APPROVALS & COORDINATION NOTES CONT.
36. The Contractor shall have a Superintendent or representative present during all permits necessary for the Work. The Contractor shall notify the Superintendent of the City of Alameda Public Works of the expiry date of such permits and shall keep them up to date. The Contract shall also notify the Superintendent of the City of Alameda Public Works of any changes in the permit.
37. The Contractor shall provide a written Notation of the Start and Ending dates of the Work and designate their foreman present on each work area. The notations shall be placed on the City Work Site Sign.
38. All Construction Work shall be performed in accordance with the City of Alameda Public Works specifications and the City of Alameda Public Works drawings. Any changes to the original drawings shall be approved in writing by the City of Alameda Public Works.
39. The Contractor shall be responsible for maintaining all necessary insurance and bonds for the Work.
40. The Contractor shall be liable for all damages caused to public or private property during the Course of the Work.
41. The Contractor shall provide a 24-hour work schedule and a 24-hour superintendent.
42. The Contractor shall provide a 24-hour emergency contact number.

GENERAL PROJECT NOTES
1. The General Contractor is responsible for coordinating all of the Work performed by his subcontractors and suppliers.
2. The General Contractor shall provide all necessary tools, equipment, and materials for the Work.
3. The General Contractor shall coordinate all work with the City of Alameda Public Works.
4. The General Contractor shall coordinate all work with the City of Alameda Public Works.
5. The General Contractor shall coordinate all work with the City of Alameda Public Works.

TREES PROTECTION NOTES
1. All trees within the Work Area shall be protected from damage.
2. All trees within the Work Area shall be protected from damage.
3. All trees within the Work Area shall be protected from damage.

ADDITIONAL NOTES
1. All underground services, including water, gas, electric, telephone, cable, etc. shall be protected during the Work.
2. All underground services, including water, gas, electric, telephone, cable, etc. shall be protected during the Work.
3. All underground services, including water, gas, electric, telephone, cable, etc. shall be protected during the Work.

LAYOUT NOTES
1. All elevations are shown relative to the City of Alameda Datum.
2. All distances are shown on the drawings and approximate field measurements may vary from those on the drawings. Adjustments to use and range may be required.
3. All distances are shown on the drawings and approximate field measurements may vary from those on the drawings. Adjustments to use and range may be required.

APPROVALS & COORDINATION NOTES
1. All permits required by law shall be obtained prior to the start of the Work.
2. All permits required by law shall be obtained prior to the start of the Work.
3. All permits required by law shall be obtained prior to the start of the Work.

ABBRIDATIONS
- DRAWN TO SCALE
- NOT TO SCALE
- DESIGN AND CONSTRUCTION DETAILS
- STANDARD SPECIFICATIONS AND DRAWINGS WHERE INDICATED.

NOTES, ABBREVIATIONS, & LEGEND
IF THIS DOES NOT MEASURE ONE INCH, THESE PLANS ARE NOT TO SCALE.

TYPICAL TRENCH SECTION

TRENCH PAVING DETAIL

SURFACE RESTORATION DETAILS

CALTRANS RIGHT-OF-WAY TRENCH RESTORATION DETAILS

TRENCH PAVING DETAILS - EXHIBIT "A"

CASE 1: FOR TRAFFIC INDEX (TI) LESS THAN OR EQUAL TO 12

CASE 2: FOR TRAFFIC INDEX (TI) GREATER THAN 12

NOTES

1. For trenching wider than 6', cut & remove additional one foot of width to make straight cuts in each side of the trench for placement of aggregate back fill prior to paving.

2. For paving without using materials specified, use materials of R5 in equal to original alignment of R5 (minimum 1 layer).

