBINSON PARK BASEBALL FIELDS	1156006020
1	ROBINSON PARK BASKETBALL COURT	1156007020
1	ROBINSON PARK PLAYGROUND 152	1156008020
1	ROBINSON PARK PLGD 152	1156008030
1	ROBINSON PARK POOL	1156003030
1	ROBINSON PARK REC CENTER	1156002050
1	ROBINSON PARK RECREATION CENTER	1156002040
1	ROBINSON PLAYGROUND 149	1156004060
1	ROBINSON PLAYGROUND 152	1156008070
1	ROBINSON PLGD 149	1156004070
1	ROBINSON PLGD 152	1156008080
1	ROBINSON PLGD ONE FORTY NINE	1156004050
1	ROBINSON POOL	1156003040
1	ROBINSON REC CENTER	1156002060
1	ROBINSON RECREATION CENTER	1156002070
1	THE APPEL ROOM	2500615030
2	BARETTO POINT PARK GREENWAY	0077401010
2	BARETTO POINT PARK PATH	0077901010
2	CONCRETE PLANT PARK PATH	0077801010
2	E 174 ST BR N PED & BIKE PATH	2688008020
2	E 174 ST BR S PED & BIKE PATH	2688009020
2	FRANZ SIGEL PARK PATH	0077601010
2	J MULLALY PARK SKATE PARK	1205003050
2	J MULLALY PARK SOCCER FIELD 2	1205013040
2	J MULLALY SOCCER FIELD 2	1205013030
2	JOHN MULLALY PARK SKATE PARK	1205003060
2	JOHN MULLALY PRK SOCCER FLD 2	1205013060
2	JOHN MULLALY SOCCER FIELD 2	1205013020

Street Name/Code Additions

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BORO                 STREET NAME ADDITIONS               STREET CODE
-------------------------------------------------------------------------
2                    LEE HALL                            4871015070
2                    MANHATTAN COLLEGE LEE HALL          4871015060
2                    MARITIME COLL DORMINTORY G & H      6744041110
2                    MARITIME COLL DORMITORY G AND H     6744041010
2                    MARITIME COLLEGE DORM G             6744041020
2                    MARITIME COLLEGE DORM H             6744041030
2                    MARITIME COLLEGE DORMITORY G        6744041040
2                    MARITIME COLLEGE DORMITORY H        6744041050
2                    MARITIME COLLEGE E & F DORM         6744040150
2                    MARITIME COLLEGE E AND F DORM       6744040140
2                    MARITIME COLLEGE F DORM             6744040120
2                    MARITIME COLLEGE F DORMITORY        6744040130
2                    MARITIME COLLEGE G DORM             6744041060
2                    MARITIME COLLEGE G DORMITORY        6744041080
2                    MARITIME COLLEGE H DORM             6744041070
2                    MARITIME COLLEGE H DORMITORY        6744041090
2                    MARITIME RESIDENCE HALL G & H       6744041120
2                    MARITIME RESIDENCE HALL G AND H     6744041100
2                    MULLALY PARK SKATE PARK             1205003040
2                    MULLALY PARK SOCCER FIELD 2         1205013010
2                    MULLALY SOCCER FIELD 2              1205013050
3                    ADAM VANESKI WALK                   1953003060
3                    ADAM VENESKI WALK                   1953003040
3                    MCCARREN PARK PATH                  0086201010
3                    NOTORIOUS BIG WAY                   8023003030
3                    VANESKI WALK                        1953003070
3                    VENESKI WALK                        1953003050
4                    ASTORIA PARK PATH                   0063001010
4                    BAYSIDE MARINA ACCESS ROAD          0062901010
4                    BJK NATIONAL TENNIS CTR COMPLEX     0046501320
4                    BJK TENNIS CENTER COMPLEX           0046501310
4                    CHASE CENTER                        0046504090
4                    NATIONAL TENNIS CENTER COMPLEX      0046501300
4                    SEAVER WAY                          2169002010
4                    TOM SEAVER WAY                      2169002020
4                    US NATIONAL TENNIS CTR COMPLEX      0046501250
4                    US TENNIS CENTER COMPLEX            0046501260
4                    USTA A ASHE CENTER                  0046502240
4                    USTA A ASHE STADIUM                 0046502220
4                    USTA A ASHE TENNIS STADIUM          0046502230
4                    USTA ARMSTRONG CENTER               0046503240
4                    USTA ARMSTRONG STADIUM              0046503210
4                    USTA ARMSTRONG TENNIS CENTER        0046503230
4                    USTA ARMSTRONG TENNIS STADIUM       0046503220
4                    USTA ARTHUR ASHE CENTER             0046502170
4                    USTA ARTHUR ASHE STADIUM            0046502140
4                    USTA ARTHUR ASHE TENNIS CENTER      0046502150
4                    USTA ARTHUR ASHE TENNIS STADIUM     0046502160
4                    USTA ASHE CENTER                    0046502210
4                    USTA ASHE STADIUM                   0046502180
4                    USTA ASHE TENNIS CENTER             0046502190
4                    USTA ASHE TENNIS STADIUM            0046502200
4                    USTA B J KING TENNIS CTR COMPLEX    0046501280
4                    USTA BILLIE JEAN KING COMPLEX       0046501330
4                    USTA BILLIE JEAN KING NTC CMPLX     0046501270
4                    USTA BOX OFFICE                     0046515020
4                    USTA BROADCAST BUILDING             0046511010
4                    USTA CHASE CENTER                   0046504030
4                    USTA CHILLER BUILDING               0046512010
4                    USTA COURT 4                        0046507010
4                    USTA COURT 5                        0046518010
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Street Name/Code Additions

