1. THE SPECIFICATIONS FOR THIS PROJECT ARE LISTED BELOW AND ARE IDENTIFIED IN ALL
2. LATEST EDITIONS OF OFFICIAL NMDOT SPECIFICATIONS FOR HIGHWAY AND BRIDGE
3. CONTRACTORS AND UTILITY COMPANIES WORKING IN THE SAME AREA. THE CONTRACTOR
4. MAINTAIN SAFETY DEVICES FOR STREETS AND HIGHWAYS" CURRENT EDITION PUBLISHED BY THE
5. CONTRACTORS AND UTILITY COMPANIES WORKING IN THE SAME AREA. THE CONTRACTOR
6. ANY AREAS DISTURBED BY CONSTRUCTION AND NOT COVERED BY LANDSCAPING OR ANY IMPERVIOUS
7. CONSTRUCTION AREAS SHALL BE WATERED FOR REGULAR TIMES TO CONSTRUCTIVE TIMES.
8. THE CONTRACTOR SHALL NOTIFY THE AFFECTED OWNERS IN ACCORDANCE WITH THE
9. CONTRACTOR WILL MAKE ALL WATER VALVES AND MANHOLES ACCESSIBLE TO CITY OF RIO
10. CONTRACTORS AND UTILITY COMPANIES WORKING IN THE SAME AREA. THE CONTRACTOR
11. SWEEPING AND STRIPPING PROGRAMS FOR EROSION CONTROL DEVICES FOR STREETS AND HIGHWAYS.
12. MINIMUM BOTTOM WIDTH OF TRENCHES FOR RIGID PIPE SHALL BE EQUAL TO THE OUTSIDE
13. THE CONTRACTOR AGREES TO TAKE NECESSARY SAFETY PRECAUTIONS AS REQUIRED BY
14. ALL STRUCTURAL NOTES TO BE SUBMITTED PRIOR TO FINAL INSPECTION. ANY ADDITIONAL
15. NO SIGNIFICANT DEVIATION OF EXPOSED UTILITIES FROM THE LOCATIONS SHOWN ON THE
16. ANY AREAS DISTURBED BY CONSTRUCTION AND NOT COVERED BY LANDSCAPING OR ANY IMPERVIOUS
17. ALL SPLICES IN REINFORCING STEEL TO BE 2-FOOT 6-INCH MINIMUM UNLESS OTHERWISE
18. PRIOR TO CONSTRUCTION THE CONTRACTOR WILL EXCAVATE AND VERIFY THE HORIZONTAL
19. THE CONTRACTOR WILL NOTIFY THE CITY OF RIO RANCHO STORMWATER PERMITTING OFFICE FOR THE
20. THE CONTRACTOR WILL BE RESPONSIBLE FOR SECURITY DEVICES FOR STREETS AND HIGHWAYS.
21. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETAILED REVIEW OF SITE PLANS AND
22. THE CONTRACTOR WILL BE RESPONSIBLE FOR CLEANING SAME AT HIS OWN COST SHOULD SPLASHING OCCUR.
23. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETAILED REVIEW OF SITE PLANS AND
24. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETAILED REVIEW OF SITE PLANS AND
25. THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING
26. SPOIL PILES WILL BE ALLOWED FOR SMALL TRENCHES, EACH CONTRACTOR WILL ISSUE A RECEIPT AND
27. THE CONTRACTOR WILL BE RESPONSIBLE FOR SECURING NPDES PERMITS AND OTHER
28. CONTRACTOR WILL REPLACE REMOVED CURB-AND-GUTTER, SIDEWALK, DRIVE PADS, AND PAVEMENT TO ELEVATIONS PRIOR TO REMOVAL UNLESS OTHERWISE
29. ALL RIPRAP MATERIAL USED ON THIS PROJECT SHALL BE A NATURAL ROCK MATERIAL
30. OVERHEAD WIRE MUST BE BURIED OR SET AT LEAST 2 FEET BELOW THE SURFACE OF THE ROADWAY.
31. ALL USE VALUES, GAS MAINS, ELECTRICAL MAINS, TELEPHONE MAINS, AND UTILITIES MAY BE REQUIRED TO BE REMOVED BY ELECTRICAL COMPANY CONTRACTOR
32. THE CONTRACTOR WILL BE RESPONSIBLE FOR SUPPLYING WATER AS REQUIRED.
33. USE OF THE NMDOT SPECIFICATION "509 - RELIEF VALVES AND COMPRESSION JOINTS" IN THE
34. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF LIVESTOCK OR DOMESTIC ANIMALS FROM THE
35. THE CONTRACTOR WILL BE RESPONSIBLE FOR SECURING WASTER PRODUCT PERMITS FOR HAUL OR DISPOSAL OF WASTE PRODUCTS. IT SHALL BE THE CONTRACTOR’S
36. THE SPECIFICATION "602 - SLOPE AND EROSION CONTROL DEVICES FOR STREETS AND HIGHWAYS"
37. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETAILED REVIEW OF SITE PLANS AND
38. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETAILED REVIEW OF SITE PLANS AND
39. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETAILED REVIEW OF SITE PLANS AND
40. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETAILED REVIEW OF SITE PLANS AND
GENERAL NOTES:
1. BEARINGS ARE BASED UPON NEW MEXICO STATE PLANE GRID BEARINGS (NAD 83-CENTRAL ZONE) AND WERE DERIVED BY GPS RTK OBSERVATIONS REFERENCED TO THE EXISTING S.S.C.A.F.C.A. CONTROL MONUMENT "SP-2". THE COORDINATES SHOWN HEREON ARE MODIFIED (SURFACE) N.M. STATE PLANE COORDINATES AND WERE SCALING BY THE PROJECT COMBINED FACTOR OF 1.000346485 AROUND AN ORIGIN OF 0,0.
2. ELEVATIONS ARE BASED UPON THE NAVD 88 DATUM, AND ARE REFERENCED TO THE S.S.C.A.F.C.A. CONTROL MONUMENT "SP-2" AS WELL (PUBLISHED ELEVATION = 5623.03').
3. THE COORDINATES AND ELEVATIONS SHOWN HEREIN ARE EXPRESSED IN U.S. SURVEY FEET.

