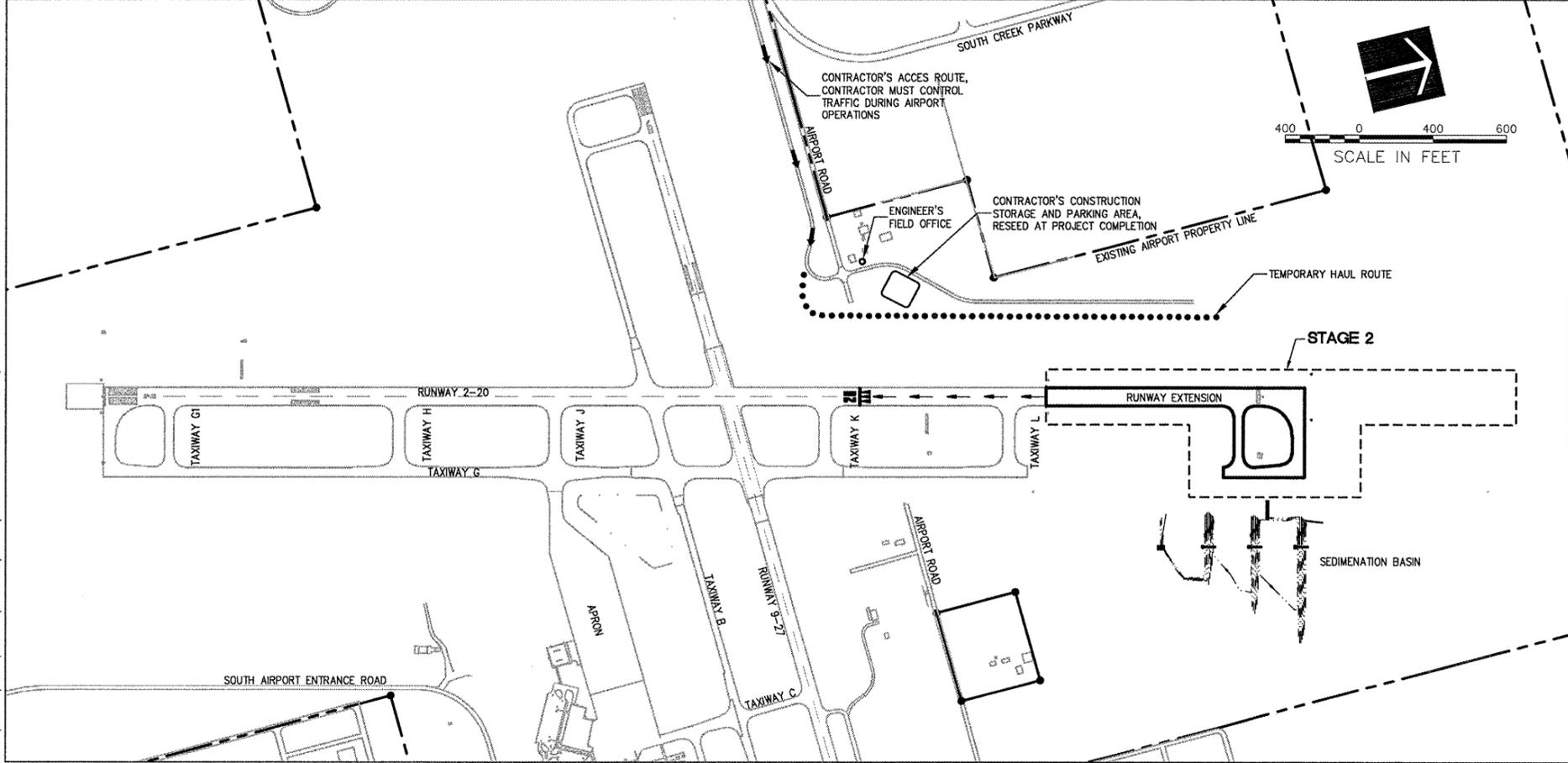


- ### STAGE 1
- NOTES:**
- ALL CONTRACTOR'S ACTIVITIES SHALL TAKE PLACE WITHIN CONSTRUCTION LIMIT LINES AS SHOWN.
  - ALL CONSTRUCTION EQUIPMENT WILL BE LIMITED TO A HEIGHT OF 25 FEET (EXCEPT THE STORAGE AREA, WHICH IS LIMITED TO 15 FEET) UNLESS PRIOR APPROVAL GIVEN BY THE ENGINEER.
  - CONTRACTORS EQUIPMENT MAY NOT DISRUPT FLIGHT OPERATIONS ON RUNWAY 9-27 DURING STAGE 1, 2 AND 3A
  - SEE CONSTRUCTION AND SAFETY NOTES, SHEET 4.
- THE FOLLOWING ITEMS ARE TO BE COMPLETED IN STAGE 1:**
- PLACE LATHING AND WARNING TAPE AND BARRICADES AS SHOWN.
  - INSTALL TEMPORARY SOIL EROSION CONTROL MEASURES AS REQUIRED.
  - PAVEMENT REMOVAL AND MARKING FOR TEMPORARY THRESHOLD
  - TEMPORARY THRESHOLD LIGHTING
  - REMOVE ANY REMAINING DEBRIS AND SWEEP PAVEMENTS
  - REMOVE BARRICADES AND LATHING AND WARNING TAPE
  - REMOVE RUNWAY CLOSURE MARKERS

- ADDITIVE ALTERNATE NO. 1 (WORK MAY BE COMPLETED IN ANY STAGE):**
- INSTALLATION OF PVC STORM SEWER AND END SECTIONS
  - INSTALLATION OF PERFORATED RISERS
  - INSTALLATION OF RIPRAP



- ### STAGE 2
- THE FOLLOWING ITEMS ARE TO BE COMPLETED IN STAGE 2:**
- COMPLETE UNCLASSIFIED EXCAVATION WITHIN LIMITS
  - INSTALL CONCRETE ENCASED DUCT
  - REMOVE UNDERDRAIN AS SPECIFIED
  - PLACE AGGREGATE BASE AND PCC PAVEMENT WITHIN LIMITS
  - INSTALL UNDERDRAINS AND STORM SEWER
  - INSTALL LIGHTING CABLES, EDGE LIGHTING, AND GUIDANCE SIGNS. PROPOSED CABLES, EDGE LIGHTING AND SIGNAGE TO BE IN PLACE PRIOR TO CUTTING INTO ANY EXISTING CABLES. CONTRACTOR TO PROVIDE 3 DAYS ADVANCE NOTICE PRIOR TO CUTTING ANY EXISTING CABLES.
  - RELOCATE LOCALIZER, REELS AND THRESHOLD LIGHTING
  - MARKING WITHIN STAGE 2 LIMITS
  - PLACE TOPSOIL, SEEDING/SODDING AND MULCHING
  - REMOVE REMAINING DEBRIS AND SWEEP PAVEMENTS
  - REMOVE BARRICADES AND LATHING AND WARNING TAPE

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EXTEND RUNWAY 2-20; CONSTRUCT TAXIWAY TURNAROUND

AIP PROJECT NO. 3-17-0140-B42  
IDA PROJECT NO. LOT-3792

No.	Drawing Issue Description	Date	By

Date

APRIL 18, 2008

Sheet Title

**CONSTRUCTION STAGING PLAN STAGES 1 AND 2**

07A0166	Project Number	LDH	03/10/08	5
LDH	Layout By	LDH	03/10/08	
RMH	Designed By	LDH	03/20/08	
LDH	Reviewed By	---	---	
LDH	Drawn By	---	---	
---	Sheet No.	---	---	

4: 107A0166 (00840) (07A0166) DRAWINGS (SHEET) (05-STAGING PLAN) APR 18, 2008 10:13AM HAUSM0062





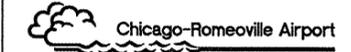


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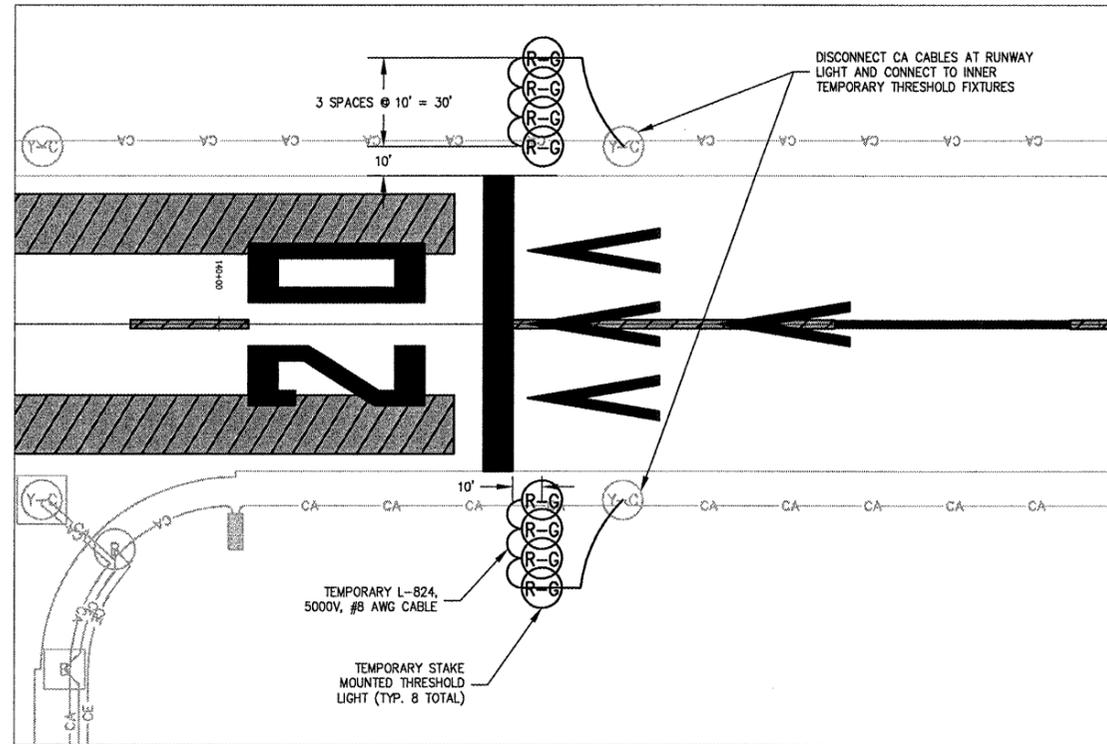


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EXTEND RUNWAY 2-20; CONSTRUCT  
TAXIWAY TURNAROUND

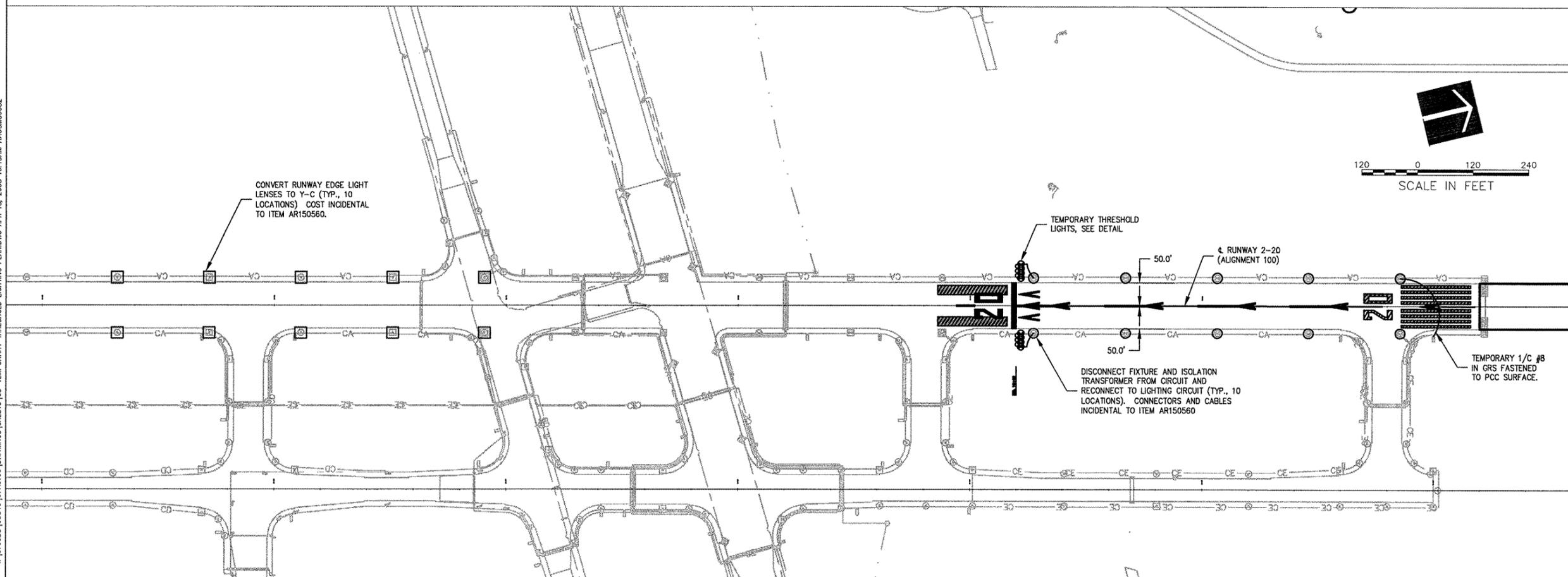
AIP PROJECT NO. 3-17-0140-B42  
IDA PROJECT NO. LOT-3792



TEMPORARY RUNWAY 20 THRESHOLD - LIGHTING

NOTES

1. ALL WIRING, LENSES, LIGHT FIXTURES, ETC. ASSOCIATED WITH THE TEMPORARY RUNWAY THRESHOLD LIGHTING ARE TO BE INCLUDED IN ITEM AR150560. 10 Y-C LENSES AND 8 R-G LENSES WILL BE REQUIRED FOR THE TEMPORARY THRESHOLD.
2. THE TEMPORARY STAKE MOUNTED THRESHOLD LIGHTS AND LENSES MAY BE REUSED FOR SUBSEQUENT WORK WHERE APPLICABLE ONCE THE TEMPORARY FACILITIES ARE REMOVED.



I:\02\085\08840\07A0166\DRAWINGS\SHEETS\08-TEMPORARY THRESHOLD LIGHTING PLAN\18\_APR\_18\_2008 10:13AM HAUSM0662

No.	Drawing Issue Description	Date	By

Date  
APRIL 18, 2008  
Sheet Title

TEMPORARY THRESHOLD  
RUNWAY LIGHTING  
MODIFICATION PLAN

07A0166  
Project Number  
LDH 03/14/08  
Layout By Date  
LDH 03/14/08  
Designed By Date  
RMH 03/20/08  
Reviewed By Date  
LDH  
Drawn By Sheet No.



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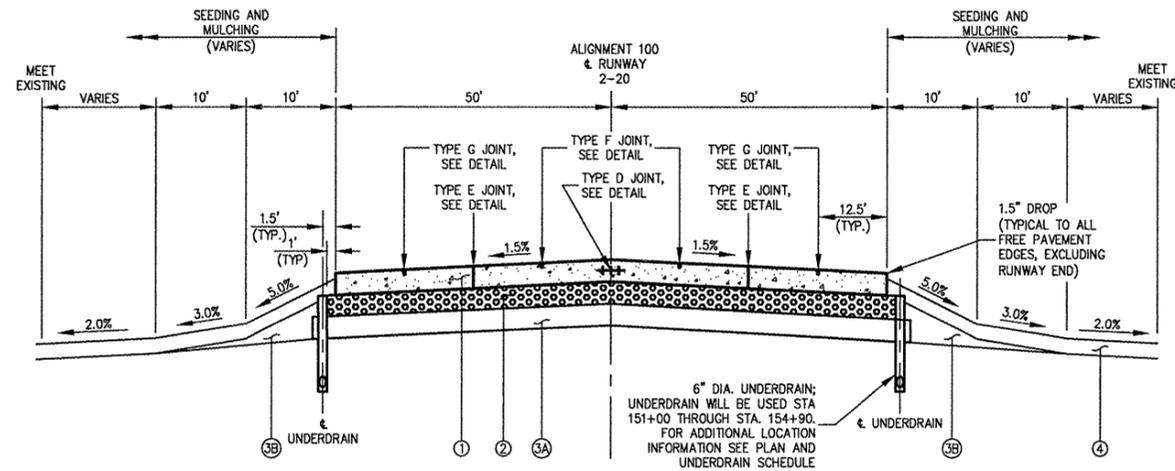


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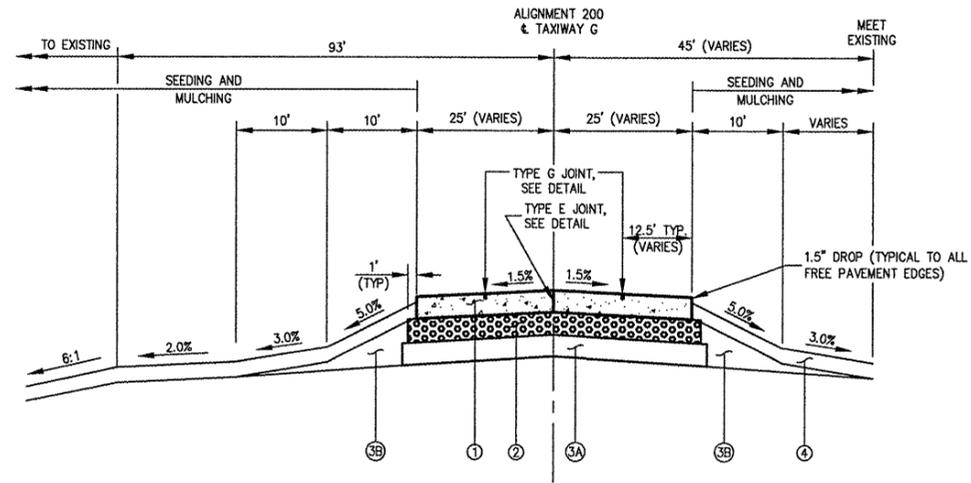
1 George Michas Drive  
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Fax: 815.838.9524

EXTEND RUNWAY 2-20: CONSTRUCT  
TAXIWAY TURNAROUND

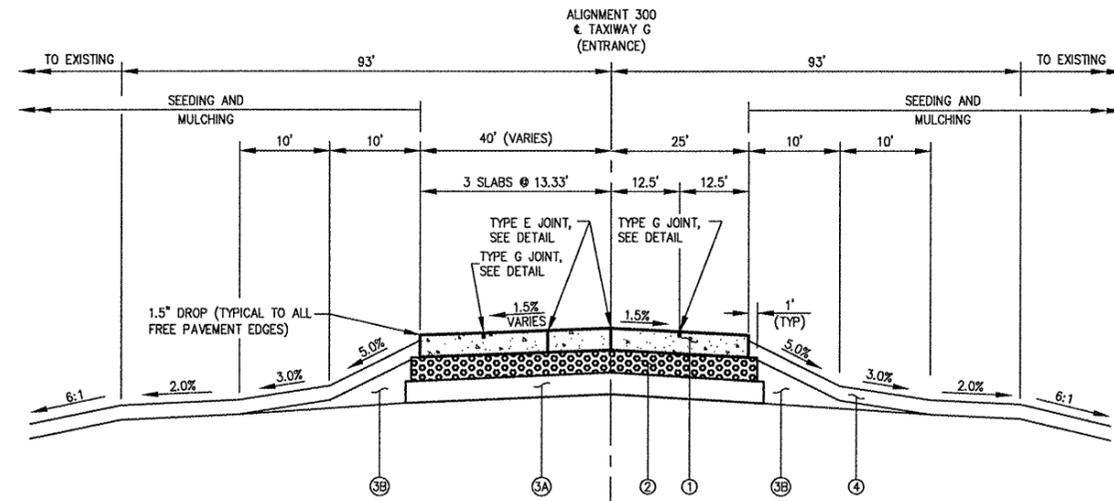
AIP PROJECT NO. 3-17-0140-B42  
IDA PROJECT NO. LOT-3792



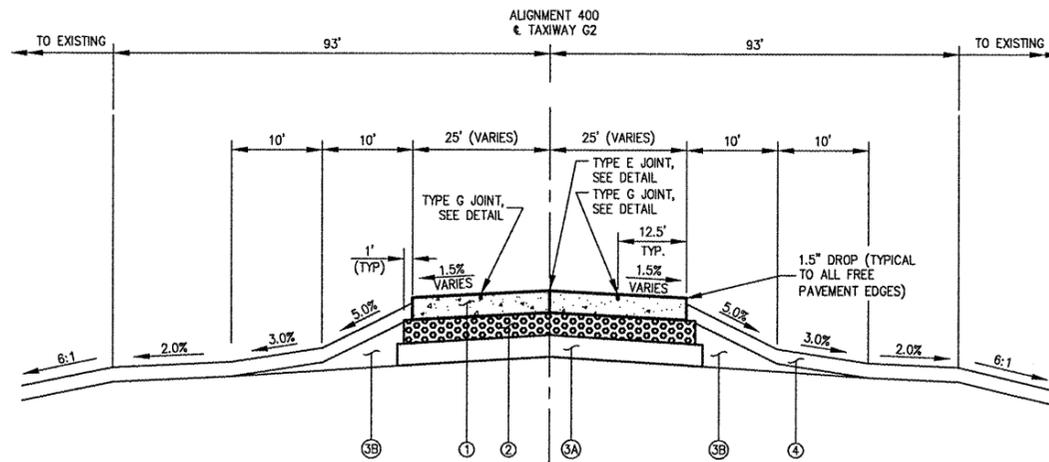
TYPICAL SECTION - RUNWAY 2-20 AND TAXIWAY G  
(SECTION SHOWN LOOKING NORTH)



TYPICAL SECTION - TAXIWAY G2  
(SECTION SHOWN LOOKING EAST)



TYPICAL SECTION - TAXIWAY G (ENTRANCE)  
(SECTION SHOWN LOOKING EAST)



- ① PROPOSED 10 INCH PCC PAVEMENT, ITEM AR501510
- ② PROPOSED 6 INCH CRUSHED AGGREGATE BASE COURSE, ITEM AR209606
- ③ PROPOSED PREPARED SUBGRADE:
  - A. SUBGRADE PREPARATION WITHIN 5 FEET OF PROPOSED PAVEMENT EDGE.
  - B. FILL OUTSIDE THESE AREAS MAY BE NON-STRUCTURAL FILL. CUT AREAS - REMOVE TOPSOIL AND CLAY TO FINISHED SUBGRADE ELEV. FILL AREAS - REMOVE TOPSOIL AND PLACE CLAY FILL TO FINISHED SUBGRADE ELEVATION.
- ④ PROPOSED 4 INCH TOPSOIL IN SEEDING AND MULCHING AREAS, ITEM AR905510

NOTES:

- 1. FOR ADDITIONAL INFORMATION AND VARIATIONS ON TYPICAL JOINTING, SEE JOINTING PLAN AND DETAILS.
- 2. FOR ADDITIONAL LANDSCAPING INFORMATION, SEE LANDSCAPING PLAN.

No.	Drawing Issue Description	Date	By

Date  
APRIL 18, 2008  
Sheet Title

TYPICAL SECTIONS

07A0166  
Project Number  
LDH 02/21/08  
Layout By Date  
LDH 02/21/08  
Designed By Date  
RMH 03/20/08  
Reviewed By Date  
Drawn By Sheet No.







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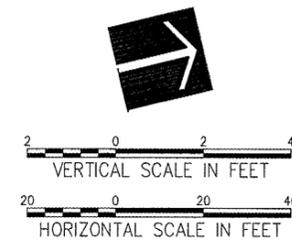
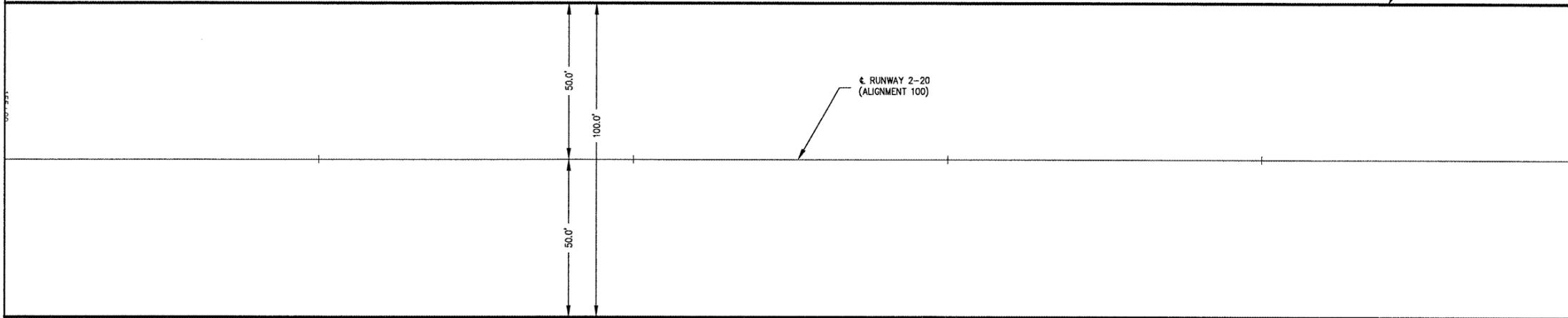
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TAXIWAY TURNAROUND

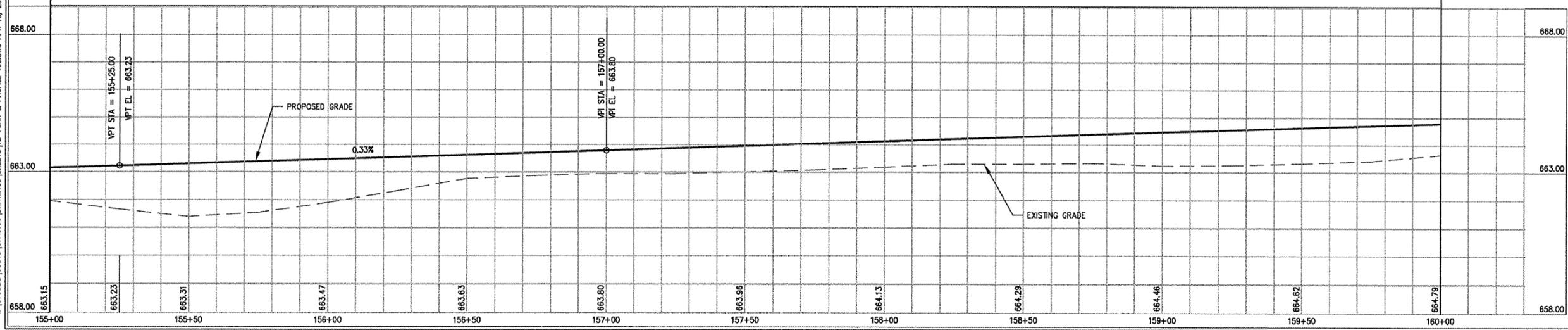
AIP PROJECT NO. 3-17-0140-B42  
IDA PROJECT NO. LOT-3792

MATCH LINE STA. 155+00

MATCH LINE STA. 160+00



**NOTES:**  
1. FOR NOTES AND LEGEND, SEE SHEET 11.



No.	Drawing Issue Description	Date	By

Date  
APRIL 18, 2008  
Sheet Title

**PLAN AND PROFILE  
RUNWAY 2-20  
STA. 155+00 THRU  
STA. 160+00**

07A0166  
Project Number  
LDH 02/26/08  
Layout By Date  
LDH 02/26/08  
Designed By Date  
RMH 03/20/08  
Reviewed By Date  
Drawn By Sheet No.

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EXTEND RUNWAY 2-20; CONSTRUCT  
TAXIWAY TURNAROUND

AIP PROJECT NO. 3-17-0140-B42  
IDA PROJECT NO. LOT-3792

MATCH LINE STA. 155+00

GRADING FOR FUTURE BLAST  
PAD, SEE CROSS SECTIONS AND  
STAKING PLANS

← RUNWAY 2-20  
(ALIGNMENT 100)

170+00



VERTICAL SCALE IN FEET

HORIZONTAL SCALE IN FEET

NOTES:

- 1. FOR NOTES AND LEGEND, SEE SHEET 11.

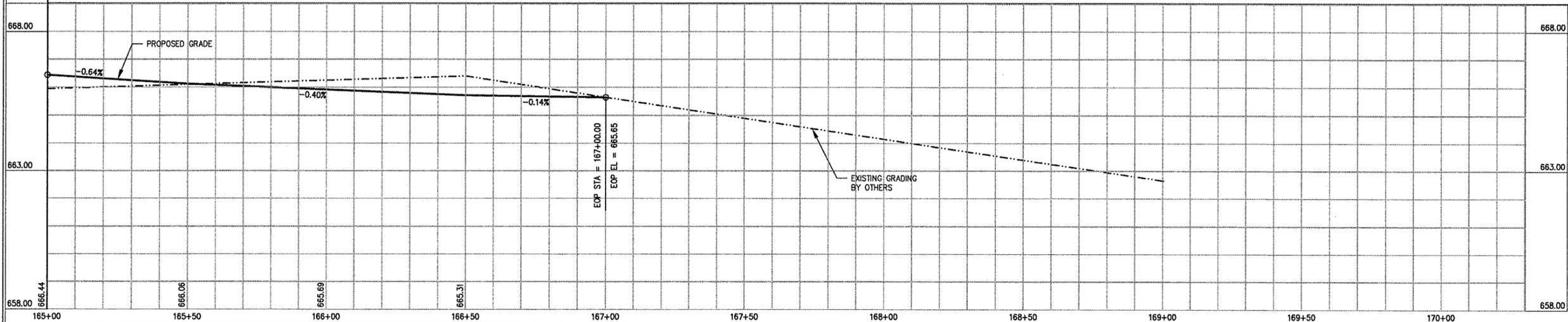
END PROPOSED 10"  
PCC PAVEMENT

PROPOSED GRADE

EXISTING GRADING  
BY OTHERS

EDP STA = 167+00.00  
EDP EL = 665.65

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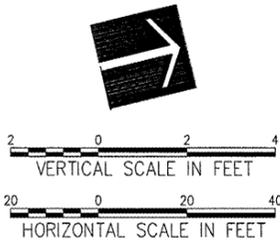
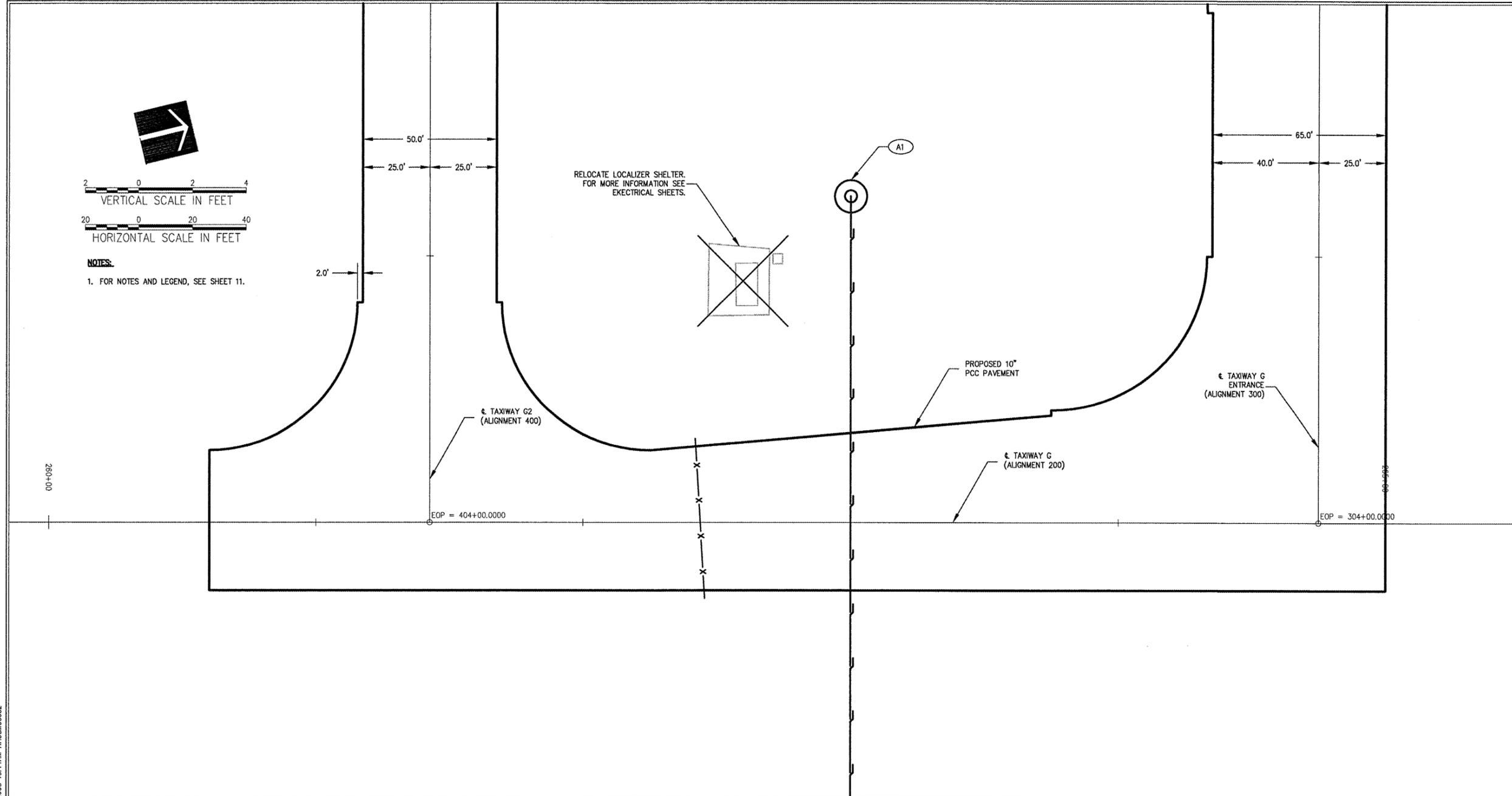


No.	Drawing Issue Description	Date	By

Date  
APRIL 18, 2008  
Sheet Title

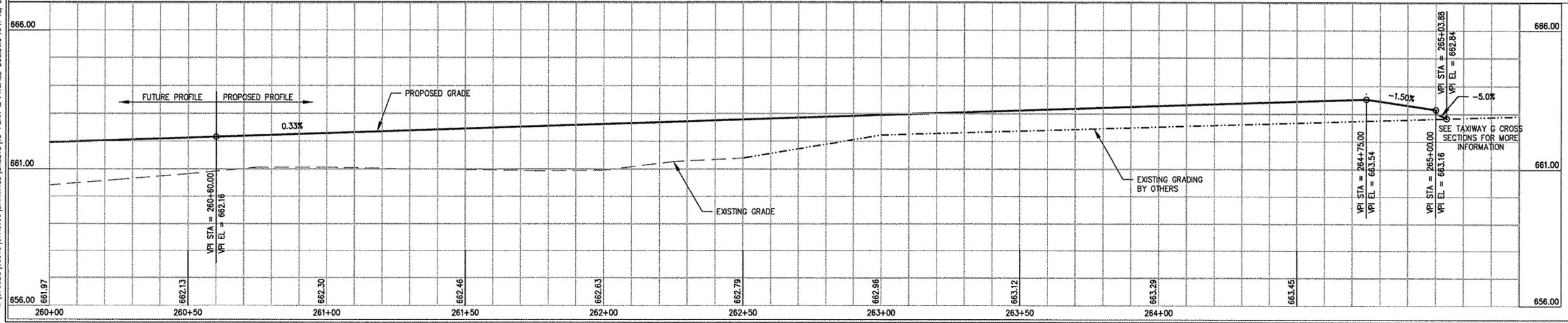
PLAN AND PROFILE  
RUNWAY 2-20  
STA. 165+00 THRU  
STA. 170+00

07A0166  
Project Number  
LDH 02/26/08  
Layout By Date  
LDH 02/26/08  
Designed By Date  
RMH 03/20/08  
Reviewed By Date  
Drawn By Sheet No.



NOTES:

1. FOR NOTES AND LEGEND, SEE SHEET 11.



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EXTEND RUNWAY 2-20; CONSTRUCT  
TAXIWAY TURNAROUND

AIP PROJECT NO. 3-17-0140-B42  
IDA PROJECT NO. LOT-3792

No.	Drawing Issue Description	Date	By

Date  
APRIL 18, 2008  
Sheet Title

PLAN AND PROFILE  
TAXIWAY G

07A0166  
Project Number  
LDH 02/26/08  
Layout By Date  
LDH 02/26/08  
Designed By Date  
RMH 03/20/08  
Reviewed By Date  
Drawn By Sheet No.