BORO	STREET NAME ADDITIONS	STREET CODE
4	USTA COURT 6	0046519010
4	USTA COURT 7	0046506010
4	USTA COURT 8	0046520010
4	USTA COURT 9	0046521010
4	USTA COURT 10	0046522010
4	USTA COURT 11	0046505010
4	USTA COURT 12	0046523010
4	USTA COURT 13	0046524010
4	USTA COURT 14	0046525010
4	USTA COURT 15	0046526010
4	USTA COURT 16	0046527010
4	USTA COURT 17	0046510040
4	USTA COURT P 1	0046528010
4	USTA COURT P 2	0046529010
4	USTA COURT P 3	0046530010
4	USTA COURT P 4	0046531010
4	USTA COURT P 5	0046532010
4	USTA EAST GATE	0046538010
4	USTA EAST PLAZA	0046534010
4	USTA FMCP INDOOR TRAINING CENTER	0046504080
4	USTA FOOD COURT	0046533010
4	USTA GRANDSTAND	0046516010
4	USTA GRANDSTAND STADIUM	0046516020
4	USTA INDOOR TRAINING CENTER	0046504020
4	USTA INDOOR TRAINING CTR FOOD CT	0046504050
4	USTA KING TENNIS CENTER COMPLEX	0046501290
4	USTA L ARMSTRONG CENTER	0046503280
4	USTA L ARMSTRONG STADIUM	0046503250
4	USTA L ARMSTRONG TENNIS CENTER	0046503260
4	USTA L ARMSTRONG TENNIS STADIUM	0046503270
4	USTA LOUIE ARMSTRONG CENTER	0046503300
4	USTA LOUIE ARMSTRONG STADIUM	0046503290
4	USTA LOUIE ARMSTRONG TENNIS CTR	0046503310
4	USTA LOUIS ARMSTRONG CENTER	0046503200
4	USTA LOUIS ARMSTRONG STADIUM	0046503180
4	USTA LOUIS ARMSTRONG TENNIS CTR	0046503190
4	USTA MERCHANDISE EMIRATES	0046513010
4	USTA MERCHANDISE MERCEDES	0046514010
4	USTA MERCHANDISE-EMIRATES	0046513020
4	USTA NATIONAL TENNIS CTR COMPLEX	0046501240
4	USTA PARKING LOT A	0046536010
4	USTA PARKING LOT B	0046539010
4	USTA PRACTICE COURT 1	0046528020
4	USTA PRACTICE COURT 2	0046529020
4	USTA PRACTICE COURT 3	0046530020
4	USTA PRACTICE COURT 4	0046531020
4	USTA PRACTICE COURT 5	0046532020
4	USTA PRACTICE COURTS	0046541010
4	USTA PRESIDENT'S GATE	0046535010
4	USTA PRESIDENTS GATE	0046535020
4	USTA SOUTH CAMPUS	0046517010
4	USTA SOUTH CAMPUS 9	0046521020
4	USTA SOUTH CAMPUS COURT 7	0046506020
4	USTA SOUTH CAMPUS COURT 8	0046520020
4	USTA SOUTH CAMPUS COURT 10	0046522020
4	USTA SOUTH CAMPUS COURT 11	0046505020
4	USTA SOUTH CAMPUS COURT 12	0046523020
4	USTA SOUTH CAMPUS COURT 13	0046524020
4	USTA SOUTH CAMPUS COURT 14	0046525020
4	USTA SOUTH CAMPUS COURT 15	0046526020
4	USTA SOUTH CAMPUS COURT 16	0046527020

Street Name/Code Additions

```
BORO                 STREET NAME ADDITIONS              STREET CODE
-----------------------------------------------------------------------
4                    USTA SOUTH CAMPUS COURTS           0046517020
4                    USTA SOUTH GATE                    0046537010
4                    USTA TENNIS CENTER COMPLEX         0046501230
4                    USTA TICKET OFFICE                 0046515010
4                    USTA TRANSPORTATION BUILDING       0046508030
4                    USTA WEST COURT 4                  0046507020
4                    USTA WEST COURT 5                  0046518020
4                    USTA WEST COURT 6                  0046519020
4                    USTA WEST COURTS                   0046540010
5                    EMMA WAY                           0040601010
5                    PLATINUM AVENUE EB ROADBED         4350802010
5                    YUKON AVENUE EASTBOUND ROADBED     5662502010
```

