

Prevent SSO's

Why We Clean

* PM - INSPECTIONS DEPEND
ON PM

Roots

4) Grease - "accelerated areas"

Sags (because of loss of g)

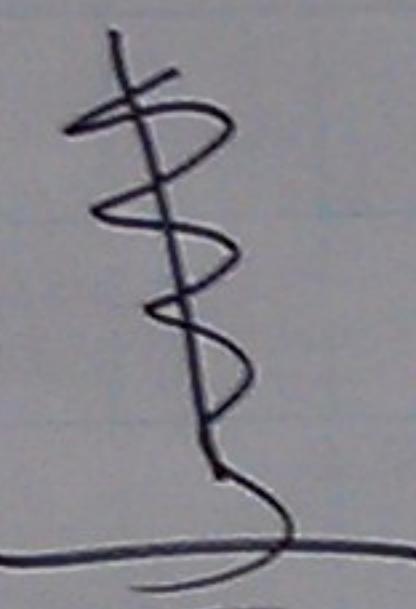
- because grease settles

- any sediment

Structural

Matching inverts (small Ø to large)

Drivers

A pipe will have
multiple  Driver

A pipe will have 1
CONTROLLING DRIVER

Why We Inspect

Current PM :

(a) Schedule for TV
inspection
↓
for structural issues

Cleaning Before Inspect
(so can have clean
pipe for JV)

Inspection Drivers



- Root Control Prog. Mgt
- Grease Mgt
- Post repair
- Post release (SSO)
(u/s + ds pipes + vicinity)
Look for other things
than soft blockage or
capacity - other than
transitory
- Condition
 - reinspection of pipes
that have not been rehab
in timely manner

ID

- accelerated areas
 - "hot spot" → anything on Matt's list
 - Pipes falling in
-
- Ⓐ includes groupings of restaurants (e.g. Mall 205 area)
 - Ⓐ ps design
 - Ⓐ apartments
 - Ⓐ pipe design
 - why is it falling in
 - sag
 - defects
 - slope (e.g. slope)
 - low flow

(Grid) Drainage Basins - (Access)

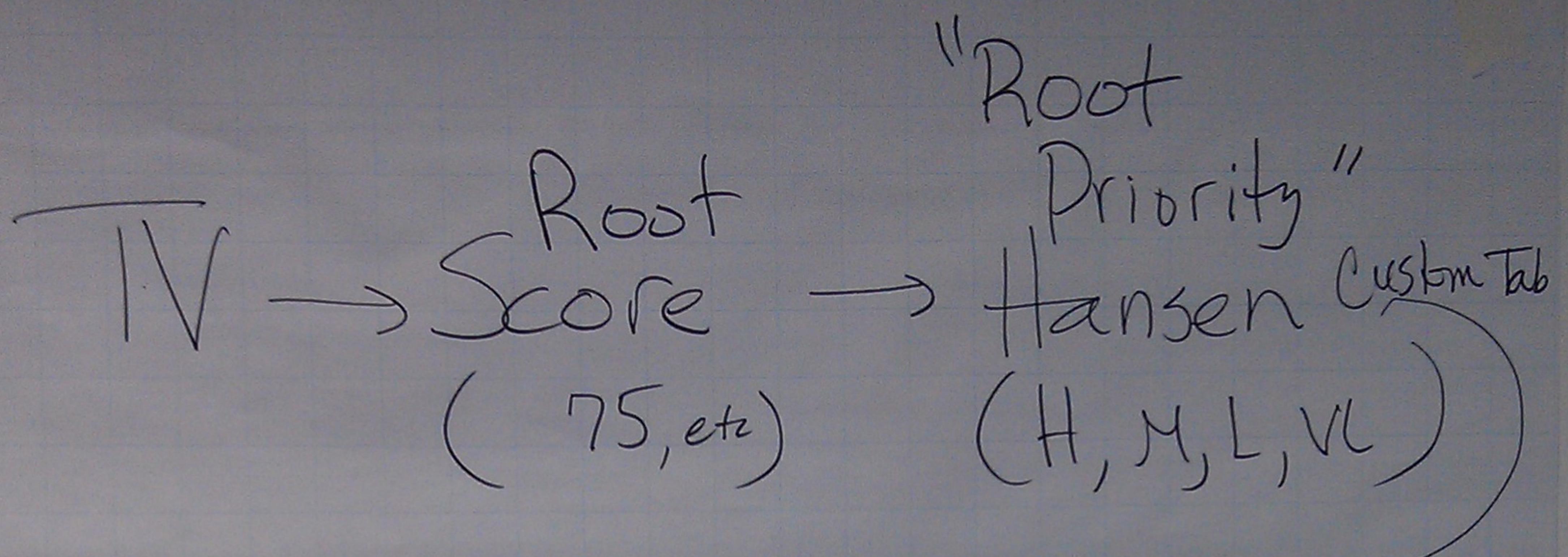
↓
(Math)
[PBOF]