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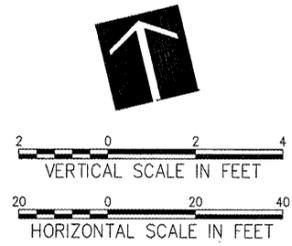


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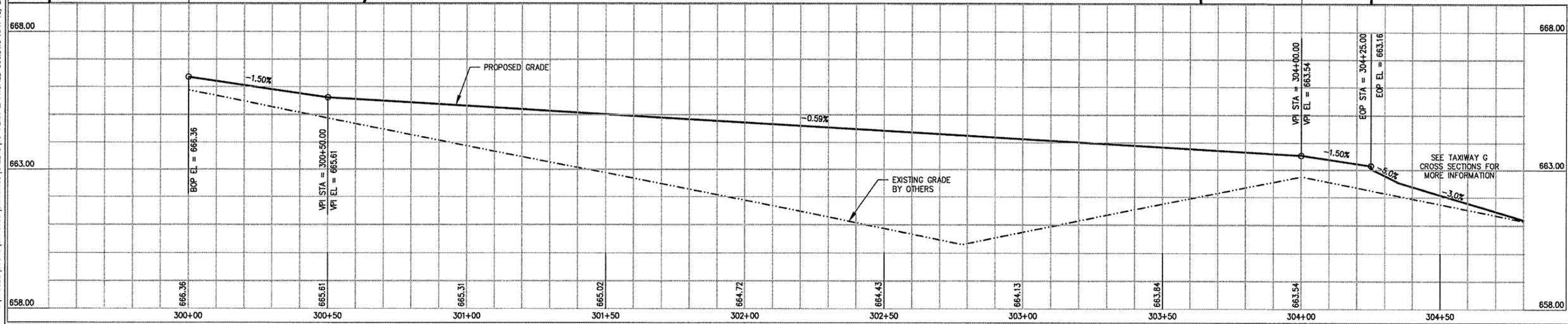
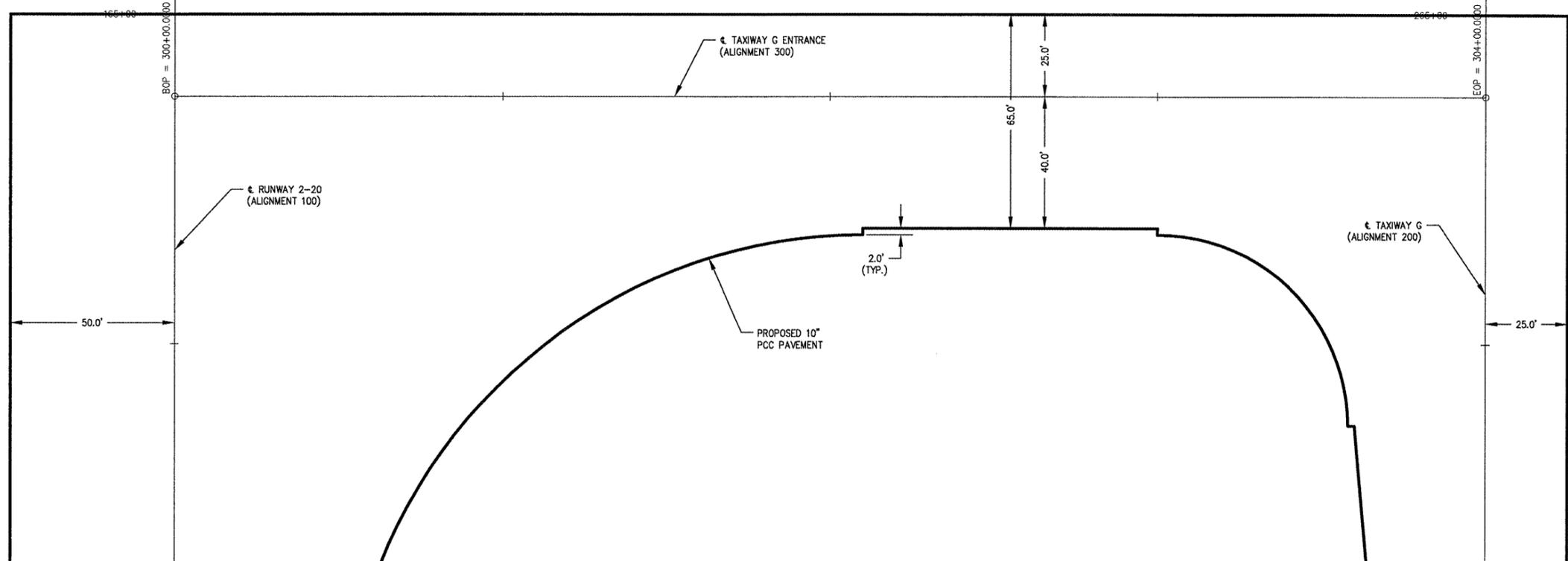
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EXTEND RUNWAY 2-20: CONSTRUCT  
TAXIWAY TURNAROUND

AIP PROJECT NO. 3-17-0140-B42  
IDA PROJECT NO. LOT-3792



NOTES:  
1. FOR NOTES AND LEGEND, SEE SHEET 11.



No.	Drawing Issue Description	Date	By

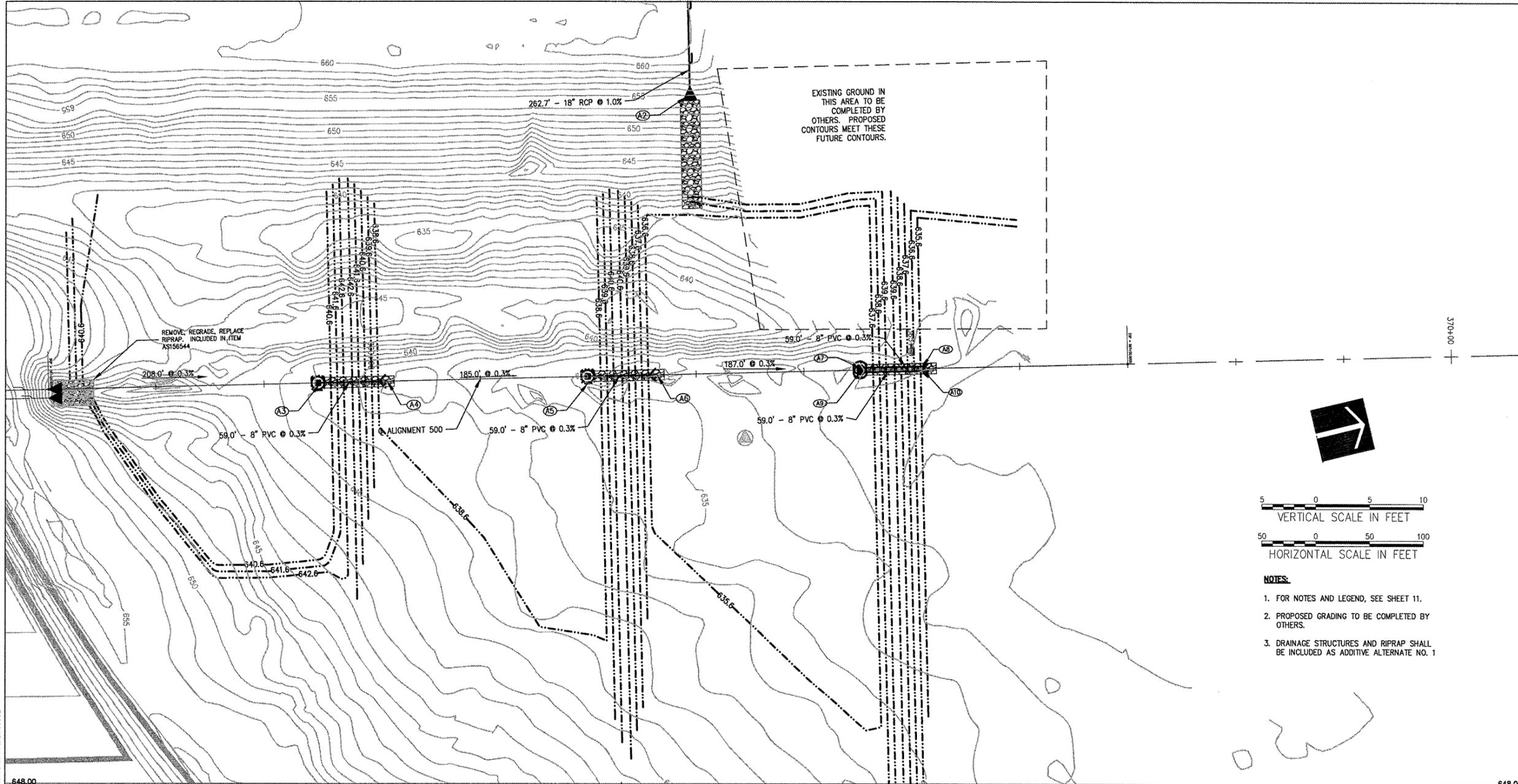
Date  
APRIL 18, 2008  
Sheet Title

PLAN AND PROFILE  
TAXIWAY G ENTRANCE

07A0166  
Project Number  
LDH 03/12/08  
Layout By Date  
LDH 03/12/08  
Designed By Date  
RMH 03/20/08  
Reviewed By Date  
Drawn By Date

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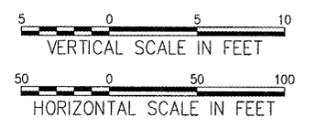




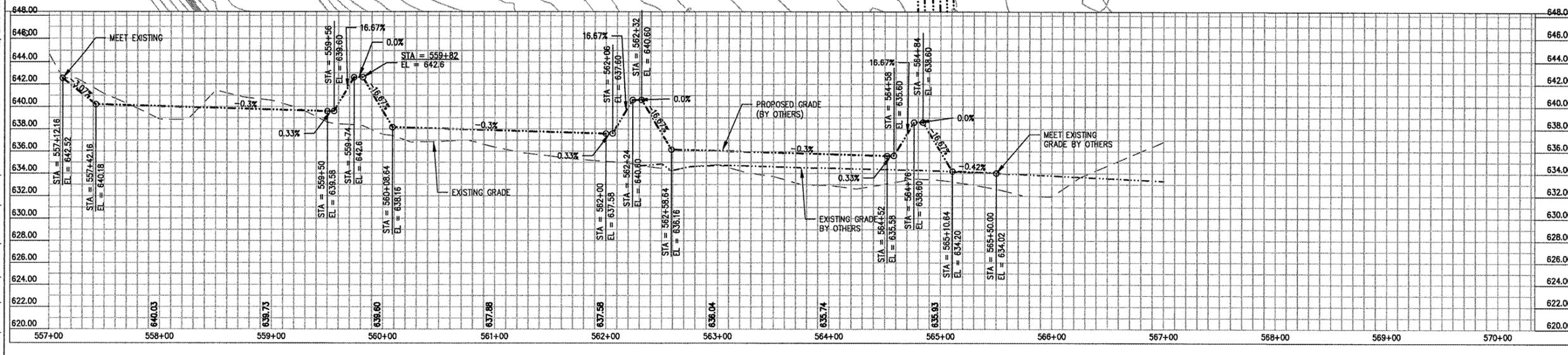
EXISTING GROUND IN THIS AREA TO BE COMPLETED BY OTHERS. PROPOSED CONTOURS MEET THESE FUTURE CONTOURS.

REMOVE, REGRADE, REPLACE RIPRAP. INCLUDED IN ITEM #S156544

ALIGNMENT 500



- NOTES:**
- FOR NOTES AND LEGEND, SEE SHEET 11.
  - PROPOSED GRADING TO BE COMPLETED BY OTHERS.
  - DRAINAGE STRUCTURES AND RIPRAP SHALL BE INCLUDED AS ADDITIVE ALTERNATE NO. 1



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**EXTEND RUNWAY 2-20; CONSTRUCT TAXIWAY TURNAROUND**

AIP PROJECT NO. 3-17-0140-B42  
IDA PROJECT NO. LOT-3792

No.	Drawing Issue Description	Date	By

Date: APRIL 18, 2008

Sheet Title:

**PLAN AND PROFILE  
SEDIMENTATION BASIN  
STA. 557+12.16 THRU  
STA. 565+54.00**

07A0166

Project Number: SJM 03/14/08

Layout By: SJM 03/14/08

Designed By: RMH 03/20/08

Reviewed By: SJM

Drawn By: \_\_\_\_\_

Sheet No. **18**

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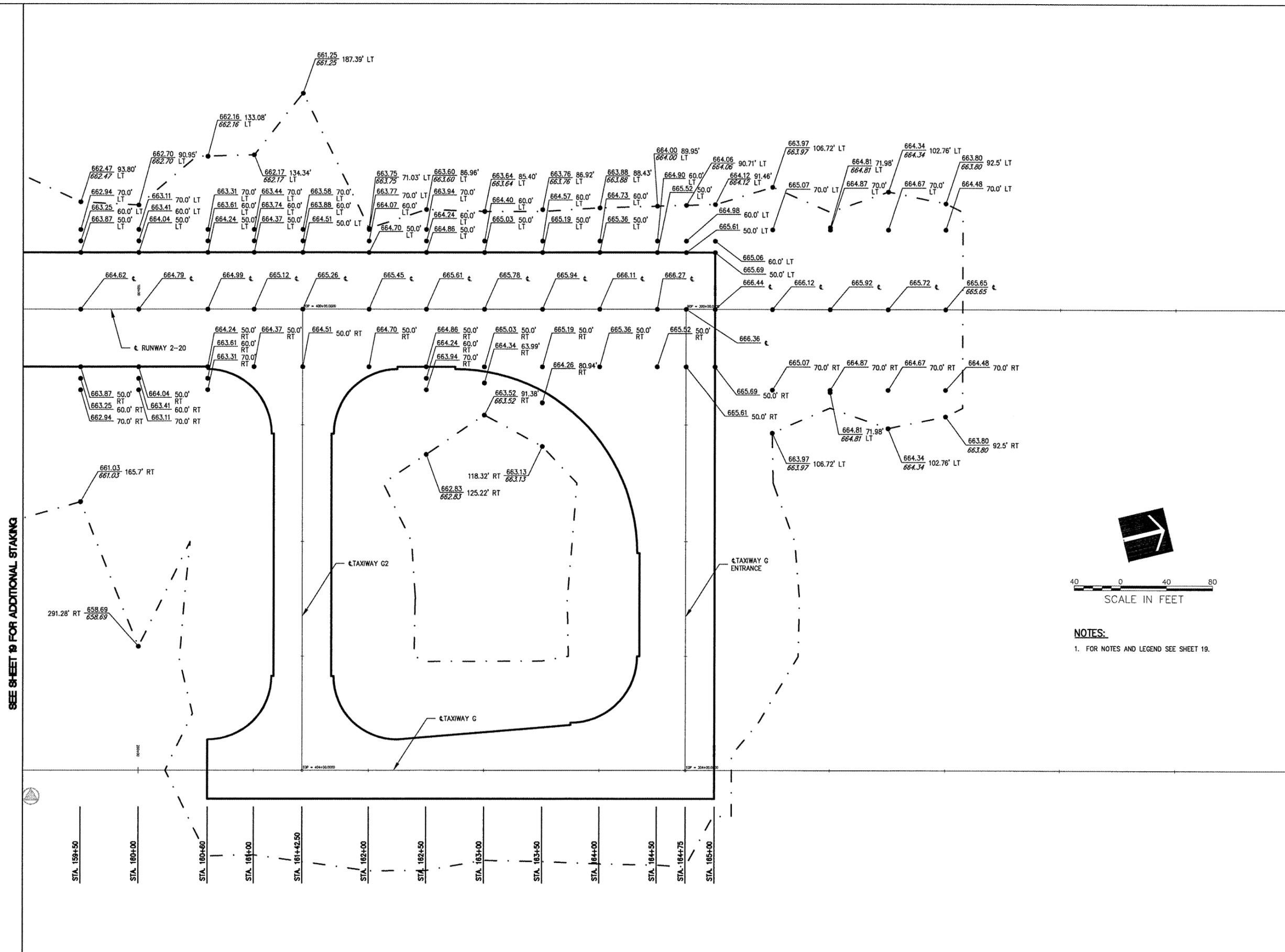


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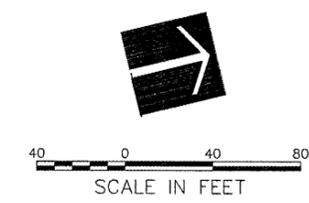
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EXTEND RUNWAY 2-20; CONSTRUCT  
TAXIWAY TURNAROUND

AIP PROJECT NO. 3-17-0140-B42  
IDA PROJECT NO. LOT-3792



SEE SHEET 19 FOR ADDITIONAL STAKING



NOTES:  
1. FOR NOTES AND LEGEND SEE SHEET 19.

No.	Drawing Issue Description	Date	By

Date  
APRIL 18, 2008  
Sheet Title

STAKING PLAN  
RUNWAY 2-20  
STA. 160+00 THRU  
STA. 167+00

07A0166  
Project Number  
LDH 04/01/08  
Layout By Date  
LDH 04/01/08  
Designed By Date  
RMH 03/20/08  
Reviewed By Date  
LDH  
Drawn By

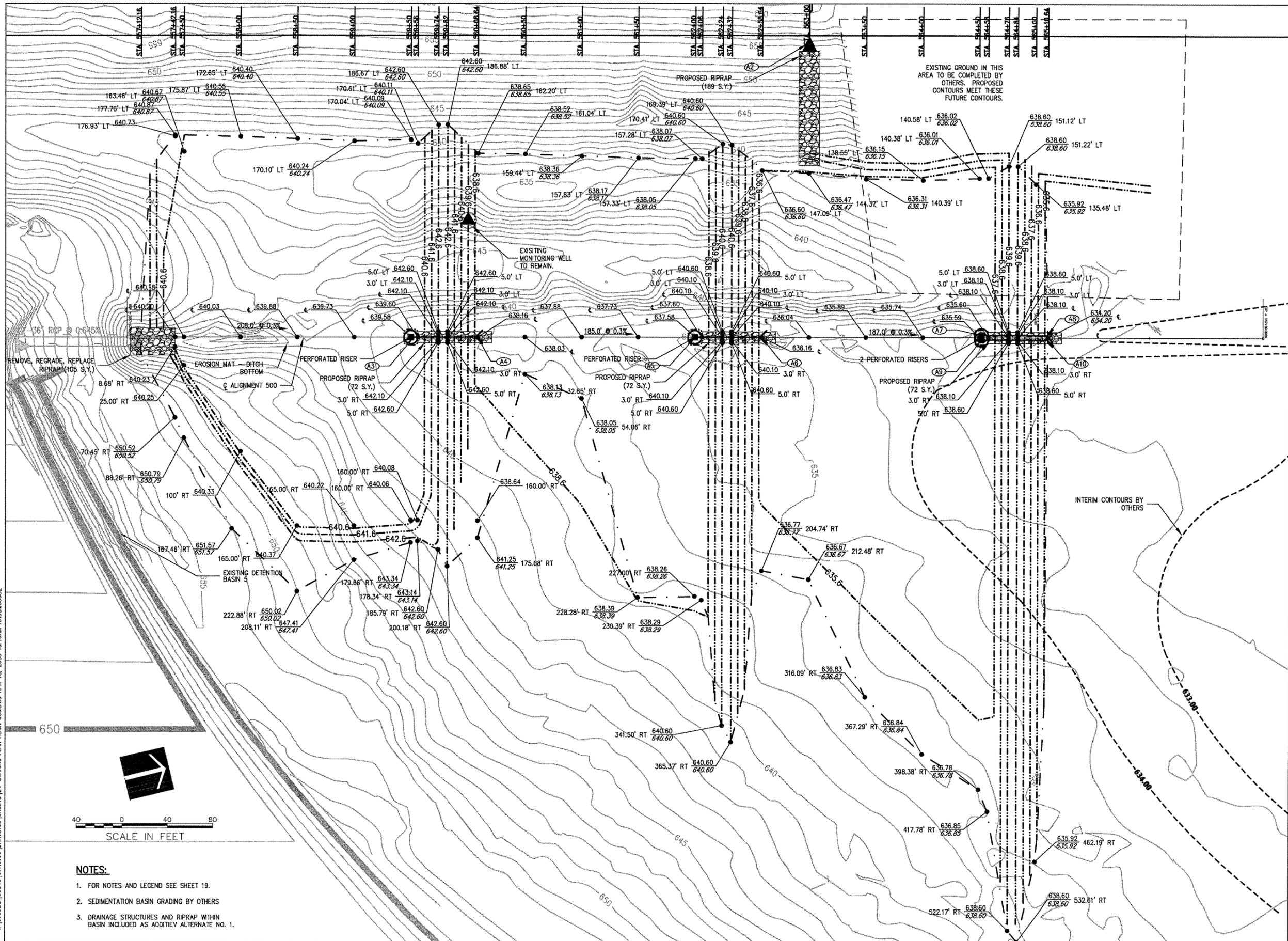
20

Sheet No.









- NOTES:**
1. FOR NOTES AND LEGEND SEE SHEET 19.
  2. SEDIMENTATION BASIN GRADING BY OTHERS
  3. DRAINAGE STRUCTURES AND RIPRAP WITHIN BASIN INCLUDED AS ADDITVE ALTERNATE NO. 1.

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EXTEND RUNWAY 2-20: CONSTRUCT TAXIWAY TURNAROUND

AIP PROJECT NO. 3-17-0140-B42  
IDA PROJECT NO. LOT-3792

No.	Drawing Issue Description	Date	By

Date

APRIL 18, 2008

Sheet Title

**STAKING PLAN  
SEDIMENTATION BASIN**

07A0166  
Project Number

SJM 03/20/08  
SJM Date

SJM 03/20/08  
SJM Date

RMH 03/20/08  
RMH Date

SJM Date

SJM Date

SJM Date

SJM Date

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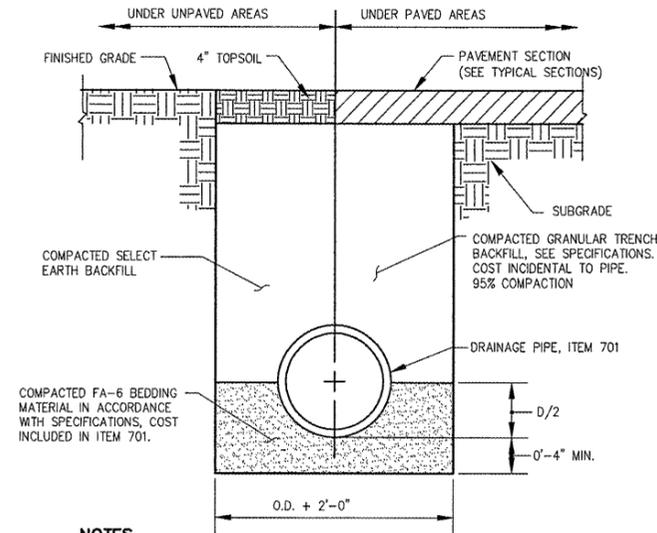


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EXTEND RUNWAY 2-20; CONSTRUCT TAXIWAY TURNAROUND

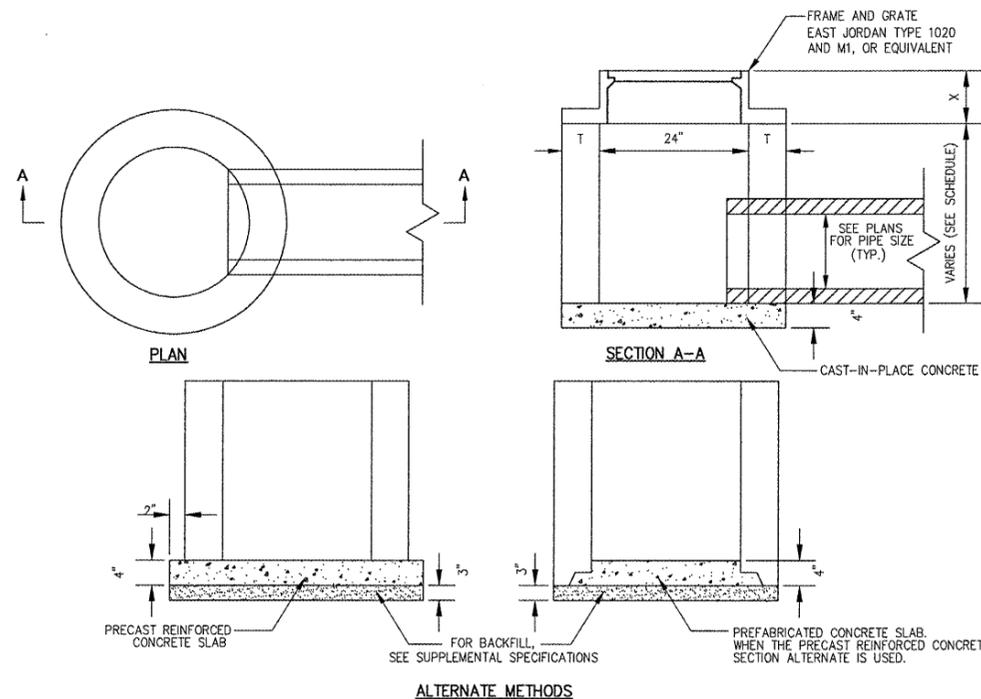
AIP PROJECT NO. 3-17-0140-B42  
IDA PROJECT NO. LOT-3792



**NOTES**

1. UNSUITABLE MATERIAL ENCOUNTERED DURING PLACEMENT OF BEDDING SHALL BE REMOVED AND REPLACED.
2. WITHIN 3 FEET OF PAVED AREA, GRANULAR BACKFILL IS TO BE USED INSTEAD OF EARTH BACKFILL.
3. AT CONTRACTOR'S OPTION IDOT CONTROLLED LOW STRENGTH MATERIAL WITH A HIGH EARLY STRENGTH, "FLASH FILL", MAY BE USED INSTEAD OF GRANULAR TRENCH BACKFILL UNDER PAVEMENTS.

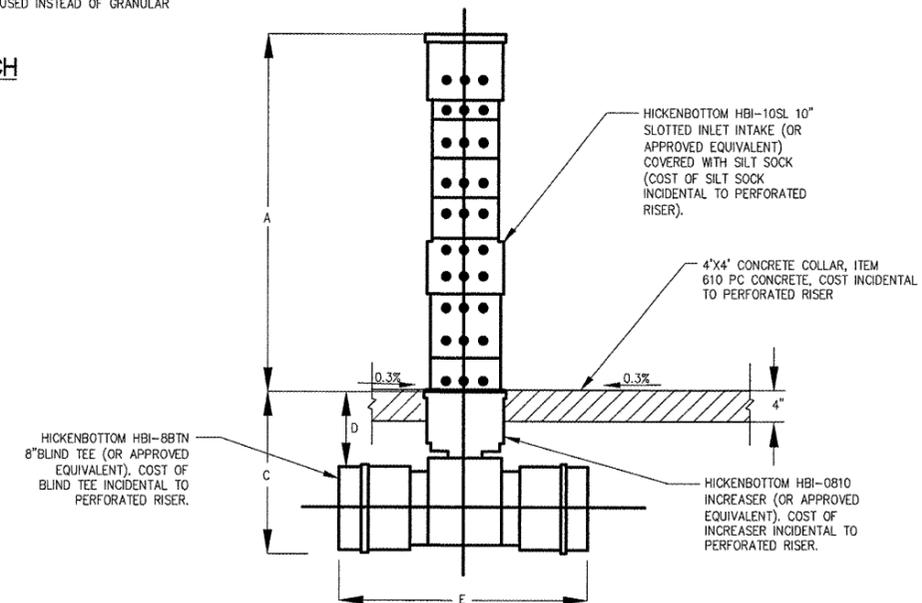
**PIPE TRENCH**



**NOTES**

1. SEE DRAINAGE AND UNDERDRAIN SCHEDULE FOR LOCATION, SIZE AND NUMBER OF PIPE CONNECTIONS.
2. INLETS TO BE PRECAST REINFORCED CONCRETE SECTIONS (T = 5").

**INLET TYPE A**  
(IDOT STANDARD 602301)



DIAMETER	5"	6"	8"	10"	12"
A	780 mm	780	850	850	1015 mm
1" HOLES	60	100	168	216	204
HOLES/ROW	6	10	12	18	12
B	780 mm	780	850	850	940 mm
C	380 mm	380	470	500	610 mm
D	195 mm	195	225	200	
E	540 mm	540	660	685	1015 mm

**PERFORATED RISER**

DETAILS SHOWN ARE NOT TO SCALE

No.	Drawing Issue Description	Date	By

Date

APRIL 18, 2008

Sheet Title

**STORM SEWER DETAILS**

07A0166

Project Number  
LDH 02/27/08  
Layout By Date  
SJM 03/07/08  
Designed By Date  
RMH 03/20/08  
Reviewed By Date  
LDH | SJM | ---  
Drawn By Sheet No.

27









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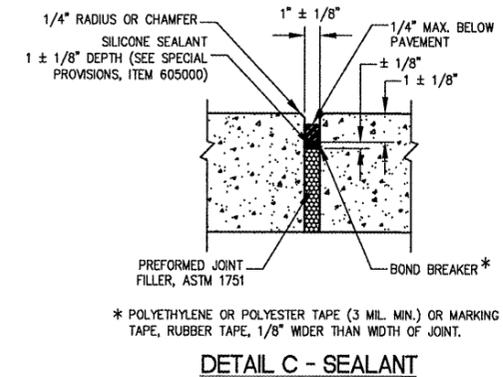
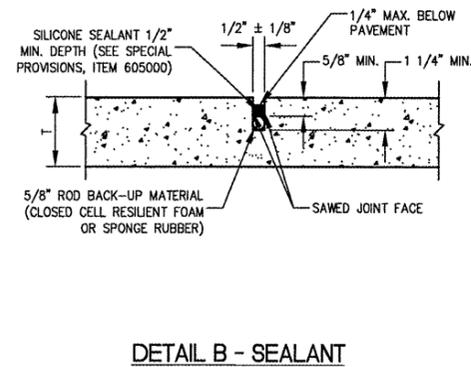
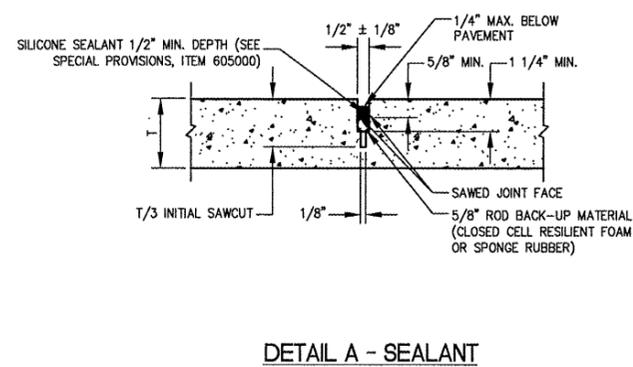
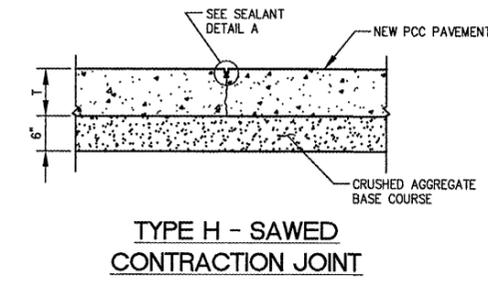
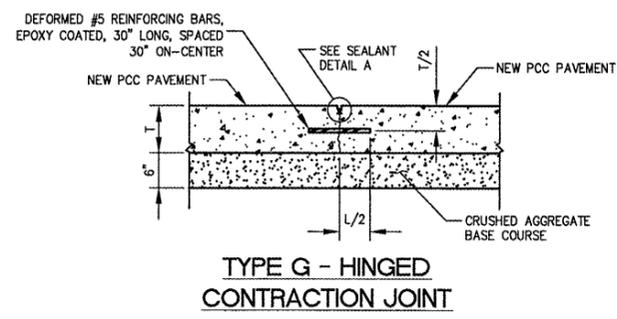
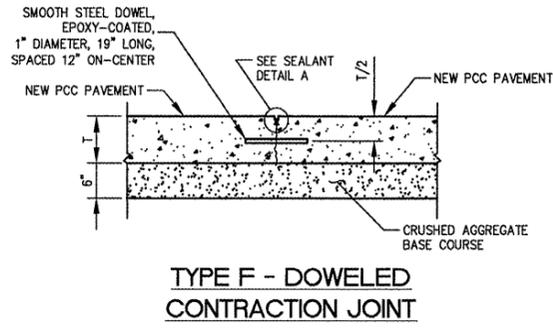
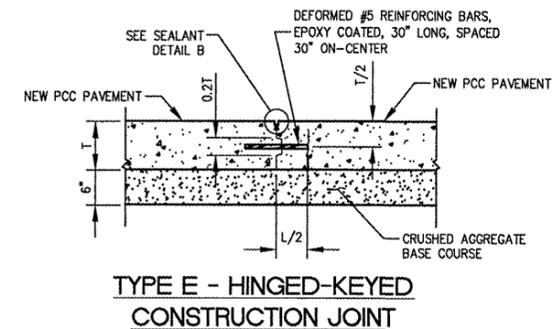
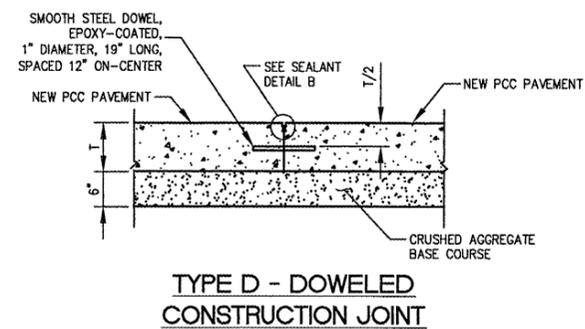
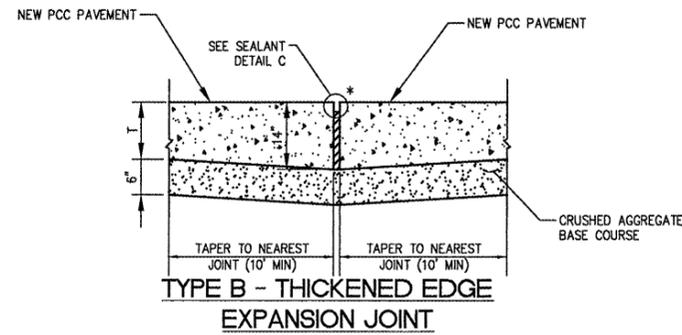


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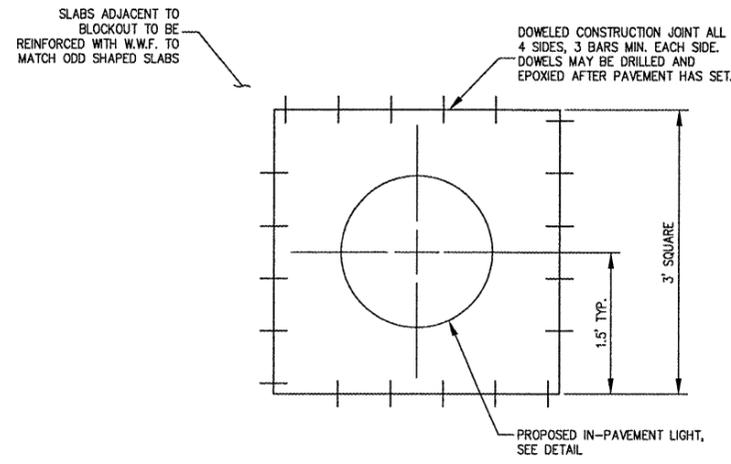
1 George Michas Drive  
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Fax: 815.838.9524

EXTEND RUNWAY 2-20; CONSTRUCT  
TAXIWAY TURNAROUND

AIP PROJECT NO. 3-17-0140-B42  
IDA PROJECT NO. LOT-3792



\* POLYETHYLENE OR POLYESTER TAPE (3 MIL. MIN.) OR MARKING TAPE, RUBBER TAPE, 1/8\"/>



IN-PAVEMENT LIGHT BLOCKOUT

DETAILS SHOWN ARE NOT TO SCALE

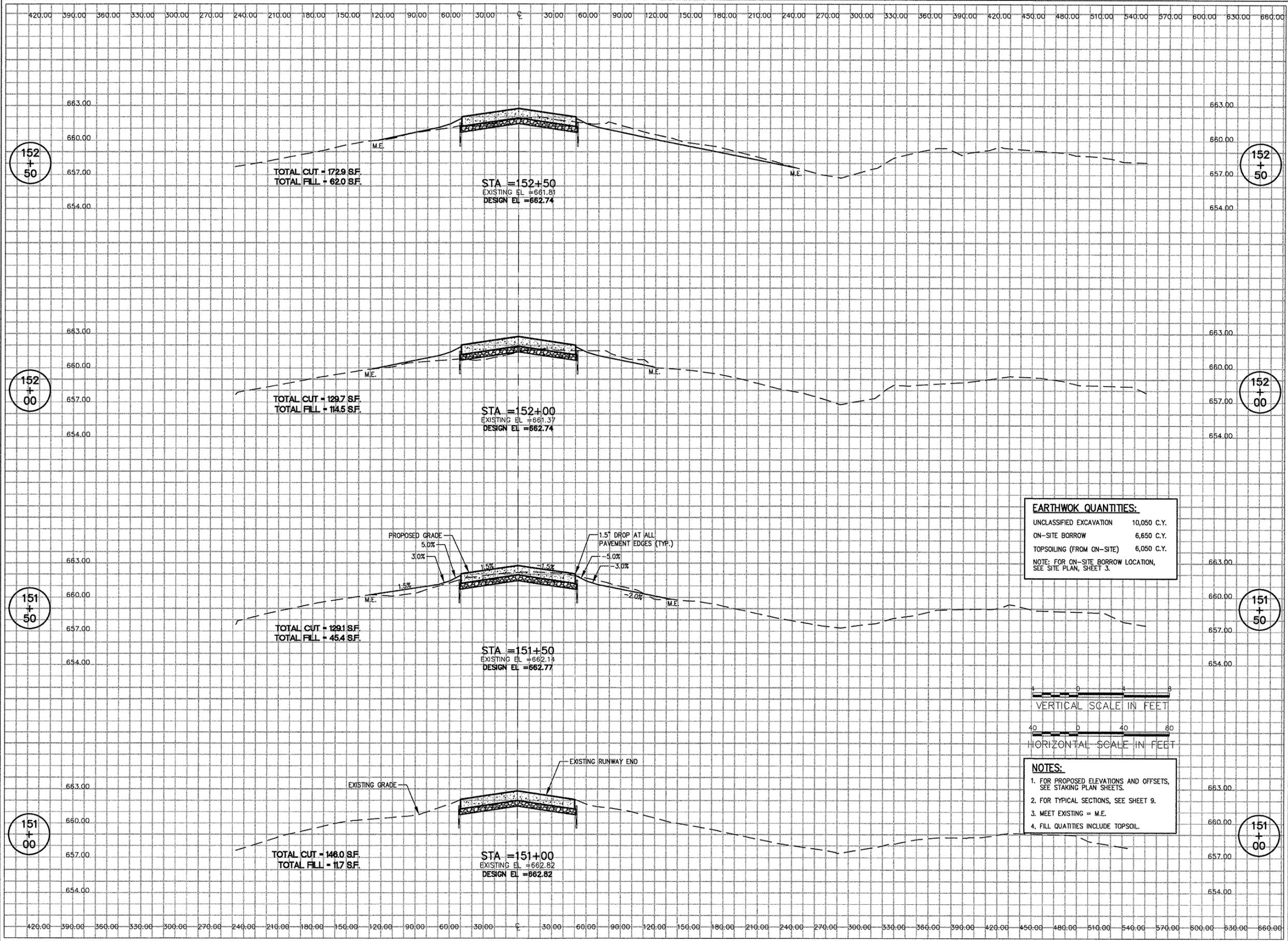
No.	Drawing Issue Description	Date	By

Date  
APRIL 18, 2008  
Sheet Title

P.C.C. PAVEMENT AND  
JOINTING DETAILS

07A0166  
Project Number  
LDH 02/21/08  
Layout By Date  
LDH 02/21/08  
Designed By Date  
RMH 03/20/08  
Reviewed By Date  
Drawn By Sheet No.