SECTION 4: APPENDICES

Appendix A: TABLE OF GEOSUPPORT FUNCTIONS

Function	User Input	Selected Geosupport Output Items
1 & 1 Extended (a.k.a. 1X)	Address	Standardized Street Name and Street Code, Address Range, List of Cross Streets, ZIP Code, Community District, Health Area, Health Center District, 1990 Census Tract, 2000 and 2010 Census Tract and Block, Fire Engine or Ladder Company, School District, Police Precinct, DSNY District and Schedule, X-Y Coordinates (based on the State Plane Coordinate System), Latitude & Longitude in 1 Extended only
1E & 1E Extended (1EX)	Address	Same as for Function 1 + Political Geography (Election District, Assembly District, Congressional District, City Council District, Municipal Court District and State Senatorial District). Latitude & Longitude in 1E Extended only.
1A & 1A Extended (a.k.a.1AX)	Address	Standardized Street Name and Street Code, Tax Block and Lot (BBL), Alternative Addresses for Lot, Building Identification Number (BIN), Latitude & Longitude, RPAD Building Class, Interior Lot Flag, Vacant Lot Flag, Irregularly-Shaped Lot Flag, Corner Code, etc.
1B	Address	Same as for Function 1E + Property Level Information from Function 1A + Street Names for Cross Streets and Address Lists
1N	Street Name	Standardized Street Name and Street Code (not available in Desktop GOAT)
2 & 2W	Pair of Intersecting Streets, Named Intersection. or Node	Standardized Street Name and Street Codes, List of Additional Cross Streets, ZIP Code, Community District, Health Area, Health Center District, 1990, 2000 and 2010 Census Tract, Fire Districts, School District, Police Precinct, DSNY District, X-Y Coordinates (based on State Plane Coordinate System). Function 2W (only) contains Latitude & Longitude, and the list of related nodes and cross streets.
3 & 3 Extended (a.k.a. 3X)	On Street and a Pair of Consecutive Cross Streets	Standardized Street Names and Street Codes, Lists of Cross Streets at both ends, and information about both sides of the street, (including ZIP Codes, Community Districts, Health Areas, Health Center Districts, 1990, 2000 and 2010 Census Tracts, Fire Districts, School Districts, Police Precincts). Latitude & Longitude in 3 Extended only.
3C & 3C Extended (a.k.a.3CX)	On Street & Pair of Consecutive Cross Streets & Compass Direction	Same as Function 3 but for only one side of the street, as indicated by the compass direction (Block face information). Latitude & Longitude in 3C Extended only.
3S	On Street and an Optional Pair of any Intersecting Streets along the On Street	Street Stretch information: List of intersecting streets in order along 'on' street, the distance between them and node IDs
AP & APX	Address	Address Point ID, Street Name and Street Code, Address Point Range, X-Y coordinates, BBL, BIN, etc.
BF, BB	Char. String	List of street names in alphabetic order - supports street name browsing
BL & BL Extended (a.k.a. BLX)	Tax Block and Lot	List of Addresses Ranges for Lot, List of Building Identification Numbers (BINs), RPAD Building Class, Interior Lot Flag, Vacant Lot Flag, Corner Code, etc.
BN & BN Extended (a.k.a. BNX)	Building Identification Number	List of Address Ranges for Building, Tax Block and Lot, RPAD Building Class, Interior Lot Flag, Vacant Lot Flag, Irregularly Shaped Lot Flag, Corner Code etc.
D, DG, DN	Street Code / House Nbr.	Street Name and/or House Number in Displayable Format

Note: 'Extended' functions return additional data. (See Technical Bulletins for Versions 11.0 and later)

GEOSUPPORT RETURN CODES, REASON CODES AND MESSAGES

<table>
<tr><td colspan="4">GEOSUPPORT SYSTEM RETURN CODES, REASON CODES AND MESSAGES
(As of Geosupport Software Version 17.1)</td></tr>
<tr>
<td>GRC</td>
<td>REASON CODE</td>
<td>FUNCTIONS
* =
wildcard</td>
<td>MESSAGE   (LITERAL TEXT IN UPPERCASE, <Variable values in angled brackets>,
[Comments in Square Brackets & Mixed Case])</td>
</tr>
<tr>
<td>00</td>
<td></td>
<td>All</td>
<td>[Processing was unconditionally successful-no message issued]</td>
</tr>
<tr>
<td>01</td>
<td colspan="3">[GRC 01s are warnings]</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>1,1A,1B,
1E,AP</td>
<td>ADDR NUMBER ALTERED: RANGE ASSUMED. USING DIGITS BEFORE DASH ONLY
ADDR NUMBER ALTERED: USING DIGITS BEFORE DASH ONLY</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>1,1A,1B,
1E,AP</td>
<td>ADDR NUMBER ALTERED: HYPHEN INSERTED</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>1,1A,1B,
1E,AP</td>
<td>ADDR NUMBER ALTERED: HYPHEN DELETED</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>BB,BF</td>
<td>YOU HAVE REACHED THE <FIRST or LAST> STREET NAME IN THE BOROUGH OF
<boro. name></td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>1,1A,1B,
1E</td>
<td>INPUT IS A COMPLEX. OUTPUT DATA MAY PERTAIN TO ONLY PART OF
THE COMPLEX</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>1,1A,1B,
1E</td>
<td>OUTPUT STREET NAME/CODE DIFFER FROM INPUT
[Browse Flag P/F/R and Ruby Street/Sapphire Street processing]</td>
</tr>
<tr>
<td></td>
<td>7</td>
<td>1,1A,1B,
1E</td>
<td>OUTPUT STREET NAME/CODE DIFFER FROM INPUT. ADDR NUMBER ALTERED: RANGE ASSUMED
OUTPUT STREET NAME/CODE DIFFER FROM INPUT. ADDR NUMBER ALTERED: HYPHEN INSERTED
OUTPUT STREET NAME/CODE DIFFER FROM INPUT. ADDR NUMBER ALTERED: HYPHEN DELETED</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>1A,1B</td>
<td>INPUT ADDRESS IS A PSEUDO-ADDRESS</td>
</tr>
<tr>
<td></td>
<td>9</td>
<td>1A,1B</td>
<td>INPUT ADDRESS IS A PSEUDO-ADDRESS. ADDR NUMBER ALTERED: RANGE ASSUMED
INPUT ADDRESS IS A PSEUDO-ADDRESS. ADDR NUMBER ALTERED: HYPHEN INSERTED
INPUT ADDRESS IS A PSEUDO-ADDRESS. ADDR NUMBER ALTERED: HYPHEN DELETED</td>
</tr>
</table>