SURFACE RESTORATION DETAILS
MANHOLE REHABILITATION NOTES
1. INSTALL TEMPORARY DECK ABOVE MANHOLE CHANNELS TO KEEP DEBRIS OUT OF SEWERS WHEN REHABILITATING THE MANHOLE WALLS. USE A BASKET TO CATCH ANY DEBRIS WHEN WORKING ON THE MANHOLE BASE.
2. CUT OFF AND REMOVE STEEL STEPS, BURN BACK STEEL 1/2" BELOW EXISTING SURFACE, PATCH HOLES WITH WATER PLUG OR EQUAL.
3. HYDROBLAST AND ABRASIVE BLAST INSIDE OF MANHOLE TO REMOVE ALL SPALLED CONCRETE AND RUST. REMOVE ALL RESULTING DEBRIS FROM THE MANHOLE AND DISPOSE OF AT A LEGAL DISPOSAL SITE.
4. ON (N) AND (E) CONCRETE TO BE COATED, HYDROBLASTING / ABRASIVE BLASTING AND CLEANING SHALL BE SUFFICIENT TO EXPOSE UNMIXED AND NEW CONCRETE SURFACES ADEQUATE FOR BONDING OF NEW PATCHING COMPOUND.
5. PLUG ALL LEAKS WITH WATER PLUG (XYPEX PATCH'N' PLUG, OR EQUAL.)
6. IF THE MANHOLE COVER IS NOT BEING REPLACED THE EXISTING MANHOLE FRAME AND THE UNDERSIDE OF THE METAL MANHOLE COVER SHALL BE BLASTED TO WHITE METAL AND COATED WITH CARBOLINE BITUMINOUS 300M COATING OR EQUAL MINIMUM 45 MILS DRY FILM THICKNESS. MANHOLE SEATING SURFACE SHALL BE SCRAPED CLEAN SMOOTH TO REMOVE RUST.

SEWER FRAME & COVER, UNDERSIDE
GRADE RINGS
APPLY 1-COMPONENT CEMENTITIOUS MORTAR WITH ANTIMICROBIAL CRYSTALLINE WATERPROOFING CONCRETE ADDITIVE
FILL ALL VOIDS WITH STRUCTURAL AND NON-SHRINK MORTAR

CONSTRUCTION AND INSTALLATION OF THE SPACER GASKET SHALL BE ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.

 важно отметить, что все работы должны быть проведены в соответствии с производителем.
SEWER LATERAL REHABILITATION REQUIREMENTS

1. GENERAL: UNLESS OTHERWISE INDICATED ON PLANS, THE CONTRACTOR SHALL REPLACE ALL SEWER LATERALS, INCLUDING CONSTRUCTION OF CLEANOUTS AND CONNECTING TO THE EXISTING PRIVATE BUILDING LATERAL. THE CONTRACTOR SHALL CONDUCT HIS WORK SO AS TO MINIMIZE DISRUPTION TO EXISTING IMPROVEMENTS AND LANDSCAPING WHICH ARE DAMAGED AS A RESULT OF THE WORK. ALL IMPROVEMENTS AND LANDSCAPING WHICH ARE DAMAGED AS A RESULT OF THE WORK SHALL BE REPLACED IN KIND.

2. LOCATION OF LATERALS: THE LOCATION OF LATERALS IS NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL PHYSICALLY LOCATE ALL LATERALS AND DETERMINE IF THE LATERAL IS ACTIVE.

3. SIZE OF LATERAL: THE SIZE OF NEW LATERALS SHALL MATCH THE EXISTING LATERAL UNLESS OTHERWISE SHOWN ON PLANS.

4. INACTIVE LATERAL: THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING IF AN EXISTING LOWER LATERAL IS INACTIVE OR INACTIVE. AN INACTIVE LOWER LATERAL IS ONE THAT DOES NOT CONNECT TO AN UPPER LATERAL SERVING A BUILDING. INACTIVE LOWER LATERALS SHALL NOT BE RECONNECTED TO THE NEW SEWER MAIN AND SHALL BE REMOVED COMPLETELY AT LEAST 18" AWAY FROM THE NEW SEWER MAIN. THE REMOVED PORTION OF THE INACTIVE LATERAL SHALL BE DISPOSED OF BY THE CONTRACTOR AND THE REMAINING PORTION OF THE INACTIVE LATERAL SHALL BE PLUGGED WITH CLASS C GROUT.

5. UTILITY CONFLICTS: IF LATERALS ARE IN CLOSE PROXIMITY TO OR UNDER OTHER UTILITY SERVICES, THE CONTRACTOR SHALL EXCAVATE TO EXPOSE THE UTILITY SERVICES. THE CONTRACTOR SHALL THEN PHYSICALLY DUG UP AND REMOVE THE OBSTACLE ENCOUNTERED. ALL CONNECTIONS SHALL BE MADE IN SUCH A MANNER THAT NO ROCK, SOIL, PIECE OF PIPE, OR OTHER DEBRIS IS ALLOWED TO ENTER THE SEWERAGE SYSTEM.