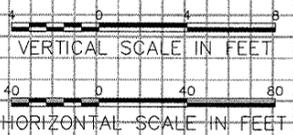
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**EARTHWORK QUANTITIES:**

UNCLASSIFIED EXCAVATION	10,050 C.Y.
ON-SITE BORROW	6,650 C.Y.
TOPSOILING (FROM ON-SITE)	6,050 C.Y.

NOTE: FOR ON-SITE BORROW LOCATION, SEE SITE PLAN, SHEET 3.



- NOTES:**
1. FOR PROPOSED ELEVATIONS AND OFFSETS, SEE STAKING PLAN SHEETS.
  2. FOR TYPICAL SECTIONS, SEE SHEET 9.
  3. MEET EXISTING = M.E.
  4. FILL QUANTITIES INCLUDE TOPSOIL.



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**EXTEND RUNWAY 2-20; CONSTRUCT TAXIWAY TURNAROUND**  
 AIP PROJECT NO. 3-17-0140-B42  
 IDA PROJECT NO. LOT-3792

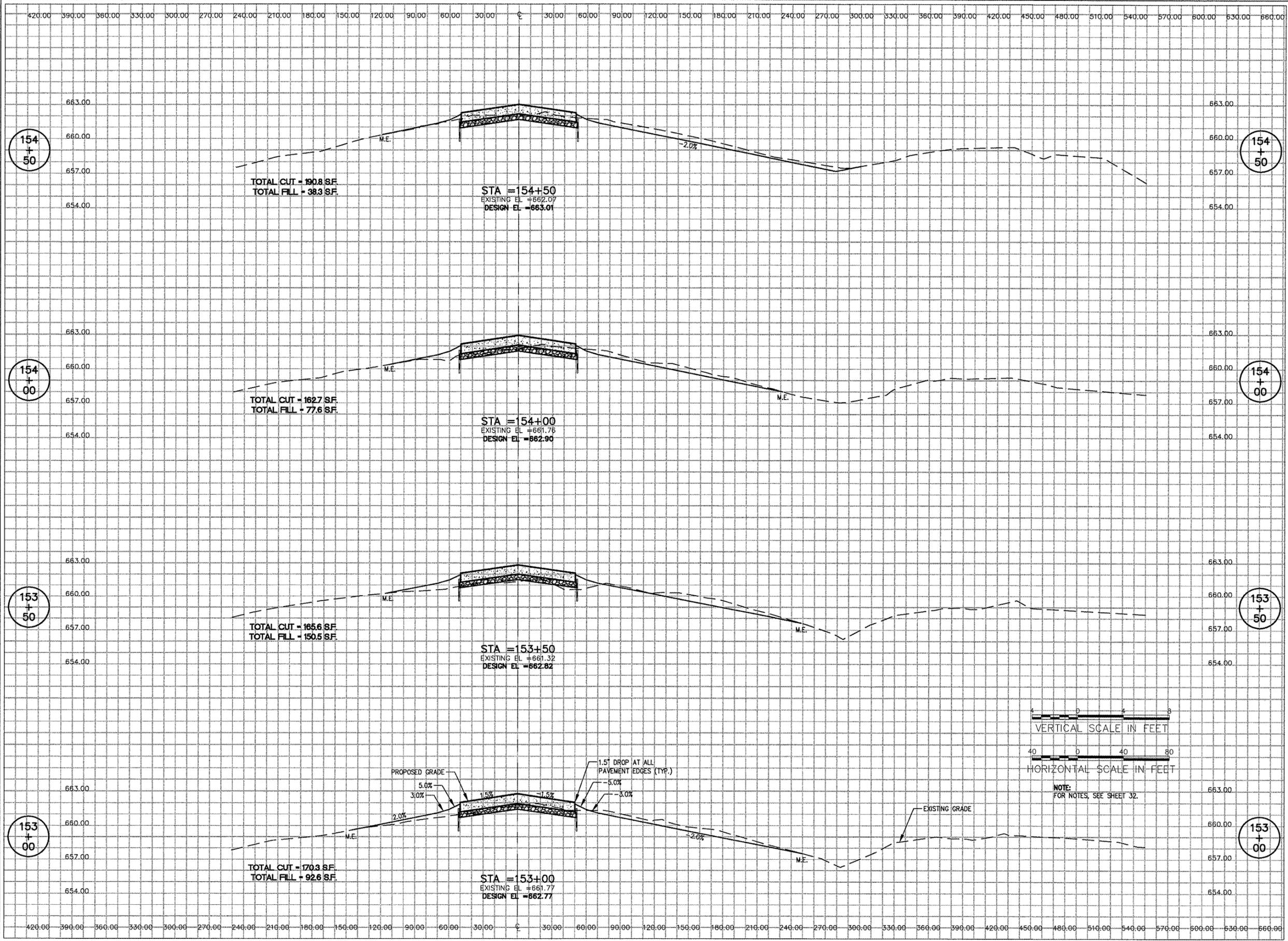
No.	Drawing Issue Description	Date	By

Date  
 APRIL 18, 2008  
 Sheet Title

**CROSS SECTIONS  
 RUNWAY 2-20  
 STA. 151+00 THRU  
 STA. 152+50**

07A0166  
 Project Number  
 LDH 03/12/08  
 Layout By Date  
 LDH 03/12/08  
 Designed By Date  
 RMH 03/20/08  
 Reviewed By Date  
 LDH ---  
 Drawn By Sheet No.

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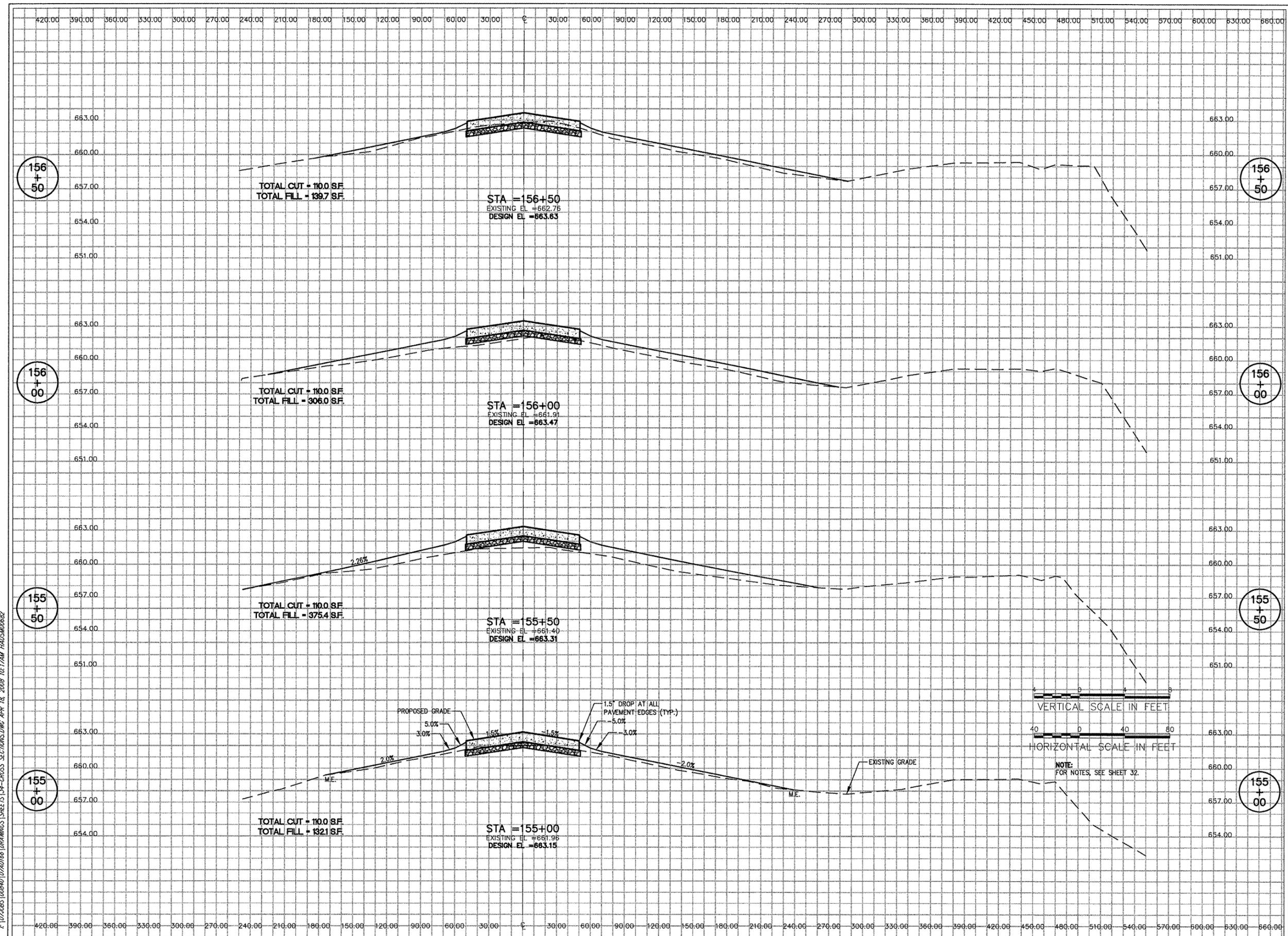
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**IDA PROJECT NO. LOT-3792**

No.	Drawing Issue Description	Date	By

Date: **APRIL 18, 2008**

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07A0166  
 Project Number  
 LDH 03/12/08  
 Layout By Date  
 LDH 03/12/08  
 Designed By Date  
 RMH 03/20/08  
 Reviewed By Date  
 LDH --- | ---  
 Drawn By Sheet No.



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AIP PROJECT NO. 3-17-0140-B42  
IDA PROJECT NO. LOT-3792

No.	Drawing Issue Description	Date	By

Date

APRIL 18, 2008

Sheet Title

**CROSS SECTIONS  
RUNWAY 2-20  
STA. 155+00 THRU  
STA. 156+50**

07A0166

Project Number

LDH 03/12/08

Layout By Date

LDH 03/12/08

Designed By Date

RMH 03/20/08

Reviewed By Date

LDH

Drawn By

Sheet No.

34



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TAXIWAY TURNAROUND

AIP PROJECT NO. 3-17-0140-B42  
IDA PROJECT NO. LOT-3792

No.	Drawing Issue Description	Date	By

Date

APRIL 18, 2008

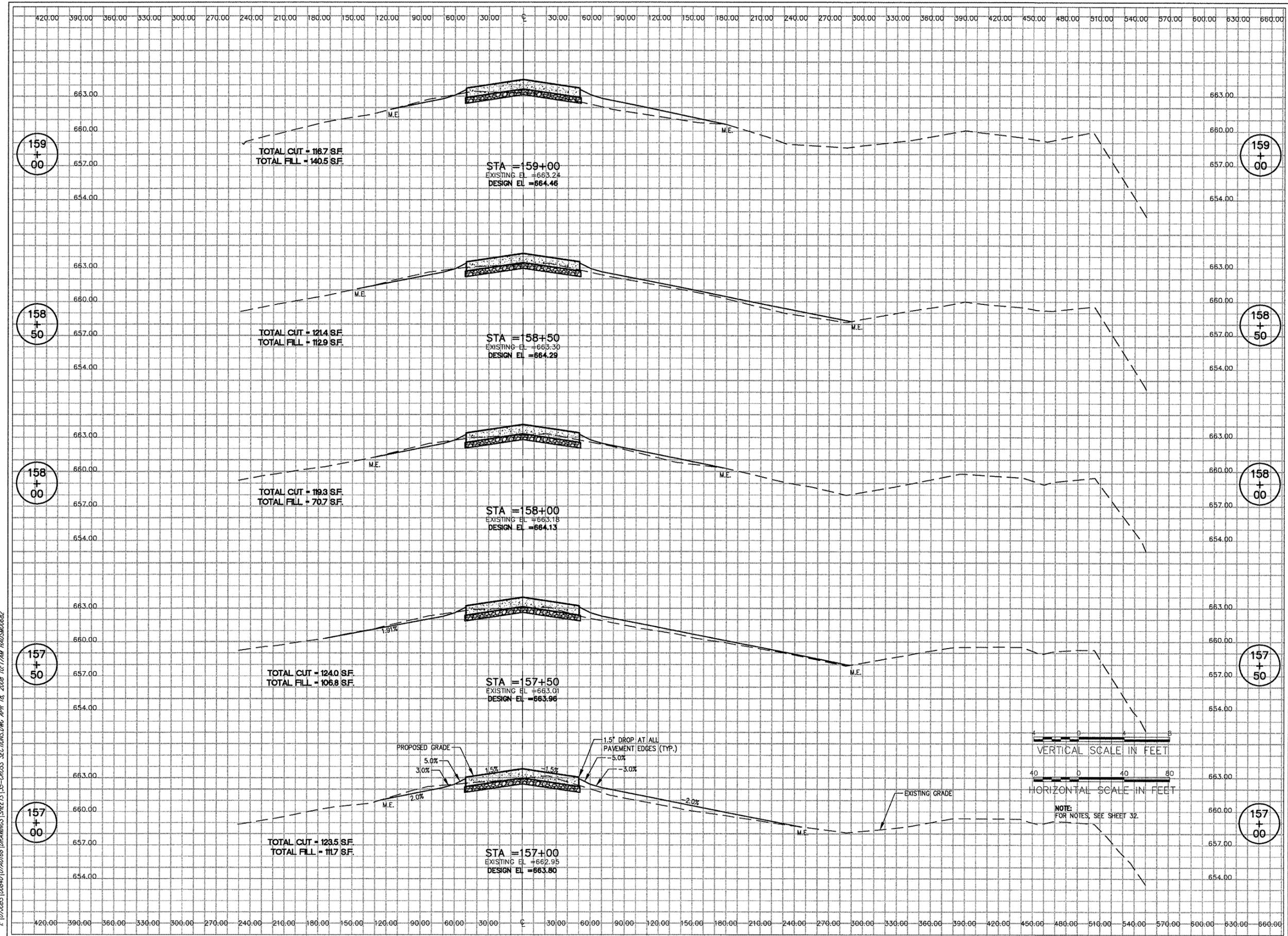
Sheet Title

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RUNWAY 2-20  
STA. 157+00 THRU  
STA. 159+00**

07A0166  
Project Number  
LDH 03/12/08  
Layout By Date  
LDH 03/12/08  
Designed By Date  
RMH 03/20/08  
Reviewed By Date  
LDH  
Drawn By

35

Sheet No.



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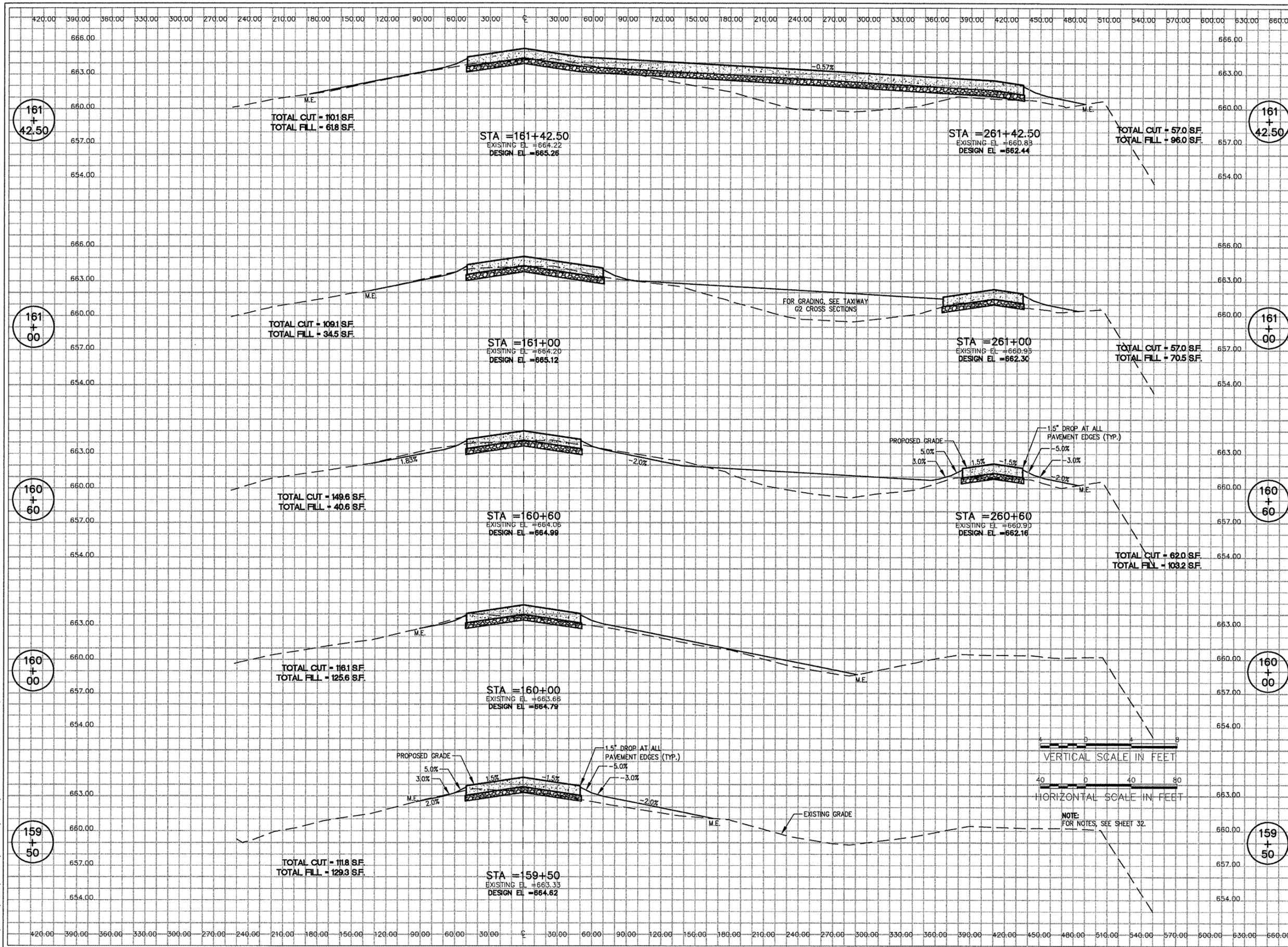


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EXTEND RUNWAY 2-20: CONSTRUCT  
TAXIWAY TURNAROUND

AIP PROJECT NO. 3-17-0140-B42  
IDA PROJECT NO. LOT-3792



No.	Drawing Issue Description	Date	By

Date  
APRIL 18, 2008

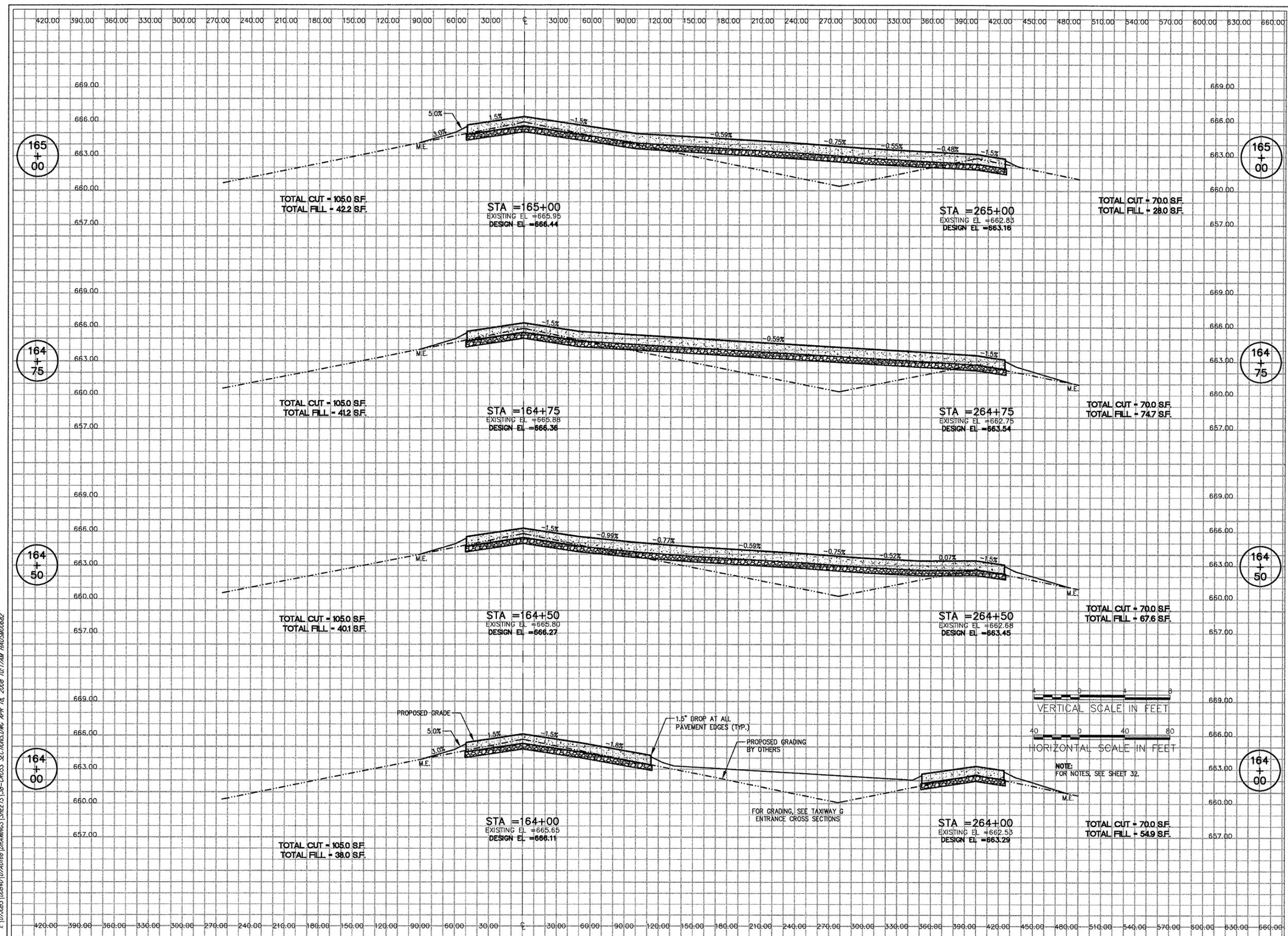
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CROSS SECTIONS  
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STA. 159+50 THRU  
STA. 161+42.50

07A0166  
Project Number  
LDH 03/12/08  
Layout By Date  
LDH 03/12/08  
Designed By Date  
RMH 03/20/08  
Reviewed By Date  
LDH  
Drawn By

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 TAXIWAY TURNAROUND

AIP PROJECT NO. 3-17-0140-B42  
 IDA PROJECT NO. LOT-3792

No.	Drawing Issue Description	Date	By

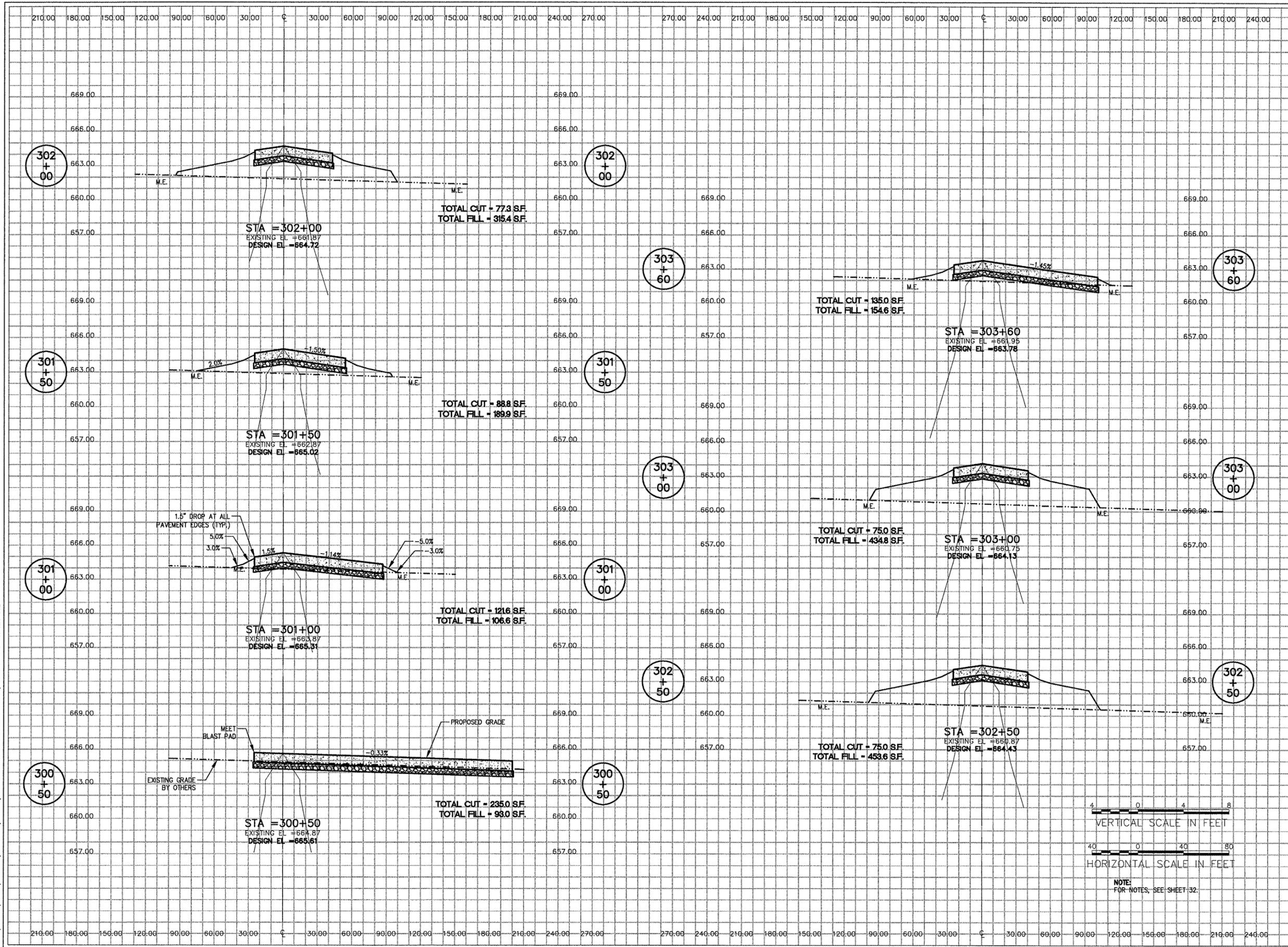
Date: APRIL 18, 2008

Sheet Title:  
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 STA. 164+00 THRU  
 STA. 165+50**

07A0166  
 Project Number  
 LDH 03/12/08  
 Layout By Date  
 LDH 03/12/08  
 Designed By Date  
 RMH 03/20/08  
 Reviewed By Date  
 LDH ---  
 Drawn By Sheet No.



4 107.0051 100841 07A0166 DRAWINGS SHEETS 40-CROSS SECTIONS 300+50 THRU 303+60 APR 18, 2008 10:27AM HANSON0062



NOTE:  
FOR NOTES, SEE SHEET 32.

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 TAXIWAY TURNAROUND

AIP PROJECT NO. 3-17-0140-B42  
 IDA PROJECT NO. LOT-3792

No.	Drawing Issue Description	Date	By

Date  
 APRIL 18, 2008

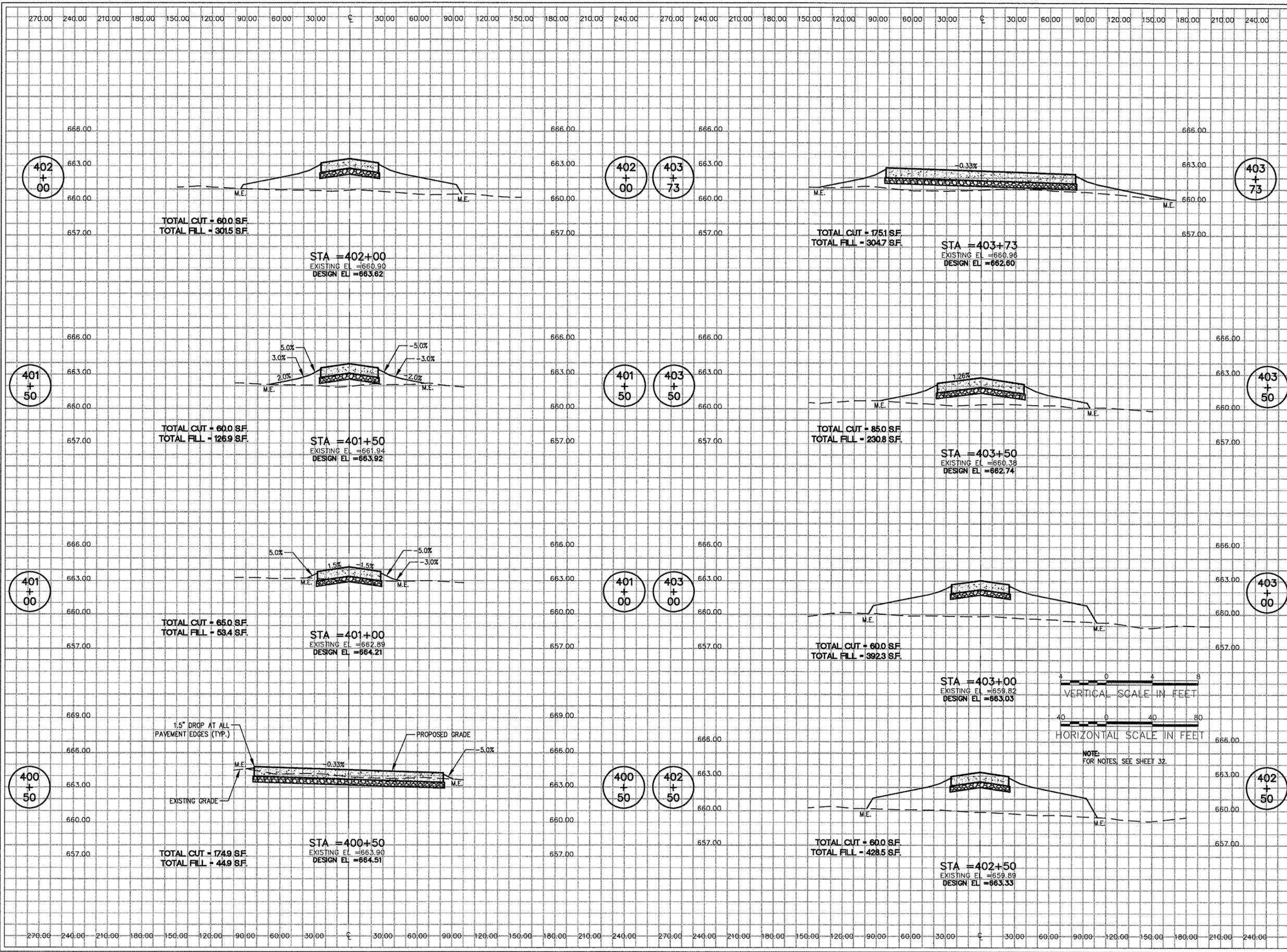
Sheet Title

**CROSS SECTIONS  
 TAXIWAY G ENTRANCE  
 STA. 300+50 THRU  
 STA. 303+60**

07A0166  
 Project Number  
 LDH 03/12/08  
 Layout By Date  
 LDH 03/12/08  
 Designed By Date  
 RMH 03/20/08  
 Reviewed By Date  
 LDH ---  
 Drawn By Sheet No.