CONSTRUCTION NOTES:
1. ALL CONSTRUCTION SHALL REMAIN WITHIN SSCAFCA R/W AND TEMPORARY CONSTRUCTION EASEMENTS (TCE) OBTAINED BY SSCAFCA.
2. IN THE EVENT OF EXCESS MATERIAL AT SEDIMENT STOCK PILE LOCATIONS, COORDINATE WITH AND PROVIDE SSCAFCA PROJECT MANAGER 48-HOURS PRIOR NOTICE FOR HAULING SEDIMENT.

LEGEND:
PROPERTY LINE
EXISTING CONTOUR MAJOR
EXISTING CONTOUR MINOR
CONTOUR MAJOR
CONTOUR MINOR
EDGE OF ROAD
EXISTING FENCE
EXISTING DRIVEWAY
EXISTING WALL
EXISTING CULVERT
NOTE:
1. TRAFFIC CONTROL: CONTRACTOR TO COORDINATE WITH THE CITY OF RIO RANCHO, DAVID SERRANO, P.E. (505) 891.5059 FOR ALL PERMITS AND OTHER ITEMS RELATED TO TRAFFIC CONTROL.
2. CONTRACTOR SHALL FLAG AND PROTECT ARCHAEOLOGICAL SITE DURING CONSTRUCTION.

LEGEND
PROPERTY LINE
EXISTING CONTOUR MAJOR
EXISTING CONTOUR MINOR
EXISTING RAILROAD
EXISTING JH
EXISTING DRAINAGE EASEMENT
EXISTING FENCE
EXISTING WALL
EXISTING CULVERT
HAUL ROUTE
OPTIONAL HAUL ROUTE
CONTACT CORR DEVELOPMENT DEPARTMENT
SSCAFCA PROPERTY TO BE USED FOR ACCESS
50' DRAINAGE EASEMENT
OPTIONAL STAGING AREA/FUTURE SEDIMENT STOCKPILE AREA
AREA TO BE RE-SEEDED IF DISTURBED (INCIDENTAL)
**GENERAL NOTES:**