↓ (Geospatial)

Sub basins

- ④ Manageable work groups
 - maps given to crews
 - we have basins for Combined System already mapped
 - limit to 100-200 lines





→ Root Treatment → Possible Root Clean

e.g. 2 yr treatment frequency
 TV every ~~6~~ yrs to reevaluate
 if no roots, skip cycle treatment
 Never comes off list

ROOT CLEAN

- Mechanical
- Mostly BOM
some contract
- High possibility
for damage if
contracted

related → RELEASE

→ TV (main), reveals heavy roots

EVIDENCE
OF TAP ROOTS,
FOR CAPACITY

BASED ON TV
SCORE

CAN ONLY GO UP IN
PRIORITY
high > 75 root save

NEVER COMES
OFF LIST
UNTIL
REPAIR/REHAB

26-75 med

6-25 low (com controlled)

1-5 very low (com controlled)

Historical List

coded in Hansen as
priority for trtmt
on custom tab (root
problem)

ROOT TRTMT

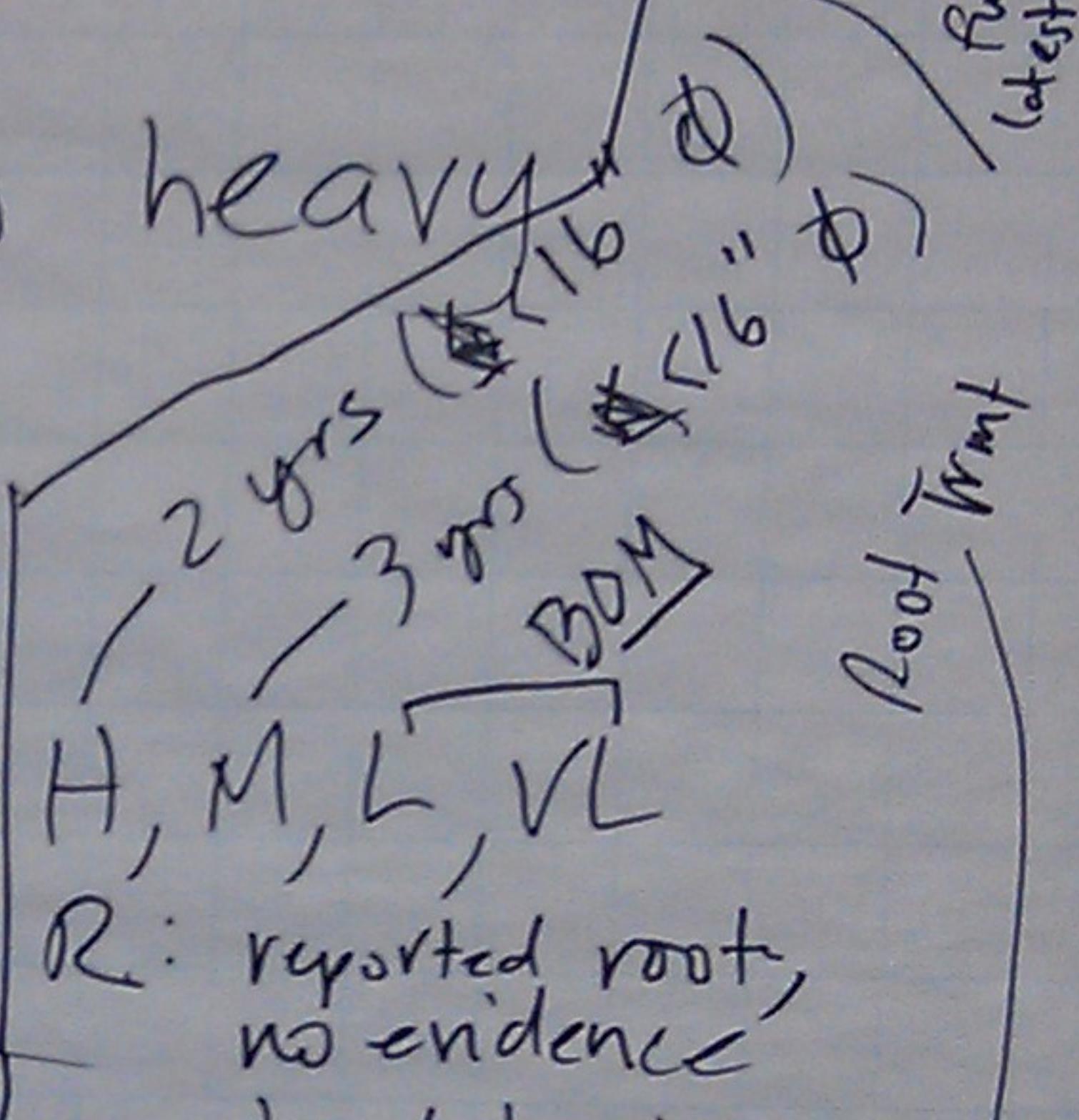
Contractor, foaming chemical

kills filamentous, but not tap roots

doesn't happen unless
necessary for capacity

can trigger cleaning due to dead root
after trtmt

for ≥ 1/6"
various according
+
Root diameter
test N



ROOT CLEAN

- Mechanical
- Mostly BOM
some contract
- High possibility
for damage if
contracted

related → RELEASE

→ TV (main), reveals heavy
roots

EVIDENCE
OF TAP ROOTS,
FOR CAPACITY