40

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**EXTEND RUNWAY 2-20; CONSTRUCT TAXIWAY TURNAROUND**

AIP PROJECT NO. 3-17-0140-B42  
IDA PROJECT NO. LOT-3792

No.	Drawing Issue Description	Date	By

Date

APRIL 18, 2008

Sheet Title

**CROSS SECTIONS TAXIWAY G2 STA. 400+50 THRU STA. 403+73**

07A0166  
Project Number

LDH 03/13/08  
LDH 03/13/08  
RMH 03/20/08  
LDH

Date  
Date  
Date  
Date

Drawn By

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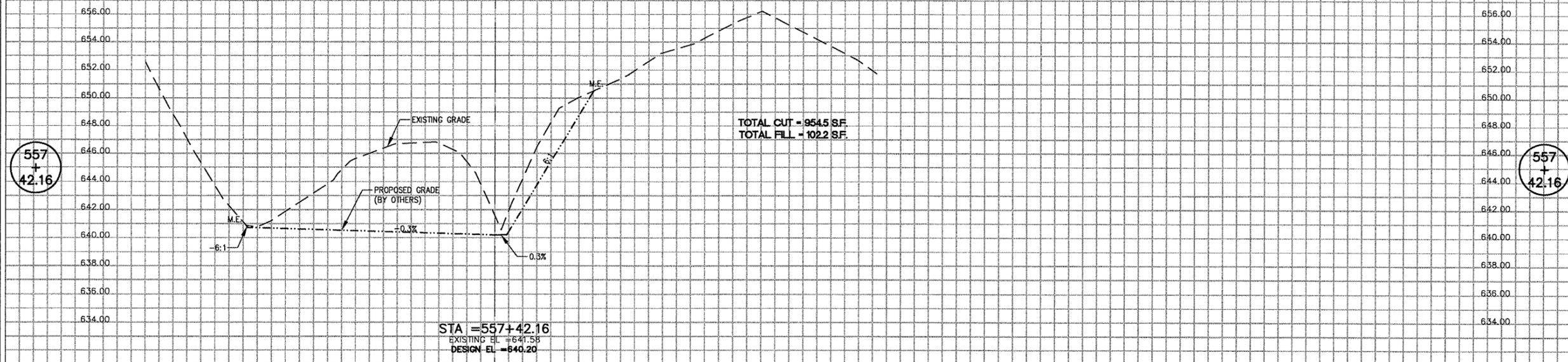


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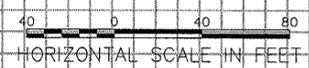
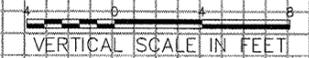
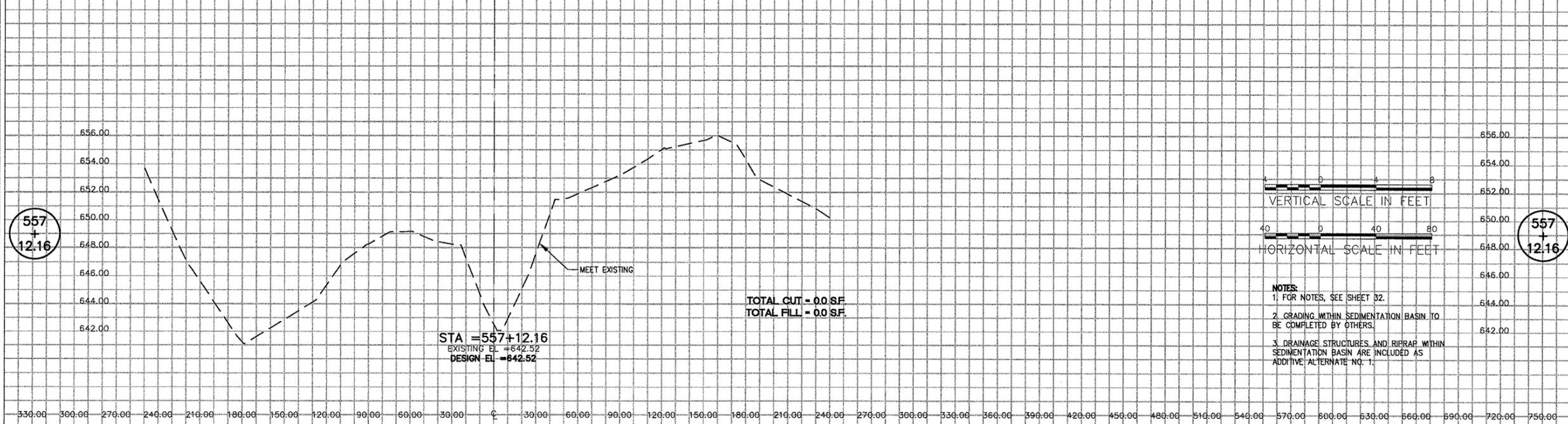
1 George Michas Drive  
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EXTEND RUNWAY 2-20; CONSTRUCT  
TAXIWAY TURNAROUND

AIP PROJECT NO. 3-17-0140-B42  
IDA PROJECT NO. LOT-3792



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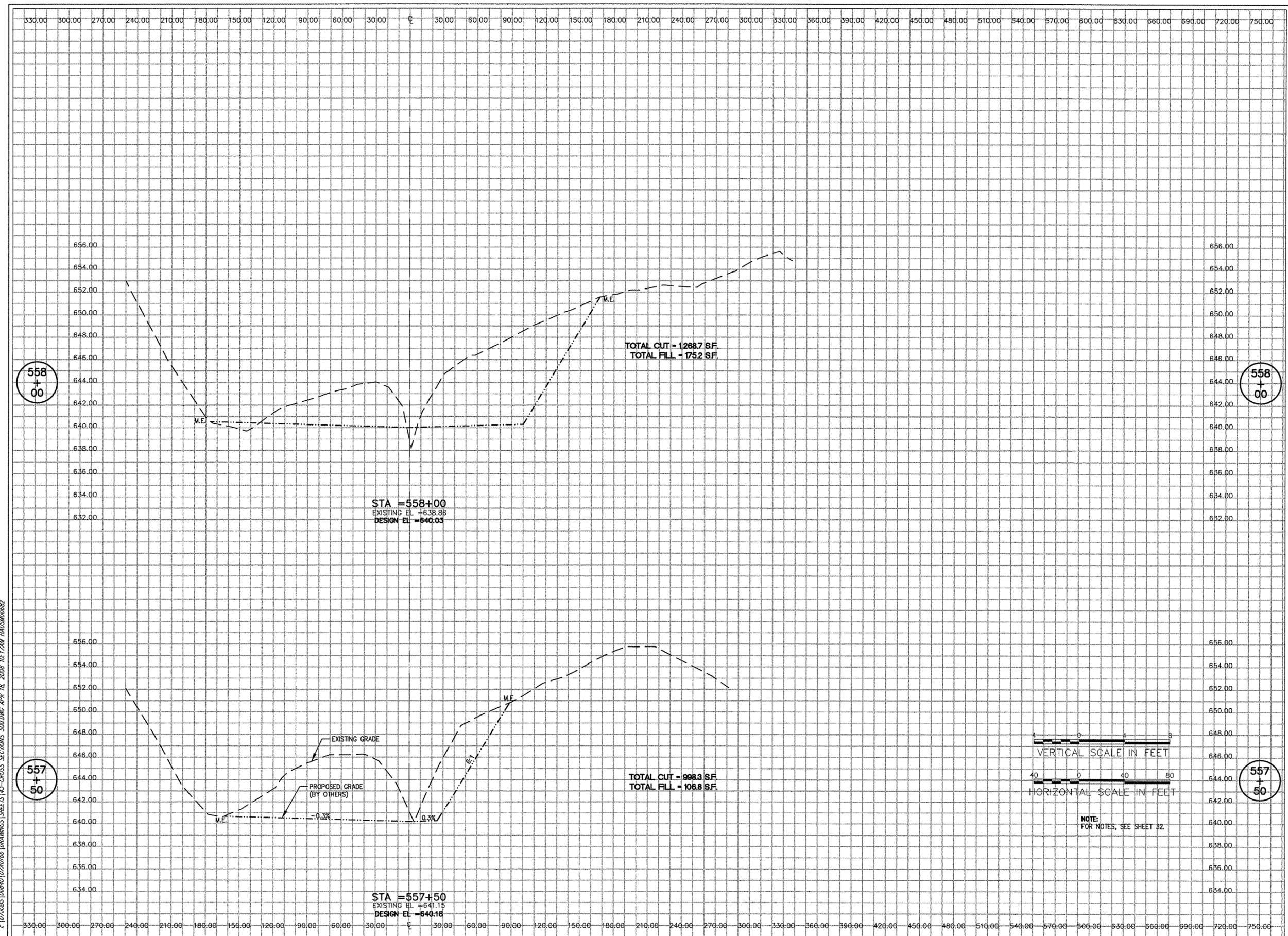
- NOTES:  
1. FOR NOTES, SEE SHEET B2.  
2. GRADING WITHIN SEDIMENTATION BASIN TO BE COMPLETED BY OTHERS.  
3. DRAINAGE STRUCTURES AND RIPRAP WITHIN SEDIMENTATION BASIN ARE INCLUDED AS ADDITIVE ALTERNATE NO. 1.

No.	Drawing Issue Description	Date	By

Date  
APRIL 18, 2008

Sheet Title  
**CROSS SECTIONS  
SEDIMENTATION BASIN  
STA. 557+12.16 THRU  
STA. 557+42.16**

07A0166  
Project Number  
SJM 03/14/08  
Layout By Date  
SJM 03/14/08  
Designed By Date  
RMH 03/20/08  
Reviewed By Date  
SJM  
Drawn By Sheet No.



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 TAXIWAY TURNAROUND

AIP PROJECT NO. 3-17-0140-B42  
 IDA PROJECT NO. LOT-3792

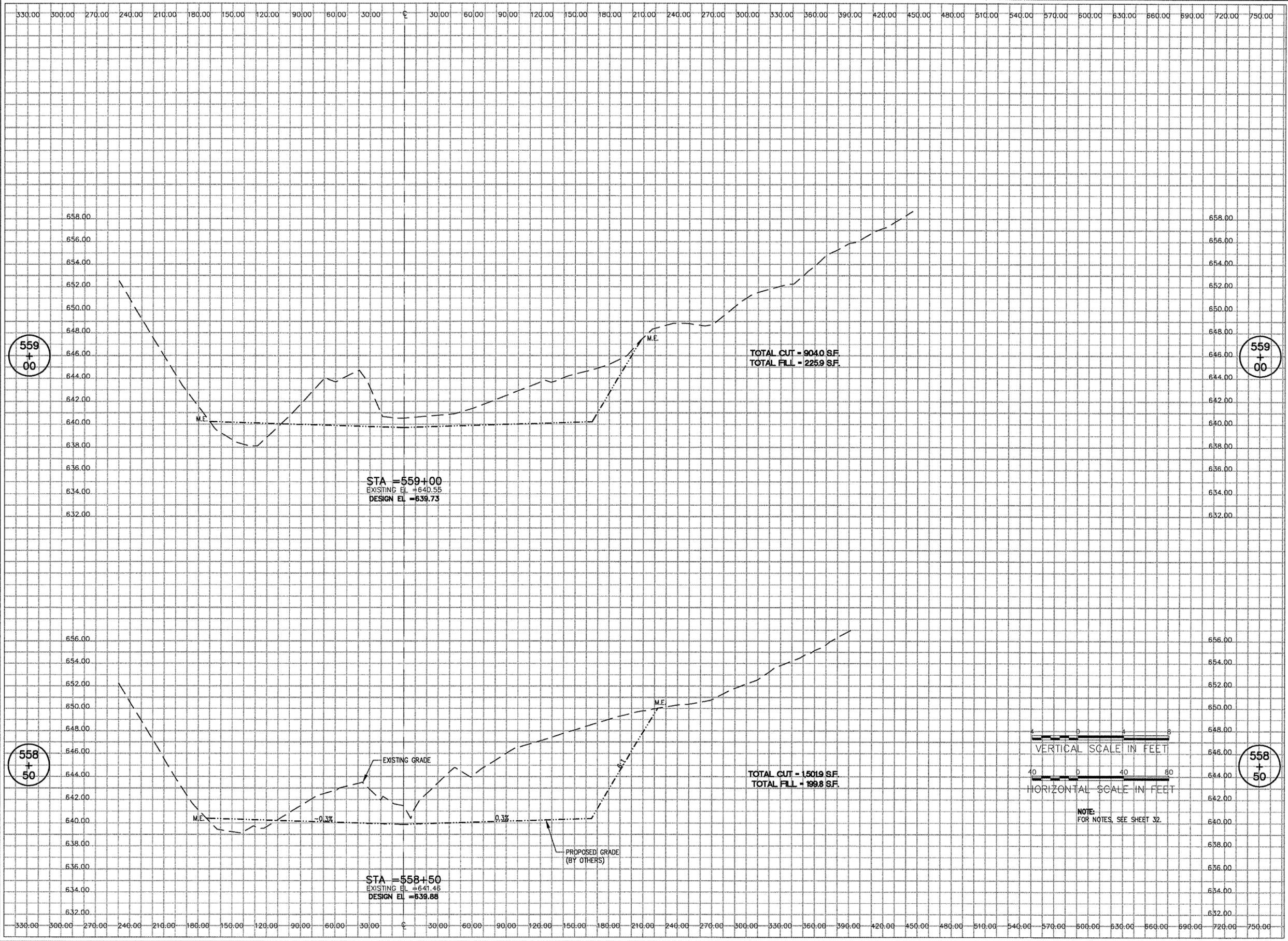
No.	Drawing Issue Description	Date	By

Date  
 APRIL 18, 2008

Sheet Title  
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 SEDIMENTATION BASIN  
 STA. 557+50 THRU  
 STA. 558+00**

07A0166  
 Project Number  
 SJM 03/14/08  
 Layout By Date  
 SJM 03/14/08  
 Designed By Date  
 RMH 03/20/08  
 Reviewed By Date  
 Drawn By Sheet No.

43



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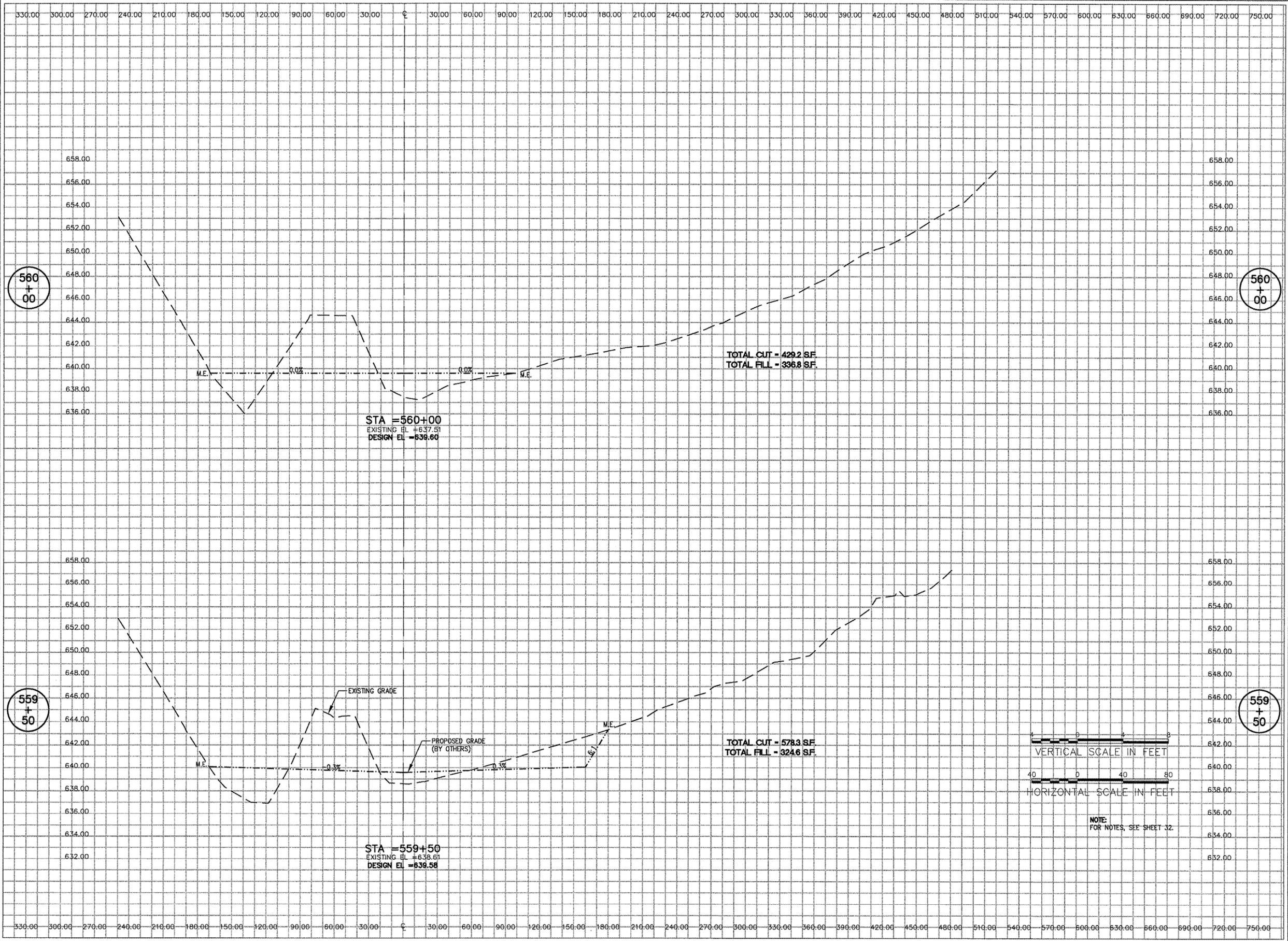
**EXTEND RUNWAY 2-20; CONSTRUCT TAXIWAY TURNAROUND**  
 AIP PROJECT NO. 3-17-0140-B42  
 IDA PROJECT NO. LOT-3792

No.	Drawing Issue Description	Date	By

Date  
 APRIL 18, 2008

Sheet Title  
**CROSS SECTIONS  
 SEDIMENTATION BASIN  
 STA. 558+50 THRU  
 STA. 559+00**

07A0166  
 Project Number  
 SJM 03/14/08  
 Layout By Date  
 SJM 03/14/08  
 Designed By Date  
 RMH 03/20/08  
 Reviewed By Date  
 Drawn By Sheet No.



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 TAXIWAY TURNAROUND

AIP PROJECT NO. 3-17-0140-B42  
 IDA PROJECT NO. LOT-3792

No.	Drawing Issue Description	Date	By

Date

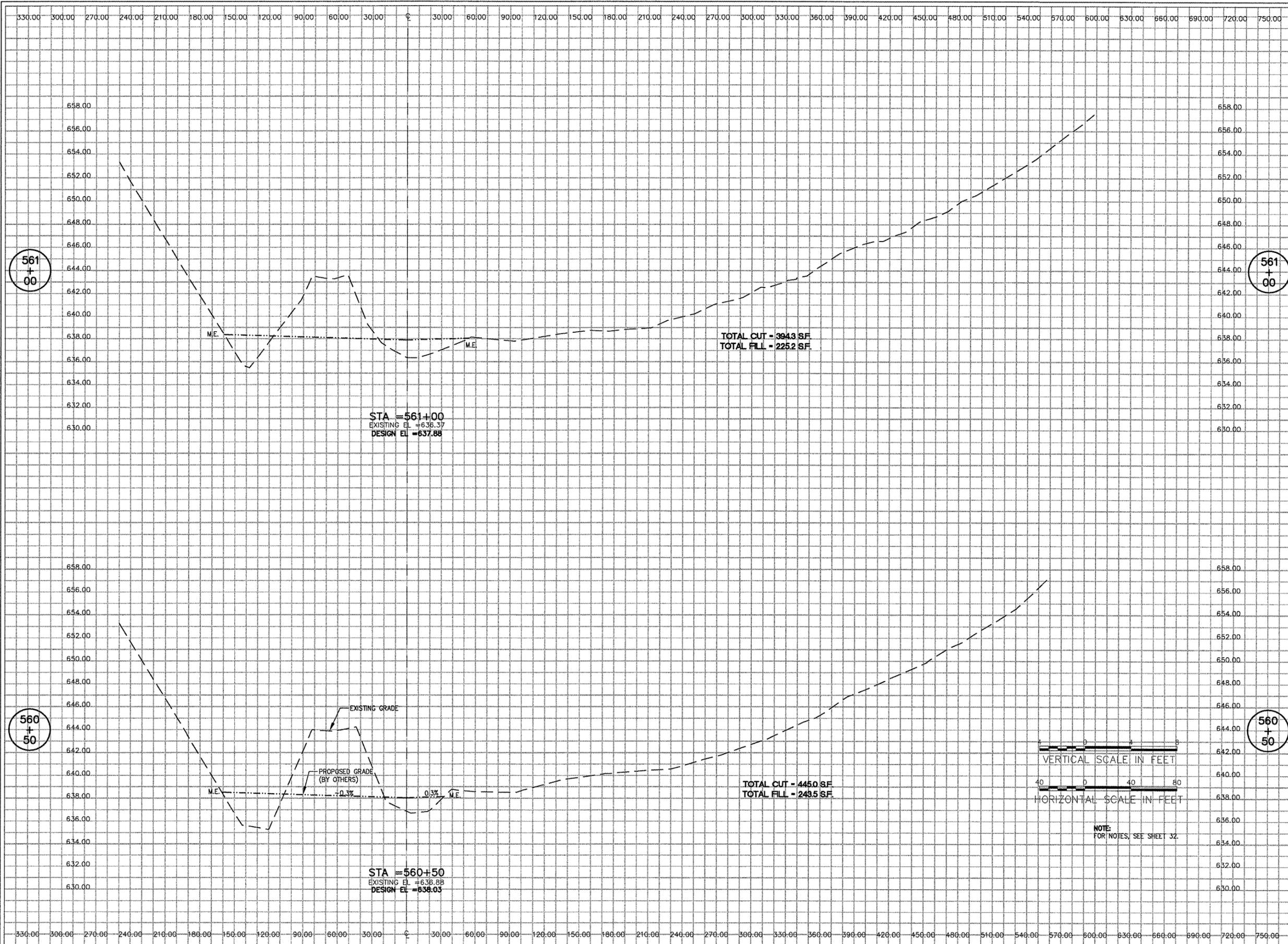
APRIL 18, 2008

Sheet Title

**CROSS SECTIONS  
 SEDIMENTATION BASIN  
 STA. 559+50 THRU  
 STA. 560+00**

07A0166  
 Project Number  
 SJM 03/14/08  
 Layout By Date  
 SJM 03/14/08  
 Designed By Date  
 RMH 03/20/08  
 Reviewed By Date  
 Drawn By Sheet No.

45



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EXTEND RUNWAY 2-20: CONSTRUCT  
TAXIWAY TURNAROUND

AIP PROJECT NO. 3-17-0140-B42  
IDA PROJECT NO. LOT-3792

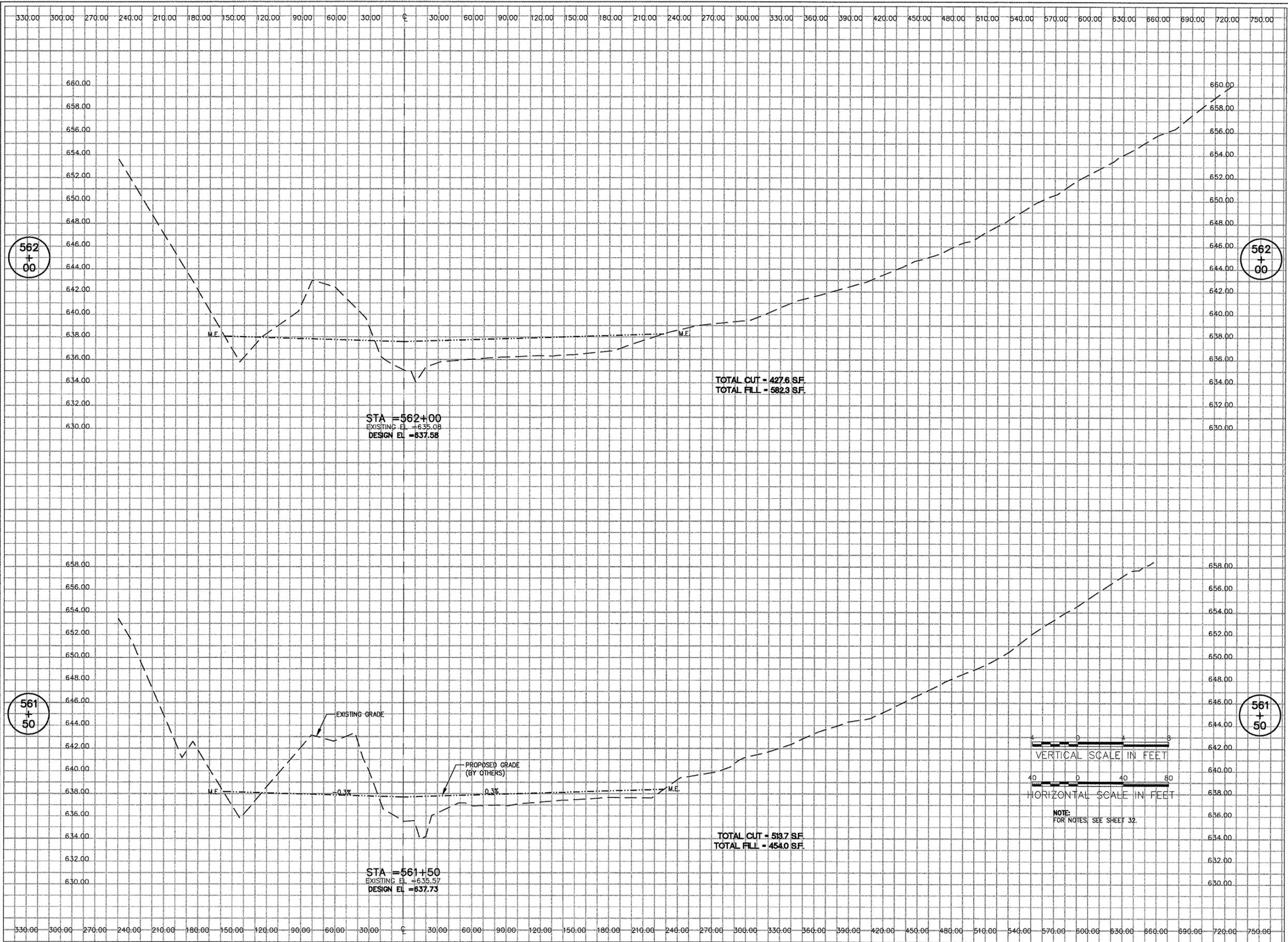
No.	Drawing Issue Description	Date	By

Date  
APRIL 18, 2008

Sheet Title  
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SEDIMENTATION BASIN  
STA. 560+50 THRU  
STA. 561+00**

07A0166  
Project Number  
SJM 03/14/08  
Layout By Date  
SJM 03/14/08  
Designed By Date  
RMH 03/20/08  
Reviewed By Date  
SJM  
Drawn By Sheet No.

46



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 Registration No. 184-001084

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**Chicago-Romeoville Airport**

**JOLIET REGIONAL PORT DISTRICT**

1 George Michas Drive  
 Romeoville, Illinois 60446  
 Telephone: 815.838.9497  
 Fax: 815.838.9524

**EXTEND RUNWAY 2-20; CONSTRUCT TAXIWAY TURNAROUND**

**AIP PROJECT NO. 3-17-0140-B42**  
**IDA PROJECT NO. LOT-3792**

No.	Drawing Issue Description	Date	By

Date  
 APRIL 18, 2008

Sheet Title  
**CROSS SECTIONS  
 SEDIMENTATION BASIN  
 STA. 561+50 THRU  
 STA. 562+00**

07A0166  
 Project Number

SJM 03/14/08  
 Layout By Date

SJM 03/14/08  
 Designed By Date

RMH 03/20/08  
 Reviewed By Date

SJM  
 Drawn By

Sheet No.



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EXTEND RUNWAY 2-20: CONSTRUCT  
TAXIWAY TURNAROUND

AIP PROJECT NO. 3-17-0140-B42  
IDA PROJECT NO. LOT-3792

No.	Drawing Issue Description	Date	By

Date

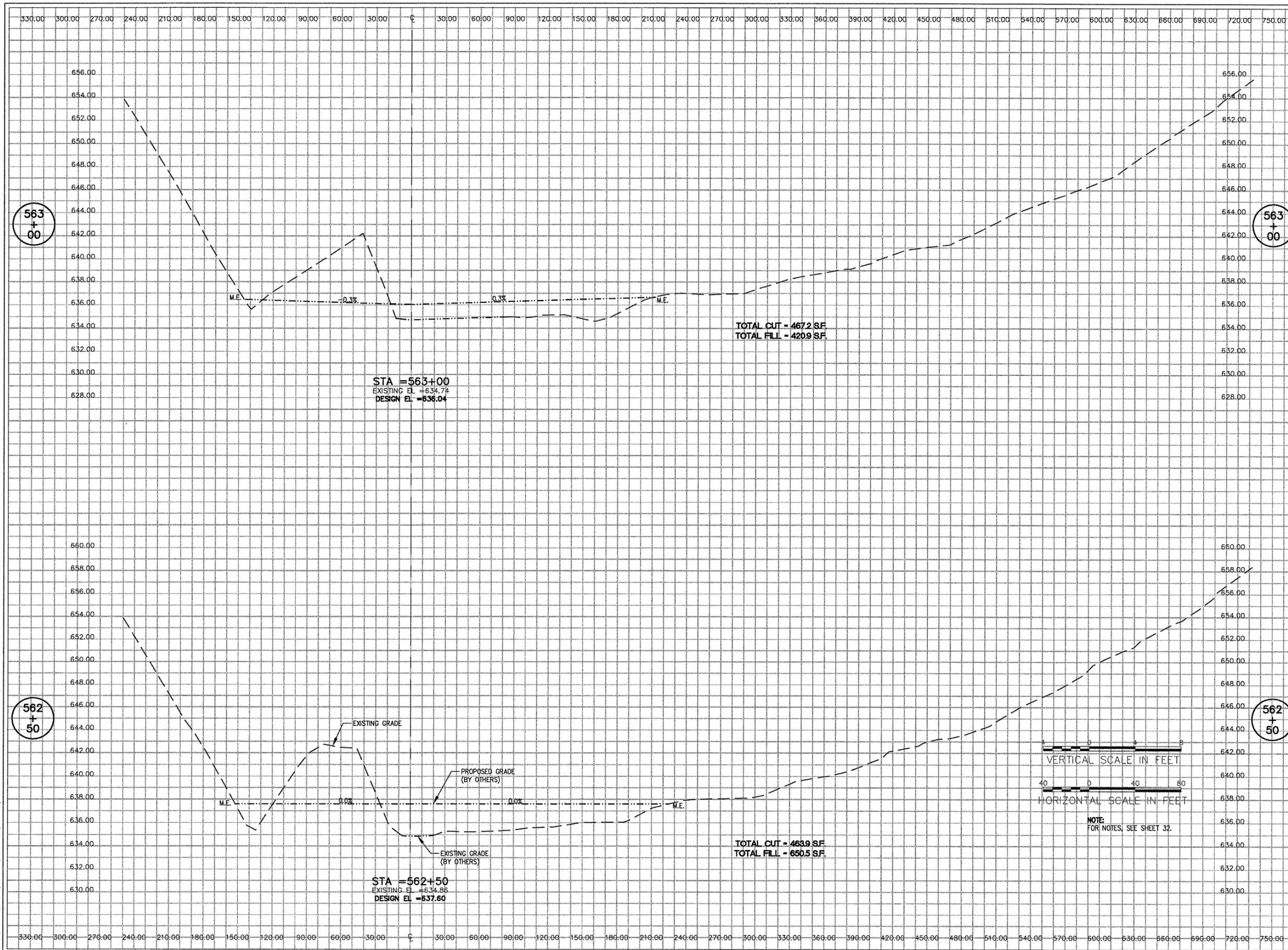
APRIL 18, 2008

Sheet Title

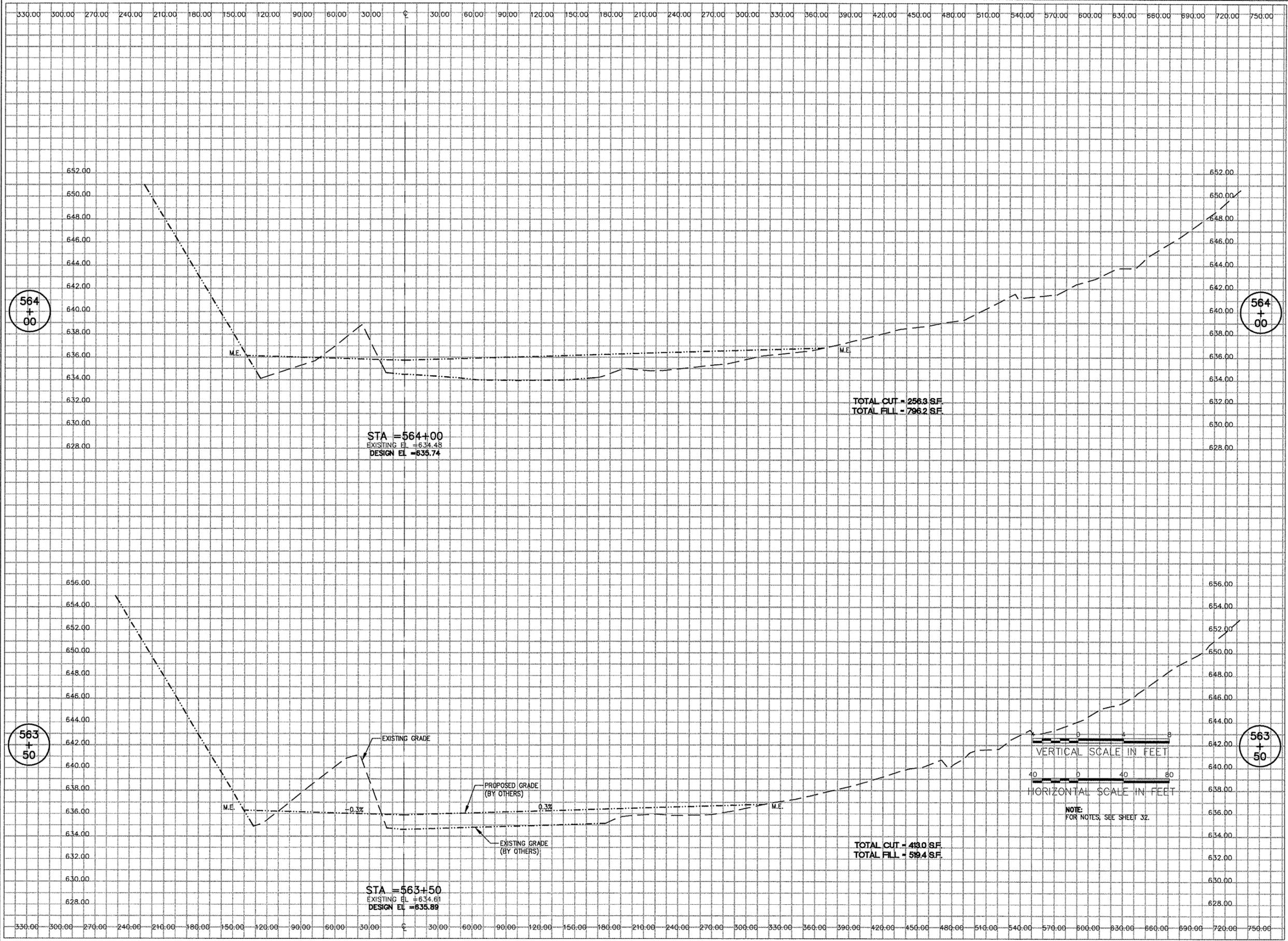
**CROSS SECTIONS  
SEDIMENTATION BASIN  
STA. 562+50 THRU  
STA. 563+00**

07A0166  
Project Number  
SJM 03/14/08  
Layout By Date  
SJM 03/14/08  
Designed By Date  
RMH 03/20/08  
Reviewed By Date  
SJM |---|---  
Drawn By Sheet No.

48



L:\LOT\005\10840\07A0166\DRAWINGS\07A0166-18-CROSS SECTIONS 500.DWG, APR 18, 2008 10:18AM HAUSKINDRZ



F:\07A0166\07A0166\DRAWINGS\149-CROSS SECTIONS 500.DWG APR 18, 2008 10:18AM HANSON0602

LE039



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EXTEND RUNWAY 2-20; CONSTRUCT  
 TAXIWAY TURNAROUND

AIP PROJECT NO. 3-17-0140-B42  
 IDA PROJECT NO. LOT-3792

No.	Drawing Issue Description	Date	By

Date

APRIL 18, 2008

Sheet Title

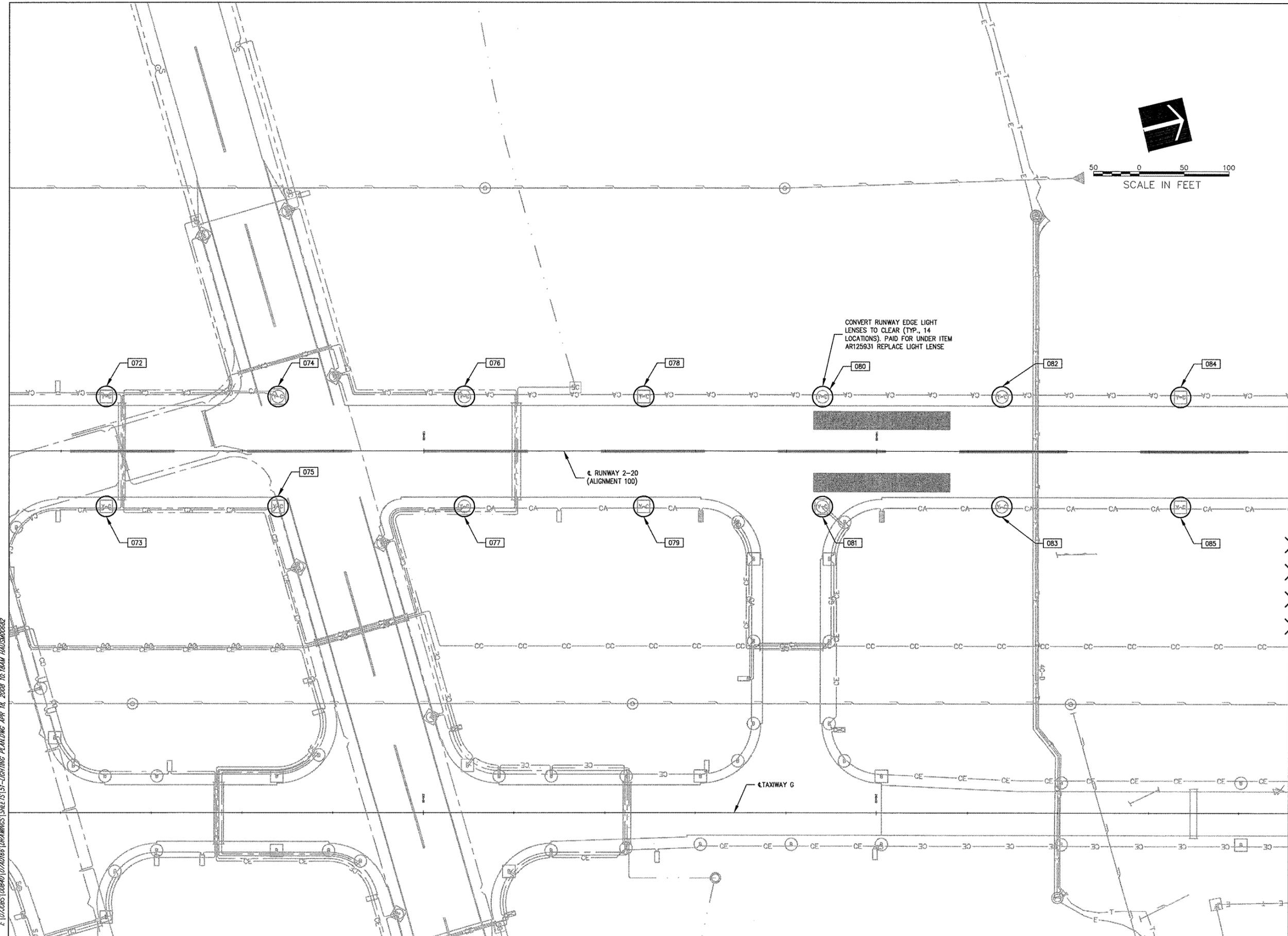
**CROSS SECTIONS  
 SEDIMENTATION BASIN  
 STA. 563+50 THRU  
 STA. 564+00**

07A0166

Project Number  
 SJM 03/14/08  
 Layout By Date  
 SJM 03/14/08  
 Designed By Date  
 RMH 03/20/08  
 Reviewed By Date  
 SJM --- | ---  
 Drawn By Sheet No.