1. INSTALL 5-STRAND BARBLESS WIRE FENCE, SEE DETAIL SHEET C-500
2. INSTALL FENCE BRACE ON FENCE @ 10 FT INTERVAL
3. PLACE PLATES IF NEEDED PROPERTY LINE MARKERS IN OTHERWISE SHOWN
4. INSTALL GATE PER SHEET C-500, SEE DETAILS SHOWN
5. EXACT LOCATION OF GAS LINE IS UNKNOWN, LOCATE GAS LINE PRIOR TO ANY DIGGING, DO NOT START ANY DIGGING IN THE GAS LINE AREA UNTIL GAS LINE IS LOCATED AND PROJECT MANAGER NOTIFIED LOCATION OF GAS LINE.

**LEGEND**

- PROPERTY LINE
- EXISTING CURTAIN MAJOR
- CURTAIN MAJOR
- SEW OF ROAD
- EXISTING FENCE
- EXISTING DRIVEWAY
- EXISTING WALL
- PROPOSED 5 STRAND FENCE
- PROPOSED CABLE FENCE
- ELECTRICITY
- TELEPHONE
- CABLE TV

**Direction**

<table>
<thead>
<tr>
<th>Line</th>
<th>Curve</th>
<th>Delta</th>
<th>Length</th>
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<tr>
<td>C7</td>
<td>101.412</td>
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<td>43.246</td>
</tr>
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</table>

**Location of Gas Line**

The location of the gas line is unknown. Locate the gas line prior to any digging. Do not start any digging in the gas line area until gas line is located and project manager notified of its location.

**Wind Blown Ditches**

The wind blown ditches are indicated by dashed lines. The locations of the wind blown ditches are shown on the plan for reference.

**Existing Structures**

Existing structures such as walls, walls, and fences are shown in the plan. These structures are marked with solid lines.

**Proposed Structures**

Proposed structures such as fences and walls are shown in the plan. These structures are marked with dashed lines.

**Electrical Lines**

Electrical lines are shown in the plan. These lines are marked with solid lines.

**Telephone Lines**

Telephone lines are shown in the plan. These lines are marked with solid lines.

**Cable TV**

Cable TV lines are shown in the plan. These lines are marked with solid lines.

**Contour Major**

Contours are shown in the plan. The contour major lines are marked with solid lines.

**Sew of Road**

The sew of the road is shown in the plan. This feature is marked with a solid line.
**GENERAL NOTES:**

1. INSTALL 5-STRAND BARBLESS WIRE FENCE, SEE DETAIL SHEET C-500.
2. INSTALL FENCE BRACE ON IN-LINE FENCE @ 300' INTERVAL.
3. PLACE FENCE 0.5' INSIDE PROPERTY LINE UNLESS OTHERWISE SHOWN.
4. 16' WIDE PIPE GATE, SEE DETAILS SHEET C-500.
5. EXACT LOCATION OF GAS LINE IS UNKNOWN. LOCATE GAS LINE PRIOR TO ANY DIGGING. DO NOT START ANY DIGGING IN THE GAS LINE AREA. NOTIFY PROJECT MANAGER WITH LOCATION OF GAS LINE.

**LEGEND:**

- PROPERTY LINE
- EXISTING CONTOUR MAJOR
- CONTOUR MAJOR
- SIDE OF ROAD
- EXISTING DRIVEWAY
- EXISTING CULVERT
- PROPOSED PLACE
- ELECTRICITY
- TELEPHONE
- CABLE TV

**Line Table**

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<th>Radius</th>
<th>Degree</th>
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**Curve Table**

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<tr>
<td>32</td>
<td>36.556</td>
<td>16.970</td>
<td>3/12/2012</td>
</tr>
</tbody>
</table>
REMOVE AND DISPOSE EXISTING CULVERT.

EXISTING FENCE

REQUEST COMMUNICATION BOX TO BE REMOVED AND TO BE RELOCATED TO DESIGN ELEVATIONS.

EXISTING TREE TO REMAIN UNLESS IT INTERFERES WITH PROPOSED FENCE.