GEOSUPPORT SYSTEM RETURN CODES, REASON CODES AND MESSAGES
(As of Geosupport Software Version 17.1)

GRC	REASON CODE	FUNCTIONS * = wildcard	MESSAGE (LITERAL TEXT IN UPPERCASE, <Variable values in angled brackets>, [Comments in Square Brackets & Mixed Case])
01 (cont.)	A	1A,1B,BL	LOT HAS MORE ITEMS THAN LISTED
	B	1A,1B	LOT HAS MORE ITEMS THAN LISTED.ADDR NUMBER ALTERED: RANGE ASSUMED LOT HAS MORE ITEMS THAN LISTED.ADDR NUMBER ALTERED: HYPHEN INSERTED LOT HAS MORE ITEMS THAN LISTED.ADDR NUMBER ALTERED: HYPHEN DELETED LOT HAS MORE ITEMS THAN LISTED.ADDR NUMBER ALTERED: INPUT ADDRESS IS A PSEUDO-ADDRESS
	C	1,1A,1B, 1E,2,3*	IN MARBLE HILL - LEGAL BORO IS MANHATTAN IN MARBLE HILL - LEGAL BORO IS MANHATTAN. ADDR NUMBER ALTERED: RANGE ASSUMED IN MARBLE HILL - LEGAL BORO IS MANHATTAN. ADDR NUMBER ALTERED: HYPHEN INSERTED IN MARBLE HILL - LEGAL BORO IS MANHATTAN. ADDR NUMBER ALTERED: HYPHEN DELETED ON RIKERS ISL - LEGAL BORO IS THE BRONX ON RIKERS ISL - LEGAL BORO IS THE BRONX. ADDR NUMBER ALTERED: RANGE ASSUMED ON RIKERS ISL - LEGAL BORO IS THE BRONX. ADDR NUMBER ALTERED: HYPHEN INSERTED ON RIKERS ISL - LEGAL BORO IS THE BRONX. ADDR NUMBER ALTERED: HYPHEN DELETED
	D	1*,2,3*, AP	PARTIAL STREET NAME USED TO MEET SNL REQUIREMENT
	E	1B,1E	OUTPUT ADDRESS RANGE IS SPLIT BY ELECTION DISTRICT BOUNDARY
	F	BN	THIS BIN IS TEMPORARY AND WILL BE REPLACED IN THE FUTURE
	G	1,1A,1B, 1E	ADDR NUMBER ALTERED: RANGE ASSUMED. NOTE: INCONSISTENT ODD/EVEN ADDR RANGE
	H	2,3S	THESE STREETS INTERSECT ONCE-COMPASS DIRECTION IGNORED
	I	1,1A,1B, 1E	INPUT IS NON-ADDRESSABLE PLACE NAME (NAP) - ADDRESS NUMBER IGNORED INPUT IS NAP WITH INVALID ADDRESS NUMBER. ADDRESS NUMBER IGNORED
	J	1,1A,1B, 1E,2,3*	<Full street name including EAST or WEST as first word> ASSUMED [An input Bronx or Manhattan street name is missing EAST or WEST as its first word, and the intended full street name is unambiguous]

GEOSUPPORT SYSTEM RETURN CODES, REASON CODES AND MESSAGES
(As of Geosupport Software Version 17.1)

GRC	REASON CODE	FUNCTIONS * = wildcard	MESSAGE (LITERAL TEXT IN UPPERCASE, <Variable values in angled brackets>, [Comments in Square Brackets & Mixed Case])
01 (cont.)	J (cont.)	2,3*	<Full street name> AND <other full street name> ASSUMED [Two input Bronx or Manhattan street names are missing EAST or WEST as their first words, and the intended names are unambiguous]
		3*	ALL THREE STREET NAMES ASSUMED [Three input Bronx or Manhattan street names are missing EAST or WEST as their first words, and the intended names are unambiguous]
	K	1,1A,1B, 1E,AP	EMBEDDED BLANK IN ADDRESS NUMBER HAS BEEN REPLACED WITH A HYPHEN
	L or R	3,3C	<LEFT or RIGHT> SIDE OF SEGMENT IS IN <BROOKLYN or QUEENS> or <LEFT or RIGHT> SIDE OF SEGMENT IS IN <NASSAU or WESTCHESTER> - NO INFO RETURNED FOR THAT SIDE
	M	1,1A,1B, 1E	INPUT ADDRESS NUMBER IS ZERO
	N	1,1A,1B, 1E,2,3*, AP,D*	STREET NAME(S) AND STREET CODE(S) BOTH SPECIFIED AS INPUT - <CODE(S) or NAMES> IGNORED
		2,2W COW Only	STREET NAME/CODE(S) AND NODE BOTH SPECIFIED AS INPUT - NODE USED
	O	1,1A,1B, 1E	CAUTION: <BLOCK FACE or ADDR RANGE> CONTAINS OUT-OF-SEQUENCE AND/OR OPPOSITE PARITY ADDRESSES
	P	1,1B,1E	IRREGULARLY CURVED STREET SEGMENT - SPATIAL COORDINATES RETURNED AS BLANKS
	Q	3	THESE STREETS INVOLVE A 'DOGLEG' - SHORTEST STRETCH PROVIDED