49





P: 1022085 (0804) 07A0166 (07A0166) DRAWINGS SHEETS 51 - LIGHTING PLAN APR 18, 2008 10:18AM HALSH00822

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EXTEND RUNWAY 2-20; CONSTRUCT TAXIWAY TURNAROUND

AIP PROJECT NO. 3-17-0140-B42  
IDA PROJECT NO. LOT-3792

No.	Drawing Issue Description	Date	By

Date  
APRIL 18, 2008

Sheet Title  
**LIGHTING MODIFICATION PLAN  
RUNWAY 2-20**

07A0166  
Project Number  
LDH 03/17/08  
Layout By Date  
LDH 03/17/08  
Designed By Date  
RMH 03/20/08  
Reviewed By Date  
LDH ---  
Drawn By

51

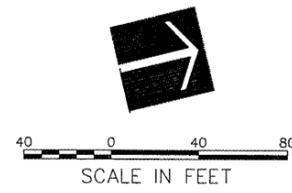
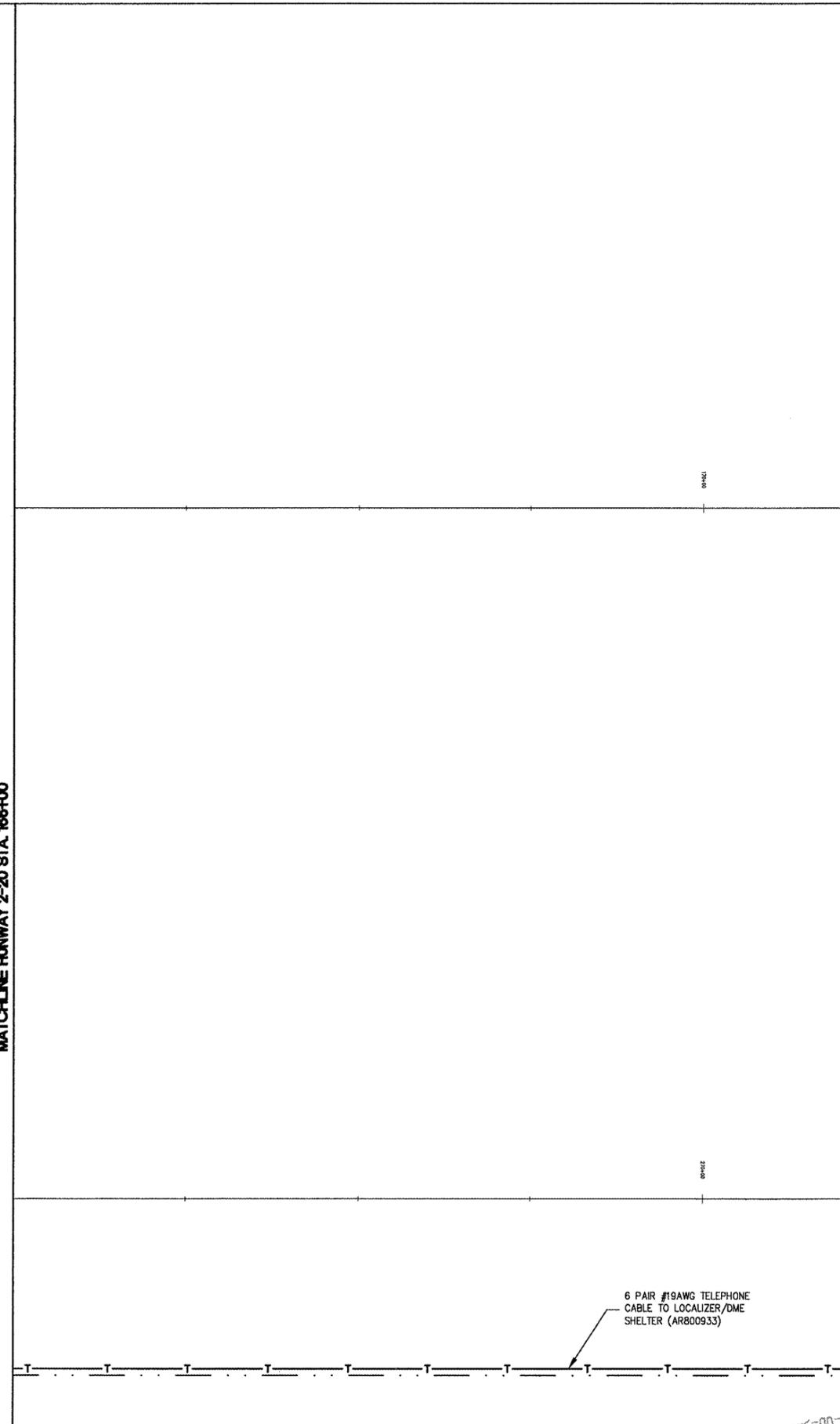
Sheet No.





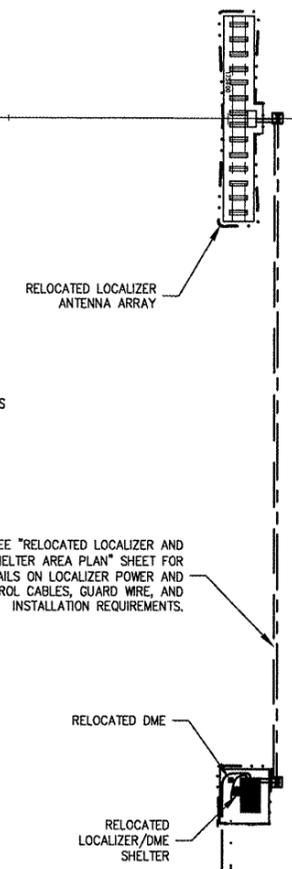
I:\02\085\00840\07A0166\DRAWINGS\LSHEETS\54-LIGHTING PLAN\DWG APR 18, 2008 10:19AM HAUSKIND082

MATCHLINE RUNWAY 2-20 STA. 166+00



**AIRFIELD LIGHTING NOTES**

1. FOR NOTES AND LEGEND SEE SHEET 52.
2. THE EXISTING LOCALIZER IS A THALES MARK 20A. THE EXISTING DME (DISTANCE MEASURING EQUIPMENT) IS A THALES 415SE DME. COORDINATE RELOCATION AND INSTALLATION WORK WITH THE RESPECTIVE LOCALIZER AND DME MANUFACTURER:  
 THALES AIR TRAFFIC MANAGEMENT  
 23501 W. 84TH STREET  
 SHAWNEE, KANSAS 66227-3296  
 PHONE: 913.422.2726  
 FAX: 913.422.2962
3. RELOCATION OF THE LOCALIZER, DME, AND SHELTER BUILDING WILL BE PAID FOR UNDER ITEM AR127961 RELOCATE LOCALIZER PER LUMP SUM.
4. ELECTRICAL HANDHOLES ASSOCIATED WITH THE LOCALIZER RELOCATION WILL BE PAID FOR SEPARATELY UNDER ITEM AR110610 ELECTRICAL HANDHOLE PER EACH.



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**EXTEND RUNWAY 2-20; CONSTRUCT TAXIWAY TURNAROUND**  
 AIP PROJECT NO. 3-17-0140-B42  
 IDA PROJECT NO. LOT-3792

No.	Drawing Issue Description	Date	By

Date  
 APRIL 18, 2008  
 Sheet Title

**LIGHTING PLAN  
 RUNWAY 2-20  
 STA. 166+00 THRU  
 STA. 177+00**

07A0166  
 Project Number  
 LDH 2/22/08  
 Layout By Date  
 LDH 2/22/08  
 Designed By Date  
 RMH 03/20/08  
 Reviewed By Date  
 LDH  
 Drawn By Sheet No.

**54**



4-1072085(1009-01) 07A0166 (REV) 156-ELECTRICAL LEGENDING APR 18, 2008 10:15AM HAUSM0062

ELECTRICAL LEGEND -- ONE-LINE DIAGRAM	
	CABLE TERMINATOR/LUG
	TRANSFORMER
	DISCONNECT SWITCH
	FUSIBLE DISCONNECT SWITCH
	CIRCUIT BREAKER
	THERMAL MAGNETIC CIRCUIT BREAKER
	FUSE
	TRANSIENT VOLTAGE SURGE SUPPRESSOR OR SURGE PROTECTOR DEVICE
	GROUND - GROUND ROD, GROUNDING ELECTRODE, OR AT EARTH POTENTIAL
	INDICATING LIGHT
	MOTOR
	LOAD, MOTOR, # = HORSEPOWER
	ELECTRIC UTILITY METER BASE
	JUNCTION BOX WITH SPLICE
	EQUIPMENT, XXX = DEVICE DESCRIPTION
	GROUND BUS OR TERMINAL
	NEUTRAL BUS
	PANELBOARD WITH MAIN LUGS
	PANELBOARD WITH MAIN BREAKER
	FUSE PANEL WITH MAIN FUSE PULLOUT
	DUPLEX RECEPTACLE 120V SINGLE PHASE GROUNDING TYPE
	CONTROL STATION
	TRANSFER SWITCH
	ENGINE GENERATOR SET

ELECTRICAL LEGEND -- SCHEMATIC	
	NORMALLY OPEN (N.O.) CONTACT
	NORMALLY CLOSED (N.C.) CONTACT
	STARTER COIL, * = STARTER NUMBER
	OVERLOAD RELAY CONTACT
	CONTROL RELAY, * = CONTROL RELAY NUMBER
	RELAY, * = RELAY NUMBER
	TOGGLE SWITCH / 2 POSITION SWITCH
	2-POSITION SELECTOR SWITCH
	3-POSITION SELECTOR SWITCH (H-O-A SHOWN)
	2 POLE DISCONNECT SWITCH
	3 POLE DISCONNECT SWITCH
	PHOTOCELL
	TERMINAL BLOCK, * = TERMINAL NUMBER
	DEVICE TERMINAL, * = DEVICE TERMINAL NUMBER
	INTERNAL PANEL WIRING
	FIELD WIRING
	FUSE
	GROUND BUS OR TERMINAL
	NEUTRAL BUS
	GROUND, GROUND ROD, GROUND BUS
	INDUSTRIAL CONTROL RELAY OR LIGHTING CONTACTOR
	S1 CUTOUT HANDLE REMOVED
	S1 CUTOUT HANDLE INSERTED
	N.O. THERMAL SWITCH
	N.C. THERMAL SWITCH
	L-830 SERIES ISOLATION TRANSFORMER

ELECTRICAL ABBREVIATIONS	
A.F.F.	ABOVE FINISHED FLOOR
A, AMP	AMPERES
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CR	CONTROL RELAY
CU	COPPER
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EP	EXPLOSION PROOF
ES	EMERGENCY STOP
ETL	INTERTEK - ELECTRICAL TESTING LABS
ETM	ELAPSE TIME METER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
GRSC	GALVANIZED RIGID STEEL CONDUIT
HID	HIGH INTENSITY DISCHARGE
HOA	HAND OFF AUTOMATIC
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
J	JUNCTION BOX
KVA	KILOVOLT AMPERE(S)
KW	KILOWATTS
LC	LIGHTING CONTACTOR
LTFCM	LIQUID TIGHT FLEXIBLE METAL CONDUIT (UL LISTED)
LTC	LIGHTING
LP	LIGHTING PANEL
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCM	THOUSAND CIRCUAR MIL
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MH	METAL HALIDE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
NEC	NATIONAL ELECTRICAL CODE (NFPA 70)
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OHE	OVERHEAD ELECTRIC
OL	OVERLOAD

ELECTRICAL ABBREVIATIONS (CONTINUED)	
PB	PULL BOX
PC	PHOTO CELL
PDB	POWER DISTRIBUTION BLOCK
PNL	PANEL
RCPT	RECEPTACLE
R	RELAY
S	STARTER
SPD	SURGE PROTECTION DEVICE
SPST	SINGLE POLE SINGLE THROW
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
UG	UNDERGROUND
UGE	UNDERGROUND ELECTRIC
UL	UNDERWRITER'S LABORATORIES
V	VOLTS
W/	WITH
W/O	WITHOUT
WP	WEATHER PROOF
XFER	TRANSFER
XFMR	TRANSFORMER

AIRPORT EQUIPMENT/FACILITY ABBREVIATIONS	
ASOS	AUTOMATED SURFACE OBSERVING SYSTEM
ATCT	AIR TRAFFIC CONTROL TOWER
AWOS	AUTOMATED WEATHER OBSERVING SYSTEM
CCR	CONSTANT CURRENT REGULATOR
DME	DISTANCE MEASURING EQUIPMENT
FAR	FEDERAL AVIATION REGULATION
GS	GLIDE SLOPE FACILITY
HIRL	HIGH INTENSITY RUNWAY LIGHT
ILS	INSTRUMENT LANDING SYSTEM
IM	INNER MARKER
LIR	LOW IMPACT-RESISTANT
LOC	LOCALIZER FACILITY
MALS	MEDIUM INTENSITY APPROACH LIGHTING SYSTEM
MALSR	MEDIUM INTENSITY APPROACH LIGHTING SYSTEM WITH RUNWAY ALIGNMENT INDICATING LIGHTS
MIRL	MEDIUM INTENSITY RUNWAY LIGHT
MITL	MEDIUM INTENSITY TAXIWAY LIGHT
NDB	NON-DIRECTIONAL BEACON
PAPI	PRECISION APPROACH PATH INDICATOR
PLASI	PULSE LIGHT APPROACH SLOPE INDICATOR
RAIL	RUNWAY ALIGNMENT INDICATING LIGHTS
REIL	RUNWAY END IDENTIFIER LIGHT
RVR	RUNWAY VISUAL RANGE
VADI	VISUAL APPROACH DESCENT INDICATOR
VASI	VISUAL APPROACH SLOPE INDICATOR
VOR	VERY HIGH FREQUENCY OMNIDIRECTIONAL RANGE FACILITY
WC	WIND CONE

**NOTES:**

- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 70 - NATIONAL ELECTRICAL CODE (NEC) MOST CURRENT ISSUE IN FORCE, THE RESPECTIVE EQUIPMENT MANUFACTURER'S DIRECTIONS AND ALL OTHER APPLICABLE LOCAL CODES, LAWS, ORDINANCES, AND REQUIREMENTS IN FORCE. ANY INSTALLATIONS WHICH VOID THE U.L. LISTING, ETL LISTING (OR OTHER THIRD PARTY LISTING) AND/OR THE MANUFACTURER'S WARRANTY OF A DEVICE WILL NOT BE PERMITTED.
- CONTRACTOR SHALL COORDINATE WORK AND ANY POWER OUTAGES WITH THE RESPECTIVE FACILITY OWNER PERSONNEL AND THE AIRPORT MANAGER.
- COLOR CODE PHASE AND NEUTRAL CONDUCTOR INSULATION FOR NO. 6 AWG OR SMALLER. PROVIDE COLORED INSULATION OR COLORED MARKING TAPE FOR PHASE AND NEUTRAL CONDUCTORS FOR NO. 4 AWG AND LARGER. INSULATED GROUND CONDUCTORS SHALL HAVE GREEN COLORED INSULATION FOR ALL CONDUCTOR AWG AND/OR KCMIL TO COMPLY WITH NEC 250.119. NEUTRAL CONDUCTORS SHALL HAVE WHITE COLORED INSULATION FOR NO. 6 AWG AND SMALLER TO MEET THE REQUIREMENTS OF NEC 200.6. STANDARD COLORS FOR POWER WIRING AND BRANCH CIRCUITS SHALL BE AS FOLLOWS:

120/240 VAC, 1 PHASE, 3 WIRE  
 PHASE A BLACK  
 PHASE B RED  
 NEUTRAL WHITE  
 GROUND GREEN

480 VAC, 1 PHASE, 2 WIRE  
 (WITH GROUNDED CONDUCTOR)  
 PHASE A BROWN OR BLACK WITH BROWN TAPE  
 NEUTRAL GRAY OR WHITE  
 GROUNDED CONDUCTOR/ GROUND GREEN

- SEE RESPECTIVE SITE PLANS FOR SITE LEGEND INFORMATION.
- LTFCM DENOTES LIQUID TIGHT FLEXIBLE METAL CONDUIT UL LISTED, SUNLIGHT RESISTANT, & SUITABLE FOR GROUNDING. LIQUID TIGHT FLEXIBLE METAL CONDUIT AND ASSOCIATED FITTINGS SHALL BE U.L. LISTED TO MEET THE REQUIREMENTS OF NEC 350.6. LIQUID TIGHT FLEXIBLE METAL CONDUIT THAT IS USED FOR FLEXIBILITY (INCLUDING CONNECTIONS TO CCR'S & TRANSFORMERS) SHALL REQUIRE AN EXTERNAL BONDING JUMPER OR INTERNAL EQUIPMENT GROUNDING CONDUCTOR PER NEC 350.60. EXTERNAL BONDING JUMPERS USED WITH CCR INSTALLATIONS SHALL BE #6 AWG COPPER (MINIMUM). DO NOT INSTALL LTFCM THAT IS NOT UL LISTED.

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EXTEND RUNWAY 2-20; CONSTRUCT TAXIWAY TURNAROUND

AIP PROJECT NO. 3-17-0140-B42  
 IDA PROJECT NO. LOT-3792

No.	Drawing Issue Description	Date	By

Date  
 APRIL 18, 2008  
 Sheet Title

**ELECTRICAL LEGEND AND ABBREVIATIONS**

07A0166  
 Project Number  
 KNL 03/17/08  
 Layout By Date  
 KNL 03/17/08  
 Designed By Date  
 RMH 03/20/08  
 Reviewed By Date  
 MV  
 Drawn By Sheet No.





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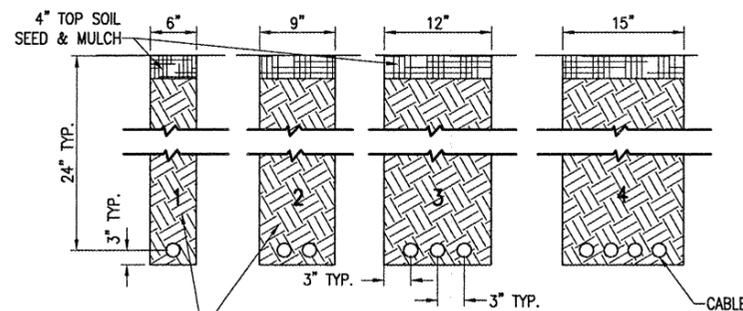


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EXTEND RUNWAY 2-20; CONSTRUCT  
TAXIWAY TURNAROUND

AIP PROJECT NO. 3-17-0140-B42  
IDA PROJECT NO. LOT-3792



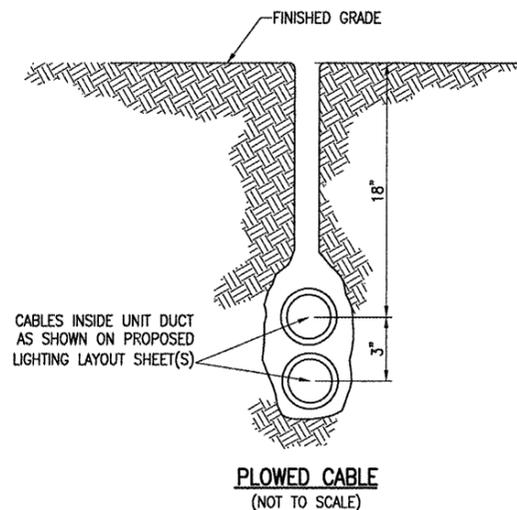
EARTH BACKFILL WILL HAVE MAXIMUM 1" SIZE PARTICLES AND WILL BE PLACED IN TWO LIFTS AS APPROXIMATELY SHOWN (TYPICAL FOR ALL TRENCHES)

NOTES:  
DETAIL NUMBERS INDICATE NO. OF CABLES.

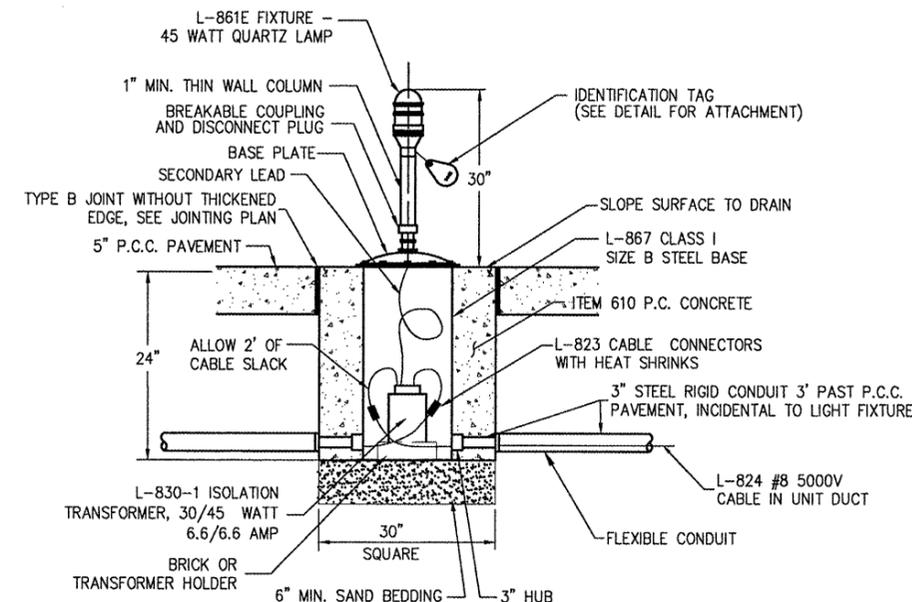
DEPTH OF TRENCHES SHALL BE AS SHOWN ABOVE UNLESS OTHERWISE SPECIFIED ON THE PLANS.

ALL DISTURBED SURFACES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION. COST IS INCIDENTAL TO TRENCH.

**CABLE TRENCHES**  
(NOT TO SCALE)



**PLOWED CABLE**  
(NOT TO SCALE)

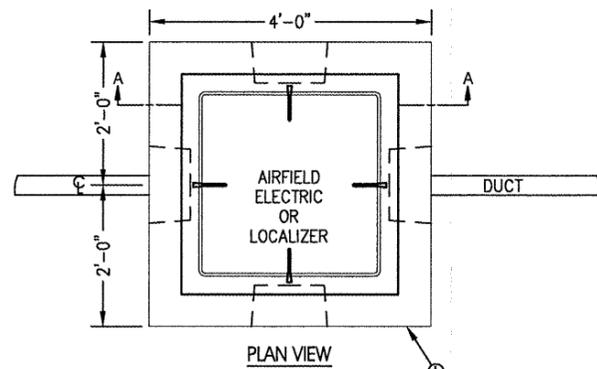


1. BREAKABLE COUPLING SHALL NOT BE OVER 1" ABOVE BASE PLATE.
2. TWO FEET OF SLACK CABLE IS TO BE LEFT AT EACH LIGHT. SLACK IS TO BE ON THE CABLE SIDE OF PRIMARY CONNECTORS AND SPLICES AND IS TO BE INCIDENTAL TO THE CABLE.
3. GALVANIZED RIGID STEEL CONDUIT SHALL BE INCIDENTAL TO LIGHT FIXTURE.
4. SEE SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.

SIDE VIEW

**RELOCATED L-861E BASE-MOUNTED THRESHOLD LIGHT**

(FIXTURES 054-059)



PLAN VIEW

PARTS LIST (PER EACH)		
ITEM	DESCRIPTION	QUANTITY
1	PRECAST CONCRETE JUNCTION BOX	1
2	CAST IRON FRAME & COVER EAST JORDAN IRON WORKS 8213 OR EQUAL WITH CONCEALED HINGE COVER. LETTERING "AIRFIELD ELECTRIC" (1) OR "LOCALIZER" (3).	1
3	3/8" PLASTIC THREADED INSERT	4
4	3/8" Ø GALVANIZED CABLE HOOK	4

**SPECIFICATIONS**

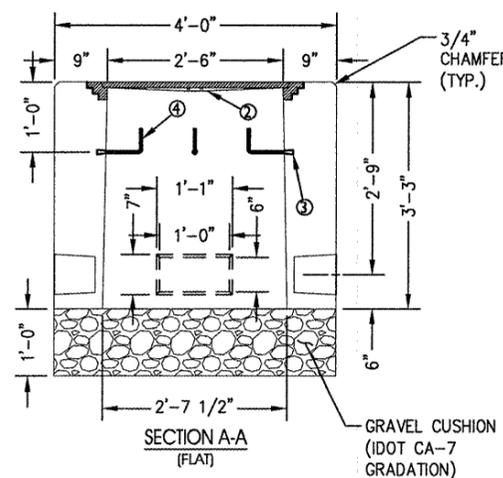
CONCRETE: 5,000 P.S.I. @ 28 DAYS, 5%-8% ENTRAINED AIR, 4" MAX. SLUMP. IDOT CLASS P.C.

DESIGN CRITERIA: PRECAST VERSION OF ILLINOIS STATE TOLL HIGHWAY AUTHORITY STANDARD NO. RL 91-04 LIGHT AND HEAVY DUTY JUNCTION BOXES.

WEIGHT: 4,990# FLAT TOP

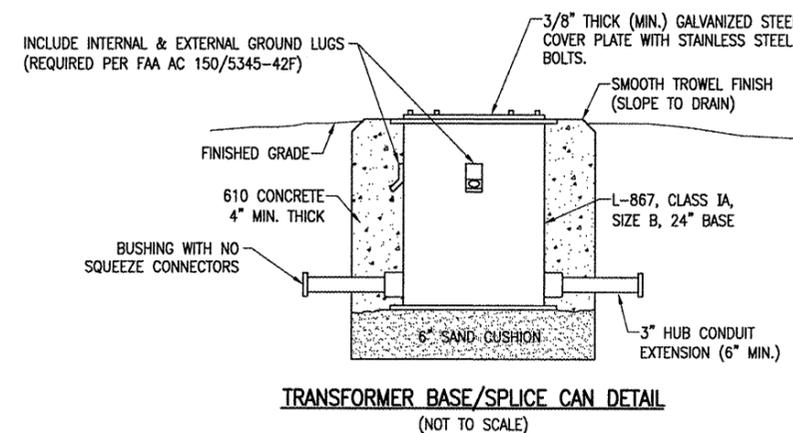
**NOTES**

1. HANDHOLE SHALL BE PRECAST AS DETAILED.
2. PRECAST HANDHOLE TO BE UTILITY CONCRETE PRODUCTS, LLC. 30" X 30" JUNCTION BOX OR APPROVED EQUAL.
3. HANDHOLE FRAME AND LID SHALL BE HEAVY DUTY SUITABLE FOR H-20 LOADING. LIDS FOR HANDHOLES USED WITH AIRFIELD LIGHTING OR ELECTRICAL CABLES SHALL BE LABELED "AIRFIELD ELECTRIC". LIDS FOR HANDHOLES USED WITH THE DUCTS AND CABLES BETWEEN THE LOCALIZER/DME SHELTER AND THE LOCALIZER ANTENNA ARRAY SHALL BE LABELED "LOCALIZER".
4. GRAVEL CUSHION SHALL BE INCIDENTAL TO THE HANDHOLE.
5. HANDHOLES WILL BE PAID FOR UNDER ITEM AR110610 ELECTRICAL HANDHOLE PER EACH.



SECTION A-A  
(FLAT)

**ELECTRICAL HANDHOLE**



**TRANSFORMER BASE/SPLICE CAN DETAIL**  
(NOT TO SCALE)

No.	Drawing Issue Description	Date	By

Date  
APRIL 18, 2008  
Sheet Title

**PROPOSED ELECTRICAL DETAILS SHEET 2**

07A0166  
Project Number  
KNL 03/11/08  
Layout By Date  
KNL 03/11/08  
Designed By Date  
RMH 03/20/08  
Released By Date  
MV  
Drawn By Sheet No.

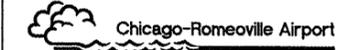


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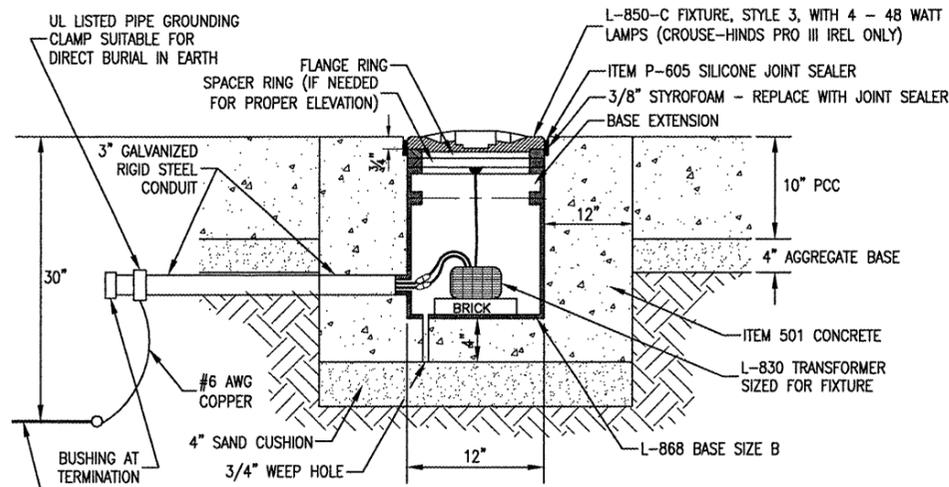


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EXTEND RUNWAY 2-20; CONSTRUCT  
TAXIWAY TURNAROUND

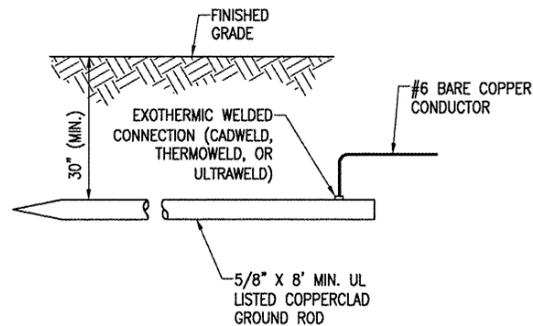
AIP PROJECT NO. 3-17-0140-B42  
IDA PROJECT NO. LOT-3792



**IN-PAVEMENT RUNWAY LIGHT**

NOTE:  
LIGHT INSTALLATION MUST BE MADE IN A BOX-OUT,  
AS DETAILED ON SHEET 31.

5/8" DIA. X 8'L (MIN.) UL LISTED  
COPPERCLAD GND ROD, MIN. BURY  
30" BELOW FINISHED GRADE IN  
HORIZONTAL TRENCH TO AVOID  
PENETRATING INTO THE COAL  
COMBUSTION BY-PRODUCT (CCB)  
BARRIER. DO NOT PENETRATE THE  
CCB BARRIER.

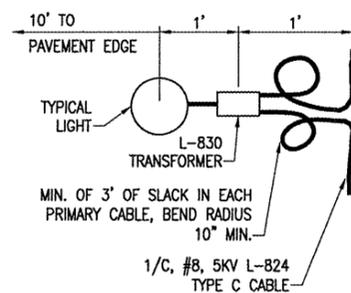


**GROUND ROD**  
(NOT TO SCALE)

NOTES:  
TYPE AND MINIMUM NUMBER OF GROUND RODS SHALL BE AS SPECIFIED ON THE PLAN.

COST OF GROUND RODS IS INCIDENTAL TO THE ASSOCIATED ITEMS REQUIRING GROUNDING  
UNLESS OTHERWISE SPECIFIED.

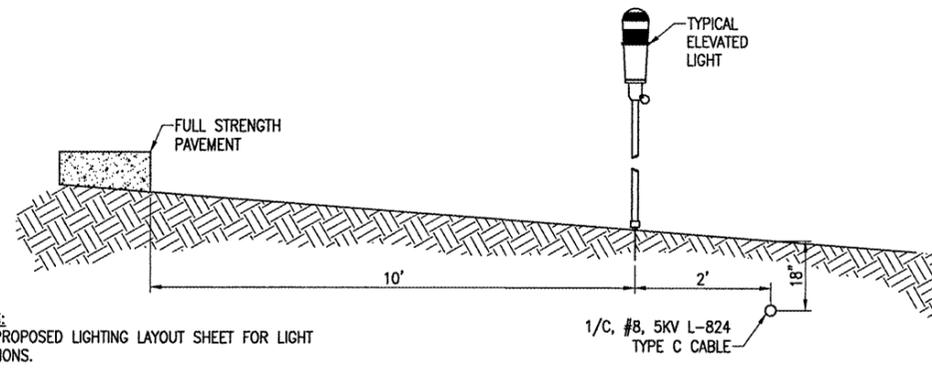
PER FAA AC 150/5340-30C DESIGN AND INSTALLATION DETAILS FOR AIRPORT VISUAL AIDS,  
A SAFETY GROUND ROD MUST BE INSTALLED AT EACH LIGHT FIXTURE. A SAFETY GROUND  
SHALL BE INSTALLED AT EACH STAKE MOUNTED LIGHT AND EACH TRANSFORMER BASE/LIGHT  
CAN ASSOCIATED WITH RUNWAY LIGHTS, TAXIWAY LIGHTS, AND LIGHTED TAXI GUIDANCE  
SIGNS. THE SAFETY GROUND SHALL BE A #6 AWG BARE COPPER CONDUCTOR CONNECTED  
TO THE GROUND LUG ON THE RESPECTIVE L-867 TRANSFORMER BASE/LIGHT CAN OR  
MOUNTING STAKE AND A 5/8-INCH DIAMETER BY 8-FOOT LONG (MINIMUM) UL LISTED  
COPPER CLAD GROUND ROD. ALL GROUND RODS FOR AIRFIELD LIGHTING DEVICES SHALL BE  
INSTALLED IN A HORIZONTAL TRENCH 30" MINIMUM DEPTH BELOW FINISHED GRADE, TO AVOID  
PENETRATING THE COAL COMBUSTION BY-PRODUCT (CCB) BARRIER. DO NOT PENETRATE  
THE CCB BARRIER.



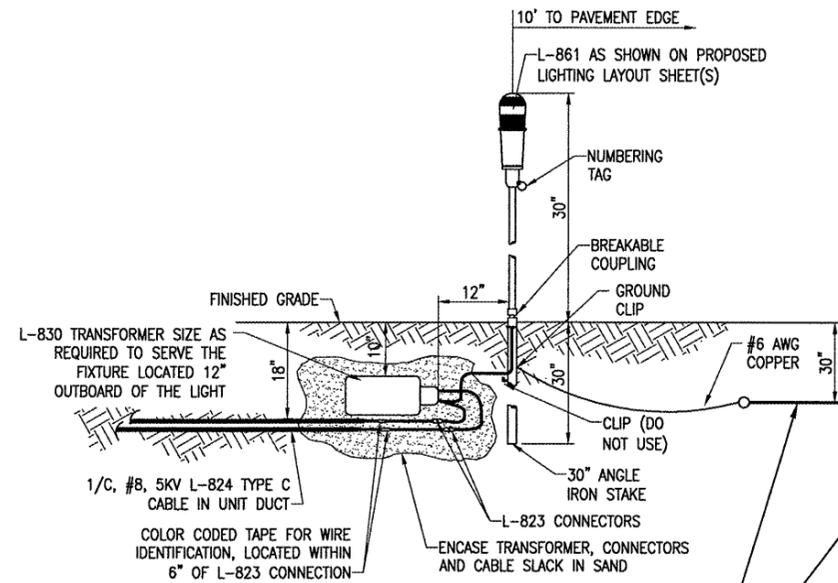
**PLAN VIEW**

NOTES:  
SEE PROPOSED LIGHTING LAYOUT SHEET FOR LIGHT  
LOCATIONS.

**LIGHT AND CABLE INSTALLATION DETAIL**  
(NOT TO SCALE)



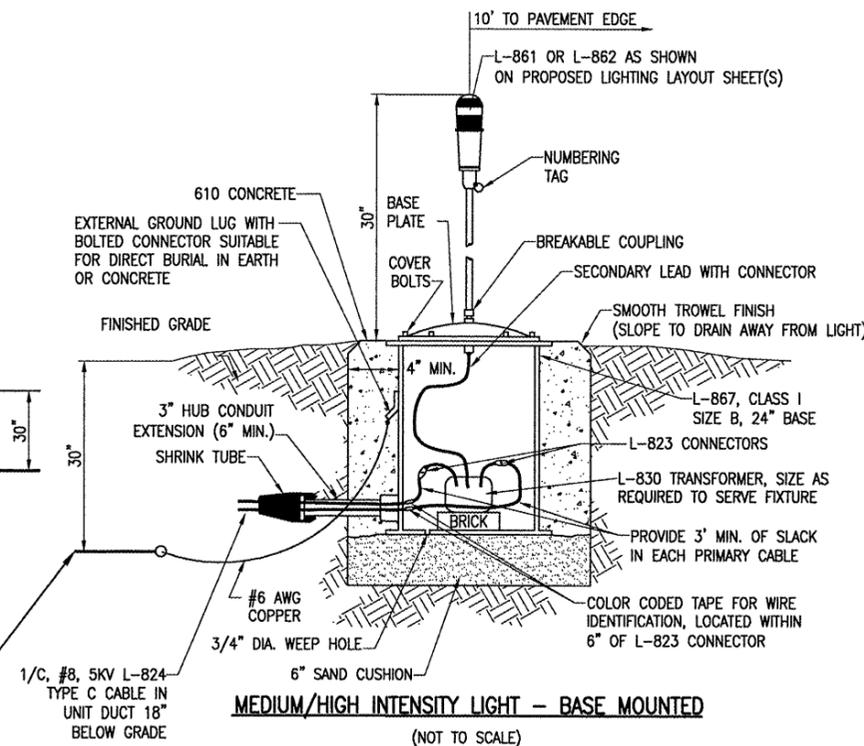
**PROFILE VIEW**



**MEDIUM INTENSITY LIGHT - STAKE MOUNTED**

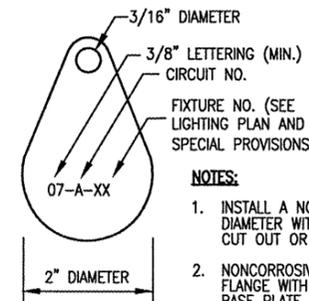
(NOT TO SCALE)

5/8" DIA. X 8'L (MIN.) UL LISTED COPPERCLAD GND  
ROD, MIN. BURY 30" BELOW FINISHED GRADE IN  
HORIZONTAL TRENCH TO AVOID PENETRATING INTO THE  
COAL COMBUSTION BY-PRODUCT (CCB) BARRIER. DO  
NOT PENETRATE THE CCB BARRIER.