6. TIME FOR REPLACEMENT: THE CONTRACTOR SHALL COMPLETE REPLACEMENT AND SITE RESTORATION WITHIN THREE CONSECUTIVE WORKING DAYS AFTER BEGINNING CONSTRUCTION ON THE LOWER LATERAL SO AS TO INCONVENIENCE RESIDENTS AS LITTLE AS POSSIBLE. SERVICE SHALL BE MAINTAINED AT ALL TIMES. NO TEMPORARY CONNECTIONS SHALL BE MADE WHICH ARE A HEALTH HAZARD. ALL CONNECTIONS SHALL BE MADE IN SUCH A MANNER THAT NO ROCK, SOIL, PIECE OF PIPE, OR OTHER DEBRIS IS ALLOWED TO ENTER THE SEWERAGE SYSTEM.


8. RESTORATION OF SURFACE IMPROVEMENTS IN THE PUBLIC RIGHT OF WAY: THE RESTORATION OF SIDEWALKS, DRIVEWAY APPROACHES, CURBS AND GUTTERS AND AC PAVEMENT WITHIN THE PUBLIC RIGHT OF WAY SHALL BE PAID FOR ON THE BASIS OF THE BID ITEMS THEREFOR. TUNNELING UNDER CURB AND/OR GUTTER IS NOT PERMITTED.

9. PIPEBURSTING: WHERE A LATERAL IS PIPEBURST AN HDPE (DR=17) PIPE SHALL BE INSERTED THROUGH THE EXISTING LATERAL. ONLY THOSE EXISTING LATERALS WHICH ARE DETERMINED NOT TO HAVE SAGS OR BENDS ARE ELIGIBLE TO BE REHABILITATED BY PIPEBURSTING. ANY OBSTRUCTION, BLOCKAGE OR BEND ENCOUNTERED SHALL BE PHYSICALLY DUG UP AND REMOVED SO THE PIPEBURSTING CAN BE COMPLETED WITHOUT CHANGING PIPE MATERIAL. WHATEVER PORTION OF THE LATERAL CANNOT BE PIPEBURST SHALL BE REPLACED BY DIRECT BURIAL.

10. PIPEBURSTING NEAR UTILITY CROSSINGS: WHERE LATERALS PASS UNDER OR OVER UTILITIES THE CONTRACTOR SHALL EXPOSE THE LATERAL AND UTILITY CROSSING PRIOR TO PIPEBURSTING TO MAKE SURE THE UTILITY IS NOT DAMAGED.

11. INTERNAL DROP CONNECTIONS: WHERE LATERALS PASS UNDER OR OVER UTILITIES THEY SHALL BE REPLACED BY INTERNAL DROP CONNECTIONS. AND UTILITY CROSSING PRIOR TO PIPEBURSTING TO MAKE SURE THE UTILITY IS NOT DAMAGED.

ALLOWABLE LATERAL MATERIALS

- PVC PIPE
  - 6" PVC ASTM 3034 (DR=26)
  - 4" PVC ASTM 3034 (DR=26)
  - 4" PVC AWWA C900 (DR=18)
- HDPE PIPE
  - 6.63" OD HDPE (DR=17)
  - 4.5" OD HDPE (DR=17)
  - 6" PVC AWWA C900 (DR=18)
1. LATERALS ARE NOT SHOWN ON PLANS. CONTRACTOR SHALL REPLACE ALL ACTIVE LATERALS.
NOTES:
1. LATERALS ARE NOT SHOWN ON PLANS. CONTRACTOR SHALL REPLACE ALL ACTIVE LATERALS.
REMOVE AND DISPOSE OF (E) 6" SEWER AND INSTALL 321 LF 8" PVC BY OPEN CUT

MATCH LINE - STA 5+20 - SEE SHEET 8

NOTES:
1. LATERALS ARE NOT SHOWN ON PLANS. CONTRACTOR SHALL REPLACE ALL ACTIVE LATERALS.