GEOSUPPORT SYSTEM RETURN CODES, REASON CODES AND MESSAGES
(As of Geosupport Software Version 17.1)

GRC	REASON CODE	FUNCTIONS * = wildcard	MESSAGE (LITERAL TEXT IN UPPERCASE, <Variable values in angled brackets>, [Comments in Square Brackets & Mixed Case])
01 (cont.)	S	1,1A,1B,1E,AP	<HNI or HNS> AND DISPLAY ADDRESS NUMBER BOTH SPECIFIED AS INPUT-<HNI or HNS> IGNORED
	T	2	NON-INTERSECTION NAME IGNORED
	U	3S	STRETCH HAS MORE ITEMS THAN LISTED
	V	1,1B,1E	<Normalized input address number> <Norm'd input street name> IS ON <LEFT or RIGHT> SIDE OF <True street name> [This warning is issued for vanity addresses, addressable place names, NAPs other than complexes (for which an underlying address is not available), and certain alternative addresses known as type 'B' addresses.] or <Address number> <True street name> IS THE UNDERLYING ADDRESS OF <Normalized input NAP> [This warning is issued for NAPs other than complexes, for which an underlying address is available.]
	W	1,1A,1B,1E,AP, 2,3*	INPUT STREET NAME HAS BEEN MODIFIED [a. MSW: Extraneous data were deleted from the end of a free-form address. COW: Same as MSW above, except that, in addition, the first 14 bytes of the extraneous data on a free-form address were processed as if they were in the UNIT input field (if there was no other data in the Unit input field).] [b. Neighborhood name was deleted from Duplicate Address Pseudo-Street Name (DAPS) for Functions 2, 3*.]
	X	1E,1B	THERE ARE NO POLITICAL DISTRICTS ASSIGNED TO THIS LOCATION

GEOSUPPORT SYSTEM RETURN CODES, REASON CODES AND MESSAGES
(As of Geosupport Software Version 17.1)

GRC	REASON CODE	FUNCTIONS * = wildcard	MESSAGE (LITERAL TEXT IN UPPERCASE, <Variable values in angled brackets>, [Comments in Square Brackets & Mixed Case])
01 (cont.)	Y	1/1E Ext 1B COW Only	ZIP NOT IN CITY NAME TABLE. GENERIC CITY NAME RETURNED. NOTIFY DCP/GSS
	Z	1A,1B, BL,BN	A BILLING BBL HAS NOT YET BEEN ASSIGNED TO THIS CONDOMINIUM
	$	1* COW Only	UNIT IDENTIFIER HAS BEEN TRUNCATED [This warning is generated only when the Unit Input field is used.]
	*	1A,1B BL,BN COW Only	TPAD Warning will appear in message field. [See list of TPAD Warning messages and Reason Code Qualifiers /TPAD Conflict Flag after this table.]
			[GRCs greater than 01 are rejects or errors]
02		2	STREETS INTERSECT TWICE-<number of feet> FT BETWEEN INTERSECTIONS. COMPASS DIRECTION REQ'D
03	Blank	2 MSW Only	STREETS INTERSECT MORE THAN TWICE-CAN ONLY BE PROCESSED BY COW FUNCTION CALL [Reason Code value is blank]
	A	2 COW Only	STREETS INTERSECT MORE THAN TWICE-USE FUNCTION 2W TO FIND RELATED NODES
	B	2W COW Only	STREETS INTERSECT MORE THAN TWICE - USE NODE AS INPUT
04		1A,BL MSW Only	1A/BL VERSION SWITCH INVALID - MUST BE S. ONLY STANDARD IS SUPPORTED

GEOSUPPORT SYSTEM RETURN CODES, REASON CODES AND MESSAGES
(As of Geosupport Software Version 17.1)

GRC	REASON CODE	FUNCTIONS * = wildcard	MESSAGE (LITERAL TEXT IN UPPERCASE, <Variable values in angled brackets>, [Comments in Square Brackets & Mixed Case])
05		3S	FOR FUNCTION 3S, ONLY FIRST BOROUGH CODE IS PERMITTED
07		1,1A,1B,1E	FOR A NAME OF A COMPLEX, 5-DIGIT STREET CODE INPUT IS NOT PERMITTED
08		All but B*	INVALID STREET NAME NORMALIZATION FORMAT FLAG - MUST BE BLANK, C OR S
09		3C	<Compass direction> SIDE OF STREET SEGMENT IS NOT IN <borough name>
10		All but B*	INVALID SNL VALUE - MUST BE BETWEEN 4 AND 32 INCLUSIVE
11	0	1*,2,3*,AP	<Street name> NOT RECOGNIZED. THERE ARE NO SIMILAR NAMES
12		2	INTERSECTION NAME NOT FOUND
13	1	1,1A,1B,1E,AP	ADDRESS NBR <value> CONTAINS AN INVALID CHARACTER <character> IN POSITION <position number>
	2	1,1A,1B,1E,AP	ADDRESS NBR <value> HAS MORE THAN 3 DIGITS AFTER DASH
	3	1,1A,1B,1E,AP	ADDRESS NBR <value> HAS TOO MANY DASHES
	4	1,1A,1B,1E,AP	ADDRESS NBR <value> HAS NO DIGITS AFTER THE DASH
	6	1,1A,1B,1E,AP	ADDRESS NBR <value> HAS TOO MANY DIGITS (MORE THAN 5)