EXISTING DRIVEWAY

EXISTING WALL

EXISTING CULVERT

ELECTRICITY

TELEPHONE

CABLE TV

PROJECT NO.

DPI CHK:

SSCAFCA LISBON POND

SHEET:

03898

COMMUNITY DESIGN SOLUTIONS

5971 JEFFERSON STREET SUITE 101

ALBUQUERQUE, NEW MEXICO 87109

WWW.RESPEC.COM  PHONE: (505)253-9718

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REMOVAL PLAN

SCALE: 1" = 100'

LEGEND

PROPERTY LINE

EXISTING CONTOUR MAJOR

EXISTING CONTOUR MINOR

CONTOUR MAJOR

CONTOUR MINOR

EDGE OF ROAD

EXISTING FENCE

EXISTING DRIVEWAY

EXISTING WALL

EXISTING CULVERT

ELECTRICITY

TELEPHONE

CABLE TV
CONSTRUCTION NOTES:

1. ALL CONSTRUCTION SHALL REMAIN WITHIN SSCAFCA R/W AND TEMPORARY CONSTRUCTION EASEMENTS (TCE) OBTAINED BY SSCAFCA.

2. IN THE EVENT OF EXCESS MATERIAL AT SEDIMENT STOCK PILE LOCATIONS, COORDINATE WITH AND PROVIDE SSCAFCA PROJECT MANAGER 48-HOURS PRIOR TO HAULING SEDIMENT.

3. CONTRACTOR TO FIELD VERIFY LOCATION OF HIGH PRESSURE GAS LINES PRIOR TO OVER EXCAVATION. CONTRACTOR TO BE CAREFUL NOT TO DAMAGE GAS LINES DURING OVER EXCAVATION.

LEGEND

PROPERTY LINE
3' OVER EXCAVATION LIMITS
6' OVER EXCAVATION LIMITS
8' OVER EXCAVATION LIMITS

SCALE: 1" = 30'

SCALE: 1" = 40'

SCALE: 1" = 50'

CONSTRUCTION NOTES:

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8' OVER EXCAVATION LIMITS

SCALE: 1" = 30'

SCALE: 1" = 40'

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LEGEND

PROPERTY LINE
3' OVER EXCAVATION LIMITS
6' OVER EXCAVATION LIMITS
8' OVER EXCAVATION LIMITS

SCALE: 1" = 30'

SCALE: 1" = 40'

SCALE: 1" = 50'
TYPE L RIPRAP

RIP RAP SECTION - TYPE M
RIP RAP SECTION - TYPE L

GRAVEL MULCH RESEEDING

2'
35'

DUMPED
RIP RAP
MATERIAL

GRAVEL MULCH RESEEDING

RIP RAP
MATERIAL

24"

DUMPED
FILTER
RIP RAP
MATERIAL

FILTER MATERIAL

PERCENTAGE OF MATERIALS REQUIRED TO BE PLACED, COMPACTED, OR IN PLACE

CLASIFICATION GRADATION

<table>
<thead>
<tr>
<th>DESIGNATION</th>
<th>MAX. DIMENSIONS</th>
<th>% SMALLER</th>
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<td>6</td>
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<td>12 (0.60)</td>
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<td>9 (0.80)</td>
<td>35-55</td>
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<td>6 (1.20)</td>
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<tr>
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<td>3 (1.80)</td>
<td>20-55</td>
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</tr>
<tr>
<td></td>
<td>2 (2.40)</td>
<td>10</td>
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</tr>
</tbody>
</table>

[1] K(M) = mean particle size

FILTER MATERIAL:
FILTER MATERIAL SHALL BE CONSIST OF CRUSHED ROCK MEETING THE FOLLOWING SPECIFICATIONS OR ENGINEER APPROVED EQUIVALENT

U.S. STANDARD PASSING

<table>
<thead>
<tr>
<th>SIEVE SIZE</th>
<th>#200</th>
<th>#40</th>
<th>#4</th>
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<tr>
<td>100</td>
<td>0-5</td>
<td>0-20</td>
<td>25-45</td>
</tr>
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</table>