IF THIS DOES NOT MEASURE ONE INCH, THESE PLANS ARE NOT TO SCALE.
NOTES:
1. LATERALS ARE NOT SHOWN ON PLANS. CONTRACTOR SHALL REPLACE ALL ACTIVE LATERALS.
2. OPEN CUT LATERALS ON EAST SIDE OF NINTH STREET TO EXTEND TO NEW SEWER MAIN LOCATION.
3. AT THE CONNECTION TO THE EBMD VAULT, INSTALL PIPE WITH A PIPE BELL JUST OUTSIDE VAULT AND A SECOND BELL AT 3' FROM THE VAULT PER EBMD STANDARDS.

1" IF THIS DOES NOT MEASURE ONE INCH, THESE PLANS ARE NOT TO SCALE.
PLAN

PROFILE

NOTES:
1. LATERALS ARE NOT SHOWN ON PLANS. CONTRACTOR SHALL REPLACE ALL ACTIVE LATERALS.
REMOVE AND DISPOSE OF (E) 6" SEWER AND INSTALL 300 LF 8" PVC BY OPEN CUT

MH# 9310104
STA 7+47 LINCOLN - LINE A
CONNECT TO (E) MANHOLE
REBUILD CHANNELS
REHABILITATE MANHOLE
REPLACE MANHOLE LID AND CASTING

MH# 9311104
STA 10+47 LINCOLN - LINE A
REMOVE (E) MANHOLE
CONSTRUCT (N) 4FT Ø MANHOLE TYPE A

MH# 9311105
STA 11+32 LINCOLN - LINE A
REMOVE (E) MANHOLE
CONSTRUCT (N) 4FT Ø MANHOLE TYPE A

MH# 9311107
SEE LINCOLN - LINE B
MATCH LINE - STA 6+20 - SEE SHEET 11
MATCH LINE - STA 11+60 - SEE SHEET 13

NOTES:
1. LATERALS ARE NOT SHOWN ON PLANS. CONTRACTOR SHALL REPLACE ALL ACTIVE LATERALS.
2. MH# 9311105 HAS A PIPE PASSING THROUGH IT, CONTRACTOR TO CONFIRM IF THIS DOES NOT MEASURE ONE INCH, THESE PLANS ARE NOT TO SCALE.
REMOVE AND DISPOSE OF (E) 6" SEWER AND INSTALL 365 LF 8" PVC BY OPEN CUT

LINCOLN AVENUE

LINCOLN AVENUE - LINE A

NOTES:
1. LATERALS ARE NOT SHOWN ON PLANS. CONTRACTOR SHALL REPLACE ALL ACTIVE LATERALS.

1" IF THIS DOES NOT MEASURE ONE INCH, THESE PLANS ARE NOT TO SCALE.
NOTE: LATERALS ARE NOT SHOWN ON PLANS. CONTRACTOR SHALL REPLACE ALL ACTIVE LATERALS.
NUTTE ENGINEERING
CYCLIC SEWER REPLACEMENT PROJECT, PHASE 16
35
9423
NOTES:
1. LATERALS ARE NOT SHOWN ON PLANS. CONTRACTOR SHALL REPLACE ALL ACTIVE LATERALS.
NOTES:
1. LATERALS ARE NOT SHOWN ON PLANS. CONTRACTOR SHALL REPLACE ALL ACTIVE LATERALS.
2. EXISTING GROUND SURFACE SHOWN ON PROFILE IS APPROXIMATE. MANHOLE RIM SHALL BE INSTALLED TO MATCH EXISTING GRADE.

1" IF THIS DOES NOT MEASURE ONE INCH, THESE PLANS ARE NOT TO SCALE.
NOTES:
1. LATERALS ARE NOT SHOWN ON PLANS. CONTRACTOR SHALL REPLACE ALL ACTIVE LATERALS.
2. CONTRACTOR SHALL RELOCATE LATERAL CONNECTION FOR PUBLIC BATHROOM TO PROVIDE CLEARANCE FOR LIGHT POLE.