GEOSUPPORT SYSTEM RETURN CODES, REASON CODES AND MESSAGES
(As of Geosupport Software Version 17.1)

GRC	REASON CODE	FUNCTIONS * = wildcard	MESSAGE (LITERAL TEXT IN UPPERCASE, <Variable values in angled brackets>, [Comments in Square Brackets & Mixed Case])
13 (cont.)	7	1,1A,1B, 1E,AP	ADDRESS NBR <value> IS NOT COMPLETE AS ENTERED
	8	1,1A,1B, 1E,AP	ADDRESS NBR <value> - PORTION AFTER HYPHEN EXCEEDS ALLOWABLE MAXIMUM
	9	1,1A,1B, 1E,AP,D*	ADDRESS NBR <hse nr value> INVALID INTERNAL FORMAT
	A	1,1A,1B, 1E,AP,D*	ADDRESS NBR <value> HAS AN UNKNOWN OR INVALID SUFFIX/ENDING
	B	1,1A,1B, 1E,AP	INPUT CONTAINS NO ADDRESS NUMBER
	C	1,1A,1B, 1E,AP	ADDRESS NBR <value> HAS AN EMBEDDED BLANK
	D	1,1A,1B, 1E,AP	ADDRESS NBR HAS INVALID FORMAT FOR EDGEWATER PARK
	E	1,1A,1B, 1E,AP	THIS STREET HAS HYPHENATED ADDRESS NBRS ONLY. TRY <address nbr with hyphen ins erted to left of last two digits> OR <address nbr with hyphen inserted to left of last three digits>
	F	1,1A,1B, 1E,AP	THIS STREET HAS UNHYPHENATED ADDRESS NBRS ONLY. TRY <digits of address number to left of dash only> OR <digits to left and right of dash concatenated without the dash>
	G	1,1A,1B, 1E,AP	ADDRESS NUMBER HAS INVALID HYPHENATION FOR THIS STREET [Input address number is an unhyphenated 2-digit number, but the input street has hyphenated address numbers only.]

GEOSUPPORT SYSTEM RETURN CODES, REASON CODES AND MESSAGES
(As of Geosupport Software Version 17.1)

GRC	REASON CODE	FUNCTIONS * = wildcard	MESSAGE (LITERAL TEXT IN UPPERCASE, <Variable values in angled brackets>, [Comments in Square Brackets & Mixed Case])
14	Blank	3S	INPUT DOES NOT DEFINE A STREET STRETCH, SINCE INPUT INTERSECTIONS ARE IDENTICAL
	A	3S	INPUT DOES NOT DEFINE A STREET STRETCH [e.g. On-street has a different 5-digit street code than the underlying street]
15		All but B*	STREET NAME CANNOT BE NORMALIZED
16		1*,AP	STREET NAME IS MISSING
17		All	BOROUGH CODE IS MISSING
18		BL	TAX BLOCK NOT NUMERIC
19		BL	TAX LOT NOT NUMERIC
20		BN	BUILDING IDENTIFICATION NUMBER (BIN) IS MISSING
21		BN	BUILDING IDENTIFICATION NUMBER (BIN) NOT FOUND
22		BN	INVALID BIN FORMAT: NON-NUMERIC, FIRST DIGIT NOT 1-5 OR REST OF DIGITS ALL ZERO
23		BN	TEMPORARY DEPARTMENT OF BUILDINGS BIN: EXISTS ONLY IN D.O.B FILES
24		3*	ON STREET IS MISSING
25		2,3*	CROSS STREET 1 IS MISSING
26		2,3*	CROSS STREET 2 IS MISSING
27		All	INVALID WORK AREA FORMAT INDICATOR - MUST BE C OR BLANK

			GEOSUPPORT SYSTEM RETURN CODES, REASON CODES AND MESSAGES **(As of Geosupport Software Version 17.1)**
GRC	REASON CODE	FUNCTIONS * = wildcard	MESSAGE (LITERAL TEXT IN UPPERCASE, <Variable values in angled brackets>, [Comments in Square Brackets & Mixed Case])
28		1,1A,1B, 1E,AP	A PARTIAL STREET NAME MAY NOT BE USED IN A FREE-FORM ADDRESS
29		1,1A,1B, 1E,AP,3*	INTERSECTION <INTERSECTION NAME> MAY NOT SERVE AS ON-STREET
30		2	<STREET NAME> IS NOT PART OF <INTERSECTION NAME>
31	1	1A,BL COW Only	MODE SWITCH OF X NOT VALID WITH LONG-WORK-AREA-2 SET TO L
32		2,2W COW Only	INVALID NODE - NON-NUMERIC OR EMBEDDED BLANKS FOUND
33		2,2W COW Only	ACCESS BY NODE FAILED - NODE NOT FOUND
38		3S	<Compass direction value> IS AN INVALID COMPASS DIRECTION VALUE FOR <FIRST or SECOND> INPUT INTERSECTION
39		2,3C	INVALID COMPASS DIRECTION VALUE - MUST BE N, S, E OR W
40		2,3C	COMPASS DIRECTION VALUE IS INVALID FOR THIS INPUT LOCATION
41		1,1A,1B, 1E,AP	THIS STREET HAS NO ADDRESSES
42	blank	1,1A,1B, 1E,AP	ADDRESS NUMBER OUT OF RANGE
	1	1,1A,1B, 1E,AP	ADDRESS NUMBER OUT OF RANGE. CORRECT DIGITS OR INSERT HYPHEN AS <AB-CD> OR <A-BCD> [where input was of the form ABCD]