**MEDIUM/HIGH INTENSITY LIGHT - BASE MOUNTED**

(NOT TO SCALE)



**IDENTIFICATION TAG DETAIL**

- NOTES:
1. INSTALL A NONCORROSIVE DISC OF 2" MINIMUM  
DIAMETER WITH NUMBER PERMANENTLY STAMPED,  
CUT OUT OR ENGRAVED.
  2. NONCORROSIVE DISC MAY BE ATTACHED TO LIGHT  
FLANGE WITH SCREW OR UNDER THE HEAD OF THE  
BASE PLATE BOLT.
  3. SEE SPECIAL PROVISIONS FOR LETTERING.

No.	Drawing Issue Description	Date	By

Date  
APRIL 18, 2008  
Sheet Title

**PROPOSED  
ELECTRICAL DETAILS  
SHEET 3**

07A0166  
Project Number  
KNL 03/11/08  
Layout By Date  
KNL 03/11/08  
Designed By Date  
RMH 03/20/08  
Reviewed By Date  
MV  
Drawn By Sheet No.

4: LOT-0085 (00840) (07A0166) (DRAWINGS) (SHEETS) (SP-ELECTRICAL) (DETAILS) (INC) (APR 18, 2008 10:18AM) (HAUSM0082)















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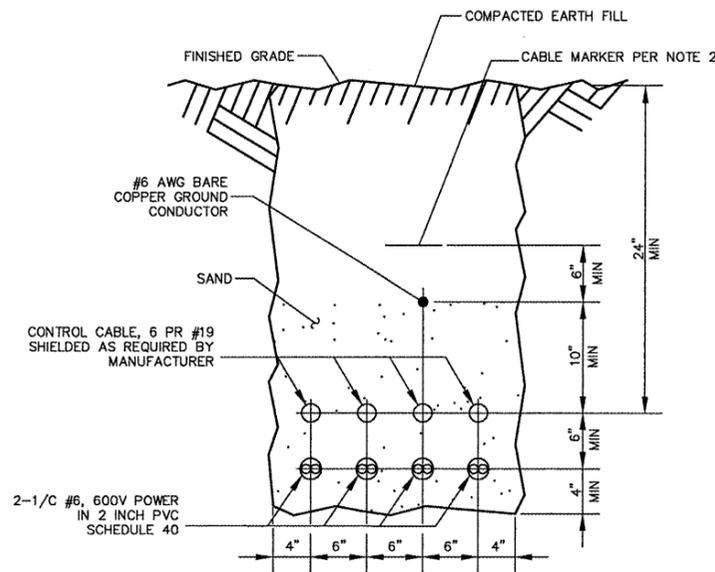


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EXTEND RUNWAY 2-20: CONSTRUCT  
TAXIWAY TURNAROUND

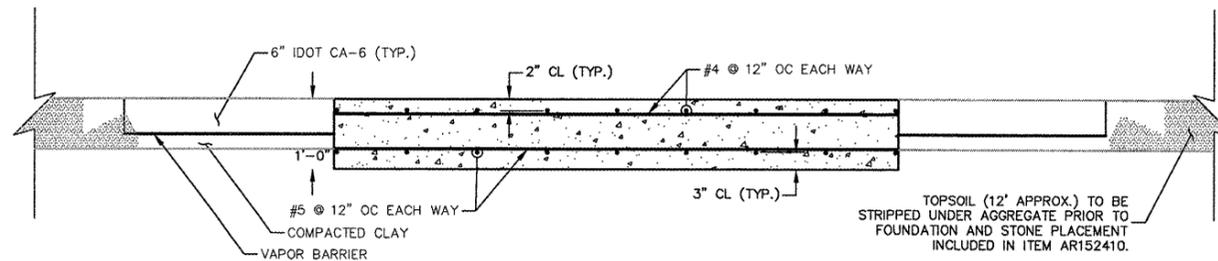
AIP PROJECT NO. 3-17-0140-B42  
IDA PROJECT NO. LOT-3792



**NOTES:**

1. THIS DETAIL IS INTENDED ONLY TO SHOW THE REQUIRED SEPARATION OF THE VARIOUS CABLES WITHIN THE TRENCH. FOR EXACT NUMBER OF CABLES RUNNING TO EACH PAPI UNIT, SEE WIRING DIAGRAM BY MANUFACTURER.
2. CABLE MARKER TAPE, PN 0761315 MANUFACTURED BY ALLEN SYSTEMS, OR EQUAL, SHALL BE PLACED IN ALL CABLE TRENCHES AT 6" ABOVE GROUNDING CONDUCTOR

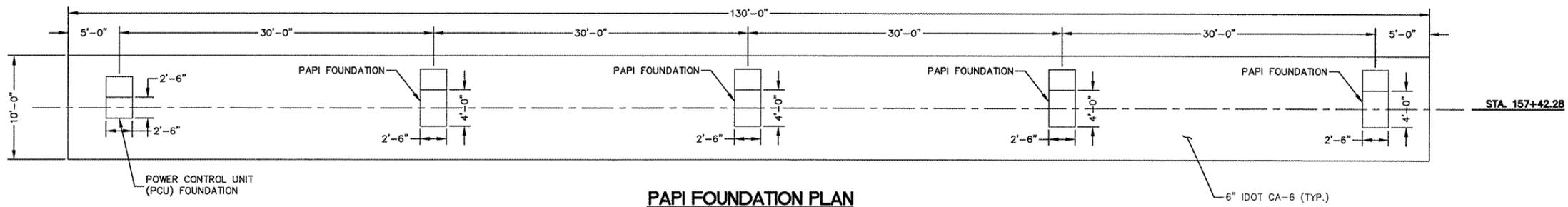
**PAPI CABLES TRENCH DETAIL**



**PAPI FOUNDATION SECTION**

**NOTES:**

1. COMPACTED STONE TO BE PAID SEPERATELY UNDER ITEM AR208606. VAPOR BARRIER TO BE PAID SEPERATELY UNDER ITEM AR800968.



**PAPI FOUNDATION PLAN**

DETAILS SHOWN ARE NOT TO SCALE

No.	Drawing Issue Description	Date	By

Date  
APRIL 18, 2008  
Sheet Title

**PAPI FOUNDATION  
DETAILS**

07A0166  
Project Number  
LDH 03/07/08  
Layout By Date  
LDH 03/07/08  
Designed By Date  
RMH 03/20/08  
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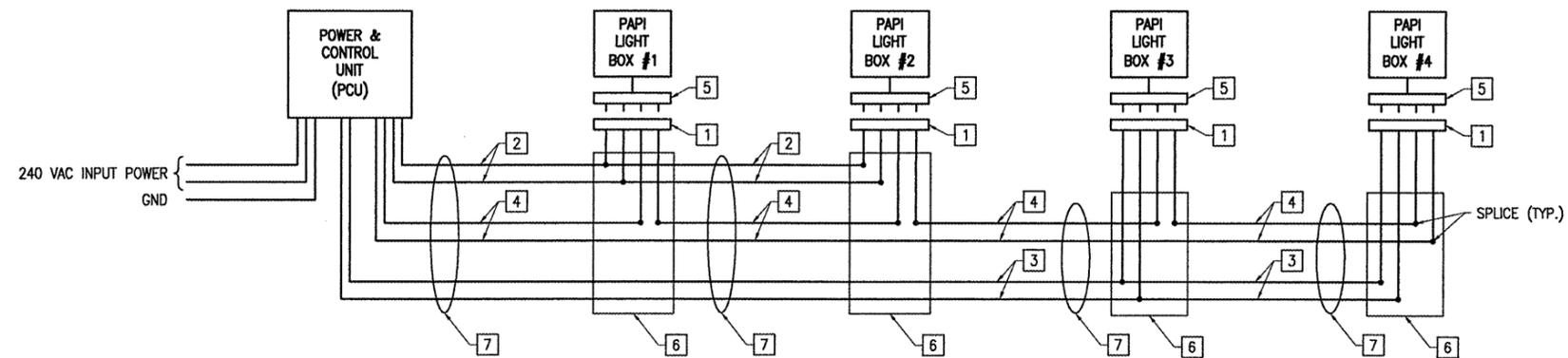


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EXTEND RUNWAY 2-20: CONSTRUCT  
TAXIWAY TURNAROUND

AIP PROJECT NO. 3-17-0140-B42  
IDA PROJECT NO. LOT-3792



PAPI FIELD WIRING CONNECTIONS  
(FOR CROUSE-HINDS 8802A-1 PAPI)

## NOTES

- EXISTING PAPI FOR RUNWAY 20 IS A CROUSE-HINDS MODEL 8802A-1 (L-880 - 4 LIGHT UNITS WITH 2 LAMPS IN EACH PAPI LIGHT BOX, STYLE A - VOLTAGE POWERED, CLASS I SYSTEM -35°C TO +55°C OPERATION RANGE). PAPI FIELD WIRING CONNECTION DIAGRAM IS BASED ON A CROUSE-HINDS PART NO 8802A-1, L-880 STYLE A PAPI WITH 2 LAMPS PER LIGHT BOX, & INFORMATION PROVIDED BY CROUSE-HINDS FIELD SERVICE SUPPORT CENTER. CONTRACTOR SHALL CONFIRM WIRING INSTALLATION MANUAL REQUIREMENTS WITH THE RESPECTIVE PAPI MANUFACTURER AND ADJUST TO MEET MANUFACTURER INSTRUCTIONS AND RECOMMENDATIONS. POWER WIRING REQUIREMENTS SHOWN ARE MINIMUM, FOR THE RESPECTIVE PAPI SYSTEM.
- INCLUDE #6 AWG EQUIPMENT GROUND WIRE IN CONDUIT WITH POWER & CONTROL WIRING BETWEEN THE POWER & CONTROL UNIT & THE PAPI LIGHT BOXES.
- PROVIDE WATER SEALS FOR CONDUITS ENTERING/LEAVING PAPI POWER AND CONTROL UNIT.
- RELOCATION OF PAPI SYSTEM SHALL BE PAID FOR UNDER ITEM AR125968 RELOCATE PAPI.
- ALL POWER AND CONTROL CABLE FROM THE PAPI PCU TO THE PAPI LIGHT BOXES SHALL BE NEW CABLE AND BE INCIDENTAL TO ITEM AR125968 RELOCATE PAPI.

## KEYED NOTES

- CONSOLIDATING HARNESS, 4 #14 AWG LEADS AS FURNISHED OR REQUIRED BY PAPI MFR.
- OUTGOING POWER FEED FROM POWER & CONTROL UNIT TO THE TWO CLOSEST PAPI LIGHT BOXES (#1 & #2), #6 AWG XLP-USE OR THWN (MIN.)
- OUTGOING POWER FEED FROM POWER & CONTROL UNIT TO THE TWO FURTHEST PAPI LIGHT BOXES (#3 & #4), #2 AWG XLP-USE OR THWN (MIN.)
- TILT SWITCH WIRING #14 AWG XLP-USE OR THWN (MIN.) CONFIRM WIRING WITH PAPI MFR & ADJUST AS APPLICABLE.
- PLUG WITH CABLE ASSEMBLY AS FURNISHED OR REQUIRED BY PAPI MFR.
- L-867, CLASS IA, SIZE B, 24" DEEP SPLICE CAN.
- 2" MINIMUM GALVANIZED RIGID STEEL CONDUIT BETWEEN PAPI PCU AND L-867 SPLICE CANS AT PAPI LIGHT UNITS.

No.	Drawing Issue Description	Date	By

Date

APRIL 18, 2008

Sheet Title

**PAPI FIELD WIRING  
CONNECTIONS**

07A0166

Project Number

KNL 03/15/08

Layout By Date

KNL 03/15/08

Designed By Date

RMH 03/20/08

Reviewed By Date

LDH --- | ---

Drawn By

Sheet No.

67





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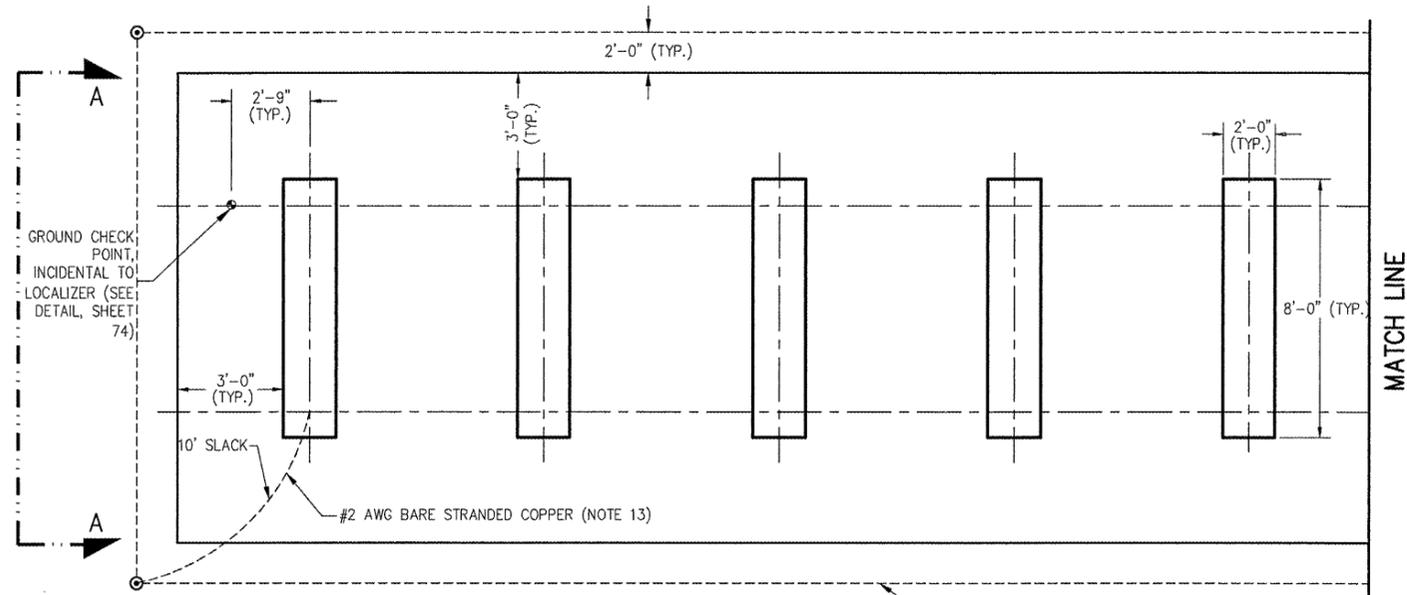
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Fax: 815.838.9524

EXTEND RUNWAY 2-20: CONSTRUCT TAXIWAY TURNAROUND

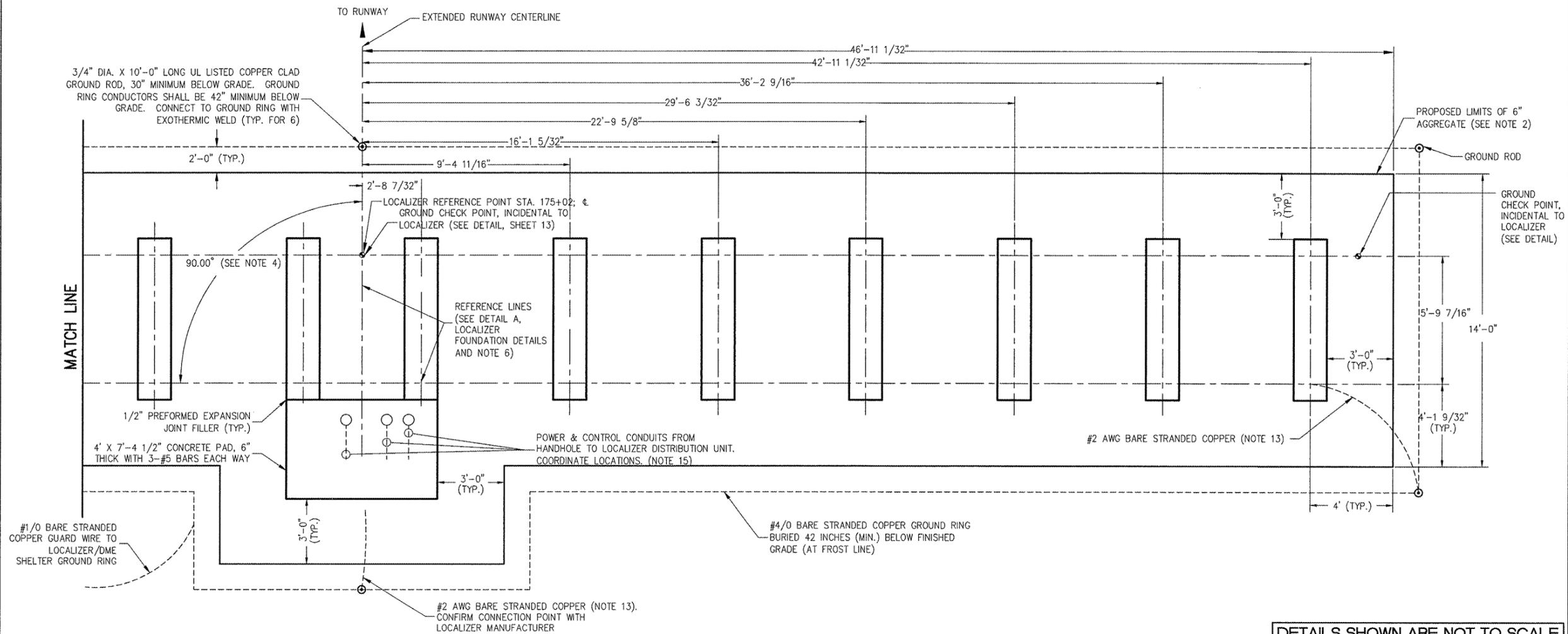
AIP PROJECT NO. 3-17-0140-B42  
IDA PROJECT NO. LOT-3792

**NOTES:**

1. CONCRETE SHALL BE ITEM 610 PC CONCRETE, AIR-ENTRAINED. FOR FOUNDATION DETAILS, SEE LOCALIZER ANTENNA FOUNDATION DETAIL SHEET.
2. PLACE AGGREGATE TO DIMENSIONS SHOWN ON THIS SHEET. AGGREGATE TO BE IDOT GRADATION CA-6. AGGREGATE TO BE PLACED OVER VAPOR BARRIER, SEE SPECIAL PROVISIONS.
3. ANTENNA ARRAY SHALL BE ALIGNED WITHIN +0.05' OF EXTENDED RUNWAY CENTERLINE.
4. FOUNDATION ELEVATIONS TO BE 653.94. CONCRETE SHALL BE FINISHED AS SMOOTH AS POSSIBLE AND LEVEL WITHIN ± 1/4".
5. REFERENCE LINES FOR LOCATING FOUNDATION ON SITE PLAN. CENTER OF ARRAY SHALL BE WITHIN +3" OF EXTENDED RUNWAY CENTERLINE. FOR SECTION A-A SEE LOCALIZER ANTENNA FOUNDATION DETAIL SHEET.
6. FOUNDATION LAYOUT MAY BE ADJUSTED TO MEET EQUIPMENT MANUFACTURER'S SPECIFICATIONS.
7. CONTRACTOR SHALL RELOCATE LOCALIZER ANTENNA AND PROVIDE CONCRETE, FOUNDATIONS, ALL WIRING AND CABLING AND GROUNDING NECESSARY FOR A COMPLETE INSTALLATION.
8. WORK TO BE PAID UNDER ITEM AR127961 RELOCATE LOCALIZER PER LUMP SUM EXCEPT AS NOTED.
9. COMPACTED STONE TO BE PAID SEPARATELY UNDER ITEM AR208606. VAPOR BARRIER TO BE PAID SEPARATELY UNDER ITEM AR800968.
10. ANTENNA SHALL BE RELOCATED WITH OBSTRUCTION LIGHTS (L-810) IN ACCORDANCE WITH FAA ADVISORY CIRCULAR 70/7460-1, CURRENT ISSUE.
11. LEAVE 10 FEET MIN. COILED LENGTH OF #2 AWG BARE STRANDED COPPER TO BE TERMINATED AT THE LOCALIZER ANTENNA ARRAY, PER MFR. REQUIREMENTS. CONFIRM MINIMUM REQUIRED SIZE OF GROUNDING ELECTRODE CONDUCTOR WITH LOCALIZER MANUFACTURER AND INCREASE WHERE APPLICABLE.
12. ALL CONNECTIONS TO GROUND RODS AND THE GROUND RING SHALL BE EXOTHERMIC WELD TYPE CONNECTIONS.
13. LEAVE OPENING AROUND CONDUITS TO ALLOW FIELD ADJUSTMENTS DURING DISTRIBUTION UNIT INSTALLATION.
14. EQUIPMENT, MATERIALS, LAYOUT, ETC. SHOWN ON THIS DRAWING ARE BASED ON INFORMATION FROM A PARTICULAR MANUFACTURER AND FAA STD 019E. ACTUAL EQUIPMENT INSTALLATION AND LAYOUT MIGHT VARY ACCORDING TO MANUFACTURER AND MUST BE APPROVED BY THE ENGINEER.
15. CONFIRM EQUIPMENT, MATERIALS, LAYOUT, ETC. WITH THE RESPECTIVE LOCALIZER MANUFACTURER.



#4/0 BARE STRANDED COPPER GROUND RING  
BURIED 42 INCHES (MIN.) BELOW FINISHED  
GRADE (AT FROST LINE)



DETAILS SHOWN ARE NOT TO SCALE

No.	Drawing Issue Description	Date	By

Date  
APRIL 18, 2008  
Sheet Title

LOCALIZER ANTENNA FOUNDATION PLAN

07A0166  
Project Number  
KNL 03/15/08  
Layout By Date  
KNL 03/15/08  
Designed By Date  
RMH 03/20/08  
Reviewed By Date  
LDH  
Drawn By Sheet No.

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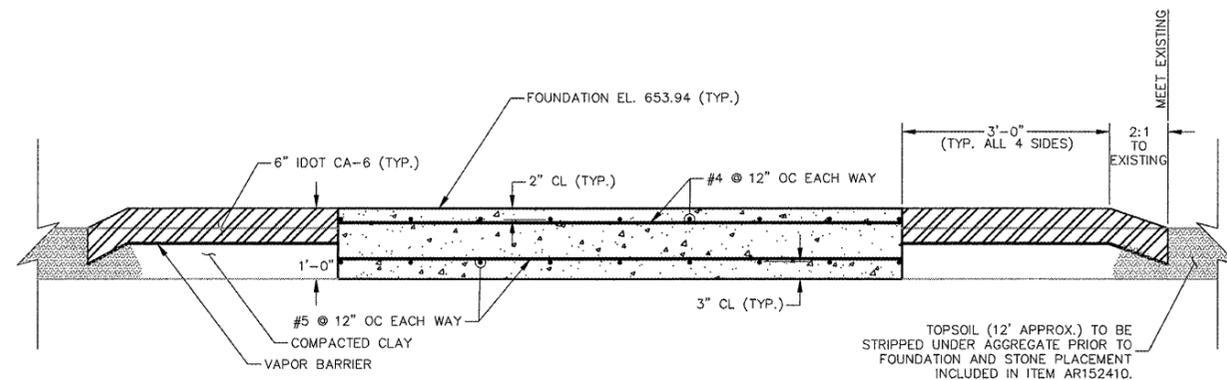


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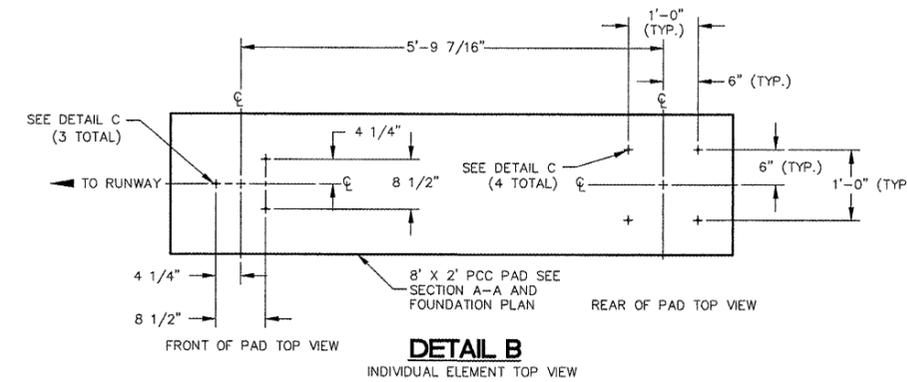
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EXTEND RUNWAY 2-20: CONSTRUCT  
TAXIWAY TURNAROUND

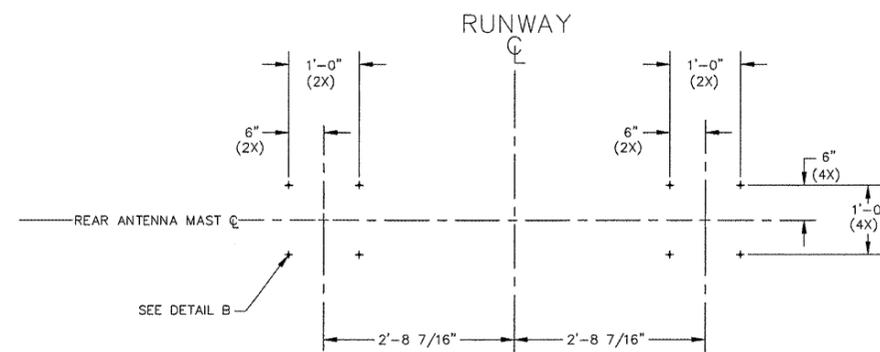
AIP PROJECT NO. 3-17-0140-B42  
IDA PROJECT NO. LOT-3792



SECTION A-A FROM FOUNDATION PLAN

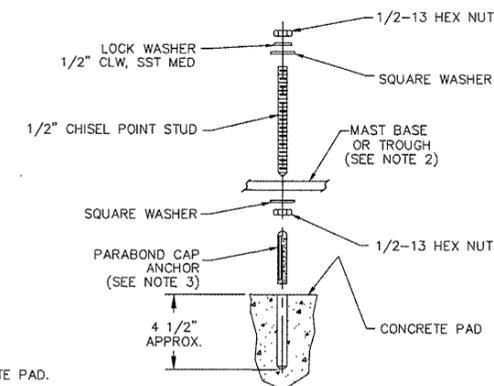


DETAIL B  
INDIVIDUAL ELEMENT TOP VIEW



DETAIL A

14 ELEMENT DU MAST MOUNTING



DETAIL C

NOTES

1. LEAVE 1/4" CLEARANCE BETWEEN BASE OF TROUGH AND TOP OF CONCRETE PAD.
2. FOLLOW MANUFACTURERS INSTRUCTIONS WHEN INSTALLING.
3. PLACE AGGREGATE TO DIMENSIONS AS SHOWN ON LOCALIZER PLAN SHEET. AGGREGATE ANTENNA FOUNDATION TO BE IDOT GRADATION CA-6.
4. FOUNDATION SHOWN IS TYPICAL. ACTUAL FOUNDATION LAYOUT BY EQUIPMENT MANUFACTURER.

DETAILS SHOWN ARE NOT TO SCALE

No.	Drawing Issue Description	Date	By

Date

APRIL 18, 2008

Sheet Title

LOCALIZER ANTENNA  
FOUNDATION DETAILS

07A0166  
Project Number  
LDH 03/20/08  
Layout By Date  
LDH 03/20/08  
Designed By Date  
RMH 03/20/08  
Reviewed By Date  
RJT  
Drawn By Sheet No.

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EXTEND RUNWAY 2-20: CONSTRUCT TAXIWAY TURNAROUND

AIP PROJECT NO. 3-17-0140-B42  
IDA PROJECT NO. LOT-3792

No.	Shelter Foundation	03/07/03TMM
No.	Drawing Issue Description	Date By

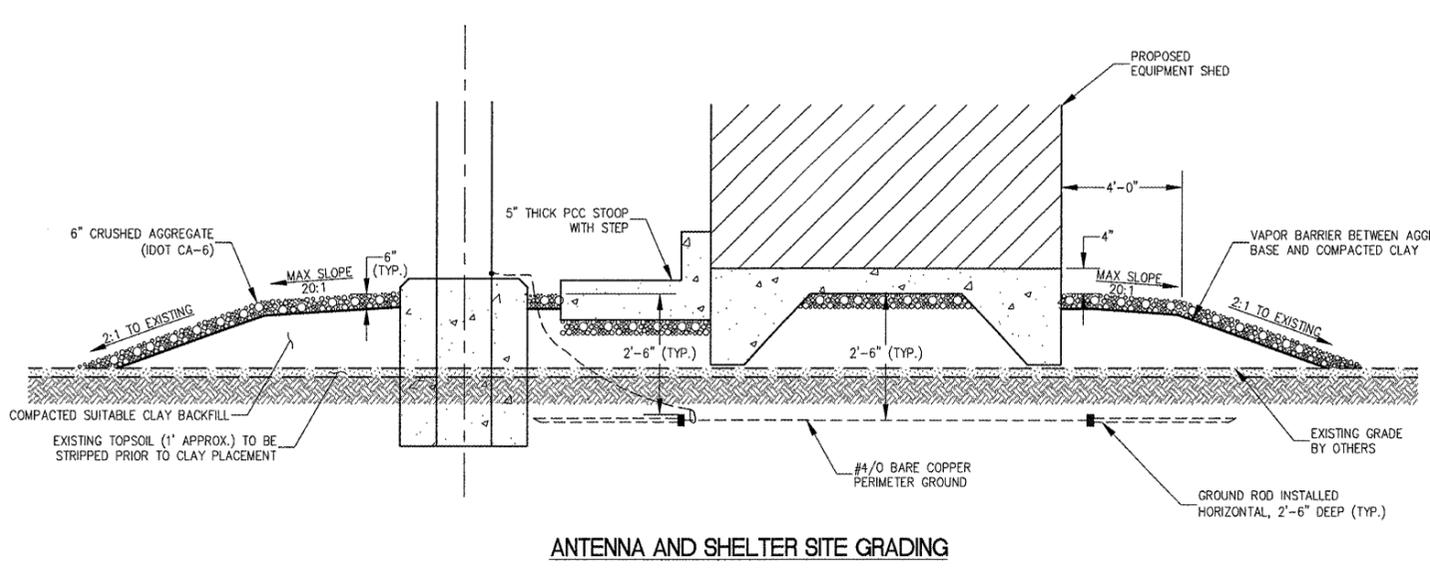
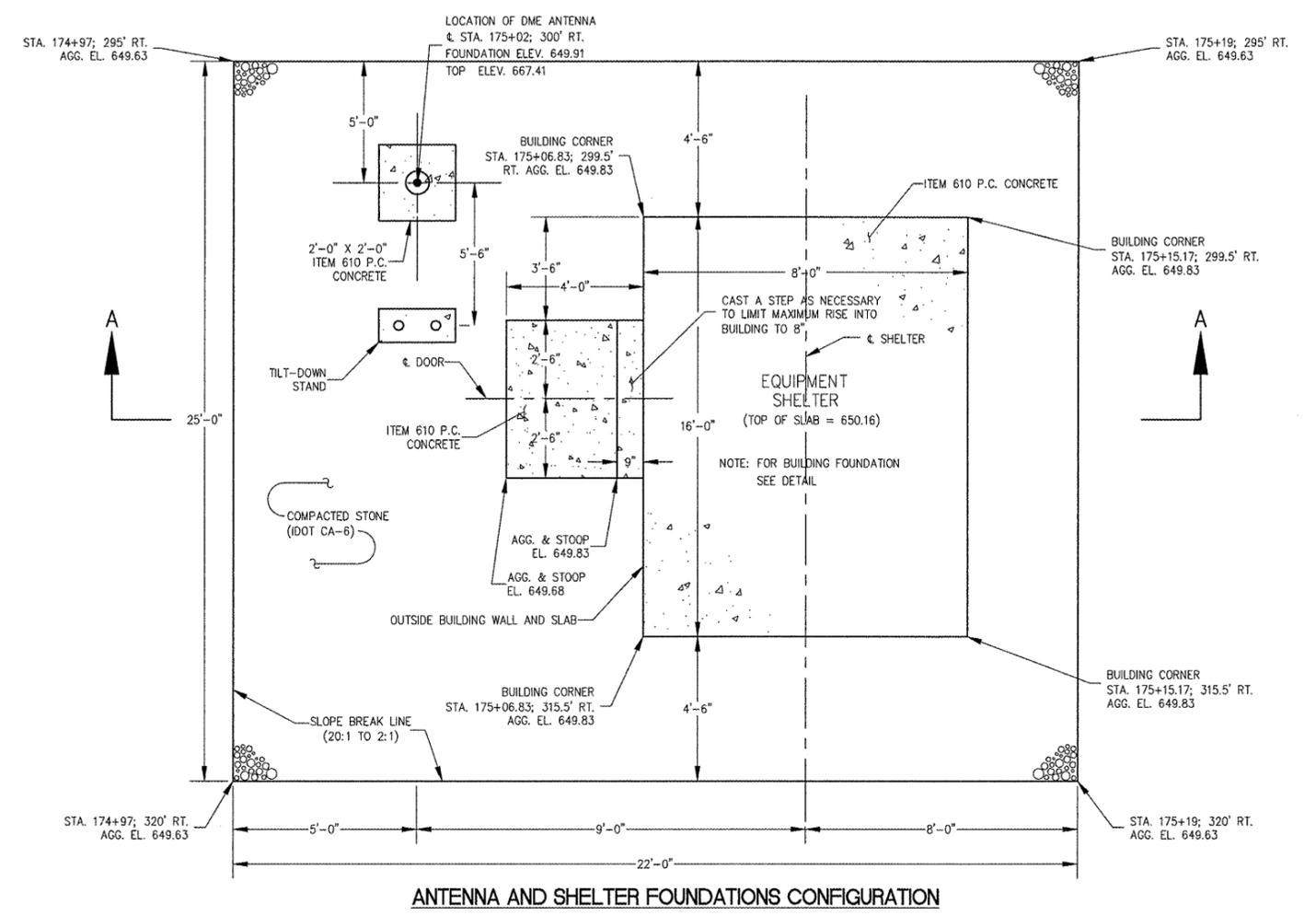
Date  
APRIL 18, 2008  
Sheet Title

LOCALIZER SHELTER SITE PLAN AND DME ANTENNA DETAIL

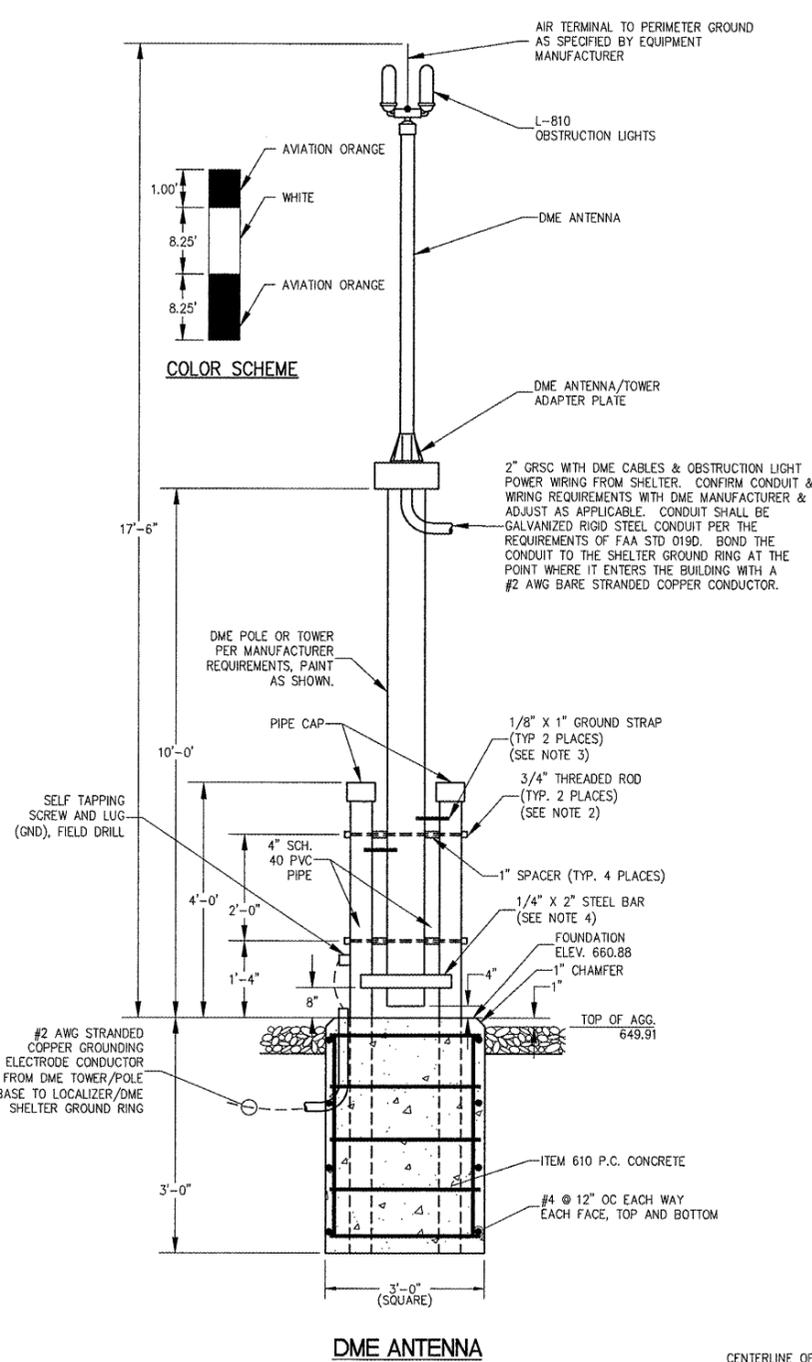
07A0166  
Project Number  
LDH 03/20/08  
Layout By Date  
LDH 03/20/08  
Designed By Date  
RMH 03/20/08  
Reviewed By Date  
RJT  
Drawn By Sheet No.