BASED ON TV
SCORE

CAN ONLY GO UP IN
PRIORITY
high > 75 root score

NEVER COMES
OFF LIST
UNTIL
REPAIR/REHAB

26-75 med
6-25 low (BOM controlled)
1-5 very low (BOM controlled)

Historical List

coded in Hansen as
priority for treat
on custom tab (root problem)

2 yrs ($\geq 16"$ Ø)
3 yrs ($\leq 16"$ Ø)
BOM
H, M, L, VL

R: reported root,
no evidence
tend to ignore

ROOT TRTMT

contractor, foaming chemical

kills filamentous, but not tap roots

doesn't happen unless
necessary for capacity

can trigger cleaning due to dead root
after trtmt

for $\geq 16"$
varies according to
latest TV inst.

Root Trmt

Cleaning Drivers

- Original TV (PM)
 - Crew sees grease - add to list + JV again in a year
 - Matt's list - reviewed monthly
 - MM creates work order
 - Release-Related (SSO's)

4/10/12

Rehab Module (Tie-In?)

Risk of not doing
inspection

Greater than cost

of doing inspection.

4/10/2012

Documents/Sources

Gail's -
CMOM Report

Hansen -
Insp. Records
Root Priority
Cleaning Records (Special clean)
Root Chem Records

Matt's -
SP - Greene View (Hansen) - asset groups
- (not comprehensive)

→ TRACKIT
John -
LINKO-FOG (Database of Green activity) - Ali Young
→ TRACR-SSO

Phone
NAME _____
FLOOR _____
CONTENTS _____
LABEL
HERE