GEOSUPPORT SYSTEM RETURN CODES, REASON CODES AND MESSAGES
(As of Geosupport Software Version 17.1)

GRC	REASON CODE	FUNCTIONS * = wildcard	MESSAGE (LITERAL TEXT IN UPPERCASE, <Variable values in angled brackets>, [Comments in Square Brackets & Mixed Case])
	2	1,1A,1B, 1E,AP	ADDRESS NUMBER OUT OF RANGE. CORRECT DIGITS OR TRY <AB> OR <ABCD> [where input was of the form AB-CD]
44		3C	INPUT DOES NOT DEFINE A BLOCK FACE
45		3	INPUT DOES NOT DEFINE A STREET SEGMENT
46		3,3C	STREET COMBINATION NOT UNIQUE [The input is ambiguous, i.e., it describes more than one valid street segment.]
47		1,1A,1B, 1E COW Only	INVALID HNL VALUE - MUST BE BETWEEN 12 AND 16 INCLUSIVE
48		1,1A,1B, 1E COW Only	INVALID HOUSE NUMBER JUSTIFICATION VALUE - MUST BE L, R OR BLANK
49		1,1A,1B, 1E COW Only	ADDRESS NUMBER CANNOT BE NORMALIZED WITHIN REQUESTED HNL
50	1 thru 4	1,1A,1B, 1E,2,3*, AP	<Input street name> IS AN INVALID STREET NAME FOR THIS LOCATION [The Reason Code indicates the number of valid street names returned in the Similar Names List.]
55		2,3*	NON-ADDRESSABLE PLACE NAME PROCESSING IS NOT AVAILABLE FOR THIS FUNCTION

GEOSUPPORT SYSTEM RETURN CODES, REASON CODES AND MESSAGES
(As of Geosupport Software Version 17.1)

GRC	REASON CODE	FUNCTIONS * = wildcard	MESSAGE (LITERAL TEXT IN UPPERCASE, <Variable values in angled brackets>, [Comments in Square Brackets & Mixed Case])
56		1E	ADDRESS IS SPLIT AMONG MULTIPLE ELECTION DISTRICTS. ADDRESS NBR SUFFIX REQUIRED [The input address is associated with more than one Election District (ED). Function 1E requires an address number suffix to be included with this address to identify a portion of the building specific to one ED.]
57		3S	INPUT INCLUDES ROADBED NAME, BUT ROADBED REQUEST SWITCH IS OFF
58		1,1A,1B, 1E,AP	NON-ADDRESSABLE PLACE NAME, BRIDGE, TUNNEL OR MISC STRUCTURE NOT FOUND
59		1*,2,3*, AP	STREET NAME CANNOT BE NORMALIZED WITHIN REQUESTED SNL
61		3S	STREET STRETCH NOT FOUND
62		2,3S	<Street name> & <other street name> DO NOT INTERSECT
63	2 thru 4	2	INPUT STREET NAMES DO NOT FORM A UNIQUE INTERSECTION [Issued when there is more than one possibility for an assumed front-truncated street name (where EAST or WEST is added at the beginning of the name). Reason Code indicates the number of possible names. The possible names are returned in the List of Street Names in WA1.]
64		1,1A,1B, 1E,2,3*, AP,D*	STREET CODE NOT FOUND
65		All	INVALID ROADBED REQUEST SWITCH. MUST BE R OR BLANK
66		3S	<Street name> & <other street name> INTERSECT MORE THAN TWICE-CANNOT BE PROCESSED

GEOSUPPORT SYSTEM RETURN CODES, REASON CODES AND MESSAGES
(As of Geosupport Software Version 17.1)

GRC	REASON CODE	FUNCTIONS * = wildcard	MESSAGE (LITERAL TEXT IN UPPERCASE, <Variable values in angled brackets>, [Comments in Square Brackets & Mixed Case])
67	A-Z	All	ERROR ACCESSING GEOSUPPORT FILE: <file name>. NOTIFY SYSTEM SUPPORT [This can be an installation error or a system error. Notify System Support.]
68		3S	<Street name> & <other street name> INTERSECT TWICE-COMPASS DIRECTION REQ'D
69	A	3,3C COW Only	INVALID AUXSEG REQUEST SWITCH. MUST BE Y, N OR BLANK
	B	1A,1B, BL,BN COW Only	INVALID TPAD REQUEST SWITCH. MUST BE Y, N OR BLANK
	C	1,1E,1A, 3,3C,AP BL,BN COW Only	INVALID MODE SWITCH VALUE. MUST BE X OR BLANK
	D	All COW Only	INVALID WTO SWITCH VALUE. MUST BE Y, N, OR BLANK

GEOSUPPORT SYSTEM RETURN CODES, REASON CODES AND MESSAGES
(As of Geosupport Software Version 17.1)