1" if this does not measure one inch, these plans are not to scale.
REMOVE AND DISPOSE OF (E) 6" SEWER AND INSTALL 180 LF 8" PVC BY OPEN CUT S=0.0063

MH# 9320504
STA 2+80
CONSTRUCT (N)
4 FT Ø MANHOLE (TYPE A)
RIM EL 21.7
(N) 8" PVC INV EL 14.59 IN
(N) 8" PVC INV EL 14.49 OUT

NOTE:
1. LATERALS ARE NOT SHOWN ON PLANS. CONTRACTOR SHALL REPLACE ALL ACTIVE LATERALS.
2. VERIFY DEPTH OF LATERALS PRIOR TO INSTALLING SEWER MAIN TO CONFIRM LATERALS ARE NOT BELOW THE ELEVATION OF THE NEW SEWER MAIN.

NOTES:
1. LATERALS ARE NOT SHOWN ON PLANS. CONTRACTOR SHALL REPLACE ALL ACTIVE LATERALS.
2. VERIFY DEPTH OF LATERALS PRIOR TO INSTALLING SEWER MAIN TO CONFIRM LATERALS ARE NOT BELOW THE ELEVATION OF THE NEW SEWER MAIN.

NOTES:
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NOTES:
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NOTES:
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NOTES:
1. LATERALS ARE NOT SHOWN ON PLANS. CONTRACTOR SHALL REPLACE ALL ACTIVE LATERALS.
2. VERIFY DEPTH OF LATERALS PRIOR TO INSTALLING SEWER MAIN TO CONFIRM LATERALS ARE NOT BELOW THE ELEVATION OF THE NEW SEWER MAIN.
REMOVE AND DISPOSE OF (E) 6" SEWER AND INSTALL 276 LF 8" PVC BY OPEN CUT

SANTA CLARA AVENUE - LINE B

NOTES:
1. LATERALS ARE NOT SHOWN ON PLANS. CONTRACTOR SHALL REPLACE ALL ACTIVE LATERALS.
REMOVE AND DISPOSE OF (E) 6" SEWER AND INSTALL 274 LF 8" PVC BY OPEN CUT

S=0.0062

MH# 9410610
STA 6+58 SANTA CLARA LINE - B
CONNECT TO (E) MANHOLE
REBUILD CHANNELS
REPLACE MANHOLE LID
AND CASTING

RIM EL 25.8

(E) 8" INVF EL 16.32 IN
(N) 8" PVC INV EL 16.40 IN
(E) 8" PVC INV EL 20.90 OUT
(N) 8" PVC INV EL 18.10 OUT

MATCH LINE - STA 5+80 - SEE SHEET 22

MH# 9410013
STA 9+32 SANTA CLARA LINE - B
REMOVE (E) MANHOLE
CONSTRUCT (N)
4 FT
∅ MANHOLE (TYPE A)
RIM EL 24.9
(N) 8" PVC INV EL 18.10 OUT
(N) 8" PVC INV EL 18.10 OUT

MATCH LINE - STA 10+80 - SEE SHEET 24

NOTES:
1. LATERALS ARE NOT SHOWN ON PLANS. CONTRACTOR SHALL REPLACE ALL ACTIVE LATERALS.

IF THIS DOES NOT MEASURE ONE INCH, THESE PLANS ARE NOT TO SCALE.

SANTA CLARA AVENUE - LINE B
PLAN

SANTA CLARA AVENUE - LINE B
PROFILE

SANTA CLARA AVENUE - LINE B

Cyclic Sewer Replacement Project, Phase 16
Santa Clara Avenue - Line B
STA: 5+80 to 10+80

35
9423

Nute Engineering
11+00
12+00
13+00
14+00
15+00
MH# 9321204
STA 14+97 SANTA CLARA LINE - B
REMOVE (E) MANHOLE
CONSTRUCT (N)
4FT ∅ MANHOLE (TYPE A)

REMOVE AND DISPOSE OF (E) 6" SEWER AND INSTALL 277 LF 8" PVC BY OPEN CUT

(N) 8" PVC INV EL 14.80 IN
(E) 8" INV EL 14.72 IN
(E) 8" INV EL 13.82 OUT
(RIM EL 23.8
(N) 8" PVC INV EL 17.20 IN
(N) 8" PVC INV EL 17.10 OUT

SANTA CLARA AVENUE - LINE B
MATCH LINE - STA 10+80 - SEE SHEET 23
MATCH LINE - STA 15+50 - SEE SHEET 25

MH# 9410012
STA 12+20 SANTA CLARA LINE - B
CONNECT TO (E) MANHOLE
REBUILD CHANNELS
REHABILITATE MANHOLE
REPLACE MANHOLE LID
AND CASTING