FILTER MATERIAL SHALL BE PLACED BENEATH THE RIP-RAP AS SHOWN HEREIN. THE FILTER MATERIAL SHALL BE TAMPED AND SHAPED TO FORM THE CONTRACTOR'S OPERATING AND MATERI, YAS OF PLACE SHALL IF PERMISSIBLE AT THE CONTRACTOR'S OPTION. THE FILTER MATERIAL IS NOT TO BE PLACED IN THE VOID SPACES OF THE RIP-RAP.
STA 12+00 LISBON POND/EMERGENCY SPILLWAY CROSS SECTION

STA 16+00 LISBON POND/EMERGENCY SPILLWAY CROSS SECTION

STA 14+05 LISBON POND/EMERGENCY SPILLWAY CROSS SECTION

STA 18+30 LISBON POND/EMERGENCY SPILLWAY CROSS SECTION

SCALE: 1" = 30'

EXISTING GROUND

POND BOTTOM

EMERGENCY SPILLWAY

INCA ROAD

TOP OF DAM

SCALE: 1" = 30'

STA 16+00 LISBON POND/EMERGENCY SPILLWAY CROSS SECTION

EXISTING GROUND

EMERGENCY SPILLWAY

POND BOTTOM

TOP OF DAM
INSTALL LISBON POND PRINCIPAL SPILLWAY
INSTALL RIPRAP BLANKET, PER DETAIL, SHEET C-509.

SOUTH EASTALIA ROAD
SOUTH CTY
INSTALL 20' X 20' LOW TAILWATER BASIN, PER DETAIL,
INSTALL TYPE II MDI PER NMDOT SERIALS

DESCRIPTION
INSTALL CULVERT END SECTION PER NMDOT
INSTALL 6' DIA. MANHOLE PER NM APWA STD. DTL. 2101

PRIOR TO ANY CONSTRUCTION, AND NOTIFY
VERTICAL TO BE VERIFIED BY CONTRACTOR
HORIZONTAL PROVIDED BY SURVEYOR
ENGINEER WITH ANY DISCREPANCIES.
EXISTING TELEPHONE, CABLE TV, AND
ELECTRIC LINES TO BE RELOCATED.
EXISTING 16" WATERLINE
TO BE RELOCATED PER

MATCHLINE - STA 16+50.00
I.D.:

SCALE:
VERTICAL: 1" = 10'
HORIZONTAL: 1" = 30'

LEGEND
PROPERTY LINE
EXISTING CONTour MOLeUR
EXISTING CONTOUR SHoW
CONTour SOL\EUR
CONTour SHoN\E\R
BED OF ROAD
EXISTING PIPE
EXISTING CULVERT
EXISTING ELECTRICAL
EXISTING GAS LINE
EXISTING LOW PRESSURE GAS
EXISTING HIGH PRESSURE GAS
EXISTING WATERLINE
EXISTING HIGH PRESSURE GAS
EXISTING CABLE TV
EXISTING STORM DRAIN
EXISTING 36" HIGH PRESSURE GAS
36" HIGH PRESSURE GAS

SOUTH EASTALIA ROAD INCA RD
INSTALL 4' DIA MH #1
INSTALL 24'' STORM DRAIN
INSTALL DOUBLE D INLET, SEE SHEET C-510
INCA RD

SITE PLAN:
INSTALL 263.36' OF 30" STORM DRAIN PIPE @ 2.92%

SITE PLAN:
BUILD 6' DIA MH #2
BUILD 4' DIA MH #1

SITE PLAN:
STA: 12+84.63
EG = 5598.53
PG = 5598.53

SITE PLAN:
STA: 15+47.99
EG = 5596.76
PG = 5596.76

SITE PLAN:
STA: 15+70.41
EG = 5596.76
PG = 5596.76

SITE PLAN:
STA: 15+79.02
EG = 5596.76
PG = 5596.76

SITE PLAN:
STA: 15+93.03
EG = 5592.57
PG = 5592.57

SITE PLAN:
INV=5592.28'