GRC	REASON CODE	FUNCTIONS * = wildcard	MESSAGE (LITERAL TEXT IN UPPERCASE, <Variable values in angled brackets>, [Comments in Square Brackets & Mixed Case])
70	A	All but 3,3C COW Only	AUXSEG REQUEST SWITCH NOT VALID FOR THIS FUNCTION
	B	All but 1A,1B, BL,BN COW Only	TPAD REQUEST SWITCH NOT VALID FOR THIS FUNCTION
	C	All but 1,1E,1A, 3,3C,AP, BL,BN COW Only	MODE SWITCH OF X (EXTENDED) NOT VALID FOR THIS FUNCTION
71		1,1A,1B, 1E.AP	INPUT ZIP CODE IS NOT A NEW YORK CITY ZIP CODE
72		1,1A,1B, 1E.AP	INPUT ZIP CODE IS NOT ALL NUMERIC
73		1A,BL MSW Only	LEGACY VERSION OF FUNCTIONS 1A AND BL IS DISCONTINUED. SEE TECH BULLETIN 05-1
74		2,3*	ADDRESSABLE PLACE NAME PROCESSING IS NOT AVAILABLE FOR THIS FUNCTION
75		1,1A,1B, 1E	DUPLICATE ADDRESS-USE <pseudo-streetname1> OR <pseudo-streetname2>

GEOSUPPORT SYSTEM RETURN CODES, REASON CODES AND MESSAGES
(As of Geosupport Software Version 17.1)

GRC	REASON CODE	FUNCTIONS * = wildcard	MESSAGE (LITERAL TEXT IN UPPERCASE, <Variable values in angled brackets>, [Comments in Square Brackets & Mixed Case])
76		All but 1,1B.1E, 3S	ROADBED REQUEST SWITCH NOT IMPLEMENTED FOR THIS FUNCTION
77		BL	TAX LOT NOT FOUND
78		All COW Only	INVALID BROWSE FLAG VALUE. MUST BE P, F, R, OR BLANK
79		3S,BL, BN,D* COW Only	BROWSE FLAG NOT VALID FOR THIS REQUEST
80		1,1A,1B, 1E,2,3*	BUSINESS IMPROVEMENT DISTRICT (BID) IS NOT VALID AS INPUT FOR THIS FUNCTION
88	blank	All	GEOSUPPORT ERROR. EMAIL GSS_FEEDBACK@PLANNING.NYC.GOV AND REPORT 88- [An internal Geosupport problem, not a user error.]
88 (cont.)	1-9, A-Z	All	GEOSUPPORT ERROR. EMAIL GSS_FEEDBACK@PLANNING.NYC.GOV AND REPORT 88-<value> ERROR [where <value> is the reason code.] [An internal Geosupport problem, not a user error.]
89		2,3C,3S, BN	LONG WORK-AREA-2 OPTION IS INVALID FOR THIS FUNCTION
		1,1B,1E, 3 COW Only	

GRC	REASON CODE	FUNCTIONS * = wildcard	MESSAGE (LITERAL TEXT IN UPPERCASE, <Variable values in angled brackets>, [Comments in Square Brackets & Mixed Case])
			GEOSUPPORT SYSTEM RETURN CODES, REASON CODES AND MESSAGES **(As of Geosupport Software Version 17.1)**
90		1,1A,1E, 3,BL	LONG WORK-AREA-2 FLAG MUST BE L OR BLANK
96		All	FUNCTIONALITY UNDER CONSTRUCTION
97		BB,BF	INPUT IS BEYOND THE LAST STREET NAME IN THE BOROUGH OF <borough name>
98		All	NO INPUT DATA RECEIVED
99		All	INVALID BOROUGH CODE. MUST BE 1, 2, 3, 4 OR 5
EE	1	1*,2,3*, AP	<Street name> NOT RECOGNIZED. IS IT <similar street name>? [Issued when there is precisely one similar name.]
	2 thru 9,A	1*,2,3*, AP	<Street name> NOT RECOGNIZED. THERE ARE <number> SIMILAR NAMES [Issued when there is more than one similar name. Reason Code indicates number of similar names. Reason Code 'A' signifies 10 similar names. The similar names are returned in WA1.]
??	Blank	N/A	INVALID FUNCTION CODE
	1	1B,AP MSW Only	INVALID FUNCTION CODE - AVAILABLE IN COW FORMAT ONLY

See next page for TPAD warning messages.

TPAD WARNING MESSAGES and TPAD Conflict Flag / REASON CODE QUALIFIERS in ( )

"TPAD BBL USED, NO EXISTING PAD BBL"; (2)

"TPAD BBL USED, PAD PSEUDO-ADDRESS ON DIFFERENT BBL THAN TPAD NB BIN"; (3)

"TPAD BBL USED, EXISTING PAD BIN OF INPUT ADDR ON DIFF BBL THAN TPAD NB BIN"; (4)

"TPAD BBL USED, PAD BIN OF INPUT ADDR W/DM-5 ON DIFF BBL THAN TPAD NB BIN"; (6)

"TPAD BBL USED, PAD BIN OF INPUT ADDR W/DM-6 ON DIFF BBL THAN TPAD NB BIN"; (7)

"PAD BBL USED, TPAD NB BIN WITH NB-0 ON DIFFERENT BBL THAN PAD BIN"; (8)

"PAD BBL USED, TPAD NB BIN WITH NB-1 ON DIFFERENT BBL THAN PAD BIN"; (9)

"PAD BBL USED, TPAD NB BIN WITH NB-2 ON DIFFERENT BBL THAN PAD BIN"; (A)

"PAD BBL USED, TPAD NB BIN WITH NB-3 ON DIFFERENT BBL THAN PAD BIN"; (B)

"TPAD DATA FOUND, TPAD ADDRESS OVERLAPS PAD ADDRESS"; (C)

"ADDRESS FOUND IN TPAD, NOT FOUND IN PAD"; (D)

"BIN FOUND IN TPAD, NOT FOUND IN PAD"; (E)