NOTES

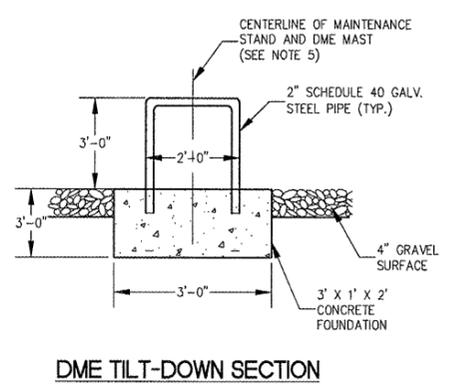
- CONTRACTOR SHALL PROVIDE CONCRETE FOUNDATIONS AND ALL CONTROL WIRING AND CABLING AND GROUNDING NECESSARY FOR A COMPLETE INSTALLATION.
- CONTRACTOR SHALL PROVIDE CABLING AND CONDUIT BETWEEN LOCALIZER AND SHELTER AS REQUIRED BY EQUIPMENT MANUFACTURER.
- GRADE CA-6 TO SLOPE AWAY FROM FOUNDATION, (MAX. SLOPE 20:1)
- WORK TO BE PAID UNDER ITEM AR127961 EXCEPT AS NOTED.
- COMPACTED STONE TO BE PAID SEPARATELY UNDER ITEM AR208606. VAPOR BARRIER TO BE PAID SEPARATELY UNDER ITEM AR800968.
- FOR SHELTER GROUNDING REQUIREMENTS SEE PROTECTION DETAILS.



DETAILS SHOWN ARE NOT TO SCALE



- NOTES
- WORK TO BE PAID UNDER ITEM AR127961.
  - THE 3/4" THREADED ROD SHALL BE STAINLESS STEEL. ALL REQUIRED HARDWARE (NUTS, WASHERS, SPACERS, ETC.) SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED.
  - INSTALL A 1/8" X 1" FLEXIBLE BRAIDED COPPER GROUND STRAP BETWEEN BOTH 4" RGS PIPES AND THE ANTENNA MAST. USE A BOLTED CONNECTION FOR THE GROUNDING STRAP. ALLOW SUFFICIENT SLACK IN THE GROUNDING STRAP FOR LOWERING THE ANTENNA MAST.
  - BOLT A 1/4" X 2" STEEL BAR TO THE 2'-4" RGS PIPE TO ENSURE MAST ASSEMBLY CANNOT TILT AWAY FROM INTENDED LOWERING POSITION.
  - INSTALL SAFETY CHAIN SO THAT IT WILL SUPPORT THE DME MAST HORIZONTAL TO THE GROUND FOR MAINTENANCE.



1:107:0251(0084)01(07A0166)DRAINAGES(SHEETS)71-SHELTER & DME PLANNING APR 18, 2008 10:20AM HANSON0262



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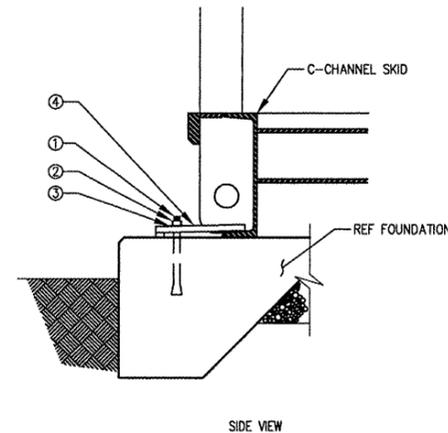
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EXTEND RUNWAY 2-20: CONSTRUCT  
TAXIWAY TURNAROUND

AIP PROJECT NO. 3-17-0140-B42  
IDA PROJECT NO. LOT-3792

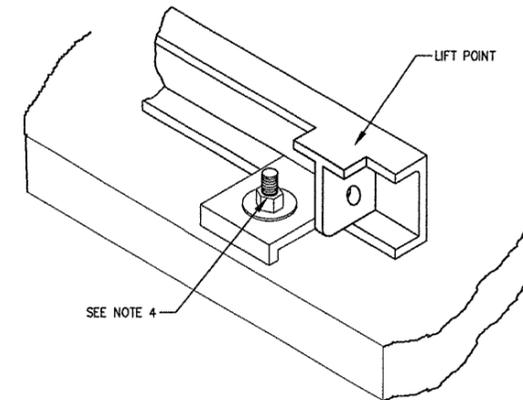
**NOTES**

1. CONCRETE TO BE ITEM 610 P.C. CONCRETE, AIR-ENTRAINED FOR FOUNDATIONS.
2. REINFORCING BARS SHALL CONFORM TO ASTM-A65 GRADE 60 IN ACCORDANCE WITH SPECIAL PROVISIONS.
3. TOPS OF CONCRETE FOUNDATION MUST BE WITHIN 0.02" PER FOOT OF ELEVATION SPECIFIED.
4. LOCATE WEDGE ANCHORS AFTER SHELTER IS LOCATED ON SLAB TO CORRECTLY ALIGN WITH INSTALLED ANCHOR PLATE. DO NOT INSTALL WEDGE ANCHOR BEFORE SETTING SHELTER ON FOUNDATION.
5. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

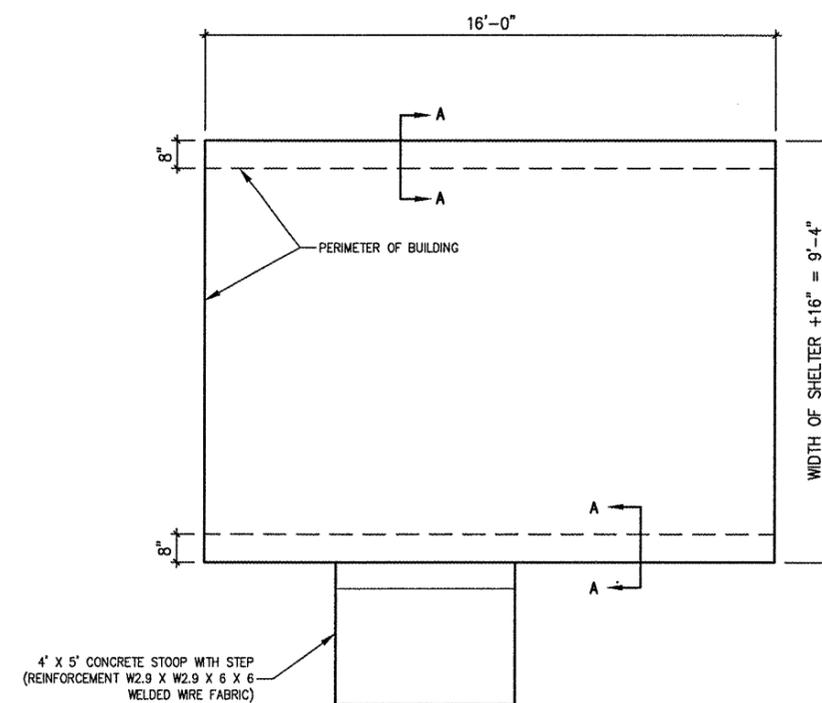


QTY.	UNIT OF MEASURE	PART NO.	DESCRIPTION	ITEM NO.
4	EA	101283-003	ANCHOR PLATE	4
4	EA	165005-009	FLAT WASHER, 3/4	3
4	EA	165032-002	HEX NUT, 3/4-10	2
4	EA	3A464	WEDGE ANCHOR, 3/4-10 x 6 1/4	1

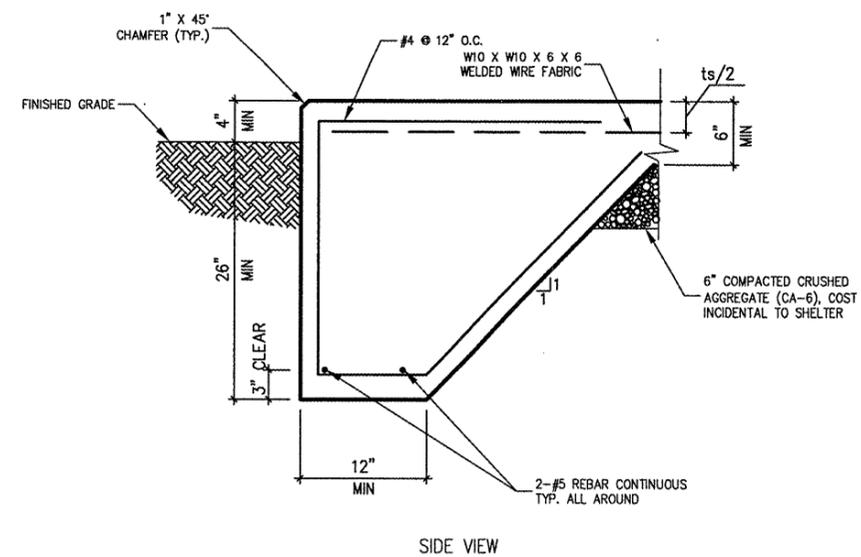
**A BUILDING ATTACHMENT**  
SECTION VIEW - SEE ALSO DETAIL D



**B TIE DOWN PLATE**  
FRONT VIEW



**C FOUNDATION PLAN**  
FOUNDATION PLAN VIEW



**D CONTINUOUS PERIMETER FOOTING**  
SECTION VIEW SECTION A-A

DETAILS SHOWN ARE NOT TO SCALE

No.	Drawing Issue Description	Date	By

Date

APRIL 18, 2008

Sheet Title

**LOCALIZER SHELTER  
FOUNDATION DETAILS**

07A0166  
Project Number  
LDH 03/20/08  
Layout By Date  
LDH 03/20/08  
Designed By Date  
RMH 03/20/08  
Reviewed By Date  
RJT |---|---  
Drawn By Sheet No.

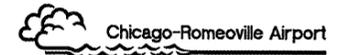


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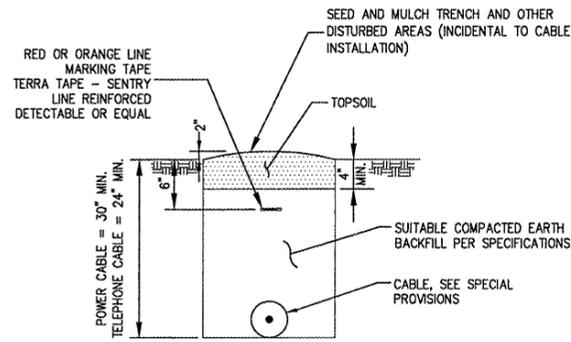


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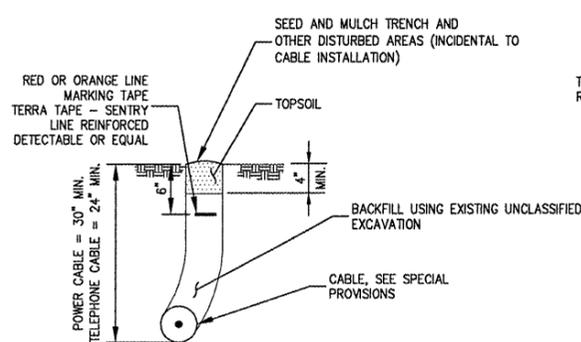
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TAXIWAY TURNAROUND

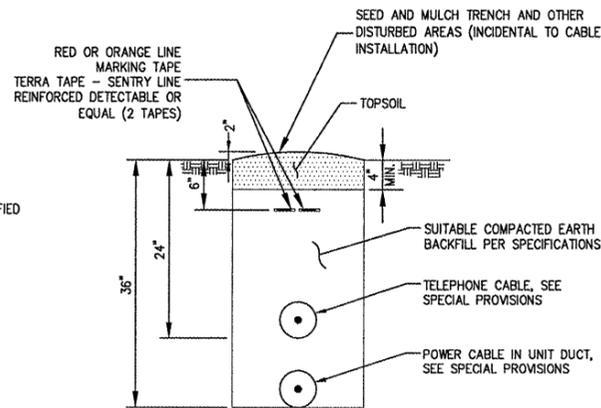
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IDA PROJECT NO. LOT-3792



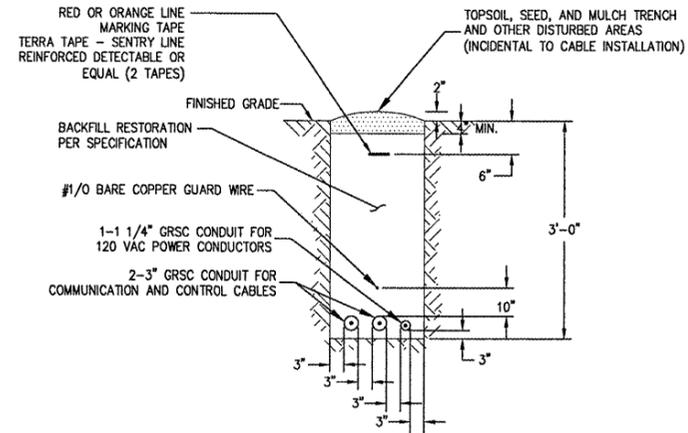
CABLE IN TRENCH



CABLE PLOWED

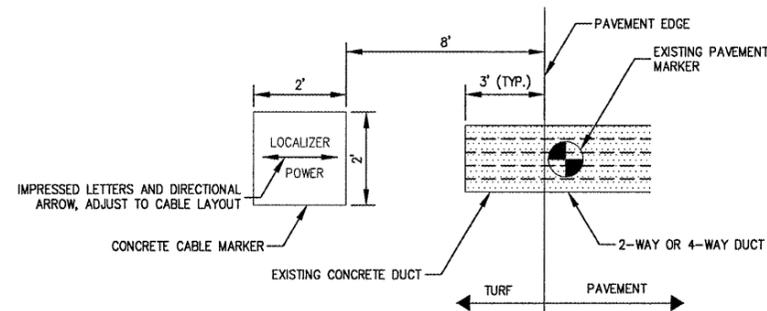


POWER AND TELEPHONE  
CABLE IN SAME TRENCH  
(OR PLOWED)



NOTE  
LOCALIZER CONTROL CABLING SHOWN IS TYPICAL. ACTUAL CONTROL CABLING SHALL BE PER EQUIPMENT MANUFACTURER'S SPECIFICATIONS.

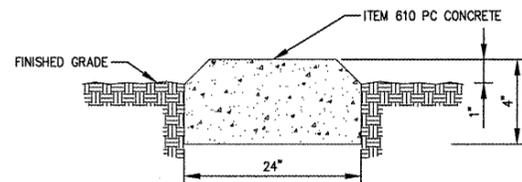
LOCALIZER POWER AND CONTROL  
CABLES TRENCH DETAIL



LOCATION PLAN

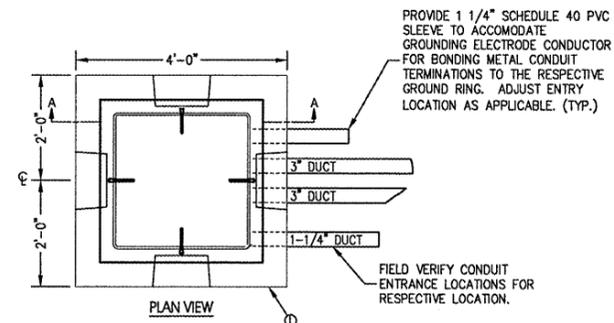
NOTES

1. ALL POWER CABLE AND CONTROL CABLE SHALL BE PROVIDED WITH TURF CABLE MARKERS.
2. THE COSTS OF ALL POWER CABLE MARKERS SHALL BE INCIDENTAL TO THE CABLE. THE COST OF LOCALIZER CONTROL CABLE MARKERS SHALL BE INCIDENTAL TO THE LOCALIZER.
3. CABLE MARKERS SHALL BE PLACED AT CHANGES OF DIRECTION AND EVERY 200' ALONG CABLE RUNS.
4. LETTERS 4" HIGH, 3" WIDE WITH WIDTH OF STROKE 1/2" AND 1/4" DEEP. ALL LETTERS, NUMBERS AND ARROWS TO BE IMPRESSED.



CONCRETE MARKER

TURF CABLE MARKERS



NOTES

1. FOR ELECTRICAL HANDHOLE REQUIREMENTS, SEE SHEET 58.

ELECTRICAL HANDHOLE PLAN FOR LOCALIZER

No.	Drawing Issue Description	Date	By

Date  
APRIL 18, 2008

Sheet Title

LOCALIZER POWER  
AND CONTROL  
CABLING DETAILS

07A0166  
Project Number  
LDH 03/20/08  
Layout By Date  
LDH 03/20/08  
Designed By Date  
RMH 03/20/08  
Reviewed By Date  
TMM  
Drawn By Sheet No.

73

DETAILS SHOWN ARE NOT TO SCALE



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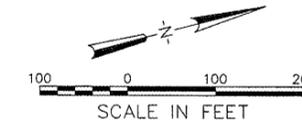
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Fax: 815.838.9524

EXTEND RUNWAY 2-20: CONSTRUCT  
TAXIWAY TURNAROUND

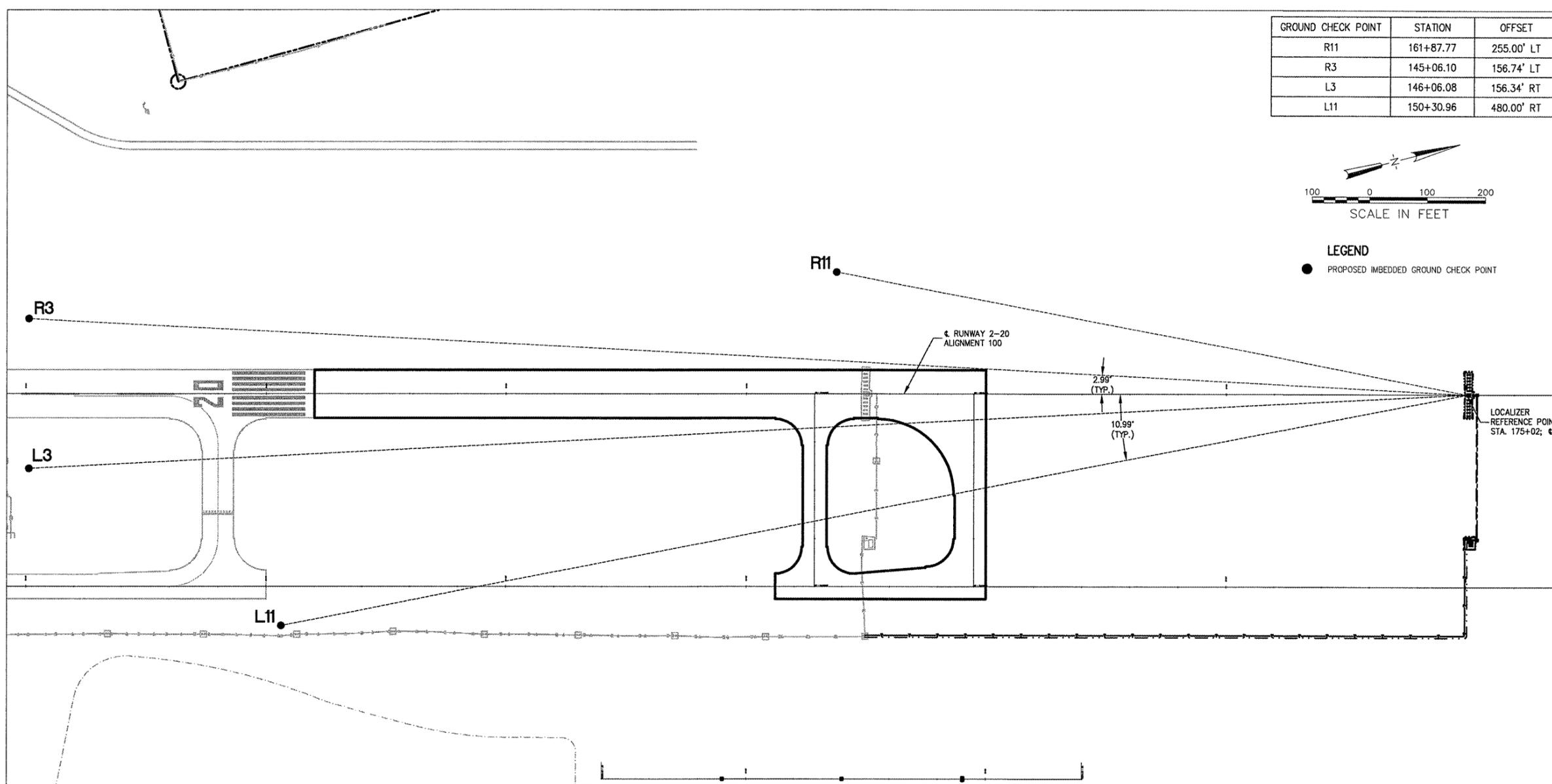
AIP PROJECT NO. 3-17-0140-B42  
IDA PROJECT NO. LOT-3792

GROUND CHECK POINT	STATION	OFFSET
R11	161+87.77	255.00' LT
R3	145+06.10	156.74' LT
L3	146+06.08	156.34' RT
L11	150+30.96	480.00' RT



LEGEND

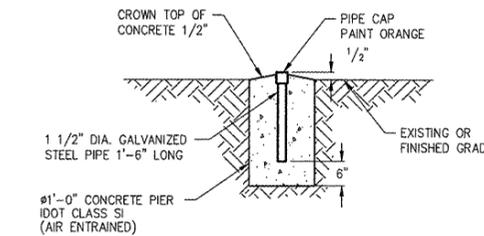
● PROPOSED IMBEDDED GROUND CHECK POINT



CHECK POINT LAYOUT

NOTES:

- COURSE WIDTH CHECK POINTS SHALL BE IMBEDDED TYPE AS PER DETAIL. INSTALL THE CHECK POINT SO IT WILL NOT CONFLICT WITH PAVED SURFACE.
- CONTRACTOR TO PROVIDE 4 IMBEDDED CHECK POINTS AS SHOWN. THREE ADDITIONAL IMBEDDED GROUND CHECK POINTS SHALL BE LOCATED AT THE LOCALIZER ANTENNA (SEE SHEET 69). COST INCIDENTAL TO LOCALIZER.



IMBEDDED GROUND CHECK POINT DETAIL

(NOT TO SCALE)

No.	Drawing Issue Description	Date	By

Date

APRIL 18, 2008

Sheet Title

LOCALIZER GROUND  
CHECK POINT PLAN  
AND DETAIL

07A0166

Project Number

LDH 03/20/08

Layout By Date

LDH 03/20/08

Designed By Date

RMH 03/20/08

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74

Sheet No.



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EXTEND RUNWAY 2-20: CONSTRUCT  
TAXIWAY TURNAROUND

AIP PROJECT NO. 3-17-0140-B42  
IDA PROJECT NO. LOT-3792

No.	Drawing Issue Description	Date	By

Date

APRIL 18, 2008

Sheet Title

RELOCATE RUNWAY 2  
LOCALIZER/DME  
ELECTRICAL ONE-LINE

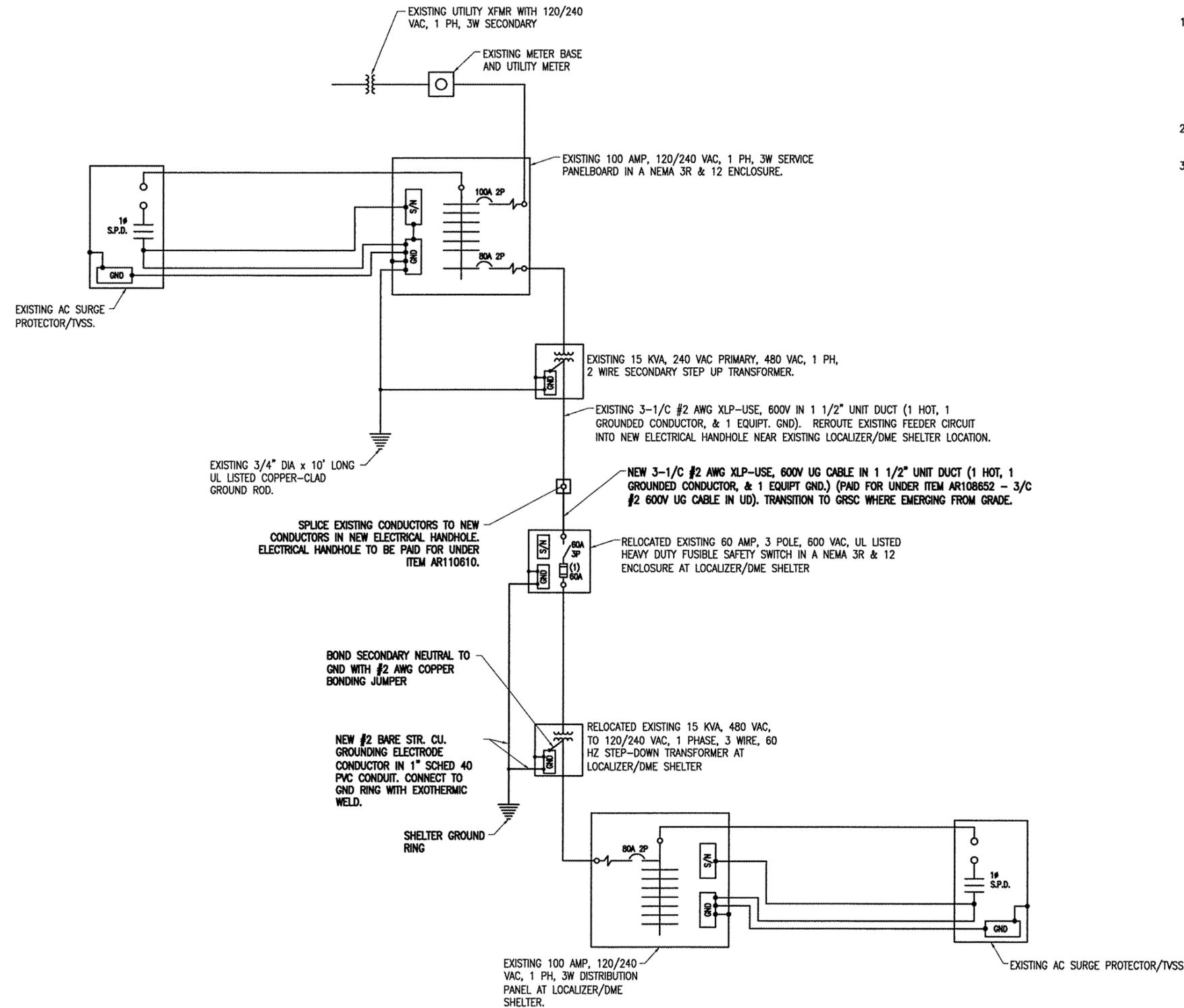
07A0166

Project Number  
KNL 03/15/08  
Layout By Date  
KNL 03/15/08  
Designed By Date  
RMH 03/20/08  
Reviewed By Date  
LDH --- | ---  
Drawn By Sheet No.

75

NOTES

- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 70 - NATIONAL ELECTRICAL CODE (NEC) MOST CURRENT ISSUE IN FORCE, THE RESPECTIVE EQUIPMENT MANUFACTURER'S DIRECTIONS AND ALL OTHER APPLICABLE LOCAL CODES, LAWS, ORDINANCES AND REQUIREMENTS IN FORCE. ANY INSTALLATIONS WHICH VOID THE U.L. LISTING, ETL LISTING, (OR OTHER THIRD PARTY LISTING) AND/OR THE MANUFACTURER'S WARRANTY OF A DEVICE WILL NOT BE PERMITTED.
- RELOCATION OF LOCALIZER, DME, & LOCALIZER/DME SHELTER WILL BE PAID FOR UNDER ITEM AR127961 RELOCATE LOCALIZER PER LUMP SUM.
- COORDINATE ALL REMOVAL AND RELOCATION WORK WITH THE AIRPORT MANAGER AND THE RESIDENT ENGINEER.

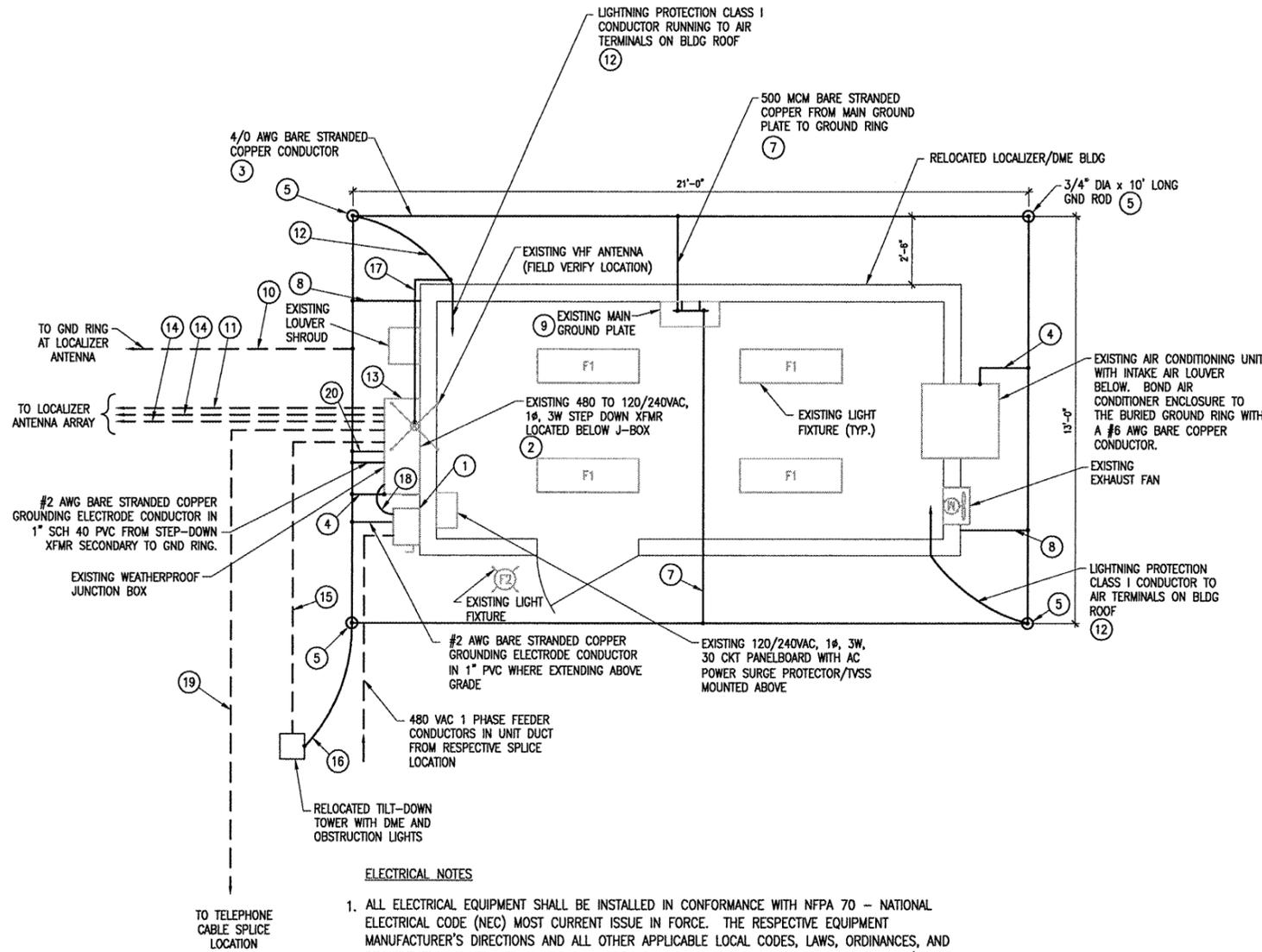


RELOCATE RWY 2 LOCALIZER/DME SHELTER  
ELECTRICAL ONE-LINE DIAGRAM

F:\07A0166\07A0166\DRAWINGS\SHEETS\75-LOCALIZER ONE-LINE.DWG APR 18, 2008 10:21AM HAUSKIND082



A: 10246851 (02846) 07A01661 (DRAWINGS) SHEETS 17-LOCALIZER BUILDING PLANDWG APR 18, 2008 10:21AM HANSON00682



**ELECTRICAL NOTES**

1. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 70 - NATIONAL ELECTRICAL CODE (NEC) MOST CURRENT ISSUE IN FORCE. THE RESPECTIVE EQUIPMENT MANUFACTURER'S DIRECTIONS AND ALL OTHER APPLICABLE LOCAL CODES, LAWS, ORDINANCES, AND REQUIREMENTS IN FORCE. ANY INSTALLATIONS WHICH VOID THE U.L. LISTING, ETL LISTING, (OR OTHER THIRD PARTY LISTING) AND/OR THE MANUFACTURER'S WARRANTY OF A DEVICE WILL NOT BE PERMITTED.
2. ALL GROUNDING AND BONDING FOR LIGHTNING PROTECTION EQUIPMENT, POWER DISTRIBUTION EQUIPMENT, AND INSTRUMENTATION SHALL BE PER F.A.A. STD-019E.
3. GRSC DENOTES GALVANIZED RIGID STEEL CONDUIT (HEAVY WALL).
4. GND RING/COUNTERPOISE AND LIGHTNING PROTECTION SHALL BE OBSERVED BY RESIDENT ENGINEER PRIOR TO BACKFILLING AND COVERING.
5. REFERENCES TO "THOMPSON" ARE THOMPSON LIGHTNING PROTECTION, INC., 901 SIBLEY HIGHWAY, ST. PAUL, MN. 55118-1792, PHONE: 1-800-777-1230 OR 612-455-7661.
6. 15 AMP & 20 AMP BRANCH CIRCUITS AT THE SHELTER SHALL BE WITH #12 THWN CONDUCTORS. CONDUITS FOR POWER, SIGNAL, AND/OR CONTROL CIRCUITS SHALL BE GRSC, IMC, OR EMT AT THE SHELTER INTERIOR AND GRSC FOR ALL EXTERIOR CIRCUITS.