SITE PLAN:
16" HIGH PRESSURE GAS
20" HIGH PRESSURE GAS
24" STORM DRAIN PIPE
16" GHP
20" GHP
24" GHP

SITE PLAN:
TOP OF PIPE

SITE PLAN:
BOTTOM OF PIPE

SITE PLAN:
LEGEND
INSTALL STORM DRAIN INLET SINGLE 'D' PER DETAIL, INSTALL TYPE II MDI PER NMDOT SERIALS.
**FACILITY SIGN DETAIL**

**FACILITY NAME**
- Name: SCAFCA Lisboa Pond
- Tagline: Solutions for Muncipal Outdoor Traffic or Parking Signs
- Font: Arial
- Lettering: 1.25" high, white background

**SIGN MATERIAL**
- Type: 63 mil thick aluminum with diamond reflective material
- Inks: premium 3M inks
- Reflective: red and orange reflective

**SIGNAGE DESIGN**
- Materials: designed for municipal outdoor traffic or parking signs
- Typography: 1" Arial font
- Colors: bright yellow above finished grade, red reflective material

**CONSTRUCTION NOTES**
- 4" diameter wood post typical
- 2" diameter wood post typical
- 2" diameter metal post typical

**CABLE BOLT DETAIL**
- Bolt: grade 5.6, diameter 1/2" or grade 7.5, diameter 5/8"
- Nut: full thread, plain or galvanized

**STEEL CABLE CLAMP DETAIL**
- Clamp: grade 1.25" or grade 1.625"
- Wire: 5 strand, galvanized

**GATE FENCE AND SIGNAGE**
- Steel cable: 3/16" diameter, 7 strands, 1.25" nominal diameter
- Wood post: 6" diameter, 18" high
- Concrete collar: 5'x5'x3'x3'

**CONCRETE TYPICAL**
- Footing: 5'x5'x3'x3'
- Placement: 28 days after pouring

**GATE FENCE AND SIGNAGE**
- Steel cable: 3/16" diameter, 7 strands, 1.25" nominal diameter
- Wood post: 6" diameter, 18" high
- Concrete collar: 5'x5'x3'x3'

**ACCESSORY**
- Padlock: 10" wide
- Plate: 2" size

**WOODEN FENCE**
- Post: 6" diameter, 18" high
- Beams: 4"x4"x12'

**CONCRETE COLAR**
- Dimensions: 5'x5'x3'x3'

**GENERAL NOTES**
- All material and details are subject to change without notice.
- All dimensions are approximate and subject to change without notice.
- All specifications and details are subject to change without notice.
- All work shall be performed in accordance with applicable codes and standards.
- All work shall be performed in accordance with the drawings and specifications.

**ENGINEER**
- RESPEC - HUGH FLOYD, P.E.

**CONTRACTOR**
- XXX CONTRACTING, INC.

**SIGNAGE**
- Located: Stationary
- Name: SCAFCA LISBON POND
- Tagline: Solutions for Muncipal Outdoor Traffic or Parking Signs
- Font: Arial
- Lettering: 1.25" high, white background
1. CONCRETE WALL, SEE PLANS.
2. REVERSE INCLINE PORT OPENING.
3. DOUBLE CORRUGATED METAL PIPE.
4. BLOCKOUT OPENING.
5. 1/4"Øx1 1/2" GALVANIZED TAPCON.
6. 2x2x0.160 GAUGE GALVANIZED STEEL BAR.

NOTES:

1. REVERSE INCLINE PORT OPENING.
2. #4 REBAR AT 4" O.C. EACH WAY, OF STRUCTURE.
3. REVERSE INCLINE WIER OPENING.
4. BLOCKOUT (DRAIN PORT) OPENING.
5. 2" OF END OF HATCH.
6. 2x2x1/4 GALVANIZED GRATE SUPPORT.

VIEWS ARE FROM INSIDE STRUCTURE.

ALL MESH SHALL BE INSTALLED ON INSIDE ENCLOSURE AS OCCURS.

WELD TO BE PER AWS D1.4. GALVANIZE AFTER WELDING.

AS POSSIBLE.

SCREWS PER MANUFACTURERS

RISER PRINCIPAL SPILLWAYS

GALVANIZING PAINT.

OR FIELD WELDED AND FINISH REPAIRED.