RIM EL 24.6
(N) 8" PVC INV EL 14.80 IN
(E) 8" INV EL 14.72 IN
(E) 8" INV EL 13.82 OUT

NOTES:
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If this does not measure one inch, these plans are not to scale.
NOTES:
1. LATERALS ARE NOT SHOWN ON PLANS. CONTRACTOR SHALL REPLACE ALL ACTIVE LATERALS.
SAN ANTONIO AVENUE

NOTES:
1. LATERALS ARE NOT SHOWN ON PLANS. CONTRACTOR SHALL REPLACE ALL ACTIVE LATERALS.

SAN ANTONIO AVENUE

PROFILE

SCALE: 1" = 1'-0"

11+40 12+00 13+00 14+00 15+00 16+00 17+00

REMOVE AND DISPOSE OF (E) 6" SEWER AND INSTALL 281 LF 8" PVC BY OPEN CUT S=0.0036

MH# 9748005
STA 14+91 CONNECT TO (E) MANHOLE
REBUILD CHANNELS
REHABILITATE MANHOLE
REPLACE MANHOLE LID AND CASTING

RIM EL 26.3
(N) 8" PVC INV EL 16.40 IN
(N) 8" PVC INV EL 16.40 OUT
(E) 8" INV EL 16.10 IN
(E) 8" INV EL 16.00 OUT

NEW SA MH#4
STA 12+11 CONSTRUCT (N) 4FT Ø MANHOLE (TYPE A)
RIM EL 24.1
(N) 8" PVC INV EL 17.40 IN
(N) 8" PVC INV EL 17.40 OUT

MATCH LINE - STA 11+60 - SEE SHEET 28
MATCH LINE - STA 17+20 - SEE SHEET 30

NUTE ENGINEERING
CYCLIC SEWER REPLACEMENT PROJECT, PHASE 16
SAN ANTONIO AVENUE
STA: 11+60 TO 17+20

PLAN
SCALE IN FEET
2040 0

PROFILE
SCALE IN FEET
2040 0

35
REMOVE AND DISPOSE OF (2) 8" SEWER AND INSTALL 384 LF 8" PVC BY OPEN CUT

INSTALL 273 LF 8" PVC BY OPEN CUT S=0.0079

MATCH LINE - STA 17+20 - SEE SHEET 29

ABANDON 286 LF (E) SEWER AND FILL WITH GROUT

SAN ANTONIO AVENUE

PLAN

NOTE:
1. LATERALS ARE NOT SHOWN ON PLANS. CONTRACTOR SHALL REPLACE ALL ACTIVE LATERALS.
SAN ANTONIO AVENUE PLAN

ABANDON 230 LF (E) SEWER AND FILL WITH GROUT

SAN ANTONIO AVENUE PROFILE

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2. THE ALIGNMENT BETWEEN STA 11+39 AND STA 12+15 IS IN THE CALTRANS RIGHT-OF-WAY. SEE CALTRANS TRENCH DETAIL ON SHEET 4 FOR BACKFILL REQUIREMENTS.

MATCH LINE - STA 11+20 - SEE SHEET 33

MH# 9746005
STA 11+62 LAFAYETTE
CONNECT TO (E) MANHOLE
REBUILD CHANNELS
REPLACE MANHOLE LID
AND CASTING
RIM EL 24.0
(N) 8" PVC INV EL 18.90 IN
(E) 8" INV EL 18.90 IN
(N) 8" PVC INV EL 18.80 OUT

MH# 9746007
STA 14+59 LAFAYETTE
REMOVE (E) RODHOLE
CONSTRUCT (N) 4 FT 8" PVC INV EL 22.20 OUT

MATCH LINE - STA 11+20 - SEE SHEET 33

REMOVE AND DISPOSE OF (E) 6" SEWER AND INSTALL 297 LF 8" PVC BY OPEN CUT S=0.0111

G
W
G
W
NOTES:
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NOTES:
1. THERE ARE NO KNOWN LATERALS CONNECTED TO THIS OYSTER POND ROAD EERIER ALIGNMENT.