**RUNWAY 2 LOCALIZER/DME BUILDING ELECTRICAL PLAN**

NOT TO SCALE

**NUMBERED LEGEND**

- 1 EXISTING HEAVY DUTY 60 AMP, 600 VAC, 3 POLE WITH S/N & GND FUSIBLE SAFETY SWITCH MAIN DISCONNECT IN A NEMA 3R & 12 ENCLOSURE.
- 2 EXISTING 15 KVA, 480 VAC TO 120/240 VAC, 1 PH, 3W STEP DOWN TRANSFORMER, LOCATED BELOW J-BOX.
- 3 4/0 AWG BARE STRANDED COPPER GROUNDING ELECTRODE CONDUCTOR FOR BUILDING GROUND RING, MIN. BURY 42" BELOW FINISHED GRADE. ALL CONNECTIONS TO GROUND RING SHALL BE EXOTHERMIC WELD.
- 4 #6 OR #2 BARE SOLID COPPER GROUNDING ELECTRODE CONDUCTOR (SECONDARY CONDUCTOR) THOMPSON NO 14X OR NO. 32M FROM RESPECTIVE DEVICE TO 4/0 AWG GROUND RING. CONNECTIONS TO RESPECTIVE EQUIPMENT SHALL BE WITH UL LISTED GROUNDING COMPRESSION TERMINALS SUITABLE FOR THE RESPECTIVE APPLICATION, BURNDY YGA6C-2TC3BE2G1 (FOR #6 SOLID) OR YGA2C-2TC38 (FOR #2 SOLID) OR EQUAL. CONNECTIONS TO THE GROUND RING SHALL BE EXOTHERMIC WELD.
- 5 3/4" DIA x 10' LONG U.L. LISTED COPPER CLAD GROUND ROD WITH 10 MIL MIN. COPPER COATING. BURY GND RODS 30" BELOW FINISHED GRADE. CONNECTIONS TO GND RODS SHALL BE EXOTHERMIC WELD (TYP.). GND RODS SHALL BE SPACED 13' TO 21' APART AS SHOWN AND MINIMUM 2'-6" OUT FROM THE BUILDING.
- 6 #2 AWG BARE STRANDED COPPER CONDUCTOR FROM RESPECTIVE BURIED GRSC TERMINATION TO THE 4/0 AWG BURIED GROUND RING. CONNECTIONS TO THE GND RING SHALL BE EXOTHERMIC WELD. CONNECTIONS TO THE CONDUIT SHALL BE WITH U.L. LISTED GROUNDING CLAMPS SUITABLE FOR DIRECT BURIAL. NOTE WHERE GRSC TERMINATES IN A HANDHOLE PROVIDE GROUND BUSHINGS AT CONDUIT TERMINATIONS WITH #2 GND FROM BUSHINGS TO GND RING.
- 7 500 MCM BARE STRANDED COPPER CONDUCTOR IN 1 1/2" SCHED 40 PVC FROM MAIN GROUND PLATE TO THE 4/0 AWG BURIED GROUND RING. CONNECTIONS TO THE GND RING SHALL BE EXOTHERMIC WELD. CONNECTIONS TO THE MAIN GROUND PLATE SHALL BE WITH 2 HOLE TONGUE, COMPRESSION LUGS BOLTED TO THE GROUND PLATE. NOTE GND PLATE SHALL HAVE 2 CONNECTIONS TO THE GND RING, EACH AT OPPOSITE SIDES OF THE BUILDING.
- 8 BARE 4/0 AWG STRANDED COPPER FROM THE BUILDING STEEL FRAMEWORK TO THE 4/0 GND RING. ALL CONNECTIONS SHALL BE EXOTHERMIC WELD.
- 9 EXISTING MAIN GROUND PLATE, 6" x 8" x 3/8" COPPER BUS WITH A CLEAR PLEXIGLASS COVER OR FIBERGLASS ENCLOSURE WITH WINDOW TYPE COVER. SEE NUMBER 7.
- 10 #1/0 BARE SOLID COPPER CONDUCTOR (GUARD WIRE) FROM 4/0 GROUND RING AT LOCALIZER BUILDING TO GROUND RING AT LOCALIZER ANTENNA. ROUTE #1/0 GND ABOVE THE OBSTRUCTION LIGHTS CIRCUIT CONDUCTORS AND LOCALIZER CONTROL CABLES PER FAA-STD-019e PARAGRAPH 4.2.1.5.
- 11 3-1/C #10 USE IN 1 1/4" GRSC TO OBSTRUCTION LIGHTS AT LOCALIZER ANTENNA. PROVIDE 1 1/4" GRSC FROM JUNCTION BOX TO 5 FEET MIN. BEYOND LOCALIZER BUILDING BURIED GROUND RING. CONDUIT SHALL BE SCHED 40 PVC THEREAFTER UP TO WITHIN 5' OF THE LOCALIZER ANTENNA GROUND RING WHERE IT SHALL TRANSITION TO GRSC.
- 12 AIR TERMINAL & CLASS I CONDUCTOR FOR LIGHTNING PROTECTION. SEE "LIGHTNING PROTECTION SYSTEM DETAIL" FOR REQUIREMENTS.
- 13 JUNCTION BOX FOR LOCALIZER/DME. INSTALL CABLES PER LOCALIZER/DME MFR'S INSTRUCTIONS. GROUNDING SHALL BE PER LOCALIZER MFR RECOMMENDATIONS & FAA-STD-19e. 480 VAC TO 120/240 VAC STEP-DOWN TRANSFORMER IS LOCATED BELOW J-BOX.
- 14 LOCALIZER SYSTEM CONTROL WIRING AND CONDUIT PER THE RESPECTIVE LOCALIZER MFR. CONDUIT SHALL BE 3" GRSC TO 5' MIN BEYOND THE LOCALIZER BLDG BURIED GND RING. CONDUIT SHALL BE SCHED 40 PVC THEREAFTER UP TO WITHIN 5' OF THE LOCALIZER ANTENNA GROUND RING WHERE IT SHALL TRANSITION TO GRSC. INSTALLATION OF CONTROL WIRING AND CONDUIT SHALL CONFORM TO FAA-STD-19e.
- 15 DME POWER & CONTROL WIRING IN 2" GRSC. CONFIRM WIRING REQUIREMENTS WITH DME MFR.
- 16 #2 BARE STRANDED COPPER FROM DME TOWER TO THE GND RING. CONNECTION TO GND RING SHALL BE EXOTHERMIC WELD. CONNECTION TO TOWER SHALL BE PER MFR RECOMMENDATIONS. CONFIRM GROUNDING REQUIREMENTS WITH DME MFR.
- 17 THOMPSON NO. 32 CLASS I CONDUCTOR. BOND VHF ANTENNA SUPPORT POST TO LIGHTNING PROTECTION DOWN CONDUCTOR. SEE "LIGHTNING PROTECTION SYSTEM DETAIL" FOR REQUIREMENTS.
- 18 480 VAC FEEDER CIRCUIT CONDUCTORS IN LIQUID TIGHT FLEXIBLE METAL CONDUIT TO 480 VAC TO 120/240 VAC STEP-DOWN TRANSFORMER LOCATED BELOW J-BOX.
- 19 1" GRSC FOR TELEPHONE SERVICE. EXTEND CONDUIT 5' MIN. BEYOND LOCALIZER/DME BLDG GND RING.
- 20 GROUNDING ELECTRODE CONDUCTORS SIZE & QTY PER LOCALIZER/DME MFR RECOMMENDATIONS IN 2" SCH 40 PVC. BOND ONE OF THE GROUNDING ELECTRODE CONDUCTORS TO CONDUIT GROUNDING BUSHINGS AT INTERIOR OF JUNCTION BOX. CONFIRM GROUNDING REQUIREMENTS WITH LOCALIZER/DME MFR.

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EXTEND RUNWAY 2-20; CONSTRUCT  
TAXIWAY TURNAROUND

AIP PROJECT NO. 3-17-0140-B42  
IDA PROJECT NO. LOT-3792

No.	Drawing Issue Description	Date	By

Date  
APRIL 18, 2008  
Sheet Title

**RUNWAY 2  
LOCALIZER/DME  
BUILDING PLAN**

07A0166  
Project Number  
KNL 11/26/03  
Layout By Date  
KNL 11/26/03  
Designed By Date  
RMH 03/20/08  
Reviewed By Date  
MV  
Drawn By Sheet No.

77



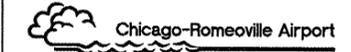


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EXTEND RUNWAY 2-20: CONSTRUCT  
TAXIWAY TURNAROUND

AIP PROJECT NO. 3-17-0140-B42  
IDA PROJECT NO. LOT-3792

No.	Drawing Issue Description	Date	By

Date

APRIL 18, 2008

Sheet Title

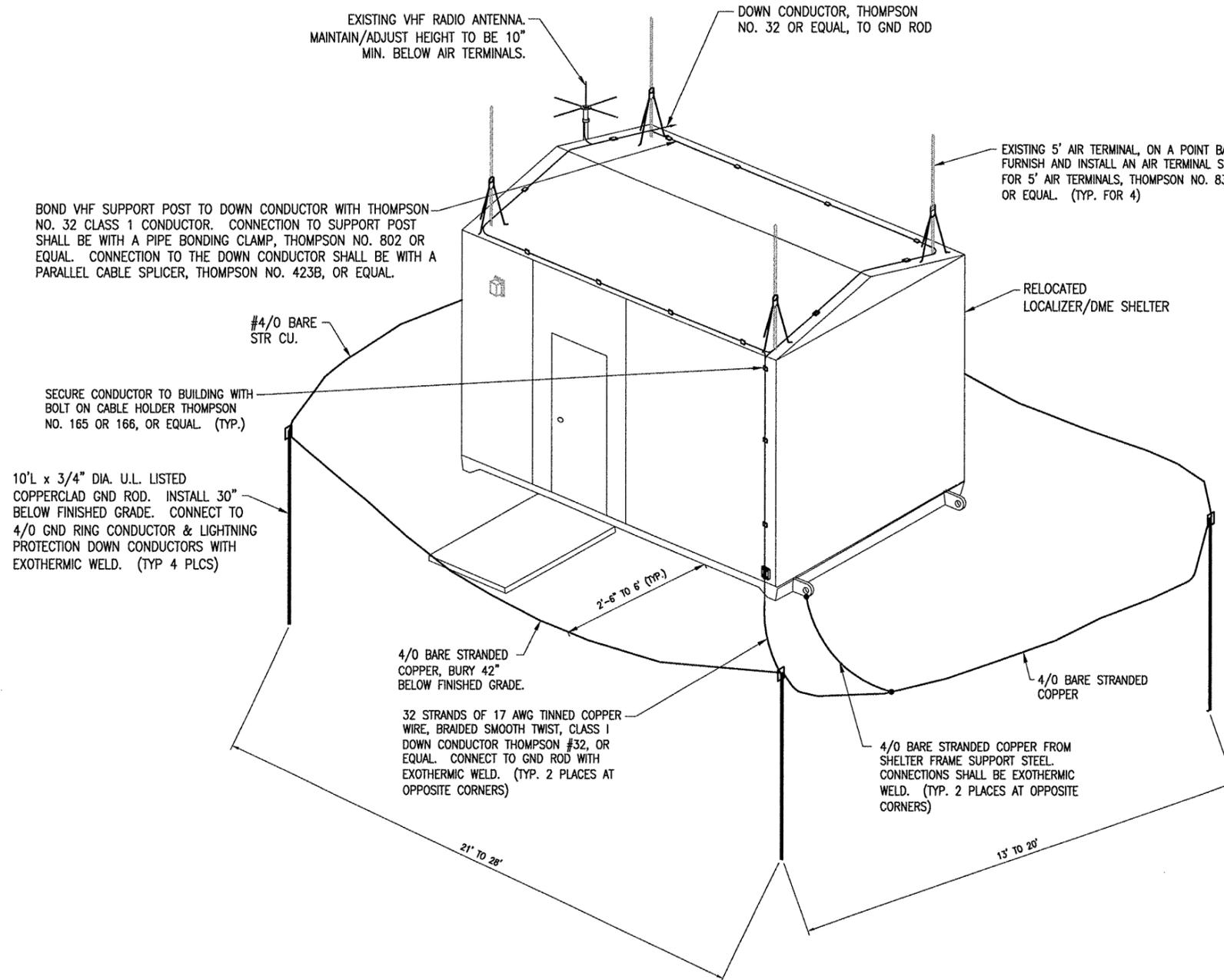
**RUNWAY 2  
LOCALIZER/DME  
SHELTER LIGHTNING  
PROTECTION DETAILS**

07A0166  
Project Number  
KNL 11/26/03  
Layout By Date  
KNL 11/26/03  
Designed By Date  
RMH 03/20/08  
Reviewed By Date  
MV  
Drawn By Sheet No.

79

NOTES

1. LIGHTNING PROTECTION SHALL BE INSTALLED IN COMPLIANCE WITH THE LATEST EDITION OF STANDARD FOR THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS NFPA 780, AND FAA-STD 019e, DECEMBER 22, 2005 "LIGHTNING AND SURGE PROTECTION PROTECTION, GROUNDING, BONDING AND SHIELDING REQUIREMENTS FOR FACILITIES AND ELECTRONIC EQUIPMENT". CONTRACTOR SHALL CONFIRM ALL EQUIPMENT PART NUMBERS WITH THE RESPECTIVE LIGHTNING PROTECTION SYSTEM MANUFACTURER/SUPPLIER AND SHALL CONFIRM EQUIPMENT IS SUITABLE FOR THE RESPECTIVE APPLICATION.
2. CLEAN BONDING SURFACES UNDER CLAMPS AND BRACKETS TO BARE METAL, SECURE HARDWARE AND WATERPROOF WITH SILICONE SEALING COMPOUND. ALL MOUNTING BOLTS TO THE SHELTER SHALL BE STAINLESS STEEL & SEALED WITH SILICONE SEALING/CAULKING COMPOUND. CONFIRM TYPE OF RECOMMENDED SEALING COMPOUND WITH THE BLDG MFR, REIFF MFG, PHONE: 509-525-1081.
3. ALL DOWN LEADS SHALL BE PROTECTED WITH SCHEDULE 40 PVC MINIMUM WHERE APPLICABLE.
4. AIR TERMINALS MUST EXTEND 10" MIN. ABOVE VHF COMM ANTENNA.
5. MINIMUM SPACING BETWEEN GROUND RODS SHALL BE 12'.
6. ALL BELOW GROUND CONNECTIONS SHALL BE EXOTHERMICALLY WELDED TYPE CONNECTIONS, CADWELD OR THERMOWELD. CONFIRM PROPER MOLDS ARE PROVIDED FOR THE RESPECTIVE CONDUCTORS AND APPLICATIONS.
7. SEE ELEVATION VIEWS FOR SECONDARY BONDING OF EXTERIOR MOUNTED EQUIPMENT TO THE LIGHTNING PROTECTION SYSTEM.
8. REFERENCES TO "THOMPSON" ARE THOMPSON LIGHTNING PROTECTION, INC., 901 SIBLEY HIGHWAY, ST. PAUL, MINNESOTA 55118-1792, PHONE 1-800-777-1230 OR 612-455-7661.
9. LIGHTNING ROD/AIR TERMINALS SHALL BE MOUNTED TO BE VERTICAL. ADJUST BASES WHERE APPLICABLE TO MOUNT AIR TERMINALS VERTICAL. EXISTING LIGHTNING RODS/AIR TERMINALS ON SHELTER ARE MISSING THE AIR TERMINAL SUPPORTS. PROVIDE AN AIR TERMINAL SUPPORT FOR 5' AIR TERMINALS, THOMPSON NO. 83-5, OR EQUAL FOR EACH AIR TERMINAL.



**RUNWAY 2 LOCALIZER/DME SHELTER LIGHTNING PROTECTION SYSTEM DETAIL**

NOT TO SCALE

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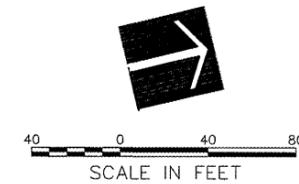
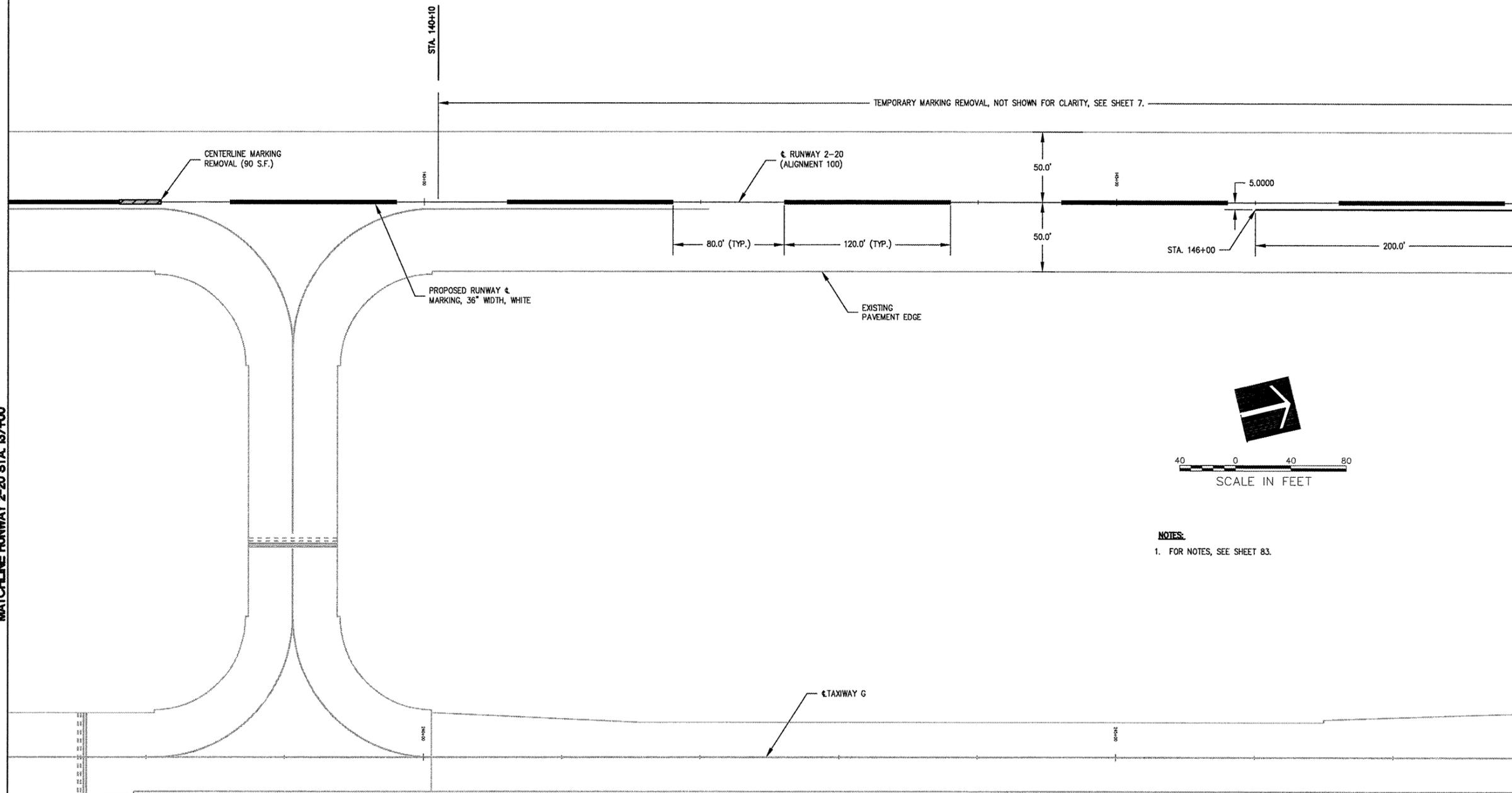






I:\07JOBS\0804\07A0166 DRAWINGS\84-MARKING\84-MARKING PLAN.DWG APR 18, 2008 10:21AM HAUSKODSZ

MATCHLINE RUNWAY 2-20 STA. 137+00



**NOTES:**  
1. FOR NOTES, SEE SHEET 83.

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EXTEND RUNWAY 2-20; CONSTRUCT  
TAXIWAY TURNAROUND

AIP PROJECT NO. 3-17-0140-B42  
IDA PROJECT NO. LOT-3792

MATCHLINE RUNWAY 2-20 STA. 148+00

No.	Drawing Issue Description	Date	By

Date  
APRIL 18, 2008

Sheet Title  
**MARKING PLAN  
RUNWAY 2-20  
STA. 137+00 THRU  
STA. 148+00**

07A0166  
Project Number  
LDH 02/22/08  
Layout By Date  
LDH 02/22/08  
Designed By Date  
RMH 03/20/08  
Reviewed By Date  
LDH --- | ---  
Drawn By Sheet No.

**84**



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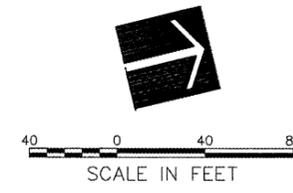
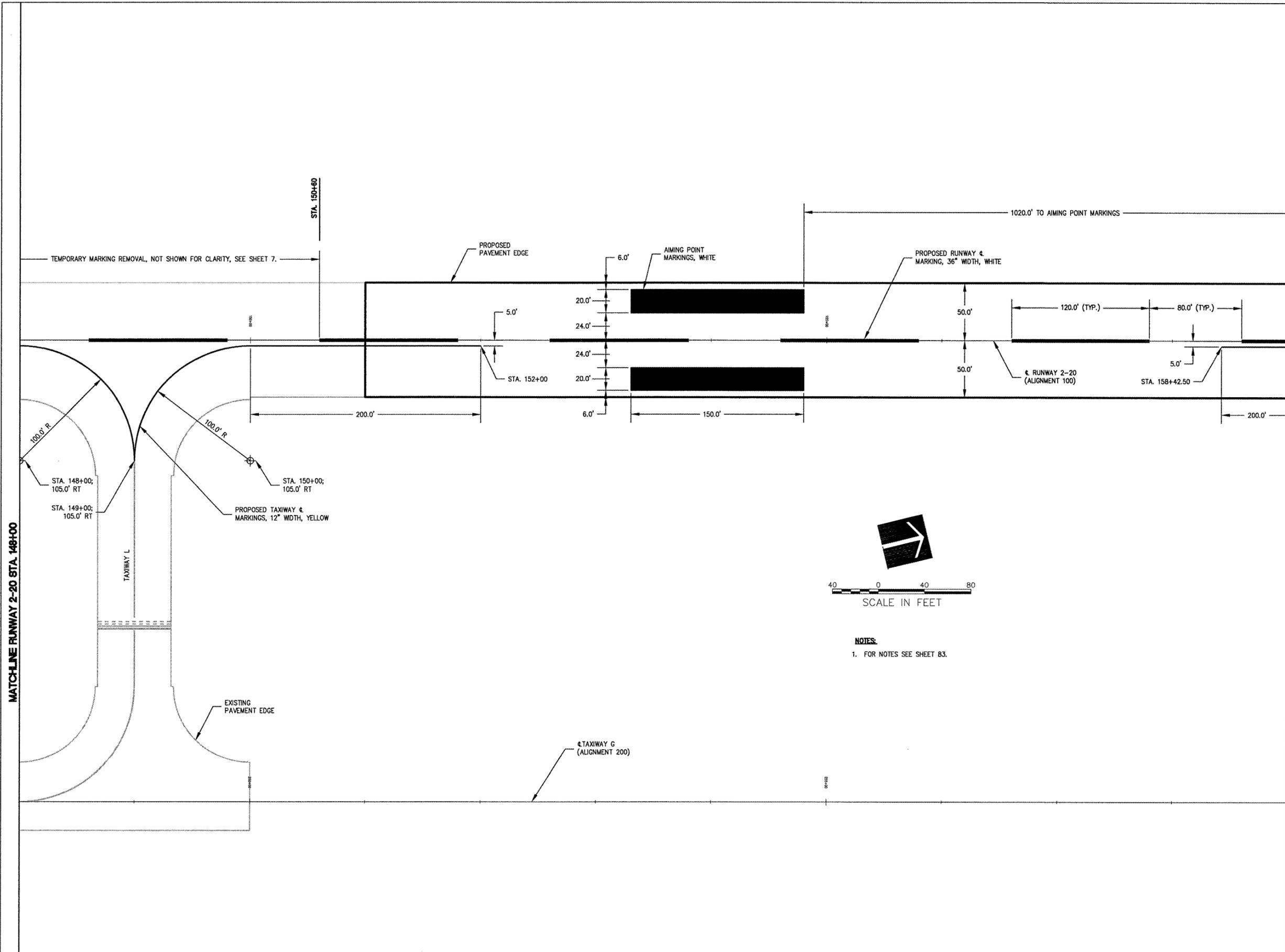


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EXTEND RUNWAY 2-20; CONSTRUCT  
TAXIWAY TURNAROUND

AIP PROJECT NO. 3-17-0140-B42  
IDA PROJECT NO. LOT-3792



**NOTES:**  
1. FOR NOTES SEE SHEET 83.

MATCHLINE RUNWAY 2-20 STA. 148+00

MATCHLINE RUNWAY 2-20 STA. 159+00

I:\07A0166\DRAWINGS\SHEETS\85-MARKING PLAN.DWG APR 18, 2008 10:22AM HANSON0682

No.	Drawing Issue Description	Date	By

Date  
APRIL 18, 2008  
Sheet Title

**MARKING PLAN  
RUNWAY 2-20  
STA. 148+00 THRU  
STA. 159+00**

07A0166  
Project Number  
LDH 02/22/08  
Layout By Date  
LDH 02/22/08  
Designed By Date  
RMH 03/20/08  
Reviewed By Date  
LDH  
Drawn By Sheet No.





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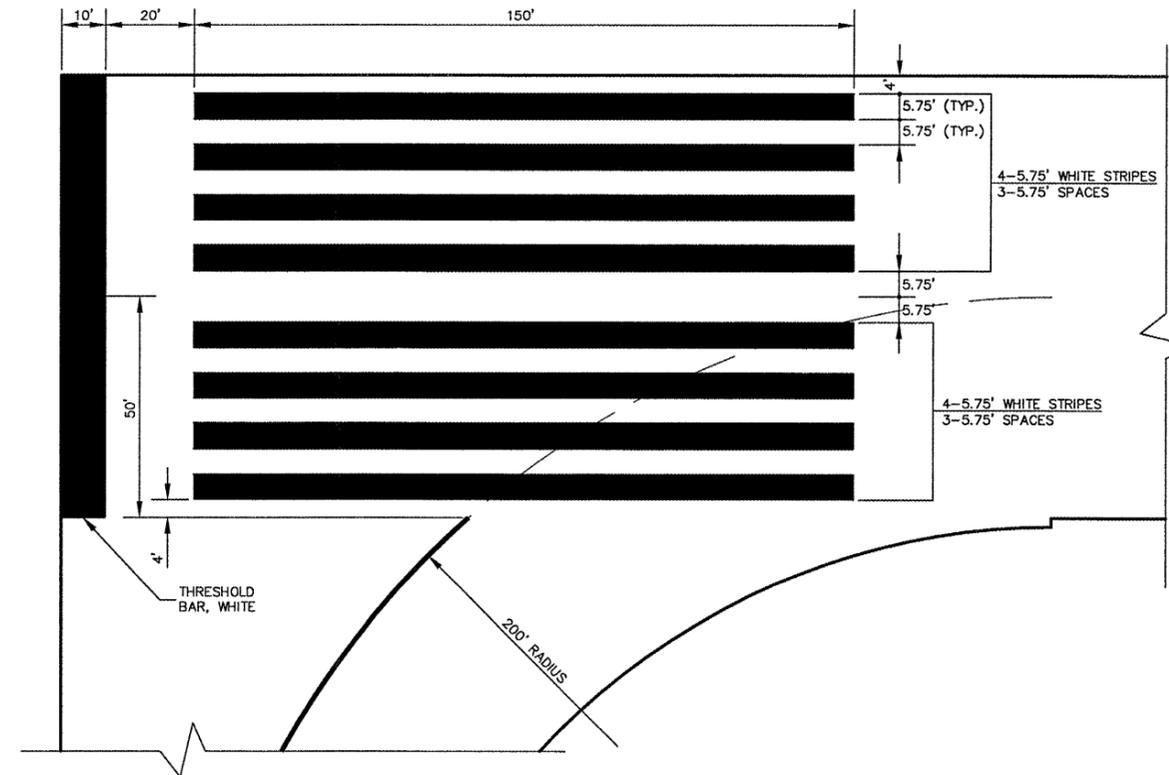


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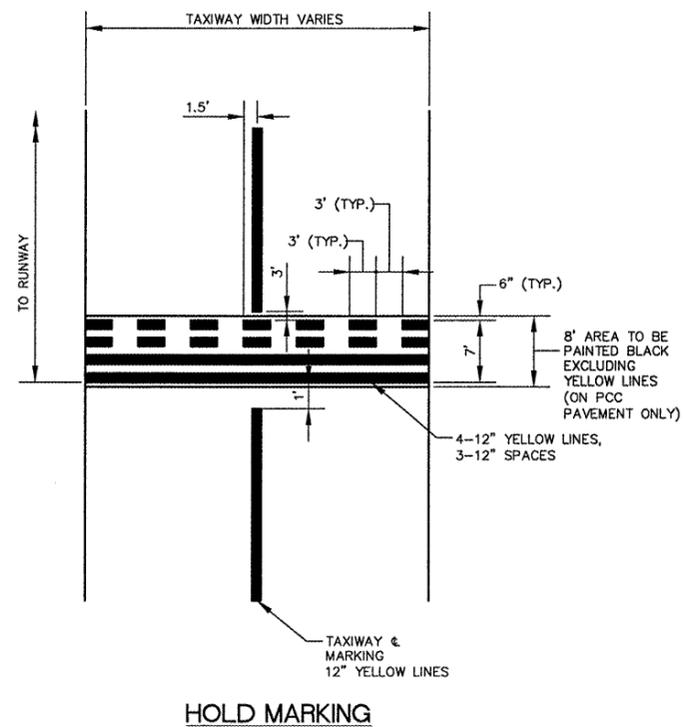
1 George Michas Drive  
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EXTEND RUNWAY 2-20: CONSTRUCT  
TAXIWAY TURNAROUND

AIP PROJECT NO. 3-17-0140-B42  
IDA PROJECT NO. LOT-3792



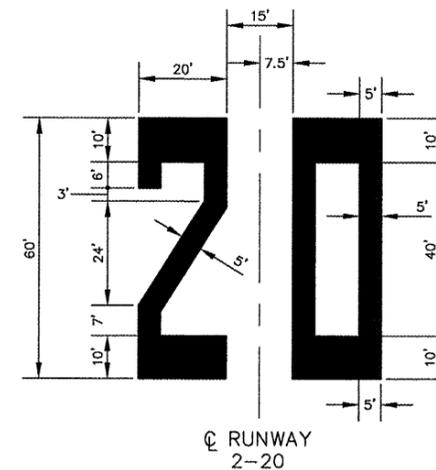
RUNWAY 20 THRESHOLD MARKERS



HOLD MARKING

**NOTE:**

1. ALL MARKINGS ON PCC PAVEMENT TO HAVE A 6" BLACK OUTLINING



☉ RUNWAY  
2-20

**NOTE:**

1. ALL NUMERALS TO BE WHITE.
2. ALL MARKINGS ON PCC PAVEMENT TO HAVE A 6" BLACK OUTLINING

RUNWAY DESIGNATION MARKINGS

DETAILS SHOWN ARE NOT TO SCALE

No.	Change Issue Description	Date	By
2	CHANGE 1	10/03/03	RJT
1	ADDITIONAL GRADES	03/07/03	TMM

Date

APRIL 18, 2008

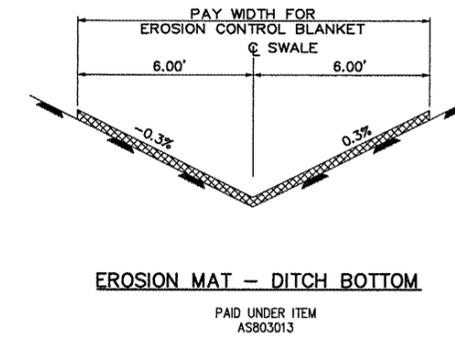
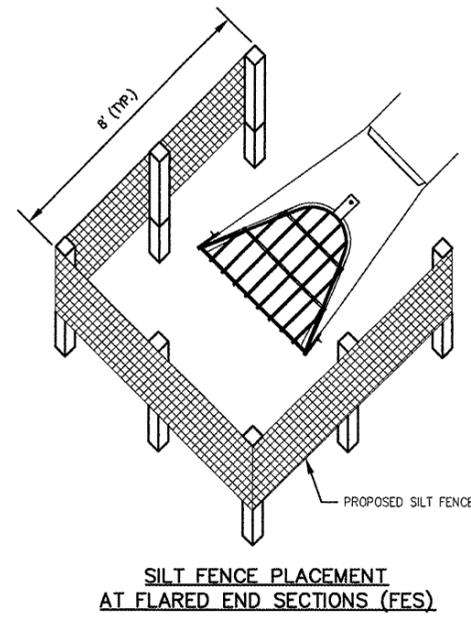
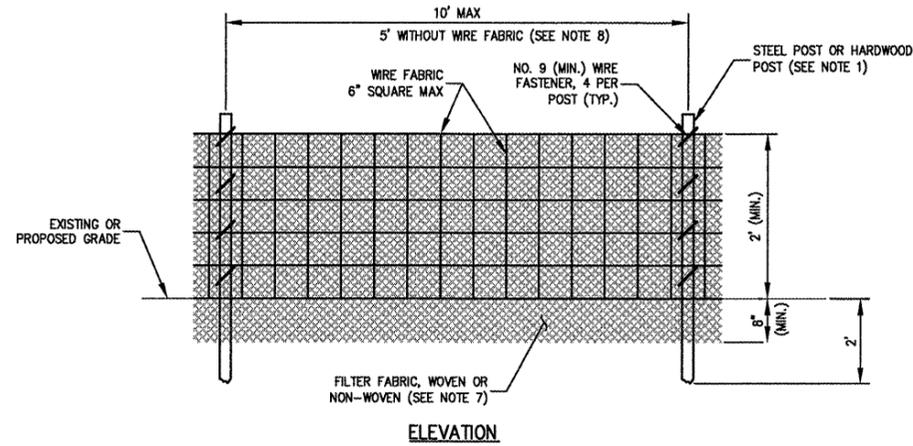
Sheet Title

PAVEMENT MARKING  
DETAILS

07A0166  
Project Number  
LDH 03/03/08  
Layout By Date  
LDH 03/03/08  
Designed By Date  
RMH 03/20/08  
Reviewed By Date  
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Drawn By Sheet No.

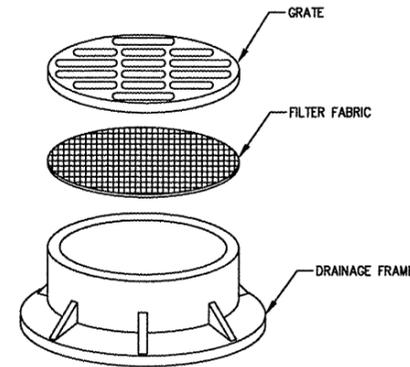
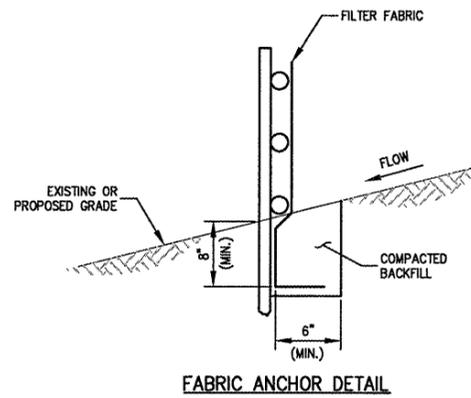
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**NOTES:**

1. FENCE POST SHALL BE EITHER STEEL "1" LINE POST OR HARDWOOD POST WITH A MINIMUM SECTIONAL AREA OF 3.0 SQUARE INCHES.
2. TOP AND BOTTOM WIRE OF WIRE FABRIC SHALL BE MINIMUM GAGE NO. 9. INTERMEDIATE WIRES OF THE WIRE FABRIC SHALL BE MINIMUM GAGE NO. 11.
3. WIRE FABRIC SHALL BE SECURELY FASTENED TO FENCE POSTS WITH NO. 9 GAGE WIRE MINIMUM. FOUR (4) FASTENERS PER POST REQUIRED.
4. FILTER FABRIC SHALL BE SECURELY FASTENED TO WIRE FABRIC AND POSTS WITH TIES OR STAPLES SPACED AT 12" APART AT THE TOP, MIDDLE AND BOTTOM.
5. WHEN TWO SECTIONS OF FILTER FABRIC MEET, THEY SHALL BE OVERLAPPED BY 6" AND FOLDED AND ATTACHED TO THE WIRE FABRIC AT A POST.
6. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED AND REPLACED WHEN BULGES DEVELOP IN THE SILT FENCE.
7. FILTER FABRIC SHALL BE IN ACCORDANCE WITH SPECIAL PROVISIONS WITH EQUIVALENT OPENING SIZE OF AT LEAST 30 FOR NONWOVEN AND 50 FOR WOVEN.
8. WIRE FABRIC MAY BE OMITTED IF A MAXIMUM OF 5 FEET IS USED FOR POST-TO-POST SPACING.
9. SILT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED. PERIODIC INSPECTION SHALL BE PERFORMED AND REQUIRED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN EVENT.
10. FENCE POSTS SHALL BE REMOVED WHEN DIRECTED AT PROJECT END.



**NOTES:**

1. FILTER WRAP TO BE PLACED IN ALL MANHOLES AS SHOWN.
2. FABRIC SHALL BE IN CONFORMANCE WITH MATERIALS SPECIFIED FOR SILT FENCE.
3. FABRIC SHALL OVERLAY FRAME BY 2 INCHES (MINIMUM).
4. CONTRACTOR SHALL CLEAR DEBRIS AND SILT AS REQUIRED FROM FABRIC TO MAINTAIN DRAINAGE THROUGH THE STRUCTURE.
5. FABRIC SHALL REMAIN IN PLACE UNTIL TURFED AREAS HAVE DEVELOPED A MINIMUM OF 80% OF COVERAGE.
6. COST OF FILTER WRAP SHALL BE INCIDENTAL TO INLET PROTECTION.

INLET PROTECTION - DRAINAGE STRUCTURE FILTER WRAP

DETAILS SHOWN ARE NOT TO SCALE

No.	Drawing Issue Description	Date	By

Date  
APRIL 18, 2008  
Sheet Title

STORM WATER POLLUTION  
PREVENTION PLAN DETAILS

07A0166  
Project Number  
LDH 02/27/08  
Layout By Date  
LDH 03/07/08  
Designed By Date  
RMH 03/20/08  
Reviewed By Date  
LDH | SJM | ---  
Drawn By Sheet No.