MAY BE SHOP WELDED AND GALVANIZED AT CONTRACTORS OPTION, SHEAR TAB:

3/8"Ø 6" EXPANSION BOLT. SADDLE PLATE FORMED AS SHOWN WITH WELDED WIRE MESH.

WELD TO FORM GALVANIZED GRATE.

LOCK TAB

4. 3/16x1x0'-1" GALVANIZED BAR AS STEEL BEAM AT CONCRETE WALL.

SECTION AT ACCESS HATCH

1/8 STEEL GRATE.

DIAMETER OF GRATE SHALL BE 2" LESS OF STRUCTURE.

MINIMUM LOCKING HATCH.

3/8"Øx4" GALVANIZED ANGLE WITH 3/8"Øx4" GALVANIZED ANGLE WITH 3/8"Ø HOLE FOR PADLOCK WELDED TO GRATING AND SUPPORT WITH (2) 5/8"Øx6" GALVANIZED HEADED ANCHORS AT 24" O.C. HEADED ANCHORS AT 24" O.C.

BOLTS.

1 1/2"Ø GALVANIZED SCREWS WITH 1 1/2"Ø GALVANIZED SCREWS.

GALVANIZED GRATE, SEE PLANS.

PLATE SHALL OCCUR IN (4) LOCATIONS 5/8"Øx6" EXPANSION BOLT. SADDLE PLATE FORMED AS SHOWN WITH WELDED WIRE MESH.

As close to 45° locations and as possible.

FENDER WASHERS IN EACH CORNER AND WELDED WIRE MESH.

As close to center of concrete fill as possible.

GRATES / GRADE DETAILS

GRATING PLAN VIEWS / DETAILS

REVISIONS (OR CHANGE NOTICES)

DATE DESCRIPTION

CHECKED BY:

DRAWN BY:

DESIGNED BY:

PROJECT NO.

SCALE: 3/8"=1'-0"

117106-07D12

117106-07D13

117106-07D11

117106-07D10

117106-07

10'-0"x10'-0" GRATE PLAN VIEW

8'-0"x8'-0" GRATE PLAN VIEW

10'-0"x10'-0" GRATE PLAN VIEW

DOUBLE CMP GRATE PLAN VIEW

GRATE PLAN VIEWS / DETAILS

CITY OF ALBUQUERQUE

PORTED RISER GRATE DETAILS

SSCAFIA LISBON POND

GRATING PLAN VIEWS / DETAILS

Solutions for Today...

Vision for Tomorrow
1. THIS DESIGN IS TO BE ISSUED ALONG WITH THE STRUCTURAL NOTES AND TYPICAL DETAILS.
2. THIS DESIGN IS TO HAVE THE APPROPRIATE GRATE ELEVATION SHEET.
3. 48"Ø CORRUGATED METAL PIPE
4. PROPOSED 30"Ø STORM DRAIN PIPING
5. LINE OF OVER EXCAVATION AND CONCRETE FILL
6. 6"Ø PVC FORMED REVERSE INCLINE PORT OPENING
7. LINE OF OVER EXCAVATION AND CONCRETE FILL
8. PROPOSED 30"Ø STORM DRAIN PIPE

NOTES:
1. 12" THICKENED SLAB WITH 42" X 42" SLAB OVER 5" SLAB IN DRAIN PORT.
2. 66"Ø CORRUGATED METAL PIPE
3. 66"Ø CORRUGATED METAL PIPE
4. PROPOSED 30"Ø STORM DRAIN PIPING
5. LINE OF OVER EXCAVATION AND CONCRETE FILL

PLAN VIEW - LEVEL 2 DRAIN PORTS

ELEVATION A

ELEVATION B

SECTION C

SECTION AT REVERSE INCLINE PORTS

LEVEL 1 PORTS

LEVEL 2 PORTS

SECTION AT REVERSE INCLINE PORTS

16'-8"
10'-0" 6'-8" MIN.
ELEVATION A ELEVATION B
1'-0"
SLOPE 3:1

CROSS SECTION SHOWN FROM REINFORCEMENT PLAN ONLY

SECTION A-A CUT SECTION SHEET C-106

SECTION B-B CUT SECTION SHEET C-106

SECTION C-C CUT SECTION SHEET C-108

100YR WSE

CHANNEL BOTTOM = 5568.75'

100YR WSE

24" TOP OF WEIR 5577'
PLUNGE POOL AND CHECKS DETAILS

SEE SHEETS C-112 THRU C-114 FOR STRUCTURE LOCATIONS

SEE SHEETS C-111 FOR STRUCTURE LOCATIONS

TYPE II
STONE DAM

EDGE OF SHOULDER

FLEX OF POINT B SHOULD BE ABOVE OR EQUAL TO POINT A.

1"-3" WASHED GRAVEL

PROVIDE 6" SAG AT MIDPOINT

THIS POINT SHALL NOT EXCEED THE EDGE OF THE SHOULDER ELEVATION.

FLOW

TRAFFIC FLOOR

 lưu lượng

XÁC SỰ

18" TO 30"-

WARES

LEVEL CREST WITH
FINISHED GRADE

9" ROCK RIPRAP

9" ROCK RIPRAP

RIPRAP PLUNGE POOL DETAIL AT 36'' SD OUTLET UNDER PIA (SHEET C-110)

 trắng

đá

KHUNG NGHIỆP:

XẢO

LƯƠNG

XÁC SỰ

18" THICK
GRAVEL
FILTER MATERIAL

24" THICK RIPRAP
TYPE M

LEVEL CREST WITH
FINISHED GRADE

FLOW DIRECTION

FLOW DIRECTION

9" ROCK RIPRAP

9" ROCK RIPRAP

1''=1'

GRADE CONTROL CHECK STRUCTURE

DESIGNED BY:

DRAWN BY:

CHECKED BY:

DATE:

REVISIONS (OR CHANGE NOTICES)

NO.

DESCRIPTION

DATE

PROJECT NO.

DPI CHK:

COMMUNITY DESIGN SOLUTIONS

5971 JEFFERSON STREET SUITE 101
ALBUQUERQUE, NEW MEXICO 87109
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BEDDING: SUITABLE MATERIAL SHALL BE CLASS I OR II. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. COMPACTION SHALL BE SPECIFIED BY THE ENGINEER IN ACCORDANCE WITH TABLE 3 FOR THE APPLICABLE FILL HEIGHTS LISTED.

MIN. COVER

- MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS)
- 4" (MIN.) COVER
- 12" (MIN.) COVER

FOUNDATION:
WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A MIN. R = 2' + d

PAVEMENT:
ASPHALT R = 2'

REVISIONS (OR CHANGE NOTICES)

GENERAL NOTES:
1. PIPE PENETRATION INTO MANHOLE SHALL BE FLUSH WITHIN 6" OF M.H. TO BELL OF FIRST JOINT AND SHALL CLEAR SUPERSTRUCTURE SIDE OF MAIN LINE.
2. M.H. GREATER THAN 18' IN DEPTH SHALL BE OF PRECAST CONC. SECTIONS ONLY.
3. DESIGN APPLIES TO 4' AND 6' I.D. MANHOLES.
4. USE NON-SHRINK GROUT FOR JOINTS, FILLETS & FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.
5. COMPACT ALL BACKFILL AROUND M.H. TO 95%.
6. POSITION M.H. OPENING OVER THE UPSTREAM SIDE OF MAIN LINE.

CONSTRUCTION NOTES:
1. TOP OF PAD. T. IN UNPAVED AREAS SET FRAME TO GRADE AND SLOPE STEPS TO BE INSTALLED AS PER SPEC. SECTION 920.4.7.
2. SHELF TO BE 9" WIDE MIN.
3. SLOPE 1" PER FT. FROM PIPE CROWN.
4. CONCRETE FILL, 3000 PSI.
5. COMPACT ALL BACKFILL AROUND M.H. TO 95%.
6. USE A 5' X 5' CONCRETE PAD IN ALL AREAS.

NOTES:
5. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, IS 12" (300mm) FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED UNLESS OTHERWISE NOTED BY THE ENGINEER, AS STABILIZED USING A GEOTEXTILE MATERIAL.
6. WHEN REQUIRED.

DESIGN:
MANHOLE TYPE "E"